

Hydrologic Report

For

**Northeast Corner of Harvill Avenue and Cajalco Road
Perris, California, 92570**

September 20, 2022

Prepared For:



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Prepared By:



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Hydrologic Report
for
Northeast Corner of Harvill Avenue and Cajalco Road
Perris, California

Date: September 20, 2022

Project Manager: D. Garrett Readler, P.E.
RCE No. 76867

Job Number: A21626

Prepared By:



D. Garrett Readler, P.E.
Kier & Wright

09/20/22

Date



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1. Introduction

1.1 PROJECT DESCRIPTION

This report has been prepared to provide an analysis of drainage patterns and improvements related to the development on the Northeast corner of Harvill Avenue and Cajalco Road, which is located within the City of Perris, CA. The proposed project is a new development of an empty lot. Once completed, this site will contain one new warehouse with truck docks, surrounded by site parking, landscape, and hardscape, with bioretention basins for detention and treatment.

The site consists of an empty dirt lot on the corner of Harvill Avenue and Cajalco Road. The property is bounded by an industrial building on the west and an apartment to the north. All existing onsite drainage facilities drain to the storm drain in the public right of way, which drains to the Santa Ana River and into the Pacific Ocean. The project proposes to surface drain all runoff to curb inlets where it will be treated prior to discharging into the public system.

1.2 REPORT OBJECTIVES

The objective of this report is to outline an orderly drainage system for the site in accordance with the Riverside County Flood Control and Water Conservation District Hydrology Manual. Objectives of this report are as follows:

- Determine the developed, or proposed, site hydrologic conditions, including overland runoff rates expected from the 2-year, 5-year, 10-year, and 100-year storm event.
- Validate the design of the proposed underground storm drain conveyance systems and provide hydraulic calculations.
- Provide storm water quality treatment in accordance with MRP NPDES Permit dated November 19, 2015.

1.3 CRITERIA, PROCEDURE, AND METHODOLOGY

Calculations and design criteria contained within this report are consistent with the Riverside County Flood Control District Hydrology requirements. The hydrology and storage calculations are per rational method runoff equations and are in accordance with County design criteria as performed in the CivilDesign software. Based on our preliminary Water Quality Management Plan, the design capture volume is 15,128 cubic feet of stormwater. However, the basins are designed to hold 83,701 cubic feet, or 1.92 ac-ft, with one foot of freeboard due to the difference in the pre and post development 10-year 24-hour storm.

Basin Sizing Chart [cu-ft]				
Area	Existing 10-year, 24-hour volume	Proposed 10-year, 24-hour volume	Difference in Volume	Volume in Basin with 1' of Freeboard
DMA 1	22,503 cu-ft	59,619 cu-ft	37,116 cu-ft	38,866 cu-ft
DMA 2	5,315 cu-ft	12,698 cu-ft	7,383 cu-ft	7,698 cu-ft
DMA 3	5,212 cu-t	13,951 cu-ft	8,739 cu-ft	9,091 cu-ft

2. Discussion/Calculations

2.1 HYDROLOGY

In order to determine expected peak runoff rates from the site, the overall project watershed was divided into three tributary areas, or Drainage Management Areas (DMA's), based on area draining to proposed treatment devices; DMA 1, DMA 2, and DMA 3. DMA 1 is comprised of 6.52 acres. DMA 2 is comprised of 1.54 acres. DMA 3 is comprised of 1.51 acres.

The hydrologic analysis has been prepared in accordance with the Riverside County Flood Control and Water Conservation district (RCFC&WCD). Unit hydrograph and detention routing calculations are included in Appendices B and C.

The 2-year and 100-year, 24-hour rainfall rate was taken from the isohyetal map in the Hydrology Manual. The hydrologic soil type for the site is "C". A "commercial" land use was used for the project site with AMC III for the proposed conditions.

Since the runoff of the proposed development is greater than the existing land use runoff, detention of the additional runoff is required. Unit hydrograph calculations were prepared to establish the baseline Q's for the 2, 5, 10, and 100 year storms at 1, 3, 6, and 24 hour returns for the 9.5 acre site. See attachment 3 for the unit hydrograph calculations.

Mitigation of the increased runoff post-development is being handled by a set of outlet structures in each basin. An outlet structure placed six inches above the bottom of the basin will outflow most storm events with a flow that is equal to or less than the existing flow, and an outlet structure that is six inches from the top of the basin will outflow the 100-year and large rain events without having the stormwater rise over the top of the basin. See attachment 4 for the basin routing calculations.

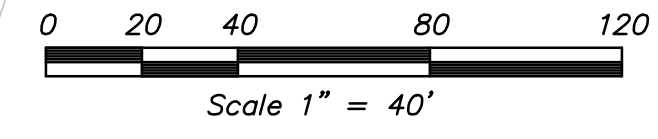
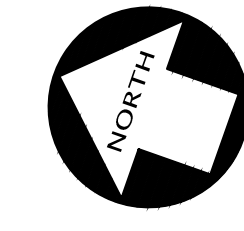
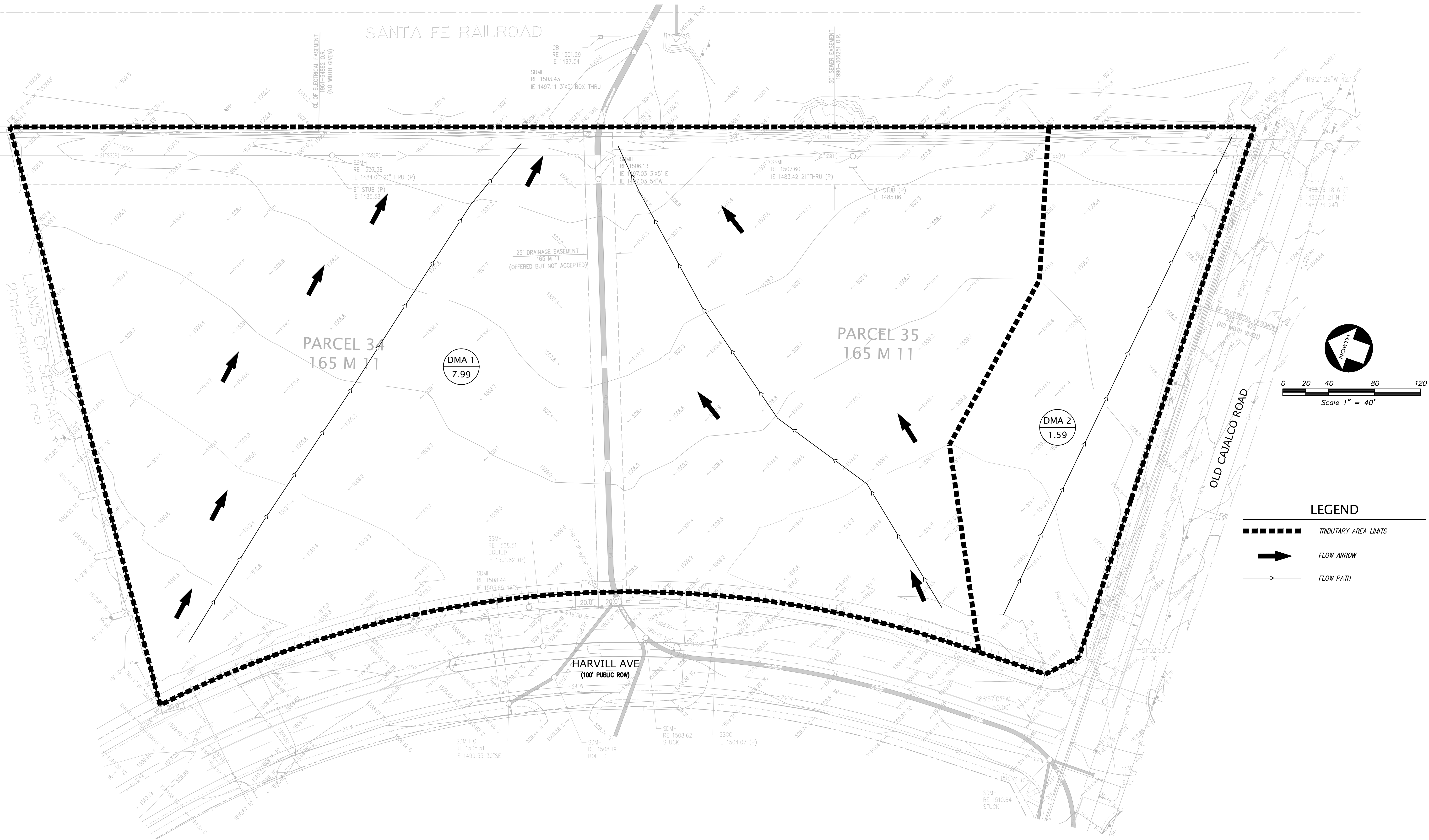
A summary of the hydrology calculations can be found in attachment 2, the hydrology summary.

3. Attachments

Attachment 1	Hydrology Map
Attachment 2	Hydrology Summary
Attachment 3	Unit Hydrograph Calculations
Attachment 4	Basin Routing Calculations



Attachment 1
Hydrology Map

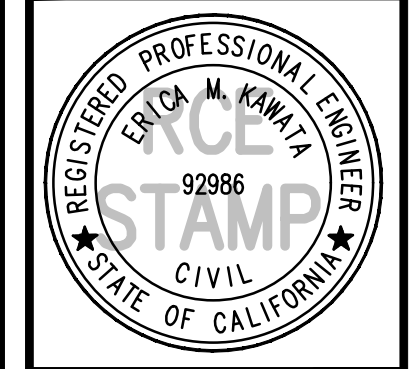


LEGEND

- TRIBUTARY AREA LIMITS
- FLOW ARROW
- FLOW PATH

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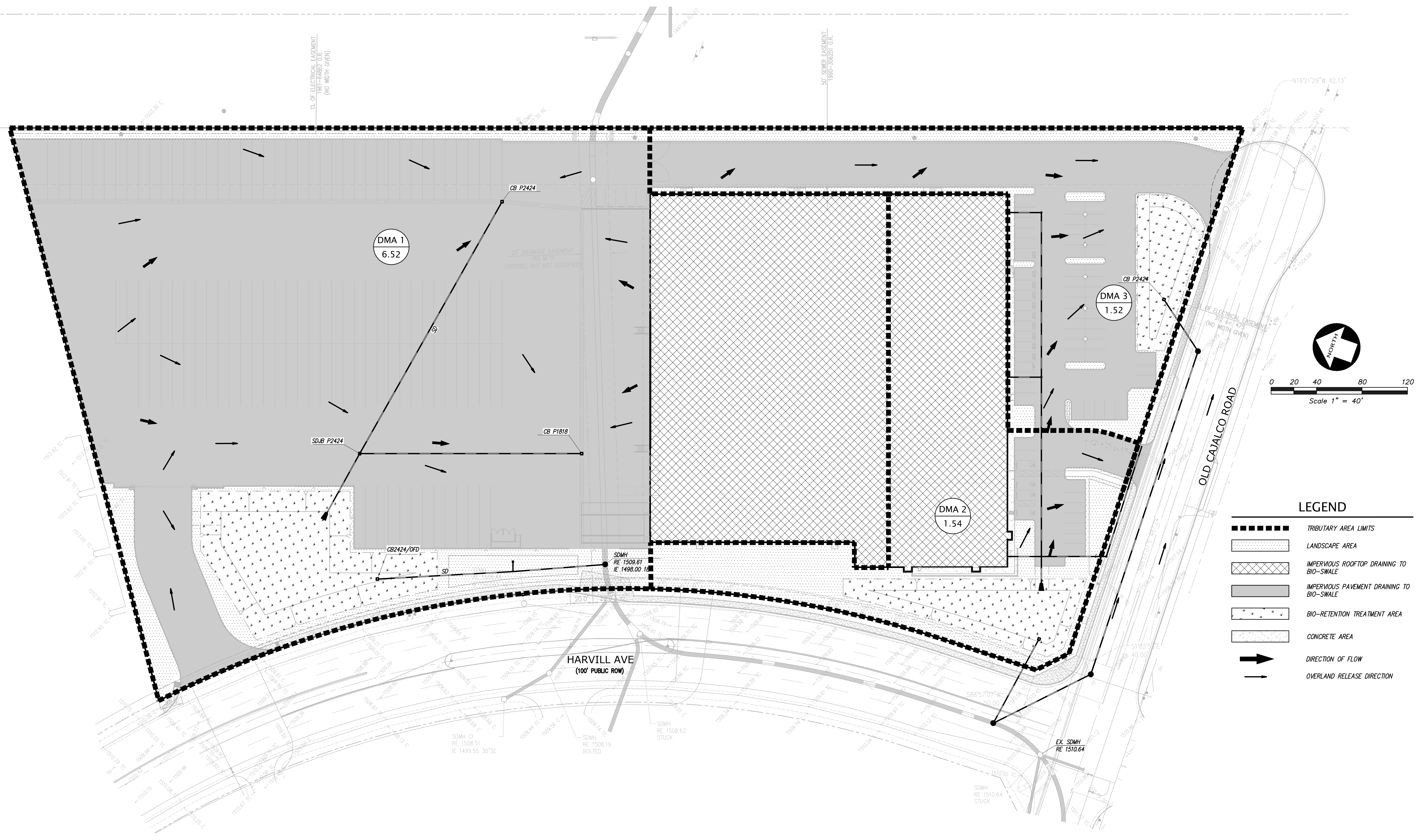
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PRELIMINARY SWQCP
 OF
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 FOR
ARES MANAGEMENT
 PERRIS, CALIFORNIA
 #PPT20001

DATE	JULY 2022
SCALE	AS SHOWN
DESIGNER	DGR
DRAWN BY	JAM
JOB NO.	A21626
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OF	9 SHEETS

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1	WQMP - REVISIONS	4/13	EMK		
2					
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Attachment 2
Hydrology Summary

HYDROLOGY SUMMARY [FLOW IN CFS]

		DMA 1	DMA 2	DMA 3	Total
2-Year 1-Hour	Pre-Development	3.957	0.950	0.852	5.760
	Post-Development	6.429	1.735	1.597	9.761
	Basin Outflow	0.196	0.000	0.086	0.282

		DMA 1	DMA 2	DMA 3	Total
2-Year 3-Hour	Pre-Development	2.288	0.549	0.493	3.330
	Post-Development	4.029	0.928	0.907	5.864
	Basin Outflow	0.196	0.070	0.196	0.462

		DMA 1	DMA 2	DMA 3	Total
2-Year 6-Hour	Pre-Development	1.930	0.464	0.416	2.810
	Post-Development	3.671	0.847	0.824	5.342
	Basin Outflow	0.196	0.141	0.196	0.533

		DMA 1	DMA 2	DMA 3	Total
2-Year 24-Hour	Pre-Development	0.172	0.041	0.037	0.250
	Post-Development	1.354	0.292	0.294	1.940
	Basin Outflow	0.196	0.171	0.196	0.563

		DMA 1	DMA 2	DMA 3	Total
5-Year 1-Hour	Pre-Development	6.341	1.523	1.366	9.230
	Post-Development	9.148	2.495	2.264	13.907
	Basin Outflow	0.196	0.049	0.180	0.425

		DMA 1	DMA 2	DMA 3	Total
5-Year 3-Hour	Pre-Development	3.840	0.922	0.827	5.590
	Post-Development	5.667	1.337	1.273	8.277
	Basin Outflow	0.196	0.148	0.196	0.540

		DMA 1	DMA 2	DMA 3	Total
5-Year 6-Hour	Pre-Development	3.387	0.813	0.730	4.930
	Post-Development	5.179	1.228	1.166	7.573
	Basin Outflow	0.196	0.196	0.196	0.588

		DMA 1	DMA 2	DMA 3	Total
5-Year 24-Hour	Pre-Development	0.261	0.063	0.056	0.380
	Post-Development	1.838	0.396	0.398	2.632
	Basin Outflow	0.196	0.196	0.196	0.588

		DMA 1	DMA 2	DMA 3	Total
10-Year 1-Hour	Pre-Development	9.309	2.236	2.005	13.550
	Post-Development	11.513	3.171	2.831	17.515
	Basin Outflow	0.196	0.116	0.196	0.508

		DMA 1	DMA 2	DMA 3	Total
10-Year 3-Hour	Pre-Development	6.190	1.487	1.333	9.010
	Post-Development	7.203	1.748	1.612	10.563
	Basin Outflow	0.196	0.196	0.196	0.588

		DMA 1	DMA 2	DMA 3	Total
10-Year 6-Hour	Pre-Development	5.647	1.356	1.217	8.220
	Post-Development	6.625	1.617	1.487	9.729
	Basin Outflow	0.196	0.196	0.196	0.588

		DMA 1	DMA 2	DMA 3	Total
10-Year 24-Hour	Pre-Development	1.724	0.414	0.371	2.510
	Post-Development	2.314	0.510	0.501	3.325
	Basin Outflow	1.346	0.196	0.196	1.738

		DMA 1	DMA 2	DMA 3	Total
100-Year 1-Hour	Pre-Development	16.028	3.849	3.453	23.330
	Post-Development	18.643	5.172	4.563	28.378
	Basin Outflow	0.196	0.196	0.196	0.588

		DMA 1	DMA 2	DMA 3	Total
100-Year 3-Hour	Pre-Development	10.868	2.610	2.341	15.820
	Post-Development	11.594	2.867	2.587	17.048
	Basin Outflow	1.286	0.196	0.196	1.678

		DMA 1	DMA 2	DMA 3	Total
100-Year 6-Hour	Pre-Development	10.023	2.407	2.159	14.590
	Post-Development	10.699	2.664	2.401	15.764
	Basin Outflow	4.930	0.627	0.196	5.753

		DMA 1	DMA 2	DMA 3	Total
100-Year 24-Hour	Pre-Development	3.882	0.932	0.836	5.650
	Post-Development	4.082	0.957	0.881	5.920
	Basin Outflow	3.639	0.713	0.565	4.917

Attachment 3
Unit Hydrograph Calculations

Existing 2-Year

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX12.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 2YR-1HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

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

9.57 0.48 4.60

100 YEAR Area rainfall data:

Area(Ac.)[1] Rainfall(In)[2] Weighting[1*2]
9.57 1.25 11.97

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.480(In)
Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.480(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.480(In)

Sub-Area Data:

Area(Ac.) Runoff Index Impervious %
9.575 85.00 0.000
Total Area Entered = 9.57(Ac.)

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
Minimum soil loss rate ((In/Hr)) = 0.181
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.4800

U n i t H y d r o g r a p h
V A L L E Y S - C u r v e

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

The following loss rate calculations reflect use of the minimum calculated loss

1+20

0.1361

0.01 Q

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Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX32.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 2YR-3HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
 9.57 0.80 7.66

100 YEAR Area rainfall data:

Area(Ac.)[1] Rainfall(In)[2] Weighting[1*2]
 9.57 1.95 18.67

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

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

Sub-Area Data:

Area(Ac.) Runoff Index Impervious %
 9.575 85.00 0.000
 Total Area Entered = 9.57(Ac.)

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
 Minimum soil loss rate ((In/Hr)) = 0.181
 (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	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	1.30	0.125	(0.362)	0.112	0.012
2	0.17	1.30	0.125	(0.362)	0.112	0.012
3	0.25	1.10	0.106	(0.362)	0.095	0.011
4	0.33	1.50	0.144	(0.362)	0.130	0.014
5	0.42	1.50	0.144	(0.362)	0.130	0.014
6	0.50	1.80	0.173	(0.362)	0.156	0.017
7	0.58	1.50	0.144	(0.362)	0.130	0.014
8	0.67	1.80	0.173	(0.362)	0.156	0.017
9	0.75	1.80	0.173	(0.362)	0.156	0.017
10	0.83	1.50	0.144	(0.362)	0.130	0.014
11	0.92	1.60	0.154	(0.362)	0.138	0.015
12	1.00	1.80	0.173	(0.362)	0.156	0.017
13	1.08	2.20	0.211	(0.362)	0.190	0.021
14	1.17	2.20	0.211	(0.362)	0.190	0.021
15	1.25	2.20	0.211	(0.362)	0.190	0.021
16	1.33	2.00	0.192	(0.362)	0.173	0.019
17	1.42	2.60	0.250	(0.362)	0.225	0.025
18	1.50	2.70	0.259	(0.362)	0.233	0.026
19	1.58	2.40	0.230	(0.362)	0.207	0.023
20	1.67	2.70	0.259	(0.362)	0.233	0.026
21	1.75	3.30	0.317	(0.362)	0.285	0.032
22	1.83	3.10	0.298	(0.362)	0.268	0.030
23	1.92	2.90	0.278	(0.362)	0.251	0.028
24	2.00	3.00	0.288	(0.362)	0.259	0.029
25	2.08	3.10	0.298	(0.362)	0.268	0.030
26	2.17	4.20	0.403	0.362	(0.363)	0.041
27	2.25	5.00	0.480	0.362	(0.432)	0.118
28	2.33	3.50	0.336	(0.362)	0.302	0.034
29	2.42	6.80	0.653	0.362	(0.587)	0.291
30	2.50	7.30	0.701	0.362	(0.631)	0.339
31	2.58	8.20	0.787	0.362	(0.708)	0.425
32	2.67	5.90	0.566	0.362	(0.510)	0.204
33	2.75	2.00	0.192	(0.362)	0.173	0.019
34	2.83	1.80	0.173	(0.362)	0.156	0.017
35	2.92	1.80	0.173	(0.362)	0.156	0.017
36	3.00	0.60	0.058	(0.362)	0.052	0.006

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.0

Flood volume = Effective rainfall 0.17(In)
 times area 9.6(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
 Total soil loss = 0.63(In)
 Total soil loss = 0.504(Ac.Ft)
 Total rainfall = 0.80(In)
 Flood volume = 5848.4 Cubic Feet

Total soil loss = 21956.2 Cubic Feet

 Peak flow rate of this hydrograph = 3.330(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	2.5	5.0	7.5	10.0
0+ 5	0.0003	0.04	Q				
0+10	0.0010	0.10	Q				
0+15	0.0017	0.10	Q				
0+20	0.0025	0.12	Q				
0+25	0.0034	0.13	QV				
0+30	0.0044	0.15	QV				
0+35	0.0055	0.15	QV				
0+40	0.0065	0.15	QV				
0+45	0.0076	0.16	Q V				
0+50	0.0087	0.16	Q V				
0+55	0.0097	0.15	Q V				
1+ 0	0.0108	0.16	Q V				
1+ 5	0.0120	0.18	Q V				
1+10	0.0134	0.20	Q V				
1+15	0.0147	0.20	Q V				
1+20	0.0161	0.20	Q V				
1+25	0.0175	0.21	Q V				
1+30	0.0192	0.24	Q V				
1+35	0.0208	0.23	Q V				
1+40	0.0224	0.24	Q V				
1+45	0.0242	0.27	Q V				
1+50	0.0262	0.29	Q V				
1+55	0.0281	0.28	Q V				
2+ 0	0.0300	0.28	Q V				
2+ 5	0.0320	0.28	Q V				
2+10	0.0342	0.33	Q V				
2+15	0.0387	0.64	Q V				
2+20	0.0435	0.70	Q V				
2+25	0.0525	1.31	Q V				
2+30	0.0702	2.57	Q V				
2+35	0.0932	3.33	Q V				
2+40	0.1144	3.08	Q V				
2+45	0.1256	1.63	Q V				
2+50	0.1300	0.63	Q V				
2+55	0.1325	0.36	Q V				
3+ 0	0.1337	0.18	Q V				
3+ 5	0.1341	0.06	Q V				

3+10	0.1342	0.02	Q				V
3+15	0.1343	0.01	Q				V
3+20	0.1343	0.00	Q				V

6+15	0.0365	0.10	Q	V			
6+20	0.0373	0.12	Q	V			
6+25	0.0382	0.13	Q	V			
6+30	0.0392	0.15	Q	V			
6+35	0.0403	0.15	Q	V			
6+40	0.0413	0.15	Q	V			
6+45	0.0424	0.16	Q	V			
6+50	0.0435	0.16	Q	V			
6+55	0.0445	0.15	Q	V			
7+ 0	0.0456	0.16	Q	V			
7+ 5	0.0468	0.18	Q	V			
7+10	0.0481	0.20	Q	V			
7+15	0.0495	0.20	Q	V			
7+20	0.0509	0.20	Q	V			
7+25	0.0523	0.21	Q	V			
7+30	0.0539	0.24	Q	V			
7+35	0.0556	0.23	Q	V			
7+40	0.0572	0.24	Q	V			
7+45	0.0590	0.27	Q	V			
7+50	0.0610	0.29	Q	V			
7+55	0.0629	0.28	Q	V			
8+ 0	0.0648	0.28	Q	V			
8+ 5	0.0668	0.28	Q	V			
8+10	0.0690	0.33	Q	V			
8+15	0.0734	0.64	Q	V			
8+20	0.0783	0.70	Q	V			

8+25	0.0873	1.31		Q		V			
8+30	0.1050	2.57			Q		V		
8+35	0.1280	3.33				Q		V	
8+40	0.1492	3.08			Q				V
8+45	0.1604	1.63		Q					V
8+50	0.1648	0.63		Q					V
8+55	0.1673	0.36		Q					V
9+ 0	0.1685	0.18		Q					V
9+ 5	0.1689	0.06		Q					V
9+10	0.1690	0.02		Q					V
9+15	0.1690	0.01		Q					V
9+20	0.1691	0.00		Q					V

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX62.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 2YR-6HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.11	10.63

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	2.70	25.85

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.110(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.110(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
 Minimum soil loss rate ((In/Hr)) = 0.181
 (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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.067	(0.362)	0.060	0.007
2	0.17	0.60	0.080	(0.362)	0.072	0.008
3	0.25	0.60	0.080	(0.362)	0.072	0.008
4	0.33	0.60	0.080	(0.362)	0.072	0.008
5	0.42	0.60	0.080	(0.362)	0.072	0.008
6	0.50	0.70	0.093	(0.362)	0.084	0.009
7	0.58	0.70	0.093	(0.362)	0.084	0.009
8	0.67	0.70	0.093	(0.362)	0.084	0.009
9	0.75	0.70	0.093	(0.362)	0.084	0.009
10	0.83	0.70	0.093	(0.362)	0.084	0.009
11	0.92	0.70	0.093	(0.362)	0.084	0.009
12	1.00	0.80	0.107	(0.362)	0.096	0.011
13	1.08	0.80	0.107	(0.362)	0.096	0.011
14	1.17	0.80	0.107	(0.362)	0.096	0.011
15	1.25	0.80	0.107	(0.362)	0.096	0.011
16	1.33	0.80	0.107	(0.362)	0.096	0.011
17	1.42	0.80	0.107	(0.362)	0.096	0.011
18	1.50	0.80	0.107	(0.362)	0.096	0.011
19	1.58	0.80	0.107	(0.362)	0.096	0.011
20	1.67	0.80	0.107	(0.362)	0.096	0.011
21	1.75	0.80	0.107	(0.362)	0.096	0.011
22	1.83	0.80	0.107	(0.362)	0.096	0.011
23	1.92	0.80	0.107	(0.362)	0.096	0.011
24	2.00	0.90	0.120	(0.362)	0.108	0.012
25	2.08	0.80	0.107	(0.362)	0.096	0.011
26	2.17	0.90	0.120	(0.362)	0.108	0.012
27	2.25	0.90	0.120	(0.362)	0.108	0.012
28	2.33	0.90	0.120	(0.362)	0.108	0.012
29	2.42	0.90	0.120	(0.362)	0.108	0.012
30	2.50	0.90	0.120	(0.362)	0.108	0.012
31	2.58	0.90	0.120	(0.362)	0.108	0.012
32	2.67	0.90	0.120	(0.362)	0.108	0.012
33	2.75	1.00	0.133	(0.362)	0.120	0.013
34	2.83	1.00	0.133	(0.362)	0.120	0.013
35	2.92	1.00	0.133	(0.362)	0.120	0.013
36	3.00	1.00	0.133	(0.362)	0.120	0.013
37	3.08	1.00	0.133	(0.362)	0.120	0.013
38	3.17	1.10	0.147	(0.362)	0.132	0.015
39	3.25	1.10	0.147	(0.362)	0.132	0.015
40	3.33	1.10	0.147	(0.362)	0.132	0.015
41	3.42	1.20	0.160	(0.362)	0.144	0.016
42	3.50	1.30	0.173	(0.362)	0.156	0.017
43	3.58	1.40	0.186	(0.362)	0.168	0.019
44	3.67	1.40	0.186	(0.362)	0.168	0.019

45	3.75	1.50	0.200	(0.362)	0.180	0.020
46	3.83	1.50	0.200	(0.362)	0.180	0.020
47	3.92	1.60	0.213	(0.362)	0.192	0.021
48	4.00	1.60	0.213	(0.362)	0.192	0.021
49	4.08	1.70	0.226	(0.362)	0.204	0.023
50	4.17	1.80	0.240	(0.362)	0.216	0.024
51	4.25	1.90	0.253	(0.362)	0.228	0.025
52	4.33	2.00	0.266	(0.362)	0.240	0.027
53	4.42	2.10	0.280	(0.362)	0.252	0.028
54	4.50	2.10	0.280	(0.362)	0.252	0.028
55	4.58	2.20	0.293	(0.362)	0.264	0.029
56	4.67	2.30	0.306	(0.362)	0.276	0.031
57	4.75	2.40	0.320	(0.362)	0.288	0.032
58	4.83	2.40	0.320	(0.362)	0.288	0.032
59	4.92	2.50	0.333	(0.362)	0.300	0.033
60	5.00	2.60	0.346	(0.362)	0.312	0.035
61	5.08	3.10	0.413	0.362 (0.372)		0.051
62	5.17	3.60	0.480	0.362 (0.432)		0.118
63	5.25	3.90	0.519	0.362 (0.468)		0.157
64	5.33	4.20	0.559	0.362 (0.503)		0.197
65	5.42	4.70	0.626	0.362 (0.563)		0.264
66	5.50	5.60	0.746	0.362 (0.671)		0.384
67	5.58	1.90	0.253	(0.362)	0.228	0.025
68	5.67	0.90	0.120	(0.362)	0.108	0.012
69	5.75	0.60	0.080	(0.362)	0.072	0.008
70	5.83	0.50	0.067	(0.362)	0.060	0.007
71	5.92	0.30	0.040	(0.362)	0.036	0.004
72	6.00	0.20	0.027	(0.362)	0.024	0.003

(Loss Rate Not Used)

Sum = 100.0

Sum = 2.2

Flood volume = Effective rainfall 0.18(In)
times area 9.6(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)

Total soil loss = 0.93(In)

Total soil loss = 0.741(Ac.Ft)

Total rainfall = 1.11(In)

Flood volume = 6281.9 Cubic Feet

Total soil loss = 32297.4 Cubic Feet

Peak flow rate of this hydrograph = 2.813(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0002	0.02	Q				

0+10	0.0006	0.06	Q				
0+15	0.0010	0.07	Q				
0+20	0.0016	0.07	Q				
0+25	0.0021	0.08	Q				
0+30	0.0026	0.08	Q				
0+35	0.0032	0.09	Q				
0+40	0.0039	0.09	QV				
0+45	0.0045	0.09	QV				
0+50	0.0051	0.09	QV				
0+55	0.0057	0.09	QV				
1+ 0	0.0064	0.09	QV				
1+ 5	0.0071	0.10	QV				
1+10	0.0078	0.10	Q V				
1+15	0.0085	0.10	Q V				
1+20	0.0092	0.10	Q V				
1+25	0.0099	0.10	Q V				
1+30	0.0106	0.10	Q V				
1+35	0.0113	0.10	Q V				
1+40	0.0120	0.10	Q V				
1+45	0.0127	0.10	Q V				
1+50	0.0134	0.10	Q V				
1+55	0.0141	0.10	Q V				
2+ 0	0.0149	0.11	Q V				
2+ 5	0.0156	0.11	Q V				
2+10	0.0164	0.11	Q V				
2+15	0.0172	0.11	Q V				
2+20	0.0180	0.12	Q V				
2+25	0.0188	0.12	Q V				
2+30	0.0195	0.12	Q V				
2+35	0.0203	0.12	Q V				
2+40	0.0211	0.12	Q V				
2+45	0.0220	0.12	Q V				
2+50	0.0228	0.13	Q V				
2+55	0.0237	0.13	Q V				
3+ 0	0.0246	0.13	Q V				
3+ 5	0.0255	0.13	Q V				
3+10	0.0264	0.13	Q V				
3+15	0.0274	0.14	Q V				
3+20	0.0283	0.14	Q V				
3+25	0.0293	0.15	Q V				
3+30	0.0304	0.16	Q V				
3+35	0.0316	0.17	Q V				
3+40	0.0328	0.18	Q V				
3+45	0.0341	0.18	Q V				
3+50	0.0354	0.19	Q V				
3+55	0.0367	0.20	Q V				
4+ 0	0.0381	0.20	Q V				
4+ 5	0.0396	0.21	Q V				
4+10	0.0411	0.22	Q V				
4+15	0.0427	0.23	Q V				

4+20	0.0444	0.25	Q		V				
4+25	0.0462	0.26	Q		V				
4+30	0.0480	0.27	Q		V				
4+35	0.0499	0.27	Q		V				
4+40	0.0518	0.28	Q		V				
4+45	0.0539	0.30	Q		V				
4+50	0.0560	0.31	Q		V				
4+55	0.0581	0.31	Q		V				
5+ 0	0.0604	0.32	Q		V				
5+ 5	0.0630	0.39	Q		V				
5+10	0.0678	0.69	Q		V				
5+15	0.0757	1.15	Q	Q		V			
5+20	0.0863	1.54		Q		V			
5+25	0.1002	2.02		Q		V			
5+30	0.1196	2.81		Q			V		
5+35	0.1347	2.19		Q				V	
5+40	0.1396	0.71	Q					V	
5+45	0.1420	0.35	Q					V	
5+50	0.1433	0.19	Q					V	
5+55	0.1437	0.06	Q					V	
6+ 0	0.1440	0.04	Q					V	
6+ 5	0.1441	0.02	Q					V	
6+10	0.1442	0.01	Q					V	
6+15	0.1442	0.00	Q					V	
6+20	0.1442	0.00	Q					V	

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX242.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 2YR-24HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
9.57	1.90	18.19

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	4.80	45.96

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 1.900(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.900(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
 Minimum soil loss rate ((In/Hr)) = 0.181
 (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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
Sum =		100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.015	(0.642)	0.014	0.002
2	0.17	0.07	0.015	(0.639)	0.014	0.002
3	0.25	0.07	0.015	(0.637)	0.014	0.002
4	0.33	0.10	0.023	(0.634)	0.021	0.002
5	0.42	0.10	0.023	(0.632)	0.021	0.002
6	0.50	0.10	0.023	(0.629)	0.021	0.002
7	0.58	0.10	0.023	(0.627)	0.021	0.002
8	0.67	0.10	0.023	(0.624)	0.021	0.002
9	0.75	0.10	0.023	(0.622)	0.021	0.002
10	0.83	0.13	0.030	(0.620)	0.027	0.003
11	0.92	0.13	0.030	(0.617)	0.027	0.003
12	1.00	0.13	0.030	(0.615)	0.027	0.003
13	1.08	0.10	0.023	(0.612)	0.021	0.002
14	1.17	0.10	0.023	(0.610)	0.021	0.002
15	1.25	0.10	0.023	(0.607)	0.021	0.002
16	1.33	0.10	0.023	(0.605)	0.021	0.002
17	1.42	0.10	0.023	(0.603)	0.021	0.002
18	1.50	0.10	0.023	(0.600)	0.021	0.002
19	1.58	0.10	0.023	(0.598)	0.021	0.002
20	1.67	0.10	0.023	(0.595)	0.021	0.002
21	1.75	0.10	0.023	(0.593)	0.021	0.002
22	1.83	0.13	0.030	(0.591)	0.027	0.003
23	1.92	0.13	0.030	(0.588)	0.027	0.003
24	2.00	0.13	0.030	(0.586)	0.027	0.003
25	2.08	0.13	0.030	(0.583)	0.027	0.003
26	2.17	0.13	0.030	(0.581)	0.027	0.003
27	2.25	0.13	0.030	(0.579)	0.027	0.003
28	2.33	0.13	0.030	(0.576)	0.027	0.003
29	2.42	0.13	0.030	(0.574)	0.027	0.003
30	2.50	0.13	0.030	(0.572)	0.027	0.003
31	2.58	0.17	0.038	(0.569)	0.034	0.004
32	2.67	0.17	0.038	(0.567)	0.034	0.004
33	2.75	0.17	0.038	(0.565)	0.034	0.004
34	2.83	0.17	0.038	(0.562)	0.034	0.004
35	2.92	0.17	0.038	(0.560)	0.034	0.004
36	3.00	0.17	0.038	(0.558)	0.034	0.004
37	3.08	0.17	0.038	(0.555)	0.034	0.004
38	3.17	0.17	0.038	(0.553)	0.034	0.004
39	3.25	0.17	0.038	(0.551)	0.034	0.004
40	3.33	0.17	0.038	(0.549)	0.034	0.004
41	3.42	0.17	0.038	(0.546)	0.034	0.004
42	3.50	0.17	0.038	(0.544)	0.034	0.004
43	3.58	0.17	0.038	(0.542)	0.034	0.004
44	3.67	0.17	0.038	(0.539)	0.034	0.004

45	3.75	0.17	0.038	(0.537)	0.034	0.004
46	3.83	0.20	0.046	(0.535)	0.041	0.005
47	3.92	0.20	0.046	(0.533)	0.041	0.005
48	4.00	0.20	0.046	(0.530)	0.041	0.005
49	4.08	0.20	0.046	(0.528)	0.041	0.005
50	4.17	0.20	0.046	(0.526)	0.041	0.005
51	4.25	0.20	0.046	(0.524)	0.041	0.005
52	4.33	0.23	0.053	(0.521)	0.048	0.005
53	4.42	0.23	0.053	(0.519)	0.048	0.005
54	4.50	0.23	0.053	(0.517)	0.048	0.005
55	4.58	0.23	0.053	(0.515)	0.048	0.005
56	4.67	0.23	0.053	(0.513)	0.048	0.005
57	4.75	0.23	0.053	(0.510)	0.048	0.005
58	4.83	0.27	0.061	(0.508)	0.055	0.006
59	4.92	0.27	0.061	(0.506)	0.055	0.006
60	5.00	0.27	0.061	(0.504)	0.055	0.006
61	5.08	0.20	0.046	(0.502)	0.041	0.005
62	5.17	0.20	0.046	(0.499)	0.041	0.005
63	5.25	0.20	0.046	(0.497)	0.041	0.005
64	5.33	0.23	0.053	(0.495)	0.048	0.005
65	5.42	0.23	0.053	(0.493)	0.048	0.005
66	5.50	0.23	0.053	(0.491)	0.048	0.005
67	5.58	0.27	0.061	(0.489)	0.055	0.006
68	5.67	0.27	0.061	(0.486)	0.055	0.006
69	5.75	0.27	0.061	(0.484)	0.055	0.006
70	5.83	0.27	0.061	(0.482)	0.055	0.006
71	5.92	0.27	0.061	(0.480)	0.055	0.006
72	6.00	0.27	0.061	(0.478)	0.055	0.006
73	6.08	0.30	0.068	(0.476)	0.062	0.007
74	6.17	0.30	0.068	(0.474)	0.062	0.007
75	6.25	0.30	0.068	(0.471)	0.062	0.007
76	6.33	0.30	0.068	(0.469)	0.062	0.007
77	6.42	0.30	0.068	(0.467)	0.062	0.007
78	6.50	0.30	0.068	(0.465)	0.062	0.007
79	6.58	0.33	0.076	(0.463)	0.068	0.008
80	6.67	0.33	0.076	(0.461)	0.068	0.008
81	6.75	0.33	0.076	(0.459)	0.068	0.008
82	6.83	0.33	0.076	(0.457)	0.068	0.008
83	6.92	0.33	0.076	(0.455)	0.068	0.008
84	7.00	0.33	0.076	(0.453)	0.068	0.008
85	7.08	0.33	0.076	(0.451)	0.068	0.008
86	7.17	0.33	0.076	(0.449)	0.068	0.008
87	7.25	0.33	0.076	(0.447)	0.068	0.008
88	7.33	0.37	0.084	(0.445)	0.075	0.008
89	7.42	0.37	0.084	(0.442)	0.075	0.008
90	7.50	0.37	0.084	(0.440)	0.075	0.008
91	7.58	0.40	0.091	(0.438)	0.082	0.009
92	7.67	0.40	0.091	(0.436)	0.082	0.009
93	7.75	0.40	0.091	(0.434)	0.082	0.009
94	7.83	0.43	0.099	(0.432)	0.089	0.010

95	7.92	0.43	0.099	(0.430)	0.089	0.010
96	8.00	0.43	0.099	(0.428)	0.089	0.010
97	8.08	0.50	0.114	(0.426)	0.103	0.011
98	8.17	0.50	0.114	(0.424)	0.103	0.011
99	8.25	0.50	0.114	(0.422)	0.103	0.011
100	8.33	0.50	0.114	(0.420)	0.103	0.011
101	8.42	0.50	0.114	(0.419)	0.103	0.011
102	8.50	0.50	0.114	(0.417)	0.103	0.011
103	8.58	0.53	0.122	(0.415)	0.109	0.012
104	8.67	0.53	0.122	(0.413)	0.109	0.012
105	8.75	0.53	0.122	(0.411)	0.109	0.012
106	8.83	0.57	0.129	(0.409)	0.116	0.013
107	8.92	0.57	0.129	(0.407)	0.116	0.013
108	9.00	0.57	0.129	(0.405)	0.116	0.013
109	9.08	0.63	0.144	(0.403)	0.130	0.014
110	9.17	0.63	0.144	(0.401)	0.130	0.014
111	9.25	0.63	0.144	(0.399)	0.130	0.014
112	9.33	0.67	0.152	(0.397)	0.137	0.015
113	9.42	0.67	0.152	(0.395)	0.137	0.015
114	9.50	0.67	0.152	(0.393)	0.137	0.015
115	9.58	0.70	0.160	(0.392)	0.144	0.016
116	9.67	0.70	0.160	(0.390)	0.144	0.016
117	9.75	0.70	0.160	(0.388)	0.144	0.016
118	9.83	0.73	0.167	(0.386)	0.150	0.017
119	9.92	0.73	0.167	(0.384)	0.150	0.017
120	10.00	0.73	0.167	(0.382)	0.150	0.017
121	10.08	0.50	0.114	(0.380)	0.103	0.011
122	10.17	0.50	0.114	(0.379)	0.103	0.011
123	10.25	0.50	0.114	(0.377)	0.103	0.011
124	10.33	0.50	0.114	(0.375)	0.103	0.011
125	10.42	0.50	0.114	(0.373)	0.103	0.011
126	10.50	0.50	0.114	(0.371)	0.103	0.011
127	10.58	0.67	0.152	(0.369)	0.137	0.015
128	10.67	0.67	0.152	(0.368)	0.137	0.015
129	10.75	0.67	0.152	(0.366)	0.137	0.015
130	10.83	0.67	0.152	(0.364)	0.137	0.015
131	10.92	0.67	0.152	(0.362)	0.137	0.015
132	11.00	0.67	0.152	(0.360)	0.137	0.015
133	11.08	0.63	0.144	(0.359)	0.130	0.014
134	11.17	0.63	0.144	(0.357)	0.130	0.014
135	11.25	0.63	0.144	(0.355)	0.130	0.014
136	11.33	0.63	0.144	(0.353)	0.130	0.014
137	11.42	0.63	0.144	(0.352)	0.130	0.014
138	11.50	0.63	0.144	(0.350)	0.130	0.014
139	11.58	0.57	0.129	(0.348)	0.116	0.013
140	11.67	0.57	0.129	(0.346)	0.116	0.013
141	11.75	0.57	0.129	(0.345)	0.116	0.013
142	11.83	0.60	0.137	(0.343)	0.123	0.014
143	11.92	0.60	0.137	(0.341)	0.123	0.014
144	12.00	0.60	0.137	(0.340)	0.123	0.014

145	12.08	0.83	0.190	(0.338)	0.171	0.019
146	12.17	0.83	0.190	(0.336)	0.171	0.019
147	12.25	0.83	0.190	(0.335)	0.171	0.019
148	12.33	0.87	0.198	(0.333)	0.178	0.020
149	12.42	0.87	0.198	(0.331)	0.178	0.020
150	12.50	0.87	0.198	(0.330)	0.178	0.020
151	12.58	0.93	0.213	(0.328)	0.192	0.021
152	12.67	0.93	0.213	(0.326)	0.192	0.021
153	12.75	0.93	0.213	(0.325)	0.192	0.021
154	12.83	0.97	0.220	(0.323)	0.198	0.022
155	12.92	0.97	0.220	(0.321)	0.198	0.022
156	13.00	0.97	0.220	(0.320)	0.198	0.022
157	13.08	1.13	0.258	(0.318)	0.233	0.026
158	13.17	1.13	0.258	(0.316)	0.233	0.026
159	13.25	1.13	0.258	(0.315)	0.233	0.026
160	13.33	1.13	0.258	(0.313)	0.233	0.026
161	13.42	1.13	0.258	(0.312)	0.233	0.026
162	13.50	1.13	0.258	(0.310)	0.233	0.026
163	13.58	0.77	0.175	(0.308)	0.157	0.017
164	13.67	0.77	0.175	(0.307)	0.157	0.017
165	13.75	0.77	0.175	(0.305)	0.157	0.017
166	13.83	0.77	0.175	(0.304)	0.157	0.017
167	13.92	0.77	0.175	(0.302)	0.157	0.017
168	14.00	0.77	0.175	(0.301)	0.157	0.017
169	14.08	0.90	0.205	(0.299)	0.185	0.021
170	14.17	0.90	0.205	(0.298)	0.185	0.021
171	14.25	0.90	0.205	(0.296)	0.185	0.021
172	14.33	0.87	0.198	(0.295)	0.178	0.020
173	14.42	0.87	0.198	(0.293)	0.178	0.020
174	14.50	0.87	0.198	(0.292)	0.178	0.020
175	14.58	0.87	0.198	(0.290)	0.178	0.020
176	14.67	0.87	0.198	(0.289)	0.178	0.020
177	14.75	0.87	0.198	(0.287)	0.178	0.020
178	14.83	0.83	0.190	(0.286)	0.171	0.019
179	14.92	0.83	0.190	(0.284)	0.171	0.019
180	15.00	0.83	0.190	(0.283)	0.171	0.019
181	15.08	0.80	0.182	(0.281)	0.164	0.018
182	15.17	0.80	0.182	(0.280)	0.164	0.018
183	15.25	0.80	0.182	(0.278)	0.164	0.018
184	15.33	0.77	0.175	(0.277)	0.157	0.017
185	15.42	0.77	0.175	(0.276)	0.157	0.017
186	15.50	0.77	0.175	(0.274)	0.157	0.017
187	15.58	0.63	0.144	(0.273)	0.130	0.014
188	15.67	0.63	0.144	(0.271)	0.130	0.014
189	15.75	0.63	0.144	(0.270)	0.130	0.014
190	15.83	0.63	0.144	(0.269)	0.130	0.014
191	15.92	0.63	0.144	(0.267)	0.130	0.014
192	16.00	0.63	0.144	(0.266)	0.130	0.014
193	16.08	0.13	0.030	(0.264)	0.027	0.003
194	16.17	0.13	0.030	(0.263)	0.027	0.003

195	16.25	0.13	0.030	(0.262)	0.027	0.003
196	16.33	0.13	0.030	(0.260)	0.027	0.003
197	16.42	0.13	0.030	(0.259)	0.027	0.003
198	16.50	0.13	0.030	(0.258)	0.027	0.003
199	16.58	0.10	0.023	(0.256)	0.021	0.002
200	16.67	0.10	0.023	(0.255)	0.021	0.002
201	16.75	0.10	0.023	(0.254)	0.021	0.002
202	16.83	0.10	0.023	(0.253)	0.021	0.002
203	16.92	0.10	0.023	(0.251)	0.021	0.002
204	17.00	0.10	0.023	(0.250)	0.021	0.002
205	17.08	0.17	0.038	(0.249)	0.034	0.004
206	17.17	0.17	0.038	(0.248)	0.034	0.004
207	17.25	0.17	0.038	(0.246)	0.034	0.004
208	17.33	0.17	0.038	(0.245)	0.034	0.004
209	17.42	0.17	0.038	(0.244)	0.034	0.004
210	17.50	0.17	0.038	(0.243)	0.034	0.004
211	17.58	0.17	0.038	(0.241)	0.034	0.004
212	17.67	0.17	0.038	(0.240)	0.034	0.004
213	17.75	0.17	0.038	(0.239)	0.034	0.004
214	17.83	0.13	0.030	(0.238)	0.027	0.003
215	17.92	0.13	0.030	(0.237)	0.027	0.003
216	18.00	0.13	0.030	(0.235)	0.027	0.003
217	18.08	0.13	0.030	(0.234)	0.027	0.003
218	18.17	0.13	0.030	(0.233)	0.027	0.003
219	18.25	0.13	0.030	(0.232)	0.027	0.003
220	18.33	0.13	0.030	(0.231)	0.027	0.003
221	18.42	0.13	0.030	(0.230)	0.027	0.003
222	18.50	0.13	0.030	(0.229)	0.027	0.003
223	18.58	0.10	0.023	(0.228)	0.021	0.002
224	18.67	0.10	0.023	(0.226)	0.021	0.002
225	18.75	0.10	0.023	(0.225)	0.021	0.002
226	18.83	0.07	0.015	(0.224)	0.014	0.002
227	18.92	0.07	0.015	(0.223)	0.014	0.002
228	19.00	0.07	0.015	(0.222)	0.014	0.002
229	19.08	0.10	0.023	(0.221)	0.021	0.002
230	19.17	0.10	0.023	(0.220)	0.021	0.002
231	19.25	0.10	0.023	(0.219)	0.021	0.002
232	19.33	0.13	0.030	(0.218)	0.027	0.003
233	19.42	0.13	0.030	(0.217)	0.027	0.003
234	19.50	0.13	0.030	(0.216)	0.027	0.003
235	19.58	0.10	0.023	(0.215)	0.021	0.002
236	19.67	0.10	0.023	(0.214)	0.021	0.002
237	19.75	0.10	0.023	(0.213)	0.021	0.002
238	19.83	0.07	0.015	(0.212)	0.014	0.002
239	19.92	0.07	0.015	(0.211)	0.014	0.002
240	20.00	0.07	0.015	(0.210)	0.014	0.002
241	20.08	0.10	0.023	(0.209)	0.021	0.002
242	20.17	0.10	0.023	(0.208)	0.021	0.002
243	20.25	0.10	0.023	(0.207)	0.021	0.002
244	20.33	0.10	0.023	(0.207)	0.021	0.002

Total rainfall = 1.90(In)
 Flood volume = 6603.8 Cubic Feet
 Total soil loss = 59433.8 Cubic Feet

 Peak flow rate of this hydrograph = 0.249(CFS)

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

 Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0001	0.01	Q				
0+15	0.0002	0.01	Q				
0+20	0.0003	0.02	Q				
0+25	0.0005	0.02	Q				
0+30	0.0006	0.02	Q				
0+35	0.0008	0.02	Q				
0+40	0.0009	0.02	Q				
0+45	0.0011	0.02	Q				
0+50	0.0012	0.02	Q				
0+55	0.0014	0.03	Q				
1+ 0	0.0016	0.03	Q				
1+ 5	0.0018	0.03	Q				
1+10	0.0020	0.02	Q				
1+15	0.0021	0.02	Q				
1+20	0.0023	0.02	Q				
1+25	0.0024	0.02	Q				
1+30	0.0026	0.02	Q				
1+35	0.0027	0.02	Q				
1+40	0.0029	0.02	Q				
1+45	0.0030	0.02	Q				
1+50	0.0032	0.02	Q				
1+55	0.0034	0.03	Q				
2+ 0	0.0036	0.03	Q				
2+ 5	0.0038	0.03	QV				
2+10	0.0040	0.03	QV				
2+15	0.0042	0.03	QV				
2+20	0.0044	0.03	QV				
2+25	0.0046	0.03	QV				
2+30	0.0048	0.03	QV				
2+35	0.0050	0.03	QV				
2+40	0.0053	0.04	QV				
2+45	0.0055	0.04	QV				
2+50	0.0058	0.04	QV				
2+55	0.0060	0.04	QV				

3+ 0	0.0063	0.04	QV
3+ 5	0.0065	0.04	QV
3+10	0.0068	0.04	QV
3+15	0.0070	0.04	QV
3+20	0.0073	0.04	QV
3+25	0.0076	0.04	QV
3+30	0.0078	0.04	Q V
3+35	0.0081	0.04	Q V
3+40	0.0083	0.04	Q V
3+45	0.0086	0.04	Q V
3+50	0.0088	0.04	Q V
3+55	0.0091	0.04	Q V
4+ 0	0.0094	0.04	Q V
4+ 5	0.0097	0.04	Q V
4+10	0.0100	0.04	Q V
4+15	0.0103	0.04	Q V
4+20	0.0107	0.05	Q V
4+25	0.0110	0.05	Q V
4+30	0.0113	0.05	Q V
4+35	0.0117	0.05	Q V
4+40	0.0121	0.05	Q V
4+45	0.0124	0.05	Q V
4+50	0.0128	0.05	Q V
4+55	0.0132	0.06	Q V
5+ 0	0.0136	0.06	Q V
5+ 5	0.0139	0.05	Q V
5+10	0.0143	0.05	Q V
5+15	0.0146	0.05	Q V
5+20	0.0149	0.05	Q V
5+25	0.0152	0.05	Q V
5+30	0.0156	0.05	Q V
5+35	0.0160	0.05	Q V
5+40	0.0164	0.06	Q V
5+45	0.0168	0.06	Q V
5+50	0.0172	0.06	Q V
5+55	0.0176	0.06	Q V
6+ 0	0.0180	0.06	Q V
6+ 5	0.0184	0.06	Q V
6+10	0.0188	0.06	Q V
6+15	0.0193	0.07	Q V
6+20	0.0197	0.07	Q V
6+25	0.0202	0.07	Q V
6+30	0.0207	0.07	Q V
6+35	0.0211	0.07	Q V
6+40	0.0216	0.07	Q V
6+45	0.0221	0.07	Q V
6+50	0.0226	0.07	Q V
6+55	0.0231	0.07	Q V
7+ 0	0.0236	0.07	Q V
7+ 5	0.0241	0.07	Q V

