DRAINAGE STUDY
TRACT 34271 (OFFSITE TO VERNON/RAMONA)

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SECTION 1 – PURPOSE/METHODOLOGY/RESULTS

PURPOSE

The purpose of this study is to analyze the 10-year, 3-hour and 24-hour storm flow events for the offsite area that is tributary to the intersection of Ramona Expressway and Vernon Avenue. The 3-hour and 24-hour storm flows will be routed through a detention basin to determine the mitigated storm flow. The mitigated storm flow will eliminate the need for MDP Line J-3 storm drain. Hydraulic calculations will determine if the proposed offsite channel is adequate.

METHODOLOGY

The 10-year, 3-hour and 24-hour storm flows are calculated by using the Unit Hydrograph Method described in the Riverside County Flood Control Hydrology Manual. The flows for areas are routed via the Modified PULS Method. The Hydraulics for the offsite concrete channel are analyzed using WSPG.

ASSUMPTIONS

Storm Event: 10-year, 3-hour and 24-hour
Antecedent Moisture Condition: AMC 2
Soil Type: B
Existing Condition Impervious: 5%
Manning "N" Value: 0.040
Length along longest Watercourse: 7,157’
Length along longest watercourse measured to centroid: 3,420’
Difference in elevation: 45’
Tributary Area: 175 acres

Rainfall Data (PER NOAA ATLAS 14)

Storm Event	3 HR	24 HR
2 Year	0.84”	2.07”
100 Year	2.32”	5.49”

RESULTS (UNIT HYDROGRAPH METHOD)

Storm Event	Existing Condition	Mitigated Flow	Difference Storm Flow Dev - Ex
$Q10_{\text{Year 3 Hour}}$	68.4 CFS	31.2 CFS	-37.3 CFS
$Q10_{\text{Year 24 Hour}}$	7.7 CFS	7.2 CFS	-0.5 CFS

The results of the drainage study show that the mitigated storm flows exiting the detention basin on the northeast side of the intersection of Ramona Expressway and Vernon Avenue are significantly reduced eliminating the need for MDP Line J-3 Storm Drain. The proposed offsite channel can convey 72.2 CFS which is greater than the actual flow of 31.2 CFS.

NOAA Atlas 14, Volume 6, Version 2
Location name: San Jacinto, California, USA*
Latitude: 33.8003°, Longitude: -116.9543°
Elevation: 1553.62 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.083** (0.070-0.101)	**0.113** (0.095-0.137)	**0.160** (0.133-0.194)	**0.204** (0.168-0.249)	**0.274** (0.218-0.347)	**0.337** (0.263-0.437)	**0.411** (0.313-0.547)	**0.499** (0.369-0.683)	**0.672** (0.475-0.960)	**0.899** (0.613-1.33)
10-min	**0.119** (0.100-0.144)	**0.163** (0.136-0.197)	**0.229** (0.190-0.278)	**0.292** (0.241-0.357)	**0.392** (0.313-0.497)	**0.484** (0.377-0.626)	**0.590** (0.448-0.784)	**0.716** (0.528-0.979)	**0.963** (0.681-1.38)	**1.29** (0.879-1.91)
15-min	**0.144** (0.121-0.175)	**0.197** (0.164-0.238)	**0.277** (0.230-0.336)	**0.353** (0.291-0.432)	**0.475** (0.378-0.602)	**0.585** (0.456-0.758)	**0.713** (0.542-0.948)	**0.866** (0.639-1.18)	**1.17** (0.824-1.66)	**1.56** (1.06-2.31)
30-min	**0.229** (0.192-0.277)	**0.312** (0.260-0.378)	**0.440** (0.366-0.534)	**0.561** (0.462-0.687)	**0.754** (0.601-0.956)	**0.929** (0.724-1.20)	**1.13** (0.861-1.51)	**1.38** (1.01-1.88)	**1.85** (1.31-2.64)	**2.48** (1.69-3.67)
60-min	**0.361** (0.302-0.437)	**0.492** (0.410-0.595)	**0.693** (0.576-0.841)	**0.883** (0.728-1.08)	**1.19** (0.946-1.51)	**1.46** (1.14-1.90)	**1.79** (1.36-2.37)	**2.17** (1.60-2.96)	**2.91** (2.06-4.16)	**3.90** (2.66-5.77)
2-hr	**0.547** (0.457-0.661)	**0.701** (0.585-0.849)	**0.932** (0.775-1.13)	**1.14** (0.943-1.40)	**1.47** (1.17-1.87)	**1.76** (1.37-2.28)	**2.09** (1.59-2.77)	**2.46** (1.82-3.37)	**3.04** (2.15-4.35)	**3.94** (2.69-5.83)
3-hr	**0.669** (0.559-0.809)	**0.842** (0.702-1.02)	**1.10** (0.912-1.33)	**1.33** (1.09-1.62)	**1.68** (1.34-2.13)	**1.98** (1.54-2.57)	**2.32** (1.76-3.08)	**2.71** (2.00-3.70)	**3.30** (2.33-4.71)	**3.98** (2.71-5.89)
6-hr	**0.938** (0.784-1.13)	**1.16** (0.969-1.41)	**1.48** (1.24-1.80)	**1.77** (1.46-2.17)	**2.20** (1.75-2.79)	**2.56** (2.00-3.32)	**2.97** (2.25-3.94)	**3.41** (2.52-4.67)	**4.08** (2.89-5.83)	**4.66** (3.18-6.89)
12-hr	**1.23** (1.03-1.48)	**1.53** (1.27-1.85)	**1.96** (1.63-2.38)	**2.34** (1.93-2.86)	**2.91** (2.32-3.68)	**3.38** (2.64-4.38)	**3.91** (2.97-5.19)	**4.49** (3.32-6.14)	**5.36** (3.79-7.65)	**6.09** (4.16-9.02)
24-hr	**1.63** (1.44-1.88)	**2.07** (1.83-2.38)	**2.69** (2.37-3.11)	**3.24** (2.83-3.78)	**4.06** (3.44-4.89)	**4.74** (3.94-5.83)	**5.49** (4.45-6.92)	**6.33** (4.99-8.19)	**7.56** (5.73-10.2)	**8.60** (6.30-12.0)
2-day	**2.00** (1.77-2.30)	**2.60** (2.30-3.01)	**3.45** (3.04-4.00)	**4.19** (3.66-4.89)	**5.26** (4.45-6.34)	**6.14** (5.09-7.55)	**7.09** (5.74-8.92)	**8.12** (6.40-10.5)	**9.62** (7.29-13.0)	**10.9** (7.96-15.1)
3-day	**2.20** (1.95-2.54)	**2.93** (2.59-3.38)	**3.93** (3.46-4.55)	**4.78** (4.18-5.58)	**6.02** (5.10-7.25)	**7.02** (5.83-8.63)	**8.09** (6.56-10.2)	**9.24** (7.29-12.0)	**10.9** (8.26-14.7)	**12.3** (8.98-17.1)
4-day	**2.35** (2.08-2.71)	**3.17** (2.80-3.66)	**4.29** (3.78-4.97)	**5.24** (4.58-6.12)	**6.61** (5.59-7.96)	**7.71** (6.40-9.48)	**8.87** (7.19-11.2)	**10.1** (7.99-13.1)	**11.9** (9.02-16.0)	**13.4** (9.79-18.6)
7-day	**2.64** (2.34-3.05)	**3.66** (3.24-4.23)	**5.05** (4.45-5.85)	**6.22** (5.44-7.26)	**7.89** (6.68-9.50)	**9.22** (7.65-11.3)	**10.6** (8.61-13.4)	**12.1** (9.56-15.7)	**14.2** (10.8-19.2)	**16.0** (11.7-22.2)
10-day	**2.87** (2.54-3.31)	**4.03** (3.56-4.65)	**5.60** (4.94-6.49)	**6.94** (6.07-8.09)	**8.82** (7.47-10.6)	**10.3** (8.57-12.7)	**11.9** (9.65-15.0)	**13.6** (10.7-17.6)	**16.0** (12.1-21.5)	**17.9** (13.1-24.9)
20-day	**3.55** (3.14-4.10)	**5.04** (4.46-5.83)	**7.07** (6.23-8.19)	**8.78** (7.68-10.2)	**11.2** (9.48-13.5)	**13.1** (10.9-16.1)	**15.2** (12.3-19.1)	**17.3** (13.7-22.4)	**20.4** (15.5-27.5)	**22.9** (16.8-31.9)
30-day	**4.17** (3.69-4.81)	**5.91** (5.22-6.83)	**8.28** (7.29-9.58)	**10.3** (8.99-12.0)	**13.1** (11.1-15.8)	**15.4** (12.8-18.9)	**17.8** (14.4-22.4)	**20.3** (16.0-26.3)	**24.0** (18.2-32.3)	**26.9** (19.7-37.5)
45-day	**4.99** (4.41-5.75)	**6.99** (6.18-8.08)	**9.74** (8.59-11.3)	**12.1** (10.6-14.1)	**15.4** (13.0-18.5)	**18.1** (15.0-22.2)	**20.9** (16.9-26.3)	**23.9** (18.9-31.0)	**28.3** (21.4-38.1)	**31.8** (23.3-44.3)
60-day	**5.82** (5.15-6.71)	**8.07** (7.14-9.32)	**11.2** (9.85-12.9)	**13.8** (12.1-16.1)	**17.6** (14.9-21.2)	**20.6** (17.1-25.4)	**23.9** (19.4-30.1)	**27.4** (21.6-35.5)	**32.5** (24.6-43.7)	**36.6** (26.8-51.0)

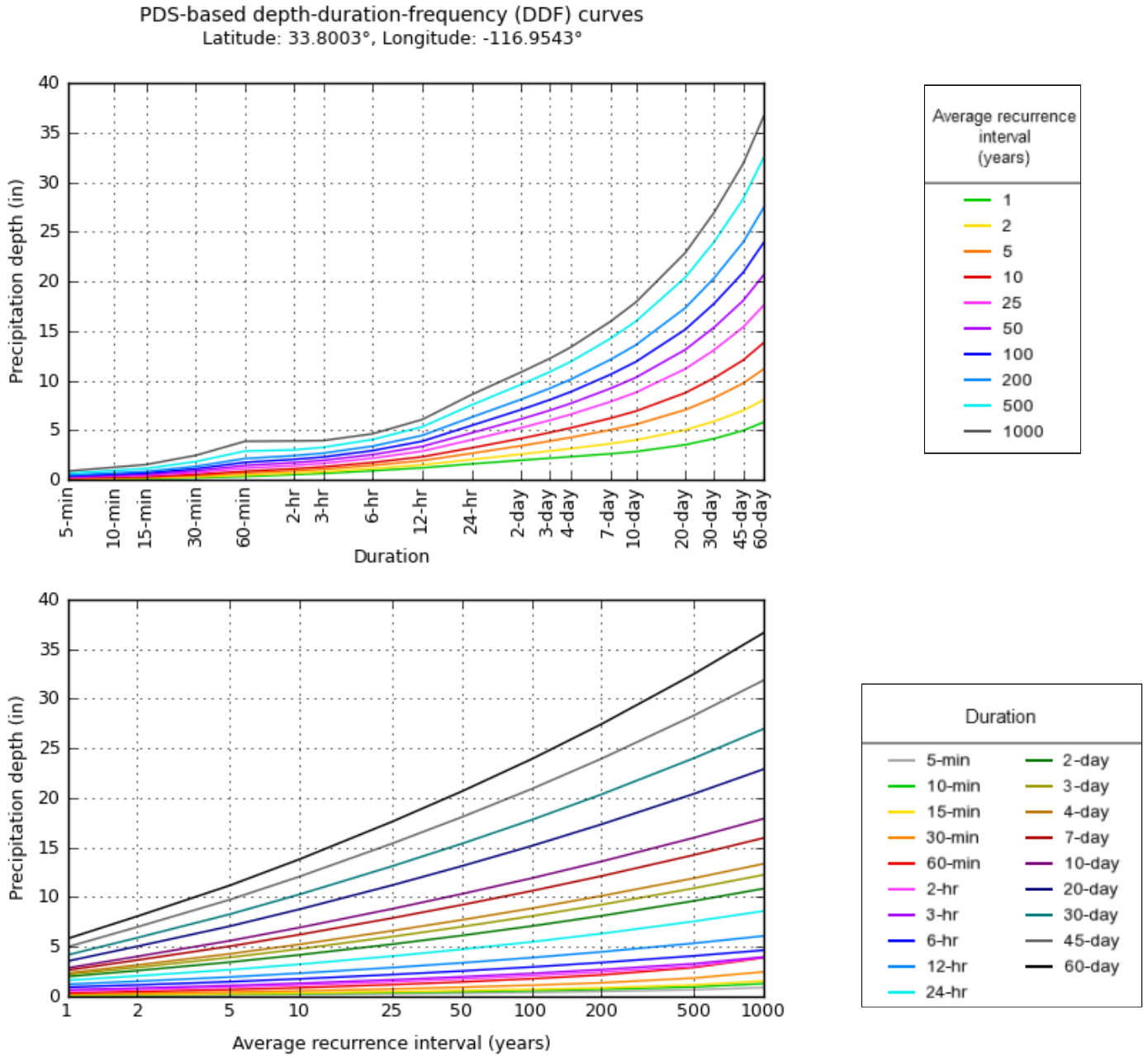
[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical



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Maps & aerials

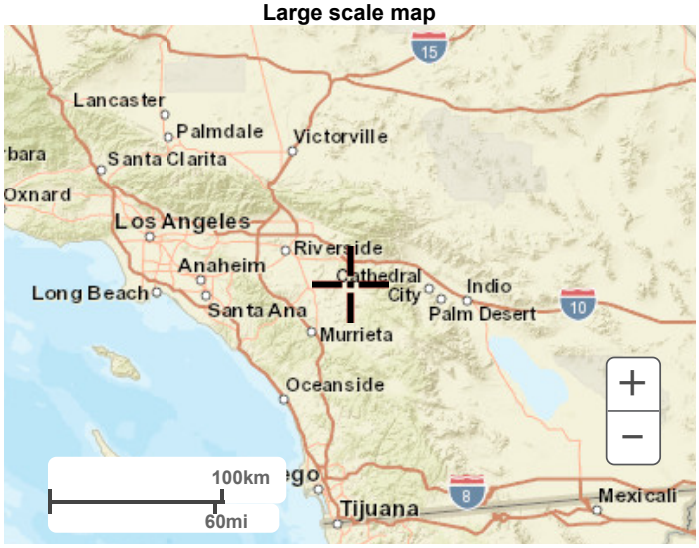
Small scale terrain



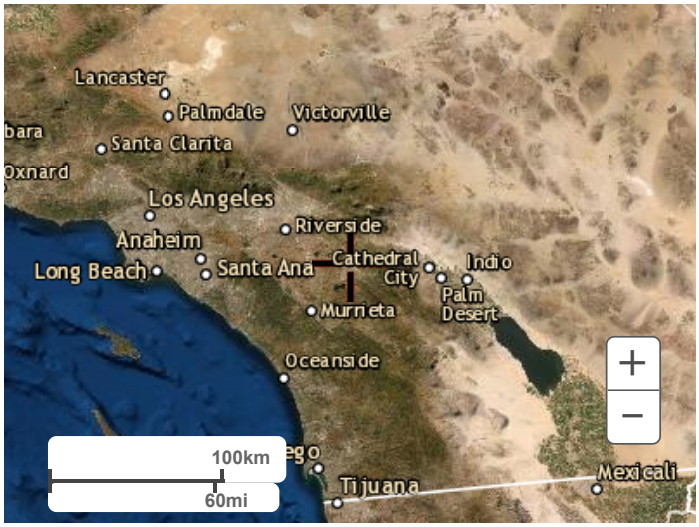
Large scale terrain



Large scale map



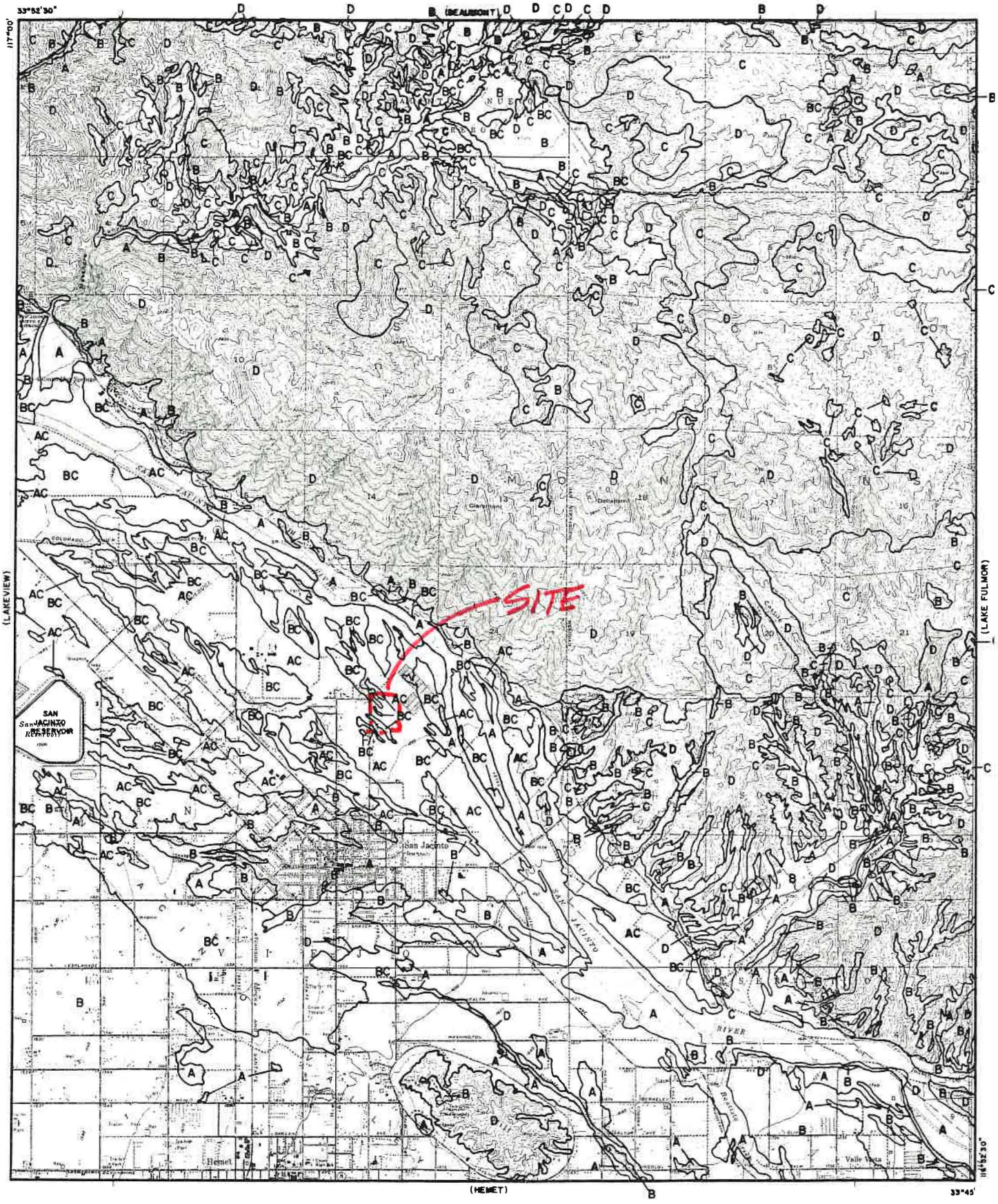
Large scale aerial



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LEGEND

—— SOILS GROUP BOUNDARY

A SOILS GROUP DESIGNATION

RCFC&WCD

HYDROLOGY MANUAL

N

0 FEET 5000

HYDROLOGIC SOILS GROUP MAP FOR SAN JACINTO

PLATE C-I.32 3

SECTION 2 – EXISTING CONDITION HYDROLOGY

Existing Condition Unit Hydrograph Method

10 Year – 3 Hour Storm

10 Year – 24 Hour Storm

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

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Study date 11/21/22 File: TR34271offsite310.out

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

Program License Serial Number 6556

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

 English Units used in output format

OFFSITE TRIBUTARY AREA TO VERNON/RAMONA EXPRESSWAY

Drainage Area = 175.00(Ac.) = 0.273 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 175.00(Ac.) = 0.273 Sq. Mi.
Length along longest watercourse = 7157.00(Ft.)
Length along longest watercourse measured to centroid = 3420.00(Ft.)
Length along longest watercourse = 1.355 Mi.
Length along longest watercourse measured to centroid = 0.648 Mi.
Difference in elevation = 45.00(Ft.)
Slope along watercourse = 33.1983 Ft./Mi.
Average Manning's 'N' = 0.040
Lag time = 0.470 Hr.
Lag time = 28.18 Min.
25% of lag time = 7.04 Min.
40% of lag time = 11.27 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]
175.00	0.84	147.35

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
175.00	2.32	406.00

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.842(In)
Area Averaged 100-Year Rainfall = 2.320(In)

Point rain (area averaged) = 1.450(In)
Areal adjustment factor = 99.92 %
Adjusted average point rain = 1.449(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
175.000	56.00	0.050

Total Area Entered = 175.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.050	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(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	17.743	1.552	2.737
2	0.167	35.487	4.208	7.422
3	0.250	53.230	7.196	12.691
4	0.333	70.973	10.276	18.123
5	0.417	88.716	12.266	21.633
6	0.500	106.460	12.539	22.114
7	0.583	124.203	9.760	17.213
8	0.667	141.946	6.781	11.959
9	0.750	159.689	4.976	8.777
10	0.833	177.433	3.619	6.383
11	0.917	195.176	2.800	4.939
12	1.000	212.919	2.494	4.399
13	1.083	230.662	2.129	3.756
14	1.167	248.406	1.857	3.274
15	1.250	266.149	1.686	2.974
16	1.333	283.892	1.527	2.692
17	1.417	301.635	1.312	2.314
18	1.500	319.379	1.152	2.032
19	1.583	337.122	1.065	1.878
20	1.667	354.865	1.054	1.859
21	1.750	372.609	0.855	1.509
22	1.833	390.352	0.781	1.377
23	1.917	408.095	0.759	1.338
24	2.000	425.838	0.599	1.057
25	2.083	443.582	0.568	1.001
26	2.167	461.325	0.561	0.989
27	2.250	479.068	0.535	0.943
28	2.333	496.811	0.532	0.939
29	2.417	514.555	0.485	0.855
30	2.500	532.298	0.393	0.692
31	2.583	550.041	0.390	0.688
32	2.667	567.784	0.355	0.626
33	2.750	585.528	0.319	0.563
34	2.833	603.271	0.318	0.561
35	2.917	621.014	0.272	0.480
36	3.000	638.758	0.248	0.438
37	3.083	656.501	0.244	0.430
38	3.167	674.244	0.192	0.338
39	3.250	691.987	0.177	0.313
40	3.333	709.731	0.177	0.313
41	3.417	727.474	0.177	0.313
42	3.500	745.217	0.177	0.313
43	3.583	762.960	0.177	0.313
44	3.667	780.704	0.177	0.313
45	3.750	798.447	0.177	0.313
46	3.833	816.190	0.104	0.184
			Sum = 100.000	Sum= 176.367

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	0.226	(0.488)	0.203	0.023
2	0.17	1.30	0.226	(0.488)	0.203	0.023
3	0.25	1.10	0.191	(0.488)	0.172	0.019
4	0.33	1.50	0.261	(0.488)	0.235	0.026
5	0.42	1.50	0.261	(0.488)	0.235	0.026
6	0.50	1.80	0.313	(0.488)	0.282	0.031
7	0.58	1.50	0.261	(0.488)	0.235	0.026
8	0.67	1.80	0.313	(0.488)	0.282	0.031
9	0.75	1.80	0.313	(0.488)	0.282	0.031
10	0.83	1.50	0.261	(0.488)	0.235	0.026
11	0.92	1.60	0.278	(0.488)	0.250	0.028
12	1.00	1.80	0.313	(0.488)	0.282	0.031
13	1.08	2.20	0.383	(0.488)	0.344	0.038
14	1.17	2.20	0.383	(0.488)	0.344	0.038
15	1.25	2.20	0.383	(0.488)	0.344	0.038
16	1.33	2.00	0.348	(0.488)	0.313	0.035
17	1.42	2.60	0.452	(0.488)	0.407	0.045
18	1.50	2.70	0.469	(0.488)	0.423	0.047
19	1.58	2.40	0.417	(0.488)	0.376	0.042
20	1.67	2.70	0.469	(0.488)	0.423	0.047
21	1.75	3.30	0.574	0.488	(0.516)	0.086
22	1.83	3.10	0.539	(0.488)	0.485	0.054
23	1.92	2.90	0.504	(0.488)	0.454	0.050
24	2.00	3.00	0.522	(0.488)	0.469	0.052
25	2.08	3.10	0.539	(0.488)	0.485	0.054
26	2.17	4.20	0.730	0.488	(0.657)	0.242
27	2.25	5.00	0.869	0.488	(0.782)	0.382
28	2.33	3.50	0.609	0.488	(0.548)	0.121
29	2.42	6.80	1.182	0.488	(1.064)	0.695
30	2.50	7.30	1.269	0.488	(1.142)	0.781
31	2.58	8.20	1.426	0.488	(1.283)	0.938
32	2.67	5.90	1.026	0.488	(0.923)	0.538
33	2.75	2.00	0.348	(0.488)	0.313	0.035
34	2.83	1.80	0.313	(0.488)	0.282	0.031
35	2.92	1.80	0.313	(0.488)	0.282	0.031
36	3.00	0.60	0.104	(0.488)	0.094	0.010
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	4.8

Flood volume = Effective rainfall 0.40(In)
times area 175.0(Ac.)/[(In)/(Ft.)] = 5.8(Ac.Ft)
Total soil loss = 1.05(In)
Total soil loss = 15.354(Ac.Ft)
Total rainfall = 1.45(In)
Flood volume = 251608.8 Cubic Feet
Total soil loss = 668837.3 Cubic Feet

