Appendix H

Hydrology Report

GHALBI & ASSOCIATES, INC
CONSULTING CIVIL ENGINEERS
SURVEY | ENTITLEMENT | ENGINEERING | CONST. SUPPORT.

23342 S. POINTE DR. STE. K,
LAGUNA HILLS, CA 92653
(C) 949.813.8400
(O) 949.679.0062
WWW.GHALBI.COM

PRELIMINARY HYDROLOGY REPORT

For

Commercial/Retail Development

Menifee, California – APN: 364-030-016

Prepared For:

Golden Star Investment
4040 MacArthur Blvd., Suite 309
Newport Beach, CA 92660
Phone: 949-679-7733 Ext. 202

Prepared By:

G&A Consulting Civil Engineers, Inc.
23342 South Pointe Drive, Suite K
Laguna Hills, CA 92653
Phone: 949-679-0062
WWW.GHALBI.COM

Date: 1-26-2025

TABLE OF CONTENTS

I. INTRODUCTION…… 1
A. PROJECT DESCRIPTION…….…….... 1
B. PURPOSE OF DRAINAGE STUDY…… 1
C. PROJECT OBJECTIVES……..…….. 1
II. HYDROLOGY…….. 1
A. GENERAL GUIDELINES……..…….. 1
B. RATIONAL METHOD HYDROLOGY CALCULATION…….. 2
B. UNIT HYDRAGPH METHOD HYDROLOGY CALCULATION…….. 3
B. FLOOD ROUTING CALCULATION……... 3
C. FLOOD ASSESMENT…….…….. 3
III. SUMMARY OF RESULTS…… 4

APPENDICES

APPENDIX A RAINFALL DATA
HYDROLOGIC SOILS GROUP MAP
FIRM MAP

APPENDIX B DEVELOPED CONDITION HYDROLOGY MAP
EXISTING CONDITION HYDROLOGY MAP

APPENDIX C RATIONAL METHOD CALCULATIONS
EXISTING CONDITION HYDROLOGY
DEVELOPED CONDITION HYDROLOGY

APPENDIX D UNIT HYDROGRAPH CALCULATIONS
EXISTING CONDITION HYDROLOGY
DEVELOPED CONDITION HYDROLOGY

APPENDIX E FLOOD ROUTING CALCULATIONS

I. INTRODUCTION

A. PROJECT DESCRIPTION

This report contains the preliminary hydrology calculations for the proposed commercial/retail development in the City of Menifee. The project site is located near the southwest corner of Newport Road and Menifee Road intersection in the City of Menifee, County of Riverside California. The property is bounded by existing single-family homes to the south and west, an existing commercial development to the east, and Newport Road to the north. As shown on the attached "Location Map, Figure A".

The proposed 5.6-acre development will construct 2 commercial/retail buildings, patio areas, a drive thru, parking areas with drive isles as well as planter areas which some will be utilized for bioretention basins for treatment of stormwater.

B. PURPOSE OF DRAINAGE STUDY

The purpose of this report is to compute runoff (Q) of the existing and developed condition and asses impacts to downstream facilities.

C. PROJECT OBJECTIVES

The following objectives will be addressed in this drainage study:

- A description of the physical setting of the project, and the potential for flooding in this area.
- Discussion of existing drainage facilities.
- Watershed storm water runoff analysis utilizing Rational Method hydrology calculations.
- Assessment of impacts to existing facilities.

II. HYDROLOGY

A. GENERAL GUIDELINES

The tributary drainage area boundaries were delineated utilizing digital topography provided by recent aerial topography. Detailed hydrologic parameters used in this analysis can be found in the Riverside County Hydrology Manual.

The following assumptions/guidelines were applied in the use of the Rational and Unit Hydrograph Methods:

- Hydrology studies were prepared using methodology outlined by the Riverside County Hydrology Manual. Existing interim and ultimate conditions were analyzed using the Rational Method. (See Existing and Hydrology Map in Appendix B) The Rational Method is commonly used for determining peak discharge for areas less than 640 acres. The existing and interim condition was analyzed using the Unit Hydrograph method and flood routing calculations in order to determine peak flow and volume.

- Both of these methods include the effects of infiltration caused by land use and soil surface characteristics. The Hydrologic Soils Group Map from the Riverside County Hydrology Manual, Plate C-1.42 (see Appendix A), indicates that the project study area consists of soil type C and D. Hydrologic soil ratings are based on a scale of A through D, where D is the least pervious, providing the greatest runoff. The type of vegetation, percent ground cover, and percentage of impervious surfaces also affect the infiltration rate.

- The land use type of undeveloped (average cover) was utilized for the existing condition and commercial for the developed condition.

- Per criteria from the Riverside County Hydrology Manual, an Antecedent Moisture Condition (AMC) II was used for the 100-year analysis that reflects the degree of ground saturation from previous rainfall events. An AMC value was utilized for 2-year, 5-year and 10-year analyses. The AMC value can range from I to III, with condition III being the most severe, allowing for greater runoff and low infiltration.

B. RATIONAL METHOD HYDROLOGY CALCULATION

The Rational Method is an empirical computational procedure for developing peak discharge for storms of a specified recurrence interval in watersheds less than 640 acres. The formula is:

Q = CIA

Where:

Q = Peak discharge, in cubic feet per second.
C = Runoff coefficient representing the ratio of runoff depth to rainfall depth.
I = The time-averaged rainfall intensity for a storm duration equal to the time of concentration, in inches/hour (in./hr.).
A = Drainage area, in acres

1. RATIONAL METHOD GUIDELINES

The following assumptions/guidelines were applied in the use of the Rational Method:

- The basic assumption for the Rational Method is that the precipitation rate is constant and uniform over the entire watershed for the time duration such that runoff could travel from the most remote point in the watershed to the concentration point; after which time the rate of runoff does not increase. This is the time defined as the "time of concentration (T_c)". The method is based on the assumption that the peak flow rate is directly proportional to drainage area, rainfall intensity, and a runoff coefficient "C," which is related to land use and soil type.

- Initial subareas were drawn to be less than 10 acres in size and less than 1,000 feet in length per the Riverside County Hydrology Manual guidelines for this procedure.

- The hydrology calculations assumed 100 percent interception of the surface runoff at the local area drain inlets. A future hydraulics analysis of the proposed storm drain system will estimate the total intercepted flow at each area drain inlet.

2. RATIONAL METHOD CALCULATION SOFTWARE

The hydrologic calculations were performed using software developed by “CIVILDESIGN” Engineering Software for the Riverside County Hydrology Manual. The 100-year storm event design discharge at intermediate points were computed by generating a hydrologic "link-node" model that divides the area into drainage sub-areas, each tributary to a concentration point or hydrologic "node" point determined by the existing and proposed terrain shown on the hydrology maps.

To assess the impact of the proposed development on adjacent properties, the Rational Method was utilized to compute the 100-year peak discharges for the existing and developed conditions. The computer files for the 100-year calculations are included in Appendix C.

C. UNIT HYDROGRAPH CALCULATION SOFTWARE

The hydrologic calculations were performed using software developed by "CIVILDESIGN" Engineering Software for the Riverside County Hydrology Manual. The 2-year, 5-year, 10-year and 100-year storm events were computed by generating hydrologic models. The computer files for the modeled storms are included in Appendix C.

D. FLOOD ROUTING CALCULATION SOFTWARE

Flood routing calculations were performed using software developed by "CIVILDESIGN" Engineering Software for the Riverside County Hydrology Manual. Flood routing calculations were prepared for the 2-year, 5-year, 10-year and 100-year storm events. The computer files for the modeled storms are included in Appendix D.

E. FLOOD ASSESSMENT

The Federal Emergency Management Agent (FEMA) publishes Flood, Insurance Rate Maps (FIRMs) that identify areas where there is flooding potential. The FIRM that applies to this project is Riverside County Panel 2070 (Map Number 06065C2070H), dated August 18, 2014. The entire project site is within Flood Hazard Zone "X" (Other Areas) – an area determined to be outside the 100-year flood plain.

Existing Condition:

In the existing condition, the project site drains from south to north toward Newport Road. Runoff within the site sheet flows across the project site and drains to Newport Road. Runoff from the site is captured by an existing curb inlet near the intersection of Newport Road and Calle Pompeii. The curb inlet connects to an existing storm drain system pipe which is designed to convey developed flows from the project site. See reference calculations provided in Appendix E. Runoff was computed using the rational method in accordance to the Riverside County Hydrology Manual. Rational method calculations are provided in Appendix C.

Existing Land Uses

The existing land uses are based on aerial topography of watershed areas. The existing land consist of undeveloped land with some vegetation. The project is tributary to the Santa Ana River Watershed Region.

Existing Drainage Facilities:

There are no existing drainage facilities within the project limits. There is an existing 54" storm drain in Newport Road that will be utilized for this project. Existing flow patterns within the project site will be preserved.

Developed Condition:

In the developed condition, the project site is divided into one drainage area, Area A.

Area A1 runoff flows from the proposed parking lot areas to a network of catch basins. The catch basins drain to a proposed underground detention basin. An Modular Wetland System (MWS) unit is connected immediately downstream of the underground detention basins. The MWS unit will provide runoff treatment. Larger storm events will bypass the proposed MWS unit. The underground detention basin will provide storage for water quality and detention for 2-year, 5-year, 10-year and 100-year storms. Project runoff will be directed to an existing 54" storm drain in Newport Road through a proposed storm drain system. Refer to Exhibit B for detailed location of storm drain infrastructure.

Refer to Water Quality Management Plan Study submitted for this project for details and location of water quality facilities.

III. SUMMARY OF RESULTS

Table 1 and 2 summarize the 2-year. 5-year, 10-year and 100-year storm flow rates at the outlet point for both the existing and developed conditions for Area A. The 2-year 24-hour storm has flow increase of 0.6 cfs, 1.0 cfs for the 5-year 24-hour and 0.2 cfs for the 10-year 24-hour. The increase in flows is minimal. Most of the storm events peak flow rates are decrease to less than existing conditions. Therefore, the project improves downstream conditions. The supporting calculations are included in Appendix C.

STORM FLOW SUMMARY

TABLE 1

EXISTING FLOWS

DRAINAGE AREA		2-YR				5-YR				10-YR				100-YR			
ID	ACRES	1-HR	3-HR	6-HR	24-HR	1-HR	3-HR	6-HR	24-HR	1-HR	3-HR	6-HR	24-HR	1-HR	3-HR	6-HR	24-HR
A	5.6	4.93	2.35	1.68	0.12	7.10	3.53	2.87	0.20	9.60	5.28	4.62	1.25	15.06	8.25	7.60	2.33
TOTAL FLOWS TO NEWPORT ROAD		4.9	2.4	1.7	0.1	7.1	3.5	2.9	0.2	9.6	5.3	4.6	1.3	15.1	8.3	7.6	2.3

TABLE 2

DEVELOPED FLOWS

DRAINAGE AREA		2-YR				5-YR				10-YR				100-YR			
ID	ACRES	1-HR	3-HR	6-HR	24-HR	1-HR	3-HR	6-HR	24-HR	1-HR	3-HR	6-HR	24-HR	1-HR	3-HR	6-HR	24-HR
A	5.8	9.79	4.00	3.33	1.04	13.19	5.34	4.70	1.40	15.98	6.57	5.96	1.74	24.52	9.94	9.41	2.86
NON ROUTED FLOWS		9.8	4.0	3.3	1.0	13.2	5.3	4.7	1.4	16.0	6.6	6.0	1.7	24.5	9.9	9.4	2.9
OUTLET FLOWS (DETAINED FLOWS)		0.23	0.32	0.73	0.70	0.23	1.43	2.11	1.15	1.14	2.28	2.61	1.47	3.02	3.54	3.89	2.31
INCREASE FLOWS		0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

APPENDIX A

RAINFALL DATA

HYDROLOGIC SOILS GROUP MAP

FIRM MAP

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242** or visit its website at http://www.ngs.noaa.gov/.

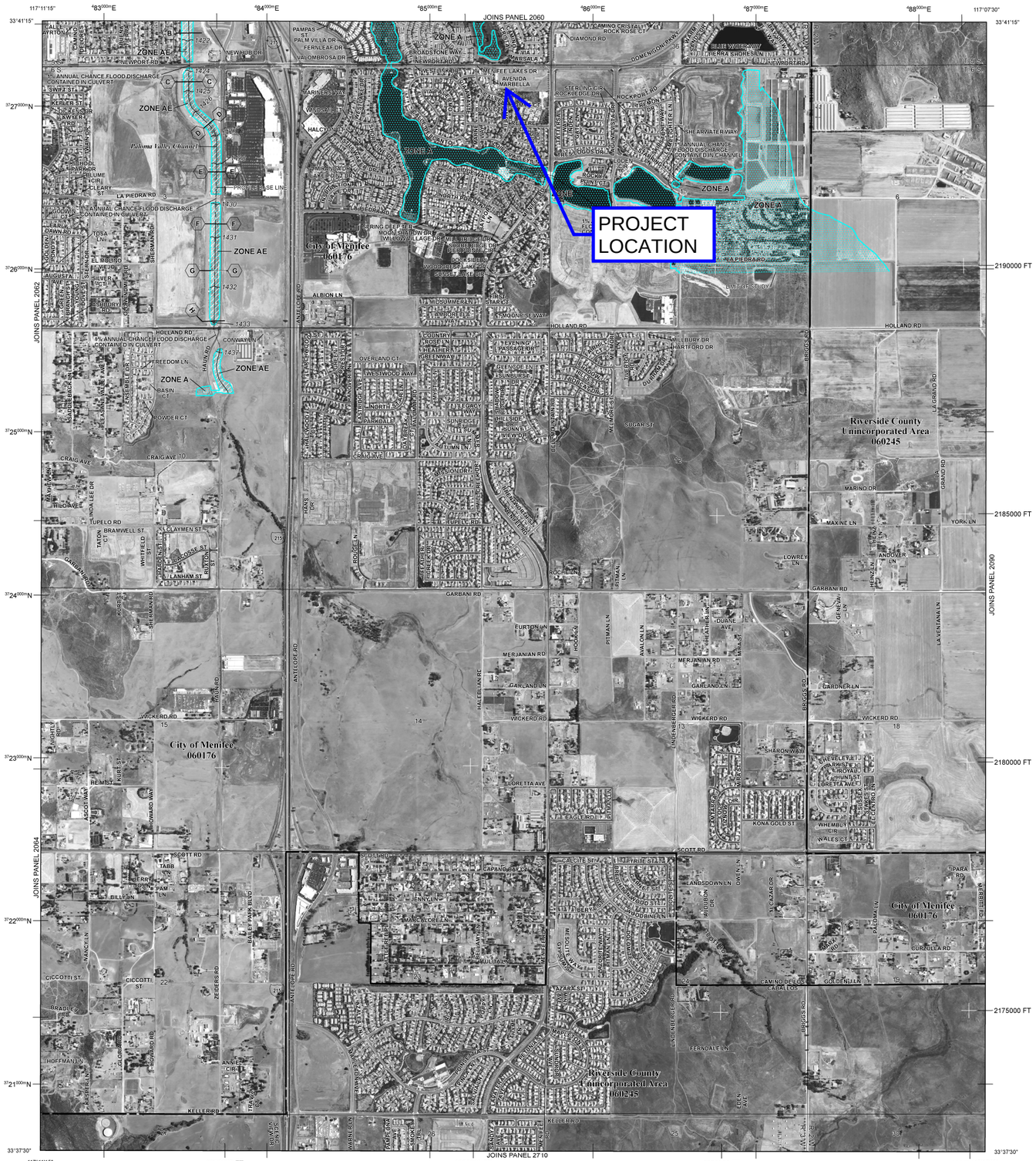
Base map information shown on this FIRM was derived from multiple sources including the Riverside County, CA effective database, and the National Geodetic Survey. Base map imagery for Riverside County, CA is a mosaic of the NAIP 2009 images, 1 meter resolution.

The **"profile base lines"** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities
- 513 (EL 987) — Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4°75'000"E — 1000-meter Universal Transverse Mercator grid ticks, zone 11
- 6000000 FT — 5000-foot grid values: California State Plane coordinate system, Zone VI (FIPSZONE = 406), Lambert projection
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories List on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
August 28, 2008

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
August 18, 2014: for a description of revisions, see Notice to Users page in the Flood Insurance Study report.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'

500 0 500 1,000 1,500 2,000 FEET
300 0 300 600 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 2070H

FIRM

FLOOD INSURANCE RATE MAP

RIVERSIDE COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 2070 OF 3805

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MENIFEE, CITY OF	060176	2070	H
RIVERSIDE COUNTY UNINCORPORATED AREAS	060245	2070	H

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

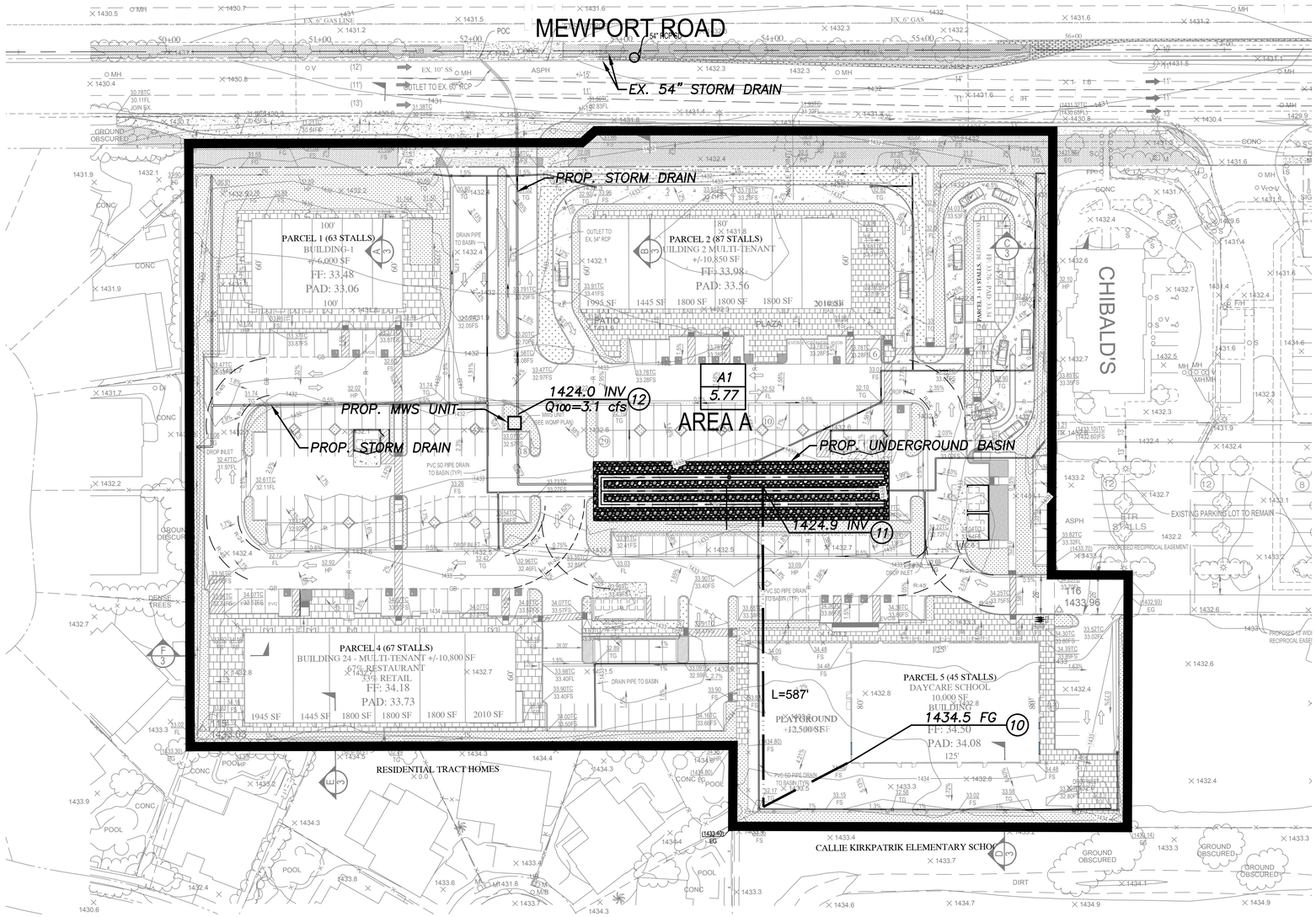
MAP NUMBER
06065C2070H

MAP REVISED
AUGUST 18, 2014

Federal Emergency Management Agency

APPENDIX B

DEVELOPED CONDITION
HYDROLOGY MAP



LEGEND

- MAJOR DRAINAGE AREA LIMITS
- MINOR DRAINAGE AREA LIMITS
- L=100' — FLOW PATH WITH LENGTH
- B2 / 1.21 — DRAINAGE AREA DESIGNATION / AREA IN ACRES
- (12) — NODE NUMBER
- 335.40 FS — FINISHED SURFACE ELEVATION
- 327.50 INV — INVERT ELEVATION
- Q100=1.6 cfs — FLOW RATE OF 100 YEAR STORM (cfs)
- AREA A — DRAINAGE AREA IDENTIFICATION

PREPARED BY:

GHALBI & ASSOCIATES, INC.
23342 SOUTH POINTE DRIVE, SUITE K
LAGUNA HILLS, CA 92654

40' 20' 0' 40'

SCALE: 1" = 40'

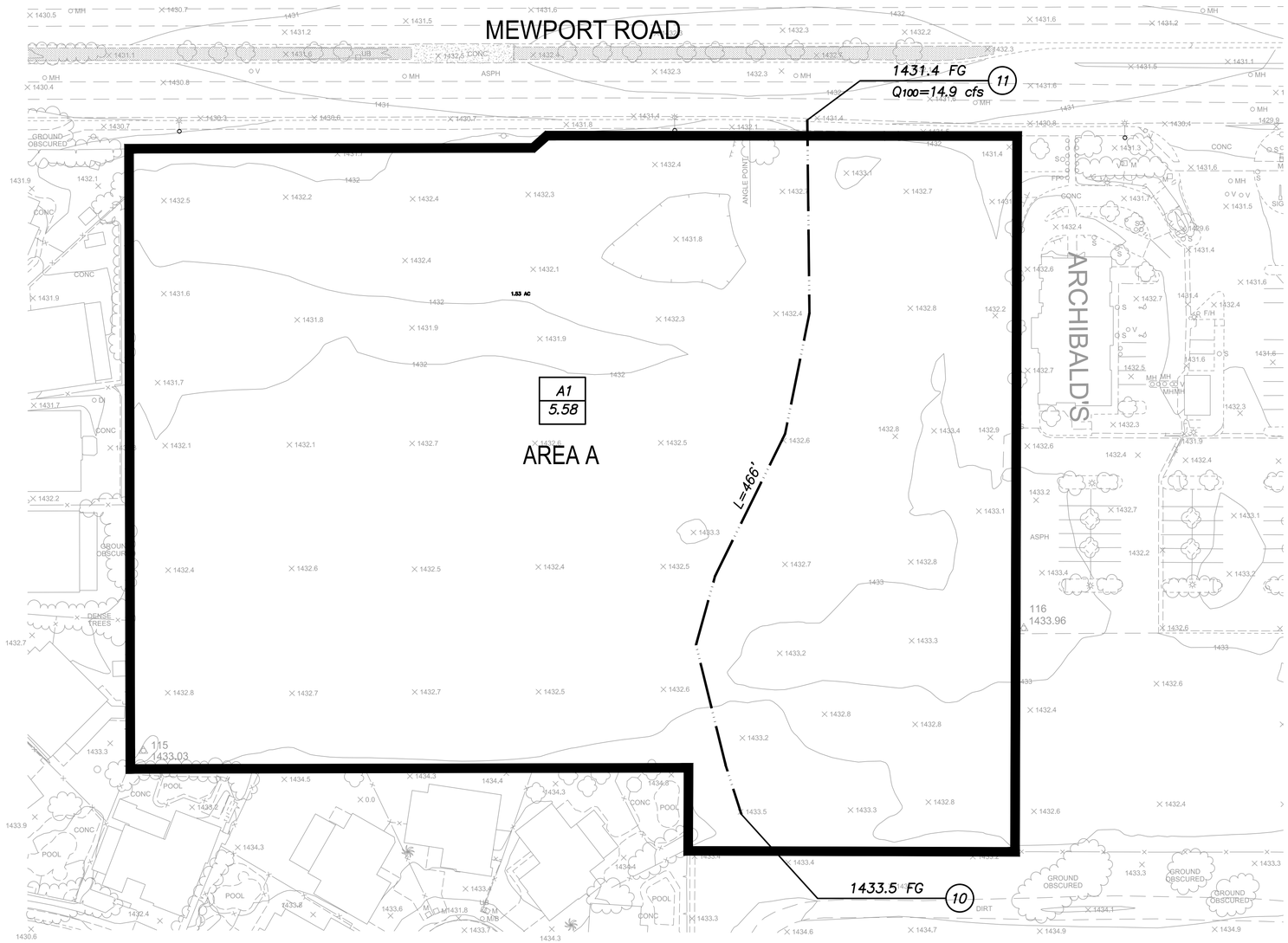
DEVELOPED HYDROLOGY MAP

EXHIBIT B
CITY OF MENIFEE

1/26/2025

EXISTING CONDITION
HYDROLOGY MAP

Drawing Name: p:\Exhibits\Exhibit A - EXISTING CONDITION.dwg



LEGEND

	MAJOR DRAINAGE AREA BOUNDARY
L=100'	FLOW PATH WITH LENGTH
B2 / 1.21	DRAINAGE AREA DESIGNATION / AREA IN ACRES
12	NODE NUMBER
335.40 FS	FINISHED SURFACE ELEVATION
327.50 INV	INVERT ELEVATION
Q100=1.6 cfs	FLOW RATE OF 100 YEAR STORM (cfs)
AREA A	DRAINAGE AREA IDENTIFICATION

PREPARED BY:
GHALBI & ASSOCIATES, INC.
23342 SOUTH POINTE DRIVE, SUITE K
LAGUNA HILLS, CA 92654

40' 20' 0' 40'
SCALE: 1" = 40'

EXISTING HYDROLOGY MAP

EXHIBIT A
CITY OF MENIFEE

8/7/2023

APPENDIX C

EXISTING CONDITION HYDROLOGY

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2005 Version 7.1
Rational Hydrology Study Date: 07/31/23 File:MENDEV.out

EXISTING CONDITION
DA A
100-YEAR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

Program License Serial Number 6094

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

2 year, 1 hour precipitation = 0.500(In.)
100 year, 1 hour precipitation = 1.200(In.)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.200(In/Hr)
Slope of intensity duration curve = 0.5300

++
Process from Point/Station 10.000 to Point/Station 11.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 466.000(Ft.)
Top (of initial area) elevation = 1433.500(Ft.)
Bottom (of initial area) elevation = 1431.400(Ft.)
Difference in elevation = 2.100(Ft.)
Slope = 0.00451 s(percent)= 0.45
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.233 min.
Rainfall intensity = 2.256(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.834
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.270
Decimal fraction soil group D = 0.730
RI index for soil(AMC 2) = 88.19
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 10.499(CFS)

Total initial stream area = 5.580(Ac.)
Pervious area fraction = 1.000
End of computations, total study area = 5.58 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number = 88.2

DEVELOPED CONDITION HYDROLOGY

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2005 Version 7.1
Rational Hydrology Study Date: 07/31/23 File:MENDEV.out

DEVELOPED CONDITION
DA A
100-YEAR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

Program License Serial Number 6094

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

2 year, 1 hour precipitation = 0.500(In.)
100 year, 1 hour precipitation = 1.200(In.)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.200(In/Hr)
Slope of intensity duration curve = 0.5300

++
Process from Point/Station 10.000 to Point/Station 11.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 587.000(Ft.)
Top (of initial area) elevation = 1433.600(Ft.)
Bottom (of initial area) elevation = 1424.900(Ft.)
Difference in elevation = 8.700(Ft.)
Slope = 0.01482 s(percent)= 1.48
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 8.921 min.
Rainfall intensity = 3.295(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.888
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.330
Decimal fraction soil group D = 0.670
RI index for soil(AMC 2) = 73.02
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 13.699(CFS)

Total initial stream area = 4.680(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 4.68 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 73.0

APPENDIX D

EXISTING CONDITION HYDROLOGY

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX12.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
2-YR
1-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.50	2.79

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.20	6.70

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
		Sum = 100.000	Sum=	5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	3.40	0.204	(0.302)		0.184	0.020
2	0.17	4.70	0.282	(0.302)		0.254	0.028
3	0.25	4.70	0.282	(0.302)		0.254	0.028
4	0.33	5.10	0.306	(0.302)		0.275	0.031
5	0.42	5.80	0.348	0.302	(	0.313)	0.046
6	0.50	5.90	0.354	0.302	(	0.319)	0.052
7	0.58	7.10	0.426	0.302	(	0.383)	0.124
8	0.67	8.70	0.522	0.302	(	0.470)	0.220
9	0.75	13.20	0.792	0.302	(	0.713)	0.490
10	0.83	29.70	1.782	0.302	(	1.604)	1.480
11	0.92	7.70	0.462	0.302	(	0.416)	0.160
12	1.00	4.00	0.240	(0.302)		0.216	0.024

```
        (Loss Rate Not Used)
   Sum =     100.0                                    Sum =     2.7
    Flood volume = Effective rainfall      0.23(In)
     times area       5.6(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
    Total soil loss =      0.27(In)
    Total soil loss =     0.128(Ac.Ft)
    Total rainfall =      0.50(In)
    Flood volume =        4567.7 Cubic Feet
    Total soil loss =        5559.5 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      4.929(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        1 - H O U R    S T O R M
                   R u n o f f      H y d r o g r a p h
    ---------------------------------------------------------------------
                Hydrograph in   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
 ---------------------------------------------------------------------------
   0+ 5       0.0003      0.05  Q         |         |         |         |
   0+10       0.0012      0.12  Q         |         |         |         |
   0+15       0.0022      0.15  Q         |         |         |         |
   0+20       0.0033      0.16  QV        |         |         |         |
   0+25       0.0047      0.21  QV        |         |         |         |
   0+30       0.0065      0.26  |QV       |         |         |         |
   0+35       0.0097      0.46  |Q V      |         |         |         |
   0+40       0.0157      0.88  |  Q  V   |         |         |         |
   0+45       0.0282      1.80  |      Q  V         |         |         |
   0+50       0.0621      4.93  |         |        Q|  V      |         |
   0+55       0.0918      4.31  |         |      Q  |         |    V    |
   1+ 0       0.1007      1.30  |    Q    |         |         |       V |
   1+ 5       0.1038      0.46  |Q        |         |         |        V|
   1+10       0.1048      0.13  Q         |         |         |        V|
   1+15       0.1049      0.01  Q         |         |         |        V|
   1+20       0.1049      0.00  Q         |         |         |        V|
---------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX32.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
2-YR
3-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.80	4.46

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.80	10.04

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000 Sum=	5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.302)		0.112	0.012
2	0.17	1.30	0.125	(0.302)		0.112	0.012
3	0.25	1.10	0.106	(0.302)		0.095	0.011
4	0.33	1.50	0.144	(0.302)		0.130	0.014
5	0.42	1.50	0.144	(0.302)		0.130	0.014
6	0.50	1.80	0.173	(0.302)		0.156	0.017
7	0.58	1.50	0.144	(0.302)		0.130	0.014
8	0.67	1.80	0.173	(0.302)		0.156	0.017
9	0.75	1.80	0.173	(0.302)		0.156	0.017
10	0.83	1.50	0.144	(0.302)		0.130	0.014
11	0.92	1.60	0.154	(0.302)		0.138	0.015
12	1.00	1.80	0.173	(0.302)		0.156	0.017
13	1.08	2.20	0.211	(0.302)		0.190	0.021
14	1.17	2.20	0.211	(0.302)		0.190	0.021

15	1.25	2.20	0.211	(	0.302)	0.190	0.021
16	1.33	2.00	0.192	(	0.302)	0.173	0.019
17	1.42	2.60	0.250	(	0.302)	0.225	0.025
18	1.50	2.70	0.259	(	0.302)	0.233	0.026
19	1.58	2.40	0.230	(	0.302)	0.207	0.023
20	1.67	2.70	0.259	(	0.302)	0.233	0.026
21	1.75	3.30	0.317	(	0.302)	0.285	0.032
22	1.83	3.10	0.298	(	0.302)	0.268	0.030
23	1.92	2.90	0.278	(	0.302)	0.251	0.028
24	2.00	3.00	0.288	(	0.302)	0.259	0.029
25	2.08	3.10	0.298	(	0.302)	0.268	0.030
26	2.17	4.20	0.403		0.302	(0.363)	0.102
27	2.25	5.00	0.480		0.302	(0.432)	0.178
28	2.33	3.50	0.336		0.302	(0.302)	0.034
29	2.42	6.80	0.653		0.302	(0.588)	0.351
30	2.50	7.30	0.701		0.302	(0.631)	0.399
31	2.58	8.20	0.787		0.302	(0.708)	0.486
32	2.67	5.90	0.566		0.302	(0.510)	0.265
33	2.75	2.00	0.192	(	0.302)	0.173	0.019
34	2.83	1.80	0.173	(	0.302)	0.156	0.017
35	2.92	1.80	0.173	(	0.302)	0.156	0.017
36	3.00	0.60	0.058	(	0.302)	0.052	0.006

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.4

Flood volume = Effective rainfall 0.20(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.60(In)
Total soil loss = 0.280(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 4021.6 Cubic Feet
Total soil loss = 12182.3 Cubic Feet

Peak flow rate of this hydrograph = 2.347(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0002	0.03	Q				
0+10	0.0006	0.06	Q				
0+15	0.0011	0.06	Q				
0+20	0.0015	0.07	Q				
0+25	0.0021	0.08	Q				
0+30	0.0027	0.09	QV				
0+35	0.0033	0.09	QV				
0+40	0.0039	0.09	QV				
0+45	0.0046	0.10	QV				
0+50	0.0052	0.09	Q V				
0+55	0.0058	0.09	Q V				
1+ 0	0.0064	0.09	Q V				
1+ 5	0.0071	0.11	Q V				
1+10	0.0079	0.12	Q V				
1+15	0.0087	0.12	Q V				
1+20	0.0095	0.11	Q V				
1+25	0.0104	0.12	Q V				

```
   1+30       0.0113      0.14  Q   V     |          |          |          |
   1+35       0.0123      0.14  Q    V    |          |          |          |
   1+40       0.0132      0.14  Q    V    |          |          |          |
   1+45       0.0143      0.16  Q     V   |          |          |          |
   1+50       0.0155      0.17  Q     V   |          |          |          |
   1+55       0.0166      0.16  Q      V  |          |          |          |
   2+ 0       0.0177      0.16  Q      V  |          |          |          |
   2+ 5       0.0188      0.16  Q       V |          |          |          |
   2+10       0.0212      0.34  |Q       V|          |          |          |
   2+15       0.0260      0.70  | Q       |V         |          |          |
   2+20       0.0300      0.58  | Q       | V        |          |          |
   2+25       0.0372      1.05  |   Q     |     V    |          |          |
   2+30       0.0502      1.89  |      Q  |          |V         |          |
   2+35       0.0664      2.35  |        Q|          |       V  |          |
   2+40       0.0808      2.10  |       Q |          |          |    V     |
   2+45       0.0879      1.04  |   Q     |          |          |       V  |
   2+50       0.0903      0.34  |Q        |          |          |        V |
   2+55       0.0915      0.17  Q         |          |          |        V |
   3+ 0       0.0921      0.08  Q         |          |          |        V |
   3+ 5       0.0923      0.03  Q         |          |          |        V |
   3+10       0.0923      0.01  Q         |          |          |        V |
   3+15       0.0923      0.00  Q         |          |          |        V |
   3+20       0.0923      0.00  Q         |          |          |        V |
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX62.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
2-YR
6-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.00	5.58

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	2.50	13.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.000(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.000(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

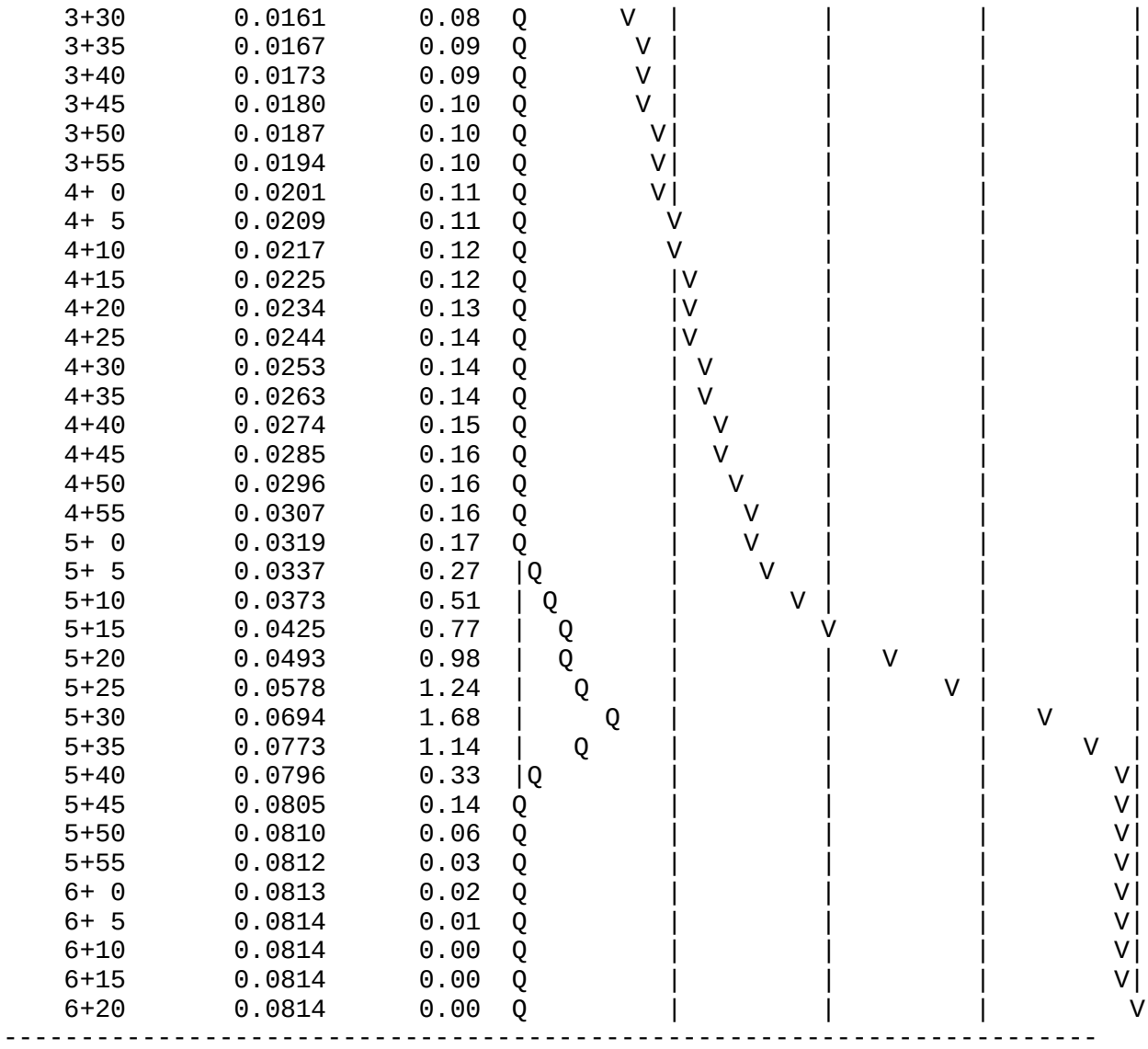
The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.50	0.060	(0.302)		0.054	0.006
2	0.17	0.60	0.072	(0.302)		0.065	0.007
3	0.25	0.60	0.072	(0.302)		0.065	0.007
4	0.33	0.60	0.072	(0.302)		0.065	0.007
5	0.42	0.60	0.072	(0.302)		0.065	0.007
6	0.50	0.70	0.084	(0.302)		0.076	0.008
7	0.58	0.70	0.084	(0.302)		0.076	0.008
8	0.67	0.70	0.084	(0.302)		0.076	0.008
9	0.75	0.70	0.084	(0.302)		0.076	0.008
10	0.83	0.70	0.084	(0.302)		0.076	0.008
11	0.92	0.70	0.084	(0.302)		0.076	0.008
12	1.00	0.80	0.096	(0.302)		0.086	0.010
13	1.08	0.80	0.096	(0.302)		0.086	0.010
14	1.17	0.80	0.096	(0.302)		0.086	0.010

15	1.25	0.80	0.096	(0.302)	0.086	0.010
16	1.33	0.80	0.096	(0.302)	0.086	0.010
17	1.42	0.80	0.096	(0.302)	0.086	0.010
18	1.50	0.80	0.096	(0.302)	0.086	0.010
19	1.58	0.80	0.096	(0.302)	0.086	0.010
20	1.67	0.80	0.096	(0.302)	0.086	0.010
21	1.75	0.80	0.096	(0.302)	0.086	0.010
22	1.83	0.80	0.096	(0.302)	0.086	0.010
23	1.92	0.80	0.096	(0.302)	0.086	0.010
24	2.00	0.90	0.108	(0.302)	0.097	0.011
25	2.08	0.80	0.096	(0.302)	0.086	0.010
26	2.17	0.90	0.108	(0.302)	0.097	0.011
27	2.25	0.90	0.108	(0.302)	0.097	0.011
28	2.33	0.90	0.108	(0.302)	0.097	0.011
29	2.42	0.90	0.108	(0.302)	0.097	0.011
30	2.50	0.90	0.108	(0.302)	0.097	0.011
31	2.58	0.90	0.108	(0.302)	0.097	0.011
32	2.67	0.90	0.108	(0.302)	0.097	0.011
33	2.75	1.00	0.120	(0.302)	0.108	0.012
34	2.83	1.00	0.120	(0.302)	0.108	0.012
35	2.92	1.00	0.120	(0.302)	0.108	0.012
36	3.00	1.00	0.120	(0.302)	0.108	0.012
37	3.08	1.00	0.120	(0.302)	0.108	0.012
38	3.17	1.10	0.132	(0.302)	0.119	0.013
39	3.25	1.10	0.132	(0.302)	0.119	0.013
40	3.33	1.10	0.132	(0.302)	0.119	0.013
41	3.42	1.20	0.144	(0.302)	0.130	0.014
42	3.50	1.30	0.156	(0.302)	0.140	0.016
43	3.58	1.40	0.168	(0.302)	0.151	0.017
44	3.67	1.40	0.168	(0.302)	0.151	0.017
45	3.75	1.50	0.180	(0.302)	0.162	0.018
46	3.83	1.50	0.180	(0.302)	0.162	0.018
47	3.92	1.60	0.192	(0.302)	0.173	0.019
48	4.00	1.60	0.192	(0.302)	0.173	0.019
49	4.08	1.70	0.204	(0.302)	0.184	0.020
50	4.17	1.80	0.216	(0.302)	0.194	0.022
51	4.25	1.90	0.228	(0.302)	0.205	0.023
52	4.33	2.00	0.240	(0.302)	0.216	0.024
53	4.42	2.10	0.252	(0.302)	0.227	0.025
54	4.50	2.10	0.252	(0.302)	0.227	0.025
55	4.58	2.20	0.264	(0.302)	0.238	0.026
56	4.67	2.30	0.276	(0.302)	0.248	0.028
57	4.75	2.40	0.288	(0.302)	0.259	0.029
58	4.83	2.40	0.288	(0.302)	0.259	0.029
59	4.92	2.50	0.300	(0.302)	0.270	0.030
60	5.00	2.60	0.312	(0.302)	0.281	0.031
61	5.08	3.10	0.372	0.302	(0.335)	0.070
62	5.17	3.60	0.432	0.302	(0.389)	0.130
63	5.25	3.90	0.468	0.302	(0.421)	0.166
64	5.33	4.20	0.504	0.302	(0.454)	0.202
65	5.42	4.70	0.564	0.302	(0.508)	0.262
66	5.50	5.60	0.672	0.302	(0.605)	0.370
67	5.58	1.90	0.228	(0.302)	0.205	0.023
68	5.67	0.90	0.108	(0.302)	0.097	0.011
69	5.75	0.60	0.072	(0.302)	0.065	0.007
70	5.83	0.50	0.060	(0.302)	0.054	0.006
71	5.92	0.30	0.036	(0.302)	0.032	0.004
72	6.00	0.20	0.024	(0.302)	0.022	0.002
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	2.1

```
   Flood volume = Effective rainfall      0.18(In)
    times area       5.6(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
   Total soil loss =      0.82(In)
   Total soil loss =     0.384(Ac.Ft)
   Total rainfall =      1.00(In)
   Flood volume =        3546.8 Cubic Feet
   Total soil loss =       16708.3 Cubic Feet
   ------------------------------------------------------------------------
    Peak flow rate of this hydrograph =      1.682(CFS)
   ------------------------------------------------------------------------
   ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                       6 - H O U R    S T O R M
                  R u n o f f      H y d r o g r a p h
   ------------------------------------------------------------------------
               Hydrograph in   5   Minute intervals ((CFS))

   ------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
----------------------------------------------------------------------------
  0+ 5       0.0001      0.01  Q         |         |         |         |
  0+10       0.0003      0.03  Q         |         |         |         |
  0+15       0.0006      0.04  Q         |         |         |         |
  0+20       0.0009      0.04  Q         |         |         |         |
  0+25       0.0011      0.04  Q         |         |         |         |
  0+30       0.0014      0.04  Q         |         |         |         |
  0+35       0.0018      0.05  Q         |         |         |         |
  0+40       0.0021      0.05  QV        |         |         |         |
  0+45       0.0024      0.05  QV        |         |         |         |
  0+50       0.0027      0.05  QV        |         |         |         |
  0+55       0.0031      0.05  QV        |         |         |         |
  1+ 0       0.0034      0.05  QV        |         |         |         |
  1+ 5       0.0038      0.05  QV        |         |         |         |
  1+10       0.0041      0.05  Q V       |         |         |         |
  1+15       0.0045      0.05  Q V       |         |         |         |
  1+20       0.0049      0.05  Q V       |         |         |         |
  1+25       0.0053      0.05  Q V       |         |         |         |
  1+30       0.0056      0.05  Q V       |         |         |         |
  1+35       0.0060      0.05  Q V       |         |         |         |
  1+40       0.0064      0.05  Q  V      |         |         |         |
  1+45       0.0067      0.05  Q  V      |         |         |         |
  1+50       0.0071      0.05  Q  V      |         |         |         |
  1+55       0.0075      0.05  Q  V      |         |         |         |
  2+ 0       0.0079      0.06  Q  V      |         |         |         |
  2+ 5       0.0083      0.06  Q   V     |         |         |         |
  2+10       0.0087      0.06  Q   V     |         |         |         |
  2+15       0.0091      0.06  Q   V     |         |         |         |
  2+20       0.0095      0.06  Q   V     |         |         |         |
  2+25       0.0099      0.06  Q   V     |         |         |         |
  2+30       0.0103      0.06  Q    V    |         |         |         |
  2+35       0.0107      0.06  Q    V    |         |         |         |
  2+40       0.0112      0.06  Q    V    |         |         |         |
  2+45       0.0116      0.06  Q    V    |         |         |         |
  2+50       0.0121      0.07  Q    V    |         |         |         |
  2+55       0.0125      0.07  Q     V   |         |         |         |
  3+ 0       0.0130      0.07  Q     V   |         |         |         |
  3+ 5       0.0135      0.07  Q     V   |         |         |         |
  3+10       0.0139      0.07  Q     V   |         |         |         |
  3+15       0.0144      0.07  Q      V  |         |         |         |
  3+20       0.0150      0.07  Q      V  |         |         |         |
  3+25       0.0155      0.08  Q      V  |         |         |         |
```


3+30 0.0161 0.08
3+35 0.0167 0.09
3+40 0.0173 0.09
3+45 0.0180 0.10
3+50 0.0187 0.10
3+55 0.0194 0.10
4+ 0 0.0201 0.11
4+ 5 0.0209 0.11
4+10 0.0217 0.12
4+15 0.0225 0.12
4+20 0.0234 0.13
4+25 0.0244 0.14
4+30 0.0253 0.14
4+35 0.0263 0.14
4+40 0.0274 0.15
4+45 0.0285 0.16
4+50 0.0296 0.16
4+55 0.0307 0.16
5+ 0 0.0319 0.17
5+ 5 0.0337 0.27
5+10 0.0373 0.51
5+15 0.0425 0.77
5+20 0.0493 0.98
5+25 0.0578 1.24
5+30 0.0694 1.68
5+35 0.0773 1.14
5+40 0.0796 0.33
5+45 0.0805 0.14
5+50 0.0810 0.06
5+55 0.0812 0.03
6+ 0 0.0813 0.02
6+ 5 0.0814 0.01
6+10 0.0814 0.00
6+15 0.0814 0.00
6+20 0.0814 0.00

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
2-YR
24-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.60	8.93

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	4.00	22.32

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 1.600(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.600(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.07	0.013	(0.535)		0.012	0.001
2	0.17	0.07	0.013	(0.533)		0.012	0.001
3	0.25	0.07	0.013	(0.530)		0.012	0.001
4	0.33	0.10	0.019	(0.528)		0.017	0.002
5	0.42	0.10	0.019	(0.526)		0.017	0.002
6	0.50	0.10	0.019	(0.524)		0.017	0.002
7	0.58	0.10	0.019	(0.522)		0.017	0.002
8	0.67	0.10	0.019	(0.520)		0.017	0.002
9	0.75	0.10	0.019	(0.518)		0.017	0.002
10	0.83	0.13	0.026	(0.516)		0.023	0.003
11	0.92	0.13	0.026	(0.514)		0.023	0.003
12	1.00	0.13	0.026	(0.512)		0.023	0.003
13	1.08	0.10	0.019	(0.510)		0.017	0.002
14	1.17	0.10	0.019	(0.508)		0.017	0.002

15	1.25	0.10	0.019	(0.506)	0.017	0.002
16	1.33	0.10	0.019	(0.504)	0.017	0.002
17	1.42	0.10	0.019	(0.502)	0.017	0.002
18	1.50	0.10	0.019	(0.500)	0.017	0.002
19	1.58	0.10	0.019	(0.498)	0.017	0.002
20	1.67	0.10	0.019	(0.496)	0.017	0.002
21	1.75	0.10	0.019	(0.494)	0.017	0.002
22	1.83	0.13	0.026	(0.492)	0.023	0.003
23	1.92	0.13	0.026	(0.490)	0.023	0.003
24	2.00	0.13	0.026	(0.488)	0.023	0.003
25	2.08	0.13	0.026	(0.486)	0.023	0.003
26	2.17	0.13	0.026	(0.484)	0.023	0.003
27	2.25	0.13	0.026	(0.482)	0.023	0.003
28	2.33	0.13	0.026	(0.480)	0.023	0.003
29	2.42	0.13	0.026	(0.478)	0.023	0.003
30	2.50	0.13	0.026	(0.476)	0.023	0.003
31	2.58	0.17	0.032	(0.474)	0.029	0.003
32	2.67	0.17	0.032	(0.472)	0.029	0.003
33	2.75	0.17	0.032	(0.470)	0.029	0.003
34	2.83	0.17	0.032	(0.469)	0.029	0.003
35	2.92	0.17	0.032	(0.467)	0.029	0.003
36	3.00	0.17	0.032	(0.465)	0.029	0.003
37	3.08	0.17	0.032	(0.463)	0.029	0.003
38	3.17	0.17	0.032	(0.461)	0.029	0.003
39	3.25	0.17	0.032	(0.459)	0.029	0.003
40	3.33	0.17	0.032	(0.457)	0.029	0.003
41	3.42	0.17	0.032	(0.455)	0.029	0.003
42	3.50	0.17	0.032	(0.453)	0.029	0.003
43	3.58	0.17	0.032	(0.451)	0.029	0.003
44	3.67	0.17	0.032	(0.449)	0.029	0.003
45	3.75	0.17	0.032	(0.447)	0.029	0.003
46	3.83	0.20	0.038	(0.446)	0.035	0.004
47	3.92	0.20	0.038	(0.444)	0.035	0.004
48	4.00	0.20	0.038	(0.442)	0.035	0.004
49	4.08	0.20	0.038	(0.440)	0.035	0.004
50	4.17	0.20	0.038	(0.438)	0.035	0.004
51	4.25	0.20	0.038	(0.436)	0.035	0.004
52	4.33	0.23	0.045	(0.434)	0.040	0.004
53	4.42	0.23	0.045	(0.433)	0.040	0.004
54	4.50	0.23	0.045	(0.431)	0.040	0.004
55	4.58	0.23	0.045	(0.429)	0.040	0.004
56	4.67	0.23	0.045	(0.427)	0.040	0.004
57	4.75	0.23	0.045	(0.425)	0.040	0.004
58	4.83	0.27	0.051	(0.423)	0.046	0.005
59	4.92	0.27	0.051	(0.421)	0.046	0.005
60	5.00	0.27	0.051	(0.420)	0.046	0.005
61	5.08	0.20	0.038	(0.418)	0.035	0.004
62	5.17	0.20	0.038	(0.416)	0.035	0.004
63	5.25	0.20	0.038	(0.414)	0.035	0.004
64	5.33	0.23	0.045	(0.412)	0.040	0.004
65	5.42	0.23	0.045	(0.411)	0.040	0.004
66	5.50	0.23	0.045	(0.409)	0.040	0.004
67	5.58	0.27	0.051	(0.407)	0.046	0.005
68	5.67	0.27	0.051	(0.405)	0.046	0.005
69	5.75	0.27	0.051	(0.403)	0.046	0.005
70	5.83	0.27	0.051	(0.402)	0.046	0.005
71	5.92	0.27	0.051	(0.400)	0.046	0.005
72	6.00	0.27	0.051	(0.398)	0.046	0.005
73	6.08	0.30	0.058	(0.396)	0.052	0.006
74	6.17	0.30	0.058	(0.395)	0.052	0.006

75	6.25	0.30	0.058	(0.393)	0.052	0.006
76	6.33	0.30	0.058	(0.391)	0.052	0.006
77	6.42	0.30	0.058	(0.389)	0.052	0.006
78	6.50	0.30	0.058	(0.388)	0.052	0.006
79	6.58	0.33	0.064	(0.386)	0.058	0.006
80	6.67	0.33	0.064	(0.384)	0.058	0.006
81	6.75	0.33	0.064	(0.382)	0.058	0.006
82	6.83	0.33	0.064	(0.381)	0.058	0.006
83	6.92	0.33	0.064	(0.379)	0.058	0.006
84	7.00	0.33	0.064	(0.377)	0.058	0.006
85	7.08	0.33	0.064	(0.375)	0.058	0.006
86	7.17	0.33	0.064	(0.374)	0.058	0.006
87	7.25	0.33	0.064	(0.372)	0.058	0.006
88	7.33	0.37	0.070	(0.370)	0.063	0.007
89	7.42	0.37	0.070	(0.369)	0.063	0.007
90	7.50	0.37	0.070	(0.367)	0.063	0.007
91	7.58	0.40	0.077	(0.365)	0.069	0.008
92	7.67	0.40	0.077	(0.364)	0.069	0.008
93	7.75	0.40	0.077	(0.362)	0.069	0.008
94	7.83	0.43	0.083	(0.360)	0.075	0.008
95	7.92	0.43	0.083	(0.359)	0.075	0.008
96	8.00	0.43	0.083	(0.357)	0.075	0.008
97	8.08	0.50	0.096	(0.355)	0.086	0.010
98	8.17	0.50	0.096	(0.354)	0.086	0.010
99	8.25	0.50	0.096	(0.352)	0.086	0.010
100	8.33	0.50	0.096	(0.350)	0.086	0.010
101	8.42	0.50	0.096	(0.349)	0.086	0.010
102	8.50	0.50	0.096	(0.347)	0.086	0.010
103	8.58	0.53	0.102	(0.345)	0.092	0.010
104	8.67	0.53	0.102	(0.344)	0.092	0.010
105	8.75	0.53	0.102	(0.342)	0.092	0.010
106	8.83	0.57	0.109	(0.341)	0.098	0.011
107	8.92	0.57	0.109	(0.339)	0.098	0.011
108	9.00	0.57	0.109	(0.337)	0.098	0.011
109	9.08	0.63	0.122	(0.336)	0.109	0.012
110	9.17	0.63	0.122	(0.334)	0.109	0.012
111	9.25	0.63	0.122	(0.333)	0.109	0.012
112	9.33	0.67	0.128	(0.331)	0.115	0.013
113	9.42	0.67	0.128	(0.329)	0.115	0.013
114	9.50	0.67	0.128	(0.328)	0.115	0.013
115	9.58	0.70	0.134	(0.326)	0.121	0.013
116	9.67	0.70	0.134	(0.325)	0.121	0.013
117	9.75	0.70	0.134	(0.323)	0.121	0.013
118	9.83	0.73	0.141	(0.322)	0.127	0.014
119	9.92	0.73	0.141	(0.320)	0.127	0.014
120	10.00	0.73	0.141	(0.318)	0.127	0.014
121	10.08	0.50	0.096	(0.317)	0.086	0.010
122	10.17	0.50	0.096	(0.315)	0.086	0.010
123	10.25	0.50	0.096	(0.314)	0.086	0.010
124	10.33	0.50	0.096	(0.312)	0.086	0.010
125	10.42	0.50	0.096	(0.311)	0.086	0.010
126	10.50	0.50	0.096	(0.309)	0.086	0.010
127	10.58	0.67	0.128	(0.308)	0.115	0.013
128	10.67	0.67	0.128	(0.306)	0.115	0.013
129	10.75	0.67	0.128	(0.305)	0.115	0.013
130	10.83	0.67	0.128	(0.303)	0.115	0.013
131	10.92	0.67	0.128	(0.302)	0.115	0.013
132	11.00	0.67	0.128	(0.300)	0.115	0.013
133	11.08	0.63	0.122	(0.299)	0.109	0.012
134	11.17	0.63	0.122	(0.297)	0.109	0.012

135	11.25	0.63	0.122	(0.296)	0.109	0.012
136	11.33	0.63	0.122	(0.294)	0.109	0.012
137	11.42	0.63	0.122	(0.293)	0.109	0.012
138	11.50	0.63	0.122	(0.292)	0.109	0.012
139	11.58	0.57	0.109	(0.290)	0.098	0.011
140	11.67	0.57	0.109	(0.289)	0.098	0.011
141	11.75	0.57	0.109	(0.287)	0.098	0.011
142	11.83	0.60	0.115	(0.286)	0.104	0.012
143	11.92	0.60	0.115	(0.284)	0.104	0.012
144	12.00	0.60	0.115	(0.283)	0.104	0.012
145	12.08	0.83	0.160	(0.282)	0.144	0.016
146	12.17	0.83	0.160	(0.280)	0.144	0.016
147	12.25	0.83	0.160	(0.279)	0.144	0.016
148	12.33	0.87	0.166	(0.277)	0.150	0.017
149	12.42	0.87	0.166	(0.276)	0.150	0.017
150	12.50	0.87	0.166	(0.275)	0.150	0.017
151	12.58	0.93	0.179	(0.273)	0.161	0.018
152	12.67	0.93	0.179	(0.272)	0.161	0.018
153	12.75	0.93	0.179	(0.270)	0.161	0.018
154	12.83	0.97	0.186	(0.269)	0.167	0.019
155	12.92	0.97	0.186	(0.268)	0.167	0.019
156	13.00	0.97	0.186	(0.266)	0.167	0.019
157	13.08	1.13	0.218	(0.265)	0.196	0.022
158	13.17	1.13	0.218	(0.264)	0.196	0.022
159	13.25	1.13	0.218	(0.262)	0.196	0.022
160	13.33	1.13	0.218	(0.261)	0.196	0.022
161	13.42	1.13	0.218	(0.260)	0.196	0.022
162	13.50	1.13	0.218	(0.258)	0.196	0.022
163	13.58	0.77	0.147	(0.257)	0.132	0.015
164	13.67	0.77	0.147	(0.256)	0.132	0.015
165	13.75	0.77	0.147	(0.254)	0.132	0.015
166	13.83	0.77	0.147	(0.253)	0.132	0.015
167	13.92	0.77	0.147	(0.252)	0.132	0.015
168	14.00	0.77	0.147	(0.251)	0.132	0.015
169	14.08	0.90	0.173	(0.249)	0.156	0.017
170	14.17	0.90	0.173	(0.248)	0.156	0.017
171	14.25	0.90	0.173	(0.247)	0.156	0.017
172	14.33	0.87	0.166	(0.245)	0.150	0.017
173	14.42	0.87	0.166	(0.244)	0.150	0.017
174	14.50	0.87	0.166	(0.243)	0.150	0.017
175	14.58	0.87	0.166	(0.242)	0.150	0.017
176	14.67	0.87	0.166	(0.240)	0.150	0.017
177	14.75	0.87	0.166	(0.239)	0.150	0.017
178	14.83	0.83	0.160	(0.238)	0.144	0.016
179	14.92	0.83	0.160	(0.237)	0.144	0.016
180	15.00	0.83	0.160	(0.236)	0.144	0.016
181	15.08	0.80	0.154	(0.234)	0.138	0.015
182	15.17	0.80	0.154	(0.233)	0.138	0.015
183	15.25	0.80	0.154	(0.232)	0.138	0.015
184	15.33	0.77	0.147	(0.231)	0.132	0.015
185	15.42	0.77	0.147	(0.230)	0.132	0.015
186	15.50	0.77	0.147	(0.228)	0.132	0.015
187	15.58	0.63	0.122	(0.227)	0.109	0.012
188	15.67	0.63	0.122	(0.226)	0.109	0.012
189	15.75	0.63	0.122	(0.225)	0.109	0.012
190	15.83	0.63	0.122	(0.224)	0.109	0.012
191	15.92	0.63	0.122	(0.223)	0.109	0.012
192	16.00	0.63	0.122	(0.221)	0.109	0.012
193	16.08	0.13	0.026	(0.220)	0.023	0.003
194	16.17	0.13	0.026	(0.219)	0.023	0.003

195	16.25	0.13	0.026	(0.218)	0.023	0.003
196	16.33	0.13	0.026	(0.217)	0.023	0.003
197	16.42	0.13	0.026	(0.216)	0.023	0.003
198	16.50	0.13	0.026	(0.215)	0.023	0.003
199	16.58	0.10	0.019	(0.214)	0.017	0.002
200	16.67	0.10	0.019	(0.213)	0.017	0.002
201	16.75	0.10	0.019	(0.212)	0.017	0.002
202	16.83	0.10	0.019	(0.210)	0.017	0.002
203	16.92	0.10	0.019	(0.209)	0.017	0.002
204	17.00	0.10	0.019	(0.208)	0.017	0.002
205	17.08	0.17	0.032	(0.207)	0.029	0.003
206	17.17	0.17	0.032	(0.206)	0.029	0.003
207	17.25	0.17	0.032	(0.205)	0.029	0.003
208	17.33	0.17	0.032	(0.204)	0.029	0.003
209	17.42	0.17	0.032	(0.203)	0.029	0.003
210	17.50	0.17	0.032	(0.202)	0.029	0.003
211	17.58	0.17	0.032	(0.201)	0.029	0.003
212	17.67	0.17	0.032	(0.200)	0.029	0.003
213	17.75	0.17	0.032	(0.199)	0.029	0.003
214	17.83	0.13	0.026	(0.198)	0.023	0.003
215	17.92	0.13	0.026	(0.197)	0.023	0.003
216	18.00	0.13	0.026	(0.196)	0.023	0.003
217	18.08	0.13	0.026	(0.195)	0.023	0.003
218	18.17	0.13	0.026	(0.194)	0.023	0.003
219	18.25	0.13	0.026	(0.193)	0.023	0.003
220	18.33	0.13	0.026	(0.192)	0.023	0.003
221	18.42	0.13	0.026	(0.191)	0.023	0.003
222	18.50	0.13	0.026	(0.190)	0.023	0.003
223	18.58	0.10	0.019	(0.190)	0.017	0.002
224	18.67	0.10	0.019	(0.189)	0.017	0.002
225	18.75	0.10	0.019	(0.188)	0.017	0.002
226	18.83	0.07	0.013	(0.187)	0.012	0.001
227	18.92	0.07	0.013	(0.186)	0.012	0.001
228	19.00	0.07	0.013	(0.185)	0.012	0.001
229	19.08	0.10	0.019	(0.184)	0.017	0.002
230	19.17	0.10	0.019	(0.183)	0.017	0.002
231	19.25	0.10	0.019	(0.182)	0.017	0.002
232	19.33	0.13	0.026	(0.182)	0.023	0.003
233	19.42	0.13	0.026	(0.181)	0.023	0.003
234	19.50	0.13	0.026	(0.180)	0.023	0.003
235	19.58	0.10	0.019	(0.179)	0.017	0.002
236	19.67	0.10	0.019	(0.178)	0.017	0.002
237	19.75	0.10	0.019	(0.177)	0.017	0.002
238	19.83	0.07	0.013	(0.177)	0.012	0.001
239	19.92	0.07	0.013	(0.176)	0.012	0.001
240	20.00	0.07	0.013	(0.175)	0.012	0.001
241	20.08	0.10	0.019	(0.174)	0.017	0.002
242	20.17	0.10	0.019	(0.174)	0.017	0.002
243	20.25	0.10	0.019	(0.173)	0.017	0.002
244	20.33	0.10	0.019	(0.172)	0.017	0.002
245	20.42	0.10	0.019	(0.171)	0.017	0.002
246	20.50	0.10	0.019	(0.171)	0.017	0.002
247	20.58	0.10	0.019	(0.170)	0.017	0.002
248	20.67	0.10	0.019	(0.169)	0.017	0.002
249	20.75	0.10	0.019	(0.168)	0.017	0.002
250	20.83	0.07	0.013	(0.168)	0.012	0.001
251	20.92	0.07	0.013	(0.167)	0.012	0.001
252	21.00	0.07	0.013	(0.166)	0.012	0.001
253	21.08	0.10	0.019	(0.166)	0.017	0.002
254	21.17	0.10	0.019	(0.165)	0.017	0.002

255	21.25	0.10	0.019	(0.165)	0.017	0.002
256	21.33	0.07	0.013	(0.164)	0.012	0.001
257	21.42	0.07	0.013	(0.163)	0.012	0.001
258	21.50	0.07	0.013	(0.163)	0.012	0.001
259	21.58	0.10	0.019	(0.162)	0.017	0.002
260	21.67	0.10	0.019	(0.161)	0.017	0.002
261	21.75	0.10	0.019	(0.161)	0.017	0.002
262	21.83	0.07	0.013	(0.160)	0.012	0.001
263	21.92	0.07	0.013	(0.160)	0.012	0.001
264	22.00	0.07	0.013	(0.159)	0.012	0.001
265	22.08	0.10	0.019	(0.159)	0.017	0.002
266	22.17	0.10	0.019	(0.158)	0.017	0.002
267	22.25	0.10	0.019	(0.158)	0.017	0.002
268	22.33	0.07	0.013	(0.157)	0.012	0.001
269	22.42	0.07	0.013	(0.157)	0.012	0.001
270	22.50	0.07	0.013	(0.156)	0.012	0.001
271	22.58	0.07	0.013	(0.156)	0.012	0.001
272	22.67	0.07	0.013	(0.155)	0.012	0.001
273	22.75	0.07	0.013	(0.155)	0.012	0.001
274	22.83	0.07	0.013	(0.155)	0.012	0.001
275	22.92	0.07	0.013	(0.154)	0.012	0.001
276	23.00	0.07	0.013	(0.154)	0.012	0.001
277	23.08	0.07	0.013	(0.153)	0.012	0.001
278	23.17	0.07	0.013	(0.153)	0.012	0.001
279	23.25	0.07	0.013	(0.153)	0.012	0.001
280	23.33	0.07	0.013	(0.152)	0.012	0.001
281	23.42	0.07	0.013	(0.152)	0.012	0.001
282	23.50	0.07	0.013	(0.152)	0.012	0.001
283	23.58	0.07	0.013	(0.152)	0.012	0.001
284	23.67	0.07	0.013	(0.151)	0.012	0.001
285	23.75	0.07	0.013	(0.151)	0.012	0.001
286	23.83	0.07	0.013	(0.151)	0.012	0.001
287	23.92	0.07	0.013	(0.151)	0.012	0.001
288	24.00	0.07	0.013	(0.151)	0.012	0.001

(Loss Rate Not Used)

Sum = 100.0 Sum = 1.9

Flood volume = Effective rainfall 0.16(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 1.44(In)
Total soil loss = 0.670(Ac.Ft)
Total rainfall = 1.60(In)
Flood volume = 3240.8 Cubic Feet
Total soil loss = 29167.5 Cubic Feet

Peak flow rate of this hydrograph = 0.122(CFS)

++

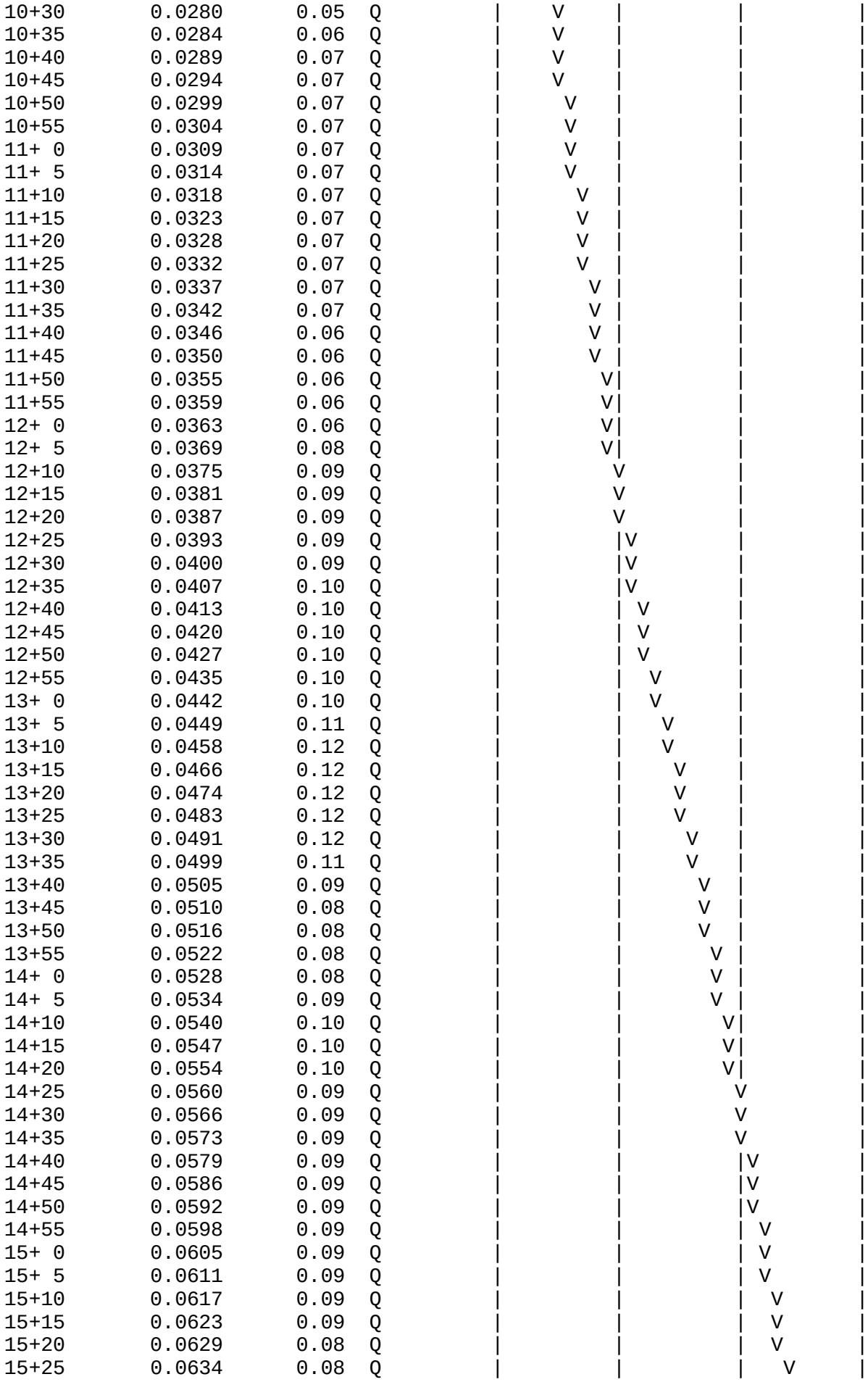
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0001	0.01	Q	|	|	|	|
0+15	0.0001	0.01	Q	|	|	|	|
0+20	0.0002	0.01	Q	|	|	|	|
0+25	0.0002	0.01	Q	|	|	|	|

0+30	0.0003	0.01	Q	|	|	|	|
0+35	0.0004	0.01	Q	|	|	|	|
0+40	0.0005	0.01	Q	|	|	|	|
0+45	0.0005	0.01	Q	|	|	|	|
0+50	0.0006	0.01	Q	|	|	|	|
0+55	0.0007	0.01	Q	|	|	|	|
1+ 0	0.0008	0.01	Q	|	|	|	|
1+ 5	0.0009	0.01	Q	|	|	|	|
1+10	0.0010	0.01	Q	|	|	|	|
1+15	0.0011	0.01	Q	|	|	|	|
1+20	0.0011	0.01	Q	|	|	|	|
1+25	0.0012	0.01	Q	|	|	|	|
1+30	0.0013	0.01	Q	|	|	|	|
1+35	0.0014	0.01	Q	|	|	|	|
1+40	0.0014	0.01	Q	|	|	|	|
1+45	0.0015	0.01	Q	|	|	|	|
1+50	0.0016	0.01	Q	|	|	|	|
1+55	0.0017	0.01	Q	|	|	|	|
2+ 0	0.0018	0.01	Q	|	|	|	|
2+ 5	0.0019	0.01	QV	|	|	|	|
2+10	0.0020	0.01	QV	|	|	|	|
2+15	0.0021	0.01	QV	|	|	|	|
2+20	0.0022	0.01	QV	|	|	|	|
2+25	0.0023	0.01	QV	|	|	|	|
2+30	0.0024	0.01	QV	|	|	|	|
2+35	0.0025	0.02	QV	|	|	|	|
2+40	0.0026	0.02	QV	|	|	|	|
2+45	0.0027	0.02	QV	|	|	|	|
2+50	0.0029	0.02	QV	|	|	|	|
2+55	0.0030	0.02	QV	|	|	|	|
3+ 0	0.0031	0.02	QV	|	|	|	|
3+ 5	0.0032	0.02	QV	|	|	|	|
3+10	0.0034	0.02	QV	|	|	|	|
3+15	0.0035	0.02	QV	|	|	|	|
3+20	0.0036	0.02	QV	|	|	|	|
3+25	0.0037	0.02	Q V	|	|	|	|
3+30	0.0038	0.02	Q V	|	|	|	|
3+35	0.0040	0.02	Q V	|	|	|	|
3+40	0.0041	0.02	Q V	|	|	|	|
3+45	0.0042	0.02	Q V	|	|	|	|
3+50	0.0044	0.02	Q V	|	|	|	|
3+55	0.0045	0.02	Q V	|	|	|	|
4+ 0	0.0046	0.02	Q V	|	|	|	|
4+ 5	0.0048	0.02	Q V	|	|	|	|
4+10	0.0049	0.02	Q V	|	|	|	|
4+15	0.0051	0.02	Q V	|	|	|	|
4+20	0.0053	0.02	Q V	|	|	|	|
4+25	0.0054	0.02	Q V	|	|	|	|
4+30	0.0056	0.03	Q V	|	|	|	|
4+35	0.0058	0.03	Q V	|	|	|	|
4+40	0.0059	0.03	Q V	|	|	|	|
4+45	0.0061	0.03	Q V	|	|	|	|
4+50	0.0063	0.03	Q V	|	|	|	|
4+55	0.0065	0.03	Q V	|	|	|	|
5+ 0	0.0067	0.03	Q V	|	|	|	|
5+ 5	0.0069	0.03	Q V	|	|	|	|
5+10	0.0070	0.02	Q V	|	|	|	|
5+15	0.0072	0.02	Q V	|	|	|	|
5+20	0.0073	0.02	Q V	|	|	|	|
5+25	0.0075	0.02	Q V	|	|	|	|

5+30	0.0077	0.03	Q	V	|	|	|	|
5+35	0.0079	0.03	Q	V	|	|	|	|
5+40	0.0081	0.03	Q	V	|	|	|	|
5+45	0.0083	0.03	Q	V	|	|	|	|
5+50	0.0085	0.03	Q	V	|	|	|	|
5+55	0.0087	0.03	Q	V	|	|	|	|
6+ 0	0.0089	0.03	Q	V	|	|	|	|
6+ 5	0.0091	0.03	Q	V	|	|	|	|
6+10	0.0093	0.03	Q	V	|	|	|	|
6+15	0.0095	0.03	Q	V	|	|	|	|
6+20	0.0097	0.03	Q	V	|	|	|	|
6+25	0.0099	0.03	Q	V	|	|	|	|
6+30	0.0102	0.03	Q	V	|	|	|	|
6+35	0.0104	0.03	Q	V	|	|	|	|
6+40	0.0107	0.04	Q	V	|	|	|	|
6+45	0.0109	0.04	Q	V	|	|	|	|
6+50	0.0111	0.04	Q	V	|	|	|	|
6+55	0.0114	0.04	Q	V	|	|	|	|
7+ 0	0.0116	0.04	Q	V	|	|	|	|
7+ 5	0.0119	0.04	Q	V	|	|	|	|
7+10	0.0121	0.04	Q	V	|	|	|	|
7+15	0.0124	0.04	Q	V	|	|	|	|
7+20	0.0126	0.04	Q	V	|	|	|	|
7+25	0.0129	0.04	Q	V	|	|	|	|
7+30	0.0132	0.04	Q	V	|	|	|	|
7+35	0.0135	0.04	Q	V	|	|	|	|
7+40	0.0138	0.04	Q	V	|	|	|	|
7+45	0.0141	0.04	Q	V	|	|	|	|
7+50	0.0144	0.04	Q	V	|	|	|	|
7+55	0.0147	0.05	Q	V	|	|	|	|
8+ 0	0.0150	0.05	Q	V	|	|	|	|
8+ 5	0.0154	0.05	Q	V	|	|	|	|
8+10	0.0157	0.05	Q	V	|	|	|	|
8+15	0.0161	0.05	Q	V	|	|	|	|
8+20	0.0165	0.05	Q	V	|	|	|	|
8+25	0.0168	0.05	Q	V	|	|	|	|
8+30	0.0172	0.05	Q	V	|	|	|	|
8+35	0.0176	0.06	Q	V	|	|	|	|
8+40	0.0180	0.06	Q	V	|	|	|	|
8+45	0.0184	0.06	Q	V	|	|	|	|
8+50	0.0188	0.06	Q	V	|	|	|	|
8+55	0.0192	0.06	Q	V	|	|	|	|
9+ 0	0.0196	0.06	Q	V	|	|	|	|
9+ 5	0.0201	0.06	Q	V	|	|	|	|
9+10	0.0205	0.07	Q	V	|	|	|	|
9+15	0.0210	0.07	Q	V	|	|	|	|
9+20	0.0215	0.07	Q	V	|	|	|	|
9+25	0.0220	0.07	Q	V	|	|	|	|
9+30	0.0225	0.07	Q	V	|	|	|	|
9+35	0.0230	0.07	Q	V	|	|	|	|
9+40	0.0235	0.08	Q	V	|	|	|	|
9+45	0.0240	0.08	Q	V	|	|	|	|
9+50	0.0245	0.08	Q	V	|	|	|	|
9+55	0.0251	0.08	Q	V	|	|	|	|
10+ 0	0.0256	0.08	Q	V	|	|	|	|
10+ 5	0.0261	0.07	Q	V	|	|	|	|
10+10	0.0265	0.06	Q	V	|	|	|	|
10+15	0.0269	0.06	Q	V	|	|	|	|
10+20	0.0272	0.05	Q	V	|	|	|	|
10+25	0.0276	0.05	Q	V	|	|	|	|



15+30	0.0640	0.08	Q	|	|	|	V |
15+35	0.0645	0.08	Q	|	|	|	V |
15+40	0.0650	0.07	Q	|	|	|	V |
15+45	0.0655	0.07	Q	|	|	|	V |
15+50	0.0660	0.07	Q	|	|	|	V |
15+55	0.0664	0.07	Q	|	|	|	V |
16+ 0	0.0669	0.07	Q	|	|	|	V |
16+ 5	0.0672	0.05	Q	|	|	|	V |
16+10	0.0674	0.02	Q	|	|	|	V |
16+15	0.0675	0.02	Q	|	|	|	V |
16+20	0.0676	0.01	Q	|	|	|	V |
16+25	0.0677	0.01	Q	|	|	|	V |
16+30	0.0678	0.01	Q	|	|	|	V |
16+35	0.0679	0.01	Q	|	|	|	V |
16+40	0.0679	0.01	Q	|	|	|	V |
16+45	0.0680	0.01	Q	|	|	|	V |
16+50	0.0681	0.01	Q	|	|	|	V |
16+55	0.0682	0.01	Q	|	|	|	V |
17+ 0	0.0682	0.01	Q	|	|	|	V |
17+ 5	0.0683	0.01	Q	|	|	|	V |
17+10	0.0685	0.02	Q	|	|	|	V |
17+15	0.0686	0.02	Q	|	|	|	V |
17+20	0.0687	0.02	Q	|	|	|	V |
17+25	0.0688	0.02	Q	|	|	|	V |
17+30	0.0689	0.02	Q	|	|	|	V |
17+35	0.0691	0.02	Q	|	|	|	V |
17+40	0.0692	0.02	Q	|	|	|	V |
17+45	0.0693	0.02	Q	|	|	|	V |
17+50	0.0694	0.02	Q	|	|	|	V |
17+55	0.0695	0.01	Q	|	|	|	V |
18+ 0	0.0696	0.01	Q	|	|	|	V |
18+ 5	0.0697	0.01	Q	|	|	|	V |
18+10	0.0698	0.01	Q	|	|	|	V |
18+15	0.0699	0.01	Q	|	|	|	V |
18+20	0.0700	0.01	Q	|	|	|	V |
18+25	0.0701	0.01	Q	|	|	|	V |
18+30	0.0702	0.01	Q	|	|	|	V |
18+35	0.0703	0.01	Q	|	|	|	V |
18+40	0.0704	0.01	Q	|	|	|	V |
18+45	0.0705	0.01	Q	|	|	|	V |
18+50	0.0705	0.01	Q	|	|	|	V |
18+55	0.0706	0.01	Q	|	|	|	V |
19+ 0	0.0706	0.01	Q	|	|	|	V |
19+ 5	0.0707	0.01	Q	|	|	|	V |
19+10	0.0708	0.01	Q	|	|	|	V |
19+15	0.0708	0.01	Q	|	|	|	V |
19+20	0.0709	0.01	Q	|	|	|	V |
19+25	0.0710	0.01	Q	|	|	|	V |
19+30	0.0711	0.01	Q	|	|	|	V |
19+35	0.0712	0.01	Q	|	|	|	V |
19+40	0.0713	0.01	Q	|	|	|	V |
19+45	0.0714	0.01	Q	|	|	|	V |
19+50	0.0714	0.01	Q	|	|	|	V |
19+55	0.0715	0.01	Q	|	|	|	V |
20+ 0	0.0715	0.01	Q	|	|	|	V |
20+ 5	0.0716	0.01	Q	|	|	|	V |
20+10	0.0717	0.01	Q	|	|	|	V |
20+15	0.0717	0.01	Q	|	|	|	V |
20+20	0.0718	0.01	Q	|	|	|	V |
20+25	0.0719	0.01	Q	|	|	|	V |

20+30	0.0720	0.01	Q	|	|	|	V |
20+35	0.0720	0.01	Q	|	|	|	V |
20+40	0.0721	0.01	Q	|	|	|	V |
20+45	0.0722	0.01	Q	|	|	|	V |
20+50	0.0722	0.01	Q	|	|	|	V |
20+55	0.0723	0.01	Q	|	|	|	V |
21+ 0	0.0724	0.01	Q	|	|	|	V |
21+ 5	0.0724	0.01	Q	|	|	|	V |
21+10	0.0725	0.01	Q	|	|	|	V |
21+15	0.0726	0.01	Q	|	|	|	V|
21+20	0.0726	0.01	Q	|	|	|	V|
21+25	0.0727	0.01	Q	|	|	|	V|
21+30	0.0727	0.01	Q	|	|	|	V|
21+35	0.0728	0.01	Q	|	|	|	V|
21+40	0.0729	0.01	Q	|	|	|	V|
21+45	0.0729	0.01	Q	|	|	|	V|
21+50	0.0730	0.01	Q	|	|	|	V|
21+55	0.0730	0.01	Q	|	|	|	V|
22+ 0	0.0731	0.01	Q	|	|	|	V|
22+ 5	0.0732	0.01	Q	|	|	|	V|
22+10	0.0732	0.01	Q	|	|	|	V|
22+15	0.0733	0.01	Q	|	|	|	V|
22+20	0.0734	0.01	Q	|	|	|	V|
22+25	0.0734	0.01	Q	|	|	|	V|
22+30	0.0735	0.01	Q	|	|	|	V|
22+35	0.0735	0.01	Q	|	|	|	V|
22+40	0.0736	0.01	Q	|	|	|	V|
22+45	0.0736	0.01	Q	|	|	|	V|
22+50	0.0737	0.01	Q	|	|	|	V|
22+55	0.0737	0.01	Q	|	|	|	V|
23+ 0	0.0738	0.01	Q	|	|	|	V|
23+ 5	0.0738	0.01	Q	|	|	|	V|
23+10	0.0739	0.01	Q	|	|	|	V|
23+15	0.0739	0.01	Q	|	|	|	V|
23+20	0.0740	0.01	Q	|	|	|	V|
23+25	0.0740	0.01	Q	|	|	|	V|
23+30	0.0741	0.01	Q	|	|	|	V|
23+35	0.0741	0.01	Q	|	|	|	V|
23+40	0.0742	0.01	Q	|	|	|	V|
23+45	0.0742	0.01	Q	|	|	|	V|
23+50	0.0743	0.01	Q	|	|	|	V|
23+55	0.0743	0.01	Q	|	|	|	V|
24+ 0	0.0744	0.01	Q	|	|	|	V|
24+ 5	0.0744	0.00	Q	|	|	|	V|
24+10	0.0744	0.00	Q	|	|	|	V|
24+15	0.0744	0.00	Q	|	|	|	V|
24+20	0.0744	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX15.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
5-YR
1-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.50	2.79

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.20	6.70

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
		Sum = 100.000	Sum=	5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.40	0.271	(0.302)	0.244	0.027
2	0.17	4.70	0.374	0.302	(0.337)	0.073
3	0.25	4.70	0.374	0.302	(0.337)	0.073
4	0.33	5.10	0.406	0.302	(0.366)	0.105
5	0.42	5.80	0.462	0.302	(0.416)	0.161
6	0.50	5.90	0.470	0.302	(0.423)	0.168
7	0.58	7.10	0.566	0.302	(0.509)	0.264
8	0.67	8.70	0.693	0.302	(0.624)	0.392
9	0.75	13.20	1.052	0.302	(0.946)	0.750
10	0.83	29.70	2.366	0.302	(2.130)	2.065
11	0.92	7.70	0.613	0.302	(0.552)	0.312
12	1.00	4.00	0.319	(0.302)	0.287	0.032

(Loss Rate Not Used)
Sum = 100.0 Sum = 4.4
Flood volume = Effective rainfall 0.37(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 0.30(In)
Total soil loss = 0.137(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 7461.8 Cubic Feet
Total soil loss = 5986.2 Cubic Feet

Peak flow rate of this hydrograph = 7.102(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0005	0.07	Q				
0+10	0.0021	0.24	Q				
0+15	0.0047	0.37	Q				
0+20	0.0079	0.47	Q				
0+25	0.0127	0.70	Q				
0+30	0.0187	0.87	QV				
0+35	0.0267	1.16	Q V				
0+40	0.0385	1.72	Q V				
0+45	0.0589	2.95	Q V				
0+50	0.1078	7.10			V Q		
0+55	0.1510	6.27			Q	V	
1+ 0	0.1650	2.04	Q			V	
1+ 5	0.1697	0.68	Q			V	
1+10	0.1711	0.20	Q			V	
1+15	0.1713	0.03	Q			V	
1+20	0.1713	0.00	Q			V	

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX35.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
5-YR
3-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.80	4.46

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.80	10.04

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 1.034(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.034(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.161	(0.302)		0.145	0.016
2	0.17	1.30	0.161	(0.302)		0.145	0.016
3	0.25	1.10	0.137	(0.302)		0.123	0.014
4	0.33	1.50	0.186	(0.302)		0.168	0.019
5	0.42	1.50	0.186	(0.302)		0.168	0.019
6	0.50	1.80	0.223	(0.302)		0.201	0.022
7	0.58	1.50	0.186	(0.302)		0.168	0.019
8	0.67	1.80	0.223	(0.302)		0.201	0.022
9	0.75	1.80	0.223	(0.302)		0.201	0.022
10	0.83	1.50	0.186	(0.302)		0.168	0.019
11	0.92	1.60	0.199	(0.302)		0.179	0.020
12	1.00	1.80	0.223	(0.302)		0.201	0.022
13	1.08	2.20	0.273	(0.302)		0.246	0.027
14	1.17	2.20	0.273	(0.302)		0.246	0.027

15	1.25	2.20	0.273	(	0.302)	0.246	0.027
16	1.33	2.00	0.248	(	0.302)	0.223	0.025
17	1.42	2.60	0.323	(	0.302)	0.290	0.032
18	1.50	2.70	0.335	(	0.302)	0.302	0.034
19	1.58	2.40	0.298	(	0.302)	0.268	0.030
20	1.67	2.70	0.335	(	0.302)	0.302	0.034
21	1.75	3.30	0.410		0.302	(0.369)	0.108
22	1.83	3.10	0.385		0.302	(0.346)	0.083
23	1.92	2.90	0.360		0.302	(0.324)	0.058
24	2.00	3.00	0.372		0.302	(0.335)	0.071
25	2.08	3.10	0.385		0.302	(0.346)	0.083
26	2.17	4.20	0.521		0.302	(0.469)	0.220
27	2.25	5.00	0.621		0.302	(0.558)	0.319
28	2.33	3.50	0.434		0.302	(0.391)	0.133
29	2.42	6.80	0.844		0.302	(0.760)	0.542
30	2.50	7.30	0.906		0.302	(0.815)	0.604
31	2.58	8.20	1.018		0.302	(0.916)	0.716
32	2.67	5.90	0.732		0.302	(0.659)	0.431
33	2.75	2.00	0.248	(	0.302)	0.223	0.025
34	2.83	1.80	0.223	(	0.302)	0.201	0.022
35	2.92	1.80	0.223	(	0.302)	0.201	0.022
36	3.00	0.60	0.074	(	0.302)	0.067	0.007

(Loss Rate Not Used)

Sum = 100.0 Sum = 3.9

Flood volume = Effective rainfall 0.33(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 0.71(In)
Total soil loss = 0.329(Ac.Ft)
Total rainfall = 1.03(In)
Flood volume = 6600.5 Cubic Feet
Total soil loss = 14347.6 Cubic Feet

Peak flow rate of this hydrograph = 3.532(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0003	0.04	Q				
0+10	0.0008	0.08	Q				
0+15	0.0014	0.08	Q				
0+20	0.0020	0.09	Q				
0+25	0.0027	0.10	Q				
0+30	0.0035	0.11	Q				
0+35	0.0042	0.11	QV				
0+40	0.0050	0.12	QV				
0+45	0.0059	0.12	QV				
0+50	0.0067	0.12	QV				
0+55	0.0074	0.11	QV				
1+ 0	0.0083	0.12	Q V				
1+ 5	0.0092	0.14	Q V				
1+10	0.0102	0.15	Q V				
1+15	0.0113	0.15	Q V				
1+20	0.0123	0.15	Q V				
1+25	0.0134	0.16	Q V				

```
   1+30       0.0146      0.18  Q  V      |          |          |          |
   1+35       0.0158      0.18  Q   V     |          |          |          |
   1+40       0.0171      0.18  Q   V     |          |          |          |
   1+45       0.0196      0.37  |Q   V     |          |          |          |
   1+50       0.0230      0.49  |Q    V    |          |          |          |
   1+55       0.0258      0.41  |Q    V    |          |          |          |
   2+ 0       0.0284      0.38  |Q     V   |          |          |          |
   2+ 5       0.0313      0.43  |Q      V  |          |          |          |
   2+10       0.0368      0.79  |  Q     V|          |          |          |
   2+15       0.0462      1.37  |    Q     | V        |          |          |
   2+20       0.0547      1.23  |   Q      |   V      |          |          |
   2+25       0.0674      1.85  |      Q   |      V   |          |          |
   2+30       0.0876      2.93  |          |Q         |  V       |          |
   2+35       0.1119      3.53  |          |   Q      |        V |          |
   2+40       0.1340      3.21  |          | Q        |          |    V     |
   2+45       0.1452      1.62  |     Q    |          |          |       V  |
   2+50       0.1487      0.51  | Q        |          |          |         V|
   2+55       0.1504      0.25  Q          |          |          |         V|
   3+ 0       0.1512      0.11  Q          |          |          |         V|
   3+ 5       0.1514      0.04  Q          |          |          |         V|
   3+10       0.1515      0.01  Q          |          |          |         V|
   3+15       0.1515      0.00  Q          |          |          |         V|
   3+20       0.1515      0.00  Q          |          |          |         V|
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX65.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
5-YR
6-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.00	5.58

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	2.50	13.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.351(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.351(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

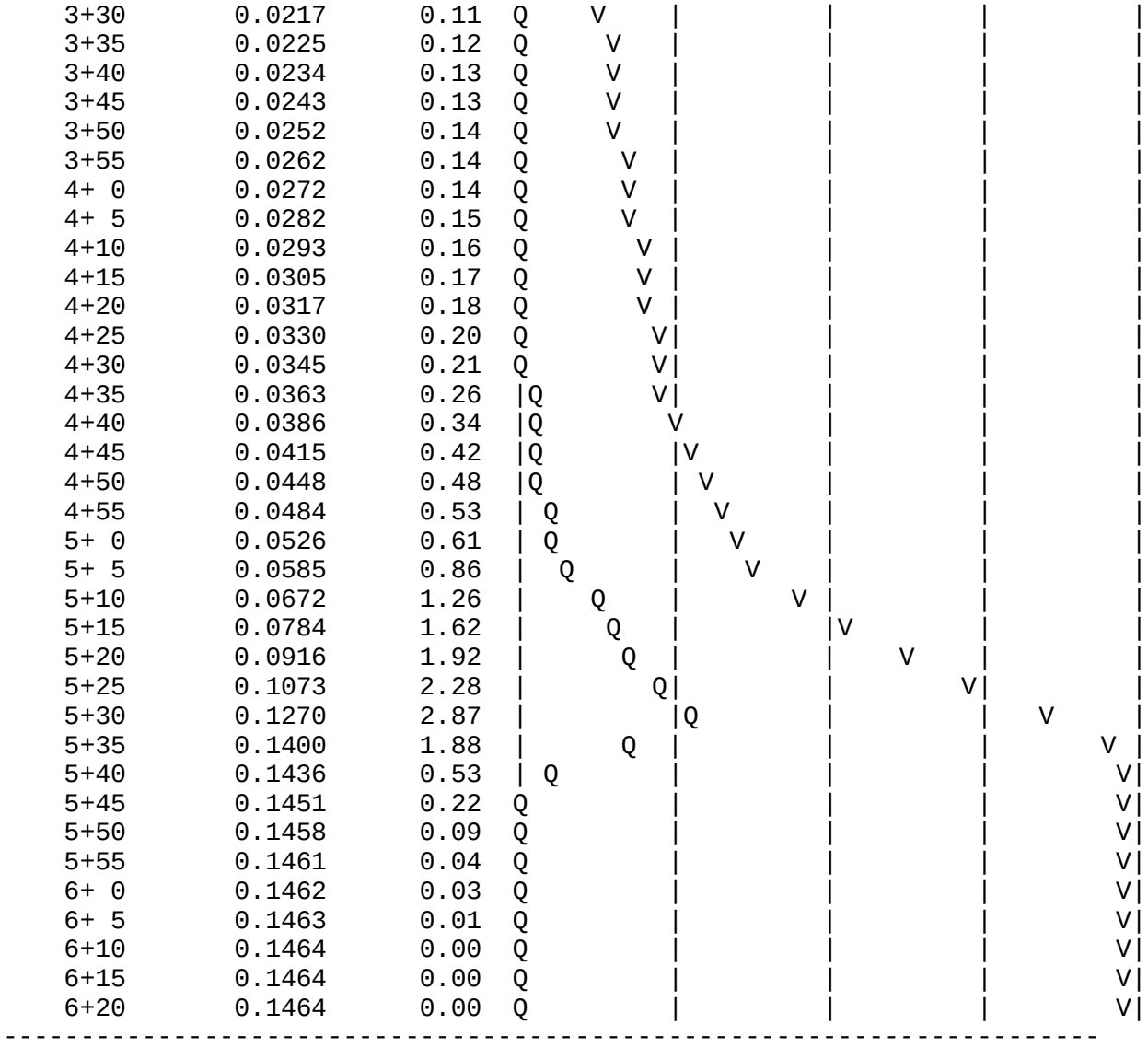
The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.50	0.081	(0.302)		0.073	0.008
2	0.17	0.60	0.097	(0.302)		0.088	0.010
3	0.25	0.60	0.097	(0.302)		0.088	0.010
4	0.33	0.60	0.097	(0.302)		0.088	0.010
5	0.42	0.60	0.097	(0.302)		0.088	0.010
6	0.50	0.70	0.114	(0.302)		0.102	0.011
7	0.58	0.70	0.114	(0.302)		0.102	0.011
8	0.67	0.70	0.114	(0.302)		0.102	0.011
9	0.75	0.70	0.114	(0.302)		0.102	0.011
10	0.83	0.70	0.114	(0.302)		0.102	0.011
11	0.92	0.70	0.114	(0.302)		0.102	0.011
12	1.00	0.80	0.130	(0.302)		0.117	0.013
13	1.08	0.80	0.130	(0.302)		0.117	0.013
14	1.17	0.80	0.130	(0.302)		0.117	0.013

15	1.25	0.80	0.130	(0.302)	0.117	0.013
16	1.33	0.80	0.130	(0.302)	0.117	0.013
17	1.42	0.80	0.130	(0.302)	0.117	0.013
18	1.50	0.80	0.130	(0.302)	0.117	0.013
19	1.58	0.80	0.130	(0.302)	0.117	0.013
20	1.67	0.80	0.130	(0.302)	0.117	0.013
21	1.75	0.80	0.130	(0.302)	0.117	0.013
22	1.83	0.80	0.130	(0.302)	0.117	0.013
23	1.92	0.80	0.130	(0.302)	0.117	0.013
24	2.00	0.90	0.146	(0.302)	0.131	0.015
25	2.08	0.80	0.130	(0.302)	0.117	0.013
26	2.17	0.90	0.146	(0.302)	0.131	0.015
27	2.25	0.90	0.146	(0.302)	0.131	0.015
28	2.33	0.90	0.146	(0.302)	0.131	0.015
29	2.42	0.90	0.146	(0.302)	0.131	0.015
30	2.50	0.90	0.146	(0.302)	0.131	0.015
31	2.58	0.90	0.146	(0.302)	0.131	0.015
32	2.67	0.90	0.146	(0.302)	0.131	0.015
33	2.75	1.00	0.162	(0.302)	0.146	0.016
34	2.83	1.00	0.162	(0.302)	0.146	0.016
35	2.92	1.00	0.162	(0.302)	0.146	0.016
36	3.00	1.00	0.162	(0.302)	0.146	0.016
37	3.08	1.00	0.162	(0.302)	0.146	0.016
38	3.17	1.10	0.178	(0.302)	0.161	0.018
39	3.25	1.10	0.178	(0.302)	0.161	0.018
40	3.33	1.10	0.178	(0.302)	0.161	0.018
41	3.42	1.20	0.195	(0.302)	0.175	0.019
42	3.50	1.30	0.211	(0.302)	0.190	0.021
43	3.58	1.40	0.227	(0.302)	0.204	0.023
44	3.67	1.40	0.227	(0.302)	0.204	0.023
45	3.75	1.50	0.243	(0.302)	0.219	0.024
46	3.83	1.50	0.243	(0.302)	0.219	0.024
47	3.92	1.60	0.259	(0.302)	0.234	0.026
48	4.00	1.60	0.259	(0.302)	0.234	0.026
49	4.08	1.70	0.276	(0.302)	0.248	0.028
50	4.17	1.80	0.292	(0.302)	0.263	0.029
51	4.25	1.90	0.308	(0.302)	0.277	0.031
52	4.33	2.00	0.324	(0.302)	0.292	0.032
53	4.42	2.10	0.341	0.302	(0.306)	0.039
54	4.50	2.10	0.341	0.302	(0.306)	0.039
55	4.58	2.20	0.357	0.302	(0.321)	0.055
56	4.67	2.30	0.373	0.302	(0.336)	0.071
57	4.75	2.40	0.389	0.302	(0.350)	0.088
58	4.83	2.40	0.389	0.302	(0.350)	0.088
59	4.92	2.50	0.405	0.302	(0.365)	0.104
60	5.00	2.60	0.422	0.302	(0.379)	0.120
61	5.08	3.10	0.503	0.302	(0.452)	0.201
62	5.17	3.60	0.584	0.302	(0.525)	0.282
63	5.25	3.90	0.632	0.302	(0.569)	0.331
64	5.33	4.20	0.681	0.302	(0.613)	0.379
65	5.42	4.70	0.762	0.302	(0.686)	0.461
66	5.50	5.60	0.908	0.302	(0.817)	0.606
67	5.58	1.90	0.308	(0.302)	0.277	0.031
68	5.67	0.90	0.146	(0.302)	0.131	0.015
69	5.75	0.60	0.097	(0.302)	0.088	0.010
70	5.83	0.50	0.081	(0.302)	0.073	0.008
71	5.92	0.30	0.049	(0.302)	0.044	0.005
72	6.00	0.20	0.032	(0.302)	0.029	0.003
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	3.8

```
   Flood volume = Effective rainfall      0.31(In)
    times area       5.6(Ac.)/[(In)/(Ft.)] =       0.1(Ac.Ft)
   Total soil loss =      1.04(In)
   Total soil loss =     0.482(Ac.Ft)
   Total rainfall =      1.35(In)
   Flood volume =        6375.5 Cubic Feet
   Total soil loss =       20995.9 Cubic Feet
   ----------------------------------------------------------------------
    Peak flow rate of this hydrograph =      2.869(CFS)
   ----------------------------------------------------------------------
   ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                       6 - H O U R    S T O R M
                  R u n o f f      H y d r o g r a p h
   ----------------------------------------------------------------------
               Hydrograph in   5   Minute intervals ((CFS))

   ----------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
----------------------------------------------------------------------------
  0+ 5       0.0001      0.02  Q         |         |         |         |
  0+10       0.0004      0.04  Q         |         |         |         |
  0+15       0.0008      0.05  Q         |         |         |         |
  0+20       0.0012      0.05  Q         |         |         |         |
  0+25       0.0015      0.05  Q         |         |         |         |
  0+30       0.0019      0.06  Q         |         |         |         |
  0+35       0.0024      0.06  Q         |         |         |         |
  0+40       0.0028      0.06  Q         |         |         |         |
  0+45       0.0032      0.06  Q         |         |         |         |
  0+50       0.0037      0.06  QV        |         |         |         |
  0+55       0.0041      0.06  QV        |         |         |         |
  1+ 0       0.0046      0.07  QV        |         |         |         |
  1+ 5       0.0051      0.07  QV        |         |         |         |
  1+10       0.0056      0.07  QV        |         |         |         |
  1+15       0.0061      0.07  QV        |         |         |         |
  1+20       0.0066      0.07  QV        |         |         |         |
  1+25       0.0071      0.07  QV        |         |         |         |
  1+30       0.0076      0.07  Q V       |         |         |         |
  1+35       0.0081      0.07  Q V       |         |         |         |
  1+40       0.0086      0.07  Q V       |         |         |         |
  1+45       0.0091      0.07  Q V       |         |         |         |
  1+50       0.0096      0.07  Q V       |         |         |         |
  1+55       0.0101      0.07  Q V       |         |         |         |
  2+ 0       0.0106      0.08  Q V       |         |         |         |
  2+ 5       0.0112      0.08  Q  V      |         |         |         |
  2+10       0.0117      0.08  Q  V      |         |         |         |
  2+15       0.0123      0.08  Q  V      |         |         |         |
  2+20       0.0128      0.08  Q  V      |         |         |         |
  2+25       0.0134      0.08  Q  V      |         |         |         |
  2+30       0.0140      0.08  Q  V      |         |         |         |
  2+35       0.0145      0.08  Q  V      |         |         |         |
  2+40       0.0151      0.08  Q   V     |         |         |         |
  2+45       0.0157      0.09  Q   V     |         |         |         |
  2+50       0.0163      0.09  Q   V     |         |         |         |
  2+55       0.0169      0.09  Q   V     |         |         |         |
  3+ 0       0.0176      0.09  Q   V     |         |         |         |
  3+ 5       0.0182      0.09  Q   V     |         |         |         |
  3+10       0.0188      0.10  Q    V    |         |         |         |
  3+15       0.0195      0.10  Q    V    |         |         |         |
  3+20       0.0202      0.10  Q    V    |         |         |         |
  3+25       0.0209      0.10  Q    V    |         |         |         |
```


3+30 0.0217 0.11
3+35 0.0225 0.12
3+40 0.0234 0.13
3+45 0.0243 0.13
3+50 0.0252 0.14
3+55 0.0262 0.14
4+ 0 0.0272 0.14
4+ 5 0.0282 0.15
4+10 0.0293 0.16
4+15 0.0305 0.17
4+20 0.0317 0.18
4+25 0.0330 0.20
4+30 0.0345 0.21
4+35 0.0363 0.26
4+40 0.0386 0.34
4+45 0.0415 0.42
4+50 0.0448 0.48
4+55 0.0484 0.53
5+ 0 0.0526 0.61
5+ 5 0.0585 0.86
5+10 0.0672 1.26
5+15 0.0784 1.62
5+20 0.0916 1.92
5+25 0.1073 2.28
5+30 0.1270 2.87
5+35 0.1400 1.88
5+40 0.1436 0.53
5+45 0.1451 0.22
5+50 0.1458 0.09
5+55 0.1461 0.04
6+ 0 0.1462 0.03
6+ 5 0.1463 0.01
6+10 0.1464 0.00
6+15 0.1464 0.00
6+20 0.1464 0.00

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX245.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
5-YR
24-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.60	8.93

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	4.00	22.32

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 2.162(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.162(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	75.1	0.302	0.000	0.302	1.000	0.302
					Sum (F) =	0.302

Area averaged mean soil loss (F) (In/Hr) = 0.302
Minimum soil loss rate ((In/Hr)) = 0.151
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.07	0.017	(0.535)		0.016	0.002
2	0.17	0.07	0.017	(0.533)		0.016	0.002
3	0.25	0.07	0.017	(0.530)		0.016	0.002
4	0.33	0.10	0.026	(0.528)		0.023	0.003
5	0.42	0.10	0.026	(0.526)		0.023	0.003
6	0.50	0.10	0.026	(0.524)		0.023	0.003
7	0.58	0.10	0.026	(0.522)		0.023	0.003
8	0.67	0.10	0.026	(0.520)		0.023	0.003
9	0.75	0.10	0.026	(0.518)		0.023	0.003
10	0.83	0.13	0.035	(0.516)		0.031	0.003
11	0.92	0.13	0.035	(0.514)		0.031	0.003
12	1.00	0.13	0.035	(0.512)		0.031	0.003
13	1.08	0.10	0.026	(0.510)		0.023	0.003
14	1.17	0.10	0.026	(0.508)		0.023	0.003

15	1.25	0.10	0.026	(0.506)	0.023	0.003
16	1.33	0.10	0.026	(0.504)	0.023	0.003
17	1.42	0.10	0.026	(0.502)	0.023	0.003
18	1.50	0.10	0.026	(0.500)	0.023	0.003
19	1.58	0.10	0.026	(0.498)	0.023	0.003
20	1.67	0.10	0.026	(0.496)	0.023	0.003
21	1.75	0.10	0.026	(0.494)	0.023	0.003
22	1.83	0.13	0.035	(0.492)	0.031	0.003
23	1.92	0.13	0.035	(0.490)	0.031	0.003
24	2.00	0.13	0.035	(0.488)	0.031	0.003
25	2.08	0.13	0.035	(0.486)	0.031	0.003
26	2.17	0.13	0.035	(0.484)	0.031	0.003
27	2.25	0.13	0.035	(0.482)	0.031	0.003
28	2.33	0.13	0.035	(0.480)	0.031	0.003
29	2.42	0.13	0.035	(0.478)	0.031	0.003
30	2.50	0.13	0.035	(0.476)	0.031	0.003
31	2.58	0.17	0.043	(0.474)	0.039	0.004
32	2.67	0.17	0.043	(0.472)	0.039	0.004
33	2.75	0.17	0.043	(0.470)	0.039	0.004
34	2.83	0.17	0.043	(0.469)	0.039	0.004
35	2.92	0.17	0.043	(0.467)	0.039	0.004
36	3.00	0.17	0.043	(0.465)	0.039	0.004
37	3.08	0.17	0.043	(0.463)	0.039	0.004
38	3.17	0.17	0.043	(0.461)	0.039	0.004
39	3.25	0.17	0.043	(0.459)	0.039	0.004
40	3.33	0.17	0.043	(0.457)	0.039	0.004
41	3.42	0.17	0.043	(0.455)	0.039	0.004
42	3.50	0.17	0.043	(0.453)	0.039	0.004
43	3.58	0.17	0.043	(0.451)	0.039	0.004
44	3.67	0.17	0.043	(0.449)	0.039	0.004
45	3.75	0.17	0.043	(0.447)	0.039	0.004
46	3.83	0.20	0.052	(0.446)	0.047	0.005
47	3.92	0.20	0.052	(0.444)	0.047	0.005
48	4.00	0.20	0.052	(0.442)	0.047	0.005
49	4.08	0.20	0.052	(0.440)	0.047	0.005
50	4.17	0.20	0.052	(0.438)	0.047	0.005
51	4.25	0.20	0.052	(0.436)	0.047	0.005
52	4.33	0.23	0.061	(0.434)	0.054	0.006
53	4.42	0.23	0.061	(0.433)	0.054	0.006
54	4.50	0.23	0.061	(0.431)	0.054	0.006
55	4.58	0.23	0.061	(0.429)	0.054	0.006
56	4.67	0.23	0.061	(0.427)	0.054	0.006
57	4.75	0.23	0.061	(0.425)	0.054	0.006
58	4.83	0.27	0.069	(0.423)	0.062	0.007
59	4.92	0.27	0.069	(0.421)	0.062	0.007
60	5.00	0.27	0.069	(0.420)	0.062	0.007
61	5.08	0.20	0.052	(0.418)	0.047	0.005
62	5.17	0.20	0.052	(0.416)	0.047	0.005
63	5.25	0.20	0.052	(0.414)	0.047	0.005
64	5.33	0.23	0.061	(0.412)	0.054	0.006
65	5.42	0.23	0.061	(0.411)	0.054	0.006
66	5.50	0.23	0.061	(0.409)	0.054	0.006
67	5.58	0.27	0.069	(0.407)	0.062	0.007
68	5.67	0.27	0.069	(0.405)	0.062	0.007
69	5.75	0.27	0.069	(0.403)	0.062	0.007
70	5.83	0.27	0.069	(0.402)	0.062	0.007
71	5.92	0.27	0.069	(0.400)	0.062	0.007
72	6.00	0.27	0.069	(0.398)	0.062	0.007
73	6.08	0.30	0.078	(0.396)	0.070	0.008
74	6.17	0.30	0.078	(0.395)	0.070	0.008

75	6.25	0.30	0.078	(0.393)	0.070	0.008
76	6.33	0.30	0.078	(0.391)	0.070	0.008
77	6.42	0.30	0.078	(0.389)	0.070	0.008
78	6.50	0.30	0.078	(0.388)	0.070	0.008
79	6.58	0.33	0.086	(0.386)	0.078	0.009
80	6.67	0.33	0.086	(0.384)	0.078	0.009
81	6.75	0.33	0.086	(0.382)	0.078	0.009
82	6.83	0.33	0.086	(0.381)	0.078	0.009
83	6.92	0.33	0.086	(0.379)	0.078	0.009
84	7.00	0.33	0.086	(0.377)	0.078	0.009
85	7.08	0.33	0.086	(0.375)	0.078	0.009
86	7.17	0.33	0.086	(0.374)	0.078	0.009
87	7.25	0.33	0.086	(0.372)	0.078	0.009
88	7.33	0.37	0.095	(0.370)	0.086	0.010
89	7.42	0.37	0.095	(0.369)	0.086	0.010
90	7.50	0.37	0.095	(0.367)	0.086	0.010
91	7.58	0.40	0.104	(0.365)	0.093	0.010
92	7.67	0.40	0.104	(0.364)	0.093	0.010
93	7.75	0.40	0.104	(0.362)	0.093	0.010
94	7.83	0.43	0.112	(0.360)	0.101	0.011
95	7.92	0.43	0.112	(0.359)	0.101	0.011
96	8.00	0.43	0.112	(0.357)	0.101	0.011
97	8.08	0.50	0.130	(0.355)	0.117	0.013
98	8.17	0.50	0.130	(0.354)	0.117	0.013
99	8.25	0.50	0.130	(0.352)	0.117	0.013
100	8.33	0.50	0.130	(0.350)	0.117	0.013
101	8.42	0.50	0.130	(0.349)	0.117	0.013
102	8.50	0.50	0.130	(0.347)	0.117	0.013
103	8.58	0.53	0.138	(0.345)	0.125	0.014
104	8.67	0.53	0.138	(0.344)	0.125	0.014
105	8.75	0.53	0.138	(0.342)	0.125	0.014
106	8.83	0.57	0.147	(0.341)	0.132	0.015
107	8.92	0.57	0.147	(0.339)	0.132	0.015
108	9.00	0.57	0.147	(0.337)	0.132	0.015
109	9.08	0.63	0.164	(0.336)	0.148	0.016
110	9.17	0.63	0.164	(0.334)	0.148	0.016
111	9.25	0.63	0.164	(0.333)	0.148	0.016
112	9.33	0.67	0.173	(0.331)	0.156	0.017
113	9.42	0.67	0.173	(0.329)	0.156	0.017
114	9.50	0.67	0.173	(0.328)	0.156	0.017
115	9.58	0.70	0.182	(0.326)	0.163	0.018
116	9.67	0.70	0.182	(0.325)	0.163	0.018
117	9.75	0.70	0.182	(0.323)	0.163	0.018
118	9.83	0.73	0.190	(0.322)	0.171	0.019
119	9.92	0.73	0.190	(0.320)	0.171	0.019
120	10.00	0.73	0.190	(0.318)	0.171	0.019
121	10.08	0.50	0.130	(0.317)	0.117	0.013
122	10.17	0.50	0.130	(0.315)	0.117	0.013
123	10.25	0.50	0.130	(0.314)	0.117	0.013
124	10.33	0.50	0.130	(0.312)	0.117	0.013
125	10.42	0.50	0.130	(0.311)	0.117	0.013
126	10.50	0.50	0.130	(0.309)	0.117	0.013
127	10.58	0.67	0.173	(0.308)	0.156	0.017
128	10.67	0.67	0.173	(0.306)	0.156	0.017
129	10.75	0.67	0.173	(0.305)	0.156	0.017
130	10.83	0.67	0.173	(0.303)	0.156	0.017
131	10.92	0.67	0.173	(0.302)	0.156	0.017
132	11.00	0.67	0.173	(0.300)	0.156	0.017
133	11.08	0.63	0.164	(0.299)	0.148	0.016
134	11.17	0.63	0.164	(0.297)	0.148	0.016

135	11.25	0.63	0.164	(	0.296)		0.148		0.016
136	11.33	0.63	0.164	(	0.294)		0.148		0.016
137	11.42	0.63	0.164	(	0.293)		0.148		0.016
138	11.50	0.63	0.164	(	0.292)		0.148		0.016
139	11.58	0.57	0.147	(	0.290)		0.132		0.015
140	11.67	0.57	0.147	(	0.289)		0.132		0.015
141	11.75	0.57	0.147	(	0.287)		0.132		0.015
142	11.83	0.60	0.156	(	0.286)		0.140		0.016
143	11.92	0.60	0.156	(	0.284)		0.140		0.016
144	12.00	0.60	0.156	(	0.283)		0.140		0.016
145	12.08	0.83	0.216	(	0.282)		0.195		0.022
146	12.17	0.83	0.216	(	0.280)		0.195		0.022
147	12.25	0.83	0.216	(	0.279)		0.195		0.022
148	12.33	0.87	0.225	(	0.277)		0.202		0.022
149	12.42	0.87	0.225	(	0.276)		0.202		0.022
150	12.50	0.87	0.225	(	0.275)		0.202		0.022
151	12.58	0.93	0.242	(	0.273)		0.218		0.024
152	12.67	0.93	0.242	(	0.272)		0.218		0.024
153	12.75	0.93	0.242	(	0.270)		0.218		0.024
154	12.83	0.97	0.251	(	0.269)		0.226		0.025
155	12.92	0.97	0.251	(	0.268)		0.226		0.025
156	13.00	0.97	0.251	(	0.266)		0.226		0.025
157	13.08	1.13	0.294	(	0.265)		0.265		0.029
158	13.17	1.13	0.294		0.264	(	0.265)		0.030
159	13.25	1.13	0.294		0.262	(	0.265)		0.032
160	13.33	1.13	0.294		0.261	(	0.265)		0.033
161	13.42	1.13	0.294		0.260	(	0.265)		0.034
162	13.50	1.13	0.294		0.258	(	0.265)		0.036
163	13.58	0.77	0.199	(	0.257)		0.179		0.020
164	13.67	0.77	0.199	(	0.256)		0.179		0.020
165	13.75	0.77	0.199	(	0.254)		0.179		0.020
166	13.83	0.77	0.199	(	0.253)		0.179		0.020
167	13.92	0.77	0.199	(	0.252)		0.179		0.020
168	14.00	0.77	0.199	(	0.251)		0.179		0.020
169	14.08	0.90	0.234	(	0.249)		0.210		0.023
170	14.17	0.90	0.234	(	0.248)		0.210		0.023
171	14.25	0.90	0.234	(	0.247)		0.210		0.023
172	14.33	0.87	0.225	(	0.245)		0.202		0.022
173	14.42	0.87	0.225	(	0.244)		0.202		0.022
174	14.50	0.87	0.225	(	0.243)		0.202		0.022
175	14.58	0.87	0.225	(	0.242)		0.202		0.022
176	14.67	0.87	0.225	(	0.240)		0.202		0.022
177	14.75	0.87	0.225	(	0.239)		0.202		0.022
178	14.83	0.83	0.216	(	0.238)		0.195		0.022
179	14.92	0.83	0.216	(	0.237)		0.195		0.022
180	15.00	0.83	0.216	(	0.236)		0.195		0.022
181	15.08	0.80	0.208	(	0.234)		0.187		0.021
182	15.17	0.80	0.208	(	0.233)		0.187		0.021
183	15.25	0.80	0.208	(	0.232)		0.187		0.021
184	15.33	0.77	0.199	(	0.231)		0.179		0.020
185	15.42	0.77	0.199	(	0.230)		0.179		0.020
186	15.50	0.77	0.199	(	0.228)		0.179		0.020
187	15.58	0.63	0.164	(	0.227)		0.148		0.016
188	15.67	0.63	0.164	(	0.226)		0.148		0.016
189	15.75	0.63	0.164	(	0.225)		0.148		0.016
190	15.83	0.63	0.164	(	0.224)		0.148		0.016
191	15.92	0.63	0.164	(	0.223)		0.148		0.016
192	16.00	0.63	0.164	(	0.221)		0.148		0.016
193	16.08	0.13	0.035	(	0.220)		0.031		0.003
194	16.17	0.13	0.035	(	0.219)		0.031		0.003

195	16.25	0.13	0.035	(0.218)	0.031	0.003
196	16.33	0.13	0.035	(0.217)	0.031	0.003
197	16.42	0.13	0.035	(0.216)	0.031	0.003
198	16.50	0.13	0.035	(0.215)	0.031	0.003
199	16.58	0.10	0.026	(0.214)	0.023	0.003
200	16.67	0.10	0.026	(0.213)	0.023	0.003
201	16.75	0.10	0.026	(0.212)	0.023	0.003
202	16.83	0.10	0.026	(0.210)	0.023	0.003
203	16.92	0.10	0.026	(0.209)	0.023	0.003
204	17.00	0.10	0.026	(0.208)	0.023	0.003
205	17.08	0.17	0.043	(0.207)	0.039	0.004
206	17.17	0.17	0.043	(0.206)	0.039	0.004
207	17.25	0.17	0.043	(0.205)	0.039	0.004
208	17.33	0.17	0.043	(0.204)	0.039	0.004
209	17.42	0.17	0.043	(0.203)	0.039	0.004
210	17.50	0.17	0.043	(0.202)	0.039	0.004
211	17.58	0.17	0.043	(0.201)	0.039	0.004
212	17.67	0.17	0.043	(0.200)	0.039	0.004
213	17.75	0.17	0.043	(0.199)	0.039	0.004
214	17.83	0.13	0.035	(0.198)	0.031	0.003
215	17.92	0.13	0.035	(0.197)	0.031	0.003
216	18.00	0.13	0.035	(0.196)	0.031	0.003
217	18.08	0.13	0.035	(0.195)	0.031	0.003
218	18.17	0.13	0.035	(0.194)	0.031	0.003
219	18.25	0.13	0.035	(0.193)	0.031	0.003
220	18.33	0.13	0.035	(0.192)	0.031	0.003
221	18.42	0.13	0.035	(0.191)	0.031	0.003
222	18.50	0.13	0.035	(0.190)	0.031	0.003
223	18.58	0.10	0.026	(0.190)	0.023	0.003
224	18.67	0.10	0.026	(0.189)	0.023	0.003
225	18.75	0.10	0.026	(0.188)	0.023	0.003
226	18.83	0.07	0.017	(0.187)	0.016	0.002
227	18.92	0.07	0.017	(0.186)	0.016	0.002
228	19.00	0.07	0.017	(0.185)	0.016	0.002
229	19.08	0.10	0.026	(0.184)	0.023	0.003
230	19.17	0.10	0.026	(0.183)	0.023	0.003
231	19.25	0.10	0.026	(0.182)	0.023	0.003
232	19.33	0.13	0.035	(0.182)	0.031	0.003
233	19.42	0.13	0.035	(0.181)	0.031	0.003
234	19.50	0.13	0.035	(0.180)	0.031	0.003
235	19.58	0.10	0.026	(0.179)	0.023	0.003
236	19.67	0.10	0.026	(0.178)	0.023	0.003
237	19.75	0.10	0.026	(0.177)	0.023	0.003
238	19.83	0.07	0.017	(0.177)	0.016	0.002
239	19.92	0.07	0.017	(0.176)	0.016	0.002
240	20.00	0.07	0.017	(0.175)	0.016	0.002
241	20.08	0.10	0.026	(0.174)	0.023	0.003
242	20.17	0.10	0.026	(0.174)	0.023	0.003
243	20.25	0.10	0.026	(0.173)	0.023	0.003
244	20.33	0.10	0.026	(0.172)	0.023	0.003
245	20.42	0.10	0.026	(0.171)	0.023	0.003
246	20.50	0.10	0.026	(0.171)	0.023	0.003
247	20.58	0.10	0.026	(0.170)	0.023	0.003
248	20.67	0.10	0.026	(0.169)	0.023	0.003
249	20.75	0.10	0.026	(0.168)	0.023	0.003
250	20.83	0.07	0.017	(0.168)	0.016	0.002
251	20.92	0.07	0.017	(0.167)	0.016	0.002
252	21.00	0.07	0.017	(0.166)	0.016	0.002
253	21.08	0.10	0.026	(0.166)	0.023	0.003
254	21.17	0.10	0.026	(0.165)	0.023	0.003

255	21.25	0.10	0.026	(0.165)	0.023	0.003
256	21.33	0.07	0.017	(0.164)	0.016	0.002
257	21.42	0.07	0.017	(0.163)	0.016	0.002
258	21.50	0.07	0.017	(0.163)	0.016	0.002
259	21.58	0.10	0.026	(0.162)	0.023	0.003
260	21.67	0.10	0.026	(0.161)	0.023	0.003
261	21.75	0.10	0.026	(0.161)	0.023	0.003
262	21.83	0.07	0.017	(0.160)	0.016	0.002
263	21.92	0.07	0.017	(0.160)	0.016	0.002
264	22.00	0.07	0.017	(0.159)	0.016	0.002
265	22.08	0.10	0.026	(0.159)	0.023	0.003
266	22.17	0.10	0.026	(0.158)	0.023	0.003
267	22.25	0.10	0.026	(0.158)	0.023	0.003
268	22.33	0.07	0.017	(0.157)	0.016	0.002
269	22.42	0.07	0.017	(0.157)	0.016	0.002
270	22.50	0.07	0.017	(0.156)	0.016	0.002
271	22.58	0.07	0.017	(0.156)	0.016	0.002
272	22.67	0.07	0.017	(0.155)	0.016	0.002
273	22.75	0.07	0.017	(0.155)	0.016	0.002
274	22.83	0.07	0.017	(0.155)	0.016	0.002
275	22.92	0.07	0.017	(0.154)	0.016	0.002
276	23.00	0.07	0.017	(0.154)	0.016	0.002
277	23.08	0.07	0.017	(0.153)	0.016	0.002
278	23.17	0.07	0.017	(0.153)	0.016	0.002
279	23.25	0.07	0.017	(0.153)	0.016	0.002
280	23.33	0.07	0.017	(0.152)	0.016	0.002
281	23.42	0.07	0.017	(0.152)	0.016	0.002
282	23.50	0.07	0.017	(0.152)	0.016	0.002
283	23.58	0.07	0.017	(0.152)	0.016	0.002
284	23.67	0.07	0.017	(0.151)	0.016	0.002
285	23.75	0.07	0.017	(0.151)	0.016	0.002
286	23.83	0.07	0.017	(0.151)	0.016	0.002
287	23.92	0.07	0.017	(0.151)	0.016	0.002
288	24.00	0.07	0.017	(0.151)	0.016	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.6

Flood volume = Effective rainfall 0.22(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 1.94(In)
Total soil loss = 0.904(Ac.Ft)
Total rainfall = 2.16(In)
Flood volume = 4410.5 Cubic Feet
Total soil loss = 39384.0 Cubic Feet

Peak flow rate of this hydrograph = 0.195(CFS)

++

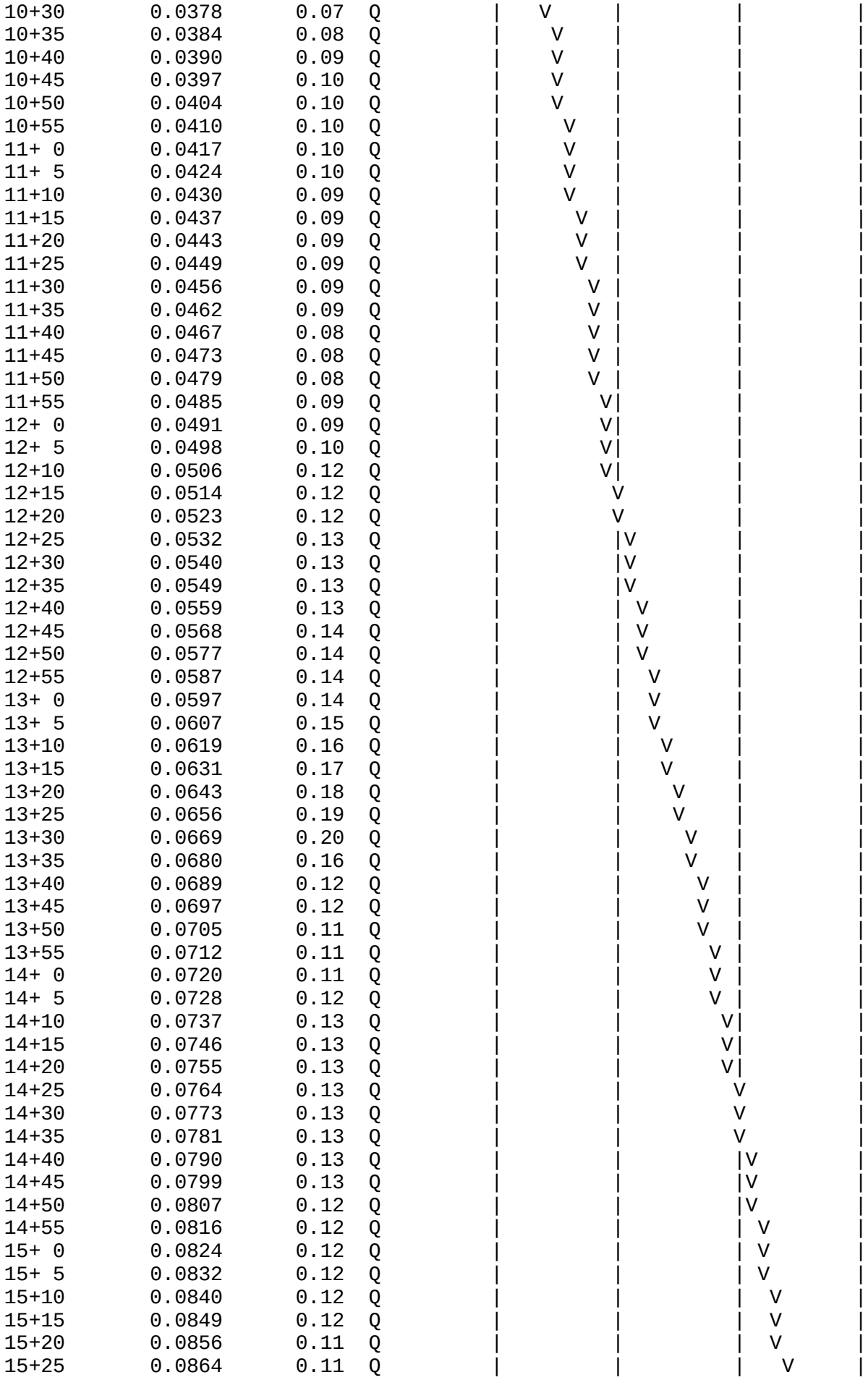
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0001	0.01	Q	|	|	|	|
0+15	0.0002	0.01	Q	|	|	|	|
0+20	0.0002	0.01	Q	|	|	|	|
0+25	0.0003	0.01	Q	|	|	|	|