7+10	0.0247	0.07	Q	V				
7+15	0.0252	0.07	Q	V				
7+20	0.0257	0.08	Q	V				
7+25	0.0262	0.08	Q	V				
7+30	0.0268	0.08	Q	V				
7+35	0.0274	0.08	Q	V				
7+40	0.0279	0.09	Q	V				
7+45	0.0286	0.09	Q	V				
7+50	0.0292	0.09	Q	V				
7+55	0.0298	0.09	Q	V				
8+ 0	0.0305	0.09	Q	V				
8+ 5	0.0312	0.10	Q	V				
8+10	0.0319	0.11	Q	V				
8+15	0.0327	0.11	Q	V				
8+20	0.0334	0.11	Q	V				
8+25	0.0342	0.11	Q	V				
8+30	0.0349	0.11	Q	V				
8+35	0.0357	0.11	Q	V				
8+40	0.0365	0.12	Q	V				
8+45	0.0373	0.12	Q	V				
8+50	0.0381	0.12	Q	V				
8+55	0.0390	0.12	Q	V				
9+ 0	0.0398	0.12	Q	V				
9+ 5	0.0407	0.13	Q	V				
9+10	0.0417	0.14	Q	V				
9+15	0.0426	0.14	Q	V				
9+20	0.0436	0.14	Q	V				
9+25	0.0446	0.15	Q	V				
9+30	0.0456	0.15	Q	V				
9+35	0.0466	0.15	Q	V				
9+40	0.0477	0.15	Q	V				
9+45	0.0488	0.15	Q	V				
9+50	0.0498	0.16	Q	V				
9+55	0.0509	0.16	Q	V				
10+ 0	0.0520	0.16	Q	V				
10+ 5	0.0530	0.14	Q	V				
10+10	0.0538	0.12	Q	V				
10+15	0.0546	0.11	Q	V				
10+20	0.0554	0.11	Q	V				
10+25	0.0562	0.11	Q	V				
10+30	0.0569	0.11	Q	V				
10+35	0.0578	0.12	Q	V				
10+40	0.0587	0.14	Q	V				
10+45	0.0597	0.14	Q	V				
10+50	0.0607	0.15	Q	V				
10+55	0.0617	0.15	Q	V				
11+ 0	0.0627	0.15	Q	V				
11+ 5	0.0637	0.14	Q	V				
11+10	0.0647	0.14	Q	V				
11+15	0.0657	0.14	Q	V				

11+20	0.0666	0.14	Q	V			
11+25	0.0676	0.14	Q	V			
11+30	0.0686	0.14	Q	V			
11+35	0.0695	0.13	Q	V			
11+40	0.0704	0.13	Q	V			
11+45	0.0712	0.13	Q	V			
11+50	0.0721	0.13	Q	V			
11+55	0.0730	0.13	Q	V			
12+ 0	0.0739	0.13	Q	V			
12+ 5	0.0749	0.15	Q	V			
12+10	0.0761	0.17	Q	V			
12+15	0.0774	0.18	Q	V			
12+20	0.0787	0.18	Q	V			
12+25	0.0800	0.19	Q	V			
12+30	0.0813	0.19	Q	V			
12+35	0.0826	0.20	Q	V			
12+40	0.0840	0.20	Q	V			
12+45	0.0854	0.20	Q	V			
12+50	0.0868	0.21	Q	V			
12+55	0.0883	0.21	Q	V			
13+ 0	0.0898	0.21	Q	V			
13+ 5	0.0913	0.23	Q	V			
13+10	0.0930	0.24	Q	V			
13+15	0.0947	0.25	Q	V			
13+20	0.0964	0.25	Q	V			
13+25	0.0981	0.25	Q	V			
13+30	0.0998	0.25	Q	V			
13+35	0.1014	0.22	Q	V			
13+40	0.1026	0.18	Q	V			
13+45	0.1038	0.17	Q	V			
13+50	0.1050	0.17	Q	V			
13+55	0.1062	0.17	Q	V			
14+ 0	0.1073	0.17	Q	V			
14+ 5	0.1086	0.18	Q	V			
14+10	0.1099	0.19	Q	V			
14+15	0.1112	0.20	Q	V			
14+20	0.1126	0.19	Q	V			
14+25	0.1139	0.19	Q	V			
14+30	0.1152	0.19	Q	V			
14+35	0.1165	0.19	Q	V			
14+40	0.1179	0.19	Q	V			
14+45	0.1192	0.19	Q	V			
14+50	0.1205	0.19	Q	V			
14+55	0.1217	0.18	Q	V			
15+ 0	0.1230	0.18	Q	V			
15+ 5	0.1242	0.18	Q	V			
15+10	0.1255	0.18	Q	V			
15+15	0.1267	0.18	Q	V			
15+20	0.1279	0.17	Q	V			
15+25	0.1291	0.17	Q	V			

15+30	0.1302	0.17	Q				V
15+35	0.1313	0.16	Q				V
15+40	0.1323	0.14	Q				V
15+45	0.1333	0.14	Q				V
15+50	0.1342	0.14	Q				V
15+55	0.1352	0.14	Q				V
16+ 0	0.1362	0.14	Q				V
16+ 5	0.1369	0.10	Q				V
16+10	0.1372	0.05	Q				V
16+15	0.1374	0.04	Q				V
16+20	0.1377	0.03	Q				V
16+25	0.1379	0.03	Q				V
16+30	0.1381	0.03	Q				V
16+35	0.1383	0.03	Q				V
16+40	0.1384	0.02	Q				V
16+45	0.1386	0.02	Q				V
16+50	0.1387	0.02	Q				V
16+55	0.1389	0.02	Q				V
17+ 0	0.1390	0.02	Q				V
17+ 5	0.1392	0.03	Q				V
17+10	0.1395	0.03	Q				V
17+15	0.1397	0.04	Q				V
17+20	0.1399	0.04	Q				V
17+25	0.1402	0.04	Q				V
17+30	0.1405	0.04	Q				V
17+35	0.1407	0.04	Q				V
17+40	0.1410	0.04	Q				V
17+45	0.1412	0.04	Q				V
17+50	0.1414	0.03	Q				V
17+55	0.1417	0.03	Q				V
18+ 0	0.1419	0.03	Q				V
18+ 5	0.1421	0.03	Q				V
18+10	0.1423	0.03	Q				V
18+15	0.1425	0.03	Q				V
18+20	0.1427	0.03	Q				V
18+25	0.1429	0.03	Q				V
18+30	0.1431	0.03	Q				V
18+35	0.1433	0.03	Q				V
18+40	0.1434	0.02	Q				V
18+45	0.1436	0.02	Q				V
18+50	0.1437	0.02	Q				V
18+55	0.1438	0.02	Q				V
19+ 0	0.1439	0.02	Q				V
19+ 5	0.1440	0.02	Q				V
19+10	0.1442	0.02	Q				V
19+15	0.1443	0.02	Q				V
19+20	0.1445	0.02	Q				V
19+25	0.1447	0.03	Q				V
19+30	0.1449	0.03	Q				V
19+35	0.1451	0.03	Q				V

19+40	0.1452	0.02	Q				V
19+45	0.1454	0.02	Q				V
19+50	0.1455	0.02	Q				V
19+55	0.1456	0.02	Q				V
20+ 0	0.1457	0.02	Q				V
20+ 5	0.1459	0.02	Q				V
20+10	0.1460	0.02	Q				V
20+15	0.1462	0.02	Q				V
20+20	0.1463	0.02	Q				V
20+25	0.1465	0.02	Q				V
20+30	0.1466	0.02	Q				V
20+35	0.1468	0.02	Q				V
20+40	0.1469	0.02	Q				V
20+45	0.1471	0.02	Q				V
20+50	0.1472	0.02	Q				V
20+55	0.1473	0.02	Q				V
21+ 0	0.1474	0.02	Q				V
21+ 5	0.1475	0.02	Q				V
21+10	0.1477	0.02	Q				V
21+15	0.1478	0.02	Q				V
21+20	0.1480	0.02	Q				V
21+25	0.1481	0.02	Q				V
21+30	0.1482	0.02	Q				V
21+35	0.1483	0.02	Q				V
21+40	0.1484	0.02	Q				V
21+45	0.1486	0.02	Q				V
21+50	0.1487	0.02	Q				V
21+55	0.1488	0.02	Q				V
22+ 0	0.1489	0.02	Q				V
22+ 5	0.1491	0.02	Q				V
22+10	0.1492	0.02	Q				V
22+15	0.1493	0.02	Q				V
22+20	0.1495	0.02	Q				V
22+25	0.1496	0.02	Q				V
22+30	0.1497	0.02	Q				V
22+35	0.1498	0.01	Q				V
22+40	0.1499	0.01	Q				V
22+45	0.1500	0.01	Q				V
22+50	0.1501	0.01	Q				V
22+55	0.1502	0.01	Q				V
23+ 0	0.1503	0.01	Q				V
23+ 5	0.1504	0.01	Q				V
23+10	0.1505	0.01	Q				V
23+15	0.1506	0.01	Q				V
23+20	0.1507	0.01	Q				V
23+25	0.1508	0.01	Q				V
23+30	0.1509	0.01	Q				V
23+35	0.1510	0.01	Q				V
23+40	0.1511	0.01	Q				V
23+45	0.1512	0.01	Q				V

23+50	0.1513	0.01	Q				V
23+55	0.1514	0.01	Q				V
24+ 0	0.1515	0.01	Q				V
24+ 5	0.1516	0.01	Q				V
24+10	0.1516	0.00	Q				V
24+15	0.1516	0.00	Q				V
24+20	0.1516	0.00	Q				V

Existing 5-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 5YR-1HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	0.48	4.60

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.25	11.97

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.660(In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 0.660(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
 Minimum soil loss rate ((In/Hr)) = 0.181
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.900

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

0+50	0.1439	9.23				V		Q	
0+55	0.2074	9.22					V	Q	
1+ 0	0.2307	3.38		Q				V	
1+ 5	0.2399	1.34		Q				V	
1+10	0.2441	0.61		Q				V	
1+15	0.2447	0.09	Q					V	
1+20	0.2448	0.01	Q					V	

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 5YR-3HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
9.57	0.80	7.66

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.95	18.67

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.069(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.069(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
 Minimum soil loss rate ((In/Hr)) = 0.181
 (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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

Total soil loss = 27053.0 Cubic Feet

 Peak flow rate of this hydrograph = 5.594(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	2.5	5.0	7.5	10.0
0+ 5	0.0004	0.06	Q				
0+10	0.0013	0.13	Q				
0+15	0.0023	0.14	Q				
0+20	0.0033	0.15	Q				
0+25	0.0046	0.18	Q				
0+30	0.0059	0.20	QV				
0+35	0.0073	0.20	QV				
0+40	0.0087	0.20	QV				
0+45	0.0102	0.22	QV				
0+50	0.0116	0.21	Q V				
0+55	0.0130	0.20	Q V				
1+ 0	0.0144	0.21	Q V				
1+ 5	0.0161	0.24	Q V				
1+10	0.0179	0.26	Q V				
1+15	0.0197	0.27	Q V				
1+20	0.0215	0.26	Q V				
1+25	0.0234	0.28	Q V				
1+30	0.0256	0.32	Q V				
1+35	0.0278	0.31	Q V				
1+40	0.0299	0.31	Q V				
1+45	0.0328	0.42	Q V				
1+50	0.0361	0.47	Q V				
1+55	0.0388	0.39	Q V				
2+ 0	0.0414	0.38	Q V				
2+ 5	0.0440	0.38	Q V				
2+10	0.0499	0.86	Q V				
2+15	0.0625	1.83	Q V				
2+20	0.0746	1.75	Q V				
2+25	0.0921	2.54	Q V				
2+30	0.1233	4.53	Q V				
2+35	0.1618	5.59	Q V				
2+40	0.1982	5.27	Q V				
2+45	0.2184	2.94	Q V				
2+50	0.2256	1.05	Q V				
2+55	0.2295	0.57	Q V				
3+ 0	0.2314	0.27	Q V				
3+ 5	0.2319	0.07	Q V				

3+10	0.2321	0.02	Q				V
3+15	0.2322	0.01	Q				V
3+20	0.2322	0.00	Q				V

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

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 5YR-6HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.11	10.63

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	2.70	25.85

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.482(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.482(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
 Minimum soil loss rate ((In/Hr)) = 0.181
 (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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.089	(0.362)	0.080	0.009
2	0.17	0.60	0.107	(0.362)	0.096	0.011
3	0.25	0.60	0.107	(0.362)	0.096	0.011
4	0.33	0.60	0.107	(0.362)	0.096	0.011
5	0.42	0.60	0.107	(0.362)	0.096	0.011
6	0.50	0.70	0.125	(0.362)	0.112	0.012
7	0.58	0.70	0.125	(0.362)	0.112	0.012
8	0.67	0.70	0.125	(0.362)	0.112	0.012
9	0.75	0.70	0.125	(0.362)	0.112	0.012
10	0.83	0.70	0.125	(0.362)	0.112	0.012
11	0.92	0.70	0.125	(0.362)	0.112	0.012
12	1.00	0.80	0.142	(0.362)	0.128	0.014
13	1.08	0.80	0.142	(0.362)	0.128	0.014
14	1.17	0.80	0.142	(0.362)	0.128	0.014
15	1.25	0.80	0.142	(0.362)	0.128	0.014
16	1.33	0.80	0.142	(0.362)	0.128	0.014
17	1.42	0.80	0.142	(0.362)	0.128	0.014
18	1.50	0.80	0.142	(0.362)	0.128	0.014
19	1.58	0.80	0.142	(0.362)	0.128	0.014
20	1.67	0.80	0.142	(0.362)	0.128	0.014
21	1.75	0.80	0.142	(0.362)	0.128	0.014
22	1.83	0.80	0.142	(0.362)	0.128	0.014
23	1.92	0.80	0.142	(0.362)	0.128	0.014
24	2.00	0.90	0.160	(0.362)	0.144	0.016
25	2.08	0.80	0.142	(0.362)	0.128	0.014
26	2.17	0.90	0.160	(0.362)	0.144	0.016
27	2.25	0.90	0.160	(0.362)	0.144	0.016
28	2.33	0.90	0.160	(0.362)	0.144	0.016
29	2.42	0.90	0.160	(0.362)	0.144	0.016
30	2.50	0.90	0.160	(0.362)	0.144	0.016
31	2.58	0.90	0.160	(0.362)	0.144	0.016
32	2.67	0.90	0.160	(0.362)	0.144	0.016
33	2.75	1.00	0.178	(0.362)	0.160	0.018
34	2.83	1.00	0.178	(0.362)	0.160	0.018
35	2.92	1.00	0.178	(0.362)	0.160	0.018
36	3.00	1.00	0.178	(0.362)	0.160	0.018
37	3.08	1.00	0.178	(0.362)	0.160	0.018
38	3.17	1.10	0.196	(0.362)	0.176	0.020
39	3.25	1.10	0.196	(0.362)	0.176	0.020
40	3.33	1.10	0.196	(0.362)	0.176	0.020
41	3.42	1.20	0.213	(0.362)	0.192	0.021
42	3.50	1.30	0.231	(0.362)	0.208	0.023
43	3.58	1.40	0.249	(0.362)	0.224	0.025
44	3.67	1.40	0.249	(0.362)	0.224	0.025

0+10	0.0007	0.08	Q				
0+15	0.0014	0.09	Q				
0+20	0.0021	0.10	Q				
0+25	0.0028	0.10	Q				
0+30	0.0035	0.11	Q				
0+35	0.0043	0.12	Q				
0+40	0.0052	0.12	Q				
0+45	0.0060	0.12	Q				
0+50	0.0068	0.12	QV				
0+55	0.0076	0.12	QV				
1+ 0	0.0085	0.13	QV				
1+ 5	0.0094	0.13	QV				
1+10	0.0104	0.14	QV				
1+15	0.0113	0.14	QV				
1+20	0.0123	0.14	QV				
1+25	0.0132	0.14	Q V				
1+30	0.0142	0.14	Q V				
1+35	0.0151	0.14	Q V				
1+40	0.0160	0.14	Q V				
1+45	0.0170	0.14	Q V				
1+50	0.0179	0.14	Q V				
1+55	0.0189	0.14	Q V				
2+ 0	0.0199	0.14	Q V				
2+ 5	0.0209	0.15	Q V				
2+10	0.0219	0.15	Q V				
2+15	0.0229	0.15	Q V				
2+20	0.0240	0.15	Q V				
2+25	0.0250	0.15	Q V				
2+30	0.0261	0.15	Q V				
2+35	0.0272	0.15	Q V				
2+40	0.0282	0.15	Q V				
2+45	0.0293	0.16	Q V				
2+50	0.0305	0.17	Q V				
2+55	0.0317	0.17	Q V				
3+ 0	0.0329	0.17	Q V				
3+ 5	0.0340	0.17	Q V				
3+10	0.0353	0.18	Q V				
3+15	0.0365	0.19	Q V				
3+20	0.0378	0.19	Q V				
3+25	0.0392	0.19	Q V				
3+30	0.0406	0.21	Q V				
3+35	0.0422	0.23	Q V				
3+40	0.0438	0.24	Q V				
3+45	0.0455	0.24	Q V				
3+50	0.0472	0.25	Q V				
3+55	0.0490	0.26	Q V				
4+ 0	0.0509	0.27	Q V				
4+ 5	0.0528	0.28	Q V				
4+10	0.0549	0.29	Q V				
4+15	0.0570	0.31	Q V				

4+20	0.0593	0.33	Q	V				
4+25	0.0616	0.34	Q	V				
4+30	0.0641	0.36	Q	V				
4+35	0.0666	0.37	Q	V				
4+40	0.0694	0.40	Q	V				
4+45	0.0728	0.50	Q	V				
4+50	0.0769	0.59	Q	V	V			
4+55	0.0815	0.67	Q	V	V			
5+ 0	0.0872	0.83	Q	Q	V	V		
5+ 5	0.0957	1.24	Q	Q	V	V	V	
5+10	0.1093	1.97	Q	Q	V	V	V	V
5+15	0.1276	2.65	Q	Q	V	V	V	V
5+20	0.1497	3.21	Q	Q	Q	V	V	V
5+25	0.1764	3.87	Q	Q	Q	Q	V	V
5+30	0.2103	4.93	Q	Q	Q	Q	V	V
5+35	0.2356	3.68	Q	Q	Q	Q	V	V
5+40	0.2436	1.16	Q	Q	Q	Q	V	V
5+45	0.2474	0.55	Q	Q	Q	Q	V	V
5+50	0.2493	0.28	Q	Q	Q	Q	V	V
5+55	0.2499	0.09	Q	Q	Q	Q	V	V
6+ 0	0.2503	0.05	Q	Q	Q	Q	V	V
6+ 5	0.2505	0.03	Q	Q	Q	Q	V	V
6+10	0.2505	0.01	Q	Q	Q	Q	V	V
6+15	0.2506	0.00	Q	Q	Q	Q	V	V
6+20	0.2506	0.00	Q	Q	Q	Q	V	V

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX245.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 5YR-24HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
9.57	1.90	18.19

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	4.80	45.96

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 2.579(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.579(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	70.0	0.362	0.000	0.362	1.000	0.362
Sum (F) =						0.362

Area averaged mean soil loss (F) (In/Hr) = 0.362
 Minimum soil loss rate ((In/Hr)) = 0.181
 (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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.021	(0.642)	0.019	0.002
2	0.17	0.07	0.021	(0.639)	0.019	0.002
3	0.25	0.07	0.021	(0.637)	0.019	0.002
4	0.33	0.10	0.031	(0.634)	0.028	0.003
5	0.42	0.10	0.031	(0.632)	0.028	0.003
6	0.50	0.10	0.031	(0.629)	0.028	0.003
7	0.58	0.10	0.031	(0.627)	0.028	0.003
8	0.67	0.10	0.031	(0.624)	0.028	0.003
9	0.75	0.10	0.031	(0.622)	0.028	0.003
10	0.83	0.13	0.041	(0.620)	0.037	0.004
11	0.92	0.13	0.041	(0.617)	0.037	0.004
12	1.00	0.13	0.041	(0.615)	0.037	0.004
13	1.08	0.10	0.031	(0.612)	0.028	0.003
14	1.17	0.10	0.031	(0.610)	0.028	0.003
15	1.25	0.10	0.031	(0.607)	0.028	0.003
16	1.33	0.10	0.031	(0.605)	0.028	0.003
17	1.42	0.10	0.031	(0.603)	0.028	0.003
18	1.50	0.10	0.031	(0.600)	0.028	0.003
19	1.58	0.10	0.031	(0.598)	0.028	0.003
20	1.67	0.10	0.031	(0.595)	0.028	0.003
21	1.75	0.10	0.031	(0.593)	0.028	0.003
22	1.83	0.13	0.041	(0.591)	0.037	0.004
23	1.92	0.13	0.041	(0.588)	0.037	0.004
24	2.00	0.13	0.041	(0.586)	0.037	0.004
25	2.08	0.13	0.041	(0.583)	0.037	0.004
26	2.17	0.13	0.041	(0.581)	0.037	0.004
27	2.25	0.13	0.041	(0.579)	0.037	0.004
28	2.33	0.13	0.041	(0.576)	0.037	0.004
29	2.42	0.13	0.041	(0.574)	0.037	0.004
30	2.50	0.13	0.041	(0.572)	0.037	0.004
31	2.58	0.17	0.052	(0.569)	0.046	0.005
32	2.67	0.17	0.052	(0.567)	0.046	0.005
33	2.75	0.17	0.052	(0.565)	0.046	0.005
34	2.83	0.17	0.052	(0.562)	0.046	0.005
35	2.92	0.17	0.052	(0.560)	0.046	0.005
36	3.00	0.17	0.052	(0.558)	0.046	0.005
37	3.08	0.17	0.052	(0.555)	0.046	0.005
38	3.17	0.17	0.052	(0.553)	0.046	0.005
39	3.25	0.17	0.052	(0.551)	0.046	0.005
40	3.33	0.17	0.052	(0.549)	0.046	0.005
41	3.42	0.17	0.052	(0.546)	0.046	0.005
42	3.50	0.17	0.052	(0.544)	0.046	0.005
43	3.58	0.17	0.052	(0.542)	0.046	0.005
44	3.67	0.17	0.052	(0.539)	0.046	0.005

45	3.75	0.17	0.052	(0.537)	0.046	0.005
46	3.83	0.20	0.062	(0.535)	0.056	0.006
47	3.92	0.20	0.062	(0.533)	0.056	0.006
48	4.00	0.20	0.062	(0.530)	0.056	0.006
49	4.08	0.20	0.062	(0.528)	0.056	0.006
50	4.17	0.20	0.062	(0.526)	0.056	0.006
51	4.25	0.20	0.062	(0.524)	0.056	0.006
52	4.33	0.23	0.072	(0.521)	0.065	0.007
53	4.42	0.23	0.072	(0.519)	0.065	0.007
54	4.50	0.23	0.072	(0.517)	0.065	0.007
55	4.58	0.23	0.072	(0.515)	0.065	0.007
56	4.67	0.23	0.072	(0.513)	0.065	0.007
57	4.75	0.23	0.072	(0.510)	0.065	0.007
58	4.83	0.27	0.083	(0.508)	0.074	0.008
59	4.92	0.27	0.083	(0.506)	0.074	0.008
60	5.00	0.27	0.083	(0.504)	0.074	0.008
61	5.08	0.20	0.062	(0.502)	0.056	0.006
62	5.17	0.20	0.062	(0.499)	0.056	0.006
63	5.25	0.20	0.062	(0.497)	0.056	0.006
64	5.33	0.23	0.072	(0.495)	0.065	0.007
65	5.42	0.23	0.072	(0.493)	0.065	0.007
66	5.50	0.23	0.072	(0.491)	0.065	0.007
67	5.58	0.27	0.083	(0.489)	0.074	0.008
68	5.67	0.27	0.083	(0.486)	0.074	0.008
69	5.75	0.27	0.083	(0.484)	0.074	0.008
70	5.83	0.27	0.083	(0.482)	0.074	0.008
71	5.92	0.27	0.083	(0.480)	0.074	0.008
72	6.00	0.27	0.083	(0.478)	0.074	0.008
73	6.08	0.30	0.093	(0.476)	0.084	0.009
74	6.17	0.30	0.093	(0.474)	0.084	0.009
75	6.25	0.30	0.093	(0.471)	0.084	0.009
76	6.33	0.30	0.093	(0.469)	0.084	0.009
77	6.42	0.30	0.093	(0.467)	0.084	0.009
78	6.50	0.30	0.093	(0.465)	0.084	0.009
79	6.58	0.33	0.103	(0.463)	0.093	0.010
80	6.67	0.33	0.103	(0.461)	0.093	0.010
81	6.75	0.33	0.103	(0.459)	0.093	0.010
82	6.83	0.33	0.103	(0.457)	0.093	0.010
83	6.92	0.33	0.103	(0.455)	0.093	0.010
84	7.00	0.33	0.103	(0.453)	0.093	0.010
85	7.08	0.33	0.103	(0.451)	0.093	0.010
86	7.17	0.33	0.103	(0.449)	0.093	0.010
87	7.25	0.33	0.103	(0.447)	0.093	0.010
88	7.33	0.37	0.113	(0.445)	0.102	0.011
89	7.42	0.37	0.113	(0.442)	0.102	0.011
90	7.50	0.37	0.113	(0.440)	0.102	0.011
91	7.58	0.40	0.124	(0.438)	0.111	0.012
92	7.67	0.40	0.124	(0.436)	0.111	0.012
93	7.75	0.40	0.124	(0.434)	0.111	0.012
94	7.83	0.43	0.134	(0.432)	0.121	0.013

95	7.92	0.43	0.134	(0.430)	0.121	0.013
96	8.00	0.43	0.134	(0.428)	0.121	0.013
97	8.08	0.50	0.155	(0.426)	0.139	0.015
98	8.17	0.50	0.155	(0.424)	0.139	0.015
99	8.25	0.50	0.155	(0.422)	0.139	0.015
100	8.33	0.50	0.155	(0.420)	0.139	0.015
101	8.42	0.50	0.155	(0.419)	0.139	0.015
102	8.50	0.50	0.155	(0.417)	0.139	0.015
103	8.58	0.53	0.165	(0.415)	0.149	0.017
104	8.67	0.53	0.165	(0.413)	0.149	0.017
105	8.75	0.53	0.165	(0.411)	0.149	0.017
106	8.83	0.57	0.175	(0.409)	0.158	0.018
107	8.92	0.57	0.175	(0.407)	0.158	0.018
108	9.00	0.57	0.175	(0.405)	0.158	0.018
109	9.08	0.63	0.196	(0.403)	0.176	0.020
110	9.17	0.63	0.196	(0.401)	0.176	0.020
111	9.25	0.63	0.196	(0.399)	0.176	0.020
112	9.33	0.67	0.206	(0.397)	0.186	0.021
113	9.42	0.67	0.206	(0.395)	0.186	0.021
114	9.50	0.67	0.206	(0.393)	0.186	0.021
115	9.58	0.70	0.217	(0.392)	0.195	0.022
116	9.67	0.70	0.217	(0.390)	0.195	0.022
117	9.75	0.70	0.217	(0.388)	0.195	0.022
118	9.83	0.73	0.227	(0.386)	0.204	0.023
119	9.92	0.73	0.227	(0.384)	0.204	0.023
120	10.00	0.73	0.227	(0.382)	0.204	0.023
121	10.08	0.50	0.155	(0.380)	0.139	0.015
122	10.17	0.50	0.155	(0.379)	0.139	0.015
123	10.25	0.50	0.155	(0.377)	0.139	0.015
124	10.33	0.50	0.155	(0.375)	0.139	0.015
125	10.42	0.50	0.155	(0.373)	0.139	0.015
126	10.50	0.50	0.155	(0.371)	0.139	0.015
127	10.58	0.67	0.206	(0.369)	0.186	0.021
128	10.67	0.67	0.206	(0.368)	0.186	0.021
129	10.75	0.67	0.206	(0.366)	0.186	0.021
130	10.83	0.67	0.206	(0.364)	0.186	0.021
131	10.92	0.67	0.206	(0.362)	0.186	0.021
132	11.00	0.67	0.206	(0.360)	0.186	0.021
133	11.08	0.63	0.196	(0.359)	0.176	0.020
134	11.17	0.63	0.196	(0.357)	0.176	0.020
135	11.25	0.63	0.196	(0.355)	0.176	0.020
136	11.33	0.63	0.196	(0.353)	0.176	0.020
137	11.42	0.63	0.196	(0.352)	0.176	0.020
138	11.50	0.63	0.196	(0.350)	0.176	0.020
139	11.58	0.57	0.175	(0.348)	0.158	0.018
140	11.67	0.57	0.175	(0.346)	0.158	0.018
141	11.75	0.57	0.175	(0.345)	0.158	0.018
142	11.83	0.60	0.186	(0.343)	0.167	0.019
143	11.92	0.60	0.186	(0.341)	0.167	0.019
144	12.00	0.60	0.186	(0.340)	0.167	0.019

145	12.08	0.83	0.258	(0.338)	0.232	0.026
146	12.17	0.83	0.258	(0.336)	0.232	0.026
147	12.25	0.83	0.258	(0.335)	0.232	0.026
148	12.33	0.87	0.268	(0.333)	0.241	0.027
149	12.42	0.87	0.268	(0.331)	0.241	0.027
150	12.50	0.87	0.268	(0.330)	0.241	0.027
151	12.58	0.93	0.289	(0.328)	0.260	0.029
152	12.67	0.93	0.289	(0.326)	0.260	0.029
153	12.75	0.93	0.289	(0.325)	0.260	0.029
154	12.83	0.97	0.299	(0.323)	0.269	0.030
155	12.92	0.97	0.299	(0.321)	0.269	0.030
156	13.00	0.97	0.299	(0.320)	0.269	0.030
157	13.08	1.13	0.351	(0.318)	0.316	0.035
158	13.17	1.13	0.351	(0.316)	0.316	0.035
159	13.25	1.13	0.351	0.315 (0.316)		0.036
160	13.33	1.13	0.351	0.313 (0.316)		0.038
161	13.42	1.13	0.351	0.312 (0.316)		0.039
162	13.50	1.13	0.351	0.310 (0.316)		0.041
163	13.58	0.77	0.237	(0.308)	0.214	0.024
164	13.67	0.77	0.237	(0.307)	0.214	0.024
165	13.75	0.77	0.237	(0.305)	0.214	0.024
166	13.83	0.77	0.237	(0.304)	0.214	0.024
167	13.92	0.77	0.237	(0.302)	0.214	0.024
168	14.00	0.77	0.237	(0.301)	0.214	0.024
169	14.08	0.90	0.279	(0.299)	0.251	0.028
170	14.17	0.90	0.279	(0.298)	0.251	0.028
171	14.25	0.90	0.279	(0.296)	0.251	0.028
172	14.33	0.87	0.268	(0.295)	0.241	0.027
173	14.42	0.87	0.268	(0.293)	0.241	0.027
174	14.50	0.87	0.268	(0.292)	0.241	0.027
175	14.58	0.87	0.268	(0.290)	0.241	0.027
176	14.67	0.87	0.268	(0.289)	0.241	0.027
177	14.75	0.87	0.268	(0.287)	0.241	0.027
178	14.83	0.83	0.258	(0.286)	0.232	0.026
179	14.92	0.83	0.258	(0.284)	0.232	0.026
180	15.00	0.83	0.258	(0.283)	0.232	0.026
181	15.08	0.80	0.248	(0.281)	0.223	0.025
182	15.17	0.80	0.248	(0.280)	0.223	0.025
183	15.25	0.80	0.248	(0.278)	0.223	0.025
184	15.33	0.77	0.237	(0.277)	0.214	0.024
185	15.42	0.77	0.237	(0.276)	0.214	0.024
186	15.50	0.77	0.237	(0.274)	0.214	0.024
187	15.58	0.63	0.196	(0.273)	0.176	0.020
188	15.67	0.63	0.196	(0.271)	0.176	0.020
189	15.75	0.63	0.196	(0.270)	0.176	0.020
190	15.83	0.63	0.196	(0.269)	0.176	0.020
191	15.92	0.63	0.196	(0.267)	0.176	0.020
192	16.00	0.63	0.196	(0.266)	0.176	0.020
193	16.08	0.13	0.041	(0.264)	0.037	0.004
194	16.17	0.13	0.041	(0.263)	0.037	0.004

195	16.25	0.13	0.041	(0.262)	0.037	0.004
196	16.33	0.13	0.041	(0.260)	0.037	0.004
197	16.42	0.13	0.041	(0.259)	0.037	0.004
198	16.50	0.13	0.041	(0.258)	0.037	0.004
199	16.58	0.10	0.031	(0.256)	0.028	0.003
200	16.67	0.10	0.031	(0.255)	0.028	0.003
201	16.75	0.10	0.031	(0.254)	0.028	0.003
202	16.83	0.10	0.031	(0.253)	0.028	0.003
203	16.92	0.10	0.031	(0.251)	0.028	0.003
204	17.00	0.10	0.031	(0.250)	0.028	0.003
205	17.08	0.17	0.052	(0.249)	0.046	0.005
206	17.17	0.17	0.052	(0.248)	0.046	0.005
207	17.25	0.17	0.052	(0.246)	0.046	0.005
208	17.33	0.17	0.052	(0.245)	0.046	0.005
209	17.42	0.17	0.052	(0.244)	0.046	0.005
210	17.50	0.17	0.052	(0.243)	0.046	0.005
211	17.58	0.17	0.052	(0.241)	0.046	0.005
212	17.67	0.17	0.052	(0.240)	0.046	0.005
213	17.75	0.17	0.052	(0.239)	0.046	0.005
214	17.83	0.13	0.041	(0.238)	0.037	0.004
215	17.92	0.13	0.041	(0.237)	0.037	0.004
216	18.00	0.13	0.041	(0.235)	0.037	0.004
217	18.08	0.13	0.041	(0.234)	0.037	0.004
218	18.17	0.13	0.041	(0.233)	0.037	0.004
219	18.25	0.13	0.041	(0.232)	0.037	0.004
220	18.33	0.13	0.041	(0.231)	0.037	0.004
221	18.42	0.13	0.041	(0.230)	0.037	0.004
222	18.50	0.13	0.041	(0.229)	0.037	0.004
223	18.58	0.10	0.031	(0.228)	0.028	0.003
224	18.67	0.10	0.031	(0.226)	0.028	0.003
225	18.75	0.10	0.031	(0.225)	0.028	0.003
226	18.83	0.07	0.021	(0.224)	0.019	0.002
227	18.92	0.07	0.021	(0.223)	0.019	0.002
228	19.00	0.07	0.021	(0.222)	0.019	0.002
229	19.08	0.10	0.031	(0.221)	0.028	0.003
230	19.17	0.10	0.031	(0.220)	0.028	0.003
231	19.25	0.10	0.031	(0.219)	0.028	0.003
232	19.33	0.13	0.041	(0.218)	0.037	0.004
233	19.42	0.13	0.041	(0.217)	0.037	0.004
234	19.50	0.13	0.041	(0.216)	0.037	0.004
235	19.58	0.10	0.031	(0.215)	0.028	0.003
236	19.67	0.10	0.031	(0.214)	0.028	0.003
237	19.75	0.10	0.031	(0.213)	0.028	0.003
238	19.83	0.07	0.021	(0.212)	0.019	0.002
239	19.92	0.07	0.021	(0.211)	0.019	0.002
240	20.00	0.07	0.021	(0.210)	0.019	0.002
241	20.08	0.10	0.031	(0.209)	0.028	0.003
242	20.17	0.10	0.031	(0.208)	0.028	0.003
243	20.25	0.10	0.031	(0.207)	0.028	0.003
244	20.33	0.10	0.031	(0.207)	0.028	0.003

Total rainfall = 2.58(In)
 Flood volume = 9002.2 Cubic Feet
 Total soil loss = 80643.7 Cubic Feet

 Peak flow rate of this hydrograph = 0.379(CFS)

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

 Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0002	0.02	Q				
0+15	0.0003	0.02	Q				
0+20	0.0004	0.02	Q				
0+25	0.0006	0.03	Q				
0+30	0.0008	0.03	Q				
0+35	0.0010	0.03	Q				
0+40	0.0013	0.03	Q				
0+45	0.0015	0.03	Q				
0+50	0.0017	0.03	Q				
0+55	0.0020	0.04	Q				
1+ 0	0.0022	0.04	Q				
1+ 5	0.0025	0.04	Q				
1+10	0.0027	0.03	Q				
1+15	0.0029	0.03	Q				
1+20	0.0031	0.03	Q				
1+25	0.0033	0.03	Q				
1+30	0.0035	0.03	Q				
1+35	0.0037	0.03	Q				
1+40	0.0039	0.03	Q				
1+45	0.0041	0.03	Q				
1+50	0.0044	0.03	Q				
1+55	0.0046	0.04	Q				
2+ 0	0.0049	0.04	Q				
2+ 5	0.0052	0.04	QV				
2+10	0.0054	0.04	QV				
2+15	0.0057	0.04	QV				
2+20	0.0060	0.04	QV				
2+25	0.0063	0.04	QV				
2+30	0.0065	0.04	QV				
2+35	0.0068	0.04	QV				
2+40	0.0072	0.05	QV				
2+45	0.0075	0.05	QV				
2+50	0.0078	0.05	QV				
2+55	0.0082	0.05	QV				

3+ 0	0.0085	0.05	QV
3+ 5	0.0089	0.05	QV
3+10	0.0092	0.05	QV
3+15	0.0096	0.05	QV
3+20	0.0099	0.05	QV
3+25	0.0102	0.05	QV
3+30	0.0106	0.05	Q V
3+35	0.0109	0.05	Q V
3+40	0.0113	0.05	Q V
3+45	0.0116	0.05	Q V
3+50	0.0120	0.05	Q V
3+55	0.0124	0.06	Q V
4+ 0	0.0128	0.06	Q V
4+ 5	0.0132	0.06	Q V
4+10	0.0136	0.06	Q V
4+15	0.0140	0.06	Q V
4+20	0.0145	0.06	Q V
4+25	0.0149	0.07	Q V
4+30	0.0154	0.07	Q V
4+35	0.0159	0.07	Q V
4+40	0.0164	0.07	Q V
4+45	0.0168	0.07	Q V
4+50	0.0174	0.07	Q V
4+55	0.0179	0.08	Q V
5+ 0	0.0184	0.08	Q V
5+ 5	0.0189	0.07	Q V
5+10	0.0194	0.06	Q V
5+15	0.0198	0.06	Q V
5+20	0.0202	0.06	Q V
5+25	0.0207	0.07	Q V
5+30	0.0212	0.07	Q V
5+35	0.0217	0.07	Q V
5+40	0.0222	0.08	Q V
5+45	0.0228	0.08	Q V
5+50	0.0233	0.08	Q V
5+55	0.0238	0.08	Q V
6+ 0	0.0244	0.08	Q V
6+ 5	0.0250	0.08	Q V
6+10	0.0256	0.09	Q V
6+15	0.0262	0.09	Q V
6+20	0.0268	0.09	Q V
6+25	0.0274	0.09	Q V
6+30	0.0280	0.09	Q V
6+35	0.0287	0.09	Q V
6+40	0.0294	0.10	Q V
6+45	0.0300	0.10	Q V
6+50	0.0307	0.10	Q V
6+55	0.0314	0.10	Q V
7+ 0	0.0321	0.10	Q V
7+ 5	0.0328	0.10	Q V

7+10	0.0335	0.10	Q	V				
7+15	0.0341	0.10	Q	V				
7+20	0.0349	0.10	Q	V				
7+25	0.0356	0.11	Q	V				
7+30	0.0364	0.11	Q	V				
7+35	0.0371	0.11	Q	V				
7+40	0.0379	0.12	Q	V				
7+45	0.0388	0.12	Q	V				
7+50	0.0396	0.12	Q	V				
7+55	0.0405	0.13	Q	V				
8+ 0	0.0414	0.13	Q	V				
8+ 5	0.0423	0.14	Q	V				
8+10	0.0433	0.15	Q	V				
8+15	0.0443	0.15	Q	V				
8+20	0.0454	0.15	Q	V				
8+25	0.0464	0.15	Q	V				
8+30	0.0474	0.15	Q	V				
8+35	0.0485	0.15	Q	V				
8+40	0.0496	0.16	Q	V				
8+45	0.0506	0.16	Q	V				
8+50	0.0518	0.16	Q	V				
8+55	0.0529	0.17	Q	V				
9+ 0	0.0541	0.17	Q	V				
9+ 5	0.0553	0.18	Q	V				
9+10	0.0566	0.19	Q	V				
9+15	0.0579	0.19	Q	V				
9+20	0.0592	0.19	Q	V				
9+25	0.0606	0.20	Q	V				
9+30	0.0619	0.20	Q	V				
9+35	0.0633	0.20	Q	V				
9+40	0.0647	0.21	Q	V				
9+45	0.0662	0.21	Q	V				
9+50	0.0676	0.21	Q	V				
9+55	0.0691	0.22	Q	V				
10+ 0	0.0706	0.22	Q	V				
10+ 5	0.0720	0.19	Q	V				
10+10	0.0731	0.16	Q	V				
10+15	0.0742	0.15	Q	V				
10+20	0.0752	0.15	Q	V				
10+25	0.0762	0.15	Q	V				
10+30	0.0773	0.15	Q	V				
10+35	0.0784	0.17	Q	V				
10+40	0.0797	0.19	Q	V				
10+45	0.0811	0.20	Q	V				
10+50	0.0824	0.20	Q	V				
10+55	0.0838	0.20	Q	V				
11+ 0	0.0852	0.20	Q	V				
11+ 5	0.0865	0.20	Q	V				
11+10	0.0878	0.19	Q	V				
11+15	0.0891	0.19	Q	V				

11+20	0.0905	0.19	Q	V			
11+25	0.0918	0.19	Q	V			
11+30	0.0931	0.19	Q	V			
11+35	0.0943	0.18	Q	V			
11+40	0.0955	0.17	Q	V			
11+45	0.0967	0.17	Q	V			
11+50	0.0979	0.17	Q	V			
11+55	0.0991	0.18	Q	V			
12+ 0	0.1003	0.18	Q	V			
12+ 5	0.1017	0.20	Q	V			
12+10	0.1034	0.24	Q	V			
12+15	0.1050	0.24	Q	V			
12+20	0.1068	0.25	Q	V			
12+25	0.1085	0.26	Q	V			
12+30	0.1103	0.26	Q	V			
12+35	0.1121	0.27	Q	V			
12+40	0.1140	0.28	Q	V			
12+45	0.1160	0.28	Q	V			
12+50	0.1179	0.28	Q	V			
12+55	0.1199	0.29	Q	V			
13+ 0	0.1219	0.29	Q	V			
13+ 5	0.1240	0.31	Q	V			
13+10	0.1262	0.33	Q	V			
13+15	0.1286	0.34	Q	V			
13+20	0.1310	0.35	Q	V			
13+25	0.1335	0.36	Q	V			
13+30	0.1361	0.38	Q	V			
13+35	0.1384	0.33	Q	V			
13+40	0.1401	0.26	Q	V			
13+45	0.1418	0.24	Q	V			
13+50	0.1434	0.23	Q	V			
13+55	0.1450	0.23	Q	V			
14+ 0	0.1466	0.23	Q	V			
14+ 5	0.1482	0.24	Q	V			
14+10	0.1500	0.26	Q	V			
14+15	0.1519	0.27	Q	V			
14+20	0.1537	0.26	Q	V			
14+25	0.1555	0.26	Q	V			
14+30	0.1573	0.26	Q	V			
14+35	0.1591	0.26	Q	V			
14+40	0.1608	0.26	Q	V			
14+45	0.1626	0.26	Q	V			
14+50	0.1644	0.26	Q	V			
14+55	0.1661	0.25	Q	V			
15+ 0	0.1678	0.25	Q	V			
15+ 5	0.1695	0.25	Q	V			
15+10	0.1712	0.24	Q	V			
15+15	0.1728	0.24	Q	V			
15+20	0.1745	0.24	Q	V			
15+25	0.1761	0.23	Q	V			

15+30	0.1776	0.23	Q	V
15+35	0.1791	0.21	Q	V
15+40	0.1805	0.20	Q	V
15+45	0.1818	0.19	Q	V
15+50	0.1831	0.19	Q	V
15+55	0.1844	0.19	Q	V
16+ 0	0.1857	0.19	Q	V
16+ 5	0.1866	0.14	Q	V
16+10	0.1871	0.07	Q	V
16+15	0.1874	0.05	Q	V
16+20	0.1878	0.04	Q	V
16+25	0.1880	0.04	Q	V
16+30	0.1883	0.04	Q	V
16+35	0.1886	0.04	Q	V
16+40	0.1888	0.03	Q	V
16+45	0.1890	0.03	Q	V
16+50	0.1892	0.03	Q	V
16+55	0.1894	0.03	Q	V
17+ 0	0.1896	0.03	Q	V
17+ 5	0.1899	0.04	Q	V
17+10	0.1902	0.05	Q	V
17+15	0.1905	0.05	Q	V
17+20	0.1908	0.05	Q	V
17+25	0.1912	0.05	Q	V
17+30	0.1915	0.05	Q	V
17+35	0.1919	0.05	Q	V
17+40	0.1922	0.05	Q	V
17+45	0.1926	0.05	Q	V
17+50	0.1929	0.05	Q	V
17+55	0.1932	0.04	Q	V
18+ 0	0.1934	0.04	Q	V
18+ 5	0.1937	0.04	Q	V
18+10	0.1940	0.04	Q	V
18+15	0.1943	0.04	Q	V
18+20	0.1945	0.04	Q	V
18+25	0.1948	0.04	Q	V
18+30	0.1951	0.04	Q	V
18+35	0.1953	0.04	Q	V
18+40	0.1956	0.03	Q	V
18+45	0.1958	0.03	Q	V
18+50	0.1960	0.03	Q	V
18+55	0.1961	0.02	Q	V
19+ 0	0.1962	0.02	Q	V
19+ 5	0.1964	0.02	Q	V
19+10	0.1966	0.03	Q	V
19+15	0.1968	0.03	Q	V
19+20	0.1970	0.03	Q	V
19+25	0.1973	0.04	Q	V
19+30	0.1976	0.04	Q	V
19+35	0.1978	0.04	Q	V

19+40	0.1980	0.03	Q				V
19+45	0.1982	0.03	Q				V
19+50	0.1984	0.03	Q				V
19+55	0.1986	0.02	Q				V
20+ 0	0.1987	0.02	Q				V
20+ 5	0.1989	0.02	Q				V
20+10	0.1991	0.03	Q				V
20+15	0.1993	0.03	Q				V
20+20	0.1995	0.03	Q				V
20+25	0.1997	0.03	Q				V
20+30	0.1999	0.03	Q				V
20+35	0.2001	0.03	Q				V
20+40	0.2003	0.03	Q				V
20+45	0.2005	0.03	Q				V
20+50	0.2007	0.03	Q				V
20+55	0.2008	0.02	Q				V
21+ 0	0.2010	0.02	Q				V
21+ 5	0.2011	0.02	Q				V
21+10	0.2013	0.03	Q				V
21+15	0.2015	0.03	Q				V
21+20	0.2017	0.03	Q				V
21+25	0.2019	0.02	Q				V
21+30	0.2020	0.02	Q				V
21+35	0.2022	0.02	Q				V
21+40	0.2024	0.03	Q				V
21+45	0.2026	0.03	Q				V
21+50	0.2027	0.03	Q				V
21+55	0.2029	0.02	Q				V
22+ 0	0.2030	0.02	Q				V
22+ 5	0.2032	0.02	Q				V
22+10	0.2034	0.03	Q				V
22+15	0.2036	0.03	Q				V
22+20	0.2038	0.03	Q				V
22+25	0.2039	0.02	Q				V
22+30	0.2041	0.02	Q				V
22+35	0.2042	0.02	Q				V
22+40	0.2043	0.02	Q				V
22+45	0.2045	0.02	Q				V
22+50	0.2046	0.02	Q				V
22+55	0.2048	0.02	Q				V
23+ 0	0.2049	0.02	Q				V
23+ 5	0.2050	0.02	Q				V
23+10	0.2052	0.02	Q				V
23+15	0.2053	0.02	Q				V
23+20	0.2054	0.02	Q				V
23+25	0.2056	0.02	Q				V
23+30	0.2057	0.02	Q				V
23+35	0.2059	0.02	Q				V
23+40	0.2060	0.02	Q				V
23+45	0.2061	0.02	Q				V

23+50	0.2063	0.02	Q				V
23+55	0.2064	0.02	Q				V
24+ 0	0.2065	0.02	Q				V
24+ 5	0.2066	0.01	Q				V
24+10	0.2066	0.00	Q				V
24+15	0.2067	0.00	Q				V
24+20	0.2067	0.00	Q				V

Existing 10-Year

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX110.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 10YR-1HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	0.48	4.60

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.25	11.97

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.797(In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 0.797(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	85.0	0.187	0.000	0.187	1.000	0.187
Sum (F) =						0.187

Area averaged mean soil loss (F) (In/Hr) = 0.187
 Minimum soil loss rate ((In/Hr)) = 0.094
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.900

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

0+50	0.3173	13.55				VQ			
0+55	0.4105	13.54				Q		V	
1+ 0	0.4548	6.44		Q	Q			V	
1+ 5	0.4761	3.09						V	
1+10	0.4841	1.15	Q					V	
1+15	0.4860	0.28	Q					V	
1+20	0.4865	0.08	Q					V	



Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX310.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 10YR-3HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
9.57	0.80	7.66

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.95	18.67

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.273(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.273(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	85.0	0.187	0.000	0.187	1.000	0.187
Sum (F) =						0.187

Area averaged mean soil loss (F) (In/Hr) = 0.187
 Minimum soil loss rate ((In/Hr)) = 0.094
 (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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

Total soil loss = 19044.7 Cubic Feet

 Peak flow rate of this hydrograph = 9.015(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	2.5	5.0	7.5	10.0
0+ 5	0.0005	0.07	Q				
0+10	0.0016	0.16	Q				
0+15	0.0027	0.17	Q				
0+20	0.0044	0.25	VQ				
0+25	0.0070	0.37	VQ				
0+30	0.0107	0.55	V Q				
0+35	0.0149	0.60	VQ				
0+40	0.0191	0.61	VQ				
0+45	0.0246	0.79	V Q				
0+50	0.0292	0.67	Q				
0+55	0.0328	0.53	Q				
1+ 0	0.0374	0.67	Q				
1+ 5	0.0444	1.01	VQ				
1+10	0.0534	1.31	V Q				
1+15	0.0629	1.39	VQ				
1+20	0.0720	1.32	VQ				
1+25	0.0824	1.52	VQ				
1+30	0.0959	1.95	VQ				
1+35	0.1092	1.93	Q				
1+40	0.1225	1.94	QV				
1+45	0.1394	2.45	Q				
1+50	0.1585	2.78	VQ				
1+55	0.1766	2.64	Q V				
2+ 0	0.1944	2.57	Q	V			
2+ 5	0.2128	2.68	Q	V			
2+10	0.2357	3.32	Q	V			
2+15	0.2668	4.51		Q			
2+20	0.2973	4.44		Q	V		
2+25	0.3343	5.38			Q V		
2+30	0.3877	7.75			V	Q	
2+35	0.4498	9.02				V	Q
2+40	0.5093	8.64				QV	V
2+45	0.5458	5.31			Q		V
2+50	0.5615	2.27		Q			V
2+55	0.5713	1.42		Q			V
3+ 0	0.5765	0.76	Q				V
3+ 5	0.5779	0.20	Q				V

3+10	0.5784	0.07	Q				V
3+15	0.5786	0.03	Q				V
3+20	0.5786	0.00	Q				V

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX610.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 10YR-6HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.11	10.63

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	2.70	25.85

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.764(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.764(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	85.0	0.187	0.000	0.187	1.000	0.187
Sum (F) =						0.187

Area averaged mean soil loss (F) (In/Hr) = 0.187
 Minimum soil loss rate ((In/Hr)) = 0.094
 (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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.106	(0.187)	0.095	0.011
2	0.17	0.60	0.127	(0.187)	0.114	0.013
3	0.25	0.60	0.127	(0.187)	0.114	0.013
4	0.33	0.60	0.127	(0.187)	0.114	0.013
5	0.42	0.60	0.127	(0.187)	0.114	0.013
6	0.50	0.70	0.148	(0.187)	0.133	0.015
7	0.58	0.70	0.148	(0.187)	0.133	0.015
8	0.67	0.70	0.148	(0.187)	0.133	0.015
9	0.75	0.70	0.148	(0.187)	0.133	0.015
10	0.83	0.70	0.148	(0.187)	0.133	0.015
11	0.92	0.70	0.148	(0.187)	0.133	0.015
12	1.00	0.80	0.169	(0.187)	0.152	0.017
13	1.08	0.80	0.169	(0.187)	0.152	0.017
14	1.17	0.80	0.169	(0.187)	0.152	0.017
15	1.25	0.80	0.169	(0.187)	0.152	0.017
16	1.33	0.80	0.169	(0.187)	0.152	0.017
17	1.42	0.80	0.169	(0.187)	0.152	0.017
18	1.50	0.80	0.169	(0.187)	0.152	0.017
19	1.58	0.80	0.169	(0.187)	0.152	0.017
20	1.67	0.80	0.169	(0.187)	0.152	0.017
21	1.75	0.80	0.169	(0.187)	0.152	0.017
22	1.83	0.80	0.169	(0.187)	0.152	0.017
23	1.92	0.80	0.169	(0.187)	0.152	0.017
24	2.00	0.90	0.191	(0.187)	0.171	0.019
25	2.08	0.80	0.169	(0.187)	0.152	0.017
26	2.17	0.90	0.191	(0.187)	0.171	0.019
27	2.25	0.90	0.191	(0.187)	0.171	0.019
28	2.33	0.90	0.191	(0.187)	0.171	0.019
29	2.42	0.90	0.191	(0.187)	0.171	0.019
30	2.50	0.90	0.191	(0.187)	0.171	0.019
31	2.58	0.90	0.191	(0.187)	0.171	0.019
32	2.67	0.90	0.191	(0.187)	0.171	0.019
33	2.75	1.00	0.212	0.187	(0.191)	0.025
34	2.83	1.00	0.212	0.187	(0.191)	0.025
35	2.92	1.00	0.212	0.187	(0.191)	0.025
36	3.00	1.00	0.212	0.187	(0.191)	0.025
37	3.08	1.00	0.212	0.187	(0.191)	0.025
38	3.17	1.10	0.233	0.187	(0.210)	0.046
39	3.25	1.10	0.233	0.187	(0.210)	0.046
40	3.33	1.10	0.233	0.187	(0.210)	0.046
41	3.42	1.20	0.254	0.187	(0.229)	0.067
42	3.50	1.30	0.275	0.187	(0.248)	0.088
43	3.58	1.40	0.296	0.187	(0.267)	0.109
44	3.67	1.40	0.296	0.187	(0.267)	0.109

0+10	0.0009	0.09	Q
0+15	0.0017	0.11	Q
0+20	0.0025	0.12	Q
0+25	0.0033	0.12	Q
0+30	0.0042	0.13	Q
0+35	0.0052	0.14	Q
0+40	0.0061	0.14	Q
0+45	0.0071	0.14	Q
0+50	0.0081	0.14	Q
0+55	0.0091	0.14	Q
1+ 0	0.0101	0.15	Q
1+ 5	0.0112	0.16	Q
1+10	0.0123	0.16	Q
1+15	0.0135	0.16	Q
1+20	0.0146	0.16	Q
1+25	0.0157	0.16	QV
1+30	0.0168	0.16	QV
1+35	0.0180	0.16	QV
1+40	0.0191	0.16	QV
1+45	0.0202	0.16	QV
1+50	0.0213	0.16	QV
1+55	0.0225	0.16	QV
2+ 0	0.0236	0.17	QV
2+ 5	0.0248	0.17	QV
2+10	0.0260	0.17	QV
2+15	0.0273	0.18	QV
2+20	0.0285	0.18	QV
2+25	0.0298	0.18	QV
2+30	0.0311	0.18	QV
2+35	0.0323	0.18	Q V
2+40	0.0336	0.18	Q V
2+45	0.0350	0.20	Q V
2+50	0.0366	0.23	Q V
2+55	0.0382	0.23	Q V
3+ 0	0.0398	0.24	Q V
3+ 5	0.0415	0.24	Q V
3+10	0.0436	0.31	QV
3+15	0.0464	0.41	QV
3+20	0.0494	0.43	Q V
3+25	0.0529	0.51	QV
3+30	0.0576	0.68	QV
3+35	0.0636	0.87	QV
3+40	0.0705	1.00	QV
3+45	0.0781	1.11	Q
3+50	0.0865	1.22	QV
3+55	0.0956	1.32	QV
4+ 0	0.1054	1.42	QV
4+ 5	0.1159	1.52	QV
4+10	0.1276	1.70	Q V
4+15	0.1407	1.90	QV