Peak flow rate of this hydrograph = 68.418(CFS)

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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	17.5	35.0	52.5	70.0
0+ 5	0.0004	0.06	Q	|	|	|	|
0+10	0.0020	0.23	Q	|	|	|	|
0+15	0.0055	0.51	Q	|	|	|	|
0+20	0.0118	0.91	Q	|	|	|	|
0+25	0.0215	1.41	Q	|	|	|	|
0+30	0.0349	1.95	VQ	|	|	|	|
0+35	0.0515	2.41	VQ	|	|	|	|
0+40	0.0707	2.80	VQ	|	|	|	|
0+45	0.0925	3.16	VQ	|	|	|	|
0+50	0.1162	3.45	VQ	|	|	|	|

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0+55      0.1416     3.68  V Q       |         |         |         |
1+ 0      0.1681     3.86  |VQ       |         |         |         |
1+ 5      0.1959     4.03  |VQ       |         |         |         |
1+10      0.2249     4.21  |VQ       |         |         |         |
1+15      0.2554     4.42  |VQ       |         |         |         |
1+20      0.2875     4.67  |VQ       |         |         |         |
1+25      0.3218     4.97  | Q       |         |         |         |
1+30      0.3581     5.27  | VQ      |         |         |         |
1+35      0.3964     5.56  | VQ      |         |         |         |
1+40      0.4366     5.84  |  Q      |         |         |         |
1+45      0.4795     6.23  |  Q      |         |         |         |
1+50      0.5257     6.71  |  Q      |         |         |         |
1+55      0.5753     7.20  |  VQ     |         |         |         |
2+ 0      0.6282     7.68  |   Q     |         |         |         |
2+ 5      0.6839     8.10  |   Q     |         |         |         |
2+10      0.7453     8.91  |    Q    |         |         |         |
2+15      0.8194    10.75  |    VQ   |         |         |         |
2+20      0.9122    13.48  |     VQ  |         |         |         |
2+25      1.0387    18.36  |      V  Q         |         |         |
2+30      1.2193    26.22  |       V |   Q     |         |         |
2+35      1.4749    37.12  |         V         |Q        |         |
2+40      1.8155    49.46  |         | V       |       Q |         |
2+45      2.2291    60.05  |         |    V    |         |   Q     |
2+50      2.6942    67.53  |         |       V |         |       Q |
2+55      3.1654    68.42  |         |         |V        |        Q|
3+ 0      3.5920    61.95  |         |         |   V     |     Q   |
3+ 5      3.9407    50.63  |         |         |      VQ |         |
3+10      4.2062    38.56  |         |         | Q     V |         |
3+15      4.4082    29.32  |         |     Q   |         V         |
3+20      4.5674    23.12  |         |  Q      |         |V        |
3+25      4.6970    18.82  |         Q         |         | V       |
3+30      4.8070    15.97  |        Q|         |         |  V      |
3+35      4.9027    13.89  |      Q  |         |         |  V      |
3+40      4.9869    12.22  |     Q   |         |         |   V     |
3+45      5.0621    10.92  |     Q   |         |         |    V    |
3+50      5.1293     9.76  |    Q    |         |         |    V    |
3+55      5.1889     8.66  |   Q     |         |         |    V    |
4+ 0      5.2431     7.86  |   Q     |         |         |     V   |
4+ 5      5.2921     7.13  |   Q     |         |         |     V   |
4+10      5.3366     6.46  |  Q      |         |         |     V   |
4+15      5.3770     5.86  |  Q      |         |         |      V  |
4+20      5.4130     5.24  | Q       |         |         |      V  |
4+25      5.4460     4.79  | Q       |         |         |      V  |
4+30      5.4762     4.37  | Q       |         |         |      V  |
4+35      5.5038     4.01  | Q       |         |         |       V |
4+40      5.5300     3.81  | Q       |         |         |       V |
4+45      5.5550     3.62  | Q       |         |         |       V |
4+50      5.5779     3.34  |Q        |         |         |       V |
4+55      5.5990     3.06  |Q        |         |         |       V |
5+ 0      5.6181     2.77  |Q        |         |         |       V |
5+ 5      5.6354     2.52  |Q        |         |         |        V|
5+10      5.6516     2.35  |Q        |         |         |        V|
5+15      5.6664     2.15  |Q        |         |         |        V|
5+20      5.6799     1.96  |Q        |         |         |        V|
5+25      5.6923     1.80  |Q        |         |         |        V|
5+30      5.7034     1.62  Q         |         |         |        V|
5+35      5.7136     1.47  Q         |         |         |        V|
5+40      5.7228     1.34  Q         |         |         |        V|
5+45      5.7314     1.25  Q         |         |         |        V|
5+50      5.7397     1.21  Q         |         |         |        V|
5+55      5.7477     1.17  Q         |         |         |        V|
6+ 0      5.7551     1.07  Q         |         |         |        V|
6+ 5      5.7619     0.98  Q         |         |         |        V|
6+10      5.7678     0.87  Q         |         |         |        V|
6+15      5.7722     0.64  Q         |         |         |        V|
6+20      5.7748     0.37  Q         |         |         |        V|
6+25      5.7757     0.13  Q         |         |         |        V|
6+30      5.7759     0.03  Q         |         |         |        V|
6+35      5.7761     0.02  Q         |         |         |        V|
6+40      5.7761     0.01  Q         |         |         |        V|
6+45      5.7761     0.00  Q         |         |         |        V|
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 11/21/22 File: TR34271offsite2410.out

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

Program License Serial Number 6556

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

English Units used in output format

OFFSITE TRIBUTARY AREA TO VERNON/RAMONA EXPRESSWAY
10 YEAR/24 HOUR STORM EVENT

Drainage Area = 175.00(Ac.) = 0.273 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 175.00(Ac.) = 0.273 Sq. Mi.
Length along longest watercourse = 7157.00(Ft.)
Length along longest watercourse measured to centroid = 3420.00(Ft.)
Length along longest watercourse = 1.355 Mi.
Length along longest watercourse measured to centroid = 0.648 Mi.
Difference in elevation = 45.00(Ft.)
Slope along watercourse = 33.1983 Ft./Mi.
Average Manning's 'N' = 0.040
Lag time = 0.470 Hr.
Lag time = 28.18 Min.
25% of lag time = 7.04 Min.
40% of lag time = 11.27 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]
175.00	2.07	362.25

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
175.00	5.49	960.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 2.070(In)
Area Averaged 100-Year Rainfall = 5.490(In)

Point rain (area averaged) = 3.477(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 3.476(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
175.000	56.00	0.050

Total Area Entered = 175.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.050	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(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	17.743	1.552	2.737
2	0.167	35.487	4.208	7.422
3	0.250	53.230	7.196	12.691
4	0.333	70.973	10.276	18.123
5	0.417	88.716	12.266	21.633
6	0.500	106.460	12.539	22.114
7	0.583	124.203	9.760	17.213
8	0.667	141.946	6.781	11.959
9	0.750	159.689	4.976	8.777
10	0.833	177.433	3.619	6.383
11	0.917	195.176	2.800	4.939
12	1.000	212.919	2.494	4.399
13	1.083	230.662	2.129	3.756
14	1.167	248.406	1.857	3.274
15	1.250	266.149	1.686	2.974
16	1.333	283.892	1.527	2.692
17	1.417	301.635	1.312	2.314
18	1.500	319.379	1.152	2.032
19	1.583	337.122	1.065	1.878
20	1.667	354.865	1.054	1.859
21	1.750	372.609	0.855	1.509
22	1.833	390.352	0.781	1.377
23	1.917	408.095	0.759	1.338
24	2.000	425.838	0.599	1.057
25	2.083	443.582	0.568	1.001
26	2.167	461.325	0.561	0.989
27	2.250	479.068	0.535	0.943
28	2.333	496.811	0.532	0.939
29	2.417	514.555	0.485	0.855
30	2.500	532.298	0.393	0.692
31	2.583	550.041	0.390	0.688
32	2.667	567.784	0.355	0.626
33	2.750	585.528	0.319	0.563
34	2.833	603.271	0.318	0.561
35	2.917	621.014	0.272	0.480
36	3.000	638.758	0.248	0.438
37	3.083	656.501	0.244	0.430
38	3.167	674.244	0.192	0.338
39	3.250	691.987	0.177	0.313
40	3.333	709.731	0.177	0.313
41	3.417	727.474	0.177	0.313
42	3.500	745.217	0.177	0.313
43	3.583	762.960	0.177	0.313
44	3.667	780.704	0.177	0.313
45	3.750	798.447	0.177	0.313
46	3.833	816.190	0.104	0.184
			Sum = 100.000	Sum= 176.367

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	0.028	(0.865)	0.025	0.003
2	0.17	0.07	0.028	(0.861)	0.025	0.003
3	0.25	0.07	0.028	(0.858)	0.025	0.003
4	0.33	0.10	0.042	(0.855)	0.038	0.004
5	0.42	0.10	0.042	(0.851)	0.038	0.004
6	0.50	0.10	0.042	(0.848)	0.038	0.004
7	0.58	0.10	0.042	(0.845)	0.038	0.004
8	0.67	0.10	0.042	(0.841)	0.038	0.004
9	0.75	0.10	0.042	(0.838)	0.038	0.004
10	0.83	0.13	0.056	(0.835)	0.050	0.006
11	0.92	0.13	0.056	(0.832)	0.050	0.006
12	1.00	0.13	0.056	(0.828)	0.050	0.006
13	1.08	0.10	0.042	(0.825)	0.038	0.004
14	1.17	0.10	0.042	(0.822)	0.038	0.004
15	1.25	0.10	0.042	(0.819)	0.038	0.004
16	1.33	0.10	0.042	(0.815)	0.038	0.004
17	1.42	0.10	0.042	(0.812)	0.038	0.004
18	1.50	0.10	0.042	(0.809)	0.038	0.004
19	1.58	0.10	0.042	(0.806)	0.038	0.004
20	1.67	0.10	0.042	(0.802)	0.038	0.004
21	1.75	0.10	0.042	(0.799)	0.038	0.004
22	1.83	0.13	0.056	(0.796)	0.050	0.006
23	1.92	0.13	0.056	(0.793)	0.050	0.006
24	2.00	0.13	0.056	(0.789)	0.050	0.006
25	2.08	0.13	0.056	(0.786)	0.050	0.006
26	2.17	0.13	0.056	(0.783)	0.050	0.006
27	2.25	0.13	0.056	(0.780)	0.050	0.006
28	2.33	0.13	0.056	(0.777)	0.050	0.006
29	2.42	0.13	0.056	(0.774)	0.050	0.006
30	2.50	0.13	0.056	(0.770)	0.050	0.006
31	2.58	0.17	0.070	(0.767)	0.063	0.007
32	2.67	0.17	0.070	(0.764)	0.063	0.007
33	2.75	0.17	0.070	(0.761)	0.063	0.007
34	2.83	0.17	0.070	(0.758)	0.063	0.007
35	2.92	0.17	0.070	(0.755)	0.063	0.007
36	3.00	0.17	0.070	(0.752)	0.063	0.007
37	3.08	0.17	0.070	(0.748)	0.063	0.007
38	3.17	0.17	0.070	(0.745)	0.063	0.007
39	3.25	0.17	0.070	(0.742)	0.063	0.007
40	3.33	0.17	0.070	(0.739)	0.063	0.007
41	3.42	0.17	0.070	(0.736)	0.063	0.007
42	3.50	0.17	0.070	(0.733)	0.063	0.007
43	3.58	0.17	0.070	(0.730)	0.063	0.007
44	3.67	0.17	0.070	(0.727)	0.063	0.007
45	3.75	0.17	0.070	(0.724)	0.063	0.007
46	3.83	0.20	0.083	(0.721)	0.075	0.008
47	3.92	0.20	0.083	(0.718)	0.075	0.008
48	4.00	0.20	0.083	(0.715)	0.075	0.008
49	4.08	0.20	0.083	(0.712)	0.075	0.008
50	4.17	0.20	0.083	(0.709)	0.075	0.008
51	4.25	0.20	0.083	(0.706)	0.075	0.008
52	4.33	0.23	0.097	(0.703)	0.088	0.010
53	4.42	0.23	0.097	(0.700)	0.088	0.010
54	4.50	0.23	0.097	(0.697)	0.088	0.010
55	4.58	0.23	0.097	(0.694)	0.088	0.010
56	4.67	0.23	0.097	(0.691)	0.088	0.010
57	4.75	0.23	0.097	(0.688)	0.088	0.010
58	4.83	0.27	0.111	(0.685)	0.100	0.011
59	4.92	0.27	0.111	(0.682)	0.100	0.011
60	5.00	0.27	0.111	(0.679)	0.100	0.011
61	5.08	0.20	0.083	(0.676)	0.075	0.008
62	5.17	0.20	0.083	(0.673)	0.075	0.008
63	5.25	0.20	0.083	(0.670)	0.075	0.008
64	5.33	0.23	0.097	(0.667)	0.088	0.010
65	5.42	0.23	0.097	(0.664)	0.088	0.010
66	5.50	0.23	0.097	(0.661)	0.088	0.010
67	5.58	0.27	0.111	(0.658)	0.100	0.011

68	5.67	0.27	0.111	(0.655)	0.100	0.011
69	5.75	0.27	0.111	(0.653)	0.100	0.011
70	5.83	0.27	0.111	(0.650)	0.100	0.011
71	5.92	0.27	0.111	(0.647)	0.100	0.011
72	6.00	0.27	0.111	(0.644)	0.100	0.011
73	6.08	0.30	0.125	(0.641)	0.113	0.013
74	6.17	0.30	0.125	(0.638)	0.113	0.013
75	6.25	0.30	0.125	(0.635)	0.113	0.013
76	6.33	0.30	0.125	(0.633)	0.113	0.013
77	6.42	0.30	0.125	(0.630)	0.113	0.013
78	6.50	0.30	0.125	(0.627)	0.113	0.013
79	6.58	0.33	0.139	(0.624)	0.125	0.014
80	6.67	0.33	0.139	(0.621)	0.125	0.014
81	6.75	0.33	0.139	(0.618)	0.125	0.014
82	6.83	0.33	0.139	(0.616)	0.125	0.014
83	6.92	0.33	0.139	(0.613)	0.125	0.014
84	7.00	0.33	0.139	(0.610)	0.125	0.014
85	7.08	0.33	0.139	(0.607)	0.125	0.014
86	7.17	0.33	0.139	(0.605)	0.125	0.014
87	7.25	0.33	0.139	(0.602)	0.125	0.014
88	7.33	0.37	0.153	(0.599)	0.138	0.015
89	7.42	0.37	0.153	(0.596)	0.138	0.015
90	7.50	0.37	0.153	(0.594)	0.138	0.015
91	7.58	0.40	0.167	(0.591)	0.150	0.017
92	7.67	0.40	0.167	(0.588)	0.150	0.017
93	7.75	0.40	0.167	(0.585)	0.150	0.017
94	7.83	0.43	0.181	(0.583)	0.163	0.018
95	7.92	0.43	0.181	(0.580)	0.163	0.018
96	8.00	0.43	0.181	(0.577)	0.163	0.018
97	8.08	0.50	0.209	(0.575)	0.188	0.021
98	8.17	0.50	0.209	(0.572)	0.188	0.021
99	8.25	0.50	0.209	(0.569)	0.188	0.021
100	8.33	0.50	0.209	(0.567)	0.188	0.021
101	8.42	0.50	0.209	(0.564)	0.188	0.021
102	8.50	0.50	0.209	(0.561)	0.188	0.021
103	8.58	0.53	0.222	(0.559)	0.200	0.022
104	8.67	0.53	0.222	(0.556)	0.200	0.022
105	8.75	0.53	0.222	(0.553)	0.200	0.022
106	8.83	0.57	0.236	(0.551)	0.213	0.024
107	8.92	0.57	0.236	(0.548)	0.213	0.024
108	9.00	0.57	0.236	(0.546)	0.213	0.024
109	9.08	0.63	0.264	(0.543)	0.238	0.026
110	9.17	0.63	0.264	(0.540)	0.238	0.026
111	9.25	0.63	0.264	(0.538)	0.238	0.026
112	9.33	0.67	0.278	(0.535)	0.250	0.028
113	9.42	0.67	0.278	(0.533)	0.250	0.028
114	9.50	0.67	0.278	(0.530)	0.250	0.028
115	9.58	0.70	0.292	(0.528)	0.263	0.029
116	9.67	0.70	0.292	(0.525)	0.263	0.029
117	9.75	0.70	0.292	(0.523)	0.263	0.029
118	9.83	0.73	0.306	(0.520)	0.275	0.031
119	9.92	0.73	0.306	(0.518)	0.275	0.031
120	10.00	0.73	0.306	(0.515)	0.275	0.031
121	10.08	0.50	0.209	(0.513)	0.188	0.021
122	10.17	0.50	0.209	(0.510)	0.188	0.021
123	10.25	0.50	0.209	(0.508)	0.188	0.021
124	10.33	0.50	0.209	(0.505)	0.188	0.021
125	10.42	0.50	0.209	(0.503)	0.188	0.021
126	10.50	0.50	0.209	(0.500)	0.188	0.021
127	10.58	0.67	0.278	(0.498)	0.250	0.028
128	10.67	0.67	0.278	(0.495)	0.250	0.028
129	10.75	0.67	0.278	(0.493)	0.250	0.028
130	10.83	0.67	0.278	(0.491)	0.250	0.028
131	10.92	0.67	0.278	(0.488)	0.250	0.028
132	11.00	0.67	0.278	(0.486)	0.250	0.028
133	11.08	0.63	0.264	(0.483)	0.238	0.026
134	11.17	0.63	0.264	(0.481)	0.238	0.026
135	11.25	0.63	0.264	(0.479)	0.238	0.026
136	11.33	0.63	0.264	(0.476)	0.238	0.026
137	11.42	0.63	0.264	(0.474)	0.238	0.026
138	11.50	0.63	0.264	(0.472)	0.238	0.026

139	11.58	0.57	0.236	(0.469)	0.213	0.024
140	11.67	0.57	0.236	(0.467)	0.213	0.024
141	11.75	0.57	0.236	(0.465)	0.213	0.024
142	11.83	0.60	0.250	(0.462)	0.225	0.025
143	11.92	0.60	0.250	(0.460)	0.225	0.025
144	12.00	0.60	0.250	(0.458)	0.225	0.025
145	12.08	0.83	0.348	(0.455)	0.313	0.035
146	12.17	0.83	0.348	(0.453)	0.313	0.035
147	12.25	0.83	0.348	(0.451)	0.313	0.035
148	12.33	0.87	0.361	(0.449)	0.325	0.036
149	12.42	0.87	0.361	(0.446)	0.325	0.036
150	12.50	0.87	0.361	(0.444)	0.325	0.036
151	12.58	0.93	0.389	(0.442)	0.350	0.039
152	12.67	0.93	0.389	(0.440)	0.350	0.039
153	12.75	0.93	0.389	(0.437)	0.350	0.039
154	12.83	0.97	0.403	(0.435)	0.363	0.040
155	12.92	0.97	0.403	(0.433)	0.363	0.040
156	13.00	0.97	0.403	(0.431)	0.363	0.040
157	13.08	1.13	0.473	(0.429)	0.425	0.047
158	13.17	1.13	0.473	(0.426)	0.425	0.047
159	13.25	1.13	0.473	0.424	(0.425)	0.048
160	13.33	1.13	0.473	0.422	(0.425)	0.051
161	13.42	1.13	0.473	0.420	(0.425)	0.053
162	13.50	1.13	0.473	0.418	(0.425)	0.055
163	13.58	0.77	0.320	(0.416)	0.288	0.032
164	13.67	0.77	0.320	(0.414)	0.288	0.032
165	13.75	0.77	0.320	(0.411)	0.288	0.032
166	13.83	0.77	0.320	(0.409)	0.288	0.032
167	13.92	0.77	0.320	(0.407)	0.288	0.032
168	14.00	0.77	0.320	(0.405)	0.288	0.032
169	14.08	0.90	0.375	(0.403)	0.338	0.038
170	14.17	0.90	0.375	(0.401)	0.338	0.038
171	14.25	0.90	0.375	(0.399)	0.338	0.038
172	14.33	0.87	0.361	(0.397)	0.325	0.036
173	14.42	0.87	0.361	(0.395)	0.325	0.036
174	14.50	0.87	0.361	(0.393)	0.325	0.036
175	14.58	0.87	0.361	(0.391)	0.325	0.036
176	14.67	0.87	0.361	(0.389)	0.325	0.036
177	14.75	0.87	0.361	(0.387)	0.325	0.036
178	14.83	0.83	0.348	(0.385)	0.313	0.035
179	14.92	0.83	0.348	(0.383)	0.313	0.035
180	15.00	0.83	0.348	(0.381)	0.313	0.035
181	15.08	0.80	0.334	(0.379)	0.300	0.033
182	15.17	0.80	0.334	(0.377)	0.300	0.033
183	15.25	0.80	0.334	(0.375)	0.300	0.033
184	15.33	0.77	0.320	(0.373)	0.288	0.032
185	15.42	0.77	0.320	(0.371)	0.288	0.032
186	15.50	0.77	0.320	(0.369)	0.288	0.032
187	15.58	0.63	0.264	(0.368)	0.238	0.026
188	15.67	0.63	0.264	(0.366)	0.238	0.026
189	15.75	0.63	0.264	(0.364)	0.238	0.026
190	15.83	0.63	0.264	(0.362)	0.238	0.026
191	15.92	0.63	0.264	(0.360)	0.238	0.026
192	16.00	0.63	0.264	(0.358)	0.238	0.026
193	16.08	0.13	0.056	(0.356)	0.050	0.006
194	16.17	0.13	0.056	(0.355)	0.050	0.006
195	16.25	0.13	0.056	(0.353)	0.050	0.006
196	16.33	0.13	0.056	(0.351)	0.050	0.006
197	16.42	0.13	0.056	(0.349)	0.050	0.006
198	16.50	0.13	0.056	(0.347)	0.050	0.006
199	16.58	0.10	0.042	(0.346)	0.038	0.004
200	16.67	0.10	0.042	(0.344)	0.038	0.004
201	16.75	0.10	0.042	(0.342)	0.038	0.004
202	16.83	0.10	0.042	(0.340)	0.038	0.004
203	16.92	0.10	0.042	(0.339)	0.038	0.004
204	17.00	0.10	0.042	(0.337)	0.038	0.004
205	17.08	0.17	0.070	(0.335)	0.063	0.007
206	17.17	0.17	0.070	(0.334)	0.063	0.007
207	17.25	0.17	0.070	(0.332)	0.063	0.007
208	17.33	0.17	0.070	(0.330)	0.063	0.007
209	17.42	0.17	0.070	(0.329)	0.063	0.007

210	17.50	0.17	0.070	(0.327)	0.063	0.007
211	17.58	0.17	0.070	(0.325)	0.063	0.007
212	17.67	0.17	0.070	(0.324)	0.063	0.007
213	17.75	0.17	0.070	(0.322)	0.063	0.007
214	17.83	0.13	0.056	(0.320)	0.050	0.006
215	17.92	0.13	0.056	(0.319)	0.050	0.006
216	18.00	0.13	0.056	(0.317)	0.050	0.006
217	18.08	0.13	0.056	(0.316)	0.050	0.006
218	18.17	0.13	0.056	(0.314)	0.050	0.006
219	18.25	0.13	0.056	(0.313)	0.050	0.006
220	18.33	0.13	0.056	(0.311)	0.050	0.006
221	18.42	0.13	0.056	(0.310)	0.050	0.006
222	18.50	0.13	0.056	(0.308)	0.050	0.006
223	18.58	0.10	0.042	(0.307)	0.038	0.004
224	18.67	0.10	0.042	(0.305)	0.038	0.004
225	18.75	0.10	0.042	(0.304)	0.038	0.004
226	18.83	0.07	0.028	(0.302)	0.025	0.003
227	18.92	0.07	0.028	(0.301)	0.025	0.003
228	19.00	0.07	0.028	(0.299)	0.025	0.003
229	19.08	0.10	0.042	(0.298)	0.038	0.004
230	19.17	0.10	0.042	(0.297)	0.038	0.004
231	19.25	0.10	0.042	(0.295)	0.038	0.004
232	19.33	0.13	0.056	(0.294)	0.050	0.006
233	19.42	0.13	0.056	(0.292)	0.050	0.006
234	19.50	0.13	0.056	(0.291)	0.050	0.006
235	19.58	0.10	0.042	(0.290)	0.038	0.004
236	19.67	0.10	0.042	(0.288)	0.038	0.004
237	19.75	0.10	0.042	(0.287)	0.038	0.004
238	19.83	0.07	0.028	(0.286)	0.025	0.003
239	19.92	0.07	0.028	(0.285)	0.025	0.003
240	20.00	0.07	0.028	(0.283)	0.025	0.003
241	20.08	0.10	0.042	(0.282)	0.038	0.004
242	20.17	0.10	0.042	(0.281)	0.038	0.004
243	20.25	0.10	0.042	(0.280)	0.038	0.004
244	20.33	0.10	0.042	(0.278)	0.038	0.004
245	20.42	0.10	0.042	(0.277)	0.038	0.004
246	20.50	0.10	0.042	(0.276)	0.038	0.004
247	20.58	0.10	0.042	(0.275)	0.038	0.004
248	20.67	0.10	0.042	(0.274)	0.038	0.004
249	20.75	0.10	0.042	(0.273)	0.038	0.004
250	20.83	0.07	0.028	(0.271)	0.025	0.003
251	20.92	0.07	0.028	(0.270)	0.025	0.003
252	21.00	0.07	0.028	(0.269)	0.025	0.003
253	21.08	0.10	0.042	(0.268)	0.038	0.004
254	21.17	0.10	0.042	(0.267)	0.038	0.004
255	21.25	0.10	0.042	(0.266)	0.038	0.004
256	21.33	0.07	0.028	(0.265)	0.025	0.003
257	21.42	0.07	0.028	(0.264)	0.025	0.003
258	21.50	0.07	0.028	(0.263)	0.025	0.003
259	21.58	0.10	0.042	(0.262)	0.038	0.004
260	21.67	0.10	0.042	(0.261)	0.038	0.004
261	21.75	0.10	0.042	(0.260)	0.038	0.004
262	21.83	0.07	0.028	(0.259)	0.025	0.003
263	21.92	0.07	0.028	(0.258)	0.025	0.003
264	22.00	0.07	0.028	(0.258)	0.025	0.003
265	22.08	0.10	0.042	(0.257)	0.038	0.004
266	22.17	0.10	0.042	(0.256)	0.038	0.004
267	22.25	0.10	0.042	(0.255)	0.038	0.004
268	22.33	0.07	0.028	(0.254)	0.025	0.003
269	22.42	0.07	0.028	(0.253)	0.025	0.003
270	22.50	0.07	0.028	(0.253)	0.025	0.003
271	22.58	0.07	0.028	(0.252)	0.025	0.003
272	22.67	0.07	0.028	(0.251)	0.025	0.003
273	22.75	0.07	0.028	(0.251)	0.025	0.003
274	22.83	0.07	0.028	(0.250)	0.025	0.003
275	22.92	0.07	0.028	(0.249)	0.025	0.003
276	23.00	0.07	0.028	(0.249)	0.025	0.003
277	23.08	0.07	0.028	(0.248)	0.025	0.003
278	23.17	0.07	0.028	(0.248)	0.025	0.003
279	23.25	0.07	0.028	(0.247)	0.025	0.003
280	23.33	0.07	0.028	(0.247)	0.025	0.003