```
0+30       0.0004      0.01  Q          |          |          |          |
0+35       0.0005      0.01  Q          |          |          |          |
0+40       0.0006      0.01  Q          |          |          |          |
0+45       0.0007      0.01  Q          |          |          |          |
0+50       0.0008      0.02  Q          |          |          |          |
0+55       0.0010      0.02  Q          |          |          |          |
1+ 0       0.0011      0.02  Q          |          |          |          |
1+ 5       0.0012      0.02  Q          |          |          |          |
1+10       0.0013      0.02  Q          |          |          |          |
1+15       0.0014      0.01  Q          |          |          |          |
1+20       0.0015      0.01  Q          |          |          |          |
1+25       0.0016      0.01  Q          |          |          |          |
1+30       0.0017      0.01  Q          |          |          |          |
1+35       0.0018      0.01  Q          |          |          |          |
1+40       0.0019      0.01  Q          |          |          |          |
1+45       0.0020      0.01  Q          |          |          |          |
1+50       0.0021      0.02  Q          |          |          |          |
1+55       0.0023      0.02  Q          |          |          |          |
2+ 0       0.0024      0.02  Q          |          |          |          |
2+ 5       0.0025      0.02  QV         |          |          |          |
2+10       0.0027      0.02  QV         |          |          |          |
2+15       0.0028      0.02  QV         |          |          |          |
2+20       0.0029      0.02  QV         |          |          |          |
2+25       0.0031      0.02  QV         |          |          |          |
2+30       0.0032      0.02  QV         |          |          |          |
2+35       0.0034      0.02  QV         |          |          |          |
2+40       0.0035      0.02  QV         |          |          |          |
2+45       0.0037      0.02  QV         |          |          |          |
2+50       0.0039      0.02  QV         |          |          |          |
2+55       0.0040      0.02  QV         |          |          |          |
3+ 0       0.0042      0.02  QV         |          |          |          |
3+ 5       0.0044      0.02  QV         |          |          |          |
3+10       0.0045      0.02  QV         |          |          |          |
3+15       0.0047      0.02  QV         |          |          |          |
3+20       0.0049      0.02  QV         |          |          |          |
3+25       0.0050      0.02  QV         |          |          |          |
3+30       0.0052      0.02  Q V        |          |          |          |
3+35       0.0054      0.02  Q V        |          |          |          |
3+40       0.0055      0.02  Q V        |          |          |          |
3+45       0.0057      0.02  Q V        |          |          |          |
3+50       0.0059      0.03  Q V        |          |          |          |
3+55       0.0061      0.03  Q V        |          |          |          |
4+ 0       0.0063      0.03  Q V        |          |          |          |
4+ 5       0.0065      0.03  Q V        |          |          |          |
4+10       0.0067      0.03  Q V        |          |          |          |
4+15       0.0069      0.03  Q V        |          |          |          |
4+20       0.0071      0.03  Q V        |          |          |          |
4+25       0.0073      0.03  Q V        |          |          |          |
4+30       0.0076      0.03  Q V        |          |          |          |
4+35       0.0078      0.03  Q  V       |          |          |          |
4+40       0.0080      0.03  Q  V       |          |          |          |
4+45       0.0083      0.03  Q  V       |          |          |          |
4+50       0.0085      0.04  Q  V       |          |          |          |
4+55       0.0088      0.04  Q  V       |          |          |          |
5+ 0       0.0090      0.04  Q  V       |          |          |          |
5+ 5       0.0093      0.03  Q  V       |          |          |          |
5+10       0.0095      0.03  Q  V       |          |          |          |
5+15       0.0097      0.03  Q  V       |          |          |          |
5+20       0.0099      0.03  Q  V       |          |          |          |
5+25       0.0101      0.03  Q   V      |          |          |          |
```

5+30	0.0104	0.03	Q	V	|	|	|	|
5+35	0.0106	0.04	Q	V	|	|	|	|
5+40	0.0109	0.04	Q	V	|	|	|	|
5+45	0.0112	0.04	Q	V	|	|	|	|
5+50	0.0114	0.04	Q	V	|	|	|	|
5+55	0.0117	0.04	Q	V	|	|	|	|
6+ 0	0.0120	0.04	Q	V	|	|	|	|
6+ 5	0.0122	0.04	Q	V	|	|	|	|
6+10	0.0125	0.04	Q	V	|	|	|	|
6+15	0.0128	0.04	Q	V	|	|	|	|
6+20	0.0131	0.04	Q	V	|	|	|	|
6+25	0.0134	0.04	Q	V	|	|	|	|
6+30	0.0137	0.04	Q	V	|	|	|	|
6+35	0.0141	0.05	Q	V	|	|	|	|
6+40	0.0144	0.05	Q	V	|	|	|	|
6+45	0.0147	0.05	Q	V	|	|	|	|
6+50	0.0151	0.05	Q	V	|	|	|	|
6+55	0.0154	0.05	Q	V	|	|	|	|
7+ 0	0.0157	0.05	Q	V	|	|	|	|
7+ 5	0.0161	0.05	Q	V	|	|	|	|
7+10	0.0164	0.05	Q	V	|	|	|	|
7+15	0.0167	0.05	Q	V	|	|	|	|
7+20	0.0171	0.05	Q	V	|	|	|	|
7+25	0.0175	0.05	Q	V	|	|	|	|
7+30	0.0178	0.05	Q	V	|	|	|	|
7+35	0.0182	0.06	Q	V	|	|	|	|
7+40	0.0186	0.06	Q	V	|	|	|	|
7+45	0.0190	0.06	Q	V	|	|	|	|
7+50	0.0194	0.06	Q	V	|	|	|	|
7+55	0.0198	0.06	Q	V	|	|	|	|
8+ 0	0.0203	0.06	Q	V	|	|	|	|
8+ 5	0.0207	0.07	Q	V	|	|	|	|
8+10	0.0212	0.07	Q	V	|	|	|	|
8+15	0.0217	0.07	Q	V	|	|	|	|
8+20	0.0222	0.07	Q	V	|	|	|	|
8+25	0.0227	0.07	Q	V	|	|	|	|
8+30	0.0232	0.07	Q	V	|	|	|	|
8+35	0.0238	0.08	Q	V	|	|	|	|
8+40	0.0243	0.08	Q	V	|	|	|	|
8+45	0.0248	0.08	Q	V	|	|	|	|
8+50	0.0254	0.08	Q	V	|	|	|	|
8+55	0.0259	0.08	Q	V	|	|	|	|
9+ 0	0.0265	0.08	Q	V	|	|	|	|
9+ 5	0.0271	0.09	Q	V	|	|	|	|
9+10	0.0277	0.09	Q	V	|	|	|	|
9+15	0.0284	0.09	Q	V	|	|	|	|
9+20	0.0290	0.09	Q	V	|	|	|	|
9+25	0.0297	0.10	Q	V	|	|	|	|
9+30	0.0304	0.10	Q	V	|	|	|	|
9+35	0.0310	0.10	Q	V	|	|	|	|
9+40	0.0317	0.10	Q	V	|	|	|	|
9+45	0.0324	0.10	Q	V	|	|	|	|
9+50	0.0332	0.10	Q	V	|	|	|	|
9+55	0.0339	0.11	Q	V	|	|	|	|
10+ 0	0.0346	0.11	Q	V	|	|	|	|
10+ 5	0.0353	0.09	Q	V	|	|	|	|
10+10	0.0358	0.08	Q	V	|	|	|	|
10+15	0.0363	0.07	Q	V	|	|	|	|
10+20	0.0368	0.07	Q	V	|	|	|	|
10+25	0.0373	0.07	Q	V	|	|	|	|



```
15+30       0.0872      0.11  Q        |          |          |   V      |
15+35       0.0879      0.10  Q        |          |          |   V      |
15+40       0.0886      0.10  Q        |          |          |   V      |
15+45       0.0892      0.09  Q        |          |          |    V     |
15+50       0.0898      0.09  Q        |          |          |    V     |
15+55       0.0905      0.09  Q        |          |          |    V     |
16+ 0       0.0911      0.09  Q        |          |          |    V     |
16+ 5       0.0915      0.06  Q        |          |          |     V    |
16+10       0.0917      0.03  Q        |          |          |     V    |
16+15       0.0919      0.02  Q        |          |          |     V    |
16+20       0.0920      0.02  Q        |          |          |     V    |
16+25       0.0922      0.02  Q        |          |          |     V    |
16+30       0.0923      0.02  Q        |          |          |     V    |
16+35       0.0924      0.02  Q        |          |          |     V    |
16+40       0.0925      0.02  Q        |          |          |     V    |
16+45       0.0926      0.01  Q        |          |          |     V    |
16+50       0.0927      0.01  Q        |          |          |     V    |
16+55       0.0928      0.01  Q        |          |          |     V    |
17+ 0       0.0929      0.01  Q        |          |          |     V    |
17+ 5       0.0931      0.02  Q        |          |          |     V    |
17+10       0.0932      0.02  Q        |          |          |     V    |
17+15       0.0934      0.02  Q        |          |          |     V    |
17+20       0.0935      0.02  Q        |          |          |     V    |
17+25       0.0937      0.02  Q        |          |          |      V   |
17+30       0.0939      0.02  Q        |          |          |      V   |
17+35       0.0941      0.02  Q        |          |          |      V   |
17+40       0.0942      0.02  Q        |          |          |      V   |
17+45       0.0944      0.02  Q        |          |          |      V   |
17+50       0.0945      0.02  Q        |          |          |      V   |
17+55       0.0947      0.02  Q        |          |          |      V   |
18+ 0       0.0948      0.02  Q        |          |          |      V   |
18+ 5       0.0949      0.02  Q        |          |          |      V   |
18+10       0.0951      0.02  Q        |          |          |      V   |
18+15       0.0952      0.02  Q        |          |          |      V   |
18+20       0.0954      0.02  Q        |          |          |      V   |
18+25       0.0955      0.02  Q        |          |          |      V   |
18+30       0.0956      0.02  Q        |          |          |      V   |
18+35       0.0957      0.02  Q        |          |          |      V   |
18+40       0.0958      0.02  Q        |          |          |      V   |
18+45       0.0959      0.01  Q        |          |          |      V   |
18+50       0.0960      0.01  Q        |          |          |      V   |
18+55       0.0961      0.01  Q        |          |          |      V   |
19+ 0       0.0962      0.01  Q        |          |          |      V   |
19+ 5       0.0963      0.01  Q        |          |          |       V  |
19+10       0.0964      0.01  Q        |          |          |       V  |
19+15       0.0964      0.01  Q        |          |          |       V  |
19+20       0.0966      0.02  Q        |          |          |       V  |
19+25       0.0967      0.02  Q        |          |          |       V  |
19+30       0.0968      0.02  Q        |          |          |       V  |
19+35       0.0969      0.02  Q        |          |          |       V  |
19+40       0.0971      0.02  Q        |          |          |       V  |
19+45       0.0972      0.01  Q        |          |          |       V  |
19+50       0.0972      0.01  Q        |          |          |       V  |
19+55       0.0973      0.01  Q        |          |          |       V  |
20+ 0       0.0974      0.01  Q        |          |          |       V  |
20+ 5       0.0975      0.01  Q        |          |          |       V  |
20+10       0.0976      0.01  Q        |          |          |       V  |
20+15       0.0977      0.01  Q        |          |          |       V  |
20+20       0.0978      0.01  Q        |          |          |       V  |
20+25       0.0979      0.01  Q        |          |          |       V  |
```

20+30	0.0980	0.01	Q	|	|	|	V |
20+35	0.0981	0.01	Q	|	|	|	V |
20+40	0.0982	0.01	Q	|	|	|	V |
20+45	0.0983	0.01	Q	|	|	|	V |
20+50	0.0983	0.01	Q	|	|	|	V |
20+55	0.0984	0.01	Q	|	|	|	V |
21+ 0	0.0985	0.01	Q	|	|	|	V |
21+ 5	0.0986	0.01	Q	|	|	|	V |
21+10	0.0987	0.01	Q	|	|	|	V |
21+15	0.0988	0.01	Q	|	|	|	V|
21+20	0.0988	0.01	Q	|	|	|	V|
21+25	0.0989	0.01	Q	|	|	|	V|
21+30	0.0990	0.01	Q	|	|	|	V|
21+35	0.0991	0.01	Q	|	|	|	V|
21+40	0.0992	0.01	Q	|	|	|	V|
21+45	0.0993	0.01	Q	|	|	|	V|
21+50	0.0994	0.01	Q	|	|	|	V|
21+55	0.0994	0.01	Q	|	|	|	V|
22+ 0	0.0995	0.01	Q	|	|	|	V|
22+ 5	0.0996	0.01	Q	|	|	|	V|
22+10	0.0997	0.01	Q	|	|	|	V|
22+15	0.0998	0.01	Q	|	|	|	V|
22+20	0.0999	0.01	Q	|	|	|	V|
22+25	0.0999	0.01	Q	|	|	|	V|
22+30	0.1000	0.01	Q	|	|	|	V|
22+35	0.1001	0.01	Q	|	|	|	V|
22+40	0.1001	0.01	Q	|	|	|	V|
22+45	0.1002	0.01	Q	|	|	|	V|
22+50	0.1003	0.01	Q	|	|	|	V|
22+55	0.1003	0.01	Q	|	|	|	V|
23+ 0	0.1004	0.01	Q	|	|	|	V|
23+ 5	0.1005	0.01	Q	|	|	|	V|
23+10	0.1005	0.01	Q	|	|	|	V|
23+15	0.1006	0.01	Q	|	|	|	V|
23+20	0.1007	0.01	Q	|	|	|	V|
23+25	0.1007	0.01	Q	|	|	|	V|
23+30	0.1008	0.01	Q	|	|	|	V|
23+35	0.1009	0.01	Q	|	|	|	V|
23+40	0.1009	0.01	Q	|	|	|	V|
23+45	0.1010	0.01	Q	|	|	|	V|
23+50	0.1011	0.01	Q	|	|	|	V|
23+55	0.1011	0.01	Q	|	|	|	V|
24+ 0	0.1012	0.01	Q	|	|	|	V|
24+ 5	0.1012	0.01	Q	|	|	|	V|
24+10	0.1012	0.00	Q	|	|	|	V|
24+15	0.1013	0.00	Q	|	|	|	V|
24+20	0.1013	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX110.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
10-YR
1-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.50	2.79

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.20	6.70

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
		Sum = 100.000	Sum=	5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	3.40	0.321	0.151	(	0.289)	0.171
2	0.17	4.70	0.444	0.151	(	0.400)	0.294
3	0.25	4.70	0.444	0.151	(	0.400)	0.294
4	0.33	5.10	0.482	0.151	(	0.434)	0.332
5	0.42	5.80	0.548	0.151	(	0.494)	0.398
6	0.50	5.90	0.558	0.151	(	0.502)	0.407
7	0.58	7.10	0.671	0.151	(	0.604)	0.521
8	0.67	8.70	0.823	0.151	(	0.740)	0.672
9	0.75	13.20	1.248	0.151	(	1.123)	1.098
10	0.83	29.70	2.808	0.151	(	2.527)	2.658
11	0.92	7.70	0.728	0.151	(	0.655)	0.578
12	1.00	4.00	0.378	0.151	(	0.340)	0.228

(Loss Rate Not Used)
Sum = 100.0 Sum = 7.6
Flood volume = Effective rainfall 0.64(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.070(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 12911.3 Cubic Feet
Total soil loss = 3048.8 Cubic Feet

Peak flow rate of this hydrograph = 9.595(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0029	0.41	VQ				
0+10	0.0106	1.13	V Q				
0+15	0.0211	1.52	V Q				
0+20	0.0328	1.70	V Q				
0+25	0.0465	1.99	VQ				
0+30	0.0617	2.20	Q				
0+35	0.0792	2.54	Q				
0+40	0.1013	3.21	QV				
0+45	0.1334	4.67	Q				
0+50	0.1995	9.60	V				Q
0+55	0.2588	8.61	Q				
1+ 0	0.2833	3.54	Q				V
1+ 5	0.2931	1.43	Q				V
1+10	0.2958	0.39	Q				V
1+15	0.2963	0.08	Q				V
1+20	0.2964	0.01	Q				V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX310.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
10-YR
3-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.80	4.46

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.80	10.04

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 1.211(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.211(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
		Sum =	100.000 Sum=	5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.189	0.151	(	0.170)	0.038
2	0.17	1.30	0.189	0.151	(	0.170)	0.038
3	0.25	1.10	0.160	(0.151)		0.144	0.016
4	0.33	1.50	0.218	0.151	(	0.196)	0.068
5	0.42	1.50	0.218	0.151	(	0.196)	0.068
6	0.50	1.80	0.262	0.151	(	0.235)	0.111
7	0.58	1.50	0.218	0.151	(	0.196)	0.068
8	0.67	1.80	0.262	0.151	(	0.235)	0.111
9	0.75	1.80	0.262	0.151	(	0.235)	0.111
10	0.83	1.50	0.218	0.151	(	0.196)	0.068
11	0.92	1.60	0.233	0.151	(	0.209)	0.082
12	1.00	1.80	0.262	0.151	(	0.235)	0.111
13	1.08	2.20	0.320	0.151	(	0.288)	0.169
14	1.17	2.20	0.320	0.151	(	0.288)	0.169

15	1.25	2.20	0.320	0.151	(0.288)	0.169	
16	1.33	2.00	0.291	0.151	(0.262)	0.140	
17	1.42	2.60	0.378	0.151	(0.340)	0.227	
18	1.50	2.70	0.392	0.151	(0.353)	0.242	
19	1.58	2.40	0.349	0.151	(0.314)	0.198	
20	1.67	2.70	0.392	0.151	(0.353)	0.242	
21	1.75	3.30	0.480	0.151	(0.432)	0.329	
22	1.83	3.10	0.451	0.151	(0.406)	0.300	
23	1.92	2.90	0.422	0.151	(0.379)	0.271	
24	2.00	3.00	0.436	0.151	(0.392)	0.286	
25	2.08	3.10	0.451	0.151	(0.406)	0.300	
26	2.17	4.20	0.611	0.151	(0.549)	0.460	
27	2.25	5.00	0.727	0.151	(0.654)	0.576	
28	2.33	3.50	0.509	0.151	(0.458)	0.358	
29	2.42	6.80	0.988	0.151	(0.890)	0.838	
30	2.50	7.30	1.061	0.151	(0.955)	0.911	
31	2.58	8.20	1.192	0.151	(1.073)	1.041	
32	2.67	5.90	0.858	0.151	(0.772)	0.707	
33	2.75	2.00	0.291	0.151	(0.262)	0.140	
34	2.83	1.80	0.262	0.151	(0.235)	0.111	
35	2.92	1.80	0.262	0.151	(0.235)	0.111	
36	3.00	0.60	0.087	(0.151)	0.078	0.009	

(Loss Rate Not Used)

Sum = 100.0 Sum = 9.2

Flood volume = Effective rainfall 0.77(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.4(Ac.Ft)
Total soil loss = 0.45(In)
Total soil loss = 0.207(Ac.Ft)
Total rainfall = 1.21(In)
Flood volume = 15523.2 Cubic Feet
Total soil loss = 9013.8 Cubic Feet

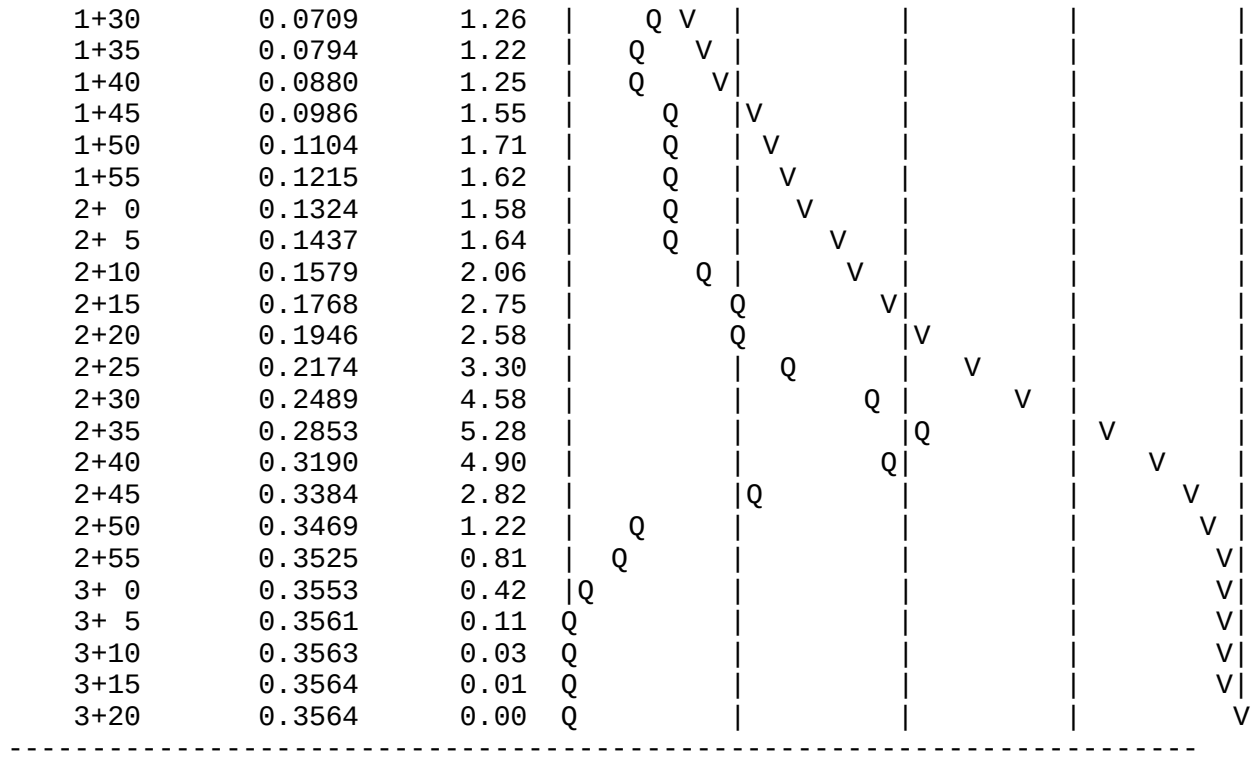
Peak flow rate of this hydrograph = 5.277(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0006	0.09	Q	|	|	|	|
0+10	0.0019	0.19	Q	|	|	|	|
0+15	0.0030	0.15	Q	|	|	|	|
0+20	0.0046	0.23	Q	|	|	|	|
0+25	0.0070	0.35	VQ	|	|	|	|
0+30	0.0102	0.47	|Q	|	|	|	|
0+35	0.0135	0.48	|Q	|	|	|	|
0+40	0.0170	0.51	|VQ	|	|	|	|
0+45	0.0212	0.60	| Q	|	|	|	|
0+50	0.0247	0.51	| Q	|	|	|	|
0+55	0.0278	0.45	|Q V	|	|	|	|
1+ 0	0.0314	0.53	| QV	|	|	|	|
1+ 5	0.0366	0.74	| Q V	|	|	|	|
1+10	0.0428	0.90	| QV	|	|	|	|
1+15	0.0492	0.94	| Q V	|	|	|	|
1+20	0.0552	0.88	| Q V	|	|	|	|
1+25	0.0623	1.02	| Q V	|	|	|	|


1+30 0.0709 1.26
1+35 0.0794 1.22
1+40 0.0880 1.25
1+45 0.0986 1.55
1+50 0.1104 1.71
1+55 0.1215 1.62
2+ 0 0.1324 1.58
2+ 5 0.1437 1.64
2+10 0.1579 2.06
2+15 0.1768 2.75
2+20 0.1946 2.58
2+25 0.2174 3.30
2+30 0.2489 4.58
2+35 0.2853 5.28
2+40 0.3190 4.90
2+45 0.3384 2.82
2+50 0.3469 1.22
2+55 0.3525 0.81
3+ 0 0.3553 0.42
3+ 5 0.3561 0.11
3+10 0.3563 0.03
3+15 0.3564 0.01
3+20 0.3564 0.00

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX610.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
10-YR
6-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.00	5.58

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	2.50	13.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.617(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.617(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.50	0.097	(0.151)		0.087	0.010
2	0.17	0.60	0.116	(0.151)		0.105	0.012
3	0.25	0.60	0.116	(0.151)		0.105	0.012
4	0.33	0.60	0.116	(0.151)		0.105	0.012
5	0.42	0.60	0.116	(0.151)		0.105	0.012
6	0.50	0.70	0.136	(0.151)		0.122	0.014
7	0.58	0.70	0.136	(0.151)		0.122	0.014
8	0.67	0.70	0.136	(0.151)		0.122	0.014
9	0.75	0.70	0.136	(0.151)		0.122	0.014
10	0.83	0.70	0.136	(0.151)		0.122	0.014
11	0.92	0.70	0.136	(0.151)		0.122	0.014
12	1.00	0.80	0.155	(0.151)		0.140	0.016
13	1.08	0.80	0.155	(0.151)		0.140	0.016
14	1.17	0.80	0.155	(0.151)		0.140	0.016

15	1.25	0.80	0.155	(0.151)	0.140	0.016
16	1.33	0.80	0.155	(0.151)	0.140	0.016
17	1.42	0.80	0.155	(0.151)	0.140	0.016
18	1.50	0.80	0.155	(0.151)	0.140	0.016
19	1.58	0.80	0.155	(0.151)	0.140	0.016
20	1.67	0.80	0.155	(0.151)	0.140	0.016
21	1.75	0.80	0.155	(0.151)	0.140	0.016
22	1.83	0.80	0.155	(0.151)	0.140	0.016
23	1.92	0.80	0.155	(0.151)	0.140	0.016
24	2.00	0.90	0.175	0.151	(0.157)	0.024
25	2.08	0.80	0.155	(0.151)	0.140	0.016
26	2.17	0.90	0.175	0.151	(0.157)	0.024
27	2.25	0.90	0.175	0.151	(0.157)	0.024
28	2.33	0.90	0.175	0.151	(0.157)	0.024
29	2.42	0.90	0.175	0.151	(0.157)	0.024
30	2.50	0.90	0.175	0.151	(0.157)	0.024
31	2.58	0.90	0.175	0.151	(0.157)	0.024
32	2.67	0.90	0.175	0.151	(0.157)	0.024
33	2.75	1.00	0.194	0.151	(0.175)	0.044
34	2.83	1.00	0.194	0.151	(0.175)	0.044
35	2.92	1.00	0.194	0.151	(0.175)	0.044
36	3.00	1.00	0.194	0.151	(0.175)	0.044
37	3.08	1.00	0.194	0.151	(0.175)	0.044
38	3.17	1.10	0.213	0.151	(0.192)	0.063
39	3.25	1.10	0.213	0.151	(0.192)	0.063
40	3.33	1.10	0.213	0.151	(0.192)	0.063
41	3.42	1.20	0.233	0.151	(0.210)	0.082
42	3.50	1.30	0.252	0.151	(0.227)	0.102
43	3.58	1.40	0.272	0.151	(0.245)	0.121
44	3.67	1.40	0.272	0.151	(0.245)	0.121
45	3.75	1.50	0.291	0.151	(0.262)	0.141
46	3.83	1.50	0.291	0.151	(0.262)	0.141
47	3.92	1.60	0.310	0.151	(0.279)	0.160
48	4.00	1.60	0.310	0.151	(0.279)	0.160
49	4.08	1.70	0.330	0.151	(0.297)	0.179
50	4.17	1.80	0.349	0.151	(0.314)	0.199
51	4.25	1.90	0.369	0.151	(0.332)	0.218
52	4.33	2.00	0.388	0.151	(0.349)	0.238
53	4.42	2.10	0.408	0.151	(0.367)	0.257
54	4.50	2.10	0.408	0.151	(0.367)	0.257
55	4.58	2.20	0.427	0.151	(0.384)	0.276
56	4.67	2.30	0.446	0.151	(0.402)	0.296
57	4.75	2.40	0.466	0.151	(0.419)	0.315
58	4.83	2.40	0.466	0.151	(0.419)	0.315
59	4.92	2.50	0.485	0.151	(0.437)	0.335
60	5.00	2.60	0.505	0.151	(0.454)	0.354
61	5.08	3.10	0.602	0.151	(0.541)	0.451
62	5.17	3.60	0.699	0.151	(0.629)	0.548
63	5.25	3.90	0.757	0.151	(0.681)	0.606
64	5.33	4.20	0.815	0.151	(0.734)	0.664
65	5.42	4.70	0.912	0.151	(0.821)	0.762
66	5.50	5.60	1.087	0.151	(0.978)	0.936
67	5.58	1.90	0.369	0.151	(0.332)	0.218
68	5.67	0.90	0.175	0.151	(0.157)	0.024
69	5.75	0.60	0.116	(0.151)	0.105	0.012
70	5.83	0.50	0.097	(0.151)	0.087	0.010
71	5.92	0.30	0.058	(0.151)	0.052	0.006
72	6.00	0.20	0.039	(0.151)	0.035	0.004
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	9.4

Flood volume = Effective rainfall 0.79(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.4(Ac.Ft)
Total soil loss = 0.83(In)
Total soil loss = 0.386(Ac.Ft)
Total rainfall = 1.62(In)
Flood volume = 15945.0 Cubic Feet
Total soil loss = 16809.6 Cubic Feet

Peak flow rate of this hydrograph = 4.617(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 2.5 5.0 7.5 10.0
0+ 5	0.0002	0.02	Q
0+10	0.0005	0.05	Q
0+15	0.0009	0.06	Q
0+20	0.0014	0.06	Q
0+25	0.0018	0.07	Q
0+30	0.0023	0.07	Q
0+35	0.0028	0.07	Q
0+40	0.0034	0.08	Q
0+45	0.0039	0.08	Q
0+50	0.0044	0.08	Q
0+55	0.0049	0.08	Q
1+ 0	0.0055	0.08	Q
1+ 5	0.0061	0.09	Q
1+10	0.0067	0.09	Q
1+15	0.0073	0.09	Q
1+20	0.0079	0.09	Q
1+25	0.0085	0.09	Q
1+30	0.0091	0.09	Q
1+35	0.0097	0.09	QV
1+40	0.0103	0.09	QV
1+45	0.0109	0.09	QV
1+50	0.0115	0.09	QV
1+55	0.0121	0.09	QV
2+ 0	0.0128	0.11	QV
2+ 5	0.0136	0.11	QV
2+10	0.0144	0.11	QV
2+15	0.0153	0.13	QV
2+20	0.0162	0.13	QV
2+25	0.0171	0.14	QV
2+30	0.0181	0.14	QV
2+35	0.0190	0.14	Q V
2+40	0.0199	0.14	Q V
2+45	0.0212	0.18	Q V
2+50	0.0228	0.23	Q V
2+55	0.0244	0.24	Q V
3+ 0	0.0261	0.24	Q V
3+ 5	0.0278	0.24	Q V
3+10	0.0298	0.29	|Q V
3+15	0.0321	0.34	|Q V
3+20	0.0345	0.35	|Q V
3+25	0.0373	0.40	|Q V

3+30	0.0407	0.50	Q V				
3+35	0.0448	0.60	Q V				
3+40	0.0494	0.66	Q V				
3+45	0.0544	0.72	Q V				
3+50	0.0597	0.78	Q V				
3+55	0.0654	0.83	Q V				
4+ 0	0.0715	0.88	Q V				
4+ 5	0.0780	0.94	Q V				
4+10	0.0852	1.04	Q V				
4+15	0.0931	1.15	Q V				
4+20	0.1017	1.25	Q V				
4+25	0.1111	1.36	Q V				
4+30	0.1209	1.43	Q V				
4+35	0.1312	1.49	Q V				
4+40	0.1421	1.59	Q V				
4+45	0.1537	1.69	Q V				
4+50	0.1658	1.75	Q V				
4+55	0.1783	1.81	Q V				
5+ 0	0.1915	1.91	Q V				
5+ 5	0.2067	2.21	Q V				
5+10	0.2252	2.69	Q V				
5+15	0.2468	3.13	Q V				
5+20	0.2707	3.48	Q V				
5+25	0.2977	3.91	Q V				
5+30	0.3294	4.62	Q V				
5+35	0.3526	3.37	Q V				
5+40	0.3612	1.25	Q V				
5+45	0.3641	0.42	Q V				
5+50	0.3653	0.16	Q V				
5+55	0.3657	0.06	Q V				
6+ 0	0.3659	0.03	Q V				
6+ 5	0.3660	0.01	Q V				
6+10	0.3660	0.00	Q V				
6+15	0.3660	0.00	Q V				
6+20	0.3660	0.00	Q V				

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX2410.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
10-YR
24-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.60	8.93

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	4.00	22.32

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 2.587(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.587(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.07	0.021	(0.267)		0.019	0.002
2	0.17	0.07	0.021	(0.266)		0.019	0.002
3	0.25	0.07	0.021	(0.265)		0.019	0.002
4	0.33	0.10	0.031	(0.264)		0.028	0.003
5	0.42	0.10	0.031	(0.263)		0.028	0.003
6	0.50	0.10	0.031	(0.262)		0.028	0.003
7	0.58	0.10	0.031	(0.261)		0.028	0.003
8	0.67	0.10	0.031	(0.260)		0.028	0.003
9	0.75	0.10	0.031	(0.259)		0.028	0.003
10	0.83	0.13	0.041	(0.258)		0.037	0.004
11	0.92	0.13	0.041	(0.257)		0.037	0.004
12	1.00	0.13	0.041	(0.256)		0.037	0.004
13	1.08	0.10	0.031	(0.255)		0.028	0.003
14	1.17	0.10	0.031	(0.254)		0.028	0.003

15	1.25	0.10	0.031	(0.253)	0.028	0.003
16	1.33	0.10	0.031	(0.252)	0.028	0.003
17	1.42	0.10	0.031	(0.251)	0.028	0.003
18	1.50	0.10	0.031	(0.250)	0.028	0.003
19	1.58	0.10	0.031	(0.249)	0.028	0.003
20	1.67	0.10	0.031	(0.248)	0.028	0.003
21	1.75	0.10	0.031	(0.247)	0.028	0.003
22	1.83	0.13	0.041	(0.246)	0.037	0.004
23	1.92	0.13	0.041	(0.245)	0.037	0.004
24	2.00	0.13	0.041	(0.244)	0.037	0.004
25	2.08	0.13	0.041	(0.243)	0.037	0.004
26	2.17	0.13	0.041	(0.242)	0.037	0.004
27	2.25	0.13	0.041	(0.241)	0.037	0.004
28	2.33	0.13	0.041	(0.240)	0.037	0.004
29	2.42	0.13	0.041	(0.239)	0.037	0.004
30	2.50	0.13	0.041	(0.238)	0.037	0.004
31	2.58	0.17	0.052	(0.237)	0.047	0.005
32	2.67	0.17	0.052	(0.236)	0.047	0.005
33	2.75	0.17	0.052	(0.235)	0.047	0.005
34	2.83	0.17	0.052	(0.234)	0.047	0.005
35	2.92	0.17	0.052	(0.233)	0.047	0.005
36	3.00	0.17	0.052	(0.232)	0.047	0.005
37	3.08	0.17	0.052	(0.231)	0.047	0.005
38	3.17	0.17	0.052	(0.230)	0.047	0.005
39	3.25	0.17	0.052	(0.229)	0.047	0.005
40	3.33	0.17	0.052	(0.228)	0.047	0.005
41	3.42	0.17	0.052	(0.227)	0.047	0.005
42	3.50	0.17	0.052	(0.226)	0.047	0.005
43	3.58	0.17	0.052	(0.225)	0.047	0.005
44	3.67	0.17	0.052	(0.224)	0.047	0.005
45	3.75	0.17	0.052	(0.223)	0.047	0.005
46	3.83	0.20	0.062	(0.222)	0.056	0.006
47	3.92	0.20	0.062	(0.221)	0.056	0.006
48	4.00	0.20	0.062	(0.221)	0.056	0.006
49	4.08	0.20	0.062	(0.220)	0.056	0.006
50	4.17	0.20	0.062	(0.219)	0.056	0.006
51	4.25	0.20	0.062	(0.218)	0.056	0.006
52	4.33	0.23	0.072	(0.217)	0.065	0.007
53	4.42	0.23	0.072	(0.216)	0.065	0.007
54	4.50	0.23	0.072	(0.215)	0.065	0.007
55	4.58	0.23	0.072	(0.214)	0.065	0.007
56	4.67	0.23	0.072	(0.213)	0.065	0.007
57	4.75	0.23	0.072	(0.212)	0.065	0.007
58	4.83	0.27	0.083	(0.211)	0.075	0.008
59	4.92	0.27	0.083	(0.210)	0.075	0.008
60	5.00	0.27	0.083	(0.209)	0.075	0.008
61	5.08	0.20	0.062	(0.209)	0.056	0.006
62	5.17	0.20	0.062	(0.208)	0.056	0.006
63	5.25	0.20	0.062	(0.207)	0.056	0.006
64	5.33	0.23	0.072	(0.206)	0.065	0.007
65	5.42	0.23	0.072	(0.205)	0.065	0.007
66	5.50	0.23	0.072	(0.204)	0.065	0.007
67	5.58	0.27	0.083	(0.203)	0.075	0.008
68	5.67	0.27	0.083	(0.202)	0.075	0.008
69	5.75	0.27	0.083	(0.201)	0.075	0.008
70	5.83	0.27	0.083	(0.200)	0.075	0.008
71	5.92	0.27	0.083	(0.200)	0.075	0.008
72	6.00	0.27	0.083	(0.199)	0.075	0.008
73	6.08	0.30	0.093	(0.198)	0.084	0.009
74	6.17	0.30	0.093	(0.197)	0.084	0.009

75	6.25	0.30	0.093	(0.196)	0.084	0.009
76	6.33	0.30	0.093	(0.195)	0.084	0.009
77	6.42	0.30	0.093	(0.194)	0.084	0.009
78	6.50	0.30	0.093	(0.193)	0.084	0.009
79	6.58	0.33	0.103	(0.193)	0.093	0.010
80	6.67	0.33	0.103	(0.192)	0.093	0.010
81	6.75	0.33	0.103	(0.191)	0.093	0.010
82	6.83	0.33	0.103	(0.190)	0.093	0.010
83	6.92	0.33	0.103	(0.189)	0.093	0.010
84	7.00	0.33	0.103	(0.188)	0.093	0.010
85	7.08	0.33	0.103	(0.187)	0.093	0.010
86	7.17	0.33	0.103	(0.187)	0.093	0.010
87	7.25	0.33	0.103	(0.186)	0.093	0.010
88	7.33	0.37	0.114	(0.185)	0.102	0.011
89	7.42	0.37	0.114	(0.184)	0.102	0.011
90	7.50	0.37	0.114	(0.183)	0.102	0.011
91	7.58	0.40	0.124	(0.182)	0.112	0.012
92	7.67	0.40	0.124	(0.181)	0.112	0.012
93	7.75	0.40	0.124	(0.181)	0.112	0.012
94	7.83	0.43	0.135	(0.180)	0.121	0.013
95	7.92	0.43	0.135	(0.179)	0.121	0.013
96	8.00	0.43	0.135	(0.178)	0.121	0.013
97	8.08	0.50	0.155	(0.177)	0.140	0.016
98	8.17	0.50	0.155	(0.176)	0.140	0.016
99	8.25	0.50	0.155	(0.176)	0.140	0.016
100	8.33	0.50	0.155	(0.175)	0.140	0.016
101	8.42	0.50	0.155	(0.174)	0.140	0.016
102	8.50	0.50	0.155	(0.173)	0.140	0.016
103	8.58	0.53	0.166	(0.172)	0.149	0.017
104	8.67	0.53	0.166	(0.172)	0.149	0.017
105	8.75	0.53	0.166	(0.171)	0.149	0.017
106	8.83	0.57	0.176	(0.170)	0.158	0.018
107	8.92	0.57	0.176	(0.169)	0.158	0.018
108	9.00	0.57	0.176	(0.168)	0.158	0.018
109	9.08	0.63	0.197	0.168	(0.177)	0.029
110	9.17	0.63	0.197	0.167	(0.177)	0.030
111	9.25	0.63	0.197	0.166	(0.177)	0.031
112	9.33	0.67	0.207	0.165	(0.186)	0.042
113	9.42	0.67	0.207	0.164	(0.186)	0.043
114	9.50	0.67	0.207	0.164	(0.186)	0.043
115	9.58	0.70	0.217	0.163	(0.196)	0.055
116	9.67	0.70	0.217	0.162	(0.196)	0.055
117	9.75	0.70	0.217	0.161	(0.196)	0.056
118	9.83	0.73	0.228	0.160	(0.205)	0.067
119	9.92	0.73	0.228	0.160	(0.205)	0.068
120	10.00	0.73	0.228	0.159	(0.205)	0.069
121	10.08	0.50	0.155	(0.158)	0.140	0.016
122	10.17	0.50	0.155	(0.157)	0.140	0.016
123	10.25	0.50	0.155	(0.157)	0.140	0.016
124	10.33	0.50	0.155	(0.156)	0.140	0.016
125	10.42	0.50	0.155	(0.155)	0.140	0.016
126	10.50	0.50	0.155	(0.154)	0.140	0.016
127	10.58	0.67	0.207	0.154	(0.186)	0.053
128	10.67	0.67	0.207	0.153	(0.186)	0.054
129	10.75	0.67	0.207	0.152	(0.186)	0.055
130	10.83	0.67	0.207	0.151	(0.186)	0.056
131	10.92	0.67	0.207	0.151	(0.186)	0.056
132	11.00	0.67	0.207	0.150	(0.186)	0.057
133	11.08	0.63	0.197	0.149	(0.177)	0.047
134	11.17	0.63	0.197	0.148	(0.177)	0.048

135	11.25	0.63	0.197	0.148	(0.177)	0.049
136	11.33	0.63	0.197	0.147	(0.177)	0.050
137	11.42	0.63	0.197	0.146	(0.177)	0.050
138	11.50	0.63	0.197	0.146	(0.177)	0.051
139	11.58	0.57	0.176	0.145	(0.158)	0.031
140	11.67	0.57	0.176	0.144	(0.158)	0.032
141	11.75	0.57	0.176	0.143	(0.158)	0.033
142	11.83	0.60	0.186	0.143	(0.168)	0.044
143	11.92	0.60	0.186	0.142	(0.168)	0.044
144	12.00	0.60	0.186	0.141	(0.168)	0.045
145	12.08	0.83	0.259	0.141	(0.233)	0.118
146	12.17	0.83	0.259	0.140	(0.233)	0.119
147	12.25	0.83	0.259	0.139	(0.233)	0.120
148	12.33	0.87	0.269	0.138	(0.242)	0.131
149	12.42	0.87	0.269	0.138	(0.242)	0.131
150	12.50	0.87	0.269	0.137	(0.242)	0.132
151	12.58	0.93	0.290	0.136	(0.261)	0.153
152	12.67	0.93	0.290	0.136	(0.261)	0.154
153	12.75	0.93	0.290	0.135	(0.261)	0.155
154	12.83	0.97	0.300	0.134	(0.270)	0.166
155	12.92	0.97	0.300	0.134	(0.270)	0.167
156	13.00	0.97	0.300	0.133	(0.270)	0.167
157	13.08	1.13	0.352	0.132	(0.317)	0.220
158	13.17	1.13	0.352	0.132	(0.317)	0.220
159	13.25	1.13	0.352	0.131	(0.317)	0.221
160	13.33	1.13	0.352	0.130	(0.317)	0.222
161	13.42	1.13	0.352	0.130	(0.317)	0.222
162	13.50	1.13	0.352	0.129	(0.317)	0.223
163	13.58	0.77	0.238	0.128	(0.214)	0.110
164	13.67	0.77	0.238	0.128	(0.214)	0.110
165	13.75	0.77	0.238	0.127	(0.214)	0.111
166	13.83	0.77	0.238	0.126	(0.214)	0.112
167	13.92	0.77	0.238	0.126	(0.214)	0.112
168	14.00	0.77	0.238	0.125	(0.214)	0.113
169	14.08	0.90	0.279	0.124	(0.251)	0.155
170	14.17	0.90	0.279	0.124	(0.251)	0.156
171	14.25	0.90	0.279	0.123	(0.251)	0.156
172	14.33	0.87	0.269	0.122	(0.242)	0.147
173	14.42	0.87	0.269	0.122	(0.242)	0.147
174	14.50	0.87	0.269	0.121	(0.242)	0.148
175	14.58	0.87	0.269	0.121	(0.242)	0.148
176	14.67	0.87	0.269	0.120	(0.242)	0.149
177	14.75	0.87	0.269	0.119	(0.242)	0.150
178	14.83	0.83	0.259	0.119	(0.233)	0.140
179	14.92	0.83	0.259	0.118	(0.233)	0.141
180	15.00	0.83	0.259	0.118	(0.233)	0.141
181	15.08	0.80	0.248	0.117	(0.224)	0.131
182	15.17	0.80	0.248	0.116	(0.224)	0.132
183	15.25	0.80	0.248	0.116	(0.224)	0.133
184	15.33	0.77	0.238	0.115	(0.214)	0.123
185	15.42	0.77	0.238	0.115	(0.214)	0.123
186	15.50	0.77	0.238	0.114	(0.214)	0.124
187	15.58	0.63	0.197	0.113	(0.177)	0.083
188	15.67	0.63	0.197	0.113	(0.177)	0.084
189	15.75	0.63	0.197	0.112	(0.177)	0.084
190	15.83	0.63	0.197	0.112	(0.177)	0.085
191	15.92	0.63	0.197	0.111	(0.177)	0.086
192	16.00	0.63	0.197	0.111	(0.177)	0.086
193	16.08	0.13	0.041	(0.110)	0.037	0.004
194	16.17	0.13	0.041	(0.109)	0.037	0.004

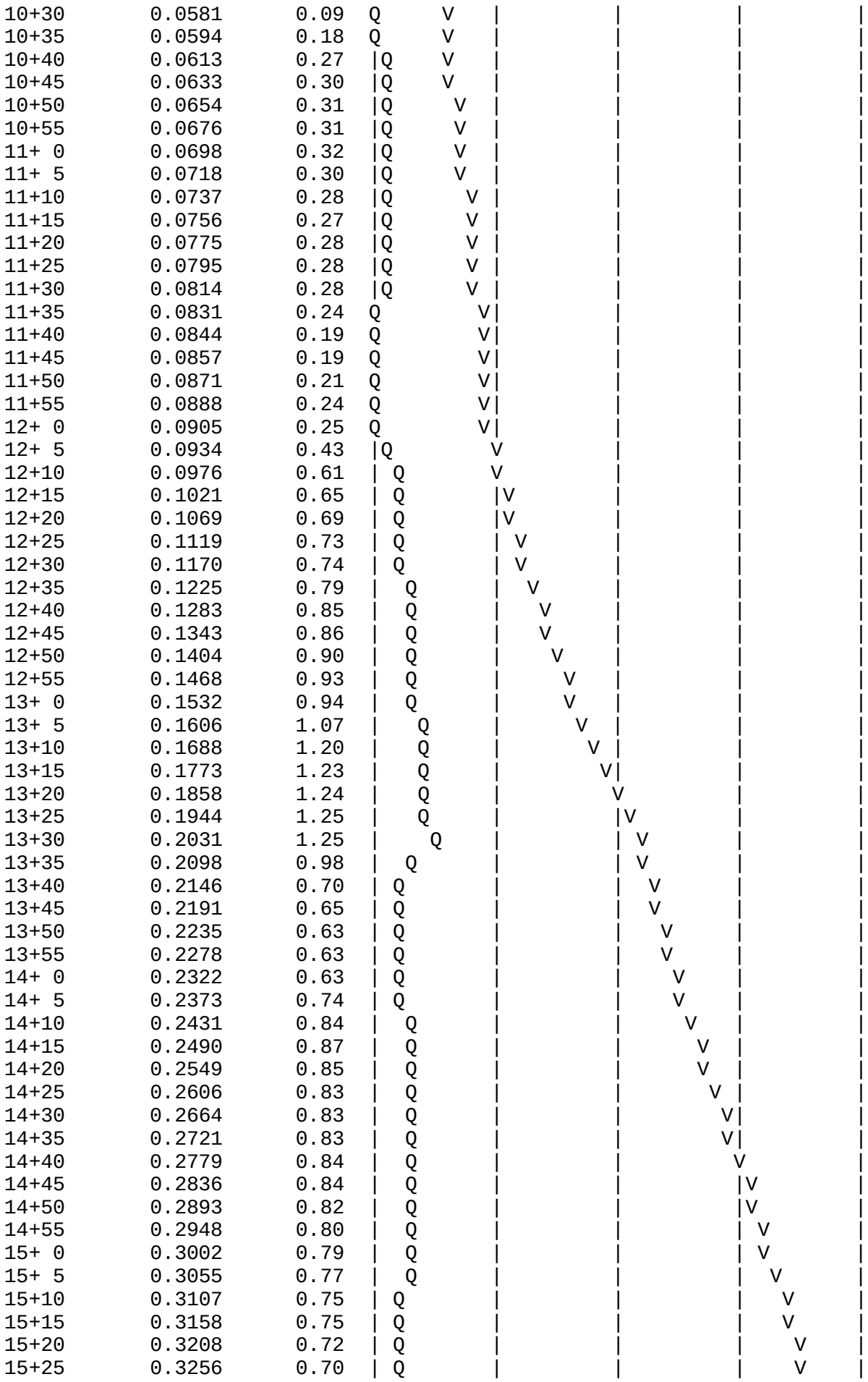
195	16.25	0.13	0.041	(0.109)	0.037	0.004
196	16.33	0.13	0.041	(0.108)	0.037	0.004
197	16.42	0.13	0.041	(0.108)	0.037	0.004
198	16.50	0.13	0.041	(0.107)	0.037	0.004
199	16.58	0.10	0.031	(0.107)	0.028	0.003
200	16.67	0.10	0.031	(0.106)	0.028	0.003
201	16.75	0.10	0.031	(0.106)	0.028	0.003
202	16.83	0.10	0.031	(0.105)	0.028	0.003
203	16.92	0.10	0.031	(0.105)	0.028	0.003
204	17.00	0.10	0.031	(0.104)	0.028	0.003
205	17.08	0.17	0.052	(0.103)	0.047	0.005
206	17.17	0.17	0.052	(0.103)	0.047	0.005
207	17.25	0.17	0.052	(0.102)	0.047	0.005
208	17.33	0.17	0.052	(0.102)	0.047	0.005
209	17.42	0.17	0.052	(0.101)	0.047	0.005
210	17.50	0.17	0.052	(0.101)	0.047	0.005
211	17.58	0.17	0.052	(0.100)	0.047	0.005
212	17.67	0.17	0.052	(0.100)	0.047	0.005
213	17.75	0.17	0.052	(0.099)	0.047	0.005
214	17.83	0.13	0.041	(0.099)	0.037	0.004
215	17.92	0.13	0.041	(0.098)	0.037	0.004
216	18.00	0.13	0.041	(0.098)	0.037	0.004
217	18.08	0.13	0.041	(0.097)	0.037	0.004
218	18.17	0.13	0.041	(0.097)	0.037	0.004
219	18.25	0.13	0.041	(0.096)	0.037	0.004
220	18.33	0.13	0.041	(0.096)	0.037	0.004
221	18.42	0.13	0.041	(0.096)	0.037	0.004
222	18.50	0.13	0.041	(0.095)	0.037	0.004
223	18.58	0.10	0.031	(0.095)	0.028	0.003
224	18.67	0.10	0.031	(0.094)	0.028	0.003
225	18.75	0.10	0.031	(0.094)	0.028	0.003
226	18.83	0.07	0.021	(0.093)	0.019	0.002
227	18.92	0.07	0.021	(0.093)	0.019	0.002
228	19.00	0.07	0.021	(0.092)	0.019	0.002
229	19.08	0.10	0.031	(0.092)	0.028	0.003
230	19.17	0.10	0.031	(0.091)	0.028	0.003
231	19.25	0.10	0.031	(0.091)	0.028	0.003
232	19.33	0.13	0.041	(0.091)	0.037	0.004
233	19.42	0.13	0.041	(0.090)	0.037	0.004
234	19.50	0.13	0.041	(0.090)	0.037	0.004
235	19.58	0.10	0.031	(0.089)	0.028	0.003
236	19.67	0.10	0.031	(0.089)	0.028	0.003
237	19.75	0.10	0.031	(0.089)	0.028	0.003
238	19.83	0.07	0.021	(0.088)	0.019	0.002
239	19.92	0.07	0.021	(0.088)	0.019	0.002
240	20.00	0.07	0.021	(0.087)	0.019	0.002
241	20.08	0.10	0.031	(0.087)	0.028	0.003
242	20.17	0.10	0.031	(0.087)	0.028	0.003
243	20.25	0.10	0.031	(0.086)	0.028	0.003
244	20.33	0.10	0.031	(0.086)	0.028	0.003
245	20.42	0.10	0.031	(0.086)	0.028	0.003
246	20.50	0.10	0.031	(0.085)	0.028	0.003
247	20.58	0.10	0.031	(0.085)	0.028	0.003
248	20.67	0.10	0.031	(0.084)	0.028	0.003
249	20.75	0.10	0.031	(0.084)	0.028	0.003
250	20.83	0.07	0.021	(0.084)	0.019	0.002
251	20.92	0.07	0.021	(0.083)	0.019	0.002
252	21.00	0.07	0.021	(0.083)	0.019	0.002
253	21.08	0.10	0.031	(0.083)	0.028	0.003
254	21.17	0.10	0.031	(0.082)	0.028	0.003

```
255  21.25     0.10      0.031       (  0.082)       0.028        0.003
256  21.33     0.07      0.021       (  0.082)       0.019        0.002
257  21.42     0.07      0.021       (  0.081)       0.019        0.002
258  21.50     0.07      0.021       (  0.081)       0.019        0.002
259  21.58     0.10      0.031       (  0.081)       0.028        0.003
260  21.67     0.10      0.031       (  0.081)       0.028        0.003
261  21.75     0.10      0.031       (  0.080)       0.028        0.003
262  21.83     0.07      0.021       (  0.080)       0.019        0.002
263  21.92     0.07      0.021       (  0.080)       0.019        0.002
264  22.00     0.07      0.021       (  0.079)       0.019        0.002
265  22.08     0.10      0.031       (  0.079)       0.028        0.003
266  22.17     0.10      0.031       (  0.079)       0.028        0.003
267  22.25     0.10      0.031       (  0.079)       0.028        0.003
268  22.33     0.07      0.021       (  0.078)       0.019        0.002
269  22.42     0.07      0.021       (  0.078)       0.019        0.002
270  22.50     0.07      0.021       (  0.078)       0.019        0.002
271  22.58     0.07      0.021       (  0.078)       0.019        0.002
272  22.67     0.07      0.021       (  0.078)       0.019        0.002
273  22.75     0.07      0.021       (  0.077)       0.019        0.002
274  22.83     0.07      0.021       (  0.077)       0.019        0.002
275  22.92     0.07      0.021       (  0.077)       0.019        0.002
276  23.00     0.07      0.021       (  0.077)       0.019        0.002
277  23.08     0.07      0.021       (  0.077)       0.019        0.002
278  23.17     0.07      0.021       (  0.076)       0.019        0.002
279  23.25     0.07      0.021       (  0.076)       0.019        0.002
280  23.33     0.07      0.021       (  0.076)       0.019        0.002
281  23.42     0.07      0.021       (  0.076)       0.019        0.002
282  23.50     0.07      0.021       (  0.076)       0.019        0.002
283  23.58     0.07      0.021       (  0.076)       0.019        0.002
284  23.67     0.07      0.021       (  0.076)       0.019        0.002
285  23.75     0.07      0.021       (  0.075)       0.019        0.002
286  23.83     0.07      0.021       (  0.075)       0.019        0.002
287  23.92     0.07      0.021       (  0.075)       0.019        0.002
288  24.00     0.07      0.021       (  0.075)       0.019        0.002
          (Loss Rate Not Used)
    Sum =     100.0                                    Sum =      9.4
     Flood volume = Effective rainfall      0.79(In)
      times area       5.6(Ac.)/[(In)/(Ft.)] =       0.4(Ac.Ft)
     Total soil loss =      1.80(In)
     Total soil loss =     0.838(Ac.Ft)
     Total rainfall =      2.59(In)
     Flood volume =       15913.4 Cubic Feet
     Total soil loss =       36494.5 Cubic Feet
     ---------------------------------------------------------------------
      Peak flow rate of this hydrograph =      1.252(CFS)
     ---------------------------------------------------------------------
     +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        24 - H O U R    S T O R M
                    R u n o f f      H y d r o g r a p h
     ---------------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

     ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
 ----------------------------------------------------------------------
   0+ 5       0.0000      0.01  Q         |         |         |         |
   0+10       0.0001      0.01  Q         |         |         |         |
   0+15       0.0002      0.01  Q         |         |         |         |
   0+20       0.0003      0.01  Q         |         |         |         |
   0+25       0.0004      0.02  Q         |         |         |         |
```

0+30	0.0005	0.02	Q	|	|	|	|
0+35	0.0006	0.02	Q	|	|	|	|
0+40	0.0008	0.02	Q	|	|	|	|
0+45	0.0009	0.02	Q	|	|	|	|
0+50	0.0010	0.02	Q	|	|	|	|
0+55	0.0012	0.02	Q	|	|	|	|
1+ 0	0.0013	0.02	Q	|	|	|	|
1+ 5	0.0015	0.02	Q	|	|	|	|
1+10	0.0016	0.02	Q	|	|	|	|
1+15	0.0017	0.02	Q	|	|	|	|
1+20	0.0018	0.02	Q	|	|	|	|
1+25	0.0020	0.02	Q	|	|	|	|
1+30	0.0021	0.02	Q	|	|	|	|
1+35	0.0022	0.02	Q	|	|	|	|
1+40	0.0023	0.02	Q	|	|	|	|
1+45	0.0024	0.02	Q	|	|	|	|
1+50	0.0026	0.02	Q	|	|	|	|
1+55	0.0027	0.02	Q	|	|	|	|
2+ 0	0.0029	0.02	Q	|	|	|	|
2+ 5	0.0030	0.02	Q	|	|	|	|
2+10	0.0032	0.02	Q	|	|	|	|
2+15	0.0034	0.02	Q	|	|	|	|
2+20	0.0035	0.02	Q	|	|	|	|
2+25	0.0037	0.02	Q	|	|	|	|
2+30	0.0038	0.02	Q	|	|	|	|
2+35	0.0040	0.03	Q	|	|	|	|
2+40	0.0042	0.03	Q	|	|	|	|
2+45	0.0044	0.03	Q	|	|	|	|
2+50	0.0046	0.03	Q	|	|	|	|
2+55	0.0048	0.03	Q	|	|	|	|
3+ 0	0.0050	0.03	Q	|	|	|	|
3+ 5	0.0052	0.03	Q	|	|	|	|
3+10	0.0054	0.03	Q	|	|	|	|
3+15	0.0056	0.03	Q	|	|	|	|
3+20	0.0058	0.03	Q	|	|	|	|
3+25	0.0060	0.03	Q	|	|	|	|
3+30	0.0062	0.03	Q	|	|	|	|
3+35	0.0064	0.03	Q	|	|	|	|
3+40	0.0066	0.03	Q	|	|	|	|
3+45	0.0068	0.03	Q	|	|	|	|
3+50	0.0070	0.03	Q	|	|	|	|
3+55	0.0073	0.03	Q	|	|	|	|
4+ 0	0.0075	0.03	Q	|	|	|	|
4+ 5	0.0078	0.03	Q	|	|	|	|
4+10	0.0080	0.03	Q	|	|	|	|
4+15	0.0082	0.03	Q	|	|	|	|
4+20	0.0085	0.04	Q	|	|	|	|
4+25	0.0088	0.04	Q	|	|	|	|
4+30	0.0091	0.04	Q	|	|	|	|
4+35	0.0093	0.04	QV	|	|	|	|
4+40	0.0096	0.04	QV	|	|	|	|
4+45	0.0099	0.04	QV	|	|	|	|
4+50	0.0102	0.04	QV	|	|	|	|
4+55	0.0105	0.05	QV	|	|	|	|
5+ 0	0.0108	0.05	QV	|	|	|	|
5+ 5	0.0111	0.04	QV	|	|	|	|
5+10	0.0114	0.04	QV	|	|	|	|
5+15	0.0116	0.04	QV	|	|	|	|
5+20	0.0119	0.04	QV	|	|	|	|
5+25	0.0121	0.04	QV	|	|	|	|

```
 5+30       0.0124      0.04  QV        |         |         |         |
 5+35       0.0127      0.04  QV        |         |         |         |
 5+40       0.0130      0.05  QV        |         |         |         |
 5+45       0.0134      0.05  QV        |         |         |         |
 5+50       0.0137      0.05  QV        |         |         |         |
 5+55       0.0140      0.05  QV        |         |         |         |
 6+ 0       0.0143      0.05  QV        |         |         |         |
 6+ 5       0.0147      0.05  QV        |         |         |         |
 6+10       0.0150      0.05  QV        |         |         |         |
 6+15       0.0154      0.05  QV        |         |         |         |
 6+20       0.0157      0.05  QV        |         |         |         |
 6+25       0.0161      0.05  QV        |         |         |         |
 6+30       0.0164      0.05  QV        |         |         |         |
 6+35       0.0168      0.05  QV        |         |         |         |
 6+40       0.0172      0.06  QV        |         |         |         |
 6+45       0.0176      0.06  QV        |         |         |         |
 6+50       0.0180      0.06  QV        |         |         |         |
 6+55       0.0184      0.06  Q V       |         |         |         |
 7+ 0       0.0188      0.06  Q V       |         |         |         |
 7+ 5       0.0192      0.06  Q V       |         |         |         |
 7+10       0.0196      0.06  Q V       |         |         |         |
 7+15       0.0200      0.06  Q V       |         |         |         |
 7+20       0.0204      0.06  Q V       |         |         |         |
 7+25       0.0209      0.06  Q V       |         |         |         |
 7+30       0.0213      0.06  Q V       |         |         |         |
 7+35       0.0218      0.07  Q V       |         |         |         |
 7+40       0.0223      0.07  Q V       |         |         |         |
 7+45       0.0227      0.07  Q V       |         |         |         |
 7+50       0.0232      0.07  Q V       |         |         |         |
 7+55       0.0237      0.07  Q V       |         |         |         |
 8+ 0       0.0243      0.08  Q V       |         |         |         |
 8+ 5       0.0248      0.08  Q V       |         |         |         |
 8+10       0.0254      0.09  Q V       |         |         |         |
 8+15       0.0260      0.09  Q V       |         |         |         |
 8+20       0.0266      0.09  Q V       |         |         |         |
 8+25       0.0272      0.09  Q V       |         |         |         |
 8+30       0.0278      0.09  Q  V      |         |         |         |
 8+35       0.0284      0.09  Q  V      |         |         |         |
 8+40       0.0291      0.09  Q  V      |         |         |         |
 8+45       0.0297      0.09  Q  V      |         |         |         |
 8+50       0.0304      0.10  Q  V      |         |         |         |
 8+55       0.0310      0.10  Q  V      |         |         |         |
 9+ 0       0.0317      0.10  Q  V      |         |         |         |
 9+ 5       0.0326      0.13  Q  V      |         |         |         |
 9+10       0.0337      0.16  Q  V      |         |         |         |
 9+15       0.0348      0.17  Q  V      |         |         |         |
 9+20       0.0362      0.20  Q  V      |         |         |         |
 9+25       0.0378      0.23  Q   V     |         |         |         |
 9+30       0.0394      0.24  Q   V     |         |         |         |
 9+35       0.0413      0.27  |Q  V     |         |         |         |
 9+40       0.0433      0.30  |Q  V     |         |         |         |
 9+45       0.0455      0.31  |Q  V     |         |         |         |
 9+50       0.0478      0.34  |Q   V    |         |         |         |
 9+55       0.0504      0.37  |Q   V    |         |         |         |
10+ 0       0.0530      0.38  |Q   V    |         |         |         |
10+ 5       0.0547      0.26  |Q   V    |         |         |         |
10+10       0.0556      0.13  Q     V   |         |         |         |
10+15       0.0563      0.10  Q     V   |         |         |         |
10+20       0.0569      0.09  Q     V   |         |         |         |
10+25       0.0575      0.09  Q     V   |         |         |         |
```



```
15+30       0.3304      0.70  | Q       |         |         |     V   |
15+35       0.3346      0.60  | Q       |         |         |     V   |
15+40       0.3380      0.50  | Q       |         |         |      V  |
15+45       0.3413      0.48  |Q        |         |         |      V  |
15+50       0.3446      0.48  |Q        |         |         |      V  |
15+55       0.3479      0.48  |Q        |         |         |       V |
16+ 0       0.3512      0.48  |Q        |         |         |       V |
16+ 5       0.3532      0.28  |Q        |         |         |       V |
16+10       0.3538      0.08  Q         |         |         |       V |
16+15       0.3541      0.04  Q         |         |         |       V |
16+20       0.3543      0.03  Q         |         |         |       V |
16+25       0.3545      0.02  Q         |         |         |       V |
16+30       0.3546      0.02  Q         |         |         |       V |
16+35       0.3548      0.02  Q         |         |         |       V |
16+40       0.3549      0.02  Q         |         |         |       V |
16+45       0.3550      0.02  Q         |         |         |       V |
16+50       0.3551      0.02  Q         |         |         |       V |
16+55       0.3552      0.02  Q         |         |         |       V |
17+ 0       0.3554      0.02  Q         |         |         |       V |
17+ 5       0.3555      0.02  Q         |         |         |       V |
17+10       0.3557      0.03  Q         |         |         |       V |
17+15       0.3559      0.03  Q         |         |         |       V |
17+20       0.3561      0.03  Q         |         |         |       V |
17+25       0.3563      0.03  Q         |         |         |        V|
17+30       0.3565      0.03  Q         |         |         |        V|
17+35       0.3567      0.03  Q         |         |         |        V|
17+40       0.3569      0.03  Q         |         |         |        V|
17+45       0.3571      0.03  Q         |         |         |        V|
17+50       0.3573      0.03  Q         |         |         |        V|
17+55       0.3575      0.02  Q         |         |         |        V|
18+ 0       0.3576      0.02  Q         |         |         |        V|
18+ 5       0.3578      0.02  Q         |         |         |        V|
18+10       0.3579      0.02  Q         |         |         |        V|
18+15       0.3581      0.02  Q         |         |         |        V|
18+20       0.3583      0.02  Q         |         |         |        V|
18+25       0.3584      0.02  Q         |         |         |        V|
18+30       0.3586      0.02  Q         |         |         |        V|
18+35       0.3587      0.02  Q         |         |         |        V|
18+40       0.3589      0.02  Q         |         |         |        V|
18+45       0.3590      0.02  Q         |         |         |        V|
18+50       0.3591      0.02  Q         |         |         |        V|
18+55       0.3592      0.01  Q         |         |         |        V|
19+ 0       0.3592      0.01  Q         |         |         |        V|
19+ 5       0.3593      0.01  Q         |         |         |        V|
19+10       0.3595      0.02  Q         |         |         |        V|
19+15       0.3596      0.02  Q         |         |         |        V|
19+20       0.3597      0.02  Q         |         |         |        V|
19+25       0.3599      0.02  Q         |         |         |        V|
19+30       0.3600      0.02  Q         |         |         |        V|
19+35       0.3602      0.02  Q         |         |         |        V|
19+40       0.3603      0.02  Q         |         |         |        V|
19+45       0.3604      0.02  Q         |         |         |        V|
19+50       0.3605      0.02  Q         |         |         |        V|
19+55       0.3606      0.01  Q         |         |         |        V|
20+ 0       0.3607      0.01  Q         |         |         |        V|
20+ 5       0.3608      0.01  Q         |         |         |        V|
20+10       0.3609      0.02  Q         |         |         |        V|
20+15       0.3610      0.02  Q         |         |         |        V|
20+20       0.3611      0.02  Q         |         |         |        V|
20+25       0.3613      0.02  Q         |         |         |        V|
```

20+30	0.3614	0.02	Q	|	|	|	V|
20+35	0.3615	0.02	Q	|	|	|	V|
20+40	0.3616	0.02	Q	|	|	|	V|
20+45	0.3617	0.02	Q	|	|	|	V|
20+50	0.3618	0.01	Q	|	|	|	V|
20+55	0.3619	0.01	Q	|	|	|	V|
21+ 0	0.3620	0.01	Q	|	|	|	V|
21+ 5	0.3621	0.01	Q	|	|	|	V|
21+10	0.3622	0.02	Q	|	|	|	V|
21+15	0.3623	0.02	Q	|	|	|	V|
21+20	0.3624	0.01	Q	|	|	|	V|
21+25	0.3625	0.01	Q	|	|	|	V|
21+30	0.3626	0.01	Q	|	|	|	V|
21+35	0.3627	0.01	Q	|	|	|	V|
21+40	0.3628	0.02	Q	|	|	|	V|
21+45	0.3629	0.02	Q	|	|	|	V|
21+50	0.3630	0.01	Q	|	|	|	V|
21+55	0.3631	0.01	Q	|	|	|	V|
22+ 0	0.3632	0.01	Q	|	|	|	V|
22+ 5	0.3633	0.01	Q	|	|	|	V|
22+10	0.3634	0.02	Q	|	|	|	V|
22+15	0.3635	0.02	Q	|	|	|	V|
22+20	0.3636	0.01	Q	|	|	|	V|
22+25	0.3637	0.01	Q	|	|	|	V|
22+30	0.3638	0.01	Q	|	|	|	V|
22+35	0.3639	0.01	Q	|	|	|	V|
22+40	0.3640	0.01	Q	|	|	|	V|
22+45	0.3641	0.01	Q	|	|	|	V|
22+50	0.3641	0.01	Q	|	|	|	V|
22+55	0.3642	0.01	Q	|	|	|	V|
23+ 0	0.3643	0.01	Q	|	|	|	V|
23+ 5	0.3644	0.01	Q	|	|	|	V|
23+10	0.3645	0.01	Q	|	|	|	V|
23+15	0.3645	0.01	Q	|	|	|	V|
23+20	0.3646	0.01	Q	|	|	|	V|
23+25	0.3647	0.01	Q	|	|	|	V|
23+30	0.3648	0.01	Q	|	|	|	V|
23+35	0.3649	0.01	Q	|	|	|	V|
23+40	0.3649	0.01	Q	|	|	|	V|
23+45	0.3650	0.01	Q	|	|	|	V|
23+50	0.3651	0.01	Q	|	|	|	V|
23+55	0.3652	0.01	Q	|	|	|	V|
24+ 0	0.3653	0.01	Q	|	|	|	V|
24+ 5	0.3653	0.01	Q	|	|	|	V|
24+10	0.3653	0.00	Q	|	|	|	V|
24+15	0.3653	0.00	Q	|	|	|	V|
24+20	0.3653	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 08/02/23 File: MENEX1100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
100-YR
1-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.50	2.79

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.20	6.70

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.200(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
		Sum = 100.000	Sum=	5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	3.40	0.490	0.151	(0.441)	0.339
2	0.17	4.70	0.677	0.151	(0.609)	0.526
3	0.25	4.70	0.677	0.151	(0.609)	0.526
4	0.33	5.10	0.734	0.151	(0.661)	0.584
5	0.42	5.80	0.835	0.151	(0.752)	0.685
6	0.50	5.90	0.850	0.151	(0.765)	0.699
7	0.58	7.10	1.022	0.151	(0.920)	0.872
8	0.67	8.70	1.253	0.151	(1.127)	1.102
9	0.75	13.20	1.901	0.151	(1.711)	1.750
10	0.83	29.70	4.277	0.151	(3.849)	4.126
11	0.92	7.70	1.109	0.151	(0.998)	0.958
12	1.00	4.00	0.576	0.151	(0.518)	0.425

(Loss Rate Not Used)
Sum = 100.0 Sum = 12.6
Flood volume = Effective rainfall 1.05(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.5(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.070(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 21256.4 Cubic Feet
Total soil loss = 3048.8 Cubic Feet

Peak flow rate of this hydrograph = 15.055(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0057	0.82	VQ				
0+10	0.0202	2.11	V Q				
0+15	0.0390	2.73	V Q				
0+20	0.0599	3.03	V Q				
0+25	0.0838	3.47	Q				
0+30	0.1100	3.80	Q V				
0+35	0.1397	4.31	Q V				
0+40	0.1763	5.32	Q V				
0+45	0.2284	7.56	Q V				
0+50	0.3320	15.05	V Q				
0+55	0.4254	13.56	Q V				
1+ 0	0.4656	5.84	Q				V
1+ 5	0.4824	2.43	Q				V
1+10	0.4868	0.65	Q				V
1+15	0.4878	0.14	Q				V
1+20	0.4880	0.03	Q				V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX3100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
100-YR
3-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	0.80	4.46

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.80	10.04

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 1.800(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
		Sum =	100.000 Sum=	5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.281	0.151	(	0.253)	0.130
2	0.17	1.30	0.281	0.151	(	0.253)	0.130
3	0.25	1.10	0.238	0.151	(	0.214)	0.087
4	0.33	1.50	0.324	0.151	(	0.292)	0.173
5	0.42	1.50	0.324	0.151	(	0.292)	0.173
6	0.50	1.80	0.389	0.151	(	0.350)	0.238
7	0.58	1.50	0.324	0.151	(	0.292)	0.173
8	0.67	1.80	0.389	0.151	(	0.350)	0.238
9	0.75	1.80	0.389	0.151	(	0.350)	0.238
10	0.83	1.50	0.324	0.151	(	0.292)	0.173
11	0.92	1.60	0.346	0.151	(	0.311)	0.195
12	1.00	1.80	0.389	0.151	(	0.350)	0.238
13	1.08	2.20	0.475	0.151	(	0.428)	0.325
14	1.17	2.20	0.475	0.151	(	0.428)	0.325

15	1.25	2.20	0.475	0.151	(	0.428)	0.325
16	1.33	2.00	0.432	0.151	(	0.389)	0.281
17	1.42	2.60	0.562	0.151	(	0.505)	0.411
18	1.50	2.70	0.583	0.151	(	0.525)	0.433
19	1.58	2.40	0.518	0.151	(	0.467)	0.368
20	1.67	2.70	0.583	0.151	(	0.525)	0.433
21	1.75	3.30	0.713	0.151	(	0.642)	0.562
22	1.83	3.10	0.670	0.151	(	0.603)	0.519
23	1.92	2.90	0.626	0.151	(	0.564)	0.476
24	2.00	3.00	0.648	0.151	(	0.583)	0.497
25	2.08	3.10	0.670	0.151	(	0.603)	0.519
26	2.17	4.20	0.907	0.151	(	0.816)	0.757
27	2.25	5.00	1.080	0.151	(	0.972)	0.929
28	2.33	3.50	0.756	0.151	(	0.680)	0.605
29	2.42	6.80	1.469	0.151	(	1.322)	1.318
30	2.50	7.30	1.577	0.151	(	1.419)	1.426
31	2.58	8.20	1.771	0.151	(	1.594)	1.621
32	2.67	5.90	1.274	0.151	(	1.147)	1.124
33	2.75	2.00	0.432	0.151	(	0.389)	0.281
34	2.83	1.80	0.389	0.151	(	0.350)	0.238
35	2.92	1.80	0.389	0.151	(	0.350)	0.238
36	3.00	0.60	0.130	(0.151)		0.117	0.013

(Loss Rate Not Used)

Sum = 100.0 Sum = 16.2

Flood volume = Effective rainfall 1.35(In)
times area 5.6(Ac.)/[(In)/(Ft.)] = 0.6(Ac.Ft)
Total soil loss = 0.45(In)
Total soil loss = 0.209(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 27369.5 Cubic Feet
Total soil loss = 9089.3 Cubic Feet

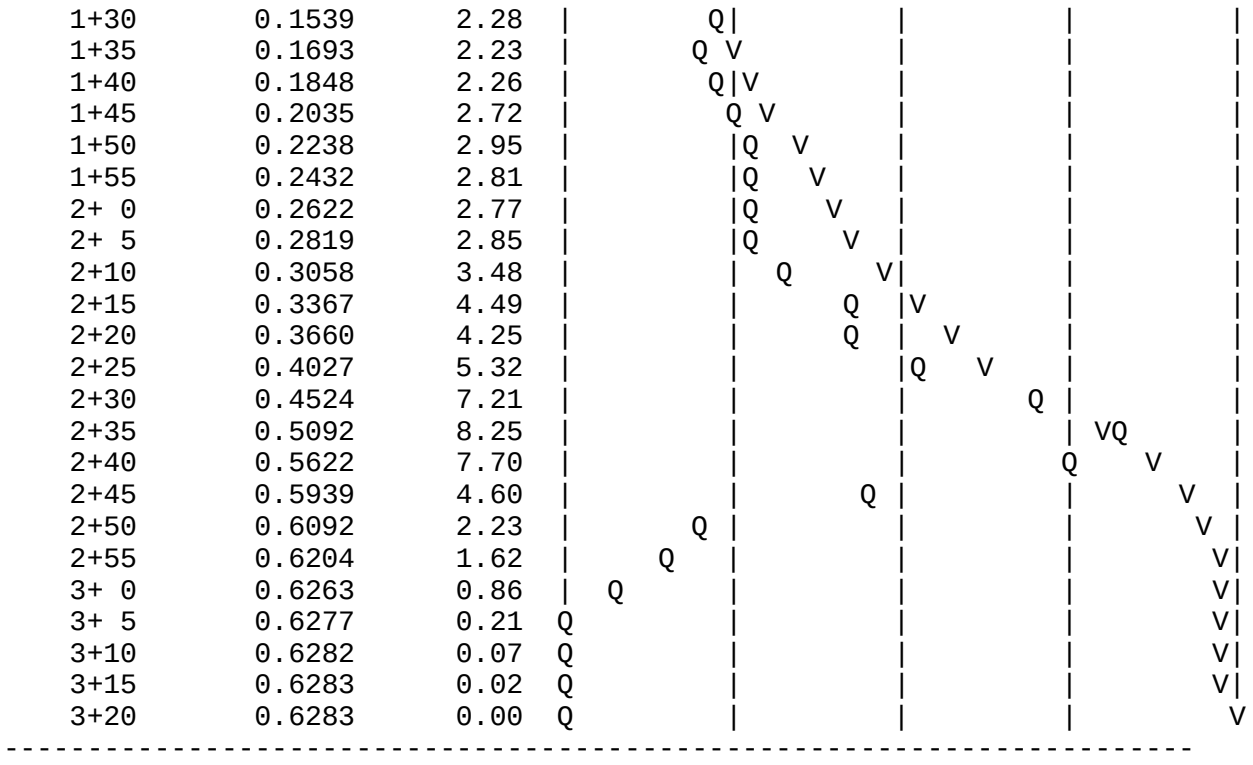
Peak flow rate of this hydrograph = 8.253(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0022	0.32	VQ				
0+10	0.0065	0.63	V Q				
0+15	0.0106	0.59	V Q				
0+20	0.0156	0.72	V Q				
0+25	0.0220	0.92	|V Q				
0+30	0.0297	1.11	|V Q				
0+35	0.0374	1.13	| V Q				
0+40	0.0455	1.17	| V Q				
0+45	0.0544	1.30	| V Q				
0+50	0.0625	1.17	| VQ				
0+55	0.0699	1.07	| Q				
1+ 0	0.0782	1.20	| Q				
1+ 5	0.0886	1.52	| VQ				
1+10	0.1007	1.75	| Q				
1+15	0.1131	1.80	| Q				
1+20	0.1249	1.72	| QV				
1+25	0.1382	1.93	| QV |				


1+30 0.1539 2.28
1+35 0.1693 2.23
1+40 0.1848 2.26
1+45 0.2035 2.72
1+50 0.2238 2.95
1+55 0.2432 2.81
2+ 0 0.2622 2.77
2+ 5 0.2819 2.85
2+10 0.3058 3.48
2+15 0.3367 4.49
2+20 0.3660 4.25
2+25 0.4027 5.32
2+30 0.4524 7.21
2+35 0.5092 8.25
2+40 0.5622 7.70
2+45 0.5939 4.60
2+50 0.6092 2.23
2+55 0.6204 1.62
3+ 0 0.6263 0.86
3+ 5 0.6277 0.21
3+10 0.6282 0.07
3+15 0.6283 0.02
3+20 0.6283 0.00

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX6100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
100-YR
6-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.00	5.58

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	2.50	13.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
		Sum =	100.000 Sum=	5.624

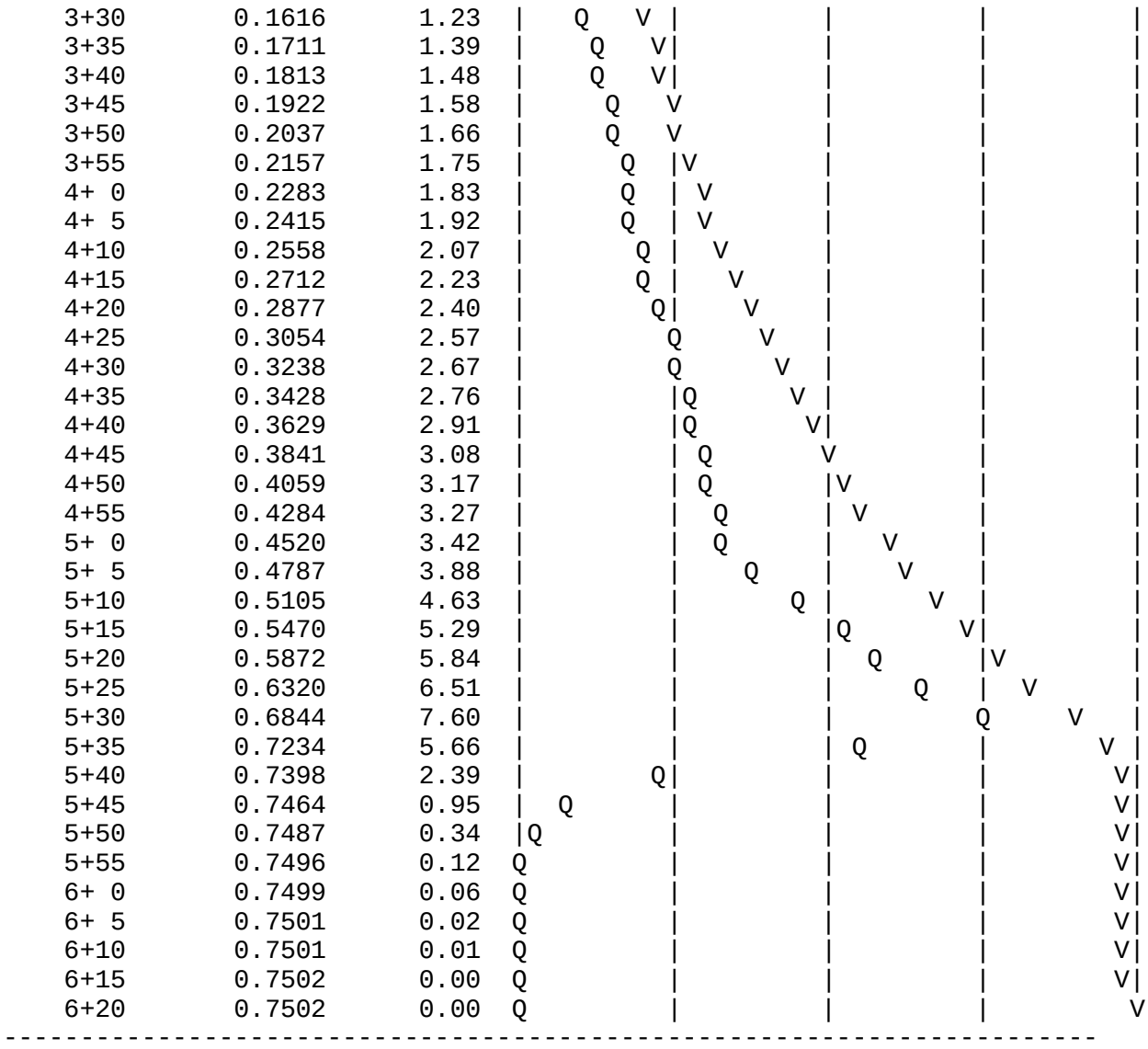
The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.151)		0.135	0.015
2	0.17	0.60	0.180	0.151	(	0.162)	0.029
3	0.25	0.60	0.180	0.151	(	0.162)	0.029
4	0.33	0.60	0.180	0.151	(	0.162)	0.029
5	0.42	0.60	0.180	0.151	(	0.162)	0.029
6	0.50	0.70	0.210	0.151	(	0.189)	0.059
7	0.58	0.70	0.210	0.151	(	0.189)	0.059
8	0.67	0.70	0.210	0.151	(	0.189)	0.059
9	0.75	0.70	0.210	0.151	(	0.189)	0.059
10	0.83	0.70	0.210	0.151	(	0.189)	0.059
11	0.92	0.70	0.210	0.151	(	0.189)	0.059
12	1.00	0.80	0.240	0.151	(	0.216)	0.089
13	1.08	0.80	0.240	0.151	(	0.216)	0.089
14	1.17	0.80	0.240	0.151	(	0.216)	0.089

15	1.25	0.80	0.240	0.151	(0.216)	0.089
16	1.33	0.80	0.240	0.151	(0.216)	0.089
17	1.42	0.80	0.240	0.151	(0.216)	0.089
18	1.50	0.80	0.240	0.151	(0.216)	0.089
19	1.58	0.80	0.240	0.151	(0.216)	0.089
20	1.67	0.80	0.240	0.151	(0.216)	0.089
21	1.75	0.80	0.240	0.151	(0.216)	0.089
22	1.83	0.80	0.240	0.151	(0.216)	0.089
23	1.92	0.80	0.240	0.151	(0.216)	0.089
24	2.00	0.90	0.270	0.151	(0.243)	0.119
25	2.08	0.80	0.240	0.151	(0.216)	0.089
26	2.17	0.90	0.270	0.151	(0.243)	0.119
27	2.25	0.90	0.270	0.151	(0.243)	0.119
28	2.33	0.90	0.270	0.151	(0.243)	0.119
29	2.42	0.90	0.270	0.151	(0.243)	0.119
30	2.50	0.90	0.270	0.151	(0.243)	0.119
31	2.58	0.90	0.270	0.151	(0.243)	0.119
32	2.67	0.90	0.270	0.151	(0.243)	0.119
33	2.75	1.00	0.300	0.151	(0.270)	0.149
34	2.83	1.00	0.300	0.151	(0.270)	0.149
35	2.92	1.00	0.300	0.151	(0.270)	0.149
36	3.00	1.00	0.300	0.151	(0.270)	0.149
37	3.08	1.00	0.300	0.151	(0.270)	0.149
38	3.17	1.10	0.330	0.151	(0.297)	0.179
39	3.25	1.10	0.330	0.151	(0.297)	0.179
40	3.33	1.10	0.330	0.151	(0.297)	0.179
41	3.42	1.20	0.360	0.151	(0.324)	0.209
42	3.50	1.30	0.390	0.151	(0.351)	0.239
43	3.58	1.40	0.420	0.151	(0.378)	0.269
44	3.67	1.40	0.420	0.151	(0.378)	0.269
45	3.75	1.50	0.450	0.151	(0.405)	0.299
46	3.83	1.50	0.450	0.151	(0.405)	0.299
47	3.92	1.60	0.480	0.151	(0.432)	0.329
48	4.00	1.60	0.480	0.151	(0.432)	0.329
49	4.08	1.70	0.510	0.151	(0.459)	0.359
50	4.17	1.80	0.540	0.151	(0.486)	0.389
51	4.25	1.90	0.570	0.151	(0.513)	0.419
52	4.33	2.00	0.600	0.151	(0.540)	0.449
53	4.42	2.10	0.630	0.151	(0.567)	0.479
54	4.50	2.10	0.630	0.151	(0.567)	0.479
55	4.58	2.20	0.660	0.151	(0.594)	0.509
56	4.67	2.30	0.690	0.151	(0.621)	0.539
57	4.75	2.40	0.720	0.151	(0.648)	0.569
58	4.83	2.40	0.720	0.151	(0.648)	0.569
59	4.92	2.50	0.750	0.151	(0.675)	0.599
60	5.00	2.60	0.780	0.151	(0.702)	0.629
61	5.08	3.10	0.930	0.151	(0.837)	0.779
62	5.17	3.60	1.080	0.151	(0.972)	0.929
63	5.25	3.90	1.170	0.151	(1.053)	1.019
64	5.33	4.20	1.260	0.151	(1.134)	1.109
65	5.42	4.70	1.410	0.151	(1.269)	1.259
66	5.50	5.60	1.680	0.151	(1.512)	1.529
67	5.58	1.90	0.570	0.151	(0.513)	0.419
68	5.67	0.90	0.270	0.151	(0.243)	0.119
69	5.75	0.60	0.180	0.151	(0.162)	0.029
70	5.83	0.50	0.150	(0.151)	0.135	0.015
71	5.92	0.30	0.090	(0.151)	0.081	0.009
72	6.00	0.20	0.060	(0.151)	0.054	0.006
		(Loss Rate Not Used)				
	Sum =	100.0			Sum =	19.4

```
   Flood volume = Effective rainfall      1.61(In)
    times area       5.6(Ac.)/[(In)/(Ft.)] =       0.8(Ac.Ft)
   Total soil loss =      0.89(In)
   Total soil loss =     0.412(Ac.Ft)
   Total rainfall =      2.50(In)
   Flood volume =       32677.1 Cubic Feet
   Total soil loss =       17960.4 Cubic Feet
   ------------------------------------------------------------------------
    Peak flow rate of this hydrograph =      7.600(CFS)
   ------------------------------------------------------------------------
   ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                       6 - H O U R    S T O R M
                  R u n o f f      H y d r o g r a p h
   ------------------------------------------------------------------------
               Hydrograph in   5   Minute intervals ((CFS))

   ------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
------------------------------------------------------------------------
  0+ 5       0.0003      0.04  Q         |         |         |         |
  0+10       0.0010      0.11  Q         |         |         |         |
  0+15       0.0020      0.15  Q         |         |         |         |
  0+20       0.0031      0.16  Q         |         |         |         |
  0+25       0.0043      0.16  Q         |         |         |         |
  0+30       0.0059      0.24  Q         |         |         |         |
  0+35       0.0081      0.31  VQ        |         |         |         |
  0+40       0.0103      0.33  VQ        |         |         |         |
  0+45       0.0126      0.33  VQ        |         |         |         |
  0+50       0.0149      0.33  VQ        |         |         |         |
  0+55       0.0172      0.33  VQ        |         |         |         |
  1+ 0       0.0200      0.41  |Q        |         |         |         |
  1+ 5       0.0233      0.48  |Q        |         |         |         |
  1+10       0.0268      0.50  |Q        |         |         |         |
  1+15       0.0302      0.50  |VQ       |         |         |         |
  1+20       0.0337      0.50  |VQ       |         |         |         |
  1+25       0.0372      0.50  |VQ       |         |         |         |
  1+30       0.0406      0.50  | Q       |         |         |         |
  1+35       0.0441      0.50  | Q       |         |         |         |
  1+40       0.0476      0.50  | Q       |         |         |         |
  1+45       0.0510      0.50  | Q       |         |         |         |
  1+50       0.0545      0.50  | Q       |         |         |         |
  1+55       0.0580      0.50  | QV      |         |         |         |
  2+ 0       0.0619      0.58  | QV      |         |         |         |
  2+ 5       0.0659      0.58  | QV      |         |         |         |
  2+10       0.0700      0.59  | QV      |         |         |         |
  2+15       0.0745      0.66  | QV      |         |         |         |
  2+20       0.0791      0.67  | Q V     |         |         |         |
  2+25       0.0837      0.67  | Q V     |         |         |         |
  2+30       0.0883      0.67  | Q V     |         |         |         |
  2+35       0.0929      0.67  | Q V     |         |         |         |
  2+40       0.0976      0.67  | Q  V    |         |         |         |
  2+45       0.1027      0.75  | Q  V    |         |         |         |
  2+50       0.1083      0.82  |  Q V    |         |         |         |
  2+55       0.1141      0.83  |  Q  V   |         |         |         |
  3+ 0       0.1199      0.84  |  Q  V   |         |         |         |
  3+ 5       0.1257      0.84  |  Q  V   |         |         |         |
  3+10       0.1319      0.91  |  Q   V  |         |         |         |
  3+15       0.1387      0.99  |  Q   V  |         |         |         |
  3+20       0.1456      1.00  |   Q  V  |         |         |         |
  3+25       0.1531      1.08  |   Q   V |         |         |         |
```


3+30 0.1616 1.23
3+35 0.1711 1.39
3+40 0.1813 1.48
3+45 0.1922 1.58
3+50 0.2037 1.66
3+55 0.2157 1.75
4+ 0 0.2283 1.83
4+ 5 0.2415 1.92
4+10 0.2558 2.07
4+15 0.2712 2.23
4+20 0.2877 2.40
4+25 0.3054 2.57
4+30 0.3238 2.67
4+35 0.3428 2.76
4+40 0.3629 2.91
4+45 0.3841 3.08
4+50 0.4059 3.17
4+55 0.4284 3.27
5+ 0 0.4520 3.42
5+ 5 0.4787 3.88
5+10 0.5105 4.63
5+15 0.5470 5.29
5+20 0.5872 5.84
5+25 0.6320 6.51
5+30 0.6844 7.60
5+35 0.7234 5.66
5+40 0.7398 2.39
5+45 0.7464 0.95
5+50 0.7487 0.34
5+55 0.7496 0.12
6+ 0 0.7499 0.06
6+ 5 0.7501 0.02
6+10 0.7501 0.01
6+15 0.7502 0.00
6+20 0.7502 0.00

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 07/31/23 File: MENEX24100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

EXISTING CONDITION
100-YR
24-HR

Drainage Area = 5.58(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.58(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 466.00(Ft.)
Length along longest watercourse measured to centroid = 165.00(Ft.)
Length along longest watercourse = 0.088 Mi.
Length along longest watercourse measured to centroid = 0.031 Mi.
Difference in elevation = 2.10(Ft.)
Slope along watercourse = 23.7940 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.042 Hr.
Lag time = 2.52 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.01 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	1.60	8.93

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.58	4.00	22.32

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 4.000(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 4.000(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.580	88.20	0.000

Total Area Entered = 5.58(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
88.2	88.2	0.151	0.000	0.151	1.000	0.151
					Sum (F) =	0.151

Area averaged mean soil loss (F) (In/Hr) = 0.151
Minimum soil loss rate ((In/Hr)) = 0.075
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	198.420	43.127	2.425
2	0.167	396.841	43.478	2.445
3	0.250	595.261	8.859	0.498
4	0.333	793.682	3.451	0.194
5	0.417	992.102	1.086	0.061
			Sum = 100.000	Sum= 5.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.07	0.032	(0.267)		0.029	0.003
2	0.17	0.07	0.032	(0.266)		0.029	0.003
3	0.25	0.07	0.032	(0.265)		0.029	0.003
4	0.33	0.10	0.048	(0.264)		0.043	0.005
5	0.42	0.10	0.048	(0.263)		0.043	0.005
6	0.50	0.10	0.048	(0.262)		0.043	0.005
7	0.58	0.10	0.048	(0.261)		0.043	0.005
8	0.67	0.10	0.048	(0.260)		0.043	0.005
9	0.75	0.10	0.048	(0.259)		0.043	0.005
10	0.83	0.13	0.064	(0.258)		0.058	0.006
11	0.92	0.13	0.064	(0.257)		0.058	0.006
12	1.00	0.13	0.064	(0.256)		0.058	0.006
13	1.08	0.10	0.048	(0.255)		0.043	0.005
14	1.17	0.10	0.048	(0.254)		0.043	0.005

15	1.25	0.10	0.048	(0.253)	0.043	0.005
16	1.33	0.10	0.048	(0.252)	0.043	0.005
17	1.42	0.10	0.048	(0.251)	0.043	0.005
18	1.50	0.10	0.048	(0.250)	0.043	0.005
19	1.58	0.10	0.048	(0.249)	0.043	0.005
20	1.67	0.10	0.048	(0.248)	0.043	0.005
21	1.75	0.10	0.048	(0.247)	0.043	0.005
22	1.83	0.13	0.064	(0.246)	0.058	0.006
23	1.92	0.13	0.064	(0.245)	0.058	0.006
24	2.00	0.13	0.064	(0.244)	0.058	0.006
25	2.08	0.13	0.064	(0.243)	0.058	0.006
26	2.17	0.13	0.064	(0.242)	0.058	0.006
27	2.25	0.13	0.064	(0.241)	0.058	0.006
28	2.33	0.13	0.064	(0.240)	0.058	0.006
29	2.42	0.13	0.064	(0.239)	0.058	0.006
30	2.50	0.13	0.064	(0.238)	0.058	0.006
31	2.58	0.17	0.080	(0.237)	0.072	0.008
32	2.67	0.17	0.080	(0.236)	0.072	0.008
33	2.75	0.17	0.080	(0.235)	0.072	0.008
34	2.83	0.17	0.080	(0.234)	0.072	0.008
35	2.92	0.17	0.080	(0.233)	0.072	0.008
36	3.00	0.17	0.080	(0.232)	0.072	0.008
37	3.08	0.17	0.080	(0.231)	0.072	0.008
38	3.17	0.17	0.080	(0.230)	0.072	0.008
39	3.25	0.17	0.080	(0.229)	0.072	0.008
40	3.33	0.17	0.080	(0.228)	0.072	0.008
41	3.42	0.17	0.080	(0.227)	0.072	0.008
42	3.50	0.17	0.080	(0.226)	0.072	0.008
43	3.58	0.17	0.080	(0.225)	0.072	0.008
44	3.67	0.17	0.080	(0.224)	0.072	0.008
45	3.75	0.17	0.080	(0.223)	0.072	0.008
46	3.83	0.20	0.096	(0.222)	0.086	0.010
47	3.92	0.20	0.096	(0.221)	0.086	0.010
48	4.00	0.20	0.096	(0.221)	0.086	0.010
49	4.08	0.20	0.096	(0.220)	0.086	0.010
50	4.17	0.20	0.096	(0.219)	0.086	0.010
51	4.25	0.20	0.096	(0.218)	0.086	0.010
52	4.33	0.23	0.112	(0.217)	0.101	0.011
53	4.42	0.23	0.112	(0.216)	0.101	0.011
54	4.50	0.23	0.112	(0.215)	0.101	0.011
55	4.58	0.23	0.112	(0.214)	0.101	0.011
56	4.67	0.23	0.112	(0.213)	0.101	0.011
57	4.75	0.23	0.112	(0.212)	0.101	0.011
58	4.83	0.27	0.128	(0.211)	0.115	0.013
59	4.92	0.27	0.128	(0.210)	0.115	0.013
60	5.00	0.27	0.128	(0.209)	0.115	0.013
61	5.08	0.20	0.096	(0.209)	0.086	0.010
62	5.17	0.20	0.096	(0.208)	0.086	0.010
63	5.25	0.20	0.096	(0.207)	0.086	0.010
64	5.33	0.23	0.112	(0.206)	0.101	0.011
65	5.42	0.23	0.112	(0.205)	0.101	0.011
66	5.50	0.23	0.112	(0.204)	0.101	0.011
67	5.58	0.27	0.128	(0.203)	0.115	0.013
68	5.67	0.27	0.128	(0.202)	0.115	0.013
69	5.75	0.27	0.128	(0.201)	0.115	0.013
70	5.83	0.27	0.128	(0.200)	0.115	0.013
71	5.92	0.27	0.128	(0.200)	0.115	0.013
72	6.00	0.27	0.128	(0.199)	0.115	0.013
73	6.08	0.30	0.144	(0.198)	0.130	0.014
74	6.17	0.30	0.144	(0.197)	0.130	0.014

75	6.25	0.30	0.144	(	0.196)	0.130	0.014
76	6.33	0.30	0.144	(	0.195)	0.130	0.014
77	6.42	0.30	0.144	(	0.194)	0.130	0.014
78	6.50	0.30	0.144	(	0.193)	0.130	0.014
79	6.58	0.33	0.160	(	0.193)	0.144	0.016
80	6.67	0.33	0.160	(	0.192)	0.144	0.016
81	6.75	0.33	0.160	(	0.191)	0.144	0.016
82	6.83	0.33	0.160	(	0.190)	0.144	0.016
83	6.92	0.33	0.160	(	0.189)	0.144	0.016
84	7.00	0.33	0.160	(	0.188)	0.144	0.016
85	7.08	0.33	0.160	(	0.187)	0.144	0.016
86	7.17	0.33	0.160	(	0.187)	0.144	0.016
87	7.25	0.33	0.160	(	0.186)	0.144	0.016
88	7.33	0.37	0.176	(	0.185)	0.158	0.018
89	7.42	0.37	0.176	(	0.184)	0.158	0.018
90	7.50	0.37	0.176	(	0.183)	0.158	0.018
91	7.58	0.40	0.192	(	0.182)	0.173	0.019
92	7.67	0.40	0.192	(	0.181)	0.173	0.019
93	7.75	0.40	0.192	(	0.181)	0.173	0.019
94	7.83	0.43	0.208		0.180	(0.187)	0.028
95	7.92	0.43	0.208		0.179	(0.187)	0.029
96	8.00	0.43	0.208		0.178	(0.187)	0.030
97	8.08	0.50	0.240		0.177	(0.216)	0.063
98	8.17	0.50	0.240		0.176	(0.216)	0.064
99	8.25	0.50	0.240		0.176	(0.216)	0.064
100	8.33	0.50	0.240		0.175	(0.216)	0.065
101	8.42	0.50	0.240		0.174	(0.216)	0.066
102	8.50	0.50	0.240		0.173	(0.216)	0.067
103	8.58	0.53	0.256		0.172	(0.230)	0.084
104	8.67	0.53	0.256		0.172	(0.230)	0.084
105	8.75	0.53	0.256		0.171	(0.230)	0.085
106	8.83	0.57	0.272		0.170	(0.245)	0.102
107	8.92	0.57	0.272		0.169	(0.245)	0.103
108	9.00	0.57	0.272		0.168	(0.245)	0.104
109	9.08	0.63	0.304		0.168	(0.274)	0.136
110	9.17	0.63	0.304		0.167	(0.274)	0.137
111	9.25	0.63	0.304		0.166	(0.274)	0.138
112	9.33	0.67	0.320		0.165	(0.288)	0.155
113	9.42	0.67	0.320		0.164	(0.288)	0.156
114	9.50	0.67	0.320		0.164	(0.288)	0.156
115	9.58	0.70	0.336		0.163	(0.302)	0.173
116	9.67	0.70	0.336		0.162	(0.302)	0.174
117	9.75	0.70	0.336		0.161	(0.302)	0.175
118	9.83	0.73	0.352		0.160	(0.317)	0.192
119	9.92	0.73	0.352		0.160	(0.317)	0.192
120	10.00	0.73	0.352		0.159	(0.317)	0.193
121	10.08	0.50	0.240		0.158	(0.216)	0.082
122	10.17	0.50	0.240		0.157	(0.216)	0.083
123	10.25	0.50	0.240		0.157	(0.216)	0.083
124	10.33	0.50	0.240		0.156	(0.216)	0.084
125	10.42	0.50	0.240		0.155	(0.216)	0.085
126	10.50	0.50	0.240		0.154	(0.216)	0.086
127	10.58	0.67	0.320		0.154	(0.288)	0.166
128	10.67	0.67	0.320		0.153	(0.288)	0.167
129	10.75	0.67	0.320		0.152	(0.288)	0.168
130	10.83	0.67	0.320		0.151	(0.288)	0.169
131	10.92	0.67	0.320		0.151	(0.288)	0.169
132	11.00	0.67	0.320		0.150	(0.288)	0.170
133	11.08	0.63	0.304		0.149	(0.274)	0.155
134	11.17	0.63	0.304		0.148	(0.274)	0.156

135	11.25	0.63	0.304	0.148	(0.274)	0.156
136	11.33	0.63	0.304	0.147	(0.274)	0.157
137	11.42	0.63	0.304	0.146	(0.274)	0.158
138	11.50	0.63	0.304	0.146	(0.274)	0.158
139	11.58	0.57	0.272	0.145	(0.245)	0.127
140	11.67	0.57	0.272	0.144	(0.245)	0.128
141	11.75	0.57	0.272	0.143	(0.245)	0.129
142	11.83	0.60	0.288	0.143	(0.259)	0.145
143	11.92	0.60	0.288	0.142	(0.259)	0.146
144	12.00	0.60	0.288	0.141	(0.259)	0.147
145	12.08	0.83	0.400	0.141	(0.360)	0.259
146	12.17	0.83	0.400	0.140	(0.360)	0.260
147	12.25	0.83	0.400	0.139	(0.360)	0.261
148	12.33	0.87	0.416	0.138	(0.374)	0.278
149	12.42	0.87	0.416	0.138	(0.374)	0.278
150	12.50	0.87	0.416	0.137	(0.374)	0.279
151	12.58	0.93	0.448	0.136	(0.403)	0.312
152	12.67	0.93	0.448	0.136	(0.403)	0.312
153	12.75	0.93	0.448	0.135	(0.403)	0.313
154	12.83	0.97	0.464	0.134	(0.418)	0.330
155	12.92	0.97	0.464	0.134	(0.418)	0.330
156	13.00	0.97	0.464	0.133	(0.418)	0.331
157	13.08	1.13	0.544	0.132	(0.490)	0.412
158	13.17	1.13	0.544	0.132	(0.490)	0.412
159	13.25	1.13	0.544	0.131	(0.490)	0.413
160	13.33	1.13	0.544	0.130	(0.490)	0.414
161	13.42	1.13	0.544	0.130	(0.490)	0.414
162	13.50	1.13	0.544	0.129	(0.490)	0.415
163	13.58	0.77	0.368	0.128	(0.331)	0.240
164	13.67	0.77	0.368	0.128	(0.331)	0.240
165	13.75	0.77	0.368	0.127	(0.331)	0.241
166	13.83	0.77	0.368	0.126	(0.331)	0.242
167	13.92	0.77	0.368	0.126	(0.331)	0.242
168	14.00	0.77	0.368	0.125	(0.331)	0.243
169	14.08	0.90	0.432	0.124	(0.389)	0.308
170	14.17	0.90	0.432	0.124	(0.389)	0.308
171	14.25	0.90	0.432	0.123	(0.389)	0.309
172	14.33	0.87	0.416	0.122	(0.374)	0.294
173	14.42	0.87	0.416	0.122	(0.374)	0.294
174	14.50	0.87	0.416	0.121	(0.374)	0.295
175	14.58	0.87	0.416	0.121	(0.374)	0.295
176	14.67	0.87	0.416	0.120	(0.374)	0.296
177	14.75	0.87	0.416	0.119	(0.374)	0.297
178	14.83	0.83	0.400	0.119	(0.360)	0.281
179	14.92	0.83	0.400	0.118	(0.360)	0.282
180	15.00	0.83	0.400	0.118	(0.360)	0.282
181	15.08	0.80	0.384	0.117	(0.346)	0.267
182	15.17	0.80	0.384	0.116	(0.346)	0.268
183	15.25	0.80	0.384	0.116	(0.346)	0.268
184	15.33	0.77	0.368	0.115	(0.331)	0.253
185	15.42	0.77	0.368	0.115	(0.331)	0.253
186	15.50	0.77	0.368	0.114	(0.331)	0.254
187	15.58	0.63	0.304	0.113	(0.274)	0.191
188	15.67	0.63	0.304	0.113	(0.274)	0.191
189	15.75	0.63	0.304	0.112	(0.274)	0.192
190	15.83	0.63	0.304	0.112	(0.274)	0.192
191	15.92	0.63	0.304	0.111	(0.274)	0.193
192	16.00	0.63	0.304	0.111	(0.274)	0.193
193	16.08	0.13	0.064	(0.110)	0.058	0.006
194	16.17	0.13	0.064	(0.109)	0.058	0.006

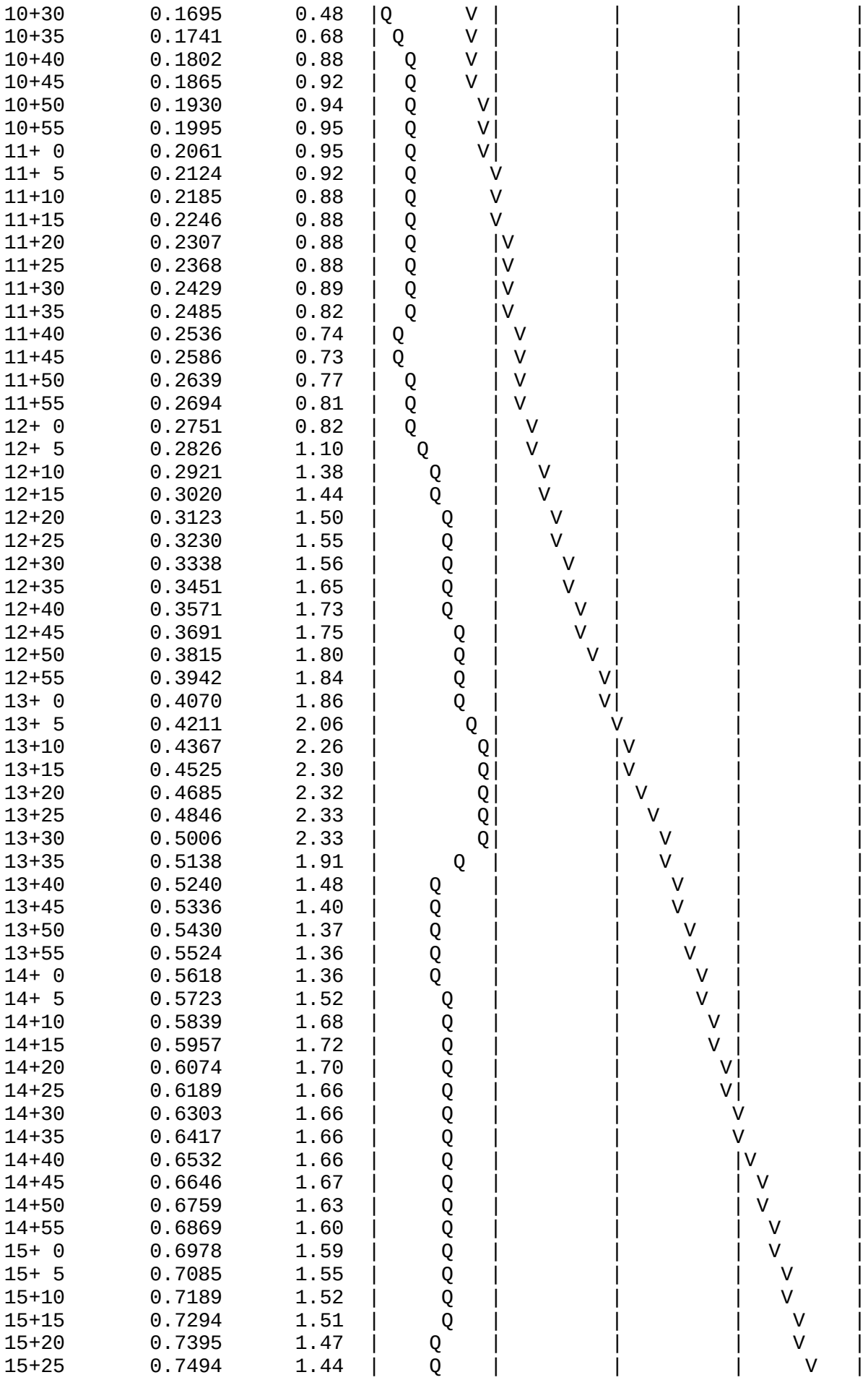
195	16.25	0.13	0.064	(0.109)	0.058	0.006
196	16.33	0.13	0.064	(0.108)	0.058	0.006
197	16.42	0.13	0.064	(0.108)	0.058	0.006
198	16.50	0.13	0.064	(0.107)	0.058	0.006
199	16.58	0.10	0.048	(0.107)	0.043	0.005
200	16.67	0.10	0.048	(0.106)	0.043	0.005
201	16.75	0.10	0.048	(0.106)	0.043	0.005
202	16.83	0.10	0.048	(0.105)	0.043	0.005
203	16.92	0.10	0.048	(0.105)	0.043	0.005
204	17.00	0.10	0.048	(0.104)	0.043	0.005
205	17.08	0.17	0.080	(0.103)	0.072	0.008
206	17.17	0.17	0.080	(0.103)	0.072	0.008
207	17.25	0.17	0.080	(0.102)	0.072	0.008
208	17.33	0.17	0.080	(0.102)	0.072	0.008
209	17.42	0.17	0.080	(0.101)	0.072	0.008
210	17.50	0.17	0.080	(0.101)	0.072	0.008
211	17.58	0.17	0.080	(0.100)	0.072	0.008
212	17.67	0.17	0.080	(0.100)	0.072	0.008
213	17.75	0.17	0.080	(0.099)	0.072	0.008
214	17.83	0.13	0.064	(0.099)	0.058	0.006
215	17.92	0.13	0.064	(0.098)	0.058	0.006
216	18.00	0.13	0.064	(0.098)	0.058	0.006
217	18.08	0.13	0.064	(0.097)	0.058	0.006
218	18.17	0.13	0.064	(0.097)	0.058	0.006
219	18.25	0.13	0.064	(0.096)	0.058	0.006
220	18.33	0.13	0.064	(0.096)	0.058	0.006
221	18.42	0.13	0.064	(0.096)	0.058	0.006
222	18.50	0.13	0.064	(0.095)	0.058	0.006
223	18.58	0.10	0.048	(0.095)	0.043	0.005
224	18.67	0.10	0.048	(0.094)	0.043	0.005
225	18.75	0.10	0.048	(0.094)	0.043	0.005
226	18.83	0.07	0.032	(0.093)	0.029	0.003
227	18.92	0.07	0.032	(0.093)	0.029	0.003
228	19.00	0.07	0.032	(0.092)	0.029	0.003
229	19.08	0.10	0.048	(0.092)	0.043	0.005
230	19.17	0.10	0.048	(0.091)	0.043	0.005
231	19.25	0.10	0.048	(0.091)	0.043	0.005
232	19.33	0.13	0.064	(0.091)	0.058	0.006
233	19.42	0.13	0.064	(0.090)	0.058	0.006
234	19.50	0.13	0.064	(0.090)	0.058	0.006
235	19.58	0.10	0.048	(0.089)	0.043	0.005
236	19.67	0.10	0.048	(0.089)	0.043	0.005
237	19.75	0.10	0.048	(0.089)	0.043	0.005
238	19.83	0.07	0.032	(0.088)	0.029	0.003
239	19.92	0.07	0.032	(0.088)	0.029	0.003
240	20.00	0.07	0.032	(0.087)	0.029	0.003
241	20.08	0.10	0.048	(0.087)	0.043	0.005
242	20.17	0.10	0.048	(0.087)	0.043	0.005
243	20.25	0.10	0.048	(0.086)	0.043	0.005
244	20.33	0.10	0.048	(0.086)	0.043	0.005
245	20.42	0.10	0.048	(0.086)	0.043	0.005
246	20.50	0.10	0.048	(0.085)	0.043	0.005
247	20.58	0.10	0.048	(0.085)	0.043	0.005
248	20.67	0.10	0.048	(0.084)	0.043	0.005
249	20.75	0.10	0.048	(0.084)	0.043	0.005
250	20.83	0.07	0.032	(0.084)	0.029	0.003
251	20.92	0.07	0.032	(0.083)	0.029	0.003
252	21.00	0.07	0.032	(0.083)	0.029	0.003
253	21.08	0.10	0.048	(0.083)	0.043	0.005
254	21.17	0.10	0.048	(0.082)	0.043	0.005

```
255  21.25     0.10      0.048       (  0.082)       0.043        0.005
256  21.33     0.07      0.032       (  0.082)       0.029        0.003
257  21.42     0.07      0.032       (  0.081)       0.029        0.003
258  21.50     0.07      0.032       (  0.081)       0.029        0.003
259  21.58     0.10      0.048       (  0.081)       0.043        0.005
260  21.67     0.10      0.048       (  0.081)       0.043        0.005
261  21.75     0.10      0.048       (  0.080)       0.043        0.005
262  21.83     0.07      0.032       (  0.080)       0.029        0.003
263  21.92     0.07      0.032       (  0.080)       0.029        0.003
264  22.00     0.07      0.032       (  0.079)       0.029        0.003
265  22.08     0.10      0.048       (  0.079)       0.043        0.005
266  22.17     0.10      0.048       (  0.079)       0.043        0.005
267  22.25     0.10      0.048       (  0.079)       0.043        0.005
268  22.33     0.07      0.032       (  0.078)       0.029        0.003
269  22.42     0.07      0.032       (  0.078)       0.029        0.003
270  22.50     0.07      0.032       (  0.078)       0.029        0.003
271  22.58     0.07      0.032       (  0.078)       0.029        0.003
272  22.67     0.07      0.032       (  0.078)       0.029        0.003
273  22.75     0.07      0.032       (  0.077)       0.029        0.003
274  22.83     0.07      0.032       (  0.077)       0.029        0.003
275  22.92     0.07      0.032       (  0.077)       0.029        0.003
276  23.00     0.07      0.032       (  0.077)       0.029        0.003
277  23.08     0.07      0.032       (  0.077)       0.029        0.003
278  23.17     0.07      0.032       (  0.076)       0.029        0.003
279  23.25     0.07      0.032       (  0.076)       0.029        0.003
280  23.33     0.07      0.032       (  0.076)       0.029        0.003
281  23.42     0.07      0.032       (  0.076)       0.029        0.003
282  23.50     0.07      0.032       (  0.076)       0.029        0.003
283  23.58     0.07      0.032       (  0.076)       0.029        0.003
284  23.67     0.07      0.032       (  0.076)       0.029        0.003
285  23.75     0.07      0.032       (  0.075)       0.029        0.003
286  23.83     0.07      0.032       (  0.075)       0.029        0.003
287  23.92     0.07      0.032       (  0.075)       0.029        0.003
288  24.00     0.07      0.032       (  0.075)       0.029        0.003
          (Loss Rate Not Used)
    Sum =     100.0                                    Sum =    21.4
     Flood volume = Effective rainfall      1.78(In)
      times area       5.6(Ac.)/[(In)/(Ft.)] =       0.8(Ac.Ft)
     Total soil loss =      2.22(In)
     Total soil loss =     1.031(Ac.Ft)
     Total rainfall =      4.00(In)
     Flood volume =       36120.1 Cubic Feet
     Total soil loss =       44900.6 Cubic Feet
     ---------------------------------------------------------------------
      Peak flow rate of this hydrograph =      2.333(CFS)
     ---------------------------------------------------------------------
     +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        24 - H O U R    S T O R M
                    R u n o f f      H y d r o g r a p h
     ---------------------------------------------------------------------
                 Hydrograph in   5   Minute intervals ((CFS))