4+20	0.1551	2.09		QV				
4+25	0.1709	2.30		QV				
4+30	0.1876	2.43		Q V				
4+35	0.2051	2.54		Q	V			
4+40	0.2239	2.72		Q	V			
4+45	0.2440	2.92		Q	V			
4+50	0.2649	3.04		Q	V			
4+55	0.2866	3.15		Q	V			
5+ 0	0.3096	3.34		Q	V			
5+ 5	0.3360	3.83		Q	V			
5+10	0.3683	4.70		Q	V			
5+15	0.4063	5.51		Q	V			
5+20	0.4488	6.17		Q	V			
5+25	0.4968	6.96		Q	V			
5+30	0.5534	8.22		Q	V			
5+35	0.5981	6.49		Q	V			
5+40	0.6158	2.58		Q	V			V
5+45	0.6227	1.00	Q					V
5+50	0.6260	0.48	Q					V
5+55	0.6270	0.15	Q					V
6+ 0	0.6275	0.06	Q					V
6+ 5	0.6277	0.03	Q					V
6+10	0.6278	0.01	Q					V
6+15	0.6278	0.00	Q					V
6+20	0.6278	0.00	Q					V

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX2410.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 10YR-24HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
9.57	1.90	18.19

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	4.80	45.96

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 3.093(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 3.093(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

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AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	85.0	0.187	0.000	0.187	1.000	0.187
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Area averaged mean soil loss (F) (In/Hr) = 0.187
 Minimum soil loss rate ((In/Hr)) = 0.094
 (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)
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2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.025	(0.331)	0.022	0.002
2	0.17	0.07	0.025	(0.330)	0.022	0.002
3	0.25	0.07	0.025	(0.329)	0.022	0.002
4	0.33	0.10	0.037	(0.328)	0.033	0.004
5	0.42	0.10	0.037	(0.326)	0.033	0.004
6	0.50	0.10	0.037	(0.325)	0.033	0.004
7	0.58	0.10	0.037	(0.324)	0.033	0.004
8	0.67	0.10	0.037	(0.323)	0.033	0.004
9	0.75	0.10	0.037	(0.321)	0.033	0.004
10	0.83	0.13	0.049	(0.320)	0.045	0.005
11	0.92	0.13	0.049	(0.319)	0.045	0.005
12	1.00	0.13	0.049	(0.318)	0.045	0.005
13	1.08	0.10	0.037	(0.316)	0.033	0.004
14	1.17	0.10	0.037	(0.315)	0.033	0.004
15	1.25	0.10	0.037	(0.314)	0.033	0.004
16	1.33	0.10	0.037	(0.313)	0.033	0.004
17	1.42	0.10	0.037	(0.311)	0.033	0.004
18	1.50	0.10	0.037	(0.310)	0.033	0.004
19	1.58	0.10	0.037	(0.309)	0.033	0.004
20	1.67	0.10	0.037	(0.308)	0.033	0.004
21	1.75	0.10	0.037	(0.306)	0.033	0.004
22	1.83	0.13	0.049	(0.305)	0.045	0.005
23	1.92	0.13	0.049	(0.304)	0.045	0.005
24	2.00	0.13	0.049	(0.303)	0.045	0.005
25	2.08	0.13	0.049	(0.301)	0.045	0.005
26	2.17	0.13	0.049	(0.300)	0.045	0.005
27	2.25	0.13	0.049	(0.299)	0.045	0.005
28	2.33	0.13	0.049	(0.298)	0.045	0.005
29	2.42	0.13	0.049	(0.297)	0.045	0.005
30	2.50	0.13	0.049	(0.295)	0.045	0.005
31	2.58	0.17	0.062	(0.294)	0.056	0.006
32	2.67	0.17	0.062	(0.293)	0.056	0.006
33	2.75	0.17	0.062	(0.292)	0.056	0.006
34	2.83	0.17	0.062	(0.291)	0.056	0.006
35	2.92	0.17	0.062	(0.289)	0.056	0.006
36	3.00	0.17	0.062	(0.288)	0.056	0.006
37	3.08	0.17	0.062	(0.287)	0.056	0.006
38	3.17	0.17	0.062	(0.286)	0.056	0.006
39	3.25	0.17	0.062	(0.285)	0.056	0.006
40	3.33	0.17	0.062	(0.283)	0.056	0.006
41	3.42	0.17	0.062	(0.282)	0.056	0.006
42	3.50	0.17	0.062	(0.281)	0.056	0.006
43	3.58	0.17	0.062	(0.280)	0.056	0.006
44	3.67	0.17	0.062	(0.279)	0.056	0.006

45	3.75	0.17	0.062	(0.277)	0.056	0.006
46	3.83	0.20	0.074	(0.276)	0.067	0.007
47	3.92	0.20	0.074	(0.275)	0.067	0.007
48	4.00	0.20	0.074	(0.274)	0.067	0.007
49	4.08	0.20	0.074	(0.273)	0.067	0.007
50	4.17	0.20	0.074	(0.272)	0.067	0.007
51	4.25	0.20	0.074	(0.270)	0.067	0.007
52	4.33	0.23	0.087	(0.269)	0.078	0.009
53	4.42	0.23	0.087	(0.268)	0.078	0.009
54	4.50	0.23	0.087	(0.267)	0.078	0.009
55	4.58	0.23	0.087	(0.266)	0.078	0.009
56	4.67	0.23	0.087	(0.265)	0.078	0.009
57	4.75	0.23	0.087	(0.264)	0.078	0.009
58	4.83	0.27	0.099	(0.262)	0.089	0.010
59	4.92	0.27	0.099	(0.261)	0.089	0.010
60	5.00	0.27	0.099	(0.260)	0.089	0.010
61	5.08	0.20	0.074	(0.259)	0.067	0.007
62	5.17	0.20	0.074	(0.258)	0.067	0.007
63	5.25	0.20	0.074	(0.257)	0.067	0.007
64	5.33	0.23	0.087	(0.256)	0.078	0.009
65	5.42	0.23	0.087	(0.255)	0.078	0.009
66	5.50	0.23	0.087	(0.253)	0.078	0.009
67	5.58	0.27	0.099	(0.252)	0.089	0.010
68	5.67	0.27	0.099	(0.251)	0.089	0.010
69	5.75	0.27	0.099	(0.250)	0.089	0.010
70	5.83	0.27	0.099	(0.249)	0.089	0.010
71	5.92	0.27	0.099	(0.248)	0.089	0.010
72	6.00	0.27	0.099	(0.247)	0.089	0.010
73	6.08	0.30	0.111	(0.246)	0.100	0.011
74	6.17	0.30	0.111	(0.245)	0.100	0.011
75	6.25	0.30	0.111	(0.244)	0.100	0.011
76	6.33	0.30	0.111	(0.242)	0.100	0.011
77	6.42	0.30	0.111	(0.241)	0.100	0.011
78	6.50	0.30	0.111	(0.240)	0.100	0.011
79	6.58	0.33	0.124	(0.239)	0.111	0.012
80	6.67	0.33	0.124	(0.238)	0.111	0.012
81	6.75	0.33	0.124	(0.237)	0.111	0.012
82	6.83	0.33	0.124	(0.236)	0.111	0.012
83	6.92	0.33	0.124	(0.235)	0.111	0.012
84	7.00	0.33	0.124	(0.234)	0.111	0.012
85	7.08	0.33	0.124	(0.233)	0.111	0.012
86	7.17	0.33	0.124	(0.232)	0.111	0.012
87	7.25	0.33	0.124	(0.231)	0.111	0.012
88	7.33	0.37	0.136	(0.230)	0.122	0.014
89	7.42	0.37	0.136	(0.229)	0.122	0.014
90	7.50	0.37	0.136	(0.228)	0.122	0.014
91	7.58	0.40	0.148	(0.226)	0.134	0.015
92	7.67	0.40	0.148	(0.225)	0.134	0.015
93	7.75	0.40	0.148	(0.224)	0.134	0.015
94	7.83	0.43	0.161	(0.223)	0.145	0.016

95	7.92	0.43	0.161	(0.222)	0.145	0.016
96	8.00	0.43	0.161	(0.221)	0.145	0.016
97	8.08	0.50	0.186	(0.220)	0.167	0.019
98	8.17	0.50	0.186	(0.219)	0.167	0.019
99	8.25	0.50	0.186	(0.218)	0.167	0.019
100	8.33	0.50	0.186	(0.217)	0.167	0.019
101	8.42	0.50	0.186	(0.216)	0.167	0.019
102	8.50	0.50	0.186	(0.215)	0.167	0.019
103	8.58	0.53	0.198	(0.214)	0.178	0.020
104	8.67	0.53	0.198	(0.213)	0.178	0.020
105	8.75	0.53	0.198	(0.212)	0.178	0.020
106	8.83	0.57	0.210	(0.211)	0.189	0.021
107	8.92	0.57	0.210	(0.210)	0.189	0.021
108	9.00	0.57	0.210	(0.209)	0.189	0.021
109	9.08	0.63	0.235	0.208	(0.212)	0.027
110	9.17	0.63	0.235	0.207	(0.212)	0.028
111	9.25	0.63	0.235	0.206	(0.212)	0.029
112	9.33	0.67	0.247	0.205	(0.223)	0.042
113	9.42	0.67	0.247	0.204	(0.223)	0.043
114	9.50	0.67	0.247	0.203	(0.223)	0.044
115	9.58	0.70	0.260	0.202	(0.234)	0.058
116	9.67	0.70	0.260	0.201	(0.234)	0.058
117	9.75	0.70	0.260	0.200	(0.234)	0.059
118	9.83	0.73	0.272	0.199	(0.245)	0.073
119	9.92	0.73	0.272	0.198	(0.245)	0.074
120	10.00	0.73	0.272	0.197	(0.245)	0.075
121	10.08	0.50	0.186	(0.197)	0.167	0.019
122	10.17	0.50	0.186	(0.196)	0.167	0.019
123	10.25	0.50	0.186	(0.195)	0.167	0.019
124	10.33	0.50	0.186	(0.194)	0.167	0.019
125	10.42	0.50	0.186	(0.193)	0.167	0.019
126	10.50	0.50	0.186	(0.192)	0.167	0.019
127	10.58	0.67	0.247	0.191	(0.223)	0.057
128	10.67	0.67	0.247	0.190	(0.223)	0.058
129	10.75	0.67	0.247	0.189	(0.223)	0.058
130	10.83	0.67	0.247	0.188	(0.223)	0.059
131	10.92	0.67	0.247	0.187	(0.223)	0.060
132	11.00	0.67	0.247	0.186	(0.223)	0.061
133	11.08	0.63	0.235	0.185	(0.212)	0.050
134	11.17	0.63	0.235	0.184	(0.212)	0.051
135	11.25	0.63	0.235	0.183	(0.212)	0.052
136	11.33	0.63	0.235	0.183	(0.212)	0.052
137	11.42	0.63	0.235	0.182	(0.212)	0.053
138	11.50	0.63	0.235	0.181	(0.212)	0.054
139	11.58	0.57	0.210	0.180	(0.189)	0.030
140	11.67	0.57	0.210	0.179	(0.189)	0.031
141	11.75	0.57	0.210	0.178	(0.189)	0.032
142	11.83	0.60	0.223	0.177	(0.200)	0.045
143	11.92	0.60	0.223	0.176	(0.200)	0.046
144	12.00	0.60	0.223	0.175	(0.200)	0.047

145	12.08	0.83	0.309	0.175	(0.278)	0.135
146	12.17	0.83	0.309	0.174	(0.278)	0.136
147	12.25	0.83	0.309	0.173	(0.278)	0.136
148	12.33	0.87	0.322	0.172	(0.290)	0.150
149	12.42	0.87	0.322	0.171	(0.290)	0.151
150	12.50	0.87	0.322	0.170	(0.290)	0.151
151	12.58	0.93	0.346	0.169	(0.312)	0.177
152	12.67	0.93	0.346	0.169	(0.312)	0.178
153	12.75	0.93	0.346	0.168	(0.312)	0.179
154	12.83	0.97	0.359	0.167	(0.323)	0.192
155	12.92	0.97	0.359	0.166	(0.323)	0.193
156	13.00	0.97	0.359	0.165	(0.323)	0.194
157	13.08	1.13	0.421	0.164	(0.379)	0.256
158	13.17	1.13	0.421	0.163	(0.379)	0.257
159	13.25	1.13	0.421	0.163	(0.379)	0.258
160	13.33	1.13	0.421	0.162	(0.379)	0.259
161	13.42	1.13	0.421	0.161	(0.379)	0.260
162	13.50	1.13	0.421	0.160	(0.379)	0.260
163	13.58	0.77	0.285	0.159	(0.256)	0.125
164	13.67	0.77	0.285	0.159	(0.256)	0.126
165	13.75	0.77	0.285	0.158	(0.256)	0.127
166	13.83	0.77	0.285	0.157	(0.256)	0.128
167	13.92	0.77	0.285	0.156	(0.256)	0.128
168	14.00	0.77	0.285	0.155	(0.256)	0.129
169	14.08	0.90	0.334	0.155	(0.301)	0.180
170	14.17	0.90	0.334	0.154	(0.301)	0.180
171	14.25	0.90	0.334	0.153	(0.301)	0.181
172	14.33	0.87	0.322	0.152	(0.290)	0.169
173	14.42	0.87	0.322	0.151	(0.290)	0.170
174	14.50	0.87	0.322	0.151	(0.290)	0.171
175	14.58	0.87	0.322	0.150	(0.290)	0.172
176	14.67	0.87	0.322	0.149	(0.290)	0.173
177	14.75	0.87	0.322	0.148	(0.290)	0.173
178	14.83	0.83	0.309	0.148	(0.278)	0.162
179	14.92	0.83	0.309	0.147	(0.278)	0.162
180	15.00	0.83	0.309	0.146	(0.278)	0.163
181	15.08	0.80	0.297	0.145	(0.267)	0.152
182	15.17	0.80	0.297	0.145	(0.267)	0.152
183	15.25	0.80	0.297	0.144	(0.267)	0.153
184	15.33	0.77	0.285	0.143	(0.256)	0.141
185	15.42	0.77	0.285	0.142	(0.256)	0.142
186	15.50	0.77	0.285	0.142	(0.256)	0.143
187	15.58	0.63	0.235	0.141	(0.212)	0.094
188	15.67	0.63	0.235	0.140	(0.212)	0.095
189	15.75	0.63	0.235	0.139	(0.212)	0.096
190	15.83	0.63	0.235	0.139	(0.212)	0.096
191	15.92	0.63	0.235	0.138	(0.212)	0.097
192	16.00	0.63	0.235	0.137	(0.212)	0.098
193	16.08	0.13	0.049	(0.137)	0.045	0.005
194	16.17	0.13	0.049	(0.136)	0.045	0.005

195	16.25	0.13	0.049	(0.135)	0.045	0.005
196	16.33	0.13	0.049	(0.135)	0.045	0.005
197	16.42	0.13	0.049	(0.134)	0.045	0.005
198	16.50	0.13	0.049	(0.133)	0.045	0.005
199	16.58	0.10	0.037	(0.132)	0.033	0.004
200	16.67	0.10	0.037	(0.132)	0.033	0.004
201	16.75	0.10	0.037	(0.131)	0.033	0.004
202	16.83	0.10	0.037	(0.130)	0.033	0.004
203	16.92	0.10	0.037	(0.130)	0.033	0.004
204	17.00	0.10	0.037	(0.129)	0.033	0.004
205	17.08	0.17	0.062	(0.129)	0.056	0.006
206	17.17	0.17	0.062	(0.128)	0.056	0.006
207	17.25	0.17	0.062	(0.127)	0.056	0.006
208	17.33	0.17	0.062	(0.127)	0.056	0.006
209	17.42	0.17	0.062	(0.126)	0.056	0.006
210	17.50	0.17	0.062	(0.125)	0.056	0.006
211	17.58	0.17	0.062	(0.125)	0.056	0.006
212	17.67	0.17	0.062	(0.124)	0.056	0.006
213	17.75	0.17	0.062	(0.123)	0.056	0.006
214	17.83	0.13	0.049	(0.123)	0.045	0.005
215	17.92	0.13	0.049	(0.122)	0.045	0.005
216	18.00	0.13	0.049	(0.122)	0.045	0.005
217	18.08	0.13	0.049	(0.121)	0.045	0.005
218	18.17	0.13	0.049	(0.120)	0.045	0.005
219	18.25	0.13	0.049	(0.120)	0.045	0.005
220	18.33	0.13	0.049	(0.119)	0.045	0.005
221	18.42	0.13	0.049	(0.119)	0.045	0.005
222	18.50	0.13	0.049	(0.118)	0.045	0.005
223	18.58	0.10	0.037	(0.118)	0.033	0.004
224	18.67	0.10	0.037	(0.117)	0.033	0.004
225	18.75	0.10	0.037	(0.116)	0.033	0.004
226	18.83	0.07	0.025	(0.116)	0.022	0.002
227	18.92	0.07	0.025	(0.115)	0.022	0.002
228	19.00	0.07	0.025	(0.115)	0.022	0.002
229	19.08	0.10	0.037	(0.114)	0.033	0.004
230	19.17	0.10	0.037	(0.114)	0.033	0.004
231	19.25	0.10	0.037	(0.113)	0.033	0.004
232	19.33	0.13	0.049	(0.113)	0.045	0.005
233	19.42	0.13	0.049	(0.112)	0.045	0.005
234	19.50	0.13	0.049	(0.112)	0.045	0.005
235	19.58	0.10	0.037	(0.111)	0.033	0.004
236	19.67	0.10	0.037	(0.111)	0.033	0.004
237	19.75	0.10	0.037	(0.110)	0.033	0.004
238	19.83	0.07	0.025	(0.110)	0.022	0.002
239	19.92	0.07	0.025	(0.109)	0.022	0.002
240	20.00	0.07	0.025	(0.109)	0.022	0.002
241	20.08	0.10	0.037	(0.108)	0.033	0.004
242	20.17	0.10	0.037	(0.108)	0.033	0.004
243	20.25	0.10	0.037	(0.107)	0.033	0.004
244	20.33	0.10	0.037	(0.107)	0.033	0.004

245	20.42	0.10	0.037	(0.106)	0.033	0.004
246	20.50	0.10	0.037	(0.106)	0.033	0.004
247	20.58	0.10	0.037	(0.105)	0.033	0.004
248	20.67	0.10	0.037	(0.105)	0.033	0.004
249	20.75	0.10	0.037	(0.104)	0.033	0.004
250	20.83	0.07	0.025	(0.104)	0.022	0.002
251	20.92	0.07	0.025	(0.104)	0.022	0.002
252	21.00	0.07	0.025	(0.103)	0.022	0.002
253	21.08	0.10	0.037	(0.103)	0.033	0.004
254	21.17	0.10	0.037	(0.102)	0.033	0.004
255	21.25	0.10	0.037	(0.102)	0.033	0.004
256	21.33	0.07	0.025	(0.102)	0.022	0.002
257	21.42	0.07	0.025	(0.101)	0.022	0.002
258	21.50	0.07	0.025	(0.101)	0.022	0.002
259	21.58	0.10	0.037	(0.100)	0.033	0.004
260	21.67	0.10	0.037	(0.100)	0.033	0.004
261	21.75	0.10	0.037	(0.100)	0.033	0.004
262	21.83	0.07	0.025	(0.099)	0.022	0.002
263	21.92	0.07	0.025	(0.099)	0.022	0.002
264	22.00	0.07	0.025	(0.099)	0.022	0.002
265	22.08	0.10	0.037	(0.098)	0.033	0.004
266	22.17	0.10	0.037	(0.098)	0.033	0.004
267	22.25	0.10	0.037	(0.098)	0.033	0.004
268	22.33	0.07	0.025	(0.097)	0.022	0.002
269	22.42	0.07	0.025	(0.097)	0.022	0.002
270	22.50	0.07	0.025	(0.097)	0.022	0.002
271	22.58	0.07	0.025	(0.097)	0.022	0.002
272	22.67	0.07	0.025	(0.096)	0.022	0.002
273	22.75	0.07	0.025	(0.096)	0.022	0.002
274	22.83	0.07	0.025	(0.096)	0.022	0.002
275	22.92	0.07	0.025	(0.096)	0.022	0.002
276	23.00	0.07	0.025	(0.095)	0.022	0.002
277	23.08	0.07	0.025	(0.095)	0.022	0.002
278	23.17	0.07	0.025	(0.095)	0.022	0.002
279	23.25	0.07	0.025	(0.095)	0.022	0.002
280	23.33	0.07	0.025	(0.095)	0.022	0.002
281	23.42	0.07	0.025	(0.094)	0.022	0.002
282	23.50	0.07	0.025	(0.094)	0.022	0.002
283	23.58	0.07	0.025	(0.094)	0.022	0.002
284	23.67	0.07	0.025	(0.094)	0.022	0.002
285	23.75	0.07	0.025	(0.094)	0.022	0.002
286	23.83	0.07	0.025	(0.094)	0.022	0.002
287	23.92	0.07	0.025	(0.094)	0.022	0.002
288	24.00	0.07	0.025	(0.094)	0.022	0.002

(Loss Rate Not Used)

Sum = 100.0

Sum = 10.8

Flood volume = Effective rainfall 0.90(In)

times area 9.6(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)

Total soil loss = 2.20(In)

Total soil loss = 1.752(Ac.Ft)

Total rainfall = 3.09(In)
 Flood volume = 31201.4 Cubic Feet
 Total soil loss = 76303.7 Cubic Feet

 Peak flow rate of this hydrograph = 2.508(CFS)

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

 Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0002	0.02	Q				
0+15	0.0003	0.02	Q				
0+20	0.0005	0.03	Q				
0+25	0.0008	0.03	Q				
0+30	0.0010	0.03	Q				
0+35	0.0013	0.04	Q				
0+40	0.0015	0.04	Q				
0+45	0.0017	0.04	Q				
0+50	0.0020	0.04	Q				
0+55	0.0023	0.05	Q				
1+ 0	0.0027	0.05	Q				
1+ 5	0.0030	0.04	Q				
1+10	0.0032	0.04	Q				
1+15	0.0035	0.04	Q				
1+20	0.0037	0.04	Q				
1+25	0.0040	0.04	Q				
1+30	0.0042	0.04	Q				
1+35	0.0045	0.04	Q				
1+40	0.0047	0.04	Q				
1+45	0.0050	0.04	Q				
1+50	0.0052	0.04	Q				
1+55	0.0055	0.05	Q				
2+ 0	0.0059	0.05	Q				
2+ 5	0.0062	0.05	Q				
2+10	0.0065	0.05	Q				
2+15	0.0069	0.05	Q				
2+20	0.0072	0.05	Q				
2+25	0.0075	0.05	Q				
2+30	0.0078	0.05	Q				
2+35	0.0082	0.05	Q				
2+40	0.0086	0.06	Q				
2+45	0.0090	0.06	Q				
2+50	0.0094	0.06	Q				
2+55	0.0098	0.06	Q				

3+ 0	0.0102	0.06	Q
3+ 5	0.0106	0.06	Q
3+10	0.0111	0.06	Q
3+15	0.0115	0.06	Q
3+20	0.0119	0.06	Q
3+25	0.0123	0.06	Q
3+30	0.0127	0.06	Q
3+35	0.0131	0.06	Q
3+40	0.0135	0.06	Q
3+45	0.0139	0.06	Q
3+50	0.0144	0.06	Q
3+55	0.0149	0.07	Q
4+ 0	0.0153	0.07	Q
4+ 5	0.0158	0.07	Q
4+10	0.0163	0.07	Q
4+15	0.0168	0.07	Q
4+20	0.0173	0.08	Q
4+25	0.0179	0.08	Q
4+30	0.0185	0.08	QV
4+35	0.0191	0.08	QV
4+40	0.0196	0.08	QV
4+45	0.0202	0.08	QV
4+50	0.0208	0.09	QV
4+55	0.0215	0.09	QV
5+ 0	0.0221	0.09	QV
5+ 5	0.0227	0.09	QV
5+10	0.0232	0.08	QV
5+15	0.0237	0.07	QV
5+20	0.0243	0.08	QV
5+25	0.0248	0.08	QV
5+30	0.0254	0.08	QV
5+35	0.0260	0.09	QV
5+40	0.0266	0.09	QV
5+45	0.0273	0.09	QV
5+50	0.0279	0.10	QV
5+55	0.0286	0.10	QV
6+ 0	0.0293	0.10	QV
6+ 5	0.0299	0.10	QV
6+10	0.0307	0.11	QV
6+15	0.0314	0.11	QV
6+20	0.0321	0.11	QV
6+25	0.0329	0.11	QV
6+30	0.0336	0.11	QV
6+35	0.0344	0.11	QV
6+40	0.0352	0.12	QV
6+45	0.0360	0.12	Q V
6+50	0.0368	0.12	Q V
6+55	0.0377	0.12	Q V
7+ 0	0.0385	0.12	Q V
7+ 5	0.0393	0.12	Q V

7+10	0.0401	0.12	Q	V
7+15	0.0410	0.12	Q	V
7+20	0.0418	0.12	Q	V
7+25	0.0427	0.13	Q	V
7+30	0.0436	0.13	Q	V
7+35	0.0445	0.14	Q	V
7+40	0.0455	0.14	Q	V
7+45	0.0465	0.14	Q	V
7+50	0.0475	0.15	Q	V
7+55	0.0485	0.15	Q	V
8+ 0	0.0496	0.15	Q	V
8+ 5	0.0507	0.16	Q	V
8+10	0.0519	0.17	Q	V
8+15	0.0532	0.18	Q	V
8+20	0.0544	0.18	Q	V
8+25	0.0556	0.18	Q	V
8+30	0.0569	0.18	Q	V
8+35	0.0581	0.18	Q	V
8+40	0.0594	0.19	Q	V
8+45	0.0607	0.19	Q	V
8+50	0.0621	0.20	Q	V
8+55	0.0635	0.20	Q	V
9+ 0	0.0649	0.20	Q	V
9+ 5	0.0664	0.22	Q	V
9+10	0.0681	0.25	Q	V
9+15	0.0700	0.27	Q	V
9+20	0.0722	0.32	Q	V
9+25	0.0749	0.39	Q	V
9+30	0.0777	0.41	Q	V
9+35	0.0809	0.47	Q	V
9+40	0.0846	0.53	Q	V
9+45	0.0884	0.56	Q	V
9+50	0.0926	0.61	Q	V
9+55	0.0973	0.68	Q	V
10+ 0	0.1022	0.70	Q	V
10+ 5	0.1058	0.52	Q	V
10+10	0.1077	0.27	Q	V
10+15	0.1092	0.22	Q	V
10+20	0.1105	0.19	Q	V
10+25	0.1117	0.18	Q	V
10+30	0.1130	0.18	Q	V
10+35	0.1151	0.31	Q	V
10+40	0.1185	0.48	Q	V
10+45	0.1221	0.53	Q	V
10+50	0.1259	0.55	Q	V
10+55	0.1299	0.57	Q	V
11+ 0	0.1339	0.58	Q	V
11+ 5	0.1377	0.55	Q	V
11+10	0.1411	0.50	Q	V
11+15	0.1446	0.50	Q	V

11+20	0.1480	0.50	Q	V				
11+25	0.1515	0.51	Q	V				
11+30	0.1551	0.52	Q	V				
11+35	0.1581	0.44	Q	V				
11+40	0.1604	0.34	Q	V				
11+45	0.1626	0.32	Q	V				
11+50	0.1651	0.36	Q	V				
11+55	0.1680	0.42	Q	V				
12+ 0	0.1710	0.44	Q	V				
12+ 5	0.1762	0.76	Q	V				
12+10	0.1842	1.15	Q	V				
12+15	0.1928	1.25	Q	V				
12+20	0.2020	1.34	Q	V				
12+25	0.2118	1.42	Q	V				
12+30	0.2218	1.45	Q	V				
12+35	0.2324	1.55	Q	V				
12+40	0.2439	1.67	Q	V				
12+45	0.2556	1.70	Q	V				
12+50	0.2677	1.76	Q	V				
12+55	0.2804	1.83	Q	V				
13+ 0	0.2931	1.85	Q	V				
13+ 5	0.3075	2.08	Q	V				
13+10	0.3238	2.37	Q	V				
13+15	0.3406	2.44	Q	V				
13+20	0.3576	2.47	Q	V				
13+25	0.3749	2.50	Q	V				
13+30	0.3921	2.51	Q	V				
13+35	0.4062	2.04	Q	V				
13+40	0.4161	1.44	Q	V				
13+45	0.4252	1.31	Q	V				
13+50	0.4339	1.26	Q	V				
13+55	0.4424	1.23	Q	V				
14+ 0	0.4509	1.24	Q	V				
14+ 5	0.4607	1.42	Q	V				
14+10	0.4720	1.65	Q	V				
14+15	0.4838	1.71	Q	V				
14+20	0.4954	1.69	Q	V				
14+25	0.5069	1.66	Q	V				
14+30	0.5182	1.65	Q	V				
14+35	0.5297	1.66	Q	V				
14+40	0.5411	1.66	Q	V				
14+45	0.5526	1.67	Q	V				
14+50	0.5638	1.63	Q	V				
14+55	0.5747	1.58	Q	V				
15+ 0	0.5856	1.58	Q	V				
15+ 5	0.5962	1.54	Q	V				
15+10	0.6064	1.49	Q	V				
15+15	0.6166	1.48	Q	V				
15+20	0.6265	1.44	Q	V				
15+25	0.6360	1.39	Q	V				

15+30	0.6456	1.38		Q			V
15+35	0.6539	1.21		Q			V
15+40	0.6608	0.99		Q			V
15+45	0.6673	0.95		Q			V
15+50	0.6738	0.94		Q			V
15+55	0.6802	0.93		Q			V
16+ 0	0.6866	0.94		Q			V
16+ 5	0.6909	0.62		Q			V
16+10	0.6923	0.21	Q				V
16+15	0.6931	0.11	Q				V
16+20	0.6936	0.07	Q				V
16+25	0.6939	0.05	Q				V
16+30	0.6943	0.05	Q				V
16+35	0.6946	0.04	Q				V
16+40	0.6948	0.04	Q				V
16+45	0.6951	0.04	Q				V
16+50	0.6953	0.04	Q				V
16+55	0.6956	0.04	Q				V
17+ 0	0.6958	0.04	Q				V
17+ 5	0.6961	0.04	Q				V
17+10	0.6965	0.06	Q				V
17+15	0.6969	0.06	Q				V
17+20	0.6973	0.06	Q				V
17+25	0.6977	0.06	Q				V
17+30	0.6981	0.06	Q				V
17+35	0.6985	0.06	Q				V
17+40	0.6990	0.06	Q				V
17+45	0.6994	0.06	Q				V
17+50	0.6998	0.06	Q				V
17+55	0.7001	0.05	Q				V
18+ 0	0.7004	0.05	Q				V
18+ 5	0.7008	0.05	Q				V
18+10	0.7011	0.05	Q				V
18+15	0.7014	0.05	Q				V
18+20	0.7018	0.05	Q				V
18+25	0.7021	0.05	Q				V
18+30	0.7024	0.05	Q				V
18+35	0.7027	0.04	Q				V
18+40	0.7030	0.04	Q				V
18+45	0.7032	0.04	Q				V
18+50	0.7034	0.03	Q				V
18+55	0.7036	0.03	Q				V
19+ 0	0.7038	0.02	Q				V
19+ 5	0.7040	0.03	Q				V
19+10	0.7042	0.03	Q				V
19+15	0.7045	0.03	Q				V
19+20	0.7047	0.04	Q				V
19+25	0.7050	0.05	Q				V
19+30	0.7054	0.05	Q				V
19+35	0.7057	0.04	Q				V

19+40	0.7059	0.04	Q				V
19+45	0.7062	0.04	Q				V
19+50	0.7064	0.03	Q				V
19+55	0.7066	0.03	Q				V
20+ 0	0.7068	0.02	Q				V
20+ 5	0.7069	0.03	Q				V
20+10	0.7072	0.03	Q				V
20+15	0.7074	0.03	Q				V
20+20	0.7077	0.04	Q				V
20+25	0.7079	0.04	Q				V
20+30	0.7082	0.04	Q				V
20+35	0.7084	0.04	Q				V
20+40	0.7087	0.04	Q				V
20+45	0.7089	0.04	Q				V
20+50	0.7091	0.03	Q				V
20+55	0.7093	0.03	Q				V
21+ 0	0.7095	0.02	Q				V
21+ 5	0.7097	0.03	Q				V
21+10	0.7099	0.03	Q				V
21+15	0.7101	0.03	Q				V
21+20	0.7104	0.03	Q				V
21+25	0.7105	0.03	Q				V
21+30	0.7107	0.02	Q				V
21+35	0.7109	0.03	Q				V
21+40	0.7111	0.03	Q				V
21+45	0.7114	0.03	Q				V
21+50	0.7116	0.03	Q				V
21+55	0.7118	0.03	Q				V
22+ 0	0.7119	0.02	Q				V
22+ 5	0.7121	0.03	Q				V
22+10	0.7124	0.03	Q				V
22+15	0.7126	0.03	Q				V
22+20	0.7128	0.03	Q				V
22+25	0.7130	0.03	Q				V
22+30	0.7132	0.02	Q				V
22+35	0.7133	0.02	Q				V
22+40	0.7135	0.02	Q				V
22+45	0.7137	0.02	Q				V
22+50	0.7138	0.02	Q				V
22+55	0.7140	0.02	Q				V
23+ 0	0.7142	0.02	Q				V
23+ 5	0.7143	0.02	Q				V
23+10	0.7145	0.02	Q				V
23+15	0.7147	0.02	Q				V
23+20	0.7148	0.02	Q				V
23+25	0.7150	0.02	Q				V
23+30	0.7151	0.02	Q				V
23+35	0.7153	0.02	Q				V
23+40	0.7155	0.02	Q				V
23+45	0.7156	0.02	Q				V

23+50	0.7158	0.02	Q				V
23+55	0.7160	0.02	Q				V
24+ 0	0.7161	0.02	Q				V
24+ 5	0.7162	0.02	Q				V
24+10	0.7163	0.00	Q				V
24+15	0.7163	0.00	Q				V
24+20	0.7163	0.00	Q				V

Existing 100-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 100YR-1HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	0.48	4.60

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.25	11.97

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 1.250(In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 1.250(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	94.0	0.078	0.000	0.078	1.000	0.078
Sum (F) =						0.078

Area averaged mean soil loss (F) (In/Hr) = 0.078
 Minimum soil loss rate ((In/Hr)) = 0.039
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.900

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	162.684	36.109
2	0.167	325.368	46.066
3	0.250	488.052	10.495
4	0.333	650.736	4.496
5	0.417	813.420	2.833
		Sum = 100.000	Sum= 9.650

0+50	0.6278	23.33				V		Q		
0+55	0.7884	23.32						Q V		
1+ 0	0.8722	12.18			Q				V	
1+ 5	0.9148	6.18		Q					V	
1+10	0.9298	2.18	Q						V	
1+15	0.9338	0.59	Q						V	
1+20	0.9351	0.18	Q						V	

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 100YR-3HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
9.57	0.80	7.66

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.95	18.67

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.950(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.950(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	94.0	0.078	0.000	0.078	1.000	0.078
Sum (F) =						0.078

Area averaged mean soil loss (F) (In/Hr) = 0.078
 Minimum soil loss rate ((In/Hr)) = 0.039
 (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	162.684	3.484
2	0.167	325.368	4.445
3	0.250	488.052	1.013
4	0.333	650.736	0.434
5	0.417	813.420	0.273
		Sum = 100.000	Sum= 9.650

Total soil loss = 8133.2 Cubic Feet

Peak flow rate of this hydrograph = 15.821(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	5.0	10.0	15.0	20.0
0+ 5	0.0054	0.79	VQ				
0+10	0.0178	1.79	V Q				
0+15	0.0306	1.86	V Q				
0+20	0.0449	2.08	V Q				
0+25	0.0622	2.51	V Q				
0+30	0.0816	2.83	V Q				
0+35	0.1018	2.92	V Q				
0+40	0.1221	2.95	V Q				
0+45	0.1443	3.22	V Q				
0+50	0.1652	3.04	V Q				
0+55	0.1846	2.82	Q				
1+ 0	0.2055	3.03	Q				
1+ 5	0.2301	3.56	VQ				
1+10	0.2577	4.02	VQ				
1+15	0.2862	4.14	Q				
1+20	0.3140	4.03	QV				
1+25	0.3438	4.34	Q V				
1+30	0.3782	4.99	Q V				
1+35	0.4125	4.98	Q V				
1+40	0.4468	4.98	Q V				
1+45	0.4864	5.76	Q V				
1+50	0.5296	6.27	Q V				
1+55	0.5712	6.05	Q V				
2+ 0	0.6123	5.96	Q V				
2+ 5	0.6544	6.11	Q V				
2+10	0.7033	7.10	Q V				
2+15	0.7647	8.92	Q V				
2+20	0.8254	8.81	Q V				
2+25	0.8960	10.25	Q V				
2+30	0.9916	13.89	Q V				
2+35	1.1005	15.82	Q V				
2+40	1.2055	15.24	Q V				
2+45	1.2753	10.14	Q V				
2+50	1.3132	5.50	Q V				
2+55	1.3420	4.19	Q V				
3+ 0	1.3600	2.62	Q V				
3+ 5	1.3661	0.88	Q V				

3+10	1.3682	0.31	Q				V
3+15	1.3690	0.12	Q				V
3+20	1.3692	0.02	Q				V

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 100YR-6HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	1.11	10.63

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	2.70	25.85

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 2.700(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.700(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	94.0	0.078	0.000	0.078	1.000	0.078
Sum (F) =						0.078

Area averaged mean soil loss (F) (In/Hr) = 0.078
 Minimum soil loss rate ((In/Hr)) = 0.039
 (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	162.684	3.484
2	0.167	325.368	4.445
3	0.250	488.052	1.013
4	0.333	650.736	0.434
5	0.417	813.420	0.273
		Sum = 100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.162	0.078	(0.146)	0.084
2	0.17	0.60	0.194	0.078	(0.175)	0.116
3	0.25	0.60	0.194	0.078	(0.175)	0.116
4	0.33	0.60	0.194	0.078	(0.175)	0.116
5	0.42	0.60	0.194	0.078	(0.175)	0.116
6	0.50	0.70	0.227	0.078	(0.204)	0.149
7	0.58	0.70	0.227	0.078	(0.204)	0.149
8	0.67	0.70	0.227	0.078	(0.204)	0.149
9	0.75	0.70	0.227	0.078	(0.204)	0.149
10	0.83	0.70	0.227	0.078	(0.204)	0.149
11	0.92	0.70	0.227	0.078	(0.204)	0.149
12	1.00	0.80	0.259	0.078	(0.233)	0.181
13	1.08	0.80	0.259	0.078	(0.233)	0.181
14	1.17	0.80	0.259	0.078	(0.233)	0.181
15	1.25	0.80	0.259	0.078	(0.233)	0.181
16	1.33	0.80	0.259	0.078	(0.233)	0.181
17	1.42	0.80	0.259	0.078	(0.233)	0.181
18	1.50	0.80	0.259	0.078	(0.233)	0.181
19	1.58	0.80	0.259	0.078	(0.233)	0.181
20	1.67	0.80	0.259	0.078	(0.233)	0.181
21	1.75	0.80	0.259	0.078	(0.233)	0.181
22	1.83	0.80	0.259	0.078	(0.233)	0.181
23	1.92	0.80	0.259	0.078	(0.233)	0.181
24	2.00	0.90	0.292	0.078	(0.262)	0.214
25	2.08	0.80	0.259	0.078	(0.233)	0.181
26	2.17	0.90	0.292	0.078	(0.262)	0.214
27	2.25	0.90	0.292	0.078	(0.262)	0.214
28	2.33	0.90	0.292	0.078	(0.262)	0.214
29	2.42	0.90	0.292	0.078	(0.262)	0.214
30	2.50	0.90	0.292	0.078	(0.262)	0.214
31	2.58	0.90	0.292	0.078	(0.262)	0.214
32	2.67	0.90	0.292	0.078	(0.262)	0.214
33	2.75	1.00	0.324	0.078	(0.292)	0.246
34	2.83	1.00	0.324	0.078	(0.292)	0.246
35	2.92	1.00	0.324	0.078	(0.292)	0.246
36	3.00	1.00	0.324	0.078	(0.292)	0.246
37	3.08	1.00	0.324	0.078	(0.292)	0.246
38	3.17	1.10	0.356	0.078	(0.321)	0.278
39	3.25	1.10	0.356	0.078	(0.321)	0.278
40	3.33	1.10	0.356	0.078	(0.321)	0.278
41	3.42	1.20	0.389	0.078	(0.350)	0.311
42	3.50	1.30	0.421	0.078	(0.379)	0.343
43	3.58	1.40	0.454	0.078	(0.408)	0.376
44	3.67	1.40	0.454	0.078	(0.408)	0.376

0+10	0.0074	0.78	VQ				
0+15	0.0143	1.01	V Q				
0+20	0.0218	1.08	V Q				
0+25	0.0294	1.11	V Q				
0+30	0.0379	1.24	V Q				
0+35	0.0475	1.38	VQ				
0+40	0.0572	1.41	VQ				
0+45	0.0670	1.43	VQ				
0+50	0.0769	1.44	VQ				
0+55	0.0868	1.44	VQ				
1+ 0	0.0975	1.55	VQ				
1+ 5	0.1091	1.69	VQ				
1+10	0.1210	1.73	VQ				
1+15	0.1330	1.74	VQ				
1+20	0.1451	1.75	Q				
1+25	0.1571	1.75	Q				
1+30	0.1692	1.75	Q				
1+35	0.1812	1.75	QV				
1+40	0.1933	1.75	QV				
1+45	0.2053	1.75	QV				
1+50	0.2174	1.75	QV				
1+55	0.2294	1.75	Q V				
2+ 0	0.2422	1.86	Q V				
2+ 5	0.2553	1.89	Q V				
2+10	0.2683	1.90	Q V				
2+15	0.2822	2.02	Q V				
2+20	0.2963	2.05	Q V				
2+25	0.3105	2.05	Q V				
2+30	0.3247	2.06	Q V				
2+35	0.3389	2.06	Q V				
2+40	0.3531	2.06	Q V				
2+45	0.3681	2.18	Q V				
2+50	0.3841	2.32	Q V				
2+55	0.4002	2.35	Q V				
3+ 0	0.4165	2.37	Q V				
3+ 5	0.4329	2.37	Q V				
3+10	0.4500	2.49	Q V				
3+15	0.4682	2.63	Q V				
3+20	0.4865	2.66	Q V				
3+25	0.5057	2.79	Q V				
3+30	0.5268	3.06	Q V				
3+35	0.5499	3.35	Q V				
3+40	0.5742	3.54	Q V				
3+45	0.5998	3.71	Q V				
3+50	0.6264	3.87	Q V				
3+55	0.6542	4.03	Q V				
4+ 0	0.6830	4.19	Q V				
4+ 5	0.7129	4.34	Q V				
4+10	0.7447	4.61	Q V				
4+15	0.7785	4.91	Q V				

4+20	0.8144	5.22		Q	V			
4+25	0.8525	5.53		Q	V			
4+30	0.8920	5.73		Q	V			
4+35	0.9326	5.90		Q	V			
4+40	0.9751	6.18		Q	V			
4+45	1.0197	6.48		Q	V			
4+50	1.0656	6.67		Q	V			
4+55	1.1127	6.84		Q	V			
5+ 0	1.1617	7.12		Q	V			
5+ 5	1.2159	7.87		Q	V			
5+10	1.2792	9.20		Q	V			
5+15	1.3512	10.44		Q	V			
5+20	1.4301	11.46			Q		V	
5+25	1.5173	12.67			Q		V	
5+30	1.6178	14.59			Q		V	
5+35	1.7001	11.94			Q		V	
5+40	1.7405	5.87		Q			V	
5+45	1.7615	3.05		Q			V	
5+50	1.7735	1.74	Q				V	
5+55	1.7790	0.80	Q				V	
6+ 0	1.7811	0.30	Q				V	
6+ 5	1.7819	0.12	Q				V	
6+10	1.7821	0.04	Q				V	
6+15	1.7822	0.01	Q				V	
6+20	1.7822	0.00	Q				V	

Unit Hydrograph Analysis

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Study date 08/01/22 File: A21626Q100UHEX24100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 EXISTING 100YR-24HR UH

Drainage Area = 9.57(Ac.) = 0.015 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 9.57(Ac.) =
0.015 Sq. Mi.
Length along longest watercourse = 541.43(Ft.)
Length along longest watercourse measured to centroid = 471.06(Ft.)
Length along longest watercourse = 0.103 Mi.
Length along longest watercourse measured to centroid = 0.089 Mi.
Difference in elevation = 9.44(Ft.)
Slope along watercourse = 92.0584 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.051 Hr.
Lag time = 3.07 Min.
25% of lag time = 0.77 Min.
40% of lag time = 1.23 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]
9.57	1.90	18.19

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9.57	4.80	45.96

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 4.800(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 4.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
9.575	85.00	0.000
Total Area Entered = 9.57(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
85.0	94.0	0.078	0.000	0.078	1.000	0.078
Sum (F) =						0.078

Area averaged mean soil loss (F) (In/Hr) = 0.078
 Minimum soil loss rate ((In/Hr)) = 0.039
 (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	162.684	3.484
2	0.167	325.368	4.445
3	0.250	488.052	1.013
4	0.333	650.736	0.434
5	0.417	813.420	0.273
Sum =		100.000	Sum= 9.650

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.038	(0.138)	0.035	0.004
2	0.17	0.07	0.038	(0.138)	0.035	0.004
3	0.25	0.07	0.038	(0.137)	0.035	0.004
4	0.33	0.10	0.058	(0.137)	0.052	0.006
5	0.42	0.10	0.058	(0.136)	0.052	0.006
6	0.50	0.10	0.058	(0.136)	0.052	0.006
7	0.58	0.10	0.058	(0.135)	0.052	0.006
8	0.67	0.10	0.058	(0.135)	0.052	0.006
9	0.75	0.10	0.058	(0.134)	0.052	0.006
10	0.83	0.13	0.077	(0.133)	0.069	0.008
11	0.92	0.13	0.077	(0.133)	0.069	0.008
12	1.00	0.13	0.077	(0.132)	0.069	0.008
13	1.08	0.10	0.058	(0.132)	0.052	0.006
14	1.17	0.10	0.058	(0.131)	0.052	0.006
15	1.25	0.10	0.058	(0.131)	0.052	0.006
16	1.33	0.10	0.058	(0.130)	0.052	0.006
17	1.42	0.10	0.058	(0.130)	0.052	0.006
18	1.50	0.10	0.058	(0.129)	0.052	0.006
19	1.58	0.10	0.058	(0.129)	0.052	0.006
20	1.67	0.10	0.058	(0.128)	0.052	0.006
21	1.75	0.10	0.058	(0.128)	0.052	0.006
22	1.83	0.13	0.077	(0.127)	0.069	0.008
23	1.92	0.13	0.077	(0.127)	0.069	0.008
24	2.00	0.13	0.077	(0.126)	0.069	0.008
25	2.08	0.13	0.077	(0.126)	0.069	0.008
26	2.17	0.13	0.077	(0.125)	0.069	0.008
27	2.25	0.13	0.077	(0.125)	0.069	0.008
28	2.33	0.13	0.077	(0.124)	0.069	0.008
29	2.42	0.13	0.077	(0.124)	0.069	0.008
30	2.50	0.13	0.077	(0.123)	0.069	0.008
31	2.58	0.17	0.096	(0.123)	0.086	0.010
32	2.67	0.17	0.096	(0.122)	0.086	0.010
33	2.75	0.17	0.096	(0.122)	0.086	0.010
34	2.83	0.17	0.096	(0.121)	0.086	0.010
35	2.92	0.17	0.096	(0.121)	0.086	0.010
36	3.00	0.17	0.096	(0.120)	0.086	0.010
37	3.08	0.17	0.096	(0.120)	0.086	0.010
38	3.17	0.17	0.096	(0.119)	0.086	0.010
39	3.25	0.17	0.096	(0.119)	0.086	0.010
40	3.33	0.17	0.096	(0.118)	0.086	0.010
41	3.42	0.17	0.096	(0.118)	0.086	0.010
42	3.50	0.17	0.096	(0.117)	0.086	0.010
43	3.58	0.17	0.096	(0.117)	0.086	0.010
44	3.67	0.17	0.096	(0.116)	0.086	0.010

45	3.75	0.17	0.096	(0.116)	0.086	0.010
46	3.83	0.20	0.115	(0.115)	0.104	0.012
47	3.92	0.20	0.115	(0.115)	0.104	0.012
48	4.00	0.20	0.115	(0.114)	0.104	0.012
49	4.08	0.20	0.115	(0.114)	0.104	0.012
50	4.17	0.20	0.115	(0.113)	0.104	0.012
51	4.25	0.20	0.115	(0.113)	0.104	0.012
52	4.33	0.23	0.134	0.112	(0.121)	0.022
53	4.42	0.23	0.134	0.112	(0.121)	0.023
54	4.50	0.23	0.134	0.111	(0.121)	0.023
55	4.58	0.23	0.134	0.111	(0.121)	0.023
56	4.67	0.23	0.134	0.110	(0.121)	0.024
57	4.75	0.23	0.134	0.110	(0.121)	0.024
58	4.83	0.27	0.154	0.109	(0.138)	0.044
59	4.92	0.27	0.154	0.109	(0.138)	0.045
60	5.00	0.27	0.154	0.109	(0.138)	0.045
61	5.08	0.20	0.115	(0.108)	0.104	0.012
62	5.17	0.20	0.115	(0.108)	0.104	0.012
63	5.25	0.20	0.115	(0.107)	0.104	0.012
64	5.33	0.23	0.134	0.107	(0.121)	0.028
65	5.42	0.23	0.134	0.106	(0.121)	0.028
66	5.50	0.23	0.134	0.106	(0.121)	0.029
67	5.58	0.27	0.154	0.105	(0.138)	0.048
68	5.67	0.27	0.154	0.105	(0.138)	0.049
69	5.75	0.27	0.154	0.104	(0.138)	0.049
70	5.83	0.27	0.154	0.104	(0.138)	0.050
71	5.92	0.27	0.154	0.103	(0.138)	0.050
72	6.00	0.27	0.154	0.103	(0.138)	0.051
73	6.08	0.30	0.173	0.103	(0.156)	0.070
74	6.17	0.30	0.173	0.102	(0.156)	0.071
75	6.25	0.30	0.173	0.102	(0.156)	0.071
76	6.33	0.30	0.173	0.101	(0.156)	0.072
77	6.42	0.30	0.173	0.101	(0.156)	0.072
78	6.50	0.30	0.173	0.100	(0.156)	0.073
79	6.58	0.33	0.192	0.100	(0.173)	0.092
80	6.67	0.33	0.192	0.099	(0.173)	0.093
81	6.75	0.33	0.192	0.099	(0.173)	0.093
82	6.83	0.33	0.192	0.098	(0.173)	0.094
83	6.92	0.33	0.192	0.098	(0.173)	0.094
84	7.00	0.33	0.192	0.098	(0.173)	0.094
85	7.08	0.33	0.192	0.097	(0.173)	0.095
86	7.17	0.33	0.192	0.097	(0.173)	0.095
87	7.25	0.33	0.192	0.096	(0.173)	0.096
88	7.33	0.37	0.211	0.096	(0.190)	0.115
89	7.42	0.37	0.211	0.095	(0.190)	0.116
90	7.50	0.37	0.211	0.095	(0.190)	0.116
91	7.58	0.40	0.230	0.094	(0.207)	0.136
92	7.67	0.40	0.230	0.094	(0.207)	0.136
93	7.75	0.40	0.230	0.094	(0.207)	0.137
94	7.83	0.43	0.250	0.093	(0.225)	0.156

95	7.92	0.43	0.250	0.093	(0.225)	0.157
96	8.00	0.43	0.250	0.092	(0.225)	0.157
97	8.08	0.50	0.288	0.092	(0.259)	0.196
98	8.17	0.50	0.288	0.091	(0.259)	0.197
99	8.25	0.50	0.288	0.091	(0.259)	0.197
100	8.33	0.50	0.288	0.091	(0.259)	0.197
101	8.42	0.50	0.288	0.090	(0.259)	0.198
102	8.50	0.50	0.288	0.090	(0.259)	0.198
103	8.58	0.53	0.307	0.089	(0.276)	0.218
104	8.67	0.53	0.307	0.089	(0.276)	0.218
105	8.75	0.53	0.307	0.088	(0.276)	0.219
106	8.83	0.57	0.326	0.088	(0.294)	0.238
107	8.92	0.57	0.326	0.088	(0.294)	0.239
108	9.00	0.57	0.326	0.087	(0.294)	0.239
109	9.08	0.63	0.365	0.087	(0.328)	0.278
110	9.17	0.63	0.365	0.086	(0.328)	0.278
111	9.25	0.63	0.365	0.086	(0.328)	0.279
112	9.33	0.67	0.384	0.086	(0.346)	0.298
113	9.42	0.67	0.384	0.085	(0.346)	0.299
114	9.50	0.67	0.384	0.085	(0.346)	0.299
115	9.58	0.70	0.403	0.084	(0.363)	0.319
116	9.67	0.70	0.403	0.084	(0.363)	0.319
117	9.75	0.70	0.403	0.084	(0.363)	0.320
118	9.83	0.73	0.422	0.083	(0.380)	0.339
119	9.92	0.73	0.422	0.083	(0.380)	0.340
120	10.00	0.73	0.422	0.082	(0.380)	0.340
121	10.08	0.50	0.288	0.082	(0.259)	0.206
122	10.17	0.50	0.288	0.082	(0.259)	0.206
123	10.25	0.50	0.288	0.081	(0.259)	0.207
124	10.33	0.50	0.288	0.081	(0.259)	0.207
125	10.42	0.50	0.288	0.080	(0.259)	0.208
126	10.50	0.50	0.288	0.080	(0.259)	0.208
127	10.58	0.67	0.384	0.080	(0.346)	0.304
128	10.67	0.67	0.384	0.079	(0.346)	0.305
129	10.75	0.67	0.384	0.079	(0.346)	0.305
130	10.83	0.67	0.384	0.078	(0.346)	0.306
131	10.92	0.67	0.384	0.078	(0.346)	0.306
132	11.00	0.67	0.384	0.078	(0.346)	0.306
133	11.08	0.63	0.365	0.077	(0.328)	0.287
134	11.17	0.63	0.365	0.077	(0.328)	0.288
135	11.25	0.63	0.365	0.077	(0.328)	0.288
136	11.33	0.63	0.365	0.076	(0.328)	0.289
137	11.42	0.63	0.365	0.076	(0.328)	0.289
138	11.50	0.63	0.365	0.075	(0.328)	0.289
139	11.58	0.57	0.326	0.075	(0.294)	0.251
140	11.67	0.57	0.326	0.075	(0.294)	0.252
141	11.75	0.57	0.326	0.074	(0.294)	0.252
142	11.83	0.60	0.346	0.074	(0.311)	0.272
143	11.92	0.60	0.346	0.074	(0.311)	0.272
144	12.00	0.60	0.346	0.073	(0.311)	0.272