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281  23.42     0.07      0.028       (  0.246)       0.025        0.003
282  23.50     0.07      0.028       (  0.246)       0.025        0.003
283  23.58     0.07      0.028       (  0.245)       0.025        0.003
284  23.67     0.07      0.028       (  0.245)       0.025        0.003
285  23.75     0.07      0.028       (  0.245)       0.025        0.003
286  23.83     0.07      0.028       (  0.244)       0.025        0.003
287  23.92     0.07      0.028       (  0.244)       0.025        0.003
288  24.00     0.07      0.028       (  0.244)       0.025        0.003
               (Loss Rate Not Used)
    Sum =     100.0                                    Sum =     4.2
      Flood volume = Effective rainfall      0.35(In)
       times area     175.0(Ac.)/[(In)/(Ft.)] =       5.1(Ac.Ft)
      Total soil loss =      3.13(In)
      Total soil loss =    45.599(Ac.Ft)
      Total rainfall =      3.48(In)
      Flood volume =      221734.8 Cubic Feet
      Total soil loss =     1986284.5 Cubic Feet
      ---------------------------------------------------------------------
       Peak flow rate of this hydrograph =      7.707(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      0.03  Q         |         |         |         |
   0+15       0.0007      0.06  Q         |         |         |         |
   0+20       0.0015      0.12  Q         |         |         |         |
   0+25       0.0028      0.19  Q         |         |         |         |
   0+30       0.0046      0.27  VQ        |         |         |         |
   0+35       0.0070      0.34  VQ        |         |         |         |
   0+40       0.0098      0.40  VQ        |         |         |         |
   0+45       0.0129      0.46  VQ        |         |         |         |
   0+50       0.0164      0.50  V Q       |         |         |         |
   0+55       0.0202      0.55  V Q       |         |         |         |
   1+ 0       0.0242      0.59  V Q       |         |         |         |
   1+ 5       0.0285      0.63  V Q       |         |         |         |
   1+10       0.0331      0.66  V Q       |         |         |         |
   1+15       0.0379      0.69  V Q       |         |         |         |
   1+20       0.0427      0.70  V Q       |         |         |         |
   1+25       0.0475      0.70  V Q       |         |         |         |
   1+30       0.0523      0.69  V Q       |         |         |         |
   1+35       0.0570      0.69  V Q       |         |         |         |
   1+40       0.0617      0.68  V Q       |         |         |         |
   1+45       0.0664      0.69  V Q       |         |         |         |
   1+50       0.0712      0.69  V Q       |         |         |         |
   1+55       0.0761      0.71  V Q       |         |         |         |
   2+ 0       0.0811      0.73  V Q       |         |         |         |
   2+ 5       0.0863      0.76  V  Q      |         |         |         |
   2+10       0.0917      0.79  V  Q      |         |         |         |
   2+15       0.0974      0.82  V  Q      |         |         |         |
   2+20       0.1032      0.85  V  Q      |         |         |         |
   2+25       0.1092      0.87  V  Q      |         |         |         |
   2+30       0.1153      0.88  V  Q      |         |         |         |
   2+35       0.1215      0.90  V  Q      |         |         |         |
   2+40       0.1278      0.92  |V Q      |         |         |         |
   2+45       0.1343      0.94  |V Q      |         |         |         |
   2+50       0.1410      0.98  |V Q      |         |         |         |
   2+55       0.1480      1.01  |V  Q     |         |         |         |
   3+ 0       0.1552      1.05  |V  Q     |         |         |         |
   3+ 5       0.1626      1.08  |V  Q     |         |         |         |
   3+10       0.1702      1.10  |V  Q     |         |         |         |
   3+15       0.1779      1.12  |V  Q     |         |         |         |
   3+20       0.1857      1.13  |V  Q     |         |         |         |
   3+25       0.1935      1.14  |V  Q     |         |         |         |
   3+30       0.2014      1.15  |V  Q     |         |         |         |
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3+35      0.2094      1.16  |V  Q     |         |         |         |
3+40      0.2174      1.16  |V  Q     |         |         |         |
3+45      0.2255      1.17  |V  Q     |         |         |         |
3+50      0.2336      1.18  |V  Q     |         |         |         |
3+55      0.2419      1.20  |V  Q     |         |         |         |
4+ 0      0.2502      1.22  |V  Q     |         |         |         |
4+ 5      0.2588      1.25  | V Q     |         |         |         |
4+10      0.2677      1.28  | V  Q    |         |         |         |
4+15      0.2767      1.31  | V  Q    |         |         |         |
4+20      0.2860      1.35  | V  Q    |         |         |         |
4+25      0.2955      1.38  | V  Q    |         |         |         |
4+30      0.3051      1.41  | V  Q    |         |         |         |
4+35      0.3151      1.44  | V  Q    |         |         |         |
4+40      0.3253      1.48  | V  Q    |         |         |         |
4+45      0.3358      1.52  | V   Q   |         |         |         |
4+50      0.3465      1.56  | V   Q   |         |         |         |
4+55      0.3574      1.59  | V   Q   |         |         |         |
5+ 0      0.3686      1.62  | V   Q   |         |         |         |
5+ 5      0.3800      1.66  | V   Q   |         |         |         |
5+10      0.3915      1.68  |  V  Q   |         |         |         |
5+15      0.4031      1.68  |  V  Q   |         |         |         |
5+20      0.4146      1.67  |  V  Q   |         |         |         |
5+25      0.4259      1.64  |  V  Q   |         |         |         |
5+30      0.4371      1.62  |  V  Q   |         |         |         |
5+35      0.4482      1.62  |  V  Q   |         |         |         |
5+40      0.4595      1.63  |  V  Q   |         |         |         |
5+45      0.4710      1.67  |  V  Q   |         |         |         |
5+50      0.4827      1.71  |  V  Q   |         |         |         |
5+55      0.4948      1.75  |  V   Q  |         |         |         |
6+ 0      0.5071      1.79  |  V   Q  |         |         |         |
6+ 5      0.5197      1.82  |   V  Q  |         |         |         |
6+10      0.5325      1.86  |   V  Q  |         |         |         |
6+15      0.5455      1.89  |   V  Q  |         |         |         |
6+20      0.5588      1.93  |   V  Q  |         |         |         |
6+25      0.5723      1.97  |   V  Q  |         |         |         |
6+30      0.5861      2.01  |   V   Q |         |         |         |
6+35      0.6002      2.04  |   V   Q |         |         |         |
6+40      0.6145      2.08  |   V   Q |         |         |         |
6+45      0.6290      2.11  |   V   Q |         |         |         |
6+50      0.6438      2.15  |    V  Q |         |         |         |
6+55      0.6589      2.19  |    V  Q |         |         |         |
7+ 0      0.6743      2.23  |    V  Q |         |         |         |
7+ 5      0.6899      2.27  |    V   Q|         |         |         |
7+10      0.7057      2.29  |    V   Q|         |         |         |
7+15      0.7216      2.31  |    V   Q|         |         |         |
7+20      0.7377      2.33  |    V   Q|         |         |         |
7+25      0.7539      2.35  |    V   Q|         |         |         |
7+30      0.7703      2.38  |     V  Q|         |         |         |
7+35      0.7870      2.42  |     V  Q|         |         |         |
7+40      0.8040      2.47  |     V  Q|         |         |         |
7+45      0.8214      2.53  |     V   Q         |         |         |
7+50      0.8392      2.59  |     V   Q         |         |         |
7+55      0.8575      2.65  |     V   Q         |         |         |
8+ 0      0.8762      2.72  |     V   Q         |         |         |
8+ 5      0.8954      2.79  |      V  |Q        |         |         |
8+10      0.9152      2.87  |      V  |Q        |         |         |
8+15      0.9355      2.96  |      V  |Q        |         |         |
8+20      0.9566      3.05  |      V  | Q       |         |         |
8+25      0.9782      3.14  |      V  | Q       |         |         |
8+30      1.0004      3.23  |      V  | Q       |         |         |
8+35      1.0232      3.30  |       V |  Q      |         |         |
8+40      1.0463      3.36  |       V |  Q      |         |         |
8+45      1.0699      3.42  |       V |  Q      |         |         |
8+50      1.0938      3.48  |       V |  Q      |         |         |
8+55      1.1182      3.55  |       V |   Q     |         |         |
9+ 0      1.1432      3.62  |       V |   Q     |         |         |
9+ 5      1.1686      3.70  |        V|   Q     |         |         |
9+10      1.1947      3.78  |        V|    Q    |         |         |
9+15      1.2214      3.88  |        V|    Q    |         |         |
9+20      1.2488      3.98  |        V|    Q    |         |         |
9+25      1.2769      4.09  |         V     Q   |         |         |
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9+30	1.3058	4.20	|	V	Q	|	|	|
9+35	1.3354	4.30	|	V	Q	|	|	|
9+40	1.3657	4.39	|	V	Q	|	|	|
9+45	1.3966	4.48	|	V	Q	|	|	|
9+50	1.4281	4.57	|	|V	Q	|	|	|
9+55	1.4601	4.66	|	|V	Q	|	|	|
10+ 0	1.4928	4.75	|	|V	Q	|	|	|
10+ 5	1.5259	4.80	|	|V	Q|	|	|	|
10+10	1.5590	4.80	|	| V	Q|	|	|	|
10+15	1.5916	4.75	|	| V	Q |	|	|	|
10+20	1.6235	4.62	|	| V	Q |	|	|	|
10+25	1.6542	4.46	|	| V	Q |	|	|	|
10+30	1.6836	4.28	|	| V	Q |	|	|	|
10+35	1.7123	4.16	|	| V	Q |	|	|	|
10+40	1.7407	4.12	|	| V	Q |	|	|	|
10+45	1.7692	4.15	|	| V	Q |	|	|	|
10+50	1.7984	4.23	|	| V	Q |	|	|	|
10+55	1.8284	4.35	|	| V	Q |	|	|	|
11+ 0	1.8592	4.48	|	| V	Q |	|	|	|
11+ 5	1.8907	4.58	|	| V	Q |	|	|	|
11+10	1.9226	4.63	|	| V	Q |	|	|	|
11+15	1.9547	4.66	|	| V	Q |	|	|	|
11+20	1.9868	4.66	|	| V	Q |	|	|	|
11+25	2.0189	4.66	|	| V	Q |	|	|	|
11+30	2.0509	4.65	|	| V	Q |	|	|	|
11+35	2.0828	4.63	|	| V	Q |	|	|	|
11+40	2.1145	4.61	|	| V	Q |	|	|	|
11+45	2.1460	4.57	|	| V	Q |	|	|	|
11+50	2.1772	4.53	|	| V	Q |	|	|	|
11+55	2.2080	4.48	|	| V	Q |	|	|	|
12+ 0	2.2386	4.44	|	| V	Q |	|	|	|
12+ 5	2.2692	4.45	|	| V	Q |	|	|	|
12+10	2.3004	4.52	|	| V	Q |	|	|	|
12+15	2.3324	4.65	|	| V	Q |	|	|	|
12+20	2.3657	4.84	|	| V	Q|	|	|	|
12+25	2.4006	5.06	|	| V	Q	|	|	|
12+30	2.4370	5.30	|	| V	|Q	|	|	|
12+35	2.4749	5.50	|	| V	|Q	|	|	|
12+40	2.5139	5.66	|	| V	| Q	|	|	|
12+45	2.5539	5.81	|	| V	Q	|	|	|
12+50	2.5949	5.95	|	| V	Q	|	|	|
12+55	2.6368	6.09	|	| V	Q	|	|	|
13+ 0	2.6796	6.22	|	|	|V	Q |	|	|
13+ 5	2.7234	6.35	|	|	|V	Q |	|	|
13+10	2.7682	6.51	|	|	|V	Q |	|	|
13+15	2.8143	6.69	|	|	| V	Q |	|	|
13+20	2.8618	6.90	|	|	| V	Q |	|	|
13+25	2.9110	7.14	|	|	| V	Q |	|	|
13+30	2.9621	7.42	|	|	| V	Q|	|	|
13+35	3.0145	7.62	|	|	| V	Q	|	|
13+40	3.0676	7.71	|	|	| V	Q	|	|
13+45	3.1204	7.66	|	|	| V	Q	|	|
13+50	3.1717	7.46	|	|	| V	Q|	|	|
13+55	3.2210	7.15	|	|	| V	Q |	|	|
14+ 0	3.2677	6.78	|	|	| V	Q |	|	|
14+ 5	3.3125	6.51	|	|	| V	Q |	|	|
14+10	3.3564	6.37	|	|	| Q	V |	|	|
14+15	3.4000	6.32	|	|	| Q	V |	|	|
14+20	3.4436	6.34	|	|	| Q	V |	|	|
14+25	3.4877	6.40	|	|	| Q	V |	|	|
14+30	3.5321	6.45	|	|	| Q	V |	|	|
14+35	3.5767	6.48	|	|	| Q	V |	|	|
14+40	3.6214	6.49	|	|	| Q	V |	|	|
14+45	3.6660	6.47	|	|	| Q	V |	|	|
14+50	3.7104	6.46	|	|	| Q	V|	|	|
14+55	3.7548	6.44	|	|	| Q	V|	|	|
15+ 0	3.7989	6.41	|	|	| Q	V|	|	|
15+ 5	3.8429	6.38	|	|	| Q	V	|	|
15+10	3.8864	6.33	|	|	| Q	V	|	|
15+15	3.9297	6.28	|	|	| Q	V	|	|
15+20	3.9726	6.23	|	|	| Q	|V	|	|

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15+25       4.0150      6.17  |          |          |    Q     |V         |
15+30       4.0571      6.11  |          |          |    Q     |V         |
15+35       4.0986      6.03  |          |          |    Q     | V        |
15+40       4.1395      5.94  |          |          |  Q       | V        |
15+45       4.1796      5.82  |          |          |  Q       | V        |
15+50       4.2187      5.68  |          |          | Q        |  V       |
15+55       4.2568      5.52  |          |          | Q        |  V       |
16+ 0       4.2938      5.38  |          |          |Q         |  V       |
16+ 5       4.3296      5.20  |          |          Q          |   V      |
16+10       4.3638      4.96  |          |        Q|          |   V      |
16+15       4.3957      4.63  |          |       Q |          |   V      |
16+20       4.4247      4.21  |          |     Q   |          |   V      |
16+25       4.4503      3.71  |          |   Q     |          |   V      |
16+30       4.4724      3.22  |          | Q       |          |    V     |
16+35       4.4919      2.82  |          |Q        |          |    V     |
16+40       4.5093      2.54  |          Q         |          |    V     |
16+45       4.5253      2.31  |        Q|          |          |    V     |
16+50       4.5399      2.13  |       Q |          |          |    V     |
16+55       4.5536      1.98  |      Q  |          |          |    V     |
17+ 0       4.5662      1.83  |      Q  |          |          |    V     |
17+ 5       4.5780      1.72  |     Q   |          |          |    V     |
17+10       4.5893      1.64  |     Q   |          |          |     V    |
17+15       4.6002      1.58  |     Q   |          |          |     V    |
17+20       4.6109      1.55  |     Q   |          |          |     V    |
17+25       4.6215      1.55  |     Q   |          |          |     V    |
17+30       4.6322      1.55  |     Q   |          |          |     V    |
17+35       4.6429      1.55  |     Q   |          |          |     V    |
17+40       4.6534      1.53  |     Q   |          |          |     V    |
17+45       4.6639      1.51  |     Q   |          |          |     V    |
17+50       4.6741      1.49  |    Q    |          |          |     V    |
17+55       4.6841      1.45  |    Q    |          |          |     V    |
18+ 0       4.6939      1.42  |    Q    |          |          |     V    |
18+ 5       4.7033      1.37  |    Q    |          |          |     V    |
18+10       4.7125      1.32  |    Q    |          |          |      V   |
18+15       4.7212      1.27  |    Q    |          |          |      V   |
18+20       4.7297      1.23  |   Q     |          |          |      V   |
18+25       4.7380      1.20  |   Q     |          |          |      V   |
18+30       4.7461      1.17  |   Q     |          |          |      V   |
18+35       4.7539      1.15  |   Q     |          |          |      V   |
18+40       4.7616      1.12  |   Q     |          |          |      V   |
18+45       4.7691      1.08  |   Q     |          |          |      V   |
18+50       4.7762      1.04  |   Q     |          |          |      V   |
18+55       4.7830      0.98  |  Q      |          |          |      V   |
19+ 0       4.7893      0.92  |  Q      |          |          |      V   |
19+ 5       4.7952      0.86  |  Q      |          |          |      V   |
19+10       4.8008      0.81  |  Q      |          |          |      V   |
19+15       4.8062      0.78  |  Q      |          |          |      V   |
19+20       4.8115      0.77  |  Q      |          |          |      V   |
19+25       4.8168      0.78  |  Q      |          |          |      V   |
19+30       4.8223      0.80  |  Q      |          |          |      V   |
19+35       4.8280      0.82  |  Q      |          |          |      V   |
19+40       4.8338      0.84  |  Q      |          |          |      V   |
19+45       4.8396      0.85  |  Q      |          |          |       V  |
19+50       4.8454      0.84  |  Q      |          |          |       V  |
19+55       4.8510      0.82  |  Q      |          |          |       V  |
20+ 0       4.8564      0.78  |  Q      |          |          |       V  |
20+ 5       4.8615      0.74  | Q       |          |          |       V  |
20+10       4.8664      0.71  | Q       |          |          |       V  |
20+15       4.8711      0.69  | Q       |          |          |       V  |
20+20       4.8758      0.68  | Q       |          |          |       V  |
20+25       4.8806      0.69  | Q       |          |          |       V  |
20+30       4.8855      0.71  | Q       |          |          |       V  |
20+35       4.8904      0.72  | Q       |          |          |       V  |
20+40       4.8955      0.73  | Q       |          |          |       V  |
20+45       4.9005      0.74  | Q       |          |          |       V  |
20+50       4.9056      0.73  | Q       |          |          |       V  |
20+55       4.9106      0.72  | Q       |          |          |       V  |
21+ 0       4.9154      0.71  | Q       |          |          |       V  |
21+ 5       4.9201      0.68  | Q       |          |          |       V  |
21+10       4.9247      0.66  | Q       |          |          |       V  |
21+15       4.9292      0.65  | Q       |          |          |       V  |
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21+20	4.9336	0.65	| Q	|	|	|	V |
21+25	4.9381	0.65	| Q	|	|	|	V |
21+30	4.9426	0.65	| Q	|	|	|	V |
21+35	4.9470	0.64	| Q	|	|	|	V |
21+40	4.9514	0.63	| Q	|	|	|	V |
21+45	4.9557	0.63	| Q	|	|	|	V |
21+50	4.9600	0.63	| Q	|	|	|	V |
21+55	4.9644	0.63	| Q	|	|	|	V|
22+ 0	4.9688	0.64	| Q	|	|	|	V|
22+ 5	4.9731	0.63	| Q	|	|	|	V|
22+10	4.9774	0.62	| Q	|	|	|	V|
22+15	4.9816	0.62	| Q	|	|	|	V|
22+20	4.9859	0.62	| Q	|	|	|	V|
22+25	4.9902	0.62	| Q	|	|	|	V|
22+30	4.9945	0.63	| Q	|	|	|	V|
22+35	4.9988	0.62	| Q	|	|	|	V|
22+40	5.0029	0.60	| Q	|	|	|	V|
22+45	5.0069	0.58	| Q	|	|	|	V|
22+50	5.0108	0.56	| Q	|	|	|	V|
22+55	5.0146	0.55	| Q	|	|	|	V|
23+ 0	5.0183	0.54	| Q	|	|	|	V|
23+ 5	5.0220	0.53	| Q	|	|	|	V|
23+10	5.0256	0.53	| Q	|	|	|	V|
23+15	5.0292	0.52	| Q	|	|	|	V|
23+20	5.0328	0.52	| Q	|	|	|	V|
23+25	5.0364	0.52	| Q	|	|	|	V|
23+30	5.0399	0.51	| Q	|	|	|	V|
23+35	5.0434	0.51	| Q	|	|	|	V|
23+40	5.0470	0.51	| Q	|	|	|	V|
23+45	5.0505	0.51	| Q	|	|	|	V|
23+50	5.0540	0.51	| Q	|	|	|	V|
23+55	5.0574	0.51	| Q	|	|	|	V|
24+ 0	5.0609	0.50	| Q	|	|	|	V|
24+ 5	5.0643	0.50	|Q	|	|	|	V|
24+10	5.0676	0.47	|Q	|	|	|	V|
24+15	5.0706	0.44	|Q	|	|	|	V|
24+20	5.0732	0.39	|Q	|	|	|	V|
24+25	5.0755	0.32	|Q	|	|	|	V|
24+30	5.0773	0.26	|Q	|	|	|	V|
24+35	5.0788	0.21	Q	|	|	|	V|
24+40	5.0800	0.18	Q	|	|	|	V|
24+45	5.0811	0.15	Q	|	|	|	V|
24+50	5.0820	0.14	Q	|	|	|	V|
24+55	5.0828	0.12	Q	|	|	|	V|
25+ 0	5.0836	0.11	Q	|	|	|	V|
25+ 5	5.0843	0.10	Q	|	|	|	V|
25+10	5.0849	0.09	Q	|	|	|	V|
25+15	5.0854	0.08	Q	|	|	|	V|
25+20	5.0859	0.07	Q	|	|	|	V|
25+25	5.0864	0.07	Q	|	|	|	V|
25+30	5.0868	0.06	Q	|	|	|	V|
25+35	5.0872	0.05	Q	|	|	|	V|
25+40	5.0875	0.05	Q	|	|	|	V|
25+45	5.0878	0.04	Q	|	|	|	V|
25+50	5.0881	0.04	Q	|	|	|	V|
25+55	5.0884	0.04	Q	|	|	|	V|
26+ 0	5.0886	0.03	Q	|	|	|	V|
26+ 5	5.0888	0.03	Q	|	|	|	V|
26+10	5.0890	0.03	Q	|	|	|	V|
26+15	5.0892	0.02	Q	|	|	|	V|
26+20	5.0893	0.02	Q	|	|	|	V|
26+25	5.0895	0.02	Q	|	|	|	V|
26+30	5.0896	0.02	Q	|	|	|	V|
26+35	5.0897	0.02	Q	|	|	|	V|
26+40	5.0898	0.01	Q	|	|	|	V|
26+45	5.0899	0.01	Q	|	|	|	V|
26+50	5.0900	0.01	Q	|	|	|	V|
26+55	5.0900	0.01	Q	|	|	|	V|
27+ 0	5.0901	0.01	Q	|	|	|	V|
27+ 5	5.0901	0.01	Q	|	|	|	V|
27+10	5.0902	0.01	Q	|	|	|	V|

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   27+15       5.0902      0.01  Q         |         |         |        V|
   27+20       5.0903      0.00  Q         |         |         |        V|
   27+25       5.0903      0.00  Q         |         |         |        V|
   27+30       5.0903      0.00  Q         |         |         |        V|
   27+35       5.0903      0.00  Q         |         |         |        V|
   27+40       5.0903      0.00  Q         |         |         |        V|
   27+45       5.0903      0.00  Q         |         |         |         V
-------------------------------------------------------------------------
```

SECTION 3 – ROUTING

Depth Versus Discharge

Routing 10 Year 3 Hour Storm

Routing 10 Year 24 Hour Storm

TRACT 34271 DETENTION BASIN STORAGE/DISCHARGE

Elevation	Area (Ac-ft)	H (ft)	Storage (Ac-ft)	Discharge Infiltration (cfs)	Discharge 24" PVC (cfs)	Total Discharge (cfs)
45.00	0.3310	0	0.0000	0	0	0
46.00	0.4320	1	0.3815	0.50	0	0.50
47.00	0.4930	2	0.8440	0.50	16.379	16.88
48.00	0.5710	3	1.3760	0.50	23.163	23.66
49.00	0.6600	4	1.9915	0.50	28.369	28.87
50.00	0.7550	5	2.6990	0.50	32.758	33.26
51.00	0.8660	6	3.5095	0.50	36.624	37.12
52.00	1.0600	7	4.4725	0.50	40.120	40.62

Equations

$Q_{24"CMP} = CA(2gH)^{½}$

C=0.65

A=area=3.14 SF

g=32.2

TRACT 34271 DETENTION BASIN STORAGE/DISCHARGE

45	0		
46	0.1853	0	0.1853
47	0.4124	0.0792	0.4916
48	0.6846	0.1978	0.8824
49	1	0.3578	1.3578
50	1.38	0.566	1.946
51	1.81	0.812	2.622