     ---------------------------------------------------------------------
 Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
 ----------------------------------------------------------------------
   0+ 5       0.0001      0.01  Q         |         |         |         |
   0+10       0.0002      0.02  Q         |         |         |         |
   0+15       0.0003      0.02  Q         |         |         |         |
   0+20       0.0004      0.02  Q         |         |         |         |
   0+25       0.0006      0.03  Q         |         |         |         |
```

0+30	0.0008	0.03	Q	|	|	|	|
0+35	0.0010	0.03	Q	|	|	|	|
0+40	0.0012	0.03	Q	|	|	|	|
0+45	0.0013	0.03	Q	|	|	|	|
0+50	0.0016	0.03	Q	|	|	|	|
0+55	0.0018	0.03	Q	|	|	|	|
1+ 0	0.0020	0.04	Q	|	|	|	|
1+ 5	0.0023	0.03	Q	|	|	|	|
1+10	0.0025	0.03	Q	|	|	|	|
1+15	0.0026	0.03	Q	|	|	|	|
1+20	0.0028	0.03	Q	|	|	|	|
1+25	0.0030	0.03	Q	|	|	|	|
1+30	0.0032	0.03	Q	|	|	|	|
1+35	0.0034	0.03	Q	|	|	|	|
1+40	0.0036	0.03	Q	|	|	|	|
1+45	0.0038	0.03	Q	|	|	|	|
1+50	0.0040	0.03	Q	|	|	|	|
1+55	0.0042	0.03	Q	|	|	|	|
2+ 0	0.0045	0.04	Q	|	|	|	|
2+ 5	0.0047	0.04	Q	|	|	|	|
2+10	0.0050	0.04	Q	|	|	|	|
2+15	0.0052	0.04	Q	|	|	|	|
2+20	0.0055	0.04	Q	|	|	|	|
2+25	0.0057	0.04	Q	|	|	|	|
2+30	0.0059	0.04	Q	|	|	|	|
2+35	0.0062	0.04	Q	|	|	|	|
2+40	0.0065	0.04	Q	|	|	|	|
2+45	0.0068	0.04	Q	|	|	|	|
2+50	0.0071	0.04	Q	|	|	|	|
2+55	0.0075	0.05	Q	|	|	|	|
3+ 0	0.0078	0.05	Q	|	|	|	|
3+ 5	0.0081	0.05	Q	|	|	|	|
3+10	0.0084	0.05	Q	|	|	|	|
3+15	0.0087	0.05	Q	|	|	|	|
3+20	0.0090	0.05	Q	|	|	|	|
3+25	0.0093	0.05	Q	|	|	|	|
3+30	0.0096	0.05	Q	|	|	|	|
3+35	0.0099	0.05	Q	|	|	|	|
3+40	0.0102	0.05	Q	|	|	|	|
3+45	0.0106	0.05	Q	|	|	|	|
3+50	0.0109	0.05	Q	|	|	|	|
3+55	0.0113	0.05	Q	|	|	|	|
4+ 0	0.0116	0.05	Q	|	|	|	|
4+ 5	0.0120	0.05	Q	|	|	|	|
4+10	0.0124	0.05	Q	|	|	|	|
4+15	0.0127	0.05	Q	|	|	|	|
4+20	0.0131	0.06	Q	|	|	|	|
4+25	0.0136	0.06	Q	|	|	|	|
4+30	0.0140	0.06	Q	|	|	|	|
4+35	0.0144	0.06	Q	|	|	|	|
4+40	0.0149	0.06	Q	|	|	|	|
4+45	0.0153	0.06	Q	|	|	|	|
4+50	0.0158	0.07	Q	|	|	|	|
4+55	0.0162	0.07	Q	|	|	|	|
5+ 0	0.0167	0.07	Q	|	|	|	|
5+ 5	0.0172	0.06	Q	|	|	|	|
5+10	0.0176	0.06	Q	|	|	|	|
5+15	0.0179	0.05	Q	|	|	|	|
5+20	0.0183	0.06	Q	|	|	|	|
5+25	0.0188	0.06	Q	|	|	|	|

5+30	0.0192	0.06	Q	|	|	|	|
5+35	0.0197	0.07	Q	|	|	|	|
5+40	0.0201	0.07	Q	|	|	|	|
5+45	0.0206	0.07	Q	|	|	|	|
5+50	0.0211	0.07	QV	|	|	|	|
5+55	0.0216	0.07	QV	|	|	|	|
6+ 0	0.0221	0.07	QV	|	|	|	|
6+ 5	0.0227	0.08	QV	|	|	|	|
6+10	0.0232	0.08	QV	|	|	|	|
6+15	0.0238	0.08	QV	|	|	|	|
6+20	0.0243	0.08	QV	|	|	|	|
6+25	0.0249	0.08	QV	|	|	|	|
6+30	0.0254	0.08	QV	|	|	|	|
6+35	0.0260	0.08	QV	|	|	|	|
6+40	0.0266	0.09	QV	|	|	|	|
6+45	0.0272	0.09	QV	|	|	|	|
6+50	0.0279	0.09	QV	|	|	|	|
6+55	0.0285	0.09	QV	|	|	|	|
7+ 0	0.0291	0.09	QV	|	|	|	|
7+ 5	0.0297	0.09	QV	|	|	|	|
7+10	0.0303	0.09	QV	|	|	|	|
7+15	0.0310	0.09	QV	|	|	|	|
7+20	0.0316	0.09	QV	|	|	|	|
7+25	0.0323	0.10	QV	|	|	|	|
7+30	0.0330	0.10	QV	|	|	|	|
7+35	0.0337	0.10	QV	|	|	|	|
7+40	0.0344	0.11	QV	|	|	|	|
7+45	0.0351	0.11	QV	|	|	|	|
7+50	0.0360	0.13	QV	|	|	|	|
7+55	0.0371	0.15	QV	|	|	|	|
8+ 0	0.0382	0.16	QV	|	|	|	|
8+ 5	0.0399	0.25	QV	|	|	|	|
8+10	0.0422	0.33	|QV	|	|	|	|
8+15	0.0446	0.35	|QV	|	|	|	|
8+20	0.0471	0.36	|QV	|	|	|	|
8+25	0.0496	0.37	|QV	|	|	|	|
8+30	0.0522	0.37	|QV	|	|	|	|
8+35	0.0550	0.42	|QV	|	|	|	|
8+40	0.0582	0.46	|QV	|	|	|	|
8+45	0.0615	0.47	|QV	|	|	|	|
8+50	0.0650	0.52	| QV	|	|	|	|
8+55	0.0689	0.56	| QV	|	|	|	|
9+ 0	0.0729	0.58	| QV	|	|	|	|
9+ 5	0.0774	0.66	| QV	|	|	|	|
9+10	0.0826	0.74	| QV	|	|	|	|
9+15	0.0878	0.76	| QV	|	|	|	|
9+20	0.0934	0.81	| QV	|	|	|	|
9+25	0.0994	0.86	| QV	|	|	|	|
9+30	0.1054	0.87	| Q V	|	|	|	|
9+35	0.1117	0.92	| Q V	|	|	|	|
9+40	0.1183	0.96	| Q V	|	|	|	|
9+45	0.1250	0.98	| Q V	|	|	|	|
9+50	0.1321	1.02	| Q V	|	|	|	|
9+55	0.1394	1.07	| Q V	|	|	|	|
10+ 0	0.1469	1.08	| Q V	|	|	|	|
10+ 5	0.1525	0.81	| Q V	|	|	|	|
10+10	0.1562	0.55	| Q V	|	|	|	|
10+15	0.1596	0.49	|Q V	|	|	|	|
10+20	0.1629	0.48	|Q V	|	|	|	|
10+25	0.1662	0.47	|Q V	|	|	|	|



```
15+30       0.7592      1.43  |    Q    |         |         |     V   |
15+35       0.7680      1.28  |    Q    |         |         |      V  |
15+40       0.7757      1.12  |   Q     |         |         |      V  |
15+45       0.7833      1.09  |   Q     |         |         |      V  |
15+50       0.7907      1.08  |   Q     |         |         |       V |
15+55       0.7982      1.08  |   Q     |         |         |       V |
16+ 0       0.8057      1.09  |   Q     |         |         |       V |
16+ 5       0.8100      0.63  | Q       |         |         |        V|
16+10       0.8112      0.18  Q         |         |         |        V|
16+15       0.8118      0.08  Q         |         |         |        V|
16+20       0.8122      0.05  Q         |         |         |        V|
16+25       0.8124      0.04  Q         |         |         |        V|
16+30       0.8126      0.04  Q         |         |         |        V|
16+35       0.8129      0.03  Q         |         |         |        V|
16+40       0.8131      0.03  Q         |         |         |        V|
16+45       0.8133      0.03  Q         |         |         |        V|
16+50       0.8134      0.03  Q         |         |         |        V|
16+55       0.8136      0.03  Q         |         |         |        V|
17+ 0       0.8138      0.03  Q         |         |         |        V|
17+ 5       0.8141      0.03  Q         |         |         |        V|
17+10       0.8143      0.04  Q         |         |         |        V|
17+15       0.8146      0.04  Q         |         |         |        V|
17+20       0.8150      0.04  Q         |         |         |        V|
17+25       0.8153      0.05  Q         |         |         |        V|
17+30       0.8156      0.05  Q         |         |         |        V|
17+35       0.8159      0.05  Q         |         |         |        V|
17+40       0.8162      0.05  Q         |         |         |        V|
17+45       0.8165      0.05  Q         |         |         |        V|
17+50       0.8168      0.04  Q         |         |         |        V|
17+55       0.8170      0.04  Q         |         |         |        V|
18+ 0       0.8173      0.04  Q         |         |         |        V|
18+ 5       0.8175      0.04  Q         |         |         |        V|
18+10       0.8178      0.04  Q         |         |         |        V|
18+15       0.8180      0.04  Q         |         |         |        V|
18+20       0.8183      0.04  Q         |         |         |        V|
18+25       0.8185      0.04  Q         |         |         |        V|
18+30       0.8188      0.04  Q         |         |         |        V|
18+35       0.8190      0.03  Q         |         |         |        V|
18+40       0.8192      0.03  Q         |         |         |        V|
18+45       0.8194      0.03  Q         |         |         |        V|
18+50       0.8196      0.02  Q         |         |         |        V|
18+55       0.8197      0.02  Q         |         |         |        V|
19+ 0       0.8198      0.02  Q         |         |         |        V|
19+ 5       0.8200      0.02  Q         |         |         |        V|
19+10       0.8201      0.03  Q         |         |         |        V|
19+15       0.8203      0.03  Q         |         |         |        V|
19+20       0.8205      0.03  Q         |         |         |        V|
19+25       0.8208      0.03  Q         |         |         |        V|
19+30       0.8210      0.04  Q         |         |         |        V|
19+35       0.8212      0.03  Q         |         |         |        V|
19+40       0.8214      0.03  Q         |         |         |        V|
19+45       0.8216      0.03  Q         |         |         |        V|
19+50       0.8218      0.02  Q         |         |         |        V|
19+55       0.8219      0.02  Q         |         |         |        V|
20+ 0       0.8220      0.02  Q         |         |         |        V|
20+ 5       0.8222      0.02  Q         |         |         |        V|
20+10       0.8224      0.03  Q         |         |         |        V|
20+15       0.8226      0.03  Q         |         |         |        V|
20+20       0.8227      0.03  Q         |         |         |        V|
20+25       0.8229      0.03  Q         |         |         |        V|
```

```
  20+30      0.8231     0.03  Q          |          |          |         V|
  20+35      0.8233     0.03  Q          |          |          |         V|
  20+40      0.8235     0.03  Q          |          |          |         V|
  20+45      0.8237     0.03  Q          |          |          |         V|
  20+50      0.8238     0.02  Q          |          |          |         V|
  20+55      0.8240     0.02  Q          |          |          |         V|
  21+ 0      0.8241     0.02  Q          |          |          |         V|
  21+ 5      0.8242     0.02  Q          |          |          |         V|
  21+10      0.8244     0.03  Q          |          |          |         V|
  21+15      0.8246     0.03  Q          |          |          |         V|
  21+20      0.8248     0.02  Q          |          |          |         V|
  21+25      0.8249     0.02  Q          |          |          |         V|
  21+30      0.8250     0.02  Q          |          |          |         V|
  21+35      0.8252     0.02  Q          |          |          |         V|
  21+40      0.8253     0.03  Q          |          |          |         V|
  21+45      0.8255     0.03  Q          |          |          |         V|
  21+50      0.8257     0.02  Q          |          |          |         V|
  21+55      0.8258     0.02  Q          |          |          |         V|
  22+ 0      0.8259     0.02  Q          |          |          |         V|
  22+ 5      0.8261     0.02  Q          |          |          |         V|
  22+10      0.8263     0.03  Q          |          |          |         V|
  22+15      0.8265     0.03  Q          |          |          |         V|
  22+20      0.8266     0.02  Q          |          |          |         V|
  22+25      0.8268     0.02  Q          |          |          |         V|
  22+30      0.8269     0.02  Q          |          |          |         V|
  22+35      0.8270     0.02  Q          |          |          |         V|
  22+40      0.8271     0.02  Q          |          |          |         V|
  22+45      0.8273     0.02  Q          |          |          |         V|
  22+50      0.8274     0.02  Q          |          |          |         V|
  22+55      0.8275     0.02  Q          |          |          |         V|
  23+ 0      0.8276     0.02  Q          |          |          |         V|
  23+ 5      0.8277     0.02  Q          |          |          |         V|
  23+10      0.8279     0.02  Q          |          |          |         V|
  23+15      0.8280     0.02  Q          |          |          |         V|
  23+20      0.8281     0.02  Q          |          |          |         V|
  23+25      0.8282     0.02  Q          |          |          |         V|
  23+30      0.8284     0.02  Q          |          |          |         V|
  23+35      0.8285     0.02  Q          |          |          |         V|
  23+40      0.8286     0.02  Q          |          |          |         V|
  23+45      0.8287     0.02  Q          |          |          |         V|
  23+50      0.8289     0.02  Q          |          |          |         V|
  23+55      0.8290     0.02  Q          |          |          |         V|
  24+ 0      0.8291     0.02  Q          |          |          |         V|
  24+ 5      0.8292     0.01  Q          |          |          |         V|
  24+10      0.8292     0.00  Q          |          |          |         V|
  24+15      0.8292     0.00  Q          |          |          |         V|
  24+20      0.8292     0.00  Q          |          |          |          V
-------------------------------------------------------------------------
```

DEVELOPED CONDITION HYDROLOGY

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV12.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
2-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.50	2.88

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.20	6.92

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
		Sum = 100.000	Sum= 5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.40	0.204	(0.100)	0.037	0.167
2	0.17	4.70	0.282	(0.100)	0.051	0.231
3	0.25	4.70	0.282	(0.100)	0.051	0.231
4	0.33	5.10	0.306	(0.100)	0.055	0.251
5	0.42	5.80	0.348	(0.100)	0.063	0.285
6	0.50	5.90	0.354	(0.100)	0.064	0.290
7	0.58	7.10	0.426	(0.100)	0.077	0.349
8	0.67	8.70	0.522	(0.100)	0.094	0.428
9	0.75	13.20	0.792	0.100	(0.143)	0.692
10	0.83	29.70	1.782	0.100	(0.321)	1.682
11	0.92	7.70	0.462	(0.100)	0.083	0.379
12	1.00	4.00	0.240	(0.100)	0.043	0.197
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	5.2

Flood volume = Effective rainfall 0.43(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)

```
    Total soil loss =      0.07(In)
    Total soil loss =     0.033(Ac.Ft)
    Total rainfall =      0.50(In)
    Flood volume =        9047.4 Cubic Feet
    Total soil loss =        1424.6 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =      9.787(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        1 - H O U R    S T O R M
                   R u n o f f      H y d r o g r a p h
    ---------------------------------------------------------------------
                Hydrograph in   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
  ------------------------------------------------------------------------
    0+ 5       0.0067      0.97  |V Q      |         |         |         |
    0+10       0.0160      1.35  |  V Q    |         |         |         |
    0+15       0.0252      1.35  |   VQ    |         |         |         |
    0+20       0.0353      1.46  |    QV   |         |         |         |
    0+25       0.0467      1.66  |     Q V |         |         |         |
    0+30       0.0584      1.69  |     Q   |V        |         |         |
    0+35       0.0723      2.03  |       Q |  V      |         |         |
    0+40       0.0895      2.49  |        Q|      V  |         |         |
    0+45       0.1172      4.03  |         |     Q   | V       |         |
    0+50       0.1846      9.79  |         |         |         |    V   Q|
    0+55       0.1998      2.20  |       Q |         |         |       V |
    1+ 0       0.2077      1.14  |   Q     |         |         |         V
  ------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV32.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
2-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.80	4.62

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.80	10.39

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.100)	0.022	0.102
2	0.17	1.30	0.125	(0.100)	0.022	0.102
3	0.25	1.10	0.106	(0.100)	0.019	0.087
4	0.33	1.50	0.144	(0.100)	0.026	0.118
5	0.42	1.50	0.144	(0.100)	0.026	0.118
6	0.50	1.80	0.173	(0.100)	0.031	0.142
7	0.58	1.50	0.144	(0.100)	0.026	0.118
8	0.67	1.80	0.173	(0.100)	0.031	0.142
9	0.75	1.80	0.173	(0.100)	0.031	0.142
10	0.83	1.50	0.144	(0.100)	0.026	0.118
11	0.92	1.60	0.154	(0.100)	0.028	0.126
12	1.00	1.80	0.173	(0.100)	0.031	0.142
13	1.08	2.20	0.211	(0.100)	0.038	0.173
14	1.17	2.20	0.211	(0.100)	0.038	0.173
15	1.25	2.20	0.211	(0.100)	0.038	0.173
16	1.33	2.00	0.192	(0.100)	0.035	0.157
17	1.42	2.60	0.250	(0.100)	0.045	0.205
18	1.50	2.70	0.259	(0.100)	0.047	0.213

19	1.58	2.40	0.230	(0.100)	0.041	0.189
20	1.67	2.70	0.259	(0.100)	0.047	0.213
21	1.75	3.30	0.317	(0.100)	0.057	0.260
22	1.83	3.10	0.298	(0.100)	0.054	0.244
23	1.92	2.90	0.278	(0.100)	0.050	0.228
24	2.00	3.00	0.288	(0.100)	0.052	0.236
25	2.08	3.10	0.298	(0.100)	0.054	0.244
26	2.17	4.20	0.403	(0.100)	0.073	0.331
27	2.25	5.00	0.480	(0.100)	0.086	0.394
28	2.33	3.50	0.336	(0.100)	0.060	0.276
29	2.42	6.80	0.653	0.100	(0.118)	0.553
30	2.50	7.30	0.701	0.100	(0.126)	0.601
31	2.58	8.20	0.787	0.100	(0.142)	0.687
32	2.67	5.90	0.566	0.100	(0.102)	0.467
33	2.75	2.00	0.192	(0.100)	0.035	0.157
34	2.83	1.80	0.173	(0.100)	0.031	0.142
35	2.92	1.80	0.173	(0.100)	0.031	0.142
36	3.00	0.60	0.058	(0.100)	0.010	0.047

(Loss Rate Not Used)

Sum = 100.0 Sum = 8.0

Flood volume = Effective rainfall 0.66(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.066(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 13893.6 Cubic Feet
Total soil loss = 2862.0 Cubic Feet

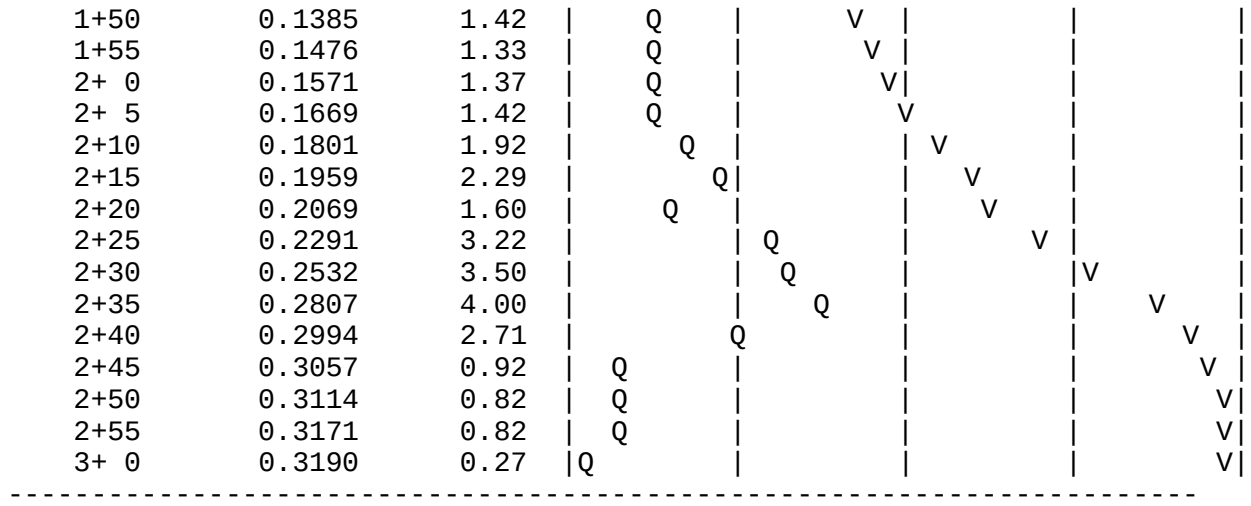
Peak flow rate of this hydrograph = 3.999(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0041	0.60	V Q				
0+10	0.0082	0.60	|VQ				
0+15	0.0117	0.50	|VQ				
0+20	0.0164	0.69	| Q				
0+25	0.0211	0.69	| Q				
0+30	0.0268	0.82	| Q				
0+35	0.0315	0.69	| QV				
0+40	0.0372	0.82	| QV				
0+45	0.0429	0.82	| Q V				
0+50	0.0476	0.69	| Q V				
0+55	0.0527	0.73	| Q V				
1+ 0	0.0584	0.82	| Q V				
1+ 5	0.0653	1.01	| Q V				
1+10	0.0722	1.01	| Q V				
1+15	0.0792	1.01	| Q V				
1+20	0.0855	0.92	| Q V				
1+25	0.0937	1.19	| Q |V				
1+30	0.1022	1.24	| Q | V				
1+35	0.1098	1.10	| Q | V				
1+40	0.1183	1.24	| Q | V				
1+45	0.1287	1.51	| Q | V				


1+50 0.1385 1.42
1+55 0.1476 1.33
2+ 0 0.1571 1.37
2+ 5 0.1669 1.42
2+10 0.1801 1.92
2+15 0.1959 2.29
2+20 0.2069 1.60
2+25 0.2291 3.22
2+30 0.2532 3.50
2+35 0.2807 4.00
2+40 0.2994 2.71
2+45 0.3057 0.92
2+50 0.3114 0.82
2+55 0.3171 0.82
3+ 0 0.3190 0.27

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV62.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
2-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.00	5.77

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	2.50	14.42

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.000(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.000(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.060	(0.100)	0.011	0.049
2	0.17	0.60	0.072	(0.100)	0.013	0.059
3	0.25	0.60	0.072	(0.100)	0.013	0.059
4	0.33	0.60	0.072	(0.100)	0.013	0.059
5	0.42	0.60	0.072	(0.100)	0.013	0.059
6	0.50	0.70	0.084	(0.100)	0.015	0.069
7	0.58	0.70	0.084	(0.100)	0.015	0.069
8	0.67	0.70	0.084	(0.100)	0.015	0.069
9	0.75	0.70	0.084	(0.100)	0.015	0.069
10	0.83	0.70	0.084	(0.100)	0.015	0.069
11	0.92	0.70	0.084	(0.100)	0.015	0.069
12	1.00	0.80	0.096	(0.100)	0.017	0.079
13	1.08	0.80	0.096	(0.100)	0.017	0.079
14	1.17	0.80	0.096	(0.100)	0.017	0.079
15	1.25	0.80	0.096	(0.100)	0.017	0.079
16	1.33	0.80	0.096	(0.100)	0.017	0.079
17	1.42	0.80	0.096	(0.100)	0.017	0.079
18	1.50	0.80	0.096	(0.100)	0.017	0.079

19	1.58	0.80	0.096	(0.100)	0.017	0.079
20	1.67	0.80	0.096	(0.100)	0.017	0.079
21	1.75	0.80	0.096	(0.100)	0.017	0.079
22	1.83	0.80	0.096	(0.100)	0.017	0.079
23	1.92	0.80	0.096	(0.100)	0.017	0.079
24	2.00	0.90	0.108	(0.100)	0.019	0.089
25	2.08	0.80	0.096	(0.100)	0.017	0.079
26	2.17	0.90	0.108	(0.100)	0.019	0.089
27	2.25	0.90	0.108	(0.100)	0.019	0.089
28	2.33	0.90	0.108	(0.100)	0.019	0.089
29	2.42	0.90	0.108	(0.100)	0.019	0.089
30	2.50	0.90	0.108	(0.100)	0.019	0.089
31	2.58	0.90	0.108	(0.100)	0.019	0.089
32	2.67	0.90	0.108	(0.100)	0.019	0.089
33	2.75	1.00	0.120	(0.100)	0.022	0.098
34	2.83	1.00	0.120	(0.100)	0.022	0.098
35	2.92	1.00	0.120	(0.100)	0.022	0.098
36	3.00	1.00	0.120	(0.100)	0.022	0.098
37	3.08	1.00	0.120	(0.100)	0.022	0.098
38	3.17	1.10	0.132	(0.100)	0.024	0.108
39	3.25	1.10	0.132	(0.100)	0.024	0.108
40	3.33	1.10	0.132	(0.100)	0.024	0.108
41	3.42	1.20	0.144	(0.100)	0.026	0.118
42	3.50	1.30	0.156	(0.100)	0.028	0.128
43	3.58	1.40	0.168	(0.100)	0.030	0.138
44	3.67	1.40	0.168	(0.100)	0.030	0.138
45	3.75	1.50	0.180	(0.100)	0.032	0.148
46	3.83	1.50	0.180	(0.100)	0.032	0.148
47	3.92	1.60	0.192	(0.100)	0.035	0.157
48	4.00	1.60	0.192	(0.100)	0.035	0.157
49	4.08	1.70	0.204	(0.100)	0.037	0.167
50	4.17	1.80	0.216	(0.100)	0.039	0.177
51	4.25	1.90	0.228	(0.100)	0.041	0.187
52	4.33	2.00	0.240	(0.100)	0.043	0.197
53	4.42	2.10	0.252	(0.100)	0.045	0.207
54	4.50	2.10	0.252	(0.100)	0.045	0.207
55	4.58	2.20	0.264	(0.100)	0.048	0.216
56	4.67	2.30	0.276	(0.100)	0.050	0.226
57	4.75	2.40	0.288	(0.100)	0.052	0.236
58	4.83	2.40	0.288	(0.100)	0.052	0.236
59	4.92	2.50	0.300	(0.100)	0.054	0.246
60	5.00	2.60	0.312	(0.100)	0.056	0.256
61	5.08	3.10	0.372	(0.100)	0.067	0.305
62	5.17	3.60	0.432	(0.100)	0.078	0.354
63	5.25	3.90	0.468	(0.100)	0.084	0.384
64	5.33	4.20	0.504	(0.100)	0.091	0.413
65	5.42	4.70	0.564	0.100	(0.102)	0.464
66	5.50	5.60	0.672	0.100	(0.121)	0.572
67	5.58	1.90	0.228	(0.100)	0.041	0.187
68	5.67	0.90	0.108	(0.100)	0.019	0.089
69	5.75	0.60	0.072	(0.100)	0.013	0.059
70	5.83	0.50	0.060	(0.100)	0.011	0.049
71	5.92	0.30	0.036	(0.100)	0.006	0.030
72	6.00	0.20	0.024	(0.100)	0.004	0.020

(Loss Rate Not Used)

Sum = 100.0 Sum = 9.9

Flood volume = Effective rainfall 0.82(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.4(Ac.Ft)
Total soil loss = 0.18(In)
Total soil loss = 0.086(Ac.Ft)

Total rainfall = 1.00(In)
Flood volume = 17214.7 Cubic Feet
Total soil loss = 3730.0 Cubic Feet

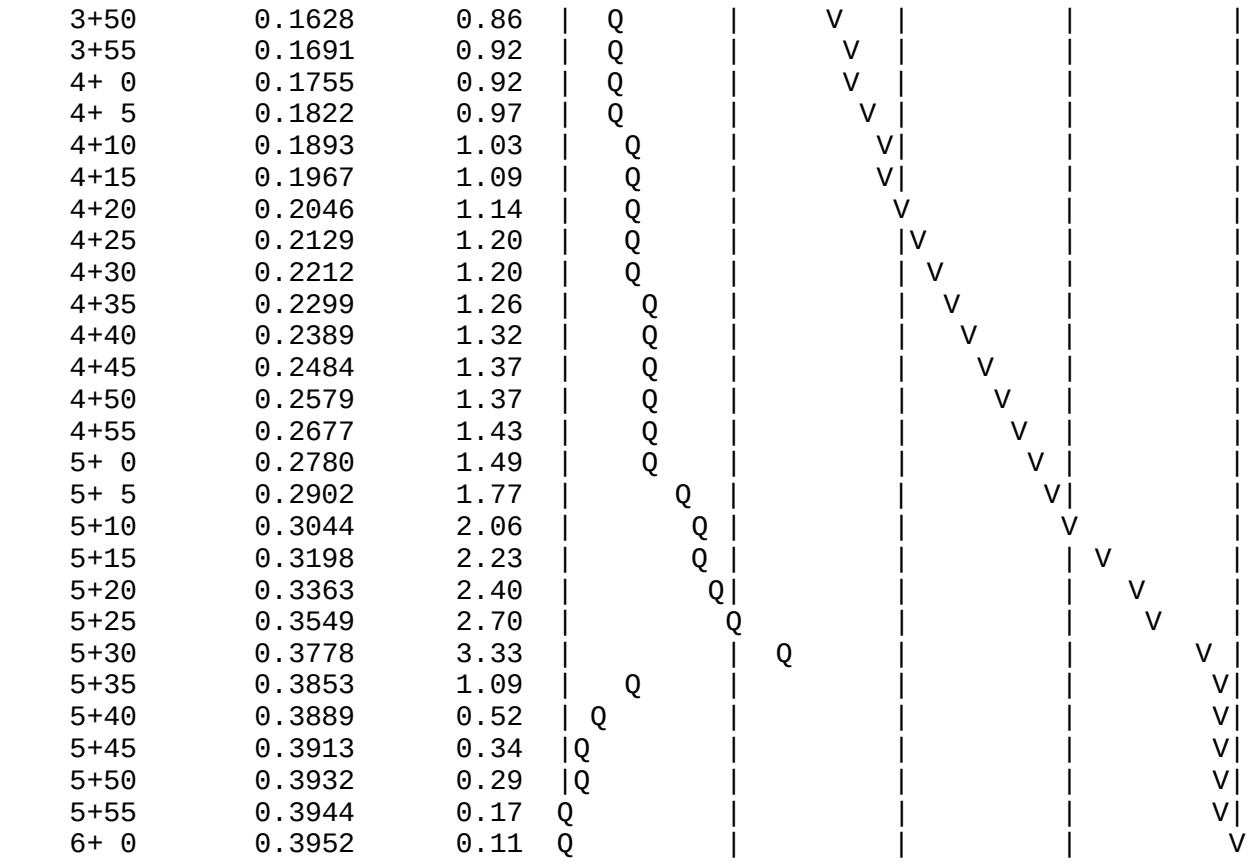
Peak flow rate of this hydrograph = 3.329(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0020	0.29	VQ				
0+10	0.0043	0.34	VQ				
0+15	0.0067	0.34	VQ				
0+20	0.0091	0.34	VQ				
0+25	0.0114	0.34	|Q				
0+30	0.0142	0.40	|Q				
0+35	0.0170	0.40	|Q				
0+40	0.0197	0.40	|Q				
0+45	0.0225	0.40	|QV				
0+50	0.0252	0.40	|QV				
0+55	0.0280	0.40	|QV				
1+ 0	0.0311	0.46	|Q V				
1+ 5	0.0343	0.46	|Q V				
1+10	0.0375	0.46	|Q V				
1+15	0.0406	0.46	|Q V				
1+20	0.0438	0.46	|Q V				
1+25	0.0469	0.46	|Q V				
1+30	0.0501	0.46	|Q V				
1+35	0.0532	0.46	|Q V				
1+40	0.0564	0.46	|Q V				
1+45	0.0595	0.46	|Q V				
1+50	0.0627	0.46	|Q V				
1+55	0.0658	0.46	|Q V				
2+ 0	0.0694	0.52	| Q V				
2+ 5	0.0725	0.46	|Q V				
2+10	0.0761	0.52	| Q V				
2+15	0.0796	0.52	| Q V				
2+20	0.0832	0.52	| Q V				
2+25	0.0867	0.52	| Q V				
2+30	0.0903	0.52	| Q V				
2+35	0.0938	0.52	| Q V				
2+40	0.0974	0.52	| Q V				
2+45	0.1013	0.57	| Q V				
2+50	0.1053	0.57	| Q V				
2+55	0.1092	0.57	| Q |V				
3+ 0	0.1132	0.57	| Q |V				
3+ 5	0.1171	0.57	| Q |V				
3+10	0.1214	0.63	| Q | V				
3+15	0.1258	0.63	| Q | V				
3+20	0.1301	0.63	| Q | V				
3+25	0.1348	0.69	| Q | V				
3+30	0.1400	0.74	| Q | V				
3+35	0.1455	0.80	| Q | V				
3+40	0.1510	0.80	| Q | V				
3+45	0.1569	0.86	| Q | V				



3+50	0.1628	0.86	Q		V		
3+55	0.1691	0.92	Q		V		
4+ 0	0.1755	0.92	Q		V		
4+ 5	0.1822	0.97	Q		V		
4+10	0.1893	1.03	Q		V		
4+15	0.1967	1.09	Q		V		
4+20	0.2046	1.14	Q		V		
4+25	0.2129	1.20	Q		V		
4+30	0.2212	1.20	Q		V		
4+35	0.2299	1.26	Q		V		
4+40	0.2389	1.32	Q		V		
4+45	0.2484	1.37	Q		V		
4+50	0.2579	1.37	Q		V		
4+55	0.2677	1.43	Q		V		
5+ 0	0.2780	1.49	Q		V		
5+ 5	0.2902	1.77	Q		V		
5+10	0.3044	2.06	Q		V		
5+15	0.3198	2.23	Q		V		
5+20	0.3363	2.40	Q		V		
5+25	0.3549	2.70	Q		V		
5+30	0.3778	3.33	Q		V		
5+35	0.3853	1.09	Q		V		
5+40	0.3889	0.52	Q		V		
5+45	0.3913	0.34	Q		V		
5+50	0.3932	0.29	Q		V		
5+55	0.3944	0.17	Q		V		
6+ 0	0.3952	0.11	Q		V		

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
2-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.60	9.23

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	4.00	23.08

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 1.600(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.600(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.013	(0.177)	0.002	0.010
2	0.17	0.07	0.013	(0.176)	0.002	0.010
3	0.25	0.07	0.013	(0.175)	0.002	0.010
4	0.33	0.10	0.019	(0.175)	0.003	0.016
5	0.42	0.10	0.019	(0.174)	0.003	0.016
6	0.50	0.10	0.019	(0.173)	0.003	0.016
7	0.58	0.10	0.019	(0.173)	0.003	0.016
8	0.67	0.10	0.019	(0.172)	0.003	0.016
9	0.75	0.10	0.019	(0.171)	0.003	0.016
10	0.83	0.13	0.026	(0.171)	0.005	0.021
11	0.92	0.13	0.026	(0.170)	0.005	0.021
12	1.00	0.13	0.026	(0.169)	0.005	0.021
13	1.08	0.10	0.019	(0.169)	0.003	0.016
14	1.17	0.10	0.019	(0.168)	0.003	0.016
15	1.25	0.10	0.019	(0.167)	0.003	0.016
16	1.33	0.10	0.019	(0.167)	0.003	0.016
17	1.42	0.10	0.019	(0.166)	0.003	0.016
18	1.50	0.10	0.019	(0.165)	0.003	0.016

19	1.58	0.10	0.019	(0.165)	0.003	0.016
20	1.67	0.10	0.019	(0.164)	0.003	0.016
21	1.75	0.10	0.019	(0.163)	0.003	0.016
22	1.83	0.13	0.026	(0.163)	0.005	0.021
23	1.92	0.13	0.026	(0.162)	0.005	0.021
24	2.00	0.13	0.026	(0.161)	0.005	0.021
25	2.08	0.13	0.026	(0.161)	0.005	0.021
26	2.17	0.13	0.026	(0.160)	0.005	0.021
27	2.25	0.13	0.026	(0.160)	0.005	0.021
28	2.33	0.13	0.026	(0.159)	0.005	0.021
29	2.42	0.13	0.026	(0.158)	0.005	0.021
30	2.50	0.13	0.026	(0.158)	0.005	0.021
31	2.58	0.17	0.032	(0.157)	0.006	0.026
32	2.67	0.17	0.032	(0.156)	0.006	0.026
33	2.75	0.17	0.032	(0.156)	0.006	0.026
34	2.83	0.17	0.032	(0.155)	0.006	0.026
35	2.92	0.17	0.032	(0.154)	0.006	0.026
36	3.00	0.17	0.032	(0.154)	0.006	0.026
37	3.08	0.17	0.032	(0.153)	0.006	0.026
38	3.17	0.17	0.032	(0.152)	0.006	0.026
39	3.25	0.17	0.032	(0.152)	0.006	0.026
40	3.33	0.17	0.032	(0.151)	0.006	0.026
41	3.42	0.17	0.032	(0.151)	0.006	0.026
42	3.50	0.17	0.032	(0.150)	0.006	0.026
43	3.58	0.17	0.032	(0.149)	0.006	0.026
44	3.67	0.17	0.032	(0.149)	0.006	0.026
45	3.75	0.17	0.032	(0.148)	0.006	0.026
46	3.83	0.20	0.038	(0.147)	0.007	0.031
47	3.92	0.20	0.038	(0.147)	0.007	0.031
48	4.00	0.20	0.038	(0.146)	0.007	0.031
49	4.08	0.20	0.038	(0.146)	0.007	0.031
50	4.17	0.20	0.038	(0.145)	0.007	0.031
51	4.25	0.20	0.038	(0.144)	0.007	0.031
52	4.33	0.23	0.045	(0.144)	0.008	0.037
53	4.42	0.23	0.045	(0.143)	0.008	0.037
54	4.50	0.23	0.045	(0.142)	0.008	0.037
55	4.58	0.23	0.045	(0.142)	0.008	0.037
56	4.67	0.23	0.045	(0.141)	0.008	0.037
57	4.75	0.23	0.045	(0.141)	0.008	0.037
58	4.83	0.27	0.051	(0.140)	0.009	0.042
59	4.92	0.27	0.051	(0.139)	0.009	0.042
60	5.00	0.27	0.051	(0.139)	0.009	0.042
61	5.08	0.20	0.038	(0.138)	0.007	0.031
62	5.17	0.20	0.038	(0.138)	0.007	0.031
63	5.25	0.20	0.038	(0.137)	0.007	0.031
64	5.33	0.23	0.045	(0.136)	0.008	0.037
65	5.42	0.23	0.045	(0.136)	0.008	0.037
66	5.50	0.23	0.045	(0.135)	0.008	0.037
67	5.58	0.27	0.051	(0.135)	0.009	0.042
68	5.67	0.27	0.051	(0.134)	0.009	0.042
69	5.75	0.27	0.051	(0.133)	0.009	0.042
70	5.83	0.27	0.051	(0.133)	0.009	0.042
71	5.92	0.27	0.051	(0.132)	0.009	0.042
72	6.00	0.27	0.051	(0.132)	0.009	0.042
73	6.08	0.30	0.058	(0.131)	0.010	0.047
74	6.17	0.30	0.058	(0.131)	0.010	0.047
75	6.25	0.30	0.058	(0.130)	0.010	0.047
76	6.33	0.30	0.058	(0.129)	0.010	0.047
77	6.42	0.30	0.058	(0.129)	0.010	0.047
78	6.50	0.30	0.058	(0.128)	0.010	0.047

79	6.58	0.33	0.064	(0.128)	0.012	0.052
80	6.67	0.33	0.064	(0.127)	0.012	0.052
81	6.75	0.33	0.064	(0.126)	0.012	0.052
82	6.83	0.33	0.064	(0.126)	0.012	0.052
83	6.92	0.33	0.064	(0.125)	0.012	0.052
84	7.00	0.33	0.064	(0.125)	0.012	0.052
85	7.08	0.33	0.064	(0.124)	0.012	0.052
86	7.17	0.33	0.064	(0.124)	0.012	0.052
87	7.25	0.33	0.064	(0.123)	0.012	0.052
88	7.33	0.37	0.070	(0.123)	0.013	0.058
89	7.42	0.37	0.070	(0.122)	0.013	0.058
90	7.50	0.37	0.070	(0.121)	0.013	0.058
91	7.58	0.40	0.077	(0.121)	0.014	0.063
92	7.67	0.40	0.077	(0.120)	0.014	0.063
93	7.75	0.40	0.077	(0.120)	0.014	0.063
94	7.83	0.43	0.083	(0.119)	0.015	0.068
95	7.92	0.43	0.083	(0.119)	0.015	0.068
96	8.00	0.43	0.083	(0.118)	0.015	0.068
97	8.08	0.50	0.096	(0.118)	0.017	0.079
98	8.17	0.50	0.096	(0.117)	0.017	0.079
99	8.25	0.50	0.096	(0.116)	0.017	0.079
100	8.33	0.50	0.096	(0.116)	0.017	0.079
101	8.42	0.50	0.096	(0.115)	0.017	0.079
102	8.50	0.50	0.096	(0.115)	0.017	0.079
103	8.58	0.53	0.102	(0.114)	0.018	0.084
104	8.67	0.53	0.102	(0.114)	0.018	0.084
105	8.75	0.53	0.102	(0.113)	0.018	0.084
106	8.83	0.57	0.109	(0.113)	0.020	0.089
107	8.92	0.57	0.109	(0.112)	0.020	0.089
108	9.00	0.57	0.109	(0.112)	0.020	0.089
109	9.08	0.63	0.122	(0.111)	0.022	0.100
110	9.17	0.63	0.122	(0.111)	0.022	0.100
111	9.25	0.63	0.122	(0.110)	0.022	0.100
112	9.33	0.67	0.128	(0.109)	0.023	0.105
113	9.42	0.67	0.128	(0.109)	0.023	0.105
114	9.50	0.67	0.128	(0.108)	0.023	0.105
115	9.58	0.70	0.134	(0.108)	0.024	0.110
116	9.67	0.70	0.134	(0.107)	0.024	0.110
117	9.75	0.70	0.134	(0.107)	0.024	0.110
118	9.83	0.73	0.141	(0.106)	0.025	0.115
119	9.92	0.73	0.141	(0.106)	0.025	0.115
120	10.00	0.73	0.141	(0.105)	0.025	0.115
121	10.08	0.50	0.096	(0.105)	0.017	0.079
122	10.17	0.50	0.096	(0.104)	0.017	0.079
123	10.25	0.50	0.096	(0.104)	0.017	0.079
124	10.33	0.50	0.096	(0.103)	0.017	0.079
125	10.42	0.50	0.096	(0.103)	0.017	0.079
126	10.50	0.50	0.096	(0.102)	0.017	0.079
127	10.58	0.67	0.128	(0.102)	0.023	0.105
128	10.67	0.67	0.128	(0.101)	0.023	0.105
129	10.75	0.67	0.128	(0.101)	0.023	0.105
130	10.83	0.67	0.128	(0.100)	0.023	0.105
131	10.92	0.67	0.128	(0.100)	0.023	0.105
132	11.00	0.67	0.128	(0.099)	0.023	0.105
133	11.08	0.63	0.122	(0.099)	0.022	0.100
134	11.17	0.63	0.122	(0.098)	0.022	0.100
135	11.25	0.63	0.122	(0.098)	0.022	0.100
136	11.33	0.63	0.122	(0.097)	0.022	0.100
137	11.42	0.63	0.122	(0.097)	0.022	0.100
138	11.50	0.63	0.122	(0.096)	0.022	0.100

139	11.58	0.57	0.109	(0.096)	0.020	0.089
140	11.67	0.57	0.109	(0.095)	0.020	0.089
141	11.75	0.57	0.109	(0.095)	0.020	0.089
142	11.83	0.60	0.115	(0.095)	0.021	0.094
143	11.92	0.60	0.115	(0.094)	0.021	0.094
144	12.00	0.60	0.115	(0.094)	0.021	0.094
145	12.08	0.83	0.160	(0.093)	0.029	0.131
146	12.17	0.83	0.160	(0.093)	0.029	0.131
147	12.25	0.83	0.160	(0.092)	0.029	0.131
148	12.33	0.87	0.166	(0.092)	0.030	0.136
149	12.42	0.87	0.166	(0.091)	0.030	0.136
150	12.50	0.87	0.166	(0.091)	0.030	0.136
151	12.58	0.93	0.179	(0.090)	0.032	0.147
152	12.67	0.93	0.179	(0.090)	0.032	0.147
153	12.75	0.93	0.179	(0.089)	0.032	0.147
154	12.83	0.97	0.186	(0.089)	0.033	0.152
155	12.92	0.97	0.186	(0.089)	0.033	0.152
156	13.00	0.97	0.186	(0.088)	0.033	0.152
157	13.08	1.13	0.218	(0.088)	0.039	0.178
158	13.17	1.13	0.218	(0.087)	0.039	0.178
159	13.25	1.13	0.218	(0.087)	0.039	0.178
160	13.33	1.13	0.218	(0.086)	0.039	0.178
161	13.42	1.13	0.218	(0.086)	0.039	0.178
162	13.50	1.13	0.218	(0.085)	0.039	0.178
163	13.58	0.77	0.147	(0.085)	0.026	0.121
164	13.67	0.77	0.147	(0.085)	0.026	0.121
165	13.75	0.77	0.147	(0.084)	0.026	0.121
166	13.83	0.77	0.147	(0.084)	0.026	0.121
167	13.92	0.77	0.147	(0.083)	0.026	0.121
168	14.00	0.77	0.147	(0.083)	0.026	0.121
169	14.08	0.90	0.173	(0.082)	0.031	0.142
170	14.17	0.90	0.173	(0.082)	0.031	0.142
171	14.25	0.90	0.173	(0.082)	0.031	0.142
172	14.33	0.87	0.166	(0.081)	0.030	0.136
173	14.42	0.87	0.166	(0.081)	0.030	0.136
174	14.50	0.87	0.166	(0.080)	0.030	0.136
175	14.58	0.87	0.166	(0.080)	0.030	0.136
176	14.67	0.87	0.166	(0.080)	0.030	0.136
177	14.75	0.87	0.166	(0.079)	0.030	0.136
178	14.83	0.83	0.160	(0.079)	0.029	0.131
179	14.92	0.83	0.160	(0.078)	0.029	0.131
180	15.00	0.83	0.160	(0.078)	0.029	0.131
181	15.08	0.80	0.154	(0.078)	0.028	0.126
182	15.17	0.80	0.154	(0.077)	0.028	0.126
183	15.25	0.80	0.154	(0.077)	0.028	0.126
184	15.33	0.77	0.147	(0.076)	0.026	0.121
185	15.42	0.77	0.147	(0.076)	0.026	0.121
186	15.50	0.77	0.147	(0.076)	0.026	0.121
187	15.58	0.63	0.122	(0.075)	0.022	0.100
188	15.67	0.63	0.122	(0.075)	0.022	0.100
189	15.75	0.63	0.122	(0.074)	0.022	0.100
190	15.83	0.63	0.122	(0.074)	0.022	0.100
191	15.92	0.63	0.122	(0.074)	0.022	0.100
192	16.00	0.63	0.122	(0.073)	0.022	0.100
193	16.08	0.13	0.026	(0.073)	0.005	0.021
194	16.17	0.13	0.026	(0.073)	0.005	0.021
195	16.25	0.13	0.026	(0.072)	0.005	0.021
196	16.33	0.13	0.026	(0.072)	0.005	0.021
197	16.42	0.13	0.026	(0.071)	0.005	0.021
198	16.50	0.13	0.026	(0.071)	0.005	0.021

199	16.58	0.10	0.019	(0.071)	0.003	0.016
200	16.67	0.10	0.019	(0.070)	0.003	0.016
201	16.75	0.10	0.019	(0.070)	0.003	0.016
202	16.83	0.10	0.019	(0.070)	0.003	0.016
203	16.92	0.10	0.019	(0.069)	0.003	0.016
204	17.00	0.10	0.019	(0.069)	0.003	0.016
205	17.08	0.17	0.032	(0.069)	0.006	0.026
206	17.17	0.17	0.032	(0.068)	0.006	0.026
207	17.25	0.17	0.032	(0.068)	0.006	0.026
208	17.33	0.17	0.032	(0.068)	0.006	0.026
209	17.42	0.17	0.032	(0.067)	0.006	0.026
210	17.50	0.17	0.032	(0.067)	0.006	0.026
211	17.58	0.17	0.032	(0.067)	0.006	0.026
212	17.67	0.17	0.032	(0.066)	0.006	0.026
213	17.75	0.17	0.032	(0.066)	0.006	0.026
214	17.83	0.13	0.026	(0.066)	0.005	0.021
215	17.92	0.13	0.026	(0.065)	0.005	0.021
216	18.00	0.13	0.026	(0.065)	0.005	0.021
217	18.08	0.13	0.026	(0.065)	0.005	0.021
218	18.17	0.13	0.026	(0.064)	0.005	0.021
219	18.25	0.13	0.026	(0.064)	0.005	0.021
220	18.33	0.13	0.026	(0.064)	0.005	0.021
221	18.42	0.13	0.026	(0.063)	0.005	0.021
222	18.50	0.13	0.026	(0.063)	0.005	0.021
223	18.58	0.10	0.019	(0.063)	0.003	0.016
224	18.67	0.10	0.019	(0.062)	0.003	0.016
225	18.75	0.10	0.019	(0.062)	0.003	0.016
226	18.83	0.07	0.013	(0.062)	0.002	0.010
227	18.92	0.07	0.013	(0.062)	0.002	0.010
228	19.00	0.07	0.013	(0.061)	0.002	0.010
229	19.08	0.10	0.019	(0.061)	0.003	0.016
230	19.17	0.10	0.019	(0.061)	0.003	0.016
231	19.25	0.10	0.019	(0.060)	0.003	0.016
232	19.33	0.13	0.026	(0.060)	0.005	0.021
233	19.42	0.13	0.026	(0.060)	0.005	0.021
234	19.50	0.13	0.026	(0.060)	0.005	0.021
235	19.58	0.10	0.019	(0.059)	0.003	0.016
236	19.67	0.10	0.019	(0.059)	0.003	0.016
237	19.75	0.10	0.019	(0.059)	0.003	0.016
238	19.83	0.07	0.013	(0.058)	0.002	0.010
239	19.92	0.07	0.013	(0.058)	0.002	0.010
240	20.00	0.07	0.013	(0.058)	0.002	0.010
241	20.08	0.10	0.019	(0.058)	0.003	0.016
242	20.17	0.10	0.019	(0.057)	0.003	0.016
243	20.25	0.10	0.019	(0.057)	0.003	0.016
244	20.33	0.10	0.019	(0.057)	0.003	0.016
245	20.42	0.10	0.019	(0.057)	0.003	0.016
246	20.50	0.10	0.019	(0.056)	0.003	0.016
247	20.58	0.10	0.019	(0.056)	0.003	0.016
248	20.67	0.10	0.019	(0.056)	0.003	0.016
249	20.75	0.10	0.019	(0.056)	0.003	0.016
250	20.83	0.07	0.013	(0.056)	0.002	0.010
251	20.92	0.07	0.013	(0.055)	0.002	0.010
252	21.00	0.07	0.013	(0.055)	0.002	0.010
253	21.08	0.10	0.019	(0.055)	0.003	0.016
254	21.17	0.10	0.019	(0.055)	0.003	0.016
255	21.25	0.10	0.019	(0.054)	0.003	0.016
256	21.33	0.07	0.013	(0.054)	0.002	0.010
257	21.42	0.07	0.013	(0.054)	0.002	0.010
258	21.50	0.07	0.013	(0.054)	0.002	0.010

259	21.58	0.10	0.019	(0.054)	0.003	0.016
260	21.67	0.10	0.019	(0.053)	0.003	0.016
261	21.75	0.10	0.019	(0.053)	0.003	0.016
262	21.83	0.07	0.013	(0.053)	0.002	0.010
263	21.92	0.07	0.013	(0.053)	0.002	0.010
264	22.00	0.07	0.013	(0.053)	0.002	0.010
265	22.08	0.10	0.019	(0.053)	0.003	0.016
266	22.17	0.10	0.019	(0.052)	0.003	0.016
267	22.25	0.10	0.019	(0.052)	0.003	0.016
268	22.33	0.07	0.013	(0.052)	0.002	0.010
269	22.42	0.07	0.013	(0.052)	0.002	0.010
270	22.50	0.07	0.013	(0.052)	0.002	0.010
271	22.58	0.07	0.013	(0.052)	0.002	0.010
272	22.67	0.07	0.013	(0.051)	0.002	0.010
273	22.75	0.07	0.013	(0.051)	0.002	0.010
274	22.83	0.07	0.013	(0.051)	0.002	0.010
275	22.92	0.07	0.013	(0.051)	0.002	0.010
276	23.00	0.07	0.013	(0.051)	0.002	0.010
277	23.08	0.07	0.013	(0.051)	0.002	0.010
278	23.17	0.07	0.013	(0.051)	0.002	0.010
279	23.25	0.07	0.013	(0.051)	0.002	0.010
280	23.33	0.07	0.013	(0.050)	0.002	0.010
281	23.42	0.07	0.013	(0.050)	0.002	0.010
282	23.50	0.07	0.013	(0.050)	0.002	0.010
283	23.58	0.07	0.013	(0.050)	0.002	0.010
284	23.67	0.07	0.013	(0.050)	0.002	0.010
285	23.75	0.07	0.013	(0.050)	0.002	0.010
286	23.83	0.07	0.013	(0.050)	0.002	0.010
287	23.92	0.07	0.013	(0.050)	0.002	0.010
288	24.00	0.07	0.013	(0.050)	0.002	0.010

(Loss Rate Not Used)

Sum = 100.0 Sum = 15.7

Flood volume = Effective rainfall 1.31(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.6(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 0.138(Ac.Ft)
Total rainfall = 1.60(In)
Flood volume = 27479.7 Cubic Feet
Total soil loss = 6032.1 Cubic Feet

Peak flow rate of this hydrograph = 1.038(CFS)

++

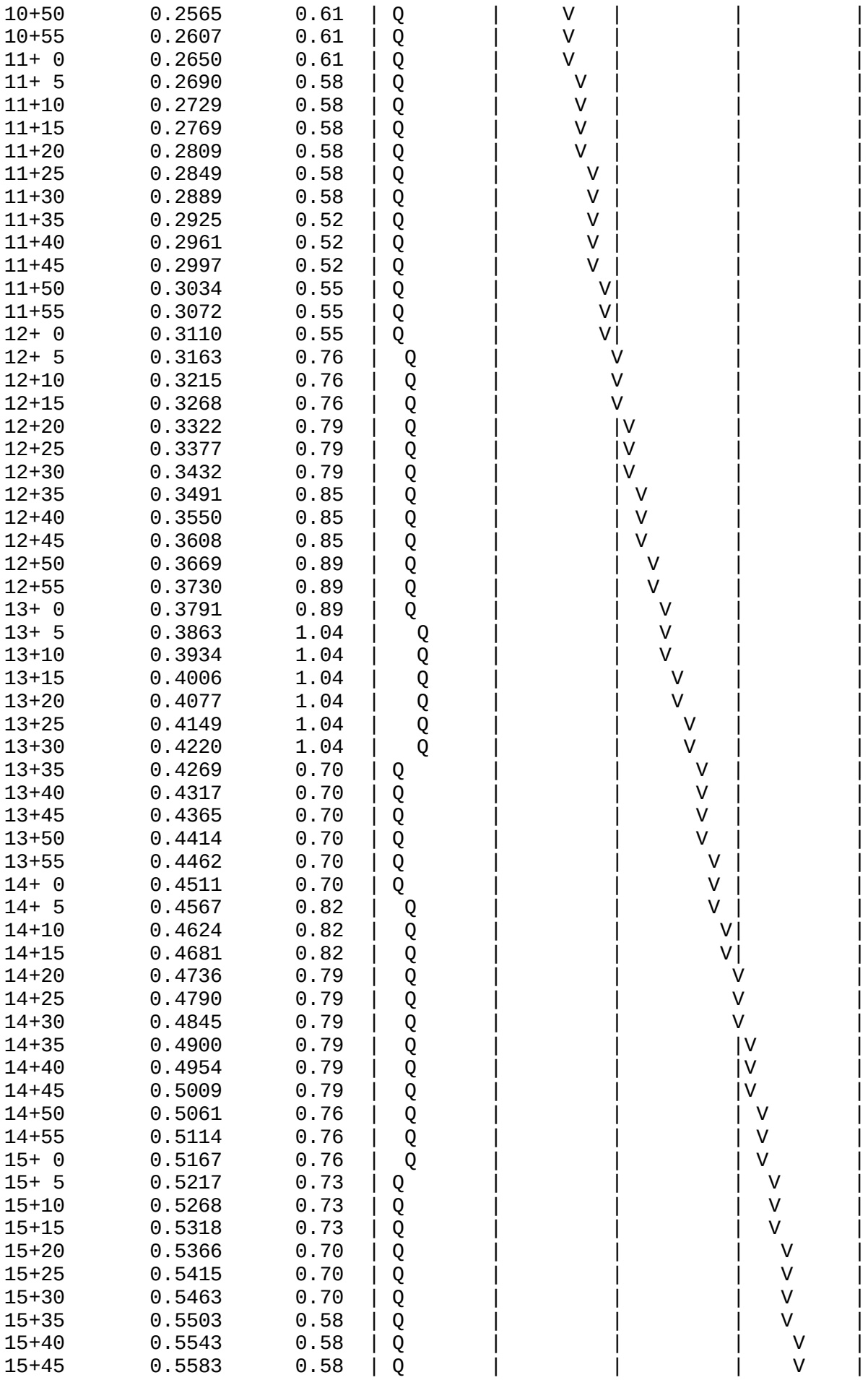
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0004	0.06	Q	|	|	|	|
0+10	0.0008	0.06	Q	|	|	|	|
0+15	0.0013	0.06	Q	|	|	|	|
0+20	0.0019	0.09	Q	|	|	|	|
0+25	0.0025	0.09	Q	|	|	|	|
0+30	0.0032	0.09	Q	|	|	|	|
0+35	0.0038	0.09	Q	|	|	|	|
0+40	0.0044	0.09	Q	|	|	|	|
0+45	0.0050	0.09	Q	|	|	|	|

0+50	0.0059	0.12	Q	|	|	|	|
0+55	0.0067	0.12	Q	|	|	|	|
1+ 0	0.0076	0.12	Q	|	|	|	|
1+ 5	0.0082	0.09	Q	|	|	|	|
1+10	0.0088	0.09	Q	|	|	|	|
1+15	0.0095	0.09	Q	|	|	|	|
1+20	0.0101	0.09	Q	|	|	|	|
1+25	0.0107	0.09	Q	|	|	|	|
1+30	0.0114	0.09	Q	|	|	|	|
1+35	0.0120	0.09	Q	|	|	|	|
1+40	0.0126	0.09	Q	|	|	|	|
1+45	0.0132	0.09	Q	|	|	|	|
1+50	0.0141	0.12	Q	|	|	|	|
1+55	0.0149	0.12	Q	|	|	|	|
2+ 0	0.0158	0.12	Q	|	|	|	|
2+ 5	0.0166	0.12	QV	|	|	|	|
2+10	0.0175	0.12	QV	|	|	|	|
2+15	0.0183	0.12	QV	|	|	|	|
2+20	0.0191	0.12	QV	|	|	|	|
2+25	0.0200	0.12	QV	|	|	|	|
2+30	0.0208	0.12	QV	|	|	|	|
2+35	0.0219	0.15	QV	|	|	|	|
2+40	0.0229	0.15	QV	|	|	|	|
2+45	0.0240	0.15	QV	|	|	|	|
2+50	0.0250	0.15	QV	|	|	|	|
2+55	0.0261	0.15	QV	|	|	|	|
3+ 0	0.0271	0.15	QV	|	|	|	|
3+ 5	0.0282	0.15	QV	|	|	|	|
3+10	0.0292	0.15	QV	|	|	|	|
3+15	0.0303	0.15	QV	|	|	|	|
3+20	0.0313	0.15	QV	|	|	|	|
3+25	0.0324	0.15	Q V	|	|	|	|
3+30	0.0334	0.15	Q V	|	|	|	|
3+35	0.0345	0.15	Q V	|	|	|	|
3+40	0.0355	0.15	Q V	|	|	|	|
3+45	0.0366	0.15	Q V	|	|	|	|
3+50	0.0379	0.18	Q V	|	|	|	|
3+55	0.0391	0.18	Q V	|	|	|	|
4+ 0	0.0404	0.18	Q V	|	|	|	|
4+ 5	0.0416	0.18	Q V	|	|	|	|
4+10	0.0429	0.18	Q V	|	|	|	|
4+15	0.0442	0.18	Q V	|	|	|	|
4+20	0.0456	0.21	Q V	|	|	|	|
4+25	0.0471	0.21	Q V	|	|	|	|
4+30	0.0486	0.21	Q V	|	|	|	|
4+35	0.0500	0.21	Q V	|	|	|	|
4+40	0.0515	0.21	Q V	|	|	|	|
4+45	0.0530	0.21	Q V	|	|	|	|
4+50	0.0547	0.24	Q V	|	|	|	|
4+55	0.0564	0.24	Q V	|	|	|	|
5+ 0	0.0580	0.24	Q V	|	|	|	|
5+ 5	0.0593	0.18	Q V	|	|	|	|
5+10	0.0606	0.18	Q V	|	|	|	|
5+15	0.0618	0.18	Q V	|	|	|	|
5+20	0.0633	0.21	Q V	|	|	|	|
5+25	0.0648	0.21	Q V	|	|	|	|
5+30	0.0662	0.21	Q V	|	|	|	|
5+35	0.0679	0.24	Q V	|	|	|	|
5+40	0.0696	0.24	Q V	|	|	|	|
5+45	0.0713	0.24	Q V	|	|	|	|

```
 5+50       0.0730      0.24  Q   V     |         |         |         |
 5+55       0.0747      0.24  Q   V     |         |         |         |
 6+ 0       0.0763      0.24  Q   V     |         |         |         |
 6+ 5       0.0782      0.27  |Q  V     |         |         |         |
 6+10       0.0801      0.27  |Q   V    |         |         |         |
 6+15       0.0820      0.27  |Q   V    |         |         |         |
 6+20       0.0839      0.27  |Q   V    |         |         |         |
 6+25       0.0858      0.27  |Q   V    |         |         |         |
 6+30       0.0877      0.27  |Q   V    |         |         |         |
 6+35       0.0898      0.31  |Q   V    |         |         |         |
 6+40       0.0919      0.31  |Q   V    |         |         |         |
 6+45       0.0940      0.31  |Q   V    |         |         |         |
 6+50       0.0961      0.31  |Q    V   |         |         |         |
 6+55       0.0982      0.31  |Q    V   |         |         |         |
 7+ 0       0.1003      0.31  |Q    V   |         |         |         |
 7+ 5       0.1024      0.31  |Q    V   |         |         |         |
 7+10       0.1045      0.31  |Q    V   |         |         |         |
 7+15       0.1066      0.31  |Q    V   |         |         |         |
 7+20       0.1089      0.34  |Q    V   |         |         |         |
 7+25       0.1112      0.34  |Q     V  |         |         |         |
 7+30       0.1136      0.34  |Q     V  |         |         |         |
 7+35       0.1161      0.37  |Q     V  |         |         |         |
 7+40       0.1186      0.37  |Q     V  |         |         |         |
 7+45       0.1211      0.37  |Q     V  |         |         |         |
 7+50       0.1239      0.40  |Q     V  |         |         |         |
 7+55       0.1266      0.40  |Q      V |         |         |         |
 8+ 0       0.1293      0.40  |Q      V |         |         |         |
 8+ 5       0.1325      0.46  |Q      V |         |         |         |
 8+10       0.1356      0.46  |Q      V |         |         |         |
 8+15       0.1388      0.46  |Q      V |         |         |         |
 8+20       0.1419      0.46  |Q      V |         |         |         |
 8+25       0.1451      0.46  |Q       V|         |         |         |
 8+30       0.1482      0.46  |Q       V|         |         |         |
 8+35       0.1516      0.49  |Q       V|         |         |         |
 8+40       0.1550      0.49  |Q       V|         |         |         |
 8+45       0.1583      0.49  |Q        V         |         |         |
 8+50       0.1619      0.52  | Q       V         |         |         |
 8+55       0.1655      0.52  | Q       V         |         |         |
 9+ 0       0.1691      0.52  | Q       V         |         |         |
 9+ 5       0.1731      0.58  | Q       V         |         |         |
 9+10       0.1771      0.58  | Q       |V        |         |         |
 9+15       0.1811      0.58  | Q       |V        |         |         |
 9+20       0.1853      0.61  | Q       |V        |         |         |
 9+25       0.1895      0.61  | Q       | V       |         |         |
 9+30       0.1937      0.61  | Q       | V       |         |         |
 9+35       0.1981      0.64  | Q       | V       |         |         |
 9+40       0.2025      0.64  | Q       | V       |         |         |
 9+45       0.2069      0.64  | Q       |  V      |         |         |
 9+50       0.2115      0.67  | Q       |  V      |         |         |
 9+55       0.2162      0.67  | Q       |  V      |         |         |
10+ 0       0.2208      0.67  | Q       |  V      |         |         |
10+ 5       0.2240      0.46  |Q        |   V     |         |         |
10+10       0.2271      0.46  |Q        |   V     |         |         |
10+15       0.2303      0.46  |Q        |   V     |         |         |
10+20       0.2334      0.46  |Q        |   V     |         |         |
10+25       0.2366      0.46  |Q        |   V     |         |         |
10+30       0.2397      0.46  |Q        |    V    |         |         |
10+35       0.2439      0.61  | Q       |    V    |         |         |
10+40       0.2481      0.61  | Q       |    V    |         |         |
10+45       0.2523      0.61  | Q       |    V    |         |         |
```


10+50 0.2565 0.61 | Q | V | | |
10+55 0.2607 0.61 | Q | V | | |
11+ 0 0.2650 0.61 | Q | V | | |
11+ 5 0.2690 0.58 | Q | V | | |
11+10 0.2729 0.58 | Q | V | | |
11+15 0.2769 0.58 | Q | V | | |
11+20 0.2809 0.58 | Q | V | | |
11+25 0.2849 0.58 | Q | V | | |
11+30 0.2889 0.58 | Q | V | | |
11+35 0.2925 0.52 | Q | V | | |
11+40 0.2961 0.52 | Q | V | | |
11+45 0.2997 0.52 | Q | V | | |
11+50 0.3034 0.55 | Q | V| | |
11+55 0.3072 0.55 | Q | V| | |
12+ 0 0.3110 0.55 | Q | V| | |
12+ 5 0.3163 0.76 | Q | V | |
12+10 0.3215 0.76 | Q | V | |
12+15 0.3268 0.76 | Q | V | |
12+20 0.3322 0.79 | Q | |V | |
12+25 0.3377 0.79 | Q | |V | |
12+30 0.3432 0.79 | Q | |V | |
12+35 0.3491 0.85 | Q | | V | |
12+40 0.3550 0.85 | Q | | V | |
12+45 0.3608 0.85 | Q | | V | |
12+50 0.3669 0.89 | Q | | V | |
12+55 0.3730 0.89 | Q | | V | |
13+ 0 0.3791 0.89 | Q | | V | |
13+ 5 0.3863 1.04 | Q | | V | |
13+10 0.3934 1.04 | Q | | V | |
13+15 0.4006 1.04 | Q | | V | |
13+20 0.4077 1.04 | Q | | V | |
13+25 0.4149 1.04 | Q | | V | |
13+30 0.4220 1.04 | Q | | V | |
13+35 0.4269 0.70 | Q | | V | |
13+40 0.4317 0.70 | Q | | V | |
13+45 0.4365 0.70 | Q | | V | |
13+50 0.4414 0.70 | Q | | V | |
13+55 0.4462 0.70 | Q | | V | |
14+ 0 0.4511 0.70 | Q | | V | |
14+ 5 0.4567 0.82 | Q | | V | |
14+10 0.4624 0.82 | Q | | V| |
14+15 0.4681 0.82 | Q | | V| |
14+20 0.4736 0.79 | Q | | V |
14+25 0.4790 0.79 | Q | | V |
14+30 0.4845 0.79 | Q | | V |
14+35 0.4900 0.79 | Q | | |V |
14+40 0.4954 0.79 | Q | | |V |
14+45 0.5009 0.79 | Q | | |V |
14+50 0.5061 0.76 | Q | | | V |
14+55 0.5114 0.76 | Q | | | V |
15+ 0 0.5167 0.76 | Q | | | V |
15+ 5 0.5217 0.73 | Q | | | V |
15+10 0.5268 0.73 | Q | | | V |
15+15 0.5318 0.73 | Q | | | V |
15+20 0.5366 0.70 | Q | | | V |
15+25 0.5415 0.70 | Q | | | V |
15+30 0.5463 0.70 | Q | | | V |
15+35 0.5503 0.58 | Q | | | V |
15+40 0.5543 0.58 | Q | | | V |
15+45 0.5583 0.58 | Q | | | V |

15+50	0.5623	0.58	| Q	|	|	|	V |
15+55	0.5663	0.58	| Q	|	|	|	V |
16+ 0	0.5703	0.58	| Q	|	|	|	V |
16+ 5	0.5711	0.12	Q	|	|	|	V |
16+10	0.5720	0.12	Q	|	|	|	V |
16+15	0.5728	0.12	Q	|	|	|	V |
16+20	0.5736	0.12	Q	|	|	|	V |
16+25	0.5745	0.12	Q	|	|	|	V |
16+30	0.5753	0.12	Q	|	|	|	V |
16+35	0.5760	0.09	Q	|	|	|	V |
16+40	0.5766	0.09	Q	|	|	|	V |
16+45	0.5772	0.09	Q	|	|	|	V |
16+50	0.5779	0.09	Q	|	|	|	V |
16+55	0.5785	0.09	Q	|	|	|	V |
17+ 0	0.5791	0.09	Q	|	|	|	V |
17+ 5	0.5802	0.15	Q	|	|	|	V |
17+10	0.5812	0.15	Q	|	|	|	V |
17+15	0.5823	0.15	Q	|	|	|	V |
17+20	0.5833	0.15	Q	|	|	|	V |
17+25	0.5844	0.15	Q	|	|	|	V |
17+30	0.5854	0.15	Q	|	|	|	V |
17+35	0.5865	0.15	Q	|	|	|	V |
17+40	0.5875	0.15	Q	|	|	|	V |
17+45	0.5886	0.15	Q	|	|	|	V |
17+50	0.5894	0.12	Q	|	|	|	V |
17+55	0.5903	0.12	Q	|	|	|	V |
18+ 0	0.5911	0.12	Q	|	|	|	V |
18+ 5	0.5919	0.12	Q	|	|	|	V |
18+10	0.5928	0.12	Q	|	|	|	V |
18+15	0.5936	0.12	Q	|	|	|	V |
18+20	0.5945	0.12	Q	|	|	|	V |
18+25	0.5953	0.12	Q	|	|	|	V |
18+30	0.5961	0.12	Q	|	|	|	V |
18+35	0.5968	0.09	Q	|	|	|	V |
18+40	0.5974	0.09	Q	|	|	|	V |
18+45	0.5980	0.09	Q	|	|	|	V |
18+50	0.5985	0.06	Q	|	|	|	V |
18+55	0.5989	0.06	Q	|	|	|	V |
19+ 0	0.5993	0.06	Q	|	|	|	V |
19+ 5	0.5999	0.09	Q	|	|	|	V |
19+10	0.6006	0.09	Q	|	|	|	V |
19+15	0.6012	0.09	Q	|	|	|	V |
19+20	0.6020	0.12	Q	|	|	|	V |
19+25	0.6029	0.12	Q	|	|	|	V |
19+30	0.6037	0.12	Q	|	|	|	V |
19+35	0.6044	0.09	Q	|	|	|	V |
19+40	0.6050	0.09	Q	|	|	|	V |
19+45	0.6056	0.09	Q	|	|	|	V |
19+50	0.6060	0.06	Q	|	|	|	V |
19+55	0.6065	0.06	Q	|	|	|	V |
20+ 0	0.6069	0.06	Q	|	|	|	V |
20+ 5	0.6075	0.09	Q	|	|	|	V |
20+10	0.6081	0.09	Q	|	|	|	V |
20+15	0.6088	0.09	Q	|	|	|	V |
20+20	0.6094	0.09	Q	|	|	|	V |
20+25	0.6100	0.09	Q	|	|	|	V |
20+30	0.6107	0.09	Q	|	|	|	V |
20+35	0.6113	0.09	Q	|	|	|	V |
20+40	0.6119	0.09	Q	|	|	|	V |
20+45	0.6126	0.09	Q	|	|	|	V |

20+50	0.6130	0.06	Q	|	|	|	V |
20+55	0.6134	0.06	Q	|	|	|	V |
21+ 0	0.6138	0.06	Q	|	|	|	V |
21+ 5	0.6144	0.09	Q	|	|	|	V |
21+10	0.6151	0.09	Q	|	|	|	V |
21+15	0.6157	0.09	Q	|	|	|	V|
21+20	0.6161	0.06	Q	|	|	|	V|
21+25	0.6165	0.06	Q	|	|	|	V|
21+30	0.6170	0.06	Q	|	|	|	V|
21+35	0.6176	0.09	Q	|	|	|	V|
21+40	0.6182	0.09	Q	|	|	|	V|
21+45	0.6189	0.09	Q	|	|	|	V|
21+50	0.6193	0.06	Q	|	|	|	V|
21+55	0.6197	0.06	Q	|	|	|	V|
22+ 0	0.6201	0.06	Q	|	|	|	V|
22+ 5	0.6208	0.09	Q	|	|	|	V|
22+10	0.6214	0.09	Q	|	|	|	V|
22+15	0.6220	0.09	Q	|	|	|	V|
22+20	0.6224	0.06	Q	|	|	|	V|
22+25	0.6229	0.06	Q	|	|	|	V|
22+30	0.6233	0.06	Q	|	|	|	V|
22+35	0.6237	0.06	Q	|	|	|	V|
22+40	0.6241	0.06	Q	|	|	|	V|
22+45	0.6245	0.06	Q	|	|	|	V|
22+50	0.6250	0.06	Q	|	|	|	V|
22+55	0.6254	0.06	Q	|	|	|	V|
23+ 0	0.6258	0.06	Q	|	|	|	V|
23+ 5	0.6262	0.06	Q	|	|	|	V|
23+10	0.6266	0.06	Q	|	|	|	V|
23+15	0.6271	0.06	Q	|	|	|	V|
23+20	0.6275	0.06	Q	|	|	|	V|
23+25	0.6279	0.06	Q	|	|	|	V|
23+30	0.6283	0.06	Q	|	|	|	V|
23+35	0.6287	0.06	Q	|	|	|	V|
23+40	0.6292	0.06	Q	|	|	|	V|
23+45	0.6296	0.06	Q	|	|	|	V|
23+50	0.6300	0.06	Q	|	|	|	V|
23+55	0.6304	0.06	Q	|	|	|	V|
24+ 0	0.6308	0.06	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV15.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
5-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.50	2.88

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.20	6.92

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
		Sum = 100.000	Sum= 5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	3.40	0.271	(0.100)	0.049	0.222
2	0.17	4.70	0.374	(0.100)	0.067	0.307
3	0.25	4.70	0.374	(0.100)	0.067	0.307
4	0.33	5.10	0.406	(0.100)	0.073	0.333
5	0.42	5.80	0.462	(0.100)	0.083	0.379
6	0.50	5.90	0.470	(0.100)	0.085	0.385
7	0.58	7.10	0.566	0.100	(0.102)	0.466
8	0.67	8.70	0.693	0.100	(0.125)	0.593
9	0.75	13.20	1.052	0.100	(0.189)	0.952
10	0.83	29.70	2.366	0.100	(0.426)	2.266
11	0.92	7.70	0.613	0.100	(0.110)	0.514
12	1.00	4.00	0.319	(0.100)	0.057	0.261
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	7.0

Flood volume = Effective rainfall 0.58(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)

```
    Total soil loss =      0.08(In)
    Total soil loss =     0.039(Ac.Ft)
    Total rainfall =      0.66(In)
    Flood volume =       12194.2 Cubic Feet
    Total soil loss =        1711.7 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =     13.186(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        1 - H O U R    S T O R M
                   R u n o f f      H y d r o g r a p h
    ---------------------------------------------------------------------
                Hydrograph in   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        5.0      10.0      15.0      20.0
  ------------------------------------------------------------------------
    0+ 5       0.0089      1.29  |VQ       |          |          |          |
    0+10       0.0212      1.79  |  Q      |          |          |          |
    0+15       0.0335      1.79  |  QV     |          |          |          |
    0+20       0.0469      1.94  |  Q  V   |          |          |          |
    0+25       0.0620      2.20  |   Q   V |          |          |          |
    0+30       0.0775      2.24  |   Q     |V         |          |          |
    0+35       0.0962      2.71  |    Q    |  V       |          |          |
    0+40       0.1199      3.45  |     Q   |      V   |          |          |
    0+45       0.1581      5.54  |         |Q         | V        |          |
    0+50       0.2489     13.19  |         |          |     Q    |    V     |
    0+55       0.2695      2.99  |    Q    |          |          |       V  |
    1+ 0       0.2799      1.52  |  Q      |          |          |          V
--------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV35.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
5-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.80	4.62

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.80	10.39

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 1.034(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.034(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.161	(0.100)	0.029	0.132
2	0.17	1.30	0.161	(0.100)	0.029	0.132
3	0.25	1.10	0.137	(0.100)	0.025	0.112
4	0.33	1.50	0.186	(0.100)	0.034	0.153
5	0.42	1.50	0.186	(0.100)	0.034	0.153
6	0.50	1.80	0.223	(0.100)	0.040	0.183
7	0.58	1.50	0.186	(0.100)	0.034	0.153
8	0.67	1.80	0.223	(0.100)	0.040	0.183
9	0.75	1.80	0.223	(0.100)	0.040	0.183
10	0.83	1.50	0.186	(0.100)	0.034	0.153
11	0.92	1.60	0.199	(0.100)	0.036	0.163
12	1.00	1.80	0.223	(0.100)	0.040	0.183
13	1.08	2.20	0.273	(0.100)	0.049	0.224
14	1.17	2.20	0.273	(0.100)	0.049	0.224
15	1.25	2.20	0.273	(0.100)	0.049	0.224
16	1.33	2.00	0.248	(0.100)	0.045	0.204
17	1.42	2.60	0.323	(0.100)	0.058	0.265
18	1.50	2.70	0.335	(0.100)	0.060	0.275

19	1.58	2.40	0.298	(0.100)	0.054		0.244
20	1.67	2.70	0.335	(0.100)	0.060		0.275
21	1.75	3.30	0.410	(0.100)	0.074		0.336
22	1.83	3.10	0.385	(0.100)	0.069		0.315
23	1.92	2.90	0.360	(0.100)	0.065		0.295
24	2.00	3.00	0.372	(0.100)	0.067		0.305
25	2.08	3.10	0.385	(0.100)	0.069		0.315
26	2.17	4.20	0.521	(0.100)	0.094		0.427
27	2.25	5.00	0.621	0.100	(0.112)		0.521
28	2.33	3.50	0.434	(0.100)	0.078		0.356
29	2.42	6.80	0.844	0.100	(0.152)		0.744
30	2.50	7.30	0.906	0.100	(0.163)		0.806
31	2.58	8.20	1.018	0.100	(0.183)		0.918
32	2.67	5.90	0.732	0.100	(0.132)		0.632
33	2.75	2.00	0.248	(0.100)	0.045		0.204
34	2.83	1.80	0.223	(0.100)	0.040		0.183
35	2.92	1.80	0.223	(0.100)	0.040		0.183
36	3.00	0.60	0.074	(0.100)	0.013		0.061

(Loss Rate Not Used)

Sum = 100.0 Sum = 10.4

Flood volume = Effective rainfall 0.87(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.4(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.080(Ac.Ft)
Total rainfall = 1.03(In)
Flood volume = 18186.2 Cubic Feet
Total soil loss = 3475.2 Cubic Feet

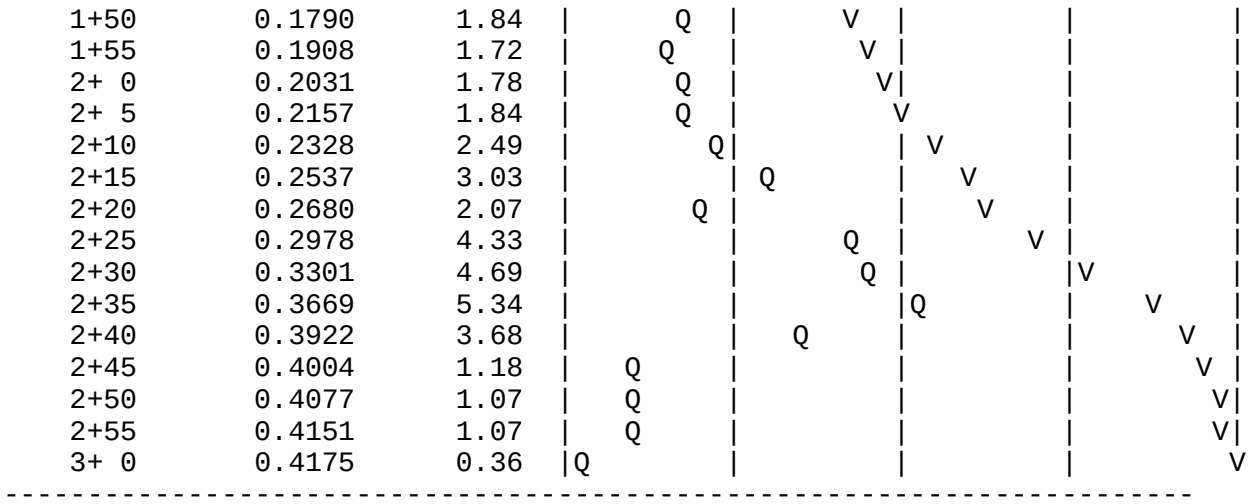
Peak flow rate of this hydrograph = 5.340(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0053	0.77	V Q				
0+10	0.0106	0.77	V Q				
0+15	0.0151	0.65	VQ				
0+20	0.0212	0.89	VQ				
0+25	0.0273	0.89	VQ				
0+30	0.0347	1.07	VQ				
0+35	0.0408	0.89	Q				
0+40	0.0481	1.07	Q				
0+45	0.0555	1.07	QV				
0+50	0.0616	0.89	Q V				
0+55	0.0681	0.95	Q V				
1+ 0	0.0754	1.07	Q V				
1+ 5	0.0844	1.30	Q V				
1+10	0.0934	1.30	Q V				
1+15	0.1023	1.30	Q V				
1+20	0.1105	1.18	Q V				
1+25	0.1211	1.54	Q V				
1+30	0.1321	1.60	Q V				
1+35	0.1419	1.42	Q V				
1+40	0.1529	1.60	Q V				
1+45	0.1664	1.95	Q V				


1+50 0.1790 1.84
1+55 0.1908 1.72
2+ 0 0.2031 1.78
2+ 5 0.2157 1.84
2+10 0.2328 2.49
2+15 0.2537 3.03
2+20 0.2680 2.07
2+25 0.2978 4.33
2+30 0.3301 4.69
2+35 0.3669 5.34
2+40 0.3922 3.68
2+45 0.4004 1.18
2+50 0.4077 1.07
2+55 0.4151 1.07
3+ 0 0.4175 0.36

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV65.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
5-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.00	5.77

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	2.50	14.42

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.351(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.351(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.081	(0.100)	0.015	0.066
2	0.17	0.60	0.097	(0.100)	0.018	0.080
3	0.25	0.60	0.097	(0.100)	0.018	0.080
4	0.33	0.60	0.097	(0.100)	0.018	0.080
5	0.42	0.60	0.097	(0.100)	0.018	0.080
6	0.50	0.70	0.114	(0.100)	0.020	0.093
7	0.58	0.70	0.114	(0.100)	0.020	0.093
8	0.67	0.70	0.114	(0.100)	0.020	0.093
9	0.75	0.70	0.114	(0.100)	0.020	0.093
10	0.83	0.70	0.114	(0.100)	0.020	0.093
11	0.92	0.70	0.114	(0.100)	0.020	0.093
12	1.00	0.80	0.130	(0.100)	0.023	0.106
13	1.08	0.80	0.130	(0.100)	0.023	0.106
14	1.17	0.80	0.130	(0.100)	0.023	0.106
15	1.25	0.80	0.130	(0.100)	0.023	0.106
16	1.33	0.80	0.130	(0.100)	0.023	0.106
17	1.42	0.80	0.130	(0.100)	0.023	0.106
18	1.50	0.80	0.130	(0.100)	0.023	0.106

19	1.58	0.80	0.130	(0.100)	0.023	0.106
20	1.67	0.80	0.130	(0.100)	0.023	0.106
21	1.75	0.80	0.130	(0.100)	0.023	0.106
22	1.83	0.80	0.130	(0.100)	0.023	0.106
23	1.92	0.80	0.130	(0.100)	0.023	0.106
24	2.00	0.90	0.146	(0.100)	0.026	0.120
25	2.08	0.80	0.130	(0.100)	0.023	0.106
26	2.17	0.90	0.146	(0.100)	0.026	0.120
27	2.25	0.90	0.146	(0.100)	0.026	0.120
28	2.33	0.90	0.146	(0.100)	0.026	0.120
29	2.42	0.90	0.146	(0.100)	0.026	0.120
30	2.50	0.90	0.146	(0.100)	0.026	0.120
31	2.58	0.90	0.146	(0.100)	0.026	0.120
32	2.67	0.90	0.146	(0.100)	0.026	0.120
33	2.75	1.00	0.162	(0.100)	0.029	0.133
34	2.83	1.00	0.162	(0.100)	0.029	0.133
35	2.92	1.00	0.162	(0.100)	0.029	0.133
36	3.00	1.00	0.162	(0.100)	0.029	0.133
37	3.08	1.00	0.162	(0.100)	0.029	0.133
38	3.17	1.10	0.178	(0.100)	0.032	0.146
39	3.25	1.10	0.178	(0.100)	0.032	0.146
40	3.33	1.10	0.178	(0.100)	0.032	0.146
41	3.42	1.20	0.195	(0.100)	0.035	0.160
42	3.50	1.30	0.211	(0.100)	0.038	0.173
43	3.58	1.40	0.227	(0.100)	0.041	0.186
44	3.67	1.40	0.227	(0.100)	0.041	0.186
45	3.75	1.50	0.243	(0.100)	0.044	0.199
46	3.83	1.50	0.243	(0.100)	0.044	0.199
47	3.92	1.60	0.259	(0.100)	0.047	0.213
48	4.00	1.60	0.259	(0.100)	0.047	0.213
49	4.08	1.70	0.276	(0.100)	0.050	0.226
50	4.17	1.80	0.292	(0.100)	0.053	0.239
51	4.25	1.90	0.308	(0.100)	0.055	0.253
52	4.33	2.00	0.324	(0.100)	0.058	0.266
53	4.42	2.10	0.341	(0.100)	0.061	0.279
54	4.50	2.10	0.341	(0.100)	0.061	0.279
55	4.58	2.20	0.357	(0.100)	0.064	0.293
56	4.67	2.30	0.373	(0.100)	0.067	0.306
57	4.75	2.40	0.389	(0.100)	0.070	0.319
58	4.83	2.40	0.389	(0.100)	0.070	0.319
59	4.92	2.50	0.405	(0.100)	0.073	0.332
60	5.00	2.60	0.422	(0.100)	0.076	0.346
61	5.08	3.10	0.503	(0.100)	0.090	0.412
62	5.17	3.60	0.584	0.100	(0.105)	0.484
63	5.25	3.90	0.632	0.100	(0.114)	0.533
64	5.33	4.20	0.681	0.100	(0.123)	0.581
65	5.42	4.70	0.762	0.100	(0.137)	0.662
66	5.50	5.60	0.908	0.100	(0.163)	0.808
67	5.58	1.90	0.308	(0.100)	0.055	0.253
68	5.67	0.90	0.146	(0.100)	0.026	0.120
69	5.75	0.60	0.097	(0.100)	0.018	0.080
70	5.83	0.50	0.081	(0.100)	0.015	0.066
71	5.92	0.30	0.049	(0.100)	0.009	0.040
72	6.00	0.20	0.032	(0.100)	0.006	0.027

(Loss Rate Not Used)

Sum = 100.0 Sum = 13.4

Flood volume = Effective rainfall 1.12(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.5(Ac.Ft)

Total soil loss = 0.23(In)

Total soil loss = 0.111(Ac.Ft)

Total rainfall = 1.35(In)
Flood volume = 23458.9 Cubic Feet
Total soil loss = 4844.4 Cubic Feet

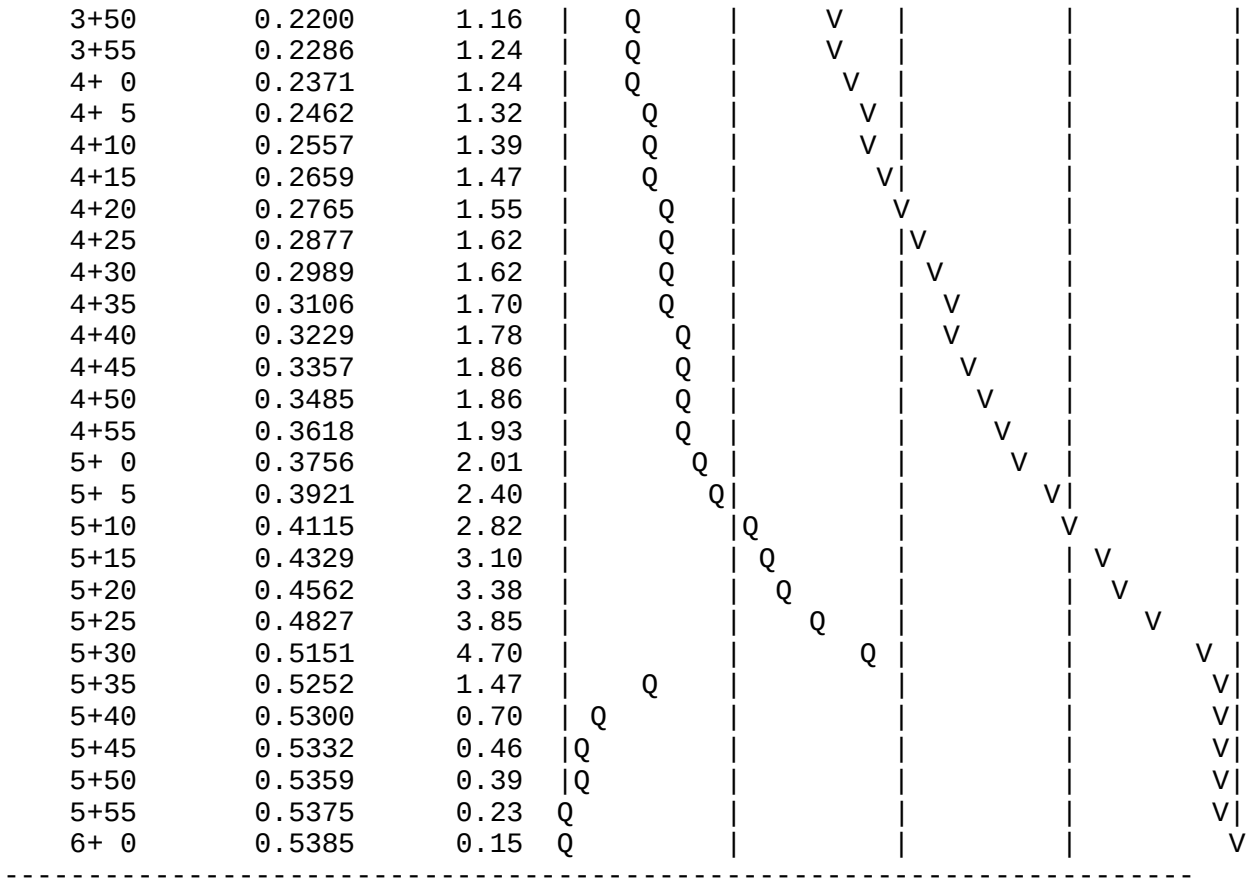
Peak flow rate of this hydrograph = 4.703(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0027	0.39	VQ				
0+10	0.0059	0.46	VQ				
0+15	0.0091	0.46	VQ				
0+20	0.0123	0.46	VQ				
0+25	0.0155	0.46	|Q				
0+30	0.0192	0.54	|VQ				
0+35	0.0229	0.54	|VQ				
0+40	0.0266	0.54	|VQ				
0+45	0.0304	0.54	| Q				
0+50	0.0341	0.54	| Q				
0+55	0.0378	0.54	| Q				
1+ 0	0.0421	0.62	| QV				
1+ 5	0.0464	0.62	| QV				
1+10	0.0506	0.62	| QV				
1+15	0.0549	0.62	| Q V				
1+20	0.0591	0.62	| Q V				
1+25	0.0634	0.62	| Q V				
1+30	0.0677	0.62	| Q V				
1+35	0.0719	0.62	| Q V				
1+40	0.0762	0.62	| Q V				
1+45	0.0805	0.62	| Q V				
1+50	0.0847	0.62	| Q V				
1+55	0.0890	0.62	| Q V				
2+ 0	0.0938	0.70	| Q V				
2+ 5	0.0980	0.62	| Q V				
2+10	0.1028	0.70	| Q V				
2+15	0.1076	0.70	| Q V				
2+20	0.1124	0.70	| Q V				
2+25	0.1172	0.70	| Q V				
2+30	0.1220	0.70	| Q V				
2+35	0.1268	0.70	| Q V				
2+40	0.1316	0.70	| Q V				
2+45	0.1369	0.77	| Q V				
2+50	0.1423	0.77	| Q V				
2+55	0.1476	0.77	| Q V				
3+ 0	0.1529	0.77	| Q V				
3+ 5	0.1582	0.77	| Q V				
3+10	0.1641	0.85	| Q V				
3+15	0.1700	0.85	| Q V				
3+20	0.1758	0.85	| Q V				
3+25	0.1822	0.93	| Q V				
3+30	0.1891	1.01	| Q V				
3+35	0.1966	1.08	| Q V				
3+40	0.2041	1.08	| Q V				
3+45	0.2121	1.16	| Q V				



3+50	0.2200	1.16	Q	V			
3+55	0.2286	1.24	Q	V			
4+ 0	0.2371	1.24	Q	V			
4+ 5	0.2462	1.32	Q	V			
4+10	0.2557	1.39	Q	V			
4+15	0.2659	1.47	Q	V			
4+20	0.2765	1.55	Q	V			
4+25	0.2877	1.62	Q	V			
4+30	0.2989	1.62	Q	V			
4+35	0.3106	1.70	Q	V			
4+40	0.3229	1.78	Q	V			
4+45	0.3357	1.86	Q	V			
4+50	0.3485	1.86	Q	V			
4+55	0.3618	1.93	Q	V			
5+ 0	0.3756	2.01	Q	V			
5+ 5	0.3921	2.40	Q	V			
5+10	0.4115	2.82	Q	V			
5+15	0.4329	3.10	Q	V			
5+20	0.4562	3.38	Q	V			
5+25	0.4827	3.85	Q	V			
5+30	0.5151	4.70	Q	V			
5+35	0.5252	1.47	Q	V			
5+40	0.5300	0.70	Q	V			
5+45	0.5332	0.46	Q	V			
5+50	0.5359	0.39	Q	V			
5+55	0.5375	0.23	Q	V			
6+ 0	0.5385	0.15	Q	V			

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV245.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
5YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.60	9.23

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	4.00	23.08

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 2.162(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.162(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	54.6	0.525	0.900	0.100	1.000	0.100
					Sum (F) =	0.100

Area averaged mean soil loss (F) (In/Hr) = 0.100
Minimum soil loss rate ((In/Hr)) = 0.050
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.017	(0.177)	0.003	0.014
2	0.17	0.07	0.017	(0.176)	0.003	0.014
3	0.25	0.07	0.017	(0.175)	0.003	0.014
4	0.33	0.10	0.026	(0.175)	0.005	0.021
5	0.42	0.10	0.026	(0.174)	0.005	0.021
6	0.50	0.10	0.026	(0.173)	0.005	0.021
7	0.58	0.10	0.026	(0.173)	0.005	0.021
8	0.67	0.10	0.026	(0.172)	0.005	0.021
9	0.75	0.10	0.026	(0.171)	0.005	0.021
10	0.83	0.13	0.035	(0.171)	0.006	0.028
11	0.92	0.13	0.035	(0.170)	0.006	0.028
12	1.00	0.13	0.035	(0.169)	0.006	0.028
13	1.08	0.10	0.026	(0.169)	0.005	0.021
14	1.17	0.10	0.026	(0.168)	0.005	0.021
15	1.25	0.10	0.026	(0.167)	0.005	0.021
16	1.33	0.10	0.026	(0.167)	0.005	0.021
17	1.42	0.10	0.026	(0.166)	0.005	0.021
18	1.50	0.10	0.026	(0.165)	0.005	0.021

19	1.58	0.10	0.026	(0.165)	0.005	0.021
20	1.67	0.10	0.026	(0.164)	0.005	0.021
21	1.75	0.10	0.026	(0.163)	0.005	0.021
22	1.83	0.13	0.035	(0.163)	0.006	0.028
23	1.92	0.13	0.035	(0.162)	0.006	0.028
24	2.00	0.13	0.035	(0.161)	0.006	0.028
25	2.08	0.13	0.035	(0.161)	0.006	0.028
26	2.17	0.13	0.035	(0.160)	0.006	0.028
27	2.25	0.13	0.035	(0.160)	0.006	0.028
28	2.33	0.13	0.035	(0.159)	0.006	0.028
29	2.42	0.13	0.035	(0.158)	0.006	0.028
30	2.50	0.13	0.035	(0.158)	0.006	0.028
31	2.58	0.17	0.043	(0.157)	0.008	0.035
32	2.67	0.17	0.043	(0.156)	0.008	0.035
33	2.75	0.17	0.043	(0.156)	0.008	0.035
34	2.83	0.17	0.043	(0.155)	0.008	0.035
35	2.92	0.17	0.043	(0.154)	0.008	0.035
36	3.00	0.17	0.043	(0.154)	0.008	0.035
37	3.08	0.17	0.043	(0.153)	0.008	0.035
38	3.17	0.17	0.043	(0.152)	0.008	0.035
39	3.25	0.17	0.043	(0.152)	0.008	0.035
40	3.33	0.17	0.043	(0.151)	0.008	0.035
41	3.42	0.17	0.043	(0.151)	0.008	0.035
42	3.50	0.17	0.043	(0.150)	0.008	0.035
43	3.58	0.17	0.043	(0.149)	0.008	0.035
44	3.67	0.17	0.043	(0.149)	0.008	0.035
45	3.75	0.17	0.043	(0.148)	0.008	0.035
46	3.83	0.20	0.052	(0.147)	0.009	0.043
47	3.92	0.20	0.052	(0.147)	0.009	0.043
48	4.00	0.20	0.052	(0.146)	0.009	0.043
49	4.08	0.20	0.052	(0.146)	0.009	0.043
50	4.17	0.20	0.052	(0.145)	0.009	0.043
51	4.25	0.20	0.052	(0.144)	0.009	0.043
52	4.33	0.23	0.061	(0.144)	0.011	0.050
53	4.42	0.23	0.061	(0.143)	0.011	0.050
54	4.50	0.23	0.061	(0.142)	0.011	0.050
55	4.58	0.23	0.061	(0.142)	0.011	0.050
56	4.67	0.23	0.061	(0.141)	0.011	0.050
57	4.75	0.23	0.061	(0.141)	0.011	0.050
58	4.83	0.27	0.069	(0.140)	0.012	0.057
59	4.92	0.27	0.069	(0.139)	0.012	0.057
60	5.00	0.27	0.069	(0.139)	0.012	0.057
61	5.08	0.20	0.052	(0.138)	0.009	0.043
62	5.17	0.20	0.052	(0.138)	0.009	0.043
63	5.25	0.20	0.052	(0.137)	0.009	0.043
64	5.33	0.23	0.061	(0.136)	0.011	0.050
65	5.42	0.23	0.061	(0.136)	0.011	0.050
66	5.50	0.23	0.061	(0.135)	0.011	0.050
67	5.58	0.27	0.069	(0.135)	0.012	0.057
68	5.67	0.27	0.069	(0.134)	0.012	0.057
69	5.75	0.27	0.069	(0.133)	0.012	0.057
70	5.83	0.27	0.069	(0.133)	0.012	0.057
71	5.92	0.27	0.069	(0.132)	0.012	0.057
72	6.00	0.27	0.069	(0.132)	0.012	0.057
73	6.08	0.30	0.078	(0.131)	0.014	0.064
74	6.17	0.30	0.078	(0.131)	0.014	0.064
75	6.25	0.30	0.078	(0.130)	0.014	0.064
76	6.33	0.30	0.078	(0.129)	0.014	0.064
77	6.42	0.30	0.078	(0.129)	0.014	0.064
78	6.50	0.30	0.078	(0.128)	0.014	0.064

79	6.58	0.33	0.086	(0.128)	0.016	0.071
80	6.67	0.33	0.086	(0.127)	0.016	0.071
81	6.75	0.33	0.086	(0.126)	0.016	0.071
82	6.83	0.33	0.086	(0.126)	0.016	0.071
83	6.92	0.33	0.086	(0.125)	0.016	0.071
84	7.00	0.33	0.086	(0.125)	0.016	0.071
85	7.08	0.33	0.086	(0.124)	0.016	0.071
86	7.17	0.33	0.086	(0.124)	0.016	0.071
87	7.25	0.33	0.086	(0.123)	0.016	0.071
88	7.33	0.37	0.095	(0.123)	0.017	0.078
89	7.42	0.37	0.095	(0.122)	0.017	0.078
90	7.50	0.37	0.095	(0.121)	0.017	0.078
91	7.58	0.40	0.104	(0.121)	0.019	0.085
92	7.67	0.40	0.104	(0.120)	0.019	0.085
93	7.75	0.40	0.104	(0.120)	0.019	0.085
94	7.83	0.43	0.112	(0.119)	0.020	0.092
95	7.92	0.43	0.112	(0.119)	0.020	0.092
96	8.00	0.43	0.112	(0.118)	0.020	0.092
97	8.08	0.50	0.130	(0.118)	0.023	0.106
98	8.17	0.50	0.130	(0.117)	0.023	0.106
99	8.25	0.50	0.130	(0.116)	0.023	0.106
100	8.33	0.50	0.130	(0.116)	0.023	0.106
101	8.42	0.50	0.130	(0.115)	0.023	0.106
102	8.50	0.50	0.130	(0.115)	0.023	0.106
103	8.58	0.53	0.138	(0.114)	0.025	0.113
104	8.67	0.53	0.138	(0.114)	0.025	0.113
105	8.75	0.53	0.138	(0.113)	0.025	0.113
106	8.83	0.57	0.147	(0.113)	0.026	0.121
107	8.92	0.57	0.147	(0.112)	0.026	0.121
108	9.00	0.57	0.147	(0.112)	0.026	0.121
109	9.08	0.63	0.164	(0.111)	0.030	0.135
110	9.17	0.63	0.164	(0.111)	0.030	0.135
111	9.25	0.63	0.164	(0.110)	0.030	0.135
112	9.33	0.67	0.173	(0.109)	0.031	0.142
113	9.42	0.67	0.173	(0.109)	0.031	0.142
114	9.50	0.67	0.173	(0.108)	0.031	0.142
115	9.58	0.70	0.182	(0.108)	0.033	0.149
116	9.67	0.70	0.182	(0.107)	0.033	0.149
117	9.75	0.70	0.182	(0.107)	0.033	0.149
118	9.83	0.73	0.190	(0.106)	0.034	0.156
119	9.92	0.73	0.190	(0.106)	0.034	0.156
120	10.00	0.73	0.190	(0.105)	0.034	0.156
121	10.08	0.50	0.130	(0.105)	0.023	0.106
122	10.17	0.50	0.130	(0.104)	0.023	0.106
123	10.25	0.50	0.130	(0.104)	0.023	0.106
124	10.33	0.50	0.130	(0.103)	0.023	0.106
125	10.42	0.50	0.130	(0.103)	0.023	0.106
126	10.50	0.50	0.130	(0.102)	0.023	0.106
127	10.58	0.67	0.173	(0.102)	0.031	0.142
128	10.67	0.67	0.173	(0.101)	0.031	0.142
129	10.75	0.67	0.173	(0.101)	0.031	0.142
130	10.83	0.67	0.173	(0.100)	0.031	0.142
131	10.92	0.67	0.173	(0.100)	0.031	0.142
132	11.00	0.67	0.173	(0.099)	0.031	0.142
133	11.08	0.63	0.164	(0.099)	0.030	0.135
134	11.17	0.63	0.164	(0.098)	0.030	0.135
135	11.25	0.63	0.164	(0.098)	0.030	0.135
136	11.33	0.63	0.164	(0.097)	0.030	0.135
137	11.42	0.63	0.164	(0.097)	0.030	0.135
138	11.50	0.63	0.164	(0.096)	0.030	0.135

139	11.58	0.57	0.147	(0.096)	0.026	0.121
140	11.67	0.57	0.147	(0.095)	0.026	0.121
141	11.75	0.57	0.147	(0.095)	0.026	0.121
142	11.83	0.60	0.156	(0.095)	0.028	0.128
143	11.92	0.60	0.156	(0.094)	0.028	0.128
144	12.00	0.60	0.156	(0.094)	0.028	0.128
145	12.08	0.83	0.216	(0.093)	0.039	0.177
146	12.17	0.83	0.216	(0.093)	0.039	0.177
147	12.25	0.83	0.216	(0.092)	0.039	0.177
148	12.33	0.87	0.225	(0.092)	0.040	0.184
149	12.42	0.87	0.225	(0.091)	0.040	0.184
150	12.50	0.87	0.225	(0.091)	0.040	0.184
151	12.58	0.93	0.242	(0.090)	0.044	0.199
152	12.67	0.93	0.242	(0.090)	0.044	0.199
153	12.75	0.93	0.242	(0.089)	0.044	0.199
154	12.83	0.97	0.251	(0.089)	0.045	0.206
155	12.92	0.97	0.251	(0.089)	0.045	0.206
156	13.00	0.97	0.251	(0.088)	0.045	0.206
157	13.08	1.13	0.294	(0.088)	0.053	0.241
158	13.17	1.13	0.294	(0.087)	0.053	0.241
159	13.25	1.13	0.294	(0.087)	0.053	0.241
160	13.33	1.13	0.294	(0.086)	0.053	0.241
161	13.42	1.13	0.294	(0.086)	0.053	0.241
162	13.50	1.13	0.294	(0.085)	0.053	0.241
163	13.58	0.77	0.199	(0.085)	0.036	0.163
164	13.67	0.77	0.199	(0.085)	0.036	0.163
165	13.75	0.77	0.199	(0.084)	0.036	0.163
166	13.83	0.77	0.199	(0.084)	0.036	0.163
167	13.92	0.77	0.199	(0.083)	0.036	0.163
168	14.00	0.77	0.199	(0.083)	0.036	0.163
169	14.08	0.90	0.234	(0.082)	0.042	0.191
170	14.17	0.90	0.234	(0.082)	0.042	0.191
171	14.25	0.90	0.234	(0.082)	0.042	0.191
172	14.33	0.87	0.225	(0.081)	0.040	0.184
173	14.42	0.87	0.225	(0.081)	0.040	0.184
174	14.50	0.87	0.225	(0.080)	0.040	0.184
175	14.58	0.87	0.225	(0.080)	0.040	0.184
176	14.67	0.87	0.225	(0.080)	0.040	0.184
177	14.75	0.87	0.225	(0.079)	0.040	0.184
178	14.83	0.83	0.216	(0.079)	0.039	0.177
179	14.92	0.83	0.216	(0.078)	0.039	0.177
180	15.00	0.83	0.216	(0.078)	0.039	0.177
181	15.08	0.80	0.208	(0.078)	0.037	0.170
182	15.17	0.80	0.208	(0.077)	0.037	0.170
183	15.25	0.80	0.208	(0.077)	0.037	0.170
184	15.33	0.77	0.199	(0.076)	0.036	0.163
185	15.42	0.77	0.199	(0.076)	0.036	0.163
186	15.50	0.77	0.199	(0.076)	0.036	0.163
187	15.58	0.63	0.164	(0.075)	0.030	0.135
188	15.67	0.63	0.164	(0.075)	0.030	0.135
189	15.75	0.63	0.164	(0.074)	0.030	0.135
190	15.83	0.63	0.164	(0.074)	0.030	0.135
191	15.92	0.63	0.164	(0.074)	0.030	0.135
192	16.00	0.63	0.164	(0.073)	0.030	0.135
193	16.08	0.13	0.035	(0.073)	0.006	0.028
194	16.17	0.13	0.035	(0.073)	0.006	0.028
195	16.25	0.13	0.035	(0.072)	0.006	0.028
196	16.33	0.13	0.035	(0.072)	0.006	0.028
197	16.42	0.13	0.035	(0.071)	0.006	0.028
198	16.50	0.13	0.035	(0.071)	0.006	0.028

199	16.58	0.10	0.026	(0.071)	0.005	0.021
200	16.67	0.10	0.026	(0.070)	0.005	0.021
201	16.75	0.10	0.026	(0.070)	0.005	0.021
202	16.83	0.10	0.026	(0.070)	0.005	0.021
203	16.92	0.10	0.026	(0.069)	0.005	0.021
204	17.00	0.10	0.026	(0.069)	0.005	0.021
205	17.08	0.17	0.043	(0.069)	0.008	0.035
206	17.17	0.17	0.043	(0.068)	0.008	0.035
207	17.25	0.17	0.043	(0.068)	0.008	0.035
208	17.33	0.17	0.043	(0.068)	0.008	0.035
209	17.42	0.17	0.043	(0.067)	0.008	0.035
210	17.50	0.17	0.043	(0.067)	0.008	0.035
211	17.58	0.17	0.043	(0.067)	0.008	0.035
212	17.67	0.17	0.043	(0.066)	0.008	0.035
213	17.75	0.17	0.043	(0.066)	0.008	0.035
214	17.83	0.13	0.035	(0.066)	0.006	0.028
215	17.92	0.13	0.035	(0.065)	0.006	0.028
216	18.00	0.13	0.035	(0.065)	0.006	0.028
217	18.08	0.13	0.035	(0.065)	0.006	0.028
218	18.17	0.13	0.035	(0.064)	0.006	0.028
219	18.25	0.13	0.035	(0.064)	0.006	0.028
220	18.33	0.13	0.035	(0.064)	0.006	0.028
221	18.42	0.13	0.035	(0.063)	0.006	0.028
222	18.50	0.13	0.035	(0.063)	0.006	0.028
223	18.58	0.10	0.026	(0.063)	0.005	0.021
224	18.67	0.10	0.026	(0.062)	0.005	0.021
225	18.75	0.10	0.026	(0.062)	0.005	0.021
226	18.83	0.07	0.017	(0.062)	0.003	0.014
227	18.92	0.07	0.017	(0.062)	0.003	0.014
228	19.00	0.07	0.017	(0.061)	0.003	0.014
229	19.08	0.10	0.026	(0.061)	0.005	0.021
230	19.17	0.10	0.026	(0.061)	0.005	0.021
231	19.25	0.10	0.026	(0.060)	0.005	0.021
232	19.33	0.13	0.035	(0.060)	0.006	0.028
233	19.42	0.13	0.035	(0.060)	0.006	0.028
234	19.50	0.13	0.035	(0.060)	0.006	0.028
235	19.58	0.10	0.026	(0.059)	0.005	0.021
236	19.67	0.10	0.026	(0.059)	0.005	0.021
237	19.75	0.10	0.026	(0.059)	0.005	0.021
238	19.83	0.07	0.017	(0.058)	0.003	0.014
239	19.92	0.07	0.017	(0.058)	0.003	0.014
240	20.00	0.07	0.017	(0.058)	0.003	0.014
241	20.08	0.10	0.026	(0.058)	0.005	0.021
242	20.17	0.10	0.026	(0.057)	0.005	0.021
243	20.25	0.10	0.026	(0.057)	0.005	0.021
244	20.33	0.10	0.026	(0.057)	0.005	0.021
245	20.42	0.10	0.026	(0.057)	0.005	0.021
246	20.50	0.10	0.026	(0.056)	0.005	0.021
247	20.58	0.10	0.026	(0.056)	0.005	0.021
248	20.67	0.10	0.026	(0.056)	0.005	0.021
249	20.75	0.10	0.026	(0.056)	0.005	0.021
250	20.83	0.07	0.017	(0.056)	0.003	0.014
251	20.92	0.07	0.017	(0.055)	0.003	0.014
252	21.00	0.07	0.017	(0.055)	0.003	0.014
253	21.08	0.10	0.026	(0.055)	0.005	0.021
254	21.17	0.10	0.026	(0.055)	0.005	0.021
255	21.25	0.10	0.026	(0.054)	0.005	0.021
256	21.33	0.07	0.017	(0.054)	0.003	0.014
257	21.42	0.07	0.017	(0.054)	0.003	0.014
258	21.50	0.07	0.017	(0.054)	0.003	0.014

259	21.58	0.10	0.026	(0.054)	0.005	0.021
260	21.67	0.10	0.026	(0.053)	0.005	0.021
261	21.75	0.10	0.026	(0.053)	0.005	0.021
262	21.83	0.07	0.017	(0.053)	0.003	0.014
263	21.92	0.07	0.017	(0.053)	0.003	0.014
264	22.00	0.07	0.017	(0.053)	0.003	0.014
265	22.08	0.10	0.026	(0.053)	0.005	0.021
266	22.17	0.10	0.026	(0.052)	0.005	0.021
267	22.25	0.10	0.026	(0.052)	0.005	0.021
268	22.33	0.07	0.017	(0.052)	0.003	0.014
269	22.42	0.07	0.017	(0.052)	0.003	0.014
270	22.50	0.07	0.017	(0.052)	0.003	0.014
271	22.58	0.07	0.017	(0.052)	0.003	0.014
272	22.67	0.07	0.017	(0.051)	0.003	0.014
273	22.75	0.07	0.017	(0.051)	0.003	0.014
274	22.83	0.07	0.017	(0.051)	0.003	0.014
275	22.92	0.07	0.017	(0.051)	0.003	0.014
276	23.00	0.07	0.017	(0.051)	0.003	0.014
277	23.08	0.07	0.017	(0.051)	0.003	0.014
278	23.17	0.07	0.017	(0.051)	0.003	0.014
279	23.25	0.07	0.017	(0.051)	0.003	0.014
280	23.33	0.07	0.017	(0.050)	0.003	0.014
281	23.42	0.07	0.017	(0.050)	0.003	0.014
282	23.50	0.07	0.017	(0.050)	0.003	0.014
283	23.58	0.07	0.017	(0.050)	0.003	0.014
284	23.67	0.07	0.017	(0.050)	0.003	0.014
285	23.75	0.07	0.017	(0.050)	0.003	0.014
286	23.83	0.07	0.017	(0.050)	0.003	0.014
287	23.92	0.07	0.017	(0.050)	0.003	0.014
288	24.00	0.07	0.017	(0.050)	0.003	0.014

(Loss Rate Not Used)

Sum = 100.0 Sum = 21.3

Flood volume = Effective rainfall 1.77(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.9(Ac.Ft)
Total soil loss = 0.39(In)
Total soil loss = 0.187(Ac.Ft)
Total rainfall = 2.16(In)
Flood volume = 37134.3 Cubic Feet
Total soil loss = 8151.4 Cubic Feet

Peak flow rate of this hydrograph = 1.403(CFS)

++

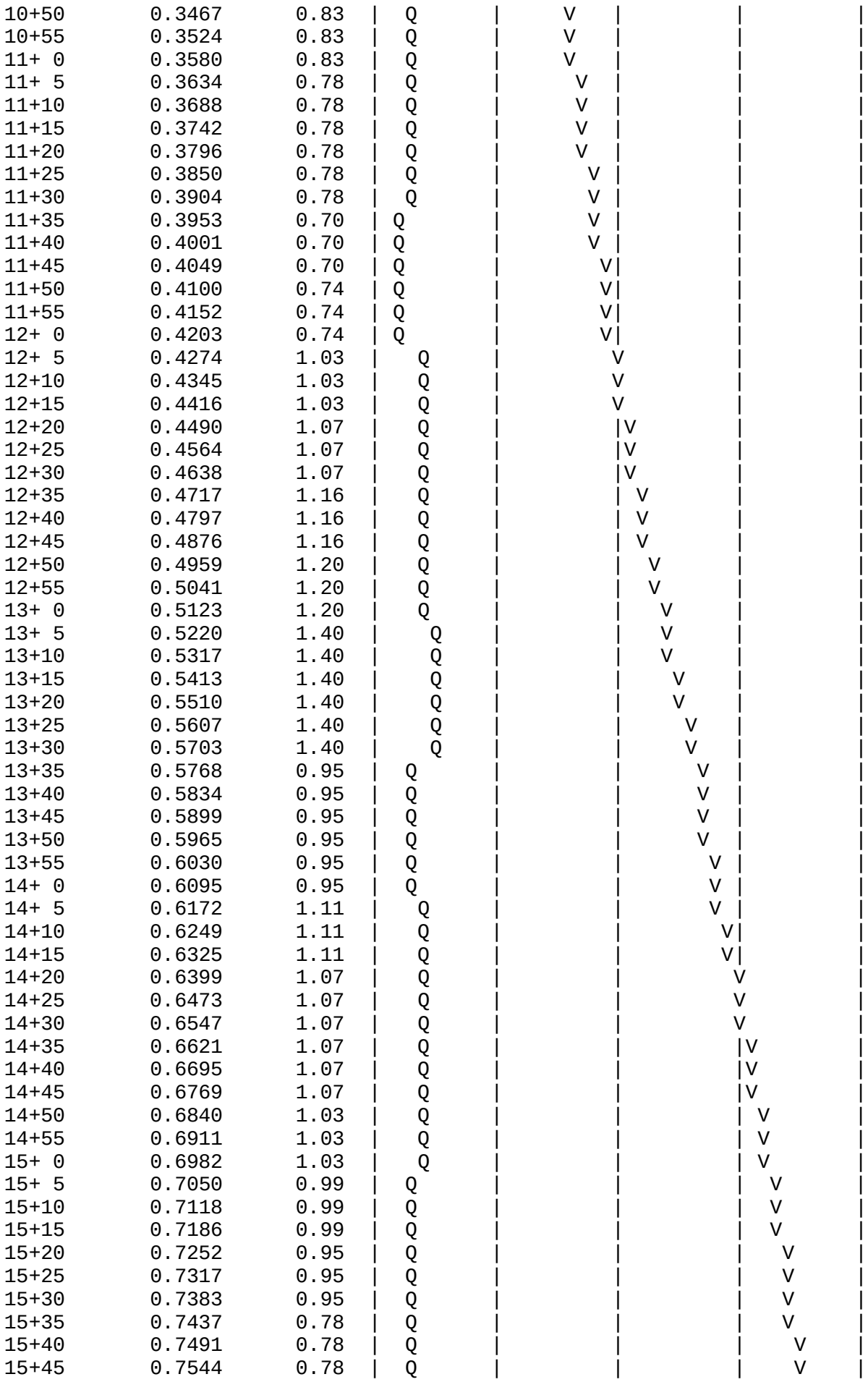
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0006	0.08	Q	|	|	|	|
0+10	0.0011	0.08	Q	|	|	|	|
0+15	0.0017	0.08	Q	|	|	|	|
0+20	0.0026	0.12	Q	|	|	|	|
0+25	0.0034	0.12	Q	|	|	|	|
0+30	0.0043	0.12	Q	|	|	|	|
0+35	0.0051	0.12	Q	|	|	|	|
0+40	0.0060	0.12	Q	|	|	|	|
0+45	0.0068	0.12	Q	|	|	|	|