145	12.08	0.83	0.480	0.073	(0.432)	0.407
146	12.17	0.83	0.480	0.072	(0.432)	0.408
147	12.25	0.83	0.480	0.072	(0.432)	0.408
148	12.33	0.87	0.499	0.072	(0.449)	0.427
149	12.42	0.87	0.499	0.071	(0.449)	0.428
150	12.50	0.87	0.499	0.071	(0.449)	0.428
151	12.58	0.93	0.538	0.071	(0.484)	0.467
152	12.67	0.93	0.538	0.070	(0.484)	0.467
153	12.75	0.93	0.538	0.070	(0.484)	0.468
154	12.83	0.97	0.557	0.070	(0.501)	0.487
155	12.92	0.97	0.557	0.069	(0.501)	0.488
156	13.00	0.97	0.557	0.069	(0.501)	0.488
157	13.08	1.13	0.653	0.069	(0.588)	0.584
158	13.17	1.13	0.653	0.068	(0.588)	0.585
159	13.25	1.13	0.653	0.068	(0.588)	0.585
160	13.33	1.13	0.653	0.067	(0.588)	0.585
161	13.42	1.13	0.653	0.067	(0.588)	0.586
162	13.50	1.13	0.653	0.067	(0.588)	0.586
163	13.58	0.77	0.442	0.066	(0.397)	0.375
164	13.67	0.77	0.442	0.066	(0.397)	0.375
165	13.75	0.77	0.442	0.066	(0.397)	0.376
166	13.83	0.77	0.442	0.065	(0.397)	0.376
167	13.92	0.77	0.442	0.065	(0.397)	0.376
168	14.00	0.77	0.442	0.065	(0.397)	0.377
169	14.08	0.90	0.518	0.064	(0.467)	0.454
170	14.17	0.90	0.518	0.064	(0.467)	0.454
171	14.25	0.90	0.518	0.064	(0.467)	0.455
172	14.33	0.87	0.499	0.063	(0.449)	0.436
173	14.42	0.87	0.499	0.063	(0.449)	0.436
174	14.50	0.87	0.499	0.063	(0.449)	0.436
175	14.58	0.87	0.499	0.063	(0.449)	0.437
176	14.67	0.87	0.499	0.062	(0.449)	0.437
177	14.75	0.87	0.499	0.062	(0.449)	0.437
178	14.83	0.83	0.480	0.062	(0.432)	0.418
179	14.92	0.83	0.480	0.061	(0.432)	0.419
180	15.00	0.83	0.480	0.061	(0.432)	0.419
181	15.08	0.80	0.461	0.061	(0.415)	0.400
182	15.17	0.80	0.461	0.060	(0.415)	0.400
183	15.25	0.80	0.461	0.060	(0.415)	0.401
184	15.33	0.77	0.442	0.060	(0.397)	0.382
185	15.42	0.77	0.442	0.059	(0.397)	0.382
186	15.50	0.77	0.442	0.059	(0.397)	0.383
187	15.58	0.63	0.365	0.059	(0.328)	0.306
188	15.67	0.63	0.365	0.058	(0.328)	0.306
189	15.75	0.63	0.365	0.058	(0.328)	0.307
190	15.83	0.63	0.365	0.058	(0.328)	0.307
191	15.92	0.63	0.365	0.058	(0.328)	0.307
192	16.00	0.63	0.365	0.057	(0.328)	0.308
193	16.08	0.13	0.077	0.057	(0.069)	0.020
194	16.17	0.13	0.077	0.057	(0.069)	0.020

195	16.25	0.13	0.077	0.056	(0.069)	0.020
196	16.33	0.13	0.077	0.056	(0.069)	0.021
197	16.42	0.13	0.077	0.056	(0.069)	0.021
198	16.50	0.13	0.077	0.056	(0.069)	0.021
199	16.58	0.10	0.058	(0.055)	0.052	0.006
200	16.67	0.10	0.058	(0.055)	0.052	0.006
201	16.75	0.10	0.058	(0.055)	0.052	0.006
202	16.83	0.10	0.058	(0.054)	0.052	0.006
203	16.92	0.10	0.058	(0.054)	0.052	0.006
204	17.00	0.10	0.058	(0.054)	0.052	0.006
205	17.08	0.17	0.096	0.054	(0.086)	0.042
206	17.17	0.17	0.096	0.053	(0.086)	0.043
207	17.25	0.17	0.096	0.053	(0.086)	0.043
208	17.33	0.17	0.096	0.053	(0.086)	0.043
209	17.42	0.17	0.096	0.053	(0.086)	0.043
210	17.50	0.17	0.096	0.052	(0.086)	0.044
211	17.58	0.17	0.096	0.052	(0.086)	0.044
212	17.67	0.17	0.096	0.052	(0.086)	0.044
213	17.75	0.17	0.096	0.051	(0.086)	0.045
214	17.83	0.13	0.077	0.051	(0.069)	0.026
215	17.92	0.13	0.077	0.051	(0.069)	0.026
216	18.00	0.13	0.077	0.051	(0.069)	0.026
217	18.08	0.13	0.077	0.050	(0.069)	0.026
218	18.17	0.13	0.077	0.050	(0.069)	0.027
219	18.25	0.13	0.077	0.050	(0.069)	0.027
220	18.33	0.13	0.077	0.050	(0.069)	0.027
221	18.42	0.13	0.077	0.050	(0.069)	0.027
222	18.50	0.13	0.077	0.049	(0.069)	0.028
223	18.58	0.10	0.058	0.049	(0.052)	0.009
224	18.67	0.10	0.058	0.049	(0.052)	0.009
225	18.75	0.10	0.058	0.049	(0.052)	0.009
226	18.83	0.07	0.038	(0.048)	0.035	0.004
227	18.92	0.07	0.038	(0.048)	0.035	0.004
228	19.00	0.07	0.038	(0.048)	0.035	0.004
229	19.08	0.10	0.058	0.048	(0.052)	0.010
230	19.17	0.10	0.058	0.047	(0.052)	0.010
231	19.25	0.10	0.058	0.047	(0.052)	0.010
232	19.33	0.13	0.077	0.047	(0.069)	0.030
233	19.42	0.13	0.077	0.047	(0.069)	0.030
234	19.50	0.13	0.077	0.047	(0.069)	0.030
235	19.58	0.10	0.058	0.046	(0.052)	0.011
236	19.67	0.10	0.058	0.046	(0.052)	0.011
237	19.75	0.10	0.058	0.046	(0.052)	0.012
238	19.83	0.07	0.038	(0.046)	0.035	0.004
239	19.92	0.07	0.038	(0.045)	0.035	0.004
240	20.00	0.07	0.038	(0.045)	0.035	0.004
241	20.08	0.10	0.058	0.045	(0.052)	0.013
242	20.17	0.10	0.058	0.045	(0.052)	0.013
243	20.25	0.10	0.058	0.045	(0.052)	0.013
244	20.33	0.10	0.058	0.045	(0.052)	0.013

245	20.42	0.10	0.058	0.044	(0.052)	0.013
246	20.50	0.10	0.058	0.044	(0.052)	0.013
247	20.58	0.10	0.058	0.044	(0.052)	0.014
248	20.67	0.10	0.058	0.044	(0.052)	0.014
249	20.75	0.10	0.058	0.044	(0.052)	0.014
250	20.83	0.07	0.038	(0.043)	0.035	0.004
251	20.92	0.07	0.038	(0.043)	0.035	0.004
252	21.00	0.07	0.038	(0.043)	0.035	0.004
253	21.08	0.10	0.058	0.043	(0.052)	0.015
254	21.17	0.10	0.058	0.043	(0.052)	0.015
255	21.25	0.10	0.058	0.043	(0.052)	0.015
256	21.33	0.07	0.038	(0.042)	0.035	0.004
257	21.42	0.07	0.038	(0.042)	0.035	0.004
258	21.50	0.07	0.038	(0.042)	0.035	0.004
259	21.58	0.10	0.058	0.042	(0.052)	0.016
260	21.67	0.10	0.058	0.042	(0.052)	0.016
261	21.75	0.10	0.058	0.042	(0.052)	0.016
262	21.83	0.07	0.038	(0.041)	0.035	0.004
263	21.92	0.07	0.038	(0.041)	0.035	0.004
264	22.00	0.07	0.038	(0.041)	0.035	0.004
265	22.08	0.10	0.058	0.041	(0.052)	0.017
266	22.17	0.10	0.058	0.041	(0.052)	0.017
267	22.25	0.10	0.058	0.041	(0.052)	0.017
268	22.33	0.07	0.038	(0.041)	0.035	0.004
269	22.42	0.07	0.038	(0.041)	0.035	0.004
270	22.50	0.07	0.038	(0.040)	0.035	0.004
271	22.58	0.07	0.038	(0.040)	0.035	0.004
272	22.67	0.07	0.038	(0.040)	0.035	0.004
273	22.75	0.07	0.038	(0.040)	0.035	0.004
274	22.83	0.07	0.038	(0.040)	0.035	0.004
275	22.92	0.07	0.038	(0.040)	0.035	0.004
276	23.00	0.07	0.038	(0.040)	0.035	0.004
277	23.08	0.07	0.038	(0.040)	0.035	0.004
278	23.17	0.07	0.038	(0.040)	0.035	0.004
279	23.25	0.07	0.038	(0.040)	0.035	0.004
280	23.33	0.07	0.038	(0.039)	0.035	0.004
281	23.42	0.07	0.038	(0.039)	0.035	0.004
282	23.50	0.07	0.038	(0.039)	0.035	0.004
283	23.58	0.07	0.038	(0.039)	0.035	0.004
284	23.67	0.07	0.038	(0.039)	0.035	0.004
285	23.75	0.07	0.038	(0.039)	0.035	0.004
286	23.83	0.07	0.038	(0.039)	0.035	0.004
287	23.92	0.07	0.038	(0.039)	0.035	0.004
288	24.00	0.07	0.038	(0.039)	0.035	0.004

(Loss Rate Not Used)

Sum = 100.0

Sum = 38.2

Flood volume = Effective rainfall 3.18(In)

times area 9.6(Ac.)/[((In)/(Ft.))] = 2.5(Ac.Ft)

Total soil loss = 1.62(In)

Total soil loss = 1.292(Ac.Ft)

Total rainfall = 4.80(In)
 Flood volume = 110546.0 Cubic Feet
 Total soil loss = 56285.6 Cubic Feet

 Peak flow rate of this hydrograph = 5.654(CFS)

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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	0.0003	0.03	Q				
0+15	0.0005	0.03	Q				
0+20	0.0008	0.04	Q				
0+25	0.0012	0.05	Q				
0+30	0.0016	0.05	Q				
0+35	0.0019	0.06	Q				
0+40	0.0023	0.06	Q				
0+45	0.0027	0.06	Q				
0+50	0.0031	0.06	Q				
0+55	0.0036	0.07	Q				
1+ 0	0.0041	0.07	Q				
1+ 5	0.0046	0.07	Q				
1+10	0.0050	0.06	Q				
1+15	0.0054	0.06	Q				
1+20	0.0058	0.06	Q				
1+25	0.0062	0.06	Q				
1+30	0.0065	0.06	Q				
1+35	0.0069	0.06	Q				
1+40	0.0073	0.06	Q				
1+45	0.0077	0.06	Q				
1+50	0.0081	0.06	Q				
1+55	0.0086	0.07	Q				
2+ 0	0.0091	0.07	Q				
2+ 5	0.0096	0.07	Q				
2+10	0.0101	0.07	Q				
2+15	0.0106	0.07	Q				
2+20	0.0111	0.07	Q				
2+25	0.0117	0.07	Q				
2+30	0.0122	0.07	Q				
2+35	0.0127	0.08	Q				
2+40	0.0133	0.09	Q				
2+45	0.0140	0.09	Q				
2+50	0.0146	0.09	Q				
2+55	0.0152	0.09	Q				

3+ 0	0.0159	0.09	Q
3+ 5	0.0165	0.09	Q
3+10	0.0172	0.09	Q
3+15	0.0178	0.09	Q
3+20	0.0184	0.09	Q
3+25	0.0191	0.09	Q
3+30	0.0197	0.09	Q
3+35	0.0204	0.09	Q
3+40	0.0210	0.09	Q
3+45	0.0216	0.09	Q
3+50	0.0223	0.10	Q
3+55	0.0231	0.11	Q
4+ 0	0.0238	0.11	Q
4+ 5	0.0246	0.11	Q
4+10	0.0253	0.11	Q
4+15	0.0261	0.11	Q
4+20	0.0271	0.15	Q
4+25	0.0285	0.20	Q
4+30	0.0299	0.21	Q
4+35	0.0314	0.22	Q
4+40	0.0330	0.23	Q
4+45	0.0346	0.23	Q
4+50	0.0367	0.30	VQ
4+55	0.0394	0.39	VQ
5+ 0	0.0423	0.42	VQ
5+ 5	0.0444	0.31	VQ
5+10	0.0456	0.17	Q
5+15	0.0465	0.13	Q
5+20	0.0477	0.18	Q
5+25	0.0494	0.24	Q
5+30	0.0512	0.26	VQ
5+35	0.0535	0.34	VQ
5+40	0.0565	0.43	VQ
5+45	0.0597	0.46	VQ
5+50	0.0629	0.47	VQ
5+55	0.0662	0.48	Q
6+ 0	0.0696	0.48	Q
6+ 5	0.0734	0.56	VQ
6+10	0.0778	0.65	VQ
6+15	0.0825	0.67	VQ
6+20	0.0872	0.68	VQ
6+25	0.0919	0.69	VQ
6+30	0.0967	0.70	VQ
6+35	0.1020	0.77	V Q
6+40	0.1079	0.86	V Q
6+45	0.1140	0.88	V Q
6+50	0.1201	0.89	V Q
6+55	0.1264	0.90	V Q
7+ 0	0.1326	0.91	VQ
7+ 5	0.1389	0.91	VQ

7+10	0.1452	0.92	VQ				
7+15	0.1516	0.92	VQ				
7+20	0.1584	0.99	VQ				
7+25	0.1658	1.08	V Q				
7+30	0.1735	1.11	V Q				
7+35	0.1816	1.18	V Q				
7+40	0.1904	1.28	V Q				
7+45	0.1994	1.30	V Q				
7+50	0.2089	1.38	V Q				
7+55	0.2191	1.48	V Q				
8+ 0	0.2294	1.50	V Q				
8+ 5	0.2408	1.65	V Q				
8+10	0.2534	1.83	V Q				
8+15	0.2663	1.87	V Q				
8+20	0.2793	1.89	V Q				
8+25	0.2924	1.91	V Q				
8+30	0.3056	1.91	V Q				
8+35	0.3192	1.98	V Q				
8+40	0.3335	2.07	V Q				
8+45	0.3479	2.09	V Q				
8+50	0.3629	2.17	V Q				
8+55	0.3785	2.27	V Q				
9+ 0	0.3943	2.29	V Q				
9+ 5	0.4111	2.44	V Q				
9+10	0.4291	2.62	V Q				
9+15	0.4474	2.66	V Q				
9+20	0.4663	2.75	V Q				
9+25	0.4860	2.85	V Q				
9+30	0.5057	2.87	V Q				
9+35	0.5261	2.95	V Q				
9+40	0.5470	3.05	V Q				
9+45	0.5682	3.07	V Q				
9+50	0.5898	3.15	V Q				
9+55	0.6122	3.24	V Q				
10+ 0	0.6347	3.27	V Q				
10+ 5	0.6540	2.81	VQ				
10+10	0.6693	2.22	Q V				
10+15	0.6837	2.09	Q V				
10+20	0.6977	2.03	Q V				
10+25	0.7115	2.00	Q V				
10+30	0.7253	2.00	Q V				
10+35	0.7414	2.34	Q V				
10+40	0.7605	2.77	Q				
10+45	0.7803	2.87	QV				
10+50	0.8004	2.92	QV				
10+55	0.8208	2.95	QV				
11+ 0	0.8411	2.95	Q V				
11+ 5	0.8610	2.89	Q V				
11+10	0.8804	2.81	Q V				
11+15	0.8996	2.79	Q V				

11+20	0.9188	2.79		Q	V			
11+25	0.9380	2.79		Q	V			
11+30	0.9572	2.79		Q	V			
11+35	0.9755	2.66		Q	V			
11+40	0.9927	2.49		Q	V			
11+45	1.0096	2.46		Q	V			
11+50	1.0269	2.51		Q	V			
11+55	1.0448	2.59		Q	V			
12+ 0	1.0628	2.61		Q	V			
12+ 5	1.0841	3.09		Q	V			
12+10	1.1096	3.70		Q	V			
12+15	1.1360	3.84		Q	V			
12+20	1.1633	3.97		Q	V			
12+25	1.1915	4.09		Q	V			
12+30	1.2199	4.12		Q	V			
12+35	1.2492	4.26		Q	V			
12+40	1.2798	4.44		Q	V			
12+45	1.3107	4.48		Q	V			
12+50	1.3422	4.57		Q	V			
12+55	1.3744	4.67		Q	V			
13+ 0	1.4067	4.69		Q	V			
13+ 5	1.4414	5.04		Q	V			
13+10	1.4791	5.48		Q	V			
13+15	1.5175	5.58		Q	V			
13+20	1.5563	5.62		Q	V			
13+25	1.5952	5.65		Q	V			
13+30	1.6341	5.65		Q	V			
13+35	1.6680	4.92		Q	V			
13+40	1.6955	3.99		Q	V			
13+45	1.7215	3.77		Q	V			
13+50	1.7469	3.69		Q	V			
13+55	1.7719	3.63		Q	V			
14+ 0	1.7969	3.63		Q	V			
14+ 5	1.8238	3.91		Q	V			
14+10	1.8531	4.25		Q	V			
14+15	1.8829	4.33		Q	V			
14+20	1.9125	4.30		Q	V			
14+25	1.9417	4.24		Q	V			
14+30	1.9708	4.22		Q	V			
14+35	1.9999	4.22		Q	V			
14+40	2.0289	4.22		Q	V			
14+45	2.0580	4.22		Q	V			
14+50	2.0866	4.16		Q	V			
14+55	2.1146	4.07		Q	V			
15+ 0	2.1426	4.06		Q	V			
15+ 5	2.1700	3.98		Q	V			
15+10	2.1969	3.90		Q	V			
15+15	2.2236	3.88		Q	V			
15+20	2.2498	3.81		Q	V			
15+25	2.2754	3.72		Q	V			

15+30	2.3009	3.70					V
15+35	2.3246	3.43					V
15+40	2.3458	3.09					V
15+45	2.3666	3.01					V
15+50	2.3871	2.98					V
15+55	2.4075	2.96					V
16+ 0	2.4280	2.97					V
16+ 5	2.4415	1.97					V
16+10	2.4462	0.69					V
16+15	2.4490	0.40					V
16+20	2.4509	0.28					V
16+25	2.4522	0.20					V
16+30	2.4536	0.20					V
16+35	2.4547	0.15					V
16+40	2.4552	0.08					V
16+45	2.4557	0.07					V
16+50	2.4561	0.06					V
16+55	2.4565	0.06					V
17+ 0	2.4569	0.06					V
17+ 5	2.4581	0.18					V
17+10	2.4605	0.35					V
17+15	2.4632	0.39					V
17+20	2.4660	0.40					V
17+25	2.4688	0.42					V
17+30	2.4717	0.42					V
17+35	2.4746	0.42					V
17+40	2.4776	0.42					V
17+45	2.4805	0.43					V
17+50	2.4830	0.36					V
17+55	2.4849	0.28					V
18+ 0	2.4868	0.26					V
18+ 5	2.4885	0.26					V
18+10	2.4903	0.25					V
18+15	2.4920	0.26					V
18+20	2.4938	0.26					V
18+25	2.4956	0.26					V
18+30	2.4974	0.26					V
18+35	2.4988	0.20					V
18+40	2.4996	0.12					V
18+45	2.5003	0.10					V
18+50	2.5008	0.07					V
18+55	2.5011	0.05					V
19+ 0	2.5014	0.04					V
19+ 5	2.5018	0.06					V
19+10	2.5024	0.09					V
19+15	2.5031	0.09					V
19+20	2.5042	0.17					V
19+25	2.5060	0.26					V
19+30	2.5079	0.28					V
19+35	2.5094	0.22					V

19+40	2.5104	0.14	Q				V
19+45	2.5112	0.12	Q				V
19+50	2.5118	0.09	Q				V
19+55	2.5122	0.05	Q				V
20+ 0	2.5125	0.04	Q				V
20+ 5	2.5130	0.07	Q				V
20+10	2.5137	0.11	Q				V
20+15	2.5145	0.12	Q				V
20+20	2.5153	0.12	Q				V
20+25	2.5162	0.13	Q				V
20+30	2.5171	0.13	Q				V
20+35	2.5180	0.13	Q				V
20+40	2.5189	0.13	Q				V
20+45	2.5198	0.13	Q				V
20+50	2.5205	0.10	Q				V
20+55	2.5209	0.05	Q				V
21+ 0	2.5212	0.04	Q				V
21+ 5	2.5217	0.08	Q				V
21+10	2.5226	0.12	Q				V
21+15	2.5235	0.14	Q				V
21+20	2.5242	0.10	Q				V
21+25	2.5246	0.06	Q				V
21+30	2.5249	0.04	Q				V
21+35	2.5255	0.08	Q				V
21+40	2.5264	0.13	Q				V
21+45	2.5274	0.14	Q				V
21+50	2.5281	0.11	Q				V
21+55	2.5285	0.06	Q				V
22+ 0	2.5288	0.05	Q				V
22+ 5	2.5294	0.08	Q				V
22+10	2.5304	0.14	Q				V
22+15	2.5314	0.15	Q				V
22+20	2.5322	0.11	Q				V
22+25	2.5326	0.06	Q				V
22+30	2.5329	0.05	Q				V
22+35	2.5332	0.04	Q				V
22+40	2.5335	0.04	Q				V
22+45	2.5337	0.04	Q				V
22+50	2.5340	0.04	Q				V
22+55	2.5342	0.04	Q				V
23+ 0	2.5345	0.04	Q				V
23+ 5	2.5347	0.04	Q				V
23+10	2.5350	0.04	Q				V
23+15	2.5353	0.04	Q				V
23+20	2.5355	0.04	Q				V
23+25	2.5358	0.04	Q				V
23+30	2.5360	0.04	Q				V
23+35	2.5363	0.04	Q				V
23+40	2.5365	0.04	Q				V
23+45	2.5368	0.04	Q				V

23+50	2.5370	0.04	Q				V
23+55	2.5373	0.04	Q				V
24+ 0	2.5376	0.04	Q				V
24+ 5	2.5377	0.02	Q				V
24+10	2.5378	0.01	Q				V
24+15	2.5378	0.00	Q				V
24+20	2.5378	0.00	Q				V

DMA 1 Proposed 2-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-1HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

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

6.58 0.48 3.16

100 YEAR Area rainfall data:

Area(Ac.)[1] Rainfall(In)[2] Weighting[1*2]
6.58 1.25 8.22

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.480(In)
Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.480(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 0.480(In)

Sub-Area Data:

Area(Ac.) Runoff Index Impervious %
6.578 69.00 0.862
Total Area Entered = 6.58(Ac.)

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
Minimum soil loss rate ((In/Hr)) = 0.064
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.210

Slope of intensity-duration curve for a 1 hour storm =0.4800

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph	
(hrs)		Graph %	(CFS)	
1	0.083	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

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 Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA1Q100UH32.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-3HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
6.58	0.80	5.26

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.95	12.83

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

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

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
 Minimum soil loss rate ((In/Hr)) = 0.064
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

 Peak flow rate of this hydrograph = 4.029(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	2.5	5.0	7.5	10.0
0+ 5	0.0023	0.34	VQ				
0+10	0.0064	0.60	V Q				
0+15	0.0105	0.59	VQ				
0+20	0.0151	0.67	VQ				
0+25	0.0202	0.74	Q				
0+30	0.0259	0.83	VQ				
0+35	0.0315	0.81	Q				
0+40	0.0373	0.84	QV				
0+45	0.0434	0.90	QV				
0+50	0.0491	0.83	Q V				
0+55	0.0546	0.79	Q V				
1+ 0	0.0605	0.85	Q V				
1+ 5	0.0674	1.00	Q V				
1+10	0.0748	1.09	Q V				
1+15	0.0824	1.10	Q V				
1+20	0.0897	1.05	Q V				
1+25	0.0978	1.17	Q V				
1+30	0.1068	1.31	Q V				
1+35	0.1155	1.27	Q V				
1+40	0.1245	1.30	Q V				
1+45	0.1348	1.50	Q V				
1+50	0.1457	1.58	Q V				
1+55	0.1561	1.51	Q V				
2+ 0	0.1664	1.50	Q V				
2+ 5	0.1769	1.53	Q V				
2+10	0.1896	1.84	Q V				
2+15	0.2052	2.27	Q V				
2+20	0.2196	2.08	Q V				
2+25	0.2382	2.70	Q V				
2+30	0.2623	3.50	Q V				
2+35	0.2900	4.03	Q V				
2+40	0.3148	3.59	Q V				
2+45	0.3290	2.07	Q V				
2+50	0.3370	1.15	Q V				
2+55	0.3435	0.95	Q V				
3+ 0	0.3477	0.60	Q V				
3+ 5	0.3490	0.20	Q V				
3+10	0.3493	0.04	Q V				

3+15

0.3493

0.01 Q

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|

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V

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-6HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.11	7.30

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	2.70	17.76

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.110(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.110(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
 Minimum soil loss rate ((In/Hr)) = 0.064
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.067	(0.129)	0.014	0.053
2	0.17	0.60	0.080	(0.129)	0.017	0.063
3	0.25	0.60	0.080	(0.129)	0.017	0.063
4	0.33	0.60	0.080	(0.129)	0.017	0.063
5	0.42	0.60	0.080	(0.129)	0.017	0.063
6	0.50	0.70	0.093	(0.129)	0.020	0.074
7	0.58	0.70	0.093	(0.129)	0.020	0.074
8	0.67	0.70	0.093	(0.129)	0.020	0.074
9	0.75	0.70	0.093	(0.129)	0.020	0.074
10	0.83	0.70	0.093	(0.129)	0.020	0.074
11	0.92	0.70	0.093	(0.129)	0.020	0.074
12	1.00	0.80	0.107	(0.129)	0.022	0.084
13	1.08	0.80	0.107	(0.129)	0.022	0.084
14	1.17	0.80	0.107	(0.129)	0.022	0.084
15	1.25	0.80	0.107	(0.129)	0.022	0.084
16	1.33	0.80	0.107	(0.129)	0.022	0.084
17	1.42	0.80	0.107	(0.129)	0.022	0.084
18	1.50	0.80	0.107	(0.129)	0.022	0.084
19	1.58	0.80	0.107	(0.129)	0.022	0.084
20	1.67	0.80	0.107	(0.129)	0.022	0.084
21	1.75	0.80	0.107	(0.129)	0.022	0.084
22	1.83	0.80	0.107	(0.129)	0.022	0.084
23	1.92	0.80	0.107	(0.129)	0.022	0.084
24	2.00	0.90	0.120	(0.129)	0.025	0.095
25	2.08	0.80	0.107	(0.129)	0.022	0.084
26	2.17	0.90	0.120	(0.129)	0.025	0.095
27	2.25	0.90	0.120	(0.129)	0.025	0.095
28	2.33	0.90	0.120	(0.129)	0.025	0.095
29	2.42	0.90	0.120	(0.129)	0.025	0.095
30	2.50	0.90	0.120	(0.129)	0.025	0.095
31	2.58	0.90	0.120	(0.129)	0.025	0.095
32	2.67	0.90	0.120	(0.129)	0.025	0.095
33	2.75	1.00	0.133	(0.129)	0.028	0.105
34	2.83	1.00	0.133	(0.129)	0.028	0.105
35	2.92	1.00	0.133	(0.129)	0.028	0.105
36	3.00	1.00	0.133	(0.129)	0.028	0.105
37	3.08	1.00	0.133	(0.129)	0.028	0.105
38	3.17	1.10	0.147	(0.129)	0.031	0.116
39	3.25	1.10	0.147	(0.129)	0.031	0.116
40	3.33	1.10	0.147	(0.129)	0.031	0.116
41	3.42	1.20	0.160	(0.129)	0.034	0.126
42	3.50	1.30	0.173	(0.129)	0.036	0.137
43	3.58	1.40	0.186	(0.129)	0.039	0.147
44	3.67	1.40	0.186	(0.129)	0.039	0.147
45	3.75	1.50	0.200	(0.129)	0.042	0.158

0+15	0.0065	0.41	VQ					
0+20	0.0093	0.42	VQ					
0+25	0.0122	0.42	Q					
0+30	0.0154	0.45	Q					
0+35	0.0187	0.48	Q					
0+40	0.0220	0.49	Q					
0+45	0.0254	0.49	QV					
0+50	0.0288	0.49	QV					
0+55	0.0321	0.49	QV					
1+ 0	0.0357	0.52	Q					
1+ 5	0.0395	0.55	QV					
1+10	0.0434	0.56	QV					
1+15	0.0472	0.56	QV					
1+20	0.0511	0.56	Q V					
1+25	0.0549	0.56	Q V					
1+30	0.0588	0.56	Q V					
1+35	0.0626	0.56	Q V					
1+40	0.0665	0.56	Q V					
1+45	0.0703	0.56	Q V					
1+50	0.0741	0.56	Q V					
1+55	0.0780	0.56	Q V					
2+ 0	0.0821	0.59	Q V					
2+ 5	0.0861	0.59	Q V					
2+10	0.0902	0.60	Q V					
2+15	0.0945	0.62	Q V					
2+20	0.0989	0.63	Q V					
2+25	0.1032	0.63	Q V					
2+30	0.1075	0.63	Q V					
2+35	0.1118	0.63	Q V					
2+40	0.1162	0.63	Q V					
2+45	0.1207	0.66	Q V					
2+50	0.1255	0.69	Q V					
2+55	0.1303	0.70	Q V					
3+ 0	0.1351	0.70	Q V					
3+ 5	0.1399	0.70	Q V					
3+10	0.1450	0.73	Q V					
3+15	0.1502	0.76	Q V					
3+20	0.1555	0.77	Q V					
3+25	0.1610	0.80	Q V					
3+30	0.1670	0.87	Q V					
3+35	0.1734	0.94	Q V					
3+40	0.1801	0.97	Q V					
3+45	0.1871	1.01	Q V					
3+50	0.1943	1.04	Q V					
3+55	0.2017	1.08	Q V					
4+ 0	0.2093	1.11	Q V					
4+ 5	0.2173	1.15	Q V					
4+10	0.2257	1.22	Q V					
4+15	0.2345	1.28	Q V					
4+20	0.2438	1.35	Q V					

4+25	0.2536	1.42		Q			V		
4+30	0.2637	1.46		Q			V		
4+35	0.2740	1.50		Q			V		
4+40	0.2848	1.57		Q			V		
4+45	0.2960	1.63		Q			V		
4+50	0.3075	1.67		Q			V		
4+55	0.3193	1.71		Q			V		
5+ 0	0.3315	1.77		Q			V		
5+ 5	0.3452	1.99		Q			V		
5+10	0.3611	2.31		Q		Q	V		
5+15	0.3789	2.58		Q		Q	V		
5+20	0.3982	2.80		Q		Q	V		
5+25	0.4196	3.10		Q		Q	V		
5+30	0.4448	3.67		Q		Q	V		
5+35	0.4627	2.59		Q		Q	V		
5+40	0.4709	1.20		Q		Q	V		
5+45	0.4753	0.63		Q		Q	V		
5+50	0.4782	0.41		Q		Q	V		
5+55	0.4802	0.29		Q		Q	V		
6+ 0	0.4814	0.19		Q		Q	V		
6+ 5	0.4820	0.08		Q		Q	V		
6+10	0.4821	0.01		Q		Q	V		
6+15	0.4821	0.00		Q		Q	V		

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 08/02/22 File: A21626DMA1Q100UH242.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-24HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
6.58	1.90	12.50

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	4.80	31.57

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 1.900(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.900(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
 Minimum soil loss rate ((In/Hr)) = 0.064
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.015	(0.228)	0.003	0.012
2	0.17	0.07	0.015	(0.227)	0.003	0.012
3	0.25	0.07	0.015	(0.226)	0.003	0.012
4	0.33	0.10	0.023	(0.225)	0.005	0.018
5	0.42	0.10	0.023	(0.225)	0.005	0.018
6	0.50	0.10	0.023	(0.224)	0.005	0.018
7	0.58	0.10	0.023	(0.223)	0.005	0.018
8	0.67	0.10	0.023	(0.222)	0.005	0.018
9	0.75	0.10	0.023	(0.221)	0.005	0.018
10	0.83	0.13	0.030	(0.220)	0.006	0.024
11	0.92	0.13	0.030	(0.219)	0.006	0.024
12	1.00	0.13	0.030	(0.219)	0.006	0.024
13	1.08	0.10	0.023	(0.218)	0.005	0.018
14	1.17	0.10	0.023	(0.217)	0.005	0.018
15	1.25	0.10	0.023	(0.216)	0.005	0.018
16	1.33	0.10	0.023	(0.215)	0.005	0.018
17	1.42	0.10	0.023	(0.214)	0.005	0.018
18	1.50	0.10	0.023	(0.213)	0.005	0.018
19	1.58	0.10	0.023	(0.213)	0.005	0.018
20	1.67	0.10	0.023	(0.212)	0.005	0.018
21	1.75	0.10	0.023	(0.211)	0.005	0.018
22	1.83	0.13	0.030	(0.210)	0.006	0.024
23	1.92	0.13	0.030	(0.209)	0.006	0.024
24	2.00	0.13	0.030	(0.208)	0.006	0.024
25	2.08	0.13	0.030	(0.207)	0.006	0.024
26	2.17	0.13	0.030	(0.207)	0.006	0.024
27	2.25	0.13	0.030	(0.206)	0.006	0.024
28	2.33	0.13	0.030	(0.205)	0.006	0.024
29	2.42	0.13	0.030	(0.204)	0.006	0.024
30	2.50	0.13	0.030	(0.203)	0.006	0.024
31	2.58	0.17	0.038	(0.202)	0.008	0.030
32	2.67	0.17	0.038	(0.202)	0.008	0.030
33	2.75	0.17	0.038	(0.201)	0.008	0.030
34	2.83	0.17	0.038	(0.200)	0.008	0.030
35	2.92	0.17	0.038	(0.199)	0.008	0.030
36	3.00	0.17	0.038	(0.198)	0.008	0.030
37	3.08	0.17	0.038	(0.197)	0.008	0.030
38	3.17	0.17	0.038	(0.197)	0.008	0.030
39	3.25	0.17	0.038	(0.196)	0.008	0.030
40	3.33	0.17	0.038	(0.195)	0.008	0.030
41	3.42	0.17	0.038	(0.194)	0.008	0.030
42	3.50	0.17	0.038	(0.193)	0.008	0.030
43	3.58	0.17	0.038	(0.193)	0.008	0.030
44	3.67	0.17	0.038	(0.192)	0.008	0.030
45	3.75	0.17	0.038	(0.191)	0.008	0.030

46	3.83	0.20	0.046	(0.190)	0.010	0.036
47	3.92	0.20	0.046	(0.189)	0.010	0.036
48	4.00	0.20	0.046	(0.189)	0.010	0.036
49	4.08	0.20	0.046	(0.188)	0.010	0.036
50	4.17	0.20	0.046	(0.187)	0.010	0.036
51	4.25	0.20	0.046	(0.186)	0.010	0.036
52	4.33	0.23	0.053	(0.185)	0.011	0.042
53	4.42	0.23	0.053	(0.185)	0.011	0.042
54	4.50	0.23	0.053	(0.184)	0.011	0.042
55	4.58	0.23	0.053	(0.183)	0.011	0.042
56	4.67	0.23	0.053	(0.182)	0.011	0.042
57	4.75	0.23	0.053	(0.181)	0.011	0.042
58	4.83	0.27	0.061	(0.181)	0.013	0.048
59	4.92	0.27	0.061	(0.180)	0.013	0.048
60	5.00	0.27	0.061	(0.179)	0.013	0.048
61	5.08	0.20	0.046	(0.178)	0.010	0.036
62	5.17	0.20	0.046	(0.178)	0.010	0.036
63	5.25	0.20	0.046	(0.177)	0.010	0.036
64	5.33	0.23	0.053	(0.176)	0.011	0.042
65	5.42	0.23	0.053	(0.175)	0.011	0.042
66	5.50	0.23	0.053	(0.174)	0.011	0.042
67	5.58	0.27	0.061	(0.174)	0.013	0.048
68	5.67	0.27	0.061	(0.173)	0.013	0.048
69	5.75	0.27	0.061	(0.172)	0.013	0.048
70	5.83	0.27	0.061	(0.171)	0.013	0.048
71	5.92	0.27	0.061	(0.171)	0.013	0.048
72	6.00	0.27	0.061	(0.170)	0.013	0.048
73	6.08	0.30	0.068	(0.169)	0.014	0.054
74	6.17	0.30	0.068	(0.168)	0.014	0.054
75	6.25	0.30	0.068	(0.168)	0.014	0.054
76	6.33	0.30	0.068	(0.167)	0.014	0.054
77	6.42	0.30	0.068	(0.166)	0.014	0.054
78	6.50	0.30	0.068	(0.165)	0.014	0.054
79	6.58	0.33	0.076	(0.165)	0.016	0.060
80	6.67	0.33	0.076	(0.164)	0.016	0.060
81	6.75	0.33	0.076	(0.163)	0.016	0.060
82	6.83	0.33	0.076	(0.162)	0.016	0.060
83	6.92	0.33	0.076	(0.162)	0.016	0.060
84	7.00	0.33	0.076	(0.161)	0.016	0.060
85	7.08	0.33	0.076	(0.160)	0.016	0.060
86	7.17	0.33	0.076	(0.159)	0.016	0.060
87	7.25	0.33	0.076	(0.159)	0.016	0.060
88	7.33	0.37	0.084	(0.158)	0.018	0.066
89	7.42	0.37	0.084	(0.157)	0.018	0.066
90	7.50	0.37	0.084	(0.157)	0.018	0.066
91	7.58	0.40	0.091	(0.156)	0.019	0.072
92	7.67	0.40	0.091	(0.155)	0.019	0.072
93	7.75	0.40	0.091	(0.154)	0.019	0.072
94	7.83	0.43	0.099	(0.154)	0.021	0.078
95	7.92	0.43	0.099	(0.153)	0.021	0.078

96	8.00	0.43	0.099	(0.152)	0.021	0.078
97	8.08	0.50	0.114	(0.152)	0.024	0.090
98	8.17	0.50	0.114	(0.151)	0.024	0.090
99	8.25	0.50	0.114	(0.150)	0.024	0.090
100	8.33	0.50	0.114	(0.149)	0.024	0.090
101	8.42	0.50	0.114	(0.149)	0.024	0.090
102	8.50	0.50	0.114	(0.148)	0.024	0.090
103	8.58	0.53	0.122	(0.147)	0.026	0.096
104	8.67	0.53	0.122	(0.147)	0.026	0.096
105	8.75	0.53	0.122	(0.146)	0.026	0.096
106	8.83	0.57	0.129	(0.145)	0.027	0.102
107	8.92	0.57	0.129	(0.145)	0.027	0.102
108	9.00	0.57	0.129	(0.144)	0.027	0.102
109	9.08	0.63	0.144	(0.143)	0.030	0.114
110	9.17	0.63	0.144	(0.143)	0.030	0.114
111	9.25	0.63	0.144	(0.142)	0.030	0.114
112	9.33	0.67	0.152	(0.141)	0.032	0.120
113	9.42	0.67	0.152	(0.141)	0.032	0.120
114	9.50	0.67	0.152	(0.140)	0.032	0.120
115	9.58	0.70	0.160	(0.139)	0.034	0.126
116	9.67	0.70	0.160	(0.139)	0.034	0.126
117	9.75	0.70	0.160	(0.138)	0.034	0.126
118	9.83	0.73	0.167	(0.137)	0.035	0.132
119	9.92	0.73	0.167	(0.137)	0.035	0.132
120	10.00	0.73	0.167	(0.136)	0.035	0.132
121	10.08	0.50	0.114	(0.135)	0.024	0.090
122	10.17	0.50	0.114	(0.135)	0.024	0.090
123	10.25	0.50	0.114	(0.134)	0.024	0.090
124	10.33	0.50	0.114	(0.133)	0.024	0.090
125	10.42	0.50	0.114	(0.133)	0.024	0.090
126	10.50	0.50	0.114	(0.132)	0.024	0.090
127	10.58	0.67	0.152	(0.131)	0.032	0.120
128	10.67	0.67	0.152	(0.131)	0.032	0.120
129	10.75	0.67	0.152	(0.130)	0.032	0.120
130	10.83	0.67	0.152	(0.129)	0.032	0.120
131	10.92	0.67	0.152	(0.129)	0.032	0.120
132	11.00	0.67	0.152	(0.128)	0.032	0.120
133	11.08	0.63	0.144	(0.128)	0.030	0.114
134	11.17	0.63	0.144	(0.127)	0.030	0.114
135	11.25	0.63	0.144	(0.126)	0.030	0.114
136	11.33	0.63	0.144	(0.126)	0.030	0.114
137	11.42	0.63	0.144	(0.125)	0.030	0.114
138	11.50	0.63	0.144	(0.124)	0.030	0.114
139	11.58	0.57	0.129	(0.124)	0.027	0.102
140	11.67	0.57	0.129	(0.123)	0.027	0.102
141	11.75	0.57	0.129	(0.123)	0.027	0.102
142	11.83	0.60	0.137	(0.122)	0.029	0.108
143	11.92	0.60	0.137	(0.121)	0.029	0.108
144	12.00	0.60	0.137	(0.121)	0.029	0.108
145	12.08	0.83	0.190	(0.120)	0.040	0.150

146	12.17	0.83	0.190	(0.120)	0.040	0.150
147	12.25	0.83	0.190	(0.119)	0.040	0.150
148	12.33	0.87	0.198	(0.118)	0.041	0.156
149	12.42	0.87	0.198	(0.118)	0.041	0.156
150	12.50	0.87	0.198	(0.117)	0.041	0.156
151	12.58	0.93	0.213	(0.117)	0.045	0.168
152	12.67	0.93	0.213	(0.116)	0.045	0.168
153	12.75	0.93	0.213	(0.115)	0.045	0.168
154	12.83	0.97	0.220	(0.115)	0.046	0.174
155	12.92	0.97	0.220	(0.114)	0.046	0.174
156	13.00	0.97	0.220	(0.114)	0.046	0.174
157	13.08	1.13	0.258	(0.113)	0.054	0.204
158	13.17	1.13	0.258	(0.112)	0.054	0.204
159	13.25	1.13	0.258	(0.112)	0.054	0.204
160	13.33	1.13	0.258	(0.111)	0.054	0.204
161	13.42	1.13	0.258	(0.111)	0.054	0.204
162	13.50	1.13	0.258	(0.110)	0.054	0.204
163	13.58	0.77	0.175	(0.110)	0.037	0.138
164	13.67	0.77	0.175	(0.109)	0.037	0.138
165	13.75	0.77	0.175	(0.109)	0.037	0.138
166	13.83	0.77	0.175	(0.108)	0.037	0.138
167	13.92	0.77	0.175	(0.107)	0.037	0.138
168	14.00	0.77	0.175	(0.107)	0.037	0.138
169	14.08	0.90	0.205	(0.106)	0.043	0.162
170	14.17	0.90	0.205	(0.106)	0.043	0.162
171	14.25	0.90	0.205	(0.105)	0.043	0.162
172	14.33	0.87	0.198	(0.105)	0.041	0.156
173	14.42	0.87	0.198	(0.104)	0.041	0.156
174	14.50	0.87	0.198	(0.104)	0.041	0.156
175	14.58	0.87	0.198	(0.103)	0.041	0.156
176	14.67	0.87	0.198	(0.103)	0.041	0.156
177	14.75	0.87	0.198	(0.102)	0.041	0.156
178	14.83	0.83	0.190	(0.102)	0.040	0.150
179	14.92	0.83	0.190	(0.101)	0.040	0.150
180	15.00	0.83	0.190	(0.101)	0.040	0.150
181	15.08	0.80	0.182	(0.100)	0.038	0.144
182	15.17	0.80	0.182	(0.099)	0.038	0.144
183	15.25	0.80	0.182	(0.099)	0.038	0.144
184	15.33	0.77	0.175	(0.098)	0.037	0.138
185	15.42	0.77	0.175	(0.098)	0.037	0.138
186	15.50	0.77	0.175	(0.097)	0.037	0.138
187	15.58	0.63	0.144	(0.097)	0.030	0.114
188	15.67	0.63	0.144	(0.096)	0.030	0.114
189	15.75	0.63	0.144	(0.096)	0.030	0.114
190	15.83	0.63	0.144	(0.095)	0.030	0.114
191	15.92	0.63	0.144	(0.095)	0.030	0.114
192	16.00	0.63	0.144	(0.094)	0.030	0.114
193	16.08	0.13	0.030	(0.094)	0.006	0.024
194	16.17	0.13	0.030	(0.094)	0.006	0.024
195	16.25	0.13	0.030	(0.093)	0.006	0.024

196	16.33	0.13	0.030	(0.093)	0.006	0.024
197	16.42	0.13	0.030	(0.092)	0.006	0.024
198	16.50	0.13	0.030	(0.092)	0.006	0.024
199	16.58	0.10	0.023	(0.091)	0.005	0.018
200	16.67	0.10	0.023	(0.091)	0.005	0.018
201	16.75	0.10	0.023	(0.090)	0.005	0.018
202	16.83	0.10	0.023	(0.090)	0.005	0.018
203	16.92	0.10	0.023	(0.089)	0.005	0.018
204	17.00	0.10	0.023	(0.089)	0.005	0.018
205	17.08	0.17	0.038	(0.088)	0.008	0.030
206	17.17	0.17	0.038	(0.088)	0.008	0.030
207	17.25	0.17	0.038	(0.088)	0.008	0.030
208	17.33	0.17	0.038	(0.087)	0.008	0.030
209	17.42	0.17	0.038	(0.087)	0.008	0.030
210	17.50	0.17	0.038	(0.086)	0.008	0.030
211	17.58	0.17	0.038	(0.086)	0.008	0.030
212	17.67	0.17	0.038	(0.085)	0.008	0.030
213	17.75	0.17	0.038	(0.085)	0.008	0.030
214	17.83	0.13	0.030	(0.085)	0.006	0.024
215	17.92	0.13	0.030	(0.084)	0.006	0.024
216	18.00	0.13	0.030	(0.084)	0.006	0.024
217	18.08	0.13	0.030	(0.083)	0.006	0.024
218	18.17	0.13	0.030	(0.083)	0.006	0.024
219	18.25	0.13	0.030	(0.082)	0.006	0.024
220	18.33	0.13	0.030	(0.082)	0.006	0.024
221	18.42	0.13	0.030	(0.082)	0.006	0.024
222	18.50	0.13	0.030	(0.081)	0.006	0.024
223	18.58	0.10	0.023	(0.081)	0.005	0.018
224	18.67	0.10	0.023	(0.080)	0.005	0.018
225	18.75	0.10	0.023	(0.080)	0.005	0.018
226	18.83	0.07	0.015	(0.080)	0.003	0.012
227	18.92	0.07	0.015	(0.079)	0.003	0.012
228	19.00	0.07	0.015	(0.079)	0.003	0.012
229	19.08	0.10	0.023	(0.079)	0.005	0.018
230	19.17	0.10	0.023	(0.078)	0.005	0.018
231	19.25	0.10	0.023	(0.078)	0.005	0.018
232	19.33	0.13	0.030	(0.077)	0.006	0.024
233	19.42	0.13	0.030	(0.077)	0.006	0.024
234	19.50	0.13	0.030	(0.077)	0.006	0.024
235	19.58	0.10	0.023	(0.076)	0.005	0.018
236	19.67	0.10	0.023	(0.076)	0.005	0.018
237	19.75	0.10	0.023	(0.076)	0.005	0.018
238	19.83	0.07	0.015	(0.075)	0.003	0.012
239	19.92	0.07	0.015	(0.075)	0.003	0.012
240	20.00	0.07	0.015	(0.075)	0.003	0.012
241	20.08	0.10	0.023	(0.074)	0.005	0.018
242	20.17	0.10	0.023	(0.074)	0.005	0.018
243	20.25	0.10	0.023	(0.074)	0.005	0.018
244	20.33	0.10	0.023	(0.073)	0.005	0.018
245	20.42	0.10	0.023	(0.073)	0.005	0.018

Flood volume = 35840.6 Cubic Feet
 Total soil loss = 9527.3 Cubic Feet

 Peak flow rate of this hydrograph = 1.354(CFS)

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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	0.0003	0.04	Q				
0+10	0.0008	0.07	Q				
0+15	0.0013	0.08	Q				
0+20	0.0020	0.10	Q				
0+25	0.0028	0.12	Q				
0+30	0.0036	0.12	Q				
0+35	0.0044	0.12	Q				
0+40	0.0053	0.12	Q				
0+45	0.0061	0.12	Q				
0+50	0.0071	0.14	Q				
0+55	0.0081	0.16	Q				
1+ 0	0.0092	0.16	Q				
1+ 5	0.0102	0.14	Q				
1+10	0.0110	0.12	Q				
1+15	0.0119	0.12	Q				
1+20	0.0127	0.12	Q				
1+25	0.0135	0.12	Q				
1+30	0.0143	0.12	Q				
1+35	0.0151	0.12	Q				
1+40	0.0160	0.12	Q				
1+45	0.0168	0.12	Q				
1+50	0.0178	0.14	Q				
1+55	0.0188	0.16	Q				
2+ 0	0.0199	0.16	Q				
2+ 5	0.0210	0.16	QV				
2+10	0.0221	0.16	QV				
2+15	0.0232	0.16	QV				
2+20	0.0243	0.16	QV				
2+25	0.0254	0.16	QV				
2+30	0.0265	0.16	QV				
2+35	0.0277	0.18	QV				
2+40	0.0291	0.20	QV				
2+45	0.0305	0.20	QV				
2+50	0.0318	0.20	QV				
2+55	0.0332	0.20	QV				
3+ 0	0.0346	0.20	QV				

3+ 5	0.0359	0.20	QV
3+10	0.0373	0.20	QV
3+15	0.0387	0.20	QV
3+20	0.0401	0.20	QV
3+25	0.0414	0.20	Q V
3+30	0.0428	0.20	Q V
3+35	0.0442	0.20	Q V
3+40	0.0455	0.20	Q V
3+45	0.0469	0.20	Q V
3+50	0.0484	0.22	Q V
3+55	0.0500	0.24	Q V
4+ 0	0.0517	0.24	Q V
4+ 5	0.0533	0.24	Q V
4+10	0.0550	0.24	Q V
4+15	0.0566	0.24	Q V
4+20	0.0584	0.26	QV
4+25	0.0603	0.28	QV
4+30	0.0622	0.28	Q V
4+35	0.0641	0.28	Q V
4+40	0.0661	0.28	Q V
4+45	0.0680	0.28	Q V
4+50	0.0700	0.30	Q V
4+55	0.0722	0.32	Q V
5+ 0	0.0744	0.32	Q V
5+ 5	0.0763	0.28	Q V
5+10	0.0780	0.25	Q V
5+15	0.0797	0.24	Q V
5+20	0.0814	0.26	Q V
5+25	0.0833	0.28	Q V
5+30	0.0853	0.28	Q V
5+35	0.0873	0.30	Q V
5+40	0.0895	0.32	Q V
5+45	0.0917	0.32	Q V
5+50	0.0939	0.32	Q V
5+55	0.0961	0.32	Q V
6+ 0	0.0983	0.32	Q V
6+ 5	0.1006	0.34	Q V
6+10	0.1030	0.35	Q V
6+15	0.1055	0.36	Q V
6+20	0.1080	0.36	Q V
6+25	0.1104	0.36	Q V
6+30	0.1129	0.36	Q V
6+35	0.1155	0.38	Q V
6+40	0.1182	0.39	Q V
6+45	0.1210	0.40	Q V
6+50	0.1237	0.40	Q V
6+55	0.1265	0.40	Q V
7+ 0	0.1292	0.40	Q V
7+ 5	0.1319	0.40	Q V
7+10	0.1347	0.40	Q V

7+15	0.1374	0.40	Q	V				
7+20	0.1403	0.42	Q	V				
7+25	0.1433	0.43	Q	V				
7+30	0.1463	0.44	Q	V				
7+35	0.1495	0.46	Q	V				
7+40	0.1527	0.47	Q	V				
7+45	0.1560	0.48	Q	V				
7+50	0.1595	0.50	Q	V				
7+55	0.1630	0.51	Q	V				
8+ 0	0.1666	0.52	Q	V				
8+ 5	0.1704	0.56	Q	V				
8+10	0.1745	0.59	Q	V				
8+15	0.1786	0.60	Q	V				
8+20	0.1827	0.60	Q	V				
8+25	0.1868	0.60	Q	V				
8+30	0.1909	0.60	Q	V				
8+35	0.1952	0.62	Q	V				
8+40	0.1995	0.63	Q	V				
8+45	0.2039	0.64	Q	V				
8+50	0.2084	0.66	Q	V				
8+55	0.2131	0.67	Q	V				
9+ 0	0.2177	0.68	Q	V				
9+ 5	0.2227	0.72	Q	V				
9+10	0.2278	0.75	Q	V				
9+15	0.2330	0.76	Q	V				
9+20	0.2384	0.78	Q	V				
9+25	0.2439	0.79	Q	V				
9+30	0.2493	0.80	Q	V				
9+35	0.2550	0.82	Q	V				
9+40	0.2607	0.83	Q	V				
9+45	0.2665	0.84	Q	V				
9+50	0.2724	0.86	Q	V				
9+55	0.2784	0.87	Q	V				
10+ 0	0.2844	0.88	Q	V				
10+ 5	0.2894	0.73	Q	V				
10+10	0.2937	0.62	Q	V				
10+15	0.2979	0.60	Q	V				
10+20	0.3020	0.60	Q	V				
10+25	0.3061	0.60	Q	V				
10+30	0.3102	0.60	Q	V				
10+35	0.3150	0.70	Q	V				
10+40	0.3204	0.78	Q	V				
10+45	0.3259	0.79	Q	V				
10+50	0.3313	0.80	Q	V				
10+55	0.3368	0.80	Q	V				
11+ 0	0.3423	0.80	Q	V				
11+ 5	0.3477	0.78	Q	V				
11+10	0.3529	0.76	Q	V				
11+15	0.3581	0.76	Q	V				
11+20	0.3633	0.76	Q	V				

11+25	0.3685	0.76	Q	V		
11+30	0.3737	0.76	Q	V		
11+35	0.3787	0.72	Q	V		
11+40	0.3834	0.68	Q	V		
11+45	0.3881	0.68	Q	V		
11+50	0.3929	0.70	Q	V		
11+55	0.3978	0.71	Q	V		
12+ 0	0.4027	0.72	Q	V		
12+ 5	0.4086	0.86	Q	V		
12+10	0.4153	0.97	Q	V		
12+15	0.4221	0.99	Q	V		
12+20	0.4291	1.02	Q	V		
12+25	0.4362	1.03	Q	V		
12+30	0.4434	1.03	Q	V		
12+35	0.4508	1.08	Q	V		
12+40	0.4584	1.11	Q	V		
12+45	0.4661	1.11	Q	V		
12+50	0.4739	1.14	Q	V		
12+55	0.4818	1.15	Q	V		
13+ 0	0.4898	1.15	Q	V		
13+ 5	0.4984	1.26	Q	V		
13+10	0.5076	1.34	Q	V		
13+15	0.5169	1.35	Q	V		
13+20	0.5263	1.35	Q	V		
13+25	0.5356	1.35	Q	V		
13+30	0.5449	1.35	Q	V		
13+35	0.5527	1.13	Q	V		
13+40	0.5593	0.95	Q	V		
13+45	0.5656	0.92	Q	V		
13+50	0.5719	0.92	Q	V		
13+55	0.5782	0.92	Q	V		
14+ 0	0.5846	0.92	Q	V		
14+ 5	0.5914	1.00	Q	V		
14+10	0.5987	1.06	Q	V		
14+15	0.6061	1.07	Q	V		
14+20	0.6134	1.05	Q	V		
14+25	0.6205	1.04	Q	V		
14+30	0.6277	1.04	Q	V		
14+35	0.6348	1.04	Q	V		
14+40	0.6419	1.04	Q	V		
14+45	0.6491	1.04	Q	V		
14+50	0.6561	1.01	Q	V		
14+55	0.6629	1.00	Q	V		
15+ 0	0.6698	1.00	Q	V		
15+ 5	0.6765	0.98	Q	V		
15+10	0.6831	0.96	Q	V		
15+15	0.6897	0.96	Q	V		
15+20	0.6961	0.94	Q	V		
15+25	0.7025	0.92	Q	V		
15+30	0.7088	0.92	Q	V		

15+35	0.7145	0.83	Q	V
15+40	0.7198	0.77	Q	V
15+45	0.7251	0.76	Q	V
15+50	0.7303	0.76	Q	V
15+55	0.7355	0.76	Q	V
16+ 0	0.7407	0.76	Q	V
16+ 5	0.7438	0.45	Q	V
16+10	0.7453	0.21	Q	V
16+15	0.7464	0.17	Q	V
16+20	0.7475	0.16	Q	V
16+25	0.7486	0.16	Q	V
16+30	0.7497	0.16	Q	V
16+35	0.7507	0.14	Q	V
16+40	0.7515	0.12	Q	V
16+45	0.7524	0.12	Q	V
16+50	0.7532	0.12	Q	V
16+55	0.7540	0.12	Q	V
17+ 0	0.7548	0.12	Q	V
17+ 5	0.7559	0.16	Q	V
17+10	0.7573	0.19	Q	V
17+15	0.7586	0.20	Q	V
17+20	0.7600	0.20	Q	V
17+25	0.7614	0.20	Q	V
17+30	0.7627	0.20	Q	V
17+35	0.7641	0.20	Q	V
17+40	0.7655	0.20	Q	V
17+45	0.7668	0.20	Q	V
17+50	0.7681	0.18	Q	V
17+55	0.7692	0.16	Q	V
18+ 0	0.7703	0.16	Q	V
18+ 5	0.7714	0.16	Q	V
18+10	0.7725	0.16	Q	V
18+15	0.7736	0.16	Q	V
18+20	0.7747	0.16	Q	V
18+25	0.7758	0.16	Q	V
18+30	0.7769	0.16	Q	V
18+35	0.7778	0.14	Q	V
18+40	0.7787	0.12	Q	V
18+45	0.7795	0.12	Q	V
18+50	0.7802	0.10	Q	V
18+55	0.7808	0.08	Q	V
19+ 0	0.7813	0.08	Q	V
19+ 5	0.7820	0.10	Q	V
19+10	0.7828	0.12	Q	V
19+15	0.7836	0.12	Q	V
19+20	0.7846	0.14	Q	V
19+25	0.7857	0.16	Q	V
19+30	0.7868	0.16	Q	V
19+35	0.7877	0.14	Q	V
19+40	0.7886	0.12	Q	V

19+45	0.7894	0.12	Q				V
19+50	0.7901	0.10	Q				V
19+55	0.7906	0.08	Q				V
20+ 0	0.7912	0.08	Q				V
20+ 5	0.7919	0.10	Q				V
20+10	0.7927	0.12	Q				V
20+15	0.7935	0.12	Q				V
20+20	0.7943	0.12	Q				V
20+25	0.7951	0.12	Q				V
20+30	0.7960	0.12	Q				V
20+35	0.7968	0.12	Q				V
20+40	0.7976	0.12	Q				V
20+45	0.7984	0.12	Q				V
20+50	0.7991	0.10	Q				V
20+55	0.7997	0.08	Q				V
21+ 0	0.8002	0.08	Q				V
21+ 5	0.8009	0.10	Q				V
21+10	0.8017	0.12	Q				V
21+15	0.8026	0.12	Q				V
21+20	0.8032	0.10	Q				V
21+25	0.8038	0.08	Q				V
21+30	0.8044	0.08	Q				V
21+35	0.8051	0.10	Q				V
21+40	0.8058	0.12	Q				V
21+45	0.8067	0.12	Q				V
21+50	0.8073	0.10	Q				V
21+55	0.8079	0.08	Q				V
22+ 0	0.8085	0.08	Q				V
22+ 5	0.8092	0.10	Q				V
22+10	0.8100	0.12	Q				V
22+15	0.8108	0.12	Q				V
22+20	0.8115	0.10	Q				V
22+25	0.8120	0.08	Q				V
22+30	0.8126	0.08	Q				V
22+35	0.8131	0.08	Q				V
22+40	0.8137	0.08	Q				V
22+45	0.8142	0.08	Q				V
22+50	0.8148	0.08	Q				V
22+55	0.8153	0.08	Q				V
23+ 0	0.8159	0.08	Q				V
23+ 5	0.8164	0.08	Q				V
23+10	0.8170	0.08	Q				V
23+15	0.8175	0.08	Q				V
23+20	0.8181	0.08	Q				V
23+25	0.8186	0.08	Q				V
23+30	0.8192	0.08	Q				V
23+35	0.8197	0.08	Q				V
23+40	0.8203	0.08	Q				V
23+45	0.8208	0.08	Q				V
23+50	0.8214	0.08	Q				V

23+55	0.8219	0.08	Q				V
24+ 0	0.8225	0.08	Q				V
24+ 5	0.8227	0.04	Q				V
24+10	0.8228	0.01	Q				V
24+15	0.8228	0.00	Q				V

DMA 1 Proposed 5-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-1HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	0.48	3.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.25	8.22

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.660(In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 0.660(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
 Minimum soil loss rate ((In/Hr)) = 0.064
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

0+55	0.2712	7.19				Q		V	
1+ 0	0.2942	3.34				Q			V
1+ 5	0.3030	1.28		Q					V
1+10	0.3044	0.20	Q						V
1+15	0.3047	0.04	Q						V

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-3HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
 6.58 0.80 5.26

100 YEAR Area rainfall data:

Area(Ac.)[1] Rainfall(In)[2] Weighting[1*2]
 6.58 1.95 12.83

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.069(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.069(In)

Sub-Area Data:

Area(Ac.) Runoff Index Impervious %
 6.578 69.00 0.862
 Total Area Entered = 6.58(Ac.)