```
                    FLOOD HYDROGRAPH ROUTING PROGRAM
                Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2022
                            Study date: 11/21/22


      ---------------------------------------------------------------------


      OFFSITE TRIBUTARY AREA TO VERNON/RAMONA EXPRESSWAY
      10 YEAR/3 HOUR STORM ROUTING


      ---------------------------------------------------------------------


      Program License Serial Number 6556

      ---------------------------------------------------------------------
      ******************** HYDROGRAPH INFORMATION **********************

                    From study/file name: tr34271offsite310.rte
      ****************************HYDROGRAPH DATA**************************
                    Number of intervals =    81
                    Time interval =    5.0 (Min.)
                    Maximum/Peak flow rate =       68.418 (CFS)
                    Total volume =       5.776 (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        1.000 to Point/Station        2.000
      **** RETARDING BASIN ROUTING ****
      ________________________________________________________________________

      User entry of depth-outflow-storage data
      ---------------------------------------------------------------------
      Total number of inflow hydrograph intervals = 81
      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  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
           (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
      ---------------------------------------------------------------------
        0.000      0.000      0.000      0.000        0.000
        1.000      0.382      0.500      0.380        0.384
        2.000      0.844     16.880      0.786        0.902
        3.000      1.376     23.660      1.295        1.457
        4.000      1.992     28.870      1.893        2.091
        5.000      2.699     33.260      2.584        2.814
        6.000      3.510     37.120      3.382        3.638
        7.000      4.473     40.620      4.333        4.613
      ---------------------------------------------------------------------
                    Hydrograph Detention Basin Routing
      ---------------------------------------------------------------------