```
0+50       0.0080      0.17  Q        |          |          |          |
0+55       0.0091      0.17  Q        |          |          |          |
1+ 0       0.0102      0.17  Q        |          |          |          |
1+ 5       0.0111      0.12  Q        |          |          |          |
1+10       0.0119      0.12  Q        |          |          |          |
1+15       0.0128      0.12  Q        |          |          |          |
1+20       0.0136      0.12  Q        |          |          |          |
1+25       0.0145      0.12  Q        |          |          |          |
1+30       0.0153      0.12  Q        |          |          |          |
1+35       0.0162      0.12  Q        |          |          |          |
1+40       0.0170      0.12  Q        |          |          |          |
1+45       0.0179      0.12  Q        |          |          |          |
1+50       0.0190      0.17  Q        |          |          |          |
1+55       0.0202      0.17  Q        |          |          |          |
2+ 0       0.0213      0.17  QV       |          |          |          |
2+ 5       0.0224      0.17  QV       |          |          |          |
2+10       0.0236      0.17  QV       |          |          |          |
2+15       0.0247      0.17  QV       |          |          |          |
2+20       0.0259      0.17  QV       |          |          |          |
2+25       0.0270      0.17  QV       |          |          |          |
2+30       0.0281      0.17  QV       |          |          |          |
2+35       0.0296      0.21  QV       |          |          |          |
2+40       0.0310      0.21  QV       |          |          |          |
2+45       0.0324      0.21  QV       |          |          |          |
2+50       0.0338      0.21  QV       |          |          |          |
2+55       0.0352      0.21  QV       |          |          |          |
3+ 0       0.0367      0.21  QV       |          |          |          |
3+ 5       0.0381      0.21  QV       |          |          |          |
3+10       0.0395      0.21  QV       |          |          |          |
3+15       0.0409      0.21  QV       |          |          |          |
3+20       0.0423      0.21  QV       |          |          |          |
3+25       0.0438      0.21  Q V      |          |          |          |
3+30       0.0452      0.21  Q V      |          |          |          |
3+35       0.0466      0.21  Q V      |          |          |          |
3+40       0.0480      0.21  Q V      |          |          |          |
3+45       0.0494      0.21  Q V      |          |          |          |
3+50       0.0511      0.25  Q V      |          |          |          |
3+55       0.0529      0.25  Q V      |          |          |          |
4+ 0       0.0546      0.25  Q V      |          |          |          |
4+ 5       0.0563      0.25  Q V      |          |          |          |
4+10       0.0580      0.25  Q V      |          |          |          |
4+15       0.0597      0.25  Q V      |          |          |          |
4+20       0.0617      0.29  |QV      |          |          |          |
4+25       0.0637      0.29  |QV      |          |          |          |
4+30       0.0656      0.29  |Q V     |          |          |          |
4+35       0.0676      0.29  |Q V     |          |          |          |
4+40       0.0696      0.29  |Q V     |          |          |          |
4+45       0.0716      0.29  |Q V     |          |          |          |
4+50       0.0739      0.33  |Q V     |          |          |          |
4+55       0.0762      0.33  |Q V     |          |          |          |
5+ 0       0.0784      0.33  |Q V     |          |          |          |
5+ 5       0.0801      0.25  Q  V     |          |          |          |
5+10       0.0818      0.25  Q  V     |          |          |          |
5+15       0.0835      0.25  Q  V     |          |          |          |
5+20       0.0855      0.29  |Q  V     |          |          |          |
5+25       0.0875      0.29  |Q  V     |          |          |          |
5+30       0.0895      0.29  |Q  V     |          |          |          |
5+35       0.0918      0.33  |Q  V     |          |          |          |
5+40       0.0941      0.33  |Q  V     |          |          |          |
5+45       0.0963      0.33  |Q  V     |          |          |          |
```

```
 5+50       0.0986      0.33  |Q  V     |          |          |          |
 5+55       0.1009      0.33  |Q  V     |          |          |          |
 6+ 0       0.1032      0.33  |Q  V     |          |          |          |
 6+ 5       0.1057      0.37  |Q  V     |          |          |          |
 6+10       0.1083      0.37  |Q   V    |          |          |          |
 6+15       0.1108      0.37  |Q   V    |          |          |          |
 6+20       0.1134      0.37  |Q   V    |          |          |          |
 6+25       0.1159      0.37  |Q   V    |          |          |          |
 6+30       0.1185      0.37  |Q   V    |          |          |          |
 6+35       0.1213      0.41  |Q   V    |          |          |          |
 6+40       0.1242      0.41  |Q   V    |          |          |          |
 6+45       0.1270      0.41  |Q   V    |          |          |          |
 6+50       0.1299      0.41  |Q    V   |          |          |          |
 6+55       0.1327      0.41  |Q    V   |          |          |          |
 7+ 0       0.1355      0.41  |Q    V   |          |          |          |
 7+ 5       0.1384      0.41  |Q    V   |          |          |          |
 7+10       0.1412      0.41  |Q    V   |          |          |          |
 7+15       0.1441      0.41  |Q    V   |          |          |          |
 7+20       0.1472      0.45  |Q    V   |          |          |          |
 7+25       0.1503      0.45  |Q     V  |          |          |          |
 7+30       0.1534      0.45  |Q     V  |          |          |          |
 7+35       0.1569      0.50  |Q     V  |          |          |          |
 7+40       0.1603      0.50  |Q     V  |          |          |          |
 7+45       0.1637      0.50  |Q     V  |          |          |          |
 7+50       0.1674      0.54  | Q    V  |          |          |          |
 7+55       0.1711      0.54  | Q     V |          |          |          |
 8+ 0       0.1748      0.54  | Q     V |          |          |          |
 8+ 5       0.1790      0.62  | Q     V |          |          |          |
 8+10       0.1833      0.62  | Q     V |          |          |          |
 8+15       0.1875      0.62  | Q     V |          |          |          |
 8+20       0.1918      0.62  | Q      V|          |          |          |
 8+25       0.1961      0.62  | Q      V|          |          |          |
 8+30       0.2003      0.62  | Q      V|          |          |          |
 8+35       0.2049      0.66  | Q      V|          |          |          |
 8+40       0.2094      0.66  | Q      V|          |          |          |
 8+45       0.2140      0.66  | Q       V          |          |          |
 8+50       0.2188      0.70  | Q       V          |          |          |
 8+55       0.2236      0.70  | Q       V          |          |          |
 9+ 0       0.2285      0.70  | Q       V          |          |          |
 9+ 5       0.2339      0.78  |  Q      V          |          |          |
 9+10       0.2393      0.78  |  Q      |V         |          |          |
 9+15       0.2447      0.78  |  Q      |V         |          |          |
 9+20       0.2503      0.83  |  Q      |V         |          |          |
 9+25       0.2560      0.83  |  Q      | V        |          |          |
 9+30       0.2617      0.83  |  Q      | V        |          |          |
 9+35       0.2677      0.87  |  Q      | V        |          |          |
 9+40       0.2736      0.87  |  Q      | V        |          |          |
 9+45       0.2796      0.87  |  Q      |  V       |          |          |
 9+50       0.2859      0.91  |  Q      |  V       |          |          |
 9+55       0.2921      0.91  |  Q      |  V       |          |          |
10+ 0       0.2984      0.91  |  Q      |   V      |          |          |
10+ 5       0.3026      0.62  | Q       |   V      |          |          |
10+10       0.3069      0.62  | Q       |   V      |          |          |
10+15       0.3112      0.62  | Q       |   V      |          |          |
10+20       0.3154      0.62  | Q       |   V      |          |          |
10+25       0.3197      0.62  | Q       |    V     |          |          |
10+30       0.3239      0.62  | Q       |    V     |          |          |
10+35       0.3296      0.83  |  Q      |    V     |          |          |
10+40       0.3353      0.83  |  Q      |    V     |          |          |
10+45       0.3410      0.83  |  Q      |     V    |          |          |
```



15+50	0.7598	0.78	| Q	|	|	| V	|
15+55	0.7652	0.78	| Q	|	|	| V	|
16+ 0	0.7706	0.78	| Q	|	|	| V	|
16+ 5	0.7718	0.17	Q	|	|	| V	|
16+10	0.7729	0.17	Q	|	|	| V	|
16+15	0.7741	0.17	Q	|	|	| V	|
16+20	0.7752	0.17	Q	|	|	| V	|
16+25	0.7763	0.17	Q	|	|	| V	|
16+30	0.7775	0.17	Q	|	|	| V	|
16+35	0.7783	0.12	Q	|	|	| V	|
16+40	0.7792	0.12	Q	|	|	| V	|
16+45	0.7800	0.12	Q	|	|	| V	|
16+50	0.7809	0.12	Q	|	|	| V	|
16+55	0.7817	0.12	Q	|	|	| V	|
17+ 0	0.7826	0.12	Q	|	|	| V	|
17+ 5	0.7840	0.21	Q	|	|	| V	|
17+10	0.7854	0.21	Q	|	|	| V	|
17+15	0.7868	0.21	Q	|	|	| V	|
17+20	0.7883	0.21	Q	|	|	| V	|
17+25	0.7897	0.21	Q	|	|	| V	|
17+30	0.7911	0.21	Q	|	|	| V	|
17+35	0.7925	0.21	Q	|	|	| V	|
17+40	0.7939	0.21	Q	|	|	| V	|
17+45	0.7954	0.21	Q	|	|	| V	|
17+50	0.7965	0.17	Q	|	|	| V	|
17+55	0.7976	0.17	Q	|	|	| V	|
18+ 0	0.7988	0.17	Q	|	|	| V	|
18+ 5	0.7999	0.17	Q	|	|	| V	|
18+10	0.8011	0.17	Q	|	|	| V	|
18+15	0.8022	0.17	Q	|	|	| V	|
18+20	0.8033	0.17	Q	|	|	| V	|
18+25	0.8045	0.17	Q	|	|	| V	|
18+30	0.8056	0.17	Q	|	|	| V	|
18+35	0.8065	0.12	Q	|	|	| V	|
18+40	0.8073	0.12	Q	|	|	| V	|
18+45	0.8082	0.12	Q	|	|	| V	|
18+50	0.8087	0.08	Q	|	|	| V	|
18+55	0.8093	0.08	Q	|	|	| V	|
19+ 0	0.8099	0.08	Q	|	|	| V	|
19+ 5	0.8107	0.12	Q	|	|	| V	|
19+10	0.8116	0.12	Q	|	|	| V	|
19+15	0.8124	0.12	Q	|	|	| V	|
19+20	0.8136	0.17	Q	|	|	| V	|
19+25	0.8147	0.17	Q	|	|	| V	|
19+30	0.8158	0.17	Q	|	|	| V	|
19+35	0.8167	0.12	Q	|	|	| V	|
19+40	0.8175	0.12	Q	|	|	| V	|
19+45	0.8184	0.12	Q	|	|	| V	|
19+50	0.8190	0.08	Q	|	|	| V	|
19+55	0.8195	0.08	Q	|	|	| V	|
20+ 0	0.8201	0.08	Q	|	|	| V	|
20+ 5	0.8209	0.12	Q	|	|	| V	|
20+10	0.8218	0.12	Q	|	|	| V	|
20+15	0.8226	0.12	Q	|	|	| V	|
20+20	0.8235	0.12	Q	|	|	| V	|
20+25	0.8244	0.12	Q	|	|	| V	|
20+30	0.8252	0.12	Q	|	|	| V	|
20+35	0.8261	0.12	Q	|	|	| V	|
20+40	0.8269	0.12	Q	|	|	| V	|
20+45	0.8278	0.12	Q	|	|	| V	|

```
  20+50       0.8283      0.08  Q          |          |          |        V |
  20+55       0.8289      0.08  Q          |          |          |        V |
  21+ 0       0.8295      0.08  Q          |          |          |        V |
  21+ 5       0.8303      0.12  Q          |          |          |        V |
  21+10       0.8312      0.12  Q          |          |          |         V|
  21+15       0.8320      0.12  Q          |          |          |         V|
  21+20       0.8326      0.08  Q          |          |          |         V|
  21+25       0.8332      0.08  Q          |          |          |         V|
  21+30       0.8337      0.08  Q          |          |          |         V|
  21+35       0.8346      0.12  Q          |          |          |         V|
  21+40       0.8354      0.12  Q          |          |          |         V|
  21+45       0.8363      0.12  Q          |          |          |         V|
  21+50       0.8369      0.08  Q          |          |          |         V|
  21+55       0.8374      0.08  Q          |          |          |         V|
  22+ 0       0.8380      0.08  Q          |          |          |         V|
  22+ 5       0.8388      0.12  Q          |          |          |         V|
  22+10       0.8397      0.12  Q          |          |          |         V|
  22+15       0.8406      0.12  Q          |          |          |         V|
  22+20       0.8411      0.08  Q          |          |          |         V|
  22+25       0.8417      0.08  Q          |          |          |         V|
  22+30       0.8423      0.08  Q          |          |          |         V|
  22+35       0.8428      0.08  Q          |          |          |         V|
  22+40       0.8434      0.08  Q          |          |          |         V|
  22+45       0.8440      0.08  Q          |          |          |         V|
  22+50       0.8445      0.08  Q          |          |          |         V|
  22+55       0.8451      0.08  Q          |          |          |         V|
  23+ 0       0.8457      0.08  Q          |          |          |         V|
  23+ 5       0.8462      0.08  Q          |          |          |         V|
  23+10       0.8468      0.08  Q          |          |          |         V|
  23+15       0.8474      0.08  Q          |          |          |         V|
  23+20       0.8479      0.08  Q          |          |          |         V|
  23+25       0.8485      0.08  Q          |          |          |         V|
  23+30       0.8491      0.08  Q          |          |          |         V|
  23+35       0.8496      0.08  Q          |          |          |         V|
  23+40       0.8502      0.08  Q          |          |          |         V|
  23+45       0.8508      0.08  Q          |          |          |         V|
  23+50       0.8513      0.08  Q          |          |          |         V|
  23+55       0.8519      0.08  Q          |          |          |         V|
  24+ 0       0.8525      0.08  Q          |          |          |          V
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV110.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
10-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.50	2.88

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.20	6.92

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
		Sum = 100.000	Sum= 5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.40	0.321	(0.062)	0.058	0.264
2	0.17	4.70	0.444	0.062	(0.080)	0.382
3	0.25	4.70	0.444	0.062	(0.080)	0.382
4	0.33	5.10	0.482	0.062	(0.087)	0.420
5	0.42	5.80	0.548	0.062	(0.099)	0.486
6	0.50	5.90	0.558	0.062	(0.100)	0.496
7	0.58	7.10	0.671	0.062	(0.121)	0.609
8	0.67	8.70	0.823	0.062	(0.148)	0.761
9	0.75	13.20	1.248	0.062	(0.225)	1.186
10	0.83	29.70	2.808	0.062	(0.505)	2.746
11	0.92	7.70	0.728	0.062	(0.131)	0.666
12	1.00	4.00	0.378	0.062	(0.068)	0.316
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	8.7

Flood volume = Effective rainfall 0.73(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)

```
    Total soil loss =      0.06(In)
    Total soil loss =     0.030(Ac.Ft)
    Total rainfall =      0.79(In)
    Flood volume =       15211.2 Cubic Feet
    Total soil loss =        1292.4 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =     15.978(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        1 - H O U R    S T O R M
                   R u n o f f      H y d r o g r a p h
    ---------------------------------------------------------------------
                Hydrograph in   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        5.0      10.0      15.0      20.0
  ------------------------------------------------------------------------
    0+ 5       0.0106      1.53  |V Q      |          |          |          |
    0+10       0.0259      2.22  | V Q     |          |          |          |
    0+15       0.0412      2.22  |   Q     |          |          |          |
    0+20       0.0580      2.44  |   Q V   |          |          |          |
    0+25       0.0775      2.83  |    Q  V |          |          |          |
    0+30       0.0974      2.88  |    Q    |V         |          |          |
    0+35       0.1218      3.54  |      Q  |  V       |          |          |
    0+40       0.1523      4.43  |       Q |      V   |          |          |
    0+45       0.1998      6.90  |         |  Q       | V        |          |
    0+50       0.3098     15.98  |         |          |          |Q   V     |
    0+55       0.3365      3.87  |      Q  |          |          |       V  |
    1+ 0       0.3492      1.84  |  Q      |          |          |          V
--------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV310.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
10-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.80	4.62

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.80	10.39

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 1.211(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.211(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.189	(0.062)		0.034	0.155
2	0.17	1.30	0.189	(0.062)		0.034	0.155
3	0.25	1.10	0.160	(0.062)		0.029	0.131
4	0.33	1.50	0.218	(0.062)		0.039	0.179
5	0.42	1.50	0.218	(0.062)		0.039	0.179
6	0.50	1.80	0.262	(0.062)		0.047	0.215
7	0.58	1.50	0.218	(0.062)		0.039	0.179
8	0.67	1.80	0.262	(0.062)		0.047	0.215
9	0.75	1.80	0.262	(0.062)		0.047	0.215
10	0.83	1.50	0.218	(0.062)		0.039	0.179
11	0.92	1.60	0.233	(0.062)		0.042	0.191
12	1.00	1.80	0.262	(0.062)		0.047	0.215
13	1.08	2.20	0.320	(0.062)		0.058	0.262
14	1.17	2.20	0.320	(0.062)		0.058	0.262
15	1.25	2.20	0.320	(0.062)		0.058	0.262
16	1.33	2.00	0.291	(0.062)		0.052	0.238
17	1.42	2.60	0.378	0.062	(	0.068)	0.316
18	1.50	2.70	0.392	0.062	(	0.071)	0.330

19	1.58	2.40	0.349	0.062	(0.063)	0.287
20	1.67	2.70	0.392	0.062	(0.071)	0.330
21	1.75	3.30	0.480	0.062	(0.086)	0.418
22	1.83	3.10	0.451	0.062	(0.081)	0.389
23	1.92	2.90	0.422	0.062	(0.076)	0.360
24	2.00	3.00	0.436	0.062	(0.078)	0.374
25	2.08	3.10	0.451	0.062	(0.081)	0.389
26	2.17	4.20	0.611	0.062	(0.110)	0.548
27	2.25	5.00	0.727	0.062	(0.131)	0.665
28	2.33	3.50	0.509	0.062	(0.092)	0.447
29	2.42	6.80	0.988	0.062	(0.178)	0.926
30	2.50	7.30	1.061	0.062	(0.191)	0.999
31	2.58	8.20	1.192	0.062	(0.215)	1.130
32	2.67	5.90	0.858	0.062	(0.154)	0.796
33	2.75	2.00	0.291	(0.062)	0.052	0.238
34	2.83	1.80	0.262	(0.062)	0.047	0.215
35	2.92	1.80	0.262	(0.062)	0.047	0.215
36	3.00	0.60	0.087	(0.062)	0.016	0.072

(Loss Rate Not Used)

Sum = 100.0 Sum = 12.7

Flood volume = Effective rainfall 1.06(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.5(Ac.Ft)
Total soil loss = 0.16(In)
Total soil loss = 0.075(Ac.Ft)
Total rainfall = 1.21(In)
Flood volume = 22118.6 Cubic Feet
Total soil loss = 3253.8 Cubic Feet

Peak flow rate of this hydrograph = 6.574(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 2.5 5.0 7.5 10.0
0+ 5	0.0062	0.90	V Q | | | |
0+10	0.0124	0.90	V Q | | | |
0+15	0.0177	0.76	|V Q | | | |
0+20	0.0248	1.04	|V Q | | | |
0+25	0.0320	1.04	| V Q | | | |
0+30	0.0406	1.25	| VQ | | | |
0+35	0.0478	1.04	| VQ | | | |
0+40	0.0564	1.25	| Q | | | |
0+45	0.0650	1.25	| QV | | | |
0+50	0.0721	1.04	| QV | | | |
0+55	0.0798	1.11	| Q V | | | |
1+ 0	0.0884	1.25	| Q V | | | |
1+ 5	0.0989	1.53	| QV | | | |
1+10	0.1094	1.53	| Q V | | | |
1+15	0.1199	1.53	| Q V| | | |
1+20	0.1294	1.39	| Q V | | |
1+25	0.1421	1.84	| Q |V | | |
1+30	0.1553	1.92	| Q | V | | |
1+35	0.1668	1.67	| Q | V | | |
1+40	0.1801	1.92	| Q | V | | |
1+45	0.1968	2.43	| Q| V | | |

```
    1+50       0.2124      2.26  |        Q|     V   |         |         |
    1+55       0.2268      2.09  |       Q |      V  |         |         |
    2+ 0       0.2418      2.18  |       Q |         V|         |         |
    2+ 5       0.2573      2.26  |        Q|          V         |         |
    2+10       0.2793      3.19  |         | Q        | V       |         |
    2+15       0.3060      3.87  |         |    Q     |   V     |         |
    2+20       0.3239      2.60  |         Q          |    V    |         |
    2+25       0.3610      5.39  |         |          |Q      V |         |
    2+30       0.4010      5.81  |         |          |  Q      |V        |
    2+35       0.4463      6.57  |         |          |     Q   |    V    |
    2+40       0.4782      4.63  |         |       Q  |         |      V  |
    2+45       0.4877      1.39  |    Q    |          |         |       V |
    2+50       0.4963      1.25  |   Q     |          |         |        V|
    2+55       0.5049      1.25  |   Q     |          |         |        V|
    3+ 0       0.5078      0.42  |Q        |          |         |        V|
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV610.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
10-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.00	5.77

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	2.50	14.42

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.617(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.617(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	1465.592	100.000	5.815
		Sum = 100.000	Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.097	(0.062)	0.017	0.080
2	0.17	0.60	0.116	(0.062)	0.021	0.095
3	0.25	0.60	0.116	(0.062)	0.021	0.095
4	0.33	0.60	0.116	(0.062)	0.021	0.095
5	0.42	0.60	0.116	(0.062)	0.021	0.095
6	0.50	0.70	0.136	(0.062)	0.024	0.111
7	0.58	0.70	0.136	(0.062)	0.024	0.111
8	0.67	0.70	0.136	(0.062)	0.024	0.111
9	0.75	0.70	0.136	(0.062)	0.024	0.111
10	0.83	0.70	0.136	(0.062)	0.024	0.111
11	0.92	0.70	0.136	(0.062)	0.024	0.111
12	1.00	0.80	0.155	(0.062)	0.028	0.127
13	1.08	0.80	0.155	(0.062)	0.028	0.127
14	1.17	0.80	0.155	(0.062)	0.028	0.127
15	1.25	0.80	0.155	(0.062)	0.028	0.127
16	1.33	0.80	0.155	(0.062)	0.028	0.127
17	1.42	0.80	0.155	(0.062)	0.028	0.127
18	1.50	0.80	0.155	(0.062)	0.028	0.127

19	1.58	0.80	0.155	(0.062)	0.028	0.127
20	1.67	0.80	0.155	(0.062)	0.028	0.127
21	1.75	0.80	0.155	(0.062)	0.028	0.127
22	1.83	0.80	0.155	(0.062)	0.028	0.127
23	1.92	0.80	0.155	(0.062)	0.028	0.127
24	2.00	0.90	0.175	(0.062)	0.031	0.143
25	2.08	0.80	0.155	(0.062)	0.028	0.127
26	2.17	0.90	0.175	(0.062)	0.031	0.143
27	2.25	0.90	0.175	(0.062)	0.031	0.143
28	2.33	0.90	0.175	(0.062)	0.031	0.143
29	2.42	0.90	0.175	(0.062)	0.031	0.143
30	2.50	0.90	0.175	(0.062)	0.031	0.143
31	2.58	0.90	0.175	(0.062)	0.031	0.143
32	2.67	0.90	0.175	(0.062)	0.031	0.143
33	2.75	1.00	0.194	(0.062)	0.035	0.159
34	2.83	1.00	0.194	(0.062)	0.035	0.159
35	2.92	1.00	0.194	(0.062)	0.035	0.159
36	3.00	1.00	0.194	(0.062)	0.035	0.159
37	3.08	1.00	0.194	(0.062)	0.035	0.159
38	3.17	1.10	0.213	(0.062)	0.038	0.175
39	3.25	1.10	0.213	(0.062)	0.038	0.175
40	3.33	1.10	0.213	(0.062)	0.038	0.175
41	3.42	1.20	0.233	(0.062)	0.042	0.191
42	3.50	1.30	0.252	(0.062)	0.045	0.207
43	3.58	1.40	0.272	(0.062)	0.049	0.223
44	3.67	1.40	0.272	(0.062)	0.049	0.223
45	3.75	1.50	0.291	(0.062)	0.052	0.239
46	3.83	1.50	0.291	(0.062)	0.052	0.239
47	3.92	1.60	0.310	(0.062)	0.056	0.255
48	4.00	1.60	0.310	(0.062)	0.056	0.255
49	4.08	1.70	0.330	(0.062)	0.059	0.271
50	4.17	1.80	0.349	0.062	(0.063)	0.287
51	4.25	1.90	0.369	0.062	(0.066)	0.307
52	4.33	2.00	0.388	0.062	(0.070)	0.326
53	4.42	2.10	0.408	0.062	(0.073)	0.345
54	4.50	2.10	0.408	0.062	(0.073)	0.345
55	4.58	2.20	0.427	0.062	(0.077)	0.365
56	4.67	2.30	0.446	0.062	(0.080)	0.384
57	4.75	2.40	0.466	0.062	(0.084)	0.404
58	4.83	2.40	0.466	0.062	(0.084)	0.404
59	4.92	2.50	0.485	0.062	(0.087)	0.423
60	5.00	2.60	0.505	0.062	(0.091)	0.442
61	5.08	3.10	0.602	0.062	(0.108)	0.539
62	5.17	3.60	0.699	0.062	(0.126)	0.637
63	5.25	3.90	0.757	0.062	(0.136)	0.695
64	5.33	4.20	0.815	0.062	(0.147)	0.753
65	5.42	4.70	0.912	0.062	(0.164)	0.850
66	5.50	5.60	1.087	0.062	(0.196)	1.025
67	5.58	1.90	0.369	0.062	(0.066)	0.307
68	5.67	0.90	0.175	(0.062)	0.031	0.143
69	5.75	0.60	0.116	(0.062)	0.021	0.095
70	5.83	0.50	0.097	(0.062)	0.017	0.080
71	5.92	0.30	0.058	(0.062)	0.010	0.048
72	6.00	0.20	0.039	(0.062)	0.007	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 16.6

Flood volume = Effective rainfall 1.38(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)
Total soil loss = 0.23(In)
Total soil loss = 0.113(Ac.Ft)

Total rainfall = 1.62(In)
Flood volume = 28951.3 Cubic Feet
Total soil loss = 4918.6 Cubic Feet

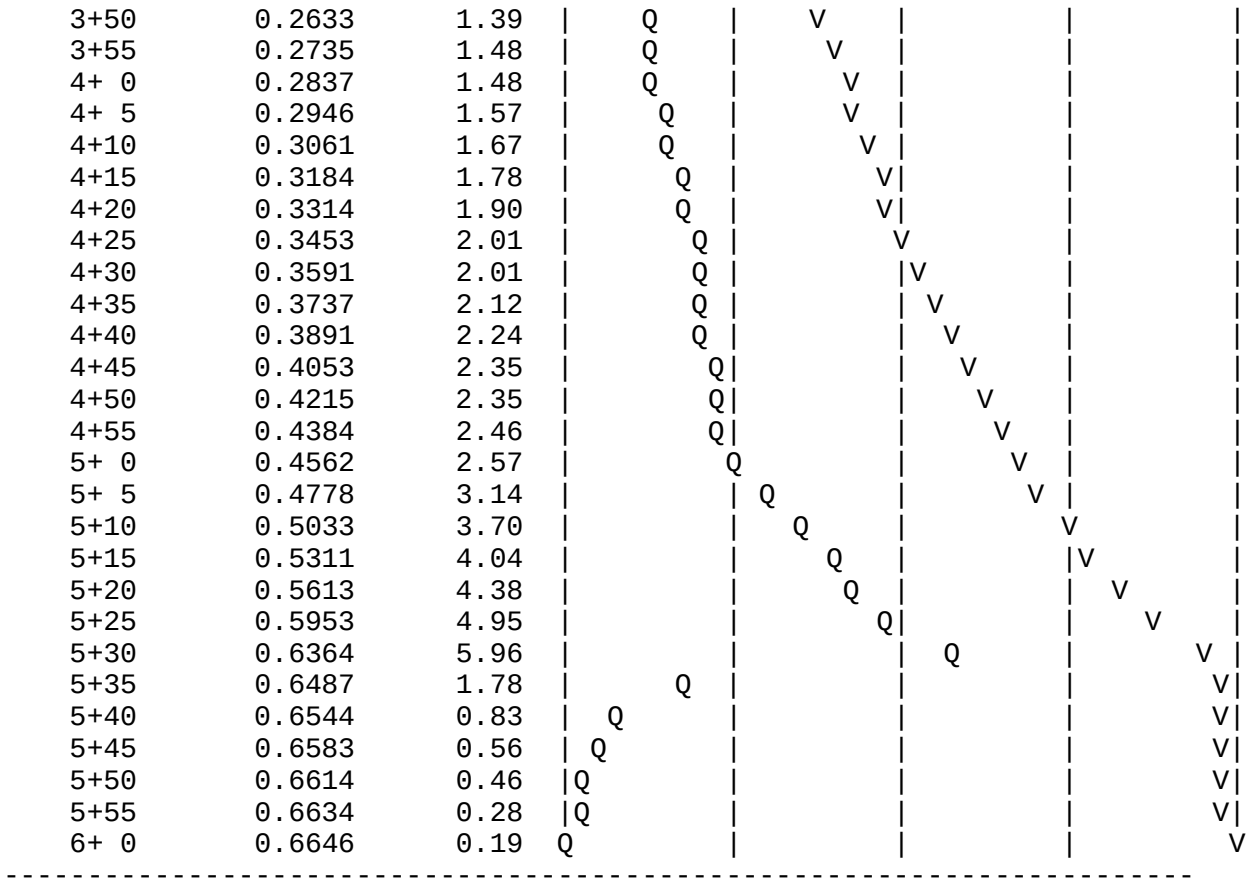
Peak flow rate of this hydrograph = 5.961(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0032	0.46	VQ				
0+10	0.0070	0.56	V Q				
0+15	0.0108	0.56	V Q				
0+20	0.0147	0.56	V Q				
0+25	0.0185	0.56	|VQ				
0+30	0.0230	0.65	|VQ				
0+35	0.0274	0.65	|VQ				
0+40	0.0319	0.65	|VQ				
0+45	0.0363	0.65	| Q				
0+50	0.0408	0.65	| Q				
0+55	0.0453	0.65	| Q				
1+ 0	0.0504	0.74	| QV				
1+ 5	0.0555	0.74	| QV				
1+10	0.0606	0.74	| QV				
1+15	0.0657	0.74	| QV				
1+20	0.0708	0.74	| Q V				
1+25	0.0759	0.74	| Q V				
1+30	0.0810	0.74	| Q V				
1+35	0.0861	0.74	| Q V				
1+40	0.0912	0.74	| Q V				
1+45	0.0963	0.74	| Q V				
1+50	0.1014	0.74	| Q V				
1+55	0.1065	0.74	| Q V				
2+ 0	0.1122	0.83	| Q V				
2+ 5	0.1173	0.74	| Q V				
2+10	0.1231	0.83	| Q V				
2+15	0.1288	0.83	| Q V				
2+20	0.1345	0.83	| Q V				
2+25	0.1403	0.83	| Q V				
2+30	0.1460	0.83	| Q V				
2+35	0.1517	0.83	| Q V				
2+40	0.1575	0.83	| Q V				
2+45	0.1639	0.93	| Q V				
2+50	0.1702	0.93	| Q V				
2+55	0.1766	0.93	| Q V				
3+ 0	0.1830	0.93	| Q |V				
3+ 5	0.1894	0.93	| Q |V				
3+10	0.1964	1.02	| Q |V				
3+15	0.2034	1.02	| Q | V				
3+20	0.2104	1.02	| Q | V				
3+25	0.2181	1.11	| Q | V				
3+30	0.2263	1.20	| Q | V				
3+35	0.2353	1.30	| Q | V				
3+40	0.2442	1.30	| Q | V				
3+45	0.2538	1.39	| Q | V				



U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV2410.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
10-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.60	9.23

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	4.00	23.08

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 2.587(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.587(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	1465.592	100.000	5.815
		Sum = 100.000	Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.021	(0.110)	0.004	0.017
2	0.17	0.07	0.021	(0.110)	0.004	0.017
3	0.25	0.07	0.021	(0.109)	0.004	0.017
4	0.33	0.10	0.031	(0.109)	0.006	0.025
5	0.42	0.10	0.031	(0.108)	0.006	0.025
6	0.50	0.10	0.031	(0.108)	0.006	0.025
7	0.58	0.10	0.031	(0.107)	0.006	0.025
8	0.67	0.10	0.031	(0.107)	0.006	0.025
9	0.75	0.10	0.031	(0.107)	0.006	0.025
10	0.83	0.13	0.041	(0.106)	0.007	0.034
11	0.92	0.13	0.041	(0.106)	0.007	0.034
12	1.00	0.13	0.041	(0.105)	0.007	0.034
13	1.08	0.10	0.031	(0.105)	0.006	0.025
14	1.17	0.10	0.031	(0.105)	0.006	0.025
15	1.25	0.10	0.031	(0.104)	0.006	0.025
16	1.33	0.10	0.031	(0.104)	0.006	0.025
17	1.42	0.10	0.031	(0.103)	0.006	0.025
18	1.50	0.10	0.031	(0.103)	0.006	0.025

19	1.58	0.10	0.031	(0.102)	0.006	0.025
20	1.67	0.10	0.031	(0.102)	0.006	0.025
21	1.75	0.10	0.031	(0.102)	0.006	0.025
22	1.83	0.13	0.041	(0.101)	0.007	0.034
23	1.92	0.13	0.041	(0.101)	0.007	0.034
24	2.00	0.13	0.041	(0.100)	0.007	0.034
25	2.08	0.13	0.041	(0.100)	0.007	0.034
26	2.17	0.13	0.041	(0.100)	0.007	0.034
27	2.25	0.13	0.041	(0.099)	0.007	0.034
28	2.33	0.13	0.041	(0.099)	0.007	0.034
29	2.42	0.13	0.041	(0.098)	0.007	0.034
30	2.50	0.13	0.041	(0.098)	0.007	0.034
31	2.58	0.17	0.052	(0.098)	0.009	0.042
32	2.67	0.17	0.052	(0.097)	0.009	0.042
33	2.75	0.17	0.052	(0.097)	0.009	0.042
34	2.83	0.17	0.052	(0.096)	0.009	0.042
35	2.92	0.17	0.052	(0.096)	0.009	0.042
36	3.00	0.17	0.052	(0.096)	0.009	0.042
37	3.08	0.17	0.052	(0.095)	0.009	0.042
38	3.17	0.17	0.052	(0.095)	0.009	0.042
39	3.25	0.17	0.052	(0.094)	0.009	0.042
40	3.33	0.17	0.052	(0.094)	0.009	0.042
41	3.42	0.17	0.052	(0.094)	0.009	0.042
42	3.50	0.17	0.052	(0.093)	0.009	0.042
43	3.58	0.17	0.052	(0.093)	0.009	0.042
44	3.67	0.17	0.052	(0.092)	0.009	0.042
45	3.75	0.17	0.052	(0.092)	0.009	0.042
46	3.83	0.20	0.062	(0.092)	0.011	0.051
47	3.92	0.20	0.062	(0.091)	0.011	0.051
48	4.00	0.20	0.062	(0.091)	0.011	0.051
49	4.08	0.20	0.062	(0.091)	0.011	0.051
50	4.17	0.20	0.062	(0.090)	0.011	0.051
51	4.25	0.20	0.062	(0.090)	0.011	0.051
52	4.33	0.23	0.072	(0.089)	0.013	0.059
53	4.42	0.23	0.072	(0.089)	0.013	0.059
54	4.50	0.23	0.072	(0.089)	0.013	0.059
55	4.58	0.23	0.072	(0.088)	0.013	0.059
56	4.67	0.23	0.072	(0.088)	0.013	0.059
57	4.75	0.23	0.072	(0.087)	0.013	0.059
58	4.83	0.27	0.083	(0.087)	0.015	0.068
59	4.92	0.27	0.083	(0.087)	0.015	0.068
60	5.00	0.27	0.083	(0.086)	0.015	0.068
61	5.08	0.20	0.062	(0.086)	0.011	0.051
62	5.17	0.20	0.062	(0.086)	0.011	0.051
63	5.25	0.20	0.062	(0.085)	0.011	0.051
64	5.33	0.23	0.072	(0.085)	0.013	0.059
65	5.42	0.23	0.072	(0.084)	0.013	0.059
66	5.50	0.23	0.072	(0.084)	0.013	0.059
67	5.58	0.27	0.083	(0.084)	0.015	0.068
68	5.67	0.27	0.083	(0.083)	0.015	0.068
69	5.75	0.27	0.083	(0.083)	0.015	0.068
70	5.83	0.27	0.083	(0.083)	0.015	0.068
71	5.92	0.27	0.083	(0.082)	0.015	0.068
72	6.00	0.27	0.083	(0.082)	0.015	0.068
73	6.08	0.30	0.093	(0.082)	0.017	0.076
74	6.17	0.30	0.093	(0.081)	0.017	0.076
75	6.25	0.30	0.093	(0.081)	0.017	0.076
76	6.33	0.30	0.093	(0.080)	0.017	0.076
77	6.42	0.30	0.093	(0.080)	0.017	0.076
78	6.50	0.30	0.093	(0.080)	0.017	0.076

79	6.58	0.33	0.103	(0.079)	0.019	0.085
80	6.67	0.33	0.103	(0.079)	0.019	0.085
81	6.75	0.33	0.103	(0.079)	0.019	0.085
82	6.83	0.33	0.103	(0.078)	0.019	0.085
83	6.92	0.33	0.103	(0.078)	0.019	0.085
84	7.00	0.33	0.103	(0.078)	0.019	0.085
85	7.08	0.33	0.103	(0.077)	0.019	0.085
86	7.17	0.33	0.103	(0.077)	0.019	0.085
87	7.25	0.33	0.103	(0.077)	0.019	0.085
88	7.33	0.37	0.114	(0.076)	0.020	0.093
89	7.42	0.37	0.114	(0.076)	0.020	0.093
90	7.50	0.37	0.114	(0.076)	0.020	0.093
91	7.58	0.40	0.124	(0.075)	0.022	0.102
92	7.67	0.40	0.124	(0.075)	0.022	0.102
93	7.75	0.40	0.124	(0.074)	0.022	0.102
94	7.83	0.43	0.135	(0.074)	0.024	0.110
95	7.92	0.43	0.135	(0.074)	0.024	0.110
96	8.00	0.43	0.135	(0.073)	0.024	0.110
97	8.08	0.50	0.155	(0.073)	0.028	0.127
98	8.17	0.50	0.155	(0.073)	0.028	0.127
99	8.25	0.50	0.155	(0.072)	0.028	0.127
100	8.33	0.50	0.155	(0.072)	0.028	0.127
101	8.42	0.50	0.155	(0.072)	0.028	0.127
102	8.50	0.50	0.155	(0.071)	0.028	0.127
103	8.58	0.53	0.166	(0.071)	0.030	0.136
104	8.67	0.53	0.166	(0.071)	0.030	0.136
105	8.75	0.53	0.166	(0.070)	0.030	0.136
106	8.83	0.57	0.176	(0.070)	0.032	0.144
107	8.92	0.57	0.176	(0.070)	0.032	0.144
108	9.00	0.57	0.176	(0.069)	0.032	0.144
109	9.08	0.63	0.197	(0.069)	0.035	0.161
110	9.17	0.63	0.197	(0.069)	0.035	0.161
111	9.25	0.63	0.197	(0.068)	0.035	0.161
112	9.33	0.67	0.207	(0.068)	0.037	0.170
113	9.42	0.67	0.207	(0.068)	0.037	0.170
114	9.50	0.67	0.207	(0.067)	0.037	0.170
115	9.58	0.70	0.217	(0.067)	0.039	0.178
116	9.67	0.70	0.217	(0.067)	0.039	0.178
117	9.75	0.70	0.217	(0.066)	0.039	0.178
118	9.83	0.73	0.228	(0.066)	0.041	0.187
119	9.92	0.73	0.228	(0.066)	0.041	0.187
120	10.00	0.73	0.228	(0.066)	0.041	0.187
121	10.08	0.50	0.155	(0.065)	0.028	0.127
122	10.17	0.50	0.155	(0.065)	0.028	0.127
123	10.25	0.50	0.155	(0.065)	0.028	0.127
124	10.33	0.50	0.155	(0.064)	0.028	0.127
125	10.42	0.50	0.155	(0.064)	0.028	0.127
126	10.50	0.50	0.155	(0.064)	0.028	0.127
127	10.58	0.67	0.207	(0.063)	0.037	0.170
128	10.67	0.67	0.207	(0.063)	0.037	0.170
129	10.75	0.67	0.207	(0.063)	0.037	0.170
130	10.83	0.67	0.207	(0.062)	0.037	0.170
131	10.92	0.67	0.207	(0.062)	0.037	0.170
132	11.00	0.67	0.207	(0.062)	0.037	0.170
133	11.08	0.63	0.197	(0.061)	0.035	0.161
134	11.17	0.63	0.197	(0.061)	0.035	0.161
135	11.25	0.63	0.197	(0.061)	0.035	0.161
136	11.33	0.63	0.197	(0.061)	0.035	0.161
137	11.42	0.63	0.197	(0.060)	0.035	0.161
138	11.50	0.63	0.197	(0.060)	0.035	0.161

139	11.58	0.57	0.176	(0.060)	0.032	0.144
140	11.67	0.57	0.176	(0.059)	0.032	0.144
141	11.75	0.57	0.176	(0.059)	0.032	0.144
142	11.83	0.60	0.186	(0.059)	0.034	0.153
143	11.92	0.60	0.186	(0.059)	0.034	0.153
144	12.00	0.60	0.186	(0.058)	0.034	0.153
145	12.08	0.83	0.259	(0.058)	0.047	0.212
146	12.17	0.83	0.259	(0.058)	0.047	0.212
147	12.25	0.83	0.259	(0.057)	0.047	0.212
148	12.33	0.87	0.269	(0.057)	0.048	0.221
149	12.42	0.87	0.269	(0.057)	0.048	0.221
150	12.50	0.87	0.269	(0.056)	0.048	0.221
151	12.58	0.93	0.290	(0.056)	0.052	0.238
152	12.67	0.93	0.290	(0.056)	0.052	0.238
153	12.75	0.93	0.290	(0.056)	0.052	0.238
154	12.83	0.97	0.300	(0.055)	0.054	0.246
155	12.92	0.97	0.300	(0.055)	0.054	0.246
156	13.00	0.97	0.300	(0.055)	0.054	0.246
157	13.08	1.13	0.352	0.055	(0.063)	0.297
158	13.17	1.13	0.352	0.054	(0.063)	0.298
159	13.25	1.13	0.352	0.054	(0.063)	0.298
160	13.33	1.13	0.352	0.054	(0.063)	0.298
161	13.42	1.13	0.352	0.053	(0.063)	0.298
162	13.50	1.13	0.352	0.053	(0.063)	0.299
163	13.58	0.77	0.238	(0.053)	0.043	0.195
164	13.67	0.77	0.238	(0.053)	0.043	0.195
165	13.75	0.77	0.238	(0.052)	0.043	0.195
166	13.83	0.77	0.238	(0.052)	0.043	0.195
167	13.92	0.77	0.238	(0.052)	0.043	0.195
168	14.00	0.77	0.238	(0.052)	0.043	0.195
169	14.08	0.90	0.279	(0.051)	0.050	0.229
170	14.17	0.90	0.279	(0.051)	0.050	0.229
171	14.25	0.90	0.279	(0.051)	0.050	0.229
172	14.33	0.87	0.269	(0.050)	0.048	0.221
173	14.42	0.87	0.269	(0.050)	0.048	0.221
174	14.50	0.87	0.269	(0.050)	0.048	0.221
175	14.58	0.87	0.269	(0.050)	0.048	0.221
176	14.67	0.87	0.269	(0.049)	0.048	0.221
177	14.75	0.87	0.269	(0.049)	0.048	0.221
178	14.83	0.83	0.259	(0.049)	0.047	0.212
179	14.92	0.83	0.259	(0.049)	0.047	0.212
180	15.00	0.83	0.259	(0.048)	0.047	0.212
181	15.08	0.80	0.248	(0.048)	0.045	0.204
182	15.17	0.80	0.248	(0.048)	0.045	0.204
183	15.25	0.80	0.248	(0.048)	0.045	0.204
184	15.33	0.77	0.238	(0.047)	0.043	0.195
185	15.42	0.77	0.238	(0.047)	0.043	0.195
186	15.50	0.77	0.238	(0.047)	0.043	0.195
187	15.58	0.63	0.197	(0.047)	0.035	0.161
188	15.67	0.63	0.197	(0.047)	0.035	0.161
189	15.75	0.63	0.197	(0.046)	0.035	0.161
190	15.83	0.63	0.197	(0.046)	0.035	0.161
191	15.92	0.63	0.197	(0.046)	0.035	0.161
192	16.00	0.63	0.197	(0.046)	0.035	0.161
193	16.08	0.13	0.041	(0.045)	0.007	0.034
194	16.17	0.13	0.041	(0.045)	0.007	0.034
195	16.25	0.13	0.041	(0.045)	0.007	0.034
196	16.33	0.13	0.041	(0.045)	0.007	0.034
197	16.42	0.13	0.041	(0.044)	0.007	0.034
198	16.50	0.13	0.041	(0.044)	0.007	0.034

199	16.58	0.10	0.031	(0.044)	0.006	0.025
200	16.67	0.10	0.031	(0.044)	0.006	0.025
201	16.75	0.10	0.031	(0.044)	0.006	0.025
202	16.83	0.10	0.031	(0.043)	0.006	0.025
203	16.92	0.10	0.031	(0.043)	0.006	0.025
204	17.00	0.10	0.031	(0.043)	0.006	0.025
205	17.08	0.17	0.052	(0.043)	0.009	0.042
206	17.17	0.17	0.052	(0.042)	0.009	0.042
207	17.25	0.17	0.052	(0.042)	0.009	0.042
208	17.33	0.17	0.052	(0.042)	0.009	0.042
209	17.42	0.17	0.052	(0.042)	0.009	0.042
210	17.50	0.17	0.052	(0.042)	0.009	0.042
211	17.58	0.17	0.052	(0.041)	0.009	0.042
212	17.67	0.17	0.052	(0.041)	0.009	0.042
213	17.75	0.17	0.052	(0.041)	0.009	0.042
214	17.83	0.13	0.041	(0.041)	0.007	0.034
215	17.92	0.13	0.041	(0.041)	0.007	0.034
216	18.00	0.13	0.041	(0.040)	0.007	0.034
217	18.08	0.13	0.041	(0.040)	0.007	0.034
218	18.17	0.13	0.041	(0.040)	0.007	0.034
219	18.25	0.13	0.041	(0.040)	0.007	0.034
220	18.33	0.13	0.041	(0.040)	0.007	0.034
221	18.42	0.13	0.041	(0.039)	0.007	0.034
222	18.50	0.13	0.041	(0.039)	0.007	0.034
223	18.58	0.10	0.031	(0.039)	0.006	0.025
224	18.67	0.10	0.031	(0.039)	0.006	0.025
225	18.75	0.10	0.031	(0.039)	0.006	0.025
226	18.83	0.07	0.021	(0.038)	0.004	0.017
227	18.92	0.07	0.021	(0.038)	0.004	0.017
228	19.00	0.07	0.021	(0.038)	0.004	0.017
229	19.08	0.10	0.031	(0.038)	0.006	0.025
230	19.17	0.10	0.031	(0.038)	0.006	0.025
231	19.25	0.10	0.031	(0.038)	0.006	0.025
232	19.33	0.13	0.041	(0.037)	0.007	0.034
233	19.42	0.13	0.041	(0.037)	0.007	0.034
234	19.50	0.13	0.041	(0.037)	0.007	0.034
235	19.58	0.10	0.031	(0.037)	0.006	0.025
236	19.67	0.10	0.031	(0.037)	0.006	0.025
237	19.75	0.10	0.031	(0.037)	0.006	0.025
238	19.83	0.07	0.021	(0.036)	0.004	0.017
239	19.92	0.07	0.021	(0.036)	0.004	0.017
240	20.00	0.07	0.021	(0.036)	0.004	0.017
241	20.08	0.10	0.031	(0.036)	0.006	0.025
242	20.17	0.10	0.031	(0.036)	0.006	0.025
243	20.25	0.10	0.031	(0.036)	0.006	0.025
244	20.33	0.10	0.031	(0.035)	0.006	0.025
245	20.42	0.10	0.031	(0.035)	0.006	0.025
246	20.50	0.10	0.031	(0.035)	0.006	0.025
247	20.58	0.10	0.031	(0.035)	0.006	0.025
248	20.67	0.10	0.031	(0.035)	0.006	0.025
249	20.75	0.10	0.031	(0.035)	0.006	0.025
250	20.83	0.07	0.021	(0.035)	0.004	0.017
251	20.92	0.07	0.021	(0.034)	0.004	0.017
252	21.00	0.07	0.021	(0.034)	0.004	0.017
253	21.08	0.10	0.031	(0.034)	0.006	0.025
254	21.17	0.10	0.031	(0.034)	0.006	0.025
255	21.25	0.10	0.031	(0.034)	0.006	0.025
256	21.33	0.07	0.021	(0.034)	0.004	0.017
257	21.42	0.07	0.021	(0.034)	0.004	0.017
258	21.50	0.07	0.021	(0.033)	0.004	0.017

259	21.58	0.10	0.031	(0.033)	0.006	0.025
260	21.67	0.10	0.031	(0.033)	0.006	0.025
261	21.75	0.10	0.031	(0.033)	0.006	0.025
262	21.83	0.07	0.021	(0.033)	0.004	0.017
263	21.92	0.07	0.021	(0.033)	0.004	0.017
264	22.00	0.07	0.021	(0.033)	0.004	0.017
265	22.08	0.10	0.031	(0.033)	0.006	0.025
266	22.17	0.10	0.031	(0.033)	0.006	0.025
267	22.25	0.10	0.031	(0.032)	0.006	0.025
268	22.33	0.07	0.021	(0.032)	0.004	0.017
269	22.42	0.07	0.021	(0.032)	0.004	0.017
270	22.50	0.07	0.021	(0.032)	0.004	0.017
271	22.58	0.07	0.021	(0.032)	0.004	0.017
272	22.67	0.07	0.021	(0.032)	0.004	0.017
273	22.75	0.07	0.021	(0.032)	0.004	0.017
274	22.83	0.07	0.021	(0.032)	0.004	0.017
275	22.92	0.07	0.021	(0.032)	0.004	0.017
276	23.00	0.07	0.021	(0.032)	0.004	0.017
277	23.08	0.07	0.021	(0.032)	0.004	0.017
278	23.17	0.07	0.021	(0.031)	0.004	0.017
279	23.25	0.07	0.021	(0.031)	0.004	0.017
280	23.33	0.07	0.021	(0.031)	0.004	0.017
281	23.42	0.07	0.021	(0.031)	0.004	0.017
282	23.50	0.07	0.021	(0.031)	0.004	0.017
283	23.58	0.07	0.021	(0.031)	0.004	0.017
284	23.67	0.07	0.021	(0.031)	0.004	0.017
285	23.75	0.07	0.021	(0.031)	0.004	0.017
286	23.83	0.07	0.021	(0.031)	0.004	0.017
287	23.92	0.07	0.021	(0.031)	0.004	0.017
288	24.00	0.07	0.021	(0.031)	0.004	0.017

(Loss Rate Not Used)

Sum = 100.0 Sum = 25.5

Flood volume = Effective rainfall 2.13(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 1.0(Ac.Ft)
Total soil loss = 0.46(In)
Total soil loss = 0.222(Ac.Ft)
Total rainfall = 2.59(In)
Flood volume = 44537.2 Cubic Feet
Total soil loss = 9655.1 Cubic Feet

Peak flow rate of this hydrograph = 1.738(CFS)

++

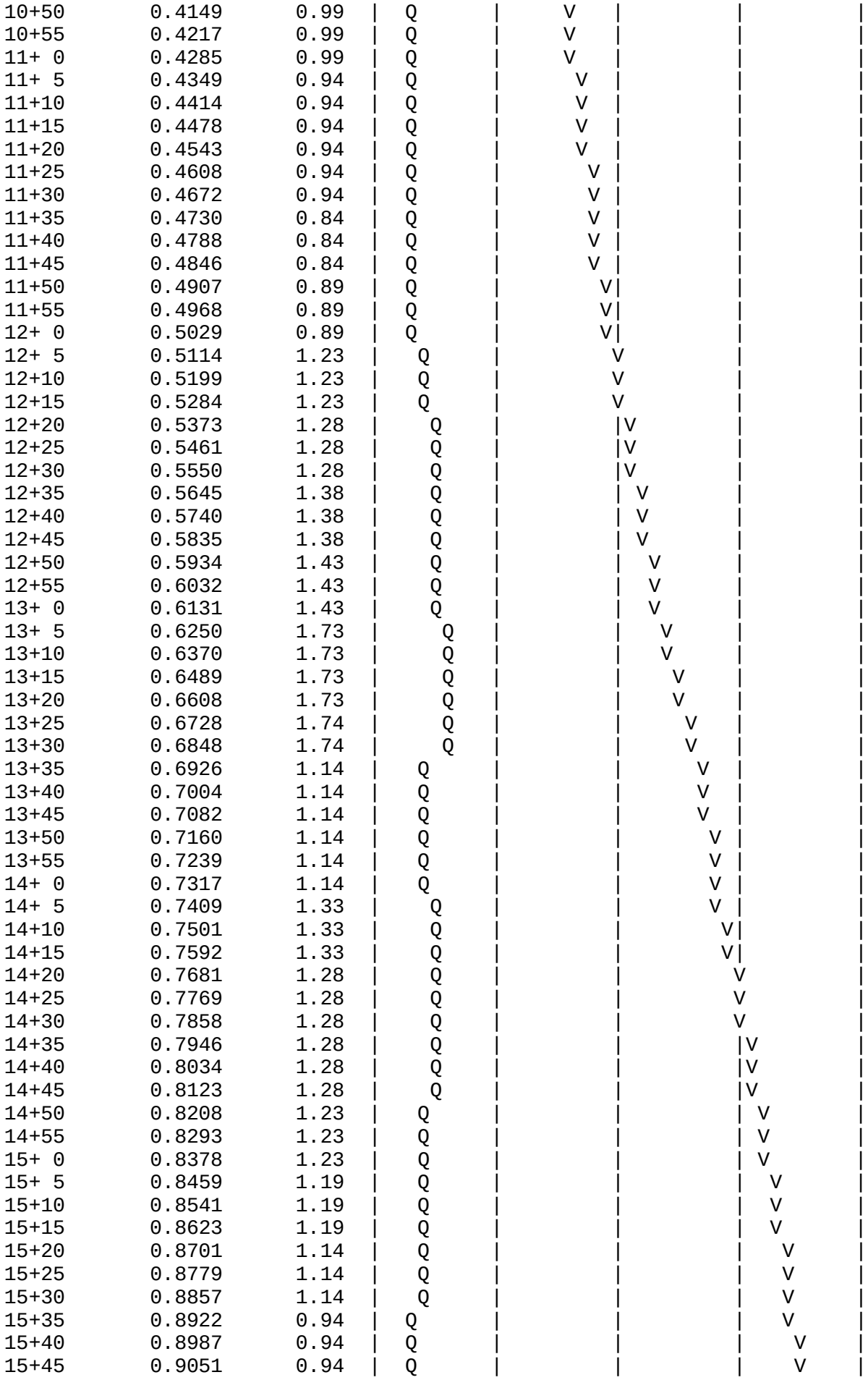
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0007	0.10	Q	|	|	|	|
0+10	0.0014	0.10	Q	|	|	|	|
0+15	0.0020	0.10	Q	|	|	|	|
0+20	0.0031	0.15	Q	|	|	|	|
0+25	0.0041	0.15	Q	|	|	|	|
0+30	0.0051	0.15	Q	|	|	|	|
0+35	0.0061	0.15	Q	|	|	|	|
0+40	0.0071	0.15	Q	|	|	|	|
0+45	0.0082	0.15	Q	|	|	|	|

0+50	0.0095	0.20	Q	|	|	|	|
0+55	0.0109	0.20	Q	|	|	|	|
1+ 0	0.0122	0.20	Q	|	|	|	|
1+ 5	0.0133	0.15	Q	|	|	|	|
1+10	0.0143	0.15	Q	|	|	|	|
1+15	0.0153	0.15	Q	|	|	|	|
1+20	0.0163	0.15	Q	|	|	|	|
1+25	0.0173	0.15	Q	|	|	|	|
1+30	0.0184	0.15	Q	|	|	|	|
1+35	0.0194	0.15	Q	|	|	|	|
1+40	0.0204	0.15	Q	|	|	|	|
1+45	0.0214	0.15	Q	|	|	|	|
1+50	0.0228	0.20	Q	|	|	|	|
1+55	0.0241	0.20	Q	|	|	|	|
2+ 0	0.0255	0.20	Q	|	|	|	|
2+ 5	0.0269	0.20	QV	|	|	|	|
2+10	0.0282	0.20	QV	|	|	|	|
2+15	0.0296	0.20	QV	|	|	|	|
2+20	0.0309	0.20	QV	|	|	|	|
2+25	0.0323	0.20	QV	|	|	|	|
2+30	0.0337	0.20	QV	|	|	|	|
2+35	0.0354	0.25	QV	|	|	|	|
2+40	0.0371	0.25	QV	|	|	|	|
2+45	0.0388	0.25	QV	|	|	|	|
2+50	0.0405	0.25	QV	|	|	|	|
2+55	0.0422	0.25	QV	|	|	|	|
3+ 0	0.0439	0.25	QV	|	|	|	|
3+ 5	0.0456	0.25	QV	|	|	|	|
3+10	0.0473	0.25	QV	|	|	|	|
3+15	0.0490	0.25	QV	|	|	|	|
3+20	0.0507	0.25	QV	|	|	|	|
3+25	0.0524	0.25	Q V	|	|	|	|
3+30	0.0541	0.25	Q V	|	|	|	|
3+35	0.0558	0.25	Q V	|	|	|	|
3+40	0.0575	0.25	Q V	|	|	|	|
3+45	0.0592	0.25	Q V	|	|	|	|
3+50	0.0612	0.30	|QV	|	|	|	|
3+55	0.0632	0.30	|QV	|	|	|	|
4+ 0	0.0653	0.30	|QV	|	|	|	|
4+ 5	0.0673	0.30	|QV	|	|	|	|
4+10	0.0694	0.30	|QV	|	|	|	|
4+15	0.0714	0.30	|QV	|	|	|	|
4+20	0.0738	0.35	|QV	|	|	|	|
4+25	0.0762	0.35	|QV	|	|	|	|
4+30	0.0786	0.35	|Q V	|	|	|	|
4+35	0.0809	0.35	|Q V	|	|	|	|
4+40	0.0833	0.35	|Q V	|	|	|	|
4+45	0.0857	0.35	|Q V	|	|	|	|
4+50	0.0884	0.40	|Q V	|	|	|	|
4+55	0.0911	0.40	|Q V	|	|	|	|
5+ 0	0.0939	0.40	|Q V	|	|	|	|
5+ 5	0.0959	0.30	|Q V	|	|	|	|
5+10	0.0979	0.30	|Q V	|	|	|	|
5+15	0.1000	0.30	|Q V	|	|	|	|
5+20	0.1024	0.35	|Q V	|	|	|	|
5+25	0.1047	0.35	|Q V	|	|	|	|
5+30	0.1071	0.35	|Q V	|	|	|	|
5+35	0.1098	0.40	|Q V	|	|	|	|
5+40	0.1126	0.40	|Q V	|	|	|	|
5+45	0.1153	0.40	|Q V	|	|	|	|

5+50	0.1180	0.40	Q V				
5+55	0.1207	0.40	Q V				
6+ 0	0.1234	0.40	Q V				
6+ 5	0.1265	0.44	Q V				
6+10	0.1296	0.44	Q V				
6+15	0.1326	0.44	Q V				
6+20	0.1357	0.44	Q V				
6+25	0.1387	0.44	Q V				
6+30	0.1418	0.44	Q V				
6+35	0.1452	0.49	Q V				
6+40	0.1486	0.49	Q V				
6+45	0.1520	0.49	Q V				
6+50	0.1554	0.49	Q V				
6+55	0.1588	0.49	Q V				
7+ 0	0.1622	0.49	Q V				
7+ 5	0.1656	0.49	Q V				
7+10	0.1690	0.49	Q V				
7+15	0.1724	0.49	Q V				
7+20	0.1761	0.54	Q V				
7+25	0.1799	0.54	Q V				
7+30	0.1836	0.54	Q V				
7+35	0.1877	0.59	Q V				
7+40	0.1918	0.59	Q V				
7+45	0.1959	0.59	Q V				
7+50	0.2003	0.64	Q V				
7+55	0.2047	0.64	Q V				
8+ 0	0.2091	0.64	Q V				
8+ 5	0.2142	0.74	Q V				
8+10	0.2193	0.74	Q V				
8+15	0.2244	0.74	Q V				
8+20	0.2295	0.74	Q V				
8+25	0.2346	0.74	Q V				
8+30	0.2397	0.74	Q V				
8+35	0.2452	0.79	Q V				
8+40	0.2506	0.79	Q V				
8+45	0.2561	0.79	Q V				
8+50	0.2618	0.84	Q V				
8+55	0.2676	0.84	Q V				
9+ 0	0.2734	0.84	Q V				
9+ 5	0.2799	0.94	Q V				
9+10	0.2863	0.94	Q V				
9+15	0.2928	0.94	Q V				
9+20	0.2996	0.99	Q V				
9+25	0.3064	0.99	Q V				
9+30	0.3132	0.99	Q V				
9+35	0.3203	1.04	Q V				
9+40	0.3275	1.04	Q V				
9+45	0.3346	1.04	Q V				
9+50	0.3421	1.09	Q V				
9+55	0.3496	1.09	Q V				
10+ 0	0.3571	1.09	Q V				
10+ 5	0.3622	0.74	Q V				
10+10	0.3673	0.74	Q V				
10+15	0.3724	0.74	Q V				
10+20	0.3775	0.74	Q V				
10+25	0.3826	0.74	Q V				
10+30	0.3877	0.74	Q V				
10+35	0.3945	0.99	Q V				
10+40	0.4013	0.99	Q V				
10+45	0.4081	0.99	Q V				


10+50 0.4149 0.99
10+55 0.4217 0.99
11+ 0 0.4285 0.99
11+ 5 0.4349 0.94
11+10 0.4414 0.94
11+15 0.4478 0.94
11+20 0.4543 0.94
11+25 0.4608 0.94
11+30 0.4672 0.94
11+35 0.4730 0.84
11+40 0.4788 0.84
11+45 0.4846 0.84
11+50 0.4907 0.89
11+55 0.4968 0.89
12+ 0 0.5029 0.89
12+ 5 0.5114 1.23
12+10 0.5199 1.23
12+15 0.5284 1.23
12+20 0.5373 1.28
12+25 0.5461 1.28
12+30 0.5550 1.28
12+35 0.5645 1.38
12+40 0.5740 1.38
12+45 0.5835 1.38
12+50 0.5934 1.43
12+55 0.6032 1.43
13+ 0 0.6131 1.43
13+ 5 0.6250 1.73
13+10 0.6370 1.73
13+15 0.6489 1.73
13+20 0.6608 1.73
13+25 0.6728 1.74
13+30 0.6848 1.74
13+35 0.6926 1.14
13+40 0.7004 1.14
13+45 0.7082 1.14
13+50 0.7160 1.14
13+55 0.7239 1.14
14+ 0 0.7317 1.14
14+ 5 0.7409 1.33
14+10 0.7501 1.33
14+15 0.7592 1.33
14+20 0.7681 1.28
14+25 0.7769 1.28
14+30 0.7858 1.28
14+35 0.7946 1.28
14+40 0.8034 1.28
14+45 0.8123 1.28
14+50 0.8208 1.23
14+55 0.8293 1.23
15+ 0 0.8378 1.23
15+ 5 0.8459 1.19
15+10 0.8541 1.19
15+15 0.8623 1.19
15+20 0.8701 1.14
15+25 0.8779 1.14
15+30 0.8857 1.14
15+35 0.8922 0.94
15+40 0.8987 0.94
15+45 0.9051 0.94

15+50	0.9116	0.94	|	Q	|	|	|	V |
15+55	0.9180	0.94	|	Q	|	|	|	V |
16+ 0	0.9245	0.94	|	Q	|	|	|	V |
16+ 5	0.9259	0.20	Q		|	|	|	V |
16+10	0.9272	0.20	Q		|	|	|	V |
16+15	0.9286	0.20	Q		|	|	|	V |
16+20	0.9299	0.20	Q		|	|	|	V |
16+25	0.9313	0.20	Q		|	|	|	V |
16+30	0.9327	0.20	Q		|	|	|	V |
16+35	0.9337	0.15	Q		|	|	|	V |
16+40	0.9347	0.15	Q		|	|	|	V |
16+45	0.9357	0.15	Q		|	|	|	V |
16+50	0.9367	0.15	Q		|	|	|	V |
16+55	0.9378	0.15	Q		|	|	|	V |
17+ 0	0.9388	0.15	Q		|	|	|	V |
17+ 5	0.9405	0.25	Q		|	|	|	V |
17+10	0.9422	0.25	Q		|	|	|	V |
17+15	0.9439	0.25	Q		|	|	|	V |
17+20	0.9456	0.25	Q		|	|	|	V |
17+25	0.9473	0.25	Q		|	|	|	V |
17+30	0.9490	0.25	Q		|	|	|	V |
17+35	0.9507	0.25	Q		|	|	|	V |
17+40	0.9524	0.25	Q		|	|	|	V |
17+45	0.9541	0.25	Q		|	|	|	V |
17+50	0.9554	0.20	Q		|	|	|	V |
17+55	0.9568	0.20	Q		|	|	|	V |
18+ 0	0.9582	0.20	Q		|	|	|	V |
18+ 5	0.9595	0.20	Q		|	|	|	V |
18+10	0.9609	0.20	Q		|	|	|	V |
18+15	0.9622	0.20	Q		|	|	|	V |
18+20	0.9636	0.20	Q		|	|	|	V |
18+25	0.9650	0.20	Q		|	|	|	V |
18+30	0.9663	0.20	Q		|	|	|	V |
18+35	0.9673	0.15	Q		|	|	|	V |
18+40	0.9684	0.15	Q		|	|	|	V |
18+45	0.9694	0.15	Q		|	|	|	V |
18+50	0.9701	0.10	Q		|	|	|	V |
18+55	0.9707	0.10	Q		|	|	|	V |
19+ 0	0.9714	0.10	Q		|	|	|	V |
19+ 5	0.9724	0.15	Q		|	|	|	V |
19+10	0.9735	0.15	Q		|	|	|	V |
19+15	0.9745	0.15	Q		|	|	|	V |
19+20	0.9758	0.20	Q		|	|	|	V |
19+25	0.9772	0.20	Q		|	|	|	V |
19+30	0.9786	0.20	Q		|	|	|	V |
19+35	0.9796	0.15	Q		|	|	|	V |
19+40	0.9806	0.15	Q		|	|	|	V |
19+45	0.9816	0.15	Q		|	|	|	V |
19+50	0.9823	0.10	Q		|	|	|	V |
19+55	0.9830	0.10	Q		|	|	|	V |
20+ 0	0.9837	0.10	Q		|	|	|	V |
20+ 5	0.9847	0.15	Q		|	|	|	V |
20+10	0.9857	0.15	Q		|	|	|	V |
20+15	0.9867	0.15	Q		|	|	|	V |
20+20	0.9877	0.15	Q		|	|	|	V |
20+25	0.9888	0.15	Q		|	|	|	V |
20+30	0.9898	0.15	Q		|	|	|	V |
20+35	0.9908	0.15	Q		|	|	|	V |
20+40	0.9918	0.15	Q		|	|	|	V |
20+45	0.9928	0.15	Q		|	|	|	V |

20+50	0.9935	0.10	Q	|	|	|	V |
20+55	0.9942	0.10	Q	|	|	|	V |
21+ 0	0.9949	0.10	Q	|	|	|	V |
21+ 5	0.9959	0.15	Q	|	|	|	V |
21+10	0.9969	0.15	Q	|	|	|	V|
21+15	0.9980	0.15	Q	|	|	|	V|
21+20	0.9986	0.10	Q	|	|	|	V|
21+25	0.9993	0.10	Q	|	|	|	V|
21+30	1.0000	0.10	Q	|	|	|	V|
21+35	1.0010	0.15	Q	|	|	|	V|
21+40	1.0020	0.15	Q	|	|	|	V|
21+45	1.0031	0.15	Q	|	|	|	V|
21+50	1.0037	0.10	Q	|	|	|	V|
21+55	1.0044	0.10	Q	|	|	|	V|
22+ 0	1.0051	0.10	Q	|	|	|	V|
22+ 5	1.0061	0.15	Q	|	|	|	V|
22+10	1.0071	0.15	Q	|	|	|	V|
22+15	1.0082	0.15	Q	|	|	|	V|
22+20	1.0088	0.10	Q	|	|	|	V|
22+25	1.0095	0.10	Q	|	|	|	V|
22+30	1.0102	0.10	Q	|	|	|	V|
22+35	1.0109	0.10	Q	|	|	|	V|
22+40	1.0116	0.10	Q	|	|	|	V|
22+45	1.0122	0.10	Q	|	|	|	V|
22+50	1.0129	0.10	Q	|	|	|	V|
22+55	1.0136	0.10	Q	|	|	|	V|
23+ 0	1.0143	0.10	Q	|	|	|	V|
23+ 5	1.0150	0.10	Q	|	|	|	V|
23+10	1.0156	0.10	Q	|	|	|	V|
23+15	1.0163	0.10	Q	|	|	|	V|
23+20	1.0170	0.10	Q	|	|	|	V|
23+25	1.0177	0.10	Q	|	|	|	V|
23+30	1.0184	0.10	Q	|	|	|	V|
23+35	1.0190	0.10	Q	|	|	|	V|
23+40	1.0197	0.10	Q	|	|	|	V|
23+45	1.0204	0.10	Q	|	|	|	V|
23+50	1.0211	0.10	Q	|	|	|	V|
23+55	1.0218	0.10	Q	|	|	|	V|
24+ 0	1.0224	0.10	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV1100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
100-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.50	2.88

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.20	6.92

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.200(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5300

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
		Sum = 100.000	Sum= 5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.40	0.490	0.062	(0.088)	0.428
2	0.17	4.70	0.677	0.062	(0.122)	0.615
3	0.25	4.70	0.677	0.062	(0.122)	0.615
4	0.33	5.10	0.734	0.062	(0.132)	0.672
5	0.42	5.80	0.835	0.062	(0.150)	0.773
6	0.50	5.90	0.850	0.062	(0.153)	0.788
7	0.58	7.10	1.022	0.062	(0.184)	0.960
8	0.67	8.70	1.253	0.062	(0.225)	1.191
9	0.75	13.20	1.901	0.062	(0.342)	1.839
10	0.83	29.70	4.277	0.062	(0.770)	4.215
11	0.92	7.70	1.109	0.062	(0.200)	1.047
12	1.00	4.00	0.576	0.062	(0.104)	0.514
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	13.7

Flood volume = Effective rainfall 1.14(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.5(Ac.Ft)

```
    Total soil loss =      0.06(In)
    Total soil loss =     0.030(Ac.Ft)
    Total rainfall =      1.20(In)
    Flood volume =       23833.1 Cubic Feet
    Total soil loss =        1299.7 Cubic Feet
    ---------------------------------------------------------------------
     Peak flow rate of this hydrograph =     24.520(CFS)
    ---------------------------------------------------------------------
    +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        1 - H O U R    S T O R M
                   R u n o f f      H y d r o g r a p h
    ---------------------------------------------------------------------
                Hydrograph in   5   Minute intervals ((CFS))

    ---------------------------------------------------------------------
  Time(h+m) Volume Ac.Ft   Q(CFS)  0        7.5      15.0      22.5      30.0
  ------------------------------------------------------------------------
    0+ 5       0.0171      2.49  |V Q      |          |          |          |
    0+10       0.0418      3.58  |  VQ     |          |          |          |
    0+15       0.0664      3.58  |   Q     |          |          |          |
    0+20       0.0933      3.91  |    QV   |          |          |          |
    0+25       0.1243      4.50  |    Q   V|          |          |          |
    0+30       0.1559      4.58  |     Q   |V         |          |          |
    0+35       0.1943      5.59  |      Q  |   V      |          |          |
    0+40       0.2421      6.93  |        Q|      V   |          |          |
    0+45       0.3157     10.70  |         |   Q      |  V       |          |
    0+50       0.4846     24.52  |         |          |          | Q  V     |
    0+55       0.5265      6.09  |       Q |          |          |       V  |
    1+ 0       0.5471      2.99  |  Q      |          |          |        V |
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV3100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
100-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	0.80	4.62

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.80	10.39

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.800(In)

Point rain (area averaged) = 1.800(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	1465.592	100.000	5.815
		Sum = 100.000	Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.281	(0.062)		0.051	0.230
2	0.17	1.30	0.281	(0.062)		0.051	0.230
3	0.25	1.10	0.238	(0.062)		0.043	0.195
4	0.33	1.50	0.324	(0.062)		0.058	0.266
5	0.42	1.50	0.324	(0.062)		0.058	0.266
6	0.50	1.80	0.389	0.062	(	0.070)	0.327
7	0.58	1.50	0.324	(0.062)		0.058	0.266
8	0.67	1.80	0.389	0.062	(	0.070)	0.327
9	0.75	1.80	0.389	0.062	(	0.070)	0.327
10	0.83	1.50	0.324	(0.062)		0.058	0.266
11	0.92	1.60	0.346	0.062	(	0.062)	0.284
12	1.00	1.80	0.389	0.062	(	0.070)	0.327
13	1.08	2.20	0.475	0.062	(	0.086)	0.413
14	1.17	2.20	0.475	0.062	(	0.086)	0.413
15	1.25	2.20	0.475	0.062	(	0.086)	0.413
16	1.33	2.00	0.432	0.062	(	0.078)	0.370
17	1.42	2.60	0.562	0.062	(	0.101)	0.500
18	1.50	2.70	0.583	0.062	(	0.105)	0.521

19	1.58	2.40	0.518	0.062	(0.093)	0.456
20	1.67	2.70	0.583	0.062	(0.105)	0.521
21	1.75	3.30	0.713	0.062	(0.128)	0.651
22	1.83	3.10	0.670	0.062	(0.121)	0.608
23	1.92	2.90	0.626	0.062	(0.113)	0.564
24	2.00	3.00	0.648	0.062	(0.117)	0.586
25	2.08	3.10	0.670	0.062	(0.121)	0.608
26	2.17	4.20	0.907	0.062	(0.163)	0.845
27	2.25	5.00	1.080	0.062	(0.194)	1.018
28	2.33	3.50	0.756	0.062	(0.136)	0.694
29	2.42	6.80	1.469	0.062	(0.264)	1.407
30	2.50	7.30	1.577	0.062	(0.284)	1.515
31	2.58	8.20	1.771	0.062	(0.319)	1.709
32	2.67	5.90	1.274	0.062	(0.229)	1.212
33	2.75	2.00	0.432	0.062	(0.078)	0.370
34	2.83	1.80	0.389	0.062	(0.070)	0.327
35	2.92	1.80	0.389	0.062	(0.070)	0.327
36	3.00	0.60	0.130	(0.062)	0.023	0.106

(Loss Rate Not Used)

Sum = 100.0 Sum = 19.5

Flood volume = Effective rainfall 1.62(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 0.8(Ac.Ft)
Total soil loss = 0.18(In)
Total soil loss = 0.086(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 33968.6 Cubic Feet
Total soil loss = 3731.7 Cubic Feet

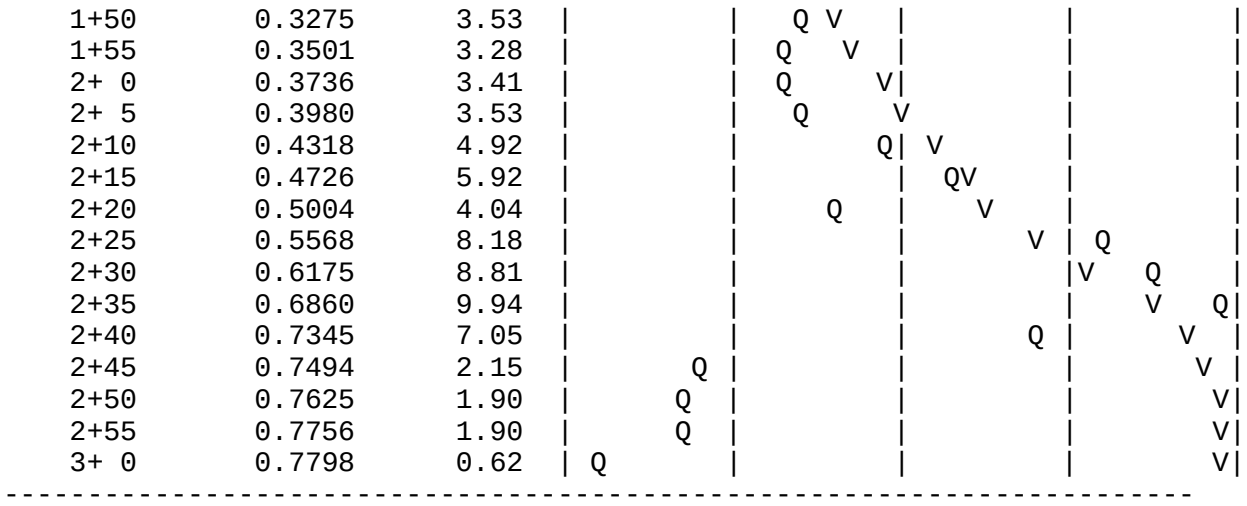
Peak flow rate of this hydrograph = 9.944(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 2.5 5.0 7.5 10.0
0+ 5	0.0092	1.34	V Q | | | |
0+10	0.0185	1.34	V Q | | | |
0+15	0.0263	1.13	|V Q | | | |
0+20	0.0369	1.55	|V Q | | | |
0+25	0.0475	1.55	| V Q | | | |
0+30	0.0606	1.90	| V Q | | | |
0+35	0.0713	1.55	| V Q | | | |
0+40	0.0844	1.90	| V Q | | | |
0+45	0.0975	1.90	| V Q | | | |
0+50	0.1081	1.55	| VQ | | | |
0+55	0.1195	1.65	| Q | | | |
1+ 0	0.1326	1.90	| VQ | | | |
1+ 5	0.1491	2.40	| V Q| | | |
1+10	0.1657	2.40	| VQ| | | |
1+15	0.1822	2.40	| Q| | | |
1+20	0.1971	2.15	| Q V | | |
1+25	0.2171	2.91	| |Q | | |
1+30	0.2380	3.03	| | Q | | |
1+35	0.2562	2.65	| Q V | | |
1+40	0.2771	3.03	| | Q V | | |
1+45	0.3032	3.79	| | Q | | |


1+50 0.3275 3.53
1+55 0.3501 3.28
2+ 0 0.3736 3.41
2+ 5 0.3980 3.53
2+10 0.4318 4.92
2+15 0.4726 5.92
2+20 0.5004 4.04
2+25 0.5568 8.18
2+30 0.6175 8.81
2+35 0.6860 9.94
2+40 0.7345 7.05
2+45 0.7494 2.15
2+50 0.7625 1.90
2+55 0.7756 1.90
3+ 0 0.7798 0.62

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV6100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
100-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.00	5.77

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	2.50	14.42

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.000(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	100.000	5.815
	Sum =	100.000 Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.062)	0.027	0.123
2	0.17	0.60	0.180	(0.062)	0.032	0.148
3	0.25	0.60	0.180	(0.062)	0.032	0.148
4	0.33	0.60	0.180	(0.062)	0.032	0.148
5	0.42	0.60	0.180	(0.062)	0.032	0.148
6	0.50	0.70	0.210	(0.062)	0.038	0.172
7	0.58	0.70	0.210	(0.062)	0.038	0.172
8	0.67	0.70	0.210	(0.062)	0.038	0.172
9	0.75	0.70	0.210	(0.062)	0.038	0.172
10	0.83	0.70	0.210	(0.062)	0.038	0.172
11	0.92	0.70	0.210	(0.062)	0.038	0.172
12	1.00	0.80	0.240	(0.062)	0.043	0.197
13	1.08	0.80	0.240	(0.062)	0.043	0.197
14	1.17	0.80	0.240	(0.062)	0.043	0.197
15	1.25	0.80	0.240	(0.062)	0.043	0.197
16	1.33	0.80	0.240	(0.062)	0.043	0.197
17	1.42	0.80	0.240	(0.062)	0.043	0.197
18	1.50	0.80	0.240	(0.062)	0.043	0.197

19	1.58	0.80	0.240	(0.062)	0.043	0.197
20	1.67	0.80	0.240	(0.062)	0.043	0.197
21	1.75	0.80	0.240	(0.062)	0.043	0.197
22	1.83	0.80	0.240	(0.062)	0.043	0.197
23	1.92	0.80	0.240	(0.062)	0.043	0.197
24	2.00	0.90	0.270	(0.062)	0.049	0.221
25	2.08	0.80	0.240	(0.062)	0.043	0.197
26	2.17	0.90	0.270	(0.062)	0.049	0.221
27	2.25	0.90	0.270	(0.062)	0.049	0.221
28	2.33	0.90	0.270	(0.062)	0.049	0.221
29	2.42	0.90	0.270	(0.062)	0.049	0.221
30	2.50	0.90	0.270	(0.062)	0.049	0.221
31	2.58	0.90	0.270	(0.062)	0.049	0.221
32	2.67	0.90	0.270	(0.062)	0.049	0.221
33	2.75	1.00	0.300	(0.062)	0.054	0.246
34	2.83	1.00	0.300	(0.062)	0.054	0.246
35	2.92	1.00	0.300	(0.062)	0.054	0.246
36	3.00	1.00	0.300	(0.062)	0.054	0.246
37	3.08	1.00	0.300	(0.062)	0.054	0.246
38	3.17	1.10	0.330	(0.062)	0.059	0.271
39	3.25	1.10	0.330	(0.062)	0.059	0.271
40	3.33	1.10	0.330	(0.062)	0.059	0.271
41	3.42	1.20	0.360	0.062	(0.065)	0.298
42	3.50	1.30	0.390	0.062	(0.070)	0.328
43	3.58	1.40	0.420	0.062	(0.076)	0.358
44	3.67	1.40	0.420	0.062	(0.076)	0.358
45	3.75	1.50	0.450	0.062	(0.081)	0.388
46	3.83	1.50	0.450	0.062	(0.081)	0.388
47	3.92	1.60	0.480	0.062	(0.086)	0.418
48	4.00	1.60	0.480	0.062	(0.086)	0.418
49	4.08	1.70	0.510	0.062	(0.092)	0.448
50	4.17	1.80	0.540	0.062	(0.097)	0.478
51	4.25	1.90	0.570	0.062	(0.103)	0.508
52	4.33	2.00	0.600	0.062	(0.108)	0.538
53	4.42	2.10	0.630	0.062	(0.113)	0.568
54	4.50	2.10	0.630	0.062	(0.113)	0.568
55	4.58	2.20	0.660	0.062	(0.119)	0.598
56	4.67	2.30	0.690	0.062	(0.124)	0.628
57	4.75	2.40	0.720	0.062	(0.130)	0.658
58	4.83	2.40	0.720	0.062	(0.130)	0.658
59	4.92	2.50	0.750	0.062	(0.135)	0.688
60	5.00	2.60	0.780	0.062	(0.140)	0.718
61	5.08	3.10	0.930	0.062	(0.167)	0.868
62	5.17	3.60	1.080	0.062	(0.194)	1.018
63	5.25	3.90	1.170	0.062	(0.211)	1.108
64	5.33	4.20	1.260	0.062	(0.227)	1.198
65	5.42	4.70	1.410	0.062	(0.254)	1.348
66	5.50	5.60	1.680	0.062	(0.302)	1.618
67	5.58	1.90	0.570	0.062	(0.103)	0.508
68	5.67	0.90	0.270	(0.062)	0.049	0.221
69	5.75	0.60	0.180	(0.062)	0.032	0.148
70	5.83	0.50	0.150	(0.062)	0.027	0.123
71	5.92	0.30	0.090	(0.062)	0.016	0.074
72	6.00	0.20	0.060	(0.062)	0.011	0.049

(Loss Rate Not Used)

Sum = 100.0 Sum = 26.4

Flood volume = Effective rainfall 2.20(In)

times area 5.8(Ac.)/[(In)/(Ft.)] = 1.1(Ac.Ft)

Total soil loss = 0.30(In)

Total soil loss = 0.144(Ac.Ft)

Total rainfall = 2.50(In)
Flood volume = 46091.4 Cubic Feet
Total soil loss = 6270.3 Cubic Feet

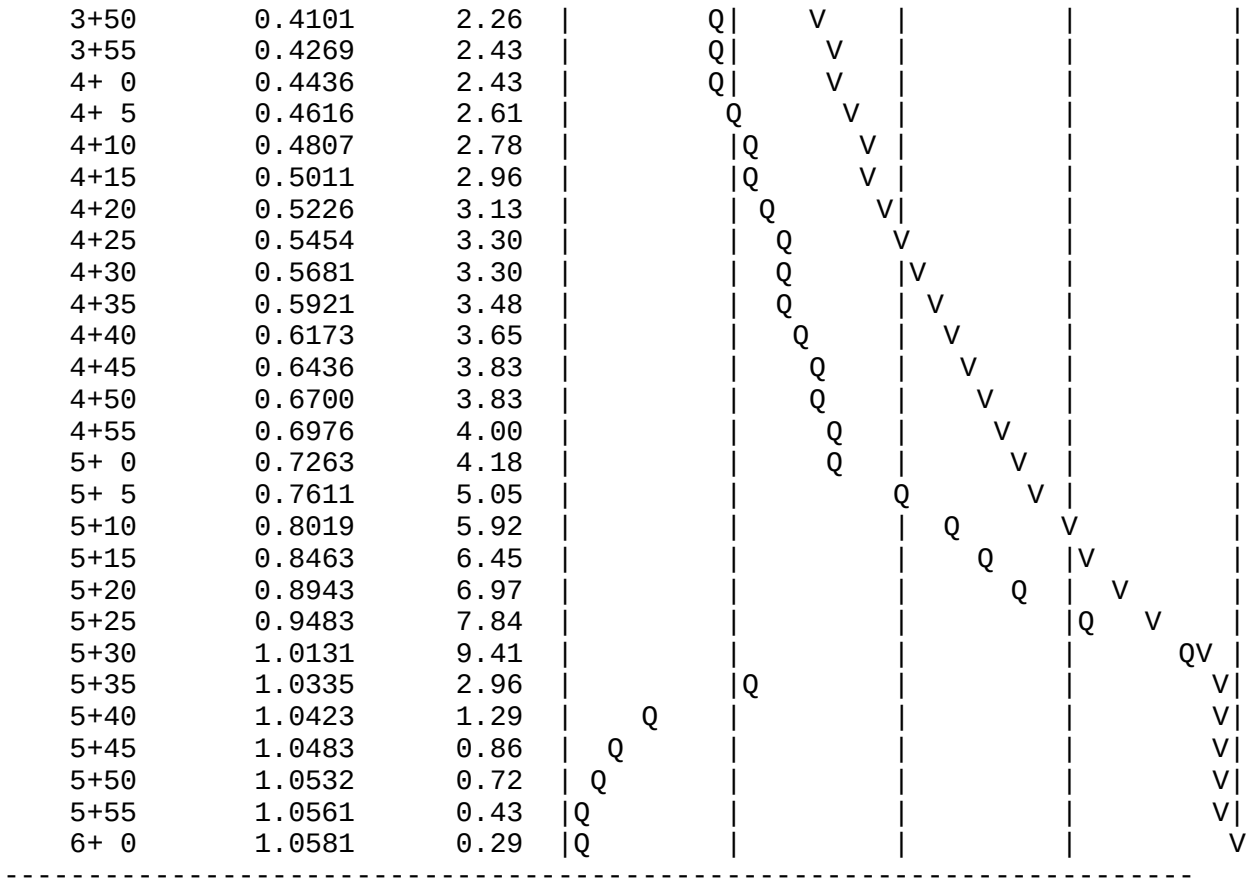
Peak flow rate of this hydrograph = 9.413(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0049	0.72	V Q				
0+10	0.0108	0.86	V Q				
0+15	0.0168	0.86	V Q				
0+20	0.0227	0.86	V Q				
0+25	0.0286	0.86	|V Q				
0+30	0.0355	1.00	|V Q				
0+35	0.0424	1.00	|V Q				
0+40	0.0493	1.00	|V Q				
0+45	0.0562	1.00	| V Q				
0+50	0.0631	1.00	| V Q				
0+55	0.0700	1.00	| V Q				
1+ 0	0.0779	1.14	| V Q				
1+ 5	0.0858	1.14	| VQ				
1+10	0.0936	1.14	| VQ				
1+15	0.1015	1.14	| VQ				
1+20	0.1094	1.14	| Q				
1+25	0.1173	1.14	| Q				
1+30	0.1252	1.14	| Q				
1+35	0.1331	1.14	| QV				
1+40	0.1410	1.14	| QV				
1+45	0.1488	1.14	| QV				
1+50	0.1567	1.14	| QV				
1+55	0.1646	1.14	| Q V				
2+ 0	0.1735	1.29	| QV				
2+ 5	0.1814	1.14	| Q V				
2+10	0.1902	1.29	| Q V				
2+15	0.1991	1.29	| Q V				
2+20	0.2080	1.29	| Q V				
2+25	0.2169	1.29	| Q V				
2+30	0.2257	1.29	| Q V				
2+35	0.2346	1.29	| Q V				
2+40	0.2435	1.29	| Q V|				
2+45	0.2533	1.43	| Q V|				
2+50	0.2632	1.43	| Q V|				
2+55	0.2730	1.43	| Q V				
3+ 0	0.2829	1.43	| Q V				
3+ 5	0.2927	1.43	| Q |V				
3+10	0.3036	1.57	| Q |V				
3+15	0.3144	1.57	| Q |V				
3+20	0.3253	1.57	| Q | V				
3+25	0.3372	1.73	| Q | V				
3+30	0.3504	1.91	| Q | V				
3+35	0.3647	2.08	| Q | V				
3+40	0.3790	2.08	| Q | V				
3+45	0.3946	2.26	| Q| V				



3+50	0.4101	2.26	
3+55	0.4269	2.43	
4+ 0	0.4436	2.43	
4+ 5	0.4616	2.61	
4+10	0.4807	2.78	
4+15	0.5011	2.96	
4+20	0.5226	3.13	
4+25	0.5454	3.30	
4+30	0.5681	3.30	
4+35	0.5921	3.48	
4+40	0.6173	3.65	
4+45	0.6436	3.83	
4+50	0.6700	3.83	
4+55	0.6976	4.00	
5+ 0	0.7263	4.18	
5+ 5	0.7611	5.05	
5+10	0.8019	5.92	
5+15	0.8463	6.45	
5+20	0.8943	6.97	
5+25	0.9483	7.84	
5+30	1.0131	9.41	
5+35	1.0335	2.96	
5+40	1.0423	1.29	
5+45	1.0483	0.86	
5+50	1.0532	0.72	
5+55	1.0561	0.43	
6+ 0	1.0581	0.29	

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 05/31/24 File: MENDEV24100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6094

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

DEVELOPED CONDITION
DA A
100-YR

Drainage Area = 5.77(Ac.) = 0.009 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 5.77(Ac.) = 0.009 Sq. Mi.
Length along longest watercourse = 275.00(Ft.)
Length along longest watercourse measured to centroid = 25.00(Ft.)
Length along longest watercourse = 0.052 Mi.
Length along longest watercourse measured to centroid = 0.005 Mi.
Difference in elevation = 9.60(Ft.)
Slope along watercourse = 184.3200 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.006 Hr.
Lag time = 0.34 Min.
25% of lag time = 0.09 Min.
40% of lag time = 0.14 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	1.60	9.23

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
5.77	4.00	23.08

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.600(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 4.000(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 4.000(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
5.770	73.00	0.900

Total Area Entered = 5.77(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
73.0	73.0	0.327	0.900	0.062	1.000	0.062
					Sum (F) =	0.062

Area averaged mean soil loss (F) (In/Hr) = 0.062
Minimum soil loss rate ((In/Hr)) = 0.031
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	1465.592	100.000	5.815
		Sum = 100.000	Sum=	5.815

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.032	(0.110)	0.006	0.026
2	0.17	0.07	0.032	(0.110)	0.006	0.026
3	0.25	0.07	0.032	(0.109)	0.006	0.026
4	0.33	0.10	0.048	(0.109)	0.009	0.039
5	0.42	0.10	0.048	(0.108)	0.009	0.039
6	0.50	0.10	0.048	(0.108)	0.009	0.039
7	0.58	0.10	0.048	(0.107)	0.009	0.039
8	0.67	0.10	0.048	(0.107)	0.009	0.039
9	0.75	0.10	0.048	(0.107)	0.009	0.039
10	0.83	0.13	0.064	(0.106)	0.012	0.052
11	0.92	0.13	0.064	(0.106)	0.012	0.052
12	1.00	0.13	0.064	(0.105)	0.012	0.052
13	1.08	0.10	0.048	(0.105)	0.009	0.039
14	1.17	0.10	0.048	(0.105)	0.009	0.039
15	1.25	0.10	0.048	(0.104)	0.009	0.039
16	1.33	0.10	0.048	(0.104)	0.009	0.039
17	1.42	0.10	0.048	(0.103)	0.009	0.039
18	1.50	0.10	0.048	(0.103)	0.009	0.039

19	1.58	0.10	0.048	(0.102)	0.009	0.039
20	1.67	0.10	0.048	(0.102)	0.009	0.039
21	1.75	0.10	0.048	(0.102)	0.009	0.039
22	1.83	0.13	0.064	(0.101)	0.012	0.052
23	1.92	0.13	0.064	(0.101)	0.012	0.052
24	2.00	0.13	0.064	(0.100)	0.012	0.052
25	2.08	0.13	0.064	(0.100)	0.012	0.052
26	2.17	0.13	0.064	(0.100)	0.012	0.052
27	2.25	0.13	0.064	(0.099)	0.012	0.052
28	2.33	0.13	0.064	(0.099)	0.012	0.052
29	2.42	0.13	0.064	(0.098)	0.012	0.052
30	2.50	0.13	0.064	(0.098)	0.012	0.052
31	2.58	0.17	0.080	(0.098)	0.014	0.066
32	2.67	0.17	0.080	(0.097)	0.014	0.066
33	2.75	0.17	0.080	(0.097)	0.014	0.066
34	2.83	0.17	0.080	(0.096)	0.014	0.066
35	2.92	0.17	0.080	(0.096)	0.014	0.066
36	3.00	0.17	0.080	(0.096)	0.014	0.066
37	3.08	0.17	0.080	(0.095)	0.014	0.066
38	3.17	0.17	0.080	(0.095)	0.014	0.066
39	3.25	0.17	0.080	(0.094)	0.014	0.066
40	3.33	0.17	0.080	(0.094)	0.014	0.066
41	3.42	0.17	0.080	(0.094)	0.014	0.066
42	3.50	0.17	0.080	(0.093)	0.014	0.066
43	3.58	0.17	0.080	(0.093)	0.014	0.066
44	3.67	0.17	0.080	(0.092)	0.014	0.066
45	3.75	0.17	0.080	(0.092)	0.014	0.066
46	3.83	0.20	0.096	(0.092)	0.017	0.079
47	3.92	0.20	0.096	(0.091)	0.017	0.079
48	4.00	0.20	0.096	(0.091)	0.017	0.079
49	4.08	0.20	0.096	(0.091)	0.017	0.079
50	4.17	0.20	0.096	(0.090)	0.017	0.079
51	4.25	0.20	0.096	(0.090)	0.017	0.079
52	4.33	0.23	0.112	(0.089)	0.020	0.092
53	4.42	0.23	0.112	(0.089)	0.020	0.092
54	4.50	0.23	0.112	(0.089)	0.020	0.092
55	4.58	0.23	0.112	(0.088)	0.020	0.092
56	4.67	0.23	0.112	(0.088)	0.020	0.092
57	4.75	0.23	0.112	(0.087)	0.020	0.092
58	4.83	0.27	0.128	(0.087)	0.023	0.105
59	4.92	0.27	0.128	(0.087)	0.023	0.105
60	5.00	0.27	0.128	(0.086)	0.023	0.105
61	5.08	0.20	0.096	(0.086)	0.017	0.079
62	5.17	0.20	0.096	(0.086)	0.017	0.079
63	5.25	0.20	0.096	(0.085)	0.017	0.079
64	5.33	0.23	0.112	(0.085)	0.020	0.092
65	5.42	0.23	0.112	(0.084)	0.020	0.092
66	5.50	0.23	0.112	(0.084)	0.020	0.092
67	5.58	0.27	0.128	(0.084)	0.023	0.105
68	5.67	0.27	0.128	(0.083)	0.023	0.105
69	5.75	0.27	0.128	(0.083)	0.023	0.105
70	5.83	0.27	0.128	(0.083)	0.023	0.105
71	5.92	0.27	0.128	(0.082)	0.023	0.105
72	6.00	0.27	0.128	(0.082)	0.023	0.105
73	6.08	0.30	0.144	(0.082)	0.026	0.118
74	6.17	0.30	0.144	(0.081)	0.026	0.118
75	6.25	0.30	0.144	(0.081)	0.026	0.118
76	6.33	0.30	0.144	(0.080)	0.026	0.118
77	6.42	0.30	0.144	(0.080)	0.026	0.118
78	6.50	0.30	0.144	(0.080)	0.026	0.118

79	6.58	0.33	0.160	(0.079)	0.029	0.131
80	6.67	0.33	0.160	(0.079)	0.029	0.131
81	6.75	0.33	0.160	(0.079)	0.029	0.131
82	6.83	0.33	0.160	(0.078)	0.029	0.131
83	6.92	0.33	0.160	(0.078)	0.029	0.131
84	7.00	0.33	0.160	(0.078)	0.029	0.131
85	7.08	0.33	0.160	(0.077)	0.029	0.131
86	7.17	0.33	0.160	(0.077)	0.029	0.131
87	7.25	0.33	0.160	(0.077)	0.029	0.131
88	7.33	0.37	0.176	(0.076)	0.032	0.144
89	7.42	0.37	0.176	(0.076)	0.032	0.144
90	7.50	0.37	0.176	(0.076)	0.032	0.144
91	7.58	0.40	0.192	(0.075)	0.035	0.157
92	7.67	0.40	0.192	(0.075)	0.035	0.157
93	7.75	0.40	0.192	(0.074)	0.035	0.157
94	7.83	0.43	0.208	(0.074)	0.037	0.171
95	7.92	0.43	0.208	(0.074)	0.037	0.171
96	8.00	0.43	0.208	(0.073)	0.037	0.171
97	8.08	0.50	0.240	(0.073)	0.043	0.197
98	8.17	0.50	0.240	(0.073)	0.043	0.197
99	8.25	0.50	0.240	(0.072)	0.043	0.197
100	8.33	0.50	0.240	(0.072)	0.043	0.197
101	8.42	0.50	0.240	(0.072)	0.043	0.197
102	8.50	0.50	0.240	(0.071)	0.043	0.197
103	8.58	0.53	0.256	(0.071)	0.046	0.210
104	8.67	0.53	0.256	(0.071)	0.046	0.210
105	8.75	0.53	0.256	(0.070)	0.046	0.210
106	8.83	0.57	0.272	(0.070)	0.049	0.223
107	8.92	0.57	0.272	(0.070)	0.049	0.223
108	9.00	0.57	0.272	(0.069)	0.049	0.223
109	9.08	0.63	0.304	(0.069)	0.055	0.249
110	9.17	0.63	0.304	(0.069)	0.055	0.249
111	9.25	0.63	0.304	(0.068)	0.055	0.249
112	9.33	0.67	0.320	(0.068)	0.058	0.262
113	9.42	0.67	0.320	(0.068)	0.058	0.262
114	9.50	0.67	0.320	(0.067)	0.058	0.262
115	9.58	0.70	0.336	(0.067)	0.060	0.276
116	9.67	0.70	0.336	(0.067)	0.060	0.276
117	9.75	0.70	0.336	(0.066)	0.060	0.276
118	9.83	0.73	0.352	(0.066)	0.063	0.289
119	9.92	0.73	0.352	(0.066)	0.063	0.289
120	10.00	0.73	0.352	(0.066)	0.063	0.289
121	10.08	0.50	0.240	(0.065)	0.043	0.197
122	10.17	0.50	0.240	(0.065)	0.043	0.197
123	10.25	0.50	0.240	(0.065)	0.043	0.197
124	10.33	0.50	0.240	(0.064)	0.043	0.197
125	10.42	0.50	0.240	(0.064)	0.043	0.197
126	10.50	0.50	0.240	(0.064)	0.043	0.197
127	10.58	0.67	0.320	(0.063)	0.058	0.262
128	10.67	0.67	0.320	(0.063)	0.058	0.262
129	10.75	0.67	0.320	(0.063)	0.058	0.262
130	10.83	0.67	0.320	(0.062)	0.058	0.262
131	10.92	0.67	0.320	(0.062)	0.058	0.262
132	11.00	0.67	0.320	(0.062)	0.058	0.262
133	11.08	0.63	0.304	(0.061)	0.055	0.249
134	11.17	0.63	0.304	(0.061)	0.055	0.249
135	11.25	0.63	0.304	(0.061)	0.055	0.249
136	11.33	0.63	0.304	(0.061)	0.055	0.249
137	11.42	0.63	0.304	(0.060)	0.055	0.249
138	11.50	0.63	0.304	(0.060)	0.055	0.249

139	11.58	0.57	0.272	(0.060)	0.049	0.223
140	11.67	0.57	0.272	(0.059)	0.049	0.223
141	11.75	0.57	0.272	(0.059)	0.049	0.223
142	11.83	0.60	0.288	(0.059)	0.052	0.236
143	11.92	0.60	0.288	(0.059)	0.052	0.236
144	12.00	0.60	0.288	(0.058)	0.052	0.236
145	12.08	0.83	0.400	0.058	(0.072)	0.342
146	12.17	0.83	0.400	0.058	(0.072)	0.342
147	12.25	0.83	0.400	0.057	(0.072)	0.343
148	12.33	0.87	0.416	0.057	(0.075)	0.359
149	12.42	0.87	0.416	0.057	(0.075)	0.359
150	12.50	0.87	0.416	0.056	(0.075)	0.360
151	12.58	0.93	0.448	0.056	(0.081)	0.392
152	12.67	0.93	0.448	0.056	(0.081)	0.392
153	12.75	0.93	0.448	0.056	(0.081)	0.392
154	12.83	0.97	0.464	0.055	(0.084)	0.409
155	12.92	0.97	0.464	0.055	(0.084)	0.409
156	13.00	0.97	0.464	0.055	(0.084)	0.409
157	13.08	1.13	0.544	0.055	(0.098)	0.489
158	13.17	1.13	0.544	0.054	(0.098)	0.490
159	13.25	1.13	0.544	0.054	(0.098)	0.490
160	13.33	1.13	0.544	0.054	(0.098)	0.490
161	13.42	1.13	0.544	0.053	(0.098)	0.491
162	13.50	1.13	0.544	0.053	(0.098)	0.491
163	13.58	0.77	0.368	0.053	(0.066)	0.315
164	13.67	0.77	0.368	0.053	(0.066)	0.315
165	13.75	0.77	0.368	0.052	(0.066)	0.316
166	13.83	0.77	0.368	0.052	(0.066)	0.316
167	13.92	0.77	0.368	0.052	(0.066)	0.316
168	14.00	0.77	0.368	0.052	(0.066)	0.316
169	14.08	0.90	0.432	0.051	(0.078)	0.381
170	14.17	0.90	0.432	0.051	(0.078)	0.381
171	14.25	0.90	0.432	0.051	(0.078)	0.381
172	14.33	0.87	0.416	0.050	(0.075)	0.365
173	14.42	0.87	0.416	0.050	(0.075)	0.366
174	14.50	0.87	0.416	0.050	(0.075)	0.366
175	14.58	0.87	0.416	0.050	(0.075)	0.366
176	14.67	0.87	0.416	0.049	(0.075)	0.367
177	14.75	0.87	0.416	0.049	(0.075)	0.367
178	14.83	0.83	0.400	0.049	(0.072)	0.351
179	14.92	0.83	0.400	0.049	(0.072)	0.351
180	15.00	0.83	0.400	0.048	(0.072)	0.352
181	15.08	0.80	0.384	0.048	(0.069)	0.336
182	15.17	0.80	0.384	0.048	(0.069)	0.336
183	15.25	0.80	0.384	0.048	(0.069)	0.336
184	15.33	0.77	0.368	0.047	(0.066)	0.321
185	15.42	0.77	0.368	0.047	(0.066)	0.321
186	15.50	0.77	0.368	0.047	(0.066)	0.321
187	15.58	0.63	0.304	0.047	(0.055)	0.257
188	15.67	0.63	0.304	0.047	(0.055)	0.257
189	15.75	0.63	0.304	0.046	(0.055)	0.258
190	15.83	0.63	0.304	0.046	(0.055)	0.258
191	15.92	0.63	0.304	0.046	(0.055)	0.258
192	16.00	0.63	0.304	0.046	(0.055)	0.258
193	16.08	0.13	0.064	(0.045)	0.012	0.052
194	16.17	0.13	0.064	(0.045)	0.012	0.052
195	16.25	0.13	0.064	(0.045)	0.012	0.052
196	16.33	0.13	0.064	(0.045)	0.012	0.052
197	16.42	0.13	0.064	(0.044)	0.012	0.052
198	16.50	0.13	0.064	(0.044)	0.012	0.052

199	16.58	0.10	0.048	(0.044)	0.009	0.039
200	16.67	0.10	0.048	(0.044)	0.009	0.039
201	16.75	0.10	0.048	(0.044)	0.009	0.039
202	16.83	0.10	0.048	(0.043)	0.009	0.039
203	16.92	0.10	0.048	(0.043)	0.009	0.039
204	17.00	0.10	0.048	(0.043)	0.009	0.039
205	17.08	0.17	0.080	(0.043)	0.014	0.066
206	17.17	0.17	0.080	(0.042)	0.014	0.066
207	17.25	0.17	0.080	(0.042)	0.014	0.066
208	17.33	0.17	0.080	(0.042)	0.014	0.066
209	17.42	0.17	0.080	(0.042)	0.014	0.066
210	17.50	0.17	0.080	(0.042)	0.014	0.066
211	17.58	0.17	0.080	(0.041)	0.014	0.066
212	17.67	0.17	0.080	(0.041)	0.014	0.066
213	17.75	0.17	0.080	(0.041)	0.014	0.066
214	17.83	0.13	0.064	(0.041)	0.012	0.052
215	17.92	0.13	0.064	(0.041)	0.012	0.052
216	18.00	0.13	0.064	(0.040)	0.012	0.052
217	18.08	0.13	0.064	(0.040)	0.012	0.052
218	18.17	0.13	0.064	(0.040)	0.012	0.052
219	18.25	0.13	0.064	(0.040)	0.012	0.052
220	18.33	0.13	0.064	(0.040)	0.012	0.052
221	18.42	0.13	0.064	(0.039)	0.012	0.052
222	18.50	0.13	0.064	(0.039)	0.012	0.052
223	18.58	0.10	0.048	(0.039)	0.009	0.039
224	18.67	0.10	0.048	(0.039)	0.009	0.039
225	18.75	0.10	0.048	(0.039)	0.009	0.039
226	18.83	0.07	0.032	(0.038)	0.006	0.026
227	18.92	0.07	0.032	(0.038)	0.006	0.026
228	19.00	0.07	0.032	(0.038)	0.006	0.026
229	19.08	0.10	0.048	(0.038)	0.009	0.039
230	19.17	0.10	0.048	(0.038)	0.009	0.039
231	19.25	0.10	0.048	(0.038)	0.009	0.039
232	19.33	0.13	0.064	(0.037)	0.012	0.052
233	19.42	0.13	0.064	(0.037)	0.012	0.052
234	19.50	0.13	0.064	(0.037)	0.012	0.052
235	19.58	0.10	0.048	(0.037)	0.009	0.039
236	19.67	0.10	0.048	(0.037)	0.009	0.039
237	19.75	0.10	0.048	(0.037)	0.009	0.039
238	19.83	0.07	0.032	(0.036)	0.006	0.026
239	19.92	0.07	0.032	(0.036)	0.006	0.026
240	20.00	0.07	0.032	(0.036)	0.006	0.026
241	20.08	0.10	0.048	(0.036)	0.009	0.039
242	20.17	0.10	0.048	(0.036)	0.009	0.039
243	20.25	0.10	0.048	(0.036)	0.009	0.039
244	20.33	0.10	0.048	(0.035)	0.009	0.039
245	20.42	0.10	0.048	(0.035)	0.009	0.039
246	20.50	0.10	0.048	(0.035)	0.009	0.039
247	20.58	0.10	0.048	(0.035)	0.009	0.039
248	20.67	0.10	0.048	(0.035)	0.009	0.039
249	20.75	0.10	0.048	(0.035)	0.009	0.039
250	20.83	0.07	0.032	(0.035)	0.006	0.026
251	20.92	0.07	0.032	(0.034)	0.006	0.026
252	21.00	0.07	0.032	(0.034)	0.006	0.026
253	21.08	0.10	0.048	(0.034)	0.009	0.039
254	21.17	0.10	0.048	(0.034)	0.009	0.039
255	21.25	0.10	0.048	(0.034)	0.009	0.039
256	21.33	0.07	0.032	(0.034)	0.006	0.026
257	21.42	0.07	0.032	(0.034)	0.006	0.026
258	21.50	0.07	0.032	(0.033)	0.006	0.026

259	21.58	0.10	0.048	(0.033)	0.009	0.039
260	21.67	0.10	0.048	(0.033)	0.009	0.039
261	21.75	0.10	0.048	(0.033)	0.009	0.039
262	21.83	0.07	0.032	(0.033)	0.006	0.026
263	21.92	0.07	0.032	(0.033)	0.006	0.026
264	22.00	0.07	0.032	(0.033)	0.006	0.026
265	22.08	0.10	0.048	(0.033)	0.009	0.039
266	22.17	0.10	0.048	(0.033)	0.009	0.039
267	22.25	0.10	0.048	(0.032)	0.009	0.039
268	22.33	0.07	0.032	(0.032)	0.006	0.026
269	22.42	0.07	0.032	(0.032)	0.006	0.026
270	22.50	0.07	0.032	(0.032)	0.006	0.026
271	22.58	0.07	0.032	(0.032)	0.006	0.026
272	22.67	0.07	0.032	(0.032)	0.006	0.026
273	22.75	0.07	0.032	(0.032)	0.006	0.026
274	22.83	0.07	0.032	(0.032)	0.006	0.026
275	22.92	0.07	0.032	(0.032)	0.006	0.026
276	23.00	0.07	0.032	(0.032)	0.006	0.026
277	23.08	0.07	0.032	(0.032)	0.006	0.026
278	23.17	0.07	0.032	(0.031)	0.006	0.026
279	23.25	0.07	0.032	(0.031)	0.006	0.026
280	23.33	0.07	0.032	(0.031)	0.006	0.026
281	23.42	0.07	0.032	(0.031)	0.006	0.026
282	23.50	0.07	0.032	(0.031)	0.006	0.026
283	23.58	0.07	0.032	(0.031)	0.006	0.026
284	23.67	0.07	0.032	(0.031)	0.006	0.026
285	23.75	0.07	0.032	(0.031)	0.006	0.026
286	23.83	0.07	0.032	(0.031)	0.006	0.026
287	23.92	0.07	0.032	(0.031)	0.006	0.026
288	24.00	0.07	0.032	(0.031)	0.006	0.026

(Loss Rate Not Used)

Sum = 100.0 Sum = 40.4

Flood volume = Effective rainfall 3.37(In)
times area 5.8(Ac.)/[(In)/(Ft.)] = 1.6(Ac.Ft)
Total soil loss = 0.63(In)
Total soil loss = 0.303(Ac.Ft)
Total rainfall = 4.00(In)
Flood volume = 70580.0 Cubic Feet
Total soil loss = 13199.5 Cubic Feet

Peak flow rate of this hydrograph = 2.856(CFS)

++

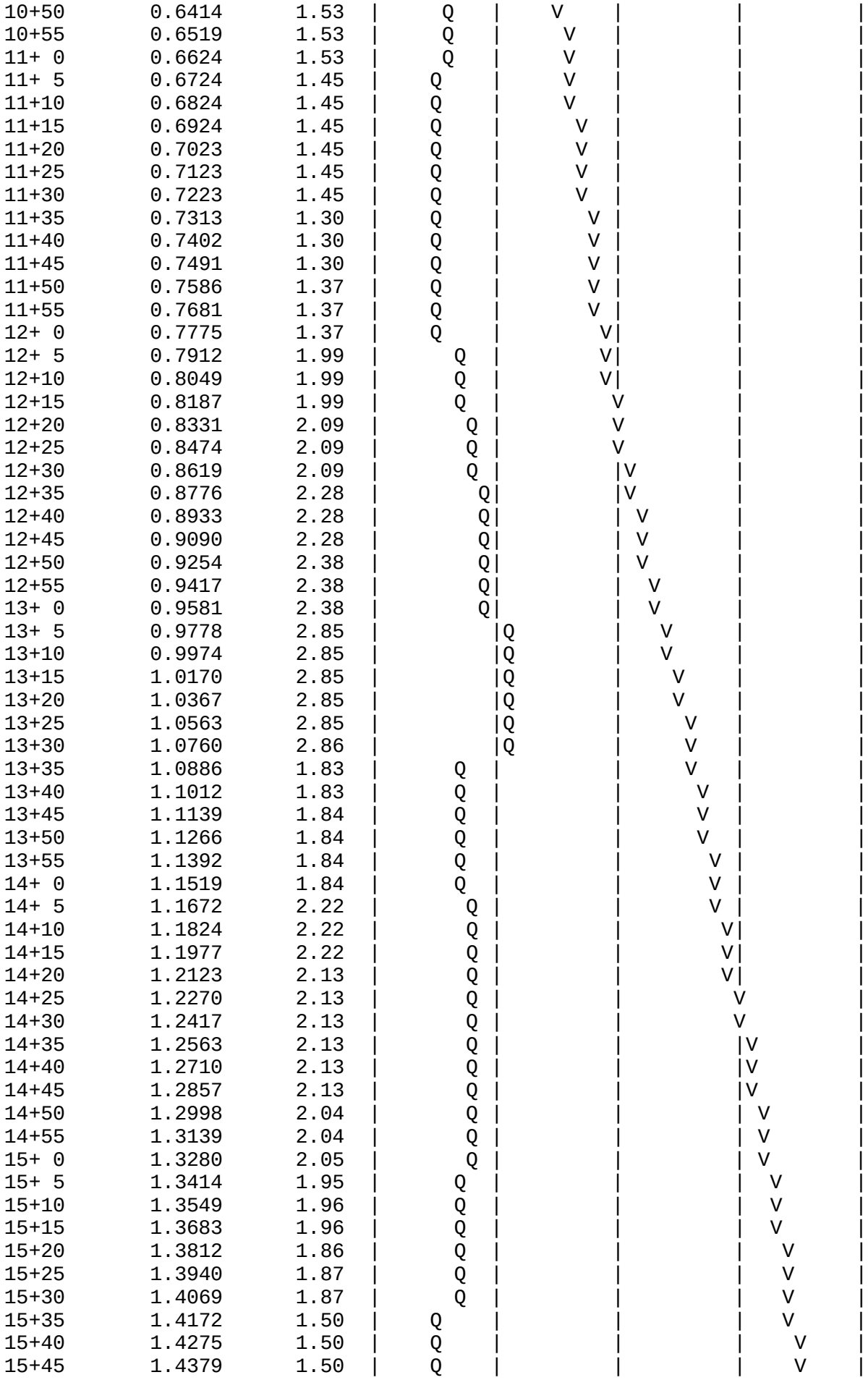
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0011	0.15	Q	|	|	|	|
0+10	0.0021	0.15	Q	|	|	|	|
0+15	0.0032	0.15	Q	|	|	|	|
0+20	0.0047	0.23	Q	|	|	|	|
0+25	0.0063	0.23	Q	|	|	|	|
0+30	0.0079	0.23	Q	|	|	|	|
0+35	0.0095	0.23	Q	|	|	|	|
0+40	0.0110	0.23	Q	|	|	|	|
0+45	0.0126	0.23	Q	|	|	|	|

```
0+50       0.0147      0.31  VQ       |          |          |          |
0+55       0.0168      0.31  VQ       |          |          |          |
1+ 0       0.0189      0.31  VQ       |          |          |          |
1+ 5       0.0205      0.23  Q        |          |          |          |
1+10       0.0221      0.23  Q        |          |          |          |
1+15       0.0237      0.23  Q        |          |          |          |
1+20       0.0252      0.23  Q        |          |          |          |
1+25       0.0268      0.23  Q        |          |          |          |
1+30       0.0284      0.23  Q        |          |          |          |
1+35       0.0300      0.23  Q        |          |          |          |
1+40       0.0315      0.23  Q        |          |          |          |
1+45       0.0331      0.23  Q        |          |          |          |
1+50       0.0352      0.31  VQ       |          |          |          |
1+55       0.0373      0.31  VQ       |          |          |          |
2+ 0       0.0394      0.31  VQ       |          |          |          |
2+ 5       0.0415      0.31  |Q       |          |          |          |
2+10       0.0436      0.31  |Q       |          |          |          |
2+15       0.0457      0.31  |Q       |          |          |          |
2+20       0.0478      0.31  |Q       |          |          |          |
2+25       0.0499      0.31  |Q       |          |          |          |
2+30       0.0520      0.31  |Q       |          |          |          |
2+35       0.0547      0.38  |Q       |          |          |          |
2+40       0.0573      0.38  |Q       |          |          |          |
2+45       0.0599      0.38  |Q       |          |          |          |
2+50       0.0626      0.38  |Q       |          |          |          |
2+55       0.0652      0.38  |Q       |          |          |          |
3+ 0       0.0678      0.38  |Q       |          |          |          |
3+ 5       0.0704      0.38  |Q       |          |          |          |
3+10       0.0731      0.38  |Q       |          |          |          |
3+15       0.0757      0.38  |Q       |          |          |          |
3+20       0.0783      0.38  |Q       |          |          |          |
3+25       0.0810      0.38  |Q       |          |          |          |
3+30       0.0836      0.38  |QV      |          |          |          |
3+35       0.0862      0.38  |QV      |          |          |          |
3+40       0.0888      0.38  |QV      |          |          |          |
3+45       0.0915      0.38  |QV      |          |          |          |
3+50       0.0946      0.46  |QV      |          |          |          |
3+55       0.0978      0.46  |QV      |          |          |          |
4+ 0       0.1009      0.46  |QV      |          |          |          |
4+ 5       0.1041      0.46  |QV      |          |          |          |
4+10       0.1072      0.46  |QV      |          |          |          |
4+15       0.1104      0.46  |QV      |          |          |          |
4+20       0.1141      0.53  | Q      |          |          |          |
4+25       0.1178      0.53  | Q      |          |          |          |
4+30       0.1214      0.53  | Q      |          |          |          |
4+35       0.1251      0.53  | QV     |          |          |          |
4+40       0.1288      0.53  | QV     |          |          |          |
4+45       0.1325      0.53  | QV     |          |          |          |
4+50       0.1367      0.61  | QV     |          |          |          |
4+55       0.1409      0.61  | QV     |          |          |          |
5+ 0       0.1451      0.61  | QV     |          |          |          |
5+ 5       0.1482      0.46  |Q V     |          |          |          |
5+10       0.1514      0.46  |Q V     |          |          |          |
5+15       0.1546      0.46  |Q V     |          |          |          |
5+20       0.1582      0.53  | QV     |          |          |          |
5+25       0.1619      0.53  | QV     |          |          |          |
5+30       0.1656      0.53  | Q V    |          |          |          |
5+35       0.1698      0.61  | Q V    |          |          |          |
5+40       0.1740      0.61  | Q V    |          |          |          |
5+45       0.1782      0.61  | Q V    |          |          |          |
```

5+50	0.1824	0.61	Q V				
5+55	0.1866	0.61	Q V				
6+ 0	0.1908	0.61	Q V				
6+ 5	0.1956	0.69	Q V				
6+10	0.2003	0.69	Q V				
6+15	0.2050	0.69	Q V				
6+20	0.2098	0.69	Q V				
6+25	0.2145	0.69	Q V				
6+30	0.2192	0.69	Q V				
6+35	0.2245	0.76	Q V				
6+40	0.2297	0.76	Q V				
6+45	0.2350	0.76	Q V				
6+50	0.2402	0.76	Q V				
6+55	0.2455	0.76	Q V				
7+ 0	0.2508	0.76	Q V				
7+ 5	0.2560	0.76	Q V				
7+10	0.2613	0.76	Q V				
7+15	0.2665	0.76	Q V				
7+20	0.2723	0.84	Q V				
7+25	0.2781	0.84	Q V				
7+30	0.2839	0.84	Q V				
7+35	0.2902	0.92	Q V				
7+40	0.2965	0.92	Q V				
7+45	0.3028	0.92	Q V				
7+50	0.3096	0.99	Q V				
7+55	0.3165	0.99	Q V				
8+ 0	0.3233	0.99	Q V				
8+ 5	0.3312	1.14	Q V				
8+10	0.3391	1.14	Q V				
8+15	0.3470	1.14	Q V				
8+20	0.3549	1.14	Q V				
8+25	0.3627	1.14	Q V				
8+30	0.3706	1.14	Q V				
8+35	0.3790	1.22	Q V				
8+40	0.3874	1.22	Q V				
8+45	0.3959	1.22	Q V				
8+50	0.4048	1.30	Q V				
8+55	0.4137	1.30	Q V				
9+ 0	0.4227	1.30	Q V				
9+ 5	0.4327	1.45	Q V				
9+10	0.4426	1.45	Q V				
9+15	0.4526	1.45	Q V				
9+20	0.4631	1.53	Q V				
9+25	0.4737	1.53	Q V				
9+30	0.4842	1.53	Q V				
9+35	0.4952	1.60	Q V				
9+40	0.5063	1.60	Q V				
9+45	0.5173	1.60	Q V				
9+50	0.5289	1.68	Q V				
9+55	0.5404	1.68	Q V				
10+ 0	0.5520	1.68	Q V				
10+ 5	0.5599	1.14	Q V				
10+10	0.5678	1.14	Q V				
10+15	0.5756	1.14	Q V				
10+20	0.5835	1.14	Q V				
10+25	0.5914	1.14	Q V				
10+30	0.5993	1.14	Q V				
10+35	0.6098	1.53	Q V				
10+40	0.6203	1.53	Q V				
10+45	0.6308	1.53	Q V				



```
15+50       1.4482      1.50  |     Q   |         |         |    V    |
15+55       1.4585      1.50  |     Q   |         |         |     V   |
16+ 0       1.4689      1.50  |     Q   |         |         |     V   |
16+ 5       1.4710      0.31  |Q        |         |         |     V   |
16+10       1.4731      0.31  |Q        |         |         |     V   |
16+15       1.4752      0.31  |Q        |         |         |     V   |
16+20       1.4773      0.31  |Q        |         |         |     V   |
16+25       1.4794      0.31  |Q        |         |         |     V   |
16+30       1.4815      0.31  |Q        |         |         |     V   |
16+35       1.4831      0.23  Q         |         |         |     V   |
16+40       1.4847      0.23  Q         |         |         |     V   |
16+45       1.4862      0.23  Q         |         |         |     V   |
16+50       1.4878      0.23  Q         |         |         |     V   |
16+55       1.4894      0.23  Q         |         |         |     V   |
17+ 0       1.4910      0.23  Q         |         |         |     V   |
17+ 5       1.4936      0.38  |Q        |         |         |     V   |
17+10       1.4962      0.38  |Q        |         |         |     V   |
17+15       1.4989      0.38  |Q        |         |         |      V  |
17+20       1.5015      0.38  |Q        |         |         |      V  |
17+25       1.5041      0.38  |Q        |         |         |      V  |
17+30       1.5067      0.38  |Q        |         |         |      V  |
17+35       1.5094      0.38  |Q        |         |         |      V  |
17+40       1.5120      0.38  |Q        |         |         |      V  |
17+45       1.5146      0.38  |Q        |         |         |      V  |
17+50       1.5167      0.31  |Q        |         |         |      V  |
17+55       1.5188      0.31  |Q        |         |         |      V  |
18+ 0       1.5209      0.31  |Q        |         |         |      V  |
18+ 5       1.5230      0.31  |Q        |         |         |      V  |
18+10       1.5251      0.31  |Q        |         |         |      V  |
18+15       1.5272      0.31  |Q        |         |         |      V  |
18+20       1.5293      0.31  |Q        |         |         |      V  |
18+25       1.5314      0.31  |Q        |         |         |      V  |
18+30       1.5336      0.31  |Q        |         |         |      V  |
18+35       1.5351      0.23  Q         |         |         |      V  |
18+40       1.5367      0.23  Q         |         |         |      V  |
18+45       1.5383      0.23  Q         |         |         |      V  |
18+50       1.5393      0.15  Q         |         |         |       V |
18+55       1.5404      0.15  Q         |         |         |       V |
19+ 0       1.5414      0.15  Q         |         |         |       V |
19+ 5       1.5430      0.23  Q         |         |         |       V |
19+10       1.5446      0.23  Q         |         |         |       V |
19+15       1.5462      0.23  Q         |         |         |       V |
19+20       1.5483      0.31  |Q        |         |         |       V |
19+25       1.5504      0.31  |Q        |         |         |       V |
19+30       1.5525      0.31  |Q        |         |         |       V |
19+35       1.5541      0.23  Q         |         |         |       V |
19+40       1.5556      0.23  Q         |         |         |       V |
19+45       1.5572      0.23  Q         |         |         |       V |
19+50       1.5583      0.15  Q         |         |         |       V |
19+55       1.5593      0.15  Q         |         |         |       V |
20+ 0       1.5604      0.15  Q         |         |         |       V |
20+ 5       1.5619      0.23  Q         |         |         |       V |
20+10       1.5635      0.23  Q         |         |         |       V |
20+15       1.5651      0.23  Q         |         |         |       V |
20+20       1.5667      0.23  Q         |         |         |       V |
20+25       1.5682      0.23  Q         |         |         |       V |
20+30       1.5698      0.23  Q         |         |         |       V |
20+35       1.5714      0.23  Q         |         |         |       V |
20+40       1.5730      0.23  Q         |         |         |       V |
20+45       1.5746      0.23  Q         |         |         |       V |
```