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
 Minimum soil loss rate ((In/Hr)) = 0.064
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	253.789	51.385
2	0.167	507.577	39.821
3	0.250	761.366	6.897
4	0.333	1015.155	1.897
		Sum = 100.000	Sum= 6.629

 Peak flow rate of this hydrograph = 5.667(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	2.5	5.0	7.5	10.0
0+ 5	0.0031	0.45	VQ				
0+10	0.0086	0.80	V Q				
0+15	0.0140	0.79	V Q				
0+20	0.0201	0.89	V Q				
0+25	0.0269	0.99	VQ				
0+30	0.0346	1.11	V Q				
0+35	0.0421	1.09	VQ				
0+40	0.0498	1.13	Q				
0+45	0.0581	1.20	Q				
0+50	0.0657	1.10	QV				
0+55	0.0730	1.06	Q V				
1+ 0	0.0808	1.14	Q V				
1+ 5	0.0900	1.34	Q V				
1+10	0.1000	1.45	Q V				
1+15	0.1102	1.47	Q V				
1+20	0.1199	1.41	Q V				
1+25	0.1307	1.56	Q V				
1+30	0.1427	1.75	Q V				
1+35	0.1544	1.70	Q V				
1+40	0.1664	1.73	Q V				
1+45	0.1802	2.01	Q V				
1+50	0.1947	2.11	Q V				
1+55	0.2086	2.02	Q V				
2+ 0	0.2224	2.00	Q V				
2+ 5	0.2365	2.05	Q V				
2+10	0.2534	2.46	Q V				
2+15	0.2745	3.05	Q V				
2+20	0.2937	2.80	Q V				
2+25	0.3196	3.76	Q V				
2+30	0.3537	4.95	Q V				
2+35	0.3927	5.67	Q V				
2+40	0.4275	5.04	Q V				
2+45	0.4473	2.87	Q V				
2+50	0.4580	1.56	Q V				
2+55	0.4668	1.28	Q V				
3+ 0	0.4723	0.80	Q V				
3+ 5	0.4741	0.27	Q V				
3+10	0.4745	0.05	Q V				

3+15

0.4746

0.01 Q

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V

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-6HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.11	7.30

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	2.70	17.76

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.482(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.482(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
 Minimum soil loss rate ((In/Hr)) = 0.064
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.089	(0.129)	0.019	0.070
2	0.17	0.60	0.107	(0.129)	0.022	0.084
3	0.25	0.60	0.107	(0.129)	0.022	0.084
4	0.33	0.60	0.107	(0.129)	0.022	0.084
5	0.42	0.60	0.107	(0.129)	0.022	0.084
6	0.50	0.70	0.125	(0.129)	0.026	0.098
7	0.58	0.70	0.125	(0.129)	0.026	0.098
8	0.67	0.70	0.125	(0.129)	0.026	0.098
9	0.75	0.70	0.125	(0.129)	0.026	0.098
10	0.83	0.70	0.125	(0.129)	0.026	0.098
11	0.92	0.70	0.125	(0.129)	0.026	0.098
12	1.00	0.80	0.142	(0.129)	0.030	0.112
13	1.08	0.80	0.142	(0.129)	0.030	0.112
14	1.17	0.80	0.142	(0.129)	0.030	0.112
15	1.25	0.80	0.142	(0.129)	0.030	0.112
16	1.33	0.80	0.142	(0.129)	0.030	0.112
17	1.42	0.80	0.142	(0.129)	0.030	0.112
18	1.50	0.80	0.142	(0.129)	0.030	0.112
19	1.58	0.80	0.142	(0.129)	0.030	0.112
20	1.67	0.80	0.142	(0.129)	0.030	0.112
21	1.75	0.80	0.142	(0.129)	0.030	0.112
22	1.83	0.80	0.142	(0.129)	0.030	0.112
23	1.92	0.80	0.142	(0.129)	0.030	0.112
24	2.00	0.90	0.160	(0.129)	0.034	0.126
25	2.08	0.80	0.142	(0.129)	0.030	0.112
26	2.17	0.90	0.160	(0.129)	0.034	0.126
27	2.25	0.90	0.160	(0.129)	0.034	0.126
28	2.33	0.90	0.160	(0.129)	0.034	0.126
29	2.42	0.90	0.160	(0.129)	0.034	0.126
30	2.50	0.90	0.160	(0.129)	0.034	0.126
31	2.58	0.90	0.160	(0.129)	0.034	0.126
32	2.67	0.90	0.160	(0.129)	0.034	0.126
33	2.75	1.00	0.178	(0.129)	0.037	0.141
34	2.83	1.00	0.178	(0.129)	0.037	0.141
35	2.92	1.00	0.178	(0.129)	0.037	0.141
36	3.00	1.00	0.178	(0.129)	0.037	0.141
37	3.08	1.00	0.178	(0.129)	0.037	0.141
38	3.17	1.10	0.196	(0.129)	0.041	0.155
39	3.25	1.10	0.196	(0.129)	0.041	0.155
40	3.33	1.10	0.196	(0.129)	0.041	0.155
41	3.42	1.20	0.213	(0.129)	0.045	0.169
42	3.50	1.30	0.231	(0.129)	0.049	0.183
43	3.58	1.40	0.249	(0.129)	0.052	0.197
44	3.67	1.40	0.249	(0.129)	0.052	0.197
45	3.75	1.50	0.267	(0.129)	0.056	0.211

0+15	0.0086	0.54	V Q				
0+20	0.0125	0.56	V Q				
0+25	0.0163	0.56	VQ				
0+30	0.0205	0.61	VQ				
0+35	0.0250	0.64	VQ				
0+40	0.0294	0.65	VQ				
0+45	0.0339	0.65	Q				
0+50	0.0384	0.65	Q				
0+55	0.0429	0.65	Q				
1+ 0	0.0477	0.70	Q				
1+ 5	0.0528	0.74	QV				
1+10	0.0579	0.74	QV				
1+15	0.0631	0.75	QV				
1+20	0.0682	0.75	Q V				
1+25	0.0733	0.75	Q V				
1+30	0.0785	0.75	Q V				
1+35	0.0836	0.75	Q V				
1+40	0.0888	0.75	Q V				
1+45	0.0939	0.75	Q V				
1+50	0.0990	0.75	Q V				
1+55	0.1042	0.75	Q V				
2+ 0	0.1096	0.79	Q V				
2+ 5	0.1150	0.78	Q V				
2+10	0.1205	0.80	Q V				
2+15	0.1263	0.83	Q V				
2+20	0.1320	0.84	Q V				
2+25	0.1378	0.84	Q V				
2+30	0.1436	0.84	Q V				
2+35	0.1494	0.84	Q V				
2+40	0.1551	0.84	Q V				
2+45	0.1612	0.89	Q V				
2+50	0.1676	0.92	Q V				
2+55	0.1740	0.93	Q V				
3+ 0	0.1804	0.93	Q V				
3+ 5	0.1869	0.93	Q V				
3+10	0.1936	0.98	Q V				
3+15	0.2006	1.02	Q V				
3+20	0.2077	1.02	Q V				
3+25	0.2150	1.07	Q V				
3+30	0.2230	1.16	Q V				
3+35	0.2316	1.25	Q V				
3+40	0.2405	1.29	Q V				
3+45	0.2499	1.35	Q V				
3+50	0.2594	1.39	Q V				
3+55	0.2694	1.44	Q V				
4+ 0	0.2796	1.48	Q V				
4+ 5	0.2902	1.54	Q V				
4+10	0.3014	1.62	Q V				
4+15	0.3132	1.72	Q V				
4+20	0.3256	1.81	Q V				

4+25	0.3387	1.90		Q		V		
4+30	0.3522	1.95		Q		V		
4+35	0.3659	2.00		Q		V		
4+40	0.3803	2.09		Q		V		
4+45	0.3954	2.18		Q		V		
4+50	0.4107	2.23		Q		V		
4+55	0.4264	2.28		Q		V		
5+ 0	0.4428	2.37		Q		V		
5+ 5	0.4610	2.65		Q		V		
5+10	0.4824	3.11			Q			
5+15	0.5067	3.52			Q			
5+20	0.5335	3.89			Q			
5+25	0.5635	4.37			Q			
5+30	0.5992	5.18				Q		
5+35	0.6240	3.60			Q			
5+40	0.6352	1.62		Q				
5+45	0.6411	0.85		Q				
5+50	0.6449	0.55		Q				
5+55	0.6475	0.38		Q				
6+ 0	0.6492	0.25		Q				
6+ 5	0.6499	0.10		Q				
6+10	0.6501	0.02		Q				
6+15	0.6501	0.00		Q				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA1Q100UH245.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-24HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
6.58	1.90	12.50

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	4.80	31.57

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 2.579(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.579(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.862	0.129	1.000	0.129
Sum (F) =						0.129

Area averaged mean soil loss (F) (In/Hr) = 0.129
 Minimum soil loss rate ((In/Hr)) = 0.064
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
		Sum = 100.000	Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.021	(0.228)	0.004	0.016
2	0.17	0.07	0.021	(0.227)	0.004	0.016
3	0.25	0.07	0.021	(0.226)	0.004	0.016
4	0.33	0.10	0.031	(0.225)	0.006	0.024
5	0.42	0.10	0.031	(0.225)	0.006	0.024
6	0.50	0.10	0.031	(0.224)	0.006	0.024
7	0.58	0.10	0.031	(0.223)	0.006	0.024
8	0.67	0.10	0.031	(0.222)	0.006	0.024
9	0.75	0.10	0.031	(0.221)	0.006	0.024
10	0.83	0.13	0.041	(0.220)	0.009	0.033
11	0.92	0.13	0.041	(0.219)	0.009	0.033
12	1.00	0.13	0.041	(0.219)	0.009	0.033
13	1.08	0.10	0.031	(0.218)	0.006	0.024
14	1.17	0.10	0.031	(0.217)	0.006	0.024
15	1.25	0.10	0.031	(0.216)	0.006	0.024
16	1.33	0.10	0.031	(0.215)	0.006	0.024
17	1.42	0.10	0.031	(0.214)	0.006	0.024
18	1.50	0.10	0.031	(0.213)	0.006	0.024
19	1.58	0.10	0.031	(0.213)	0.006	0.024
20	1.67	0.10	0.031	(0.212)	0.006	0.024
21	1.75	0.10	0.031	(0.211)	0.006	0.024
22	1.83	0.13	0.041	(0.210)	0.009	0.033
23	1.92	0.13	0.041	(0.209)	0.009	0.033
24	2.00	0.13	0.041	(0.208)	0.009	0.033
25	2.08	0.13	0.041	(0.207)	0.009	0.033
26	2.17	0.13	0.041	(0.207)	0.009	0.033
27	2.25	0.13	0.041	(0.206)	0.009	0.033
28	2.33	0.13	0.041	(0.205)	0.009	0.033
29	2.42	0.13	0.041	(0.204)	0.009	0.033
30	2.50	0.13	0.041	(0.203)	0.009	0.033
31	2.58	0.17	0.052	(0.202)	0.011	0.041
32	2.67	0.17	0.052	(0.202)	0.011	0.041
33	2.75	0.17	0.052	(0.201)	0.011	0.041
34	2.83	0.17	0.052	(0.200)	0.011	0.041
35	2.92	0.17	0.052	(0.199)	0.011	0.041
36	3.00	0.17	0.052	(0.198)	0.011	0.041
37	3.08	0.17	0.052	(0.197)	0.011	0.041
38	3.17	0.17	0.052	(0.197)	0.011	0.041
39	3.25	0.17	0.052	(0.196)	0.011	0.041
40	3.33	0.17	0.052	(0.195)	0.011	0.041
41	3.42	0.17	0.052	(0.194)	0.011	0.041
42	3.50	0.17	0.052	(0.193)	0.011	0.041
43	3.58	0.17	0.052	(0.193)	0.011	0.041
44	3.67	0.17	0.052	(0.192)	0.011	0.041
45	3.75	0.17	0.052	(0.191)	0.011	0.041

46	3.83	0.20	0.062	(0.190)	0.013	0.049
47	3.92	0.20	0.062	(0.189)	0.013	0.049
48	4.00	0.20	0.062	(0.189)	0.013	0.049
49	4.08	0.20	0.062	(0.188)	0.013	0.049
50	4.17	0.20	0.062	(0.187)	0.013	0.049
51	4.25	0.20	0.062	(0.186)	0.013	0.049
52	4.33	0.23	0.072	(0.185)	0.015	0.057
53	4.42	0.23	0.072	(0.185)	0.015	0.057
54	4.50	0.23	0.072	(0.184)	0.015	0.057
55	4.58	0.23	0.072	(0.183)	0.015	0.057
56	4.67	0.23	0.072	(0.182)	0.015	0.057
57	4.75	0.23	0.072	(0.181)	0.015	0.057
58	4.83	0.27	0.083	(0.181)	0.017	0.065
59	4.92	0.27	0.083	(0.180)	0.017	0.065
60	5.00	0.27	0.083	(0.179)	0.017	0.065
61	5.08	0.20	0.062	(0.178)	0.013	0.049
62	5.17	0.20	0.062	(0.178)	0.013	0.049
63	5.25	0.20	0.062	(0.177)	0.013	0.049
64	5.33	0.23	0.072	(0.176)	0.015	0.057
65	5.42	0.23	0.072	(0.175)	0.015	0.057
66	5.50	0.23	0.072	(0.174)	0.015	0.057
67	5.58	0.27	0.083	(0.174)	0.017	0.065
68	5.67	0.27	0.083	(0.173)	0.017	0.065
69	5.75	0.27	0.083	(0.172)	0.017	0.065
70	5.83	0.27	0.083	(0.171)	0.017	0.065
71	5.92	0.27	0.083	(0.171)	0.017	0.065
72	6.00	0.27	0.083	(0.170)	0.017	0.065
73	6.08	0.30	0.093	(0.169)	0.019	0.073
74	6.17	0.30	0.093	(0.168)	0.019	0.073
75	6.25	0.30	0.093	(0.168)	0.019	0.073
76	6.33	0.30	0.093	(0.167)	0.019	0.073
77	6.42	0.30	0.093	(0.166)	0.019	0.073
78	6.50	0.30	0.093	(0.165)	0.019	0.073
79	6.58	0.33	0.103	(0.165)	0.022	0.082
80	6.67	0.33	0.103	(0.164)	0.022	0.082
81	6.75	0.33	0.103	(0.163)	0.022	0.082
82	6.83	0.33	0.103	(0.162)	0.022	0.082
83	6.92	0.33	0.103	(0.162)	0.022	0.082
84	7.00	0.33	0.103	(0.161)	0.022	0.082
85	7.08	0.33	0.103	(0.160)	0.022	0.082
86	7.17	0.33	0.103	(0.159)	0.022	0.082
87	7.25	0.33	0.103	(0.159)	0.022	0.082
88	7.33	0.37	0.113	(0.158)	0.024	0.090
89	7.42	0.37	0.113	(0.157)	0.024	0.090
90	7.50	0.37	0.113	(0.157)	0.024	0.090
91	7.58	0.40	0.124	(0.156)	0.026	0.098
92	7.67	0.40	0.124	(0.155)	0.026	0.098
93	7.75	0.40	0.124	(0.154)	0.026	0.098
94	7.83	0.43	0.134	(0.154)	0.028	0.106
95	7.92	0.43	0.134	(0.153)	0.028	0.106

96	8.00	0.43	0.134	(0.152)	0.028	0.106
97	8.08	0.50	0.155	(0.152)	0.032	0.122
98	8.17	0.50	0.155	(0.151)	0.032	0.122
99	8.25	0.50	0.155	(0.150)	0.032	0.122
100	8.33	0.50	0.155	(0.149)	0.032	0.122
101	8.42	0.50	0.155	(0.149)	0.032	0.122
102	8.50	0.50	0.155	(0.148)	0.032	0.122
103	8.58	0.53	0.165	(0.147)	0.035	0.130
104	8.67	0.53	0.165	(0.147)	0.035	0.130
105	8.75	0.53	0.165	(0.146)	0.035	0.130
106	8.83	0.57	0.175	(0.145)	0.037	0.139
107	8.92	0.57	0.175	(0.145)	0.037	0.139
108	9.00	0.57	0.175	(0.144)	0.037	0.139
109	9.08	0.63	0.196	(0.143)	0.041	0.155
110	9.17	0.63	0.196	(0.143)	0.041	0.155
111	9.25	0.63	0.196	(0.142)	0.041	0.155
112	9.33	0.67	0.206	(0.141)	0.043	0.163
113	9.42	0.67	0.206	(0.141)	0.043	0.163
114	9.50	0.67	0.206	(0.140)	0.043	0.163
115	9.58	0.70	0.217	(0.139)	0.045	0.171
116	9.67	0.70	0.217	(0.139)	0.045	0.171
117	9.75	0.70	0.217	(0.138)	0.045	0.171
118	9.83	0.73	0.227	(0.137)	0.048	0.179
119	9.92	0.73	0.227	(0.137)	0.048	0.179
120	10.00	0.73	0.227	(0.136)	0.048	0.179
121	10.08	0.50	0.155	(0.135)	0.032	0.122
122	10.17	0.50	0.155	(0.135)	0.032	0.122
123	10.25	0.50	0.155	(0.134)	0.032	0.122
124	10.33	0.50	0.155	(0.133)	0.032	0.122
125	10.42	0.50	0.155	(0.133)	0.032	0.122
126	10.50	0.50	0.155	(0.132)	0.032	0.122
127	10.58	0.67	0.206	(0.131)	0.043	0.163
128	10.67	0.67	0.206	(0.131)	0.043	0.163
129	10.75	0.67	0.206	(0.130)	0.043	0.163
130	10.83	0.67	0.206	(0.129)	0.043	0.163
131	10.92	0.67	0.206	(0.129)	0.043	0.163
132	11.00	0.67	0.206	(0.128)	0.043	0.163
133	11.08	0.63	0.196	(0.128)	0.041	0.155
134	11.17	0.63	0.196	(0.127)	0.041	0.155
135	11.25	0.63	0.196	(0.126)	0.041	0.155
136	11.33	0.63	0.196	(0.126)	0.041	0.155
137	11.42	0.63	0.196	(0.125)	0.041	0.155
138	11.50	0.63	0.196	(0.124)	0.041	0.155
139	11.58	0.57	0.175	(0.124)	0.037	0.139
140	11.67	0.57	0.175	(0.123)	0.037	0.139
141	11.75	0.57	0.175	(0.123)	0.037	0.139
142	11.83	0.60	0.186	(0.122)	0.039	0.147
143	11.92	0.60	0.186	(0.121)	0.039	0.147
144	12.00	0.60	0.186	(0.121)	0.039	0.147
145	12.08	0.83	0.258	(0.120)	0.054	0.204

146	12.17	0.83	0.258	(0.120)	0.054	0.204
147	12.25	0.83	0.258	(0.119)	0.054	0.204
148	12.33	0.87	0.268	(0.118)	0.056	0.212
149	12.42	0.87	0.268	(0.118)	0.056	0.212
150	12.50	0.87	0.268	(0.117)	0.056	0.212
151	12.58	0.93	0.289	(0.117)	0.061	0.228
152	12.67	0.93	0.289	(0.116)	0.061	0.228
153	12.75	0.93	0.289	(0.115)	0.061	0.228
154	12.83	0.97	0.299	(0.115)	0.063	0.236
155	12.92	0.97	0.299	(0.114)	0.063	0.236
156	13.00	0.97	0.299	(0.114)	0.063	0.236
157	13.08	1.13	0.351	(0.113)	0.074	0.277
158	13.17	1.13	0.351	(0.112)	0.074	0.277
159	13.25	1.13	0.351	(0.112)	0.074	0.277
160	13.33	1.13	0.351	(0.111)	0.074	0.277
161	13.42	1.13	0.351	(0.111)	0.074	0.277
162	13.50	1.13	0.351	(0.110)	0.074	0.277
163	13.58	0.77	0.237	(0.110)	0.050	0.187
164	13.67	0.77	0.237	(0.109)	0.050	0.187
165	13.75	0.77	0.237	(0.109)	0.050	0.187
166	13.83	0.77	0.237	(0.108)	0.050	0.187
167	13.92	0.77	0.237	(0.107)	0.050	0.187
168	14.00	0.77	0.237	(0.107)	0.050	0.187
169	14.08	0.90	0.279	(0.106)	0.058	0.220
170	14.17	0.90	0.279	(0.106)	0.058	0.220
171	14.25	0.90	0.279	(0.105)	0.058	0.220
172	14.33	0.87	0.268	(0.105)	0.056	0.212
173	14.42	0.87	0.268	(0.104)	0.056	0.212
174	14.50	0.87	0.268	(0.104)	0.056	0.212
175	14.58	0.87	0.268	(0.103)	0.056	0.212
176	14.67	0.87	0.268	(0.103)	0.056	0.212
177	14.75	0.87	0.268	(0.102)	0.056	0.212
178	14.83	0.83	0.258	(0.102)	0.054	0.204
179	14.92	0.83	0.258	(0.101)	0.054	0.204
180	15.00	0.83	0.258	(0.101)	0.054	0.204
181	15.08	0.80	0.248	(0.100)	0.052	0.196
182	15.17	0.80	0.248	(0.099)	0.052	0.196
183	15.25	0.80	0.248	(0.099)	0.052	0.196
184	15.33	0.77	0.237	(0.098)	0.050	0.187
185	15.42	0.77	0.237	(0.098)	0.050	0.187
186	15.50	0.77	0.237	(0.097)	0.050	0.187
187	15.58	0.63	0.196	(0.097)	0.041	0.155
188	15.67	0.63	0.196	(0.096)	0.041	0.155
189	15.75	0.63	0.196	(0.096)	0.041	0.155
190	15.83	0.63	0.196	(0.095)	0.041	0.155
191	15.92	0.63	0.196	(0.095)	0.041	0.155
192	16.00	0.63	0.196	(0.094)	0.041	0.155
193	16.08	0.13	0.041	(0.094)	0.009	0.033
194	16.17	0.13	0.041	(0.094)	0.009	0.033
195	16.25	0.13	0.041	(0.093)	0.009	0.033

196	16.33	0.13	0.041	(0.093)	0.009	0.033
197	16.42	0.13	0.041	(0.092)	0.009	0.033
198	16.50	0.13	0.041	(0.092)	0.009	0.033
199	16.58	0.10	0.031	(0.091)	0.006	0.024
200	16.67	0.10	0.031	(0.091)	0.006	0.024
201	16.75	0.10	0.031	(0.090)	0.006	0.024
202	16.83	0.10	0.031	(0.090)	0.006	0.024
203	16.92	0.10	0.031	(0.089)	0.006	0.024
204	17.00	0.10	0.031	(0.089)	0.006	0.024
205	17.08	0.17	0.052	(0.088)	0.011	0.041
206	17.17	0.17	0.052	(0.088)	0.011	0.041
207	17.25	0.17	0.052	(0.088)	0.011	0.041
208	17.33	0.17	0.052	(0.087)	0.011	0.041
209	17.42	0.17	0.052	(0.087)	0.011	0.041
210	17.50	0.17	0.052	(0.086)	0.011	0.041
211	17.58	0.17	0.052	(0.086)	0.011	0.041
212	17.67	0.17	0.052	(0.085)	0.011	0.041
213	17.75	0.17	0.052	(0.085)	0.011	0.041
214	17.83	0.13	0.041	(0.085)	0.009	0.033
215	17.92	0.13	0.041	(0.084)	0.009	0.033
216	18.00	0.13	0.041	(0.084)	0.009	0.033
217	18.08	0.13	0.041	(0.083)	0.009	0.033
218	18.17	0.13	0.041	(0.083)	0.009	0.033
219	18.25	0.13	0.041	(0.082)	0.009	0.033
220	18.33	0.13	0.041	(0.082)	0.009	0.033
221	18.42	0.13	0.041	(0.082)	0.009	0.033
222	18.50	0.13	0.041	(0.081)	0.009	0.033
223	18.58	0.10	0.031	(0.081)	0.006	0.024
224	18.67	0.10	0.031	(0.080)	0.006	0.024
225	18.75	0.10	0.031	(0.080)	0.006	0.024
226	18.83	0.07	0.021	(0.080)	0.004	0.016
227	18.92	0.07	0.021	(0.079)	0.004	0.016
228	19.00	0.07	0.021	(0.079)	0.004	0.016
229	19.08	0.10	0.031	(0.079)	0.006	0.024
230	19.17	0.10	0.031	(0.078)	0.006	0.024
231	19.25	0.10	0.031	(0.078)	0.006	0.024
232	19.33	0.13	0.041	(0.077)	0.009	0.033
233	19.42	0.13	0.041	(0.077)	0.009	0.033
234	19.50	0.13	0.041	(0.077)	0.009	0.033
235	19.58	0.10	0.031	(0.076)	0.006	0.024
236	19.67	0.10	0.031	(0.076)	0.006	0.024
237	19.75	0.10	0.031	(0.076)	0.006	0.024
238	19.83	0.07	0.021	(0.075)	0.004	0.016
239	19.92	0.07	0.021	(0.075)	0.004	0.016
240	20.00	0.07	0.021	(0.075)	0.004	0.016
241	20.08	0.10	0.031	(0.074)	0.006	0.024
242	20.17	0.10	0.031	(0.074)	0.006	0.024
243	20.25	0.10	0.031	(0.074)	0.006	0.024
244	20.33	0.10	0.031	(0.073)	0.006	0.024
245	20.42	0.10	0.031	(0.073)	0.006	0.024

246	20.50	0.10	0.031	(0.073)	0.006	0.024
247	20.58	0.10	0.031	(0.072)	0.006	0.024
248	20.67	0.10	0.031	(0.072)	0.006	0.024
249	20.75	0.10	0.031	(0.072)	0.006	0.024
250	20.83	0.07	0.021	(0.072)	0.004	0.016
251	20.92	0.07	0.021	(0.071)	0.004	0.016
252	21.00	0.07	0.021	(0.071)	0.004	0.016
253	21.08	0.10	0.031	(0.071)	0.006	0.024
254	21.17	0.10	0.031	(0.070)	0.006	0.024
255	21.25	0.10	0.031	(0.070)	0.006	0.024
256	21.33	0.07	0.021	(0.070)	0.004	0.016
257	21.42	0.07	0.021	(0.070)	0.004	0.016
258	21.50	0.07	0.021	(0.069)	0.004	0.016
259	21.58	0.10	0.031	(0.069)	0.006	0.024
260	21.67	0.10	0.031	(0.069)	0.006	0.024
261	21.75	0.10	0.031	(0.069)	0.006	0.024
262	21.83	0.07	0.021	(0.068)	0.004	0.016
263	21.92	0.07	0.021	(0.068)	0.004	0.016
264	22.00	0.07	0.021	(0.068)	0.004	0.016
265	22.08	0.10	0.031	(0.068)	0.006	0.024
266	22.17	0.10	0.031	(0.067)	0.006	0.024
267	22.25	0.10	0.031	(0.067)	0.006	0.024
268	22.33	0.07	0.021	(0.067)	0.004	0.016
269	22.42	0.07	0.021	(0.067)	0.004	0.016
270	22.50	0.07	0.021	(0.067)	0.004	0.016
271	22.58	0.07	0.021	(0.066)	0.004	0.016
272	22.67	0.07	0.021	(0.066)	0.004	0.016
273	22.75	0.07	0.021	(0.066)	0.004	0.016
274	22.83	0.07	0.021	(0.066)	0.004	0.016
275	22.92	0.07	0.021	(0.066)	0.004	0.016
276	23.00	0.07	0.021	(0.066)	0.004	0.016
277	23.08	0.07	0.021	(0.065)	0.004	0.016
278	23.17	0.07	0.021	(0.065)	0.004	0.016
279	23.25	0.07	0.021	(0.065)	0.004	0.016
280	23.33	0.07	0.021	(0.065)	0.004	0.016
281	23.42	0.07	0.021	(0.065)	0.004	0.016
282	23.50	0.07	0.021	(0.065)	0.004	0.016
283	23.58	0.07	0.021	(0.065)	0.004	0.016
284	23.67	0.07	0.021	(0.065)	0.004	0.016
285	23.75	0.07	0.021	(0.065)	0.004	0.016
286	23.83	0.07	0.021	(0.064)	0.004	0.016
287	23.92	0.07	0.021	(0.064)	0.004	0.016
288	24.00	0.07	0.021	(0.064)	0.004	0.016

(Loss Rate Not Used)

Sum = 100.0

Sum = 24.5

Flood volume = Effective rainfall 2.04(In)
times area 6.6(Ac.)/[(In)/(Ft.)] = 1.1(Ac.Ft)
Total soil loss = 0.54(In)
Total soil loss = 0.297(Ac.Ft)
Total rainfall = 2.58(In)

Flood volume = 48653.7 Cubic Feet
 Total soil loss = 12933.3 Cubic Feet

 Peak flow rate of this hydrograph = 1.838(CFS)

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

 Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0004	0.06	Q				
0+10	0.0011	0.10	Q				
0+15	0.0018	0.11	Q				
0+20	0.0027	0.14	Q				
0+25	0.0038	0.16	Q				
0+30	0.0049	0.16	Q				
0+35	0.0060	0.16	Q				
0+40	0.0072	0.16	Q				
0+45	0.0083	0.16	Q				
0+50	0.0096	0.19	Q				
0+55	0.0110	0.21	Q				
1+ 0	0.0125	0.22	Q				
1+ 5	0.0138	0.19	Q				
1+10	0.0150	0.17	Q				
1+15	0.0161	0.16	Q				
1+20	0.0172	0.16	Q				
1+25	0.0183	0.16	Q				
1+30	0.0194	0.16	Q				
1+35	0.0206	0.16	Q				
1+40	0.0217	0.16	Q				
1+45	0.0228	0.16	Q				
1+50	0.0241	0.19	Q				
1+55	0.0256	0.21	Q				
2+ 0	0.0270	0.22	Q				
2+ 5	0.0285	0.22	QV				
2+10	0.0300	0.22	QV				
2+15	0.0315	0.22	QV				
2+20	0.0330	0.22	QV				
2+25	0.0345	0.22	QV				
2+30	0.0360	0.22	QV				
2+35	0.0377	0.24	QV				
2+40	0.0395	0.27	Q				
2+45	0.0413	0.27	Q				
2+50	0.0432	0.27	Q				
2+55	0.0451	0.27	Q				
3+ 0	0.0469	0.27	Q				

3+ 5	0.0488	0.27	Q				
3+10	0.0506	0.27	Q				
3+15	0.0525	0.27	Q				
3+20	0.0544	0.27	Q				
3+25	0.0562	0.27	QV				
3+30	0.0581	0.27	QV				
3+35	0.0600	0.27	QV				
3+40	0.0618	0.27	QV				
3+45	0.0637	0.27	QV				
3+50	0.0657	0.30	QV				
3+55	0.0679	0.32	QV				
4+ 0	0.0702	0.32	QV				
4+ 5	0.0724	0.32	QV				
4+10	0.0746	0.32	QV				
4+15	0.0769	0.32	QV				
4+20	0.0793	0.35	QV				
4+25	0.0819	0.37	QV				
4+30	0.0845	0.38	Q V				
4+35	0.0871	0.38	Q V				
4+40	0.0897	0.38	Q V				
4+45	0.0923	0.38	Q V				
4+50	0.0951	0.41	Q V				
4+55	0.0980	0.43	Q V				
5+ 0	0.1010	0.43	Q V				
5+ 5	0.1036	0.38	Q V				
5+10	0.1059	0.33	Q V				
5+15	0.1081	0.33	Q V				
5+20	0.1106	0.35	Q V				
5+25	0.1131	0.37	Q V				
5+30	0.1157	0.38	Q V				
5+35	0.1185	0.41	Q V				
5+40	0.1215	0.43	Q V				
5+45	0.1244	0.43	Q V				
5+50	0.1274	0.43	Q V				
5+55	0.1304	0.43	Q V				
6+ 0	0.1334	0.43	Q V				
6+ 5	0.1366	0.46	Q V				
6+10	0.1399	0.48	Q V				
6+15	0.1432	0.49	Q V				
6+20	0.1466	0.49	Q V				
6+25	0.1499	0.49	Q V				
6+30	0.1533	0.49	Q V				
6+35	0.1568	0.51	Q V				
6+40	0.1605	0.54	Q V				
6+45	0.1642	0.54	Q V				
6+50	0.1679	0.54	Q V				
6+55	0.1717	0.54	Q V				
7+ 0	0.1754	0.54	Q V				
7+ 5	0.1791	0.54	Q V				
7+10	0.1828	0.54	Q V				

7+15	0.1866	0.54	Q	V				
7+20	0.1905	0.57	Q	V				
7+25	0.1945	0.59	Q	V				
7+30	0.1986	0.59	Q	V				
7+35	0.2029	0.62	Q	V				
7+40	0.2073	0.64	Q	V				
7+45	0.2118	0.65	Q	V				
7+50	0.2165	0.68	Q	V				
7+55	0.2213	0.70	Q	V				
8+ 0	0.2261	0.70	Q	V				
8+ 5	0.2313	0.76	Q	V				
8+10	0.2368	0.80	Q	V				
8+15	0.2424	0.81	Q	V				
8+20	0.2480	0.81	Q	V				
8+25	0.2536	0.81	Q	V				
8+30	0.2592	0.81	Q	V				
8+35	0.2649	0.84	Q	V				
8+40	0.2709	0.86	Q	V				
8+45	0.2768	0.86	Q	V				
8+50	0.2830	0.89	Q	V				
8+55	0.2893	0.91	Q	V				
9+ 0	0.2956	0.92	Q	V				
9+ 5	0.3023	0.97	Q	V				
9+10	0.3093	1.02	Q	V				
9+15	0.3164	1.03	Q	V				
9+20	0.3236	1.05	Q	V				
9+25	0.3310	1.08	Q	V				
9+30	0.3385	1.08	Q	V				
9+35	0.3461	1.11	Q	V				
9+40	0.3539	1.13	Q	V				
9+45	0.3617	1.13	Q	V				
9+50	0.3697	1.16	Q	V				
9+55	0.3779	1.18	Q	V				
10+ 0	0.3861	1.19	Q	V				
10+ 5	0.3929	0.99	Q	V				
10+10	0.3987	0.84	Q	V				
10+15	0.4044	0.82	Q	V				
10+20	0.4100	0.81	Q	V				
10+25	0.4155	0.81	Q	V				
10+30	0.4211	0.81	Q	V				
10+35	0.4277	0.95	Q	V				
10+40	0.4349	1.06	Q	V				
10+45	0.4424	1.08	Q	V				
10+50	0.4498	1.08	Q	V				
10+55	0.4573	1.08	Q	V				
11+ 0	0.4647	1.08	Q	V				
11+ 5	0.4720	1.05	Q	V				
11+10	0.4791	1.03	Q	V				
11+15	0.4861	1.03	Q	V				
11+20	0.4932	1.03	Q	V				

11+25	0.5003	1.03	Q	V		
11+30	0.5074	1.03	Q	V		
11+35	0.5141	0.97	Q	V		
11+40	0.5204	0.93	Q	V		
11+45	0.5268	0.92	Q	V		
11+50	0.5333	0.95	Q	V		
11+55	0.5400	0.97	Q	V		
12+ 0	0.5467	0.97	Q	V		
12+ 5	0.5547	1.17	Q	V		
12+10	0.5638	1.32	Q	V		
12+15	0.5731	1.34	Q	V		
12+20	0.5826	1.38	Q	V		
12+25	0.5922	1.40	Q	V		
12+30	0.6019	1.40	Q	V		
12+35	0.6119	1.46	Q	V		
12+40	0.6223	1.50	Q	V		
12+45	0.6327	1.51	Q	V		
12+50	0.6433	1.54	Q	V		
12+55	0.6541	1.56	Q	V		
13+ 0	0.6649	1.57	Q	V		
13+ 5	0.6766	1.71	Q	V		
13+10	0.6891	1.81	Q	V		
13+15	0.7017	1.83	Q	V		
13+20	0.7144	1.84	Q	V		
13+25	0.7271	1.84	Q	V		
13+30	0.7397	1.84	Q	V		
13+35	0.7503	1.53	Q	V		
13+40	0.7592	1.30	Q	V		
13+45	0.7678	1.25	Q	V		
13+50	0.7764	1.24	Q	V		
13+55	0.7850	1.24	Q	V		
14+ 0	0.7935	1.24	Q	V		
14+ 5	0.8029	1.35	Q	V		
14+10	0.8128	1.44	Q	V		
14+15	0.8228	1.46	Q	V		
14+20	0.8327	1.43	Q	V		
14+25	0.8424	1.41	Q	V		
14+30	0.8521	1.41	Q	V		
14+35	0.8617	1.41	Q	V		
14+40	0.8714	1.41	Q	V		
14+45	0.8811	1.41	Q	V		
14+50	0.8906	1.38	Q	V		
14+55	0.8999	1.36	Q	V		
15+ 0	0.9092	1.35	Q	V		
15+ 5	0.9184	1.32	Q	V		
15+10	0.9273	1.30	Q	V		
15+15	0.9363	1.30	Q	V		
15+20	0.9450	1.27	Q	V		
15+25	0.9536	1.25	Q	V		
15+30	0.9622	1.24	Q	V		

15+35	0.9700	1.13	Q	V
15+40	0.9772	1.05	Q	V
15+45	0.9843	1.03	Q	V
15+50	0.9914	1.03	Q	V
15+55	0.9984	1.03	Q	V
16+ 0	1.0055	1.03	Q	V
16+ 5	1.0097	0.61	Q	V
16+10	1.0117	0.29	Q	V
16+15	1.0133	0.23	Q	V
16+20	1.0148	0.22	Q	V
16+25	1.0163	0.22	Q	V
16+30	1.0178	0.22	Q	V
16+35	1.0191	0.19	Q	V
16+40	1.0202	0.17	Q	V
16+45	1.0213	0.16	Q	V
16+50	1.0224	0.16	Q	V
16+55	1.0236	0.16	Q	V
17+ 0	1.0247	0.16	Q	V
17+ 5	1.0262	0.22	Q	V
17+10	1.0280	0.26	Q	V
17+15	1.0298	0.27	Q	V
17+20	1.0317	0.27	Q	V
17+25	1.0335	0.27	Q	V
17+30	1.0354	0.27	Q	V
17+35	1.0373	0.27	Q	V
17+40	1.0391	0.27	Q	V
17+45	1.0410	0.27	Q	V
17+50	1.0427	0.24	Q	V
17+55	1.0442	0.22	Q	V
18+ 0	1.0457	0.22	Q	V
18+ 5	1.0472	0.22	Q	V
18+10	1.0487	0.22	Q	V
18+15	1.0502	0.22	Q	V
18+20	1.0516	0.22	Q	V
18+25	1.0531	0.22	Q	V
18+30	1.0546	0.22	Q	V
18+35	1.0559	0.19	Q	V
18+40	1.0571	0.17	Q	V
18+45	1.0582	0.16	Q	V
18+50	1.0591	0.13	Q	V
18+55	1.0599	0.11	Q	V
19+ 0	1.0606	0.11	Q	V
19+ 5	1.0616	0.14	Q	V
19+10	1.0627	0.16	Q	V
19+15	1.0638	0.16	Q	V
19+20	1.0651	0.19	Q	V
19+25	1.0665	0.21	Q	V
19+30	1.0680	0.22	Q	V
19+35	1.0693	0.19	Q	V
19+40	1.0705	0.17	Q	V

19+45	1.0716	0.16	Q				V
19+50	1.0725	0.13	Q				V
19+55	1.0733	0.11	Q				V
20+ 0	1.0740	0.11	Q				V
20+ 5	1.0750	0.14	Q				V
20+10	1.0761	0.16	Q				V
20+15	1.0772	0.16	Q				V
20+20	1.0783	0.16	Q				V
20+25	1.0794	0.16	Q				V
20+30	1.0805	0.16	Q				V
20+35	1.0816	0.16	Q				V
20+40	1.0828	0.16	Q				V
20+45	1.0839	0.16	Q				V
20+50	1.0848	0.13	Q				V
20+55	1.0856	0.11	Q				V
21+ 0	1.0863	0.11	Q				V
21+ 5	1.0873	0.14	Q				V
21+10	1.0884	0.16	Q				V
21+15	1.0895	0.16	Q				V
21+20	1.0904	0.13	Q				V
21+25	1.0912	0.11	Q				V
21+30	1.0919	0.11	Q				V
21+35	1.0929	0.14	Q				V
21+40	1.0939	0.16	Q				V
21+45	1.0951	0.16	Q				V
21+50	1.0960	0.13	Q				V
21+55	1.0968	0.11	Q				V
22+ 0	1.0975	0.11	Q				V
22+ 5	1.0984	0.14	Q				V
22+10	1.0995	0.16	Q				V
22+15	1.1006	0.16	Q				V
22+20	1.1016	0.13	Q				V
22+25	1.1023	0.11	Q				V
22+30	1.1031	0.11	Q				V
22+35	1.1038	0.11	Q				V
22+40	1.1046	0.11	Q				V
22+45	1.1053	0.11	Q				V
22+50	1.1061	0.11	Q				V
22+55	1.1068	0.11	Q				V
23+ 0	1.1076	0.11	Q				V
23+ 5	1.1083	0.11	Q				V
23+10	1.1090	0.11	Q				V
23+15	1.1098	0.11	Q				V
23+20	1.1105	0.11	Q				V
23+25	1.1113	0.11	Q				V
23+30	1.1120	0.11	Q				V
23+35	1.1128	0.11	Q				V
23+40	1.1135	0.11	Q				V
23+45	1.1143	0.11	Q				V
23+50	1.1150	0.11	Q				V

23+55	1.1157	0.11	Q				V
24+ 0	1.1165	0.11	Q				V
24+ 5	1.1169	0.05	Q				V
24+10	1.1169	0.01	Q				V
24+15	1.1169	0.00	Q				V

DMA 1 Proposed 10-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR - 1HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	0.48	3.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.25	8.22

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.797(In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 0.797(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.862	0.084	1.000	0.084
Sum (F) =						0.084

Area averaged mean soil loss (F) (In/Hr) = 0.084
 Minimum soil loss rate ((In/Hr)) = 0.042
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

0+55	0.3479	9.15				Q				V	
1+ 0	0.3776	4.31			Q					V	
1+ 5	0.3888	1.62		Q						V	
1+10	0.3906	0.26	Q							V	
1+15	0.3909	0.05	Q							V	

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR - 3HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
6.58	0.80	5.26

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.95	12.83

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.273(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.273(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.862	0.084	1.000	0.084
Sum (F) =						0.084

Area averaged mean soil loss (F) (In/Hr) = 0.084
 Minimum soil loss rate ((In/Hr)) = 0.042
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

 Peak flow rate of this hydrograph = 7.203(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	2.5	5.0	7.5	10.0
0+ 5	0.0037	0.53	V Q				
0+10	0.0102	0.95	V Q				
0+15	0.0167	0.94	V Q				
0+20	0.0240	1.06	V Q				
0+25	0.0321	1.18	V Q				
0+30	0.0412	1.32	V Q				
0+35	0.0501	1.30	V Q				
0+40	0.0593	1.34	VQ				
0+45	0.0691	1.42	VQ				
0+50	0.0782	1.31	Q				
0+55	0.0869	1.26	Q				
1+ 0	0.0962	1.36	QV				
1+ 5	0.1072	1.59	QV				
1+10	0.1191	1.73	Q V				
1+15	0.1312	1.76	QV				
1+20	0.1427	1.68	Q V				
1+25	0.1556	1.86	Q V				
1+30	0.1700	2.09	Q V				
1+35	0.1840	2.03	Q V				
1+40	0.1983	2.08	Q V				
1+45	0.2153	2.48	Q V				
1+50	0.2334	2.63	Q V				
1+55	0.2506	2.49	Q V				
2+ 0	0.2675	2.46	Q V				
2+ 5	0.2849	2.53	Q V				
2+10	0.3066	3.15	Q				
2+15	0.3343	4.02	Q				
2+20	0.3593	3.64	Q				
2+25	0.3926	4.83	Q				
2+30	0.4362	6.33	Q				
2+35	0.4858	7.20	Q				
2+40	0.5303	6.47	Q				
2+45	0.5555	3.65	Q				
2+50	0.5685	1.90	Q				
2+55	0.5791	1.53	Q				
3+ 0	0.5856	0.95	Q				
3+ 5	0.5878	0.32	Q				
3+10	0.5882	0.06	Q				

3+15

0.5883

0.01 Q

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Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-6HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.11	7.30

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	2.70	17.76

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.764(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.764(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.862	0.084	1.000	0.084
Sum (F) =						0.084

Area averaged mean soil loss (F) (In/Hr) = 0.084
 Minimum soil loss rate ((In/Hr)) = 0.042
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
		Sum = 100.000	Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.106	(0.084)	0.022	0.084
2	0.17	0.60	0.127	(0.084)	0.027	0.100
3	0.25	0.60	0.127	(0.084)	0.027	0.100
4	0.33	0.60	0.127	(0.084)	0.027	0.100
5	0.42	0.60	0.127	(0.084)	0.027	0.100
6	0.50	0.70	0.148	(0.084)	0.031	0.117
7	0.58	0.70	0.148	(0.084)	0.031	0.117
8	0.67	0.70	0.148	(0.084)	0.031	0.117
9	0.75	0.70	0.148	(0.084)	0.031	0.117
10	0.83	0.70	0.148	(0.084)	0.031	0.117
11	0.92	0.70	0.148	(0.084)	0.031	0.117
12	1.00	0.80	0.169	(0.084)	0.036	0.134
13	1.08	0.80	0.169	(0.084)	0.036	0.134
14	1.17	0.80	0.169	(0.084)	0.036	0.134
15	1.25	0.80	0.169	(0.084)	0.036	0.134
16	1.33	0.80	0.169	(0.084)	0.036	0.134
17	1.42	0.80	0.169	(0.084)	0.036	0.134
18	1.50	0.80	0.169	(0.084)	0.036	0.134
19	1.58	0.80	0.169	(0.084)	0.036	0.134
20	1.67	0.80	0.169	(0.084)	0.036	0.134
21	1.75	0.80	0.169	(0.084)	0.036	0.134
22	1.83	0.80	0.169	(0.084)	0.036	0.134
23	1.92	0.80	0.169	(0.084)	0.036	0.134
24	2.00	0.90	0.191	(0.084)	0.040	0.151
25	2.08	0.80	0.169	(0.084)	0.036	0.134
26	2.17	0.90	0.191	(0.084)	0.040	0.151
27	2.25	0.90	0.191	(0.084)	0.040	0.151
28	2.33	0.90	0.191	(0.084)	0.040	0.151
29	2.42	0.90	0.191	(0.084)	0.040	0.151
30	2.50	0.90	0.191	(0.084)	0.040	0.151
31	2.58	0.90	0.191	(0.084)	0.040	0.151
32	2.67	0.90	0.191	(0.084)	0.040	0.151
33	2.75	1.00	0.212	(0.084)	0.044	0.167
34	2.83	1.00	0.212	(0.084)	0.044	0.167
35	2.92	1.00	0.212	(0.084)	0.044	0.167
36	3.00	1.00	0.212	(0.084)	0.044	0.167
37	3.08	1.00	0.212	(0.084)	0.044	0.167
38	3.17	1.10	0.233	(0.084)	0.049	0.184
39	3.25	1.10	0.233	(0.084)	0.049	0.184
40	3.33	1.10	0.233	(0.084)	0.049	0.184
41	3.42	1.20	0.254	(0.084)	0.053	0.201
42	3.50	1.30	0.275	(0.084)	0.058	0.217
43	3.58	1.40	0.296	(0.084)	0.062	0.234
44	3.67	1.40	0.296	(0.084)	0.062	0.234
45	3.75	1.50	0.318	(0.084)	0.067	0.251