      Graph values: 'I'= unit inflow; 'O'=outflow at time shown
      ---------------------------------------------------------------------
Time   Inflow  Outflow    Storage                                        Depth
```

(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	17.1	34.21	51.31	68.42	(Ft.)
0.083	0.06	0.00	0.000	O	|	|	|	|	0.00
0.167	0.23	0.00	0.001	O	|	|	|	|	0.00
0.250	0.51	0.00	0.004	O	|	|	|	|	0.01
0.333	0.91	0.01	0.009	O	|	|	|	|	0.02
0.417	1.41	0.02	0.016	O	|	|	|	|	0.04
0.500	1.95	0.04	0.028	O	|	|	|	|	0.07
0.583	2.41	0.06	0.042	OI	|	|	|	|	0.11
0.667	2.80	0.08	0.060	OI	|	|	|	|	0.16
0.750	3.16	0.10	0.080	OI	|	|	|	|	0.21
0.833	3.45	0.13	0.102	OI	|	|	|	|	0.27
0.917	3.68	0.16	0.125	OI	|	|	|	|	0.33
1.000	3.86	0.20	0.150	OI	|	|	|	|	0.39
1.083	4.03	0.23	0.176	OI	|	|	|	|	0.46
1.167	4.21	0.26	0.202	OI	|	|	|	|	0.53
1.250	4.42	0.30	0.230	O I	|	|	|	|	0.60
1.333	4.67	0.34	0.259	O I	|	|	|	|	0.68
1.417	4.97	0.38	0.290	O I	|	|	|	|	0.76
1.500	5.27	0.42	0.322	O I	|	|	|	|	0.84
1.583	5.56	0.47	0.357	O I	|	|	|	|	0.93
1.667	5.84	0.84	0.391	O I	|	|	|	|	1.02
1.750	6.23	1.97	0.423	O I	|	|	|	|	1.09
1.833	6.71	2.95	0.451	|O I	|	|	|	|	1.15
1.917	7.20	3.82	0.476	|O I	|	|	|	|	1.20
2.000	7.68	4.61	0.498	| OI	|	|	|	|	1.25
2.083	8.10	5.32	0.518	| OI	|	|	|	|	1.29
2.167	8.91	6.01	0.538	| O I	|	|	|	|	1.34
2.250	10.75	6.84	0.561	| O I	|	|	|	|	1.39
2.333	13.48	7.99	0.593	| O I	|	|	|	|	1.46
2.417	18.36	9.72	0.642	| O I	|	|	|	|	1.56
2.500	26.22	12.45	0.719	| O | I	|	|	|	|	1.73
2.583	37.12	16.64	0.837	| O| |I	|	|	|	|	1.99
2.667	49.46	19.03	1.012	| O | I|	|	|	|	|	2.32
2.750	60.05	22.03	1.248	| | O | | I |	|	|	|	|	2.76
2.833	67.53	24.93	1.526	| | O | | | I|	|	|	|	|	3.24
2.917	68.42	27.36	1.814	| | O | | | I	|	|	|	|	3.71
3.000	61.95	29.34	2.067	| | O | | I |	|	|	|	|	4.11
3.083	50.63	30.47	2.249	| | O | | I|	|	|	|	|	4.36
3.167	38.56	31.06	2.344	| | O | I |	|	|	|	|	4.50
3.250	29.32	31.18	2.364	| | IO | |	|	|	|	|	4.53
3.333	23.12	30.97	2.330	| | I O | |	|	|	|	|	4.48
3.417	18.82	30.55	2.263	| I O | |	|	|	|	|	4.38
3.500	15.97	30.00	2.174	| I| O | |	|	|	|	|	4.26
3.583	13.89	29.37	2.073	| I | O | |	|	|	|	|	4.11
3.667	12.22	28.62	1.963	| I | O | |	|	|	|	|	3.95
3.750	10.92	27.66	1.849	| I | O | |	|	|	|	|	3.77
3.833	9.76	26.68	1.733	| I | O | |	|	|	|	|	3.58
3.917	8.66	25.69	1.616	| I | O | |	|	|	|	|	3.39
4.000	7.86	24.70	1.499	| I | O | |	|	|	|	|	3.20
4.083	7.13	23.73	1.384	| I | O | |	|	|	|	|	3.01
4.167	6.46	22.34	1.272	| I | O | |	|	|	|	|	2.81
4.250	5.86	20.98	1.166	| I |O | |	|	|	|	|	2.60
4.333	5.24	19.68	1.064	| I |O | |	|	|	|	|	2.41
4.417	4.79	18.45	0.967	| I | O | |	|	|	|	|	2.23
4.500	4.37	17.28	0.876	| I | O | |	|	|	|	|	2.06
4.583	4.01	15.07	0.793	|I | O| |	|	|	|	|	1.89
4.667	3.81	12.64	0.724	|I | O | |	|	|	|	|	1.74
4.750	3.62	10.70	0.670	|I | O | |	|	|	|	|	1.62
4.833	3.34	9.13	0.625	|I | O | |	|	|	|	|	1.53
4.917	3.06	7.84	0.589	|I O | |	|	|	|	|	1.45
5.000	2.77	6.77	0.559	|I O | |	|	|	|	|	1.38
5.083	2.52	5.87	0.533	|IO | |	|	|	|	|	1.33
5.167	2.35	5.12	0.512	|IO | |	|	|	|	|	1.28
5.250	2.15	4.50	0.495	|IO | |	|	|	|	|	1.24
5.333	1.96	3.97	0.480	IO | |	|	|	|	|	1.21
5.417	1.80	3.51	0.467	IO | |	|	|	|	|	1.18
5.500	1.62	3.12	0.456	IO | |	|	|	|	|	1.16
5.583	1.47	2.78	0.446	IO | |	|	|	|	|	1.14
5.667	1.34	2.48	0.438	IO | |	|	|	|	|	1.12
5.750	1.25	2.22	0.431	IO | |	|	|	|	|	1.11
5.833	1.21	2.00	0.424	O | |	|	|	|	|	1.09

5.917	1.17	1.83	0.419	O	|	|	|	1.08
6.000	1.07	1.67	0.415	O	|	|	|	1.07
6.083	0.98	1.53	0.411	O	|	|	|	1.06
6.167	0.87	1.40	0.407	O	|	|	|	1.05
6.250	0.64	1.26	0.403	O	|	|	|	1.05
6.333	0.37	1.10	0.399	O	|	|	|	1.04
6.417	0.13	0.91	0.394	O	|	|	|	1.03
6.500	0.03	0.73	0.389	O	|	|	|	1.01
6.583	0.02	0.58	0.384	O	|	|	|	1.00
6.667	0.01	0.50	0.381	O	|	|	|	1.00
6.750	0.00	0.49	0.377	O	|	|	|	0.99
6.833	0.00	0.49	0.374	O	|	|	|	0.98
6.917	0.00	0.48	0.370	O	|	|	|	0.97
7.000	0.00	0.48	0.367	O	|	|	|	0.96
7.083	0.00	0.48	0.364	O	|	|	|	0.95
7.167	0.00	0.47	0.361	O	|	|	|	0.94
7.250	0.00	0.47	0.357	O	|	|	|	0.94
7.333	0.00	0.46	0.354	O	|	|	|	0.93
7.417	0.00	0.46	0.351	O	|	|	|	0.92
7.500	0.00	0.46	0.348	O	|	|	|	0.91
7.583	0.00	0.45	0.345	O	|	|	|	0.90
7.667	0.00	0.45	0.342	O	|	|	|	0.89
7.750	0.00	0.44	0.339	O	|	|	|	0.89
7.833	0.00	0.44	0.335	O	|	|	|	0.88
7.917	0.00	0.44	0.332	O	|	|	|	0.87
8.000	0.00	0.43	0.329	O	|	|	|	0.86
8.083	0.00	0.43	0.327	O	|	|	|	0.85
8.167	0.00	0.42	0.324	O	|	|	|	0.85
8.250	0.00	0.42	0.321	O	|	|	|	0.84
8.333	0.00	0.42	0.318	O	|	|	|	0.83
8.417	0.00	0.41	0.315	O	|	|	|	0.82
8.500	0.00	0.41	0.312	O	|	|	|	0.82
8.583	0.00	0.40	0.309	O	|	|	|	0.81
8.667	0.00	0.40	0.307	O	|	|	|	0.80
8.750	0.00	0.40	0.304	O	|	|	|	0.80
8.833	0.00	0.39	0.301	O	|	|	|	0.79
8.917	0.00	0.39	0.298	O	|	|	|	0.78
9.000	0.00	0.39	0.296	O	|	|	|	0.77
9.083	0.00	0.38	0.293	O	|	|	|	0.77
9.167	0.00	0.38	0.290	O	|	|	|	0.76
9.250	0.00	0.38	0.288	O	|	|	|	0.75
9.333	0.00	0.37	0.285	O	|	|	|	0.75
9.417	0.00	0.37	0.283	O	|	|	|	0.74
9.500	0.00	0.37	0.280	O	|	|	|	0.73
9.583	0.00	0.36	0.278	O	|	|	|	0.73
9.667	0.00	0.36	0.275	O	|	|	|	0.72
9.750	0.00	0.36	0.273	O	|	|	|	0.71
9.833	0.00	0.35	0.270	O	|	|	|	0.71
9.917	0.00	0.35	0.268	O	|	|	|	0.70
10.000	0.00	0.35	0.265	O	|	|	|	0.69
10.083	0.00	0.34	0.263	O	|	|	|	0.69
10.167	0.00	0.34	0.261	O	|	|	|	0.68
10.250	0.00	0.34	0.258	O	|	|	|	0.68
10.333	0.00	0.34	0.256	O	|	|	|	0.67
10.417	0.00	0.33	0.254	O	|	|	|	0.66
10.500	0.00	0.33	0.251	O	|	|	|	0.66
10.583	0.00	0.33	0.249	O	|	|	|	0.65
10.667	0.00	0.32	0.247	O	|	|	|	0.65
10.750	0.00	0.32	0.245	O	|	|	|	0.64
10.833	0.00	0.32	0.243	O	|	|	|	0.63
10.917	0.00	0.31	0.240	O	|	|	|	0.63
11.000	0.00	0.31	0.238	O	|	|	|	0.62
11.083	0.00	0.31	0.236	O	|	|	|	0.62
11.167	0.00	0.31	0.234	O	|	|	|	0.61
11.250	0.00	0.30	0.232	O	|	|	|	0.61
11.333	0.00	0.30	0.230	O	|	|	|	0.60
11.417	0.00	0.30	0.228	O	|	|	|	0.60
11.500	0.00	0.30	0.226	O	|	|	|	0.59
11.583	0.00	0.29	0.224	O	|	|	|	0.59
11.667	0.00	0.29	0.222	O	|	|	|	0.58
11.750	0.00	0.29	0.220	O	|	|	|	0.57

11.833	0.00	0.28	0.218	O	|	|	|	| 0.57
11.917	0.00	0.28	0.216	O	|	|	|	| 0.56
12.000	0.00	0.28	0.214	O	|	|	|	| 0.56
12.083	0.00	0.28	0.212	O	|	|	|	| 0.55
12.167	0.00	0.27	0.210	O	|	|	|	| 0.55
12.250	0.00	0.27	0.208	O	|	|	|	| 0.54
12.333	0.00	0.27	0.206	O	|	|	|	| 0.54
12.417	0.00	0.27	0.204	O	|	|	|	| 0.53
12.500	0.00	0.27	0.203	O	|	|	|	| 0.53
12.583	0.00	0.26	0.201	O	|	|	|	| 0.53
12.667	0.00	0.26	0.199	O	|	|	|	| 0.52
12.750	0.00	0.26	0.197	O	|	|	|	| 0.52
12.833	0.00	0.26	0.195	O	|	|	|	| 0.51
12.917	0.00	0.25	0.194	O	|	|	|	| 0.51
13.000	0.00	0.25	0.192	O	|	|	|	| 0.50
13.083	0.00	0.25	0.190	O	|	|	|	| 0.50
13.167	0.00	0.25	0.188	O	|	|	|	| 0.49
13.250	0.00	0.24	0.187	O	|	|	|	| 0.49
13.333	0.00	0.24	0.185	O	|	|	|	| 0.48
13.417	0.00	0.24	0.183	O	|	|	|	| 0.48
13.500	0.00	0.24	0.182	O	|	|	|	| 0.48
13.583	0.00	0.24	0.180	O	|	|	|	| 0.47
13.667	0.00	0.23	0.178	O	|	|	|	| 0.47
13.750	0.00	0.23	0.177	O	|	|	|	| 0.46
13.833	0.00	0.23	0.175	O	|	|	|	| 0.46
13.917	0.00	0.23	0.174	O	|	|	|	| 0.45
14.000	0.00	0.23	0.172	O	|	|	|	| 0.45
14.083	0.00	0.22	0.171	O	|	|	|	| 0.45
14.167	0.00	0.22	0.169	O	|	|	|	| 0.44
14.250	0.00	0.22	0.168	O	|	|	|	| 0.44
14.333	0.00	0.22	0.166	O	|	|	|	| 0.43
14.417	0.00	0.22	0.165	O	|	|	|	| 0.43
14.500	0.00	0.21	0.163	O	|	|	|	| 0.43
14.583	0.00	0.21	0.162	O	|	|	|	| 0.42
14.667	0.00	0.21	0.160	O	|	|	|	| 0.42
14.750	0.00	0.21	0.159	O	|	|	|	| 0.42
14.833	0.00	0.21	0.157	O	|	|	|	| 0.41
14.917	0.00	0.20	0.156	O	|	|	|	| 0.41
15.000	0.00	0.20	0.155	O	|	|	|	| 0.40
15.083	0.00	0.20	0.153	O	|	|	|	| 0.40
15.167	0.00	0.20	0.152	O	|	|	|	| 0.40
15.250	0.00	0.20	0.150	O	|	|	|	| 0.39
15.333	0.00	0.20	0.149	O	|	|	|	| 0.39
15.417	0.00	0.19	0.148	O	|	|	|	| 0.39
15.500	0.00	0.19	0.146	O	|	|	|	| 0.38
15.583	0.00	0.19	0.145	O	|	|	|	| 0.38
15.667	0.00	0.19	0.144	O	|	|	|	| 0.38
15.750	0.00	0.19	0.142	O	|	|	|	| 0.37
15.833	0.00	0.18	0.141	O	|	|	|	| 0.37
15.917	0.00	0.18	0.140	O	|	|	|	| 0.37
16.000	0.00	0.18	0.139	O	|	|	|	| 0.36
16.083	0.00	0.18	0.137	O	|	|	|	| 0.36
16.167	0.00	0.18	0.136	O	|	|	|	| 0.36
16.250	0.00	0.18	0.135	O	|	|	|	| 0.35
16.333	0.00	0.18	0.134	O	|	|	|	| 0.35
16.417	0.00	0.17	0.133	O	|	|	|	| 0.35
16.500	0.00	0.17	0.131	O	|	|	|	| 0.34
16.583	0.00	0.17	0.130	O	|	|	|	| 0.34
16.667	0.00	0.17	0.129	O	|	|	|	| 0.34
16.750	0.00	0.17	0.128	O	|	|	|	| 0.33
16.833	0.00	0.17	0.127	O	|	|	|	| 0.33
16.917	0.00	0.16	0.126	O	|	|	|	| 0.33
17.000	0.00	0.16	0.124	O	|	|	|	| 0.33
17.083	0.00	0.16	0.123	O	|	|	|	| 0.32
17.167	0.00	0.16	0.122	O	|	|	|	| 0.32
17.250	0.00	0.16	0.121	O	|	|	|	| 0.32
17.333	0.00	0.16	0.120	O	|	|	|	| 0.31
17.417	0.00	0.16	0.119	O	|	|	|	| 0.31
17.500	0.00	0.15	0.118	O	|	|	|	| 0.31
17.583	0.00	0.15	0.117	O	|	|	|	| 0.31
17.667	0.00	0.15	0.116	O	|	|	|	| 0.30

17.750	0.00	0.15	0.115	O	|	|	|	|	0.30
17.833	0.00	0.15	0.114	O	|	|	|	|	0.30
17.917	0.00	0.15	0.113	O	|	|	|	|	0.30
18.000	0.00	0.15	0.112	O	|	|	|	|	0.29
18.083	0.00	0.14	0.111	O	|	|	|	|	0.29
18.167	0.00	0.14	0.110	O	|	|	|	|	0.29
18.250	0.00	0.14	0.109	O	|	|	|	|	0.28
18.333	0.00	0.14	0.108	O	|	|	|	|	0.28
18.417	0.00	0.14	0.107	O	|	|	|	|	0.28
18.500	0.00	0.14	0.106	O	|	|	|	|	0.28
18.583	0.00	0.14	0.105	O	|	|	|	|	0.27
18.667	0.00	0.14	0.104	O	|	|	|	|	0.27
18.750	0.00	0.13	0.103	O	|	|	|	|	0.27
18.833	0.00	0.13	0.102	O	|	|	|	|	0.27
18.917	0.00	0.13	0.101	O	|	|	|	|	0.26
19.000	0.00	0.13	0.100	O	|	|	|	|	0.26
19.083	0.00	0.13	0.099	O	|	|	|	|	0.26
19.167	0.00	0.13	0.098	O	|	|	|	|	0.26
19.250	0.00	0.13	0.098	O	|	|	|	|	0.26
19.333	0.00	0.13	0.097	O	|	|	|	|	0.25
19.417	0.00	0.13	0.096	O	|	|	|	|	0.25
19.500	0.00	0.12	0.095	O	|	|	|	|	0.25
19.583	0.00	0.12	0.094	O	|	|	|	|	0.25
19.667	0.00	0.12	0.093	O	|	|	|	|	0.24
19.750	0.00	0.12	0.092	O	|	|	|	|	0.24
19.833	0.00	0.12	0.092	O	|	|	|	|	0.24
19.917	0.00	0.12	0.091	O	|	|	|	|	0.24
20.000	0.00	0.12	0.090	O	|	|	|	|	0.24
20.083	0.00	0.12	0.089	O	|	|	|	|	0.23
20.167	0.00	0.12	0.088	O	|	|	|	|	0.23
20.250	0.00	0.11	0.088	O	|	|	|	|	0.23
20.333	0.00	0.11	0.087	O	|	|	|	|	0.23
20.417	0.00	0.11	0.086	O	|	|	|	|	0.23
20.500	0.00	0.11	0.085	O	|	|	|	|	0.22
20.583	0.00	0.11	0.084	O	|	|	|	|	0.22
20.667	0.00	0.11	0.084	O	|	|	|	|	0.22
20.750	0.00	0.11	0.083	O	|	|	|	|	0.22
20.833	0.00	0.11	0.082	O	|	|	|	|	0.22
20.917	0.00	0.11	0.081	O	|	|	|	|	0.21
21.000	0.00	0.11	0.081	O	|	|	|	|	0.21
21.083	0.00	0.10	0.080	O	|	|	|	|	0.21
21.167	0.00	0.10	0.079	O	|	|	|	|	0.21
21.250	0.00	0.10	0.079	O	|	|	|	|	0.21
21.333	0.00	0.10	0.078	O	|	|	|	|	0.20
21.417	0.00	0.10	0.077	O	|	|	|	|	0.20
21.500	0.00	0.10	0.076	O	|	|	|	|	0.20
21.583	0.00	0.10	0.076	O	|	|	|	|	0.20
21.667	0.00	0.10	0.075	O	|	|	|	|	0.20
21.750	0.00	0.10	0.074	O	|	|	|	|	0.19
21.833	0.00	0.10	0.074	O	|	|	|	|	0.19
21.917	0.00	0.10	0.073	O	|	|	|	|	0.19
22.000	0.00	0.09	0.072	O	|	|	|	|	0.19
22.083	0.00	0.09	0.072	O	|	|	|	|	0.19
22.167	0.00	0.09	0.071	O	|	|	|	|	0.19
22.250	0.00	0.09	0.071	O	|	|	|	|	0.18
22.333	0.00	0.09	0.070	O	|	|	|	|	0.18
22.417	0.00	0.09	0.069	O	|	|	|	|	0.18
22.500	0.00	0.09	0.069	O	|	|	|	|	0.18
22.583	0.00	0.09	0.068	O	|	|	|	|	0.18
22.667	0.00	0.09	0.067	O	|	|	|	|	0.18
22.750	0.00	0.09	0.067	O	|	|	|	|	0.17
22.833	0.00	0.09	0.066	O	|	|	|	|	0.17
22.917	0.00	0.09	0.066	O	|	|	|	|	0.17
23.000	0.00	0.09	0.065	O	|	|	|	|	0.17
23.083	0.00	0.08	0.064	O	|	|	|	|	0.17
23.167	0.00	0.08	0.064	O	|	|	|	|	0.17
23.250	0.00	0.08	0.063	O	|	|	|	|	0.17
23.333	0.00	0.08	0.063	O	|	|	|	|	0.16
23.417	0.00	0.08	0.062	O	|	|	|	|	0.16
23.500	0.00	0.08	0.062	O	|	|	|	|	0.16
23.583	0.00	0.08	0.061	O	|	|	|	|	0.16

23.667	0.00	0.08	0.061	O	|	|	|	| 0.16
23.750	0.00	0.08	0.060	O	|	|	|	| 0.16
23.833	0.00	0.08	0.059	O	|	|	|	| 0.16
23.917	0.00	0.08	0.059	O	|	|	|	| 0.15
24.000	0.00	0.08	0.058	O	|	|	|	| 0.15
24.083	0.00	0.08	0.058	O	|	|	|	| 0.15
24.167	0.00	0.08	0.057	O	|	|	|	| 0.15
24.250	0.00	0.07	0.057	O	|	|	|	| 0.15
24.333	0.00	0.07	0.056	O	|	|	|	| 0.15
24.417	0.00	0.07	0.056	O	|	|	|	| 0.15
24.500	0.00	0.07	0.055	O	|	|	|	| 0.14
24.583	0.00	0.07	0.055	O	|	|	|	| 0.14
24.667	0.00	0.07	0.054	O	|	|	|	| 0.14
24.750	0.00	0.07	0.054	O	|	|	|	| 0.14
24.833	0.00	0.07	0.053	O	|	|	|	| 0.14
24.917	0.00	0.07	0.053	O	|	|	|	| 0.14
25.000	0.00	0.07	0.052	O	|	|	|	| 0.14
25.083	0.00	0.07	0.052	O	|	|	|	| 0.14
25.167	0.00	0.07	0.051	O	|	|	|	| 0.13
25.250	0.00	0.07	0.051	O	|	|	|	| 0.13
25.333	0.00	0.07	0.051	O	|	|	|	| 0.13
25.417	0.00	0.07	0.050	O	|	|	|	| 0.13
25.500	0.00	0.06	0.050	O	|	|	|	| 0.13
25.583	0.00	0.06	0.049	O	|	|	|	| 0.13
25.667	0.00	0.06	0.049	O	|	|	|	| 0.13
25.750	0.00	0.06	0.048	O	|	|	|	| 0.13
25.833	0.00	0.06	0.048	O	|	|	|	| 0.13
25.917	0.00	0.06	0.047	O	|	|	|	| 0.12
26.000	0.00	0.06	0.047	O	|	|	|	| 0.12
26.083	0.00	0.06	0.047	O	|	|	|	| 0.12
26.167	0.00	0.06	0.046	O	|	|	|	| 0.12
26.250	0.00	0.06	0.046	O	|	|	|	| 0.12
26.333	0.00	0.06	0.045	O	|	|	|	| 0.12
26.417	0.00	0.06	0.045	O	|	|	|	| 0.12
26.500	0.00	0.06	0.045	O	|	|	|	| 0.12
26.583	0.00	0.06	0.044	O	|	|	|	| 0.12
26.667	0.00	0.06	0.044	O	|	|	|	| 0.11
26.750	0.00	0.06	0.043	O	|	|	|	| 0.11
26.833	0.00	0.06	0.043	O	|	|	|	| 0.11
26.917	0.00	0.06	0.043	O	|	|	|	| 0.11
27.000	0.00	0.06	0.042	O	|	|	|	| 0.11
27.083	0.00	0.05	0.042	O	|	|	|	| 0.11
27.167	0.00	0.05	0.041	O	|	|	|	| 0.11
27.250	0.00	0.05	0.041	O	|	|	|	| 0.11
27.333	0.00	0.05	0.041	O	|	|	|	| 0.11
27.417	0.00	0.05	0.040	O	|	|	|	| 0.11
27.500	0.00	0.05	0.040	O	|	|	|	| 0.10
27.583	0.00	0.05	0.040	O	|	|	|	| 0.10
27.667	0.00	0.05	0.039	O	|	|	|	| 0.10
27.750	0.00	0.05	0.039	O	|	|	|	| 0.10
27.833	0.00	0.05	0.039	O	|	|	|	| 0.10
27.917	0.00	0.05	0.038	O	|	|	|	| 0.10
28.000	0.00	0.05	0.038	O	|	|	|	| 0.10
28.083	0.00	0.05	0.038	O	|	|	|	| 0.10
28.167	0.00	0.05	0.037	O	|	|	|	| 0.10
28.250	0.00	0.05	0.037	O	|	|	|	| 0.10
28.333	0.00	0.05	0.037	O	|	|	|	| 0.10
28.417	0.00	0.05	0.036	O	|	|	|	| 0.09
28.500	0.00	0.05	0.036	O	|	|	|	| 0.09
28.583	0.00	0.05	0.036	O	|	|	|	| 0.09
28.667	0.00	0.05	0.035	O	|	|	|	| 0.09
28.750	0.00	0.05	0.035	O	|	|	|	| 0.09
28.833	0.00	0.05	0.035	O	|	|	|	| 0.09
28.917	0.00	0.04	0.034	O	|	|	|	| 0.09
29.000	0.00	0.04	0.034	O	|	|	|	| 0.09
29.083	0.00	0.04	0.034	O	|	|	|	| 0.09
29.167	0.00	0.04	0.033	O	|	|	|	| 0.09
29.250	0.00	0.04	0.033	O	|	|	|	| 0.09
29.333	0.00	0.04	0.033	O	|	|	|	| 0.09
29.417	0.00	0.04	0.032	O	|	|	|	| 0.09
29.500	0.00	0.04	0.032	O	|	|	|	| 0.08

29.583	0.00	0.04	0.032	O	|	|	|	|	0.08
29.667	0.00	0.04	0.032	O	|	|	|	|	0.08
29.750	0.00	0.04	0.031	O	|	|	|	|	0.08
29.833	0.00	0.04	0.031	O	|	|	|	|	0.08
29.917	0.00	0.04	0.031	O	|	|	|	|	0.08
30.000	0.00	0.04	0.031	O	|	|	|	|	0.08
30.083	0.00	0.04	0.030	O	|	|	|	|	0.08
30.167	0.00	0.04	0.030	O	|	|	|	|	0.08
30.250	0.00	0.04	0.030	O	|	|	|	|	0.08
30.333	0.00	0.04	0.029	O	|	|	|	|	0.08
30.417	0.00	0.04	0.029	O	|	|	|	|	0.08
30.500	0.00	0.04	0.029	O	|	|	|	|	0.08
30.583	0.00	0.04	0.029	O	|	|	|	|	0.07
30.667	0.00	0.04	0.028	O	|	|	|	|	0.07
30.750	0.00	0.04	0.028	O	|	|	|	|	0.07
30.833	0.00	0.04	0.028	O	|	|	|	|	0.07
30.917	0.00	0.04	0.028	O	|	|	|	|	0.07
31.000	0.00	0.04	0.027	O	|	|	|	|	0.07
31.083	0.00	0.04	0.027	O	|	|	|	|	0.07
31.167	0.00	0.04	0.027	O	|	|	|	|	0.07
31.250	0.00	0.03	0.027	O	|	|	|	|	0.07
31.333	0.00	0.03	0.026	O	|	|	|	|	0.07
31.417	0.00	0.03	0.026	O	|	|	|	|	0.07
31.500	0.00	0.03	0.026	O	|	|	|	|	0.07
31.583	0.00	0.03	0.026	O	|	|	|	|	0.07
31.667	0.00	0.03	0.025	O	|	|	|	|	0.07
31.750	0.00	0.03	0.025	O	|	|	|	|	0.07
31.833	0.00	0.03	0.025	O	|	|	|	|	0.07
31.917	0.00	0.03	0.025	O	|	|	|	|	0.06
32.000	0.00	0.03	0.025	O	|	|	|	|	0.06
32.083	0.00	0.03	0.024	O	|	|	|	|	0.06
32.167	0.00	0.03	0.024	O	|	|	|	|	0.06
32.250	0.00	0.03	0.024	O	|	|	|	|	0.06
32.333	0.00	0.03	0.024	O	|	|	|	|	0.06
32.417	0.00	0.03	0.023	O	|	|	|	|	0.06
32.500	0.00	0.03	0.023	O	|	|	|	|	0.06
32.583	0.00	0.03	0.023	O	|	|	|	|	0.06
32.667	0.00	0.03	0.023	O	|	|	|	|	0.06
32.750	0.00	0.03	0.023	O	|	|	|	|	0.06
32.833	0.00	0.03	0.022	O	|	|	|	|	0.06
32.917	0.00	0.03	0.022	O	|	|	|	|	0.06
33.000	0.00	0.03	0.022	O	|	|	|	|	0.06
33.083	0.00	0.03	0.022	O	|	|	|	|	0.06
33.167	0.00	0.03	0.022	O	|	|	|	|	0.06
33.250	0.00	0.03	0.021	O	|	|	|	|	0.06
33.333	0.00	0.03	0.021	O	|	|	|	|	0.06
33.417	0.00	0.03	0.021	O	|	|	|	|	0.06
33.500	0.00	0.03	0.021	O	|	|	|	|	0.05
33.583	0.00	0.03	0.021	O	|	|	|	|	0.05
33.667	0.00	0.03	0.021	O	|	|	|	|	0.05
33.750	0.00	0.03	0.020	O	|	|	|	|	0.05
33.833	0.00	0.03	0.020	O	|	|	|	|	0.05
33.917	0.00	0.03	0.020	O	|	|	|	|	0.05
34.000	0.00	0.03	0.020	O	|	|	|	|	0.05
34.083	0.00	0.03	0.020	O	|	|	|	|	0.05
34.167	0.00	0.03	0.019	O	|	|	|	|	0.05
34.250	0.00	0.03	0.019	O	|	|	|	|	0.05
34.333	0.00	0.02	0.019	O	|	|	|	|	0.05
34.417	0.00	0.02	0.019	O	|	|	|	|	0.05
34.500	0.00	0.02	0.019	O	|	|	|	|	0.05
34.583	0.00	0.02	0.019	O	|	|	|	|	0.05
34.667	0.00	0.02	0.018	O	|	|	|	|	0.05
34.750	0.00	0.02	0.018	O	|	|	|	|	0.05
34.833	0.00	0.02	0.018	O	|	|	|	|	0.05
34.917	0.00	0.02	0.018	O	|	|	|	|	0.05
35.000	0.00	0.02	0.018	O	|	|	|	|	0.05
35.083	0.00	0.02	0.018	O	|	|	|	|	0.05
35.167	0.00	0.02	0.017	O	|	|	|	|	0.05
35.250	0.00	0.02	0.017	O	|	|	|	|	0.05
35.333	0.00	0.02	0.017	O	|	|	|	|	0.04
35.417	0.00	0.02	0.017	O	|	|	|	|	0.04

35.500	0.00	0.02	0.017	O	|	|	|	|	0.04
35.583	0.00	0.02	0.017	O	|	|	|	|	0.04
35.667	0.00	0.02	0.017	O	|	|	|	|	0.04
35.750	0.00	0.02	0.016	O	|	|	|	|	0.04
35.833	0.00	0.02	0.016	O	|	|	|	|	0.04
35.917	0.00	0.02	0.016	O	|	|	|	|	0.04
36.000	0.00	0.02	0.016	O	|	|	|	|	0.04
36.083	0.00	0.02	0.016	O	|	|	|	|	0.04
36.167	0.00	0.02	0.016	O	|	|	|	|	0.04
36.250	0.00	0.02	0.016	O	|	|	|	|	0.04
36.333	0.00	0.02	0.015	O	|	|	|	|	0.04
36.417	0.00	0.02	0.015	O	|	|	|	|	0.04
36.500	0.00	0.02	0.015	O	|	|	|	|	0.04
36.583	0.00	0.02	0.015	O	|	|	|	|	0.04
36.667	0.00	0.02	0.015	O	|	|	|	|	0.04
36.750	0.00	0.02	0.015	O	|	|	|	|	0.04
36.833	0.00	0.02	0.015	O	|	|	|	|	0.04
36.917	0.00	0.02	0.014	O	|	|	|	|	0.04
37.000	0.00	0.02	0.014	O	|	|	|	|	0.04
37.083	0.00	0.02	0.014	O	|	|	|	|	0.04
37.167	0.00	0.02	0.014	O	|	|	|	|	0.04
37.250	0.00	0.02	0.014	O	|	|	|	|	0.04
37.333	0.00	0.02	0.014	O	|	|	|	|	0.04
37.417	0.00	0.02	0.014	O	|	|	|	|	0.04
37.500	0.00	0.02	0.014	O	|	|	|	|	0.04
37.583	0.00	0.02	0.013	O	|	|	|	|	0.04
37.667	0.00	0.02	0.013	O	|	|	|	|	0.03
37.750	0.00	0.02	0.013	O	|	|	|	|	0.03
37.833	0.00	0.02	0.013	O	|	|	|	|	0.03
37.917	0.00	0.02	0.013	O	|	|	|	|	0.03
38.000	0.00	0.02	0.013	O	|	|	|	|	0.03
38.083	0.00	0.02	0.013	O	|	|	|	|	0.03
38.167	0.00	0.02	0.013	O	|	|	|	|	0.03
38.250	0.00	0.02	0.012	O	|	|	|	|	0.03
38.333	0.00	0.02	0.012	O	|	|	|	|	0.03
38.417	0.00	0.02	0.012	O	|	|	|	|	0.03
38.500	0.00	0.02	0.012	O	|	|	|	|	0.03
38.583	0.00	0.02	0.012	O	|	|	|	|	0.03
38.667	0.00	0.02	0.012	O	|	|	|	|	0.03
38.750	0.00	0.02	0.012	O	|	|	|	|	0.03
38.833	0.00	0.02	0.012	O	|	|	|	|	0.03
38.917	0.00	0.02	0.012	O	|	|	|	|	0.03
39.000	0.00	0.02	0.012	O	|	|	|	|	0.03
39.083	0.00	0.01	0.011	O	|	|	|	|	0.03
39.167	0.00	0.01	0.011	O	|	|	|	|	0.03
39.250	0.00	0.01	0.011	O	|	|	|	|	0.03
39.333	0.00	0.01	0.011	O	|	|	|	|	0.03
39.417	0.00	0.01	0.011	O	|	|	|	|	0.03
39.500	0.00	0.01	0.011	O	|	|	|	|	0.03
39.583	0.00	0.01	0.011	O	|	|	|	|	0.03
39.667	0.00	0.01	0.011	O	|	|	|	|	0.03
39.750	0.00	0.01	0.011	O	|	|	|	|	0.03
39.833	0.00	0.01	0.011	O	|	|	|	|	0.03
39.917	0.00	0.01	0.010	O	|	|	|	|	0.03
40.000	0.00	0.01	0.010	O	|	|	|	|	0.03
40.083	0.00	0.01	0.010	O	|	|	|	|	0.03
40.167	0.00	0.01	0.010	O	|	|	|	|	0.03
40.250	0.00	0.01	0.010	O	|	|	|	|	0.03
40.333	0.00	0.01	0.010	O	|	|	|	|	0.03
40.417	0.00	0.01	0.010	O	|	|	|	|	0.03
40.500	0.00	0.01	0.010	O	|	|	|	|	0.03
40.583	0.00	0.01	0.010	O	|	|	|	|	0.03
40.667	0.00	0.01	0.010	O	|	|	|	|	0.03
40.750	0.00	0.01	0.010	O	|	|	|	|	0.02
40.833	0.00	0.01	0.009	O	|	|	|	|	0.02
40.917	0.00	0.01	0.009	O	|	|	|	|	0.02
41.000	0.00	0.01	0.009	O	|	|	|	|	0.02
41.083	0.00	0.01	0.009	O	|	|	|	|	0.02
41.167	0.00	0.01	0.009	O	|	|	|	|	0.02
41.250	0.00	0.01	0.009	O	|	|	|	|	0.02
41.333	0.00	0.01	0.009	O	|	|	|	|	0.02

41.417	0.00	0.01	0.009	O	|	|	|	|	0.02
41.500	0.00	0.01	0.009	O	|	|	|	|	0.02
41.583	0.00	0.01	0.009	O	|	|	|	|	0.02
41.667	0.00	0.01	0.009	O	|	|	|	|	0.02
41.750	0.00	0.01	0.009	O	|	|	|	|	0.02
41.833	0.00	0.01	0.008	O	|	|	|	|	0.02
41.917	0.00	0.01	0.008	O	|	|	|	|	0.02
42.000	0.00	0.01	0.008	O	|	|	|	|	0.02
42.083	0.00	0.01	0.008	O	|	|	|	|	0.02
42.167	0.00	0.01	0.008	O	|	|	|	|	0.02
42.250	0.00	0.01	0.008	O	|	|	|	|	0.02
42.333	0.00	0.01	0.008	O	|	|	|	|	0.02
42.417	0.00	0.01	0.008	O	|	|	|	|	0.02
42.500	0.00	0.01	0.008	O	|	|	|	|	0.02
42.583	0.00	0.01	0.008	O	|	|	|	|	0.02
42.667	0.00	0.01	0.008	O	|	|	|	|	0.02
42.750	0.00	0.01	0.008	O	|	|	|	|	0.02
42.833	0.00	0.01	0.008	O	|	|	|	|	0.02
42.917	0.00	0.01	0.008	O	|	|	|	|	0.02
43.000	0.00	0.01	0.007	O	|	|	|	|	0.02
43.083	0.00	0.01	0.007	O	|	|	|	|	0.02
43.167	0.00	0.01	0.007	O	|	|	|	|	0.02
43.250	0.00	0.01	0.007	O	|	|	|	|	0.02
43.333	0.00	0.01	0.007	O	|	|	|	|	0.02
43.417	0.00	0.01	0.007	O	|	|	|	|	0.02
43.500	0.00	0.01	0.007	O	|	|	|	|	0.02
43.583	0.00	0.01	0.007	O	|	|	|	|	0.02
43.667	0.00	0.01	0.007	O	|	|	|	|	0.02
43.750	0.00	0.01	0.007	O	|	|	|	|	0.02
43.833	0.00	0.01	0.007	O	|	|	|	|	0.02
43.917	0.00	0.01	0.007	O	|	|	|	|	0.02
44.000	0.00	0.01	0.007	O	|	|	|	|	0.02
44.083	0.00	0.01	0.007	O	|	|	|	|	0.02
44.167	0.00	0.01	0.007	O	|	|	|	|	0.02
44.250	0.00	0.01	0.007	O	|	|	|	|	0.02
44.333	0.00	0.01	0.006	O	|	|	|	|	0.02
44.417	0.00	0.01	0.006	O	|	|	|	|	0.02
44.500	0.00	0.01	0.006	O	|	|	|	|	0.02
44.583	0.00	0.01	0.006	O	|	|	|	|	0.02
44.667	0.00	0.01	0.006	O	|	|	|	|	0.02
44.750	0.00	0.01	0.006	O	|	|	|	|	0.02
44.833	0.00	0.01	0.006	O	|	|	|	|	0.02
44.917	0.00	0.01	0.006	O	|	|	|	|	0.02
45.000	0.00	0.01	0.006	O	|	|	|	|	0.02
45.083	0.00	0.01	0.006	O	|	|	|	|	0.02
45.167	0.00	0.01	0.006	O	|	|	|	|	0.02
45.250	0.00	0.01	0.006	O	|	|	|	|	0.02
45.333	0.00	0.01	0.006	O	|	|	|	|	0.02
45.417	0.00	0.01	0.006	O	|	|	|	|	0.02
45.500	0.00	0.01	0.006	O	|	|	|	|	0.01
45.583	0.00	0.01	0.006	O	|	|	|	|	0.01
45.667	0.00	0.01	0.006	O	|	|	|	|	0.01
45.750	0.00	0.01	0.006	O	|	|	|	|	0.01
45.833	0.00	0.01	0.006	O	|	|	|	|	0.01
45.917	0.00	0.01	0.005	O	|	|	|	|	0.01
46.000	0.00	0.01	0.005	O	|	|	|	|	0.01
46.083	0.00	0.01	0.005	O	|	|	|	|	0.01
46.167	0.00	0.01	0.005	O	|	|	|	|	0.01
46.250	0.00	0.01	0.005	O	|	|	|	|	0.01
46.333	0.00	0.01	0.005	O	|	|	|	|	0.01
46.417	0.00	0.01	0.005	O	|	|	|	|	0.01
46.500	0.00	0.01	0.005	O	|	|	|	|	0.01
46.583	0.00	0.01	0.005	O	|	|	|	|	0.01
46.667	0.00	0.01	0.005	O	|	|	|	|	0.01
46.750	0.00	0.01	0.005	O	|	|	|	|	0.01
46.833	0.00	0.01	0.005	O	|	|	|	|	0.01
46.917	0.00	0.01	0.005	O	|	|	|	|	0.01
47.000	0.00	0.01	0.005	O	|	|	|	|	0.01
47.083	0.00	0.01	0.005	O	|	|	|	|	0.01
47.167	0.00	0.01	0.005	O	|	|	|	|	0.01
47.250	0.00	0.01	0.005	O	|	|	|	|	0.01

47.333	0.00	0.01	0.005	O	|	|	|	|	0.01
47.417	0.00	0.01	0.005	O	|	|	|	|	0.01
47.500	0.00	0.01	0.005	O	|	|	|	|	0.01
47.583	0.00	0.01	0.005	O	|	|	|	|	0.01
47.667	0.00	0.01	0.005	O	|	|	|	|	0.01
47.750	0.00	0.01	0.004	O	|	|	|	|	0.01
47.833	0.00	0.01	0.004	O	|	|	|	|	0.01
47.917	0.00	0.01	0.004	O	|	|	|	|	0.01
48.000	0.00	0.01	0.004	O	|	|	|	|	0.01
48.083	0.00	0.01	0.004	O	|	|	|	|	0.01
48.167	0.00	0.01	0.004	O	|	|	|	|	0.01
48.250	0.00	0.01	0.004	O	|	|	|	|	0.01
48.333	0.00	0.01	0.004	O	|	|	|	|	0.01
48.417	0.00	0.01	0.004	O	|	|	|	|	0.01
48.500	0.00	0.01	0.004	O	|	|	|	|	0.01
48.583	0.00	0.01	0.004	O	|	|	|	|	0.01
48.667	0.00	0.01	0.004	O	|	|	|	|	0.01
48.750	0.00	0.01	0.004	O	|	|	|	|	0.01
48.833	0.00	0.01	0.004	O	|	|	|	|	0.01
48.917	0.00	0.01	0.004	O	|	|	|	|	0.01
49.000	0.00	0.01	0.004	O	|	|	|	|	0.01
49.083	0.00	0.01	0.004	O	|	|	|	|	0.01
49.167	0.00	0.01	0.004	O	|	|	|	|	0.01
49.250	0.00	0.00	0.004	O	|	|	|	|	0.01
49.333	0.00	0.00	0.004	O	|	|	|	|	0.01
49.417	0.00	0.00	0.004	O	|	|	|	|	0.01
49.500	0.00	0.00	0.004	O	|	|	|	|	0.01
49.583	0.00	0.00	0.004	O	|	|	|	|	0.01
49.667	0.00	0.00	0.004	O	|	|	|	|	0.01
49.750	0.00	0.00	0.004	O	|	|	|	|	0.01
49.833	0.00	0.00	0.004	O	|	|	|	|	0.01
49.917	0.00	0.00	0.004	O	|	|	|	|	0.01
50.000	0.00	0.00	0.004	O	|	|	|	|	0.01
50.083	0.00	0.00	0.003	O	|	|	|	|	0.01
50.167	0.00	0.00	0.003	O	|	|	|	|	0.01
50.250	0.00	0.00	0.003	O	|	|	|	|	0.01
50.333	0.00	0.00	0.003	O	|	|	|	|	0.01
50.417	0.00	0.00	0.003	O	|	|	|	|	0.01
50.500	0.00	0.00	0.003	O	|	|	|	|	0.01
50.583	0.00	0.00	0.003	O	|	|	|	|	0.01
50.667	0.00	0.00	0.003	O	|	|	|	|	0.01
50.750	0.00	0.00	0.003	O	|	|	|	|	0.01
50.833	0.00	0.00	0.003	O	|	|	|	|	0.01
50.917	0.00	0.00	0.003	O	|	|	|	|	0.01
51.000	0.00	0.00	0.003	O	|	|	|	|	0.01
51.083	0.00	0.00	0.003	O	|	|	|	|	0.01
51.167	0.00	0.00	0.003	O	|	|	|	|	0.01
51.250	0.00	0.00	0.003	O	|	|	|	|	0.01
51.333	0.00	0.00	0.003	O	|	|	|	|	0.01
51.417	0.00	0.00	0.003	O	|	|	|	|	0.01
51.500	0.00	0.00	0.003	O	|	|	|	|	0.01
51.583	0.00	0.00	0.003	O	|	|	|	|	0.01
51.667	0.00	0.00	0.003	O	|	|	|	|	0.01
51.750	0.00	0.00	0.003	O	|	|	|	|	0.01
51.833	0.00	0.00	0.003	O	|	|	|	|	0.01
51.917	0.00	0.00	0.003	O	|	|	|	|	0.01
52.000	0.00	0.00	0.003	O	|	|	|	|	0.01
52.083	0.00	0.00	0.003	O	|	|	|	|	0.01
52.167	0.00	0.00	0.003	O	|	|	|	|	0.01
52.250	0.00	0.00	0.003	O	|	|	|	|	0.01
52.333	0.00	0.00	0.003	O	|	|	|	|	0.01
52.417	0.00	0.00	0.003	O	|	|	|	|	0.01
52.500	0.00	0.00	0.003	O	|	|	|	|	0.01
52.583	0.00	0.00	0.003	O	|	|	|	|	0.01
52.667	0.00	0.00	0.003	O	|	|	|	|	0.01
52.750	0.00	0.00	0.003	O	|	|	|	|	0.01
52.833	0.00	0.00	0.003	O	|	|	|	|	0.01
52.917	0.00	0.00	0.003	O	|	|	|	|	0.01
53.000	0.00	0.00	0.003	O	|	|	|	|	0.01
53.083	0.00	0.00	0.003	O	|	|	|	|	0.01
53.167	0.00	0.00	0.002	O	|	|	|	|	0.01

53.250	0.00	0.00	0.002	O	|	|	|	|	0.01
53.333	0.00	0.00	0.002	O	|	|	|	|	0.01
53.417	0.00	0.00	0.002	O	|	|	|	|	0.01
53.500	0.00	0.00	0.002	O	|	|	|	|	0.01
53.583	0.00	0.00	0.002	O	|	|	|	|	0.01
53.667	0.00	0.00	0.002	O	|	|	|	|	0.01
53.750	0.00	0.00	0.002	O	|	|	|	|	0.01
53.833	0.00	0.00	0.002	O	|	|	|	|	0.01
53.917	0.00	0.00	0.002	O	|	|	|	|	0.01
54.000	0.00	0.00	0.002	O	|	|	|	|	0.01
54.083	0.00	0.00	0.002	O	|	|	|	|	0.01
54.167	0.00	0.00	0.002	O	|	|	|	|	0.01
54.250	0.00	0.00	0.002	O	|	|	|	|	0.01
54.333	0.00	0.00	0.002	O	|	|	|	|	0.01
54.417	0.00	0.00	0.002	O	|	|	|	|	0.01
54.500	0.00	0.00	0.002	O	|	|	|	|	0.01
54.583	0.00	0.00	0.002	O	|	|	|	|	0.01
54.667	0.00	0.00	0.002	O	|	|	|	|	0.01
54.750	0.00	0.00	0.002	O	|	|	|	|	0.01
54.833	0.00	0.00	0.002	O	|	|	|	|	0.01
54.917	0.00	0.00	0.002	O	|	|	|	|	0.01
55.000	0.00	0.00	0.002	O	|	|	|	|	0.01
55.083	0.00	0.00	0.002	O	|	|	|	|	0.01
55.167	0.00	0.00	0.002	O	|	|	|	|	0.01
55.250	0.00	0.00	0.002	O	|	|	|	|	0.01
55.333	0.00	0.00	0.002	O	|	|	|	|	0.01
55.417	0.00	0.00	0.002	O	|	|	|	|	0.01
55.500	0.00	0.00	0.002	O	|	|	|	|	0.01
55.583	0.00	0.00	0.002	O	|	|	|	|	0.01
55.667	0.00	0.00	0.002	O	|	|	|	|	0.00
55.750	0.00	0.00	0.002	O	|	|	|	|	0.00
55.833	0.00	0.00	0.002	O	|	|	|	|	0.00
55.917	0.00	0.00	0.002	O	|	|	|	|	0.00
56.000	0.00	0.00	0.002	O	|	|	|	|	0.00
56.083	0.00	0.00	0.002	O	|	|	|	|	0.00
56.167	0.00	0.00	0.002	O	|	|	|	|	0.00
56.250	0.00	0.00	0.002	O	|	|	|	|	0.00
56.333	0.00	0.00	0.002	O	|	|	|	|	0.00
56.417	0.00	0.00	0.002	O	|	|	|	|	0.00
56.500	0.00	0.00	0.002	O	|	|	|	|	0.00
56.583	0.00	0.00	0.002	O	|	|	|	|	0.00
56.667	0.00	0.00	0.002	O	|	|	|	|	0.00
56.750	0.00	0.00	0.002	O	|	|	|	|	0.00
56.833	0.00	0.00	0.002	O	|	|	|	|	0.00
56.917	0.00	0.00	0.002	O	|	|	|	|	0.00
57.000	0.00	0.00	0.002	O	|	|	|	|	0.00
57.083	0.00	0.00	0.002	O	|	|	|	|	0.00
57.167	0.00	0.00	0.002	O	|	|	|	|	0.00
57.250	0.00	0.00	0.002	O	|	|	|	|	0.00
57.333	0.00	0.00	0.002	O	|	|	|	|	0.00
57.417	0.00	0.00	0.002	O	|	|	|	|	0.00
57.500	0.00	0.00	0.002	O	|	|	|	|	0.00
57.583	0.00	0.00	0.002	O	|	|	|	|	0.00
57.667	0.00	0.00	0.002	O	|	|	|	|	0.00
57.750	0.00	0.00	0.002	O	|	|	|	|	0.00
57.833	0.00	0.00	0.002	O	|	|	|	|	0.00
57.917	0.00	0.00	0.001	O	|	|	|	|	0.00
58.000	0.00	0.00	0.001	O	|	|	|	|	0.00
58.083	0.00	0.00	0.001	O	|	|	|	|	0.00
58.167	0.00	0.00	0.001	O	|	|	|	|	0.00
58.250	0.00	0.00	0.001	O	|	|	|	|	0.00
58.333	0.00	0.00	0.001	O	|	|	|	|	0.00
58.417	0.00	0.00	0.001	O	|	|	|	|	0.00
58.500	0.00	0.00	0.001	O	|	|	|	|	0.00
58.583	0.00	0.00	0.001	O	|	|	|	|	0.00
58.667	0.00	0.00	0.001	O	|	|	|	|	0.00
58.750	0.00	0.00	0.001	O	|	|	|	|	0.00
58.833	0.00	0.00	0.001	O	|	|	|	|	0.00
58.917	0.00	0.00	0.001	O	|	|	|	|	0.00
59.000	0.00	0.00	0.001	O	|	|	|	|	0.00
59.083	0.00	0.00	0.001	O	|	|	|	|	0.00