```
   20+50       1.5756      0.15  Q         |          |          |        V |
   20+55       1.5767      0.15  Q         |          |          |        V |
   21+ 0       1.5777      0.15  Q         |          |          |        V |
   21+ 5       1.5793      0.23  Q         |          |          |        V |
   21+10       1.5809      0.23  Q         |          |          |         V|
   21+15       1.5824      0.23  Q         |          |          |         V|
   21+20       1.5835      0.15  Q         |          |          |         V|
   21+25       1.5845      0.15  Q         |          |          |         V|
   21+30       1.5856      0.15  Q         |          |          |         V|
   21+35       1.5872      0.23  Q         |          |          |         V|
   21+40       1.5888      0.23  Q         |          |          |         V|
   21+45       1.5903      0.23  Q         |          |          |         V|
   21+50       1.5914      0.15  Q         |          |          |         V|
   21+55       1.5924      0.15  Q         |          |          |         V|
   22+ 0       1.5935      0.15  Q         |          |          |         V|
   22+ 5       1.5951      0.23  Q         |          |          |         V|
   22+10       1.5966      0.23  Q         |          |          |         V|
   22+15       1.5982      0.23  Q         |          |          |         V|
   22+20       1.5993      0.15  Q         |          |          |         V|
   22+25       1.6003      0.15  Q         |          |          |         V|
   22+30       1.6014      0.15  Q         |          |          |         V|
   22+35       1.6024      0.15  Q         |          |          |         V|
   22+40       1.6035      0.15  Q         |          |          |         V|
   22+45       1.6045      0.15  Q         |          |          |         V|
   22+50       1.6056      0.15  Q         |          |          |         V|
   22+55       1.6066      0.15  Q         |          |          |         V|
   23+ 0       1.6077      0.15  Q         |          |          |         V|
   23+ 5       1.6087      0.15  Q         |          |          |         V|
   23+10       1.6098      0.15  Q         |          |          |         V|
   23+15       1.6108      0.15  Q         |          |          |         V|
   23+20       1.6119      0.15  Q         |          |          |         V|
   23+25       1.6129      0.15  Q         |          |          |         V|
   23+30       1.6140      0.15  Q         |          |          |         V|
   23+35       1.6150      0.15  Q         |          |          |         V|
   23+40       1.6161      0.15  Q         |          |          |         V|
   23+45       1.6171      0.15  Q         |          |          |         V|
   23+50       1.6182      0.15  Q         |          |          |         V|
   23+55       1.6192      0.15  Q         |          |          |         V|
   24+ 0       1.6203      0.15  Q         |          |          |          V
-------------------------------------------------------------------------
```

APPENDIX E

FLOOD ROUTING CALCULATIONS

DRAINAGE AREA A BASIN
VOLUME CALCULATIONS
BASINS

UNDERGROUND VOLUME

VOLUME IN BASIN UNABLE TO DRAIN THROUGH BUBBLER BASIN VIA GRAVITY		PIPE CROSS SECTION AREA (SF)	PIPE LENGTH (LF)	PIPE VOLUME	VOLUME PROVIDED BY GRAVEL MEDIA (CU-FT) **	UNDERGROUND VOLUME PROVIDED (CU-FT)	UNDERGROUND VOLUME PROVIDED (AC-FT)	TOTAL UNDERGROUND VOLUME PROVIDED (AC-FT)
BASIN AREA (SQ-FT)	BASIN DEPTH (FT)							
7,644	0.00	0	0		0	0	0.000	0.000
7,644	1.00				3,058	3,058	0.070	0.070
7,644	2.00	2.80	582	1,630	2,406	4,035	0.093	0.163
7,644	3.00	4.54	582	2,642	2,001	4,643	0.107	0.269
7,644	4.00	4.97	582	2,893	1,901	4,793	0.110	0.379
7,644	5.00	4.54	582	2,642	2,001	4,643	0.107	0.486
7,644	6.00	2.80	582	1,630	2,406	4,035	0.093	0.579
7,644	7.00				3,058	3,058	0.070	0.649
7,644	8.00				3,058	3,058	0.070	0.719

FIRST 3' USED FOR WQ

PERFORATED PIPE VOLUME CALCS

PIPE DIAMTER =	5	FT
LENGTH	498	FT
VOLUME	9,778	CU-FT

NOTES:
** VOLUME GRAVEL MEDIA =((BASIN AREA X BASIN DEPTH) - VOLUME PERFORATED PIPES) X 0.40 GRAVEL VOID RATIO (VOLUME NOT USED IN CALCULATIONS)

TABLE B

BASIN OUTLET FLOW CALCULATIONS

BASIN A

MWS UNIT
MODEL MWS L-4-15

Treatment Flow Rate =

Q= 0.23 cfs

RISER 1

ORIFICE 1		ORIFICE 2		ORIFICE 3		ORIFICE 4	
Rectangular Outlet		Circular Outlet		Circular Outlet		Circular Outlet	
WQ Outlet (Orifice)		WQ Outlet (Orifice)		WQ Outlet (Orifice)		WQ Outlet (Orifice)	
Q(WQ)=CA(2gH)^0.5		Q(WQ)=CA(2gH)^0.5		Q(WQ)=CA(2gH)^0.5		Q(WQ)=CA(2gH)^0.5	
C=	0.6	C=	0.6	C=	0.6	C=	0.6
Area Total=	0.00 sq-ft	Area Total=	0.00 sq-ft	Area Total=	0.00 sq-ft	Area Total=	0.44 sq-ft
W=	8 in	Opending Diameter =	4 in	Opending Diameter =	4 in	Opending Diameter =	4 in
H=	8 in	# of holes =	0	# of holes =	0	# of holes =	5
# of holes =	0						
Elevation =	0 ft	Elevation =	2 ft	Elevation =	3 ft	Elevation =	3.00 ft

ELEVATION	DEPTH (H) ABOVE ORIFICE	Q(WQ) (cfs)	DEPTH (H) ABOVE ORIFICE 2	Q(WQ) (cfs)	DEPTH (H) ABOVE ORIFICE	Q(WQ) (cfs)	DEPTH (H) ABOVE ORIFICE 4	Q(WQ) (cfs)	Q TG (Weir) (cfs)	Q MWS UNIT (cfs)	Q TOTAL (cfs)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
1	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
2	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
3	3.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
4	4.00	0.00	2.00	0.00	1.00	0.00	1.00	1.92	0.00	0.23	2.15
5	5.00	0.00	3.00	0.00	2.00	0.00	2.00	2.84	0.00	0.23	3.07
6	6.00	0.00	4.00	0.00	3.00	0.00	3.00	3.53	0.00	0.23	3.76
7	6.00	0.00	5.00	0.00	4.00	0.00	4.00	4.11	0.00	0.23	4.34
8	10.00	0.00	6.00	0.00	5.00	0.00	5.00	4.62	0.00	0.23	4.85

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
2-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 12
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 9.787 (CFS)
Total volume = 0.208 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 12
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	2.4	4.89	7.34	9.79	Depth (Ft.)
0.083	0.97	0.01	0.003	O I	|	|	|	|	0.05
0.167	1.35	0.04	0.011	O I	|	|	|	|	0.16
0.250	1.35	0.07	0.020	O I	|	|	|	|	0.29
0.333	1.46	0.10	0.029	O I	|	|	|	|	0.42
0.417	1.66	0.13	0.039	O I	|	|	|	|	0.56
0.500	1.69	0.16	0.050	O I	|	|	|	|	0.71
0.583	2.03	0.20	0.061	O I	|	|	|	|	0.87
0.667	2.49	0.23	0.075	O I	|	|	|	|	1.06
0.750	4.03	0.23	0.096	O |	I |	|	|	|	1.28
0.833	9.79	0.23	0.142	O |	|	|	|	I	1.78
0.917	2.20	0.23	0.182	O I	|	|	|	|	2.18
1.000	1.14	0.23	0.192	O I	|	|	|	|	2.27
1.083	0.00	0.23	0.194	O	|	|	|	|	2.29
1.167	0.00	0.23	0.193	O	|	|	|	|	2.28
1.250	0.00	0.23	0.191	O	|	|	|	|	2.26
1.333	0.00	0.23	0.189	O	|	|	|	|	2.25
1.417	0.00	0.23	0.188	O	|	|	|	|	2.23
1.500	0.00	0.23	0.186	O	|	|	|	|	2.22
1.583	0.00	0.23	0.185	O	|	|	|	|	2.20
1.667	0.00	0.23	0.183	O	|	|	|	|	2.19
1.750	0.00	0.23	0.181	O	|	|	|	|	2.17
1.833	0.00	0.23	0.180	O	|	|	|	|	2.16
1.917	0.00	0.23	0.178	O	|	|	|	|	2.14
2.000	0.00	0.23	0.177	O	|	|	|	|	2.13
2.083	0.00	0.23	0.175	O	|	|	|	|	2.11
2.167	0.00	0.23	0.174	O	|	|	|	|	2.10
2.250	0.00	0.23	0.172	O	|	|	|	|	2.08
2.333	0.00	0.23	0.170	O	|	|	|	|	2.07
2.417	0.00	0.23	0.169	O	|	|	|	|	2.05
2.500	0.00	0.23	0.167	O	|	|	|	|	2.04
2.583	0.00	0.23	0.166	O	|	|	|	|	2.02
2.667	0.00	0.23	0.164	O	|	|	|	|	2.01
2.750	0.00	0.23	0.162	O	|	|	|	|	1.99
2.833	0.00	0.23	0.161	O	|	|	|	|	1.98
2.917	0.00	0.23	0.159	O	|	|	|	|	1.96
3.000	0.00	0.23	0.158	O	|	|	|	|	1.94
3.083	0.00	0.23	0.156	O	|	|	|	|	1.93
3.167	0.00	0.23	0.155	O	|	|	|	|	1.91
3.250	0.00	0.23	0.153	O	|	|	|	|	1.89
3.333	0.00	0.23	0.151	O	|	|	|	|	1.88
3.417	0.00	0.23	0.150	O	|	|	|	|	1.86
3.500	0.00	0.23	0.148	O	|	|	|	|	1.84
3.583	0.00	0.23	0.147	O	|	|	|	|	1.82
3.667	0.00	0.23	0.145	O	|	|	|	|	1.81
3.750	0.00	0.23	0.143	O	|	|	|	|	1.79
3.833	0.00	0.23	0.142	O	|	|	|	|	1.77
3.917	0.00	0.23	0.140	O	|	|	|	|	1.76

4.000	0.00	0.23	0.139	O				1.74
4.083	0.00	0.23	0.137	O				1.72
4.167	0.00	0.23	0.136	O				1.70
4.250	0.00	0.23	0.134	O				1.69
4.333	0.00	0.23	0.132	O				1.67
4.417	0.00	0.23	0.131	O				1.65
4.500	0.00	0.23	0.129	O				1.64
4.583	0.00	0.23	0.128	O				1.62
4.667	0.00	0.23	0.126	O				1.60
4.750	0.00	0.23	0.124	O				1.59
4.833	0.00	0.23	0.123	O				1.57
4.917	0.00	0.23	0.121	O				1.55
5.000	0.00	0.23	0.120	O				1.53
5.083	0.00	0.23	0.118	O				1.52
5.167	0.00	0.23	0.117	O				1.50
5.250	0.00	0.23	0.115	O				1.48
5.333	0.00	0.23	0.113	O				1.47
5.417	0.00	0.23	0.112	O				1.45
5.500	0.00	0.23	0.110	O				1.43
5.583	0.00	0.23	0.109	O				1.42
5.667	0.00	0.23	0.107	O				1.40
5.750	0.00	0.23	0.105	O				1.38
5.833	0.00	0.23	0.104	O				1.36
5.917	0.00	0.23	0.102	O				1.35
6.000	0.00	0.23	0.101	O				1.33
6.083	0.00	0.23	0.099	O				1.31
6.167	0.00	0.23	0.098	O				1.30
6.250	0.00	0.23	0.096	O				1.28
6.333	0.00	0.23	0.094	O				1.26
6.417	0.00	0.23	0.093	O				1.24
6.500	0.00	0.23	0.091	O				1.23
6.583	0.00	0.23	0.090	O				1.21
6.667	0.00	0.23	0.088	O				1.19
6.750	0.00	0.23	0.086	O				1.18
6.833	0.00	0.23	0.085	O				1.16
6.917	0.00	0.23	0.083	O				1.14
7.000	0.00	0.23	0.082	O				1.13
7.083	0.00	0.23	0.080	O				1.11
7.167	0.00	0.23	0.079	O				1.09
7.250	0.00	0.23	0.077	O				1.07
7.333	0.00	0.23	0.075	O				1.06
7.417	0.00	0.23	0.074	O				1.04
7.500	0.00	0.23	0.072	O				1.02
7.583	0.00	0.23	0.071	O				1.01
7.667	0.00	0.23	0.069	O				0.99
7.750	0.00	0.22	0.067	O				0.96
7.833	0.00	0.22	0.066	O				0.94
7.917	0.00	0.21	0.064	O				0.92
8.000	0.00	0.21	0.063	O				0.90
8.083	0.00	0.20	0.062	O				0.88
8.167	0.00	0.20	0.060	O				0.86
8.250	0.00	0.19	0.059	O				0.84
8.333	0.00	0.19	0.058	O				0.82
8.417	0.00	0.19	0.056	O				0.80
8.500	0.00	0.18	0.055	O				0.79
8.583	0.00	0.18	0.054	O				0.77
8.667	0.00	0.17	0.053	O				0.75
8.750	0.00	0.17	0.051	O				0.73
8.833	0.00	0.17	0.050	O				0.72
8.917	0.00	0.16	0.049	O				0.70

9.000	0.00	0.16	0.048	O	|	|	|	|	0.69
9.083	0.00	0.15	0.047	O	|	|	|	|	0.67
9.167	0.00	0.15	0.046	O	|	|	|	|	0.66
9.250	0.00	0.15	0.045	O	|	|	|	|	0.64
9.333	0.00	0.14	0.044	O	|	|	|	|	0.63
9.417	0.00	0.14	0.043	O	|	|	|	|	0.61
9.500	0.00	0.14	0.042	O	|	|	|	|	0.60
9.583	0.00	0.13	0.041	O	|	|	|	|	0.59
9.667	0.00	0.13	0.040	O	|	|	|	|	0.57
9.750	0.00	0.13	0.039	O	|	|	|	|	0.56
9.833	0.00	0.13	0.038	O	|	|	|	|	0.55
9.917	0.00	0.12	0.037	O	|	|	|	|	0.54
10.000	0.00	0.12	0.037	O	|	|	|	|	0.52
10.083	0.00	0.12	0.036	O	|	|	|	|	0.51
10.167	0.00	0.12	0.035	O	|	|	|	|	0.50
10.250	0.00	0.11	0.034	O	|	|	|	|	0.49
10.333	0.00	0.11	0.033	O	|	|	|	|	0.48
10.417	0.00	0.11	0.033	O	|	|	|	|	0.47
10.500	0.00	0.11	0.032	O	|	|	|	|	0.46
10.583	0.00	0.10	0.031	O	|	|	|	|	0.45
10.667	0.00	0.10	0.031	O	|	|	|	|	0.44
10.750	0.00	0.10	0.030	O	|	|	|	|	0.43
10.833	0.00	0.10	0.029	O	|	|	|	|	0.42
10.917	0.00	0.09	0.029	O	|	|	|	|	0.41
11.000	0.00	0.09	0.028	O	|	|	|	|	0.40
11.083	0.00	0.09	0.027	O	|	|	|	|	0.39
11.167	0.00	0.09	0.027	O	|	|	|	|	0.38
11.250	0.00	0.09	0.026	O	|	|	|	|	0.37
11.333	0.00	0.08	0.026	O	|	|	|	|	0.36
11.417	0.00	0.08	0.025	O	|	|	|	|	0.36
11.500	0.00	0.08	0.024	O	|	|	|	|	0.35
11.583	0.00	0.08	0.024	O	|	|	|	|	0.34
11.667	0.00	0.08	0.023	O	|	|	|	|	0.33
11.750	0.00	0.07	0.023	O	|	|	|	|	0.33
11.833	0.00	0.07	0.022	O	|	|	|	|	0.32
11.917	0.00	0.07	0.022	O	|	|	|	|	0.31
12.000	0.00	0.07	0.021	O	|	|	|	|	0.30
12.083	0.00	0.07	0.021	O	|	|	|	|	0.30
12.167	0.00	0.07	0.020	O	|	|	|	|	0.29
12.250	0.00	0.07	0.020	O	|	|	|	|	0.28
12.333	0.00	0.06	0.019	O	|	|	|	|	0.28
12.417	0.00	0.06	0.019	O	|	|	|	|	0.27
12.500	0.00	0.06	0.019	O	|	|	|	|	0.27
12.583	0.00	0.06	0.018	O	|	|	|	|	0.26
12.667	0.00	0.06	0.018	O	|	|	|	|	0.25
12.750	0.00	0.06	0.017	O	|	|	|	|	0.25
12.833	0.00	0.06	0.017	O	|	|	|	|	0.24
12.917	0.00	0.05	0.017	O	|	|	|	|	0.24
13.000	0.00	0.05	0.016	O	|	|	|	|	0.23
13.083	0.00	0.05	0.016	O	|	|	|	|	0.23
13.167	0.00	0.05	0.016	O	|	|	|	|	0.22
13.250	0.00	0.05	0.015	O	|	|	|	|	0.22
13.333	0.00	0.05	0.015	O	|	|	|	|	0.21
13.417	0.00	0.05	0.014	O	|	|	|	|	0.21
13.500	0.00	0.05	0.014	O	|	|	|	|	0.20
13.583	0.00	0.05	0.014	O	|	|	|	|	0.20
13.667	0.00	0.04	0.014	O	|	|	|	|	0.19
13.750	0.00	0.04	0.013	O	|	|	|	|	0.19
13.833	0.00	0.04	0.013	O	|	|	|	|	0.18
13.917	0.00	0.04	0.013	O	|	|	|	|	0.18

14.000	0.00	0.04	0.012	O	|	|	|	0.18
14.083	0.00	0.04	0.012	O	|	|	|	0.17
14.167	0.00	0.04	0.012	O	|	|	|	0.17
14.250	0.00	0.04	0.012	O	|	|	|	0.17
14.333	0.00	0.04	0.011	O	|	|	|	0.16
14.417	0.00	0.04	0.011	O	|	|	|	0.16
14.500	0.00	0.04	0.011	O	|	|	|	0.15
14.583	0.00	0.03	0.011	O	|	|	|	0.15
14.667	0.00	0.03	0.010	O	|	|	|	0.15
14.750	0.00	0.03	0.010	O	|	|	|	0.14
14.833	0.00	0.03	0.010	O	|	|	|	0.14
14.917	0.00	0.03	0.010	O	|	|	|	0.14
15.000	0.00	0.03	0.009	O	|	|	|	0.13
15.083	0.00	0.03	0.009	O	|	|	|	0.13
15.167	0.00	0.03	0.009	O	|	|	|	0.13
15.250	0.00	0.03	0.009	O	|	|	|	0.13
15.333	0.00	0.03	0.009	O	|	|	|	0.12
15.417	0.00	0.03	0.008	O	|	|	|	0.12
15.500	0.00	0.03	0.008	O	|	|	|	0.12
15.583	0.00	0.03	0.008	O	|	|	|	0.11
15.667	0.00	0.03	0.008	O	|	|	|	0.11
15.750	0.00	0.03	0.008	O	|	|	|	0.11
15.833	0.00	0.02	0.008	O	|	|	|	0.11
15.917	0.00	0.02	0.007	O	|	|	|	0.10
16.000	0.00	0.02	0.007	O	|	|	|	0.10
16.083	0.00	0.02	0.007	O	|	|	|	0.10
16.167	0.00	0.02	0.007	O	|	|	|	0.10
16.250	0.00	0.02	0.007	O	|	|	|	0.10
16.333	0.00	0.02	0.007	O	|	|	|	0.09
16.417	0.00	0.02	0.006	O	|	|	|	0.09
16.500	0.00	0.02	0.006	O	|	|	|	0.09
16.583	0.00	0.02	0.006	O	|	|	|	0.09
16.667	0.00	0.02	0.006	O	|	|	|	0.09
16.750	0.00	0.02	0.006	O	|	|	|	0.08
16.833	0.00	0.02	0.006	O	|	|	|	0.08
16.917	0.00	0.02	0.006	O	|	|	|	0.08
17.000	0.00	0.02	0.005	O	|	|	|	0.08
17.083	0.00	0.02	0.005	O	|	|	|	0.08
17.167	0.00	0.02	0.005	O	|	|	|	0.07
17.250	0.00	0.02	0.005	O	|	|	|	0.07
17.333	0.00	0.02	0.005	O	|	|	|	0.07
17.417	0.00	0.02	0.005	O	|	|	|	0.07
17.500	0.00	0.02	0.005	O	|	|	|	0.07
17.583	0.00	0.02	0.005	O	|	|	|	0.07
17.667	0.00	0.02	0.005	O	|	|	|	0.07
17.750	0.00	0.01	0.004	O	|	|	|	0.06
17.833	0.00	0.01	0.004	O	|	|	|	0.06
17.917	0.00	0.01	0.004	O	|	|	|	0.06
18.000	0.00	0.01	0.004	O	|	|	|	0.06
18.083	0.00	0.01	0.004	O	|	|	|	0.06
18.167	0.00	0.01	0.004	O	|	|	|	0.06
18.250	0.00	0.01	0.004	O	|	|	|	0.06
18.333	0.00	0.01	0.004	O	|	|	|	0.05
18.417	0.00	0.01	0.004	O	|	|	|	0.05
18.500	0.00	0.01	0.004	O	|	|	|	0.05
18.583	0.00	0.01	0.004	O	|	|	|	0.05
18.667	0.00	0.01	0.003	O	|	|	|	0.05
18.750	0.00	0.01	0.003	O	|	|	|	0.05
18.833	0.00	0.01	0.003	O	|	|	|	0.05
18.917	0.00	0.01	0.003	O	|	|	|	0.05

19.000	0.00	0.01	0.003	O	|	|	|	0.05
19.083	0.00	0.01	0.003	O	|	|	|	0.04
19.167	0.00	0.01	0.003	O	|	|	|	0.04
19.250	0.00	0.01	0.003	O	|	|	|	0.04
19.333	0.00	0.01	0.003	O	|	|	|	0.04
19.417	0.00	0.01	0.003	O	|	|	|	0.04
19.500	0.00	0.01	0.003	O	|	|	|	0.04
19.583	0.00	0.01	0.003	O	|	|	|	0.04
19.667	0.00	0.01	0.003	O	|	|	|	0.04
19.750	0.00	0.01	0.003	O	|	|	|	0.04
19.833	0.00	0.01	0.003	O	|	|	|	0.04
19.917	0.00	0.01	0.002	O	|	|	|	0.04
20.000	0.00	0.01	0.002	O	|	|	|	0.03
20.083	0.00	0.01	0.002	O	|	|	|	0.03
20.167	0.00	0.01	0.002	O	|	|	|	0.03
20.250	0.00	0.01	0.002	O	|	|	|	0.03
20.333	0.00	0.01	0.002	O	|	|	|	0.03
20.417	0.00	0.01	0.002	O	|	|	|	0.03
20.500	0.00	0.01	0.002	O	|	|	|	0.03
20.583	0.00	0.01	0.002	O	|	|	|	0.03
20.667	0.00	0.01	0.002	O	|	|	|	0.03
20.750	0.00	0.01	0.002	O	|	|	|	0.03
20.833	0.00	0.01	0.002	O	|	|	|	0.03
20.917	0.00	0.01	0.002	O	|	|	|	0.03
21.000	0.00	0.01	0.002	O	|	|	|	0.03
21.083	0.00	0.01	0.002	O	|	|	|	0.03
21.167	0.00	0.01	0.002	O	|	|	|	0.03
21.250	0.00	0.01	0.002	O	|	|	|	0.02
21.333	0.00	0.01	0.002	O	|	|	|	0.02
21.417	0.00	0.01	0.002	O	|	|	|	0.02
21.500	0.00	0.01	0.002	O	|	|	|	0.02
21.583	0.00	0.01	0.002	O	|	|	|	0.02
21.667	0.00	0.01	0.002	O	|	|	|	0.02
21.750	0.00	0.00	0.002	O	|	|	|	0.02
21.833	0.00	0.00	0.001	O	|	|	|	0.02
21.917	0.00	0.00	0.001	O	|	|	|	0.02
22.000	0.00	0.00	0.001	O	|	|	|	0.02
22.083	0.00	0.00	0.001	O	|	|	|	0.02
22.167	0.00	0.00	0.001	O	|	|	|	0.02
22.250	0.00	0.00	0.001	O	|	|	|	0.02
22.333	0.00	0.00	0.001	O	|	|	|	0.02
22.417	0.00	0.00	0.001	O	|	|	|	0.02
22.500	0.00	0.00	0.001	O	|	|	|	0.02
22.583	0.00	0.00	0.001	O	|	|	|	0.02
22.667	0.00	0.00	0.001	O	|	|	|	0.02
22.750	0.00	0.00	0.001	O	|	|	|	0.02
22.833	0.00	0.00	0.001	O	|	|	|	0.02
22.917	0.00	0.00	0.001	O	|	|	|	0.02
23.000	0.00	0.00	0.001	O	|	|	|	0.02
23.083	0.00	0.00	0.001	O	|	|	|	0.01
23.167	0.00	0.00	0.001	O	|	|	|	0.01
23.250	0.00	0.00	0.001	O	|	|	|	0.01
23.333	0.00	0.00	0.001	O	|	|	|	0.01
23.417	0.00	0.00	0.001	O	|	|	|	0.01
23.500	0.00	0.00	0.001	O	|	|	|	0.01
23.583	0.00	0.00	0.001	O	|	|	|	0.01
23.667	0.00	0.00	0.001	O	|	|	|	0.01
23.750	0.00	0.00	0.001	O	|	|	|	0.01
23.833	0.00	0.00	0.001	O	|	|	|	0.01
23.917	0.00	0.00	0.001	O	|	|	|	0.01

24.000	0.00	0.00	0.001	O	|	|	|	|	0.01
24.083	0.00	0.00	0.001	O	|	|	|	|	0.01
24.167	0.00	0.00	0.001	O	|	|	|	|	0.01
24.250	0.00	0.00	0.001	O	|	|	|	|	0.01
24.333	0.00	0.00	0.001	O	|	|	|	|	0.01
24.417	0.00	0.00	0.001	O	|	|	|	|	0.01
24.500	0.00	0.00	0.001	O	|	|	|	|	0.01
24.583	0.00	0.00	0.001	O	|	|	|	|	0.01
24.667	0.00	0.00	0.001	O	|	|	|	|	0.01
24.750	0.00	0.00	0.001	O	|	|	|	|	0.01
24.833	0.00	0.00	0.001	O	|	|	|	|	0.01
24.917	0.00	0.00	0.001	O	|	|	|	|	0.01
25.000	0.00	0.00	0.001	O	|	|	|	|	0.01
25.083	0.00	0.00	0.001	O	|	|	|	|	0.01
25.167	0.00	0.00	0.001	O	|	|	|	|	0.01
25.250	0.00	0.00	0.001	O	|	|	|	|	0.01
25.333	0.00	0.00	0.001	O	|	|	|	|	0.01
25.417	0.00	0.00	0.001	O	|	|	|	|	0.01
25.500	0.00	0.00	0.001	O	|	|	|	|	0.01
25.583	0.00	0.00	0.001	O	|	|	|	|	0.01
25.667	0.00	0.00	0.001	O	|	|	|	|	0.01
25.750	0.00	0.00	0.001	O	|	|	|	|	0.01
25.833	0.00	0.00	0.000	O	|	|	|	|	0.01
25.917	0.00	0.00	0.000	O	|	|	|	|	0.01
26.000	0.00	0.00	0.000	O	|	|	|	|	0.01
26.083	0.00	0.00	0.000	O	|	|	|	|	0.01
26.167	0.00	0.00	0.000	O	|	|	|	|	0.01
26.250	0.00	0.00	0.000	O	|	|	|	|	0.01
26.333	0.00	0.00	0.000	O	|	|	|	|	0.01
26.417	0.00	0.00	0.000	O	|	|	|	|	0.01
26.500	0.00	0.00	0.000	O	|	|	|	|	0.01
26.583	0.00	0.00	0.000	O	|	|	|	|	0.01
26.667	0.00	0.00	0.000	O	|	|	|	|	0.01
26.750	0.00	0.00	0.000	O	|	|	|	|	0.01
26.833	0.00	0.00	0.000	O	|	|	|	|	0.01
26.917	0.00	0.00	0.000	O	|	|	|	|	0.01
27.000	0.00	0.00	0.000	O	|	|	|	|	0.01
27.083	0.00	0.00	0.000	O	|	|	|	|	0.01
27.167	0.00	0.00	0.000	O	|	|	|	|	0.00
27.250	0.00	0.00	0.000	O	|	|	|	|	0.00
27.333	0.00	0.00	0.000	O	|	|	|	|	0.00
27.417	0.00	0.00	0.000	O	|	|	|	|	0.00
27.500	0.00	0.00	0.000	O	|	|	|	|	0.00
27.583	0.00	0.00	0.000	O	|	|	|	|	0.00
27.667	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 332
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.230 (CFS)
Total volume = 0.207 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
2-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 36
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 3.999 (CFS)
Total volume = 0.319 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 36
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 1.0 2.00 3.00 4.00	Depth (Ft.)
0.083	0.60	0.01	0.002	O I | | | |	0.03
0.167	0.60	0.02	0.006	O I | | | |	0.09
0.250	0.50	0.03	0.010	O I | | | |	0.14
0.333	0.69	0.04	0.013	O I | | | |	0.19
0.417	0.69	0.06	0.018	O I | | | |	0.26
0.500	0.82	0.07	0.023	O I | | | |	0.32
0.583	0.69	0.09	0.027	O I | | | |	0.39
0.667	0.82	0.10	0.032	O I | | | |	0.45
0.750	0.82	0.12	0.037	O I | | | |	0.52
0.833	0.69	0.13	0.041	|O I | | | |	0.59
0.917	0.73	0.15	0.045	|O I | | | |	0.64
1.000	0.82	0.16	0.049	|O I | | | |	0.70
1.083	1.01	0.18	0.054	|O I | | | |	0.78
1.167	1.01	0.20	0.060	|O I | | | |	0.86
1.250	1.01	0.22	0.066	|O I | | | |	0.94
1.333	0.92	0.23	0.071	|O I| | | |	1.01
1.417	1.19	0.23	0.076	|O |I | | |	1.07
1.500	1.24	0.23	0.083	|O |I | | |	1.14
1.583	1.10	0.23	0.090	|O I | | |	1.21
1.667	1.24	0.23	0.096	|O |I | | |	1.28
1.750	1.51	0.23	0.104	|O | I | | |	1.36
1.833	1.42	0.23	0.112	|O | I | | |	1.46
1.917	1.33	0.23	0.120	|O | I | | |	1.54
2.000	1.37	0.23	0.128	|O | I | | |	1.62
2.083	1.42	0.23	0.136	|O | I | | |	1.71
2.167	1.92	0.23	0.146	|O | | I| | |	1.82
2.250	2.29	0.23	0.159	|O | | | I | | |	1.96
2.333	1.60	0.23	0.171	|O | | I | | |	2.07
2.417	3.22	0.23	0.186	|O | | | |I |	2.21
2.500	3.50	0.23	0.207	|O | | | | I |	2.42
2.583	4.00	0.23	0.231	|O | | | | | I	2.65
2.667	2.71	0.23	0.253	|O | | | I | |	2.85
2.750	0.92	0.23	0.264	|O | I| | | |	2.95
2.833	0.82	0.23	0.268	|O | I | | | |	2.99
2.917	0.82	0.29	0.272	| O | I | | | |	3.03
3.000	0.27	0.32	0.274	| O | | | | |	3.04
3.083	0.00	0.30	0.273	I O | | | | |	3.03
3.167	0.00	0.26	0.271	I O | | | | |	3.02
3.250	0.00	0.23	0.269	IO | | | | |	3.00
3.333	0.00	0.23	0.268	IO | | | | |	2.99
3.417	0.00	0.23	0.266	IO | | | | |	2.97
3.500	0.00	0.23	0.264	IO | | | | |	2.96
3.583	0.00	0.23	0.263	IO | | | | |	2.94
3.667	0.00	0.23	0.261	IO | | | | |	2.93
3.750	0.00	0.23	0.260	IO | | | | |	2.91
3.833	0.00	0.23	0.258	IO | | | | |	2.90
3.917	0.00	0.23	0.256	IO | | | | |	2.88

4.000	0.00	0.23	0.255	IO				2.87
4.083	0.00	0.23	0.253	IO				2.85
4.167	0.00	0.23	0.252	IO				2.84
4.250	0.00	0.23	0.250	IO				2.82
4.333	0.00	0.23	0.249	IO				2.81
4.417	0.00	0.23	0.247	IO				2.79
4.500	0.00	0.23	0.245	IO				2.78
4.583	0.00	0.23	0.244	IO				2.76
4.667	0.00	0.23	0.242	IO				2.75
4.750	0.00	0.23	0.241	IO				2.73
4.833	0.00	0.23	0.239	IO				2.72
4.917	0.00	0.23	0.237	IO				2.70
5.000	0.00	0.23	0.236	IO				2.69
5.083	0.00	0.23	0.234	IO				2.67
5.167	0.00	0.23	0.233	IO				2.66
5.250	0.00	0.23	0.231	IO				2.64
5.333	0.00	0.23	0.230	IO				2.63
5.417	0.00	0.23	0.228	IO				2.61
5.500	0.00	0.23	0.226	IO				2.60
5.583	0.00	0.23	0.225	IO				2.58
5.667	0.00	0.23	0.223	IO				2.57
5.750	0.00	0.23	0.222	IO				2.55
5.833	0.00	0.23	0.220	IO				2.54
5.917	0.00	0.23	0.218	IO				2.52
6.000	0.00	0.23	0.217	IO				2.51
6.083	0.00	0.23	0.215	IO				2.49
6.167	0.00	0.23	0.214	IO				2.48
6.250	0.00	0.23	0.212	IO				2.46
6.333	0.00	0.23	0.211	IO				2.45
6.417	0.00	0.23	0.209	IO				2.43
6.500	0.00	0.23	0.207	IO				2.42
6.583	0.00	0.23	0.206	IO				2.40
6.667	0.00	0.23	0.204	IO				2.39
6.750	0.00	0.23	0.203	IO				2.37
6.833	0.00	0.23	0.201	IO				2.36
6.917	0.00	0.23	0.199	IO				2.34
7.000	0.00	0.23	0.198	IO				2.33
7.083	0.00	0.23	0.196	IO				2.31
7.167	0.00	0.23	0.195	IO				2.30
7.250	0.00	0.23	0.193	IO				2.28
7.333	0.00	0.23	0.192	IO				2.27
7.417	0.00	0.23	0.190	IO				2.25
7.500	0.00	0.23	0.188	IO				2.24
7.583	0.00	0.23	0.187	IO				2.22
7.667	0.00	0.23	0.185	IO				2.21
7.750	0.00	0.23	0.184	IO				2.19
7.833	0.00	0.23	0.182	IO				2.18
7.917	0.00	0.23	0.180	IO				2.16
8.000	0.00	0.23	0.179	IO				2.15
8.083	0.00	0.23	0.177	IO				2.13
8.167	0.00	0.23	0.176	IO				2.12
8.250	0.00	0.23	0.174	IO				2.10
8.333	0.00	0.23	0.173	IO				2.09
8.417	0.00	0.23	0.171	IO				2.07
8.500	0.00	0.23	0.169	IO				2.06
8.583	0.00	0.23	0.168	IO				2.04
8.667	0.00	0.23	0.166	IO				2.03
8.750	0.00	0.23	0.165	IO				2.02
8.833	0.00	0.23	0.163	IO				2.00
8.917	0.00	0.23	0.161	IO				1.98

9.000	0.00	0.23	0.160	IO				1.97
9.083	0.00	0.23	0.158	IO				1.95
9.167	0.00	0.23	0.157	IO				1.93
9.250	0.00	0.23	0.155	IO				1.91
9.333	0.00	0.23	0.154	IO				1.90
9.417	0.00	0.23	0.152	IO				1.88
9.500	0.00	0.23	0.150	IO				1.86
9.583	0.00	0.23	0.149	IO				1.85
9.667	0.00	0.23	0.147	IO				1.83
9.750	0.00	0.23	0.146	IO				1.81
9.833	0.00	0.23	0.144	IO				1.80
9.917	0.00	0.23	0.142	IO				1.78
10.000	0.00	0.23	0.141	IO				1.76
10.083	0.00	0.23	0.139	IO				1.74
10.167	0.00	0.23	0.138	IO				1.73
10.250	0.00	0.23	0.136	IO				1.71
10.333	0.00	0.23	0.134	IO				1.69
10.417	0.00	0.23	0.133	IO				1.68
10.500	0.00	0.23	0.131	IO				1.66
10.583	0.00	0.23	0.130	IO				1.64
10.667	0.00	0.23	0.128	IO				1.63
10.750	0.00	0.23	0.127	IO				1.61
10.833	0.00	0.23	0.125	IO				1.59
10.917	0.00	0.23	0.123	IO				1.57
11.000	0.00	0.23	0.122	IO				1.56
11.083	0.00	0.23	0.120	IO				1.54
11.167	0.00	0.23	0.119	IO				1.52
11.250	0.00	0.23	0.117	IO				1.51
11.333	0.00	0.23	0.115	IO				1.49
11.417	0.00	0.23	0.114	IO				1.47
11.500	0.00	0.23	0.112	IO				1.46
11.583	0.00	0.23	0.111	IO				1.44
11.667	0.00	0.23	0.109	IO				1.42
11.750	0.00	0.23	0.108	IO				1.40
11.833	0.00	0.23	0.106	IO				1.39
11.917	0.00	0.23	0.104	IO				1.37
12.000	0.00	0.23	0.103	IO				1.35
12.083	0.00	0.23	0.101	IO				1.34
12.167	0.00	0.23	0.100	IO				1.32
12.250	0.00	0.23	0.098	IO				1.30
12.333	0.00	0.23	0.096	IO				1.28
12.417	0.00	0.23	0.095	IO				1.27
12.500	0.00	0.23	0.093	IO				1.25
12.583	0.00	0.23	0.092	IO				1.23
12.667	0.00	0.23	0.090	IO				1.22
12.750	0.00	0.23	0.089	IO				1.20
12.833	0.00	0.23	0.087	IO				1.18
12.917	0.00	0.23	0.085	IO				1.17
13.000	0.00	0.23	0.084	IO				1.15
13.083	0.00	0.23	0.082	IO				1.13
13.167	0.00	0.23	0.081	IO				1.11
13.250	0.00	0.23	0.079	IO				1.10
13.333	0.00	0.23	0.077	IO				1.08
13.417	0.00	0.23	0.076	IO				1.06
13.500	0.00	0.23	0.074	IO				1.05
13.583	0.00	0.23	0.073	IO				1.03
13.667	0.00	0.23	0.071	IO				1.01
13.750	0.00	0.23	0.070	IO				0.99
13.833	0.00	0.22	0.068	IO				0.97
13.917	0.00	0.22	0.066	IO				0.95

14.000	0.00	0.21	0.065	IO				0.93
14.083	0.00	0.21	0.064	IO				0.91
14.167	0.00	0.20	0.062	IO				0.89
14.250	0.00	0.20	0.061	IO				0.87
14.333	0.00	0.20	0.059	IO				0.85
14.417	0.00	0.19	0.058	IO				0.83
14.500	0.00	0.19	0.057	IO				0.81
14.583	0.00	0.18	0.055	IO				0.79
14.667	0.00	0.18	0.054	IO				0.77
14.750	0.00	0.17	0.053	IO				0.76
14.833	0.00	0.17	0.052	IO				0.74
14.917	0.00	0.17	0.051	IO				0.72
15.000	0.00	0.16	0.050	IO				0.71
15.083	0.00	0.16	0.048	IO				0.69
15.167	0.00	0.16	0.047	IO				0.68
15.250	0.00	0.15	0.046	IO				0.66
15.333	0.00	0.15	0.045	IO				0.65
15.417	0.00	0.15	0.044	IO				0.63
15.500	0.00	0.14	0.043	IO				0.62
15.583	0.00	0.14	0.042	IO				0.60
15.667	0.00	0.14	0.041	IO				0.59
15.750	0.00	0.13	0.040	IO				0.58
15.833	0.00	0.13	0.040	IO				0.56
15.917	0.00	0.13	0.039	IO				0.55
16.000	0.00	0.12	0.038	O				0.54
16.083	0.00	0.12	0.037	O				0.53
16.167	0.00	0.12	0.036	O				0.52
16.250	0.00	0.12	0.035	O				0.50
16.333	0.00	0.11	0.034	O				0.49
16.417	0.00	0.11	0.034	O				0.48
16.500	0.00	0.11	0.033	O				0.47
16.583	0.00	0.11	0.032	O				0.46
16.667	0.00	0.10	0.032	O				0.45
16.750	0.00	0.10	0.031	O				0.44
16.833	0.00	0.10	0.030	O				0.43
16.917	0.00	0.10	0.029	O				0.42
17.000	0.00	0.09	0.029	O				0.41
17.083	0.00	0.09	0.028	O				0.40
17.167	0.00	0.09	0.028	O				0.39
17.250	0.00	0.09	0.027	O				0.38
17.333	0.00	0.09	0.026	O				0.38
17.417	0.00	0.08	0.026	O				0.37
17.500	0.00	0.08	0.025	O				0.36
17.583	0.00	0.08	0.025	O				0.35
17.667	0.00	0.08	0.024	O				0.34
17.750	0.00	0.08	0.023	O				0.34
17.833	0.00	0.08	0.023	O				0.33
17.917	0.00	0.07	0.022	O				0.32
18.000	0.00	0.07	0.022	O				0.31
18.083	0.00	0.07	0.021	O				0.31
18.167	0.00	0.07	0.021	O				0.30
18.250	0.00	0.07	0.020	O				0.29
18.333	0.00	0.07	0.020	O				0.29
18.417	0.00	0.06	0.020	O				0.28
18.500	0.00	0.06	0.019	O				0.27
18.583	0.00	0.06	0.019	O				0.27
18.667	0.00	0.06	0.018	O				0.26
18.750	0.00	0.06	0.018	O				0.26
18.833	0.00	0.06	0.017	O				0.25
18.917	0.00	0.06	0.017	O				0.24

19.000	0.00	0.05	0.017	O	|	|	|	0.24
19.083	0.00	0.05	0.016	O	|	|	|	0.23
19.167	0.00	0.05	0.016	O	|	|	|	0.23
19.250	0.00	0.05	0.016	O	|	|	|	0.22
19.333	0.00	0.05	0.015	O	|	|	|	0.22
19.417	0.00	0.05	0.015	O	|	|	|	0.21
19.500	0.00	0.05	0.015	O	|	|	|	0.21
19.583	0.00	0.05	0.014	O	|	|	|	0.20
19.667	0.00	0.05	0.014	O	|	|	|	0.20
19.750	0.00	0.04	0.014	O	|	|	|	0.19
19.833	0.00	0.04	0.013	O	|	|	|	0.19
19.917	0.00	0.04	0.013	O	|	|	|	0.19
20.000	0.00	0.04	0.013	O	|	|	|	0.18
20.083	0.00	0.04	0.012	O	|	|	|	0.18
20.167	0.00	0.04	0.012	O	|	|	|	0.17
20.250	0.00	0.04	0.012	O	|	|	|	0.17
20.333	0.00	0.04	0.012	O	|	|	|	0.17
20.417	0.00	0.04	0.011	O	|	|	|	0.16
20.500	0.00	0.04	0.011	O	|	|	|	0.16
20.583	0.00	0.04	0.011	O	|	|	|	0.16
20.667	0.00	0.03	0.011	O	|	|	|	0.15
20.750	0.00	0.03	0.010	O	|	|	|	0.15
20.833	0.00	0.03	0.010	O	|	|	|	0.15
20.917	0.00	0.03	0.010	O	|	|	|	0.14
21.000	0.00	0.03	0.010	O	|	|	|	0.14
21.083	0.00	0.03	0.009	O	|	|	|	0.14
21.167	0.00	0.03	0.009	O	|	|	|	0.13
21.250	0.00	0.03	0.009	O	|	|	|	0.13
21.333	0.00	0.03	0.009	O	|	|	|	0.13
21.417	0.00	0.03	0.009	O	|	|	|	0.12
21.500	0.00	0.03	0.008	O	|	|	|	0.12
21.583	0.00	0.03	0.008	O	|	|	|	0.12
21.667	0.00	0.03	0.008	O	|	|	|	0.12
21.750	0.00	0.03	0.008	O	|	|	|	0.11
21.833	0.00	0.03	0.008	O	|	|	|	0.11
21.917	0.00	0.02	0.008	O	|	|	|	0.11
22.000	0.00	0.02	0.007	O	|	|	|	0.11
22.083	0.00	0.02	0.007	O	|	|	|	0.10
22.167	0.00	0.02	0.007	O	|	|	|	0.10
22.250	0.00	0.02	0.007	O	|	|	|	0.10
22.333	0.00	0.02	0.007	O	|	|	|	0.10
22.417	0.00	0.02	0.007	O	|	|	|	0.09
22.500	0.00	0.02	0.006	O	|	|	|	0.09
22.583	0.00	0.02	0.006	O	|	|	|	0.09
22.667	0.00	0.02	0.006	O	|	|	|	0.09
22.750	0.00	0.02	0.006	O	|	|	|	0.09
22.833	0.00	0.02	0.006	O	|	|	|	0.08
22.917	0.00	0.02	0.006	O	|	|	|	0.08
23.000	0.00	0.02	0.006	O	|	|	|	0.08
23.083	0.00	0.02	0.006	O	|	|	|	0.08
23.167	0.00	0.02	0.005	O	|	|	|	0.08
23.250	0.00	0.02	0.005	O	|	|	|	0.08
23.333	0.00	0.02	0.005	O	|	|	|	0.07
23.417	0.00	0.02	0.005	O	|	|	|	0.07
23.500	0.00	0.02	0.005	O	|	|	|	0.07
23.583	0.00	0.02	0.005	O	|	|	|	0.07
23.667	0.00	0.02	0.005	O	|	|	|	0.07
23.750	0.00	0.02	0.005	O	|	|	|	0.07
23.833	0.00	0.01	0.004	O	|	|	|	0.06
23.917	0.00	0.01	0.004	O	|	|	|	0.06

24.000	0.00	0.01	0.004	O	|	|	|	0.06
24.083	0.00	0.01	0.004	O	|	|	|	0.06
24.167	0.00	0.01	0.004	O	|	|	|	0.06
24.250	0.00	0.01	0.004	O	|	|	|	0.06
24.333	0.00	0.01	0.004	O	|	|	|	0.06
24.417	0.00	0.01	0.004	O	|	|	|	0.05
24.500	0.00	0.01	0.004	O	|	|	|	0.05
24.583	0.00	0.01	0.004	O	|	|	|	0.05
24.667	0.00	0.01	0.004	O	|	|	|	0.05
24.750	0.00	0.01	0.004	O	|	|	|	0.05
24.833	0.00	0.01	0.003	O	|	|	|	0.05
24.917	0.00	0.01	0.003	O	|	|	|	0.05
25.000	0.00	0.01	0.003	O	|	|	|	0.05
25.083	0.00	0.01	0.003	O	|	|	|	0.05
25.167	0.00	0.01	0.003	O	|	|	|	0.04
25.250	0.00	0.01	0.003	O	|	|	|	0.04
25.333	0.00	0.01	0.003	O	|	|	|	0.04
25.417	0.00	0.01	0.003	O	|	|	|	0.04
25.500	0.00	0.01	0.003	O	|	|	|	0.04
25.583	0.00	0.01	0.003	O	|	|	|	0.04
25.667	0.00	0.01	0.003	O	|	|	|	0.04
25.750	0.00	0.01	0.003	O	|	|	|	0.04
25.833	0.00	0.01	0.003	O	|	|	|	0.04
25.917	0.00	0.01	0.003	O	|	|	|	0.04
26.000	0.00	0.01	0.002	O	|	|	|	0.04
26.083	0.00	0.01	0.002	O	|	|	|	0.03
26.167	0.00	0.01	0.002	O	|	|	|	0.03
26.250	0.00	0.01	0.002	O	|	|	|	0.03
26.333	0.00	0.01	0.002	O	|	|	|	0.03
26.417	0.00	0.01	0.002	O	|	|	|	0.03
26.500	0.00	0.01	0.002	O	|	|	|	0.03
26.583	0.00	0.01	0.002	O	|	|	|	0.03
26.667	0.00	0.01	0.002	O	|	|	|	0.03
26.750	0.00	0.01	0.002	O	|	|	|	0.03
26.833	0.00	0.01	0.002	O	|	|	|	0.03
26.917	0.00	0.01	0.002	O	|	|	|	0.03
27.000	0.00	0.01	0.002	O	|	|	|	0.03
27.083	0.00	0.01	0.002	O	|	|	|	0.03
27.167	0.00	0.01	0.002	O	|	|	|	0.03
27.250	0.00	0.01	0.002	O	|	|	|	0.03
27.333	0.00	0.01	0.002	O	|	|	|	0.02
27.417	0.00	0.01	0.002	O	|	|	|	0.02
27.500	0.00	0.01	0.002	O	|	|	|	0.02
27.583	0.00	0.01	0.002	O	|	|	|	0.02
27.667	0.00	0.01	0.002	O	|	|	|	0.02
27.750	0.00	0.01	0.002	O	|	|	|	0.02
27.833	0.00	0.00	0.002	O	|	|	|	0.02
27.917	0.00	0.00	0.001	O	|	|	|	0.02
28.000	0.00	0.00	0.001	O	|	|	|	0.02
28.083	0.00	0.00	0.001	O	|	|	|	0.02
28.167	0.00	0.00	0.001	O	|	|	|	0.02
28.250	0.00	0.00	0.001	O	|	|	|	0.02
28.333	0.00	0.00	0.001	O	|	|	|	0.02
28.417	0.00	0.00	0.001	O	|	|	|	0.02
28.500	0.00	0.00	0.001	O	|	|	|	0.02
28.583	0.00	0.00	0.001	O	|	|	|	0.02
28.667	0.00	0.00	0.001	O	|	|	|	0.02
28.750	0.00	0.00	0.001	O	|	|	|	0.02
28.833	0.00	0.00	0.001	O	|	|	|	0.02
28.917	0.00	0.00	0.001	O	|	|	|	0.02

29.000	0.00	0.00	0.001	O	|	|	|	0.02
29.083	0.00	0.00	0.001	O	|	|	|	0.02
29.167	0.00	0.00	0.001	O	|	|	|	0.02
29.250	0.00	0.00	0.001	O	|	|	|	0.01
29.333	0.00	0.00	0.001	O	|	|	|	0.01
29.417	0.00	0.00	0.001	O	|	|	|	0.01
29.500	0.00	0.00	0.001	O	|	|	|	0.01
29.583	0.00	0.00	0.001	O	|	|	|	0.01
29.667	0.00	0.00	0.001	O	|	|	|	0.01
29.750	0.00	0.00	0.001	O	|	|	|	0.01
29.833	0.00	0.00	0.001	O	|	|	|	0.01
29.917	0.00	0.00	0.001	O	|	|	|	0.01
30.000	0.00	0.00	0.001	O	|	|	|	0.01
30.083	0.00	0.00	0.001	O	|	|	|	0.01
30.167	0.00	0.00	0.001	O	|	|	|	0.01
30.250	0.00	0.00	0.001	O	|	|	|	0.01
30.333	0.00	0.00	0.001	O	|	|	|	0.01
30.417	0.00	0.00	0.001	O	|	|	|	0.01
30.500	0.00	0.00	0.001	O	|	|	|	0.01
30.583	0.00	0.00	0.001	O	|	|	|	0.01
30.667	0.00	0.00	0.001	O	|	|	|	0.01
30.750	0.00	0.00	0.001	O	|	|	|	0.01
30.833	0.00	0.00	0.001	O	|	|	|	0.01
30.917	0.00	0.00	0.001	O	|	|	|	0.01
31.000	0.00	0.00	0.001	O	|	|	|	0.01
31.083	0.00	0.00	0.001	O	|	|	|	0.01
31.167	0.00	0.00	0.001	O	|	|	|	0.01
31.250	0.00	0.00	0.001	O	|	|	|	0.01
31.333	0.00	0.00	0.001	O	|	|	|	0.01
31.417	0.00	0.00	0.001	O	|	|	|	0.01
31.500	0.00	0.00	0.001	O	|	|	|	0.01
31.583	0.00	0.00	0.001	O	|	|	|	0.01
31.667	0.00	0.00	0.001	O	|	|	|	0.01
31.750	0.00	0.00	0.001	O	|	|	|	0.01
31.833	0.00	0.00	0.001	O	|	|	|	0.01
31.917	0.00	0.00	0.001	O	|	|	|	0.01
32.000	0.00	0.00	0.000	O	|	|	|	0.01
32.083	0.00	0.00	0.000	O	|	|	|	0.01
32.167	0.00	0.00	0.000	O	|	|	|	0.01
32.250	0.00	0.00	0.000	O	|	|	|	0.01
32.333	0.00	0.00	0.000	O	|	|	|	0.01
32.417	0.00	0.00	0.000	O	|	|	|	0.01
32.500	0.00	0.00	0.000	O	|	|	|	0.01
32.583	0.00	0.00	0.000	O	|	|	|	0.01
32.667	0.00	0.00	0.000	O	|	|	|	0.01
32.750	0.00	0.00	0.000	O	|	|	|	0.01
32.833	0.00	0.00	0.000	O	|	|	|	0.01
32.917	0.00	0.00	0.000	O	|	|	|	0.01
33.000	0.00	0.00	0.000	O	|	|	|	0.01
33.083	0.00	0.00	0.000	O	|	|	|	0.01
33.167	0.00	0.00	0.000	O	|	|	|	0.01
33.250	0.00	0.00	0.000	O	|	|	|	0.00
33.333	0.00	0.00	0.000	O	|	|	|	0.00
33.417	0.00	0.00	0.000	O	|	|	|	0.00
33.500	0.00	0.00	0.000	O	|	|	|	0.00
33.583	0.00	0.00	0.000	O	|	|	|	0.00
33.667	0.00	0.00	0.000	O	|	|	|	0.00
33.750	0.00	0.00	0.000	O	|	|	|	0.00
33.833	0.00	0.00	0.000	O	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 406
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.316 (CFS)
Total volume = 0.319 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
2-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 72
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 3.329 (CFS)
Total volume = 0.395 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 72
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 0.8 1.66 2.50 3.33	Depth (Ft.)
0.083	0.29	0.00	0.001	O I | | | |	0.01
0.167	0.34	0.01	0.003	O I | | | |	0.04
0.250	0.34	0.02	0.005	O I | | | |	0.08
0.333	0.34	0.02	0.008	O I | | | |	0.11
0.417	0.34	0.03	0.010	O I | | | |	0.14
0.500	0.40	0.04	0.012	O I | | | |	0.17
0.583	0.40	0.05	0.015	O I | | | |	0.21
0.667	0.40	0.06	0.017	O I | | | |	0.24
0.750	0.40	0.06	0.019	O I | | | |	0.28
0.833	0.40	0.07	0.022	O I | | | |	0.31
0.917	0.40	0.08	0.024	O I | | | |	0.34
1.000	0.46	0.09	0.026	O I | | | |	0.37
1.083	0.46	0.09	0.029	O I | | | |	0.41
1.167	0.46	0.10	0.031	O I | | | |	0.45
1.250	0.46	0.11	0.034	|O I | | | |	0.48
1.333	0.46	0.12	0.036	|O I | | | |	0.51
1.417	0.46	0.13	0.038	|O I | | | |	0.55
1.500	0.46	0.13	0.041	|O I | | | |	0.58
1.583	0.46	0.14	0.043	|O I | | | |	0.61
1.667	0.46	0.15	0.045	|O I | | | |	0.64
1.750	0.46	0.15	0.047	|O I | | | |	0.67
1.833	0.46	0.16	0.049	|O I | | | |	0.70
1.917	0.46	0.17	0.051	|O I | | | |	0.73
2.000	0.52	0.18	0.053	|O I | | | |	0.76
2.083	0.46	0.18	0.055	|O I | | | |	0.79
2.167	0.52	0.19	0.058	|O I | | | |	0.82
2.250	0.52	0.20	0.060	|O I | | | |	0.85
2.333	0.52	0.20	0.062	|O I | | | |	0.88
2.417	0.52	0.21	0.064	| O I | | | |	0.91
2.500	0.52	0.22	0.066	| O I | | | |	0.94
2.583	0.52	0.22	0.068	| O I | | | |	0.97
2.667	0.52	0.23	0.070	| O I | | | |	1.00
2.750	0.57	0.23	0.072	| O I | | | |	1.02
2.833	0.57	0.23	0.075	| O I | | | |	1.05
2.917	0.57	0.23	0.077	| O I | | | |	1.08
3.000	0.57	0.23	0.079	| O I | | | |	1.10
3.083	0.57	0.23	0.082	| O I | | | |	1.13
3.167	0.63	0.23	0.084	| O I | | | |	1.15
3.250	0.63	0.23	0.087	| O I | | | |	1.18
3.333	0.63	0.23	0.090	| O I | | | |	1.21
3.417	0.69	0.23	0.093	| O I | | | |	1.24
3.500	0.74	0.23	0.096	| O I| | | |	1.28
3.583	0.80	0.23	0.100	| O I| | | |	1.32
3.667	0.80	0.23	0.104	| O I| | | |	1.36
3.750	0.86	0.23	0.108	| O I | | |	1.41
3.833	0.86	0.23	0.112	| O I | | |	1.45
3.917	0.92	0.23	0.117	| O I | | |	1.50

4.000	0.92	0.23	0.121	O	I			1.55
4.083	0.97	0.23	0.126	O	I			1.61
4.167	1.03	0.23	0.132	O	I			1.66
4.250	1.09	0.23	0.137	O	I			1.72
4.333	1.14	0.23	0.144	O	I			1.79
4.417	1.20	0.23	0.150	O	I			1.86
4.500	1.20	0.23	0.157	O	I			1.93
4.583	1.26	0.23	0.164	O	I			2.01
4.667	1.32	0.23	0.171	O	I			2.07
4.750	1.37	0.23	0.179	O	I			2.15
4.833	1.37	0.23	0.186	O	I			2.22
4.917	1.43	0.23	0.195	O	I			2.30
5.000	1.49	0.23	0.203	O	I			2.38
5.083	1.77	0.23	0.213	O	I			2.47
5.167	2.06	0.23	0.224	O	I			2.58
5.250	2.23	0.23	0.237	O	I			2.70
5.333	2.40	0.23	0.252	O	I			2.84
5.417	2.70	0.23	0.268	O	I			2.99
5.500	3.33	0.53	0.286	O			I	3.15
5.583	1.09	0.72	0.297	O	I			3.25
5.667	0.52	0.73	0.297	I O				3.26
5.750	0.34	0.69	0.296	I O				3.24
5.833	0.29	0.65	0.293	I O				3.22
5.917	0.17	0.60	0.290	I O				3.19
6.000	0.11	0.55	0.287	I O				3.17
6.083	0.00	0.49	0.284	I O				3.14
6.167	0.00	0.44	0.281	I O				3.11
6.250	0.00	0.39	0.278	I O				3.08
6.333	0.00	0.34	0.276	I O				3.06
6.417	0.00	0.31	0.273	I O				3.04
6.500	0.00	0.27	0.271	I O				3.02
6.583	0.00	0.24	0.270	I O				3.01
6.667	0.00	0.23	0.268	I O				2.99
6.750	0.00	0.23	0.266	I O				2.98
6.833	0.00	0.23	0.265	I O				2.96
6.917	0.00	0.23	0.263	I O				2.95
7.000	0.00	0.23	0.262	I O				2.93
7.083	0.00	0.23	0.260	I O				2.92
7.167	0.00	0.23	0.258	I O				2.90
7.250	0.00	0.23	0.257	I O				2.89
7.333	0.00	0.23	0.255	I O				2.87
7.417	0.00	0.23	0.254	I O				2.86
7.500	0.00	0.23	0.252	I O				2.84
7.583	0.00	0.23	0.251	I O				2.83
7.667	0.00	0.23	0.249	I O				2.81
7.750	0.00	0.23	0.247	I O				2.80
7.833	0.00	0.23	0.246	I O				2.78
7.917	0.00	0.23	0.244	I O				2.77
8.000	0.00	0.23	0.243	I O				2.75
8.083	0.00	0.23	0.241	I O				2.74
8.167	0.00	0.23	0.239	I O				2.72
8.250	0.00	0.23	0.238	I O				2.71
8.333	0.00	0.23	0.236	I O				2.69
8.417	0.00	0.23	0.235	I O				2.68
8.500	0.00	0.23	0.233	I O				2.66
8.583	0.00	0.23	0.232	I O				2.65
8.667	0.00	0.23	0.230	I O				2.63
8.750	0.00	0.23	0.228	I O				2.62
8.833	0.00	0.23	0.227	I O				2.60
8.917	0.00	0.23	0.225	I O				2.59

9.000	0.00	0.23	0.224	I O	|	|	|	|	2.57
9.083	0.00	0.23	0.222	I O	|	|	|	|	2.56
9.167	0.00	0.23	0.220	I O	|	|	|	|	2.54
9.250	0.00	0.23	0.219	I O	|	|	|	|	2.53
9.333	0.00	0.23	0.217	I O	|	|	|	|	2.51
9.417	0.00	0.23	0.216	I O	|	|	|	|	2.50
9.500	0.00	0.23	0.214	I O	|	|	|	|	2.48
9.583	0.00	0.23	0.213	I O	|	|	|	|	2.47
9.667	0.00	0.23	0.211	I O	|	|	|	|	2.45
9.750	0.00	0.23	0.209	I O	|	|	|	|	2.44
9.833	0.00	0.23	0.208	I O	|	|	|	|	2.42
9.917	0.00	0.23	0.206	I O	|	|	|	|	2.41
10.000	0.00	0.23	0.205	I O	|	|	|	|	2.39
10.083	0.00	0.23	0.203	I O	|	|	|	|	2.38
10.167	0.00	0.23	0.201	I O	|	|	|	|	2.36
10.250	0.00	0.23	0.200	I O	|	|	|	|	2.35
10.333	0.00	0.23	0.198	I O	|	|	|	|	2.33
10.417	0.00	0.23	0.197	I O	|	|	|	|	2.32
10.500	0.00	0.23	0.195	I O	|	|	|	|	2.30
10.583	0.00	0.23	0.194	I O	|	|	|	|	2.29
10.667	0.00	0.23	0.192	I O	|	|	|	|	2.27
10.750	0.00	0.23	0.190	I O	|	|	|	|	2.26
10.833	0.00	0.23	0.189	I O	|	|	|	|	2.24
10.917	0.00	0.23	0.187	I O	|	|	|	|	2.23
11.000	0.00	0.23	0.186	I O	|	|	|	|	2.21
11.083	0.00	0.23	0.184	I O	|	|	|	|	2.20
11.167	0.00	0.23	0.182	I O	|	|	|	|	2.18
11.250	0.00	0.23	0.181	I O	|	|	|	|	2.17
11.333	0.00	0.23	0.179	I O	|	|	|	|	2.15
11.417	0.00	0.23	0.178	I O	|	|	|	|	2.14
11.500	0.00	0.23	0.176	I O	|	|	|	|	2.12
11.583	0.00	0.23	0.175	I O	|	|	|	|	2.11
11.667	0.00	0.23	0.173	I O	|	|	|	|	2.09
11.750	0.00	0.23	0.171	I O	|	|	|	|	2.08
11.833	0.00	0.23	0.170	I O	|	|	|	|	2.06
11.917	0.00	0.23	0.168	I O	|	|	|	|	2.05
12.000	0.00	0.23	0.167	I O	|	|	|	|	2.03
12.083	0.00	0.23	0.165	I O	|	|	|	|	2.02
12.167	0.00	0.23	0.163	I O	|	|	|	|	2.00
12.250	0.00	0.23	0.162	I O	|	|	|	|	1.99
12.333	0.00	0.23	0.160	I O	|	|	|	|	1.97
12.417	0.00	0.23	0.159	I O	|	|	|	|	1.95
12.500	0.00	0.23	0.157	I O	|	|	|	|	1.94
12.583	0.00	0.23	0.156	I O	|	|	|	|	1.92
12.667	0.00	0.23	0.154	I O	|	|	|	|	1.90
12.750	0.00	0.23	0.152	I O	|	|	|	|	1.89
12.833	0.00	0.23	0.151	I O	|	|	|	|	1.87
12.917	0.00	0.23	0.149	I O	|	|	|	|	1.85
13.000	0.00	0.23	0.148	I O	|	|	|	|	1.83
13.083	0.00	0.23	0.146	I O	|	|	|	|	1.82
13.167	0.00	0.23	0.144	I O	|	|	|	|	1.80
13.250	0.00	0.23	0.143	I O	|	|	|	|	1.78
13.333	0.00	0.23	0.141	I O	|	|	|	|	1.77
13.417	0.00	0.23	0.140	I O	|	|	|	|	1.75
13.500	0.00	0.23	0.138	I O	|	|	|	|	1.73
13.583	0.00	0.23	0.136	I O	|	|	|	|	1.71
13.667	0.00	0.23	0.135	I O	|	|	|	|	1.70
13.750	0.00	0.23	0.133	I O	|	|	|	|	1.68
13.833	0.00	0.23	0.132	I O	|	|	|	|	1.66
13.917	0.00	0.23	0.130	I O	|	|	|	|	1.65

14.000	0.00	0.23	0.129	I O	|	|	|	1.63
14.083	0.00	0.23	0.127	I O	|	|	|	1.61
14.167	0.00	0.23	0.125	I O	|	|	|	1.60
14.250	0.00	0.23	0.124	I O	|	|	|	1.58
14.333	0.00	0.23	0.122	I O	|	|	|	1.56
14.417	0.00	0.23	0.121	I O	|	|	|	1.54
14.500	0.00	0.23	0.119	I O	|	|	|	1.53
14.583	0.00	0.23	0.117	I O	|	|	|	1.51
14.667	0.00	0.23	0.116	I O	|	|	|	1.49
14.750	0.00	0.23	0.114	I O	|	|	|	1.48
14.833	0.00	0.23	0.113	I O	|	|	|	1.46
14.917	0.00	0.23	0.111	I O	|	|	|	1.44
15.000	0.00	0.23	0.110	I O	|	|	|	1.43
15.083	0.00	0.23	0.108	I O	|	|	|	1.41
15.167	0.00	0.23	0.106	I O	|	|	|	1.39
15.250	0.00	0.23	0.105	I O	|	|	|	1.37
15.333	0.00	0.23	0.103	I O	|	|	|	1.36
15.417	0.00	0.23	0.102	I O	|	|	|	1.34
15.500	0.00	0.23	0.100	I O	|	|	|	1.32
15.583	0.00	0.23	0.098	I O	|	|	|	1.31
15.667	0.00	0.23	0.097	I O	|	|	|	1.29
15.750	0.00	0.23	0.095	I O	|	|	|	1.27
15.833	0.00	0.23	0.094	I O	|	|	|	1.26
15.917	0.00	0.23	0.092	I O	|	|	|	1.24
16.000	0.00	0.23	0.091	I O	|	|	|	1.22
16.083	0.00	0.23	0.089	I O	|	|	|	1.20
16.167	0.00	0.23	0.087	I O	|	|	|	1.19
16.250	0.00	0.23	0.086	I O	|	|	|	1.17
16.333	0.00	0.23	0.084	I O	|	|	|	1.15
16.417	0.00	0.23	0.083	I O	|	|	|	1.14
16.500	0.00	0.23	0.081	I O	|	|	|	1.12
16.583	0.00	0.23	0.079	I O	|	|	|	1.10
16.667	0.00	0.23	0.078	I O	|	|	|	1.08
16.750	0.00	0.23	0.076	I O	|	|	|	1.07
16.833	0.00	0.23	0.075	I O	|	|	|	1.05
16.917	0.00	0.23	0.073	I O	|	|	|	1.03
17.000	0.00	0.23	0.072	I O	|	|	|	1.02
17.083	0.00	0.23	0.070	I O	|	|	|	1.00
17.167	0.00	0.22	0.068	I O	|	|	|	0.98
17.250	0.00	0.22	0.067	I O	|	|	|	0.96
17.333	0.00	0.21	0.065	I O	|	|	|	0.93
17.417	0.00	0.21	0.064	I O	|	|	|	0.91
17.500	0.00	0.21	0.062	IO	|	|	|	0.89
17.583	0.00	0.20	0.061	IO	|	|	|	0.87
17.667	0.00	0.20	0.060	IO	|	|	|	0.85
17.750	0.00	0.19	0.058	IO	|	|	|	0.83
17.833	0.00	0.19	0.057	IO	|	|	|	0.82
17.917	0.00	0.18	0.056	IO	|	|	|	0.80
18.000	0.00	0.18	0.055	IO	|	|	|	0.78
18.083	0.00	0.18	0.053	IO	|	|	|	0.76
18.167	0.00	0.17	0.052	IO	|	|	|	0.74
18.250	0.00	0.17	0.051	IO	|	|	|	0.73
18.333	0.00	0.16	0.050	IO	|	|	|	0.71
18.417	0.00	0.16	0.049	IO	|	|	|	0.70
18.500	0.00	0.16	0.048	IO	|	|	|	0.68
18.583	0.00	0.15	0.047	IO	|	|	|	0.67
18.667	0.00	0.15	0.046	IO	|	|	|	0.65
18.750	0.00	0.15	0.044	IO	|	|	|	0.64
18.833	0.00	0.14	0.044	IO	|	|	|	0.62
18.917	0.00	0.14	0.043	IO	|	|	|	0.61

19.000	0.00	0.14	0.042	IO				0.59
19.083	0.00	0.13	0.041	IO				0.58
19.167	0.00	0.13	0.040	IO				0.57
19.250	0.00	0.13	0.039	IO				0.55
19.333	0.00	0.12	0.038	IO				0.54
19.417	0.00	0.12	0.037	IO				0.53
19.500	0.00	0.12	0.036	IO				0.52
19.583	0.00	0.12	0.035	IO				0.51
19.667	0.00	0.11	0.035	IO				0.50
19.750	0.00	0.11	0.034	IO				0.48
19.833	0.00	0.11	0.033	IO				0.47
19.917	0.00	0.11	0.032	IO				0.46
20.000	0.00	0.10	0.032	IO				0.45
20.083	0.00	0.10	0.031	O				0.44
20.167	0.00	0.10	0.030	O				0.43
20.250	0.00	0.10	0.030	O				0.42
20.333	0.00	0.10	0.029	O				0.41
20.417	0.00	0.09	0.028	O				0.40
20.500	0.00	0.09	0.028	O				0.40
20.583	0.00	0.09	0.027	O				0.39
20.667	0.00	0.09	0.026	O				0.38
20.750	0.00	0.08	0.026	O				0.37
20.833	0.00	0.08	0.025	O				0.36
20.917	0.00	0.08	0.025	O				0.35
21.000	0.00	0.08	0.024	O				0.35
21.083	0.00	0.08	0.024	O				0.34
21.167	0.00	0.08	0.023	O				0.33
21.250	0.00	0.07	0.023	O				0.32
21.333	0.00	0.07	0.022	O				0.32
21.417	0.00	0.07	0.022	O				0.31
21.500	0.00	0.07	0.021	O				0.30
21.583	0.00	0.07	0.021	O				0.29
21.667	0.00	0.07	0.020	O				0.29
21.750	0.00	0.06	0.020	O				0.28
21.833	0.00	0.06	0.019	O				0.28
21.917	0.00	0.06	0.019	O				0.27
22.000	0.00	0.06	0.018	O				0.26
22.083	0.00	0.06	0.018	O				0.26
22.167	0.00	0.06	0.018	O				0.25
22.250	0.00	0.06	0.017	O				0.25
22.333	0.00	0.06	0.017	O				0.24
22.417	0.00	0.05	0.016	O				0.23
22.500	0.00	0.05	0.016	O				0.23
22.583	0.00	0.05	0.016	O				0.22
22.667	0.00	0.05	0.015	O				0.22
22.750	0.00	0.05	0.015	O				0.21
22.833	0.00	0.05	0.015	O				0.21
22.917	0.00	0.05	0.014	O				0.21
23.000	0.00	0.05	0.014	O				0.20
23.083	0.00	0.05	0.014	O				0.20
23.167	0.00	0.04	0.013	O				0.19
23.250	0.00	0.04	0.013	O				0.19
23.333	0.00	0.04	0.013	O				0.18
23.417	0.00	0.04	0.013	O				0.18
23.500	0.00	0.04	0.012	O				0.17
23.583	0.00	0.04	0.012	O				0.17
23.667	0.00	0.04	0.012	O				0.17
23.750	0.00	0.04	0.011	O				0.16
23.833	0.00	0.04	0.011	O				0.16
23.917	0.00	0.04	0.011	O				0.16

24.000	0.00	0.04	0.011	O					0.15
24.083	0.00	0.03	0.010	O					0.15
24.167	0.00	0.03	0.010	O					0.15
24.250	0.00	0.03	0.010	O					0.14
24.333	0.00	0.03	0.010	O					0.14
24.417	0.00	0.03	0.010	O					0.14
24.500	0.00	0.03	0.009	O					0.13
24.583	0.00	0.03	0.009	O					0.13
24.667	0.00	0.03	0.009	O					0.13
24.750	0.00	0.03	0.009	O					0.12
24.833	0.00	0.03	0.009	O					0.12
24.917	0.00	0.03	0.008	O					0.12
25.000	0.00	0.03	0.008	O					0.12
25.083	0.00	0.03	0.008	O					0.11
25.167	0.00	0.03	0.008	O					0.11
25.250	0.00	0.03	0.008	O					0.11
25.333	0.00	0.02	0.007	O					0.11
25.417	0.00	0.02	0.007	O					0.10
25.500	0.00	0.02	0.007	O					0.10
25.583	0.00	0.02	0.007	O					0.10
25.667	0.00	0.02	0.007	O					0.10
25.750	0.00	0.02	0.007	O					0.09
25.833	0.00	0.02	0.007	O					0.09
25.917	0.00	0.02	0.006	O					0.09
26.000	0.00	0.02	0.006	O					0.09
26.083	0.00	0.02	0.006	O					0.09
26.167	0.00	0.02	0.006	O					0.08
26.250	0.00	0.02	0.006	O					0.08
26.333	0.00	0.02	0.006	O					0.08
26.417	0.00	0.02	0.006	O					0.08
26.500	0.00	0.02	0.005	O					0.08
26.583	0.00	0.02	0.005	O					0.08
26.667	0.00	0.02	0.005	O					0.07
26.750	0.00	0.02	0.005	O					0.07
26.833	0.00	0.02	0.005	O					0.07
26.917	0.00	0.02	0.005	O					0.07
27.000	0.00	0.02	0.005	O					0.07
27.083	0.00	0.02	0.005	O					0.07
27.167	0.00	0.01	0.005	O					0.06
27.250	0.00	0.01	0.004	O					0.06
27.333	0.00	0.01	0.004	O					0.06
27.417	0.00	0.01	0.004	O					0.06
27.500	0.00	0.01	0.004	O					0.06
27.583	0.00	0.01	0.004	O					0.06
27.667	0.00	0.01	0.004	O					0.06
27.750	0.00	0.01	0.004	O					0.06
27.833	0.00	0.01	0.004	O					0.05
27.917	0.00	0.01	0.004	O					0.05
28.000	0.00	0.01	0.004	O					0.05
28.083	0.00	0.01	0.004	O					0.05
28.167	0.00	0.01	0.003	O					0.05
28.250	0.00	0.01	0.003	O					0.05
28.333	0.00	0.01	0.003	O					0.05
28.417	0.00	0.01	0.003	O					0.05
28.500	0.00	0.01	0.003	O					0.05
28.583	0.00	0.01	0.003	O					0.04
28.667	0.00	0.01	0.003	O					0.04
28.750	0.00	0.01	0.003	O					0.04
28.833	0.00	0.01	0.003	O					0.04
28.917	0.00	0.01	0.003	O					0.04

29.000	0.00	0.01	0.003	O	|	|	|	0.04
29.083	0.00	0.01	0.003	O	|	|	|	0.04
29.167	0.00	0.01	0.003	O	|	|	|	0.04
29.250	0.00	0.01	0.003	O	|	|	|	0.04
29.333	0.00	0.01	0.003	O	|	|	|	0.04
29.417	0.00	0.01	0.002	O	|	|	|	0.04
29.500	0.00	0.01	0.002	O	|	|	|	0.03
29.583	0.00	0.01	0.002	O	|	|	|	0.03
29.667	0.00	0.01	0.002	O	|	|	|	0.03
29.750	0.00	0.01	0.002	O	|	|	|	0.03
29.833	0.00	0.01	0.002	O	|	|	|	0.03
29.917	0.00	0.01	0.002	O	|	|	|	0.03
30.000	0.00	0.01	0.002	O	|	|	|	0.03
30.083	0.00	0.01	0.002	O	|	|	|	0.03
30.167	0.00	0.01	0.002	O	|	|	|	0.03
30.250	0.00	0.01	0.002	O	|	|	|	0.03
30.333	0.00	0.01	0.002	O	|	|	|	0.03
30.417	0.00	0.01	0.002	O	|	|	|	0.03
30.500	0.00	0.01	0.002	O	|	|	|	0.03
30.583	0.00	0.01	0.002	O	|	|	|	0.03
30.667	0.00	0.01	0.002	O	|	|	|	0.02
30.750	0.00	0.01	0.002	O	|	|	|	0.02
30.833	0.00	0.01	0.002	O	|	|	|	0.02
30.917	0.00	0.01	0.002	O	|	|	|	0.02
31.000	0.00	0.01	0.002	O	|	|	|	0.02
31.083	0.00	0.01	0.002	O	|	|	|	0.02
31.167	0.00	0.01	0.002	O	|	|	|	0.02
31.250	0.00	0.00	0.001	O	|	|	|	0.02
31.333	0.00	0.00	0.001	O	|	|	|	0.02
31.417	0.00	0.00	0.001	O	|	|	|	0.02
31.500	0.00	0.00	0.001	O	|	|	|	0.02
31.583	0.00	0.00	0.001	O	|	|	|	0.02
31.667	0.00	0.00	0.001	O	|	|	|	0.02
31.750	0.00	0.00	0.001	O	|	|	|	0.02
31.833	0.00	0.00	0.001	O	|	|	|	0.02
31.917	0.00	0.00	0.001	O	|	|	|	0.02
32.000	0.00	0.00	0.001	O	|	|	|	0.02
32.083	0.00	0.00	0.001	O	|	|	|	0.02
32.167	0.00	0.00	0.001	O	|	|	|	0.02
32.250	0.00	0.00	0.001	O	|	|	|	0.02
32.333	0.00	0.00	0.001	O	|	|	|	0.02
32.417	0.00	0.00	0.001	O	|	|	|	0.02
32.500	0.00	0.00	0.001	O	|	|	|	0.02
32.583	0.00	0.00	0.001	O	|	|	|	0.01
32.667	0.00	0.00	0.001	O	|	|	|	0.01
32.750	0.00	0.00	0.001	O	|	|	|	0.01
32.833	0.00	0.00	0.001	O	|	|	|	0.01
32.917	0.00	0.00	0.001	O	|	|	|	0.01
33.000	0.00	0.00	0.001	O	|	|	|	0.01
33.083	0.00	0.00	0.001	O	|	|	|	0.01
33.167	0.00	0.00	0.001	O	|	|	|	0.01
33.250	0.00	0.00	0.001	O	|	|	|	0.01
33.333	0.00	0.00	0.001	O	|	|	|	0.01
33.417	0.00	0.00	0.001	O	|	|	|	0.01
33.500	0.00	0.00	0.001	O	|	|	|	0.01
33.583	0.00	0.00	0.001	O	|	|	|	0.01
33.667	0.00	0.00	0.001	O	|	|	|	0.01
33.750	0.00	0.00	0.001	O	|	|	|	0.01
33.833	0.00	0.00	0.001	O	|	|	|	0.01
33.917	0.00	0.00	0.001	O	|	|	|	0.01

34.000	0.00	0.00	0.001	O	|	|	|	|	0.01
34.083	0.00	0.00	0.001	O	|	|	|	|	0.01
34.167	0.00	0.00	0.001	O	|	|	|	|	0.01
34.250	0.00	0.00	0.001	O	|	|	|	|	0.01
34.333	0.00	0.00	0.001	O	|	|	|	|	0.01
34.417	0.00	0.00	0.001	O	|	|	|	|	0.01
34.500	0.00	0.00	0.001	O	|	|	|	|	0.01
34.583	0.00	0.00	0.001	O	|	|	|	|	0.01
34.667	0.00	0.00	0.001	O	|	|	|	|	0.01
34.750	0.00	0.00	0.001	O	|	|	|	|	0.01
34.833	0.00	0.00	0.001	O	|	|	|	|	0.01
34.917	0.00	0.00	0.001	O	|	|	|	|	0.01
35.000	0.00	0.00	0.001	O	|	|	|	|	0.01
35.083	0.00	0.00	0.001	O	|	|	|	|	0.01
35.167	0.00	0.00	0.001	O	|	|	|	|	0.01
35.250	0.00	0.00	0.001	O	|	|	|	|	0.01
35.333	0.00	0.00	0.000	O	|	|	|	|	0.01
35.417	0.00	0.00	0.000	O	|	|	|	|	0.01
35.500	0.00	0.00	0.000	O	|	|	|	|	0.01
35.583	0.00	0.00	0.000	O	|	|	|	|	0.01
35.667	0.00	0.00	0.000	O	|	|	|	|	0.01
35.750	0.00	0.00	0.000	O	|	|	|	|	0.01
35.833	0.00	0.00	0.000	O	|	|	|	|	0.01
35.917	0.00	0.00	0.000	O	|	|	|	|	0.01
36.000	0.00	0.00	0.000	O	|	|	|	|	0.01
36.083	0.00	0.00	0.000	O	|	|	|	|	0.01
36.167	0.00	0.00	0.000	O	|	|	|	|	0.01
36.250	0.00	0.00	0.000	O	|	|	|	|	0.01
36.333	0.00	0.00	0.000	O	|	|	|	|	0.01
36.417	0.00	0.00	0.000	O	|	|	|	|	0.01
36.500	0.00	0.00	0.000	O	|	|	|	|	0.01
36.583	0.00	0.00	0.000	O	|	|	|	|	0.01
36.667	0.00	0.00	0.000	O	|	|	|	|	0.00
36.750	0.00	0.00	0.000	O	|	|	|	|	0.00
36.833	0.00	0.00	0.000	O	|	|	|	|	0.00
36.917	0.00	0.00	0.000	O	|	|	|	|	0.00
37.000	0.00	0.00	0.000	O	|	|	|	|	0.00
37.083	0.00	0.00	0.000	O	|	|	|	|	0.00
37.167	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 446
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.727 (CFS)
Total volume = 0.395 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
2-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 288
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.038 (CFS)
Total volume = 0.631 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 288
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 0.3 0.52 0.78 1.04	Depth (Ft.)
0.083	0.06	0.00	0.000	OI | | | |	0.00
0.167	0.06	0.00	0.001	OI | | | |	0.01
0.250	0.06	0.00	0.001	OI | | | |	0.01
0.333	0.09	0.00	0.002	O I | | | |	0.02
0.417	0.09	0.01	0.002	O I | | | |	0.03
0.500	0.09	0.01	0.003	O I | | | |	0.04
0.583	0.09	0.01	0.003	O I | | | |	0.05
0.667	0.09	0.01	0.004	O I | | | |	0.05
0.750	0.09	0.01	0.004	O I | | | |	0.06
0.833	0.12	0.02	0.005	O I | | | |	0.07
0.917	0.12	0.02	0.006	O I | | | |	0.08
1.000	0.12	0.02	0.006	O I | | | |	0.09
1.083	0.09	0.02	0.007	O I | | | |	0.10
1.167	0.09	0.02	0.007	O I | | | |	0.11
1.250	0.09	0.03	0.008	O I | | | |	0.11
1.333	0.09	0.03	0.008	O I | | | |	0.12
1.417	0.09	0.03	0.009	O I | | | |	0.13
1.500	0.09	0.03	0.009	O I | | | |	0.13
1.583	0.09	0.03	0.010	O I | | | |	0.14
1.667	0.09	0.03	0.010	|OI | | | |	0.14
1.750	0.09	0.03	0.010	|OI | | | |	0.15
1.833	0.12	0.04	0.011	|O I | | | |	0.16
1.917	0.12	0.04	0.012	|O I | | | |	0.16
2.000	0.12	0.04	0.012	|O I | | | |	0.17
2.083	0.12	0.04	0.013	|O I | | | |	0.18
2.167	0.12	0.04	0.013	|O I | | | |	0.19
2.250	0.12	0.05	0.014	|O I | | | |	0.20
2.333	0.12	0.05	0.014	|O I | | | |	0.20
2.417	0.12	0.05	0.015	|O I | | | |	0.21
2.500	0.12	0.05	0.015	|O I | | | |	0.22
2.583	0.15	0.05	0.016	|O I | | | |	0.23
2.667	0.15	0.05	0.017	|O I | | | |	0.24
2.750	0.15	0.06	0.017	|O I | | | |	0.25
2.833	0.15	0.06	0.018	|O I | | | |	0.26
2.917	0.15	0.06	0.019	|O I | | | |	0.26
3.000	0.15	0.06	0.019	|O I | | | |	0.27
3.083	0.15	0.06	0.020	| O I | | | |	0.28
3.167	0.15	0.07	0.020	| O I | | | |	0.29
3.250	0.15	0.07	0.021	| O I | | | |	0.30
3.333	0.15	0.07	0.022	| O I | | | |	0.31
3.417	0.15	0.07	0.022	| O I | | | |	0.32
3.500	0.15	0.07	0.023	| O I | | | |	0.32
3.583	0.15	0.08	0.023	| O I | | | |	0.33
3.667	0.15	0.08	0.024	| O I | | | |	0.34
3.750	0.15	0.08	0.024	| O I | | | |	0.35
3.833	0.18	0.08	0.025	| O I | | | |	0.35
3.917	0.18	0.08	0.025	| O I | | | |	0.36

4.000	0.18	0.09	0.026	O I				0.37
4.083	0.18	0.09	0.027	O I				0.38
4.167	0.18	0.09	0.027	O I				0.39
4.250	0.18	0.09	0.028	O I				0.40
4.333	0.21	0.09	0.029	O I				0.41
4.417	0.21	0.10	0.030	O I				0.42
4.500	0.21	0.10	0.030	O I				0.43
4.583	0.21	0.10	0.031	O I				0.45
4.667	0.21	0.10	0.032	O I				0.46
4.750	0.21	0.11	0.033	O I				0.47
4.833	0.24	0.11	0.034	O I				0.48
4.917	0.24	0.11	0.034	O I				0.49
5.000	0.24	0.12	0.035	O I				0.50
5.083	0.18	0.12	0.036	O I				0.51
5.167	0.18	0.12	0.036	O I				0.52
5.250	0.18	0.12	0.037	O I				0.53
5.333	0.21	0.12	0.037	O I				0.53
5.417	0.21	0.12	0.038	O I				0.54
5.500	0.21	0.13	0.039	O I				0.55
5.583	0.24	0.13	0.039	O I				0.56
5.667	0.24	0.13	0.040	O I				0.57
5.750	0.24	0.13	0.041	O I				0.58
5.833	0.24	0.14	0.042	O I				0.59
5.917	0.24	0.14	0.042	O I				0.60
6.000	0.24	0.14	0.043	O I				0.62
6.083	0.27	0.14	0.044	O I				0.63
6.167	0.27	0.15	0.045	O I				0.64
6.250	0.27	0.15	0.046	O I				0.65
6.333	0.27	0.15	0.046	O I				0.66
6.417	0.27	0.16	0.047	O I				0.68
6.500	0.27	0.16	0.048	O I				0.69
6.583	0.31	0.16	0.049	O I				0.70
6.667	0.31	0.16	0.050	O I				0.71
6.750	0.31	0.17	0.051	O I				0.73
6.833	0.31	0.17	0.052	O I				0.74
6.917	0.31	0.17	0.053	O I				0.75
7.000	0.31	0.18	0.054	O I				0.77
7.083	0.31	0.18	0.055	O I				0.78
7.167	0.31	0.18	0.055	O I				0.79
7.250	0.31	0.18	0.056	O I				0.80
7.333	0.34	0.19	0.057	O I				0.82
7.417	0.34	0.19	0.058	O I				0.83
7.500	0.34	0.19	0.059	O I				0.85
7.583	0.37	0.20	0.060	O I				0.86
7.667	0.37	0.20	0.061	O I				0.88
7.750	0.37	0.21	0.063	O I				0.89
7.833	0.40	0.21	0.064	O I				0.91
7.917	0.40	0.21	0.065	O I				0.93
8.000	0.40	0.22	0.066	O I				0.95
8.083	0.46	0.22	0.068	O I				0.97
8.167	0.46	0.23	0.069	O I				0.99
8.250	0.46	0.23	0.071	O I				1.01
8.333	0.46	0.23	0.072	O I				1.03
8.417	0.46	0.23	0.074	O I				1.04
8.500	0.46	0.23	0.076	O I				1.06
8.583	0.49	0.23	0.077	O I				1.08
8.667	0.49	0.23	0.079	O I				1.10
8.750	0.49	0.23	0.081	O I				1.12
8.833	0.52	0.23	0.083	O I				1.14
8.917	0.52	0.23	0.085	O I				1.16

9.000	0.52	0.23	0.087	|	O|	I	|	|	1.18
9.083	0.58	0.23	0.089	|	O|	|I	|	|	1.20
9.167	0.58	0.23	0.091	|	O|	|I	|	|	1.23
9.250	0.58	0.23	0.094	|	O|	|I	|	|	1.25
9.333	0.61	0.23	0.096	|	O|	| I	|	|	1.28
9.417	0.61	0.23	0.099	|	O|	| I	|	|	1.31
9.500	0.61	0.23	0.101	|	O|	| I	|	|	1.34
9.583	0.64	0.23	0.104	|	O|	| I	|	|	1.37
9.667	0.64	0.23	0.107	|	O|	| I	|	|	1.40
9.750	0.64	0.23	0.110	|	O|	| I	|	|	1.43
9.833	0.67	0.23	0.113	|	O|	| I	|	|	1.46
9.917	0.67	0.23	0.116	|	O|	| I	|	|	1.49
10.000	0.67	0.23	0.119	|	O|	| I	|	|	1.53
10.083	0.46	0.23	0.121	|	O| I	|	|	|	1.55
10.167	0.46	0.23	0.123	|	O| I	|	|	|	1.57
10.250	0.46	0.23	0.124	|	O| I	|	|	|	1.58
10.333	0.46	0.23	0.126	|	O| I	|	|	|	1.60
10.417	0.46	0.23	0.127	|	O| I	|	|	|	1.62
10.500	0.46	0.23	0.129	|	O| I	|	|	|	1.63
10.583	0.61	0.23	0.131	|	O|	| I	|	|	1.66
10.667	0.61	0.23	0.134	|	O|	| I	|	|	1.69
10.750	0.61	0.23	0.136	|	O|	| I	|	|	1.71
10.833	0.61	0.23	0.139	|	O|	| I	|	|	1.74
10.917	0.61	0.23	0.142	|	O|	| I	|	|	1.77
11.000	0.61	0.23	0.144	|	O|	| I	|	|	1.80
11.083	0.58	0.23	0.147	|	O|	|I	|	|	1.83
11.167	0.58	0.23	0.149	|	O|	|I	|	|	1.85
11.250	0.58	0.23	0.152	|	O|	|I	|	|	1.88
11.333	0.58	0.23	0.154	|	O|	|I	|	|	1.90
11.417	0.58	0.23	0.156	|	O|	|I	|	|	1.93
11.500	0.58	0.23	0.159	|	O|	|I	|	|	1.96
11.583	0.52	0.23	0.161	|	O|	I	|	|	1.98
11.667	0.52	0.23	0.163	|	O|	I	|	|	2.00
11.750	0.52	0.23	0.165	|	O|	I	|	|	2.02
11.833	0.55	0.23	0.167	|	O|	I	|	|	2.04
11.917	0.55	0.23	0.169	|	O|	I	|	|	2.06
12.000	0.55	0.23	0.171	|	O|	I	|	|	2.08
12.083	0.76	0.23	0.174	|	O|	| I	|	|	2.11
12.167	0.76	0.23	0.178	|	O|	| I	|	|	2.14
12.250	0.76	0.23	0.182	|	O|	| I	|	|	2.18
12.333	0.79	0.23	0.186	|	O|	| I	|	|	2.21
12.417	0.79	0.23	0.189	|	O|	| I	|	|	2.25
12.500	0.79	0.23	0.193	|	O|	| I	|	|	2.29
12.583	0.85	0.23	0.197	|	O|	| | I	|	|	2.32
12.667	0.85	0.23	0.202	|	O|	| | I	|	|	2.37
12.750	0.85	0.23	0.206	|	O|	| | I	|	|	2.41
12.833	0.89	0.23	0.210	|	O|	| | I	|	|	2.45
12.917	0.89	0.23	0.215	|	O|	| | I	|	|	2.49
13.000	0.89	0.23	0.219	|	O|	| | I	|	|	2.53
13.083	1.04	0.23	0.225	|	O|	|	|	| I	2.58
13.167	1.04	0.23	0.230	|	O|	|	|	| I	2.63
13.250	1.04	0.23	0.236	|	O|	|	|	| I	2.69
13.333	1.04	0.23	0.241	|	O|	|	|	| I	2.74
13.417	1.04	0.23	0.247	|	O|	|	|	| I	2.79
13.500	1.04	0.23	0.252	|	O|	|	|	| I	2.84
13.583	0.70	0.23	0.257	|	O|	| I	|	|	2.88
13.667	0.70	0.23	0.260	|	O|	| I	|	|	2.92
13.750	0.70	0.23	0.263	|	O|	| I	|	|	2.95
13.833	0.70	0.23	0.266	|	O|	| I	|	|	2.98
13.917	0.70	0.24	0.270	|	O|	| I	|	|	3.01

14.000	0.70	0.29	0.273	|	|O	| I |	|	3.03
14.083	0.82	0.35	0.276	|	| O	| |I |	|	3.06
14.167	0.82	0.40	0.279	|	| O |	| |I |	|	3.09
14.250	0.82	0.45	0.282	|	| O |	| |I |	|	3.11
14.333	0.79	0.49	0.284	|	| O|	| I |	|	3.14
14.417	0.79	0.52	0.286	|	| O |	| I |	|	3.15
14.500	0.79	0.56	0.288	|	| |O |	| I |	|	3.17
14.583	0.79	0.58	0.289	|	| |O |	| I |	|	3.18
14.667	0.79	0.61	0.291	|	| | O |	| I |	|	3.20
14.750	0.79	0.63	0.292	|	| | O |	| I |	|	3.21
14.833	0.76	0.64	0.293	|	| | O |	I| |	|	3.22
14.917	0.76	0.66	0.294	|	| | O |	I| |	|	3.22
15.000	0.76	0.67	0.294	|	| | O |	I| |	|	3.23
15.083	0.73	0.68	0.295	|	| | O |	I | |	|	3.23
15.167	0.73	0.69	0.295	|	| | O |	I | |	|	3.24
15.250	0.73	0.69	0.295	|	| | O |	I | |	|	3.24
15.333	0.70	0.69	0.296	|	| | O |	| |	|	3.24
15.417	0.70	0.69	0.296	|	| | O |	| |	|	3.24
15.500	0.70	0.70	0.296	|	| | O |	| |	|	3.24
15.583	0.58	0.69	0.295	|	| |I |	O |	|	3.24
15.667	0.58	0.68	0.295	|	| |I |	O |	|	3.23
15.750	0.58	0.67	0.294	|	| |I |	O |	|	3.23
15.833	0.58	0.66	0.293	|	| |I |	O |	|	3.22
15.917	0.58	0.65	0.293	|	| |I |	O |	|	3.22
16.000	0.58	0.64	0.292	|	| |I |	O |	|	3.21
16.083	0.12	0.61	0.291	| I |	| |	O |	|	3.20
16.167	0.12	0.55	0.287	| I |	| |O |	|	3.17
16.250	0.12	0.50	0.285	| I |	| O| |	|	3.14
16.333	0.12	0.46	0.282	| I |	| O | |	|	3.12
16.417	0.12	0.42	0.280	| I |	| O | |	|	3.10
16.500	0.12	0.39	0.278	| I |	| O | |	|	3.08
16.583	0.09	0.36	0.276	| I |	| O | |	|	3.07
16.667	0.09	0.33	0.275	| I |	| O | |	|	3.05
16.750	0.09	0.30	0.273	| I |	|O | |	|	3.04
16.833	0.09	0.28	0.272	| I |	O | |	|	3.02
16.917	0.09	0.25	0.270	| I | O|	| |	|	3.01
17.000	0.09	0.24	0.269	| I | O|	| |	|	3.00
17.083	0.15	0.23	0.269	| | I | O|	| |	|	3.00
17.167	0.15	0.23	0.268	| | I | O|	| |	|	2.99
17.250	0.15	0.23	0.268	| | I | O|	| |	|	2.99
17.333	0.15	0.23	0.267	| | I | O|	| |	|	2.98
17.417	0.15	0.23	0.266	| | I | O|	| |	|	2.98
17.500	0.15	0.23	0.266	| | I | O|	| |	|	2.97
17.583	0.15	0.23	0.265	| | I | O|	| |	|	2.97
17.667	0.15	0.23	0.265	| | I | O|	| |	|	2.96
17.750	0.15	0.23	0.264	| | I | O|	| |	|	2.96
17.833	0.12	0.23	0.264	| | I | O|	| |	|	2.95
17.917	0.12	0.23	0.263	| | I | O|	| |	|	2.94
18.000	0.12	0.23	0.262	| | I | O|	| |	|	2.94
18.083	0.12	0.23	0.261	| | I | O|	| |	|	2.93
18.167	0.12	0.23	0.261	| | I | O|	| |	|	2.92
18.250	0.12	0.23	0.260	| | I | O|	| |	|	2.92
18.333	0.12	0.23	0.259	| | I | O|	| |	|	2.91
18.417	0.12	0.23	0.259	| | I | O|	| |	|	2.90
18.500	0.12	0.23	0.258	| | I | O|	| |	|	2.89
18.583	0.09	0.23	0.257	| I | O|	| |	|	2.89
18.667	0.09	0.23	0.256	| I | O|	| |	|	2.88
18.750	0.09	0.23	0.255	| I | O|	| |	|	2.87
18.833	0.06	0.23	0.254	|I | O|	| |	|	2.86
18.917	0.06	0.23	0.253	|I | O|	| |	|	2.85

19.000	0.06	0.23	0.252	I	O			2.84
19.083	0.09	0.23	0.251	I	O			2.83
19.167	0.09	0.23	0.250	I	O			2.82
19.250	0.09	0.23	0.249	I	O			2.81
19.333	0.12	0.23	0.248	I	O			2.80
19.417	0.12	0.23	0.247	I	O			2.79
19.500	0.12	0.23	0.246	I	O			2.79
19.583	0.09	0.23	0.245	I	O			2.78
19.667	0.09	0.23	0.245	I	O			2.77
19.750	0.09	0.23	0.244	I	O			2.76
19.833	0.06	0.23	0.243	I	O			2.75
19.917	0.06	0.23	0.241	I	O			2.74
20.000	0.06	0.23	0.240	I	O			2.73
20.083	0.09	0.23	0.239	I	O			2.72
20.167	0.09	0.23	0.238	I	O			2.71
20.250	0.09	0.23	0.237	I	O			2.70
20.333	0.09	0.23	0.236	I	O			2.69
20.417	0.09	0.23	0.235	I	O			2.68
20.500	0.09	0.23	0.234	I	O			2.67
20.583	0.09	0.23	0.233	I	O			2.66
20.667	0.09	0.23	0.232	I	O			2.66
20.750	0.09	0.23	0.232	I	O			2.65
20.833	0.06	0.23	0.230	I	O			2.64
20.917	0.06	0.23	0.229	I	O			2.63
21.000	0.06	0.23	0.228	I	O			2.61
21.083	0.09	0.23	0.227	I	O			2.60
21.167	0.09	0.23	0.226	I	O			2.60
21.250	0.09	0.23	0.225	I	O			2.59
21.333	0.06	0.23	0.224	I	O			2.58
21.417	0.06	0.23	0.223	I	O			2.57
21.500	0.06	0.23	0.222	I	O			2.55
21.583	0.09	0.23	0.221	I	O			2.54
21.667	0.09	0.23	0.220	I	O			2.54
21.750	0.09	0.23	0.219	I	O			2.53
21.833	0.06	0.23	0.218	I	O			2.52
21.917	0.06	0.23	0.217	I	O			2.51
22.000	0.06	0.23	0.215	I	O			2.49
22.083	0.09	0.23	0.214	I	O			2.48
22.167	0.09	0.23	0.213	I	O			2.48
22.250	0.09	0.23	0.212	I	O			2.47
22.333	0.06	0.23	0.211	I	O			2.46
22.417	0.06	0.23	0.210	I	O			2.45
22.500	0.06	0.23	0.209	I	O			2.43
22.583	0.06	0.23	0.208	I	O			2.42
22.667	0.06	0.23	0.207	I	O			2.41
22.750	0.06	0.23	0.206	I	O			2.40
22.833	0.06	0.23	0.204	I	O			2.39
22.917	0.06	0.23	0.203	I	O			2.38
23.000	0.06	0.23	0.202	I	O			2.37
23.083	0.06	0.23	0.201	I	O			2.36
23.167	0.06	0.23	0.200	I	O			2.35
23.250	0.06	0.23	0.199	I	O			2.34
23.333	0.06	0.23	0.197	I	O			2.32
23.417	0.06	0.23	0.196	I	O			2.31
23.500	0.06	0.23	0.195	I	O			2.30
23.583	0.06	0.23	0.194	I	O			2.29
23.667	0.06	0.23	0.193	I	O			2.28
23.750	0.06	0.23	0.192	I	O			2.27
23.833	0.06	0.23	0.190	I	O			2.26
23.917	0.06	0.23	0.189	I	O			2.25

24.000	0.06	0.23	0.188	|I	O|	|	|	|	2.24
24.083	0.00	0.23	0.187	I	O|	|	|	|	2.22
24.167	0.00	0.23	0.185	I	O|	|	|	|	2.21
24.250	0.00	0.23	0.184	I	O|	|	|	|	2.19
24.333	0.00	0.23	0.182	I	O|	|	|	|	2.18
24.417	0.00	0.23	0.180	I	O|	|	|	|	2.16
24.500	0.00	0.23	0.179	I	O|	|	|	|	2.15
24.583	0.00	0.23	0.177	I	O|	|	|	|	2.13
24.667	0.00	0.23	0.176	I	O|	|	|	|	2.12
24.750	0.00	0.23	0.174	I	O|	|	|	|	2.10
24.833	0.00	0.23	0.172	I	O|	|	|	|	2.09
24.917	0.00	0.23	0.171	I	O|	|	|	|	2.07
25.000	0.00	0.23	0.169	I	O|	|	|	|	2.06
25.083	0.00	0.23	0.168	I	O|	|	|	|	2.04
25.167	0.00	0.23	0.166	I	O|	|	|	|	2.03
25.250	0.00	0.23	0.165	I	O|	|	|	|	2.01
25.333	0.00	0.23	0.163	I	O|	|	|	|	2.00
25.417	0.00	0.23	0.161	I	O|	|	|	|	1.98
25.500	0.00	0.23	0.160	I	O|	|	|	|	1.97
25.583	0.00	0.23	0.158	I	O|	|	|	|	1.95
25.667	0.00	0.23	0.157	I	O|	|	|	|	1.93
25.750	0.00	0.23	0.155	I	O|	|	|	|	1.91
25.833	0.00	0.23	0.153	I	O|	|	|	|	1.90
25.917	0.00	0.23	0.152	I	O|	|	|	|	1.88
26.000	0.00	0.23	0.150	I	O|	|	|	|	1.86
26.083	0.00	0.23	0.149	I	O|	|	|	|	1.85
26.167	0.00	0.23	0.147	I	O|	|	|	|	1.83
26.250	0.00	0.23	0.146	I	O|	|	|	|	1.81
26.333	0.00	0.23	0.144	I	O|	|	|	|	1.80
26.417	0.00	0.23	0.142	I	O|	|	|	|	1.78
26.500	0.00	0.23	0.141	I	O|	|	|	|	1.76
26.583	0.00	0.23	0.139	I	O|	|	|	|	1.74
26.667	0.00	0.23	0.138	I	O|	|	|	|	1.73
26.750	0.00	0.23	0.136	I	O|	|	|	|	1.71
26.833	0.00	0.23	0.134	I	O|	|	|	|	1.69
26.917	0.00	0.23	0.133	I	O|	|	|	|	1.68
27.000	0.00	0.23	0.131	I	O|	|	|	|	1.66
27.083	0.00	0.23	0.130	I	O|	|	|	|	1.64
27.167	0.00	0.23	0.128	I	O|	|	|	|	1.63
27.250	0.00	0.23	0.127	I	O|	|	|	|	1.61
27.333	0.00	0.23	0.125	I	O|	|	|	|	1.59
27.417	0.00	0.23	0.123	I	O|	|	|	|	1.57
27.500	0.00	0.23	0.122	I	O|	|	|	|	1.56
27.583	0.00	0.23	0.120	I	O|	|	|	|	1.54
27.667	0.00	0.23	0.119	I	O|	|	|	|	1.52
27.750	0.00	0.23	0.117	I	O|	|	|	|	1.51
27.833	0.00	0.23	0.115	I	O|	|	|	|	1.49
27.917	0.00	0.23	0.114	I	O|	|	|	|	1.47
28.000	0.00	0.23	0.112	I	O|	|	|	|	1.45
28.083	0.00	0.23	0.111	I	O|	|	|	|	1.44
28.167	0.00	0.23	0.109	I	O|	|	|	|	1.42
28.250	0.00	0.23	0.108	I	O|	|	|	|	1.40
28.333	0.00	0.23	0.106	I	O|	|	|	|	1.39
28.417	0.00	0.23	0.104	I	O|	|	|	|	1.37
28.500	0.00	0.23	0.103	I	O|	|	|	|	1.35
28.583	0.00	0.23	0.101	I	O|	|	|	|	1.34
28.667	0.00	0.23	0.100	I	O|	|	|	|	1.32
28.750	0.00	0.23	0.098	I	O|	|	|	|	1.30
28.833	0.00	0.23	0.096	I	O|	|	|	|	1.28
28.917	0.00	0.23	0.095	I	O|	|	|	|	1.27

29.000	0.00	0.23	0.093	I	O			1.25
29.083	0.00	0.23	0.092	I	O			1.23
29.167	0.00	0.23	0.090	I	O			1.22
29.250	0.00	0.23	0.089	I	O			1.20
29.333	0.00	0.23	0.087	I	O			1.18
29.417	0.00	0.23	0.085	I	O			1.17
29.500	0.00	0.23	0.084	I	O			1.15
29.583	0.00	0.23	0.082	I	O			1.13
29.667	0.00	0.23	0.081	I	O			1.11
29.750	0.00	0.23	0.079	I	O			1.10
29.833	0.00	0.23	0.077	I	O			1.08
29.917	0.00	0.23	0.076	I	O			1.06
30.000	0.00	0.23	0.074	I	O			1.05
30.083	0.00	0.23	0.073	I	O			1.03
30.167	0.00	0.23	0.071	I	O			1.01
30.250	0.00	0.23	0.070	I	O			0.99
30.333	0.00	0.22	0.068	I	O			0.97
30.417	0.00	0.22	0.066	I	O			0.95
30.500	0.00	0.21	0.065	I	O			0.93
30.583	0.00	0.21	0.064	I	O			0.91
30.667	0.00	0.20	0.062	I	O			0.89
30.750	0.00	0.20	0.061	I	O			0.87
30.833	0.00	0.20	0.059	I	O			0.85
30.917	0.00	0.19	0.058	I	O			0.83
31.000	0.00	0.19	0.057	I	O			0.81
31.083	0.00	0.18	0.055	I	O			0.79
31.167	0.00	0.18	0.054	I	O			0.77
31.250	0.00	0.17	0.053	I	O			0.76
31.333	0.00	0.17	0.052	I	O			0.74
31.417	0.00	0.17	0.051	I	O			0.72
31.500	0.00	0.16	0.050	I	O			0.71
31.583	0.00	0.16	0.048	I	O			0.69
31.667	0.00	0.16	0.047	I	O			0.68
31.750	0.00	0.15	0.046	I	O			0.66
31.833	0.00	0.15	0.045	I	O			0.65
31.917	0.00	0.15	0.044	I	O			0.63
32.000	0.00	0.14	0.043	I	O			0.62
32.083	0.00	0.14	0.042	I	O			0.60
32.167	0.00	0.14	0.041	I	O			0.59
32.250	0.00	0.13	0.040	I	O			0.58
32.333	0.00	0.13	0.039	I	O			0.56
32.417	0.00	0.13	0.039	I	O			0.55
32.500	0.00	0.12	0.038	I	O			0.54
32.583	0.00	0.12	0.037	I	O			0.53
32.667	0.00	0.12	0.036	I	O			0.52
32.750	0.00	0.12	0.035	I	O			0.50
32.833	0.00	0.11	0.034	I	O			0.49
32.917	0.00	0.11	0.034	I	O			0.48
33.000	0.00	0.11	0.033	I	O			0.47
33.083	0.00	0.11	0.032	I	O			0.46
33.167	0.00	0.10	0.031	I	O			0.45
33.250	0.00	0.10	0.031	I	O			0.44
33.333	0.00	0.10	0.030	I	O			0.43
33.417	0.00	0.10	0.029	I	O			0.42
33.500	0.00	0.09	0.029	I	O			0.41
33.583	0.00	0.09	0.028	I	O			0.40
33.667	0.00	0.09	0.027	I	O			0.39
33.750	0.00	0.09	0.027	I	O			0.38
33.833	0.00	0.09	0.026	I	O			0.38
33.917	0.00	0.08	0.026	I	O			0.37

34.000	0.00	0.08	0.025	I O	|	|	|	0.36
34.083	0.00	0.08	0.025	I O	|	|	|	0.35
34.167	0.00	0.08	0.024	I O	|	|	|	0.34
34.250	0.00	0.08	0.023	I O	|	|	|	0.34
34.333	0.00	0.08	0.023	I O	|	|	|	0.33
34.417	0.00	0.07	0.022	I O	|	|	|	0.32
34.500	0.00	0.07	0.022	I O	|	|	|	0.31
34.583	0.00	0.07	0.021	I O	|	|	|	0.31
34.667	0.00	0.07	0.021	I O	|	|	|	0.30
34.750	0.00	0.07	0.020	I O	|	|	|	0.29
34.833	0.00	0.07	0.020	I O	|	|	|	0.29
34.917	0.00	0.06	0.020	IO	|	|	|	0.28
35.000	0.00	0.06	0.019	IO	|	|	|	0.27
35.083	0.00	0.06	0.019	IO	|	|	|	0.27
35.167	0.00	0.06	0.018	IO	|	|	|	0.26
35.250	0.00	0.06	0.018	IO	|	|	|	0.26
35.333	0.00	0.06	0.017	IO	|	|	|	0.25
35.417	0.00	0.06	0.017	IO	|	|	|	0.24
35.500	0.00	0.05	0.017	IO	|	|	|	0.24
35.583	0.00	0.05	0.016	IO	|	|	|	0.23
35.667	0.00	0.05	0.016	IO	|	|	|	0.23
35.750	0.00	0.05	0.016	IO	|	|	|	0.22
35.833	0.00	0.05	0.015	IO	|	|	|	0.22
35.917	0.00	0.05	0.015	IO	|	|	|	0.21
36.000	0.00	0.05	0.015	IO	|	|	|	0.21
36.083	0.00	0.05	0.014	IO	|	|	|	0.20
36.167	0.00	0.05	0.014	IO	|	|	|	0.20
36.250	0.00	0.04	0.014	IO	|	|	|	0.19
36.333	0.00	0.04	0.013	IO	|	|	|	0.19
36.417	0.00	0.04	0.013	IO	|	|	|	0.19
36.500	0.00	0.04	0.013	IO	|	|	|	0.18
36.583	0.00	0.04	0.012	IO	|	|	|	0.18
36.667	0.00	0.04	0.012	IO	|	|	|	0.17
36.750	0.00	0.04	0.012	IO	|	|	|	0.17
36.833	0.00	0.04	0.012	IO	|	|	|	0.17
36.917	0.00	0.04	0.011	IO	|	|	|	0.16
37.000	0.00	0.04	0.011	IO	|	|	|	0.16
37.083	0.00	0.04	0.011	IO	|	|	|	0.16
37.167	0.00	0.03	0.011	IO	|	|	|	0.15
37.250	0.00	0.03	0.010	IO	|	|	|	0.15
37.333	0.00	0.03	0.010	IO	|	|	|	0.15
37.417	0.00	0.03	0.010	IO	|	|	|	0.14
37.500	0.00	0.03	0.010	O	|	|	|	0.14
37.583	0.00	0.03	0.009	O	|	|	|	0.14
37.667	0.00	0.03	0.009	O	|	|	|	0.13
37.750	0.00	0.03	0.009	O	|	|	|	0.13
37.833	0.00	0.03	0.009	O	|	|	|	0.13
37.917	0.00	0.03	0.009	O	|	|	|	0.12
38.000	0.00	0.03	0.008	O	|	|	|	0.12
38.083	0.00	0.03	0.008	O	|	|	|	0.12
38.167	0.00	0.03	0.008	O	|	|	|	0.12
38.250	0.00	0.03	0.008	O	|	|	|	0.11
38.333	0.00	0.03	0.008	O	|	|	|	0.11
38.417	0.00	0.02	0.008	O	|	|	|	0.11
38.500	0.00	0.02	0.007	O	|	|	|	0.11
38.583	0.00	0.02	0.007	O	|	|	|	0.10
38.667	0.00	0.02	0.007	O	|	|	|	0.10
38.750	0.00	0.02	0.007	O	|	|	|	0.10
38.833	0.00	0.02	0.007	O	|	|	|	0.10
38.917	0.00	0.02	0.007	O	|	|	|	0.09

39.000	0.00	0.02	0.006	O	|	|	|	0.09
39.083	0.00	0.02	0.006	O	|	|	|	0.09
39.167	0.00	0.02	0.006	O	|	|	|	0.09
39.250	0.00	0.02	0.006	O	|	|	|	0.09
39.333	0.00	0.02	0.006	O	|	|	|	0.08
39.417	0.00	0.02	0.006	O	|	|	|	0.08
39.500	0.00	0.02	0.006	O	|	|	|	0.08
39.583	0.00	0.02	0.006	O	|	|	|	0.08
39.667	0.00	0.02	0.005	O	|	|	|	0.08
39.750	0.00	0.02	0.005	O	|	|	|	0.08
39.833	0.00	0.02	0.005	O	|	|	|	0.07
39.917	0.00	0.02	0.005	O	|	|	|	0.07
40.000	0.00	0.02	0.005	O	|	|	|	0.07
40.083	0.00	0.02	0.005	O	|	|	|	0.07
40.167	0.00	0.02	0.005	O	|	|	|	0.07
40.250	0.00	0.02	0.005	O	|	|	|	0.07
40.333	0.00	0.01	0.004	O	|	|	|	0.06
40.417	0.00	0.01	0.004	O	|	|	|	0.06
40.500	0.00	0.01	0.004	O	|	|	|	0.06
40.583	0.00	0.01	0.004	O	|	|	|	0.06
40.667	0.00	0.01	0.004	O	|	|	|	0.06
40.750	0.00	0.01	0.004	O	|	|	|	0.06
40.833	0.00	0.01	0.004	O	|	|	|	0.06
40.917	0.00	0.01	0.004	O	|	|	|	0.05
41.000	0.00	0.01	0.004	O	|	|	|	0.05
41.083	0.00	0.01	0.004	O	|	|	|	0.05
41.167	0.00	0.01	0.004	O	|	|	|	0.05
41.250	0.00	0.01	0.004	O	|	|	|	0.05
41.333	0.00	0.01	0.003	O	|	|	|	0.05
41.417	0.00	0.01	0.003	O	|	|	|	0.05
41.500	0.00	0.01	0.003	O	|	|	|	0.05
41.583	0.00	0.01	0.003	O	|	|	|	0.05
41.667	0.00	0.01	0.003	O	|	|	|	0.04
41.750	0.00	0.01	0.003	O	|	|	|	0.04
41.833	0.00	0.01	0.003	O	|	|	|	0.04
41.917	0.00	0.01	0.003	O	|	|	|	0.04
42.000	0.00	0.01	0.003	O	|	|	|	0.04
42.083	0.00	0.01	0.003	O	|	|	|	0.04
42.167	0.00	0.01	0.003	O	|	|	|	0.04
42.250	0.00	0.01	0.003	O	|	|	|	0.04
42.333	0.00	0.01	0.003	O	|	|	|	0.04
42.417	0.00	0.01	0.003	O	|	|	|	0.04
42.500	0.00	0.01	0.002	O	|	|	|	0.04
42.583	0.00	0.01	0.002	O	|	|	|	0.03
42.667	0.00	0.01	0.002	O	|	|	|	0.03
42.750	0.00	0.01	0.002	O	|	|	|	0.03
42.833	0.00	0.01	0.002	O	|	|	|	0.03
42.917	0.00	0.01	0.002	O	|	|	|	0.03
43.000	0.00	0.01	0.002	O	|	|	|	0.03
43.083	0.00	0.01	0.002	O	|	|	|	0.03
43.167	0.00	0.01	0.002	O	|	|	|	0.03
43.250	0.00	0.01	0.002	O	|	|	|	0.03
43.333	0.00	0.01	0.002	O	|	|	|	0.03
43.417	0.00	0.01	0.002	O	|	|	|	0.03
43.500	0.00	0.01	0.002	O	|	|	|	0.03
43.583	0.00	0.01	0.002	O	|	|	|	0.03
43.667	0.00	0.01	0.002	O	|	|	|	0.03
43.750	0.00	0.01	0.002	O	|	|	|	0.03
43.833	0.00	0.01	0.002	O	|	|	|	0.02
43.917	0.00	0.01	0.002	O	|	|	|	0.02

44.000	0.00	0.01	0.002	O	|	|	|	0.02
44.083	0.00	0.01	0.002	O	|	|	|	0.02
44.167	0.00	0.01	0.002	O	|	|	|	0.02
44.250	0.00	0.01	0.002	O	|	|	|	0.02
44.333	0.00	0.00	0.002	O	|	|	|	0.02
44.417	0.00	0.00	0.001	O	|	|	|	0.02
44.500	0.00	0.00	0.001	O	|	|	|	0.02
44.583	0.00	0.00	0.001	O	|	|	|	0.02
44.667	0.00	0.00	0.001	O	|	|	|	0.02
44.750	0.00	0.00	0.001	O	|	|	|	0.02
44.833	0.00	0.00	0.001	O	|	|	|	0.02
44.917	0.00	0.00	0.001	O	|	|	|	0.02
45.000	0.00	0.00	0.001	O	|	|	|	0.02
45.083	0.00	0.00	0.001	O	|	|	|	0.02
45.167	0.00	0.00	0.001	O	|	|	|	0.02
45.250	0.00	0.00	0.001	O	|	|	|	0.02
45.333	0.00	0.00	0.001	O	|	|	|	0.02
45.417	0.00	0.00	0.001	O	|	|	|	0.02
45.500	0.00	0.00	0.001	O	|	|	|	0.02
45.583	0.00	0.00	0.001	O	|	|	|	0.02
45.667	0.00	0.00	0.001	O	|	|	|	0.02
45.750	0.00	0.00	0.001	O	|	|	|	0.01
45.833	0.00	0.00	0.001	O	|	|	|	0.01
45.917	0.00	0.00	0.001	O	|	|	|	0.01
46.000	0.00	0.00	0.001	O	|	|	|	0.01
46.083	0.00	0.00	0.001	O	|	|	|	0.01
46.167	0.00	0.00	0.001	O	|	|	|	0.01
46.250	0.00	0.00	0.001	O	|	|	|	0.01
46.333	0.00	0.00	0.001	O	|	|	|	0.01
46.417	0.00	0.00	0.001	O	|	|	|	0.01
46.500	0.00	0.00	0.001	O	|	|	|	0.01
46.583	0.00	0.00	0.001	O	|	|	|	0.01
46.667	0.00	0.00	0.001	O	|	|	|	0.01
46.750	0.00	0.00	0.001	O	|	|	|	0.01
46.833	0.00	0.00	0.001	O	|	|	|	0.01
46.917	0.00	0.00	0.001	O	|	|	|	0.01
47.000	0.00	0.00	0.001	O	|	|	|	0.01
47.083	0.00	0.00	0.001	O	|	|	|	0.01
47.167	0.00	0.00	0.001	O	|	|	|	0.01
47.250	0.00	0.00	0.001	O	|	|	|	0.01
47.333	0.00	0.00	0.001	O	|	|	|	0.01
47.417	0.00	0.00	0.001	O	|	|	|	0.01
47.500	0.00	0.00	0.001	O	|	|	|	0.01
47.583	0.00	0.00	0.001	O	|	|	|	0.01
47.667	0.00	0.00	0.001	O	|	|	|	0.01
47.750	0.00	0.00	0.001	O	|	|	|	0.01
47.833	0.00	0.00	0.001	O	|	|	|	0.01
47.917	0.00	0.00	0.001	O	|	|	|	0.01
48.000	0.00	0.00	0.001	O	|	|	|	0.01
48.083	0.00	0.00	0.001	O	|	|	|	0.01
48.167	0.00	0.00	0.001	O	|	|	|	0.01
48.250	0.00	0.00	0.001	O	|	|	|	0.01
48.333	0.00	0.00	0.001	O	|	|	|	0.01
48.417	0.00	0.00	0.001	O	|	|	|	0.01
48.500	0.00	0.00	0.000	O	|	|	|	0.01
48.583	0.00	0.00	0.000	O	|	|	|	0.01
48.667	0.00	0.00	0.000	O	|	|	|	0.01
48.750	0.00	0.00	0.000	O	|	|	|	0.01
48.833	0.00	0.00	0.000	O	|	|	|	0.01
48.917	0.00	0.00	0.000	O	|	|	|	0.01

49.000	0.00	0.00	0.000	O	|	|	|	|	0.01
49.083	0.00	0.00	0.000	O	|	|	|	|	0.01
49.167	0.00	0.00	0.000	O	|	|	|	|	0.01
49.250	0.00	0.00	0.000	O	|	|	|	|	0.01
49.333	0.00	0.00	0.000	O	|	|	|	|	0.01
49.417	0.00	0.00	0.000	O	|	|	|	|	0.01
49.500	0.00	0.00	0.000	O	|	|	|	|	0.01
49.583	0.00	0.00	0.000	O	|	|	|	|	0.01
49.667	0.00	0.00	0.000	O	|	|	|	|	0.01
49.750	0.00	0.00	0.000	O	|	|	|	|	0.00
49.833	0.00	0.00	0.000	O	|	|	|	|	0.00
49.917	0.00	0.00	0.000	O	|	|	|	|	0.00
50.000	0.00	0.00	0.000	O	|	|	|	|	0.00
50.083	0.00	0.00	0.000	O	|	|	|	|	0.00
50.167	0.00	0.00	0.000	O	|	|	|	|	0.00
50.250	0.00	0.00	0.000	O	|	|	|	|	0.00
50.333	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 604
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.695 (CFS)
Total volume = 0.631 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
5-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 12
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 13.186 (CFS)
Total volume = 0.280 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 12
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	3.3	6.59	9.89	13.19	Depth (Ft.)
0.083	1.29	0.01	0.004	O I	|	|	|	|	0.06
0.167	1.79	0.05	0.015	O I	|	|	|	|	0.21
0.250	1.79	0.09	0.027	O I	|	|	|	|	0.38
0.333	1.94	0.13	0.039	O I	|	|	|	|	0.55
0.417	2.20	0.17	0.052	O I	|	|	|	|	0.74
0.500	2.24	0.22	0.066	O I	|	|	|	|	0.94
0.583	2.71	0.23	0.081	O I	|	|	|	|	1.12
0.667	3.45	0.23	0.101	O I	|	|	|	|	1.33
0.750	5.54	0.23	0.130	O |	I |	|	|	|	1.65
0.833	13.19	0.23	0.193	O |	|	|	|	I |	2.29
0.917	2.99	0.23	0.247	O I |	|	|	|	|	2.80
1.000	1.52	0.23	0.261	O I	|	|	|	|	2.93
1.083	0.00	0.23	0.265	O	|	|	|	|	2.96
1.167	0.00	0.23	0.263	O	|	|	|	|	2.95
1.250	0.00	0.23	0.262	O	|	|	|	|	2.93
1.333	0.00	0.23	0.260	O	|	|	|	|	2.92
1.417	0.00	0.23	0.259	O	|	|	|	|	2.90
1.500	0.00	0.23	0.257	O	|	|	|	|	2.89
1.583	0.00	0.23	0.256	O	|	|	|	|	2.87
1.667	0.00	0.23	0.254	O	|	|	|	|	2.86
1.750	0.00	0.23	0.252	O	|	|	|	|	2.84
1.833	0.00	0.23	0.251	O	|	|	|	|	2.83
1.917	0.00	0.23	0.249	O	|	|	|	|	2.81
2.000	0.00	0.23	0.248	O	|	|	|	|	2.80
2.083	0.00	0.23	0.246	O	|	|	|	|	2.78
2.167	0.00	0.23	0.244	O	|	|	|	|	2.77
2.250	0.00	0.23	0.243	O	|	|	|	|	2.75
2.333	0.00	0.23	0.241	O	|	|	|	|	2.74
2.417	0.00	0.23	0.240	O	|	|	|	|	2.72
2.500	0.00	0.23	0.238	O	|	|	|	|	2.71
2.583	0.00	0.23	0.237	O	|	|	|	|	2.69
2.667	0.00	0.23	0.235	O	|	|	|	|	2.68
2.750	0.00	0.23	0.233	O	|	|	|	|	2.66
2.833	0.00	0.23	0.232	O	|	|	|	|	2.65
2.917	0.00	0.23	0.230	O	|	|	|	|	2.63
3.000	0.00	0.23	0.229	O	|	|	|	|	2.62
3.083	0.00	0.23	0.227	O	|	|	|	|	2.60
3.167	0.00	0.23	0.225	O	|	|	|	|	2.59
3.250	0.00	0.23	0.224	O	|	|	|	|	2.57
3.333	0.00	0.23	0.222	O	|	|	|	|	2.56
3.417	0.00	0.23	0.221	O	|	|	|	|	2.54
3.500	0.00	0.23	0.219	O	|	|	|	|	2.53
3.583	0.00	0.23	0.218	O	|	|	|	|	2.51
3.667	0.00	0.23	0.216	O	|	|	|	|	2.50
3.750	0.00	0.23	0.214	O	|	|	|	|	2.48
3.833	0.00	0.23	0.213	O	|	|	|	|	2.47
3.917	0.00	0.23	0.211	O	|	|	|	|	2.45

4.000	0.00	0.23	0.210	O	|	|	|	2.44
4.083	0.00	0.23	0.208	O	|	|	|	2.42
4.167	0.00	0.23	0.206	O	|	|	|	2.41
4.250	0.00	0.23	0.205	O	|	|	|	2.40
4.333	0.00	0.23	0.203	O	|	|	|	2.38
4.417	0.00	0.23	0.202	O	|	|	|	2.37
4.500	0.00	0.23	0.200	O	|	|	|	2.35
4.583	0.00	0.23	0.199	O	|	|	|	2.34
4.667	0.00	0.23	0.197	O	|	|	|	2.32
4.750	0.00	0.23	0.195	O	|	|	|	2.31
4.833	0.00	0.23	0.194	O	|	|	|	2.29
4.917	0.00	0.23	0.192	O	|	|	|	2.28
5.000	0.00	0.23	0.191	O	|	|	|	2.26
5.083	0.00	0.23	0.189	O	|	|	|	2.25
5.167	0.00	0.23	0.187	O	|	|	|	2.23
5.250	0.00	0.23	0.186	O	|	|	|	2.22
5.333	0.00	0.23	0.184	O	|	|	|	2.20
5.417	0.00	0.23	0.183	O	|	|	|	2.19
5.500	0.00	0.23	0.181	O	|	|	|	2.17
5.583	0.00	0.23	0.180	O	|	|	|	2.16
5.667	0.00	0.23	0.178	O	|	|	|	2.14
5.750	0.00	0.23	0.176	O	|	|	|	2.13
5.833	0.00	0.23	0.175	O	|	|	|	2.11
5.917	0.00	0.23	0.173	O	|	|	|	2.10
6.000	0.00	0.23	0.172	O	|	|	|	2.08
6.083	0.00	0.23	0.170	O	|	|	|	2.07
6.167	0.00	0.23	0.168	O	|	|	|	2.05
6.250	0.00	0.23	0.167	O	|	|	|	2.04
6.333	0.00	0.23	0.165	O	|	|	|	2.02
6.417	0.00	0.23	0.164	O	|	|	|	2.01
6.500	0.00	0.23	0.162	O	|	|	|	1.99
6.583	0.00	0.23	0.161	O	|	|	|	1.97
6.667	0.00	0.23	0.159	O	|	|	|	1.96
6.750	0.00	0.23	0.157	O	|	|	|	1.94
6.833	0.00	0.23	0.156	O	|	|	|	1.92
6.917	0.00	0.23	0.154	O	|	|	|	1.91
7.000	0.00	0.23	0.153	O	|	|	|	1.89
7.083	0.00	0.23	0.151	O	|	|	|	1.87
7.167	0.00	0.23	0.149	O	|	|	|	1.85
7.250	0.00	0.23	0.148	O	|	|	|	1.84
7.333	0.00	0.23	0.146	O	|	|	|	1.82
7.417	0.00	0.23	0.145	O	|	|	|	1.80
7.500	0.00	0.23	0.143	O	|	|	|	1.79
7.583	0.00	0.23	0.142	O	|	|	|	1.77
7.667	0.00	0.23	0.140	O	|	|	|	1.75
7.750	0.00	0.23	0.138	O	|	|	|	1.73
7.833	0.00	0.23	0.137	O	|	|	|	1.72
7.917	0.00	0.23	0.135	O	|	|	|	1.70
8.000	0.00	0.23	0.134	O	|	|	|	1.68
8.083	0.00	0.23	0.132	O	|	|	|	1.67
8.167	0.00	0.23	0.130	O	|	|	|	1.65
8.250	0.00	0.23	0.129	O	|	|	|	1.63
8.333	0.00	0.23	0.127	O	|	|	|	1.62
8.417	0.00	0.23	0.126	O	|	|	|	1.60
8.500	0.00	0.23	0.124	O	|	|	|	1.58
8.583	0.00	0.23	0.123	O	|	|	|	1.56
8.667	0.00	0.23	0.121	O	|	|	|	1.55
8.750	0.00	0.23	0.119	O	|	|	|	1.53
8.833	0.00	0.23	0.118	O	|	|	|	1.51
8.917	0.00	0.23	0.116	O	|	|	|	1.50

9.000	0.00	0.23	0.115	O					1.48
9.083	0.00	0.23	0.113	O					1.46
9.167	0.00	0.23	0.111	O					1.45
9.250	0.00	0.23	0.110	O					1.43
9.333	0.00	0.23	0.108	O					1.41
9.417	0.00	0.23	0.107	O					1.39
9.500	0.00	0.23	0.105	O					1.38
9.583	0.00	0.23	0.103	O					1.36
9.667	0.00	0.23	0.102	O					1.34
9.750	0.00	0.23	0.100	O					1.33
9.833	0.00	0.23	0.099	O					1.31
9.917	0.00	0.23	0.097	O					1.29
10.000	0.00	0.23	0.096	O					1.27
10.083	0.00	0.23	0.094	O					1.26
10.167	0.00	0.23	0.092	O					1.24
10.250	0.00	0.23	0.091	O					1.22
10.333	0.00	0.23	0.089	O					1.21
10.417	0.00	0.23	0.088	O					1.19
10.500	0.00	0.23	0.086	O					1.17
10.583	0.00	0.23	0.084	O					1.16
10.667	0.00	0.23	0.083	O					1.14
10.750	0.00	0.23	0.081	O					1.12
10.833	0.00	0.23	0.080	O					1.10
10.917	0.00	0.23	0.078	O					1.09
11.000	0.00	0.23	0.077	O					1.07
11.083	0.00	0.23	0.075	O					1.05
11.167	0.00	0.23	0.073	O					1.04
11.250	0.00	0.23	0.072	O					1.02
11.333	0.00	0.23	0.070	O					1.00
11.417	0.00	0.23	0.069	O					0.98
11.500	0.00	0.22	0.067	O					0.96
11.583	0.00	0.22	0.066	O					0.94
11.667	0.00	0.21	0.064	O					0.92
11.750	0.00	0.21	0.063	O					0.90
11.833	0.00	0.20	0.061	O					0.88
11.917	0.00	0.20	0.060	O					0.86
12.000	0.00	0.19	0.059	O					0.84
12.083	0.00	0.19	0.057	O					0.82
12.167	0.00	0.18	0.056	O					0.80
12.250	0.00	0.18	0.055	O					0.78
12.333	0.00	0.18	0.054	O					0.76
12.417	0.00	0.17	0.052	O					0.75
12.500	0.00	0.17	0.051	O					0.73
12.583	0.00	0.16	0.050	O					0.71
12.667	0.00	0.16	0.049	O					0.70
12.750	0.00	0.16	0.048	O					0.68
12.833	0.00	0.15	0.047	O					0.67
12.917	0.00	0.15	0.046	O					0.65
13.000	0.00	0.15	0.045	O					0.64
13.083	0.00	0.14	0.044	O					0.62
13.167	0.00	0.14	0.043	O					0.61
13.250	0.00	0.14	0.042	O					0.60
13.333	0.00	0.13	0.041	O					0.58
13.417	0.00	0.13	0.040	O					0.57
13.500	0.00	0.13	0.039	O					0.56
13.583	0.00	0.13	0.038	O					0.54
13.667	0.00	0.12	0.037	O					0.53
13.750	0.00	0.12	0.036	O					0.52
13.833	0.00	0.12	0.036	O					0.51
13.917	0.00	0.11	0.035	O					0.50

14.000	0.00	0.11	0.034	O					0.49
14.083	0.00	0.11	0.033	O					0.48
14.167	0.00	0.11	0.033	O					0.46
14.250	0.00	0.10	0.032	O					0.45
14.333	0.00	0.10	0.031	O					0.44
14.417	0.00	0.10	0.030	O					0.43
14.500	0.00	0.10	0.030	O					0.42
14.583	0.00	0.10	0.029	O					0.42
14.667	0.00	0.09	0.028	O					0.41
14.750	0.00	0.09	0.028	O					0.40
14.833	0.00	0.09	0.027	O					0.39
14.917	0.00	0.09	0.027	O					0.38
15.000	0.00	0.09	0.026	O					0.37
15.083	0.00	0.08	0.025	O					0.36
15.167	0.00	0.08	0.025	O					0.35
15.250	0.00	0.08	0.024	O					0.35
15.333	0.00	0.08	0.024	O					0.34
15.417	0.00	0.08	0.023	O					0.33
15.500	0.00	0.07	0.023	O					0.32
15.583	0.00	0.07	0.022	O					0.32
15.667	0.00	0.07	0.022	O					0.31
15.750	0.00	0.07	0.021	O					0.30
15.833	0.00	0.07	0.021	O					0.30
15.917	0.00	0.07	0.020	O					0.29
16.000	0.00	0.06	0.020	O					0.28
16.083	0.00	0.06	0.019	O					0.28
16.167	0.00	0.06	0.019	O					0.27
16.250	0.00	0.06	0.018	O					0.26
16.333	0.00	0.06	0.018	O					0.26
16.417	0.00	0.06	0.018	O					0.25
16.500	0.00	0.06	0.017	O					0.25
16.583	0.00	0.06	0.017	O					0.24
16.667	0.00	0.05	0.017	O					0.24
16.750	0.00	0.05	0.016	O					0.23
16.833	0.00	0.05	0.016	O					0.23
16.917	0.00	0.05	0.015	O					0.22
17.000	0.00	0.05	0.015	O					0.22
17.083	0.00	0.05	0.015	O					0.21
17.167	0.00	0.05	0.014	O					0.21
17.250	0.00	0.05	0.014	O					0.20
17.333	0.00	0.05	0.014	O					0.20
17.417	0.00	0.04	0.013	O					0.19
17.500	0.00	0.04	0.013	O					0.19
17.583	0.00	0.04	0.013	O					0.18
17.667	0.00	0.04	0.013	O					0.18
17.750	0.00	0.04	0.012	O					0.18
17.833	0.00	0.04	0.012	O					0.17
17.917	0.00	0.04	0.012	O					0.17
18.000	0.00	0.04	0.011	O					0.16
18.083	0.00	0.04	0.011	O					0.16
18.167	0.00	0.04	0.011	O					0.16
18.250	0.00	0.04	0.011	O					0.15
18.333	0.00	0.03	0.010	O					0.15
18.417	0.00	0.03	0.010	O					0.15
18.500	0.00	0.03	0.010	O					0.14
18.583	0.00	0.03	0.010	O					0.14
18.667	0.00	0.03	0.010	O					0.14
18.750	0.00	0.03	0.009	O					0.13
18.833	0.00	0.03	0.009	O					0.13
18.917	0.00	0.03	0.009	O					0.13

19.000	0.00	0.03	0.009	O					0.13
19.083	0.00	0.03	0.009	O					0.12
19.167	0.00	0.03	0.008	O					0.12
19.250	0.00	0.03	0.008	O					0.12
19.333	0.00	0.03	0.008	O					0.11
19.417	0.00	0.03	0.008	O					0.11
19.500	0.00	0.03	0.008	O					0.11
19.583	0.00	0.02	0.007	O					0.11
19.667	0.00	0.02	0.007	O					0.10
19.750	0.00	0.02	0.007	O					0.10
19.833	0.00	0.02	0.007	O					0.10
19.917	0.00	0.02	0.007	O					0.10
20.000	0.00	0.02	0.007	O					0.10
20.083	0.00	0.02	0.007	O					0.09
20.167	0.00	0.02	0.006	O					0.09
20.250	0.00	0.02	0.006	O					0.09
20.333	0.00	0.02	0.006	O					0.09
20.417	0.00	0.02	0.006	O					0.09
20.500	0.00	0.02	0.006	O					0.08
20.583	0.00	0.02	0.006	O					0.08
20.667	0.00	0.02	0.006	O					0.08
20.750	0.00	0.02	0.005	O					0.08
20.833	0.00	0.02	0.005	O					0.08
20.917	0.00	0.02	0.005	O					0.07
21.000	0.00	0.02	0.005	O					0.07
21.083	0.00	0.02	0.005	O					0.07
21.167	0.00	0.02	0.005	O					0.07
21.250	0.00	0.02	0.005	O					0.07
21.333	0.00	0.02	0.005	O					0.07
21.417	0.00	0.01	0.005	O					0.06
21.500	0.00	0.01	0.004	O					0.06
21.583	0.00	0.01	0.004	O					0.06
21.667	0.00	0.01	0.004	O					0.06
21.750	0.00	0.01	0.004	O					0.06
21.833	0.00	0.01	0.004	O					0.06
21.917	0.00	0.01	0.004	O					0.06
22.000	0.00	0.01	0.004	O					0.06
22.083	0.00	0.01	0.004	O					0.05
22.167	0.00	0.01	0.004	O					0.05
22.250	0.00	0.01	0.004	O					0.05
22.333	0.00	0.01	0.004	O					0.05
22.417	0.00	0.01	0.003	O					0.05
22.500	0.00	0.01	0.003	O					0.05
22.583	0.00	0.01	0.003	O					0.05
22.667	0.00	0.01	0.003	O					0.05
22.750	0.00	0.01	0.003	O					0.05
22.833	0.00	0.01	0.003	O					0.04
22.917	0.00	0.01	0.003	O					0.04
23.000	0.00	0.01	0.003	O					0.04
23.083	0.00	0.01	0.003	O					0.04
23.167	0.00	0.01	0.003	O					0.04
23.250	0.00	0.01	0.003	O					0.04
23.333	0.00	0.01	0.003	O					0.04
23.417	0.00	0.01	0.003	O					0.04
23.500	0.00	0.01	0.003	O					0.04
23.583	0.00	0.01	0.003	O					0.04
23.667	0.00	0.01	0.002	O					0.04
23.750	0.00	0.01	0.002	O					0.03
23.833	0.00	0.01	0.002	O					0.03
23.917	0.00	0.01	0.002	O					0.03

24.000	0.00	0.01	0.002	O	|	|	|	0.03
24.083	0.00	0.01	0.002	O	|	|	|	0.03
24.167	0.00	0.01	0.002	O	|	|	|	0.03
24.250	0.00	0.01	0.002	O	|	|	|	0.03
24.333	0.00	0.01	0.002	O	|	|	|	0.03
24.417	0.00	0.01	0.002	O	|	|	|	0.03
24.500	0.00	0.01	0.002	O	|	|	|	0.03
24.583	0.00	0.01	0.002	O	|	|	|	0.03
24.667	0.00	0.01	0.002	O	|	|	|	0.03
24.750	0.00	0.01	0.002	O	|	|	|	0.03
24.833	0.00	0.01	0.002	O	|	|	|	0.03
24.917	0.00	0.01	0.002	O	|	|	|	0.03
25.000	0.00	0.01	0.002	O	|	|	|	0.02
25.083	0.00	0.01	0.002	O	|	|	|	0.02
25.167	0.00	0.01	0.002	O	|	|	|	0.02
25.250	0.00	0.01	0.002	O	|	|	|	0.02
25.333	0.00	0.01	0.002	O	|	|	|	0.02
25.417	0.00	0.01	0.002	O	|	|	|	0.02
25.500	0.00	0.00	0.001	O	|	|	|	0.02
25.583	0.00	0.00	0.001	O	|	|	|	0.02
25.667	0.00	0.00	0.001	O	|	|	|	0.02
25.750	0.00	0.00	0.001	O	|	|	|	0.02
25.833	0.00	0.00	0.001	O	|	|	|	0.02
25.917	0.00	0.00	0.001	O	|	|	|	0.02
26.000	0.00	0.00	0.001	O	|	|	|	0.02
26.083	0.00	0.00	0.001	O	|	|	|	0.02
26.167	0.00	0.00	0.001	O	|	|	|	0.02
26.250	0.00	0.00	0.001	O	|	|	|	0.02
26.333	0.00	0.00	0.001	O	|	|	|	0.02
26.417	0.00	0.00	0.001	O	|	|	|	0.02
26.500	0.00	0.00	0.001	O	|	|	|	0.02
26.583	0.00	0.00	0.001	O	|	|	|	0.02
26.667	0.00	0.00	0.001	O	|	|	|	0.02
26.750	0.00	0.00	0.001	O	|	|	|	0.02
26.833	0.00	0.00	0.001	O	|	|	|	0.01
26.917	0.00	0.00	0.001	O	|	|	|	0.01
27.000	0.00	0.00	0.001	O	|	|	|	0.01
27.083	0.00	0.00	0.001	O	|	|	|	0.01
27.167	0.00	0.00	0.001	O	|	|	|	0.01
27.250	0.00	0.00	0.001	O	|	|	|	0.01
27.333	0.00	0.00	0.001	O	|	|	|	0.01
27.417	0.00	0.00	0.001	O	|	|	|	0.01
27.500	0.00	0.00	0.001	O	|	|	|	0.01
27.583	0.00	0.00	0.001	O	|	|	|	0.01
27.667	0.00	0.00	0.001	O	|	|	|	0.01
27.750	0.00	0.00	0.001	O	|	|	|	0.01
27.833	0.00	0.00	0.001	O	|	|	|	0.01
27.917	0.00	0.00	0.001	O	|	|	|	0.01
28.000	0.00	0.00	0.001	O	|	|	|	0.01
28.083	0.00	0.00	0.001	O	|	|	|	0.01
28.167	0.00	0.00	0.001	O	|	|	|	0.01