0+15	0.0103	0.65	V Q				
0+20	0.0149	0.66	V Q				
0+25	0.0194	0.67	V Q				
0+30	0.0244	0.72	VQ				
0+35	0.0297	0.77	V Q				
0+40	0.0350	0.77	V Q				
0+45	0.0404	0.78	VQ				
0+50	0.0457	0.78	VQ				
0+55	0.0511	0.78	VQ				
1+ 0	0.0568	0.83	VQ				
1+ 5	0.0629	0.88	Q				
1+10	0.0690	0.89	Q				
1+15	0.0751	0.89	Q				
1+20	0.0812	0.89	QV				
1+25	0.0873	0.89	QV				
1+30	0.0934	0.89	QV				
1+35	0.0995	0.89	QV				
1+40	0.1056	0.89	Q V				
1+45	0.1117	0.89	Q V				
1+50	0.1178	0.89	Q V				
1+55	0.1240	0.89	Q V				
2+ 0	0.1305	0.94	Q V				
2+ 5	0.1369	0.93	Q V				
2+10	0.1434	0.95	Q V				
2+15	0.1503	0.99	Q V				
2+20	0.1571	1.00	Q V				
2+25	0.1640	1.00	Q V				
2+30	0.1709	1.00	Q V				
2+35	0.1777	1.00	Q V				
2+40	0.1846	1.00	Q V				
2+45	0.1919	1.06	Q V				
2+50	0.1995	1.10	Q V				
2+55	0.2071	1.11	Q V				
3+ 0	0.2147	1.11	Q V				
3+ 5	0.2224	1.11	Q V				
3+10	0.2304	1.17	Q V				
3+15	0.2387	1.21	Q V				
3+20	0.2471	1.22	Q V				
3+25	0.2559	1.28	Q V				
3+30	0.2654	1.38	Q V				
3+35	0.2756	1.49	Q V				
3+40	0.2863	1.54	Q V				
3+45	0.2973	1.61	Q V				
3+50	0.3087	1.65	Q V				
3+55	0.3206	1.72	Q V				
4+ 0	0.3327	1.77	Q V				
4+ 5	0.3453	1.83	Q V				
4+10	0.3586	1.93	Q V				
4+15	0.3727	2.04	Q V				
4+20	0.3877	2.17	Q V				

4+25	0.4036	2.31		Q		V		
4+30	0.4200	2.38		Q		V		
4+35	0.4370	2.46		Q		V		
4+40	0.4548	2.59		Q		V		
4+45	0.4736	2.73		Q		V		
4+50	0.4929	2.80		Q		V		
4+55	0.5128	2.88		Q		V		
5+ 0	0.5336	3.02		Q		V		
5+ 5	0.5573	3.44		Q		V		
5+10	0.5855	4.09		Q		V		
5+15	0.6174	4.64		Q		V		
5+20	0.6525	5.09		Q		V		
5+25	0.6915	5.66		Q		V		
5+30	0.7371	6.62		Q		V		
5+35	0.7682	4.51		Q		V		
5+40	0.7818	1.97		Q		V		
5+45	0.7888	1.02	Q			V		
5+50	0.7934	0.66	Q			V		
5+55	0.7965	0.46	Q			V		
6+ 0	0.7985	0.30	Q			V		
6+ 5	0.7994	0.12	Q			V		
6+10	0.7995	0.02	Q			V		
6+15	0.7996	0.00	Q			V		

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA1Q100UH2410.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-24HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
6.58	1.90	12.50

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	4.80	31.57

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 3.093(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 3.093(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.862	0.084	1.000	0.084
Sum (F) =						0.084

Area averaged mean soil loss (F) (In/Hr) = 0.084
 Minimum soil loss rate ((In/Hr)) = 0.042
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
		Sum = 100.000	Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.025	(0.148)	0.005	0.020
2	0.17	0.07	0.025	(0.148)	0.005	0.020
3	0.25	0.07	0.025	(0.147)	0.005	0.020
4	0.33	0.10	0.037	(0.146)	0.008	0.029
5	0.42	0.10	0.037	(0.146)	0.008	0.029
6	0.50	0.10	0.037	(0.145)	0.008	0.029
7	0.58	0.10	0.037	(0.145)	0.008	0.029
8	0.67	0.10	0.037	(0.144)	0.008	0.029
9	0.75	0.10	0.037	(0.144)	0.008	0.029
10	0.83	0.13	0.049	(0.143)	0.010	0.039
11	0.92	0.13	0.049	(0.142)	0.010	0.039
12	1.00	0.13	0.049	(0.142)	0.010	0.039
13	1.08	0.10	0.037	(0.141)	0.008	0.029
14	1.17	0.10	0.037	(0.141)	0.008	0.029
15	1.25	0.10	0.037	(0.140)	0.008	0.029
16	1.33	0.10	0.037	(0.140)	0.008	0.029
17	1.42	0.10	0.037	(0.139)	0.008	0.029
18	1.50	0.10	0.037	(0.139)	0.008	0.029
19	1.58	0.10	0.037	(0.138)	0.008	0.029
20	1.67	0.10	0.037	(0.137)	0.008	0.029
21	1.75	0.10	0.037	(0.137)	0.008	0.029
22	1.83	0.13	0.049	(0.136)	0.010	0.039
23	1.92	0.13	0.049	(0.136)	0.010	0.039
24	2.00	0.13	0.049	(0.135)	0.010	0.039
25	2.08	0.13	0.049	(0.135)	0.010	0.039
26	2.17	0.13	0.049	(0.134)	0.010	0.039
27	2.25	0.13	0.049	(0.134)	0.010	0.039
28	2.33	0.13	0.049	(0.133)	0.010	0.039
29	2.42	0.13	0.049	(0.133)	0.010	0.039
30	2.50	0.13	0.049	(0.132)	0.010	0.039
31	2.58	0.17	0.062	(0.131)	0.013	0.049
32	2.67	0.17	0.062	(0.131)	0.013	0.049
33	2.75	0.17	0.062	(0.130)	0.013	0.049
34	2.83	0.17	0.062	(0.130)	0.013	0.049
35	2.92	0.17	0.062	(0.129)	0.013	0.049
36	3.00	0.17	0.062	(0.129)	0.013	0.049
37	3.08	0.17	0.062	(0.128)	0.013	0.049
38	3.17	0.17	0.062	(0.128)	0.013	0.049
39	3.25	0.17	0.062	(0.127)	0.013	0.049
40	3.33	0.17	0.062	(0.127)	0.013	0.049
41	3.42	0.17	0.062	(0.126)	0.013	0.049
42	3.50	0.17	0.062	(0.126)	0.013	0.049
43	3.58	0.17	0.062	(0.125)	0.013	0.049
44	3.67	0.17	0.062	(0.125)	0.013	0.049
45	3.75	0.17	0.062	(0.124)	0.013	0.049

46	3.83	0.20	0.074	(0.123)	0.016	0.059
47	3.92	0.20	0.074	(0.123)	0.016	0.059
48	4.00	0.20	0.074	(0.122)	0.016	0.059
49	4.08	0.20	0.074	(0.122)	0.016	0.059
50	4.17	0.20	0.074	(0.121)	0.016	0.059
51	4.25	0.20	0.074	(0.121)	0.016	0.059
52	4.33	0.23	0.087	(0.120)	0.018	0.068
53	4.42	0.23	0.087	(0.120)	0.018	0.068
54	4.50	0.23	0.087	(0.119)	0.018	0.068
55	4.58	0.23	0.087	(0.119)	0.018	0.068
56	4.67	0.23	0.087	(0.118)	0.018	0.068
57	4.75	0.23	0.087	(0.118)	0.018	0.068
58	4.83	0.27	0.099	(0.117)	0.021	0.078
59	4.92	0.27	0.099	(0.117)	0.021	0.078
60	5.00	0.27	0.099	(0.116)	0.021	0.078
61	5.08	0.20	0.074	(0.116)	0.016	0.059
62	5.17	0.20	0.074	(0.115)	0.016	0.059
63	5.25	0.20	0.074	(0.115)	0.016	0.059
64	5.33	0.23	0.087	(0.114)	0.018	0.068
65	5.42	0.23	0.087	(0.114)	0.018	0.068
66	5.50	0.23	0.087	(0.113)	0.018	0.068
67	5.58	0.27	0.099	(0.113)	0.021	0.078
68	5.67	0.27	0.099	(0.112)	0.021	0.078
69	5.75	0.27	0.099	(0.112)	0.021	0.078
70	5.83	0.27	0.099	(0.111)	0.021	0.078
71	5.92	0.27	0.099	(0.111)	0.021	0.078
72	6.00	0.27	0.099	(0.110)	0.021	0.078
73	6.08	0.30	0.111	(0.110)	0.023	0.088
74	6.17	0.30	0.111	(0.109)	0.023	0.088
75	6.25	0.30	0.111	(0.109)	0.023	0.088
76	6.33	0.30	0.111	(0.108)	0.023	0.088
77	6.42	0.30	0.111	(0.108)	0.023	0.088
78	6.50	0.30	0.111	(0.107)	0.023	0.088
79	6.58	0.33	0.124	(0.107)	0.026	0.098
80	6.67	0.33	0.124	(0.106)	0.026	0.098
81	6.75	0.33	0.124	(0.106)	0.026	0.098
82	6.83	0.33	0.124	(0.105)	0.026	0.098
83	6.92	0.33	0.124	(0.105)	0.026	0.098
84	7.00	0.33	0.124	(0.105)	0.026	0.098
85	7.08	0.33	0.124	(0.104)	0.026	0.098
86	7.17	0.33	0.124	(0.104)	0.026	0.098
87	7.25	0.33	0.124	(0.103)	0.026	0.098
88	7.33	0.37	0.136	(0.103)	0.029	0.108
89	7.42	0.37	0.136	(0.102)	0.029	0.108
90	7.50	0.37	0.136	(0.102)	0.029	0.108
91	7.58	0.40	0.148	(0.101)	0.031	0.117
92	7.67	0.40	0.148	(0.101)	0.031	0.117
93	7.75	0.40	0.148	(0.100)	0.031	0.117
94	7.83	0.43	0.161	(0.100)	0.034	0.127
95	7.92	0.43	0.161	(0.099)	0.034	0.127

96	8.00	0.43	0.161	(0.099)	0.034	0.127
97	8.08	0.50	0.186	(0.098)	0.039	0.147
98	8.17	0.50	0.186	(0.098)	0.039	0.147
99	8.25	0.50	0.186	(0.098)	0.039	0.147
100	8.33	0.50	0.186	(0.097)	0.039	0.147
101	8.42	0.50	0.186	(0.097)	0.039	0.147
102	8.50	0.50	0.186	(0.096)	0.039	0.147
103	8.58	0.53	0.198	(0.096)	0.042	0.156
104	8.67	0.53	0.198	(0.095)	0.042	0.156
105	8.75	0.53	0.198	(0.095)	0.042	0.156
106	8.83	0.57	0.210	(0.094)	0.044	0.166
107	8.92	0.57	0.210	(0.094)	0.044	0.166
108	9.00	0.57	0.210	(0.093)	0.044	0.166
109	9.08	0.63	0.235	(0.093)	0.049	0.186
110	9.17	0.63	0.235	(0.093)	0.049	0.186
111	9.25	0.63	0.235	(0.092)	0.049	0.186
112	9.33	0.67	0.247	(0.092)	0.052	0.195
113	9.42	0.67	0.247	(0.091)	0.052	0.195
114	9.50	0.67	0.247	(0.091)	0.052	0.195
115	9.58	0.70	0.260	(0.090)	0.055	0.205
116	9.67	0.70	0.260	(0.090)	0.055	0.205
117	9.75	0.70	0.260	(0.090)	0.055	0.205
118	9.83	0.73	0.272	(0.089)	0.057	0.215
119	9.92	0.73	0.272	(0.089)	0.057	0.215
120	10.00	0.73	0.272	(0.088)	0.057	0.215
121	10.08	0.50	0.186	(0.088)	0.039	0.147
122	10.17	0.50	0.186	(0.087)	0.039	0.147
123	10.25	0.50	0.186	(0.087)	0.039	0.147
124	10.33	0.50	0.186	(0.087)	0.039	0.147
125	10.42	0.50	0.186	(0.086)	0.039	0.147
126	10.50	0.50	0.186	(0.086)	0.039	0.147
127	10.58	0.67	0.247	(0.085)	0.052	0.195
128	10.67	0.67	0.247	(0.085)	0.052	0.195
129	10.75	0.67	0.247	(0.084)	0.052	0.195
130	10.83	0.67	0.247	(0.084)	0.052	0.195
131	10.92	0.67	0.247	(0.084)	0.052	0.195
132	11.00	0.67	0.247	(0.083)	0.052	0.195
133	11.08	0.63	0.235	(0.083)	0.049	0.186
134	11.17	0.63	0.235	(0.082)	0.049	0.186
135	11.25	0.63	0.235	(0.082)	0.049	0.186
136	11.33	0.63	0.235	(0.082)	0.049	0.186
137	11.42	0.63	0.235	(0.081)	0.049	0.186
138	11.50	0.63	0.235	(0.081)	0.049	0.186
139	11.58	0.57	0.210	(0.080)	0.044	0.166
140	11.67	0.57	0.210	(0.080)	0.044	0.166
141	11.75	0.57	0.210	(0.080)	0.044	0.166
142	11.83	0.60	0.223	(0.079)	0.047	0.176
143	11.92	0.60	0.223	(0.079)	0.047	0.176
144	12.00	0.60	0.223	(0.078)	0.047	0.176
145	12.08	0.83	0.309	(0.078)	0.065	0.244

146	12.17	0.83	0.309	(0.078)	0.065	0.244
147	12.25	0.83	0.309	(0.077)	0.065	0.244
148	12.33	0.87	0.322	(0.077)	0.068	0.254
149	12.42	0.87	0.322	(0.076)	0.068	0.254
150	12.50	0.87	0.322	(0.076)	0.068	0.254
151	12.58	0.93	0.346	(0.076)	0.073	0.274
152	12.67	0.93	0.346	(0.075)	0.073	0.274
153	12.75	0.93	0.346	(0.075)	0.073	0.274
154	12.83	0.97	0.359	0.075 (0.075)		0.284
155	12.92	0.97	0.359	0.074 (0.075)		0.285
156	13.00	0.97	0.359	0.074 (0.075)		0.285
157	13.08	1.13	0.421	0.073 (0.088)		0.347
158	13.17	1.13	0.421	0.073 (0.088)		0.348
159	13.25	1.13	0.421	0.073 (0.088)		0.348
160	13.33	1.13	0.421	0.072 (0.088)		0.348
161	13.42	1.13	0.421	0.072 (0.088)		0.349
162	13.50	1.13	0.421	0.072 (0.088)		0.349
163	13.58	0.77	0.285	(0.071)	0.060	0.225
164	13.67	0.77	0.285	(0.071)	0.060	0.225
165	13.75	0.77	0.285	(0.071)	0.060	0.225
166	13.83	0.77	0.285	(0.070)	0.060	0.225
167	13.92	0.77	0.285	(0.070)	0.060	0.225
168	14.00	0.77	0.285	(0.069)	0.060	0.225
169	14.08	0.90	0.334	0.069 (0.070)		0.265
170	14.17	0.90	0.334	0.069 (0.070)		0.265
171	14.25	0.90	0.334	0.068 (0.070)		0.266
172	14.33	0.87	0.322	(0.068)	0.068	0.254
173	14.42	0.87	0.322	(0.068)	0.068	0.254
174	14.50	0.87	0.322	0.067 (0.068)		0.254
175	14.58	0.87	0.322	0.067 (0.068)		0.255
176	14.67	0.87	0.322	0.067 (0.068)		0.255
177	14.75	0.87	0.322	0.066 (0.068)		0.255
178	14.83	0.83	0.309	(0.066)	0.065	0.244
179	14.92	0.83	0.309	(0.066)	0.065	0.244
180	15.00	0.83	0.309	(0.065)	0.065	0.244
181	15.08	0.80	0.297	(0.065)	0.062	0.235
182	15.17	0.80	0.297	(0.065)	0.062	0.235
183	15.25	0.80	0.297	(0.064)	0.062	0.235
184	15.33	0.77	0.285	(0.064)	0.060	0.225
185	15.42	0.77	0.285	(0.064)	0.060	0.225
186	15.50	0.77	0.285	(0.063)	0.060	0.225
187	15.58	0.63	0.235	(0.063)	0.049	0.186
188	15.67	0.63	0.235	(0.063)	0.049	0.186
189	15.75	0.63	0.235	(0.062)	0.049	0.186
190	15.83	0.63	0.235	(0.062)	0.049	0.186
191	15.92	0.63	0.235	(0.062)	0.049	0.186
192	16.00	0.63	0.235	(0.061)	0.049	0.186
193	16.08	0.13	0.049	(0.061)	0.010	0.039
194	16.17	0.13	0.049	(0.061)	0.010	0.039
195	16.25	0.13	0.049	(0.060)	0.010	0.039

196	16.33	0.13	0.049	(0.060)	0.010	0.039
197	16.42	0.13	0.049	(0.060)	0.010	0.039
198	16.50	0.13	0.049	(0.060)	0.010	0.039
199	16.58	0.10	0.037	(0.059)	0.008	0.029
200	16.67	0.10	0.037	(0.059)	0.008	0.029
201	16.75	0.10	0.037	(0.059)	0.008	0.029
202	16.83	0.10	0.037	(0.058)	0.008	0.029
203	16.92	0.10	0.037	(0.058)	0.008	0.029
204	17.00	0.10	0.037	(0.058)	0.008	0.029
205	17.08	0.17	0.062	(0.057)	0.013	0.049
206	17.17	0.17	0.062	(0.057)	0.013	0.049
207	17.25	0.17	0.062	(0.057)	0.013	0.049
208	17.33	0.17	0.062	(0.057)	0.013	0.049
209	17.42	0.17	0.062	(0.056)	0.013	0.049
210	17.50	0.17	0.062	(0.056)	0.013	0.049
211	17.58	0.17	0.062	(0.056)	0.013	0.049
212	17.67	0.17	0.062	(0.055)	0.013	0.049
213	17.75	0.17	0.062	(0.055)	0.013	0.049
214	17.83	0.13	0.049	(0.055)	0.010	0.039
215	17.92	0.13	0.049	(0.055)	0.010	0.039
216	18.00	0.13	0.049	(0.054)	0.010	0.039
217	18.08	0.13	0.049	(0.054)	0.010	0.039
218	18.17	0.13	0.049	(0.054)	0.010	0.039
219	18.25	0.13	0.049	(0.054)	0.010	0.039
220	18.33	0.13	0.049	(0.053)	0.010	0.039
221	18.42	0.13	0.049	(0.053)	0.010	0.039
222	18.50	0.13	0.049	(0.053)	0.010	0.039
223	18.58	0.10	0.037	(0.053)	0.008	0.029
224	18.67	0.10	0.037	(0.052)	0.008	0.029
225	18.75	0.10	0.037	(0.052)	0.008	0.029
226	18.83	0.07	0.025	(0.052)	0.005	0.020
227	18.92	0.07	0.025	(0.052)	0.005	0.020
228	19.00	0.07	0.025	(0.051)	0.005	0.020
229	19.08	0.10	0.037	(0.051)	0.008	0.029
230	19.17	0.10	0.037	(0.051)	0.008	0.029
231	19.25	0.10	0.037	(0.051)	0.008	0.029
232	19.33	0.13	0.049	(0.050)	0.010	0.039
233	19.42	0.13	0.049	(0.050)	0.010	0.039
234	19.50	0.13	0.049	(0.050)	0.010	0.039
235	19.58	0.10	0.037	(0.050)	0.008	0.029
236	19.67	0.10	0.037	(0.049)	0.008	0.029
237	19.75	0.10	0.037	(0.049)	0.008	0.029
238	19.83	0.07	0.025	(0.049)	0.005	0.020
239	19.92	0.07	0.025	(0.049)	0.005	0.020
240	20.00	0.07	0.025	(0.049)	0.005	0.020
241	20.08	0.10	0.037	(0.048)	0.008	0.029
242	20.17	0.10	0.037	(0.048)	0.008	0.029
243	20.25	0.10	0.037	(0.048)	0.008	0.029
244	20.33	0.10	0.037	(0.048)	0.008	0.029
245	20.42	0.10	0.037	(0.047)	0.008	0.029

246	20.50	0.10	0.037	(0.047)	0.008	0.029
247	20.58	0.10	0.037	(0.047)	0.008	0.029
248	20.67	0.10	0.037	(0.047)	0.008	0.029
249	20.75	0.10	0.037	(0.047)	0.008	0.029
250	20.83	0.07	0.025	(0.047)	0.005	0.020
251	20.92	0.07	0.025	(0.046)	0.005	0.020
252	21.00	0.07	0.025	(0.046)	0.005	0.020
253	21.08	0.10	0.037	(0.046)	0.008	0.029
254	21.17	0.10	0.037	(0.046)	0.008	0.029
255	21.25	0.10	0.037	(0.046)	0.008	0.029
256	21.33	0.07	0.025	(0.045)	0.005	0.020
257	21.42	0.07	0.025	(0.045)	0.005	0.020
258	21.50	0.07	0.025	(0.045)	0.005	0.020
259	21.58	0.10	0.037	(0.045)	0.008	0.029
260	21.67	0.10	0.037	(0.045)	0.008	0.029
261	21.75	0.10	0.037	(0.045)	0.008	0.029
262	21.83	0.07	0.025	(0.044)	0.005	0.020
263	21.92	0.07	0.025	(0.044)	0.005	0.020
264	22.00	0.07	0.025	(0.044)	0.005	0.020
265	22.08	0.10	0.037	(0.044)	0.008	0.029
266	22.17	0.10	0.037	(0.044)	0.008	0.029
267	22.25	0.10	0.037	(0.044)	0.008	0.029
268	22.33	0.07	0.025	(0.044)	0.005	0.020
269	22.42	0.07	0.025	(0.043)	0.005	0.020
270	22.50	0.07	0.025	(0.043)	0.005	0.020
271	22.58	0.07	0.025	(0.043)	0.005	0.020
272	22.67	0.07	0.025	(0.043)	0.005	0.020
273	22.75	0.07	0.025	(0.043)	0.005	0.020
274	22.83	0.07	0.025	(0.043)	0.005	0.020
275	22.92	0.07	0.025	(0.043)	0.005	0.020
276	23.00	0.07	0.025	(0.043)	0.005	0.020
277	23.08	0.07	0.025	(0.043)	0.005	0.020
278	23.17	0.07	0.025	(0.042)	0.005	0.020
279	23.25	0.07	0.025	(0.042)	0.005	0.020
280	23.33	0.07	0.025	(0.042)	0.005	0.020
281	23.42	0.07	0.025	(0.042)	0.005	0.020
282	23.50	0.07	0.025	(0.042)	0.005	0.020
283	23.58	0.07	0.025	(0.042)	0.005	0.020
284	23.67	0.07	0.025	(0.042)	0.005	0.020
285	23.75	0.07	0.025	(0.042)	0.005	0.020
286	23.83	0.07	0.025	(0.042)	0.005	0.020
287	23.92	0.07	0.025	(0.042)	0.005	0.020
288	24.00	0.07	0.025	(0.042)	0.005	0.020

(Loss Rate Not Used)

Sum = 100.0

Sum = 29.4

Flood volume = Effective rainfall 2.45(In)
times area 6.6(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)

Total soil loss = 0.64(In)

Total soil loss = 0.351(Ac.Ft)

Total rainfall = 3.09(In)

Flood volume = 58556.7 Cubic Feet
 Total soil loss = 15299.4 Cubic Feet

 Peak flow rate of this hydrograph = 2.314(CFS)

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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	0.0005	0.07	Q				
0+10	0.0013	0.12	Q				
0+15	0.0021	0.13	Q				
0+20	0.0033	0.16	Q				
0+25	0.0046	0.19	Q				
0+30	0.0059	0.19	Q				
0+35	0.0072	0.19	Q				
0+40	0.0086	0.19	Q				
0+45	0.0099	0.19	Q				
0+50	0.0115	0.23	Q				
0+55	0.0132	0.25	VQ				
1+ 0	0.0150	0.26	VQ				
1+ 5	0.0166	0.23	Q				
1+10	0.0179	0.20	Q				
1+15	0.0193	0.20	Q				
1+20	0.0206	0.19	Q				
1+25	0.0220	0.19	Q				
1+30	0.0233	0.19	Q				
1+35	0.0247	0.19	Q				
1+40	0.0260	0.19	Q				
1+45	0.0273	0.19	Q				
1+50	0.0289	0.23	Q				
1+55	0.0306	0.25	VQ				
2+ 0	0.0324	0.26	VQ				
2+ 5	0.0342	0.26	Q				
2+10	0.0360	0.26	Q				
2+15	0.0378	0.26	Q				
2+20	0.0396	0.26	Q				
2+25	0.0414	0.26	Q				
2+30	0.0431	0.26	Q				
2+35	0.0452	0.29	Q				
2+40	0.0474	0.32	Q				
2+45	0.0496	0.32	Q				
2+50	0.0518	0.32	Q				
2+55	0.0540	0.32	Q				
3+ 0	0.0563	0.32	Q				

3+ 5	0.0585	0.32	Q				
3+10	0.0607	0.32	Q				
3+15	0.0630	0.32	Q				
3+20	0.0652	0.32	Q				
3+25	0.0674	0.32	QV				
3+30	0.0697	0.32	QV				
3+35	0.0719	0.32	QV				
3+40	0.0741	0.32	QV				
3+45	0.0764	0.32	QV				
3+50	0.0788	0.36	QV				
3+55	0.0815	0.38	QV				
4+ 0	0.0841	0.39	QV				
4+ 5	0.0868	0.39	QV				
4+10	0.0895	0.39	QV				
4+15	0.0922	0.39	QV				
4+20	0.0951	0.42	QV				
4+25	0.0982	0.45	QV				
4+30	0.1013	0.45	Q V				
4+35	0.1044	0.45	Q V				
4+40	0.1075	0.45	Q V				
4+45	0.1107	0.45	Q V				
4+50	0.1140	0.49	Q V				
4+55	0.1175	0.51	QV				
5+ 0	0.1211	0.52	QV				
5+ 5	0.1242	0.45	Q V				
5+10	0.1270	0.40	Q V				
5+15	0.1297	0.39	Q V				
5+20	0.1326	0.42	Q V				
5+25	0.1357	0.45	Q V				
5+30	0.1388	0.45	Q V				
5+35	0.1421	0.49	Q V				
5+40	0.1457	0.51	Q V				
5+45	0.1492	0.52	Q V				
5+50	0.1528	0.52	Q V				
5+55	0.1564	0.52	Q V				
6+ 0	0.1600	0.52	Q V				
6+ 5	0.1638	0.55	Q V				
6+10	0.1677	0.58	Q V				
6+15	0.1717	0.58	Q V				
6+20	0.1758	0.58	Q V				
6+25	0.1798	0.58	Q V				
6+30	0.1838	0.58	Q V				
6+35	0.1880	0.62	Q V				
6+40	0.1925	0.64	Q V				
6+45	0.1969	0.65	Q V				
6+50	0.2014	0.65	Q V				
6+55	0.2059	0.65	Q V				
7+ 0	0.2103	0.65	Q V				
7+ 5	0.2148	0.65	Q V				
7+10	0.2193	0.65	Q V				

7+15	0.2237	0.65	Q	V				
7+20	0.2284	0.68	Q	V				
7+25	0.2333	0.71	Q	V				
7+30	0.2382	0.71	Q	V				
7+35	0.2433	0.75	Q	V				
7+40	0.2486	0.77	Q	V				
7+45	0.2540	0.78	Q	V				
7+50	0.2596	0.81	Q	V				
7+55	0.2653	0.84	Q	V				
8+ 0	0.2711	0.84	Q	V				
8+ 5	0.2774	0.91	Q	V				
8+10	0.2840	0.96	Q	V				
8+15	0.2907	0.97	Q	V				
8+20	0.2974	0.97	Q	V				
8+25	0.3041	0.97	Q	V				
8+30	0.3108	0.97	Q	V				
8+35	0.3177	1.01	Q	V				
8+40	0.3248	1.03	Q	V				
8+45	0.3320	1.04	Q	V				
8+50	0.3393	1.07	Q	V				
8+55	0.3469	1.10	Q	V				
9+ 0	0.3545	1.10	Q	V				
9+ 5	0.3625	1.17	Q	V				
9+10	0.3709	1.22	Q	V				
9+15	0.3794	1.23	Q	V				
9+20	0.3881	1.27	Q	V				
9+25	0.3970	1.29	Q	V				
9+30	0.4059	1.30	Q	V				
9+35	0.4151	1.33	Q	V				
9+40	0.4244	1.36	Q	V				
9+45	0.4338	1.36	Q	V				
9+50	0.4434	1.39	Q	V				
9+55	0.4532	1.42	Q	V				
10+ 0	0.4630	1.43	Q	V				
10+ 5	0.4712	1.19	Q	V				
10+10	0.4782	1.01	Q	V				
10+15	0.4849	0.98	Q	V				
10+20	0.4916	0.97	Q	V				
10+25	0.4983	0.97	Q	V				
10+30	0.5050	0.97	Q	V				
10+35	0.5129	1.14	Q	V				
10+40	0.5216	1.27	Q	V				
10+45	0.5305	1.29	Q	V				
10+50	0.5394	1.30	Q	V				
10+55	0.5483	1.30	Q	V				
11+ 0	0.5573	1.30	Q	V				
11+ 5	0.5660	1.26	Q	V				
11+10	0.5745	1.24	Q	V				
11+15	0.5830	1.23	Q	V				
11+20	0.5915	1.23	Q	V				

11+25	0.6000	1.23	Q	V			
11+30	0.6084	1.23	Q	V			
11+35	0.6165	1.17	Q	V			
11+40	0.6241	1.11	Q	V			
11+45	0.6317	1.10	Q	V			
11+50	0.6396	1.14	Q	V			
11+55	0.6476	1.16	Q	V			
12+ 0	0.6556	1.17	Q	V			
12+ 5	0.6652	1.40	Q	V			
12+10	0.6761	1.58	Q	V			
12+15	0.6872	1.61	Q	V			
12+20	0.6986	1.65	Q	V			
12+25	0.7102	1.68	Q	V			
12+30	0.7218	1.68	Q	V			
12+35	0.7338	1.75	Q	V			
12+40	0.7463	1.80	Q	V			
12+45	0.7588	1.81	Q	V			
12+50	0.7715	1.85	Q	V			
12+55	0.7844	1.88	Q	V			
13+ 0	0.7974	1.89	Q	V			
13+ 5	0.8119	2.10	Q	V			
13+10	0.8275	2.27	Q	V			
13+15	0.8434	2.30	Q	V			
13+20	0.8593	2.31	Q	V			
13+25	0.8752	2.31	Q	V			
13+30	0.8911	2.31	Q	V			
13+35	0.9042	1.89	Q	V			
13+40	0.9149	1.56	Q	V			
13+45	0.9253	1.51	Q	V			
13+50	0.9356	1.49	Q	V			
13+55	0.9458	1.49	Q	V			
14+ 0	0.9561	1.49	Q	V			
14+ 5	0.9673	1.63	Q	V			
14+10	0.9793	1.74	Q	V			
14+15	0.9914	1.76	Q	V			
14+20	1.0032	1.72	Q	V			
14+25	1.0149	1.69	Q	V			
14+30	1.0265	1.69	Q	V			
14+35	1.0381	1.69	Q	V			
14+40	1.0498	1.69	Q	V			
14+45	1.0614	1.69	Q	V			
14+50	1.0728	1.66	Q	V			
14+55	1.0840	1.63	Q	V			
15+ 0	1.0952	1.62	Q	V			
15+ 5	1.1061	1.59	Q	V			
15+10	1.1169	1.56	Q	V			
15+15	1.1276	1.56	Q	V			
15+20	1.1381	1.52	Q	V			
15+25	1.1484	1.50	Q	V			
15+30	1.1587	1.49	Q	V			

15+35	1.1681	1.36	Q	V
15+40	1.1767	1.25	Q	V
15+45	1.1852	1.24	Q	V
15+50	1.1937	1.23	Q	V
15+55	1.2022	1.23	Q	V
16+ 0	1.2107	1.23	Q	V
16+ 5	1.2157	0.73	Q	V
16+10	1.2181	0.34	Q	V
16+15	1.2200	0.28	Q	V
16+20	1.2218	0.26	Q	V
16+25	1.2236	0.26	Q	V
16+30	1.2253	0.26	Q	V
16+35	1.2269	0.23	Q	V
16+40	1.2283	0.20	Q	V
16+45	1.2296	0.20	Q	V
16+50	1.2310	0.19	Q	V
16+55	1.2323	0.19	Q	V
17+ 0	1.2336	0.19	Q	V
17+ 5	1.2354	0.26	Q	V
17+10	1.2376	0.31	Q	V
17+15	1.2398	0.32	Q	V
17+20	1.2420	0.32	Q	V
17+25	1.2443	0.32	Q	V
17+30	1.2465	0.32	Q	V
17+35	1.2487	0.32	Q	V
17+40	1.2510	0.32	Q	V
17+45	1.2532	0.32	Q	V
17+50	1.2552	0.29	Q	V
17+55	1.2570	0.27	Q	V
18+ 0	1.2588	0.26	Q	V
18+ 5	1.2606	0.26	Q	V
18+10	1.2624	0.26	Q	V
18+15	1.2642	0.26	Q	V
18+20	1.2660	0.26	Q	V
18+25	1.2678	0.26	Q	V
18+30	1.2695	0.26	Q	V
18+35	1.2711	0.23	Q	V
18+40	1.2725	0.20	Q	V
18+45	1.2738	0.20	Q	V
18+50	1.2749	0.16	Q	V
18+55	1.2759	0.14	Q	V
19+ 0	1.2768	0.13	Q	V
19+ 5	1.2779	0.16	Q	V
19+10	1.2792	0.19	Q	V
19+15	1.2805	0.19	Q	V
19+20	1.2821	0.23	Q	V
19+25	1.2838	0.25	Q	V
19+30	1.2856	0.26	Q	V
19+35	1.2872	0.23	Q	V
19+40	1.2886	0.20	Q	V

19+45	1.2899	0.20	Q				V
19+50	1.2910	0.16	Q				V
19+55	1.2919	0.14	Q				V
20+ 0	1.2928	0.13	Q				V
20+ 5	1.2940	0.16	Q				V
20+10	1.2953	0.19	Q				V
20+15	1.2966	0.19	Q				V
20+20	1.2979	0.19	Q				V
20+25	1.2993	0.19	Q				V
20+30	1.3006	0.19	Q				V
20+35	1.3020	0.19	Q				V
20+40	1.3033	0.19	Q				V
20+45	1.3046	0.19	Q				V
20+50	1.3057	0.16	Q				V
20+55	1.3067	0.14	Q				V
21+ 0	1.3076	0.13	Q				V
21+ 5	1.3087	0.16	Q				V
21+10	1.3100	0.19	Q				V
21+15	1.3113	0.19	Q				V
21+20	1.3124	0.16	Q				V
21+25	1.3134	0.14	Q				V
21+30	1.3143	0.13	Q				V
21+35	1.3154	0.16	Q				V
21+40	1.3167	0.19	Q				V
21+45	1.3180	0.19	Q				V
21+50	1.3191	0.16	Q				V
21+55	1.3201	0.14	Q				V
22+ 0	1.3210	0.13	Q				V
22+ 5	1.3221	0.16	Q				V
22+10	1.3234	0.19	Q				V
22+15	1.3247	0.19	Q				V
22+20	1.3258	0.16	Q				V
22+25	1.3268	0.14	Q				V
22+30	1.3277	0.13	Q				V
22+35	1.3286	0.13	Q				V
22+40	1.3295	0.13	Q				V
22+45	1.3304	0.13	Q				V
22+50	1.3312	0.13	Q				V
22+55	1.3321	0.13	Q				V
23+ 0	1.3330	0.13	Q				V
23+ 5	1.3339	0.13	Q				V
23+10	1.3348	0.13	Q				V
23+15	1.3357	0.13	Q				V
23+20	1.3366	0.13	Q				V
23+25	1.3375	0.13	Q				V
23+30	1.3384	0.13	Q				V
23+35	1.3393	0.13	Q				V
23+40	1.3402	0.13	Q				V
23+45	1.3411	0.13	Q				V
23+50	1.3420	0.13	Q				V

23+55	1.3429	0.13	Q				V
24+ 0	1.3437	0.13	Q				V
24+ 5	1.3442	0.06	Q				V
24+10	1.3443	0.01	Q				V
24+15	1.3443	0.00	Q				V

DMA 1 Proposed 100-Year

Unit Hydrograph Analysis

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Study date 08/02/22 File: a21626dma1q100uh1100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR - 1HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	0.48	3.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.25	8.22

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 1.250(In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 1.250(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.862	0.043	1.000	0.043
Sum (F) =						0.043

Area averaged mean soil loss (F) (In/Hr) = 0.043
 Minimum soil loss rate ((In/Hr)) = 0.022
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

0+55	0.5875	14.94				Q	V	
1+ 0	0.6381	7.34			Q			V
1+ 5	0.6576	2.83		Q				V
1+10	0.6607	0.46	Q					V
1+15	0.6613	0.09	Q					V

Unit Hydrograph Analysis

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Study date 08/02/22 File: a21626dma1q100uh3100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR - 6HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
6.58	0.80	5.26

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.95	12.83

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.950(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.950(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.862	0.043	1.000	0.043
Sum (F) =						0.043

Area averaged mean soil loss (F) (In/Hr) = 0.043
 Minimum soil loss rate ((In/Hr)) = 0.022
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

 Peak flow rate of this hydrograph = 11.594(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	5.0	10.0	15.0	20.0
0+ 5	0.0061	0.89	VQ				
0+10	0.0170	1.58	V Q				
0+15	0.0276	1.54	V Q				
0+20	0.0397	1.77	V Q				
0+25	0.0534	1.99	VQ				
0+30	0.0691	2.27	V Q				
0+35	0.0844	2.23	VQ				
0+40	0.1003	2.31	Q				
0+45	0.1173	2.47	Q				
0+50	0.1329	2.26	QV				
0+55	0.1478	2.16	QV				
1+ 0	0.1639	2.35	Q V				
1+ 5	0.1832	2.79	Q V				
1+10	0.2043	3.07	Q V				
1+15	0.2257	3.11	Q V				
1+20	0.2462	2.97	Q V				
1+25	0.2691	3.32	Q V				
1+30	0.2949	3.75	Q V				
1+35	0.3199	3.63	Q V				
1+40	0.3455	3.71	Q V				
1+45	0.3754	4.35	Q V				
1+50	0.4070	4.58	Q V				
1+55	0.4371	4.37	Q V				
2+ 0	0.4669	4.33	Q V				
2+ 5	0.4975	4.44	Q V				
2+10	0.5346	5.38	Q V				
2+15	0.5808	6.72	Q V				
2+20	0.6230	6.13	Q V				
2+25	0.6778	7.96	Q V				
2+30	0.7485	10.26	Q V				
2+35	0.8283	11.59	Q V				
2+40	0.9004	10.47	Q V				
2+45	0.9421	6.05	Q V				
2+50	0.9645	3.26	Q V				
2+55	0.9827	2.65	Q V				
3+ 0	0.9938	1.60	Q V				
3+ 5	0.9973	0.51	Q V				
3+10	0.9980	0.10	Q V				

3+15

0.9981

0.01 Q

|

|

|

V

Unit Hydrograph Analysis

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Study date 08/02/22 File: a21626dma1q100uh6100.out

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

Program License Serial Number 6509

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

English Units used in output format

A2126 100 YR - 6 HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	1.11	7.30

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	2.70	17.76

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 2.700(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.700(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.862	0.043	1.000	0.043
Sum (F) =						0.043

Area averaged mean soil loss (F) (In/Hr) = 0.043
 Minimum soil loss rate ((In/Hr)) = 0.022
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.162	(0.043)	0.034	0.128
2	0.17	0.60	0.194	(0.043)	0.041	0.154
3	0.25	0.60	0.194	(0.043)	0.041	0.154
4	0.33	0.60	0.194	(0.043)	0.041	0.154
5	0.42	0.60	0.194	(0.043)	0.041	0.154
6	0.50	0.70	0.227	0.043	(0.048)	0.183
7	0.58	0.70	0.227	0.043	(0.048)	0.183
8	0.67	0.70	0.227	0.043	(0.048)	0.183
9	0.75	0.70	0.227	0.043	(0.048)	0.183
10	0.83	0.70	0.227	0.043	(0.048)	0.183
11	0.92	0.70	0.227	0.043	(0.048)	0.183
12	1.00	0.80	0.259	0.043	(0.054)	0.216
13	1.08	0.80	0.259	0.043	(0.054)	0.216
14	1.17	0.80	0.259	0.043	(0.054)	0.216
15	1.25	0.80	0.259	0.043	(0.054)	0.216
16	1.33	0.80	0.259	0.043	(0.054)	0.216
17	1.42	0.80	0.259	0.043	(0.054)	0.216
18	1.50	0.80	0.259	0.043	(0.054)	0.216
19	1.58	0.80	0.259	0.043	(0.054)	0.216
20	1.67	0.80	0.259	0.043	(0.054)	0.216
21	1.75	0.80	0.259	0.043	(0.054)	0.216
22	1.83	0.80	0.259	0.043	(0.054)	0.216
23	1.92	0.80	0.259	0.043	(0.054)	0.216
24	2.00	0.90	0.292	0.043	(0.061)	0.248
25	2.08	0.80	0.259	0.043	(0.054)	0.216
26	2.17	0.90	0.292	0.043	(0.061)	0.248
27	2.25	0.90	0.292	0.043	(0.061)	0.248
28	2.33	0.90	0.292	0.043	(0.061)	0.248
29	2.42	0.90	0.292	0.043	(0.061)	0.248
30	2.50	0.90	0.292	0.043	(0.061)	0.248
31	2.58	0.90	0.292	0.043	(0.061)	0.248
32	2.67	0.90	0.292	0.043	(0.061)	0.248
33	2.75	1.00	0.324	0.043	(0.068)	0.281
34	2.83	1.00	0.324	0.043	(0.068)	0.281
35	2.92	1.00	0.324	0.043	(0.068)	0.281
36	3.00	1.00	0.324	0.043	(0.068)	0.281
37	3.08	1.00	0.324	0.043	(0.068)	0.281
38	3.17	1.10	0.356	0.043	(0.075)	0.313
39	3.25	1.10	0.356	0.043	(0.075)	0.313
40	3.33	1.10	0.356	0.043	(0.075)	0.313
41	3.42	1.20	0.389	0.043	(0.082)	0.345
42	3.50	1.30	0.421	0.043	(0.088)	0.378
43	3.58	1.40	0.454	0.043	(0.095)	0.410
44	3.67	1.40	0.454	0.043	(0.095)	0.410
45	3.75	1.50	0.486	0.043	(0.102)	0.443

0+15	0.0157	0.99	VQ				
0+20	0.0227	1.02	V Q				
0+25	0.0297	1.02	V Q				
0+30	0.0375	1.12	VQ				
0+35	0.0457	1.20	VQ				
0+40	0.0541	1.21	VQ				
0+45	0.0624	1.22	VQ				
0+50	0.0708	1.22	Q				
0+55	0.0792	1.22	Q				
1+ 0	0.0883	1.33	Q				
1+ 5	0.0980	1.41	Q				
1+10	0.1079	1.43	QV				
1+15	0.1177	1.43	QV				
1+20	0.1276	1.43	QV				
1+25	0.1374	1.43	Q V				
1+30	0.1473	1.43	Q V				
1+35	0.1572	1.43	Q V				
1+40	0.1670	1.43	Q V				
1+45	0.1769	1.43	Q V				
1+50	0.1867	1.43	Q V				
1+55	0.1966	1.43	Q V				
2+ 0	0.2072	1.54	Q V				
2+ 5	0.2176	1.52	Q V				
2+10	0.2283	1.56	Q V				
2+15	0.2396	1.63	Q V				
2+20	0.2509	1.64	Q V				
2+25	0.2622	1.65	Q V				
2+30	0.2736	1.65	Q V				
2+35	0.2849	1.65	Q V				
2+40	0.2962	1.65	Q V				
2+45	0.3083	1.76	Q V				
2+50	0.3210	1.84	Q V				
2+55	0.3338	1.86	Q V				
3+ 0	0.3466	1.86	Q V				
3+ 5	0.3594	1.86	Q V				
3+10	0.3730	1.97	Q V				
3+15	0.3872	2.06	Q V				
3+20	0.4014	2.07	Q V				
3+25	0.4165	2.19	Q V				
3+30	0.4329	2.38	Q V				
3+35	0.4507	2.59	Q V				
3+40	0.4693	2.70	Q V				
3+45	0.4888	2.83	Q V				
3+50	0.5089	2.92	Q V				
3+55	0.5298	3.04	Q V				
4+ 0	0.5514	3.13	Q V				
4+ 5	0.5738	3.26	Q V				
4+10	0.5976	3.46	Q V				
4+15	0.6229	3.67	Q V				
4+20	0.6496	3.88	Q V				

4+25	0.6778	4.10		Q		V		
4+30	0.7068	4.20		Q		V		
4+35	0.7366	4.33		Q		V		
4+40	0.7678	4.53		Q		V		
4+45	0.8005	4.74		Q		V		
4+50	0.8338	4.85		Q		V		
4+55	0.8681	4.98		Q		V		
5+ 0	0.9038	5.18		Q		V		
5+ 5	0.9439	5.83		Q	Q	V		
5+10	0.9909	6.83		Q	Q	V		
5+15	1.0437	7.66		Q	Q	V		
5+20	1.1012	8.35		Q	Q	V		
5+25	1.1647	9.22		Q	Q	V		
5+30	1.2384	10.70		Q	Q	V		
5+35	1.2898	7.47		Q	Q	V		
5+40	1.3129	3.35		Q	Q	V		
5+45	1.3244	1.66	Q	Q	Q	V		
5+50	1.3314	1.03	Q	Q	Q	V		
5+55	1.3363	0.70	Q	Q	Q	V		
6+ 0	1.3394	0.46	Q	Q	Q	V		
6+ 5	1.3407	0.19	Q	Q	Q	V		
6+10	1.3409	0.03	Q	Q	Q	V		
6+15	1.3410	0.01	Q	Q	Q	V		

Unit Hydrograph Analysis

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Study date 08/02/22 File: a21626dma1q100uh24100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100HR 24 HR UH

Drainage Area = 6.58(Ac.) = 0.010 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 6.58(Ac.) =
0.010 Sq. Mi.
Length along longest watercourse = 808.65(Ft.)
Length along longest watercourse measured to centroid = 622.75(Ft.)
Length along longest watercourse = 0.153 Mi.
Length along longest watercourse measured to centroid = 0.118 Mi.
Difference in elevation = 7.00(Ft.)
Slope along watercourse = 45.7058 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.033 Hr.
Lag time = 1.97 Min.
25% of lag time = 0.49 Min.
40% of lag time = 0.79 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]
6.58	1.90	12.50

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6.58	4.80	31.57

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 4.800(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 4.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
6.578	69.00	0.862
Total Area Entered = 6.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.862	0.043	1.000	0.043
Sum (F) =						0.043

Area averaged mean soil loss (F) (In/Hr) = 0.043
 Minimum soil loss rate ((In/Hr)) = 0.022
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.210

 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	253.789	51.385	3.407
2	0.167	507.577	39.821	2.640
3	0.250	761.366	6.897	0.457
4	0.333	1015.155	1.897	0.126
Sum = 100.000			Sum=	6.629

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.038	(0.077)	0.008	0.030
2	0.17	0.07	0.038	(0.077)	0.008	0.030
3	0.25	0.07	0.038	(0.076)	0.008	0.030
4	0.33	0.10	0.058	(0.076)	0.012	0.046
5	0.42	0.10	0.058	(0.076)	0.012	0.046
6	0.50	0.10	0.058	(0.076)	0.012	0.046
7	0.58	0.10	0.058	(0.075)	0.012	0.046
8	0.67	0.10	0.058	(0.075)	0.012	0.046
9	0.75	0.10	0.058	(0.075)	0.012	0.046
10	0.83	0.13	0.077	(0.074)	0.016	0.061
11	0.92	0.13	0.077	(0.074)	0.016	0.061
12	1.00	0.13	0.077	(0.074)	0.016	0.061
13	1.08	0.10	0.058	(0.074)	0.012	0.046
14	1.17	0.10	0.058	(0.073)	0.012	0.046
15	1.25	0.10	0.058	(0.073)	0.012	0.046
16	1.33	0.10	0.058	(0.073)	0.012	0.046
17	1.42	0.10	0.058	(0.072)	0.012	0.046
18	1.50	0.10	0.058	(0.072)	0.012	0.046
19	1.58	0.10	0.058	(0.072)	0.012	0.046
20	1.67	0.10	0.058	(0.071)	0.012	0.046
21	1.75	0.10	0.058	(0.071)	0.012	0.046
22	1.83	0.13	0.077	(0.071)	0.016	0.061
23	1.92	0.13	0.077	(0.071)	0.016	0.061
24	2.00	0.13	0.077	(0.070)	0.016	0.061
25	2.08	0.13	0.077	(0.070)	0.016	0.061
26	2.17	0.13	0.077	(0.070)	0.016	0.061
27	2.25	0.13	0.077	(0.069)	0.016	0.061
28	2.33	0.13	0.077	(0.069)	0.016	0.061
29	2.42	0.13	0.077	(0.069)	0.016	0.061
30	2.50	0.13	0.077	(0.069)	0.016	0.061
31	2.58	0.17	0.096	(0.068)	0.020	0.076
32	2.67	0.17	0.096	(0.068)	0.020	0.076
33	2.75	0.17	0.096	(0.068)	0.020	0.076
34	2.83	0.17	0.096	(0.068)	0.020	0.076
35	2.92	0.17	0.096	(0.067)	0.020	0.076
36	3.00	0.17	0.096	(0.067)	0.020	0.076
37	3.08	0.17	0.096	(0.067)	0.020	0.076
38	3.17	0.17	0.096	(0.066)	0.020	0.076
39	3.25	0.17	0.096	(0.066)	0.020	0.076
40	3.33	0.17	0.096	(0.066)	0.020	0.076
41	3.42	0.17	0.096	(0.066)	0.020	0.076
42	3.50	0.17	0.096	(0.065)	0.020	0.076
43	3.58	0.17	0.096	(0.065)	0.020	0.076
44	3.67	0.17	0.096	(0.065)	0.020	0.076
45	3.75	0.17	0.096	(0.064)	0.020	0.076

46	3.83	0.20	0.115	(0.064)	0.024	0.091
47	3.92	0.20	0.115	(0.064)	0.024	0.091
48	4.00	0.20	0.115	(0.064)	0.024	0.091
49	4.08	0.20	0.115	(0.063)	0.024	0.091
50	4.17	0.20	0.115	(0.063)	0.024	0.091
51	4.25	0.20	0.115	(0.063)	0.024	0.091
52	4.33	0.23	0.134	(0.063)	0.028	0.106
53	4.42	0.23	0.134	(0.062)	0.028	0.106
54	4.50	0.23	0.134	(0.062)	0.028	0.106
55	4.58	0.23	0.134	(0.062)	0.028	0.106
56	4.67	0.23	0.134	(0.062)	0.028	0.106
57	4.75	0.23	0.134	(0.061)	0.028	0.106
58	4.83	0.27	0.154	(0.061)	0.032	0.121
59	4.92	0.27	0.154	(0.061)	0.032	0.121
60	5.00	0.27	0.154	(0.060)	0.032	0.121
61	5.08	0.20	0.115	(0.060)	0.024	0.091
62	5.17	0.20	0.115	(0.060)	0.024	0.091
63	5.25	0.20	0.115	(0.060)	0.024	0.091
64	5.33	0.23	0.134	(0.059)	0.028	0.106
65	5.42	0.23	0.134	(0.059)	0.028	0.106
66	5.50	0.23	0.134	(0.059)	0.028	0.106
67	5.58	0.27	0.154	(0.059)	0.032	0.121
68	5.67	0.27	0.154	(0.058)	0.032	0.121
69	5.75	0.27	0.154	(0.058)	0.032	0.121
70	5.83	0.27	0.154	(0.058)	0.032	0.121
71	5.92	0.27	0.154	(0.058)	0.032	0.121
72	6.00	0.27	0.154	(0.057)	0.032	0.121
73	6.08	0.30	0.173	(0.057)	0.036	0.137
74	6.17	0.30	0.173	(0.057)	0.036	0.137
75	6.25	0.30	0.173	(0.057)	0.036	0.137
76	6.33	0.30	0.173	(0.056)	0.036	0.137
77	6.42	0.30	0.173	(0.056)	0.036	0.137
78	6.50	0.30	0.173	(0.056)	0.036	0.137
79	6.58	0.33	0.192	(0.056)	0.040	0.152
80	6.67	0.33	0.192	(0.055)	0.040	0.152
81	6.75	0.33	0.192	(0.055)	0.040	0.152
82	6.83	0.33	0.192	(0.055)	0.040	0.152
83	6.92	0.33	0.192	(0.055)	0.040	0.152
84	7.00	0.33	0.192	(0.054)	0.040	0.152
85	7.08	0.33	0.192	(0.054)	0.040	0.152
86	7.17	0.33	0.192	(0.054)	0.040	0.152
87	7.25	0.33	0.192	(0.054)	0.040	0.152
88	7.33	0.37	0.211	(0.053)	0.044	0.167
89	7.42	0.37	0.211	(0.053)	0.044	0.167
90	7.50	0.37	0.211	(0.053)	0.044	0.167
91	7.58	0.40	0.230	(0.053)	0.048	0.182
92	7.67	0.40	0.230	(0.052)	0.048	0.182
93	7.75	0.40	0.230	(0.052)	0.048	0.182
94	7.83	0.43	0.250	0.052	(0.052)	0.198
95	7.92	0.43	0.250	0.052	(0.052)	0.198

96	8.00	0.43	0.250	0.051	(0.052)	0.198
97	8.08	0.50	0.288	0.051	(0.060)	0.237
98	8.17	0.50	0.288	0.051	(0.060)	0.237
99	8.25	0.50	0.288	0.051	(0.060)	0.237
100	8.33	0.50	0.288	0.050	(0.060)	0.238
101	8.42	0.50	0.288	0.050	(0.060)	0.238
102	8.50	0.50	0.288	0.050	(0.060)	0.238
103	8.58	0.53	0.307	0.050	(0.065)	0.257
104	8.67	0.53	0.307	0.050	(0.065)	0.258
105	8.75	0.53	0.307	0.049	(0.065)	0.258
106	8.83	0.57	0.326	0.049	(0.069)	0.277
107	8.92	0.57	0.326	0.049	(0.069)	0.278
108	9.00	0.57	0.326	0.049	(0.069)	0.278
109	9.08	0.63	0.365	0.048	(0.077)	0.316
110	9.17	0.63	0.365	0.048	(0.077)	0.317
111	9.25	0.63	0.365	0.048	(0.077)	0.317
112	9.33	0.67	0.384	0.048	(0.081)	0.336
113	9.42	0.67	0.384	0.047	(0.081)	0.337
114	9.50	0.67	0.384	0.047	(0.081)	0.337
115	9.58	0.70	0.403	0.047	(0.085)	0.356
116	9.67	0.70	0.403	0.047	(0.085)	0.356
117	9.75	0.70	0.403	0.047	(0.085)	0.357
118	9.83	0.73	0.422	0.046	(0.089)	0.376
119	9.92	0.73	0.422	0.046	(0.089)	0.376
120	10.00	0.73	0.422	0.046	(0.089)	0.377
121	10.08	0.50	0.288	0.046	(0.060)	0.242
122	10.17	0.50	0.288	0.045	(0.060)	0.243
123	10.25	0.50	0.288	0.045	(0.060)	0.243
124	10.33	0.50	0.288	0.045	(0.060)	0.243
125	10.42	0.50	0.288	0.045	(0.060)	0.243
126	10.50	0.50	0.288	0.045	(0.060)	0.243
127	10.58	0.67	0.384	0.044	(0.081)	0.340
128	10.67	0.67	0.384	0.044	(0.081)	0.340
129	10.75	0.67	0.384	0.044	(0.081)	0.340
130	10.83	0.67	0.384	0.044	(0.081)	0.340
131	10.92	0.67	0.384	0.043	(0.081)	0.341
132	11.00	0.67	0.384	0.043	(0.081)	0.341
133	11.08	0.63	0.365	0.043	(0.077)	0.322
134	11.17	0.63	0.365	0.043	(0.077)	0.322
135	11.25	0.63	0.365	0.043	(0.077)	0.322
136	11.33	0.63	0.365	0.042	(0.077)	0.322
137	11.42	0.63	0.365	0.042	(0.077)	0.323
138	11.50	0.63	0.365	0.042	(0.077)	0.323
139	11.58	0.57	0.326	0.042	(0.069)	0.285
140	11.67	0.57	0.326	0.042	(0.069)	0.285
141	11.75	0.57	0.326	0.041	(0.069)	0.285
142	11.83	0.60	0.346	0.041	(0.073)	0.304
143	11.92	0.60	0.346	0.041	(0.073)	0.305
144	12.00	0.60	0.346	0.041	(0.073)	0.305
145	12.08	0.83	0.480	0.041	(0.101)	0.439