```
59.167    0.00    0.00      0.001  O       |       |       |       |     0.00
59.250    0.00    0.00      0.001  O       |       |       |       |     0.00
59.333    0.00    0.00      0.001  O       |       |       |       |     0.00
59.417    0.00    0.00      0.001  O       |       |       |       |     0.00
59.500    0.00    0.00      0.001  O       |       |       |       |     0.00
59.583    0.00    0.00      0.001  O       |       |       |       |     0.00
59.667    0.00    0.00      0.001  O       |       |       |       |     0.00
59.750    0.00    0.00      0.001  O       |       |       |       |     0.00
59.833    0.00    0.00      0.001  O       |       |       |       |     0.00
59.917    0.00    0.00      0.001  O       |       |       |       |     0.00
60.000    0.00    0.00      0.001  O       |       |       |       |     0.00
60.083    0.00    0.00      0.001  O       |       |       |       |     0.00
60.167    0.00    0.00      0.001  O       |       |       |       |     0.00
60.250    0.00    0.00      0.001  O       |       |       |       |     0.00
60.333    0.00    0.00      0.001  O       |       |       |       |     0.00
60.417    0.00    0.00      0.001  O       |       |       |       |     0.00
60.500    0.00    0.00      0.001  O       |       |       |       |     0.00
60.583    0.00    0.00      0.001  O       |       |       |       |     0.00
60.667    0.00    0.00      0.001  O       |       |       |       |     0.00
60.750    0.00    0.00      0.001  O       |       |       |       |     0.00
60.833    0.00    0.00      0.001  O       |       |       |       |     0.00
60.917    0.00    0.00      0.001  O       |       |       |       |     0.00
61.000    0.00    0.00      0.001  O       |       |       |       |     0.00
61.083    0.00    0.00      0.001  O       |       |       |       |     0.00
61.167    0.00    0.00      0.001  O       |       |       |       |     0.00
61.250    0.00    0.00      0.001  O       |       |       |       |     0.00
61.333    0.00    0.00      0.001  O       |       |       |       |     0.00
61.417    0.00    0.00      0.001  O       |       |       |       |     0.00
61.500    0.00    0.00      0.001  O       |       |       |       |     0.00
61.583    0.00    0.00      0.001  O       |       |       |       |     0.00
61.667    0.00    0.00      0.001  O       |       |       |       |     0.00
61.750    0.00    0.00      0.001  O       |       |       |       |     0.00
61.833    0.00    0.00      0.001  O       |       |       |       |     0.00
61.917    0.00    0.00      0.001  O       |       |       |       |     0.00
62.000    0.00    0.00      0.001  O       |       |       |       |     0.00
62.083    0.00    0.00      0.001  O       |       |       |       |     0.00
62.167    0.00    0.00      0.001  O       |       |       |       |     0.00
62.250    0.00    0.00      0.001  O       |       |       |       |     0.00
62.333    0.00    0.00      0.001  O       |       |       |       |     0.00
62.417    0.00    0.00      0.001  O       |       |       |       |     0.00
62.500    0.00    0.00      0.001  O       |       |       |       |     0.00
62.583    0.00    0.00      0.001  O       |       |       |       |     0.00
62.667    0.00    0.00      0.001  O       |       |       |       |     0.00
62.750    0.00    0.00      0.001  O       |       |       |       |     0.00
62.833    0.00    0.00      0.001  O       |       |       |       |     0.00
62.917    0.00    0.00      0.001  O       |       |       |       |     0.00
63.000    0.00    0.00      0.001  O       |       |       |       |     0.00
63.083    0.00    0.00      0.001  O       |       |       |       |     0.00
63.167    0.00    0.00      0.001  O       |       |       |       |     0.00
63.250    0.00    0.00      0.001  O       |       |       |       |     0.00
63.333    0.00    0.00      0.001  O       |       |       |       |     0.00
63.417    0.00    0.00      0.001  O       |       |       |       |     0.00
63.500    0.00    0.00      0.001  O       |       |       |       |     0.00
63.583    0.00    0.00      0.001  O       |       |       |       |     0.00
63.667    0.00    0.00      0.001  O       |       |       |       |     0.00
63.750    0.00    0.00      0.001  O       |       |       |       |     0.00
63.833    0.00    0.00      0.001  O       |       |       |       |     0.00
63.917    0.00    0.00      0.001  O       |       |       |       |     0.00
64.000    0.00    0.00      0.001  O       |       |       |       |     0.00
64.083    0.00    0.00      0.001  O       |       |       |       |     0.00

    ****************************HYDROGRAPH DATA****************************
                Number of intervals =   769
                Time interval =    5.0 (Min.)
                Maximum/Peak flow rate =       31.179 (CFS)
                Total volume =       5.775 (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
```

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                    FLOOD HYDROGRAPH ROUTING PROGRAM
                Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2022
                            Study date: 11/21/22


      ----------------------------------------------------------------------


      OFFSITE TRIBUTARY AREA TO VERNON/RAMONA EXPRESSWAY
      10 YEAR/24 HOUR STORM ROUTING


      ----------------------------------------------------------------------


      Program License Serial Number 6556

      ----------------------------------------------------------------------
      ******************** HYDROGRAPH INFORMATION **********************

                    From study/file name: tr34271offsite2410.rte
      ****************************HYDROGRAPH DATA***************************
                    Number of intervals =   333
                    Time interval =    5.0 (Min.)
                    Maximum/Peak flow rate =       7.707 (CFS)
                    Total volume =       5.090 (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        1.000 to Point/Station        2.000
      **** RETARDING BASIN ROUTING ****
      ________________________________________________________________________

      User entry of depth-outflow-storage data
      ----------------------------------------------------------------------
      Total number of inflow hydrograph intervals = 333
      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  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
           (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)    (Ac.Ft)
      ----------------------------------------------------------------------
        0.000      0.000      0.000      0.000        0.000
        1.000      0.382      0.500      0.380        0.384
        2.000      0.844     16.880      0.786        0.902
        3.000      1.376     23.660      1.295        1.457
        4.000      1.992     28.870      1.893        2.091
        5.000      2.699     33.260      2.584        2.814
        6.000      3.510     37.120      3.382        3.638
        7.000      4.473     40.620      4.333        4.613
      ----------------------------------------------------------------------
                    Hydrograph Detention Basin Routing
      ----------------------------------------------------------------------

      Graph values: 'I'= unit inflow; 'O'=outflow at time shown
      ----------------------------------------------------------------------
Time   Inflow  Outflow    Storage                                        Depth
```

(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	1.9	3.85	5.78	7.71 (Ft.)
0.083	0.01	0.00	0.000	O	|	|	|	| 0.00
0.167	0.03	0.00	0.000	O	|	|	|	| 0.00
0.250	0.06	0.00	0.000	O	|	|	|	| 0.00
0.333	0.12	0.00	0.001	O	|	|	|	| 0.00
0.417	0.19	0.00	0.002	O	|	|	|	| 0.01
0.500	0.27	0.00	0.004	OI	|	|	|	| 0.01
0.583	0.34	0.01	0.006	OI	|	|	|	| 0.01
0.667	0.40	0.01	0.008	OI	|	|	|	| 0.02
0.750	0.46	0.01	0.011	OI	|	|	|	| 0.03
0.833	0.50	0.02	0.014	O I	|	|	|	| 0.04
0.917	0.55	0.02	0.018	O I	|	|	|	| 0.05
1.000	0.59	0.03	0.021	O I	|	|	|	| 0.06
1.083	0.63	0.03	0.025	O I	|	|	|	| 0.07
1.167	0.66	0.04	0.030	O I	|	|	|	| 0.08
1.250	0.69	0.04	0.034	O I	|	|	|	| 0.09
1.333	0.70	0.05	0.039	O I	|	|	|	| 0.10
1.417	0.70	0.06	0.043	O I	|	|	|	| 0.11
1.500	0.69	0.06	0.047	O I	|	|	|	| 0.12
1.583	0.69	0.07	0.052	O I	|	|	|	| 0.14
1.667	0.68	0.07	0.056	O I	|	|	|	| 0.15
1.750	0.69	0.08	0.060	O I	|	|	|	| 0.16
1.833	0.69	0.08	0.064	O I	|	|	|	| 0.17
1.917	0.71	0.09	0.068	O I	|	|	|	| 0.18
2.000	0.73	0.10	0.073	O I	|	|	|	| 0.19
2.083	0.76	0.10	0.077	O I	|	|	|	| 0.20
2.167	0.79	0.11	0.082	O I	|	|	|	| 0.21
2.250	0.82	0.11	0.087	O I	|	|	|	| 0.23
2.333	0.85	0.12	0.092	O I	|	|	|	| 0.24
2.417	0.87	0.13	0.097	O I	|	|	|	| 0.25
2.500	0.88	0.13	0.102	O I	|	|	|	| 0.27
2.583	0.90	0.14	0.107	O I	|	|	|	| 0.28
2.667	0.92	0.15	0.112	O I	|	|	|	| 0.29
2.750	0.94	0.15	0.118	O I	|	|	|	| 0.31
2.833	0.98	0.16	0.123	O I	|	|	|	| 0.32
2.917	1.01	0.17	0.129	O I	|	|	|	| 0.34
3.000	1.05	0.18	0.135	O I	|	|	|	| 0.35
3.083	1.08	0.18	0.141	O I	|	|	|	| 0.37
3.167	1.10	0.19	0.147	O I	|	|	|	| 0.38
3.250	1.12	0.20	0.153	O I	|	|	|	| 0.40
3.333	1.13	0.21	0.160	O I	|	|	|	| 0.42
3.417	1.14	0.22	0.166	O I	|	|	|	| 0.43
3.500	1.15	0.23	0.172	O I	|	|	|	| 0.45
3.583	1.16	0.23	0.179	O I	|	|	|	| 0.47
3.667	1.16	0.24	0.185	|O I	|	|	|	| 0.48
3.750	1.17	0.25	0.191	|O I	|	|	|	| 0.50
3.833	1.18	0.26	0.198	|O I	|	|	|	| 0.52
3.917	1.20	0.27	0.204	|O I	|	|	|	| 0.53
4.000	1.22	0.28	0.211	|O I	|	|	|	| 0.55
4.083	1.25	0.28	0.217	|O I	|	|	|	| 0.57
4.167	1.28	0.29	0.224	|O I	|	|	|	| 0.59
4.250	1.31	0.30	0.231	|O I	|	|	|	| 0.60
4.333	1.35	0.31	0.238	|O I	|	|	|	| 0.62
4.417	1.38	0.32	0.245	|O I	|	|	|	| 0.64
4.500	1.41	0.33	0.252	|O I	|	|	|	| 0.66
4.583	1.44	0.34	0.260	|O I	|	|	|	| 0.68
4.667	1.48	0.35	0.268	|O I	|	|	|	| 0.70
4.750	1.52	0.36	0.275	|O I	|	|	|	| 0.72
4.833	1.56	0.37	0.283	|O I	|	|	|	| 0.74
4.917	1.59	0.38	0.292	|O I	|	|	|	| 0.76
5.000	1.62	0.39	0.300	|O I	|	|	|	| 0.79
5.083	1.66	0.40	0.309	|O I	|	|	|	| 0.81
5.167	1.68	0.42	0.317	|O I	|	|	|	| 0.83
5.250	1.68	0.43	0.326	|O I	|	|	|	| 0.85
5.333	1.67	0.44	0.335	|O I	|	|	|	| 0.88
5.417	1.64	0.45	0.343	|O I	|	|	|	| 0.90
5.500	1.62	0.46	0.351	|O I	|	|	|	| 0.92
5.583	1.62	0.47	0.359	|O I	|	|	|	| 0.94
5.667	1.63	0.48	0.367	|O I	|	|	|	| 0.96
5.750	1.67	0.49	0.375	| O I	|	|	|	| 0.98
5.833	1.71	0.53	0.383	| O I	|	|	|	| 1.00

5.917	1.75	0.80	0.390	O I				1.02
6.000	1.79	1.01	0.396	O I				1.03
6.083	1.82	1.18	0.401	O I				1.04
6.167	1.86	1.33	0.405	O I				1.05
6.250	1.89	1.44	0.409	O I				1.06
6.333	1.93	1.55	0.411	O I				1.06
6.417	1.97	1.63	0.414	O I				1.07
6.500	2.01	1.71	0.416	OI				1.07
6.583	2.04	1.78	0.418	OI				1.08
6.667	2.08	1.84	0.420	OI				1.08
6.750	2.11	1.89	0.421	OI				1.09
6.833	2.15	1.95	0.423	O				1.09
6.917	2.19	1.99	0.424	OI				1.09
7.000	2.23	2.04	0.425	OI				1.09
7.083	2.27	2.09	0.427	OI				1.10
7.167	2.29	2.13	0.428	OI				1.10
7.250	2.31	2.17	0.429	OI				1.10
7.333	2.33	2.20	0.430	O				1.10
7.417	2.35	2.23	0.431	O				1.11
7.500	2.38	2.26	0.432	O				1.11
7.583	2.42	2.29	0.433	OI				1.11
7.667	2.47	2.33	0.433	OI				1.11
7.750	2.53	2.36	0.435	OI				1.11
7.833	2.59	2.41	0.436	OI				1.12
7.917	2.65	2.45	0.437	OI				1.12
8.000	2.72	2.50	0.438	OI				1.12
8.083	2.79	2.56	0.440	OI				1.13
8.167	2.87	2.62	0.442	OI				1.13
8.250	2.96	2.68	0.444	OI				1.13
8.333	3.05	2.75	0.445	OI				1.14
8.417	3.14	2.83	0.448	O I				1.14
8.500	3.23	2.90	0.450	OI				1.15
8.583	3.30	2.98	0.452	OI				1.15
8.667	3.36	3.06	0.454	OI				1.16
8.750	3.42	3.13	0.456	O I				1.16
8.833	3.48	3.20	0.458	OI				1.16
8.917	3.55	3.27	0.460	OI				1.17
9.000	3.62	3.34	0.462	O I				1.17
9.083	3.70	3.41	0.464	OI				1.18
9.167	3.78	3.48	0.466	OI				1.18
9.250	3.88	3.56	0.468	O I				1.19
9.333	3.98	3.64	0.470	OI				1.19
9.417	4.09	3.72	0.473	OI				1.20
9.500	4.20	3.81	0.475	O I				1.20
9.583	4.30	3.91	0.478	OI				1.21
9.667	4.39	4.00	0.481	O I				1.21
9.750	4.48	4.10	0.483	OI				1.22
9.833	4.57	4.19	0.486	OI				1.23
9.917	4.66	4.28	0.489	O I				1.23
10.000	4.75	4.38	0.491	OI				1.24
10.083	4.80	4.46	0.494	OI				1.24
10.167	4.80	4.54	0.496	OI				1.25
10.250	4.75	4.59	0.497	O				1.25
10.333	4.62	4.61	0.498	O				1.25
10.417	4.46	4.59	0.497	IO				1.25
10.500	4.28	4.54	0.496	IO				1.25
10.583	4.16	4.47	0.494	IO				1.24
10.667	4.12	4.40	0.492	IO				1.24
10.750	4.15	4.34	0.490	IO				1.23
10.833	4.23	4.31	0.489	O				1.23
10.917	4.35	4.31	0.489	OI				1.23
11.000	4.48	4.33	0.490	OI				1.23
11.083	4.58	4.37	0.491	OI				1.24
11.167	4.63	4.42	0.493	OI				1.24
11.250	4.66	4.47	0.494	OI				1.24
11.333	4.66	4.51	0.495	OI				1.24
11.417	4.66	4.54	0.496	OI				1.25
11.500	4.65	4.57	0.497	OI				1.25
11.583	4.63	4.58	0.497	O				1.25
11.667	4.61	4.59	0.497	O				1.25
11.750	4.57	4.59	0.497	IO				1.25

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11.833    4.53    4.58      0.497  |        |        | IO    |       |     1.25
11.917    4.48    4.56      0.497  |        |        | O     |       |     1.25
12.000    4.44    4.54      0.496  |        |        | O     |       |     1.25
12.083    4.45    4.52      0.495  |        |        | O     |       |     1.25
12.167    4.52    4.51      0.495  |        |        | O     |       |     1.24
12.250    4.65    4.53      0.496  |        |        | OI    |       |     1.25
12.333    4.84    4.58      0.497  |        |        | O I   |       |     1.25
12.417    5.06    4.66      0.499  |        |        |  O I  |       |     1.25
12.500    5.30    4.77      0.502  |        |        |  O I  |       |     1.26
12.583    5.50    4.91      0.506  |        |        |   O I |       |     1.27
12.667    5.66    5.05      0.510  |        |        |   O  I|       |     1.28
12.750    5.81    5.20      0.515  |        |        |    O  I       |     1.29
12.833    5.95    5.35      0.519  |        |        |     O I       |     1.30
12.917    6.09    5.50      0.523  |        |        |     O |I      |     1.30
13.000    6.22    5.64      0.527  |        |        |      O|I      |     1.31
13.083    6.35    5.78      0.531  |        |        |      O| I     |     1.32
13.167    6.51    5.92      0.535  |        |        |       O  I    |     1.33
13.250    6.69    6.07      0.539  |        |        |       |O I   |     1.34
13.333    6.90    6.23      0.544  |        |        |       |O  I   |     1.35
13.417    7.14    6.40      0.548  |        |        |       | O  I  |     1.36
13.500    7.42    6.59      0.554  |        |        |       |  O  I |     1.37
13.583    7.62    6.79      0.559  |        |        |       |   O  I|     1.38
13.667    7.71    6.98      0.565  |        |        |       |   O   I     1.40
13.750    7.66    7.13      0.569  |        |        |       |    O I|     1.41
13.833    7.46    7.23      0.572  |        |        |       |     O |     1.41
13.917    7.15    7.24      0.572  |        |        |       |    IO |     1.41
14.000    6.78    7.18      0.570  |        |        |       |   IO  |     1.41
14.083    6.51    7.07      0.567  |        |        |       |  I O  |     1.40
14.167    6.37    6.93      0.563  |        |        |       | I O   |     1.39
14.250    6.32    6.80      0.560  |        |        |       | I O   |     1.38
14.333    6.34    6.70      0.557  |        |        |       | IO    |     1.38
14.417    6.40    6.63      0.555  |        |        |       | IO    |     1.37
14.500    6.45    6.58      0.554  |        |        |       | IO    |     1.37
14.583    6.48    6.56      0.553  |        |        |       | IO    |     1.37
14.667    6.49    6.54      0.552  |        |        |       | IO    |     1.37
14.750    6.47    6.53      0.552  |        |        |       | IO    |     1.37
14.833    6.46    6.51      0.552  |        |        |       | IO    |     1.37
14.917    6.44    6.50      0.551  |        |        |       | O     |     1.37
15.000    6.41    6.48      0.551  |        |        |       | O     |     1.37
15.083    6.38    6.46      0.550  |        |        |       | O     |     1.36
15.167    6.33    6.44      0.550  |        |        |       | O     |     1.36
15.250    6.28    6.41      0.549  |        |        |       | O     |     1.36
15.333    6.23    6.38      0.548  |        |        |       |IO     |     1.36
15.417    6.17    6.34      0.547  |        |        |       |IO     |     1.36
15.500    6.11    6.29      0.545  |        |        |       |IO     |     1.35
15.583    6.03    6.24      0.544  |        |        |       |O      |     1.35
15.667    5.94    6.19      0.542  |        |        |       IO      |     1.35
15.750    5.82    6.12      0.541  |        |        |       IO      |     1.34
15.833    5.68    6.04      0.538  |        |        |      I|O     |     1.34
15.917    5.52    5.94      0.536  |        |        |     I O       |     1.33
16.000    5.38    5.84      0.533  |        |        |     I O       |     1.33
16.083    5.20    5.72      0.529  |        |        |    I O|       |     1.32
16.167    4.96    5.58      0.525  |        |        |   I  O|       |     1.31
16.250    4.63    5.41      0.520  |        |        |  I  O |       |     1.30
16.333    4.21    5.19      0.514  |        |        |I   O  |       |     1.29
16.417    3.71    4.93      0.507  |        |      I|   O   |       |     1.27
16.500    3.22    4.61      0.498  |        |    I  |  O    |       |     1.25
16.583    2.82    4.26      0.488  |        |  I    |O      |       |     1.23
16.667    2.54    3.92      0.478  |        | I     O       |       |     1.21
16.750    2.31    3.59      0.469  |        |I    O |       |       |     1.19
16.833    2.13    3.29      0.461  |        I    O  |       |       |     1.17
16.917    1.98    3.02      0.453  |        I   O   |       |       |     1.15
17.000    1.83    2.78      0.446  |      I|  O    |       |       |     1.14
17.083    1.72    2.56      0.440  |      I| O     |       |       |     1.13
17.167    1.64    2.37      0.435  |     I |O      |       |       |     1.11
17.250    1.58    2.20      0.430  |     I |O      |       |       |     1.10
17.333    1.55    2.07      0.426  |     I O       |       |       |     1.10
17.417    1.55    1.95      0.423  |     I O       |       |       |     1.09
17.500    1.55    1.87      0.421  |     IO|       |       |       |     1.08
17.583    1.55    1.80      0.419  |     IO|       |       |       |     1.08
17.667    1.53    1.74      0.417  |     IO|       |       |       |     1.08
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17.750	1.51	1.69	0.416	IO				1.07
17.833	1.49	1.65	0.414	O				1.07
17.917	1.45	1.61	0.413	O				1.07
18.000	1.42	1.57	0.412	IO				1.07
18.083	1.37	1.53	0.411	IO				1.06
18.167	1.32	1.49	0.410	IO				1.06
18.250	1.27	1.45	0.409	IO				1.06
18.333	1.23	1.41	0.408	O				1.06
18.417	1.20	1.37	0.406	IO				1.05
18.500	1.17	1.33	0.405	IO				1.05
18.583	1.15	1.29	0.404	IO				1.05
18.667	1.12	1.26	0.403	IO				1.05
18.750	1.08	1.22	0.402	IO				1.04
18.833	1.04	1.19	0.401	O				1.04
18.917	0.98	1.15	0.400	O				1.04
19.000	0.92	1.10	0.399	IO				1.04
19.083	0.86	1.06	0.398	IO				1.03
19.167	0.81	1.01	0.396	IO				1.03
19.250	0.78	0.96	0.395	O				1.03
19.333	0.77	0.92	0.394	O				1.03
19.417	0.78	0.89	0.393	O				1.02
19.500	0.80	0.87	0.392	O				1.02
19.583	0.82	0.86	0.392	O				1.02
19.667	0.84	0.85	0.392	O				1.02
19.750	0.85	0.85	0.392	O				1.02
19.833	0.84	0.85	0.392	O				1.02
19.917	0.82	0.84	0.392	O				1.02
20.000	0.78	0.83	0.391	O				1.02
20.083	0.74	0.82	0.391	O				1.02
20.167	0.71	0.80	0.390	IO				1.02
20.250	0.69	0.78	0.390	IO				1.02
20.333	0.68	0.76	0.389	IO				1.02
20.417	0.69	0.74	0.389	IO				1.01
20.500	0.71	0.73	0.389	IO				1.01
20.583	0.72	0.73	0.388	O				1.01
20.667	0.73	0.73	0.388	O				1.01
20.750	0.74	0.73	0.388	O				1.01
20.833	0.73	0.73	0.388	O				1.01
20.917	0.72	0.73	0.388	O				1.01
21.000	0.71	0.73	0.388	IO				1.01
21.083	0.68	0.72	0.388	O				1.01
21.167	0.66	0.71	0.388	O				1.01
21.250	0.65	0.70	0.388	O				1.01
21.333	0.65	0.69	0.387	O				1.01
21.417	0.65	0.68	0.387	O				1.01
21.500	0.65	0.67	0.387	O				1.01
21.583	0.64	0.67	0.387	O				1.01
21.667	0.63	0.66	0.387	O				1.01
21.750	0.63	0.65	0.386	O				1.01
21.833	0.63	0.65	0.386	O				1.01
21.917	0.63	0.64	0.386	O				1.01
22.000	0.64	0.64	0.386	O				1.01
22.083	0.63	0.64	0.386	O				1.01
22.167	0.62	0.64	0.386	O				1.01
22.250	0.62	0.63	0.386	O				1.01
22.333	0.62	0.63	0.386	O				1.01
22.417	0.62	0.63	0.386	O				1.01
22.500	0.63	0.63	0.386	O				1.01
22.583	0.62	0.63	0.386	O				1.01
22.667	0.60	0.62	0.385	O				1.01
22.750	0.58	0.62	0.385	O				1.01
22.833	0.56	0.61	0.385	O				1.01
22.917	0.55	0.60	0.385	O				1.01
23.000	0.54	0.58	0.384	O				1.01
23.083	0.53	0.57	0.384	O				1.00
23.167	0.53	0.56	0.384	O				1.00
23.250	0.52	0.56	0.384	O				1.00
23.333	0.52	0.55	0.383	O				1.00
23.417	0.52	0.54	0.383	O				1.00
23.500	0.51	0.54	0.383	O				1.00
23.583	0.51	0.53	0.383	O				1.00