28.250	0.00	0.00	0.001	O	|	|	|	0.01
28.333	0.00	0.00	0.001	O	|	|	|	0.01
28.417	0.00	0.00	0.001	O	|	|	|	0.01
28.500	0.00	0.00	0.001	O	|	|	|	0.01
28.583	0.00	0.00	0.001	O	|	|	|	0.01
28.667	0.00	0.00	0.001	O	|	|	|	0.01
28.750	0.00	0.00	0.001	O	|	|	|	0.01
28.833	0.00	0.00	0.001	O	|	|	|	0.01
28.917	0.00	0.00	0.001	O	|	|	|	0.01

29.000	0.00	0.00	0.001	O	|	|	|	|	0.01
29.083	0.00	0.00	0.001	O	|	|	|	|	0.01
29.167	0.00	0.00	0.001	O	|	|	|	|	0.01
29.250	0.00	0.00	0.001	O	|	|	|	|	0.01
29.333	0.00	0.00	0.001	O	|	|	|	|	0.01
29.417	0.00	0.00	0.001	O	|	|	|	|	0.01
29.500	0.00	0.00	0.001	O	|	|	|	|	0.01
29.583	0.00	0.00	0.000	O	|	|	|	|	0.01
29.667	0.00	0.00	0.000	O	|	|	|	|	0.01
29.750	0.00	0.00	0.000	O	|	|	|	|	0.01
29.833	0.00	0.00	0.000	O	|	|	|	|	0.01
29.917	0.00	0.00	0.000	O	|	|	|	|	0.01
30.000	0.00	0.00	0.000	O	|	|	|	|	0.01
30.083	0.00	0.00	0.000	O	|	|	|	|	0.01
30.167	0.00	0.00	0.000	O	|	|	|	|	0.01
30.250	0.00	0.00	0.000	O	|	|	|	|	0.01
30.333	0.00	0.00	0.000	O	|	|	|	|	0.01
30.417	0.00	0.00	0.000	O	|	|	|	|	0.01
30.500	0.00	0.00	0.000	O	|	|	|	|	0.01
30.583	0.00	0.00	0.000	O	|	|	|	|	0.01
30.667	0.00	0.00	0.000	O	|	|	|	|	0.01
30.750	0.00	0.00	0.000	O	|	|	|	|	0.01
30.833	0.00	0.00	0.000	O	|	|	|	|	0.01
30.917	0.00	0.00	0.000	O	|	|	|	|	0.00
31.000	0.00	0.00	0.000	O	|	|	|	|	0.00
31.083	0.00	0.00	0.000	O	|	|	|	|	0.00
31.167	0.00	0.00	0.000	O	|	|	|	|	0.00
31.250	0.00	0.00	0.000	O	|	|	|	|	0.00
31.333	0.00	0.00	0.000	O	|	|	|	|	0.00
31.417	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 377
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.230 (CFS)
Total volume = 0.280 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
5-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 36
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 5.340 (CFS)
Total volume = 0.417 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 36
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 1.3 2.67 4.01 5.34	Depth (Ft.)
0.083	0.77	0.01	0.003	O I | | | |	0.04
0.167	0.77	0.03	0.008	O I | | | |	0.11
0.250	0.65	0.04	0.012	O I | | | |	0.18
0.333	0.89	0.06	0.017	O I | | | |	0.25
0.417	0.89	0.08	0.023	O I | | | |	0.33
0.500	1.07	0.10	0.029	O I | | | |	0.42
0.583	0.89	0.12	0.035	O I | | | |	0.50
0.667	1.07	0.14	0.041	O I | | | |	0.59
0.750	1.07	0.16	0.047	O I | | | |	0.68
0.833	0.89	0.17	0.053	|O I | | | |	0.76
0.917	0.95	0.19	0.058	|O I | | | |	0.83
1.000	1.07	0.21	0.064	|O I | | | |	0.91
1.083	1.30	0.23	0.070	|O I| | | |	1.00
1.167	1.30	0.23	0.078	|O I| | | |	1.08
1.250	1.30	0.23	0.085	|O I| | | |	1.16
1.333	1.18	0.23	0.092	|O I| | | |	1.24
1.417	1.54	0.23	0.100	|O |I | | |	1.32
1.500	1.60	0.23	0.109	|O |I | | |	1.42
1.583	1.42	0.23	0.118	|O I | | |	1.51
1.667	1.60	0.23	0.127	|O |I | | |	1.61
1.750	1.95	0.23	0.137	|O | I | | |	1.72
1.833	1.84	0.23	0.149	|O | I | | |	1.85
1.917	1.72	0.23	0.159	|O | I | | |	1.96
2.000	1.78	0.23	0.170	|O | I | | |	2.06
2.083	1.84	0.23	0.181	|O | I | | |	2.17
2.167	2.49	0.23	0.194	|O | I | | |	2.29
2.250	3.03	0.23	0.211	|O | | I | |	2.46
2.333	2.07	0.23	0.227	|O | I | | |	2.61
2.417	4.33	0.23	0.248	|O | | | |I |	2.80
2.500	4.69	0.37	0.277	| O | | | I |	3.07
2.583	5.34	0.89	0.307	| O | | | I|	3.35
2.667	3.68	1.30	0.331	| O| | I | |	3.56
2.750	1.18	1.43	0.338	| IO | | |	3.63
2.833	1.07	1.40	0.336	| I O | | |	3.61
2.917	1.07	1.36	0.334	| I O | | |	3.59
3.000	0.36	1.29	0.330	| I O| | | |	3.55
3.083	0.00	1.16	0.322	I O | | | |	3.48
3.167	0.00	1.03	0.315	I O | | | |	3.42
3.250	0.00	0.91	0.308	I O | | | |	3.36
3.333	0.00	0.81	0.302	I O | | | |	3.30
3.417	0.00	0.72	0.297	I O | | | |	3.25
3.500	0.00	0.64	0.292	I O | | | |	3.21
3.583	0.00	0.56	0.288	I O | | | |	3.17
3.667	0.00	0.50	0.284	I O | | | |	3.14
3.750	0.00	0.44	0.281	I O | | | |	3.11
3.833	0.00	0.39	0.278	I O | | | |	3.08
3.917	0.00	0.35	0.276	I O | | | |	3.06

4.000	0.00	0.31	0.274	IO				3.04
4.083	0.00	0.27	0.272	IO				3.02
4.167	0.00	0.24	0.270	IO				3.01
4.250	0.00	0.23	0.268	IO				2.99
4.333	0.00	0.23	0.267	IO				2.98
4.417	0.00	0.23	0.265	IO				2.96
4.500	0.00	0.23	0.263	IO				2.95
4.583	0.00	0.23	0.262	IO				2.93
4.667	0.00	0.23	0.260	IO				2.92
4.750	0.00	0.23	0.259	IO				2.90
4.833	0.00	0.23	0.257	IO				2.89
4.917	0.00	0.23	0.255	IO				2.87
5.000	0.00	0.23	0.254	IO				2.86
5.083	0.00	0.23	0.252	IO				2.84
5.167	0.00	0.23	0.251	IO				2.83
5.250	0.00	0.23	0.249	IO				2.81
5.333	0.00	0.23	0.248	IO				2.80
5.417	0.00	0.23	0.246	IO				2.78
5.500	0.00	0.23	0.244	IO				2.77
5.583	0.00	0.23	0.243	IO				2.75
5.667	0.00	0.23	0.241	IO				2.74
5.750	0.00	0.23	0.240	IO				2.72
5.833	0.00	0.23	0.238	IO				2.71
5.917	0.00	0.23	0.236	IO				2.69
6.000	0.00	0.23	0.235	IO				2.68
6.083	0.00	0.23	0.233	IO				2.66
6.167	0.00	0.23	0.232	IO				2.65
6.250	0.00	0.23	0.230	IO				2.63
6.333	0.00	0.23	0.229	IO				2.62
6.417	0.00	0.23	0.227	IO				2.60
6.500	0.00	0.23	0.225	IO				2.59
6.583	0.00	0.23	0.224	IO				2.57
6.667	0.00	0.23	0.222	IO				2.56
6.750	0.00	0.23	0.221	IO				2.54
6.833	0.00	0.23	0.219	IO				2.53
6.917	0.00	0.23	0.217	IO				2.51
7.000	0.00	0.23	0.216	IO				2.50
7.083	0.00	0.23	0.214	IO				2.48
7.167	0.00	0.23	0.213	IO				2.47
7.250	0.00	0.23	0.211	IO				2.45
7.333	0.00	0.23	0.209	IO				2.44
7.417	0.00	0.23	0.208	IO				2.42
7.500	0.00	0.23	0.206	IO				2.41
7.583	0.00	0.23	0.205	IO				2.39
7.667	0.00	0.23	0.203	IO				2.38
7.750	0.00	0.23	0.202	IO				2.36
7.833	0.00	0.23	0.200	IO				2.35
7.917	0.00	0.23	0.198	IO				2.33
8.000	0.00	0.23	0.197	IO				2.32
8.083	0.00	0.23	0.195	IO				2.30
8.167	0.00	0.23	0.194	IO				2.29
8.250	0.00	0.23	0.192	IO				2.27
8.333	0.00	0.23	0.190	IO				2.26
8.417	0.00	0.23	0.189	IO				2.24
8.500	0.00	0.23	0.187	IO				2.23
8.583	0.00	0.23	0.186	IO				2.21
8.667	0.00	0.23	0.184	IO				2.20
8.750	0.00	0.23	0.183	IO				2.18
8.833	0.00	0.23	0.181	IO				2.17
8.917	0.00	0.23	0.179	IO				2.15

9.000	0.00	0.23	0.178	IO				2.14
9.083	0.00	0.23	0.176	IO				2.12
9.167	0.00	0.23	0.175	IO				2.11
9.250	0.00	0.23	0.173	IO				2.09
9.333	0.00	0.23	0.171	IO				2.08
9.417	0.00	0.23	0.170	IO				2.07
9.500	0.00	0.23	0.168	IO				2.05
9.583	0.00	0.23	0.167	IO				2.04
9.667	0.00	0.23	0.165	IO				2.02
9.750	0.00	0.23	0.164	IO				2.01
9.833	0.00	0.23	0.162	IO				1.99
9.917	0.00	0.23	0.160	IO				1.97
10.000	0.00	0.23	0.159	IO				1.95
10.083	0.00	0.23	0.157	IO				1.94
10.167	0.00	0.23	0.156	IO				1.92
10.250	0.00	0.23	0.154	IO				1.90
10.333	0.00	0.23	0.152	IO				1.89
10.417	0.00	0.23	0.151	IO				1.87
10.500	0.00	0.23	0.149	IO				1.85
10.583	0.00	0.23	0.148	IO				1.84
10.667	0.00	0.23	0.146	IO				1.82
10.750	0.00	0.23	0.145	IO				1.80
10.833	0.00	0.23	0.143	IO				1.78
10.917	0.00	0.23	0.141	IO				1.77
11.000	0.00	0.23	0.140	IO				1.75
11.083	0.00	0.23	0.138	IO				1.73
11.167	0.00	0.23	0.137	IO				1.72
11.250	0.00	0.23	0.135	IO				1.70
11.333	0.00	0.23	0.133	IO				1.68
11.417	0.00	0.23	0.132	IO				1.67
11.500	0.00	0.23	0.130	IO				1.65
11.583	0.00	0.23	0.129	IO				1.63
11.667	0.00	0.23	0.127	IO				1.61
11.750	0.00	0.23	0.126	IO				1.60
11.833	0.00	0.23	0.124	IO				1.58
11.917	0.00	0.23	0.122	IO				1.56
12.000	0.00	0.23	0.121	IO				1.55
12.083	0.00	0.23	0.119	IO				1.53
12.167	0.00	0.23	0.118	IO				1.51
12.250	0.00	0.23	0.116	IO				1.50
12.333	0.00	0.23	0.114	IO				1.48
12.417	0.00	0.23	0.113	IO				1.46
12.500	0.00	0.23	0.111	IO				1.44
12.583	0.00	0.23	0.110	IO				1.43
12.667	0.00	0.23	0.108	IO				1.41
12.750	0.00	0.23	0.107	IO				1.39
12.833	0.00	0.23	0.105	IO				1.38
12.917	0.00	0.23	0.103	IO				1.36
13.000	0.00	0.23	0.102	IO				1.34
13.083	0.00	0.23	0.100	IO				1.32
13.167	0.00	0.23	0.099	IO				1.31
13.250	0.00	0.23	0.097	IO				1.29
13.333	0.00	0.23	0.095	IO				1.27
13.417	0.00	0.23	0.094	IO				1.26
13.500	0.00	0.23	0.092	IO				1.24
13.583	0.00	0.23	0.091	IO				1.22
13.667	0.00	0.23	0.089	IO				1.21
13.750	0.00	0.23	0.088	IO				1.19
13.833	0.00	0.23	0.086	IO				1.17
13.917	0.00	0.23	0.084	IO				1.15

14.000	0.00	0.23	0.083	IO				1.14
14.083	0.00	0.23	0.081	IO				1.12
14.167	0.00	0.23	0.080	IO				1.10
14.250	0.00	0.23	0.078	IO				1.09
14.333	0.00	0.23	0.076	IO				1.07
14.417	0.00	0.23	0.075	IO				1.05
14.500	0.00	0.23	0.073	IO				1.04
14.583	0.00	0.23	0.072	IO				1.02
14.667	0.00	0.23	0.070	IO				1.00
14.750	0.00	0.23	0.069	IO				0.98
14.833	0.00	0.22	0.067	IO				0.96
14.917	0.00	0.22	0.066	IO				0.94
15.000	0.00	0.21	0.064	IO				0.91
15.083	0.00	0.21	0.063	IO				0.89
15.167	0.00	0.20	0.061	IO				0.87
15.250	0.00	0.20	0.060	IO				0.85
15.333	0.00	0.19	0.058	IO				0.84
15.417	0.00	0.19	0.057	IO				0.82
15.500	0.00	0.18	0.056	IO				0.80
15.583	0.00	0.18	0.055	IO				0.78
15.667	0.00	0.18	0.053	IO				0.76
15.750	0.00	0.17	0.052	IO				0.75
15.833	0.00	0.17	0.051	IO				0.73
15.917	0.00	0.16	0.050	O				0.71
16.000	0.00	0.16	0.049	O				0.70
16.083	0.00	0.16	0.048	O				0.68
16.167	0.00	0.15	0.047	O				0.67
16.250	0.00	0.15	0.046	O				0.65
16.333	0.00	0.15	0.045	O				0.64
16.417	0.00	0.14	0.044	O				0.62
16.500	0.00	0.14	0.043	O				0.61
16.583	0.00	0.14	0.042	O				0.60
16.667	0.00	0.13	0.041	O				0.58
16.750	0.00	0.13	0.040	O				0.57
16.833	0.00	0.13	0.039	O				0.56
16.917	0.00	0.13	0.038	O				0.54
17.000	0.00	0.12	0.037	O				0.53
17.083	0.00	0.12	0.036	O				0.52
17.167	0.00	0.12	0.036	O				0.51
17.250	0.00	0.11	0.035	O				0.50
17.333	0.00	0.11	0.034	O				0.49
17.417	0.00	0.11	0.033	O				0.47
17.500	0.00	0.11	0.032	O				0.46
17.583	0.00	0.10	0.032	O				0.45
17.667	0.00	0.10	0.031	O				0.44
17.750	0.00	0.10	0.030	O				0.43
17.833	0.00	0.10	0.030	O				0.42
17.917	0.00	0.10	0.029	O				0.41
18.000	0.00	0.09	0.028	O				0.41
18.083	0.00	0.09	0.028	O				0.40
18.167	0.00	0.09	0.027	O				0.39
18.250	0.00	0.09	0.026	O				0.38
18.333	0.00	0.09	0.026	O				0.37
18.417	0.00	0.08	0.025	O				0.36
18.500	0.00	0.08	0.025	O				0.35
18.583	0.00	0.08	0.024	O				0.35
18.667	0.00	0.08	0.024	O				0.34
18.750	0.00	0.08	0.023	O				0.33
18.833	0.00	0.07	0.023	O				0.32
18.917	0.00	0.07	0.022	O				0.32

19.000	0.00	0.07	0.022	O	|	|	|	0.31
19.083	0.00	0.07	0.021	O	|	|	|	0.30
19.167	0.00	0.07	0.021	O	|	|	|	0.30
19.250	0.00	0.07	0.020	O	|	|	|	0.29
19.333	0.00	0.06	0.020	O	|	|	|	0.28
19.417	0.00	0.06	0.019	O	|	|	|	0.28
19.500	0.00	0.06	0.019	O	|	|	|	0.27
19.583	0.00	0.06	0.018	O	|	|	|	0.26
19.667	0.00	0.06	0.018	O	|	|	|	0.26
19.750	0.00	0.06	0.018	O	|	|	|	0.25
19.833	0.00	0.06	0.017	O	|	|	|	0.25
19.917	0.00	0.06	0.017	O	|	|	|	0.24
20.000	0.00	0.05	0.016	O	|	|	|	0.24
20.083	0.00	0.05	0.016	O	|	|	|	0.23
20.167	0.00	0.05	0.016	O	|	|	|	0.22
20.250	0.00	0.05	0.015	O	|	|	|	0.22
20.333	0.00	0.05	0.015	O	|	|	|	0.21
20.417	0.00	0.05	0.015	O	|	|	|	0.21
20.500	0.00	0.05	0.014	O	|	|	|	0.21
20.583	0.00	0.05	0.014	O	|	|	|	0.20
20.667	0.00	0.05	0.014	O	|	|	|	0.20
20.750	0.00	0.04	0.013	O	|	|	|	0.19
20.833	0.00	0.04	0.013	O	|	|	|	0.19
20.917	0.00	0.04	0.013	O	|	|	|	0.18
21.000	0.00	0.04	0.013	O	|	|	|	0.18
21.083	0.00	0.04	0.012	O	|	|	|	0.18
21.167	0.00	0.04	0.012	O	|	|	|	0.17
21.250	0.00	0.04	0.012	O	|	|	|	0.17
21.333	0.00	0.04	0.011	O	|	|	|	0.16
21.417	0.00	0.04	0.011	O	|	|	|	0.16
21.500	0.00	0.04	0.011	O	|	|	|	0.16
21.583	0.00	0.04	0.011	O	|	|	|	0.15
21.667	0.00	0.03	0.010	O	|	|	|	0.15
21.750	0.00	0.03	0.010	O	|	|	|	0.15
21.833	0.00	0.03	0.010	O	|	|	|	0.14
21.917	0.00	0.03	0.010	O	|	|	|	0.14
22.000	0.00	0.03	0.010	O	|	|	|	0.14
22.083	0.00	0.03	0.009	O	|	|	|	0.13
22.167	0.00	0.03	0.009	O	|	|	|	0.13
22.250	0.00	0.03	0.009	O	|	|	|	0.13
22.333	0.00	0.03	0.009	O	|	|	|	0.12
22.417	0.00	0.03	0.009	O	|	|	|	0.12
22.500	0.00	0.03	0.008	O	|	|	|	0.12
22.583	0.00	0.03	0.008	O	|	|	|	0.12
22.667	0.00	0.03	0.008	O	|	|	|	0.11
22.750	0.00	0.03	0.008	O	|	|	|	0.11
22.833	0.00	0.03	0.008	O	|	|	|	0.11
22.917	0.00	0.02	0.007	O	|	|	|	0.11
23.000	0.00	0.02	0.007	O	|	|	|	0.10
23.083	0.00	0.02	0.007	O	|	|	|	0.10
23.167	0.00	0.02	0.007	O	|	|	|	0.10
23.250	0.00	0.02	0.007	O	|	|	|	0.10
23.333	0.00	0.02	0.007	O	|	|	|	0.10
23.417	0.00	0.02	0.007	O	|	|	|	0.09
23.500	0.00	0.02	0.006	O	|	|	|	0.09
23.583	0.00	0.02	0.006	O	|	|	|	0.09
23.667	0.00	0.02	0.006	O	|	|	|	0.09
23.750	0.00	0.02	0.006	O	|	|	|	0.08
23.833	0.00	0.02	0.006	O	|	|	|	0.08
23.917	0.00	0.02	0.006	O	|	|	|	0.08

24.000	0.00	0.02	0.006	O	|	|	|	0.08
24.083	0.00	0.02	0.005	O	|	|	|	0.08
24.167	0.00	0.02	0.005	O	|	|	|	0.08
24.250	0.00	0.02	0.005	O	|	|	|	0.07
24.333	0.00	0.02	0.005	O	|	|	|	0.07
24.417	0.00	0.02	0.005	O	|	|	|	0.07
24.500	0.00	0.02	0.005	O	|	|	|	0.07
24.583	0.00	0.02	0.005	O	|	|	|	0.07
24.667	0.00	0.02	0.005	O	|	|	|	0.07
24.750	0.00	0.01	0.005	O	|	|	|	0.06
24.833	0.00	0.01	0.004	O	|	|	|	0.06
24.917	0.00	0.01	0.004	O	|	|	|	0.06
25.000	0.00	0.01	0.004	O	|	|	|	0.06
25.083	0.00	0.01	0.004	O	|	|	|	0.06
25.167	0.00	0.01	0.004	O	|	|	|	0.06
25.250	0.00	0.01	0.004	O	|	|	|	0.06
25.333	0.00	0.01	0.004	O	|	|	|	0.06
25.417	0.00	0.01	0.004	O	|	|	|	0.05
25.500	0.00	0.01	0.004	O	|	|	|	0.05
25.583	0.00	0.01	0.004	O	|	|	|	0.05
25.667	0.00	0.01	0.004	O	|	|	|	0.05
25.750	0.00	0.01	0.003	O	|	|	|	0.05
25.833	0.00	0.01	0.003	O	|	|	|	0.05
25.917	0.00	0.01	0.003	O	|	|	|	0.05
26.000	0.00	0.01	0.003	O	|	|	|	0.05
26.083	0.00	0.01	0.003	O	|	|	|	0.05
26.167	0.00	0.01	0.003	O	|	|	|	0.04
26.250	0.00	0.01	0.003	O	|	|	|	0.04
26.333	0.00	0.01	0.003	O	|	|	|	0.04
26.417	0.00	0.01	0.003	O	|	|	|	0.04
26.500	0.00	0.01	0.003	O	|	|	|	0.04
26.583	0.00	0.01	0.003	O	|	|	|	0.04
26.667	0.00	0.01	0.003	O	|	|	|	0.04
26.750	0.00	0.01	0.003	O	|	|	|	0.04
26.833	0.00	0.01	0.003	O	|	|	|	0.04
26.917	0.00	0.01	0.003	O	|	|	|	0.04
27.000	0.00	0.01	0.002	O	|	|	|	0.04
27.083	0.00	0.01	0.002	O	|	|	|	0.03
27.167	0.00	0.01	0.002	O	|	|	|	0.03
27.250	0.00	0.01	0.002	O	|	|	|	0.03
27.333	0.00	0.01	0.002	O	|	|	|	0.03
27.417	0.00	0.01	0.002	O	|	|	|	0.03
27.500	0.00	0.01	0.002	O	|	|	|	0.03
27.583	0.00	0.01	0.002	O	|	|	|	0.03
27.667	0.00	0.01	0.002	O	|	|	|	0.03
27.750	0.00	0.01	0.002	O	|	|	|	0.03
27.833	0.00	0.01	0.002	O	|	|	|	0.03
27.917	0.00	0.01	0.002	O	|	|	|	0.03
28.000	0.00	0.01	0.002	O	|	|	|	0.03
28.083	0.00	0.01	0.002	O	|	|	|	0.03
28.167	0.00	0.01	0.002	O	|	|	|	0.03
28.250	0.00	0.01	0.002	O	|	|	|	0.03
28.333	0.00	0.01	0.002	O	|	|	|	0.02
28.417	0.00	0.01	0.002	O	|	|	|	0.02
28.500	0.00	0.01	0.002	O	|	|	|	0.02
28.583	0.00	0.01	0.002	O	|	|	|	0.02
28.667	0.00	0.01	0.002	O	|	|	|	0.02
28.750	0.00	0.01	0.002	O	|	|	|	0.02
28.833	0.00	0.00	0.001	O	|	|	|	0.02
28.917	0.00	0.00	0.001	O	|	|	|	0.02

29.000	0.00	0.00	0.001	O	|	|	|	0.02
29.083	0.00	0.00	0.001	O	|	|	|	0.02
29.167	0.00	0.00	0.001	O	|	|	|	0.02
29.250	0.00	0.00	0.001	O	|	|	|	0.02
29.333	0.00	0.00	0.001	O	|	|	|	0.02
29.417	0.00	0.00	0.001	O	|	|	|	0.02
29.500	0.00	0.00	0.001	O	|	|	|	0.02
29.583	0.00	0.00	0.001	O	|	|	|	0.02
29.667	0.00	0.00	0.001	O	|	|	|	0.02
29.750	0.00	0.00	0.001	O	|	|	|	0.02
29.833	0.00	0.00	0.001	O	|	|	|	0.02
29.917	0.00	0.00	0.001	O	|	|	|	0.02
30.000	0.00	0.00	0.001	O	|	|	|	0.02
30.083	0.00	0.00	0.001	O	|	|	|	0.02
30.167	0.00	0.00	0.001	O	|	|	|	0.01
30.250	0.00	0.00	0.001	O	|	|	|	0.01
30.333	0.00	0.00	0.001	O	|	|	|	0.01
30.417	0.00	0.00	0.001	O	|	|	|	0.01
30.500	0.00	0.00	0.001	O	|	|	|	0.01
30.583	0.00	0.00	0.001	O	|	|	|	0.01
30.667	0.00	0.00	0.001	O	|	|	|	0.01
30.750	0.00	0.00	0.001	O	|	|	|	0.01
30.833	0.00	0.00	0.001	O	|	|	|	0.01
30.917	0.00	0.00	0.001	O	|	|	|	0.01
31.000	0.00	0.00	0.001	O	|	|	|	0.01
31.083	0.00	0.00	0.001	O	|	|	|	0.01
31.167	0.00	0.00	0.001	O	|	|	|	0.01
31.250	0.00	0.00	0.001	O	|	|	|	0.01
31.333	0.00	0.00	0.001	O	|	|	|	0.01
31.417	0.00	0.00	0.001	O	|	|	|	0.01
31.500	0.00	0.00	0.001	O	|	|	|	0.01
31.583	0.00	0.00	0.001	O	|	|	|	0.01
31.667	0.00	0.00	0.001	O	|	|	|	0.01
31.750	0.00	0.00	0.001	O	|	|	|	0.01
31.833	0.00	0.00	0.001	O	|	|	|	0.01
31.917	0.00	0.00	0.001	O	|	|	|	0.01
32.000	0.00	0.00	0.001	O	|	|	|	0.01
32.083	0.00	0.00	0.001	O	|	|	|	0.01
32.167	0.00	0.00	0.001	O	|	|	|	0.01
32.250	0.00	0.00	0.001	O	|	|	|	0.01
32.333	0.00	0.00	0.001	O	|	|	|	0.01
32.417	0.00	0.00	0.001	O	|	|	|	0.01
32.500	0.00	0.00	0.001	O	|	|	|	0.01
32.583	0.00	0.00	0.001	O	|	|	|	0.01
32.667	0.00	0.00	0.001	O	|	|	|	0.01
32.750	0.00	0.00	0.001	O	|	|	|	0.01
32.833	0.00	0.00	0.001	O	|	|	|	0.01
32.917	0.00	0.00	0.000	O	|	|	|	0.01
33.000	0.00	0.00	0.000	O	|	|	|	0.01
33.083	0.00	0.00	0.000	O	|	|	|	0.01
33.167	0.00	0.00	0.000	O	|	|	|	0.01
33.250	0.00	0.00	0.000	O	|	|	|	0.01
33.333	0.00	0.00	0.000	O	|	|	|	0.01
33.417	0.00	0.00	0.000	O	|	|	|	0.01
33.500	0.00	0.00	0.000	O	|	|	|	0.01
33.583	0.00	0.00	0.000	O	|	|	|	0.01
33.667	0.00	0.00	0.000	O	|	|	|	0.01
33.750	0.00	0.00	0.000	O	|	|	|	0.01
33.833	0.00	0.00	0.000	O	|	|	|	0.01
33.917	0.00	0.00	0.000	O	|	|	|	0.01

34.000	0.00	0.00	0.000	O	|	|	|	|	0.01
34.083	0.00	0.00	0.000	O	|	|	|	|	0.01
34.167	0.00	0.00	0.000	O	|	|	|	|	0.01
34.250	0.00	0.00	0.000	O	|	|	|	|	0.00
34.333	0.00	0.00	0.000	O	|	|	|	|	0.00
34.417	0.00	0.00	0.000	O	|	|	|	|	0.00
34.500	0.00	0.00	0.000	O	|	|	|	|	0.00
34.583	0.00	0.00	0.000	O	|	|	|	|	0.00
34.667	0.00	0.00	0.000	O	|	|	|	|	0.00
34.750	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 417
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.433 (CFS)
Total volume = 0.417 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
5-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 72
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 4.703 (CFS)
Total volume = 0.539 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 72
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 1.2 2.35 3.53 4.70	Depth (Ft.)
0.083	0.39	0.00	0.001	O I | | | |	0.02
0.167	0.46	0.01	0.004	O I | | | |	0.06
0.250	0.46	0.02	0.007	O I | | | |	0.10
0.333	0.46	0.03	0.010	O I | | | |	0.15
0.417	0.46	0.04	0.013	O I | | | |	0.19
0.500	0.54	0.05	0.016	O I | | | |	0.23
0.583	0.54	0.06	0.020	O I | | | |	0.28
0.667	0.54	0.08	0.023	O I | | | |	0.33
0.750	0.54	0.09	0.026	O I | | | |	0.37
0.833	0.54	0.10	0.029	O I | | | |	0.42
0.917	0.54	0.11	0.032	O I | | | |	0.46
1.000	0.62	0.12	0.035	O I | | | |	0.51
1.083	0.62	0.13	0.039	O I | | | |	0.56
1.167	0.62	0.14	0.042	O I | | | |	0.60
1.250	0.62	0.15	0.045	|O I | | | |	0.65
1.333	0.62	0.16	0.049	|O I | | | |	0.70
1.417	0.62	0.17	0.052	|O I | | | |	0.74
1.500	0.62	0.18	0.055	|O I | | | |	0.78
1.583	0.62	0.19	0.058	|O I | | | |	0.83
1.667	0.62	0.20	0.061	|O I | | | |	0.87
1.750	0.62	0.21	0.064	|O I | | | |	0.91
1.833	0.62	0.22	0.066	|O I | | | |	0.95
1.917	0.62	0.23	0.069	|O I | | | |	0.99
2.000	0.70	0.23	0.072	|O I | | | |	1.02
2.083	0.62	0.23	0.075	|O I | | | |	1.05
2.167	0.70	0.23	0.078	|O I | | | |	1.09
2.250	0.70	0.23	0.081	|O I | | | |	1.12
2.333	0.70	0.23	0.084	|O I | | | |	1.15
2.417	0.70	0.23	0.088	|O I | | | |	1.19
2.500	0.70	0.23	0.091	|O I | | | |	1.22
2.583	0.70	0.23	0.094	|O I | | | |	1.26
2.667	0.70	0.23	0.097	|O I | | | |	1.29
2.750	0.77	0.23	0.101	|O I | | | |	1.33
2.833	0.77	0.23	0.104	|O I | | | |	1.37
2.917	0.77	0.23	0.108	|O I | | | |	1.41
3.000	0.77	0.23	0.112	|O I | | | |	1.45
3.083	0.77	0.23	0.116	|O I | | | |	1.49
3.167	0.85	0.23	0.120	|O I | | | |	1.53
3.250	0.85	0.23	0.124	|O I | | | |	1.58
3.333	0.85	0.23	0.128	|O I | | | |	1.63
3.417	0.93	0.23	0.133	|O I | | | |	1.68
3.500	1.01	0.23	0.138	|O I | | | |	1.73
3.583	1.08	0.23	0.143	|O I| | | |	1.79
3.667	1.08	0.23	0.149	|O I| | | |	1.85
3.750	1.16	0.23	0.156	|O I| | | |	1.92
3.833	1.16	0.23	0.162	|O I| | | |	1.99
3.917	1.24	0.23	0.169	|O I | | |	2.05

4.000	1.24	0.23	0.176	O	I			2.12
4.083	1.32	0.23	0.183	O	I			2.19
4.167	1.39	0.23	0.190	O	I			2.26
4.250	1.47	0.23	0.199	O	I			2.34
4.333	1.55	0.23	0.208	O	I			2.42
4.417	1.62	0.23	0.217	O	I			2.51
4.500	1.62	0.23	0.226	O	I			2.60
4.583	1.70	0.23	0.236	O	I			2.69
4.667	1.78	0.23	0.247	O	I			2.79
4.750	1.86	0.23	0.258	O	I			2.89
4.833	1.86	0.23	0.269	O	I			3.00
4.917	1.93	0.42	0.280	O	I			3.10
5.000	2.01	0.59	0.290	O	I			3.19
5.083	2.40	0.78	0.300	O	I			3.28
5.167	2.82	0.98	0.312	O	I			3.39
5.250	3.10	1.21	0.325	O	I			3.51
5.333	3.38	1.44	0.338	O	I			3.63
5.417	3.85	1.69	0.352	O	I			3.76
5.500	4.70	1.98	0.369	O	I			3.91
5.583	1.47	2.10	0.376	O	I			3.98
5.667	0.70	1.99	0.370	O	I			3.92
5.750	0.46	1.83	0.361	O	I			3.83
5.833	0.39	1.67	0.352	O	I			3.75
5.917	0.23	1.52	0.343	O	I			3.67
6.000	0.15	1.37	0.334	O	I			3.59
6.083	0.00	1.22	0.326	O	I			3.52
6.167	0.00	1.08	0.318	O	I			3.44
6.250	0.00	0.96	0.311	O	I			3.38
6.333	0.00	0.85	0.305	O	I			3.32
6.417	0.00	0.75	0.299	O	I			3.27
6.500	0.00	0.67	0.294	O	I			3.23
6.583	0.00	0.59	0.290	O	I			3.19
6.667	0.00	0.53	0.286	O	I			3.15
6.750	0.00	0.47	0.283	O	I			3.12
6.833	0.00	0.41	0.279	O	I			3.10
6.917	0.00	0.37	0.277	O	I			3.07
7.000	0.00	0.32	0.274	O	I			3.05
7.083	0.00	0.29	0.272	O	I			3.03
7.167	0.00	0.26	0.270	O	I			3.01
7.250	0.00	0.23	0.269	O	I			3.00
7.333	0.00	0.23	0.267	O	I			2.98
7.417	0.00	0.23	0.266	O	I			2.97
7.500	0.00	0.23	0.264	O	I			2.95
7.583	0.00	0.23	0.262	O	I			2.94
7.667	0.00	0.23	0.261	O	I			2.92
7.750	0.00	0.23	0.259	O	I			2.91
7.833	0.00	0.23	0.258	O	I			2.89
7.917	0.00	0.23	0.256	O	I			2.88
8.000	0.00	0.23	0.255	O	I			2.86
8.083	0.00	0.23	0.253	O	I			2.85
8.167	0.00	0.23	0.251	O	I			2.83
8.250	0.00	0.23	0.250	O	I			2.82
8.333	0.00	0.23	0.248	O	I			2.80
8.417	0.00	0.23	0.247	O	I			2.79
8.500	0.00	0.23	0.245	O	I			2.77
8.583	0.00	0.23	0.243	O	I			2.76
8.667	0.00	0.23	0.242	O	I			2.74
8.750	0.00	0.23	0.240	O	I			2.73
8.833	0.00	0.23	0.239	O	I			2.71
8.917	0.00	0.23	0.237	O	I			2.70

9.000	0.00	0.23	0.236	IO				2.68
9.083	0.00	0.23	0.234	IO				2.67
9.167	0.00	0.23	0.232	IO				2.65
9.250	0.00	0.23	0.231	IO				2.64
9.333	0.00	0.23	0.229	IO				2.62
9.417	0.00	0.23	0.228	IO				2.61
9.500	0.00	0.23	0.226	IO				2.59
9.583	0.00	0.23	0.224	IO				2.58
9.667	0.00	0.23	0.223	IO				2.56
9.750	0.00	0.23	0.221	IO				2.55
9.833	0.00	0.23	0.220	IO				2.53
9.917	0.00	0.23	0.218	IO				2.52
10.000	0.00	0.23	0.216	IO				2.50
10.083	0.00	0.23	0.215	IO				2.49
10.167	0.00	0.23	0.213	IO				2.47
10.250	0.00	0.23	0.212	IO				2.46
10.333	0.00	0.23	0.210	IO				2.44
10.417	0.00	0.23	0.209	IO				2.43
10.500	0.00	0.23	0.207	IO				2.42
10.583	0.00	0.23	0.205	IO				2.40
10.667	0.00	0.23	0.204	IO				2.39
10.750	0.00	0.23	0.202	IO				2.37
10.833	0.00	0.23	0.201	IO				2.36
10.917	0.00	0.23	0.199	IO				2.34
11.000	0.00	0.23	0.197	IO				2.33
11.083	0.00	0.23	0.196	IO				2.31
11.167	0.00	0.23	0.194	IO				2.30
11.250	0.00	0.23	0.193	IO				2.28
11.333	0.00	0.23	0.191	IO				2.27
11.417	0.00	0.23	0.190	IO				2.25
11.500	0.00	0.23	0.188	IO				2.24
11.583	0.00	0.23	0.186	IO				2.22
11.667	0.00	0.23	0.185	IO				2.21
11.750	0.00	0.23	0.183	IO				2.19
11.833	0.00	0.23	0.182	IO				2.18
11.917	0.00	0.23	0.180	IO				2.16
12.000	0.00	0.23	0.178	IO				2.15
12.083	0.00	0.23	0.177	IO				2.13
12.167	0.00	0.23	0.175	IO				2.12
12.250	0.00	0.23	0.174	IO				2.10
12.333	0.00	0.23	0.172	IO				2.09
12.417	0.00	0.23	0.171	IO				2.07
12.500	0.00	0.23	0.169	IO				2.06
12.583	0.00	0.23	0.167	IO				2.04
12.667	0.00	0.23	0.166	IO				2.03
12.750	0.00	0.23	0.164	IO				2.01
12.833	0.00	0.23	0.163	IO				2.00
12.917	0.00	0.23	0.161	IO				1.98
13.000	0.00	0.23	0.159	IO				1.96
13.083	0.00	0.23	0.158	IO				1.95
13.167	0.00	0.23	0.156	IO				1.93
13.250	0.00	0.23	0.155	IO				1.91
13.333	0.00	0.23	0.153	IO				1.89
13.417	0.00	0.23	0.152	IO				1.88
13.500	0.00	0.23	0.150	IO				1.86
13.583	0.00	0.23	0.148	IO				1.84
13.667	0.00	0.23	0.147	IO				1.83
13.750	0.00	0.23	0.145	IO				1.81
13.833	0.00	0.23	0.144	IO				1.79
13.917	0.00	0.23	0.142	IO				1.77

14.000	0.00	0.23	0.140	IO				1.76
14.083	0.00	0.23	0.139	IO				1.74
14.167	0.00	0.23	0.137	IO				1.72
14.250	0.00	0.23	0.136	IO				1.71
14.333	0.00	0.23	0.134	IO				1.69
14.417	0.00	0.23	0.133	IO				1.67
14.500	0.00	0.23	0.131	IO				1.66
14.583	0.00	0.23	0.129	IO				1.64
14.667	0.00	0.23	0.128	IO				1.62
14.750	0.00	0.23	0.126	IO				1.60
14.833	0.00	0.23	0.125	IO				1.59
14.917	0.00	0.23	0.123	IO				1.57
15.000	0.00	0.23	0.121	IO				1.55
15.083	0.00	0.23	0.120	IO				1.54
15.167	0.00	0.23	0.118	IO				1.52
15.250	0.00	0.23	0.117	IO				1.50
15.333	0.00	0.23	0.115	IO				1.49
15.417	0.00	0.23	0.114	IO				1.47
15.500	0.00	0.23	0.112	IO				1.45
15.583	0.00	0.23	0.110	IO				1.43
15.667	0.00	0.23	0.109	IO				1.42
15.750	0.00	0.23	0.107	IO				1.40
15.833	0.00	0.23	0.106	IO				1.38
15.917	0.00	0.23	0.104	IO				1.37
16.000	0.00	0.23	0.102	IO				1.35
16.083	0.00	0.23	0.101	IO				1.33
16.167	0.00	0.23	0.099	IO				1.31
16.250	0.00	0.23	0.098	IO				1.30
16.333	0.00	0.23	0.096	IO				1.28
16.417	0.00	0.23	0.095	IO				1.26
16.500	0.00	0.23	0.093	IO				1.25
16.583	0.00	0.23	0.091	IO				1.23
16.667	0.00	0.23	0.090	IO				1.21
16.750	0.00	0.23	0.088	IO				1.20
16.833	0.00	0.23	0.087	IO				1.18
16.917	0.00	0.23	0.085	IO				1.16
17.000	0.00	0.23	0.083	IO				1.14
17.083	0.00	0.23	0.082	IO				1.13
17.167	0.00	0.23	0.080	IO				1.11
17.250	0.00	0.23	0.079	IO				1.09
17.333	0.00	0.23	0.077	IO				1.08
17.417	0.00	0.23	0.076	IO				1.06
17.500	0.00	0.23	0.074	IO				1.04
17.583	0.00	0.23	0.072	IO				1.03
17.667	0.00	0.23	0.071	IO				1.01
17.750	0.00	0.23	0.069	IO				0.99
17.833	0.00	0.22	0.068	IO				0.97
17.917	0.00	0.22	0.066	IO				0.94
18.000	0.00	0.21	0.065	IO				0.92
18.083	0.00	0.21	0.063	IO				0.90
18.167	0.00	0.20	0.062	IO				0.88
18.250	0.00	0.20	0.060	IO				0.86
18.333	0.00	0.19	0.059	IO				0.84
18.417	0.00	0.19	0.058	IO				0.82
18.500	0.00	0.19	0.056	IO				0.81
18.583	0.00	0.18	0.055	IO				0.79
18.667	0.00	0.18	0.054	IO				0.77
18.750	0.00	0.17	0.053	IO				0.75
18.833	0.00	0.17	0.052	IO				0.74
18.917	0.00	0.17	0.050	IO				0.72

19.000	0.00	0.16	0.049	IO				0.70
19.083	0.00	0.16	0.048	IO				0.69
19.167	0.00	0.15	0.047	IO				0.67
19.250	0.00	0.15	0.046	IO				0.66
19.333	0.00	0.15	0.045	IO				0.64
19.417	0.00	0.14	0.044	O				0.63
19.500	0.00	0.14	0.043	O				0.61
19.583	0.00	0.14	0.042	O				0.60
19.667	0.00	0.14	0.041	O				0.59
19.750	0.00	0.13	0.040	O				0.57
19.833	0.00	0.13	0.039	O				0.56
19.917	0.00	0.13	0.038	O				0.55
20.000	0.00	0.12	0.038	O				0.54
20.083	0.00	0.12	0.037	O				0.52
20.167	0.00	0.12	0.036	O				0.51
20.250	0.00	0.12	0.035	O				0.50
20.333	0.00	0.11	0.034	O				0.49
20.417	0.00	0.11	0.034	O				0.48
20.500	0.00	0.11	0.033	O				0.47
20.583	0.00	0.11	0.032	O				0.46
20.667	0.00	0.10	0.031	O				0.45
20.750	0.00	0.10	0.031	O				0.44
20.833	0.00	0.10	0.030	O				0.43
20.917	0.00	0.10	0.029	O				0.42
21.000	0.00	0.09	0.029	O				0.41
21.083	0.00	0.09	0.028	O				0.40
21.167	0.00	0.09	0.027	O				0.39
21.250	0.00	0.09	0.027	O				0.38
21.333	0.00	0.09	0.026	O				0.37
21.417	0.00	0.08	0.026	O				0.37
21.500	0.00	0.08	0.025	O				0.36
21.583	0.00	0.08	0.024	O				0.35
21.667	0.00	0.08	0.024	O				0.34
21.750	0.00	0.08	0.023	O				0.33
21.833	0.00	0.08	0.023	O				0.33
21.917	0.00	0.07	0.022	O				0.32
22.000	0.00	0.07	0.022	O				0.31
22.083	0.00	0.07	0.021	O				0.30
22.167	0.00	0.07	0.021	O				0.30
22.250	0.00	0.07	0.020	O				0.29
22.333	0.00	0.07	0.020	O				0.28
22.417	0.00	0.06	0.019	O				0.28
22.500	0.00	0.06	0.019	O				0.27
22.583	0.00	0.06	0.019	O				0.27
22.667	0.00	0.06	0.018	O				0.26
22.750	0.00	0.06	0.018	O				0.25
22.833	0.00	0.06	0.017	O				0.25
22.917	0.00	0.06	0.017	O				0.24
23.000	0.00	0.05	0.017	O				0.24
23.083	0.00	0.05	0.016	O				0.23
23.167	0.00	0.05	0.016	O				0.23
23.250	0.00	0.05	0.016	O				0.22
23.333	0.00	0.05	0.015	O				0.22
23.417	0.00	0.05	0.015	O				0.21
23.500	0.00	0.05	0.015	O				0.21
23.583	0.00	0.05	0.014	O				0.20
23.667	0.00	0.05	0.014	O				0.20
23.750	0.00	0.04	0.014	O				0.19
23.833	0.00	0.04	0.013	O				0.19
23.917	0.00	0.04	0.013	O				0.19

24.000	0.00	0.04	0.013	O	|	|	|	0.18
24.083	0.00	0.04	0.012	O	|	|	|	0.18
24.167	0.00	0.04	0.012	O	|	|	|	0.17
24.250	0.00	0.04	0.012	O	|	|	|	0.17
24.333	0.00	0.04	0.012	O	|	|	|	0.17
24.417	0.00	0.04	0.011	O	|	|	|	0.16
24.500	0.00	0.04	0.011	O	|	|	|	0.16
24.583	0.00	0.04	0.011	O	|	|	|	0.15
24.667	0.00	0.03	0.011	O	|	|	|	0.15
24.750	0.00	0.03	0.010	O	|	|	|	0.15
24.833	0.00	0.03	0.010	O	|	|	|	0.14
24.917	0.00	0.03	0.010	O	|	|	|	0.14
25.000	0.00	0.03	0.010	O	|	|	|	0.14
25.083	0.00	0.03	0.009	O	|	|	|	0.13
25.167	0.00	0.03	0.009	O	|	|	|	0.13
25.250	0.00	0.03	0.009	O	|	|	|	0.13
25.333	0.00	0.03	0.009	O	|	|	|	0.13
25.417	0.00	0.03	0.009	O	|	|	|	0.12
25.500	0.00	0.03	0.008	O	|	|	|	0.12
25.583	0.00	0.03	0.008	O	|	|	|	0.12
25.667	0.00	0.03	0.008	O	|	|	|	0.12
25.750	0.00	0.03	0.008	O	|	|	|	0.11
25.833	0.00	0.03	0.008	O	|	|	|	0.11
25.917	0.00	0.02	0.008	O	|	|	|	0.11
26.000	0.00	0.02	0.007	O	|	|	|	0.11
26.083	0.00	0.02	0.007	O	|	|	|	0.10
26.167	0.00	0.02	0.007	O	|	|	|	0.10
26.250	0.00	0.02	0.007	O	|	|	|	0.10
26.333	0.00	0.02	0.007	O	|	|	|	0.10
26.417	0.00	0.02	0.007	O	|	|	|	0.09
26.500	0.00	0.02	0.006	O	|	|	|	0.09
26.583	0.00	0.02	0.006	O	|	|	|	0.09
26.667	0.00	0.02	0.006	O	|	|	|	0.09
26.750	0.00	0.02	0.006	O	|	|	|	0.09
26.833	0.00	0.02	0.006	O	|	|	|	0.08
26.917	0.00	0.02	0.006	O	|	|	|	0.08
27.000	0.00	0.02	0.006	O	|	|	|	0.08
27.083	0.00	0.02	0.005	O	|	|	|	0.08
27.167	0.00	0.02	0.005	O	|	|	|	0.08
27.250	0.00	0.02	0.005	O	|	|	|	0.07
27.333	0.00	0.02	0.005	O	|	|	|	0.07
27.417	0.00	0.02	0.005	O	|	|	|	0.07
27.500	0.00	0.02	0.005	O	|	|	|	0.07
27.583	0.00	0.02	0.005	O	|	|	|	0.07
27.667	0.00	0.02	0.005	O	|	|	|	0.07
27.750	0.00	0.02	0.005	O	|	|	|	0.07
27.833	0.00	0.01	0.004	O	|	|	|	0.06
27.917	0.00	0.01	0.004	O	|	|	|	0.06
28.000	0.00	0.01	0.004	O	|	|	|	0.06
28.083	0.00	0.01	0.004	O	|	|	|	0.06
28.167	0.00	0.01	0.004	O	|	|	|	0.06
28.250	0.00	0.01	0.004	O	|	|	|	0.06
28.333	0.00	0.01	0.004	O	|	|	|	0.06
28.417	0.00	0.01	0.004	O	|	|	|	0.05
28.500	0.00	0.01	0.004	O	|	|	|	0.05
28.583	0.00	0.01	0.004	O	|	|	|	0.05
28.667	0.00	0.01	0.004	O	|	|	|	0.05
28.750	0.00	0.01	0.003	O	|	|	|	0.05
28.833	0.00	0.01	0.003	O	|	|	|	0.05
28.917	0.00	0.01	0.003	O	|	|	|	0.05

29.000	0.00	0.01	0.003	O	|	|	|	0.05
29.083	0.00	0.01	0.003	O	|	|	|	0.05
29.167	0.00	0.01	0.003	O	|	|	|	0.04
29.250	0.00	0.01	0.003	O	|	|	|	0.04
29.333	0.00	0.01	0.003	O	|	|	|	0.04
29.417	0.00	0.01	0.003	O	|	|	|	0.04
29.500	0.00	0.01	0.003	O	|	|	|	0.04
29.583	0.00	0.01	0.003	O	|	|	|	0.04
29.667	0.00	0.01	0.003	O	|	|	|	0.04
29.750	0.00	0.01	0.003	O	|	|	|	0.04
29.833	0.00	0.01	0.003	O	|	|	|	0.04
29.917	0.00	0.01	0.003	O	|	|	|	0.04
30.000	0.00	0.01	0.002	O	|	|	|	0.04
30.083	0.00	0.01	0.002	O	|	|	|	0.03
30.167	0.00	0.01	0.002	O	|	|	|	0.03
30.250	0.00	0.01	0.002	O	|	|	|	0.03
30.333	0.00	0.01	0.002	O	|	|	|	0.03
30.417	0.00	0.01	0.002	O	|	|	|	0.03
30.500	0.00	0.01	0.002	O	|	|	|	0.03
30.583	0.00	0.01	0.002	O	|	|	|	0.03
30.667	0.00	0.01	0.002	O	|	|	|	0.03
30.750	0.00	0.01	0.002	O	|	|	|	0.03
30.833	0.00	0.01	0.002	O	|	|	|	0.03
30.917	0.00	0.01	0.002	O	|	|	|	0.03
31.000	0.00	0.01	0.002	O	|	|	|	0.03
31.083	0.00	0.01	0.002	O	|	|	|	0.03
31.167	0.00	0.01	0.002	O	|	|	|	0.03
31.250	0.00	0.01	0.002	O	|	|	|	0.03
31.333	0.00	0.01	0.002	O	|	|	|	0.02
31.417	0.00	0.01	0.002	O	|	|	|	0.02
31.500	0.00	0.01	0.002	O	|	|	|	0.02
31.583	0.00	0.01	0.002	O	|	|	|	0.02
31.667	0.00	0.01	0.002	O	|	|	|	0.02
31.750	0.00	0.01	0.002	O	|	|	|	0.02
31.833	0.00	0.00	0.002	O	|	|	|	0.02
31.917	0.00	0.00	0.001	O	|	|	|	0.02
32.000	0.00	0.00	0.001	O	|	|	|	0.02
32.083	0.00	0.00	0.001	O	|	|	|	0.02
32.167	0.00	0.00	0.001	O	|	|	|	0.02
32.250	0.00	0.00	0.001	O	|	|	|	0.02
32.333	0.00	0.00	0.001	O	|	|	|	0.02
32.417	0.00	0.00	0.001	O	|	|	|	0.02
32.500	0.00	0.00	0.001	O	|	|	|	0.02
32.583	0.00	0.00	0.001	O	|	|	|	0.02
32.667	0.00	0.00	0.001	O	|	|	|	0.02
32.750	0.00	0.00	0.001	O	|	|	|	0.02
32.833	0.00	0.00	0.001	O	|	|	|	0.02
32.917	0.00	0.00	0.001	O	|	|	|	0.02
33.000	0.00	0.00	0.001	O	|	|	|	0.02
33.083	0.00	0.00	0.001	O	|	|	|	0.02
33.167	0.00	0.00	0.001	O	|	|	|	0.02
33.250	0.00	0.00	0.001	O	|	|	|	0.01
33.333	0.00	0.00	0.001	O	|	|	|	0.01
33.417	0.00	0.00	0.001	O	|	|	|	0.01
33.500	0.00	0.00	0.001	O	|	|	|	0.01
33.583	0.00	0.00	0.001	O	|	|	|	0.01
33.667	0.00	0.00	0.001	O	|	|	|	0.01
33.750	0.00	0.00	0.001	O	|	|	|	0.01
33.833	0.00	0.00	0.001	O	|	|	|	0.01
33.917	0.00	0.00	0.001	O	|	|	|	0.01

34.000	0.00	0.00	0.001	O	|	|	|	|	0.01
34.083	0.00	0.00	0.001	O	|	|	|	|	0.01
34.167	0.00	0.00	0.001	O	|	|	|	|	0.01
34.250	0.00	0.00	0.001	O	|	|	|	|	0.01
34.333	0.00	0.00	0.001	O	|	|	|	|	0.01
34.417	0.00	0.00	0.001	O	|	|	|	|	0.01
34.500	0.00	0.00	0.001	O	|	|	|	|	0.01
34.583	0.00	0.00	0.001	O	|	|	|	|	0.01
34.667	0.00	0.00	0.001	O	|	|	|	|	0.01
34.750	0.00	0.00	0.001	O	|	|	|	|	0.01
34.833	0.00	0.00	0.001	O	|	|	|	|	0.01
34.917	0.00	0.00	0.001	O	|	|	|	|	0.01
35.000	0.00	0.00	0.001	O	|	|	|	|	0.01
35.083	0.00	0.00	0.001	O	|	|	|	|	0.01
35.167	0.00	0.00	0.001	O	|	|	|	|	0.01
35.250	0.00	0.00	0.001	O	|	|	|	|	0.01
35.333	0.00	0.00	0.001	O	|	|	|	|	0.01
35.417	0.00	0.00	0.001	O	|	|	|	|	0.01
35.500	0.00	0.00	0.001	O	|	|	|	|	0.01
35.583	0.00	0.00	0.001	O	|	|	|	|	0.01
35.667	0.00	0.00	0.001	O	|	|	|	|	0.01
35.750	0.00	0.00	0.001	O	|	|	|	|	0.01
35.833	0.00	0.00	0.001	O	|	|	|	|	0.01
35.917	0.00	0.00	0.000	O	|	|	|	|	0.01
36.000	0.00	0.00	0.000	O	|	|	|	|	0.01
36.083	0.00	0.00	0.000	O	|	|	|	|	0.01
36.167	0.00	0.00	0.000	O	|	|	|	|	0.01
36.250	0.00	0.00	0.000	O	|	|	|	|	0.01
36.333	0.00	0.00	0.000	O	|	|	|	|	0.01
36.417	0.00	0.00	0.000	O	|	|	|	|	0.01
36.500	0.00	0.00	0.000	O	|	|	|	|	0.01
36.583	0.00	0.00	0.000	O	|	|	|	|	0.01
36.667	0.00	0.00	0.000	O	|	|	|	|	0.01
36.750	0.00	0.00	0.000	O	|	|	|	|	0.01
36.833	0.00	0.00	0.000	O	|	|	|	|	0.01
36.917	0.00	0.00	0.000	O	|	|	|	|	0.01
37.000	0.00	0.00	0.000	O	|	|	|	|	0.01
37.083	0.00	0.00	0.000	O	|	|	|	|	0.01
37.167	0.00	0.00	0.000	O	|	|	|	|	0.01
37.250	0.00	0.00	0.000	O	|	|	|	|	0.00
37.333	0.00	0.00	0.000	O	|	|	|	|	0.00
37.417	0.00	0.00	0.000	O	|	|	|	|	0.00
37.500	0.00	0.00	0.000	O	|	|	|	|	0.00
37.583	0.00	0.00	0.000	O	|	|	|	|	0.00
37.667	0.00	0.00	0.000	O	|	|	|	|	0.00
37.750	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 453
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.105 (CFS)
Total volume = 0.538 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
5-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 288
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.403 (CFS)
Total volume = 0.852 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 288
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

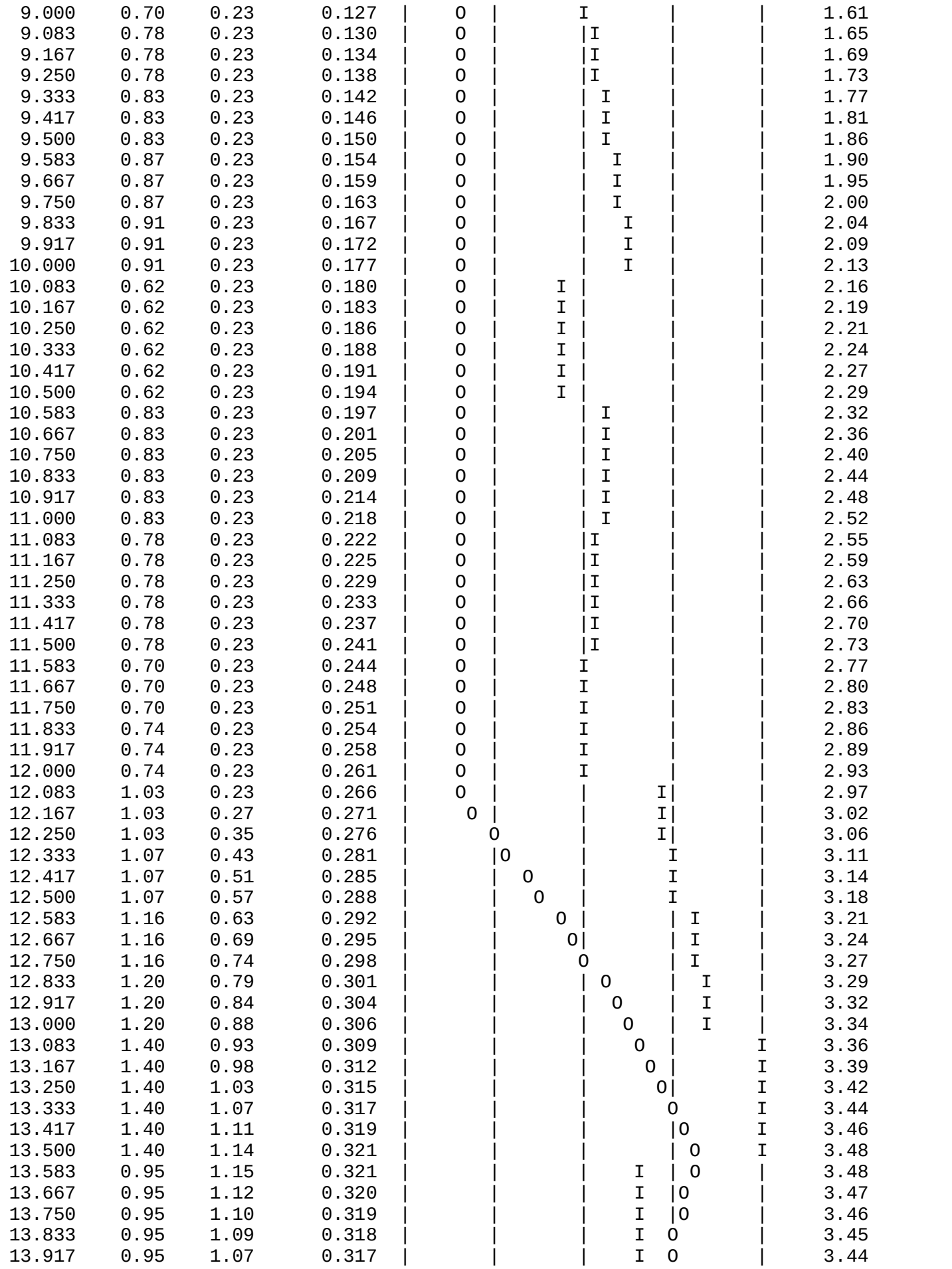
4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

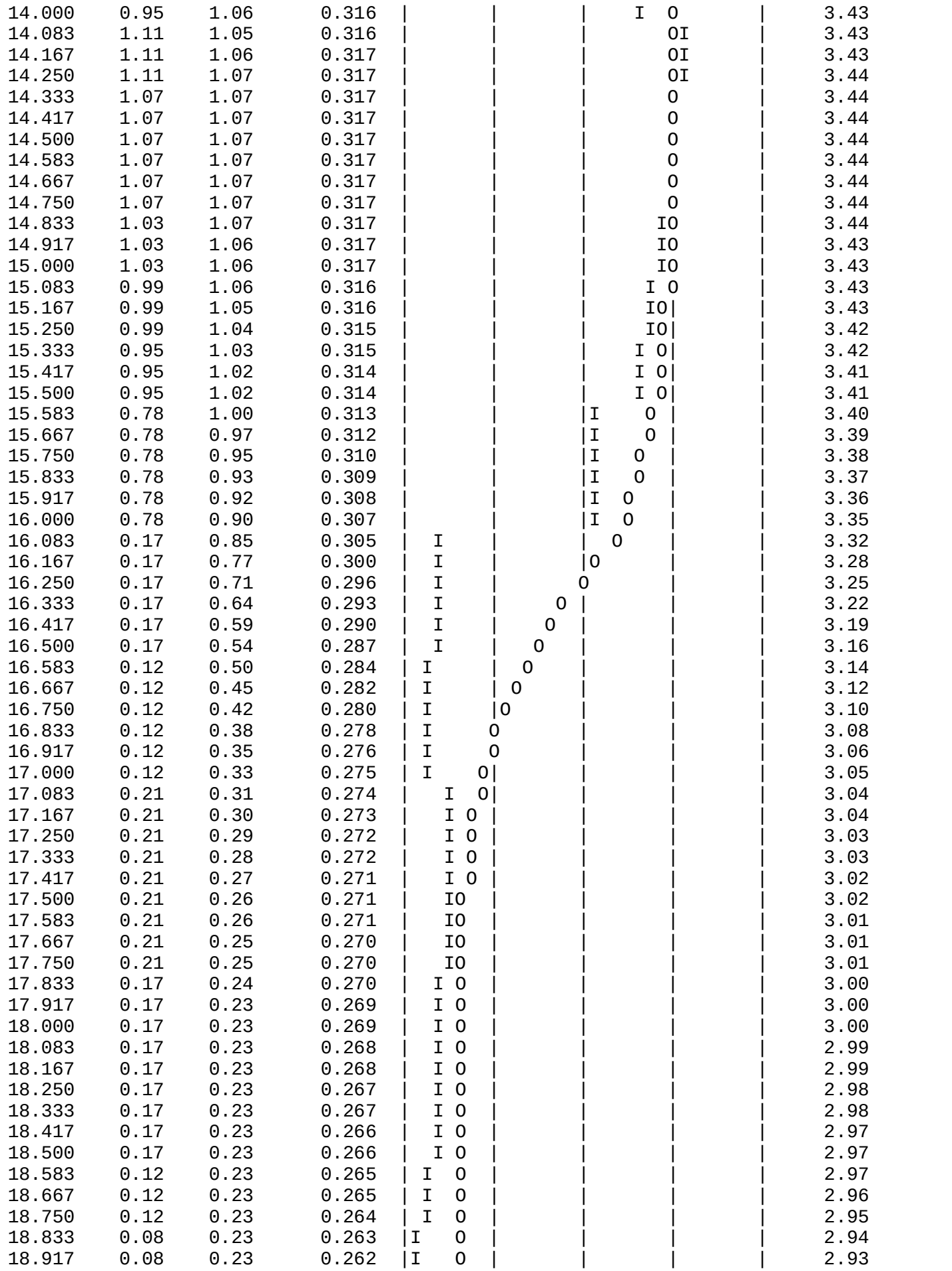
Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 0.4 0.70 1.05 1.40	Depth (Ft.)
0.083	0.08	0.00	0.000	OI | | | |	0.00
0.167	0.08	0.00	0.001	OI | | | |	0.01
0.250	0.08	0.00	0.001	OI | | | |	0.02
0.333	0.12	0.01	0.002	O I | | | |	0.03
0.417	0.12	0.01	0.003	O I | | | |	0.04
0.500	0.12	0.01	0.004	O I | | | |	0.05
0.583	0.12	0.01	0.004	O I | | | |	0.06
0.667	0.12	0.02	0.005	O I | | | |	0.07
0.750	0.12	0.02	0.006	O I | | | |	0.08
0.833	0.17	0.02	0.007	O I | | | |	0.10
0.917	0.17	0.03	0.008	O I | | | |	0.11
1.000	0.17	0.03	0.009	O I | | | |	0.12
1.083	0.12	0.03	0.009	O I | | | |	0.13
1.167	0.12	0.03	0.010	O I | | | |	0.14
1.250	0.12	0.04	0.011	O I | | | |	0.15
1.333	0.12	0.04	0.011	O I | | | |	0.16
1.417	0.12	0.04	0.012	O I | | | |	0.17
1.500	0.12	0.04	0.012	O I | | | |	0.18
1.583	0.12	0.04	0.013	O I | | | |	0.19
1.667	0.12	0.04	0.014	|OI | | | |	0.19
1.750	0.12	0.05	0.014	|OI | | | |	0.20
1.833	0.17	0.05	0.015	|O I | | | |	0.21
1.917	0.17	0.05	0.016	|O I | | | |	0.22
2.000	0.17	0.05	0.016	|O I | | | |	0.23
2.083	0.17	0.06	0.017	|O I | | | |	0.24
2.167	0.17	0.06	0.018	|O I | | | |	0.25
2.250	0.17	0.06	0.019	|O I | | | |	0.27
2.333	0.17	0.06	0.019	|O I | | | |	0.28
2.417	0.17	0.07	0.020	|O I | | | |	0.29
2.500	0.17	0.07	0.021	|O I | | | |	0.29
2.583	0.21	0.07	0.021	|O I | | | |	0.31
2.667	0.21	0.07	0.022	|O I | | | |	0.32
2.750	0.21	0.08	0.023	|O I | | | |	0.33
2.833	0.21	0.08	0.024	|O I | | | |	0.35
2.917	0.21	0.08	0.025	|O I | | | |	0.36
3.000	0.21	0.09	0.026	|O I | | | |	0.37
3.083	0.21	0.09	0.027	| O I | | | |	0.38
3.167	0.21	0.09	0.028	| O I | | | |	0.39
3.250	0.21	0.09	0.028	| O I | | | |	0.40
3.333	0.21	0.10	0.029	| O I | | | |	0.42
3.417	0.21	0.10	0.030	| O I | | | |	0.43
3.500	0.21	0.10	0.031	| O I | | | |	0.44
3.583	0.21	0.10	0.031	| O I | | | |	0.45
3.667	0.21	0.11	0.032	| O I | | | |	0.46
3.750	0.21	0.11	0.033	| O I | | | |	0.47
3.833	0.25	0.11	0.033	| O I | | | |	0.48
3.917	0.25	0.11	0.034	| O I | | | |	0.49

4.000	0.25	0.12	0.035	O I				0.50
4.083	0.25	0.12	0.036	O I				0.52
4.167	0.25	0.12	0.037	O I				0.53
4.250	0.25	0.12	0.038	O I				0.54
4.333	0.29	0.13	0.039	O I				0.56
4.417	0.29	0.13	0.040	O I				0.57
4.500	0.29	0.14	0.041	O I				0.59
4.583	0.29	0.14	0.042	O I				0.60
4.667	0.29	0.14	0.043	O I				0.62
4.750	0.29	0.15	0.044	O I				0.63
4.833	0.33	0.15	0.045	O I				0.65
4.917	0.33	0.15	0.047	O I				0.66
5.000	0.33	0.16	0.048	O I				0.68
5.083	0.25	0.16	0.049	O I				0.69
5.167	0.25	0.16	0.049	O I				0.70
5.250	0.25	0.16	0.050	O I				0.71
5.333	0.29	0.17	0.051	O I				0.72
5.417	0.29	0.17	0.051	O I				0.73
5.500	0.29	0.17	0.052	O I				0.75
5.583	0.33	0.17	0.053	O I				0.76
5.667	0.33	0.18	0.054	O I				0.77
5.750	0.33	0.18	0.055	O I				0.79
5.833	0.33	0.18	0.056	O I				0.80
5.917	0.33	0.19	0.057	O I				0.82
6.000	0.33	0.19	0.058	O I				0.83
6.083	0.37	0.19	0.059	O I				0.85
6.167	0.37	0.20	0.060	O I				0.86
6.250	0.37	0.20	0.062	O I				0.88
6.333	0.37	0.21	0.063	O I				0.90
6.417	0.37	0.21	0.064	O I				0.91
6.500	0.37	0.21	0.065	O I				0.93
6.583	0.41	0.22	0.066	O I				0.95
6.667	0.41	0.22	0.068	O I				0.97
6.750	0.41	0.23	0.069	O I				0.98
6.833	0.41	0.23	0.070	O I				1.00
6.917	0.41	0.23	0.071	O I				1.01
7.000	0.41	0.23	0.073	O I				1.03
7.083	0.41	0.23	0.074	O I				1.04
7.167	0.41	0.23	0.075	O I				1.06
7.250	0.41	0.23	0.076	O I				1.07
7.333	0.45	0.23	0.078	O I				1.08
7.417	0.45	0.23	0.079	O I				1.10
7.500	0.45	0.23	0.081	O I				1.12
7.583	0.50	0.23	0.083	O I				1.14
7.667	0.50	0.23	0.084	O I				1.16
7.750	0.50	0.23	0.086	O I				1.17
7.833	0.54	0.23	0.088	O I				1.20
7.917	0.54	0.23	0.090	O I				1.22
8.000	0.54	0.23	0.092	O I				1.24
8.083	0.62	0.23	0.095	O	I			1.27
8.167	0.62	0.23	0.098	O	I			1.30
8.250	0.62	0.23	0.100	O	I			1.32
8.333	0.62	0.23	0.103	O	I			1.35
8.417	0.62	0.23	0.106	O	I			1.38
8.500	0.62	0.23	0.108	O	I			1.41
8.583	0.66	0.23	0.111	O	I			1.44
8.667	0.66	0.23	0.114	O	I			1.47
8.750	0.66	0.23	0.117	O	I			1.50
8.833	0.70	0.23	0.120	O	I			1.54
8.917	0.70	0.23	0.123	O	I			1.57





19.000	0.08	0.23	0.261	I O				2.92
19.083	0.12	0.23	0.260	I O				2.92
19.167	0.12	0.23	0.259	I O				2.91
19.250	0.12	0.23	0.259	I O				2.90
19.333	0.17	0.23	0.258	I O				2.90
19.417	0.17	0.23	0.258	I O				2.89
19.500	0.17	0.23	0.257	I O				2.89
19.583	0.12	0.23	0.257	I O				2.88
19.667	0.12	0.23	0.256	I O				2.88
19.750	0.12	0.23	0.255	I O				2.87
19.833	0.08	0.23	0.254	I O				2.86
19.917	0.08	0.23	0.253	I O				2.85
20.000	0.08	0.23	0.252	I O				2.84
20.083	0.12	0.23	0.251	I O				2.83
20.167	0.12	0.23	0.251	I O				2.83
20.250	0.12	0.23	0.250	I O				2.82
20.333	0.12	0.23	0.249	I O				2.81
20.417	0.12	0.23	0.248	I O				2.81
20.500	0.12	0.23	0.248	I O				2.80
20.583	0.12	0.23	0.247	I O				2.79
20.667	0.12	0.23	0.246	I O				2.78
20.750	0.12	0.23	0.245	I O				2.78
20.833	0.08	0.23	0.245	I O				2.77
20.917	0.08	0.23	0.244	I O				2.76
21.000	0.08	0.23	0.243	I O				2.75
21.083	0.12	0.23	0.242	I O				2.74
21.167	0.12	0.23	0.241	I O				2.74
21.250	0.12	0.23	0.240	I O				2.73
21.333	0.08	0.23	0.239	I O				2.72
21.417	0.08	0.23	0.238	I O				2.71
21.500	0.08	0.23	0.237	I O				2.70
21.583	0.12	0.23	0.236	I O				2.69
21.667	0.12	0.23	0.236	I O				2.69
21.750	0.12	0.23	0.235	I O				2.68
21.833	0.08	0.23	0.234	I O				2.67
21.917	0.08	0.23	0.233	I O				2.66
22.000	0.08	0.23	0.232	I O				2.65
22.083	0.12	0.23	0.231	I O				2.64
22.167	0.12	0.23	0.230	I O				2.64
22.250	0.12	0.23	0.230	I O				2.63
22.333	0.08	0.23	0.229	I O				2.62
22.417	0.08	0.23	0.228	I O				2.61
22.500	0.08	0.23	0.227	I O				2.60
22.583	0.08	0.23	0.226	I O				2.59
22.667	0.08	0.23	0.225	I O				2.58
22.750	0.08	0.23	0.224	I O				2.57
22.833	0.08	0.23	0.223	I O				2.56
22.917	0.08	0.23	0.222	I O				2.55
23.000	0.08	0.23	0.221	I O				2.54
23.083	0.08	0.23	0.220	I O				2.53
23.167	0.08	0.23	0.219	I O				2.53
23.250	0.08	0.23	0.218	I O				2.52
23.333	0.08	0.23	0.217	I O				2.51
23.417	0.08	0.23	0.216	I O				2.50
23.500	0.08	0.23	0.215	I O				2.49
23.583	0.08	0.23	0.214	I O				2.48
23.667	0.08	0.23	0.213	I O				2.47
23.750	0.08	0.23	0.212	I O				2.46
23.833	0.08	0.23	0.211	I O				2.45
23.917	0.08	0.23	0.210	I O				2.44

24.000	0.08	0.23	0.209	|I	O	|	|	|	2.43
24.083	0.00	0.23	0.207	I	O	|	|	|	2.42
24.167	0.00	0.23	0.206	I	O	|	|	|	2.40
24.250	0.00	0.23	0.204	I	O	|	|	|	2.39
24.333	0.00	0.23	0.202	I	O	|	|	|	2.37
24.417	0.00	0.23	0.201	I	O	|	|	|	2.36
24.500	0.00	0.23	0.199	I	O	|	|	|	2.34
24.583	0.00	0.23	0.198	I	O	|	|	|	2.33
24.667	0.00	0.23	0.196	I	O	|	|	|	2.31
24.750	0.00	0.23	0.195	I	O	|	|	|	2.30
24.833	0.00	0.23	0.193	I	O	|	|	|	2.28
24.917	0.00	0.23	0.191	I	O	|	|	|	2.27
25.000	0.00	0.23	0.190	I	O	|	|	|	2.25
25.083	0.00	0.23	0.188	I	O	|	|	|	2.24
25.167	0.00	0.23	0.187	I	O	|	|	|	2.22
25.250	0.00	0.23	0.185	I	O	|	|	|	2.21
25.333	0.00	0.23	0.183	I	O	|	|	|	2.19
25.417	0.00	0.23	0.182	I	O	|	|	|	2.18
25.500	0.00	0.23	0.180	I	O	|	|	|	2.16
25.583	0.00	0.23	0.179	I	O	|	|	|	2.15
25.667	0.00	0.23	0.177	I	O	|	|	|	2.13
25.750	0.00	0.23	0.176	I	O	|	|	|	2.12
25.833	0.00	0.23	0.174	I	O	|	|	|	2.10
25.917	0.00	0.23	0.172	I	O	|	|	|	2.09
26.000	0.00	0.23	0.171	I	O	|	|	|	2.07
26.083	0.00	0.23	0.169	I	O	|	|	|	2.06
26.167	0.00	0.23	0.168	I	O	|	|	|	2.04
26.250	0.00	0.23	0.166	I	O	|	|	|	2.03
26.333	0.00	0.23	0.164	I	O	|	|	|	2.01
26.417	0.00	0.23	0.163	I	O	|	|	|	2.00
26.500	0.00	0.23	0.161	I	O	|	|	|	1.98
26.583	0.00	0.23	0.160	I	O	|	|	|	1.96
26.667	0.00	0.23	0.158	I	O	|	|	|	1.95
26.750	0.00	0.23	0.157	I	O	|	|	|	1.93
26.833	0.00	0.23	0.155	I	O	|	|	|	1.91
26.917	0.00	0.23	0.153	I	O	|	|	|	1.90
27.000	0.00	0.23	0.152	I	O	|	|	|	1.88
27.083	0.00	0.23	0.150	I	O	|	|	|	1.86
27.167	0.00	0.23	0.149	I	O	|	|	|	1.85
27.250	0.00	0.23	0.147	I	O	|	|	|	1.83
27.333	0.00	0.23	0.145	I	O	|	|	|	1.81
27.417	0.00	0.23	0.144	I	O	|	|	|	1.79
27.500	0.00	0.23	0.142	I	O	|	|	|	1.78
27.583	0.00	0.23	0.141	I	O	|	|	|	1.76
27.667	0.00	0.23	0.139	I	O	|	|	|	1.74
27.750	0.00	0.23	0.138	I	O	|	|	|	1.73
27.833	0.00	0.23	0.136	I	O	|	|	|	1.71
27.917	0.00	0.23	0.134	I	O	|	|	|	1.69
28.000	0.00	0.23	0.133	I	O	|	|	|	1.68
28.083	0.00	0.23	0.131	I	O	|	|	|	1.66
28.167	0.00	0.23	0.130	I	O	|	|	|	1.64
28.250	0.00	0.23	0.128	I	O	|	|	|	1.62
28.333	0.00	0.23	0.126	I	O	|	|	|	1.61
28.417	0.00	0.23	0.125	I	O	|	|	|	1.59
28.500	0.00	0.23	0.123	I	O	|	|	|	1.57
28.583	0.00	0.23	0.122	I	O	|	|	|	1.56
28.667	0.00	0.23	0.120	I	O	|	|	|	1.54
28.750	0.00	0.23	0.119	I	O	|	|	|	1.52
28.833	0.00	0.23	0.117	I	O	|	|	|	1.50
28.917	0.00	0.23	0.115	I	O	|	|	|	1.49

29.000	0.00	0.23	0.114	I	O	|	|	|	1.47
29.083	0.00	0.23	0.112	I	O	|	|	|	1.45
29.167	0.00	0.23	0.111	I	O	|	|	|	1.44
29.250	0.00	0.23	0.109	I	O	|	|	|	1.42
29.333	0.00	0.23	0.107	I	O	|	|	|	1.40
29.417	0.00	0.23	0.106	I	O	|	|	|	1.39
29.500	0.00	0.23	0.104	I	O	|	|	|	1.37
29.583	0.00	0.23	0.103	I	O	|	|	|	1.35
29.667	0.00	0.23	0.101	I	O	|	|	|	1.33
29.750	0.00	0.23	0.100	I	O	|	|	|	1.32
29.833	0.00	0.23	0.098	I	O	|	|	|	1.30
29.917	0.00	0.23	0.096	I	O	|	|	|	1.28
30.000	0.00	0.23	0.095	I	O	|	|	|	1.27
30.083	0.00	0.23	0.093	I	O	|	|	|	1.25
30.167	0.00	0.23	0.092	I	O	|	|	|	1.23
30.250	0.00	0.23	0.090	I	O	|	|	|	1.22
30.333	0.00	0.23	0.088	I	O	|	|	|	1.20
30.417	0.00	0.23	0.087	I	O	|	|	|	1.18
30.500	0.00	0.23	0.085	I	O	|	|	|	1.16
30.583	0.00	0.23	0.084	I	O	|	|	|	1.15
30.667	0.00	0.23	0.082	I	O	|	|	|	1.13
30.750	0.00	0.23	0.081	I	O	|	|	|	1.11
30.833	0.00	0.23	0.079	I	O	|	|	|	1.10
30.917	0.00	0.23	0.077	I	O	|	|	|	1.08
31.000	0.00	0.23	0.076	I	O	|	|	|	1.06
31.083	0.00	0.23	0.074	I	O	|	|	|	1.04
31.167	0.00	0.23	0.073	I	O	|	|	|	1.03
31.250	0.00	0.23	0.071	I	O	|	|	|	1.01
31.333	0.00	0.23	0.069	I	O	|	|	|	0.99
31.417	0.00	0.22	0.068	I	O	|	|	|	0.97
31.500	0.00	0.22	0.066	I	O	|	|	|	0.95
31.583	0.00	0.21	0.065	I	O	|	|	|	0.93
31.667	0.00	0.21	0.063	I	O	|	|	|	0.91
31.750	0.00	0.20	0.062	I	O	|	|	|	0.89
31.833	0.00	0.20	0.061	I	O	|	|	|	0.87
31.917	0.00	0.19	0.059	I	O	|	|	|	0.85
32.000	0.00	0.19	0.058	I	O	|	|	|	0.83
32.083	0.00	0.19	0.057	I	O	|	|	|	0.81
32.167	0.00	0.18	0.055	I	O	|	|	|	0.79
32.250	0.00	0.18	0.054	I	O	|	|	|	0.77
32.333	0.00	0.17	0.053	I	O	|	|	|	0.76
32.417	0.00	0.17	0.052	I	O	|	|	|	0.74
32.500	0.00	0.17	0.051	I	O	|	|	|	0.72
32.583	0.00	0.16	0.049	I	O	|	|	|	0.71
32.667	0.00	0.16	0.048	I	O	|	|	|	0.69
32.750	0.00	0.16	0.047	I	O	|	|	|	0.68
32.833	0.00	0.15	0.046	I	O	|	|	|	0.66
32.917	0.00	0.15	0.045	I	O	|	|	|	0.65
33.000	0.00	0.15	0.044	I	O	|	|	|	0.63
33.083	0.00	0.14	0.043	I	O	|	|	|	0.62
33.167	0.00	0.14	0.042	I	O	|	|	|	0.60
33.250	0.00	0.14	0.041	I	O	|	|	|	0.59
33.333	0.00	0.13	0.040	I	O	|	|	|	0.58
33.417	0.00	0.13	0.039	I	O	|	|	|	0.56
33.500	0.00	0.13	0.039	I	O	|	|	|	0.55
33.583	0.00	0.12	0.038	I	O	|	|	|	0.54
33.667	0.00	0.12	0.037	I	O	|	|	|	0.53
33.750	0.00	0.12	0.036	I	O	|	|	|	0.51
33.833	0.00	0.12	0.035	I	O	|	|	|	0.50
33.917	0.00	0.11	0.034	I	O	|	|	|	0.49

34.000	0.00	0.11	0.034	I O	|	|	|	0.48
34.083	0.00	0.11	0.033	I O	|	|	|	0.47
34.167	0.00	0.11	0.032	I O	|	|	|	0.46
34.250	0.00	0.10	0.031	I O	|	|	|	0.45
34.333	0.00	0.10	0.031	I O	|	|	|	0.44
34.417	0.00	0.10	0.030	I O	|	|	|	0.43
34.500	0.00	0.10	0.029	I O	|	|	|	0.42
34.583	0.00	0.09	0.029	I O	|	|	|	0.41
34.667	0.00	0.09	0.028	I O	|	|	|	0.40
34.750	0.00	0.09	0.027	I O	|	|	|	0.39
34.833	0.00	0.09	0.027	I O	|	|	|	0.38
34.917	0.00	0.09	0.026	IO	|	|	|	0.37
35.000	0.00	0.08	0.026	IO	|	|	|	0.37
35.083	0.00	0.08	0.025	IO	|	|	|	0.36
35.167	0.00	0.08	0.025	IO	|	|	|	0.35
35.250	0.00	0.08	0.024	IO	|	|	|	0.34
35.333	0.00	0.08	0.023	IO	|	|	|	0.33
35.417	0.00	0.08	0.023	IO	|	|	|	0.33
35.500	0.00	0.07	0.022	IO	|	|	|	0.32
35.583	0.00	0.07	0.022	IO	|	|	|	0.31
35.667	0.00	0.07	0.021	IO	|	|	|	0.31
35.750	0.00	0.07	0.021	IO	|	|	|	0.30
35.833	0.00	0.07	0.020	IO	|	|	|	0.29
35.917	0.00	0.07	0.020	IO	|	|	|	0.29
36.000	0.00	0.06	0.020	IO	|	|	|	0.28
36.083	0.00	0.06	0.019	IO	|	|	|	0.27
36.167	0.00	0.06	0.019	IO	|	|	|	0.27
36.250	0.00	0.06	0.018	IO	|	|	|	0.26
36.333	0.00	0.06	0.018	IO	|	|	|	0.26
36.417	0.00	0.06	0.017	IO	|	|	|	0.25
36.500	0.00	0.06	0.017	IO	|	|	|	0.24
36.583	0.00	0.05	0.017	IO	|	|	|	0.24
36.667	0.00	0.05	0.016	IO	|	|	|	0.23
36.750	0.00	0.05	0.016	IO	|	|	|	0.23
36.833	0.00	0.05	0.016	IO	|	|	|	0.22
36.917	0.00	0.05	0.015	IO	|	|	|	0.22
37.000	0.00	0.05	0.015	IO	|	|	|	0.21
37.083	0.00	0.05	0.015	IO	|	|	|	0.21
37.167	0.00	0.05	0.014	IO	|	|	|	0.20
37.250	0.00	0.05	0.014	IO	|	|	|	0.20
37.333	0.00	0.04	0.014	IO	|	|	|	0.19
37.417	0.00	0.04	0.013	O	|	|	|	0.19
37.500	0.00	0.04	0.013	O	|	|	|	0.19
37.583	0.00	0.04	0.013	O	|	|	|	0.18
37.667	0.00	0.04	0.012	O	|	|	|	0.18
37.750	0.00	0.04	0.012	O	|	|	|	0.17
37.833	0.00	0.04	0.012	O	|	|	|	0.17
37.917	0.00	0.04	0.012	O	|	|	|	0.17
38.000	0.00	0.04	0.011	O	|	|	|	0.16
38.083	0.00	0.04	0.011	O	|	|	|	0.16
38.167	0.00	0.04	0.011	O	|	|	|	0.16
38.250	0.00	0.03	0.011	O	|	|	|	0.15
38.333	0.00	0.03	0.010	O	|	|	|	0.15
38.417	0.00	0.03	0.010	O	|	|	|	0.14
38.500	0.00	0.03	0.010	O	|	|	|	0.14
38.583	0.00	0.03	0.010	O	|	|	|	0.14
38.667	0.00	0.03	0.009	O	|	|	|	0.14
38.750	0.00	0.03	0.009	O	|	|	|	0.13
38.833	0.00	0.03	0.009	O	|	|	|	0.13
38.917	0.00	0.03	0.009	O	|	|	|	0.13

39.000	0.00	0.03	0.009	O	|	|	|	0.12
39.083	0.00	0.03	0.008	O	|	|	|	0.12
39.167	0.00	0.03	0.008	O	|	|	|	0.12
39.250	0.00	0.03	0.008	O	|	|	|	0.12
39.333	0.00	0.03	0.008	O	|	|	|	0.11
39.417	0.00	0.03	0.008	O	|	|	|	0.11
39.500	0.00	0.02	0.008	O	|	|	|	0.11
39.583	0.00	0.02	0.007	O	|	|	|	0.11
39.667	0.00	0.02	0.007	O	|	|	|	0.10
39.750	0.00	0.02	0.007	O	|	|	|	0.10
39.833	0.00	0.02	0.007	O	|	|	|	0.10
39.917	0.00	0.02	0.007	O	|	|	|	0.10
40.000	0.00	0.02	0.007	O	|	|	|	0.09
40.083	0.00	0.02	0.006	O	|	|	|	0.09
40.167	0.00	0.02	0.006	O	|	|	|	0.09
40.250	0.00	0.02	0.006	O	|	|	|	0.09
40.333	0.00	0.02	0.006	O	|	|	|	0.09
40.417	0.00	0.02	0.006	O	|	|	|	0.08
40.500	0.00	0.02	0.006	O	|	|	|	0.08
40.583	0.00	0.02	0.006	O	|	|	|	0.08
40.667	0.00	0.02	0.006	O	|	|	|	0.08
40.750	0.00	0.02	0.005	O	|	|	|	0.08
40.833	0.00	0.02	0.005	O	|	|	|	0.08
40.917	0.00	0.02	0.005	O	|	|	|	0.07
41.000	0.00	0.02	0.005	O	|	|	|	0.07
41.083	0.00	0.02	0.005	O	|	|	|	0.07
41.167	0.00	0.02	0.005	O	|	|	|	0.07
41.250	0.00	0.02	0.005	O	|	|	|	0.07
41.333	0.00	0.02	0.005	O	|	|	|	0.07
41.417	0.00	0.01	0.004	O	|	|	|	0.06
41.500	0.00	0.01	0.004	O	|	|	|	0.06
41.583	0.00	0.01	0.004	O	|	|	|	0.06
41.667	0.00	0.01	0.004	O	|	|	|	0.06
41.750	0.00	0.01	0.004	O	|	|	|	0.06
41.833	0.00	0.01	0.004	O	|	|	|	0.06
41.917	0.00	0.01	0.004	O	|	|	|	0.06
42.000	0.00	0.01	0.004	O	|	|	|	0.05
42.083	0.00	0.01	0.004	O	|	|	|	0.05
42.167	0.00	0.01	0.004	O	|	|	|	0.05
42.250	0.00	0.01	0.004	O	|	|	|	0.05
42.333	0.00	0.01	0.004	O	|	|	|	0.05
42.417	0.00	0.01	0.003	O	|	|	|	0.05
42.500	0.00	0.01	0.003	O	|	|	|	0.05
42.583	0.00	0.01	0.003	O	|	|	|	0.05
42.667	0.00	0.01	0.003	O	|	|	|	0.05
42.750	0.00	0.01	0.003	O	|	|	|	0.04
42.833	0.00	0.01	0.003	O	|	|	|	0.04
42.917	0.00	0.01	0.003	O	|	|	|	0.04
43.000	0.00	0.01	0.003	O	|	|	|	0.04
43.083	0.00	0.01	0.003	O	|	|	|	0.04
43.167	0.00	0.01	0.003	O	|	|	|	0.04
43.250	0.00	0.01	0.003	O	|	|	|	0.04
43.333	0.00	0.01	0.003	O	|	|	|	0.04
43.417	0.00	0.01	0.003	O	|	|	|	0.04
43.500	0.00	0.01	0.003	O	|	|	|	0.04
43.583	0.00	0.01	0.002	O	|	|	|	0.04
43.667	0.00	0.01	0.002	O	|	|	|	0.03
43.750	0.00	0.01	0.002	O	|	|	|	0.03
43.833	0.00	0.01	0.002	O	|	|	|	0.03
43.917	0.00	0.01	0.002	O	|	|	|	0.03

44.000	0.00	0.01	0.002	O	|	|	|	0.03
44.083	0.00	0.01	0.002	O	|	|	|	0.03
44.167	0.00	0.01	0.002	O	|	|	|	0.03
44.250	0.00	0.01	0.002	O	|	|	|	0.03
44.333	0.00	0.01	0.002	O	|	|	|	0.03
44.417	0.00	0.01	0.002	O	|	|	|	0.03
44.500	0.00	0.01	0.002	O	|	|	|	0.03
44.583	0.00	0.01	0.002	O	|	|	|	0.03
44.667	0.00	0.01	0.002	O	|	|	|	0.03
44.750	0.00	0.01	0.002	O	|	|	|	0.03
44.833	0.00	0.01	0.002	O	|	|	|	0.03
44.917	0.00	0.01	0.002	O	|	|	|	0.02
45.000	0.00	0.01	0.002	O	|	|	|	0.02
45.083	0.00	0.01	0.002	O	|	|	|	0.02
45.167	0.00	0.01	0.002	O	|	|	|	0.02
45.250	0.00	0.01	0.002	O	|	|	|	0.02
45.333	0.00	0.01	0.002	O	|	|	|	0.02
45.417	0.00	0.00	0.002	O	|	|	|	0.02
45.500	0.00	0.00	0.001	O	|	|	|	0.02
45.583	0.00	0.00	0.001	O	|	|	|	0.02
45.667	0.00	0.00	0.001	O	|	|	|	0.02
45.750	0.00	0.00	0.001	O	|	|	|	0.02
45.833	0.00	0.00	0.001	O	|	|	|	0.02
45.917	0.00	0.00	0.001	O	|	|	|	0.02
46.000	0.00	0.00	0.001	O	|	|	|	0.02
46.083	0.00	0.00	0.001	O	|	|	|	0.02
46.167	0.00	0.00	0.001	O	|	|	|	0.02
46.250	0.00	0.00	0.001	O	|	|	|	0.02
46.333	0.00	0.00	0.001	O	|	|	|	0.02
46.417	0.00	0.00	0.001	O	|	|	|	0.02
46.500	0.00	0.00	0.001	O	|	|	|	0.02
46.583	0.00	0.00	0.001	O	|	|	|	0.02
46.667	0.00	0.00	0.001	O	|	|	|	0.02
46.750	0.00	0.00	0.001	O	|	|	|	0.02
46.833	0.00	0.00	0.001	O	|	|	|	0.01
46.917	0.00	0.00	0.001	O	|	|	|	0.01
47.000	0.00	0.00	0.001	O	|	|	|	0.01
47.083	0.00	0.00	0.001	O	|	|	|	0.01
47.167	0.00	0.00	0.001	O	|	|	|	0.01
47.250	0.00	0.00	0.001	O	|	|	|	0.01
47.333	0.00	0.00	0.001	O	|	|	|	0.01
47.417	0.00	0.00	0.001	O	|	|	|	0.01
47.500	0.00	0.00	0.001	O	|	|	|	0.01
47.583	0.00	0.00	0.001	O	|	|	|	0.01
47.667	0.00	0.00	0.001	O	|	|	|	0.01
47.750	0.00	0.00	0.001	O	|	|	|	0.01
47.833	0.00	0.00	0.001	O	|	|	|	0.01
47.917	0.00	0.00	0.001	O	|	|	|	0.01
48.000	0.00	0.00	0.001	O	|	|	|	0.01
48.083	0.00	0.00	0.001	O	|	|	|	0.01
48.167	0.00	0.00	0.001	O	|	|	|	0.01
48.250	0.00	0.00	0.001	O	|	|	|	0.01
48.333	0.00	0.00	0.001	O	|	|	|	0.01
48.417	0.00	0.00	0.001	O	|	|	|	0.01
48.500	0.00	0.00	0.001	O	|	|	|	0.01
48.583	0.00	0.00	0.001	O	|	|	|	0.01
48.667	0.00	0.00	0.001	O	|	|	|	0.01
48.750	0.00	0.00	0.001	O	|	|	|	0.01
48.833	0.00	0.00	0.001	O	|	|	|	0.01
48.917	0.00	0.00	0.001	O	|	|	|	0.01

49.000	0.00	0.00	0.001	O	|	|	|	|	0.01
49.083	0.00	0.00	0.001	O	|	|	|	|	0.01
49.167	0.00	0.00	0.001	O	|	|	|	|	0.01
49.250	0.00	0.00	0.001	O	|	|	|	|	0.01
49.333	0.00	0.00	0.001	O	|	|	|	|	0.01
49.417	0.00	0.00	0.001	O	|	|	|	|	0.01
49.500	0.00	0.00	0.001	O	|	|	|	|	0.01
49.583	0.00	0.00	0.000	O	|	|	|	|	0.01
49.667	0.00	0.00	0.000	O	|	|	|	|	0.01
49.750	0.00	0.00	0.000	O	|	|	|	|	0.01
49.833	0.00	0.00	0.000	O	|	|	|	|	0.01
49.917	0.00	0.00	0.000	O	|	|	|	|	0.01
50.000	0.00	0.00	0.000	O	|	|	|	|	0.01
50.083	0.00	0.00	0.000	O	|	|	|	|	0.01
50.167	0.00	0.00	0.000	O	|	|	|	|	0.01
50.250	0.00	0.00	0.000	O	|	|	|	|	0.01
50.333	0.00	0.00	0.000	O	|	|	|	|	0.01
50.417	0.00	0.00	0.000	O	|	|	|	|	0.01
50.500	0.00	0.00	0.000	O	|	|	|	|	0.01
50.583	0.00	0.00	0.000	O	|	|	|	|	0.01
50.667	0.00	0.00	0.000	O	|	|	|	|	0.01
50.750	0.00	0.00	0.000	O	|	|	|	|	0.01
50.833	0.00	0.00	0.000	O	|	|	|	|	0.00
50.917	0.00	0.00	0.000	O	|	|	|	|	0.00
51.000	0.00	0.00	0.000	O	|	|	|	|	0.00
51.083	0.00	0.00	0.000	O	|	|	|	|	0.00
51.167	0.00	0.00	0.000	O	|	|	|	|	0.00
51.250	0.00	0.00	0.000	O	|	|	|	|	0.00
51.333	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 616
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.146 (CFS)
Total volume = 0.852 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
10-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 12
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 15.978 (CFS)
Total volume = 0.349 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 12
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 4.0 7.99 11.98 15.98	Depth (Ft.)
0.083	1.53	0.02	0.005	O I | | | |	0.07
0.167	2.22	0.06	0.018	O I | | | |	0.26
0.250	2.22	0.11	0.033	O I | | | |	0.47
0.333	2.44	0.16	0.048	O I | | | |	0.68
0.417	2.83	0.21	0.065	O I | | | |	0.92
0.500	2.88	0.23	0.083	O I | | | |	1.14
0.583	3.54	0.23	0.103	O I| | | |	1.36
0.667	4.43	0.23	0.129	O I | | |	1.64
0.750	6.90	0.23	0.167	O | I | |	2.03
0.833	15.98	0.23	0.244	O | | | I|	2.76
0.917	3.87	0.92	0.308	|O I| | |	3.36
1.000	1.84	1.14	0.321	| OI | | |	3.47
1.083	0.00	1.11	0.320	I O | | |	3.46
1.167	0.00	0.99	0.312	IO | | |	3.39
1.250	0.00	0.87	0.306	IO | | |	3.34
1.333	0.00	0.77	0.300	IO | | |	3.28
1.417	0.00	0.69	0.295	IO | | |	3.24
1.500	0.00	0.61	0.291	IO | | |	3.20
1.583	0.00	0.54	0.287	IO | | |	3.16
1.667	0.00	0.48	0.283	O | | |	3.13
1.750	0.00	0.42	0.280	O | | |	3.10
1.833	0.00	0.38	0.277	O | | |	3.08
1.917	0.00	0.33	0.275	O | | |	3.05
2.000	0.00	0.30	0.273	O | | |	3.03
2.083	0.00	0.26	0.271	O | | |	3.02
2.167	0.00	0.23	0.269	O | | |	3.00
2.250	0.00	0.23	0.268	O | | |	2.99
2.333	0.00	0.23	0.266	O | | |	2.97
2.417	0.00	0.23	0.264	O | | |	2.96
2.500	0.00	0.23	0.263	O | | |	2.94
2.583	0.00	0.23	0.261	O | | |	2.93
2.667	0.00	0.23	0.260	O | | |	2.91
2.750	0.00	0.23	0.258	O | | |	2.90
2.833	0.00	0.23	0.256	O | | |	2.88
2.917	0.00	0.23	0.255	O | | |	2.87
3.000	0.00	0.23	0.253	O | | |	2.85
3.083	0.00	0.23	0.252	O | | |	2.84
3.167	0.00	0.23	0.250	O | | |	2.82
3.250	0.00	0.23	0.249	O | | |	2.81
3.333	0.00	0.23	0.247	O | | |	2.79
3.417	0.00	0.23	0.245	O | | |	2.78
3.500	0.00	0.23	0.244	O | | |	2.76
3.583	0.00	0.23	0.242	O | | |	2.75
3.667	0.00	0.23	0.241	O | | |	2.73
3.750	0.00	0.23	0.239	O | | |	2.72
3.833	0.00	0.23	0.237	O | | |	2.70
3.917	0.00	0.23	0.236	O | | |	2.69

4.000	0.00	0.23	0.234	O				2.67
4.083	0.00	0.23	0.233	O				2.66
4.167	0.00	0.23	0.231	O				2.64
4.250	0.00	0.23	0.230	O				2.63
4.333	0.00	0.23	0.228	O				2.61
4.417	0.00	0.23	0.226	O				2.60
4.500	0.00	0.23	0.225	O				2.58
4.583	0.00	0.23	0.223	O				2.57
4.667	0.00	0.23	0.222	O				2.55
4.750	0.00	0.23	0.220	O				2.54
4.833	0.00	0.23	0.218	O				2.52
4.917	0.00	0.23	0.217	O				2.51
5.000	0.00	0.23	0.215	O				2.49
5.083	0.00	0.23	0.214	O				2.48
5.167	0.00	0.23	0.212	O				2.46
5.250	0.00	0.23	0.211	O				2.45
5.333	0.00	0.23	0.209	O				2.43
5.417	0.00	0.23	0.207	O				2.42
5.500	0.00	0.23	0.206	O				2.40
5.583	0.00	0.23	0.204	O				2.39
5.667	0.00	0.23	0.203	O				2.37
5.750	0.00	0.23	0.201	O				2.36
5.833	0.00	0.23	0.199	O				2.34
5.917	0.00	0.23	0.198	O				2.33
6.000	0.00	0.23	0.196	O				2.31
6.083	0.00	0.23	0.195	O				2.30
6.167	0.00	0.23	0.193	O				2.28
6.250	0.00	0.23	0.192	O				2.27
6.333	0.00	0.23	0.190	O				2.25
6.417	0.00	0.23	0.188	O				2.24
6.500	0.00	0.23	0.187	O				2.22
6.583	0.00	0.23	0.185	O				2.21
6.667	0.00	0.23	0.184	O				2.19
6.750	0.00	0.23	0.182	O				2.18
6.833	0.00	0.23	0.180	O				2.16
6.917	0.00	0.23	0.179	O				2.15
7.000	0.00	0.23	0.177	O				2.13
7.083	0.00	0.23	0.176	O				2.12
7.167	0.00	0.23	0.174	O				2.10
7.250	0.00	0.23	0.173	O				2.09
7.333	0.00	0.23	0.171	O				2.07
7.417	0.00	0.23	0.169	O				2.06
7.500	0.00	0.23	0.168	O				2.04
7.583	0.00	0.23	0.166	O				2.03
7.667	0.00	0.23	0.165	O				2.02
7.750	0.00	0.23	0.163	O				2.00
7.833	0.00	0.23	0.161	O				1.98
7.917	0.00	0.23	0.160	O				1.97
8.000	0.00	0.23	0.158	O				1.95
8.083	0.00	0.23	0.157	O				1.93
8.167	0.00	0.23	0.155	O				1.91
8.250	0.00	0.23	0.154	O				1.90
8.333	0.00	0.23	0.152	O				1.88
8.417	0.00	0.23	0.150	O				1.86
8.500	0.00	0.23	0.149	O				1.85
8.583	0.00	0.23	0.147	O				1.83
8.667	0.00	0.23	0.146	O				1.81
8.750	0.00	0.23	0.144	O				1.80
8.833	0.00	0.23	0.142	O				1.78
8.917	0.00	0.23	0.141	O				1.76

9.000	0.00	0.23	0.139	O	|	|	|	|	1.74
9.083	0.00	0.23	0.138	O	|	|	|	|	1.73
9.167	0.00	0.23	0.136	O	|	|	|	|	1.71
9.250	0.00	0.23	0.134	O	|	|	|	|	1.69
9.333	0.00	0.23	0.133	O	|	|	|	|	1.68
9.417	0.00	0.23	0.131	O	|	|	|	|	1.66
9.500	0.00	0.23	0.130	O	|	|	|	|	1.64
9.583	0.00	0.23	0.128	O	|	|	|	|	1.63
9.667	0.00	0.23	0.127	O	|	|	|	|	1.61
9.750	0.00	0.23	0.125	O	|	|	|	|	1.59
9.833	0.00	0.23	0.123	O	|	|	|	|	1.57
9.917	0.00	0.23	0.122	O	|	|	|	|	1.56
10.000	0.00	0.23	0.120	O	|	|	|	|	1.54
10.083	0.00	0.23	0.119	O	|	|	|	|	1.52
10.167	0.00	0.23	0.117	O	|	|	|	|	1.51
10.250	0.00	0.23	0.115	O	|	|	|	|	1.49
10.333	0.00	0.23	0.114	O	|	|	|	|	1.47
10.417	0.00	0.23	0.112	O	|	|	|	|	1.46
10.500	0.00	0.23	0.111	O	|	|	|	|	1.44
10.583	0.00	0.23	0.109	O	|	|	|	|	1.42
10.667	0.00	0.23	0.108	O	|	|	|	|	1.40
10.750	0.00	0.23	0.106	O	|	|	|	|	1.39
10.833	0.00	0.23	0.104	O	|	|	|	|	1.37
10.917	0.00	0.23	0.103	O	|	|	|	|	1.35
11.000	0.00	0.23	0.101	O	|	|	|	|	1.34
11.083	0.00	0.23	0.100	O	|	|	|	|	1.32
11.167	0.00	0.23	0.098	O	|	|	|	|	1.30
11.250	0.00	0.23	0.096	O	|	|	|	|	1.28
11.333	0.00	0.23	0.095	O	|	|	|	|	1.27
11.417	0.00	0.23	0.093	O	|	|	|	|	1.25
11.500	0.00	0.23	0.092	O	|	|	|	|	1.23
11.583	0.00	0.23	0.090	O	|	|	|	|	1.22
11.667	0.00	0.23	0.089	O	|	|	|	|	1.20
11.750	0.00	0.23	0.087	O	|	|	|	|	1.18
11.833	0.00	0.23	0.085	O	|	|	|	|	1.17
11.917	0.00	0.23	0.084	O	|	|	|	|	1.15
12.000	0.00	0.23	0.082	O	|	|	|	|	1.13
12.083	0.00	0.23	0.081	O	|	|	|	|	1.11
12.167	0.00	0.23	0.079	O	|	|	|	|	1.10
12.250	0.00	0.23	0.077	O	|	|	|	|	1.08
12.333	0.00	0.23	0.076	O	|	|	|	|	1.06
12.417	0.00	0.23	0.074	O	|	|	|	|	1.05
12.500	0.00	0.23	0.073	O	|	|	|	|	1.03
12.583	0.00	0.23	0.071	O	|	|	|	|	1.01
12.667	0.00	0.23	0.070	O	|	|	|	|	0.99
12.750	0.00	0.22	0.068	O	|	|	|	|	0.97
12.833	0.00	0.22	0.066	O	|	|	|	|	0.95
12.917	0.00	0.21	0.065	O	|	|	|	|	0.93
13.000	0.00	0.21	0.064	O	|	|	|	|	0.91
13.083	0.00	0.20	0.062	O	|	|	|	|	0.89
13.167	0.00	0.20	0.061	O	|	|	|	|	0.87
13.250	0.00	0.20	0.059	O	|	|	|	|	0.85
13.333	0.00	0.19	0.058	O	|	|	|	|	0.83
13.417	0.00	0.19	0.057	O	|	|	|	|	0.81
13.500	0.00	0.18	0.055	O	|	|	|	|	0.79
13.583	0.00	0.18	0.054	O	|	|	|	|	0.77
13.667	0.00	0.17	0.053	O	|	|	|	|	0.76
13.750	0.00	0.17	0.052	O	|	|	|	|	0.74
13.833	0.00	0.17	0.051	O	|	|	|	|	0.72
13.917	0.00	0.16	0.050	O	|	|	|	|	0.71

14.000	0.00	0.16	0.048	O	|	|	|	0.69
14.083	0.00	0.16	0.047	O	|	|	|	0.68
14.167	0.00	0.15	0.046	O	|	|	|	0.66
14.250	0.00	0.15	0.045	O	|	|	|	0.65
14.333	0.00	0.15	0.044	O	|	|	|	0.63
14.417	0.00	0.14	0.043	O	|	|	|	0.62
14.500	0.00	0.14	0.042	O	|	|	|	0.60
14.583	0.00	0.14	0.041	O	|	|	|	0.59
14.667	0.00	0.13	0.040	O	|	|	|	0.58
14.750	0.00	0.13	0.040	O	|	|	|	0.56
14.833	0.00	0.13	0.039	O	|	|	|	0.55
14.917	0.00	0.12	0.038	O	|	|	|	0.54
15.000	0.00	0.12	0.037	O	|	|	|	0.53
15.083	0.00	0.12	0.036	O	|	|	|	0.52
15.167	0.00	0.12	0.035	O	|	|	|	0.50
15.250	0.00	0.11	0.034	O	|	|	|	0.49
15.333	0.00	0.11	0.034	O	|	|	|	0.48
15.417	0.00	0.11	0.033	O	|	|	|	0.47
15.500	0.00	0.11	0.032	O	|	|	|	0.46
15.583	0.00	0.10	0.032	O	|	|	|	0.45
15.667	0.00	0.10	0.031	O	|	|	|	0.44
15.750	0.00	0.10	0.030	O	|	|	|	0.43
15.833	0.00	0.10	0.029	O	|	|	|	0.42
15.917	0.00	0.09	0.029	O	|	|	|	0.41
16.000	0.00	0.09	0.028	O	|	|	|	0.40
16.083	0.00	0.09	0.028	O	|	|	|	0.39
16.167	0.00	0.09	0.027	O	|	|	|	0.38
16.250	0.00	0.09	0.026	O	|	|	|	0.38
16.333	0.00	0.08	0.026	O	|	|	|	0.37
16.417	0.00	0.08	0.025	O	|	|	|	0.36
16.500	0.00	0.08	0.025	O	|	|	|	0.35
16.583	0.00	0.08	0.024	O	|	|	|	0.34
16.667	0.00	0.08	0.023	O	|	|	|	0.34
16.750	0.00	0.08	0.023	O	|	|	|	0.33
16.833	0.00	0.07	0.022	O	|	|	|	0.32
16.917	0.00	0.07	0.022	O	|	|	|	0.31
17.000	0.00	0.07	0.021	O	|	|	|	0.31
17.083	0.00	0.07	0.021	O	|	|	|	0.30
17.167	0.00	0.07	0.020	O	|	|	|	0.29
17.250	0.00	0.07	0.020	O	|	|	|	0.29
17.333	0.00	0.06	0.020	O	|	|	|	0.28
17.417	0.00	0.06	0.019	O	|	|	|	0.27
17.500	0.00	0.06	0.019	O	|	|	|	0.27
17.583	0.00	0.06	0.018	O	|	|	|	0.26
17.667	0.00	0.06	0.018	O	|	|	|	0.26
17.750	0.00	0.06	0.017	O	|	|	|	0.25
17.833	0.00	0.06	0.017	O	|	|	|	0.24
17.917	0.00	0.05	0.017	O	|	|	|	0.24
18.000	0.00	0.05	0.016	O	|	|	|	0.23
18.083	0.00	0.05	0.016	O	|	|	|	0.23
18.167	0.00	0.05	0.016	O	|	|	|	0.22
18.250	0.00	0.05	0.015	O	|	|	|	0.22
18.333	0.00	0.05	0.015	O	|	|	|	0.21
18.417	0.00	0.05	0.015	O	|	|	|	0.21
18.500	0.00	0.05	0.014	O	|	|	|	0.20
18.583	0.00	0.05	0.014	O	|	|	|	0.20
18.667	0.00	0.04	0.014	O	|	|	|	0.19
18.750	0.00	0.04	0.013	O	|	|	|	0.19
18.833	0.00	0.04	0.013	O	|	|	|	0.19
18.917	0.00	0.04	0.013	O	|	|	|	0.18

19.000	0.00	0.04	0.012	O	|	|	|	0.18
19.083	0.00	0.04	0.012	O	|	|	|	0.17
19.167	0.00	0.04	0.012	O	|	|	|	0.17
19.250	0.00	0.04	0.012	O	|	|	|	0.17
19.333	0.00	0.04	0.011	O	|	|	|	0.16
19.417	0.00	0.04	0.011	O	|	|	|	0.16
19.500	0.00	0.04	0.011	O	|	|	|	0.16
19.583	0.00	0.03	0.011	O	|	|	|	0.15
19.667	0.00	0.03	0.010	O	|	|	|	0.15
19.750	0.00	0.03	0.010	O	|	|	|	0.15
19.833	0.00	0.03	0.010	O	|	|	|	0.14
19.917	0.00	0.03	0.010	O	|	|	|	0.14
20.000	0.00	0.03	0.009	O	|	|	|	0.14
20.083	0.00	0.03	0.009	O	|	|	|	0.13
20.167	0.00	0.03	0.009	O	|	|	|	0.13
20.250	0.00	0.03	0.009	O	|	|	|	0.13
20.333	0.00	0.03	0.009	O	|	|	|	0.12
20.417	0.00	0.03	0.008	O	|	|	|	0.12
20.500	0.00	0.03	0.008	O	|	|	|	0.12
20.583	0.00	0.03	0.008	O	|	|	|	0.12
20.667	0.00	0.03	0.008	O	|	|	|	0.11
20.750	0.00	0.03	0.008	O	|	|	|	0.11
20.833	0.00	0.02	0.008	O	|	|	|	0.11
20.917	0.00	0.02	0.007	O	|	|	|	0.11
21.000	0.00	0.02	0.007	O	|	|	|	0.10
21.083	0.00	0.02	0.007	O	|	|	|	0.10
21.167	0.00	0.02	0.007	O	|	|	|	0.10
21.250	0.00	0.02	0.007	O	|	|	|	0.10
21.333	0.00	0.02	0.007	O	|	|	|	0.09
21.417	0.00	0.02	0.006	O	|	|	|	0.09
21.500	0.00	0.02	0.006	O	|	|	|	0.09
21.583	0.00	0.02	0.006	O	|	|	|	0.09
21.667	0.00	0.02	0.006	O	|	|	|	0.09
21.750	0.00	0.02	0.006	O	|	|	|	0.08
21.833	0.00	0.02	0.006	O	|	|	|	0.08
21.917	0.00	0.02	0.006	O	|	|	|	0.08
22.000	0.00	0.02	0.006	O	|	|	|	0.08
22.083	0.00	0.02	0.005	O	|	|	|	0.08
22.167	0.00	0.02	0.005	O	|	|	|	0.08
22.250	0.00	0.02	0.005	O	|	|	|	0.07
22.333	0.00	0.02	0.005	O	|	|	|	0.07
22.417	0.00	0.02	0.005	O	|	|	|	0.07
22.500	0.00	0.02	0.005	O	|	|	|	0.07
22.583	0.00	0.02	0.005	O	|	|	|	0.07
22.667	0.00	0.02	0.005	O	|	|	|	0.07
22.750	0.00	0.01	0.004	O	|	|	|	0.06
22.833	0.00	0.01	0.004	O	|	|	|	0.06
22.917	0.00	0.01	0.004	O	|	|	|	0.06
23.000	0.00	0.01	0.004	O	|	|	|	0.06
23.083	0.00	0.01	0.004	O	|	|	|	0.06
23.167	0.00	0.01	0.004	O	|	|	|	0.06
23.250	0.00	0.01	0.004	O	|	|	|	0.06
23.333	0.00	0.01	0.004	O	|	|	|	0.05
23.417	0.00	0.01	0.004	O	|	|	|	0.05
23.500	0.00	0.01	0.004	O	|	|	|	0.05
23.583	0.00	0.01	0.004	O	|	|	|	0.05
23.667	0.00	0.01	0.004	O	|	|	|	0.05
23.750	0.00	0.01	0.003	O	|	|	|	0.05
23.833	0.00	0.01	0.003	O	|	|	|	0.05
23.917	0.00	0.01	0.003	O	|	|	|	0.05

24.000	0.00	0.01	0.003	O	|	|	|	0.05
24.083	0.00	0.01	0.003	O	|	|	|	0.04
24.167	0.00	0.01	0.003	O	|	|	|	0.04
24.250	0.00	0.01	0.003	O	|	|	|	0.04
24.333	0.00	0.01	0.003	O	|	|	|	0.04
24.417	0.00	0.01	0.003	O	|	|	|	0.04
24.500	0.00	0.01	0.003	O	|	|	|	0.04
24.583	0.00	0.01	0.003	O	|	|	|	0.04
24.667	0.00	0.01	0.003	O	|	|	|	0.04
24.750	0.00	0.01	0.003	O	|	|	|	0.04
24.833	0.00	0.01	0.003	O	|	|	|	0.04
24.917	0.00	0.01	0.002	O	|	|	|	0.04
25.000	0.00	0.01	0.002	O	|	|	|	0.03
25.083	0.00	0.01	0.002	O	|	|	|	0.03
25.167	0.00	0.01	0.002	O	|	|	|	0.03
25.250	0.00	0.01	0.002	O	|	|	|	0.03
25.333	0.00	0.01	0.002	O	|	|	|	0.03
25.417	0.00	0.01	0.002	O	|	|	|	0.03
25.500	0.00	0.01	0.002	O	|	|	|	0.03
25.583	0.00	0.01	0.002	O	|	|	|	0.03
25.667	0.00	0.01	0.002	O	|	|	|	0.03
25.750	0.00	0.01	0.002	O	|	|	|	0.03
25.833	0.00	0.01	0.002	O	|	|	|	0.03
25.917	0.00	0.01	0.002	O	|	|	|	0.03
26.000	0.00	0.01	0.002	O	|	|	|	0.03
26.083	0.00	0.01	0.002	O	|	|	|	0.03
26.167	0.00	0.01	0.002	O	|	|	|	0.03
26.250	0.00	0.01	0.002	O	|	|	|	0.02
26.333	0.00	0.01	0.002	O	|	|	|	0.02
26.417	0.00	0.01	0.002	O	|	|	|	0.02
26.500	0.00	0.01	0.002	O	|	|	|	0.02
26.583	0.00	0.01	0.002	O	|	|	|	0.02
26.667	0.00	0.01	0.002	O	|	|	|	0.02
26.750	0.00	0.00	0.002	O	|	|	|	0.02
26.833	0.00	0.00	0.001	O	|	|	|	0.02
26.917	0.00	0.00	0.001	O	|	|	|	0.02
27.000	0.00	0.00	0.001	O	|	|	|	0.02
27.083	0.00	0.00	0.001	O	|	|	|	0.02
27.167	0.00	0.00	0.001	O	|	|	|	0.02
27.250	0.00	0.00	0.001	O	|	|	|	0.02
27.333	0.00	0.00	0.001	O	|	|	|	0.02
27.417	0.00	0.00	0.001	O	|	|	|	0.02
27.500	0.00	0.00	0.001	O	|	|	|	0.02
27.583	0.00	0.00	0.001	O	|	|	|	0.02
27.667	0.00	0.00	0.001	O	|	|	|	0.02
27.750	0.00	0.00	0.001	O	|	|	|	0.02
27.833	0.00	0.00	0.001	O	|	|	|	0.02
27.917	0.00	0.00	0.001	O	|	|	|	0.02
28.000	0.00	0.00	0.001	O	|	|	|	0.02
28.083	0.00	0.00	0.001	O	|	|	|	0.02
28.167	0.00	0.00	0.001	O	|	|	|	0.01
28.250	0.00	0.00	0.001	O	|	|	|	0.01
28.333	0.00	0.00	0.001	O	|	|	|	0.01
28.417	0.00	0.00	0.001	O	|	|	|	0.01
28.500	0.00	0.00	0.001	O	|	|	|	0.01
28.583	0.00	0.00	0.001	O	|	|	|	0.01
28.667	0.00	0.00	0.001	O	|	|	|	0.01
28.750	0.00	0.00	0.001	O	|	|	|	0.01
28.833	0.00	0.00	0.001	O	|	|	|	0.01
28.917	0.00	0.00	0.001	O	|	|	|	0.01

29.000	0.00	0.00	0.001	O	|	|	|	|	0.01
29.083	0.00	0.00	0.001	O	|	|	|	|	0.01
29.167	0.00	0.00	0.001	O	|	|	|	|	0.01
29.250	0.00	0.00	0.001	O	|	|	|	|	0.01
29.333	0.00	0.00	0.001	O	|	|	|	|	0.01
29.417	0.00	0.00	0.001	O	|	|	|	|	0.01
29.500	0.00	0.00	0.001	O	|	|	|	|	0.01
29.583	0.00	0.00	0.001	O	|	|	|	|	0.01
29.667	0.00	0.00	0.001	O	|	|	|	|	0.01
29.750	0.00	0.00	0.001	O	|	|	|	|	0.01
29.833	0.00	0.00	0.001	O	|	|	|	|	0.01
29.917	0.00	0.00	0.001	O	|	|	|	|	0.01
30.000	0.00	0.00	0.001	O	|	|	|	|	0.01
30.083	0.00	0.00	0.001	O	|	|	|	|	0.01
30.167	0.00	0.00	0.001	O	|	|	|	|	0.01
30.250	0.00	0.00	0.001	O	|	|	|	|	0.01
30.333	0.00	0.00	0.001	O	|	|	|	|	0.01
30.417	0.00	0.00	0.001	O	|	|	|	|	0.01
30.500	0.00	0.00	0.001	O	|	|	|	|	0.01
30.583	0.00	0.00	0.001	O	|	|	|	|	0.01
30.667	0.00	0.00	0.001	O	|	|	|	|	0.01
30.750	0.00	0.00	0.001	O	|	|	|	|	0.01
30.833	0.00	0.00	0.001	O	|	|	|	|	0.01
30.917	0.00	0.00	0.000	O	|	|	|	|	0.01
31.000	0.00	0.00	0.000	O	|	|	|	|	0.01
31.083	0.00	0.00	0.000	O	|	|	|	|	0.01
31.167	0.00	0.00	0.000	O	|	|	|	|	0.01
31.250	0.00	0.00	0.000	O	|	|	|	|	0.01
31.333	0.00	0.00	0.000	O	|	|	|	|	0.01
31.417	0.00	0.00	0.000	O	|	|	|	|	0.01
31.500	0.00	0.00	0.000	O	|	|	|	|	0.01
31.583	0.00	0.00	0.000	O	|	|	|	|	0.01
31.667	0.00	0.00	0.000	O	|	|	|	|	0.01
31.750	0.00	0.00	0.000	O	|	|	|	|	0.01
31.833	0.00	0.00	0.000	O	|	|	|	|	0.01
31.917	0.00	0.00	0.000	O	|	|	|	|	0.01
32.000	0.00	0.00	0.000	O	|	|	|	|	0.01
32.083	0.00	0.00	0.000	O	|	|	|	|	0.01
32.167	0.00	0.00	0.000	O	|	|	|	|	0.00
32.250	0.00	0.00	0.000	O	|	|	|	|	0.00
32.333	0.00	0.00	0.000	O	|	|	|	|	0.00
32.417	0.00	0.00	0.000	O	|	|	|	|	0.00
32.500	0.00	0.00	0.000	O	|	|	|	|	0.00
32.583	0.00	0.00	0.000	O	|	|	|	|	0.00
32.667	0.00	0.00	0.000	O	|	|	|	|	0.00
32.750	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 393
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.136 (CFS)
Total volume = 0.349 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
10-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 36
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 6.574 (CFS)
Total volume = 0.508 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 36
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 1.6 3.29 4.93 6.57	Depth (Ft.)
0.083	0.90	0.01	0.003	O I | | | |	0.04
0.167	0.90	0.03	0.009	O I | | | |	0.13
0.250	0.76	0.05	0.015	O I | | | |	0.21
0.333	1.04	0.07	0.020	O I | | | |	0.29
0.417	1.04	0.09	0.027	O I | | | |	0.39
0.500	1.25	0.11	0.034	O I | | | |	0.49
0.583	1.04	0.14	0.041	O I | | | |	0.59
0.667	1.25	0.16	0.048	O I | | | |	0.69
0.750	1.25	0.18	0.056	O I | | | |	0.79
0.833	1.04	0.20	0.062	O I | | | |	0.89
0.917	1.11	0.22	0.068	|O I | | | |	0.97
1.000	1.25	0.23	0.075	|O I | | | |	1.05
1.083	1.53	0.23	0.083	|O I| | | |	1.14
1.167	1.53	0.23	0.091	|O I| | | |	1.23
1.250	1.53	0.23	0.100	|O I| | | |	1.33
1.333	1.39	0.23	0.109	|O I | | | |	1.42
1.417	1.84	0.23	0.118	|O I | | |	1.52
1.500	1.92	0.23	0.130	|O |I | | |	1.64
1.583	1.67	0.23	0.141	|O I | | |	1.76
1.667	1.92	0.23	0.151	|O |I | | |	1.87
1.750	2.43	0.23	0.165	|O | I | | |	2.02
1.833	2.26	0.23	0.179	|O | I | | |	2.15
1.917	2.09	0.23	0.193	|O | I | | |	2.28
2.000	2.18	0.23	0.206	|O | I | | |	2.40
2.083	2.26	0.23	0.219	|O | I | | |	2.53
2.167	3.19	0.23	0.237	|O | I| | |	2.70
2.250	3.87	0.23	0.259	|O | | I | | |	2.91
2.333	2.60	0.41	0.279	| O | I | | |	3.10
2.417	5.39	0.82	0.303	| O | | | I |	3.31
2.500	5.81	1.36	0.334	| O | | | I |	3.59
2.583	6.57	1.91	0.365	| |O | | | I	3.87
2.667	4.63	2.24	0.389	| | O | | I | |	4.10
2.750	1.39	2.28	0.395	| I | O | | |	4.15
2.833	1.25	2.23	0.388	| I | O | | |	4.09
2.917	1.25	2.17	0.382	| I | O | | |	4.02
3.000	0.42	2.04	0.373	| I |O | | |	3.94
3.083	0.00	1.83	0.361	I O | | |	3.84
3.167	0.00	1.63	0.349	I O| | | |	3.73
3.250	0.00	1.44	0.338	I O| | | |	3.63
3.333	0.00	1.28	0.329	I O | | | |	3.55
3.417	0.00	1.13	0.321	I O | | | |	3.47
3.500	0.00	1.00	0.313	I O | | | |	3.40
3.583	0.00	0.89	0.307	I O | | | |	3.34
3.667	0.00	0.79	0.301	I O | | | |	3.29
3.750	0.00	0.70	0.296	I O | | | |	3.24
3.833	0.00	0.62	0.291	I O | | | |	3.20
3.917	0.00	0.55	0.287	I O | | | |	3.17

4.000	0.00	0.49	0.284	I O	|	|	|	3.13
4.083	0.00	0.43	0.281	I O	|	|	|	3.11
4.167	0.00	0.38	0.278	IO	|	|	|	3.08
4.250	0.00	0.34	0.275	IO	|	|	|	3.06
4.333	0.00	0.30	0.273	IO	|	|	|	3.04
4.417	0.00	0.27	0.271	IO	|	|	|	3.02
4.500	0.00	0.24	0.269	IO	|	|	|	3.00
4.583	0.00	0.23	0.268	IO	|	|	|	2.99
4.667	0.00	0.23	0.266	IO	|	|	|	2.97
4.750	0.00	0.23	0.265	IO	|	|	|	2.96
4.833	0.00	0.23	0.263	IO	|	|	|	2.94
4.917	0.00	0.23	0.261	IO	|	|	|	2.93
5.000	0.00	0.23	0.260	IO	|	|	|	2.91
5.083	0.00	0.23	0.258	IO	|	|	|	2.90
5.167	0.00	0.23	0.257	IO	|	|	|	2.88
5.250	0.00	0.23	0.255	IO	|	|	|	2.87
5.333	0.00	0.23	0.254	IO	|	|	|	2.85
5.417	0.00	0.23	0.252	IO	|	|	|	2.84
5.500	0.00	0.23	0.250	IO	|	|	|	2.82
5.583	0.00	0.23	0.249	IO	|	|	|	2.81
5.667	0.00	0.23	0.247	IO	|	|	|	2.79
5.750	0.00	0.23	0.246	IO	|	|	|	2.78
5.833	0.00	0.23	0.244	IO	|	|	|	2.76
5.917	0.00	0.23	0.242	IO	|	|	|	2.75
6.000	0.00	0.23	0.241	IO	|	|	|	2.73
6.083	0.00	0.23	0.239	IO	|	|	|	2.72
6.167	0.00	0.23	0.238	IO	|	|	|	2.70
6.250	0.00	0.23	0.236	IO	|	|	|	2.69
6.333	0.00	0.23	0.235	IO	|	|	|	2.67
6.417	0.00	0.23	0.233	IO	|	|	|	2.66
6.500	0.00	0.23	0.231	IO	|	|	|	2.64
6.583	0.00	0.23	0.230	IO	|	|	|	2.63
6.667	0.00	0.23	0.228	IO	|	|	|	2.62
6.750	0.00	0.23	0.227	IO	|	|	|	2.60
6.833	0.00	0.23	0.225	IO	|	|	|	2.59
6.917	0.00	0.23	0.223	IO	|	|	|	2.57
7.000	0.00	0.23	0.222	IO	|	|	|	2.56
7.083	0.00	0.23	0.220	IO	|	|	|	2.54
7.167	0.00	0.23	0.219	IO	|	|	|	2.53
7.250	0.00	0.23	0.217	IO	|	|	|	2.51
7.333	0.00	0.23	0.216	IO	|	|	|	2.50
7.417	0.00	0.23	0.214	IO	|	|	|	2.48
7.500	0.00	0.23	0.212	IO	|	|	|	2.47
7.583	0.00	0.23	0.211	IO	|	|	|	2.45
7.667	0.00	0.23	0.209	IO	|	|	|	2.44
7.750	0.00	0.23	0.208	IO	|	|	|	2.42
7.833	0.00	0.23	0.206	IO	|	|	|	2.41
7.917	0.00	0.23	0.204	IO	|	|	|	2.39
8.000	0.00	0.23	0.203	IO	|	|	|	2.38
8.083	0.00	0.23	0.201	IO	|	|	|	2.36
8.167	0.00	0.23	0.200	IO	|	|	|	2.35
8.250	0.00	0.23	0.198	IO	|	|	|	2.33
8.333	0.00	0.23	0.197	IO	|	|	|	2.32
8.417	0.00	0.23	0.195	IO	|	|	|	2.30
8.500	0.00	0.23	0.193	IO	|	|	|	2.29
8.583	0.00	0.23	0.192	IO	|	|	|	2.27
8.667	0.00	0.23	0.190	IO	|	|	|	2.26
8.750	0.00	0.23	0.189	IO	|	|	|	2.24
8.833	0.00	0.23	0.187	IO	|	|	|	2.23
8.917	0.00	0.23	0.185	IO	|	|	|	2.21

9.000	0.00	0.23	0.184	IO				2.20
9.083	0.00	0.23	0.182	IO				2.18
9.167	0.00	0.23	0.181	IO				2.17
9.250	0.00	0.23	0.179	IO				2.15
9.333	0.00	0.23	0.178	IO				2.14
9.417	0.00	0.23	0.176	IO				2.12
9.500	0.00	0.23	0.174	IO				2.11
9.583	0.00	0.23	0.173	IO				2.09
9.667	0.00	0.23	0.171	IO				2.08
9.750	0.00	0.23	0.170	IO				2.06
9.833	0.00	0.23	0.168	IO				2.05
9.917	0.00	0.23	0.166	IO				2.03
10.000	0.00	0.23	0.165	IO				2.02
10.083	0.00	0.23	0.163	IO				2.00
10.167	0.00	0.23	0.162	IO				1.99
10.250	0.00	0.23	0.160	IO				1.97
10.333	0.00	0.23	0.158	IO				1.95
10.417	0.00	0.23	0.157	IO				1.93
10.500	0.00	0.23	0.155	IO				1.92
10.583	0.00	0.23	0.154	IO				1.90
10.667	0.00	0.23	0.152	IO				1.88
10.750	0.00	0.23	0.151	IO				1.87
10.833	0.00	0.23	0.149	IO				1.85
10.917	0.00	0.23	0.147	IO				1.83
11.000	0.00	0.23	0.146	IO				1.82
11.083	0.00	0.23	0.144	IO				1.80
11.167	0.00	0.23	0.143	IO				1.78
11.250	0.00	0.23	0.141	IO				1.76
11.333	0.00	0.23	0.139	IO				1.75
11.417	0.00	0.23	0.138	IO				1.73
11.500	0.00	0.23	0.136	IO				1.71
11.583	0.00	0.23	0.135	IO				1.70
11.667	0.00	0.23	0.133	IO				1.68
11.750	0.00	0.23	0.132	IO				1.66
11.833	0.00	0.23	0.130	IO				1.65
11.917	0.00	0.23	0.128	IO				1.63
12.000	0.00	0.23	0.127	IO				1.61
12.083	0.00	0.23	0.125	IO				1.59
12.167	0.00	0.23	0.124	IO				1.58
12.250	0.00	0.23	0.122	IO				1.56
12.333	0.00	0.23	0.120	IO				1.54
12.417	0.00	0.23	0.119	IO				1.53
12.500	0.00	0.23	0.117	IO				1.51
12.583	0.00	0.23	0.116	IO				1.49
12.667	0.00	0.23	0.114	IO				1.47
12.750	0.00	0.23	0.113	IO				1.46
12.833	0.00	0.23	0.111	IO				1.44
12.917	0.00	0.23	0.109	IO				1.42
13.000	0.00	0.23	0.108	IO				1.41
13.083	0.00	0.23	0.106	IO				1.39
13.167	0.00	0.23	0.105	IO				1.37
13.250	0.00	0.23	0.103	IO				1.36
13.333	0.00	0.23	0.101	IO				1.34
13.417	0.00	0.23	0.100	IO				1.32
13.500	0.00	0.23	0.098	IO				1.30
13.583	0.00	0.23	0.097	IO				1.29
13.667	0.00	0.23	0.095	IO				1.27
13.750	0.00	0.23	0.094	IO				1.25
13.833	0.00	0.23	0.092	IO				1.24
13.917	0.00	0.23	0.090	IO				1.22

14.000	0.00	0.23	0.089	IO				1.20
14.083	0.00	0.23	0.087	IO				1.19
14.167	0.00	0.23	0.086	IO				1.17
14.250	0.00	0.23	0.084	IO				1.15
14.333	0.00	0.23	0.082	IO				1.13
14.417	0.00	0.23	0.081	IO				1.12
14.500	0.00	0.23	0.079	IO				1.10
14.583	0.00	0.23	0.078	IO				1.08
14.667	0.00	0.23	0.076	IO				1.07
14.750	0.00	0.23	0.075	IO				1.05
14.833	0.00	0.23	0.073	IO				1.03
14.917	0.00	0.23	0.071	IO				1.01
15.000	0.00	0.23	0.070	IO				1.00
15.083	0.00	0.22	0.068	IO				0.97
15.167	0.00	0.22	0.067	IO				0.95
15.250	0.00	0.21	0.065	IO				0.93
15.333	0.00	0.21	0.064	IO				0.91
15.417	0.00	0.20	0.062	O				0.89
15.500	0.00	0.20	0.061	O				0.87
15.583	0.00	0.20	0.060	O				0.85
15.667	0.00	0.19	0.058	O				0.83
15.750	0.00	0.19	0.057	O				0.81
15.833	0.00	0.18	0.056	O				0.80
15.917	0.00	0.18	0.054	O				0.78
16.000	0.00	0.17	0.053	O				0.76
16.083	0.00	0.17	0.052	O				0.74
16.167	0.00	0.17	0.051	O				0.73
16.250	0.00	0.16	0.050	O				0.71
16.333	0.00	0.16	0.049	O				0.69
16.417	0.00	0.16	0.048	O				0.68
16.500	0.00	0.15	0.046	O				0.66
16.583	0.00	0.15	0.045	O				0.65
16.667	0.00	0.15	0.044	O				0.63
16.750	0.00	0.14	0.043	O				0.62
16.833	0.00	0.14	0.042	O				0.61
16.917	0.00	0.14	0.041	O				0.59
17.000	0.00	0.13	0.041	O				0.58
17.083	0.00	0.13	0.040	O				0.57
17.167	0.00	0.13	0.039	O				0.55
17.250	0.00	0.12	0.038	O				0.54
17.333	0.00	0.12	0.037	O				0.53
17.417	0.00	0.12	0.036	O				0.52
17.500	0.00	0.12	0.035	O				0.51
17.583	0.00	0.11	0.035	O				0.49
17.667	0.00	0.11	0.034	O				0.48
17.750	0.00	0.11	0.033	O				0.47
17.833	0.00	0.11	0.032	O				0.46
17.917	0.00	0.10	0.032	O				0.45
18.000	0.00	0.10	0.031	O				0.44
18.083	0.00	0.10	0.030	O				0.43
18.167	0.00	0.10	0.030	O				0.42
18.250	0.00	0.09	0.029	O				0.41
18.333	0.00	0.09	0.028	O				0.40
18.417	0.00	0.09	0.028	O				0.39
18.500	0.00	0.09	0.027	O				0.39
18.583	0.00	0.09	0.026	O				0.38
18.667	0.00	0.08	0.026	O				0.37
18.750	0.00	0.08	0.025	O				0.36
18.833	0.00	0.08	0.025	O				0.35
18.917	0.00	0.08	0.024	O				0.34

19.000	0.00	0.08	0.024	O	|	|	|	0.34
19.083	0.00	0.08	0.023	O	|	|	|	0.33
19.167	0.00	0.07	0.023	O	|	|	|	0.32
19.250	0.00	0.07	0.022	O	|	|	|	0.31
19.333	0.00	0.07	0.022	O	|	|	|	0.31
19.417	0.00	0.07	0.021	O	|	|	|	0.30
19.500	0.00	0.07	0.021	O	|	|	|	0.29
19.583	0.00	0.07	0.020	O	|	|	|	0.29
19.667	0.00	0.06	0.020	O	|	|	|	0.28
19.750	0.00	0.06	0.019	O	|	|	|	0.27
19.833	0.00	0.06	0.019	O	|	|	|	0.27
19.917	0.00	0.06	0.018	O	|	|	|	0.26
20.000	0.00	0.06	0.018	O	|	|	|	0.26
20.083	0.00	0.06	0.018	O	|	|	|	0.25
20.167	0.00	0.06	0.017	O	|	|	|	0.25
20.250	0.00	0.06	0.017	O	|	|	|	0.24
20.333	0.00	0.05	0.016	O	|	|	|	0.23
20.417	0.00	0.05	0.016	O	|	|	|	0.23
20.500	0.00	0.05	0.016	O	|	|	|	0.22
20.583	0.00	0.05	0.015	O	|	|	|	0.22
20.667	0.00	0.05	0.015	O	|	|	|	0.21
20.750	0.00	0.05	0.015	O	|	|	|	0.21
20.833	0.00	0.05	0.014	O	|	|	|	0.20
20.917	0.00	0.05	0.014	O	|	|	|	0.20
21.000	0.00	0.04	0.014	O	|	|	|	0.20
21.083	0.00	0.04	0.013	O	|	|	|	0.19
21.167	0.00	0.04	0.013	O	|	|	|	0.19
21.250	0.00	0.04	0.013	O	|	|	|	0.18
21.333	0.00	0.04	0.012	O	|	|	|	0.18
21.417	0.00	0.04	0.012	O	|	|	|	0.17
21.500	0.00	0.04	0.012	O	|	|	|	0.17
21.583	0.00	0.04	0.012	O	|	|	|	0.17
21.667	0.00	0.04	0.011	O	|	|	|	0.16
21.750	0.00	0.04	0.011	O	|	|	|	0.16
21.833	0.00	0.04	0.011	O	|	|	|	0.16
21.917	0.00	0.04	0.011	O	|	|	|	0.15
22.000	0.00	0.03	0.010	O	|	|	|	0.15
22.083	0.00	0.03	0.010	O	|	|	|	0.15
22.167	0.00	0.03	0.010	O	|	|	|	0.14
22.250	0.00	0.03	0.010	O	|	|	|	0.14
22.333	0.00	0.03	0.010	O	|	|	|	0.14
22.417	0.00	0.03	0.009	O	|	|	|	0.13
22.500	0.00	0.03	0.009	O	|	|	|	0.13
22.583	0.00	0.03	0.009	O	|	|	|	0.13
22.667	0.00	0.03	0.009	O	|	|	|	0.12
22.750	0.00	0.03	0.009	O	|	|	|	0.12
22.833	0.00	0.03	0.008	O	|	|	|	0.12
22.917	0.00	0.03	0.008	O	|	|	|	0.12
23.000	0.00	0.03	0.008	O	|	|	|	0.11
23.083	0.00	0.03	0.008	O	|	|	|	0.11
23.167	0.00	0.02	0.008	O	|	|	|	0.11
23.250	0.00	0.02	0.007	O	|	|	|	0.11
23.333	0.00	0.02	0.007	O	|	|	|	0.10
23.417	0.00	0.02	0.007	O	|	|	|	0.10
23.500	0.00	0.02	0.007	O	|	|	|	0.10
23.583	0.00	0.02	0.007	O	|	|	|	0.10
23.667	0.00	0.02	0.007	O	|	|	|	0.09
23.750	0.00	0.02	0.006	O	|	|	|	0.09
23.833	0.00	0.02	0.006	O	|	|	|	0.09
23.917	0.00	0.02	0.006	O	|	|	|	0.09

24.000	0.00	0.02	0.006	O	|	|	|	0.09
24.083	0.00	0.02	0.006	O	|	|	|	0.08
24.167	0.00	0.02	0.006	O	|	|	|	0.08
24.250	0.00	0.02	0.006	O	|	|	|	0.08
24.333	0.00	0.02	0.006	O	|	|	|	0.08
24.417	0.00	0.02	0.005	O	|	|	|	0.08
24.500	0.00	0.02	0.005	O	|	|	|	0.08
24.583	0.00	0.02	0.005	O	|	|	|	0.07
24.667	0.00	0.02	0.005	O	|	|	|	0.07
24.750	0.00	0.02	0.005	O	|	|	|	0.07
24.833	0.00	0.02	0.005	O	|	|	|	0.07
24.917	0.00	0.02	0.005	O	|	|	|	0.07
25.000	0.00	0.02	0.005	O	|	|	|	0.07
25.083	0.00	0.01	0.005	O	|	|	|	0.06
25.167	0.00	0.01	0.004	O	|	|	|	0.06
25.250	0.00	0.01	0.004	O	|	|	|	0.06
25.333	0.00	0.01	0.004	O	|	|	|	0.06
25.417	0.00	0.01	0.004	O	|	|	|	0.06
25.500	0.00	0.01	0.004	O	|	|	|	0.06
25.583	0.00	0.01	0.004	O	|	|	|	0.06
25.667	0.00	0.01	0.004	O	|	|	|	0.06
25.750	0.00	0.01	0.004	O	|	|	|	0.05
25.833	0.00	0.01	0.004	O	|	|	|	0.05
25.917	0.00	0.01	0.004	O	|	|	|	0.05
26.000	0.00	0.01	0.004	O	|	|	|	0.05
26.083	0.00	0.01	0.003	O	|	|	|	0.05
26.167	0.00	0.01	0.003	O	|	|	|	0.05
26.250	0.00	0.01	0.003	O	|	|	|	0.05
26.333	0.00	0.01	0.003	O	|	|	|	0.05
26.417	0.00	0.01	0.003	O	|	|	|	0.04
26.500	0.00	0.01	0.003	O	|	|	|	0.04
26.583	0.00	0.01	0.003	O	|	|	|	0.04
26.667	0.00	0.01	0.003	O	|	|	|	0.04
26.750	0.00	0.01	0.003	O	|	|	|	0.04
26.833	0.00	0.01	0.003	O	|	|	|	0.04
26.917	0.00	0.01	0.003	O	|	|	|	0.04
27.000	0.00	0.01	0.003	O	|	|	|	0.04
27.083	0.00	0.01	0.003	O	|	|	|	0.04
27.167	0.00	0.01	0.003	O	|	|	|	0.04
27.250	0.00	0.01	0.003	O	|	|	|	0.04
27.333	0.00	0.01	0.002	O	|	|	|	0.04
27.417	0.00	0.01	0.002	O	|	|	|	0.03
27.500	0.00	0.01	0.002	O	|	|	|	0.03
27.583	0.00	0.01	0.002	O	|	|	|	0.03
27.667	0.00	0.01	0.002	O	|	|	|	0.03
27.750	0.00	0.01	0.002	O	|	|	|	0.03
27.833	0.00	0.01	0.002	O	|	|	|	0.03
27.917	0.00	0.01	0.002	O	|	|	|	0.03
28.000	0.00	0.01	0.002	O	|	|	|	0.03
28.083	0.00	0.01	0.002	O	|	|	|	0.03
28.167	0.00	0.01	0.002	O	|	|	|	0.03
28.250	0.00	0.01	0.002	O	|	|	|	0.03
28.333	0.00	0.01	0.002	O	|	|	|	0.03
28.417	0.00	0.01	0.002	O	|	|	|	0.03
28.500	0.00	0.01	0.002	O	|	|	|	0.03
28.583	0.00	0.01	0.002	O	|	|	|	0.02
28.667	0.00	0.01	0.002	O	|	|	|	0.02
28.750	0.00	0.01	0.002	O	|	|	|	0.02
28.833	0.00	0.01	0.002	O	|	|	|	0.02
28.917	0.00	0.01	0.002	O	|	|	|	0.02

29.000	0.00	0.01	0.002	O	|	|	|	0.02
29.083	0.00	0.01	0.002	O	|	|	|	0.02
29.167	0.00	0.00	0.001	O	|	|	|	0.02
29.250	0.00	0.00	0.001	O	|	|	|	0.02
29.333	0.00	0.00	0.001	O	|	|	|	0.02
29.417	0.00	0.00	0.001	O	|	|	|	0.02
29.500	0.00	0.00	0.001	O	|	|	|	0.02
29.583	0.00	0.00	0.001	O	|	|	|	0.02
29.667	0.00	0.00	0.001	O	|	|	|	0.02
29.750	0.00	0.00	0.001	O	|	|	|	0.02
29.833	0.00	0.00	0.001	O	|	|	|	0.02
29.917	0.00	0.00	0.001	O	|	|	|	0.02
30.000	0.00	0.00	0.001	O	|	|	|	0.02
30.083	0.00	0.00	0.001	O	|	|	|	0.02
30.167	0.00	0.00	0.001	O	|	|	|	0.02
30.250	0.00	0.00	0.001	O	|	|	|	0.02
30.333	0.00	0.00	0.001	O	|	|	|	0.02
30.417	0.00	0.00	0.001	O	|	|	|	0.02
30.500	0.00	0.00	0.001	O	|	|	|	0.01
30.583	0.00	0.00	0.001	O	|	|	|	0.01
30.667	0.00	0.00	0.001	O	|	|	|	0.01
30.750	0.00	0.00	0.001	O	|	|	|	0.01
30.833	0.00	0.00	0.001	O	|	|	|	0.01
30.917	0.00	0.00	0.001	O	|	|	|	0.01
31.000	0.00	0.00	0.001	O	|	|	|	0.01
31.083	0.00	0.00	0.001	O	|	|	|	0.01
31.167	0.00	0.00	0.001	O	|	|	|	0.01
31.250	0.00	0.00	0.001	O	|	|	|	0.01
31.333	0.00	0.00	0.001	O	|	|	|	0.01
31.417	0.00	0.00	0.001	O	|	|	|	0.01
31.500	0.00	0.00	0.001	O	|	|	|	0.01
31.583	0.00	0.00	0.001	O	|	|	|	0.01
31.667	0.00	0.00	0.001	O	|	|	|	0.01
31.750	0.00	0.00	0.001	O	|	|	|	0.01
31.833	0.00	0.00	0.001	O	|	|	|	0.01
31.917	0.00	0.00	0.001	O	|	|	|	0.01
32.000	0.00	0.00	0.001	O	|	|	|	0.01
32.083	0.00	0.00	0.001	O	|	|	|	0.01
32.167	0.00	0.00	0.001	O	|	|	|	0.01
32.250	0.00	0.00	0.001	O	|	|	|	0.01
32.333	0.00	0.00	0.001	O	|	|	|	0.01
32.417	0.00	0.00	0.001	O	|	|	|	0.01
32.500	0.00	0.00	0.001	O	|	|	|	0.01
32.583	0.00	0.00	0.001	O	|	|	|	0.01
32.667	0.00	0.00	0.001	O	|	|	|	0.01
32.750	0.00	0.00	0.001	O	|	|	|	0.01
32.833	0.00	0.00	0.001	O	|	|	|	0.01
32.917	0.00	0.00	0.001	O	|	|	|	0.01
33.000	0.00	0.00	0.001	O	|	|	|	0.01
33.083	0.00	0.00	0.001	O	|	|	|	0.01
33.167	0.00	0.00	0.001	O	|	|	|	0.01
33.250	0.00	0.00	0.000	O	|	|	|	0.01
33.333	0.00	0.00	0.000	O	|	|	|	0.01
33.417	0.00	0.00	0.000	O	|	|	|	0.01
33.500	0.00	0.00	0.000	O	|	|	|	0.01
33.583	0.00	0.00	0.000	O	|	|	|	0.01
33.667	0.00	0.00	0.000	O	|	|	|	0.01
33.750	0.00	0.00	0.000	O	|	|	|	0.01
33.833	0.00	0.00	0.000	O	|	|	|	0.01
33.917	0.00	0.00	0.000	O	|	|	|	0.01

34.000	0.00	0.00	0.000	O	|	|	|	|	0.01
34.083	0.00	0.00	0.000	O	|	|	|	|	0.01
34.167	0.00	0.00	0.000	O	|	|	|	|	0.01
34.250	0.00	0.00	0.000	O	|	|	|	|	0.01
34.333	0.00	0.00	0.000	O	|	|	|	|	0.01
34.417	0.00	0.00	0.000	O	|	|	|	|	0.01
34.500	0.00	0.00	0.000	O	|	|	|	|	0.00
34.583	0.00	0.00	0.000	O	|	|	|	|	0.00
34.667	0.00	0.00	0.000	O	|	|	|	|	0.00
34.750	0.00	0.00	0.000	O	|	|	|	|	0.00
34.833	0.00	0.00	0.000	O	|	|	|	|	0.00
34.917	0.00	0.00	0.000	O	|	|	|	|	0.00
35.000	0.00	0.00	0.000	O	|	|	|	|	0.00
35.083	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 421
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.284 (CFS)
Total volume = 0.507 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
10-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 72
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 5.961 (CFS)
Total volume = 0.665 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 72
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 1.5 2.98 4.47 5.96	Depth (Ft.)
0.083	0.46	0.01	0.002	O I	0.02
0.167	0.56	0.02	0.005	O I	0.07
0.250	0.56	0.03	0.009	O I	0.12
0.333	0.56	0.04	0.012	O I	0.18
0.417	0.56	0.05	0.016	O I	0.23
0.500	0.65	0.06	0.020	O I	0.28
0.583	0.65	0.08	0.023	O I	0.34
0.667	0.65	0.09	0.027	O I	0.39
0.750	0.65	0.10	0.031	O I	0.45
0.833	0.65	0.11	0.035	O I	0.50
0.917	0.65	0.13	0.039	O I	0.55
1.000	0.74	0.14	0.042	O I	0.61
1.083	0.74	0.15	0.046	O I	0.66
1.167	0.74	0.17	0.050	O I	0.72
1.250	0.74	0.18	0.054	O I	0.78
1.333	0.74	0.19	0.058	O I	0.83
1.417	0.74	0.20	0.062	O I	0.89
1.500	0.74	0.22	0.066	O I	0.94
1.583	0.74	0.23	0.069	O I	0.99
1.667	0.74	0.23	0.073	O I	1.03
1.750	0.74	0.23	0.076	O I	1.07
1.833	0.74	0.23	0.080	O I	1.11
1.917	0.74	0.23	0.083	O I	1.14
2.000	0.83	0.23	0.087	O I	1.18
2.083	0.74	0.23	0.091	O I	1.23
2.167	0.83	0.23	0.095	O I	1.27
2.250	0.83	0.23	0.099	O I	1.31
2.333	0.83	0.23	0.103	O I	1.36
2.417	0.83	0.23	0.107	O I	1.40
2.500	0.83	0.23	0.111	O I	1.45
2.583	0.83	0.23	0.116	O I	1.49
2.667	0.83	0.23	0.120	O I	1.53
2.750	0.93	0.23	0.124	O I	1.58
2.833	0.93	0.23	0.129	O I	1.63
2.917	0.93	0.23	0.134	O I	1.69
3.000	0.93	0.23	0.139	O I	1.74
3.083	0.93	0.23	0.143	O I	1.79
3.167	1.02	0.23	0.148	O I	1.84
3.250	1.02	0.23	0.154	O I	1.90
3.333	1.02	0.23	0.159	O I	1.96
3.417	1.11	0.23	0.165	O I	2.02
3.500	1.20	0.23	0.171	O I	2.08
3.583	1.30	0.23	0.178	O I	2.15
3.667	1.30	0.23	0.186	O I	2.22
3.750	1.39	0.23	0.193	O I	2.29
3.833	1.39	0.23	0.201	O I	2.36
3.917	1.48	0.23	0.210	O I	2.44

4.000	1.48	0.23	0.218	O I				2.52
4.083	1.57	0.23	0.227	O I				2.61
4.167	1.67	0.23	0.237	O I				2.70
4.250	1.78	0.23	0.247	O I				2.79
4.333	1.90	0.23	0.258	O I				2.90
4.417	2.01	0.25	0.270	O I				3.01
4.500	2.01	0.45	0.282	O I				3.11
4.583	2.12	0.63	0.292	O I				3.21
4.667	2.24	0.81	0.302	O I				3.30
4.750	2.35	0.98	0.312	O I				3.39
4.833	2.35	1.13	0.321	O I				3.47
4.917	2.46	1.28	0.329	O I				3.54
5.000	2.57	1.42	0.337	O I				3.62
5.083	3.14	1.58	0.346	O I				3.70
5.167	3.70	1.79	0.358	O I				3.81
5.250	4.04	2.03	0.372	O I				3.94
5.333	4.38	2.21	0.386	O I				4.07
5.417	4.95	2.35	0.403	O I				4.22
5.500	5.96	2.53	0.423	O I				4.41
5.583	1.78	2.61	0.432	O I				4.50
5.667	0.83	2.53	0.424	O I				4.42
5.750	0.56	2.43	0.411	O I				4.30
5.833	0.46	2.32	0.399	O I				4.18
5.917	0.28	2.21	0.385	O I				4.06
6.000	0.19	2.04	0.372	O I				3.94
6.083	0.00	1.82	0.360	O I				3.83