146	12.17	0.83	0.480	0.040	(0.101)	0.440
147	12.25	0.83	0.480	0.040	(0.101)	0.440
148	12.33	0.87	0.499	0.040	(0.105)	0.459
149	12.42	0.87	0.499	0.040	(0.105)	0.459
150	12.50	0.87	0.499	0.040	(0.105)	0.460
151	12.58	0.93	0.538	0.039	(0.113)	0.498
152	12.67	0.93	0.538	0.039	(0.113)	0.498
153	12.75	0.93	0.538	0.039	(0.113)	0.499
154	12.83	0.97	0.557	0.039	(0.117)	0.518
155	12.92	0.97	0.557	0.039	(0.117)	0.518
156	13.00	0.97	0.557	0.038	(0.117)	0.518
157	13.08	1.13	0.653	0.038	(0.137)	0.615
158	13.17	1.13	0.653	0.038	(0.137)	0.615
159	13.25	1.13	0.653	0.038	(0.137)	0.615
160	13.33	1.13	0.653	0.038	(0.137)	0.615
161	13.42	1.13	0.653	0.037	(0.137)	0.615
162	13.50	1.13	0.653	0.037	(0.137)	0.616
163	13.58	0.77	0.442	0.037	(0.093)	0.405
164	13.67	0.77	0.442	0.037	(0.093)	0.405
165	13.75	0.77	0.442	0.037	(0.093)	0.405
166	13.83	0.77	0.442	0.036	(0.093)	0.405
167	13.92	0.77	0.442	0.036	(0.093)	0.405
168	14.00	0.77	0.442	0.036	(0.093)	0.405
169	14.08	0.90	0.518	0.036	(0.109)	0.482
170	14.17	0.90	0.518	0.036	(0.109)	0.483
171	14.25	0.90	0.518	0.036	(0.109)	0.483
172	14.33	0.87	0.499	0.035	(0.105)	0.464
173	14.42	0.87	0.499	0.035	(0.105)	0.464
174	14.50	0.87	0.499	0.035	(0.105)	0.464
175	14.58	0.87	0.499	0.035	(0.105)	0.464
176	14.67	0.87	0.499	0.035	(0.105)	0.465
177	14.75	0.87	0.499	0.034	(0.105)	0.465
178	14.83	0.83	0.480	0.034	(0.101)	0.446
179	14.92	0.83	0.480	0.034	(0.101)	0.446
180	15.00	0.83	0.480	0.034	(0.101)	0.446
181	15.08	0.80	0.461	0.034	(0.097)	0.427
182	15.17	0.80	0.461	0.034	(0.097)	0.427
183	15.25	0.80	0.461	0.033	(0.097)	0.427
184	15.33	0.77	0.442	0.033	(0.093)	0.408
185	15.42	0.77	0.442	0.033	(0.093)	0.409
186	15.50	0.77	0.442	0.033	(0.093)	0.409
187	15.58	0.63	0.365	0.033	(0.077)	0.332
188	15.67	0.63	0.365	0.033	(0.077)	0.332
189	15.75	0.63	0.365	0.032	(0.077)	0.332
190	15.83	0.63	0.365	0.032	(0.077)	0.333
191	15.92	0.63	0.365	0.032	(0.077)	0.333
192	16.00	0.63	0.365	0.032	(0.077)	0.333
193	16.08	0.13	0.077	(0.032)	0.016	0.061
194	16.17	0.13	0.077	(0.032)	0.016	0.061
195	16.25	0.13	0.077	(0.031)	0.016	0.061

196	16.33	0.13	0.077	(0.031)	0.016	0.061
197	16.42	0.13	0.077	(0.031)	0.016	0.061
198	16.50	0.13	0.077	(0.031)	0.016	0.061
199	16.58	0.10	0.058	(0.031)	0.012	0.046
200	16.67	0.10	0.058	(0.031)	0.012	0.046
201	16.75	0.10	0.058	(0.030)	0.012	0.046
202	16.83	0.10	0.058	(0.030)	0.012	0.046
203	16.92	0.10	0.058	(0.030)	0.012	0.046
204	17.00	0.10	0.058	(0.030)	0.012	0.046
205	17.08	0.17	0.096	(0.030)	0.020	0.076
206	17.17	0.17	0.096	(0.030)	0.020	0.076
207	17.25	0.17	0.096	(0.030)	0.020	0.076
208	17.33	0.17	0.096	(0.029)	0.020	0.076
209	17.42	0.17	0.096	(0.029)	0.020	0.076
210	17.50	0.17	0.096	(0.029)	0.020	0.076
211	17.58	0.17	0.096	(0.029)	0.020	0.076
212	17.67	0.17	0.096	(0.029)	0.020	0.076
213	17.75	0.17	0.096	(0.029)	0.020	0.076
214	17.83	0.13	0.077	(0.029)	0.016	0.061
215	17.92	0.13	0.077	(0.028)	0.016	0.061
216	18.00	0.13	0.077	(0.028)	0.016	0.061
217	18.08	0.13	0.077	(0.028)	0.016	0.061
218	18.17	0.13	0.077	(0.028)	0.016	0.061
219	18.25	0.13	0.077	(0.028)	0.016	0.061
220	18.33	0.13	0.077	(0.028)	0.016	0.061
221	18.42	0.13	0.077	(0.028)	0.016	0.061
222	18.50	0.13	0.077	(0.027)	0.016	0.061
223	18.58	0.10	0.058	(0.027)	0.012	0.046
224	18.67	0.10	0.058	(0.027)	0.012	0.046
225	18.75	0.10	0.058	(0.027)	0.012	0.046
226	18.83	0.07	0.038	(0.027)	0.008	0.030
227	18.92	0.07	0.038	(0.027)	0.008	0.030
228	19.00	0.07	0.038	(0.027)	0.008	0.030
229	19.08	0.10	0.058	(0.027)	0.012	0.046
230	19.17	0.10	0.058	(0.026)	0.012	0.046
231	19.25	0.10	0.058	(0.026)	0.012	0.046
232	19.33	0.13	0.077	(0.026)	0.016	0.061
233	19.42	0.13	0.077	(0.026)	0.016	0.061
234	19.50	0.13	0.077	(0.026)	0.016	0.061
235	19.58	0.10	0.058	(0.026)	0.012	0.046
236	19.67	0.10	0.058	(0.026)	0.012	0.046
237	19.75	0.10	0.058	(0.026)	0.012	0.046
238	19.83	0.07	0.038	(0.025)	0.008	0.030
239	19.92	0.07	0.038	(0.025)	0.008	0.030
240	20.00	0.07	0.038	(0.025)	0.008	0.030
241	20.08	0.10	0.058	(0.025)	0.012	0.046
242	20.17	0.10	0.058	(0.025)	0.012	0.046
243	20.25	0.10	0.058	(0.025)	0.012	0.046
244	20.33	0.10	0.058	(0.025)	0.012	0.046
245	20.42	0.10	0.058	(0.025)	0.012	0.046

246	20.50	0.10	0.058	(0.025)	0.012	0.046
247	20.58	0.10	0.058	(0.024)	0.012	0.046
248	20.67	0.10	0.058	(0.024)	0.012	0.046
249	20.75	0.10	0.058	(0.024)	0.012	0.046
250	20.83	0.07	0.038	(0.024)	0.008	0.030
251	20.92	0.07	0.038	(0.024)	0.008	0.030
252	21.00	0.07	0.038	(0.024)	0.008	0.030
253	21.08	0.10	0.058	(0.024)	0.012	0.046
254	21.17	0.10	0.058	(0.024)	0.012	0.046
255	21.25	0.10	0.058	(0.024)	0.012	0.046
256	21.33	0.07	0.038	(0.024)	0.008	0.030
257	21.42	0.07	0.038	(0.024)	0.008	0.030
258	21.50	0.07	0.038	(0.023)	0.008	0.030
259	21.58	0.10	0.058	(0.023)	0.012	0.046
260	21.67	0.10	0.058	(0.023)	0.012	0.046
261	21.75	0.10	0.058	(0.023)	0.012	0.046
262	21.83	0.07	0.038	(0.023)	0.008	0.030
263	21.92	0.07	0.038	(0.023)	0.008	0.030
264	22.00	0.07	0.038	(0.023)	0.008	0.030
265	22.08	0.10	0.058	(0.023)	0.012	0.046
266	22.17	0.10	0.058	(0.023)	0.012	0.046
267	22.25	0.10	0.058	(0.023)	0.012	0.046
268	22.33	0.07	0.038	(0.023)	0.008	0.030
269	22.42	0.07	0.038	(0.023)	0.008	0.030
270	22.50	0.07	0.038	(0.023)	0.008	0.030
271	22.58	0.07	0.038	(0.022)	0.008	0.030
272	22.67	0.07	0.038	(0.022)	0.008	0.030
273	22.75	0.07	0.038	(0.022)	0.008	0.030
274	22.83	0.07	0.038	(0.022)	0.008	0.030
275	22.92	0.07	0.038	(0.022)	0.008	0.030
276	23.00	0.07	0.038	(0.022)	0.008	0.030
277	23.08	0.07	0.038	(0.022)	0.008	0.030
278	23.17	0.07	0.038	(0.022)	0.008	0.030
279	23.25	0.07	0.038	(0.022)	0.008	0.030
280	23.33	0.07	0.038	(0.022)	0.008	0.030
281	23.42	0.07	0.038	(0.022)	0.008	0.030
282	23.50	0.07	0.038	(0.022)	0.008	0.030
283	23.58	0.07	0.038	(0.022)	0.008	0.030
284	23.67	0.07	0.038	(0.022)	0.008	0.030
285	23.75	0.07	0.038	(0.022)	0.008	0.030
286	23.83	0.07	0.038	(0.022)	0.008	0.030
287	23.92	0.07	0.038	(0.022)	0.008	0.030
288	24.00	0.07	0.038	(0.022)	0.008	0.030

(Loss Rate Not Used)

Sum = 100.0

Sum = 50.0

Flood volume = Effective rainfall 4.17(In)
times area 6.6(Ac.)/[(In)/(Ft.)] = 2.3(Ac.Ft)

Total soil loss = 0.63(In)

Total soil loss = 0.346(Ac.Ft)

Total rainfall = 4.80(In)

Flood volume = 99547.0 Cubic Feet
 Total soil loss = 15066.6 Cubic Feet

 Peak flow rate of this hydrograph = 4.082(CFS)

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

 Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0007	0.10	Q				
0+10	0.0020	0.18	Q				
0+15	0.0033	0.20	Q				
0+20	0.0051	0.25	VQ				
0+25	0.0071	0.29	VQ				
0+30	0.0092	0.30	VQ				
0+35	0.0112	0.30	VQ				
0+40	0.0133	0.30	VQ				
0+45	0.0154	0.30	VQ				
0+50	0.0178	0.35	VQ				
0+55	0.0205	0.39	VQ				
1+ 0	0.0233	0.40	VQ				
1+ 5	0.0257	0.35	VQ				
1+10	0.0279	0.31	VQ				
1+15	0.0299	0.30	VQ				
1+20	0.0320	0.30	VQ				
1+25	0.0341	0.30	VQ				
1+30	0.0362	0.30	VQ				
1+35	0.0383	0.30	VQ				
1+40	0.0403	0.30	VQ				
1+45	0.0424	0.30	VQ				
1+50	0.0449	0.35	VQ				
1+55	0.0476	0.39	VQ				
2+ 0	0.0503	0.40	VQ				
2+ 5	0.0531	0.40	VQ				
2+10	0.0559	0.40	VQ				
2+15	0.0586	0.40	Q				
2+20	0.0614	0.40	Q				
2+25	0.0642	0.40	Q				
2+30	0.0670	0.40	Q				
2+35	0.0701	0.45	Q				
2+40	0.0735	0.49	Q				
2+45	0.0769	0.50	VQ				
2+50	0.0804	0.50	VQ				
2+55	0.0839	0.50	VQ				
3+ 0	0.0873	0.50	VQ				

3+ 5	0.0908	0.50	VQ				
3+10	0.0943	0.50	VQ				
3+15	0.0977	0.50	VQ				
3+20	0.1012	0.50	VQ				
3+25	0.1046	0.50	VQ				
3+30	0.1081	0.50	VQ				
3+35	0.1116	0.50	VQ				
3+40	0.1150	0.50	Q				
3+45	0.1185	0.50	Q				
3+50	0.1223	0.55	Q				
3+55	0.1264	0.59	Q				
4+ 0	0.1306	0.60	Q				
4+ 5	0.1347	0.60	Q				
4+10	0.1389	0.60	Q				
4+15	0.1430	0.60	Q				
4+20	0.1476	0.66	Q				
4+25	0.1523	0.70	Q				
4+30	0.1572	0.70	Q				
4+35	0.1620	0.70	Q				
4+40	0.1669	0.70	Q				
4+45	0.1717	0.70	QV				
4+50	0.1769	0.76	Q				
4+55	0.1824	0.80	Q				
5+ 0	0.1879	0.80	Q				
5+ 5	0.1928	0.70	QV				
5+10	0.1971	0.62	QV				
5+15	0.2012	0.61	QV				
5+20	0.2058	0.66	QV				
5+25	0.2105	0.70	QV				
5+30	0.2154	0.70	QV				
5+35	0.2206	0.76	Q				
5+40	0.2261	0.80	Q				
5+45	0.2316	0.80	QV				
5+50	0.2371	0.80	QV				
5+55	0.2427	0.80	QV				
6+ 0	0.2482	0.80	QV				
6+ 5	0.2541	0.86	QV				
6+10	0.2603	0.90	QV				
6+15	0.2665	0.90	QV				
6+20	0.2728	0.91	QV				
6+25	0.2790	0.91	QV				
6+30	0.2852	0.91	QV				
6+35	0.2918	0.96	Q V				
6+40	0.2987	1.00	Q V				
6+45	0.3056	1.00	QV				
6+50	0.3125	1.01	QV				
6+55	0.3195	1.01	QV				
7+ 0	0.3264	1.01	QV				
7+ 5	0.3333	1.01	QV				
7+10	0.3402	1.01	QV				

7+15	0.3472	1.01	Q V			
7+20	0.3545	1.06	Q V			
7+25	0.3620	1.10	Q V			
7+30	0.3696	1.10	Q V			
7+35	0.3776	1.16	Q V			
7+40	0.3859	1.20	Q V			
7+45	0.3942	1.21	Q V			
7+50	0.4028	1.26	Q V			
7+55	0.4118	1.30	Q V			
8+ 0	0.4209	1.31	Q V			
8+ 5	0.4308	1.45	Q V			
8+10	0.4415	1.55	QV			
8+15	0.4523	1.57	QV			
8+20	0.4631	1.57	Q V			
8+25	0.4740	1.58	Q V			
8+30	0.4848	1.58	Q V			
8+35	0.4962	1.64	Q V			
8+40	0.5079	1.70	Q V			
8+45	0.5196	1.71	Q V			
8+50	0.5318	1.78	Q V			
8+55	0.5444	1.83	Q V			
9+ 0	0.5571	1.84	Q V			
9+ 5	0.5707	1.97	Q V			
9+10	0.5850	2.08	Q V			
9+15	0.5994	2.10	Q V			
9+20	0.6144	2.17	Q V			
9+25	0.6297	2.22	Q V			
9+30	0.6450	2.23	Q V			
9+35	0.6609	2.30	Q V			
9+40	0.6771	2.35	Q V			
9+45	0.6933	2.36	Q V			
9+50	0.7101	2.43	Q V			
9+55	0.7272	2.48	Q V			
10+ 0	0.7444	2.49	Q V			
10+ 5	0.7584	2.04	Q V			
10+10	0.7700	1.69	Q V			
10+15	0.7812	1.63	Q V			
10+20	0.7923	1.61	Q V			
10+25	0.8034	1.61	Q V			
10+30	0.8145	1.61	Q V			
10+35	0.8279	1.94	Q V			
10+40	0.8430	2.20	Q V			
10+45	0.8585	2.24	Q V			
10+50	0.8740	2.26	Q V			
10+55	0.8896	2.26	Q V			
11+ 0	0.9051	2.26	Q V			
11+ 5	0.9202	2.20	Q V			
11+10	0.9350	2.15	Q V			
11+15	0.9498	2.14	Q V			
11+20	0.9645	2.14	Q V			

11+25	0.9792	2.14	Q	V		
11+30	0.9939	2.14	Q	V		
11+35	1.0078	2.01	Q	V		
11+40	1.0209	1.91	Q	V		
11+45	1.0340	1.89	Q	V		
11+50	1.0475	1.96	Q	V		
11+55	1.0613	2.01	Q	V		
12+ 0	1.0752	2.02	Q	V		
12+ 5	1.0923	2.48	Q	V		
12+10	1.1118	2.84	Q	V		
12+15	1.1318	2.90	Q	V		
12+20	1.1523	2.98	Q	V		
12+25	1.1732	3.04	Q	V		
12+30	1.1942	3.05	Q	V		
12+35	1.2161	3.18	Q	V		
12+40	1.2387	3.28	Q	V		
12+45	1.2615	3.30	Q	V		
12+50	1.2847	3.37	Q	V		
12+55	1.3083	3.43	Q	V		
13+ 0	1.3319	3.44	Q	V		
13+ 5	1.3579	3.77	Q	V		
13+10	1.3856	4.02	Q	V		
13+15	1.4136	4.07	Q	V		
13+20	1.4417	4.08	Q	V		
13+25	1.4698	4.08	Q	V		
13+30	1.4979	4.08	Q	V		
13+35	1.5211	3.36	Q	V		
13+40	1.5404	2.81	Q	V		
13+45	1.5591	2.71	Q	V		
13+50	1.5776	2.69	Q	V		
13+55	1.5961	2.69	Q	V		
14+ 0	1.6146	2.69	Q	V		
14+ 5	1.6349	2.95	Q	V		
14+10	1.6567	3.16	Q	V		
14+15	1.6787	3.19	Q	V		
14+20	1.7003	3.14	Q	V		
14+25	1.7215	3.09	Q	V		
14+30	1.7427	3.08	Q	V		
14+35	1.7640	3.08	Q	V		
14+40	1.7852	3.08	Q	V		
14+45	1.8064	3.08	Q	V		
14+50	1.8272	3.02	Q	V		
14+55	1.8476	2.97	Q	V		
15+ 0	1.8680	2.96	Q	V		
15+ 5	1.8879	2.89	Q	V		
15+10	1.9075	2.84	Q	V		
15+15	1.9271	2.84	Q	V		
15+20	1.9461	2.77	Q	V		
15+25	1.9649	2.72	Q	V		
15+30	1.9835	2.71	Q	V		

15+35	2.0004	2.45		Q		V
15+40	2.0159	2.25		Q		V
15+45	2.0311	2.21		Q		V
15+50	2.0463	2.21		Q		V
15+55	2.0615	2.21		Q		V
16+ 0	2.0767	2.21		Q		V
16+ 5	2.0855	1.28	Q			V
16+10	2.0894	0.56	Q			V
16+15	2.0924	0.44	Q			V
16+20	2.0952	0.40	Q			V
16+25	2.0980	0.40	Q			V
16+30	2.1007	0.40	Q			V
16+35	2.1031	0.35	Q			V
16+40	2.1053	0.31	Q			V
16+45	2.1074	0.30	Q			V
16+50	2.1094	0.30	Q			V
16+55	2.1115	0.30	Q			V
17+ 0	2.1136	0.30	Q			V
17+ 5	2.1164	0.41	Q			V
17+10	2.1197	0.49	Q			V
17+15	2.1232	0.50	Q			V
17+20	2.1266	0.50	Q			V
17+25	2.1301	0.50	Q			V
17+30	2.1336	0.50	Q			V
17+35	2.1370	0.50	Q			V
17+40	2.1405	0.50	Q			V
17+45	2.1440	0.50	Q			V
17+50	2.1471	0.45	Q			V
17+55	2.1499	0.41	Q			V
18+ 0	2.1527	0.40	Q			V
18+ 5	2.1555	0.40	Q			V
18+10	2.1582	0.40	Q			V
18+15	2.1610	0.40	Q			V
18+20	2.1638	0.40	Q			V
18+25	2.1665	0.40	Q			V
18+30	2.1693	0.40	Q			V
18+35	2.1717	0.35	Q			V
18+40	2.1739	0.31	Q			V
18+45	2.1760	0.30	Q			V
18+50	2.1777	0.25	Q			V
18+55	2.1791	0.21	Q			V
19+ 0	2.1805	0.20	Q			V
19+ 5	2.1823	0.25	Q			V
19+10	2.1843	0.29	Q			V
19+15	2.1864	0.30	Q			V
19+20	2.1888	0.35	Q			V
19+25	2.1915	0.39	Q			V
19+30	2.1943	0.40	Q			V
19+35	2.1967	0.35	Q			V
19+40	2.1988	0.31	Q			V

19+45	2.2009	0.30	Q				V
19+50	2.2026	0.25	Q				V
19+55	2.2041	0.21	Q				V
20+ 0	2.2055	0.20	Q				V
20+ 5	2.2072	0.25	Q				V
20+10	2.2092	0.29	Q				V
20+15	2.2113	0.30	Q				V
20+20	2.2134	0.30	Q				V
20+25	2.2155	0.30	Q				V
20+30	2.2175	0.30	Q				V
20+35	2.2196	0.30	Q				V
20+40	2.2217	0.30	Q				V
20+45	2.2238	0.30	Q				V
20+50	2.2255	0.25	Q				V
20+55	2.2269	0.21	Q				V
21+ 0	2.2283	0.20	Q				V
21+ 5	2.2301	0.25	Q				V
21+10	2.2321	0.29	Q				V
21+15	2.2342	0.30	Q				V
21+20	2.2359	0.25	Q				V
21+25	2.2373	0.21	Q				V
21+30	2.2387	0.20	Q				V
21+35	2.2405	0.25	Q				V
21+40	2.2425	0.29	Q				V
21+45	2.2446	0.30	Q				V
21+50	2.2463	0.25	Q				V
21+55	2.2477	0.21	Q				V
22+ 0	2.2491	0.20	Q				V
22+ 5	2.2509	0.25	Q				V
22+10	2.2529	0.29	Q				V
22+15	2.2550	0.30	Q				V
22+20	2.2567	0.25	Q				V
22+25	2.2581	0.21	Q				V
22+30	2.2595	0.20	Q				V
22+35	2.2609	0.20	Q				V
22+40	2.2623	0.20	Q				V
22+45	2.2637	0.20	Q				V
22+50	2.2651	0.20	Q				V
22+55	2.2664	0.20	Q				V
23+ 0	2.2678	0.20	Q				V
23+ 5	2.2692	0.20	Q				V
23+10	2.2706	0.20	Q				V
23+15	2.2720	0.20	Q				V
23+20	2.2734	0.20	Q				V
23+25	2.2748	0.20	Q				V
23+30	2.2761	0.20	Q				V
23+35	2.2775	0.20	Q				V
23+40	2.2789	0.20	Q				V
23+45	2.2803	0.20	Q				V
23+50	2.2817	0.20	Q				V

23+55	2.2831	0.20	Q				V
24+ 0	2.2845	0.20	Q				V
24+ 5	2.2851	0.10	Q				V
24+10	2.2853	0.02	Q				V
24+15	2.2853	0.00	Q				V

DMA 2 Proposed 2-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-1HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	0.48	0.76

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.25	1.98

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.480(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 0.480(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	527.815	72.250	1.150
2	0.167	1055.631	27.750	0.442
		Sum = 100.000	Sum=	1.592

1+ 5

0.0479

0.09 Q

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Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH32.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-3HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	0.80	1.26

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.95	3.08

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

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

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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

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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	2.5	5.0	7.5	10.0
0+ 5	0.0007	0.10	Q				
0+10	0.0017	0.14	Q				
0+15	0.0025	0.13	QV				
0+20	0.0036	0.15	QV				
0+25	0.0047	0.16	Q V				
0+30	0.0060	0.19	Q V				
0+35	0.0072	0.17	Q V				
0+40	0.0084	0.19	Q V				
0+45	0.0098	0.20	Q V				
0+50	0.0110	0.17	Q V				
0+55	0.0121	0.17	Q V				
1+ 0	0.0134	0.19	Q V				
1+ 5	0.0150	0.23	Q V				
1+10	0.0166	0.24	Q V				
1+15	0.0183	0.24	Q V				
1+20	0.0198	0.22	Q V				
1+25	0.0216	0.26	Q V				
1+30	0.0236	0.29	Q V				
1+35	0.0255	0.27	Q V				
1+40	0.0274	0.28	Q V				
1+45	0.0298	0.34	Q V				
1+50	0.0321	0.34	Q V				
1+55	0.0343	0.32	Q V				
2+ 0	0.0366	0.32	Q V				
2+ 5	0.0389	0.33	Q V				
2+10	0.0418	0.42	Q V				
2+15	0.0453	0.52	Q V				
2+20	0.0483	0.42	Q V				
2+25	0.0527	0.65	Q V				
2+30	0.0583	0.81	Q V				
2+35	0.0647	0.93	Q V				
2+40	0.0697	0.73	Q V				
2+45	0.0720	0.33	Q V				
2+50	0.0734	0.20	Q V				
2+55	0.0747	0.20	Q V				
3+ 0	0.0754	0.10	Q V				
3+ 5	0.0756	0.02	Q V				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH62.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR 6HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.11	1.75

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	2.70	4.27

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.110(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.110(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

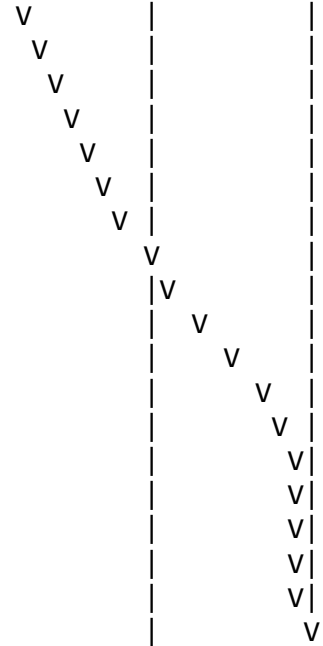
Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.067	(0.181)	0.019	0.047
2	0.17	0.60	0.080	(0.181)	0.023	0.057
3	0.25	0.60	0.080	(0.181)	0.023	0.057
4	0.33	0.60	0.080	(0.181)	0.023	0.057
5	0.42	0.60	0.080	(0.181)	0.023	0.057
6	0.50	0.70	0.093	(0.181)	0.027	0.066
7	0.58	0.70	0.093	(0.181)	0.027	0.066
8	0.67	0.70	0.093	(0.181)	0.027	0.066
9	0.75	0.70	0.093	(0.181)	0.027	0.066
10	0.83	0.70	0.093	(0.181)	0.027	0.066
11	0.92	0.70	0.093	(0.181)	0.027	0.066
12	1.00	0.80	0.107	(0.181)	0.031	0.076
13	1.08	0.80	0.107	(0.181)	0.031	0.076
14	1.17	0.80	0.107	(0.181)	0.031	0.076
15	1.25	0.80	0.107	(0.181)	0.031	0.076
16	1.33	0.80	0.107	(0.181)	0.031	0.076
17	1.42	0.80	0.107	(0.181)	0.031	0.076
18	1.50	0.80	0.107	(0.181)	0.031	0.076
19	1.58	0.80	0.107	(0.181)	0.031	0.076
20	1.67	0.80	0.107	(0.181)	0.031	0.076
21	1.75	0.80	0.107	(0.181)	0.031	0.076
22	1.83	0.80	0.107	(0.181)	0.031	0.076
23	1.92	0.80	0.107	(0.181)	0.031	0.076
24	2.00	0.90	0.120	(0.181)	0.035	0.085
25	2.08	0.80	0.107	(0.181)	0.031	0.076
26	2.17	0.90	0.120	(0.181)	0.035	0.085
27	2.25	0.90	0.120	(0.181)	0.035	0.085
28	2.33	0.90	0.120	(0.181)	0.035	0.085
29	2.42	0.90	0.120	(0.181)	0.035	0.085
30	2.50	0.90	0.120	(0.181)	0.035	0.085
31	2.58	0.90	0.120	(0.181)	0.035	0.085
32	2.67	0.90	0.120	(0.181)	0.035	0.085
33	2.75	1.00	0.133	(0.181)	0.039	0.094
34	2.83	1.00	0.133	(0.181)	0.039	0.094
35	2.92	1.00	0.133	(0.181)	0.039	0.094
36	3.00	1.00	0.133	(0.181)	0.039	0.094
37	3.08	1.00	0.133	(0.181)	0.039	0.094
38	3.17	1.10	0.147	(0.181)	0.043	0.104
39	3.25	1.10	0.147	(0.181)	0.043	0.104
40	3.33	1.10	0.147	(0.181)	0.043	0.104
41	3.42	1.20	0.160	(0.181)	0.047	0.113
42	3.50	1.30	0.173	(0.181)	0.050	0.123
43	3.58	1.40	0.186	(0.181)	0.054	0.132
44	3.67	1.40	0.186	(0.181)	0.054	0.132
45	3.75	1.50	0.200	(0.181)	0.058	0.142
46	3.83	1.50	0.200	(0.181)	0.058	0.142
47	3.92	1.60	0.213	(0.181)	0.062	0.151

0+25	0.0028	0.09	QV				
0+30	0.0035	0.10	QV				
0+35	0.0043	0.11	QV				
0+40	0.0050	0.11	QV				
0+45	0.0057	0.11	Q V				
0+50	0.0064	0.11	Q V				
0+55	0.0072	0.11	Q V				
1+ 0	0.0080	0.12	Q V				
1+ 5	0.0088	0.12	Q V				
1+10	0.0096	0.12	Q V				
1+15	0.0104	0.12	Q V				
1+20	0.0113	0.12	Q V				
1+25	0.0121	0.12	Q V				
1+30	0.0129	0.12	Q V				
1+35	0.0138	0.12	Q V				
1+40	0.0146	0.12	Q V				
1+45	0.0154	0.12	Q V				
1+50	0.0162	0.12	Q V				
1+55	0.0171	0.12	Q V				
2+ 0	0.0180	0.13	Q V				
2+ 5	0.0188	0.12	Q V				
2+10	0.0197	0.13	Q V				
2+15	0.0207	0.14	Q V				
2+20	0.0216	0.14	Q V				
2+25	0.0225	0.14	Q V				
2+30	0.0235	0.14	Q V				
2+35	0.0244	0.14	Q V				
2+40	0.0253	0.14	Q V				
2+45	0.0263	0.15	Q V				
2+50	0.0274	0.15	Q V				
2+55	0.0284	0.15	Q V				
3+ 0	0.0295	0.15	Q V				
3+ 5	0.0305	0.15	Q V				
3+10	0.0316	0.16	Q V				
3+15	0.0327	0.17	Q V				
3+20	0.0339	0.17	Q V				
3+25	0.0351	0.18	Q V				
3+30	0.0364	0.19	Q V				
3+35	0.0378	0.21	Q V				
3+40	0.0393	0.21	Q V				
3+45	0.0408	0.22	Q V				
3+50	0.0424	0.23	Q V				
3+55	0.0440	0.24	Q V				
4+ 0	0.0457	0.24	Q V				
4+ 5	0.0474	0.25	Q V				
4+10	0.0492	0.27	Q V				
4+15	0.0512	0.28	Q V				
4+20	0.0532	0.30	Q V				
4+25	0.0554	0.31	Q V				
4+30	0.0575	0.32	Q V				

4+35	0.0598	0.33	Q						
4+40	0.0621	0.34	Q						
4+45	0.0646	0.36	Q						
4+50	0.0671	0.36	Q						
4+55	0.0696	0.37	Q						
5+ 0	0.0723	0.39	Q						
5+ 5	0.0754	0.45	Q						
5+10	0.0790	0.52	Q						
5+15	0.0829	0.57	Q						
5+20	0.0872	0.62	Q						
5+25	0.0919	0.69	Q						
5+30	0.0978	0.85	Q						
5+35	0.1009	0.46	Q						
5+40	0.1021	0.18	Q						
5+45	0.1028	0.10	Q						
5+50	0.1034	0.08	Q						
5+55	0.1037	0.05	Q						
6+ 0	0.1040	0.03	Q						
6+ 5	0.1040	0.01	Q						



Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH242.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-24HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	1.90	3.00

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	4.80	7.58

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 1.900(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.900(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.015	(0.321)	0.004	0.011
2	0.17	0.07	0.015	(0.319)	0.004	0.011
3	0.25	0.07	0.015	(0.318)	0.004	0.011
4	0.33	0.10	0.023	(0.317)	0.007	0.016
5	0.42	0.10	0.023	(0.316)	0.007	0.016
6	0.50	0.10	0.023	(0.314)	0.007	0.016
7	0.58	0.10	0.023	(0.313)	0.007	0.016
8	0.67	0.10	0.023	(0.312)	0.007	0.016
9	0.75	0.10	0.023	(0.311)	0.007	0.016
10	0.83	0.13	0.030	(0.310)	0.009	0.022
11	0.92	0.13	0.030	(0.308)	0.009	0.022
12	1.00	0.13	0.030	(0.307)	0.009	0.022
13	1.08	0.10	0.023	(0.306)	0.007	0.016
14	1.17	0.10	0.023	(0.305)	0.007	0.016
15	1.25	0.10	0.023	(0.303)	0.007	0.016
16	1.33	0.10	0.023	(0.302)	0.007	0.016
17	1.42	0.10	0.023	(0.301)	0.007	0.016
18	1.50	0.10	0.023	(0.300)	0.007	0.016
19	1.58	0.10	0.023	(0.299)	0.007	0.016
20	1.67	0.10	0.023	(0.297)	0.007	0.016
21	1.75	0.10	0.023	(0.296)	0.007	0.016
22	1.83	0.13	0.030	(0.295)	0.009	0.022
23	1.92	0.13	0.030	(0.294)	0.009	0.022
24	2.00	0.13	0.030	(0.293)	0.009	0.022
25	2.08	0.13	0.030	(0.292)	0.009	0.022
26	2.17	0.13	0.030	(0.290)	0.009	0.022
27	2.25	0.13	0.030	(0.289)	0.009	0.022
28	2.33	0.13	0.030	(0.288)	0.009	0.022
29	2.42	0.13	0.030	(0.287)	0.009	0.022
30	2.50	0.13	0.030	(0.286)	0.009	0.022
31	2.58	0.17	0.038	(0.284)	0.011	0.027
32	2.67	0.17	0.038	(0.283)	0.011	0.027
33	2.75	0.17	0.038	(0.282)	0.011	0.027
34	2.83	0.17	0.038	(0.281)	0.011	0.027
35	2.92	0.17	0.038	(0.280)	0.011	0.027
36	3.00	0.17	0.038	(0.279)	0.011	0.027
37	3.08	0.17	0.038	(0.277)	0.011	0.027
38	3.17	0.17	0.038	(0.276)	0.011	0.027
39	3.25	0.17	0.038	(0.275)	0.011	0.027
40	3.33	0.17	0.038	(0.274)	0.011	0.027
41	3.42	0.17	0.038	(0.273)	0.011	0.027
42	3.50	0.17	0.038	(0.272)	0.011	0.027
43	3.58	0.17	0.038	(0.271)	0.011	0.027
44	3.67	0.17	0.038	(0.269)	0.011	0.027
45	3.75	0.17	0.038	(0.268)	0.011	0.027
46	3.83	0.20	0.046	(0.267)	0.013	0.032
47	3.92	0.20	0.046	(0.266)	0.013	0.032

48	4.00	0.20	0.046	(0.265)	0.013	0.032
49	4.08	0.20	0.046	(0.264)	0.013	0.032
50	4.17	0.20	0.046	(0.263)	0.013	0.032
51	4.25	0.20	0.046	(0.262)	0.013	0.032
52	4.33	0.23	0.053	(0.260)	0.015	0.038
53	4.42	0.23	0.053	(0.259)	0.015	0.038
54	4.50	0.23	0.053	(0.258)	0.015	0.038
55	4.58	0.23	0.053	(0.257)	0.015	0.038
56	4.67	0.23	0.053	(0.256)	0.015	0.038
57	4.75	0.23	0.053	(0.255)	0.015	0.038
58	4.83	0.27	0.061	(0.254)	0.018	0.043
59	4.92	0.27	0.061	(0.253)	0.018	0.043
60	5.00	0.27	0.061	(0.252)	0.018	0.043
61	5.08	0.20	0.046	(0.251)	0.013	0.032
62	5.17	0.20	0.046	(0.249)	0.013	0.032
63	5.25	0.20	0.046	(0.248)	0.013	0.032
64	5.33	0.23	0.053	(0.247)	0.015	0.038
65	5.42	0.23	0.053	(0.246)	0.015	0.038
66	5.50	0.23	0.053	(0.245)	0.015	0.038
67	5.58	0.27	0.061	(0.244)	0.018	0.043
68	5.67	0.27	0.061	(0.243)	0.018	0.043
69	5.75	0.27	0.061	(0.242)	0.018	0.043
70	5.83	0.27	0.061	(0.241)	0.018	0.043
71	5.92	0.27	0.061	(0.240)	0.018	0.043
72	6.00	0.27	0.061	(0.239)	0.018	0.043
73	6.08	0.30	0.068	(0.238)	0.020	0.048
74	6.17	0.30	0.068	(0.237)	0.020	0.048
75	6.25	0.30	0.068	(0.236)	0.020	0.048
76	6.33	0.30	0.068	(0.235)	0.020	0.048
77	6.42	0.30	0.068	(0.233)	0.020	0.048
78	6.50	0.30	0.068	(0.232)	0.020	0.048
79	6.58	0.33	0.076	(0.231)	0.022	0.054
80	6.67	0.33	0.076	(0.230)	0.022	0.054
81	6.75	0.33	0.076	(0.229)	0.022	0.054
82	6.83	0.33	0.076	(0.228)	0.022	0.054
83	6.92	0.33	0.076	(0.227)	0.022	0.054
84	7.00	0.33	0.076	(0.226)	0.022	0.054
85	7.08	0.33	0.076	(0.225)	0.022	0.054
86	7.17	0.33	0.076	(0.224)	0.022	0.054
87	7.25	0.33	0.076	(0.223)	0.022	0.054
88	7.33	0.37	0.084	(0.222)	0.024	0.059
89	7.42	0.37	0.084	(0.221)	0.024	0.059
90	7.50	0.37	0.084	(0.220)	0.024	0.059
91	7.58	0.40	0.091	(0.219)	0.027	0.065
92	7.67	0.40	0.091	(0.218)	0.027	0.065
93	7.75	0.40	0.091	(0.217)	0.027	0.065
94	7.83	0.43	0.099	(0.216)	0.029	0.070
95	7.92	0.43	0.099	(0.215)	0.029	0.070
96	8.00	0.43	0.099	(0.214)	0.029	0.070
97	8.08	0.50	0.114	(0.213)	0.033	0.081

98	8.17	0.50	0.114	(0.212)	0.033	0.081
99	8.25	0.50	0.114	(0.211)	0.033	0.081
100	8.33	0.50	0.114	(0.210)	0.033	0.081
101	8.42	0.50	0.114	(0.209)	0.033	0.081
102	8.50	0.50	0.114	(0.208)	0.033	0.081
103	8.58	0.53	0.122	(0.207)	0.035	0.086
104	8.67	0.53	0.122	(0.206)	0.035	0.086
105	8.75	0.53	0.122	(0.205)	0.035	0.086
106	8.83	0.57	0.129	(0.204)	0.038	0.092
107	8.92	0.57	0.129	(0.203)	0.038	0.092
108	9.00	0.57	0.129	(0.202)	0.038	0.092
109	9.08	0.63	0.144	(0.201)	0.042	0.102
110	9.17	0.63	0.144	(0.200)	0.042	0.102
111	9.25	0.63	0.144	(0.199)	0.042	0.102
112	9.33	0.67	0.152	(0.198)	0.044	0.108
113	9.42	0.67	0.152	(0.198)	0.044	0.108
114	9.50	0.67	0.152	(0.197)	0.044	0.108
115	9.58	0.70	0.160	(0.196)	0.046	0.113
116	9.67	0.70	0.160	(0.195)	0.046	0.113
117	9.75	0.70	0.160	(0.194)	0.046	0.113
118	9.83	0.73	0.167	(0.193)	0.049	0.119
119	9.92	0.73	0.167	(0.192)	0.049	0.119
120	10.00	0.73	0.167	(0.191)	0.049	0.119
121	10.08	0.50	0.114	(0.190)	0.033	0.081
122	10.17	0.50	0.114	(0.189)	0.033	0.081
123	10.25	0.50	0.114	(0.188)	0.033	0.081
124	10.33	0.50	0.114	(0.187)	0.033	0.081
125	10.42	0.50	0.114	(0.186)	0.033	0.081
126	10.50	0.50	0.114	(0.185)	0.033	0.081
127	10.58	0.67	0.152	(0.185)	0.044	0.108
128	10.67	0.67	0.152	(0.184)	0.044	0.108
129	10.75	0.67	0.152	(0.183)	0.044	0.108
130	10.83	0.67	0.152	(0.182)	0.044	0.108
131	10.92	0.67	0.152	(0.181)	0.044	0.108
132	11.00	0.67	0.152	(0.180)	0.044	0.108
133	11.08	0.63	0.144	(0.179)	0.042	0.102
134	11.17	0.63	0.144	(0.178)	0.042	0.102
135	11.25	0.63	0.144	(0.177)	0.042	0.102
136	11.33	0.63	0.144	(0.177)	0.042	0.102
137	11.42	0.63	0.144	(0.176)	0.042	0.102
138	11.50	0.63	0.144	(0.175)	0.042	0.102
139	11.58	0.57	0.129	(0.174)	0.038	0.092
140	11.67	0.57	0.129	(0.173)	0.038	0.092
141	11.75	0.57	0.129	(0.172)	0.038	0.092
142	11.83	0.60	0.137	(0.171)	0.040	0.097
143	11.92	0.60	0.137	(0.171)	0.040	0.097
144	12.00	0.60	0.137	(0.170)	0.040	0.097
145	12.08	0.83	0.190	(0.169)	0.055	0.135
146	12.17	0.83	0.190	(0.168)	0.055	0.135
147	12.25	0.83	0.190	(0.167)	0.055	0.135

148	12.33	0.87	0.198	(0.166)	0.058	0.140
149	12.42	0.87	0.198	(0.165)	0.058	0.140
150	12.50	0.87	0.198	(0.165)	0.058	0.140
151	12.58	0.93	0.213	(0.164)	0.062	0.151
152	12.67	0.93	0.213	(0.163)	0.062	0.151
153	12.75	0.93	0.213	(0.162)	0.062	0.151
154	12.83	0.97	0.220	(0.161)	0.064	0.156
155	12.92	0.97	0.220	(0.161)	0.064	0.156
156	13.00	0.97	0.220	(0.160)	0.064	0.156
157	13.08	1.13	0.258	(0.159)	0.075	0.183
158	13.17	1.13	0.258	(0.158)	0.075	0.183
159	13.25	1.13	0.258	(0.157)	0.075	0.183
160	13.33	1.13	0.258	(0.156)	0.075	0.183
161	13.42	1.13	0.258	(0.156)	0.075	0.183
162	13.50	1.13	0.258	(0.155)	0.075	0.183
163	13.58	0.77	0.175	(0.154)	0.051	0.124
164	13.67	0.77	0.175	(0.153)	0.051	0.124
165	13.75	0.77	0.175	(0.153)	0.051	0.124
166	13.83	0.77	0.175	(0.152)	0.051	0.124
167	13.92	0.77	0.175	(0.151)	0.051	0.124
168	14.00	0.77	0.175	(0.150)	0.051	0.124
169	14.08	0.90	0.205	(0.149)	0.060	0.145
170	14.17	0.90	0.205	(0.149)	0.060	0.145
171	14.25	0.90	0.205	(0.148)	0.060	0.145
172	14.33	0.87	0.198	(0.147)	0.058	0.140
173	14.42	0.87	0.198	(0.146)	0.058	0.140
174	14.50	0.87	0.198	(0.146)	0.058	0.140
175	14.58	0.87	0.198	(0.145)	0.058	0.140
176	14.67	0.87	0.198	(0.144)	0.058	0.140
177	14.75	0.87	0.198	(0.143)	0.058	0.140
178	14.83	0.83	0.190	(0.143)	0.055	0.135
179	14.92	0.83	0.190	(0.142)	0.055	0.135
180	15.00	0.83	0.190	(0.141)	0.055	0.135
181	15.08	0.80	0.182	(0.141)	0.053	0.129
182	15.17	0.80	0.182	(0.140)	0.053	0.129
183	15.25	0.80	0.182	(0.139)	0.053	0.129
184	15.33	0.77	0.175	(0.138)	0.051	0.124
185	15.42	0.77	0.175	(0.138)	0.051	0.124
186	15.50	0.77	0.175	(0.137)	0.051	0.124
187	15.58	0.63	0.144	(0.136)	0.042	0.102
188	15.67	0.63	0.144	(0.136)	0.042	0.102
189	15.75	0.63	0.144	(0.135)	0.042	0.102
190	15.83	0.63	0.144	(0.134)	0.042	0.102
191	15.92	0.63	0.144	(0.133)	0.042	0.102
192	16.00	0.63	0.144	(0.133)	0.042	0.102
193	16.08	0.13	0.030	(0.132)	0.009	0.022
194	16.17	0.13	0.030	(0.131)	0.009	0.022
195	16.25	0.13	0.030	(0.131)	0.009	0.022
196	16.33	0.13	0.030	(0.130)	0.009	0.022
197	16.42	0.13	0.030	(0.129)	0.009	0.022

198	16.50	0.13	0.030	(0.129)	0.009	0.022
199	16.58	0.10	0.023	(0.128)	0.007	0.016
200	16.67	0.10	0.023	(0.127)	0.007	0.016
201	16.75	0.10	0.023	(0.127)	0.007	0.016
202	16.83	0.10	0.023	(0.126)	0.007	0.016
203	16.92	0.10	0.023	(0.126)	0.007	0.016
204	17.00	0.10	0.023	(0.125)	0.007	0.016
205	17.08	0.17	0.038	(0.124)	0.011	0.027
206	17.17	0.17	0.038	(0.124)	0.011	0.027
207	17.25	0.17	0.038	(0.123)	0.011	0.027
208	17.33	0.17	0.038	(0.122)	0.011	0.027
209	17.42	0.17	0.038	(0.122)	0.011	0.027
210	17.50	0.17	0.038	(0.121)	0.011	0.027
211	17.58	0.17	0.038	(0.121)	0.011	0.027
212	17.67	0.17	0.038	(0.120)	0.011	0.027
213	17.75	0.17	0.038	(0.119)	0.011	0.027
214	17.83	0.13	0.030	(0.119)	0.009	0.022
215	17.92	0.13	0.030	(0.118)	0.009	0.022
216	18.00	0.13	0.030	(0.118)	0.009	0.022
217	18.08	0.13	0.030	(0.117)	0.009	0.022
218	18.17	0.13	0.030	(0.116)	0.009	0.022
219	18.25	0.13	0.030	(0.116)	0.009	0.022
220	18.33	0.13	0.030	(0.115)	0.009	0.022
221	18.42	0.13	0.030	(0.115)	0.009	0.022
222	18.50	0.13	0.030	(0.114)	0.009	0.022
223	18.58	0.10	0.023	(0.114)	0.007	0.016
224	18.67	0.10	0.023	(0.113)	0.007	0.016
225	18.75	0.10	0.023	(0.113)	0.007	0.016
226	18.83	0.07	0.015	(0.112)	0.004	0.011
227	18.92	0.07	0.015	(0.112)	0.004	0.011
228	19.00	0.07	0.015	(0.111)	0.004	0.011
229	19.08	0.10	0.023	(0.110)	0.007	0.016
230	19.17	0.10	0.023	(0.110)	0.007	0.016
231	19.25	0.10	0.023	(0.109)	0.007	0.016
232	19.33	0.13	0.030	(0.109)	0.009	0.022
233	19.42	0.13	0.030	(0.108)	0.009	0.022
234	19.50	0.13	0.030	(0.108)	0.009	0.022
235	19.58	0.10	0.023	(0.107)	0.007	0.016
236	19.67	0.10	0.023	(0.107)	0.007	0.016
237	19.75	0.10	0.023	(0.106)	0.007	0.016
238	19.83	0.07	0.015	(0.106)	0.004	0.011
239	19.92	0.07	0.015	(0.105)	0.004	0.011
240	20.00	0.07	0.015	(0.105)	0.004	0.011
241	20.08	0.10	0.023	(0.105)	0.007	0.016
242	20.17	0.10	0.023	(0.104)	0.007	0.016
243	20.25	0.10	0.023	(0.104)	0.007	0.016
244	20.33	0.10	0.023	(0.103)	0.007	0.016
245	20.42	0.10	0.023	(0.103)	0.007	0.016
246	20.50	0.10	0.023	(0.102)	0.007	0.016
247	20.58	0.10	0.023	(0.102)	0.007	0.016

248	20.67	0.10	0.023	(0.101)	0.007	0.016
249	20.75	0.10	0.023	(0.101)	0.007	0.016
250	20.83	0.07	0.015	(0.101)	0.004	0.011
251	20.92	0.07	0.015	(0.100)	0.004	0.011
252	21.00	0.07	0.015	(0.100)	0.004	0.011
253	21.08	0.10	0.023	(0.099)	0.007	0.016
254	21.17	0.10	0.023	(0.099)	0.007	0.016
255	21.25	0.10	0.023	(0.099)	0.007	0.016
256	21.33	0.07	0.015	(0.098)	0.004	0.011
257	21.42	0.07	0.015	(0.098)	0.004	0.011
258	21.50	0.07	0.015	(0.098)	0.004	0.011
259	21.58	0.10	0.023	(0.097)	0.007	0.016
260	21.67	0.10	0.023	(0.097)	0.007	0.016
261	21.75	0.10	0.023	(0.096)	0.007	0.016
262	21.83	0.07	0.015	(0.096)	0.004	0.011
263	21.92	0.07	0.015	(0.096)	0.004	0.011
264	22.00	0.07	0.015	(0.095)	0.004	0.011
265	22.08	0.10	0.023	(0.095)	0.007	0.016
266	22.17	0.10	0.023	(0.095)	0.007	0.016
267	22.25	0.10	0.023	(0.095)	0.007	0.016
268	22.33	0.07	0.015	(0.094)	0.004	0.011
269	22.42	0.07	0.015	(0.094)	0.004	0.011
270	22.50	0.07	0.015	(0.094)	0.004	0.011
271	22.58	0.07	0.015	(0.093)	0.004	0.011
272	22.67	0.07	0.015	(0.093)	0.004	0.011
273	22.75	0.07	0.015	(0.093)	0.004	0.011
274	22.83	0.07	0.015	(0.093)	0.004	0.011
275	22.92	0.07	0.015	(0.092)	0.004	0.011
276	23.00	0.07	0.015	(0.092)	0.004	0.011
277	23.08	0.07	0.015	(0.092)	0.004	0.011
278	23.17	0.07	0.015	(0.092)	0.004	0.011
279	23.25	0.07	0.015	(0.092)	0.004	0.011
280	23.33	0.07	0.015	(0.091)	0.004	0.011
281	23.42	0.07	0.015	(0.091)	0.004	0.011
282	23.50	0.07	0.015	(0.091)	0.004	0.011
283	23.58	0.07	0.015	(0.091)	0.004	0.011
284	23.67	0.07	0.015	(0.091)	0.004	0.011
285	23.75	0.07	0.015	(0.091)	0.004	0.011
286	23.83	0.07	0.015	(0.091)	0.004	0.011
287	23.92	0.07	0.015	(0.090)	0.004	0.011
288	24.00	0.07	0.015	(0.090)	0.004	0.011

(Loss Rate Not Used)

Sum = 100.0

Sum = 16.2

Flood volume = Effective rainfall 1.35(In)
times area 1.6(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 0.55(In)
Total soil loss = 0.073(Ac.Ft)
Total rainfall = 1.90(In)
Flood volume = 7726.1 Cubic Feet
Total soil loss = 3171.1 Cubic Feet

 Peak flow rate of this hydrograph = 0.292(CFS)

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

 Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0002	0.02	Q				
0+15	0.0003	0.02	Q				
0+20	0.0005	0.02	Q				
0+25	0.0007	0.03	Q				
0+30	0.0008	0.03	Q				
0+35	0.0010	0.03	Q				
0+40	0.0012	0.03	Q				
0+45	0.0014	0.03	Q				
0+50	0.0016	0.03	Q				
0+55	0.0018	0.03	Q				
1+ 0	0.0021	0.03	Q				
1+ 5	0.0023	0.03	Q				
1+10	0.0024	0.03	Q				
1+15	0.0026	0.03	Q				
1+20	0.0028	0.03	Q				
1+25	0.0030	0.03	Q				
1+30	0.0031	0.03	Q				
1+35	0.0033	0.03	Q				
1+40	0.0035	0.03	Q				
1+45	0.0037	0.03	Q				
1+50	0.0039	0.03	Q				
1+55	0.0041	0.03	Q				
2+ 0	0.0044	0.03	Q				
2+ 5	0.0046	0.03	QV				
2+10	0.0048	0.03	QV				
2+15	0.0051	0.03	QV				
2+20	0.0053	0.03	QV				
2+25	0.0056	0.03	QV				
2+30	0.0058	0.03	QV				
2+35	0.0061	0.04	QV				
2+40	0.0064	0.04	QV				
2+45	0.0067	0.04	QV				
2+50	0.0070	0.04	QV				
2+55	0.0072	0.04	QV				
3+ 0	0.0075	0.04	QV				
3+ 5	0.0078	0.04	QV				
3+10	0.0081	0.04	QV				