23.667	0.51	0.53	0.383	| O	|	|	|	1.00
23.750	0.51	0.52	0.383	| O	|	|	|	1.00
23.833	0.51	0.52	0.383	| O	|	|	|	1.00
23.917	0.51	0.52	0.382	| O	|	|	|	1.00
24.000	0.50	0.51	0.382	| O	|	|	|	1.00
24.083	0.50	0.51	0.382	| O	|	|	|	1.00
24.167	0.47	0.51	0.382	|IO	|	|	|	1.00
24.250	0.44	0.50	0.382	|IO	|	|	|	1.00
24.333	0.39	0.50	0.381	|IO	|	|	|	1.00
24.417	0.32	0.50	0.380	|IO	|	|	|	1.00
24.500	0.26	0.50	0.379	|IO	|	|	|	0.99
24.583	0.21	0.49	0.377	I O	|	|	|	0.99
24.667	0.18	0.49	0.375	I O	|	|	|	0.98
24.750	0.15	0.49	0.373	I O	|	|	|	0.98
24.833	0.14	0.48	0.370	I O	|	|	|	0.97
24.917	0.12	0.48	0.368	I O	|	|	|	0.96
25.000	0.11	0.48	0.366	IO	|	|	|	0.96
25.083	0.10	0.48	0.363	IO	|	|	|	0.95
25.167	0.09	0.47	0.360	IO	|	|	|	0.94
25.250	0.08	0.47	0.358	IO	|	|	|	0.94
25.333	0.07	0.46	0.355	IO	|	|	|	0.93
25.417	0.07	0.46	0.352	IO	|	|	|	0.92
25.500	0.06	0.46	0.350	IO	|	|	|	0.92
25.583	0.05	0.45	0.347	IO	|	|	|	0.91
25.667	0.05	0.45	0.344	IO	|	|	|	0.90
25.750	0.04	0.45	0.341	IO	|	|	|	0.89
25.833	0.04	0.44	0.339	IO	|	|	|	0.89
25.917	0.04	0.44	0.336	IO	|	|	|	0.88
26.000	0.03	0.44	0.333	IO	|	|	|	0.87
26.083	0.03	0.43	0.330	IO	|	|	|	0.86
26.167	0.03	0.43	0.327	IO	|	|	|	0.86
26.250	0.02	0.42	0.325	IO	|	|	|	0.85
26.333	0.02	0.42	0.322	IO	|	|	|	0.84
26.417	0.02	0.42	0.319	IO	|	|	|	0.84
26.500	0.02	0.41	0.316	IO	|	|	|	0.83
26.583	0.02	0.41	0.314	IO	|	|	|	0.82
26.667	0.01	0.41	0.311	IO	|	|	|	0.81
26.750	0.01	0.40	0.308	IO	|	|	|	0.81
26.833	0.01	0.40	0.306	IO	|	|	|	0.80
26.917	0.01	0.40	0.303	IO	|	|	|	0.79
27.000	0.01	0.39	0.300	IO	|	|	|	0.79
27.083	0.01	0.39	0.298	IO	|	|	|	0.78
27.167	0.01	0.39	0.295	IO	|	|	|	0.77
27.250	0.01	0.38	0.292	IO	|	|	|	0.77
27.333	0.00	0.38	0.290	IO	|	|	|	0.76
27.417	0.00	0.38	0.287	IO	|	|	|	0.75
27.500	0.00	0.37	0.285	IO	|	|	|	0.75
27.583	0.00	0.37	0.282	IO	|	|	|	0.74
27.667	0.00	0.37	0.280	IO	|	|	|	0.73
27.750	0.00	0.36	0.277	IO	|	|	|	0.73
27.833	0.00	0.36	0.275	IO	|	|	|	0.72
27.917	0.00	0.36	0.272	IO	|	|	|	0.71
28.000	0.00	0.35	0.270	IO	|	|	|	0.71
28.083	0.00	0.35	0.267	IO	|	|	|	0.70
28.167	0.00	0.35	0.265	IO	|	|	|	0.69
28.250	0.00	0.34	0.263	IO	|	|	|	0.69
28.333	0.00	0.34	0.260	IO	|	|	|	0.68
28.417	0.00	0.34	0.258	IO	|	|	|	0.68
28.500	0.00	0.33	0.256	IO	|	|	|	0.67
28.583	0.00	0.33	0.253	IO	|	|	|	0.66
28.667	0.00	0.33	0.251	IO	|	|	|	0.66
28.750	0.00	0.33	0.249	IO	|	|	|	0.65
28.833	0.00	0.32	0.247	IO	|	|	|	0.65
28.917	0.00	0.32	0.244	IO	|	|	|	0.64
29.000	0.00	0.32	0.242	IO	|	|	|	0.63
29.083	0.00	0.31	0.240	IO	|	|	|	0.63
29.167	0.00	0.31	0.238	IO	|	|	|	0.62
29.250	0.00	0.31	0.236	IO	|	|	|	0.62
29.333	0.00	0.31	0.234	IO	|	|	|	0.61
29.417	0.00	0.30	0.231	IO	|	|	|	0.61
29.500	0.00	0.30	0.229	IO	|	|	|	0.60

29.583	0.00	0.30	0.227	IO				0.60
29.667	0.00	0.29	0.225	IO				0.59
29.750	0.00	0.29	0.223	IO				0.58
29.833	0.00	0.29	0.221	IO				0.58
29.917	0.00	0.29	0.219	IO				0.57
30.000	0.00	0.28	0.217	IO				0.57
30.083	0.00	0.28	0.215	IO				0.56
30.167	0.00	0.28	0.213	IO				0.56
30.250	0.00	0.28	0.211	IO				0.55
30.333	0.00	0.27	0.210	IO				0.55
30.417	0.00	0.27	0.208	IO				0.54
30.500	0.00	0.27	0.206	IO				0.54
30.583	0.00	0.27	0.204	IO				0.53
30.667	0.00	0.26	0.202	IO				0.53
30.750	0.00	0.26	0.200	IO				0.52
30.833	0.00	0.26	0.199	IO				0.52
30.917	0.00	0.26	0.197	IO				0.52
31.000	0.00	0.26	0.195	IO				0.51
31.083	0.00	0.25	0.193	IO				0.51
31.167	0.00	0.25	0.192	IO				0.50
31.250	0.00	0.25	0.190	IO				0.50
31.333	0.00	0.25	0.188	IO				0.49
31.417	0.00	0.24	0.186	IO				0.49
31.500	0.00	0.24	0.185	IO				0.48
31.583	0.00	0.24	0.183	O				0.48
31.667	0.00	0.24	0.181	O				0.47
31.750	0.00	0.24	0.180	O				0.47
31.833	0.00	0.23	0.178	O				0.47
31.917	0.00	0.23	0.177	O				0.46
32.000	0.00	0.23	0.175	O				0.46
32.083	0.00	0.23	0.173	O				0.45
32.167	0.00	0.22	0.172	O				0.45
32.250	0.00	0.22	0.170	O				0.45
32.333	0.00	0.22	0.169	O				0.44
32.417	0.00	0.22	0.167	O				0.44
32.500	0.00	0.22	0.166	O				0.43
32.583	0.00	0.22	0.164	O				0.43
32.667	0.00	0.21	0.163	O				0.43
32.750	0.00	0.21	0.161	O				0.42
32.833	0.00	0.21	0.160	O				0.42
32.917	0.00	0.21	0.158	O				0.41
33.000	0.00	0.21	0.157	O				0.41
33.083	0.00	0.20	0.156	O				0.41
33.167	0.00	0.20	0.154	O				0.40
33.250	0.00	0.20	0.153	O				0.40
33.333	0.00	0.20	0.152	O				0.40
33.417	0.00	0.20	0.150	O				0.39
33.500	0.00	0.19	0.149	O				0.39
33.583	0.00	0.19	0.147	O				0.39
33.667	0.00	0.19	0.146	O				0.38
33.750	0.00	0.19	0.145	O				0.38
33.833	0.00	0.19	0.144	O				0.38
33.917	0.00	0.19	0.142	O				0.37
34.000	0.00	0.18	0.141	O				0.37
34.083	0.00	0.18	0.140	O				0.37
34.167	0.00	0.18	0.138	O				0.36
34.250	0.00	0.18	0.137	O				0.36
34.333	0.00	0.18	0.136	O				0.36
34.417	0.00	0.18	0.135	O				0.35
34.500	0.00	0.17	0.134	O				0.35
34.583	0.00	0.17	0.132	O				0.35
34.667	0.00	0.17	0.131	O				0.34
34.750	0.00	0.17	0.130	O				0.34
34.833	0.00	0.17	0.129	O				0.34
34.917	0.00	0.17	0.128	O				0.33
35.000	0.00	0.17	0.127	O				0.33
35.083	0.00	0.16	0.125	O				0.33
35.167	0.00	0.16	0.124	O				0.33
35.250	0.00	0.16	0.123	O				0.32
35.333	0.00	0.16	0.122	O				0.32
35.417	0.00	0.16	0.121	O				0.32

35.500	0.00	0.16	0.120	O	|	|	|	| 0.31
35.583	0.00	0.16	0.119	O	|	|	|	| 0.31
35.667	0.00	0.15	0.118	O	|	|	|	| 0.31
35.750	0.00	0.15	0.117	O	|	|	|	| 0.31
35.833	0.00	0.15	0.116	O	|	|	|	| 0.30
35.917	0.00	0.15	0.115	O	|	|	|	| 0.30
36.000	0.00	0.15	0.114	O	|	|	|	| 0.30
36.083	0.00	0.15	0.113	O	|	|	|	| 0.29
36.167	0.00	0.15	0.112	O	|	|	|	| 0.29
36.250	0.00	0.14	0.111	O	|	|	|	| 0.29
36.333	0.00	0.14	0.110	O	|	|	|	| 0.29
36.417	0.00	0.14	0.109	O	|	|	|	| 0.28
36.500	0.00	0.14	0.108	O	|	|	|	| 0.28
36.583	0.00	0.14	0.107	O	|	|	|	| 0.28
36.667	0.00	0.14	0.106	O	|	|	|	| 0.28
36.750	0.00	0.14	0.105	O	|	|	|	| 0.27
36.833	0.00	0.14	0.104	O	|	|	|	| 0.27
36.917	0.00	0.13	0.103	O	|	|	|	| 0.27
37.000	0.00	0.13	0.102	O	|	|	|	| 0.27
37.083	0.00	0.13	0.101	O	|	|	|	| 0.26
37.167	0.00	0.13	0.100	O	|	|	|	| 0.26
37.250	0.00	0.13	0.099	O	|	|	|	| 0.26
37.333	0.00	0.13	0.098	O	|	|	|	| 0.26
37.417	0.00	0.13	0.097	O	|	|	|	| 0.26
37.500	0.00	0.13	0.097	O	|	|	|	| 0.25
37.583	0.00	0.13	0.096	O	|	|	|	| 0.25
37.667	0.00	0.12	0.095	O	|	|	|	| 0.25
37.750	0.00	0.12	0.094	O	|	|	|	| 0.25
37.833	0.00	0.12	0.093	O	|	|	|	| 0.24
37.917	0.00	0.12	0.092	O	|	|	|	| 0.24
38.000	0.00	0.12	0.091	O	|	|	|	| 0.24
38.083	0.00	0.12	0.091	O	|	|	|	| 0.24
38.167	0.00	0.12	0.090	O	|	|	|	| 0.24
38.250	0.00	0.12	0.089	O	|	|	|	| 0.23
38.333	0.00	0.12	0.088	O	|	|	|	| 0.23
38.417	0.00	0.11	0.087	O	|	|	|	| 0.23
38.500	0.00	0.11	0.087	O	|	|	|	| 0.23
38.583	0.00	0.11	0.086	O	|	|	|	| 0.22
38.667	0.00	0.11	0.085	O	|	|	|	| 0.22
38.750	0.00	0.11	0.084	O	|	|	|	| 0.22
38.833	0.00	0.11	0.084	O	|	|	|	| 0.22
38.917	0.00	0.11	0.083	O	|	|	|	| 0.22
39.000	0.00	0.11	0.082	O	|	|	|	| 0.21
39.083	0.00	0.11	0.081	O	|	|	|	| 0.21
39.167	0.00	0.11	0.081	O	|	|	|	| 0.21
39.250	0.00	0.10	0.080	O	|	|	|	| 0.21
39.333	0.00	0.10	0.079	O	|	|	|	| 0.21
39.417	0.00	0.10	0.078	O	|	|	|	| 0.21
39.500	0.00	0.10	0.078	O	|	|	|	| 0.20
39.583	0.00	0.10	0.077	O	|	|	|	| 0.20
39.667	0.00	0.10	0.076	O	|	|	|	| 0.20
39.750	0.00	0.10	0.076	O	|	|	|	| 0.20
39.833	0.00	0.10	0.075	O	|	|	|	| 0.20
39.917	0.00	0.10	0.074	O	|	|	|	| 0.19
40.000	0.00	0.10	0.074	O	|	|	|	| 0.19
40.083	0.00	0.10	0.073	O	|	|	|	| 0.19
40.167	0.00	0.09	0.072	O	|	|	|	| 0.19
40.250	0.00	0.09	0.072	O	|	|	|	| 0.19
40.333	0.00	0.09	0.071	O	|	|	|	| 0.19
40.417	0.00	0.09	0.070	O	|	|	|	| 0.18
40.500	0.00	0.09	0.070	O	|	|	|	| 0.18
40.583	0.00	0.09	0.069	O	|	|	|	| 0.18
40.667	0.00	0.09	0.069	O	|	|	|	| 0.18
40.750	0.00	0.09	0.068	O	|	|	|	| 0.18
40.833	0.00	0.09	0.067	O	|	|	|	| 0.18
40.917	0.00	0.09	0.067	O	|	|	|	| 0.17
41.000	0.00	0.09	0.066	O	|	|	|	| 0.17
41.083	0.00	0.09	0.066	O	|	|	|	| 0.17
41.167	0.00	0.08	0.065	O	|	|	|	| 0.17
41.250	0.00	0.08	0.064	O	|	|	|	| 0.17
41.333	0.00	0.08	0.064	O	|	|	|	| 0.17

41.417	0.00	0.08	0.063	O	|	|	|	|	0.17
41.500	0.00	0.08	0.063	O	|	|	|	|	0.16
41.583	0.00	0.08	0.062	O	|	|	|	|	0.16
41.667	0.00	0.08	0.062	O	|	|	|	|	0.16
41.750	0.00	0.08	0.061	O	|	|	|	|	0.16
41.833	0.00	0.08	0.060	O	|	|	|	|	0.16
41.917	0.00	0.08	0.060	O	|	|	|	|	0.16
42.000	0.00	0.08	0.059	O	|	|	|	|	0.16
42.083	0.00	0.08	0.059	O	|	|	|	|	0.15
42.167	0.00	0.08	0.058	O	|	|	|	|	0.15
42.250	0.00	0.08	0.058	O	|	|	|	|	0.15
42.333	0.00	0.07	0.057	O	|	|	|	|	0.15
42.417	0.00	0.07	0.057	O	|	|	|	|	0.15
42.500	0.00	0.07	0.056	O	|	|	|	|	0.15
42.583	0.00	0.07	0.056	O	|	|	|	|	0.15
42.667	0.00	0.07	0.055	O	|	|	|	|	0.14
42.750	0.00	0.07	0.055	O	|	|	|	|	0.14
42.833	0.00	0.07	0.054	O	|	|	|	|	0.14
42.917	0.00	0.07	0.054	O	|	|	|	|	0.14
43.000	0.00	0.07	0.053	O	|	|	|	|	0.14
43.083	0.00	0.07	0.053	O	|	|	|	|	0.14
43.167	0.00	0.07	0.052	O	|	|	|	|	0.14
43.250	0.00	0.07	0.052	O	|	|	|	|	0.14
43.333	0.00	0.07	0.051	O	|	|	|	|	0.13
43.417	0.00	0.07	0.051	O	|	|	|	|	0.13
43.500	0.00	0.07	0.050	O	|	|	|	|	0.13
43.583	0.00	0.07	0.050	O	|	|	|	|	0.13
43.667	0.00	0.06	0.050	O	|	|	|	|	0.13
43.750	0.00	0.06	0.049	O	|	|	|	|	0.13
43.833	0.00	0.06	0.049	O	|	|	|	|	0.13
43.917	0.00	0.06	0.048	O	|	|	|	|	0.13
44.000	0.00	0.06	0.048	O	|	|	|	|	0.13
44.083	0.00	0.06	0.047	O	|	|	|	|	0.12
44.167	0.00	0.06	0.047	O	|	|	|	|	0.12
44.250	0.00	0.06	0.047	O	|	|	|	|	0.12
44.333	0.00	0.06	0.046	O	|	|	|	|	0.12
44.417	0.00	0.06	0.046	O	|	|	|	|	0.12
44.500	0.00	0.06	0.045	O	|	|	|	|	0.12
44.583	0.00	0.06	0.045	O	|	|	|	|	0.12
44.667	0.00	0.06	0.044	O	|	|	|	|	0.12
44.750	0.00	0.06	0.044	O	|	|	|	|	0.12
44.833	0.00	0.06	0.044	O	|	|	|	|	0.11
44.917	0.00	0.06	0.043	O	|	|	|	|	0.11
45.000	0.00	0.06	0.043	O	|	|	|	|	0.11
45.083	0.00	0.06	0.043	O	|	|	|	|	0.11
45.167	0.00	0.06	0.042	O	|	|	|	|	0.11
45.250	0.00	0.05	0.042	O	|	|	|	|	0.11
45.333	0.00	0.05	0.041	O	|	|	|	|	0.11
45.417	0.00	0.05	0.041	O	|	|	|	|	0.11
45.500	0.00	0.05	0.041	O	|	|	|	|	0.11
45.583	0.00	0.05	0.040	O	|	|	|	|	0.11
45.667	0.00	0.05	0.040	O	|	|	|	|	0.10
45.750	0.00	0.05	0.040	O	|	|	|	|	0.10
45.833	0.00	0.05	0.039	O	|	|	|	|	0.10
45.917	0.00	0.05	0.039	O	|	|	|	|	0.10
46.000	0.00	0.05	0.038	O	|	|	|	|	0.10
46.083	0.00	0.05	0.038	O	|	|	|	|	0.10
46.167	0.00	0.05	0.038	O	|	|	|	|	0.10
46.250	0.00	0.05	0.037	O	|	|	|	|	0.10
46.333	0.00	0.05	0.037	O	|	|	|	|	0.10
46.417	0.00	0.05	0.037	O	|	|	|	|	0.10
46.500	0.00	0.05	0.036	O	|	|	|	|	0.10
46.583	0.00	0.05	0.036	O	|	|	|	|	0.09
46.667	0.00	0.05	0.036	O	|	|	|	|	0.09
46.750	0.00	0.05	0.035	O	|	|	|	|	0.09
46.833	0.00	0.05	0.035	O	|	|	|	|	0.09
46.917	0.00	0.05	0.035	O	|	|	|	|	0.09
47.000	0.00	0.05	0.035	O	|	|	|	|	0.09
47.083	0.00	0.04	0.034	O	|	|	|	|	0.09
47.167	0.00	0.04	0.034	O	|	|	|	|	0.09
47.250	0.00	0.04	0.034	O	|	|	|	|	0.09

47.333	0.00	0.04	0.033	O	|	|	|	| 0.09
47.417	0.00	0.04	0.033	O	|	|	|	| 0.09
47.500	0.00	0.04	0.033	O	|	|	|	| 0.09
47.583	0.00	0.04	0.032	O	|	|	|	| 0.08
47.667	0.00	0.04	0.032	O	|	|	|	| 0.08
47.750	0.00	0.04	0.032	O	|	|	|	| 0.08
47.833	0.00	0.04	0.032	O	|	|	|	| 0.08
47.917	0.00	0.04	0.031	O	|	|	|	| 0.08
48.000	0.00	0.04	0.031	O	|	|	|	| 0.08
48.083	0.00	0.04	0.031	O	|	|	|	| 0.08
48.167	0.00	0.04	0.030	O	|	|	|	| 0.08
48.250	0.00	0.04	0.030	O	|	|	|	| 0.08
48.333	0.00	0.04	0.030	O	|	|	|	| 0.08
48.417	0.00	0.04	0.030	O	|	|	|	| 0.08
48.500	0.00	0.04	0.029	O	|	|	|	| 0.08
48.583	0.00	0.04	0.029	O	|	|	|	| 0.08
48.667	0.00	0.04	0.029	O	|	|	|	| 0.08
48.750	0.00	0.04	0.029	O	|	|	|	| 0.07
48.833	0.00	0.04	0.028	O	|	|	|	| 0.07
48.917	0.00	0.04	0.028	O	|	|	|	| 0.07
49.000	0.00	0.04	0.028	O	|	|	|	| 0.07
49.083	0.00	0.04	0.028	O	|	|	|	| 0.07
49.167	0.00	0.04	0.027	O	|	|	|	| 0.07
49.250	0.00	0.04	0.027	O	|	|	|	| 0.07
49.333	0.00	0.04	0.027	O	|	|	|	| 0.07
49.417	0.00	0.03	0.027	O	|	|	|	| 0.07
49.500	0.00	0.03	0.026	O	|	|	|	| 0.07
49.583	0.00	0.03	0.026	O	|	|	|	| 0.07
49.667	0.00	0.03	0.026	O	|	|	|	| 0.07
49.750	0.00	0.03	0.026	O	|	|	|	| 0.07
49.833	0.00	0.03	0.025	O	|	|	|	| 0.07
49.917	0.00	0.03	0.025	O	|	|	|	| 0.07
50.000	0.00	0.03	0.025	O	|	|	|	| 0.07
50.083	0.00	0.03	0.025	O	|	|	|	| 0.06
50.167	0.00	0.03	0.025	O	|	|	|	| 0.06
50.250	0.00	0.03	0.024	O	|	|	|	| 0.06
50.333	0.00	0.03	0.024	O	|	|	|	| 0.06
50.417	0.00	0.03	0.024	O	|	|	|	| 0.06
50.500	0.00	0.03	0.024	O	|	|	|	| 0.06
50.583	0.00	0.03	0.023	O	|	|	|	| 0.06
50.667	0.00	0.03	0.023	O	|	|	|	| 0.06
50.750	0.00	0.03	0.023	O	|	|	|	| 0.06
50.833	0.00	0.03	0.023	O	|	|	|	| 0.06
50.917	0.00	0.03	0.023	O	|	|	|	| 0.06
51.000	0.00	0.03	0.022	O	|	|	|	| 0.06
51.083	0.00	0.03	0.022	O	|	|	|	| 0.06
51.167	0.00	0.03	0.022	O	|	|	|	| 0.06
51.250	0.00	0.03	0.022	O	|	|	|	| 0.06
51.333	0.00	0.03	0.022	O	|	|	|	| 0.06
51.417	0.00	0.03	0.021	O	|	|	|	| 0.06
51.500	0.00	0.03	0.021	O	|	|	|	| 0.06
51.583	0.00	0.03	0.021	O	|	|	|	| 0.06
51.667	0.00	0.03	0.021	O	|	|	|	| 0.05
51.750	0.00	0.03	0.021	O	|	|	|	| 0.05
51.833	0.00	0.03	0.020	O	|	|	|	| 0.05
51.917	0.00	0.03	0.020	O	|	|	|	| 0.05
52.000	0.00	0.03	0.020	O	|	|	|	| 0.05
52.083	0.00	0.03	0.020	O	|	|	|	| 0.05
52.167	0.00	0.03	0.020	O	|	|	|	| 0.05
52.250	0.00	0.03	0.020	O	|	|	|	| 0.05
52.333	0.00	0.03	0.019	O	|	|	|	| 0.05
52.417	0.00	0.03	0.019	O	|	|	|	| 0.05
52.500	0.00	0.02	0.019	O	|	|	|	| 0.05
52.583	0.00	0.02	0.019	O	|	|	|	| 0.05
52.667	0.00	0.02	0.019	O	|	|	|	| 0.05
52.750	0.00	0.02	0.019	O	|	|	|	| 0.05
52.833	0.00	0.02	0.018	O	|	|	|	| 0.05
52.917	0.00	0.02	0.018	O	|	|	|	| 0.05
53.000	0.00	0.02	0.018	O	|	|	|	| 0.05
53.083	0.00	0.02	0.018	O	|	|	|	| 0.05
53.167	0.00	0.02	0.018	O	|	|	|	| 0.05