6.167	0.00	1.61	0.348	O I				3.72
6.250	0.00	1.43	0.338	O I				3.62
6.333	0.00	1.27	0.328	O I				3.54
6.417	0.00	1.12	0.320	O I				3.46
6.500	0.00	0.99	0.313	O I				3.40
6.583	0.00	0.88	0.306	O I				3.34
6.667	0.00	0.78	0.301	O I				3.29
6.750	0.00	0.69	0.296	O I				3.24
6.833	0.00	0.61	0.291	O I				3.20
6.917	0.00	0.54	0.287	O I				3.16
7.000	0.00	0.48	0.284	O I				3.13
7.083	0.00	0.43	0.280	O I				3.10
7.167	0.00	0.38	0.278	O I				3.08
7.250	0.00	0.34	0.275	O I				3.06
7.333	0.00	0.30	0.273	O I				3.04
7.417	0.00	0.26	0.271	O I				3.02
7.500	0.00	0.23	0.269	O I				3.00
7.583	0.00	0.23	0.268	O I				2.99
7.667	0.00	0.23	0.266	O I				2.97
7.750	0.00	0.23	0.265	O I				2.96
7.833	0.00	0.23	0.263	O I				2.94
7.917	0.00	0.23	0.261	O I				2.93
8.000	0.00	0.23	0.260	O I				2.91
8.083	0.00	0.23	0.258	O I				2.90
8.167	0.00	0.23	0.257	O I				2.88
8.250	0.00	0.23	0.255	O I				2.87
8.333	0.00	0.23	0.253	O I				2.85
8.417	0.00	0.23	0.252	O I				2.84
8.500	0.00	0.23	0.250	O I				2.82
8.583	0.00	0.23	0.249	O I				2.81
8.667	0.00	0.23	0.247	O I				2.79
8.750	0.00	0.23	0.245	O I				2.78
8.833	0.00	0.23	0.244	O I				2.76
8.917	0.00	0.23	0.242	O I				2.75

9.000	0.00	0.23	0.241	IO				2.73
9.083	0.00	0.23	0.239	IO				2.72
9.167	0.00	0.23	0.238	IO				2.70
9.250	0.00	0.23	0.236	IO				2.69
9.333	0.00	0.23	0.234	IO				2.67
9.417	0.00	0.23	0.233	IO				2.66
9.500	0.00	0.23	0.231	IO				2.64
9.583	0.00	0.23	0.230	IO				2.63
9.667	0.00	0.23	0.228	IO				2.61
9.750	0.00	0.23	0.226	IO				2.60
9.833	0.00	0.23	0.225	IO				2.58
9.917	0.00	0.23	0.223	IO				2.57
10.000	0.00	0.23	0.222	IO				2.55
10.083	0.00	0.23	0.220	IO				2.54
10.167	0.00	0.23	0.219	IO				2.52
10.250	0.00	0.23	0.217	IO				2.51
10.333	0.00	0.23	0.215	IO				2.49
10.417	0.00	0.23	0.214	IO				2.48
10.500	0.00	0.23	0.212	IO				2.46
10.583	0.00	0.23	0.211	IO				2.45
10.667	0.00	0.23	0.209	IO				2.43
10.750	0.00	0.23	0.207	IO				2.42
10.833	0.00	0.23	0.206	IO				2.40
10.917	0.00	0.23	0.204	IO				2.39
11.000	0.00	0.23	0.203	IO				2.37
11.083	0.00	0.23	0.201	IO				2.36
11.167	0.00	0.23	0.200	IO				2.34
11.250	0.00	0.23	0.198	IO				2.33
11.333	0.00	0.23	0.196	IO				2.31
11.417	0.00	0.23	0.195	IO				2.30
11.500	0.00	0.23	0.193	IO				2.29
11.583	0.00	0.23	0.192	IO				2.27
11.667	0.00	0.23	0.190	IO				2.26
11.750	0.00	0.23	0.188	IO				2.24
11.833	0.00	0.23	0.187	IO				2.23
11.917	0.00	0.23	0.185	IO				2.21
12.000	0.00	0.23	0.184	IO				2.20
12.083	0.00	0.23	0.182	IO				2.18
12.167	0.00	0.23	0.181	IO				2.17
12.250	0.00	0.23	0.179	IO				2.15
12.333	0.00	0.23	0.177	IO				2.14
12.417	0.00	0.23	0.176	IO				2.12
12.500	0.00	0.23	0.174	IO				2.11
12.583	0.00	0.23	0.173	IO				2.09
12.667	0.00	0.23	0.171	IO				2.08
12.750	0.00	0.23	0.169	IO				2.06
12.833	0.00	0.23	0.168	IO				2.05
12.917	0.00	0.23	0.166	IO				2.03
13.000	0.00	0.23	0.165	IO				2.02
13.083	0.00	0.23	0.163	IO				2.00
13.167	0.00	0.23	0.162	IO				1.98
13.250	0.00	0.23	0.160	IO				1.97
13.333	0.00	0.23	0.158	IO				1.95
13.417	0.00	0.23	0.157	IO				1.93
13.500	0.00	0.23	0.155	IO				1.92
13.583	0.00	0.23	0.154	IO				1.90
13.667	0.00	0.23	0.152	IO				1.88
13.750	0.00	0.23	0.150	IO				1.87
13.833	0.00	0.23	0.149	IO				1.85
13.917	0.00	0.23	0.147	IO				1.83

14.000	0.00	0.23	0.146	IO				1.81
14.083	0.00	0.23	0.144	IO				1.80
14.167	0.00	0.23	0.143	IO				1.78
14.250	0.00	0.23	0.141	IO				1.76
14.333	0.00	0.23	0.139	IO				1.75
14.417	0.00	0.23	0.138	IO				1.73
14.500	0.00	0.23	0.136	IO				1.71
14.583	0.00	0.23	0.135	IO				1.69
14.667	0.00	0.23	0.133	IO				1.68
14.750	0.00	0.23	0.131	IO				1.66
14.833	0.00	0.23	0.130	IO				1.64
14.917	0.00	0.23	0.128	IO				1.63
15.000	0.00	0.23	0.127	IO				1.61
15.083	0.00	0.23	0.125	IO				1.59
15.167	0.00	0.23	0.124	IO				1.58
15.250	0.00	0.23	0.122	IO				1.56
15.333	0.00	0.23	0.120	IO				1.54
15.417	0.00	0.23	0.119	IO				1.52
15.500	0.00	0.23	0.117	IO				1.51
15.583	0.00	0.23	0.116	IO				1.49
15.667	0.00	0.23	0.114	IO				1.47
15.750	0.00	0.23	0.112	IO				1.46
15.833	0.00	0.23	0.111	IO				1.44
15.917	0.00	0.23	0.109	IO				1.42
16.000	0.00	0.23	0.108	IO				1.41
16.083	0.00	0.23	0.106	IO				1.39
16.167	0.00	0.23	0.105	IO				1.37
16.250	0.00	0.23	0.103	IO				1.35
16.333	0.00	0.23	0.101	IO				1.34
16.417	0.00	0.23	0.100	IO				1.32
16.500	0.00	0.23	0.098	IO				1.30
16.583	0.00	0.23	0.097	IO				1.29
16.667	0.00	0.23	0.095	IO				1.27
16.750	0.00	0.23	0.093	IO				1.25
16.833	0.00	0.23	0.092	IO				1.23
16.917	0.00	0.23	0.090	IO				1.22
17.000	0.00	0.23	0.089	IO				1.20
17.083	0.00	0.23	0.087	IO				1.18
17.167	0.00	0.23	0.086	IO				1.17
17.250	0.00	0.23	0.084	IO				1.15
17.333	0.00	0.23	0.082	IO				1.13
17.417	0.00	0.23	0.081	IO				1.12
17.500	0.00	0.23	0.079	IO				1.10
17.583	0.00	0.23	0.078	IO				1.08
17.667	0.00	0.23	0.076	IO				1.06
17.750	0.00	0.23	0.074	IO				1.05
17.833	0.00	0.23	0.073	IO				1.03
17.917	0.00	0.23	0.071	IO				1.01
18.000	0.00	0.23	0.070	IO				1.00
18.083	0.00	0.22	0.068	IO				0.97
18.167	0.00	0.22	0.067	IO				0.95
18.250	0.00	0.21	0.065	IO				0.93
18.333	0.00	0.21	0.064	IO				0.91
18.417	0.00	0.20	0.062	IO				0.89
18.500	0.00	0.20	0.061	IO				0.87
18.583	0.00	0.20	0.059	IO				0.85
18.667	0.00	0.19	0.058	IO				0.83
18.750	0.00	0.19	0.057	IO				0.81
18.833	0.00	0.18	0.056	O				0.79
18.917	0.00	0.18	0.054	O				0.78

19.000	0.00	0.17	0.053	O	|	|	|	0.76
19.083	0.00	0.17	0.052	O	|	|	|	0.74
19.167	0.00	0.17	0.051	O	|	|	|	0.73
19.250	0.00	0.16	0.050	O	|	|	|	0.71
19.333	0.00	0.16	0.049	O	|	|	|	0.69
19.417	0.00	0.16	0.047	O	|	|	|	0.68
19.500	0.00	0.15	0.046	O	|	|	|	0.66
19.583	0.00	0.15	0.045	O	|	|	|	0.65
19.667	0.00	0.15	0.044	O	|	|	|	0.63
19.750	0.00	0.14	0.043	O	|	|	|	0.62
19.833	0.00	0.14	0.042	O	|	|	|	0.60
19.917	0.00	0.14	0.041	O	|	|	|	0.59
20.000	0.00	0.13	0.040	O	|	|	|	0.58
20.083	0.00	0.13	0.040	O	|	|	|	0.57
20.167	0.00	0.13	0.039	O	|	|	|	0.55
20.250	0.00	0.12	0.038	O	|	|	|	0.54
20.333	0.00	0.12	0.037	O	|	|	|	0.53
20.417	0.00	0.12	0.036	O	|	|	|	0.52
20.500	0.00	0.12	0.035	O	|	|	|	0.50
20.583	0.00	0.11	0.035	O	|	|	|	0.49
20.667	0.00	0.11	0.034	O	|	|	|	0.48
20.750	0.00	0.11	0.033	O	|	|	|	0.47
20.833	0.00	0.11	0.032	O	|	|	|	0.46
20.917	0.00	0.10	0.032	O	|	|	|	0.45
21.000	0.00	0.10	0.031	O	|	|	|	0.44
21.083	0.00	0.10	0.030	O	|	|	|	0.43
21.167	0.00	0.10	0.029	O	|	|	|	0.42
21.250	0.00	0.09	0.029	O	|	|	|	0.41
21.333	0.00	0.09	0.028	O	|	|	|	0.40
21.417	0.00	0.09	0.028	O	|	|	|	0.39
21.500	0.00	0.09	0.027	O	|	|	|	0.38
21.583	0.00	0.09	0.026	O	|	|	|	0.38
21.667	0.00	0.08	0.026	O	|	|	|	0.37
21.750	0.00	0.08	0.025	O	|	|	|	0.36
21.833	0.00	0.08	0.025	O	|	|	|	0.35
21.917	0.00	0.08	0.024	O	|	|	|	0.34
22.000	0.00	0.08	0.024	O	|	|	|	0.34
22.083	0.00	0.08	0.023	O	|	|	|	0.33
22.167	0.00	0.07	0.022	O	|	|	|	0.32
22.250	0.00	0.07	0.022	O	|	|	|	0.31
22.333	0.00	0.07	0.021	O	|	|	|	0.31
22.417	0.00	0.07	0.021	O	|	|	|	0.30
22.500	0.00	0.07	0.021	O	|	|	|	0.29
22.583	0.00	0.07	0.020	O	|	|	|	0.29
22.667	0.00	0.06	0.020	O	|	|	|	0.28
22.750	0.00	0.06	0.019	O	|	|	|	0.27
22.833	0.00	0.06	0.019	O	|	|	|	0.27
22.917	0.00	0.06	0.018	O	|	|	|	0.26
23.000	0.00	0.06	0.018	O	|	|	|	0.26
23.083	0.00	0.06	0.018	O	|	|	|	0.25
23.167	0.00	0.06	0.017	O	|	|	|	0.24
23.250	0.00	0.06	0.017	O	|	|	|	0.24
23.333	0.00	0.05	0.016	O	|	|	|	0.23
23.417	0.00	0.05	0.016	O	|	|	|	0.23
23.500	0.00	0.05	0.016	O	|	|	|	0.22
23.583	0.00	0.05	0.015	O	|	|	|	0.22
23.667	0.00	0.05	0.015	O	|	|	|	0.21
23.750	0.00	0.05	0.015	O	|	|	|	0.21
23.833	0.00	0.05	0.014	O	|	|	|	0.20
23.917	0.00	0.05	0.014	O	|	|	|	0.20

24.000	0.00	0.04	0.014	O	|	|	|	0.20
24.083	0.00	0.04	0.013	O	|	|	|	0.19
24.167	0.00	0.04	0.013	O	|	|	|	0.19
24.250	0.00	0.04	0.013	O	|	|	|	0.18
24.333	0.00	0.04	0.012	O	|	|	|	0.18
24.417	0.00	0.04	0.012	O	|	|	|	0.17
24.500	0.00	0.04	0.012	O	|	|	|	0.17
24.583	0.00	0.04	0.012	O	|	|	|	0.17
24.667	0.00	0.04	0.011	O	|	|	|	0.16
24.750	0.00	0.04	0.011	O	|	|	|	0.16
24.833	0.00	0.04	0.011	O	|	|	|	0.16
24.917	0.00	0.03	0.011	O	|	|	|	0.15
25.000	0.00	0.03	0.010	O	|	|	|	0.15
25.083	0.00	0.03	0.010	O	|	|	|	0.15
25.167	0.00	0.03	0.010	O	|	|	|	0.14
25.250	0.00	0.03	0.010	O	|	|	|	0.14
25.333	0.00	0.03	0.010	O	|	|	|	0.14
25.417	0.00	0.03	0.009	O	|	|	|	0.13
25.500	0.00	0.03	0.009	O	|	|	|	0.13
25.583	0.00	0.03	0.009	O	|	|	|	0.13
25.667	0.00	0.03	0.009	O	|	|	|	0.12
25.750	0.00	0.03	0.008	O	|	|	|	0.12
25.833	0.00	0.03	0.008	O	|	|	|	0.12
25.917	0.00	0.03	0.008	O	|	|	|	0.12
26.000	0.00	0.03	0.008	O	|	|	|	0.11
26.083	0.00	0.03	0.008	O	|	|	|	0.11
26.167	0.00	0.02	0.008	O	|	|	|	0.11
26.250	0.00	0.02	0.007	O	|	|	|	0.11
26.333	0.00	0.02	0.007	O	|	|	|	0.10
26.417	0.00	0.02	0.007	O	|	|	|	0.10
26.500	0.00	0.02	0.007	O	|	|	|	0.10
26.583	0.00	0.02	0.007	O	|	|	|	0.10
26.667	0.00	0.02	0.007	O	|	|	|	0.09
26.750	0.00	0.02	0.006	O	|	|	|	0.09
26.833	0.00	0.02	0.006	O	|	|	|	0.09
26.917	0.00	0.02	0.006	O	|	|	|	0.09
27.000	0.00	0.02	0.006	O	|	|	|	0.09
27.083	0.00	0.02	0.006	O	|	|	|	0.08
27.167	0.00	0.02	0.006	O	|	|	|	0.08
27.250	0.00	0.02	0.006	O	|	|	|	0.08
27.333	0.00	0.02	0.006	O	|	|	|	0.08
27.417	0.00	0.02	0.005	O	|	|	|	0.08
27.500	0.00	0.02	0.005	O	|	|	|	0.08
27.583	0.00	0.02	0.005	O	|	|	|	0.07
27.667	0.00	0.02	0.005	O	|	|	|	0.07
27.750	0.00	0.02	0.005	O	|	|	|	0.07
27.833	0.00	0.02	0.005	O	|	|	|	0.07
27.917	0.00	0.02	0.005	O	|	|	|	0.07
28.000	0.00	0.02	0.005	O	|	|	|	0.07
28.083	0.00	0.01	0.005	O	|	|	|	0.06
28.167	0.00	0.01	0.004	O	|	|	|	0.06
28.250	0.00	0.01	0.004	O	|	|	|	0.06
28.333	0.00	0.01	0.004	O	|	|	|	0.06
28.417	0.00	0.01	0.004	O	|	|	|	0.06
28.500	0.00	0.01	0.004	O	|	|	|	0.06
28.583	0.00	0.01	0.004	O	|	|	|	0.06
28.667	0.00	0.01	0.004	O	|	|	|	0.05
28.750	0.00	0.01	0.004	O	|	|	|	0.05
28.833	0.00	0.01	0.004	O	|	|	|	0.05
28.917	0.00	0.01	0.004	O	|	|	|	0.05

29.000	0.00	0.01	0.004	O	|	|	|	0.05
29.083	0.00	0.01	0.003	O	|	|	|	0.05
29.167	0.00	0.01	0.003	O	|	|	|	0.05
29.250	0.00	0.01	0.003	O	|	|	|	0.05
29.333	0.00	0.01	0.003	O	|	|	|	0.05
29.417	0.00	0.01	0.003	O	|	|	|	0.04
29.500	0.00	0.01	0.003	O	|	|	|	0.04
29.583	0.00	0.01	0.003	O	|	|	|	0.04
29.667	0.00	0.01	0.003	O	|	|	|	0.04
29.750	0.00	0.01	0.003	O	|	|	|	0.04
29.833	0.00	0.01	0.003	O	|	|	|	0.04
29.917	0.00	0.01	0.003	O	|	|	|	0.04
30.000	0.00	0.01	0.003	O	|	|	|	0.04
30.083	0.00	0.01	0.003	O	|	|	|	0.04
30.167	0.00	0.01	0.003	O	|	|	|	0.04
30.250	0.00	0.01	0.003	O	|	|	|	0.04
30.333	0.00	0.01	0.002	O	|	|	|	0.03
30.417	0.00	0.01	0.002	O	|	|	|	0.03
30.500	0.00	0.01	0.002	O	|	|	|	0.03
30.583	0.00	0.01	0.002	O	|	|	|	0.03
30.667	0.00	0.01	0.002	O	|	|	|	0.03
30.750	0.00	0.01	0.002	O	|	|	|	0.03
30.833	0.00	0.01	0.002	O	|	|	|	0.03
30.917	0.00	0.01	0.002	O	|	|	|	0.03
31.000	0.00	0.01	0.002	O	|	|	|	0.03
31.083	0.00	0.01	0.002	O	|	|	|	0.03
31.167	0.00	0.01	0.002	O	|	|	|	0.03
31.250	0.00	0.01	0.002	O	|	|	|	0.03
31.333	0.00	0.01	0.002	O	|	|	|	0.03
31.417	0.00	0.01	0.002	O	|	|	|	0.03
31.500	0.00	0.01	0.002	O	|	|	|	0.03
31.583	0.00	0.01	0.002	O	|	|	|	0.02
31.667	0.00	0.01	0.002	O	|	|	|	0.02
31.750	0.00	0.01	0.002	O	|	|	|	0.02
31.833	0.00	0.01	0.002	O	|	|	|	0.02
31.917	0.00	0.01	0.002	O	|	|	|	0.02
32.000	0.00	0.01	0.002	O	|	|	|	0.02
32.083	0.00	0.00	0.002	O	|	|	|	0.02
32.167	0.00	0.00	0.001	O	|	|	|	0.02
32.250	0.00	0.00	0.001	O	|	|	|	0.02
32.333	0.00	0.00	0.001	O	|	|	|	0.02
32.417	0.00	0.00	0.001	O	|	|	|	0.02
32.500	0.00	0.00	0.001	O	|	|	|	0.02
32.583	0.00	0.00	0.001	O	|	|	|	0.02
32.667	0.00	0.00	0.001	O	|	|	|	0.02
32.750	0.00	0.00	0.001	O	|	|	|	0.02
32.833	0.00	0.00	0.001	O	|	|	|	0.02
32.917	0.00	0.00	0.001	O	|	|	|	0.02
33.000	0.00	0.00	0.001	O	|	|	|	0.02
33.083	0.00	0.00	0.001	O	|	|	|	0.02
33.167	0.00	0.00	0.001	O	|	|	|	0.02
33.250	0.00	0.00	0.001	O	|	|	|	0.02
33.333	0.00	0.00	0.001	O	|	|	|	0.02
33.417	0.00	0.00	0.001	O	|	|	|	0.02
33.500	0.00	0.00	0.001	O	|	|	|	0.01
33.583	0.00	0.00	0.001	O	|	|	|	0.01
33.667	0.00	0.00	0.001	O	|	|	|	0.01
33.750	0.00	0.00	0.001	O	|	|	|	0.01
33.833	0.00	0.00	0.001	O	|	|	|	0.01
33.917	0.00	0.00	0.001	O	|	|	|	0.01

34.000	0.00	0.00	0.001	O	|	|	|	|	0.01
34.083	0.00	0.00	0.001	O	|	|	|	|	0.01
34.167	0.00	0.00	0.001	O	|	|	|	|	0.01
34.250	0.00	0.00	0.001	O	|	|	|	|	0.01
34.333	0.00	0.00	0.001	O	|	|	|	|	0.01
34.417	0.00	0.00	0.001	O	|	|	|	|	0.01
34.500	0.00	0.00	0.001	O	|	|	|	|	0.01
34.583	0.00	0.00	0.001	O	|	|	|	|	0.01
34.667	0.00	0.00	0.001	O	|	|	|	|	0.01
34.750	0.00	0.00	0.001	O	|	|	|	|	0.01
34.833	0.00	0.00	0.001	O	|	|	|	|	0.01
34.917	0.00	0.00	0.001	O	|	|	|	|	0.01
35.000	0.00	0.00	0.001	O	|	|	|	|	0.01
35.083	0.00	0.00	0.001	O	|	|	|	|	0.01
35.167	0.00	0.00	0.001	O	|	|	|	|	0.01
35.250	0.00	0.00	0.001	O	|	|	|	|	0.01
35.333	0.00	0.00	0.001	O	|	|	|	|	0.01
35.417	0.00	0.00	0.001	O	|	|	|	|	0.01
35.500	0.00	0.00	0.001	O	|	|	|	|	0.01
35.583	0.00	0.00	0.001	O	|	|	|	|	0.01
35.667	0.00	0.00	0.001	O	|	|	|	|	0.01
35.750	0.00	0.00	0.001	O	|	|	|	|	0.01
35.833	0.00	0.00	0.001	O	|	|	|	|	0.01
35.917	0.00	0.00	0.001	O	|	|	|	|	0.01
36.000	0.00	0.00	0.001	O	|	|	|	|	0.01
36.083	0.00	0.00	0.001	O	|	|	|	|	0.01
36.167	0.00	0.00	0.001	O	|	|	|	|	0.01
36.250	0.00	0.00	0.000	O	|	|	|	|	0.01
36.333	0.00	0.00	0.000	O	|	|	|	|	0.01
36.417	0.00	0.00	0.000	O	|	|	|	|	0.01
36.500	0.00	0.00	0.000	O	|	|	|	|	0.01
36.583	0.00	0.00	0.000	O	|	|	|	|	0.01
36.667	0.00	0.00	0.000	O	|	|	|	|	0.01
36.750	0.00	0.00	0.000	O	|	|	|	|	0.01
36.833	0.00	0.00	0.000	O	|	|	|	|	0.01
36.917	0.00	0.00	0.000	O	|	|	|	|	0.01
37.000	0.00	0.00	0.000	O	|	|	|	|	0.01
37.083	0.00	0.00	0.000	O	|	|	|	|	0.01
37.167	0.00	0.00	0.000	O	|	|	|	|	0.01
37.250	0.00	0.00	0.000	O	|	|	|	|	0.01
37.333	0.00	0.00	0.000	O	|	|	|	|	0.01
37.417	0.00	0.00	0.000	O	|	|	|	|	0.01
37.500	0.00	0.00	0.000	O	|	|	|	|	0.00
37.583	0.00	0.00	0.000	O	|	|	|	|	0.00
37.667	0.00	0.00	0.000	O	|	|	|	|	0.00
37.750	0.00	0.00	0.000	O	|	|	|	|	0.00
37.833	0.00	0.00	0.000	O	|	|	|	|	0.00
37.917	0.00	0.00	0.000	O	|	|	|	|	0.00
38.000	0.00	0.00	0.000	O	|	|	|	|	0.00
38.083	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 457
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.609 (CFS)
Total volume = 0.664 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
10-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 288
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.738 (CFS)
Total volume = 1.022 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 288
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.4	0.87	1.30	1.74	Depth (Ft.)
0.083	0.10	0.00	0.000	OI	|	|	|	|	0.00
0.167	0.10	0.00	0.001	OI	|	|	|	|	0.01
0.250	0.10	0.01	0.002	OI	|	|	|	|	0.02
0.333	0.15	0.01	0.002	O I	|	|	|	|	0.04
0.417	0.15	0.01	0.003	O I	|	|	|	|	0.05
0.500	0.15	0.01	0.004	O I	|	|	|	|	0.06
0.583	0.15	0.02	0.005	O I	|	|	|	|	0.08
0.667	0.15	0.02	0.006	O I	|	|	|	|	0.09
0.750	0.15	0.02	0.007	O I	|	|	|	|	0.10
0.833	0.20	0.03	0.008	O I	|	|	|	|	0.11
0.917	0.20	0.03	0.009	O I	|	|	|	|	0.13
1.000	0.20	0.03	0.010	O I	|	|	|	|	0.15
1.083	0.15	0.04	0.011	O I	|	|	|	|	0.16
1.167	0.15	0.04	0.012	O I	|	|	|	|	0.17
1.250	0.15	0.04	0.013	O I	|	|	|	|	0.18
1.333	0.15	0.04	0.014	O I	|	|	|	|	0.19
1.417	0.15	0.05	0.014	O I	|	|	|	|	0.20
1.500	0.15	0.05	0.015	O I	|	|	|	|	0.21
1.583	0.15	0.05	0.016	O I	|	|	|	|	0.22
1.667	0.15	0.05	0.016	O I	|	|	|	|	0.23
1.750	0.15	0.06	0.017	|OI	|	|	|	|	0.24
1.833	0.20	0.06	0.018	|O I	|	|	|	|	0.25
1.917	0.20	0.06	0.019	|O I	|	|	|	|	0.27
2.000	0.20	0.06	0.020	|O I	|	|	|	|	0.28
2.083	0.20	0.07	0.020	|O I	|	|	|	|	0.29
2.167	0.20	0.07	0.021	|O I	|	|	|	|	0.31
2.250	0.20	0.07	0.022	|O I	|	|	|	|	0.32
2.333	0.20	0.08	0.023	|O I	|	|	|	|	0.33
2.417	0.20	0.08	0.024	|O I	|	|	|	|	0.34
2.500	0.20	0.08	0.025	|O I	|	|	|	|	0.35
2.583	0.25	0.08	0.026	|O I	|	|	|	|	0.37
2.667	0.25	0.09	0.027	|O I	|	|	|	|	0.38
2.750	0.25	0.09	0.028	|O I	|	|	|	|	0.40
2.833	0.25	0.10	0.029	|O I	|	|	|	|	0.41
2.917	0.25	0.10	0.030	|O I	|	|	|	|	0.43
3.000	0.25	0.10	0.031	|O I	|	|	|	|	0.44
3.083	0.25	0.10	0.032	|O I	|	|	|	|	0.46
3.167	0.25	0.11	0.033	|O I	|	|	|	|	0.47
3.250	0.25	0.11	0.034	| O I	|	|	|	|	0.48
3.333	0.25	0.11	0.035	| O I	|	|	|	|	0.50
3.417	0.25	0.12	0.036	| O I	|	|	|	|	0.51
3.500	0.25	0.12	0.037	| O I	|	|	|	|	0.52
3.583	0.25	0.12	0.037	| O I	|	|	|	|	0.53
3.667	0.25	0.13	0.038	| O I	|	|	|	|	0.55
3.750	0.25	0.13	0.039	| O I	|	|	|	|	0.56
3.833	0.30	0.13	0.040	| O I	|	|	|	|	0.57
3.917	0.30	0.14	0.041	| O I	|	|	|	|	0.59

4.000	0.30	0.14	0.042	O I				0.60
4.083	0.30	0.14	0.043	O I				0.62
4.167	0.30	0.15	0.044	O I				0.63
4.250	0.30	0.15	0.045	O I				0.65
4.333	0.35	0.15	0.047	O I				0.67
4.417	0.35	0.16	0.048	O I				0.68
4.500	0.35	0.16	0.049	O I				0.70
4.583	0.35	0.17	0.050	O I				0.72
4.667	0.35	0.17	0.052	O I				0.74
4.750	0.35	0.17	0.053	O I				0.76
4.833	0.40	0.18	0.054	O I				0.77
4.917	0.40	0.18	0.056	O I				0.80
5.000	0.40	0.19	0.057	O I				0.82
5.083	0.30	0.19	0.058	O I				0.83
5.167	0.30	0.19	0.059	O I				0.84
5.250	0.30	0.20	0.060	O I				0.85
5.333	0.35	0.20	0.060	O I				0.86
5.417	0.35	0.20	0.061	O I				0.88
5.500	0.35	0.21	0.062	O I				0.89
5.583	0.40	0.21	0.064	O I				0.91
5.667	0.40	0.21	0.065	O I				0.93
5.750	0.40	0.22	0.066	O I				0.94
5.833	0.40	0.22	0.067	O I				0.96
5.917	0.40	0.22	0.068	O I				0.98
6.000	0.40	0.23	0.070	O I				0.99
6.083	0.44	0.23	0.071	O I				1.01
6.167	0.44	0.23	0.072	O I				1.03
6.250	0.44	0.23	0.074	O I				1.04
6.333	0.44	0.23	0.075	O I				1.06
6.417	0.44	0.23	0.077	O I				1.07
6.500	0.44	0.23	0.078	O I				1.09
6.583	0.49	0.23	0.080	O	I			1.11
6.667	0.49	0.23	0.082	O	I			1.13
6.750	0.49	0.23	0.084	O	I			1.15
6.833	0.49	0.23	0.085	O	I			1.17
6.917	0.49	0.23	0.087	O	I			1.19
7.000	0.49	0.23	0.089	O	I			1.20
7.083	0.49	0.23	0.091	O	I			1.22
7.167	0.49	0.23	0.093	O	I			1.24
7.250	0.49	0.23	0.095	O	I			1.26
7.333	0.54	0.23	0.096	O	I			1.28
7.417	0.54	0.23	0.099	O	I			1.31
7.500	0.54	0.23	0.101	O	I			1.33
7.583	0.59	0.23	0.103	O	I			1.36
7.667	0.59	0.23	0.106	O	I			1.38
7.750	0.59	0.23	0.108	O	I			1.41
7.833	0.64	0.23	0.111	O	I			1.44
7.917	0.64	0.23	0.114	O	I			1.47
8.000	0.64	0.23	0.116	O	I			1.50
8.083	0.74	0.23	0.120	O	I			1.53
8.167	0.74	0.23	0.123	O	I			1.57
8.250	0.74	0.23	0.127	O	I			1.61
8.333	0.74	0.23	0.130	O	I			1.65
8.417	0.74	0.23	0.134	O	I			1.69
8.500	0.74	0.23	0.137	O	I			1.72
8.583	0.79	0.23	0.141	O	I			1.76
8.667	0.79	0.23	0.145	O	I			1.80
8.750	0.79	0.23	0.149	O	I			1.85
8.833	0.84	0.23	0.153	O	I			1.89
8.917	0.84	0.23	0.157	O	I			1.93

9.000	0.84	0.23	0.161	O		I			1.98
9.083	0.94	0.23	0.166	O		I			2.02
9.167	0.94	0.23	0.170	O		I			2.07
9.250	0.94	0.23	0.175	O		I			2.12
9.333	0.99	0.23	0.180	O		I			2.16
9.417	0.99	0.23	0.186	O		I			2.21
9.500	0.99	0.23	0.191	O		I			2.26
9.583	1.04	0.23	0.196	O		I			2.31
9.667	1.04	0.23	0.202	O		I			2.37
9.750	1.04	0.23	0.207	O		I			2.42
9.833	1.09	0.23	0.213	O		I			2.47
9.917	1.09	0.23	0.219	O		I			2.53
10.000	1.09	0.23	0.225	O		I			2.58
10.083	0.74	0.23	0.230	O	I				2.63
10.167	0.74	0.23	0.233	O	I				2.66
10.250	0.74	0.23	0.237	O	I				2.69
10.333	0.74	0.23	0.240	O	I				2.73
10.417	0.74	0.23	0.244	O	I				2.76
10.500	0.74	0.23	0.247	O	I				2.79
10.583	0.99	0.23	0.251	O		I			2.83
10.667	0.99	0.23	0.257	O		I			2.88
10.750	0.99	0.23	0.262	O		I			2.93
10.833	0.99	0.23	0.267	O		I			2.98
10.917	0.99	0.29	0.272	O		I			3.03
11.000	0.99	0.37	0.277	O		I			3.07
11.083	0.94	0.43	0.281	O		I			3.11
11.167	0.94	0.49	0.284	O		I			3.14
11.250	0.94	0.54	0.287	O		I			3.16
11.333	0.94	0.59	0.289	O		I			3.19
11.417	0.94	0.63	0.292	O		I			3.21
11.500	0.94	0.66	0.294	O		I			3.22
11.583	0.84	0.69	0.295	O	I				3.24
11.667	0.84	0.70	0.296	O	I				3.25
11.750	0.84	0.72	0.297	O	I				3.26
11.833	0.89	0.74	0.298	O	I				3.26
11.917	0.89	0.75	0.299	O	I				3.27
12.000	0.89	0.77	0.300	O	I				3.28
12.083	1.23	0.80	0.302	O		I			3.30
12.167	1.23	0.85	0.305	O		I			3.32
12.250	1.23	0.89	0.307	O		I			3.35
12.333	1.28	0.94	0.309	O		I			3.37
12.417	1.28	0.98	0.312	O		I			3.39
12.500	1.28	1.01	0.314	O		I			3.41
12.583	1.38	1.05	0.316	O		I			3.43
12.667	1.38	1.08	0.318	O		I			3.45
12.750	1.38	1.12	0.320	O		I			3.46
12.833	1.43	1.15	0.322	O		I			3.48
12.917	1.43	1.18	0.324	O		I			3.50
13.000	1.43	1.21	0.325	O		I			3.51
13.083	1.73	1.25	0.328	O				I	3.53
13.167	1.73	1.31	0.331	O				I	3.56
13.250	1.73	1.36	0.333	O				I	3.59
13.333	1.73	1.40	0.336	O				I	3.61
13.417	1.74	1.44	0.338	O				I	3.63
13.500	1.74	1.47	0.340	O				I	3.65
13.583	1.14	1.47	0.340	O		I			3.64
13.667	1.14	1.43	0.338	O		I			3.62
13.750	1.14	1.40	0.336	O		I			3.61
13.833	1.14	1.37	0.334	O		I			3.59
13.917	1.14	1.34	0.333	O		I			3.58

14.000	1.14	1.32	0.331	|	|	| I O |	|	3.57
14.083	1.33	1.31	0.331	|	|	| O |	|	3.56
14.167	1.33	1.31	0.331	|	|	| O |	|	3.56
14.250	1.33	1.31	0.331	|	|	| O |	|	3.56
14.333	1.28	1.31	0.331	|	|	| IO |	|	3.56
14.417	1.28	1.31	0.331	|	|	| IO |	|	3.56
14.500	1.28	1.31	0.331	|	|	| IO |	|	3.56
14.583	1.28	1.30	0.331	|	|	| IO |	|	3.56
14.667	1.28	1.30	0.330	|	|	| O|	|	3.56
14.750	1.28	1.30	0.330	|	|	| O|	|	3.56
14.833	1.23	1.29	0.330	|	|	| IO|	|	3.55
14.917	1.23	1.29	0.330	|	|	| IO|	|	3.55
15.000	1.23	1.28	0.329	|	|	| IO|	|	3.55
15.083	1.19	1.27	0.329	|	|	| I O|	|	3.54
15.167	1.19	1.26	0.328	|	|	| I O|	|	3.54
15.250	1.19	1.25	0.328	|	|	| I O|	|	3.53
15.333	1.14	1.24	0.327	|	|	| I O |	|	3.53
15.417	1.14	1.23	0.326	|	|	| I O |	|	3.52
15.500	1.14	1.22	0.326	|	|	| I O |	|	3.52
15.583	0.94	1.20	0.325	|	|	|I O |	|	3.51
15.667	0.94	1.17	0.323	|	|	|I O |	|	3.49
15.750	0.94	1.14	0.321	|	|	|I O |	|	3.48
15.833	0.94	1.12	0.320	|	|	|I O |	|	3.46
15.917	0.94	1.10	0.319	|	|	|I O |	|	3.45
16.000	0.94	1.08	0.318	|	|	|I O |	|	3.44
16.083	0.20	1.02	0.314	| I |	|	| O |	|	3.41
16.167	0.20	0.93	0.309	| I |	|	|O |	|	3.36
16.250	0.20	0.85	0.304	| I |	| O|	|	|	3.32
16.333	0.20	0.77	0.300	| I |	| O |	|	|	3.28
16.417	0.20	0.71	0.296	| I |	| O |	|	|	3.25
16.500	0.20	0.65	0.293	| I |	| O |	|	|	3.22
16.583	0.15	0.60	0.290	| I |	| O |	|	|	3.19
16.667	0.15	0.55	0.287	| I |	| O |	|	|	3.16
16.750	0.15	0.50	0.284	| I |	|O |	|	|	3.14
16.833	0.15	0.46	0.282	| I |	O |	|	|	3.12
16.917	0.15	0.42	0.280	| I |	O|	|	|	3.10
17.000	0.15	0.39	0.278	| I |	O|	|	|	3.09
17.083	0.25	0.37	0.277	| I O |	|	|	|	3.07
17.167	0.25	0.36	0.276	| I O |	|	|	|	3.07
17.250	0.25	0.34	0.276	| I O |	|	|	|	3.06
17.333	0.25	0.33	0.275	| I O |	|	|	|	3.05
17.417	0.25	0.32	0.274	| IO |	|	|	|	3.05
17.500	0.25	0.31	0.274	| IO |	|	|	|	3.04
17.583	0.25	0.31	0.273	| IO |	|	|	|	3.04
17.667	0.25	0.30	0.273	| IO |	|	|	|	3.04
17.750	0.25	0.29	0.273	| IO |	|	|	|	3.03
17.833	0.20	0.29	0.272	| I O |	|	|	|	3.03
17.917	0.20	0.28	0.272	| I O |	|	|	|	3.02
18.000	0.20	0.27	0.271	| IO |	|	|	|	3.02
18.083	0.20	0.26	0.271	| IO |	|	|	|	3.02
18.167	0.20	0.25	0.270	| IO |	|	|	|	3.01
18.250	0.20	0.25	0.270	| IO |	|	|	|	3.01
18.333	0.20	0.24	0.270	| IO |	|	|	|	3.01
18.417	0.20	0.24	0.269	| IO |	|	|	|	3.00
18.500	0.20	0.23	0.269	| IO |	|	|	|	3.00
18.583	0.15	0.23	0.269	| I O |	|	|	|	3.00
18.667	0.15	0.23	0.268	| I O |	|	|	|	2.99
18.750	0.15	0.23	0.268	| I O |	|	|	|	2.99
18.833	0.10	0.23	0.267	|I O |	|	|	|	2.98
18.917	0.10	0.23	0.266	|I O |	|	|	|	2.97

19.000	0.10	0.23	0.265	I O				2.96
19.083	0.15	0.23	0.264	I O				2.96
19.167	0.15	0.23	0.264	I O				2.95
19.250	0.15	0.23	0.263	I O				2.94
19.333	0.20	0.23	0.263	IO				2.94
19.417	0.20	0.23	0.263	IO				2.94
19.500	0.20	0.23	0.262	IO				2.94
19.583	0.15	0.23	0.262	I O				2.93
19.667	0.15	0.23	0.261	I O				2.93
19.750	0.15	0.23	0.261	I O				2.92
19.833	0.10	0.23	0.260	I O				2.92
19.917	0.10	0.23	0.259	I O				2.91
20.000	0.10	0.23	0.258	I O				2.90
20.083	0.15	0.23	0.258	I O				2.89
20.167	0.15	0.23	0.257	I O				2.89
20.250	0.15	0.23	0.256	I O				2.88
20.333	0.15	0.23	0.256	I O				2.88
20.417	0.15	0.23	0.255	I O				2.87
20.500	0.15	0.23	0.255	I O				2.86
20.583	0.15	0.23	0.254	I O				2.86
20.667	0.15	0.23	0.254	I O				2.85
20.750	0.15	0.23	0.253	I O				2.85
20.833	0.10	0.23	0.252	I O				2.84
20.917	0.10	0.23	0.251	I O				2.83
21.000	0.10	0.23	0.250	I O				2.83
21.083	0.15	0.23	0.250	I O				2.82
21.167	0.15	0.23	0.249	I O				2.81
21.250	0.15	0.23	0.249	I O				2.81
21.333	0.10	0.23	0.248	I O				2.80
21.417	0.10	0.23	0.247	I O				2.79
21.500	0.10	0.23	0.246	I O				2.78
21.583	0.15	0.23	0.245	I O				2.78
21.667	0.15	0.23	0.245	I O				2.77
21.750	0.15	0.23	0.244	I O				2.77
21.833	0.10	0.23	0.243	I O				2.76
21.917	0.10	0.23	0.243	I O				2.75
22.000	0.10	0.23	0.242	I O				2.74
22.083	0.15	0.23	0.241	I O				2.74
22.167	0.15	0.23	0.240	I O				2.73
22.250	0.15	0.23	0.240	I O				2.72
22.333	0.10	0.23	0.239	I O				2.72
22.417	0.10	0.23	0.238	I O				2.71
22.500	0.10	0.23	0.237	I O				2.70
22.583	0.10	0.23	0.236	I O				2.69
22.667	0.10	0.23	0.235	I O				2.68
22.750	0.10	0.23	0.235	I O				2.67
22.833	0.10	0.23	0.234	I O				2.67
22.917	0.10	0.23	0.233	I O				2.66
23.000	0.10	0.23	0.232	I O				2.65
23.083	0.10	0.23	0.231	I O				2.64
23.167	0.10	0.23	0.230	I O				2.63
23.250	0.10	0.23	0.229	I O				2.62
23.333	0.10	0.23	0.228	I O				2.62
23.417	0.10	0.23	0.227	I O				2.61
23.500	0.10	0.23	0.226	I O				2.60
23.583	0.10	0.23	0.225	I O				2.59
23.667	0.10	0.23	0.225	I O				2.58
23.750	0.10	0.23	0.224	I O				2.57
23.833	0.10	0.23	0.223	I O				2.56
23.917	0.10	0.23	0.222	I O				2.56

24.000	0.10	0.23	0.221	|I	O	|	|	|	2.55
24.083	0.00	0.23	0.220	I	O	|	|	|	2.54
24.167	0.00	0.23	0.218	I	O	|	|	|	2.52
24.250	0.00	0.23	0.217	I	O	|	|	|	2.51
24.333	0.00	0.23	0.215	I	O	|	|	|	2.49
24.417	0.00	0.23	0.213	I	O	|	|	|	2.48
24.500	0.00	0.23	0.212	I	O	|	|	|	2.46
24.583	0.00	0.23	0.210	I	O	|	|	|	2.45
24.667	0.00	0.23	0.209	I	O	|	|	|	2.43
24.750	0.00	0.23	0.207	I	O	|	|	|	2.42
24.833	0.00	0.23	0.205	I	O	|	|	|	2.40
24.917	0.00	0.23	0.204	I	O	|	|	|	2.39
25.000	0.00	0.23	0.202	I	O	|	|	|	2.37
25.083	0.00	0.23	0.201	I	O	|	|	|	2.36
25.167	0.00	0.23	0.199	I	O	|	|	|	2.34
25.250	0.00	0.23	0.198	I	O	|	|	|	2.33
25.333	0.00	0.23	0.196	I	O	|	|	|	2.31
25.417	0.00	0.23	0.194	I	O	|	|	|	2.30
25.500	0.00	0.23	0.193	I	O	|	|	|	2.28
25.583	0.00	0.23	0.191	I	O	|	|	|	2.27
25.667	0.00	0.23	0.190	I	O	|	|	|	2.25
25.750	0.00	0.23	0.188	I	O	|	|	|	2.24
25.833	0.00	0.23	0.186	I	O	|	|	|	2.22
25.917	0.00	0.23	0.185	I	O	|	|	|	2.21
26.000	0.00	0.23	0.183	I	O	|	|	|	2.19
26.083	0.00	0.23	0.182	I	O	|	|	|	2.18
26.167	0.00	0.23	0.180	I	O	|	|	|	2.16
26.250	0.00	0.23	0.179	I	O	|	|	|	2.15
26.333	0.00	0.23	0.177	I	O	|	|	|	2.13
26.417	0.00	0.23	0.175	I	O	|	|	|	2.12
26.500	0.00	0.23	0.174	I	O	|	|	|	2.10
26.583	0.00	0.23	0.172	I	O	|	|	|	2.09
26.667	0.00	0.23	0.171	I	O	|	|	|	2.07
26.750	0.00	0.23	0.169	I	O	|	|	|	2.06
26.833	0.00	0.23	0.167	I	O	|	|	|	2.04
26.917	0.00	0.23	0.166	I	O	|	|	|	2.03
27.000	0.00	0.23	0.164	I	O	|	|	|	2.01
27.083	0.00	0.23	0.163	I	O	|	|	|	2.00
27.167	0.00	0.23	0.161	I	O	|	|	|	1.98
27.250	0.00	0.23	0.160	I	O	|	|	|	1.96
27.333	0.00	0.23	0.158	I	O	|	|	|	1.95
27.417	0.00	0.23	0.156	I	O	|	|	|	1.93
27.500	0.00	0.23	0.155	I	O	|	|	|	1.91
27.583	0.00	0.23	0.153	I	O	|	|	|	1.89
27.667	0.00	0.23	0.152	I	O	|	|	|	1.88
27.750	0.00	0.23	0.150	I	O	|	|	|	1.86
27.833	0.00	0.23	0.148	I	O	|	|	|	1.84
27.917	0.00	0.23	0.147	I	O	|	|	|	1.83
28.000	0.00	0.23	0.145	I	O	|	|	|	1.81
28.083	0.00	0.23	0.144	I	O	|	|	|	1.79
28.167	0.00	0.23	0.142	I	O	|	|	|	1.78
28.250	0.00	0.23	0.141	I	O	|	|	|	1.76
28.333	0.00	0.23	0.139	I	O	|	|	|	1.74
28.417	0.00	0.23	0.137	I	O	|	|	|	1.72
28.500	0.00	0.23	0.136	I	O	|	|	|	1.71
28.583	0.00	0.23	0.134	I	O	|	|	|	1.69
28.667	0.00	0.23	0.133	I	O	|	|	|	1.67
28.750	0.00	0.23	0.131	I	O	|	|	|	1.66
28.833	0.00	0.23	0.129	I	O	|	|	|	1.64
28.917	0.00	0.23	0.128	I	O	|	|	|	1.62

29.000	0.00	0.23	0.126	I	O	|	|	|	1.61
29.083	0.00	0.23	0.125	I	O	|	|	|	1.59
29.167	0.00	0.23	0.123	I	O	|	|	|	1.57
29.250	0.00	0.23	0.122	I	O	|	|	|	1.55
29.333	0.00	0.23	0.120	I	O	|	|	|	1.54
29.417	0.00	0.23	0.118	I	O	|	|	|	1.52
29.500	0.00	0.23	0.117	I	O	|	|	|	1.50
29.583	0.00	0.23	0.115	I	O	|	|	|	1.49
29.667	0.00	0.23	0.114	I	O	|	|	|	1.47
29.750	0.00	0.23	0.112	I	O	|	|	|	1.45
29.833	0.00	0.23	0.110	I	O	|	|	|	1.43
29.917	0.00	0.23	0.109	I	O	|	|	|	1.42
30.000	0.00	0.23	0.107	I	O	|	|	|	1.40
30.083	0.00	0.23	0.106	I	O	|	|	|	1.38
30.167	0.00	0.23	0.104	I	O	|	|	|	1.37
30.250	0.00	0.23	0.103	I	O	|	|	|	1.35
30.333	0.00	0.23	0.101	I	O	|	|	|	1.33
30.417	0.00	0.23	0.099	I	O	|	|	|	1.32
30.500	0.00	0.23	0.098	I	O	|	|	|	1.30
30.583	0.00	0.23	0.096	I	O	|	|	|	1.28
30.667	0.00	0.23	0.095	I	O	|	|	|	1.26
30.750	0.00	0.23	0.093	I	O	|	|	|	1.25
30.833	0.00	0.23	0.091	I	O	|	|	|	1.23
30.917	0.00	0.23	0.090	I	O	|	|	|	1.21
31.000	0.00	0.23	0.088	I	O	|	|	|	1.20
31.083	0.00	0.23	0.087	I	O	|	|	|	1.18
31.167	0.00	0.23	0.085	I	O	|	|	|	1.16
31.250	0.00	0.23	0.084	I	O	|	|	|	1.15
31.333	0.00	0.23	0.082	I	O	|	|	|	1.13
31.417	0.00	0.23	0.080	I	O	|	|	|	1.11
31.500	0.00	0.23	0.079	I	O	|	|	|	1.09
31.583	0.00	0.23	0.077	I	O	|	|	|	1.08
31.667	0.00	0.23	0.076	I	O	|	|	|	1.06
31.750	0.00	0.23	0.074	I	O	|	|	|	1.04
31.833	0.00	0.23	0.072	I	O	|	|	|	1.03
31.917	0.00	0.23	0.071	I	O	|	|	|	1.01
32.000	0.00	0.23	0.069	I	O	|	|	|	0.99
32.083	0.00	0.22	0.068	I	O	|	|	|	0.97
32.167	0.00	0.22	0.066	I	O	|	|	|	0.95
32.250	0.00	0.21	0.065	I	O	|	|	|	0.92
32.333	0.00	0.21	0.063	I	O	|	|	|	0.90
32.417	0.00	0.20	0.062	I	O	|	|	|	0.88
32.500	0.00	0.20	0.060	I	O	|	|	|	0.86
32.583	0.00	0.19	0.059	I	O	|	|	|	0.84
32.667	0.00	0.19	0.058	I	O	|	|	|	0.83
32.750	0.00	0.19	0.056	I	O	|	|	|	0.81
32.833	0.00	0.18	0.055	I	O	|	|	|	0.79
32.917	0.00	0.18	0.054	I	O	|	|	|	0.77
33.000	0.00	0.17	0.053	I	O	|	|	|	0.75
33.083	0.00	0.17	0.052	I	O	|	|	|	0.74
33.167	0.00	0.17	0.050	I	O	|	|	|	0.72
33.250	0.00	0.16	0.049	I	O	|	|	|	0.70
33.333	0.00	0.16	0.048	I	O	|	|	|	0.69
33.417	0.00	0.15	0.047	I	O	|	|	|	0.67
33.500	0.00	0.15	0.046	I	O	|	|	|	0.66
33.583	0.00	0.15	0.045	I	O	|	|	|	0.64
33.667	0.00	0.14	0.044	I	O	|	|	|	0.63
33.750	0.00	0.14	0.043	I	O	|	|	|	0.62
33.833	0.00	0.14	0.042	I	O	|	|	|	0.60
33.917	0.00	0.14	0.041	I	O	|	|	|	0.59

34.000	0.00	0.13	0.040	I O	|	|	|	0.57
34.083	0.00	0.13	0.039	I O	|	|	|	0.56
34.167	0.00	0.13	0.038	I O	|	|	|	0.55
34.250	0.00	0.12	0.038	I O	|	|	|	0.54
34.333	0.00	0.12	0.037	I O	|	|	|	0.53
34.417	0.00	0.12	0.036	I O	|	|	|	0.51
34.500	0.00	0.12	0.035	I O	|	|	|	0.50
34.583	0.00	0.11	0.034	I O	|	|	|	0.49
34.667	0.00	0.11	0.034	I O	|	|	|	0.48
34.750	0.00	0.11	0.033	IO	|	|	|	0.47
34.833	0.00	0.11	0.032	IO	|	|	|	0.46
34.917	0.00	0.10	0.031	IO	|	|	|	0.45
35.000	0.00	0.10	0.031	IO	|	|	|	0.44
35.083	0.00	0.10	0.030	IO	|	|	|	0.43
35.167	0.00	0.10	0.029	IO	|	|	|	0.42
35.250	0.00	0.09	0.029	IO	|	|	|	0.41
35.333	0.00	0.09	0.028	IO	|	|	|	0.40
35.417	0.00	0.09	0.027	IO	|	|	|	0.39
35.500	0.00	0.09	0.027	IO	|	|	|	0.38
35.583	0.00	0.09	0.026	IO	|	|	|	0.37
35.667	0.00	0.08	0.026	IO	|	|	|	0.37
35.750	0.00	0.08	0.025	IO	|	|	|	0.36
35.833	0.00	0.08	0.024	IO	|	|	|	0.35
35.917	0.00	0.08	0.024	IO	|	|	|	0.34
36.000	0.00	0.08	0.023	IO	|	|	|	0.33
36.083	0.00	0.08	0.023	IO	|	|	|	0.33
36.167	0.00	0.07	0.022	IO	|	|	|	0.32
36.250	0.00	0.07	0.022	IO	|	|	|	0.31
36.333	0.00	0.07	0.021	IO	|	|	|	0.31
36.417	0.00	0.07	0.021	IO	|	|	|	0.30
36.500	0.00	0.07	0.020	IO	|	|	|	0.29
36.583	0.00	0.07	0.020	IO	|	|	|	0.28
36.667	0.00	0.06	0.020	IO	|	|	|	0.28
36.750	0.00	0.06	0.019	IO	|	|	|	0.27
36.833	0.00	0.06	0.019	IO	|	|	|	0.27
36.917	0.00	0.06	0.018	IO	|	|	|	0.26
37.000	0.00	0.06	0.018	IO	|	|	|	0.25
37.083	0.00	0.06	0.017	IO	|	|	|	0.25
37.167	0.00	0.06	0.017	IO	|	|	|	0.24
37.250	0.00	0.05	0.017	IO	|	|	|	0.24
37.333	0.00	0.05	0.016	O	|	|	|	0.23
37.417	0.00	0.05	0.016	O	|	|	|	0.23
37.500	0.00	0.05	0.016	O	|	|	|	0.22
37.583	0.00	0.05	0.015	O	|	|	|	0.22
37.667	0.00	0.05	0.015	O	|	|	|	0.21
37.750	0.00	0.05	0.015	O	|	|	|	0.21
37.833	0.00	0.05	0.014	O	|	|	|	0.20
37.917	0.00	0.05	0.014	O	|	|	|	0.20
38.000	0.00	0.04	0.014	O	|	|	|	0.19
38.083	0.00	0.04	0.013	O	|	|	|	0.19
38.167	0.00	0.04	0.013	O	|	|	|	0.19
38.250	0.00	0.04	0.013	O	|	|	|	0.18
38.333	0.00	0.04	0.012	O	|	|	|	0.18
38.417	0.00	0.04	0.012	O	|	|	|	0.17
38.500	0.00	0.04	0.012	O	|	|	|	0.17
38.583	0.00	0.04	0.012	O	|	|	|	0.17
38.667	0.00	0.04	0.011	O	|	|	|	0.16
38.750	0.00	0.04	0.011	O	|	|	|	0.16
38.833	0.00	0.04	0.011	O	|	|	|	0.15
38.917	0.00	0.03	0.011	O	|	|	|	0.15

39.000	0.00	0.03	0.010	O	|	|	|	0.15
39.083	0.00	0.03	0.010	O	|	|	|	0.14
39.167	0.00	0.03	0.010	O	|	|	|	0.14
39.250	0.00	0.03	0.010	O	|	|	|	0.14
39.333	0.00	0.03	0.009	O	|	|	|	0.14
39.417	0.00	0.03	0.009	O	|	|	|	0.13
39.500	0.00	0.03	0.009	O	|	|	|	0.13
39.583	0.00	0.03	0.009	O	|	|	|	0.13
39.667	0.00	0.03	0.009	O	|	|	|	0.12
39.750	0.00	0.03	0.008	O	|	|	|	0.12
39.833	0.00	0.03	0.008	O	|	|	|	0.12
39.917	0.00	0.03	0.008	O	|	|	|	0.12
40.000	0.00	0.03	0.008	O	|	|	|	0.11
40.083	0.00	0.03	0.008	O	|	|	|	0.11
40.167	0.00	0.02	0.008	O	|	|	|	0.11
40.250	0.00	0.02	0.007	O	|	|	|	0.11
40.333	0.00	0.02	0.007	O	|	|	|	0.10
40.417	0.00	0.02	0.007	O	|	|	|	0.10
40.500	0.00	0.02	0.007	O	|	|	|	0.10
40.583	0.00	0.02	0.007	O	|	|	|	0.10
40.667	0.00	0.02	0.007	O	|	|	|	0.09
40.750	0.00	0.02	0.006	O	|	|	|	0.09
40.833	0.00	0.02	0.006	O	|	|	|	0.09
40.917	0.00	0.02	0.006	O	|	|	|	0.09
41.000	0.00	0.02	0.006	O	|	|	|	0.09
41.083	0.00	0.02	0.006	O	|	|	|	0.08
41.167	0.00	0.02	0.006	O	|	|	|	0.08
41.250	0.00	0.02	0.006	O	|	|	|	0.08
41.333	0.00	0.02	0.005	O	|	|	|	0.08
41.417	0.00	0.02	0.005	O	|	|	|	0.08
41.500	0.00	0.02	0.005	O	|	|	|	0.07
41.583	0.00	0.02	0.005	O	|	|	|	0.07
41.667	0.00	0.02	0.005	O	|	|	|	0.07
41.750	0.00	0.02	0.005	O	|	|	|	0.07
41.833	0.00	0.02	0.005	O	|	|	|	0.07
41.917	0.00	0.02	0.005	O	|	|	|	0.07
42.000	0.00	0.02	0.005	O	|	|	|	0.07
42.083	0.00	0.01	0.004	O	|	|	|	0.06
42.167	0.00	0.01	0.004	O	|	|	|	0.06
42.250	0.00	0.01	0.004	O	|	|	|	0.06
42.333	0.00	0.01	0.004	O	|	|	|	0.06
42.417	0.00	0.01	0.004	O	|	|	|	0.06
42.500	0.00	0.01	0.004	O	|	|	|	0.06
42.583	0.00	0.01	0.004	O	|	|	|	0.06
42.667	0.00	0.01	0.004	O	|	|	|	0.05
42.750	0.00	0.01	0.004	O	|	|	|	0.05
42.833	0.00	0.01	0.004	O	|	|	|	0.05
42.917	0.00	0.01	0.004	O	|	|	|	0.05
43.000	0.00	0.01	0.003	O	|	|	|	0.05
43.083	0.00	0.01	0.003	O	|	|	|	0.05
43.167	0.00	0.01	0.003	O	|	|	|	0.05
43.250	0.00	0.01	0.003	O	|	|	|	0.05
43.333	0.00	0.01	0.003	O	|	|	|	0.05
43.417	0.00	0.01	0.003	O	|	|	|	0.04
43.500	0.00	0.01	0.003	O	|	|	|	0.04
43.583	0.00	0.01	0.003	O	|	|	|	0.04
43.667	0.00	0.01	0.003	O	|	|	|	0.04
43.750	0.00	0.01	0.003	O	|	|	|	0.04
43.833	0.00	0.01	0.003	O	|	|	|	0.04
43.917	0.00	0.01	0.003	O	|	|	|	0.04

44.000	0.00	0.01	0.003	O	|	|	|	0.04
44.083	0.00	0.01	0.003	O	|	|	|	0.04
44.167	0.00	0.01	0.003	O	|	|	|	0.04
44.250	0.00	0.01	0.002	O	|	|	|	0.04
44.333	0.00	0.01	0.002	O	|	|	|	0.03
44.417	0.00	0.01	0.002	O	|	|	|	0.03
44.500	0.00	0.01	0.002	O	|	|	|	0.03
44.583	0.00	0.01	0.002	O	|	|	|	0.03
44.667	0.00	0.01	0.002	O	|	|	|	0.03
44.750	0.00	0.01	0.002	O	|	|	|	0.03
44.833	0.00	0.01	0.002	O	|	|	|	0.03
44.917	0.00	0.01	0.002	O	|	|	|	0.03
45.000	0.00	0.01	0.002	O	|	|	|	0.03
45.083	0.00	0.01	0.002	O	|	|	|	0.03
45.167	0.00	0.01	0.002	O	|	|	|	0.03
45.250	0.00	0.01	0.002	O	|	|	|	0.03
45.333	0.00	0.01	0.002	O	|	|	|	0.03
45.417	0.00	0.01	0.002	O	|	|	|	0.03
45.500	0.00	0.01	0.002	O	|	|	|	0.03
45.583	0.00	0.01	0.002	O	|	|	|	0.02
45.667	0.00	0.01	0.002	O	|	|	|	0.02
45.750	0.00	0.01	0.002	O	|	|	|	0.02
45.833	0.00	0.01	0.002	O	|	|	|	0.02
45.917	0.00	0.01	0.002	O	|	|	|	0.02
46.000	0.00	0.01	0.002	O	|	|	|	0.02
46.083	0.00	0.00	0.002	O	|	|	|	0.02
46.167	0.00	0.00	0.001	O	|	|	|	0.02
46.250	0.00	0.00	0.001	O	|	|	|	0.02
46.333	0.00	0.00	0.001	O	|	|	|	0.02
46.417	0.00	0.00	0.001	O	|	|	|	0.02
46.500	0.00	0.00	0.001	O	|	|	|	0.02
46.583	0.00	0.00	0.001	O	|	|	|	0.02
46.667	0.00	0.00	0.001	O	|	|	|	0.02
46.750	0.00	0.00	0.001	O	|	|	|	0.02
46.833	0.00	0.00	0.001	O	|	|	|	0.02
46.917	0.00	0.00	0.001	O	|	|	|	0.02
47.000	0.00	0.00	0.001	O	|	|	|	0.02
47.083	0.00	0.00	0.001	O	|	|	|	0.02
47.167	0.00	0.00	0.001	O	|	|	|	0.02
47.250	0.00	0.00	0.001	O	|	|	|	0.02
47.333	0.00	0.00	0.001	O	|	|	|	0.02
47.417	0.00	0.00	0.001	O	|	|	|	0.02
47.500	0.00	0.00	0.001	O	|	|	|	0.01
47.583	0.00	0.00	0.001	O	|	|	|	0.01
47.667	0.00	0.00	0.001	O	|	|	|	0.01
47.750	0.00	0.00	0.001	O	|	|	|	0.01
47.833	0.00	0.00	0.001	O	|	|	|	0.01
47.917	0.00	0.00	0.001	O	|	|	|	0.01
48.000	0.00	0.00	0.001	O	|	|	|	0.01
48.083	0.00	0.00	0.001	O	|	|	|	0.01
48.167	0.00	0.00	0.001	O	|	|	|	0.01
48.250	0.00	0.00	0.001	O	|	|	|	0.01
48.333	0.00	0.00	0.001	O	|	|	|	0.01
48.417	0.00	0.00	0.001	O	|	|	|	0.01
48.500	0.00	0.00	0.001	O	|	|	|	0.01
48.583	0.00	0.00	0.001	O	|	|	|	0.01
48.667	0.00	0.00	0.001	O	|	|	|	0.01
48.750	0.00	0.00	0.001	O	|	|	|	0.01
48.833	0.00	0.00	0.001	O	|	|	|	0.01
48.917	0.00	0.00	0.001	O	|	|	|	0.01

49.000	0.00	0.00	0.001	O	|	|	|	|	0.01
49.083	0.00	0.00	0.001	O	|	|	|	|	0.01
49.167	0.00	0.00	0.001	O	|	|	|	|	0.01
49.250	0.00	0.00	0.001	O	|	|	|	|	0.01
49.333	0.00	0.00	0.001	O	|	|	|	|	0.01
49.417	0.00	0.00	0.001	O	|	|	|	|	0.01
49.500	0.00	0.00	0.001	O	|	|	|	|	0.01
49.583	0.00	0.00	0.001	O	|	|	|	|	0.01
49.667	0.00	0.00	0.001	O	|	|	|	|	0.01
49.750	0.00	0.00	0.001	O	|	|	|	|	0.01
49.833	0.00	0.00	0.001	O	|	|	|	|	0.01
49.917	0.00	0.00	0.001	O	|	|	|	|	0.01
50.000	0.00	0.00	0.001	O	|	|	|	|	0.01
50.083	0.00	0.00	0.001	O	|	|	|	|	0.01
50.167	0.00	0.00	0.000	O	|	|	|	|	0.01
50.250	0.00	0.00	0.000	O	|	|	|	|	0.01
50.333	0.00	0.00	0.000	O	|	|	|	|	0.01
50.417	0.00	0.00	0.000	O	|	|	|	|	0.01
50.500	0.00	0.00	0.000	O	|	|	|	|	0.01
50.583	0.00	0.00	0.000	O	|	|	|	|	0.01
50.667	0.00	0.00	0.000	O	|	|	|	|	0.01
50.750	0.00	0.00	0.000	O	|	|	|	|	0.01
50.833	0.00	0.00	0.000	O	|	|	|	|	0.01
50.917	0.00	0.00	0.000	O	|	|	|	|	0.01
51.000	0.00	0.00	0.000	O	|	|	|	|	0.01
51.083	0.00	0.00	0.000	O	|	|	|	|	0.01
51.167	0.00	0.00	0.000	O	|	|	|	|	0.01
51.250	0.00	0.00	0.000	O	|	|	|	|	0.01
51.333	0.00	0.00	0.000	O	|	|	|	|	0.01
51.417	0.00	0.00	0.000	O	|	|	|	|	0.01
51.500	0.00	0.00	0.000	O	|	|	|	|	0.00
51.583	0.00	0.00	0.000	O	|	|	|	|	0.00
51.667	0.00	0.00	0.000	O	|	|	|	|	0.00
51.750	0.00	0.00	0.000	O	|	|	|	|	0.00
51.833	0.00	0.00	0.000	O	|	|	|	|	0.00
51.917	0.00	0.00	0.000	O	|	|	|	|	0.00
52.000	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 624
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.471 (CFS)
Total volume = 1.022 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
100-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 12
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 24.520 (CFS)
Total volume = 0.547 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 12
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 6.1 12.26 18.39 24.52	Depth (Ft.)
0.083	2.49	0.03	0.008	O I	0.12
0.167	3.58	0.10	0.029	O I	0.41
0.250	3.58	0.17	0.053	O I	0.75
0.333	3.91	0.23	0.077	O I	1.08
0.417	4.50	0.23	0.104	O I	1.37
0.500	4.58	0.23	0.134	O I	1.69
0.583	5.59	0.23	0.168	O I	2.04
0.667	6.93	0.23	0.209	O I	2.43
0.750	10.70	0.23	0.268	O I	2.99
0.833	24.52	2.17	0.381	O I	4.02
0.917	6.09	2.92	0.469	O I	4.84
1.000	2.99	3.02	0.480	O	4.94
1.083	0.00	2.93	0.470	I O	4.85
1.167	0.00	2.76	0.450	I O	4.66
1.250	0.00	2.60	0.432	I O	4.49
1.333	0.00	2.45	0.414	I O	4.33
1.417	0.00	2.31	0.398	I O	4.18
1.500	0.00	2.18	0.382	I O	4.03
1.583	0.00	1.96	0.368	I O	3.90
1.667	0.00	1.74	0.355	I O	3.78
1.750	0.00	1.54	0.344	I O	3.68
1.833	0.00	1.37	0.334	IO	3.59
1.917	0.00	1.21	0.325	IO	3.51
2.000	0.00	1.07	0.317	IO	3.44
2.083	0.00	0.95	0.310	IO	3.38
2.167	0.00	0.84	0.304	IO	3.32
2.250	0.00	0.75	0.299	O	3.27
2.333	0.00	0.66	0.294	O	3.23
2.417	0.00	0.59	0.290	O	3.19
2.500	0.00	0.52	0.286	O	3.15
2.583	0.00	0.46	0.282	O	3.12
2.667	0.00	0.41	0.279	O	3.09
2.750	0.00	0.36	0.277	O	3.07
2.833	0.00	0.32	0.274	O	3.05
2.917	0.00	0.29	0.272	O	3.03
3.000	0.00	0.25	0.270	O	3.01
3.083	0.00	0.23	0.269	O	3.00
3.167	0.00	0.23	0.267	O	2.98
3.250	0.00	0.23	0.265	O	2.97
3.333	0.00	0.23	0.264	O	2.95
3.417	0.00	0.23	0.262	O	2.94
3.500	0.00	0.23	0.261	O	2.92
3.583	0.00	0.23	0.259	O	2.91
3.667	0.00	0.23	0.258	O	2.89
3.750	0.00	0.23	0.256	O	2.88
3.833	0.00	0.23	0.254	O	2.86
3.917	0.00	0.23	0.253	O	2.85

4.000	0.00	0.23	0.251	O	|	|	|	2.83
4.083	0.00	0.23	0.250	O	|	|	|	2.82
4.167	0.00	0.23	0.248	O	|	|	|	2.80
4.250	0.00	0.23	0.246	O	|	|	|	2.79
4.333	0.00	0.23	0.245	O	|	|	|	2.77
4.417	0.00	0.23	0.243	O	|	|	|	2.76
4.500	0.00	0.23	0.242	O	|	|	|	2.74
4.583	0.00	0.23	0.240	O	|	|	|	2.73
4.667	0.00	0.23	0.239	O	|	|	|	2.71
4.750	0.00	0.23	0.237	O	|	|	|	2.70
4.833	0.00	0.23	0.235	O	|	|	|	2.68
4.917	0.00	0.23	0.234	O	|	|	|	2.67
5.000	0.00	0.23	0.232	O	|	|	|	2.65
5.083	0.00	0.23	0.231	O	|	|	|	2.64
5.167	0.00	0.23	0.229	O	|	|	|	2.62
5.250	0.00	0.23	0.227	O	|	|	|	2.61
5.333	0.00	0.23	0.226	O	|	|	|	2.59
5.417	0.00	0.23	0.224	O	|	|	|	2.58
5.500	0.00	0.23	0.223	O	|	|	|	2.56
5.583	0.00	0.23	0.221	O	|	|	|	2.55
5.667	0.00	0.23	0.220	O	|	|	|	2.53
5.750	0.00	0.23	0.218	O	|	|	|	2.52
5.833	0.00	0.23	0.216	O	|	|	|	2.50
5.917	0.00	0.23	0.215	O	|	|	|	2.49
6.000	0.00	0.23	0.213	O	|	|	|	2.47
6.083	0.00	0.23	0.212	O	|	|	|	2.46
6.167	0.00	0.23	0.210	O	|	|	|	2.44
6.250	0.00	0.23	0.208	O	|	|	|	2.43
6.333	0.00	0.23	0.207	O	|	|	|	2.41
6.417	0.00	0.23	0.205	O	|	|	|	2.40
6.500	0.00	0.23	0.204	O	|	|	|	2.38
6.583	0.00	0.23	0.202	O	|	|	|	2.37
6.667	0.00	0.23	0.201	O	|	|	|	2.35
6.750	0.00	0.23	0.199	O	|	|	|	2.34
6.833	0.00	0.23	0.197	O	|	|	|	2.32
6.917	0.00	0.23	0.196	O	|	|	|	2.31
7.000	0.00	0.23	0.194	O	|	|	|	2.29
7.083	0.00	0.23	0.193	O	|	|	|	2.28
7.167	0.00	0.23	0.191	O	|	|	|	2.26
7.250	0.00	0.23	0.189	O	|	|	|	2.25
7.333	0.00	0.23	0.188	O	|	|	|	2.23
7.417	0.00	0.23	0.186	O	|	|	|	2.22
7.500	0.00	0.23	0.185	O	|	|	|	2.20
7.583	0.00	0.23	0.183	O	|	|	|	2.19
7.667	0.00	0.23	0.182	O	|	|	|	2.17
7.750	0.00	0.23	0.180	O	|	|	|	2.16
7.833	0.00	0.23	0.178	O	|	|	|	2.15
7.917	0.00	0.23	0.177	O	|	|	|	2.13
8.000	0.00	0.23	0.175	O	|	|	|	2.12
8.083	0.00	0.23	0.174	O	|	|	|	2.10
8.167	0.00	0.23	0.172	O	|	|	|	2.09
8.250	0.00	0.23	0.170	O	|	|	|	2.07
8.333	0.00	0.23	0.169	O	|	|	|	2.06
8.417	0.00	0.23	0.167	O	|	|	|	2.04
8.500	0.00	0.23	0.166	O	|	|	|	2.03
8.583	0.00	0.23	0.164	O	|	|	|	2.01
8.667	0.00	0.23	0.163	O	|	|	|	2.00
8.750	0.00	0.23	0.161	O	|	|	|	1.98
8.833	0.00	0.23	0.159	O	|	|	|	1.96
8.917	0.00	0.23	0.158	O	|	|	|	1.94

9.000	0.00	0.23	0.156	O	|	|	|	1.93
9.083	0.00	0.23	0.155	O	|	|	|	1.91
9.167	0.00	0.23	0.153	O	|	|	|	1.89
9.250	0.00	0.23	0.151	O	|	|	|	1.88
9.333	0.00	0.23	0.150	O	|	|	|	1.86
9.417	0.00	0.23	0.148	O	|	|	|	1.84
9.500	0.00	0.23	0.147	O	|	|	|	1.82
9.583	0.00	0.23	0.145	O	|	|	|	1.81
9.667	0.00	0.23	0.144	O	|	|	|	1.79
9.750	0.00	0.23	0.142	O	|	|	|	1.77
9.833	0.00	0.23	0.140	O	|	|	|	1.76
9.917	0.00	0.23	0.139	O	|	|	|	1.74
10.000	0.00	0.23	0.137	O	|	|	|	1.72
10.083	0.00	0.23	0.136	O	|	|	|	1.71
10.167	0.00	0.23	0.134	O	|	|	|	1.69
10.250	0.00	0.23	0.132	O	|	|	|	1.67
10.333	0.00	0.23	0.131	O	|	|	|	1.65
10.417	0.00	0.23	0.129	O	|	|	|	1.64
10.500	0.00	0.23	0.128	O	|	|	|	1.62
10.583	0.00	0.23	0.126	O	|	|	|	1.60
10.667	0.00	0.23	0.125	O	|	|	|	1.59
10.750	0.00	0.23	0.123	O	|	|	|	1.57
10.833	0.00	0.23	0.121	O	|	|	|	1.55
10.917	0.00	0.23	0.120	O	|	|	|	1.54
11.000	0.00	0.23	0.118	O	|	|	|	1.52
11.083	0.00	0.23	0.117	O	|	|	|	1.50
11.167	0.00	0.23	0.115	O	|	|	|	1.48
11.250	0.00	0.23	0.113	O	|	|	|	1.47
11.333	0.00	0.23	0.112	O	|	|	|	1.45
11.417	0.00	0.23	0.110	O	|	|	|	1.43
11.500	0.00	0.23	0.109	O	|	|	|	1.42
11.583	0.00	0.23	0.107	O	|	|	|	1.40
11.667	0.00	0.23	0.106	O	|	|	|	1.38
11.750	0.00	0.23	0.104	O	|	|	|	1.36
11.833	0.00	0.23	0.102	O	|	|	|	1.35
11.917	0.00	0.23	0.101	O	|	|	|	1.33
12.000	0.00	0.23	0.099	O	|	|	|	1.31
12.083	0.00	0.23	0.098	O	|	|	|	1.30
12.167	0.00	0.23	0.096	O	|	|	|	1.28
12.250	0.00	0.23	0.094	O	|	|	|	1.26
12.333	0.00	0.23	0.093	O	|	|	|	1.25
12.417	0.00	0.23	0.091	O	|	|	|	1.23
12.500	0.00	0.23	0.090	O	|	|	|	1.21
12.583	0.00	0.23	0.088	O	|	|	|	1.19
12.667	0.00	0.23	0.087	O	|	|	|	1.18
12.750	0.00	0.23	0.085	O	|	|	|	1.16
12.833	0.00	0.23	0.083	O	|	|	|	1.14
12.917	0.00	0.23	0.082	O	|	|	|	1.13
13.000	0.00	0.23	0.080	O	|	|	|	1.11
13.083	0.00	0.23	0.079	O	|	|	|	1.09
13.167	0.00	0.23	0.077	O	|	|	|	1.08
13.250	0.00	0.23	0.075	O	|	|	|	1.06
13.333	0.00	0.23	0.074	O	|	|	|	1.04
13.417	0.00	0.23	0.072	O	|	|	|	1.02
13.500	0.00	0.23	0.071	O	|	|	|	1.01
13.583	0.00	0.23	0.069	O	|	|	|	0.99
13.667	0.00	0.22	0.068	O	|	|	|	0.96
13.750	0.00	0.22	0.066	O	|	|	|	0.94
13.833	0.00	0.21	0.065	O	|	|	|	0.92
13.917	0.00	0.21	0.063	O	|	|	|	0.90

14.000	0.00	0.20	0.062	O	|	|	|	0.88
14.083	0.00	0.20	0.060	O	|	|	|	0.86
14.167	0.00	0.19	0.059	O	|	|	|	0.84
14.250	0.00	0.19	0.058	O	|	|	|	0.82
14.333	0.00	0.19	0.056	O	|	|	|	0.81
14.417	0.00	0.18	0.055	O	|	|	|	0.79
14.500	0.00	0.18	0.054	O	|	|	|	0.77
14.583	0.00	0.17	0.053	O	|	|	|	0.75
14.667	0.00	0.17	0.051	O	|	|	|	0.74
14.750	0.00	0.17	0.050	O	|	|	|	0.72
14.833	0.00	0.16	0.049	O	|	|	|	0.70
14.917	0.00	0.16	0.048	O	|	|	|	0.69
15.000	0.00	0.15	0.047	O	|	|	|	0.67
15.083	0.00	0.15	0.046	O	|	|	|	0.66
15.167	0.00	0.15	0.045	O	|	|	|	0.64
15.250	0.00	0.14	0.044	O	|	|	|	0.63
15.333	0.00	0.14	0.043	O	|	|	|	0.61
15.417	0.00	0.14	0.042	O	|	|	|	0.60
15.500	0.00	0.13	0.041	O	|	|	|	0.59
15.583	0.00	0.13	0.040	O	|	|	|	0.57
15.667	0.00	0.13	0.039	O	|	|	|	0.56
15.750	0.00	0.13	0.038	O	|	|	|	0.55
15.833	0.00	0.12	0.038	O	|	|	|	0.54
15.917	0.00	0.12	0.037	O	|	|	|	0.52
16.000	0.00	0.12	0.036	O	|	|	|	0.51
16.083	0.00	0.12	0.035	O	|	|	|	0.50
16.167	0.00	0.11	0.034	O	|	|	|	0.49
16.250	0.00	0.11	0.033	O	|	|	|	0.48
16.333	0.00	0.11	0.033	O	|	|	|	0.47
16.417	0.00	0.11	0.032	O	|	|	|	0.46
16.500	0.00	0.10	0.031	O	|	|	|	0.45
16.583	0.00	0.10	0.031	O	|	|	|	0.44
16.667	0.00	0.10	0.030	O	|	|	|	0.43
16.750	0.00	0.10	0.029	O	|	|	|	0.42
16.833	0.00	0.09	0.029	O	|	|	|	0.41
16.917	0.00	0.09	0.028	O	|	|	|	0.40
17.000	0.00	0.09	0.027	O	|	|	|	0.39
17.083	0.00	0.09	0.027	O	|	|	|	0.38
17.167	0.00	0.09	0.026	O	|	|	|	0.37
17.250	0.00	0.08	0.026	O	|	|	|	0.36
17.333	0.00	0.08	0.025	O	|	|	|	0.36
17.417	0.00	0.08	0.024	O	|	|	|	0.35
17.500	0.00	0.08	0.024	O	|	|	|	0.34
17.583	0.00	0.08	0.023	O	|	|	|	0.33
17.667	0.00	0.07	0.023	O	|	|	|	0.33
17.750	0.00	0.07	0.022	O	|	|	|	0.32
17.833	0.00	0.07	0.022	O	|	|	|	0.31
17.917	0.00	0.07	0.021	O	|	|	|	0.30
18.000	0.00	0.07	0.021	O	|	|	|	0.30
18.083	0.00	0.07	0.020	O	|	|	|	0.29
18.167	0.00	0.07	0.020	O	|	|	|	0.28
18.250	0.00	0.06	0.019	O	|	|	|	0.28
18.333	0.00	0.06	0.019	O	|	|	|	0.27
18.417	0.00	0.06	0.019	O	|	|	|	0.27
18.500	0.00	0.06	0.018	O	|	|	|	0.26
18.583	0.00	0.06	0.018	O	|	|	|	0.25
18.667	0.00	0.06	0.017	O	|	|	|	0.25
18.750	0.00	0.06	0.017	O	|	|	|	0.24
18.833	0.00	0.05	0.017	O	|	|	|	0.24
18.917	0.00	0.05	0.016	O	|	|	|	0.23

19.000	0.00	0.05	0.016	O	|	|	|	0.23
19.083	0.00	0.05	0.016	O	|	|	|	0.22
19.167	0.00	0.05	0.015	O	|	|	|	0.22
19.250	0.00	0.05	0.015	O	|	|	|	0.21
19.333	0.00	0.05	0.014	O	|	|	|	0.21
19.417	0.00	0.05	0.014	O	|	|	|	0.20
19.500	0.00	0.05	0.014	O	|	|	|	0.20
19.583	0.00	0.04	0.014	O	|	|	|	0.19
19.667	0.00	0.04	0.013	O	|	|	|	0.19
19.750	0.00	0.04	0.013	O	|	|	|	0.18
19.833	0.00	0.04	0.013	O	|	|	|	0.18
19.917	0.00	0.04	0.012	O	|	|	|	0.18
20.000	0.00	0.04	0.012	O	|	|	|	0.17
20.083	0.00	0.04	0.012	O	|	|	|	0.17
20.167	0.00	0.04	0.012	O	|	|	|	0.17
20.250	0.00	0.04	0.011	O	|	|	|	0.16
20.333	0.00	0.04	0.011	O	|	|	|	0.16
20.417	0.00	0.04	0.011	O	|	|	|	0.15
20.500	0.00	0.03	0.011	O	|	|	|	0.15
20.583	0.00	0.03	0.010	O	|	|	|	0.15
20.667	0.00	0.03	0.010	O	|	|	|	0.14
20.750	0.00	0.03	0.010	O	|	|	|	0.14
20.833	0.00	0.03	0.010	O	|	|	|	0.14
20.917	0.00	0.03	0.009	O	|	|	|	0.13
21.000	0.00	0.03	0.009	O	|	|	|	0.13
21.083	0.00	0.03	0.009	O	|	|	|	0.13
21.167	0.00	0.03	0.009	O	|	|	|	0.13
21.250	0.00	0.03	0.009	O	|	|	|	0.12
21.333	0.00	0.03	0.008	O	|	|	|	0.12
21.417	0.00	0.03	0.008	O	|	|	|	0.12
21.500	0.00	0.03	0.008	O	|	|	|	0.11
21.583	0.00	0.03	0.008	O	|	|	|	0.11
21.667	0.00	0.03	0.008	O	|	|	|	0.11
21.750	0.00	0.02	0.008	O	|	|	|	0.11
21.833	0.00	0.02	0.007	O	|	|	|	0.11
21.917	0.00	0.02	0.007	O	|	|	|	0.10
22.000	0.00	0.02	0.007	O	|	|	|	0.10
22.083	0.00	0.02	0.007	O	|	|	|	0.10
22.167	0.00	0.02	0.007	O	|	|	|	0.10
22.250	0.00	0.02	0.007	O	|	|	|	0.09
22.333	0.00	0.02	0.006	O	|	|	|	0.09
22.417	0.00	0.02	0.006	O	|	|	|	0.09
22.500	0.00	0.02	0.006	O	|	|	|	0.09
22.583	0.00	0.02	0.006	O	|	|	|	0.09
22.667	0.00	0.02	0.006	O	|	|	|	0.08
22.750	0.00	0.02	0.006	O	|	|	|	0.08
22.833	0.00	0.02	0.006	O	|	|	|	0.08
22.917	0.00	0.02	0.005	O	|	|	|	0.08
23.000	0.00	0.02	0.005	O	|	|	|	0.08
23.083	0.00	0.02	0.005	O	|	|	|	0.07
23.167	0.00	0.02	0.005	O	|	|	|	0.07
23.250	0.00	0.02	0.005	O	|	|	|	0.07
23.333	0.00	0.02	0.005	O	|	|	|	0.07
23.417	0.00	0.02	0.005	O	|	|	|	0.07
23.500	0.00	0.02	0.005	O	|	|	|	0.07
23.583	0.00	0.02	0.005	O	|	|	|	0.07
23.667	0.00	0.01	0.004	O	|	|	|	0.06
23.750	0.00	0.01	0.004	O	|	|	|	0.06
23.833	0.00	0.01	0.004	O	|	|	|	0.06
23.917	0.00	0.01	0.004	O	|	|	|	0.06

24.000	0.00	0.01	0.004	O	|	|	|	0.06
24.083	0.00	0.01	0.004	O	|	|	|	0.06
24.167	0.00	0.01	0.004	O	|	|	|	0.06
24.250	0.00	0.01	0.004	O	|	|	|	0.05
24.333	0.00	0.01	0.004	O	|	|	|	0.05
24.417	0.00	0.01	0.004	O	|	|	|	0.05
24.500	0.00	0.01	0.004	O	|	|	|	0.05
24.583	0.00	0.01	0.003	O	|	|	|	0.05
24.667	0.00	0.01	0.003	O	|	|	|	0.05
24.750	0.00	0.01	0.003	O	|	|	|	0.05
24.833	0.00	0.01	0.003	O	|	|	|	0.05
24.917	0.00	0.01	0.003	O	|	|	|	0.05
25.000	0.00	0.01	0.003	O	|	|	|	0.04
25.083	0.00	0.01	0.003	O	|	|	|	0.04
25.167	0.00	0.01	0.003	O	|	|	|	0.04
25.250	0.00	0.01	0.003	O	|	|	|	0.04
25.333	0.00	0.01	0.003	O	|	|	|	0.04
25.417	0.00	0.01	0.003	O	|	|	|	0.04
25.500	0.00	0.01	0.003	O	|	|	|	0.04
25.583	0.00	0.01	0.003	O	|	|	|	0.04
25.667	0.00	0.01	0.003	O	|	|	|	0.04
25.750	0.00	0.01	0.003	O	|	|	|	0.04
25.833	0.00	0.01	0.002	O	|	|	|	0.04
25.917	0.00	0.01	0.002	O	|	|	|	0.03
26.000	0.00	0.01	0.002	O	|	|	|	0.03
26.083	0.00	0.01	0.002	O	|	|	|	0.03
26.167	0.00	0.01	0.002	O	|	|	|	0.03
26.250	0.00	0.01	0.002	O	|	|	|	0.03
26.333	0.00	0.01	0.002	O	|	|	|	0.03
26.417	0.00	0.01	0.002	O	|	|	|	0.03
26.500	0.00	0.01	0.002	O	|	|	|	0.03
26.583	0.00	0.01	0.002	O	|	|	|	0.03
26.667	0.00	0.01	0.002	O	|	|	|	0.03
26.750	0.00	0.01	0.002	O	|	|	|	0.03
26.833	0.00	0.01	0.002	O	|	|	|	0.03
26.917	0.00	0.01	0.002	O	|	|	|	0.03
27.000	0.00	0.01	0.002	O	|	|	|	0.03
27.083	0.00	0.01	0.002	O	|	|	|	0.03
27.167	0.00	0.01	0.002	O	|	|	|	0.02
27.250	0.00	0.01	0.002	O	|	|	|	0.02
27.333	0.00	0.01	0.002	O	|	|	|	0.02
27.417	0.00	0.01	0.002	O	|	|	|	0.02
27.500	0.00	0.01	0.002	O	|	|	|	0.02
27.583	0.00	0.01	0.002	O	|	|	|	0.02
27.667	0.00	0.00	0.002	O	|	|	|	0.02
27.750	0.00	0.00	0.001	O	|	|	|	0.02
27.833	0.00	0.00	0.001	O	|	|	|	0.02
27.917	0.00	0.00	0.001	O	|	|	|	0.02
28.000	0.00	0.00	0.001	O	|	|	|	0.02
28.083	0.00	0.00	0.001	O	|	|	|	0.02
28.167	0.00	0.00	0.001	O	|	|	|	0.02
28.250	0.00	0.00	0.001	O	|	|	|	0.02
28.333	0.00	0.00	0.001	O	|	|	|	0.02
28.417	0.00	0.00	0.001	O	|	|	|	0.02
28.500	0.00	0.00	0.001	O	|	|	|	0.02
28.583	0.00	0.00	0.001	O	|	|	|	0.02
28.667	0.00	0.00	0.001	O	|	|	|	0.02
28.750	0.00	0.00	0.001	O	|	|	|	0.02
28.833	0.00	0.00	0.001	O	|	|	|	0.02
28.917	0.00	0.00	0.001	O	|	|	|	0.02

29.000	0.00	0.00	0.001	O	|	|	|	|	0.02
29.083	0.00	0.00	0.001	O	|	|	|	|	0.01
29.167	0.00	0.00	0.001	O	|	|	|	|	0.01
29.250	0.00	0.00	0.001	O	|	|	|	|	0.01
29.333	0.00	0.00	0.001	O	|	|	|	|	0.01
29.417	0.00	0.00	0.001	O	|	|	|	|	0.01
29.500	0.00	0.00	0.001	O	|	|	|	|	0.01
29.583	0.00	0.00	0.001	O	|	|	|	|	0.01
29.667	0.00	0.00	0.001	O	|	|	|	|	0.01
29.750	0.00	0.00	0.001	O	|	|	|	|	0.01
29.833	0.00	0.00	0.001	O	|	|	|	|	0.01
29.917	0.00	0.00	0.001	O	|	|	|	|	0.01
30.000	0.00	0.00	0.001	O	|	|	|	|	0.01
30.083	0.00	0.00	0.001	O	|	|	|	|	0.01
30.167	0.00	0.00	0.001	O	|	|	|	|	0.01
30.250	0.00	0.00	0.001	O	|	|	|	|	0.01
30.333	0.00	0.00	0.001	O	|	|	|	|	0.01
30.417	0.00	0.00	0.001	O	|	|	|	|	0.01
30.500	0.00	0.00	0.001	O	|	|	|	|	0.01
30.583	0.00	0.00	0.001	O	|	|	|	|	0.01
30.667	0.00	0.00	0.001	O	|	|	|	|	0.01
30.750	0.00	0.00	0.001	O	|	|	|	|	0.01
30.833	0.00	0.00	0.001	O	|	|	|	|	0.01
30.917	0.00	0.00	0.001	O	|	|	|	|	0.01
31.000	0.00	0.00	0.001	O	|	|	|	|	0.01
31.083	0.00	0.00	0.001	O	|	|	|	|	0.01
31.167	0.00	0.00	0.001	O	|	|	|	|	0.01
31.250	0.00	0.00	0.001	O	|	|	|	|	0.01
31.333	0.00	0.00	0.001	O	|	|	|	|	0.01
31.417	0.00	0.00	0.001	O	|	|	|	|	0.01
31.500	0.00	0.00	0.001	O	|	|	|	|	0.01
31.583	0.00	0.00	0.001	O	|	|	|	|	0.01
31.667	0.00	0.00	0.001	O	|	|	|	|	0.01
31.750	0.00	0.00	0.000	O	|	|	|	|	0.01
31.833	0.00	0.00	0.000	O	|	|	|	|	0.01
31.917	0.00	0.00	0.000	O	|	|	|	|	0.01
32.000	0.00	0.00	0.000	O	|	|	|	|	0.01
32.083	0.00	0.00	0.000	O	|	|	|	|	0.01
32.167	0.00	0.00	0.000	O	|	|	|	|	0.01
32.250	0.00	0.00	0.000	O	|	|	|	|	0.01
32.333	0.00	0.00	0.000	O	|	|	|	|	0.01
32.417	0.00	0.00	0.000	O	|	|	|	|	0.01
32.500	0.00	0.00	0.000	O	|	|	|	|	0.01
32.583	0.00	0.00	0.000	O	|	|	|	|	0.01
32.667	0.00	0.00	0.000	O	|	|	|	|	0.01
32.750	0.00	0.00	0.000	O	|	|	|	|	0.01
32.833	0.00	0.00	0.000	O	|	|	|	|	0.01
32.917	0.00	0.00	0.000	O	|	|	|	|	0.01
33.000	0.00	0.00	0.000	O	|	|	|	|	0.01
33.083	0.00	0.00	0.000	O	|	|	|	|	0.00
33.167	0.00	0.00	0.000	O	|	|	|	|	0.00
33.250	0.00	0.00	0.000	O	|	|	|	|	0.00
33.333	0.00	0.00	0.000	O	|	|	|	|	0.00
33.417	0.00	0.00	0.000	O	|	|	|	|	0.00
33.500	0.00	0.00	0.000	O	|	|	|	|	0.00
33.583	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 403

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 3.017 (CFS)
Total volume = 0.547 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
100-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 36
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 9.944 (CFS)
Total volume = 0.780 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 36
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 2.5 4.97 7.46 9.94	Depth (Ft.)
0.083	1.34	0.01	0.005	O I | | | |	0.07
0.167	1.34	0.04	0.014	O I | | | |	0.19
0.250	1.13	0.07	0.022	O I | | | |	0.31
0.333	1.55	0.10	0.030	O I | | | |	0.43
0.417	1.55	0.13	0.040	O I | | | |	0.57
0.500	1.90	0.17	0.051	O I | | | |	0.73
0.583	1.55	0.20	0.062	O I | | | |	0.88
0.667	1.90	0.23	0.072	O I | | | |	1.02
0.750	1.90	0.23	0.084	O I | | | |	1.15
0.833	1.55	0.23	0.094	O I | | | |	1.26
0.917	1.65	0.23	0.103	O I | | | |	1.36
1.000	1.90	0.23	0.114	O I | | | |	1.47
1.083	2.40	0.23	0.127	O I| | | |	1.61
1.167	2.40	0.23	0.142	O I| | | |	1.77
1.250	2.40	0.23	0.157	O I| | | |	1.94
1.333	2.15	0.23	0.171	O I | | | |	2.08
1.417	2.91	0.23	0.187	O |I | | |	2.23
1.500	3.03	0.23	0.206	O |I | | |	2.40
1.583	2.65	0.23	0.224	O I | | |	2.57
1.667	3.03	0.23	0.242	O |I | | |	2.74
1.750	3.79	0.23	0.264	O | I | | |	2.95
1.833	3.53	0.53	0.286	|O | I | | |	3.16
1.917	3.28	0.86	0.305	| O | I | | |	3.33
2.000	3.41	1.14	0.321	| O | I | | |	3.47
2.083	3.53	1.40	0.336	| O | I | | |	3.61
2.167	4.92	1.72	0.355	| O | I| | |	3.78
2.250	5.92	2.14	0.379	| O | | I | |	4.00
2.333	4.04	2.31	0.398	| O| I | | |	4.17
2.417	8.18	2.53	0.423	| O | | I |	4.41
2.500	8.81	2.87	0.463	| |O | | I |	4.78
2.583	9.94	3.22	0.507	| | O | | | I	5.22
2.667	7.05	3.49	0.542	| | O | I | |	5.60
2.750	2.15	3.54	0.549	| I | O | | |	5.68
2.833	1.90	3.47	0.539	| I | O | | |	5.57
2.917	1.90	3.39	0.529	| I | O | | |	5.46
3.000	0.62	3.28	0.515	|I | O | | |	5.31
3.083	0.00	3.13	0.495	I | O | | |	5.09
3.167	0.00	2.96	0.474	I |O | | |	4.88
3.250	0.00	2.79	0.454	I O | | |	4.70
3.333	0.00	2.63	0.435	I O | | |	4.52
3.417	0.00	2.48	0.417	I O| | | |	4.36
3.500	0.00	2.34	0.401	I O| | | |	4.20
3.583	0.00	2.20	0.385	I O| | | |	4.06
3.667	0.00	2.01	0.371	I O | | | |	3.92
3.750	0.00	1.78	0.358	I O | | | |	3.81
3.833	0.00	1.58	0.346	I O | | | |	3.70
3.917	0.00	1.40	0.336	I O | | | |	3.61

4.000	0.00	1.24	0.327	I O	|	|	|	3.53
4.083	0.00	1.10	0.319	I O	|	|	|	3.45
4.167	0.00	0.97	0.312	I O	|	|	|	3.39
4.250	0.00	0.86	0.305	I O	|	|	|	3.33
4.333	0.00	0.77	0.300	I O	|	|	|	3.28
4.417	0.00	0.68	0.295	I O	|	|	|	3.23
4.500	0.00	0.60	0.290	IO	|	|	|	3.19
4.583	0.00	0.53	0.286	IO	|	|	|	3.16
4.667	0.00	0.47	0.283	IO	|	|	|	3.13
4.750	0.00	0.42	0.280	IO	|	|	|	3.10
4.833	0.00	0.37	0.277	IO	|	|	|	3.07
4.917	0.00	0.33	0.275	IO	|	|	|	3.05
5.000	0.00	0.29	0.273	O	|	|	|	3.03
5.083	0.00	0.26	0.271	O	|	|	|	3.02
5.167	0.00	0.23	0.269	O	|	|	|	3.00
5.250	0.00	0.23	0.267	O	|	|	|	2.98
5.333	0.00	0.23	0.266	O	|	|	|	2.97
5.417	0.00	0.23	0.264	O	|	|	|	2.96
5.500	0.00	0.23	0.263	O	|	|	|	2.94
5.583	0.00	0.23	0.261	O	|	|	|	2.93
5.667	0.00	0.23	0.259	O	|	|	|	2.91
5.750	0.00	0.23	0.258	O	|	|	|	2.90
5.833	0.00	0.23	0.256	O	|	|	|	2.88
5.917	0.00	0.23	0.255	O	|	|	|	2.87
6.000	0.00	0.23	0.253	O	|	|	|	2.85
6.083	0.00	0.23	0.252	O	|	|	|	2.84
6.167	0.00	0.23	0.250	O	|	|	|	2.82
6.250	0.00	0.23	0.248	O	|	|	|	2.81
6.333	0.00	0.23	0.247	O	|	|	|	2.79
6.417	0.00	0.23	0.245	O	|	|	|	2.78
6.500	0.00	0.23	0.244	O	|	|	|	2.76
6.583	0.00	0.23	0.242	O	|	|	|	2.75
6.667	0.00	0.23	0.240	O	|	|	|	2.73
6.750	0.00	0.23	0.239	O	|	|	|	2.72
6.833	0.00	0.23	0.237	O	|	|	|	2.70
6.917	0.00	0.23	0.236	O	|	|	|	2.69
7.000	0.00	0.23	0.234	O	|	|	|	2.67
7.083	0.00	0.23	0.233	O	|	|	|	2.66
7.167	0.00	0.23	0.231	O	|	|	|	2.64
7.250	0.00	0.23	0.229	O	|	|	|	2.63
7.333	0.00	0.23	0.228	O	|	|	|	2.61
7.417	0.00	0.23	0.226	O	|	|	|	2.60
7.500	0.00	0.23	0.225	O	|	|	|	2.58
7.583	0.00	0.23	0.223	O	|	|	|	2.57
7.667	0.00	0.23	0.221	O	|	|	|	2.55
7.750	0.00	0.23	0.220	O	|	|	|	2.54
7.833	0.00	0.23	0.218	O	|	|	|	2.52
7.917	0.00	0.23	0.217	O	|	|	|	2.51
8.000	0.00	0.23	0.215	O	|	|	|	2.49
8.083	0.00	0.23	0.214	O	|	|	|	2.48
8.167	0.00	0.23	0.212	O	|	|	|	2.46
8.250	0.00	0.23	0.210	O	|	|	|	2.45
8.333	0.00	0.23	0.209	O	|	|	|	2.43
8.417	0.00	0.23	0.207	O	|	|	|	2.42
8.500	0.00	0.23	0.206	O	|	|	|	2.40
8.583	0.00	0.23	0.204	O	|	|	|	2.39
8.667	0.00	0.23	0.202	O	|	|	|	2.37
8.750	0.00	0.23	0.201	O	|	|	|	2.36
8.833	0.00	0.23	0.199	O	|	|	|	2.34
8.917	0.00	0.23	0.198	O	|	|	|	2.33

9.000	0.00	0.23	0.196	O					2.31
9.083	0.00	0.23	0.195	O					2.30
9.167	0.00	0.23	0.193	O					2.28
9.250	0.00	0.23	0.191	O					2.27
9.333	0.00	0.23	0.190	O					2.25
9.417	0.00	0.23	0.188	O					2.24
9.500	0.00	0.23	0.187	O					2.22
9.583	0.00	0.23	0.185	O					2.21
9.667	0.00	0.23	0.183	O					2.19
9.750	0.00	0.23	0.182	O					2.18
9.833	0.00	0.23	0.180	O					2.16
9.917	0.00	0.23	0.179	O					2.15
10.000	0.00	0.23	0.177	O					2.13
10.083	0.00	0.23	0.176	O					2.12
10.167	0.00	0.23	0.174	O					2.10
10.250	0.00	0.23	0.172	O					2.09
10.333	0.00	0.23	0.171	O					2.07
10.417	0.00	0.23	0.169	O					2.06
10.500	0.00	0.23	0.168	O					2.04
10.583	0.00	0.23	0.166	O					2.03
10.667	0.00	0.23	0.164	O					2.01
10.750	0.00	0.23	0.163	O					2.00
10.833	0.00	0.23	0.161	O					1.98
10.917	0.00	0.23	0.160	O					1.96
11.000	0.00	0.23	0.158	O					1.95
11.083	0.00	0.23	0.157	O					1.93
11.167	0.00	0.23	0.155	O					1.91
11.250	0.00	0.23	0.153	O					1.90
11.333	0.00	0.23	0.152	O					1.88
11.417	0.00	0.23	0.150	O					1.86
11.500	0.00	0.23	0.149	O					1.85
11.583	0.00	0.23	0.147	O					1.83
11.667	0.00	0.23	0.145	O					1.81
11.750	0.00	0.23	0.144	O					1.79
11.833	0.00	0.23	0.142	O					1.78
11.917	0.00	0.23	0.141	O					1.76
12.000	0.00	0.23	0.139	O					1.74
12.083	0.00	0.23	0.138	O					1.73
12.167	0.00	0.23	0.136	O					1.71
12.250	0.00	0.23	0.134	O					1.69
12.333	0.00	0.23	0.133	O					1.67
12.417	0.00	0.23	0.131	O					1.66
12.500	0.00	0.23	0.130	O					1.64
12.583	0.00	0.23	0.128	O					1.62
12.667	0.00	0.23	0.126	O					1.61
12.750	0.00	0.23	0.125	O					1.59
12.833	0.00	0.23	0.123	O					1.57
12.917	0.00	0.23	0.122	O					1.56
13.000	0.00	0.23	0.120	O					1.54
13.083	0.00	0.23	0.119	O					1.52
13.167	0.00	0.23	0.117	O					1.50
13.250	0.00	0.23	0.115	O					1.49
13.333	0.00	0.23	0.114	O					1.47
13.417	0.00	0.23	0.112	O					1.45
13.500	0.00	0.23	0.111	O					1.44
13.583	0.00	0.23	0.109	O					1.42
13.667	0.00	0.23	0.107	O					1.40
13.750	0.00	0.23	0.106	O					1.39
13.833	0.00	0.23	0.104	O					1.37
13.917	0.00	0.23	0.103	O					1.35

14.000	0.00	0.23	0.101	O	|	|	|	1.33
14.083	0.00	0.23	0.099	O	|	|	|	1.32
14.167	0.00	0.23	0.098	O	|	|	|	1.30
14.250	0.00	0.23	0.096	O	|	|	|	1.28
14.333	0.00	0.23	0.095	O	|	|	|	1.27
14.417	0.00	0.23	0.093	O	|	|	|	1.25
14.500	0.00	0.23	0.092	O	|	|	|	1.23
14.583	0.00	0.23	0.090	O	|	|	|	1.22
14.667	0.00	0.23	0.088	O	|	|	|	1.20
14.750	0.00	0.23	0.087	O	|	|	|	1.18
14.833	0.00	0.23	0.085	O	|	|	|	1.16
14.917	0.00	0.23	0.084	O	|	|	|	1.15
15.000	0.00	0.23	0.082	O	|	|	|	1.13
15.083	0.00	0.23	0.080	O	|	|	|	1.11
15.167	0.00	0.23	0.079	O	|	|	|	1.10
15.250	0.00	0.23	0.077	O	|	|	|	1.08
15.333	0.00	0.23	0.076	O	|	|	|	1.06
15.417	0.00	0.23	0.074	O	|	|	|	1.04
15.500	0.00	0.23	0.073	O	|	|	|	1.03
15.583	0.00	0.23	0.071	O	|	|	|	1.01
15.667	0.00	0.23	0.069	O	|	|	|	0.99
15.750	0.00	0.22	0.068	O	|	|	|	0.97
15.833	0.00	0.22	0.066	O	|	|	|	0.95
15.917	0.00	0.21	0.065	O	|	|	|	0.93
16.000	0.00	0.21	0.063	O	|	|	|	0.91
16.083	0.00	0.20	0.062	O	|	|	|	0.89
16.167	0.00	0.20	0.061	O	|	|	|	0.87
16.250	0.00	0.19	0.059	O	|	|	|	0.85
16.333	0.00	0.19	0.058	O	|	|	|	0.83
16.417	0.00	0.19	0.057	O	|	|	|	0.81
16.500	0.00	0.18	0.055	O	|	|	|	0.79
16.583	0.00	0.18	0.054	O	|	|	|	0.77
16.667	0.00	0.17	0.053	O	|	|	|	0.76
16.750	0.00	0.17	0.052	O	|	|	|	0.74
16.833	0.00	0.17	0.051	O	|	|	|	0.72
16.917	0.00	0.16	0.049	O	|	|	|	0.71
17.000	0.00	0.16	0.048	O	|	|	|	0.69
17.083	0.00	0.16	0.047	O	|	|	|	0.67
17.167	0.00	0.15	0.046	O	|	|	|	0.66
17.250	0.00	0.15	0.045	O	|	|	|	0.65
17.333	0.00	0.15	0.044	O	|	|	|	0.63
17.417	0.00	0.14	0.043	O	|	|	|	0.62
17.500	0.00	0.14	0.042	O	|	|	|	0.60
17.583	0.00	0.14	0.041	O	|	|	|	0.59
17.667	0.00	0.13	0.040	O	|	|	|	0.58
17.750	0.00	0.13	0.039	O	|	|	|	0.56
17.833	0.00	0.13	0.039	O	|	|	|	0.55
17.917	0.00	0.12	0.038	O	|	|	|	0.54
18.000	0.00	0.12	0.037	O	|	|	|	0.53
18.083	0.00	0.12	0.036	O	|	|	|	0.51
18.167	0.00	0.12	0.035	O	|	|	|	0.50
18.250	0.00	0.11	0.034	O	|	|	|	0.49
18.333	0.00	0.11	0.034	O	|	|	|	0.48
18.417	0.00	0.11	0.033	O	|	|	|	0.47
18.500	0.00	0.11	0.032	O	|	|	|	0.46
18.583	0.00	0.10	0.031	O	|	|	|	0.45
18.667	0.00	0.10	0.031	O	|	|	|	0.44
18.750	0.00	0.10	0.030	O	|	|	|	0.43
18.833	0.00	0.10	0.029	O	|	|	|	0.42
18.917	0.00	0.09	0.029	O	|	|	|	0.41

19.000	0.00	0.09	0.028	O	|	|	|	0.40
19.083	0.00	0.09	0.027	O	|	|	|	0.39
19.167	0.00	0.09	0.027	O	|	|	|	0.38
19.250	0.00	0.09	0.026	O	|	|	|	0.37
19.333	0.00	0.08	0.026	O	|	|	|	0.37
19.417	0.00	0.08	0.025	O	|	|	|	0.36
19.500	0.00	0.08	0.025	O	|	|	|	0.35
19.583	0.00	0.08	0.024	O	|	|	|	0.34
19.667	0.00	0.08	0.023	O	|	|	|	0.33
19.750	0.00	0.08	0.023	O	|	|	|	0.33
19.833	0.00	0.07	0.022	O	|	|	|	0.32
19.917	0.00	0.07	0.022	O	|	|	|	0.31
20.000	0.00	0.07	0.021	O	|	|	|	0.31
20.083	0.00	0.07	0.021	O	|	|	|	0.30
20.167	0.00	0.07	0.020	O	|	|	|	0.29
20.250	0.00	0.07	0.020	O	|	|	|	0.29
20.333	0.00	0.06	0.020	O	|	|	|	0.28
20.417	0.00	0.06	0.019	O	|	|	|	0.27
20.500	0.00	0.06	0.019	O	|	|	|	0.27
20.583	0.00	0.06	0.018	O	|	|	|	0.26
20.667	0.00	0.06	0.018	O	|	|	|	0.26
20.750	0.00	0.06	0.017	O	|	|	|	0.25
20.833	0.00	0.06	0.017	O	|	|	|	0.24
20.917	0.00	0.05	0.017	O	|	|	|	0.24
21.000	0.00	0.05	0.016	O	|	|	|	0.23
21.083	0.00	0.05	0.016	O	|	|	|	0.23
21.167	0.00	0.05	0.016	O	|	|	|	0.22
21.250	0.00	0.05	0.015	O	|	|	|	0.22
21.333	0.00	0.05	0.015	O	|	|	|	0.21
21.417	0.00	0.05	0.015	O	|	|	|	0.21
21.500	0.00	0.05	0.014	O	|	|	|	0.20
21.583	0.00	0.05	0.014	O	|	|	|	0.20
21.667	0.00	0.04	0.014	O	|	|	|	0.19
21.750	0.00	0.04	0.013	O	|	|	|	0.19
21.833	0.00	0.04	0.013	O	|	|	|	0.19
21.917	0.00	0.04	0.013	O	|	|	|	0.18
22.000	0.00	0.04	0.012	O	|	|	|	0.18
22.083	0.00	0.04	0.012	O	|	|	|	0.17
22.167	0.00	0.04	0.012	O	|	|	|	0.17
22.250	0.00	0.04	0.012	O	|	|	|	0.17
22.333	0.00	0.04	0.011	O	|	|	|	0.16
22.417	0.00	0.04	0.011	O	|	|	|	0.16
22.500	0.00	0.04	0.011	O	|	|	|	0.16
22.583	0.00	0.03	0.011	O	|	|	|	0.15
22.667	0.00	0.03	0.010	O	|	|	|	0.15
22.750	0.00	0.03	0.010	O	|	|	|	0.14
22.833	0.00	0.03	0.010	O	|	|	|	0.14
22.917	0.00	0.03	0.010	O	|	|	|	0.14
23.000	0.00	0.03	0.009	O	|	|	|	0.14
23.083	0.00	0.03	0.009	O	|	|	|	0.13
23.167	0.00	0.03	0.009	O	|	|	|	0.13
23.250	0.00	0.03	0.009	O	|	|	|	0.13
23.333	0.00	0.03	0.009	O	|	|	|	0.12
23.417	0.00	0.03	0.008	O	|	|	|	0.12
23.500	0.00	0.03	0.008	O	|	|	|	0.12
23.583	0.00	0.03	0.008	O	|	|	|	0.12
23.667	0.00	0.03	0.008	O	|	|	|	0.11
23.750	0.00	0.03	0.008	O	|	|	|	0.11
23.833	0.00	0.02	0.008	O	|	|	|	0.11
23.917	0.00	0.02	0.007	O	|	|	|	0.11

24.000	0.00	0.02	0.007	O	|	|	|	0.10
24.083	0.00	0.02	0.007	O	|	|	|	0.10
24.167	0.00	0.02	0.007	O	|	|	|	0.10
24.250	0.00	0.02	0.007	O	|	|	|	0.10
24.333	0.00	0.02	0.007	O	|	|	|	0.09
24.417	0.00	0.02	0.006	O	|	|	|	0.09
24.500	0.00	0.02	0.006	O	|	|	|	0.09
24.583	0.00	0.02	0.006	O	|	|	|	0.09
24.667	0.00	0.02	0.006	O	|	|	|	0.09
24.750	0.00	0.02	0.006	O	|	|	|	0.08
24.833	0.00	0.02	0.006	O	|	|	|	0.08
24.917	0.00	0.02	0.006	O	|	|	|	0.08
25.000	0.00	0.02	0.006	O	|	|	|	0.08
25.083	0.00	0.02	0.005	O	|	|	|	0.08
25.167	0.00	0.02	0.005	O	|	|	|	0.08
25.250	0.00	0.02	0.005	O	|	|	|	0.07
25.333	0.00	0.02	0.005	O	|	|	|	0.07
25.417	0.00	0.02	0.005	O	|	|	|	0.07
25.500	0.00	0.02	0.005	O	|	|	|	0.07
25.583	0.00	0.02	0.005	O	|	|	|	0.07
25.667	0.00	0.02	0.005	O	|	|	|	0.07
25.750	0.00	0.01	0.004	O	|	|	|	0.06
25.833	0.00	0.01	0.004	O	|	|	|	0.06
25.917	0.00	0.01	0.004	O	|	|	|	0.06
26.000	0.00	0.01	0.004	O	|	|	|	0.06
26.083	0.00	0.01	0.004	O	|	|	|	0.06
26.167	0.00	0.01	0.004	O	|	|	|	0.06
26.250	0.00	0.01	0.004	O	|	|	|	0.06
26.333	0.00	0.01	0.004	O	|	|	|	0.05
26.417	0.00	0.01	0.004	O	|	|	|	0.05
26.500	0.00	0.01	0.004	O	|	|	|	0.05
26.583	0.00	0.01	0.004	O	|	|	|	0.05
26.667	0.00	0.01	0.004	O	|	|	|	0.05
26.750	0.00	0.01	0.003	O	|	|	|	0.05
26.833	0.00	0.01	0.003	O	|	|	|	0.05
26.917	0.00	0.01	0.003	O	|	|	|	0.05
27.000	0.00	0.01	0.003	O	|	|	|	0.05
27.083	0.00	0.01	0.003	O	|	|	|	0.04
27.167	0.00	0.01	0.003	O	|	|	|	0.04
27.250	0.00	0.01	0.003	O	|	|	|	0.04
27.333	0.00	0.01	0.003	O	|	|	|	0.04
27.417	0.00	0.01	0.003	O	|	|	|	0.04
27.500	0.00	0.01	0.003	O	|	|	|	0.04
27.583	0.00	0.01	0.003	O	|	|	|	0.04
27.667	0.00	0.01	0.003	O	|	|	|	0.04
27.750	0.00	0.01	0.003	O	|	|	|	0.04
27.833	0.00	0.01	0.003	O	|	|	|	0.04
27.917	0.00	0.01	0.002	O	|	|	|	0.04
28.000	0.00	0.01	0.002	O	|	|	|	0.03
28.083	0.00	0.01	0.002	O	|	|	|	0.03
28.167	0.00	0.01	0.002	O	|	|	|	0.03
28.250	0.00	0.01	0.002	O	|	|	|	0.03
28.333	0.00	0.01	0.002	O	|	|	|	0.03
28.417	0.00	0.01	0.002	O	|	|	|	0.03
28.500	0.00	0.01	0.002	O	|	|	|	0.03
28.583	0.00	0.01	0.002	O	|	|	|	0.03
28.667	0.00	0.01	0.002	O	|	|	|	0.03
28.750	0.00	0.01	0.002	O	|	|	|	0.03
28.833	0.00	0.01	0.002	O	|	|	|	0.03
28.917	0.00	0.01	0.002	O	|	|	|	0.03

29.000	0.00	0.01	0.002	O	|	|	|	0.03
29.083	0.00	0.01	0.002	O	|	|	|	0.03
29.167	0.00	0.01	0.002	O	|	|	|	0.03
29.250	0.00	0.01	0.002	O	|	|	|	0.02
29.333	0.00	0.01	0.002	O	|	|	|	0.02
29.417	0.00	0.01	0.002	O	|	|	|	0.02
29.500	0.00	0.01	0.002	O	|	|	|	0.02
29.583	0.00	0.01	0.002	O	|	|	|	0.02
29.667	0.00	0.01	0.002	O	|	|	|	0.02
29.750	0.00	0.00	0.002	O	|	|	|	0.02
29.833	0.00	0.00	0.001	O	|	|	|	0.02
29.917	0.00	0.00	0.001	O	|	|	|	0.02
30.000	0.00	0.00	0.001	O	|	|	|	0.02
30.083	0.00	0.00	0.001	O	|	|	|	0.02
30.167	0.00	0.00	0.001	O	|	|	|	0.02
30.250	0.00	0.00	0.001	O	|	|	|	0.02
30.333	0.00	0.00	0.001	O	|	|	|	0.02
30.417	0.00	0.00	0.001	O	|	|	|	0.02
30.500	0.00	0.00	0.001	O	|	|	|	0.02
30.583	0.00	0.00	0.001	O	|	|	|	0.02
30.667	0.00	0.00	0.001	O	|	|	|	0.02
30.750	0.00	0.00	0.001	O	|	|	|	0.02
30.833	0.00	0.00	0.001	O	|	|	|	0.02
30.917	0.00	0.00	0.001	O	|	|	|	0.02
31.000	0.00	0.00	0.001	O	|	|	|	0.02
31.083	0.00	0.00	0.001	O	|	|	|	0.02
31.167	0.00	0.00	0.001	O	|	|	|	0.01
31.250	0.00	0.00	0.001	O	|	|	|	0.01
31.333	0.00	0.00	0.001	O	|	|	|	0.01
31.417	0.00	0.00	0.001	O	|	|	|	0.01
31.500	0.00	0.00	0.001	O	|	|	|	0.01
31.583	0.00	0.00	0.001	O	|	|	|	0.01
31.667	0.00	0.00	0.001	O	|	|	|	0.01
31.750	0.00	0.00	0.001	O	|	|	|	0.01
31.833	0.00	0.00	0.001	O	|	|	|	0.01
31.917	0.00	0.00	0.001	O	|	|	|	0.01
32.000	0.00	0.00	0.001	O	|	|	|	0.01
32.083	0.00	0.00	0.001	O	|	|	|	0.01
32.167	0.00	0.00	0.001	O	|	|	|	0.01
32.250	0.00	0.00	0.001	O	|	|	|	0.01
32.333	0.00	0.00	0.001	O	|	|	|	0.01
32.417	0.00	0.00	0.001	O	|	|	|	0.01
32.500	0.00	0.00	0.001	O	|	|	|	0.01
32.583	0.00	0.00	0.001	O	|	|	|	0.01
32.667	0.00	0.00	0.001	O	|	|	|	0.01
32.750	0.00	0.00	0.001	O	|	|	|	0.01
32.833	0.00	0.00	0.001	O	|	|	|	0.01
32.917	0.00	0.00	0.001	O	|	|	|	0.01
33.000	0.00	0.00	0.001	O	|	|	|	0.01
33.083	0.00	0.00	0.001	O	|	|	|	0.01
33.167	0.00	0.00	0.001	O	|	|	|	0.01
33.250	0.00	0.00	0.001	O	|	|	|	0.01
33.333	0.00	0.00	0.001	O	|	|	|	0.01
33.417	0.00	0.00	0.001	O	|	|	|	0.01
33.500	0.00	0.00	0.001	O	|	|	|	0.01
33.583	0.00	0.00	0.001	O	|	|	|	0.01
33.667	0.00	0.00	0.001	O	|	|	|	0.01
33.750	0.00	0.00	0.001	O	|	|	|	0.01
33.833	0.00	0.00	0.000	O	|	|	|	0.01
33.917	0.00	0.00	0.000	O	|	|	|	0.01

34.000	0.00	0.00	0.000	O	|	|	|	|	0.01
34.083	0.00	0.00	0.000	O	|	|	|	|	0.01
34.167	0.00	0.00	0.000	O	|	|	|	|	0.01
34.250	0.00	0.00	0.000	O	|	|	|	|	0.01
34.333	0.00	0.00	0.000	O	|	|	|	|	0.01
34.417	0.00	0.00	0.000	O	|	|	|	|	0.01
34.500	0.00	0.00	0.000	O	|	|	|	|	0.01
34.583	0.00	0.00	0.000	O	|	|	|	|	0.01
34.667	0.00	0.00	0.000	O	|	|	|	|	0.01
34.750	0.00	0.00	0.000	O	|	|	|	|	0.01
34.833	0.00	0.00	0.000	O	|	|	|	|	0.01
34.917	0.00	0.00	0.000	O	|	|	|	|	0.01
35.000	0.00	0.00	0.000	O	|	|	|	|	0.01
35.083	0.00	0.00	0.000	O	|	|	|	|	0.01
35.167	0.00	0.00	0.000	O	|	|	|	|	0.00
35.250	0.00	0.00	0.000	O	|	|	|	|	0.00
35.333	0.00	0.00	0.000	O	|	|	|	|	0.00
35.417	0.00	0.00	0.000	O	|	|	|	|	0.00
35.500	0.00	0.00	0.000	O	|	|	|	|	0.00
35.583	0.00	0.00	0.000	O	|	|	|	|	0.00
35.667	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 428
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 3.541 (CFS)
Total volume = 0.780 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
100-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 72
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 9.413 (CFS)
Total volume = 1.058 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****
_____

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 72
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0 2.4 4.71 7.06 9.41	Depth (Ft.)
0.083	0.72	0.01	0.002	O I	0.03
0.167	0.86	0.03	0.008	O I	0.11
0.250	0.86	0.04	0.013	O I	0.19
0.333	0.86	0.06	0.019	O I	0.27
0.417	0.86	0.08	0.024	O I	0.35
0.500	1.00	0.10	0.030	O I	0.43
0.583	1.00	0.12	0.036	O I	0.52
0.667	1.00	0.14	0.042	O I	0.60
0.750	1.00	0.16	0.048	O I	0.69
0.833	1.00	0.18	0.054	O I	0.77
0.917	1.00	0.20	0.060	O I	0.85
1.000	1.14	0.22	0.066	O I	0.94
1.083	1.14	0.23	0.072	O I	1.02
1.167	1.14	0.23	0.078	O I	1.09
1.250	1.14	0.23	0.085	O I	1.16
1.333	1.14	0.23	0.091	O I	1.22
1.417	1.14	0.23	0.097	O I	1.29
1.500	1.14	0.23	0.103	O I	1.36
1.583	1.14	0.23	0.110	O I	1.43
1.667	1.14	0.23	0.116	O I	1.49
1.750	1.14	0.23	0.122	O I	1.56
1.833	1.14	0.23	0.129	O I	1.63
1.917	1.14	0.23	0.135	O I	1.70
2.000	1.29	0.23	0.142	O I	1.77
2.083	1.14	0.23	0.149	O I	1.84
2.167	1.29	0.23	0.155	O I	1.92
2.250	1.29	0.23	0.163	O I	2.00
2.333	1.29	0.23	0.170	O I	2.06
2.417	1.29	0.23	0.177	O I	2.13
2.500	1.29	0.23	0.184	O I	2.20
2.583	1.29	0.23	0.192	O I	2.27
2.667	1.29	0.23	0.199	O I	2.34
2.750	1.43	0.23	0.207	O I	2.41
2.833	1.43	0.23	0.215	O I	2.49
2.917	1.43	0.23	0.223	O I	2.57
3.000	1.43	0.23	0.232	O I	2.65
3.083	1.43	0.23	0.240	O I	2.73
3.167	1.57	0.23	0.249	O I	2.81
3.250	1.57	0.23	0.258	O I	2.90
3.333	1.57	0.23	0.267	O I	2.98
3.417	1.73	0.36	0.277	O I	3.07
3.500	1.91	0.53	0.286	O I	3.15
3.583	2.08	0.69	0.296	O I	3.24
3.667	2.08	0.85	0.305	O I	3.32
3.750	2.26	1.00	0.313	O I	3.40
3.833	2.26	1.14	0.321	O I	3.48
3.917	2.43	1.28	0.329	O I	3.55

4.000	2.43	1.41	0.337	| O I | | |				3.61
4.083	2.61	1.54	0.344	| O I | | |				3.68
4.167	2.78	1.67	0.351	| O |I | | |				3.75
4.250	2.96	1.80	0.359	| O | I | | |				3.82
4.333	3.13	1.94	0.367	| O | I | | |				3.89
4.417	3.30	2.09	0.375	| O| I | | |				3.97
4.500	3.30	2.19	0.383	| O| I | | |				4.04
4.583	3.48	2.26	0.392	| O| I | | |				4.12
4.667	3.65	2.33	0.400	| O| I | | |				4.20
4.750	3.83	2.41	0.410	| O I | | |				4.29
4.833	3.83	2.50	0.419	| O I | | |				4.38
4.917	4.00	2.58	0.429	| O I | | |				4.46
5.000	4.18	2.66	0.439	| O I | | |				4.56
5.083	5.05	2.78	0.452	| O |I | | |				4.68
5.167	5.92	2.93	0.470	| O | I | |				4.85
5.250	6.45	3.11	0.492	| O | I | |				5.06
5.333	6.97	3.29	0.516	| O | I| |				5.32
5.417	7.84	3.50	0.543	| O | | I |				5.62
5.500	9.41	3.75	0.578	| O | | I|				5.99
5.583	2.96	3.89	0.594	| I O | | |				6.22
5.667	1.29	3.79	0.582	| I | O | | |				6.05
5.750	0.86	3.65	0.564	I | O | | |				5.84
5.833	0.72	3.51	0.545	I | O | | |				5.63
5.917	0.43	3.36	0.525	I | O | | |				5.42
6.000	0.29	3.21	0.505	I | O | | |				5.21
6.083	0.00	3.06	0.484	I | O | | |				4.99
6.167	0.00	2.88	0.464	I |O | | |				4.79
6.250	0.00	2.72	0.445	I |O | | |				4.61
6.333	0.00	2.56	0.427	I O | | |				4.44
6.417	0.00	2.41	0.409	I O | | |				4.28
6.500	0.00	2.27	0.393	I O| | |				4.13
6.583	0.00	2.14	0.378	I O| | |				3.99
6.667	0.00	1.89	0.364	I O | | |				3.87
6.750	0.00	1.68	0.352	I O | | |				3.75
6.833	0.00	1.49	0.341	I O | | |				3.66
6.917	0.00	1.32	0.331	I O | | |				3.57
7.000	0.00	1.17	0.323	I O | | |				3.49
7.083	0.00	1.04	0.315	I O | | |				3.42
7.167	0.00	0.92	0.309	I O | | |				3.36
7.250	0.00	0.82	0.303	I O | | |				3.30
7.333	0.00	0.72	0.297	I O | | |				3.26
7.417	0.00	0.64	0.293	I O | | |				3.21
7.500	0.00	0.57	0.288	IO | | |				3.18
7.583	0.00	0.50	0.285	IO | | |				3.14
7.667	0.00	0.45	0.281	IO | | |				3.11
7.750	0.00	0.40	0.279	IO | | |				3.09
7.833	0.00	0.35	0.276	IO | | |				3.06
7.917	0.00	0.31	0.274	IO | | |				3.04
8.000	0.00	0.28	0.272	O | | |				3.02
8.083	0.00	0.24	0.270	O | | |				3.01
8.167	0.00	0.23	0.268	O | | |				2.99
8.250	0.00	0.23	0.267	O | | |				2.98
8.333	0.00	0.23	0.265	O | | |				2.96
8.417	0.00	0.23	0.263	O | | |				2.95
8.500	0.00	0.23	0.262	O | | |				2.93
8.583	0.00	0.23	0.260	O | | |				2.92
8.667	0.00	0.23	0.259	O | | |				2.90
8.750	0.00	0.23	0.257	O | | |				2.89
8.833	0.00	0.23	0.256	O | | |				2.87
8.917	0.00	0.23	0.254	O | | |				2.86

9.000	0.00	0.23	0.252	O					2.84
9.083	0.00	0.23	0.251	O					2.83
9.167	0.00	0.23	0.249	O					2.81
9.250	0.00	0.23	0.248	O					2.80
9.333	0.00	0.23	0.246	O					2.78
9.417	0.00	0.23	0.244	O					2.77
9.500	0.00	0.23	0.243	O					2.75
9.583	0.00	0.23	0.241	O					2.74
9.667	0.00	0.23	0.240	O					2.72
9.750	0.00	0.23	0.238	O					2.71
9.833	0.00	0.23	0.237	O					2.69
9.917	0.00	0.23	0.235	O					2.68
10.000	0.00	0.23	0.233	O					2.66
10.083	0.00	0.23	0.232	O					2.65
10.167	0.00	0.23	0.230	O					2.63
10.250	0.00	0.23	0.229	O					2.62
10.333	0.00	0.23	0.227	O					2.60
10.417	0.00	0.23	0.225	O					2.59
10.500	0.00	0.23	0.224	O					2.57
10.583	0.00	0.23	0.222	O					2.56
10.667	0.00	0.23	0.221	O					2.54
10.750	0.00	0.23	0.219	O					2.53
10.833	0.00	0.23	0.218	O					2.51
10.917	0.00	0.23	0.216	O					2.50
11.000	0.00	0.23	0.214	O					2.48
11.083	0.00	0.23	0.213	O					2.47
11.167	0.00	0.23	0.211	O					2.45
11.250	0.00	0.23	0.210	O					2.44
11.333	0.00	0.23	0.208	O					2.42
11.417	0.00	0.23	0.206	O					2.41
11.500	0.00	0.23	0.205	O					2.39
11.583	0.00	0.23	0.203	O					2.38
11.667	0.00	0.23	0.202	O					2.36
11.750	0.00	0.23	0.200	O					2.35
11.833	0.00	0.23	0.199	O					2.34
11.917	0.00	0.23	0.197	O					2.32
12.000	0.00	0.23	0.195	O					2.31
12.083	0.00	0.23	0.194	O					2.29
12.167	0.00	0.23	0.192	O					2.28
12.250	0.00	0.23	0.191	O					2.26
12.333	0.00	0.23	0.189	O					2.25
12.417	0.00	0.23	0.187	O					2.23
12.500	0.00	0.23	0.186	O					2.22
12.583	0.00	0.23	0.184	O					2.20
12.667	0.00	0.23	0.183	O					2.19
12.750	0.00	0.23	0.181	O					2.17
12.833	0.00	0.23	0.180	O					2.16
12.917	0.00	0.23	0.178	O					2.14
13.000	0.00	0.23	0.176	O					2.13
13.083	0.00	0.23	0.175	O					2.11
13.167	0.00	0.23	0.173	O					2.10
13.250	0.00	0.23	0.172	O					2.08
13.333	0.00	0.23	0.170	O					2.07
13.417	0.00	0.23	0.168	O					2.05
13.500	0.00	0.23	0.167	O					2.04
13.583	0.00	0.23	0.165	O					2.02
13.667	0.00	0.23	0.164	O					2.01
13.750	0.00	0.23	0.162	O					1.99
13.833	0.00	0.23	0.160	O					1.97
13.917	0.00	0.23	0.159	O					1.96

14.000	0.00	0.23	0.157	O				1.94
14.083	0.00	0.23	0.156	O				1.92
14.167	0.00	0.23	0.154	O				1.90
14.250	0.00	0.23	0.153	O				1.89
14.333	0.00	0.23	0.151	O				1.87
14.417	0.00	0.23	0.149	O				1.85
14.500	0.00	0.23	0.148	O				1.84
14.583	0.00	0.23	0.146	O				1.82
14.667	0.00	0.23	0.145	O				1.80
14.750	0.00	0.23	0.143	O				1.79
14.833	0.00	0.23	0.141	O				1.77
14.917	0.00	0.23	0.140	O				1.75
15.000	0.00	0.23	0.138	O				1.73
15.083	0.00	0.23	0.137	O				1.72
15.167	0.00	0.23	0.135	O				1.70
15.250	0.00	0.23	0.134	O				1.68
15.333	0.00	0.23	0.132	O				1.67
15.417	0.00	0.23	0.130	O				1.65
15.500	0.00	0.23	0.129	O				1.63
15.583	0.00	0.23	0.127	O				1.62
15.667	0.00	0.23	0.126	O				1.60
15.750	0.00	0.23	0.124	O				1.58
15.833	0.00	0.23	0.122	O				1.56
15.917	0.00	0.23	0.121	O				1.55
16.000	0.00	0.23	0.119	O				1.53
16.083	0.00	0.23	0.118	O				1.51
16.167	0.00	0.23	0.116	O				1.50
16.250	0.00	0.23	0.115	O				1.48
16.333	0.00	0.23	0.113	O				1.46
16.417	0.00	0.23	0.111	O				1.45
16.500	0.00	0.23	0.110	O				1.43
16.583	0.00	0.23	0.108	O				1.41
16.667	0.00	0.23	0.107	O				1.39
16.750	0.00	0.23	0.105	O				1.38
16.833	0.00	0.23	0.103	O				1.36
16.917	0.00	0.23	0.102	O				1.34
17.000	0.00	0.23	0.100	O				1.33
17.083	0.00	0.23	0.099	O				1.31
17.167	0.00	0.23	0.097	O				1.29
17.250	0.00	0.23	0.096	O				1.27
17.333	0.00	0.23	0.094	O				1.26
17.417	0.00	0.23	0.092	O				1.24
17.500	0.00	0.23	0.091	O				1.22
17.583	0.00	0.23	0.089	O				1.21
17.667	0.00	0.23	0.088	O				1.19
17.750	0.00	0.23	0.086	O				1.17
17.833	0.00	0.23	0.084	O				1.16
17.917	0.00	0.23	0.083	O				1.14
18.000	0.00	0.23	0.081	O				1.12
18.083	0.00	0.23	0.080	O				1.10
18.167	0.00	0.23	0.078	O				1.09
18.250	0.00	0.23	0.077	O				1.07
18.333	0.00	0.23	0.075	O				1.05
18.417	0.00	0.23	0.073	O				1.04
18.500	0.00	0.23	0.072	O				1.02
18.583	0.00	0.23	0.070	O				1.00
18.667	0.00	0.23	0.069	O				0.98
18.750	0.00	0.22	0.067	O				0.96
18.833	0.00	0.22	0.066	O				0.94
18.917	0.00	0.21	0.064	O				0.92

19.000	0.00	0.21	0.063	O	|	|	|	0.90
19.083	0.00	0.20	0.061	O	|	|	|	0.88
19.167	0.00	0.20	0.060	O	|	|	|	0.86
19.250	0.00	0.19	0.059	O	|	|	|	0.84
19.333	0.00	0.19	0.057	O	|	|	|	0.82
19.417	0.00	0.18	0.056	O	|	|	|	0.80
19.500	0.00	0.18	0.055	O	|	|	|	0.78
19.583	0.00	0.18	0.054	O	|	|	|	0.76
19.667	0.00	0.17	0.052	O	|	|	|	0.75
19.750	0.00	0.17	0.051	O	|	|	|	0.73
19.833	0.00	0.16	0.050	O	|	|	|	0.71
19.917	0.00	0.16	0.049	O	|	|	|	0.70
20.000	0.00	0.16	0.048	O	|	|	|	0.68
20.083	0.00	0.15	0.047	O	|	|	|	0.67
20.167	0.00	0.15	0.046	O	|	|	|	0.65
20.250	0.00	0.15	0.045	O	|	|	|	0.64
20.333	0.00	0.14	0.044	O	|	|	|	0.62
20.417	0.00	0.14	0.043	O	|	|	|	0.61
20.500	0.00	0.14	0.042	O	|	|	|	0.60
20.583	0.00	0.13	0.041	O	|	|	|	0.58
20.667	0.00	0.13	0.040	O	|	|	|	0.57
20.750	0.00	0.13	0.039	O	|	|	|	0.56
20.833	0.00	0.13	0.038	O	|	|	|	0.54
20.917	0.00	0.12	0.037	O	|	|	|	0.53
21.000	0.00	0.12	0.036	O	|	|	|	0.52
21.083	0.00	0.12	0.036	O	|	|	|	0.51
21.167	0.00	0.11	0.035	O	|	|	|	0.50
21.250	0.00	0.11	0.034	O	|	|	|	0.49
21.333	0.00	0.11	0.033	O	|	|	|	0.48
21.417	0.00	0.11	0.033	O	|	|	|	0.46
21.500	0.00	0.10	0.032	O	|	|	|	0.45
21.583	0.00	0.10	0.031	O	|	|	|	0.44
21.667	0.00	0.10	0.030	O	|	|	|	0.43
21.750	0.00	0.10	0.030	O	|	|	|	0.42
21.833	0.00	0.10	0.029	O	|	|	|	0.41
21.917	0.00	0.09	0.028	O	|	|	|	0.41
22.000	0.00	0.09	0.028	O	|	|	|	0.40
22.083	0.00	0.09	0.027	O	|	|	|	0.39
22.167	0.00	0.09	0.027	O	|	|	|	0.38
22.250	0.00	0.09	0.026	O	|	|	|	0.37
22.333	0.00	0.08	0.025	O	|	|	|	0.36
22.417	0.00	0.08	0.025	O	|	|	|	0.35
22.500	0.00	0.08	0.024	O	|	|	|	0.35
22.583	0.00	0.08	0.024	O	|	|	|	0.34
22.667	0.00	0.08	0.023	O	|	|	|	0.33
22.750	0.00	0.07	0.023	O	|	|	|	0.32
22.833	0.00	0.07	0.022	O	|	|	|	0.32
22.917	0.00	0.07	0.022	O	|	|	|	0.31
23.000	0.00	0.07	0.021	O	|	|	|	0.30
23.083	0.00	0.07	0.021	O	|	|	|	0.30
23.167	0.00	0.07	0.020	O	|	|	|	0.29
23.250	0.00	0.06	0.020	O	|	|	|	0.28
23.333	0.00	0.06	0.019	O	|	|	|	0.28
23.417	0.00	0.06	0.019	O	|	|	|	0.27
23.500	0.00	0.06	0.018	O	|	|	|	0.26
23.583	0.00	0.06	0.018	O	|	|	|	0.26
23.667	0.00	0.06	0.018	O	|	|	|	0.25
23.750	0.00	0.06	0.017	O	|	|	|	0.25
23.833	0.00	0.06	0.017	O	|	|	|	0.24
23.917	0.00	0.05	0.016	O	|	|	|	0.24

24.000	0.00	0.05	0.016	O	|	|	|	0.23
24.083	0.00	0.05	0.016	O	|	|	|	0.23
24.167	0.00	0.05	0.015	O	|	|	|	0.22
24.250	0.00	0.05	0.015	O	|	|	|	0.22
24.333	0.00	0.05	0.015	O	|	|	|	0.21
24.417	0.00	0.05	0.014	O	|	|	|	0.21
24.500	0.00	0.05	0.014	O	|	|	|	0.20
24.583	0.00	0.05	0.014	O	|	|	|	0.20
24.667	0.00	0.04	0.013	O	|	|	|	0.19
24.750	0.00	0.04	0.013	O	|	|	|	0.19
24.833	0.00	0.04	0.013	O	|	|	|	0.18
24.917	0.00	0.04	0.013	O	|	|	|	0.18
25.000	0.00	0.04	0.012	O	|	|	|	0.18
25.083	0.00	0.04	0.012	O	|	|	|	0.17
25.167	0.00	0.04	0.012	O	|	|	|	0.17
25.250	0.00	0.04	0.011	O	|	|	|	0.16
25.333	0.00	0.04	0.011	O	|	|	|	0.16
25.417	0.00	0.04	0.011	O	|	|	|	0.16
25.500	0.00	0.04	0.011	O	|	|	|	0.15
25.583	0.00	0.03	0.010	O	|	|	|	0.15
25.667	0.00	0.03	0.010	O	|	|	|	0.15
25.750	0.00	0.03	0.010	O	|	|	|	0.14
25.833	0.00	0.03	0.010	O	|	|	|	0.14
25.917	0.00	0.03	0.010	O	|	|	|	0.14
26.000	0.00	0.03	0.009	O	|	|	|	0.13
26.083	0.00	0.03	0.009	O	|	|	|	0.13
26.167	0.00	0.03	0.009	O	|	|	|	0.13
26.250	0.00	0.03	0.009	O	|	|	|	0.13
26.333	0.00	0.03	0.009	O	|	|	|	0.12
26.417	0.00	0.03	0.008	O	|	|	|	0.12
26.500	0.00	0.03	0.008	O	|	|	|	0.12
26.583	0.00	0.03	0.008	O	|	|	|	0.11
26.667	0.00	0.03	0.008	O	|	|	|	0.11
26.750	0.00	0.03	0.008	O	|	|	|	0.11
26.833	0.00	0.02	0.007	O	|	|	|	0.11
26.917	0.00	0.02	0.007	O	|	|	|	0.10
27.000	0.00	0.02	0.007	O	|	|	|	0.10
27.083	0.00	0.02	0.007	O	|	|	|	0.10
27.167	0.00	0.02	0.007	O	|	|	|	0.10
27.250	0.00	0.02	0.007	O	|	|	|	0.10
27.333	0.00	0.02	0.007	O	|	|	|	0.09
27.417	0.00	0.02	0.006	O	|	|	|	0.09
27.500	0.00	0.02	0.006	O	|	|	|	0.09
27.583	0.00	0.02	0.006	O	|	|	|	0.09
27.667	0.00	0.02	0.006	O	|	|	|	0.09
27.750	0.00	0.02	0.006	O	|	|	|	0.08
27.833	0.00	0.02	0.006	O	|	|	|	0.08
27.917	0.00	0.02	0.006	O	|	|	|	0.08
28.000	0.00	0.02	0.005	O	|	|	|	0.08
28.083	0.00	0.02	0.005	O	|	|	|	0.08
28.167	0.00	0.02	0.005	O	|	|	|	0.07
28.250	0.00	0.02	0.005	O	|	|	|	0.07
28.333	0.00	0.02	0.005	O	|	|	|	0.07
28.417	0.00	0.02	0.005	O	|	|	|	0.07
28.500	0.00	0.02	0.005	O	|	|	|	0.07
28.583	0.00	0.02	0.005	O	|	|	|	0.07
28.667	0.00	0.01	0.005	O	|	|	|	0.06
28.750	0.00	0.01	0.004	O	|	|	|	0.06
28.833	0.00	0.01	0.004	O	|	|	|	0.06
28.917	0.00	0.01	0.004	O	|	|	|	0.06

29.000	0.00	0.01	0.004	O	|	|	|	0.06
29.083	0.00	0.01	0.004	O	|	|	|	0.06
29.167	0.00	0.01	0.004	O	|	|	|	0.06
29.250	0.00	0.01	0.004	O	|	|	|	0.06
29.333	0.00	0.01	0.004	O	|	|	|	0.05
29.417	0.00	0.01	0.004	O	|	|	|	0.05
29.500	0.00	0.01	0.004	O	|	|	|	0.05
29.583	0.00	0.01	0.004	O	|	|	|	0.05
29.667	0.00	0.01	0.003	O	|	|	|	0.05
29.750	0.00	0.01	0.003	O	|	|	|	0.05
29.833	0.00	0.01	0.003	O	|	|	|	0.05
29.917	0.00	0.01	0.003	O	|	|	|	0.05
30.000	0.00	0.01	0.003	O	|	|	|	0.05
30.083	0.00	0.01	0.003	O	|	|	|	0.04
30.167	0.00	0.01	0.003	O	|	|	|	0.04
30.250	0.00	0.01	0.003	O	|	|	|	0.04
30.333	0.00	0.01	0.003	O	|	|	|	0.04
30.417	0.00	0.01	0.003	O	|	|	|	0.04
30.500	0.00	0.01	0.003	O	|	|	|	0.04
30.583	0.00	0.01	0.003	O	|	|	|	0.04
30.667	0.00	0.01	0.003	O	|	|	|	0.04
30.750	0.00	0.01	0.003	O	|	|	|	0.04
30.833	0.00	0.01	0.003	O	|	|	|	0.04
30.917	0.00	0.01	0.002	O	|	|	|	0.04
31.000	0.00	0.01	0.002	O	|	|	|	0.03
31.083	0.00	0.01	0.002	O	|	|	|	0.03
31.167	0.00	0.01	0.002	O	|	|	|	0.03
31.250	0.00	0.01	0.002	O	|	|	|	0.03
31.333	0.00	0.01	0.002	O	|	|	|	0.03
31.417	0.00	0.01	0.002	O	|	|	|	0.03
31.500	0.00	0.01	0.002	O	|	|	|	0.03
31.583	0.00	0.01	0.002	O	|	|	|	0.03
31.667	0.00	0.01	0.002	O	|	|	|	0.03
31.750	0.00	0.01	0.002	O	|	|	|	0.03
31.833	0.00	0.01	0.002	O	|	|	|	0.03
31.917	0.00	0.01	0.002	O	|	|	|	0.03
32.000	0.00	0.01	0.002	O	|	|	|	0.03
32.083	0.00	0.01	0.002	O	|	|	|	0.03
32.167	0.00	0.01	0.002	O	|	|	|	0.03
32.250	0.00	0.01	0.002	O	|	|	|	0.02
32.333	0.00	0.01	0.002	O	|	|	|	0.02
32.417	0.00	0.01	0.002	O	|	|	|	0.02
32.500	0.00	0.01	0.002	O	|	|	|	0.02
32.583	0.00	0.01	0.002	O	|	|	|	0.02
32.667	0.00	0.01	0.002	O	|	|	|	0.02
32.750	0.00	0.00	0.001	O	|	|	|	0.02
32.833	0.00	0.00	0.001	O	|	|	|	0.02
32.917	0.00	0.00	0.001	O	|	|	|	0.02
33.000	0.00	0.00	0.001	O	|	|	|	0.02
33.083	0.00	0.00	0.001	O	|	|	|	0.02
33.167	0.00	0.00	0.001	O	|	|	|	0.02
33.250	0.00	0.00	0.001	O	|	|	|	0.02
33.333	0.00	0.00	0.001	O	|	|	|	0.02
33.417	0.00	0.00	0.001	O	|	|	|	0.02
33.500	0.00	0.00	0.001	O	|	|	|	0.02
33.583	0.00	0.00	0.001	O	|	|	|	0.02
33.667	0.00	0.00	0.001	O	|	|	|	0.02
33.750	0.00	0.00	0.001	O	|	|	|	0.02
33.833	0.00	0.00	0.001	O	|	|	|	0.02
33.917	0.00	0.00	0.001	O	|	|	|	0.02

34.000	0.00	0.00	0.001	O	|	|	|	|	0.02
34.083	0.00	0.00	0.001	O	|	|	|	|	0.01
34.167	0.00	0.00	0.001	O	|	|	|	|	0.01
34.250	0.00	0.00	0.001	O	|	|	|	|	0.01
34.333	0.00	0.00	0.001	O	|	|	|	|	0.01
34.417	0.00	0.00	0.001	O	|	|	|	|	0.01
34.500	0.00	0.00	0.001	O	|	|	|	|	0.01
34.583	0.00	0.00	0.001	O	|	|	|	|	0.01
34.667	0.00	0.00	0.001	O	|	|	|	|	0.01
34.750	0.00	0.00	0.001	O	|	|	|	|	0.01
34.833	0.00	0.00	0.001	O	|	|	|	|	0.01
34.917	0.00	0.00	0.001	O	|	|	|	|	0.01
35.000	0.00	0.00	0.001	O	|	|	|	|	0.01
35.083	0.00	0.00	0.001	O	|	|	|	|	0.01
35.167	0.00	0.00	0.001	O	|	|	|	|	0.01
35.250	0.00	0.00	0.001	O	|	|	|	|	0.01
35.333	0.00	0.00	0.001	O	|	|	|	|	0.01
35.417	0.00	0.00	0.001	O	|	|	|	|	0.01
35.500	0.00	0.00	0.001	O	|	|	|	|	0.01
35.583	0.00	0.00	0.001	O	|	|	|	|	0.01
35.667	0.00	0.00	0.001	O	|	|	|	|	0.01
35.750	0.00	0.00	0.001	O	|	|	|	|	0.01
35.833	0.00	0.00	0.001	O	|	|	|	|	0.01
35.917	0.00	0.00	0.001	O	|	|	|	|	0.01
36.000	0.00	0.00	0.001	O	|	|	|	|	0.01
36.083	0.00	0.00	0.001	O	|	|	|	|	0.01
36.167	0.00	0.00	0.001	O	|	|	|	|	0.01
36.250	0.00	0.00	0.001	O	|	|	|	|	0.01
36.333	0.00	0.00	0.001	O	|	|	|	|	0.01
36.417	0.00	0.00	0.001	O	|	|	|	|	0.01
36.500	0.00	0.00	0.001	O	|	|	|	|	0.01
36.583	0.00	0.00	0.001	O	|	|	|	|	0.01
36.667	0.00	0.00	0.001	O	|	|	|	|	0.01
36.750	0.00	0.00	0.001	O	|	|	|	|	0.01
36.833	0.00	0.00	0.000	O	|	|	|	|	0.01
36.917	0.00	0.00	0.000	O	|	|	|	|	0.01
37.000	0.00	0.00	0.000	O	|	|	|	|	0.01
37.083	0.00	0.00	0.000	O	|	|	|	|	0.01
37.167	0.00	0.00	0.000	O	|	|	|	|	0.01
37.250	0.00	0.00	0.000	O	|	|	|	|	0.01
37.333	0.00	0.00	0.000	O	|	|	|	|	0.01
37.417	0.00	0.00	0.000	O	|	|	|	|	0.01
37.500	0.00	0.00	0.000	O	|	|	|	|	0.01
37.583	0.00	0.00	0.000	O	|	|	|	|	0.01
37.667	0.00	0.00	0.000	O	|	|	|	|	0.01
37.750	0.00	0.00	0.000	O	|	|	|	|	0.01
37.833	0.00	0.00	0.000	O	|	|	|	|	0.01
37.917	0.00	0.00	0.000	O	|	|	|	|	0.01
38.000	0.00	0.00	0.000	O	|	|	|	|	0.01
38.083	0.00	0.00	0.000	O	|	|	|	|	0.01
38.167	0.00	0.00	0.000	O	|	|	|	|	0.00
38.250	0.00	0.00	0.000	O	|	|	|	|	0.00
38.333	0.00	0.00	0.000	O	|	|	|	|	0.00
38.417	0.00	0.00	0.000	O	|	|	|	|	0.00
38.500	0.00	0.00	0.000	O	|	|	|	|	0.00
38.583	0.00	0.00	0.000	O	|	|	|	|	0.00
38.667	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 464