53.250	0.00	0.02	0.018	O	|	|	|	0.05
53.333	0.00	0.02	0.017	O	|	|	|	0.05
53.417	0.00	0.02	0.017	O	|	|	|	0.05
53.500	0.00	0.02	0.017	O	|	|	|	0.04
53.583	0.00	0.02	0.017	O	|	|	|	0.04
53.667	0.00	0.02	0.017	O	|	|	|	0.04
53.750	0.00	0.02	0.017	O	|	|	|	0.04
53.833	0.00	0.02	0.016	O	|	|	|	0.04
53.917	0.00	0.02	0.016	O	|	|	|	0.04
54.000	0.00	0.02	0.016	O	|	|	|	0.04
54.083	0.00	0.02	0.016	O	|	|	|	0.04
54.167	0.00	0.02	0.016	O	|	|	|	0.04
54.250	0.00	0.02	0.016	O	|	|	|	0.04
54.333	0.00	0.02	0.016	O	|	|	|	0.04
54.417	0.00	0.02	0.015	O	|	|	|	0.04
54.500	0.00	0.02	0.015	O	|	|	|	0.04
54.583	0.00	0.02	0.015	O	|	|	|	0.04
54.667	0.00	0.02	0.015	O	|	|	|	0.04
54.750	0.00	0.02	0.015	O	|	|	|	0.04
54.833	0.00	0.02	0.015	O	|	|	|	0.04
54.917	0.00	0.02	0.015	O	|	|	|	0.04
55.000	0.00	0.02	0.015	O	|	|	|	0.04
55.083	0.00	0.02	0.014	O	|	|	|	0.04
55.167	0.00	0.02	0.014	O	|	|	|	0.04
55.250	0.00	0.02	0.014	O	|	|	|	0.04
55.333	0.00	0.02	0.014	O	|	|	|	0.04
55.417	0.00	0.02	0.014	O	|	|	|	0.04
55.500	0.00	0.02	0.014	O	|	|	|	0.04
55.583	0.00	0.02	0.014	O	|	|	|	0.04
55.667	0.00	0.02	0.014	O	|	|	|	0.04
55.750	0.00	0.02	0.013	O	|	|	|	0.04
55.833	0.00	0.02	0.013	O	|	|	|	0.03
55.917	0.00	0.02	0.013	O	|	|	|	0.03
56.000	0.00	0.02	0.013	O	|	|	|	0.03
56.083	0.00	0.02	0.013	O	|	|	|	0.03
56.167	0.00	0.02	0.013	O	|	|	|	0.03
56.250	0.00	0.02	0.013	O	|	|	|	0.03
56.333	0.00	0.02	0.013	O	|	|	|	0.03
56.417	0.00	0.02	0.012	O	|	|	|	0.03
56.500	0.00	0.02	0.012	O	|	|	|	0.03
56.583	0.00	0.02	0.012	O	|	|	|	0.03
56.667	0.00	0.02	0.012	O	|	|	|	0.03
56.750	0.00	0.02	0.012	O	|	|	|	0.03
56.833	0.00	0.02	0.012	O	|	|	|	0.03
56.917	0.00	0.02	0.012	O	|	|	|	0.03
57.000	0.00	0.02	0.012	O	|	|	|	0.03
57.083	0.00	0.02	0.012	O	|	|	|	0.03
57.167	0.00	0.02	0.012	O	|	|	|	0.03
57.250	0.00	0.01	0.011	O	|	|	|	0.03
57.333	0.00	0.01	0.011	O	|	|	|	0.03
57.417	0.00	0.01	0.011	O	|	|	|	0.03
57.500	0.00	0.01	0.011	O	|	|	|	0.03
57.583	0.00	0.01	0.011	O	|	|	|	0.03
57.667	0.00	0.01	0.011	O	|	|	|	0.03
57.750	0.00	0.01	0.011	O	|	|	|	0.03
57.833	0.00	0.01	0.011	O	|	|	|	0.03
57.917	0.00	0.01	0.011	O	|	|	|	0.03
58.000	0.00	0.01	0.011	O	|	|	|	0.03
58.083	0.00	0.01	0.010	O	|	|	|	0.03
58.167	0.00	0.01	0.010	O	|	|	|	0.03
58.250	0.00	0.01	0.010	O	|	|	|	0.03
58.333	0.00	0.01	0.010	O	|	|	|	0.03
58.417	0.00	0.01	0.010	O	|	|	|	0.03
58.500	0.00	0.01	0.010	O	|	|	|	0.03
58.583	0.00	0.01	0.010	O	|	|	|	0.03
58.667	0.00	0.01	0.010	O	|	|	|	0.03
58.750	0.00	0.01	0.010	O	|	|	|	0.03
58.833	0.00	0.01	0.010	O	|	|	|	0.03
58.917	0.00	0.01	0.010	O	|	|	|	0.02
59.000	0.00	0.01	0.009	O	|	|	|	0.02
59.083	0.00	0.01	0.009	O	|	|	|	0.02

59.167	0.00	0.01	0.009	O	|	|	|	0.02
59.250	0.00	0.01	0.009	O	|	|	|	0.02
59.333	0.00	0.01	0.009	O	|	|	|	0.02
59.417	0.00	0.01	0.009	O	|	|	|	0.02
59.500	0.00	0.01	0.009	O	|	|	|	0.02
59.583	0.00	0.01	0.009	O	|	|	|	0.02
59.667	0.00	0.01	0.009	O	|	|	|	0.02
59.750	0.00	0.01	0.009	O	|	|	|	0.02
59.833	0.00	0.01	0.009	O	|	|	|	0.02
59.917	0.00	0.01	0.009	O	|	|	|	0.02
60.000	0.00	0.01	0.008	O	|	|	|	0.02
60.083	0.00	0.01	0.008	O	|	|	|	0.02
60.167	0.00	0.01	0.008	O	|	|	|	0.02
60.250	0.00	0.01	0.008	O	|	|	|	0.02
60.333	0.00	0.01	0.008	O	|	|	|	0.02
60.417	0.00	0.01	0.008	O	|	|	|	0.02
60.500	0.00	0.01	0.008	O	|	|	|	0.02
60.583	0.00	0.01	0.008	O	|	|	|	0.02
60.667	0.00	0.01	0.008	O	|	|	|	0.02
60.750	0.00	0.01	0.008	O	|	|	|	0.02
60.833	0.00	0.01	0.008	O	|	|	|	0.02
60.917	0.00	0.01	0.008	O	|	|	|	0.02
61.000	0.00	0.01	0.008	O	|	|	|	0.02
61.083	0.00	0.01	0.008	O	|	|	|	0.02
61.167	0.00	0.01	0.007	O	|	|	|	0.02
61.250	0.00	0.01	0.007	O	|	|	|	0.02
61.333	0.00	0.01	0.007	O	|	|	|	0.02
61.417	0.00	0.01	0.007	O	|	|	|	0.02
61.500	0.00	0.01	0.007	O	|	|	|	0.02
61.583	0.00	0.01	0.007	O	|	|	|	0.02
61.667	0.00	0.01	0.007	O	|	|	|	0.02
61.750	0.00	0.01	0.007	O	|	|	|	0.02
61.833	0.00	0.01	0.007	O	|	|	|	0.02
61.917	0.00	0.01	0.007	O	|	|	|	0.02
62.000	0.00	0.01	0.007	O	|	|	|	0.02
62.083	0.00	0.01	0.007	O	|	|	|	0.02
62.167	0.00	0.01	0.007	O	|	|	|	0.02
62.250	0.00	0.01	0.007	O	|	|	|	0.02
62.333	0.00	0.01	0.007	O	|	|	|	0.02
62.417	0.00	0.01	0.007	O	|	|	|	0.02
62.500	0.00	0.01	0.006	O	|	|	|	0.02
62.583	0.00	0.01	0.006	O	|	|	|	0.02
62.667	0.00	0.01	0.006	O	|	|	|	0.02
62.750	0.00	0.01	0.006	O	|	|	|	0.02
62.833	0.00	0.01	0.006	O	|	|	|	0.02
62.917	0.00	0.01	0.006	O	|	|	|	0.02
63.000	0.00	0.01	0.006	O	|	|	|	0.02
63.083	0.00	0.01	0.006	O	|	|	|	0.02
63.167	0.00	0.01	0.006	O	|	|	|	0.02
63.250	0.00	0.01	0.006	O	|	|	|	0.02
63.333	0.00	0.01	0.006	O	|	|	|	0.02
63.417	0.00	0.01	0.006	O	|	|	|	0.02
63.500	0.00	0.01	0.006	O	|	|	|	0.02
63.583	0.00	0.01	0.006	O	|	|	|	0.02
63.667	0.00	0.01	0.006	O	|	|	|	0.01
63.750	0.00	0.01	0.006	O	|	|	|	0.01
63.833	0.00	0.01	0.006	O	|	|	|	0.01
63.917	0.00	0.01	0.006	O	|	|	|	0.01
64.000	0.00	0.01	0.005	O	|	|	|	0.01
64.083	0.00	0.01	0.005	O	|	|	|	0.01
64.167	0.00	0.01	0.005	O	|	|	|	0.01
64.250	0.00	0.01	0.005	O	|	|	|	0.01
64.333	0.00	0.01	0.005	O	|	|	|	0.01
64.417	0.00	0.01	0.005	O	|	|	|	0.01
64.500	0.00	0.01	0.005	O	|	|	|	0.01
64.583	0.00	0.01	0.005	O	|	|	|	0.01
64.667	0.00	0.01	0.005	O	|	|	|	0.01
64.750	0.00	0.01	0.005	O	|	|	|	0.01
64.833	0.00	0.01	0.005	O	|	|	|	0.01
64.917	0.00	0.01	0.005	O	|	|	|	0.01
65.000	0.00	0.01	0.005	O	|	|	|	0.01

65.083	0.00	0.01	0.005	O	|	|	|	|	0.01
65.167	0.00	0.01	0.005	O	|	|	|	|	0.01
65.250	0.00	0.01	0.005	O	|	|	|	|	0.01
65.333	0.00	0.01	0.005	O	|	|	|	|	0.01
65.417	0.00	0.01	0.005	O	|	|	|	|	0.01
65.500	0.00	0.01	0.005	O	|	|	|	|	0.01
65.583	0.00	0.01	0.005	O	|	|	|	|	0.01
65.667	0.00	0.01	0.005	O	|	|	|	|	0.01
65.750	0.00	0.01	0.005	O	|	|	|	|	0.01
65.833	0.00	0.01	0.005	O	|	|	|	|	0.01
65.917	0.00	0.01	0.004	O	|	|	|	|	0.01
66.000	0.00	0.01	0.004	O	|	|	|	|	0.01
66.083	0.00	0.01	0.004	O	|	|	|	|	0.01
66.167	0.00	0.01	0.004	O	|	|	|	|	0.01
66.250	0.00	0.01	0.004	O	|	|	|	|	0.01
66.333	0.00	0.01	0.004	O	|	|	|	|	0.01
66.417	0.00	0.01	0.004	O	|	|	|	|	0.01
66.500	0.00	0.01	0.004	O	|	|	|	|	0.01
66.583	0.00	0.01	0.004	O	|	|	|	|	0.01
66.667	0.00	0.01	0.004	O	|	|	|	|	0.01
66.750	0.00	0.01	0.004	O	|	|	|	|	0.01
66.833	0.00	0.01	0.004	O	|	|	|	|	0.01
66.917	0.00	0.01	0.004	O	|	|	|	|	0.01
67.000	0.00	0.01	0.004	O	|	|	|	|	0.01
67.083	0.00	0.01	0.004	O	|	|	|	|	0.01
67.167	0.00	0.01	0.004	O	|	|	|	|	0.01
67.250	0.00	0.01	0.004	O	|	|	|	|	0.01
67.333	0.00	0.01	0.004	O	|	|	|	|	0.01
67.417	0.00	0.00	0.004	O	|	|	|	|	0.01
67.500	0.00	0.00	0.004	O	|	|	|	|	0.01
67.583	0.00	0.00	0.004	O	|	|	|	|	0.01
67.667	0.00	0.00	0.004	O	|	|	|	|	0.01
67.750	0.00	0.00	0.004	O	|	|	|	|	0.01
67.833	0.00	0.00	0.004	O	|	|	|	|	0.01
67.917	0.00	0.00	0.004	O	|	|	|	|	0.01
68.000	0.00	0.00	0.004	O	|	|	|	|	0.01
68.083	0.00	0.00	0.004	O	|	|	|	|	0.01
68.167	0.00	0.00	0.003	O	|	|	|	|	0.01
68.250	0.00	0.00	0.003	O	|	|	|	|	0.01
68.333	0.00	0.00	0.003	O	|	|	|	|	0.01
68.417	0.00	0.00	0.003	O	|	|	|	|	0.01
68.500	0.00	0.00	0.003	O	|	|	|	|	0.01
68.583	0.00	0.00	0.003	O	|	|	|	|	0.01
68.667	0.00	0.00	0.003	O	|	|	|	|	0.01
68.750	0.00	0.00	0.003	O	|	|	|	|	0.01
68.833	0.00	0.00	0.003	O	|	|	|	|	0.01
68.917	0.00	0.00	0.003	O	|	|	|	|	0.01
69.000	0.00	0.00	0.003	O	|	|	|	|	0.01
69.083	0.00	0.00	0.003	O	|	|	|	|	0.01
69.167	0.00	0.00	0.003	O	|	|	|	|	0.01
69.250	0.00	0.00	0.003	O	|	|	|	|	0.01
69.333	0.00	0.00	0.003	O	|	|	|	|	0.01
69.417	0.00	0.00	0.003	O	|	|	|	|	0.01
69.500	0.00	0.00	0.003	O	|	|	|	|	0.01
69.583	0.00	0.00	0.003	O	|	|	|	|	0.01
69.667	0.00	0.00	0.003	O	|	|	|	|	0.01
69.750	0.00	0.00	0.003	O	|	|	|	|	0.01
69.833	0.00	0.00	0.003	O	|	|	|	|	0.01
69.917	0.00	0.00	0.003	O	|	|	|	|	0.01
70.000	0.00	0.00	0.003	O	|	|	|	|	0.01
70.083	0.00	0.00	0.003	O	|	|	|	|	0.01
70.167	0.00	0.00	0.003	O	|	|	|	|	0.01
70.250	0.00	0.00	0.003	O	|	|	|	|	0.01
70.333	0.00	0.00	0.003	O	|	|	|	|	0.01
70.417	0.00	0.00	0.003	O	|	|	|	|	0.01
70.500	0.00	0.00	0.003	O	|	|	|	|	0.01
70.583	0.00	0.00	0.003	O	|	|	|	|	0.01
70.667	0.00	0.00	0.003	O	|	|	|	|	0.01
70.750	0.00	0.00	0.003	O	|	|	|	|	0.01
70.833	0.00	0.00	0.003	O	|	|	|	|	0.01
70.917	0.00	0.00	0.003	O	|	|	|	|	0.01

71.000	0.00	0.00	0.003	O	|	|	|	|	0.01
71.083	0.00	0.00	0.003	O	|	|	|	|	0.01
71.167	0.00	0.00	0.003	O	|	|	|	|	0.01
71.250	0.00	0.00	0.003	O	|	|	|	|	0.01
71.333	0.00	0.00	0.002	O	|	|	|	|	0.01
71.417	0.00	0.00	0.002	O	|	|	|	|	0.01
71.500	0.00	0.00	0.002	O	|	|	|	|	0.01
71.583	0.00	0.00	0.002	O	|	|	|	|	0.01
71.667	0.00	0.00	0.002	O	|	|	|	|	0.01
71.750	0.00	0.00	0.002	O	|	|	|	|	0.01
71.833	0.00	0.00	0.002	O	|	|	|	|	0.01
71.917	0.00	0.00	0.002	O	|	|	|	|	0.01
72.000	0.00	0.00	0.002	O	|	|	|	|	0.01
72.083	0.00	0.00	0.002	O	|	|	|	|	0.01
72.167	0.00	0.00	0.002	O	|	|	|	|	0.01
72.250	0.00	0.00	0.002	O	|	|	|	|	0.01
72.333	0.00	0.00	0.002	O	|	|	|	|	0.01
72.417	0.00	0.00	0.002	O	|	|	|	|	0.01
72.500	0.00	0.00	0.002	O	|	|	|	|	0.01
72.583	0.00	0.00	0.002	O	|	|	|	|	0.01
72.667	0.00	0.00	0.002	O	|	|	|	|	0.01
72.750	0.00	0.00	0.002	O	|	|	|	|	0.01
72.833	0.00	0.00	0.002	O	|	|	|	|	0.01
72.917	0.00	0.00	0.002	O	|	|	|	|	0.01
73.000	0.00	0.00	0.002	O	|	|	|	|	0.01
73.083	0.00	0.00	0.002	O	|	|	|	|	0.01
73.167	0.00	0.00	0.002	O	|	|	|	|	0.01
73.250	0.00	0.00	0.002	O	|	|	|	|	0.01
73.333	0.00	0.00	0.002	O	|	|	|	|	0.01
73.417	0.00	0.00	0.002	O	|	|	|	|	0.01
73.500	0.00	0.00	0.002	O	|	|	|	|	0.01
73.583	0.00	0.00	0.002	O	|	|	|	|	0.01
73.667	0.00	0.00	0.002	O	|	|	|	|	0.01
73.750	0.00	0.00	0.002	O	|	|	|	|	0.01
73.833	0.00	0.00	0.002	O	|	|	|	|	0.00
73.917	0.00	0.00	0.002	O	|	|	|	|	0.00
74.000	0.00	0.00	0.002	O	|	|	|	|	0.00
74.083	0.00	0.00	0.002	O	|	|	|	|	0.00
74.167	0.00	0.00	0.002	O	|	|	|	|	0.00
74.250	0.00	0.00	0.002	O	|	|	|	|	0.00
74.333	0.00	0.00	0.002	O	|	|	|	|	0.00
74.417	0.00	0.00	0.002	O	|	|	|	|	0.00
74.500	0.00	0.00	0.002	O	|	|	|	|	0.00
74.583	0.00	0.00	0.002	O	|	|	|	|	0.00
74.667	0.00	0.00	0.002	O	|	|	|	|	0.00
74.750	0.00	0.00	0.002	O	|	|	|	|	0.00
74.833	0.00	0.00	0.002	O	|	|	|	|	0.00
74.917	0.00	0.00	0.002	O	|	|	|	|	0.00
75.000	0.00	0.00	0.002	O	|	|	|	|	0.00
75.083	0.00	0.00	0.002	O	|	|	|	|	0.00
75.167	0.00	0.00	0.002	O	|	|	|	|	0.00
75.250	0.00	0.00	0.002	O	|	|	|	|	0.00
75.333	0.00	0.00	0.002	O	|	|	|	|	0.00
75.417	0.00	0.00	0.002	O	|	|	|	|	0.00
75.500	0.00	0.00	0.002	O	|	|	|	|	0.00
75.583	0.00	0.00	0.002	O	|	|	|	|	0.00
75.667	0.00	0.00	0.002	O	|	|	|	|	0.00
75.750	0.00	0.00	0.002	O	|	|	|	|	0.00
75.833	0.00	0.00	0.002	O	|	|	|	|	0.00
75.917	0.00	0.00	0.002	O	|	|	|	|	0.00
76.000	0.00	0.00	0.001	O	|	|	|	|	0.00
76.083	0.00	0.00	0.001	O	|	|	|	|	0.00
76.167	0.00	0.00	0.001	O	|	|	|	|	0.00
76.250	0.00	0.00	0.001	O	|	|	|	|	0.00
76.333	0.00	0.00	0.001	O	|	|	|	|	0.00
76.417	0.00	0.00	0.001	O	|	|	|	|	0.00
76.500	0.00	0.00	0.001	O	|	|	|	|	0.00
76.583	0.00	0.00	0.001	O	|	|	|	|	0.00
76.667	0.00	0.00	0.001	O	|	|	|	|	0.00
76.750	0.00	0.00	0.001	O	|	|	|	|	0.00
76.833	0.00	0.00	0.001	O	|	|	|	|	0.00

76.917	0.00	0.00	0.001	O	|	|	|	|	0.00
77.000	0.00	0.00	0.001	O	|	|	|	|	0.00
77.083	0.00	0.00	0.001	O	|	|	|	|	0.00
77.167	0.00	0.00	0.001	O	|	|	|	|	0.00
77.250	0.00	0.00	0.001	O	|	|	|	|	0.00
77.333	0.00	0.00	0.001	O	|	|	|	|	0.00
77.417	0.00	0.00	0.001	O	|	|	|	|	0.00
77.500	0.00	0.00	0.001	O	|	|	|	|	0.00
77.583	0.00	0.00	0.001	O	|	|	|	|	0.00
77.667	0.00	0.00	0.001	O	|	|	|	|	0.00
77.750	0.00	0.00	0.001	O	|	|	|	|	0.00
77.833	0.00	0.00	0.001	O	|	|	|	|	0.00
77.917	0.00	0.00	0.001	O	|	|	|	|	0.00
78.000	0.00	0.00	0.001	O	|	|	|	|	0.00
78.083	0.00	0.00	0.001	O	|	|	|	|	0.00
78.167	0.00	0.00	0.001	O	|	|	|	|	0.00
78.250	0.00	0.00	0.001	O	|	|	|	|	0.00
78.333	0.00	0.00	0.001	O	|	|	|	|	0.00
78.417	0.00	0.00	0.001	O	|	|	|	|	0.00
78.500	0.00	0.00	0.001	O	|	|	|	|	0.00
78.583	0.00	0.00	0.001	O	|	|	|	|	0.00
78.667	0.00	0.00	0.001	O	|	|	|	|	0.00
78.750	0.00	0.00	0.001	O	|	|	|	|	0.00
78.833	0.00	0.00	0.001	O	|	|	|	|	0.00
78.917	0.00	0.00	0.001	O	|	|	|	|	0.00
79.000	0.00	0.00	0.001	O	|	|	|	|	0.00
79.083	0.00	0.00	0.001	O	|	|	|	|	0.00
79.167	0.00	0.00	0.001	O	|	|	|	|	0.00
79.250	0.00	0.00	0.001	O	|	|	|	|	0.00
79.333	0.00	0.00	0.001	O	|	|	|	|	0.00
79.417	0.00	0.00	0.001	O	|	|	|	|	0.00
79.500	0.00	0.00	0.001	O	|	|	|	|	0.00
79.583	0.00	0.00	0.001	O	|	|	|	|	0.00
79.667	0.00	0.00	0.001	O	|	|	|	|	0.00
79.750	0.00	0.00	0.001	O	|	|	|	|	0.00
79.833	0.00	0.00	0.001	O	|	|	|	|	0.00
79.917	0.00	0.00	0.001	O	|	|	|	|	0.00
80.000	0.00	0.00	0.001	O	|	|	|	|	0.00
80.083	0.00	0.00	0.001	O	|	|	|	|	0.00
80.167	0.00	0.00	0.001	O	|	|	|	|	0.00
80.250	0.00	0.00	0.001	O	|	|	|	|	0.00
80.333	0.00	0.00	0.001	O	|	|	|	|	0.00
80.417	0.00	0.00	0.001	O	|	|	|	|	0.00
80.500	0.00	0.00	0.001	O	|	|	|	|	0.00
80.583	0.00	0.00	0.001	O	|	|	|	|	0.00
80.667	0.00	0.00	0.001	O	|	|	|	|	0.00
80.750	0.00	0.00	0.001	O	|	|	|	|	0.00
80.833	0.00	0.00	0.001	O	|	|	|	|	0.00
80.917	0.00	0.00	0.001	O	|	|	|	|	0.00
81.000	0.00	0.00	0.001	O	|	|	|	|	0.00
81.083	0.00	0.00	0.001	O	|	|	|	|	0.00
81.167	0.00	0.00	0.001	O	|	|	|	|	0.00
81.250	0.00	0.00	0.001	O	|	|	|	|	0.00
81.333	0.00	0.00	0.001	O	|	|	|	|	0.00
81.417	0.00	0.00	0.001	O	|	|	|	|	0.00
81.500	0.00	0.00	0.001	O	|	|	|	|	0.00
81.583	0.00	0.00	0.001	O	|	|	|	|	0.00
81.667	0.00	0.00	0.001	O	|	|	|	|	0.00
81.750	0.00	0.00	0.001	O	|	|	|	|	0.00
81.833	0.00	0.00	0.001	O	|	|	|	|	0.00
81.917	0.00	0.00	0.001	O	|	|	|	|	0.00
82.000	0.00	0.00	0.001	O	|	|	|	|	0.00
82.083	0.00	0.00	0.001	O	|	|	|	|	0.00
82.167	0.00	0.00	0.001	O	|	|	|	|	0.00
82.250	0.00	0.00	0.001	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 987
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 7.244 (CFS)
Total volume = 5.090 (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
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SECTION 4 – HYDRAULICS

Hydraulics (Offsite Channel)

Hydraulic Calculations (Offsite Channel)

Channel will convey the following CFS via normal depth calculations:

Channel: 10’ wide x 1’ deep (1.5:1 side slope)

$Q_{max} = 1.486AR^{2/3}S_f^{1/2}/n$

A = 11.5 SF
R = 0.90
S_f = 0.5%
N = 0.015

$Q_{max} = (1.486 \times 11.5 \times 0.90^{2/3} \times .005^{1/2})/.015$
Q_{max} = 72.2 CFS

Q_{max} = 72.2 CFS > Q_{actual} = 31.2 CFS

SECTION 5 – MAPS

Hydrology Map – Existing Condition Tributary Area

Proposed Detention Basin


TR 34271 OFFSITE HYDROLOGY
EL=1552
W Ramona Expy
W Ramona Expy
VERNON AVE
A=175 ACRES
L=7,157'
Elev Diff=45'
EL=1597
SOBOBA HOT SPRINGS
Soboba Springs Golf Course
Soboba Casino
Google Earth
2000 ft
N

TR 34271 OFFSITE PROPOSED BASIN