```
            Time interval =    5.0 (Min.)
            Maximum/Peak flow rate =        3.886 (CFS)
            Total volume =       1.058 (Ac.Ft)
      Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
      Peak (CFS)      0.000     0.000     0.000     0.000     0.000
      Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
****************************************************************************

----------------------------------------------------------------------
```

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
Study date: 05/31/24

MENIFEE PROJECT
100-YR

Program License Serial Number 6094

********** HYDROGRAPH INFORMATION **********

From study/file name: MENDEV.rte
**********HYDROGRAPH DATA**********
Number of intervals = 288
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.856 (CFS)
Total volume = 1.620 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 12.000 to Point/Station 12.000
**** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 288
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.230	0.069	0.071
2.000	0.163	0.230	0.162	0.164
3.000	0.269	0.230	0.268	0.270

4.000	0.379	2.150	0.372	0.386
5.000	0.486	3.070	0.475	0.497
6.000	0.579	3.760	0.566	0.592
7.000	0.649	4.340	0.634	0.664
8.000	0.719	4.850	0.702	0.736

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.7	1.43	2.14	2.86	Depth (Ft.)
0.083	0.15	0.00	0.001	OI	|	|	|	|	0.01
0.167	0.15	0.01	0.002	OI	|	|	|	|	0.02
0.250	0.15	0.01	0.003	OI	|	|	|	|	0.04
0.333	0.23	0.01	0.004	O I	|	|	|	|	0.05
0.417	0.23	0.02	0.005	O I	|	|	|	|	0.08
0.500	0.23	0.02	0.007	O I	|	|	|	|	0.10
0.583	0.23	0.03	0.008	O I	|	|	|	|	0.12
0.667	0.23	0.03	0.009	O I	|	|	|	|	0.14
0.750	0.23	0.04	0.011	O I	|	|	|	|	0.15
0.833	0.31	0.04	0.012	O I	|	|	|	|	0.18
0.917	0.31	0.05	0.014	O I	|	|	|	|	0.20
1.000	0.31	0.05	0.016	O I	|	|	|	|	0.23
1.083	0.23	0.06	0.017	O I	|	|	|	|	0.25
1.167	0.23	0.06	0.019	O I	|	|	|	|	0.27
1.250	0.23	0.06	0.020	O I	|	|	|	|	0.28
1.333	0.23	0.07	0.021	O I	|	|	|	|	0.30
1.417	0.23	0.07	0.022	O I	|	|	|	|	0.31
1.500	0.23	0.08	0.023	O I	|	|	|	|	0.33
1.583	0.23	0.08	0.024	O I	|	|	|	|	0.34
1.667	0.23	0.08	0.025	O I	|	|	|	|	0.36
1.750	0.23	0.09	0.026	O I	|	|	|	|	0.37
1.833	0.31	0.09	0.027	|O I	|	|	|	|	0.39
1.917	0.31	0.09	0.029	|O I	|	|	|	|	0.41
2.000	0.31	0.10	0.030	|O I	|	|	|	|	0.43
2.083	0.31	0.10	0.032	|O I	|	|	|	|	0.45
2.167	0.31	0.11	0.033	|O I	|	|	|	|	0.47
2.250	0.31	0.11	0.034	|O I	|	|	|	|	0.49
2.333	0.31	0.12	0.036	|O I	|	|	|	|	0.51
2.417	0.31	0.12	0.037	|O I	|	|	|	|	0.53
2.500	0.31	0.13	0.038	|O I	|	|	|	|	0.55
2.583	0.38	0.13	0.040	|O I	|	|	|	|	0.57
2.667	0.38	0.14	0.041	|O I	|	|	|	|	0.59
2.750	0.38	0.14	0.043	|O I	|	|	|	|	0.62
2.833	0.38	0.15	0.045	|O I	|	|	|	|	0.64
2.917	0.38	0.15	0.046	|O I	|	|	|	|	0.66
3.000	0.38	0.16	0.048	|O I	|	|	|	|	0.68
3.083	0.38	0.16	0.049	|O I	|	|	|	|	0.71
3.167	0.38	0.17	0.051	|O I	|	|	|	|	0.73
3.250	0.38	0.17	0.052	|O I	|	|	|	|	0.75
3.333	0.38	0.18	0.054	|O I	|	|	|	|	0.77
3.417	0.38	0.18	0.055	| O I	|	|	|	|	0.79
3.500	0.38	0.19	0.057	| O I	|	|	|	|	0.81
3.583	0.38	0.19	0.058	| O I	|	|	|	|	0.83
3.667	0.38	0.19	0.059	| O I	|	|	|	|	0.85
3.750	0.38	0.20	0.060	| O I	|	|	|	|	0.86
3.833	0.46	0.20	0.062	| O I	|	|	|	|	0.89
3.917	0.46	0.21	0.064	| O I	|	|	|	|	0.91

4.000	0.46	0.21	0.065	O I				0.93
4.083	0.46	0.22	0.067	O I				0.96
4.167	0.46	0.23	0.069	O I				0.98
4.250	0.46	0.23	0.070	O I				1.00
4.333	0.53	0.23	0.072	O I				1.02
4.417	0.53	0.23	0.074	O I				1.04
4.500	0.53	0.23	0.076	O I				1.07
4.583	0.53	0.23	0.078	O I				1.09
4.667	0.53	0.23	0.080	O I				1.11
4.750	0.53	0.23	0.083	O I				1.13
4.833	0.61	0.23	0.085	O I				1.16
4.917	0.61	0.23	0.088	O I				1.19
5.000	0.61	0.23	0.090	O I				1.22
5.083	0.46	0.23	0.092	O I				1.24
5.167	0.46	0.23	0.094	O I				1.26
5.250	0.46	0.23	0.095	O I				1.27
5.333	0.53	0.23	0.097	O I				1.29
5.417	0.53	0.23	0.099	O I				1.32
5.500	0.53	0.23	0.101	O I				1.34
5.583	0.61	0.23	0.104	O I				1.36
5.667	0.61	0.23	0.106	O I				1.39
5.750	0.61	0.23	0.109	O I				1.42
5.833	0.61	0.23	0.112	O I				1.45
5.917	0.61	0.23	0.114	O I				1.48
6.000	0.61	0.23	0.117	O I				1.50
6.083	0.69	0.23	0.120	O I				1.54
6.167	0.69	0.23	0.123	O I				1.57
6.250	0.69	0.23	0.126	O I				1.60
6.333	0.69	0.23	0.129	O I				1.64
6.417	0.69	0.23	0.132	O I				1.67
6.500	0.69	0.23	0.136	O I				1.70
6.583	0.76	0.23	0.139	O I				1.74
6.667	0.76	0.23	0.143	O I				1.78
6.750	0.76	0.23	0.146	O I				1.82
6.833	0.76	0.23	0.150	O I				1.86
6.917	0.76	0.23	0.154	O I				1.90
7.000	0.76	0.23	0.157	O I				1.94
7.083	0.76	0.23	0.161	O I				1.98
7.167	0.76	0.23	0.165	O I				2.02
7.250	0.76	0.23	0.168	O I				2.05
7.333	0.84	0.23	0.172	O I				2.09
7.417	0.84	0.23	0.176	O I				2.13
7.500	0.84	0.23	0.181	O I				2.17
7.583	0.92	0.23	0.185	O I				2.21
7.667	0.92	0.23	0.190	O I				2.25
7.750	0.92	0.23	0.195	O I				2.30
7.833	0.99	0.23	0.200	O I				2.34
7.917	0.99	0.23	0.205	O I				2.39
8.000	0.99	0.23	0.210	O I				2.44
8.083	1.14	0.23	0.216	O I				2.50
8.167	1.14	0.23	0.222	O I				2.56
8.250	1.14	0.23	0.228	O I				2.62
8.333	1.14	0.23	0.235	O I				2.68
8.417	1.14	0.23	0.241	O I				2.74
8.500	1.14	0.23	0.247	O I				2.80
8.583	1.22	0.23	0.254	O I				2.86
8.667	1.22	0.23	0.261	O I				2.92
8.750	1.22	0.23	0.268	O I				2.99
8.833	1.30	0.32	0.274	O I				3.05
8.917	1.30	0.43	0.281	O I				3.11

9.000	1.30	0.53	0.286	| O |	I |	|	|	3.16
9.083	1.45	0.63	0.292	| O|	I	|	|	3.21
9.167	1.45	0.72	0.297	| O	I	|	|	3.26
9.250	1.45	0.80	0.302	| O	I	|	|	3.30
9.333	1.53	0.88	0.306	| |O	|I	|	|	3.34
9.417	1.53	0.95	0.310	| | O	|I	|	|	3.38
9.500	1.53	1.02	0.314	| | O	|I	|	|	3.41
9.583	1.60	1.08	0.318	| | O	|I	|	|	3.44
9.667	1.60	1.14	0.321	| | O	|I	|	|	3.47
9.750	1.60	1.19	0.324	| | O	|I	|	|	3.50
9.833	1.68	1.24	0.327	| | O	| I	|	|	3.53
9.917	1.68	1.29	0.330	| | O	| I	|	|	3.55
10.000	1.68	1.34	0.332	| | O	| I	|	|	3.58
10.083	1.14	1.35	0.333	| | I	O|	|	|	3.58
10.167	1.14	1.32	0.332	| | I	O |	|	|	3.57
10.250	1.14	1.30	0.330	| | I	O |	|	|	3.56
10.333	1.14	1.28	0.329	| | I	O |	|	|	3.55
10.417	1.14	1.27	0.329	| | I	O |	|	|	3.54
10.500	1.14	1.25	0.328	| | I	O |	|	|	3.53
10.583	1.53	1.26	0.328	| |	O |I	|	|	3.54
10.667	1.53	1.29	0.330	| |	O |I	|	|	3.55
10.750	1.53	1.32	0.331	| |	O |I	|	|	3.57
10.833	1.53	1.34	0.333	| |	O|I	|	|	3.58
10.917	1.53	1.36	0.334	| |	O|I	|	|	3.59
11.000	1.53	1.38	0.335	| |	O|I	|	|	3.60
11.083	1.45	1.39	0.336	| |	OI	|	|	3.61
11.167	1.45	1.40	0.336	| |	OI	|	|	3.61
11.250	1.45	1.41	0.336	| |	OI	|	|	3.61
11.333	1.45	1.41	0.337	| |	OI	|	|	3.62
11.417	1.45	1.42	0.337	| |	OI	|	|	3.62
11.500	1.45	1.42	0.337	| |	OI	|	|	3.62
11.583	1.30	1.41	0.337	| |	IO|	|	|	3.62
11.667	1.30	1.40	0.336	| |	IO|	|	|	3.61
11.750	1.30	1.39	0.335	| |	IO|	|	|	3.60
11.833	1.37	1.38	0.335	| |	O|	|	|	3.60
11.917	1.37	1.38	0.335	| |	O|	|	|	3.60
12.000	1.37	1.38	0.335	| |	O|	|	|	3.60
12.083	1.99	1.42	0.337	| |	O|	I |	|	3.62
12.167	1.99	1.48	0.341	| |	O	I |	|	3.65
12.250	1.99	1.54	0.344	| |	|O	I |	|	3.68
12.333	2.09	1.60	0.347	| |	|O	I|	|	3.71
12.417	2.09	1.65	0.350	| |	| O	I|	|	3.74
12.500	2.09	1.70	0.353	| |	| O	I|	|	3.77
12.583	2.28	1.76	0.356	| |	| O	|I	|	3.80
12.667	2.28	1.82	0.360	| |	| O	|I	|	3.83
12.750	2.28	1.87	0.363	| |	| O	|I	|	3.85
12.833	2.38	1.92	0.366	| |	| O	| I	|	3.88
12.917	2.38	1.97	0.369	| |	| O	| I	|	3.91
13.000	2.38	2.02	0.371	| |	| O	| I	|	3.93
13.083	2.85	2.09	0.375	| |	| O|	I|	3.97
13.167	2.85	2.16	0.380	| |	| O	I|	4.01
13.250	2.85	2.20	0.385	| |	| O	I|	4.06
13.333	2.85	2.24	0.389	| |	| |O	I|	4.10
13.417	2.85	2.27	0.393	| |	| |O	I|	4.13
13.500	2.86	2.31	0.397	| |	| |O	I	4.17
13.583	1.83	2.31	0.398	| |	| I	|O	|	4.17
13.667	1.83	2.28	0.394	| |	| I	|O	|	4.14
13.750	1.84	2.26	0.391	| |	| I	|O	|	4.12
13.833	1.84	2.23	0.389	| |	| I	|O	|	4.09
13.917	1.84	2.21	0.386	| |	| I	O	|	4.06

14.000	1.84	2.19	0.383	|	|	| I O |		4.04
14.083	2.22	2.18	0.382	|	|	| O |		4.03
14.167	2.22	2.18	0.383	|	|	| O |		4.03
14.250	2.22	2.18	0.383	|	|	| O |		4.04
14.333	2.13	2.18	0.383	|	|	| IO |		4.04
14.417	2.13	2.18	0.382	|	|	| IO |		4.03
14.500	2.13	2.18	0.382	|	|	| IO |		4.03
14.583	2.13	2.17	0.382	|	|	| IO |		4.03
14.667	2.13	2.17	0.382	|	|	| IO |		4.02
14.750	2.13	2.17	0.381	|	|	| IO |		4.02
14.833	2.04	2.16	0.381	|	|	| I O |		4.02
14.917	2.04	2.16	0.380	|	|	| I O |		4.01
15.000	2.05	2.15	0.379	|	|	| I O |		4.00
15.083	1.95	2.14	0.378	|	|	| I O|		3.99
15.167	1.96	2.11	0.377	|	|	| I O|		3.98
15.250	1.96	2.10	0.376	|	|	| I O|		3.97
15.333	1.86	2.08	0.375	|	|	| I O|		3.96
15.417	1.87	2.05	0.373	|	|	| I O |		3.95
15.500	1.87	2.03	0.372	|	|	| I O |		3.94
15.583	1.50	1.99	0.370	|	| I O |		3.92
15.667	1.50	1.94	0.367	|	| I O |		3.89
15.750	1.50	1.89	0.364	|	| I O |		3.86
15.833	1.50	1.84	0.361	|	| I O |		3.84
15.917	1.50	1.80	0.359	|	| I O |		3.82
16.000	1.50	1.77	0.357	|	| I O |		3.80
16.083	0.31	1.67	0.352	| I |	| O |		3.75
16.167	0.31	1.52	0.343	| I |	O |		3.67
16.250	0.31	1.38	0.335	| I | O|		3.60
16.333	0.31	1.26	0.328	| I | O |		3.54
16.417	0.31	1.15	0.322	| I | O |		3.48
16.500	0.31	1.05	0.316	| I | O |		3.43
16.583	0.23	0.96	0.311	| I | O |		3.38
16.667	0.23	0.88	0.306	| I |O |		3.34
16.750	0.23	0.81	0.302	| I |O |		3.30
16.833	0.23	0.74	0.298	| I O |		3.27
16.917	0.23	0.68	0.295	| I O|		3.24
17.000	0.23	0.63	0.292	| I O|		3.21
17.083	0.38	0.59	0.290	| I O |		3.19
17.167	0.38	0.57	0.289	| I O |		3.18
17.250	0.38	0.55	0.287	| I O |		3.17
17.333	0.38	0.53	0.286	| IO |		3.16
17.417	0.38	0.51	0.285	| IO |		3.15
17.500	0.38	0.50	0.284	| IO |		3.14
17.583	0.38	0.49	0.284	| IO |		3.13
17.667	0.38	0.47	0.283	| IO |		3.13
17.750	0.38	0.46	0.282	| IO |		3.12
17.833	0.31	0.45	0.282	| I O |		3.11
17.917	0.31	0.43	0.281	| IO |		3.11
18.000	0.31	0.42	0.280	| IO |		3.10
18.083	0.31	0.41	0.279	| IO |		3.09
18.167	0.31	0.39	0.278	| IO |		3.09
18.250	0.31	0.38	0.278	| IO |		3.08
18.333	0.31	0.38	0.277	| IO |		3.08
18.417	0.31	0.37	0.277	| IO |		3.07
18.500	0.31	0.36	0.276	| IO |		3.07
18.583	0.23	0.35	0.276	| IO |		3.06
18.667	0.23	0.34	0.275	| IO |		3.06
18.750	0.23	0.32	0.274	| IO |		3.05
18.833	0.15	0.31	0.274	|I O |		3.04
18.917	0.15	0.29	0.273	|I O |		3.03

19.000	0.15	0.28	0.272	I O				3.02
19.083	0.23	0.27	0.271	O				3.02
19.167	0.23	0.26	0.271	O				3.02
19.250	0.23	0.26	0.271	O				3.01
19.333	0.31	0.26	0.271	OI				3.02
19.417	0.31	0.26	0.271	OI				3.02
19.500	0.31	0.27	0.271	O				3.02
19.583	0.23	0.27	0.271	IO				3.02
19.667	0.23	0.26	0.271	O				3.02
19.750	0.23	0.26	0.271	O				3.02
19.833	0.15	0.25	0.270	IO				3.01
19.917	0.15	0.24	0.270	IO				3.01
20.000	0.15	0.23	0.269	IO				3.00
20.083	0.23	0.23	0.269	O				3.00
20.167	0.23	0.23	0.269	O				3.00
20.250	0.23	0.23	0.269	O				3.00
20.333	0.23	0.23	0.269	O				3.00
20.417	0.23	0.23	0.269	O				3.00
20.500	0.23	0.23	0.269	O				3.00
20.583	0.23	0.23	0.269	O				3.00
20.667	0.23	0.23	0.269	O				3.00
20.750	0.23	0.23	0.269	O				3.00
20.833	0.15	0.23	0.268	IO				2.99
20.917	0.15	0.23	0.268	IO				2.99
21.000	0.15	0.23	0.267	IO				2.98
21.083	0.23	0.23	0.267	O				2.98
21.167	0.23	0.23	0.267	O				2.98
21.250	0.23	0.23	0.267	O				2.98
21.333	0.15	0.23	0.267	IO				2.98
21.417	0.15	0.23	0.266	IO				2.97
21.500	0.15	0.23	0.266	IO				2.97
21.583	0.23	0.23	0.266	O				2.97
21.667	0.23	0.23	0.266	O				2.97
21.750	0.23	0.23	0.265	O				2.97
21.833	0.15	0.23	0.265	IO				2.96
21.917	0.15	0.23	0.265	IO				2.96
22.000	0.15	0.23	0.264	IO				2.95
22.083	0.23	0.23	0.264	O				2.95
22.167	0.23	0.23	0.264	O				2.95
22.250	0.23	0.23	0.264	O				2.95
22.333	0.15	0.23	0.264	IO				2.95
22.417	0.15	0.23	0.263	IO				2.94
22.500	0.15	0.23	0.263	IO				2.94
22.583	0.15	0.23	0.262	IO				2.93
22.667	0.15	0.23	0.261	IO				2.93
22.750	0.15	0.23	0.261	IO				2.92
22.833	0.15	0.23	0.260	IO				2.92
22.917	0.15	0.23	0.260	IO				2.91
23.000	0.15	0.23	0.259	IO				2.91
23.083	0.15	0.23	0.259	IO				2.90
23.167	0.15	0.23	0.258	IO				2.90
23.250	0.15	0.23	0.258	IO				2.89
23.333	0.15	0.23	0.257	IO				2.89
23.417	0.15	0.23	0.257	IO				2.88
23.500	0.15	0.23	0.256	IO				2.88
23.583	0.15	0.23	0.256	IO				2.87
23.667	0.15	0.23	0.255	IO				2.87
23.750	0.15	0.23	0.255	IO				2.86
23.833	0.15	0.23	0.254	IO				2.86
23.917	0.15	0.23	0.253	IO				2.85

24.000	0.15	0.23	0.253	|IO	|	|	|	2.85
24.083	0.00	0.23	0.252	I O	|	|	|	2.84
24.167	0.00	0.23	0.250	I O	|	|	|	2.82
24.250	0.00	0.23	0.249	I O	|	|	|	2.81
24.333	0.00	0.23	0.247	I O	|	|	|	2.79
24.417	0.00	0.23	0.246	I O	|	|	|	2.78
24.500	0.00	0.23	0.244	I O	|	|	|	2.76
24.583	0.00	0.23	0.242	I O	|	|	|	2.75
24.667	0.00	0.23	0.241	I O	|	|	|	2.73
24.750	0.00	0.23	0.239	I O	|	|	|	2.72
24.833	0.00	0.23	0.238	I O	|	|	|	2.70
24.917	0.00	0.23	0.236	I O	|	|	|	2.69
25.000	0.00	0.23	0.234	I O	|	|	|	2.67
25.083	0.00	0.23	0.233	I O	|	|	|	2.66
25.167	0.00	0.23	0.231	I O	|	|	|	2.64
25.250	0.00	0.23	0.230	I O	|	|	|	2.63
25.333	0.00	0.23	0.228	I O	|	|	|	2.61
25.417	0.00	0.23	0.227	I O	|	|	|	2.60
25.500	0.00	0.23	0.225	I O	|	|	|	2.58
25.583	0.00	0.23	0.223	I O	|	|	|	2.57
25.667	0.00	0.23	0.222	I O	|	|	|	2.55
25.750	0.00	0.23	0.220	I O	|	|	|	2.54
25.833	0.00	0.23	0.219	I O	|	|	|	2.52
25.917	0.00	0.23	0.217	I O	|	|	|	2.51
26.000	0.00	0.23	0.215	I O	|	|	|	2.49
26.083	0.00	0.23	0.214	I O	|	|	|	2.48
26.167	0.00	0.23	0.212	I O	|	|	|	2.47
26.250	0.00	0.23	0.211	I O	|	|	|	2.45
26.333	0.00	0.23	0.209	I O	|	|	|	2.44
26.417	0.00	0.23	0.208	I O	|	|	|	2.42
26.500	0.00	0.23	0.206	I O	|	|	|	2.41
26.583	0.00	0.23	0.204	I O	|	|	|	2.39
26.667	0.00	0.23	0.203	I O	|	|	|	2.38
26.750	0.00	0.23	0.201	I O	|	|	|	2.36
26.833	0.00	0.23	0.200	I O	|	|	|	2.35
26.917	0.00	0.23	0.198	I O	|	|	|	2.33
27.000	0.00	0.23	0.196	I O	|	|	|	2.32
27.083	0.00	0.23	0.195	I O	|	|	|	2.30
27.167	0.00	0.23	0.193	I O	|	|	|	2.29
27.250	0.00	0.23	0.192	I O	|	|	|	2.27
27.333	0.00	0.23	0.190	I O	|	|	|	2.26
27.417	0.00	0.23	0.189	I O	|	|	|	2.24
27.500	0.00	0.23	0.187	I O	|	|	|	2.23
27.583	0.00	0.23	0.185	I O	|	|	|	2.21
27.667	0.00	0.23	0.184	I O	|	|	|	2.20
27.750	0.00	0.23	0.182	I O	|	|	|	2.18
27.833	0.00	0.23	0.181	I O	|	|	|	2.17
27.917	0.00	0.23	0.179	I O	|	|	|	2.15
28.000	0.00	0.23	0.177	I O	|	|	|	2.14
28.083	0.00	0.23	0.176	I O	|	|	|	2.12
28.167	0.00	0.23	0.174	I O	|	|	|	2.11
28.250	0.00	0.23	0.173	I O	|	|	|	2.09
28.333	0.00	0.23	0.171	I O	|	|	|	2.08
28.417	0.00	0.23	0.170	I O	|	|	|	2.06
28.500	0.00	0.23	0.168	I O	|	|	|	2.05
28.583	0.00	0.23	0.166	I O	|	|	|	2.03
28.667	0.00	0.23	0.165	I O	|	|	|	2.02
28.750	0.00	0.23	0.163	I O	|	|	|	2.00
28.833	0.00	0.23	0.162	I O	|	|	|	1.99
28.917	0.00	0.23	0.160	I O	|	|	|	1.97

29.000	0.00	0.23	0.158	I	O	|	|	|	|	1.95
29.083	0.00	0.23	0.157	I	O	|	|	|	|	1.93
29.167	0.00	0.23	0.155	I	O	|	|	|	|	1.92
29.250	0.00	0.23	0.154	I	O	|	|	|	|	1.90
29.333	0.00	0.23	0.152	I	O	|	|	|	|	1.88
29.417	0.00	0.23	0.151	I	O	|	|	|	|	1.87
29.500	0.00	0.23	0.149	I	O	|	|	|	|	1.85
29.583	0.00	0.23	0.147	I	O	|	|	|	|	1.83
29.667	0.00	0.23	0.146	I	O	|	|	|	|	1.81
29.750	0.00	0.23	0.144	I	O	|	|	|	|	1.80
29.833	0.00	0.23	0.143	I	O	|	|	|	|	1.78
29.917	0.00	0.23	0.141	I	O	|	|	|	|	1.76
30.000	0.00	0.23	0.139	I	O	|	|	|	|	1.75
30.083	0.00	0.23	0.138	I	O	|	|	|	|	1.73
30.167	0.00	0.23	0.136	I	O	|	|	|	|	1.71
30.250	0.00	0.23	0.135	I	O	|	|	|	|	1.70
30.333	0.00	0.23	0.133	I	O	|	|	|	|	1.68
30.417	0.00	0.23	0.132	I	O	|	|	|	|	1.66
30.500	0.00	0.23	0.130	I	O	|	|	|	|	1.64
30.583	0.00	0.23	0.128	I	O	|	|	|	|	1.63
30.667	0.00	0.23	0.127	I	O	|	|	|	|	1.61
30.750	0.00	0.23	0.125	I	O	|	|	|	|	1.59
30.833	0.00	0.23	0.124	I	O	|	|	|	|	1.58
30.917	0.00	0.23	0.122	I	O	|	|	|	|	1.56
31.000	0.00	0.23	0.120	I	O	|	|	|	|	1.54
31.083	0.00	0.23	0.119	I	O	|	|	|	|	1.53
31.167	0.00	0.23	0.117	I	O	|	|	|	|	1.51
31.250	0.00	0.23	0.116	I	O	|	|	|	|	1.49
31.333	0.00	0.23	0.114	I	O	|	|	|	|	1.47
31.417	0.00	0.23	0.113	I	O	|	|	|	|	1.46
31.500	0.00	0.23	0.111	I	O	|	|	|	|	1.44
31.583	0.00	0.23	0.109	I	O	|	|	|	|	1.42
31.667	0.00	0.23	0.108	I	O	|	|	|	|	1.41
31.750	0.00	0.23	0.106	I	O	|	|	|	|	1.39
31.833	0.00	0.23	0.105	I	O	|	|	|	|	1.37
31.917	0.00	0.23	0.103	I	O	|	|	|	|	1.35
32.000	0.00	0.23	0.101	I	O	|	|	|	|	1.34
32.083	0.00	0.23	0.100	I	O	|	|	|	|	1.32
32.167	0.00	0.23	0.098	I	O	|	|	|	|	1.30
32.250	0.00	0.23	0.097	I	O	|	|	|	|	1.29
32.333	0.00	0.23	0.095	I	O	|	|	|	|	1.27
32.417	0.00	0.23	0.093	I	O	|	|	|	|	1.25
32.500	0.00	0.23	0.092	I	O	|	|	|	|	1.24
32.583	0.00	0.23	0.090	I	O	|	|	|	|	1.22
32.667	0.00	0.23	0.089	I	O	|	|	|	|	1.20
32.750	0.00	0.23	0.087	I	O	|	|	|	|	1.18
32.833	0.00	0.23	0.086	I	O	|	|	|	|	1.17
32.917	0.00	0.23	0.084	I	O	|	|	|	|	1.15
33.000	0.00	0.23	0.082	I	O	|	|	|	|	1.13
33.083	0.00	0.23	0.081	I	O	|	|	|	|	1.12
33.167	0.00	0.23	0.079	I	O	|	|	|	|	1.10
33.250	0.00	0.23	0.078	I	O	|	|	|	|	1.08
33.333	0.00	0.23	0.076	I	O	|	|	|	|	1.07
33.417	0.00	0.23	0.074	I	O	|	|	|	|	1.05
33.500	0.00	0.23	0.073	I	O	|	|	|	|	1.03
33.583	0.00	0.23	0.071	I	O	|	|	|	|	1.01
33.667	0.00	0.23	0.070	I	O	|	|	|	|	1.00
33.750	0.00	0.22	0.068	I	O	|	|	|	|	0.97
33.833	0.00	0.22	0.067	I	O	|	|	|	|	0.95
33.917	0.00	0.21	0.065	I	O	|	|	|	|	0.93

34.000	0.00	0.21	0.064	I O	|	|	|	0.91
34.083	0.00	0.20	0.062	I O	|	|	|	0.89
34.167	0.00	0.20	0.061	I O	|	|	|	0.87
34.250	0.00	0.20	0.060	I O	|	|	|	0.85
34.333	0.00	0.19	0.058	I O	|	|	|	0.83
34.417	0.00	0.19	0.057	I O	|	|	|	0.81
34.500	0.00	0.18	0.056	I O	|	|	|	0.79
34.583	0.00	0.18	0.054	I O	|	|	|	0.78
34.667	0.00	0.17	0.053	IO	|	|	|	0.76
34.750	0.00	0.17	0.052	IO	|	|	|	0.74
34.833	0.00	0.17	0.051	IO	|	|	|	0.73
34.917	0.00	0.16	0.050	IO	|	|	|	0.71
35.000	0.00	0.16	0.049	IO	|	|	|	0.69
35.083	0.00	0.16	0.047	IO	|	|	|	0.68
35.167	0.00	0.15	0.046	IO	|	|	|	0.66
35.250	0.00	0.15	0.045	IO	|	|	|	0.65
35.333	0.00	0.15	0.044	IO	|	|	|	0.63
35.417	0.00	0.14	0.043	IO	|	|	|	0.62
35.500	0.00	0.14	0.042	IO	|	|	|	0.61
35.583	0.00	0.14	0.041	IO	|	|	|	0.59
35.667	0.00	0.13	0.041	IO	|	|	|	0.58
35.750	0.00	0.13	0.040	IO	|	|	|	0.57
35.833	0.00	0.13	0.039	IO	|	|	|	0.55
35.917	0.00	0.12	0.038	IO	|	|	|	0.54
36.000	0.00	0.12	0.037	IO	|	|	|	0.53
36.083	0.00	0.12	0.036	IO	|	|	|	0.52
36.167	0.00	0.12	0.035	IO	|	|	|	0.51
36.250	0.00	0.11	0.035	IO	|	|	|	0.49
36.333	0.00	0.11	0.034	IO	|	|	|	0.48
36.417	0.00	0.11	0.033	IO	|	|	|	0.47
36.500	0.00	0.11	0.032	IO	|	|	|	0.46
36.583	0.00	0.10	0.032	IO	|	|	|	0.45
36.667	0.00	0.10	0.031	IO	|	|	|	0.44
36.750	0.00	0.10	0.030	IO	|	|	|	0.43
36.833	0.00	0.10	0.030	IO	|	|	|	0.42
36.917	0.00	0.09	0.029	IO	|	|	|	0.41
37.000	0.00	0.09	0.028	IO	|	|	|	0.40
37.083	0.00	0.09	0.028	IO	|	|	|	0.39
37.167	0.00	0.09	0.027	O	|	|	|	0.39
37.250	0.00	0.09	0.026	O	|	|	|	0.38
37.333	0.00	0.08	0.026	O	|	|	|	0.37
37.417	0.00	0.08	0.025	O	|	|	|	0.36
37.500	0.00	0.08	0.025	O	|	|	|	0.35
37.583	0.00	0.08	0.024	O	|	|	|	0.34
37.667	0.00	0.08	0.024	O	|	|	|	0.34
37.750	0.00	0.08	0.023	O	|	|	|	0.33
37.833	0.00	0.07	0.022	O	|	|	|	0.32
37.917	0.00	0.07	0.022	O	|	|	|	0.31
38.000	0.00	0.07	0.021	O	|	|	|	0.31
38.083	0.00	0.07	0.021	O	|	|	|	0.30
38.167	0.00	0.07	0.021	O	|	|	|	0.29
38.250	0.00	0.07	0.020	O	|	|	|	0.29
38.333	0.00	0.06	0.020	O	|	|	|	0.28
38.417	0.00	0.06	0.019	O	|	|	|	0.27
38.500	0.00	0.06	0.019	O	|	|	|	0.27
38.583	0.00	0.06	0.018	O	|	|	|	0.26
38.667	0.00	0.06	0.018	O	|	|	|	0.26
38.750	0.00	0.06	0.018	O	|	|	|	0.25
38.833	0.00	0.06	0.017	O	|	|	|	0.24
38.917	0.00	0.06	0.017	O	|	|	|	0.24

39.000	0.00	0.05	0.016	O	|	|	|	0.23
39.083	0.00	0.05	0.016	O	|	|	|	0.23
39.167	0.00	0.05	0.016	O	|	|	|	0.22
39.250	0.00	0.05	0.015	O	|	|	|	0.22
39.333	0.00	0.05	0.015	O	|	|	|	0.21
39.417	0.00	0.05	0.015	O	|	|	|	0.21
39.500	0.00	0.05	0.014	O	|	|	|	0.20
39.583	0.00	0.05	0.014	O	|	|	|	0.20
39.667	0.00	0.04	0.014	O	|	|	|	0.20
39.750	0.00	0.04	0.013	O	|	|	|	0.19
39.833	0.00	0.04	0.013	O	|	|	|	0.19
39.917	0.00	0.04	0.013	O	|	|	|	0.18
40.000	0.00	0.04	0.012	O	|	|	|	0.18
40.083	0.00	0.04	0.012	O	|	|	|	0.17
40.167	0.00	0.04	0.012	O	|	|	|	0.17
40.250	0.00	0.04	0.012	O	|	|	|	0.17
40.333	0.00	0.04	0.011	O	|	|	|	0.16
40.417	0.00	0.04	0.011	O	|	|	|	0.16
40.500	0.00	0.04	0.011	O	|	|	|	0.16
40.583	0.00	0.04	0.011	O	|	|	|	0.15
40.667	0.00	0.03	0.010	O	|	|	|	0.15
40.750	0.00	0.03	0.010	O	|	|	|	0.15
40.833	0.00	0.03	0.010	O	|	|	|	0.14
40.917	0.00	0.03	0.010	O	|	|	|	0.14
41.000	0.00	0.03	0.010	O	|	|	|	0.14
41.083	0.00	0.03	0.009	O	|	|	|	0.13
41.167	0.00	0.03	0.009	O	|	|	|	0.13
41.250	0.00	0.03	0.009	O	|	|	|	0.13
41.333	0.00	0.03	0.009	O	|	|	|	0.12
41.417	0.00	0.03	0.009	O	|	|	|	0.12
41.500	0.00	0.03	0.008	O	|	|	|	0.12
41.583	0.00	0.03	0.008	O	|	|	|	0.12
41.667	0.00	0.03	0.008	O	|	|	|	0.11
41.750	0.00	0.03	0.008	O	|	|	|	0.11
41.833	0.00	0.02	0.008	O	|	|	|	0.11
41.917	0.00	0.02	0.007	O	|	|	|	0.11
42.000	0.00	0.02	0.007	O	|	|	|	0.10
42.083	0.00	0.02	0.007	O	|	|	|	0.10
42.167	0.00	0.02	0.007	O	|	|	|	0.10
42.250	0.00	0.02	0.007	O	|	|	|	0.10
42.333	0.00	0.02	0.007	O	|	|	|	0.09
42.417	0.00	0.02	0.006	O	|	|	|	0.09
42.500	0.00	0.02	0.006	O	|	|	|	0.09
42.583	0.00	0.02	0.006	O	|	|	|	0.09
42.667	0.00	0.02	0.006	O	|	|	|	0.09
42.750	0.00	0.02	0.006	O	|	|	|	0.08
42.833	0.00	0.02	0.006	O	|	|	|	0.08
42.917	0.00	0.02	0.006	O	|	|	|	0.08
43.000	0.00	0.02	0.006	O	|	|	|	0.08
43.083	0.00	0.02	0.005	O	|	|	|	0.08
43.167	0.00	0.02	0.005	O	|	|	|	0.08
43.250	0.00	0.02	0.005	O	|	|	|	0.07
43.333	0.00	0.02	0.005	O	|	|	|	0.07
43.417	0.00	0.02	0.005	O	|	|	|	0.07
43.500	0.00	0.02	0.005	O	|	|	|	0.07
43.583	0.00	0.02	0.005	O	|	|	|	0.07
43.667	0.00	0.02	0.005	O	|	|	|	0.07
43.750	0.00	0.01	0.005	O	|	|	|	0.06
43.833	0.00	0.01	0.004	O	|	|	|	0.06
43.917	0.00	0.01	0.004	O	|	|	|	0.06

44.000	0.00	0.01	0.004	O	|	|	|	0.06
44.083	0.00	0.01	0.004	O	|	|	|	0.06
44.167	0.00	0.01	0.004	O	|	|	|	0.06
44.250	0.00	0.01	0.004	O	|	|	|	0.06
44.333	0.00	0.01	0.004	O	|	|	|	0.06
44.417	0.00	0.01	0.004	O	|	|	|	0.05
44.500	0.00	0.01	0.004	O	|	|	|	0.05
44.583	0.00	0.01	0.004	O	|	|	|	0.05
44.667	0.00	0.01	0.004	O	|	|	|	0.05
44.750	0.00	0.01	0.003	O	|	|	|	0.05
44.833	0.00	0.01	0.003	O	|	|	|	0.05
44.917	0.00	0.01	0.003	O	|	|	|	0.05
45.000	0.00	0.01	0.003	O	|	|	|	0.05
45.083	0.00	0.01	0.003	O	|	|	|	0.04
45.167	0.00	0.01	0.003	O	|	|	|	0.04
45.250	0.00	0.01	0.003	O	|	|	|	0.04
45.333	0.00	0.01	0.003	O	|	|	|	0.04
45.417	0.00	0.01	0.003	O	|	|	|	0.04
45.500	0.00	0.01	0.003	O	|	|	|	0.04
45.583	0.00	0.01	0.003	O	|	|	|	0.04
45.667	0.00	0.01	0.003	O	|	|	|	0.04
45.750	0.00	0.01	0.003	O	|	|	|	0.04
45.833	0.00	0.01	0.003	O	|	|	|	0.04
45.917	0.00	0.01	0.003	O	|	|	|	0.04
46.000	0.00	0.01	0.002	O	|	|	|	0.03
46.083	0.00	0.01	0.002	O	|	|	|	0.03
46.167	0.00	0.01	0.002	O	|	|	|	0.03
46.250	0.00	0.01	0.002	O	|	|	|	0.03
46.333	0.00	0.01	0.002	O	|	|	|	0.03
46.417	0.00	0.01	0.002	O	|	|	|	0.03
46.500	0.00	0.01	0.002	O	|	|	|	0.03
46.583	0.00	0.01	0.002	O	|	|	|	0.03
46.667	0.00	0.01	0.002	O	|	|	|	0.03
46.750	0.00	0.01	0.002	O	|	|	|	0.03
46.833	0.00	0.01	0.002	O	|	|	|	0.03
46.917	0.00	0.01	0.002	O	|	|	|	0.03
47.000	0.00	0.01	0.002	O	|	|	|	0.03
47.083	0.00	0.01	0.002	O	|	|	|	0.03
47.167	0.00	0.01	0.002	O	|	|	|	0.03
47.250	0.00	0.01	0.002	O	|	|	|	0.02
47.333	0.00	0.01	0.002	O	|	|	|	0.02
47.417	0.00	0.01	0.002	O	|	|	|	0.02
47.500	0.00	0.01	0.002	O	|	|	|	0.02
47.583	0.00	0.01	0.002	O	|	|	|	0.02
47.667	0.00	0.01	0.002	O	|	|	|	0.02
47.750	0.00	0.01	0.002	O	|	|	|	0.02
47.833	0.00	0.00	0.001	O	|	|	|	0.02
47.917	0.00	0.00	0.001	O	|	|	|	0.02
48.000	0.00	0.00	0.001	O	|	|	|	0.02
48.083	0.00	0.00	0.001	O	|	|	|	0.02
48.167	0.00	0.00	0.001	O	|	|	|	0.02
48.250	0.00	0.00	0.001	O	|	|	|	0.02
48.333	0.00	0.00	0.001	O	|	|	|	0.02
48.417	0.00	0.00	0.001	O	|	|	|	0.02
48.500	0.00	0.00	0.001	O	|	|	|	0.02
48.583	0.00	0.00	0.001	O	|	|	|	0.02
48.667	0.00	0.00	0.001	O	|	|	|	0.02
48.750	0.00	0.00	0.001	O	|	|	|	0.02
48.833	0.00	0.00	0.001	O	|	|	|	0.02
48.917	0.00	0.00	0.001	O	|	|	|	0.02

49.000	0.00	0.00	0.001	O	|	|	|	|	0.02
49.083	0.00	0.00	0.001	O	|	|	|	|	0.02
49.167	0.00	0.00	0.001	O	|	|	|	|	0.01
49.250	0.00	0.00	0.001	O	|	|	|	|	0.01
49.333	0.00	0.00	0.001	O	|	|	|	|	0.01
49.417	0.00	0.00	0.001	O	|	|	|	|	0.01
49.500	0.00	0.00	0.001	O	|	|	|	|	0.01
49.583	0.00	0.00	0.001	O	|	|	|	|	0.01
49.667	0.00	0.00	0.001	O	|	|	|	|	0.01
49.750	0.00	0.00	0.001	O	|	|	|	|	0.01
49.833	0.00	0.00	0.001	O	|	|	|	|	0.01
49.917	0.00	0.00	0.001	O	|	|	|	|	0.01
50.000	0.00	0.00	0.001	O	|	|	|	|	0.01
50.083	0.00	0.00	0.001	O	|	|	|	|	0.01
50.167	0.00	0.00	0.001	O	|	|	|	|	0.01
50.250	0.00	0.00	0.001	O	|	|	|	|	0.01
50.333	0.00	0.00	0.001	O	|	|	|	|	0.01
50.417	0.00	0.00	0.001	O	|	|	|	|	0.01
50.500	0.00	0.00	0.001	O	|	|	|	|	0.01
50.583	0.00	0.00	0.001	O	|	|	|	|	0.01
50.667	0.00	0.00	0.001	O	|	|	|	|	0.01
50.750	0.00	0.00	0.001	O	|	|	|	|	0.01
50.833	0.00	0.00	0.001	O	|	|	|	|	0.01
50.917	0.00	0.00	0.001	O	|	|	|	|	0.01
51.000	0.00	0.00	0.001	O	|	|	|	|	0.01
51.083	0.00	0.00	0.001	O	|	|	|	|	0.01
51.167	0.00	0.00	0.001	O	|	|	|	|	0.01
51.250	0.00	0.00	0.001	O	|	|	|	|	0.01
51.333	0.00	0.00	0.001	O	|	|	|	|	0.01
51.417	0.00	0.00	0.001	O	|	|	|	|	0.01
51.500	0.00	0.00	0.001	O	|	|	|	|	0.01
51.583	0.00	0.00	0.001	O	|	|	|	|	0.01
51.667	0.00	0.00	0.001	O	|	|	|	|	0.01
51.750	0.00	0.00	0.001	O	|	|	|	|	0.01
51.833	0.00	0.00	0.001	O	|	|	|	|	0.01
51.917	0.00	0.00	0.000	O	|	|	|	|	0.01
52.000	0.00	0.00	0.000	O	|	|	|	|	0.01
52.083	0.00	0.00	0.000	O	|	|	|	|	0.01
52.167	0.00	0.00	0.000	O	|	|	|	|	0.01
52.250	0.00	0.00	0.000	O	|	|	|	|	0.01
52.333	0.00	0.00	0.000	O	|	|	|	|	0.01
52.417	0.00	0.00	0.000	O	|	|	|	|	0.01
52.500	0.00	0.00	0.000	O	|	|	|	|	0.01
52.583	0.00	0.00	0.000	O	|	|	|	|	0.01
52.667	0.00	0.00	0.000	O	|	|	|	|	0.01
52.750	0.00	0.00	0.000	O	|	|	|	|	0.01
52.833	0.00	0.00	0.000	O	|	|	|	|	0.01
52.917	0.00	0.00	0.000	O	|	|	|	|	0.01
53.000	0.00	0.00	0.000	O	|	|	|	|	0.01
53.083	0.00	0.00	0.000	O	|	|	|	|	0.01
53.167	0.00	0.00	0.000	O	|	|	|	|	0.00
53.250	0.00	0.00	0.000	O	|	|	|	|	0.00
53.333	0.00	0.00	0.000	O	|	|	|	|	0.00
53.417	0.00	0.00	0.000	O	|	|	|	|	0.00
53.500	0.00	0.00	0.000	O	|	|	|	|	0.00
53.583	0.00	0.00	0.000	O	|	|	|	|	0.00
53.667	0.00	0.00	0.000	O	|	|	|	|	0.00
53.750	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

```
            Number of intervals =   645
            Time interval =    5.0 (Min.)
            Maximum/Peak flow rate =        2.310 (CFS)
            Total volume =       1.620 (Ac.Ft)
      Status of hydrographs being held in storage
                  Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
      Peak (CFS)      0.000     0.000     0.000     0.000     0.000
      Vol (Ac.Ft)      0.000     0.000     0.000     0.000     0.000
****************************************************************************

----------------------------------------------------------------------
```