3+15	0.0084	0.04	QV
3+20	0.0087	0.04	QV
3+25	0.0090	0.04	Q V
3+30	0.0093	0.04	Q V
3+35	0.0096	0.04	Q V
3+40	0.0099	0.04	Q V
3+45	0.0102	0.04	Q V
3+50	0.0105	0.05	Q V
3+55	0.0109	0.05	Q V
4+ 0	0.0113	0.05	Q V
4+ 5	0.0116	0.05	Q V
4+10	0.0120	0.05	Q V
4+15	0.0123	0.05	Q V
4+20	0.0127	0.06	Q V
4+25	0.0131	0.06	Q V
4+30	0.0135	0.06	Q V
4+35	0.0140	0.06	Q V
4+40	0.0144	0.06	Q V
4+45	0.0148	0.06	Q V
4+50	0.0152	0.07	Q V
4+55	0.0157	0.07	Q V
5+ 0	0.0162	0.07	Q V
5+ 5	0.0166	0.06	Q V
5+10	0.0169	0.05	Q V
5+15	0.0173	0.05	Q V
5+20	0.0177	0.06	Q V
5+25	0.0181	0.06	Q V
5+30	0.0185	0.06	Q V
5+35	0.0190	0.07	Q V
5+40	0.0194	0.07	Q V
5+45	0.0199	0.07	Q V
5+50	0.0204	0.07	Q V
5+55	0.0209	0.07	Q V
6+ 0	0.0213	0.07	Q V
6+ 5	0.0218	0.07	Q V
6+10	0.0224	0.08	Q V
6+15	0.0229	0.08	Q V
6+20	0.0234	0.08	Q V
6+25	0.0240	0.08	Q V
6+30	0.0245	0.08	Q V
6+35	0.0251	0.08	Q V
6+40	0.0257	0.09	Q V
6+45	0.0263	0.09	Q V
6+50	0.0269	0.09	Q V
6+55	0.0274	0.09	Q V
7+ 0	0.0280	0.09	Q V
7+ 5	0.0286	0.09	Q V
7+10	0.0292	0.09	Q V
7+15	0.0298	0.09	Q V
7+20	0.0304	0.09	Q V

7+25	0.0311	0.09	Q	V				
7+30	0.0317	0.09	Q	V				
7+35	0.0324	0.10	Q	V				
7+40	0.0331	0.10	Q	V				
7+45	0.0339	0.10	Q	V				
7+50	0.0346	0.11	Q	V				
7+55	0.0354	0.11	Q	V				
8+ 0	0.0361	0.11	Q	V				
8+ 5	0.0370	0.12	Q	V				
8+10	0.0379	0.13	Q	V				
8+15	0.0388	0.13	Q	V				
8+20	0.0397	0.13	Q	V				
8+25	0.0405	0.13	Q	V				
8+30	0.0414	0.13	Q	V				
8+35	0.0424	0.13	Q	V				
8+40	0.0433	0.14	Q	V				
8+45	0.0443	0.14	Q	V				
8+50	0.0452	0.14	Q	V				
8+55	0.0463	0.15	Q	V				
9+ 0	0.0473	0.15	Q	V				
9+ 5	0.0483	0.16	Q	V				
9+10	0.0495	0.16	Q	V				
9+15	0.0506	0.16	Q	V				
9+20	0.0518	0.17	Q	V				
9+25	0.0529	0.17	Q	V				
9+30	0.0541	0.17	Q	V				
9+35	0.0553	0.18	Q	V				
9+40	0.0566	0.18	Q	V				
9+45	0.0578	0.18	Q	V				
9+50	0.0591	0.19	Q	V				
9+55	0.0604	0.19	Q	V				
10+ 0	0.0617	0.19	Q	V				
10+ 5	0.0627	0.15	Q	V				
10+10	0.0636	0.13	Q	V				
10+15	0.0645	0.13	Q	V				
10+20	0.0654	0.13	Q	V				
10+25	0.0663	0.13	Q	V				
10+30	0.0672	0.13	Q	V				
10+35	0.0683	0.16	Q	V				
10+40	0.0694	0.17	Q	V				
10+45	0.0706	0.17	Q	V				
10+50	0.0718	0.17	Q	V				
10+55	0.0730	0.17	Q	V				
11+ 0	0.0742	0.17	Q	V				
11+ 5	0.0753	0.17	Q	V				
11+10	0.0764	0.16	Q	V				
11+15	0.0776	0.16	Q	V				
11+20	0.0787	0.16	Q	V				
11+25	0.0798	0.16	Q	V				
11+30	0.0809	0.16	Q	V				

11+35	0.0820	0.15	Q	V			
11+40	0.0830	0.15	Q	V			
11+45	0.0840	0.15	Q	V			
11+50	0.0850	0.15	Q	V			
11+55	0.0861	0.15	Q	V			
12+ 0	0.0871	0.15	Q	V			
12+ 5	0.0885	0.20	Q	V			
12+10	0.0900	0.21	Q	V			
12+15	0.0915	0.21	Q	V			
12+20	0.0930	0.22	Q	V			
12+25	0.0945	0.22	Q	V			
12+30	0.0961	0.22	Q	V			
12+35	0.0977	0.24	Q	V			
12+40	0.0993	0.24	Q	V			
12+45	0.1010	0.24	Q	V			
12+50	0.1027	0.25	Q	V			
12+55	0.1044	0.25	Q	V			
13+ 0	0.1061	0.25	Q	V			
13+ 5	0.1081	0.28	Q	V			
13+10	0.1101	0.29	Q	V			
13+15	0.1121	0.29	Q	V			
13+20	0.1141	0.29	Q	V			
13+25	0.1161	0.29	Q	V			
13+30	0.1181	0.29	Q	V			
13+35	0.1196	0.22	Q	V			
13+40	0.1210	0.20	Q	V			
13+45	0.1224	0.20	Q	V			
13+50	0.1237	0.20	Q	V			
13+55	0.1251	0.20	Q	V			
14+ 0	0.1264	0.20	Q	V			
14+ 5	0.1280	0.22	Q	V			
14+10	0.1296	0.23	Q	V			
14+15	0.1312	0.23	Q	V			
14+20	0.1327	0.23	Q	V			
14+25	0.1343	0.22	Q	V			
14+30	0.1358	0.22	Q	V			
14+35	0.1373	0.22	Q	V			
14+40	0.1389	0.22	Q	V			
14+45	0.1404	0.22	Q	V			
14+50	0.1419	0.22	Q	V			
14+55	0.1434	0.21	Q	V			
15+ 0	0.1449	0.21	Q	V			
15+ 5	0.1463	0.21	Q	V			
15+10	0.1477	0.21	Q	V			
15+15	0.1491	0.21	Q	V			
15+20	0.1505	0.20	Q	V			
15+25	0.1519	0.20	Q	V			
15+30	0.1532	0.20	Q	V			
15+35	0.1544	0.17	Q	V			
15+40	0.1555	0.16	Q	V			

15+45	0.1567	0.16	Q				V
15+50	0.1578	0.16	Q				V
15+55	0.1589	0.16	Q				V
16+ 0	0.1600	0.16	Q				V
16+ 5	0.1605	0.07	Q				V
16+10	0.1607	0.03	Q				V
16+15	0.1610	0.03	Q				V
16+20	0.1612	0.03	Q				V
16+25	0.1615	0.03	Q				V
16+30	0.1617	0.03	Q				V
16+35	0.1619	0.03	Q				V
16+40	0.1621	0.03	Q				V
16+45	0.1622	0.03	Q				V
16+50	0.1624	0.03	Q				V
16+55	0.1626	0.03	Q				V
17+ 0	0.1628	0.03	Q				V
17+ 5	0.1630	0.04	Q				V
17+10	0.1633	0.04	Q				V
17+15	0.1636	0.04	Q				V
17+20	0.1639	0.04	Q				V
17+25	0.1642	0.04	Q				V
17+30	0.1645	0.04	Q				V
17+35	0.1648	0.04	Q				V
17+40	0.1651	0.04	Q				V
17+45	0.1654	0.04	Q				V
17+50	0.1657	0.04	Q				V
17+55	0.1659	0.03	Q				V
18+ 0	0.1661	0.03	Q				V
18+ 5	0.1664	0.03	Q				V
18+10	0.1666	0.03	Q				V
18+15	0.1668	0.03	Q				V
18+20	0.1671	0.03	Q				V
18+25	0.1673	0.03	Q				V
18+30	0.1675	0.03	Q				V
18+35	0.1677	0.03	Q				V
18+40	0.1679	0.03	Q				V
18+45	0.1681	0.03	Q				V
18+50	0.1682	0.02	Q				V
18+55	0.1683	0.02	Q				V
19+ 0	0.1685	0.02	Q				V
19+ 5	0.1686	0.02	Q				V
19+10	0.1688	0.03	Q				V
19+15	0.1690	0.03	Q				V
19+20	0.1692	0.03	Q				V
19+25	0.1694	0.03	Q				V
19+30	0.1697	0.03	Q				V
19+35	0.1699	0.03	Q				V
19+40	0.1700	0.03	Q				V
19+45	0.1702	0.03	Q				V
19+50	0.1704	0.02	Q				V

19+55	0.1705	0.02	Q				V
20+ 0	0.1706	0.02	Q				V
20+ 5	0.1708	0.02	Q				V
20+10	0.1709	0.03	Q				V
20+15	0.1711	0.03	Q				V
20+20	0.1713	0.03	Q				V
20+25	0.1715	0.03	Q				V
20+30	0.1716	0.03	Q				V
20+35	0.1718	0.03	Q				V
20+40	0.1720	0.03	Q				V
20+45	0.1722	0.03	Q				V
20+50	0.1723	0.02	Q				V
20+55	0.1724	0.02	Q				V
21+ 0	0.1725	0.02	Q				V
21+ 5	0.1727	0.02	Q				V
21+10	0.1729	0.03	Q				V
21+15	0.1731	0.03	Q				V
21+20	0.1732	0.02	Q				V
21+25	0.1733	0.02	Q				V
21+30	0.1734	0.02	Q				V
21+35	0.1736	0.02	Q				V
21+40	0.1738	0.03	Q				V
21+45	0.1739	0.03	Q				V
21+50	0.1741	0.02	Q				V
21+55	0.1742	0.02	Q				V
22+ 0	0.1743	0.02	Q				V
22+ 5	0.1745	0.02	Q				V
22+10	0.1747	0.03	Q				V
22+15	0.1748	0.03	Q				V
22+20	0.1750	0.02	Q				V
22+25	0.1751	0.02	Q				V
22+30	0.1752	0.02	Q				V
22+35	0.1753	0.02	Q				V
22+40	0.1754	0.02	Q				V
22+45	0.1756	0.02	Q				V
22+50	0.1757	0.02	Q				V
22+55	0.1758	0.02	Q				V
23+ 0	0.1759	0.02	Q				V
23+ 5	0.1760	0.02	Q				V
23+10	0.1762	0.02	Q				V
23+15	0.1763	0.02	Q				V
23+20	0.1764	0.02	Q				V
23+25	0.1765	0.02	Q				V
23+30	0.1766	0.02	Q				V
23+35	0.1767	0.02	Q				V
23+40	0.1769	0.02	Q				V
23+45	0.1770	0.02	Q				V
23+50	0.1771	0.02	Q				V
23+55	0.1772	0.02	Q				V
24+ 0	0.1773	0.02	Q				V

24+ 5

0.1774

0.00 Q

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DMA 2 Proposed 5-Year

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH15.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-1HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	0.48	0.76

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.25	1.98

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.660(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 0.660(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	527.815	72.250	1.150
2	0.167	1055.631	27.750	0.442
		Sum = 100.000	Sum=	1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	4.40	0.349	(0.181)	0.101	0.247
2	0.17	4.50	0.357	(0.181)	0.104	0.253
3	0.25	5.40	0.428	(0.181)	0.125	0.303
4	0.33	5.40	0.428	(0.181)	0.125	0.303
5	0.42	5.70	0.452	(0.181)	0.131	0.320
6	0.50	6.40	0.507	(0.181)	0.148	0.360
7	0.58	7.90	0.626	0.181	(0.182)	0.445
8	0.67	9.10	0.721	0.181	(0.210)	0.540
9	0.75	12.80	1.014	0.181	(0.295)	0.833
10	0.83	25.60	2.029	0.181	(0.590)	1.848
11	0.92	7.90	0.626	0.181	(0.182)	0.445
12	1.00	4.90	0.388	(0.181)	0.113	0.275

(Loss Rate Not Used)

Sum = 100.0 Sum = 6.2

Flood volume = Effective rainfall 0.51(In)
times area 1.6(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.019(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 2950.7 Cubic Feet
Total soil loss = 836.7 Cubic Feet

Peak flow rate of this hydrograph = 2.495(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0020	0.28	Q				
0+10	0.0047	0.40	QV				
0+15	0.0079	0.46	Q V				
0+20	0.0112	0.48	Q V				
0+25	0.0147	0.50	Q V				
0+30	0.0185	0.56	Q V				
0+35	0.0231	0.67	Q	V			
0+40	0.0288	0.82	Q	V			
0+45	0.0370	1.20	Q		V		
0+50	0.0542	2.50	Q	Q		V	
0+55	0.0634	1.33	Q			V	V
1+ 0	0.0669	0.51	Q				V

1+ 5

0.0677

0.12 Q

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Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH35.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-3HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	0.80	1.26

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.95	3.08

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.069(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.069(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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

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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	2.5	5.0	7.5	10.0
0+ 5	0.0009		0.14	Q				
0+10	0.0022		0.19	Q				
0+15	0.0034		0.17	QV				
0+20	0.0048		0.20	QV				
0+25	0.0063		0.22	Q V				
0+30	0.0080		0.25	Q V				
0+35	0.0096		0.23	Q V				
0+40	0.0113		0.25	Q V				
0+45	0.0131		0.26	Q V				
0+50	0.0147		0.23	Q V				
0+55	0.0162		0.23	Q V				
1+ 0	0.0180		0.25	Q V				
1+ 5	0.0201		0.30	Q V				
1+10	0.0223		0.32	Q V				
1+15	0.0244		0.32	Q V				
1+20	0.0265		0.30	Q V				
1+25	0.0289		0.35	Q V				
1+30	0.0316		0.39	Q V				
1+35	0.0341		0.36	Q V				
1+40	0.0367		0.38	Q V				
1+45	0.0398		0.45	Q V				
1+50	0.0430		0.46	Q V				
1+55	0.0459		0.43	Q V				
2+ 0	0.0489		0.43	Q V				
2+ 5	0.0519		0.45	Q V				
2+10	0.0558		0.56	Q V				
2+15	0.0607		0.70	Q V				
2+20	0.0646		0.57	Q V				
2+25	0.0710		0.94	Q V				
2+30	0.0791		1.18	Q V				
2+35	0.0883		1.34	Q V				
2+40	0.0956		1.05	Q V				
2+45	0.0988		0.46	Q V				
2+50	0.1006		0.27	Q V				
2+55	0.1024		0.26	Q V				
3+ 0	0.1033		0.14	Q V				
3+ 5	0.1035		0.02	Q V				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH65.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-6HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.11	1.75

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	2.70	4.27

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.482(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.482(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.089	(0.181)	0.026	0.063
2	0.17	0.60	0.107	(0.181)	0.031	0.076
3	0.25	0.60	0.107	(0.181)	0.031	0.076
4	0.33	0.60	0.107	(0.181)	0.031	0.076
5	0.42	0.60	0.107	(0.181)	0.031	0.076
6	0.50	0.70	0.125	(0.181)	0.036	0.088
7	0.58	0.70	0.125	(0.181)	0.036	0.088
8	0.67	0.70	0.125	(0.181)	0.036	0.088
9	0.75	0.70	0.125	(0.181)	0.036	0.088
10	0.83	0.70	0.125	(0.181)	0.036	0.088
11	0.92	0.70	0.125	(0.181)	0.036	0.088
12	1.00	0.80	0.142	(0.181)	0.041	0.101
13	1.08	0.80	0.142	(0.181)	0.041	0.101
14	1.17	0.80	0.142	(0.181)	0.041	0.101
15	1.25	0.80	0.142	(0.181)	0.041	0.101
16	1.33	0.80	0.142	(0.181)	0.041	0.101
17	1.42	0.80	0.142	(0.181)	0.041	0.101
18	1.50	0.80	0.142	(0.181)	0.041	0.101
19	1.58	0.80	0.142	(0.181)	0.041	0.101
20	1.67	0.80	0.142	(0.181)	0.041	0.101
21	1.75	0.80	0.142	(0.181)	0.041	0.101
22	1.83	0.80	0.142	(0.181)	0.041	0.101
23	1.92	0.80	0.142	(0.181)	0.041	0.101
24	2.00	0.90	0.160	(0.181)	0.047	0.114
25	2.08	0.80	0.142	(0.181)	0.041	0.101
26	2.17	0.90	0.160	(0.181)	0.047	0.114
27	2.25	0.90	0.160	(0.181)	0.047	0.114
28	2.33	0.90	0.160	(0.181)	0.047	0.114
29	2.42	0.90	0.160	(0.181)	0.047	0.114
30	2.50	0.90	0.160	(0.181)	0.047	0.114
31	2.58	0.90	0.160	(0.181)	0.047	0.114
32	2.67	0.90	0.160	(0.181)	0.047	0.114
33	2.75	1.00	0.178	(0.181)	0.052	0.126
34	2.83	1.00	0.178	(0.181)	0.052	0.126
35	2.92	1.00	0.178	(0.181)	0.052	0.126
36	3.00	1.00	0.178	(0.181)	0.052	0.126
37	3.08	1.00	0.178	(0.181)	0.052	0.126
38	3.17	1.10	0.196	(0.181)	0.057	0.139
39	3.25	1.10	0.196	(0.181)	0.057	0.139
40	3.33	1.10	0.196	(0.181)	0.057	0.139
41	3.42	1.20	0.213	(0.181)	0.062	0.151
42	3.50	1.30	0.231	(0.181)	0.067	0.164
43	3.58	1.40	0.249	(0.181)	0.072	0.177
44	3.67	1.40	0.249	(0.181)	0.072	0.177
45	3.75	1.50	0.267	(0.181)	0.078	0.189
46	3.83	1.50	0.267	(0.181)	0.078	0.189
47	3.92	1.60	0.285	(0.181)	0.083	0.202

0+25	0.0038	0.12	QV				
0+30	0.0047	0.14	QV				
0+35	0.0057	0.14	QV				
0+40	0.0067	0.14	QV				
0+45	0.0076	0.14	Q V				
0+50	0.0086	0.14	Q V				
0+55	0.0096	0.14	Q V				
1+ 0	0.0106	0.16	Q V				
1+ 5	0.0117	0.16	Q V				
1+10	0.0128	0.16	Q V				
1+15	0.0139	0.16	Q V				
1+20	0.0151	0.16	Q V				
1+25	0.0162	0.16	Q V				
1+30	0.0173	0.16	Q V				
1+35	0.0184	0.16	Q V				
1+40	0.0195	0.16	Q V				
1+45	0.0206	0.16	Q V				
1+50	0.0217	0.16	Q V				
1+55	0.0228	0.16	Q V				
2+ 0	0.0240	0.18	Q V				
2+ 5	0.0252	0.17	Q V				
2+10	0.0264	0.18	Q V				
2+15	0.0276	0.18	Q V				
2+20	0.0289	0.18	Q V				
2+25	0.0301	0.18	Q V				
2+30	0.0313	0.18	Q V				
2+35	0.0326	0.18	Q V				
2+40	0.0338	0.18	Q V				
2+45	0.0352	0.20	Q V				
2+50	0.0366	0.20	Q V				
2+55	0.0379	0.20	Q V				
3+ 0	0.0393	0.20	Q V				
3+ 5	0.0407	0.20	Q V				
3+10	0.0422	0.22	Q V				
3+15	0.0437	0.22	Q V				
3+20	0.0452	0.22	Q V				
3+25	0.0469	0.24	Q V				
3+30	0.0486	0.26	Q V				
3+35	0.0505	0.28	Q V				
3+40	0.0525	0.28	Q V				
3+45	0.0545	0.30	Q V				
3+50	0.0566	0.30	Q V				
3+55	0.0588	0.32	Q V				
4+ 0	0.0610	0.32	Q V				
4+ 5	0.0633	0.34	Q V				
4+10	0.0657	0.36	Q V				
4+15	0.0683	0.38	Q V				
4+20	0.0711	0.40	Q V				
4+25	0.0739	0.42	Q V				
4+30	0.0768	0.42	Q V				

4+35	0.0798	0.44	Q		V		
4+40	0.0830	0.46	Q		V		
4+45	0.0863	0.48	Q		V		
4+50	0.0896	0.48	Q		V		
4+55	0.0930	0.50	Q		V		
5+ 0	0.0966	0.52	Q		V		
5+ 5	0.1007	0.60	Q		V		
5+10	0.1055	0.70	Q		V		
5+15	0.1110	0.79	Q		V		
5+20	0.1170	0.88	Q		V		
5+25	0.1239	1.00	Q		V		
5+30	0.1324	1.23	Q		V		
5+35	0.1368	0.64	Q		V		
5+40	0.1384	0.24	Q		V		
5+45	0.1393	0.14	Q		V		
5+50	0.1401	0.11	Q		V		
5+55	0.1406	0.07	Q		V		
6+ 0	0.1409	0.05	Q		V		
6+ 5	0.1410	0.01	Q		V		

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH245.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-24HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	1.90	3.00

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	4.80	7.58

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 2.579(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.579(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.761	0.181	1.000	0.181
Sum (F) =						0.181

Area averaged mean soil loss (F) (In/Hr) = 0.181
 Minimum soil loss rate ((In/Hr)) = 0.090
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.021	(0.321)	0.006	0.015
2	0.17	0.07	0.021	(0.319)	0.006	0.015
3	0.25	0.07	0.021	(0.318)	0.006	0.015
4	0.33	0.10	0.031	(0.317)	0.009	0.022
5	0.42	0.10	0.031	(0.316)	0.009	0.022
6	0.50	0.10	0.031	(0.314)	0.009	0.022
7	0.58	0.10	0.031	(0.313)	0.009	0.022
8	0.67	0.10	0.031	(0.312)	0.009	0.022
9	0.75	0.10	0.031	(0.311)	0.009	0.022
10	0.83	0.13	0.041	(0.310)	0.012	0.029
11	0.92	0.13	0.041	(0.308)	0.012	0.029
12	1.00	0.13	0.041	(0.307)	0.012	0.029
13	1.08	0.10	0.031	(0.306)	0.009	0.022
14	1.17	0.10	0.031	(0.305)	0.009	0.022
15	1.25	0.10	0.031	(0.303)	0.009	0.022
16	1.33	0.10	0.031	(0.302)	0.009	0.022
17	1.42	0.10	0.031	(0.301)	0.009	0.022
18	1.50	0.10	0.031	(0.300)	0.009	0.022
19	1.58	0.10	0.031	(0.299)	0.009	0.022
20	1.67	0.10	0.031	(0.297)	0.009	0.022
21	1.75	0.10	0.031	(0.296)	0.009	0.022
22	1.83	0.13	0.041	(0.295)	0.012	0.029
23	1.92	0.13	0.041	(0.294)	0.012	0.029
24	2.00	0.13	0.041	(0.293)	0.012	0.029
25	2.08	0.13	0.041	(0.292)	0.012	0.029
26	2.17	0.13	0.041	(0.290)	0.012	0.029
27	2.25	0.13	0.041	(0.289)	0.012	0.029
28	2.33	0.13	0.041	(0.288)	0.012	0.029
29	2.42	0.13	0.041	(0.287)	0.012	0.029
30	2.50	0.13	0.041	(0.286)	0.012	0.029
31	2.58	0.17	0.052	(0.284)	0.015	0.037
32	2.67	0.17	0.052	(0.283)	0.015	0.037
33	2.75	0.17	0.052	(0.282)	0.015	0.037
34	2.83	0.17	0.052	(0.281)	0.015	0.037
35	2.92	0.17	0.052	(0.280)	0.015	0.037
36	3.00	0.17	0.052	(0.279)	0.015	0.037
37	3.08	0.17	0.052	(0.277)	0.015	0.037
38	3.17	0.17	0.052	(0.276)	0.015	0.037
39	3.25	0.17	0.052	(0.275)	0.015	0.037
40	3.33	0.17	0.052	(0.274)	0.015	0.037
41	3.42	0.17	0.052	(0.273)	0.015	0.037
42	3.50	0.17	0.052	(0.272)	0.015	0.037
43	3.58	0.17	0.052	(0.271)	0.015	0.037
44	3.67	0.17	0.052	(0.269)	0.015	0.037
45	3.75	0.17	0.052	(0.268)	0.015	0.037
46	3.83	0.20	0.062	(0.267)	0.018	0.044
47	3.92	0.20	0.062	(0.266)	0.018	0.044

48	4.00	0.20	0.062	(0.265)	0.018	0.044
49	4.08	0.20	0.062	(0.264)	0.018	0.044
50	4.17	0.20	0.062	(0.263)	0.018	0.044
51	4.25	0.20	0.062	(0.262)	0.018	0.044
52	4.33	0.23	0.072	(0.260)	0.021	0.051
53	4.42	0.23	0.072	(0.259)	0.021	0.051
54	4.50	0.23	0.072	(0.258)	0.021	0.051
55	4.58	0.23	0.072	(0.257)	0.021	0.051
56	4.67	0.23	0.072	(0.256)	0.021	0.051
57	4.75	0.23	0.072	(0.255)	0.021	0.051
58	4.83	0.27	0.083	(0.254)	0.024	0.059
59	4.92	0.27	0.083	(0.253)	0.024	0.059
60	5.00	0.27	0.083	(0.252)	0.024	0.059
61	5.08	0.20	0.062	(0.251)	0.018	0.044
62	5.17	0.20	0.062	(0.249)	0.018	0.044
63	5.25	0.20	0.062	(0.248)	0.018	0.044
64	5.33	0.23	0.072	(0.247)	0.021	0.051
65	5.42	0.23	0.072	(0.246)	0.021	0.051
66	5.50	0.23	0.072	(0.245)	0.021	0.051
67	5.58	0.27	0.083	(0.244)	0.024	0.059
68	5.67	0.27	0.083	(0.243)	0.024	0.059
69	5.75	0.27	0.083	(0.242)	0.024	0.059
70	5.83	0.27	0.083	(0.241)	0.024	0.059
71	5.92	0.27	0.083	(0.240)	0.024	0.059
72	6.00	0.27	0.083	(0.239)	0.024	0.059
73	6.08	0.30	0.093	(0.238)	0.027	0.066
74	6.17	0.30	0.093	(0.237)	0.027	0.066
75	6.25	0.30	0.093	(0.236)	0.027	0.066
76	6.33	0.30	0.093	(0.235)	0.027	0.066
77	6.42	0.30	0.093	(0.233)	0.027	0.066
78	6.50	0.30	0.093	(0.232)	0.027	0.066
79	6.58	0.33	0.103	(0.231)	0.030	0.073
80	6.67	0.33	0.103	(0.230)	0.030	0.073
81	6.75	0.33	0.103	(0.229)	0.030	0.073
82	6.83	0.33	0.103	(0.228)	0.030	0.073
83	6.92	0.33	0.103	(0.227)	0.030	0.073
84	7.00	0.33	0.103	(0.226)	0.030	0.073
85	7.08	0.33	0.103	(0.225)	0.030	0.073
86	7.17	0.33	0.103	(0.224)	0.030	0.073
87	7.25	0.33	0.103	(0.223)	0.030	0.073
88	7.33	0.37	0.113	(0.222)	0.033	0.080
89	7.42	0.37	0.113	(0.221)	0.033	0.080
90	7.50	0.37	0.113	(0.220)	0.033	0.080
91	7.58	0.40	0.124	(0.219)	0.036	0.088
92	7.67	0.40	0.124	(0.218)	0.036	0.088
93	7.75	0.40	0.124	(0.217)	0.036	0.088
94	7.83	0.43	0.134	(0.216)	0.039	0.095
95	7.92	0.43	0.134	(0.215)	0.039	0.095
96	8.00	0.43	0.134	(0.214)	0.039	0.095
97	8.08	0.50	0.155	(0.213)	0.045	0.110

98	8.17	0.50	0.155	(0.212)	0.045	0.110
99	8.25	0.50	0.155	(0.211)	0.045	0.110
100	8.33	0.50	0.155	(0.210)	0.045	0.110
101	8.42	0.50	0.155	(0.209)	0.045	0.110
102	8.50	0.50	0.155	(0.208)	0.045	0.110
103	8.58	0.53	0.165	(0.207)	0.048	0.117
104	8.67	0.53	0.165	(0.206)	0.048	0.117
105	8.75	0.53	0.165	(0.205)	0.048	0.117
106	8.83	0.57	0.175	(0.204)	0.051	0.124
107	8.92	0.57	0.175	(0.203)	0.051	0.124
108	9.00	0.57	0.175	(0.202)	0.051	0.124
109	9.08	0.63	0.196	(0.201)	0.057	0.139
110	9.17	0.63	0.196	(0.200)	0.057	0.139
111	9.25	0.63	0.196	(0.199)	0.057	0.139
112	9.33	0.67	0.206	(0.198)	0.060	0.146
113	9.42	0.67	0.206	(0.198)	0.060	0.146
114	9.50	0.67	0.206	(0.197)	0.060	0.146
115	9.58	0.70	0.217	(0.196)	0.063	0.154
116	9.67	0.70	0.217	(0.195)	0.063	0.154
117	9.75	0.70	0.217	(0.194)	0.063	0.154
118	9.83	0.73	0.227	(0.193)	0.066	0.161
119	9.92	0.73	0.227	(0.192)	0.066	0.161
120	10.00	0.73	0.227	(0.191)	0.066	0.161
121	10.08	0.50	0.155	(0.190)	0.045	0.110
122	10.17	0.50	0.155	(0.189)	0.045	0.110
123	10.25	0.50	0.155	(0.188)	0.045	0.110
124	10.33	0.50	0.155	(0.187)	0.045	0.110
125	10.42	0.50	0.155	(0.186)	0.045	0.110
126	10.50	0.50	0.155	(0.185)	0.045	0.110
127	10.58	0.67	0.206	(0.185)	0.060	0.146
128	10.67	0.67	0.206	(0.184)	0.060	0.146
129	10.75	0.67	0.206	(0.183)	0.060	0.146
130	10.83	0.67	0.206	(0.182)	0.060	0.146
131	10.92	0.67	0.206	(0.181)	0.060	0.146
132	11.00	0.67	0.206	(0.180)	0.060	0.146
133	11.08	0.63	0.196	(0.179)	0.057	0.139
134	11.17	0.63	0.196	(0.178)	0.057	0.139
135	11.25	0.63	0.196	(0.177)	0.057	0.139
136	11.33	0.63	0.196	(0.177)	0.057	0.139
137	11.42	0.63	0.196	(0.176)	0.057	0.139
138	11.50	0.63	0.196	(0.175)	0.057	0.139
139	11.58	0.57	0.175	(0.174)	0.051	0.124
140	11.67	0.57	0.175	(0.173)	0.051	0.124
141	11.75	0.57	0.175	(0.172)	0.051	0.124
142	11.83	0.60	0.186	(0.171)	0.054	0.132
143	11.92	0.60	0.186	(0.171)	0.054	0.132
144	12.00	0.60	0.186	(0.170)	0.054	0.132
145	12.08	0.83	0.258	(0.169)	0.075	0.183
146	12.17	0.83	0.258	(0.168)	0.075	0.183
147	12.25	0.83	0.258	(0.167)	0.075	0.183

148	12.33	0.87	0.268	(0.166)	0.078	0.190
149	12.42	0.87	0.268	(0.165)	0.078	0.190
150	12.50	0.87	0.268	(0.165)	0.078	0.190
151	12.58	0.93	0.289	(0.164)	0.084	0.205
152	12.67	0.93	0.289	(0.163)	0.084	0.205
153	12.75	0.93	0.289	(0.162)	0.084	0.205
154	12.83	0.97	0.299	(0.161)	0.087	0.212
155	12.92	0.97	0.299	(0.161)	0.087	0.212
156	13.00	0.97	0.299	(0.160)	0.087	0.212
157	13.08	1.13	0.351	(0.159)	0.102	0.249
158	13.17	1.13	0.351	(0.158)	0.102	0.249
159	13.25	1.13	0.351	(0.157)	0.102	0.249
160	13.33	1.13	0.351	(0.156)	0.102	0.249
161	13.42	1.13	0.351	(0.156)	0.102	0.249
162	13.50	1.13	0.351	(0.155)	0.102	0.249
163	13.58	0.77	0.237	(0.154)	0.069	0.168
164	13.67	0.77	0.237	(0.153)	0.069	0.168
165	13.75	0.77	0.237	(0.153)	0.069	0.168
166	13.83	0.77	0.237	(0.152)	0.069	0.168
167	13.92	0.77	0.237	(0.151)	0.069	0.168
168	14.00	0.77	0.237	(0.150)	0.069	0.168
169	14.08	0.90	0.279	(0.149)	0.081	0.197
170	14.17	0.90	0.279	(0.149)	0.081	0.197
171	14.25	0.90	0.279	(0.148)	0.081	0.197
172	14.33	0.87	0.268	(0.147)	0.078	0.190
173	14.42	0.87	0.268	(0.146)	0.078	0.190
174	14.50	0.87	0.268	(0.146)	0.078	0.190
175	14.58	0.87	0.268	(0.145)	0.078	0.190
176	14.67	0.87	0.268	(0.144)	0.078	0.190
177	14.75	0.87	0.268	(0.143)	0.078	0.190
178	14.83	0.83	0.258	(0.143)	0.075	0.183
179	14.92	0.83	0.258	(0.142)	0.075	0.183
180	15.00	0.83	0.258	(0.141)	0.075	0.183
181	15.08	0.80	0.248	(0.141)	0.072	0.176
182	15.17	0.80	0.248	(0.140)	0.072	0.176
183	15.25	0.80	0.248	(0.139)	0.072	0.176
184	15.33	0.77	0.237	(0.138)	0.069	0.168
185	15.42	0.77	0.237	(0.138)	0.069	0.168
186	15.50	0.77	0.237	(0.137)	0.069	0.168
187	15.58	0.63	0.196	(0.136)	0.057	0.139
188	15.67	0.63	0.196	(0.136)	0.057	0.139
189	15.75	0.63	0.196	(0.135)	0.057	0.139
190	15.83	0.63	0.196	(0.134)	0.057	0.139
191	15.92	0.63	0.196	(0.133)	0.057	0.139
192	16.00	0.63	0.196	(0.133)	0.057	0.139
193	16.08	0.13	0.041	(0.132)	0.012	0.029
194	16.17	0.13	0.041	(0.131)	0.012	0.029
195	16.25	0.13	0.041	(0.131)	0.012	0.029
196	16.33	0.13	0.041	(0.130)	0.012	0.029
197	16.42	0.13	0.041	(0.129)	0.012	0.029

198	16.50	0.13	0.041	(0.129)	0.012	0.029
199	16.58	0.10	0.031	(0.128)	0.009	0.022
200	16.67	0.10	0.031	(0.127)	0.009	0.022
201	16.75	0.10	0.031	(0.127)	0.009	0.022
202	16.83	0.10	0.031	(0.126)	0.009	0.022
203	16.92	0.10	0.031	(0.126)	0.009	0.022
204	17.00	0.10	0.031	(0.125)	0.009	0.022
205	17.08	0.17	0.052	(0.124)	0.015	0.037
206	17.17	0.17	0.052	(0.124)	0.015	0.037
207	17.25	0.17	0.052	(0.123)	0.015	0.037
208	17.33	0.17	0.052	(0.122)	0.015	0.037
209	17.42	0.17	0.052	(0.122)	0.015	0.037
210	17.50	0.17	0.052	(0.121)	0.015	0.037
211	17.58	0.17	0.052	(0.121)	0.015	0.037
212	17.67	0.17	0.052	(0.120)	0.015	0.037
213	17.75	0.17	0.052	(0.119)	0.015	0.037
214	17.83	0.13	0.041	(0.119)	0.012	0.029
215	17.92	0.13	0.041	(0.118)	0.012	0.029
216	18.00	0.13	0.041	(0.118)	0.012	0.029
217	18.08	0.13	0.041	(0.117)	0.012	0.029
218	18.17	0.13	0.041	(0.116)	0.012	0.029
219	18.25	0.13	0.041	(0.116)	0.012	0.029
220	18.33	0.13	0.041	(0.115)	0.012	0.029
221	18.42	0.13	0.041	(0.115)	0.012	0.029
222	18.50	0.13	0.041	(0.114)	0.012	0.029
223	18.58	0.10	0.031	(0.114)	0.009	0.022
224	18.67	0.10	0.031	(0.113)	0.009	0.022
225	18.75	0.10	0.031	(0.113)	0.009	0.022
226	18.83	0.07	0.021	(0.112)	0.006	0.015
227	18.92	0.07	0.021	(0.112)	0.006	0.015
228	19.00	0.07	0.021	(0.111)	0.006	0.015
229	19.08	0.10	0.031	(0.110)	0.009	0.022
230	19.17	0.10	0.031	(0.110)	0.009	0.022
231	19.25	0.10	0.031	(0.109)	0.009	0.022
232	19.33	0.13	0.041	(0.109)	0.012	0.029
233	19.42	0.13	0.041	(0.108)	0.012	0.029
234	19.50	0.13	0.041	(0.108)	0.012	0.029
235	19.58	0.10	0.031	(0.107)	0.009	0.022
236	19.67	0.10	0.031	(0.107)	0.009	0.022
237	19.75	0.10	0.031	(0.106)	0.009	0.022
238	19.83	0.07	0.021	(0.106)	0.006	0.015
239	19.92	0.07	0.021	(0.105)	0.006	0.015
240	20.00	0.07	0.021	(0.105)	0.006	0.015
241	20.08	0.10	0.031	(0.105)	0.009	0.022
242	20.17	0.10	0.031	(0.104)	0.009	0.022
243	20.25	0.10	0.031	(0.104)	0.009	0.022
244	20.33	0.10	0.031	(0.103)	0.009	0.022
245	20.42	0.10	0.031	(0.103)	0.009	0.022
246	20.50	0.10	0.031	(0.102)	0.009	0.022
247	20.58	0.10	0.031	(0.102)	0.009	0.022

 Peak flow rate of this hydrograph = 0.396(CFS)

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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	0.02	Q				
0+10	0.0003	0.02	Q				
0+15	0.0004	0.02	Q				
0+20	0.0007	0.03	Q				
0+25	0.0009	0.03	Q				
0+30	0.0011	0.03	Q				
0+35	0.0014	0.03	Q				
0+40	0.0016	0.03	Q				
0+45	0.0019	0.03	Q				
0+50	0.0022	0.04	Q				
0+55	0.0025	0.05	Q				
1+ 0	0.0028	0.05	Q				
1+ 5	0.0031	0.04	Q				
1+10	0.0033	0.03	Q				
1+15	0.0035	0.03	Q				
1+20	0.0038	0.03	Q				
1+25	0.0040	0.03	Q				
1+30	0.0043	0.03	Q				
1+35	0.0045	0.03	Q				
1+40	0.0047	0.03	Q				
1+45	0.0050	0.03	Q				
1+50	0.0053	0.04	Q				
1+55	0.0056	0.05	Q				
2+ 0	0.0059	0.05	Q				
2+ 5	0.0063	0.05	QV				
2+10	0.0066	0.05	QV				
2+15	0.0069	0.05	QV				
2+20	0.0072	0.05	QV				
2+25	0.0075	0.05	QV				
2+30	0.0079	0.05	QV				
2+35	0.0082	0.06	QV				
2+40	0.0086	0.06	QV				
2+45	0.0090	0.06	QV				
2+50	0.0094	0.06	QV				
2+55	0.0098	0.06	QV				
3+ 0	0.0102	0.06	QV				
3+ 5	0.0106	0.06	QV				
3+10	0.0110	0.06	QV				

3+15	0.0114	0.06	QV
3+20	0.0118	0.06	QV
3+25	0.0122	0.06	Q V
3+30	0.0126	0.06	Q V
3+35	0.0131	0.06	Q V
3+40	0.0135	0.06	Q V
3+45	0.0139	0.06	Q V
3+50	0.0143	0.07	Q V
3+55	0.0148	0.07	Q V
4+ 0	0.0153	0.07	Q V
4+ 5	0.0158	0.07	Q V
4+10	0.0162	0.07	Q V
4+15	0.0167	0.07	Q V
4+20	0.0173	0.08	Q V
4+25	0.0178	0.08	Q V
4+30	0.0184	0.08	Q V
4+35	0.0189	0.08	Q V
4+40	0.0195	0.08	Q V
4+45	0.0201	0.08	Q V
4+50	0.0207	0.09	Q V
4+55	0.0213	0.09	Q V
5+ 0	0.0220	0.09	Q V
5+ 5	0.0225	0.08	Q V
5+10	0.0230	0.07	Q V
5+15	0.0235	0.07	Q V
5+20	0.0240	0.08	Q V
5+25	0.0246	0.08	Q V
5+30	0.0251	0.08	Q V
5+35	0.0257	0.09	Q V
5+40	0.0264	0.09	Q V
5+45	0.0270	0.09	Q V
5+50	0.0277	0.09	Q V
5+55	0.0283	0.09	Q V
6+ 0	0.0290	0.09	Q V
6+ 5	0.0297	0.10	Q V
6+10	0.0304	0.10	Q V
6+15	0.0311	0.10	Q V
6+20	0.0318	0.10	Q V
6+25	0.0325	0.10	Q V
6+30	0.0333	0.10	Q V
6+35	0.0340	0.11	Q V
6+40	0.0349	0.12	Q V
6+45	0.0357	0.12	Q V
6+50	0.0365	0.12	Q V
6+55	0.0373	0.12	Q V
7+ 0	0.0381	0.12	Q V
7+ 5	0.0389	0.12	Q V
7+10	0.0397	0.12	Q V
7+15	0.0405	0.12	Q V
7+20	0.0413	0.12	Q V

7+25	0.0422	0.13	Q	V				
7+30	0.0431	0.13	Q	V				
7+35	0.0440	0.14	Q	V				
7+40	0.0450	0.14	Q	V				
7+45	0.0460	0.14	Q	V				
7+50	0.0470	0.15	Q	V				
7+55	0.0480	0.15	Q	V				
8+ 0	0.0491	0.15	Q	V				
8+ 5	0.0502	0.17	Q	V				
8+10	0.0514	0.17	Q	V				
8+15	0.0526	0.17	Q	V				
8+20	0.0538	0.17	Q	V				
8+25	0.0550	0.17	Q	V				
8+30	0.0562	0.17	Q	V				
8+35	0.0575	0.18	Q	V				
8+40	0.0588	0.19	Q	V				
8+45	0.0601	0.19	Q	V				
8+50	0.0614	0.19	Q	V				
8+55	0.0628	0.20	Q	V				
9+ 0	0.0641	0.20	Q	V				
9+ 5	0.0656	0.21	Q	V				
9+10	0.0672	0.22	Q	V				
9+15	0.0687	0.22	Q	V				
9+20	0.0703	0.23	Q	V				
9+25	0.0719	0.23	Q	V				
9+30	0.0735	0.23	Q	V				
9+35	0.0751	0.24	Q	V				
9+40	0.0768	0.24	Q	V				
9+45	0.0785	0.24	Q	V				
9+50	0.0803	0.25	Q	V				
9+55	0.0820	0.26	Q	V				
10+ 0	0.0838	0.26	Q	V				
10+ 5	0.0851	0.20	Q	V				
10+10	0.0863	0.17	Q	V				
10+15	0.0875	0.17	Q	V				
10+20	0.0888	0.17	Q	V				
10+25	0.0900	0.17	Q	V				
10+30	0.0912	0.17	Q	V				
10+35	0.0927	0.22	Q	V				
10+40	0.0943	0.23	Q	V				
10+45	0.0959	0.23	Q	V				
10+50	0.0975	0.23	Q	V				
10+55	0.0991	0.23	Q	V				
11+ 0	0.1007	0.23	Q	V				
11+ 5	0.1022	0.22	Q	V				
11+10	0.1038	0.22	Q	V				
11+15	0.1053	0.22	Q	V				
11+20	0.1068	0.22	Q	V				
11+25	0.1083	0.22	Q	V				
11+30	0.1099	0.22	Q	V				

11+35	0.1113	0.20	Q	V			
11+40	0.1126	0.20	Q	V			
11+45	0.1140	0.20	Q	V			
11+50	0.1154	0.21	Q	V			
11+55	0.1169	0.21	Q	V			
12+ 0	0.1183	0.21	Q	V			
12+ 5	0.1202	0.27	Q	V			
12+10	0.1222	0.29	Q	V			
12+15	0.1242	0.29	Q	V			
12+20	0.1262	0.30	Q	V			
12+25	0.1283	0.30	Q	V			
12+30	0.1304	0.30	Q	V			
12+35	0.1326	0.32	Q	V			
12+40	0.1349	0.33	Q	V			
12+45	0.1371	0.33	Q	V			
12+50	0.1394	0.33	Q	V			
12+55	0.1417	0.34	Q	V			
13+ 0	0.1441	0.34	Q	V			
13+ 5	0.1467	0.38	Q	V			
13+10	0.1494	0.40	Q	V			
13+15	0.1521	0.40	Q	V			
13+20	0.1549	0.40	Q	V			
13+25	0.1576	0.40	Q	V			
13+30	0.1603	0.40	Q	V			
13+35	0.1624	0.30	Q	V			
13+40	0.1643	0.27	Q	V			
13+45	0.1661	0.27	Q	V			
13+50	0.1680	0.27	Q	V			
13+55	0.1698	0.27	Q	V			
14+ 0	0.1716	0.27	Q	V			
14+ 5	0.1737	0.30	Q	V			
14+10	0.1759	0.31	Q	V			
14+15	0.1781	0.31	Q	V			
14+20	0.1802	0.31	Q	V			
14+25	0.1823	0.30	Q	V			
14+30	0.1843	0.30	Q	V			
14+35	0.1864	0.30	Q	V			
14+40	0.1885	0.30	Q	V			
14+45	0.1906	0.30	Q	V			
14+50	0.1926	0.29	Q	V			
14+55	0.1946	0.29	Q	V			
15+ 0	0.1966	0.29	Q	V			
15+ 5	0.1986	0.28	Q	V			
15+10	0.2005	0.28	Q	V			
15+15	0.2024	0.28	Q	V			
15+20	0.2043	0.27	Q	V			
15+25	0.2062	0.27	Q	V			
15+30	0.2080	0.27	Q	V			
15+35	0.2096	0.23	Q	V			
15+40	0.2111	0.22	Q	V			

15+45	0.2127	0.22	Q				V
15+50	0.2142	0.22	Q				V
15+55	0.2157	0.22	Q				V
16+ 0	0.2172	0.22	Q				V
16+ 5	0.2179	0.10	Q				V
16+10	0.2182	0.05	Q				V
16+15	0.2185	0.05	Q				V
16+20	0.2189	0.05	Q				V
16+25	0.2192	0.05	Q				V
16+30	0.2195	0.05	Q				V
16+35	0.2198	0.04	Q				V
16+40	0.2200	0.03	Q				V
16+45	0.2202	0.03	Q				V
16+50	0.2205	0.03	Q				V
16+55	0.2207	0.03	Q				V
17+ 0	0.2210	0.03	Q				V
17+ 5	0.2213	0.05	Q				V
17+10	0.2217	0.06	Q				V
17+15	0.2221	0.06	Q				V
17+20	0.2225	0.06	Q				V
17+25	0.2229	0.06	Q				V
17+30	0.2233	0.06	Q				V
17+35	0.2237	0.06	Q				V
17+40	0.2241	0.06	Q				V
17+45	0.2245	0.06	Q				V
17+50	0.2249	0.05	Q				V
17+55	0.2252	0.05	Q				V
18+ 0	0.2255	0.05	Q				V
18+ 5	0.2258	0.05	Q				V
18+10	0.2262	0.05	Q				V
18+15	0.2265	0.05	Q				V
18+20	0.2268	0.05	Q				V
18+25	0.2271	0.05	Q				V
18+30	0.2274	0.05	Q				V
18+35	0.2277	0.04	Q				V
18+40	0.2279	0.03	Q				V
18+45	0.2282	0.03	Q				V
18+50	0.2284	0.03	Q				V
18+55	0.2285	0.02	Q				V
19+ 0	0.2287	0.02	Q				V
19+ 5	0.2289	0.03	Q				V
19+10	0.2292	0.03	Q				V
19+15	0.2294	0.03	Q				V
19+20	0.2297	0.04	Q				V
19+25	0.2300	0.05	Q				V
19+30	0.2303	0.05	Q				V
19+35	0.2306	0.04	Q				V
19+40	0.2308	0.03	Q				V
19+45	0.2311	0.03	Q				V
19+50	0.2313	0.03	Q				V

19+55	0.2314	0.02	Q				V
20+ 0	0.2316	0.02	Q				V
20+ 5	0.2318	0.03	Q				V
20+10	0.2320	0.03	Q				V
20+15	0.2323	0.03	Q				V
20+20	0.2325	0.03	Q				V
20+25	0.2328	0.03	Q				V
20+30	0.2330	0.03	Q				V
20+35	0.2332	0.03	Q				V
20+40	0.2335	0.03	Q				V
20+45	0.2337	0.03	Q				V
20+50	0.2339	0.03	Q				V
20+55	0.2341	0.02	Q				V
21+ 0	0.2342	0.02	Q				V
21+ 5	0.2344	0.03	Q				V
21+10	0.2347	0.03	Q				V
21+15	0.2349	0.03	Q				V
21+20	0.2351	0.03	Q				V
21+25	0.2353	0.02	Q				V
21+30	0.2354	0.02	Q				V
21+35	0.2357	0.03	Q				V
21+40	0.2359	0.03	Q				V
21+45	0.2361	0.03	Q				V
21+50	0.2363	0.03	Q				V
21+55	0.2365	0.02	Q				V
22+ 0	0.2366	0.02	Q				V
22+ 5	0.2369	0.03	Q				V
22+10	0.2371	0.03	Q				V
22+15	0.2373	0.03	Q				V
22+20	0.2375	0.03	Q				V
22+25	0.2377	0.02	Q				V
22+30	0.2378	0.02	Q				V
22+35	0.2380	0.02	Q				V
22+40	0.2382	0.02	Q				V
22+45	0.2383	0.02	Q				V
22+50	0.2385	0.02	Q				V
22+55	0.2386	0.02	Q				V
23+ 0	0.2388	0.02	Q				V
23+ 5	0.2390	0.02	Q				V
23+10	0.2391	0.02	Q				V
23+15	0.2393	0.02	Q				V
23+20	0.2394	0.02	Q				V
23+25	0.2396	0.02	Q				V
23+30	0.2398	0.02	Q				V
23+35	0.2399	0.02	Q				V
23+40	0.2401	0.02	Q				V
23+45	0.2403	0.02	Q				V
23+50	0.2404	0.02	Q				V
23+55	0.2406	0.02	Q				V
24+ 0	0.2407	0.02	Q				V

24+ 5

0.2408

0.01 Q

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DMA 2 Proposed 10-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-1HR UH

A11626 DMA 2 Q10 UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	0.48	0.76

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.25	1.98

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.797(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 0.797(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.761	0.117	1.000	0.117
Sum (F) =						0.117

Area averaged mean soil loss (F) (In/Hr) = 0.117
 Minimum soil loss rate ((In/Hr)) = 0.059
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	4.40	0.421	0.117	(0.122)	0.303
2	0.17	4.50	0.430	0.117	(0.125)	0.313
3	0.25	5.40	0.516	0.117	(0.150)	0.399
4	0.33	5.40	0.516	0.117	(0.150)	0.399
5	0.42	5.70	0.545	0.117	(0.159)	0.428
6	0.50	6.40	0.612	0.117	(0.178)	0.494
7	0.58	7.90	0.755	0.117	(0.220)	0.638
8	0.67	9.10	0.870	0.117	(0.253)	0.753
9	0.75	12.80	1.224	0.117	(0.356)	1.106
10	0.83	25.60	2.448	0.117	(0.712)	2.330
11	0.92	7.90	0.755	0.117	(0.220)	0.638
12	1.00	4.90	0.469	0.117	(0.136)	0.351

(Loss Rate Not Used)

Sum = 100.0 Sum = 8.2

Flood volume = Effective rainfall 0.68(In)
times area 1.6(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.12(In)
Total soil loss = 0.015(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 3896.1 Cubic Feet
Total soil loss = 673.7 Cubic Feet

Peak flow rate of this hydrograph = 3.171(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0024	0.35	Q				
0+10	0.0058	0.49	QV				
0+15	0.0099	0.60	Q V				
0+20	0.0143	0.64	Q V				
0+25	0.0189	0.67	Q V				
0+30	0.0241	0.76	Q V				
0+35	0.0307	0.95	Q V				
0+40	0.0386	1.15	Q V				
0+45	0.0497	1.61	Q V				
0+50	0.0715	3.17	Q V				
0+55	0.0836	1.76	Q V				
1+ 0	0.0884	0.69	Q V				

1+ 5

0.0894

0.16 Q

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Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR 3HR UH

A11626 DMA 2 Q10 UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	0.80	1.26

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.95	3.08

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.273(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.273(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.761	0.117	1.000	0.117
Sum (F) =						0.117

Area averaged mean soil loss (F) (In/Hr) = 0.117
 Minimum soil loss rate ((In/Hr)) = 0.059
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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

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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	2.5	5.0	7.5	10.0
0+ 5	0.0011		0.16	Q				
0+10	0.0027		0.22	Q				
0+15	0.0040		0.20	QV				
0+20	0.0057		0.24	QV				
0+25	0.0075		0.26	QV				
0+30	0.0095		0.30	QV				
0+35	0.0114		0.27	Q V				
0+40	0.0134		0.30	Q V				
0+45	0.0156		0.31	Q V				
0+50	0.0175		0.27	Q V				
0+55	0.0193		0.27	Q V				
1+ 0	0.0214		0.30	Q V				
1+ 5	0.0239		0.36	Q V				
1+10	0.0265		0.38	Q V				
1+15	0.0291		0.38	Q V				
1+20	0.0315		0.35	Q V				
1+25	0.0344		0.42	Q V				
1+30	0.0376		0.46	Q V				
1+35	0.0406		0.43	Q V				
1+40	0.0437		0.45	Q V				
1+45	0.0477		0.58	Q V				
1+50	0.0517		0.58	Q V				
1+55	0.0554		0.53	Q V				
2+ 0	0.0590		0.54	Q V				
2+ 5	0.0629		0.56	Q V				
2+10	0.0681		0.76	Q V				
2+15	0.0749		0.98	Q V				
2+20	0.0801		0.77	Q V				
2+25	0.0887		1.25	Q V				
2+30	0.0994		1.56	Q V				
2+35	0.1115		1.75	Q V				
2+40	0.1211		1.40	Q V				
2+45	0.1252		0.60	Q V				
2+50	0.1275		0.32	Q V				
2+55	0.1296		0.31	Q V				
3+ 0	0.1307		0.16	Q V				
3+ 5	0.1309		0.03	Q V				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q10UH610.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-6HR UH

A11626 DMA 2 Q10 UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.11	1.75

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	2.70	4.27

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.764(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.764(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.761	0.117	1.000	0.117
Sum (F) =						0.117

Area averaged mean soil loss (F) (In/Hr) = 0.117
 Minimum soil loss rate ((In/Hr)) = 0.059
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.106	(0.117)	0.031	0.075
2	0.17	0.60	0.127	(0.117)	0.037	0.090
3	0.25	0.60	0.127	(0.117)	0.037	0.090
4	0.33	0.60	0.127	(0.117)	0.037	0.090
5	0.42	0.60	0.127	(0.117)	0.037	0.090
6	0.50	0.70	0.148	(0.117)	0.043	0.105
7	0.58	0.70	0.148	(0.117)	0.043	0.105
8	0.67	0.70	0.148	(0.117)	0.043	0.105
9	0.75	0.70	0.148	(0.117)	0.043	0.105
10	0.83	0.70	0.148	(0.117)	0.043	0.105
11	0.92	0.70	0.148	(0.117)	0.043	0.105
12	1.00	0.80	0.169	(0.117)	0.049	0.120
13	1.08	0.80	0.169	(0.117)	0.049	0.120
14	1.17	0.80	0.169	(0.117)	0.049	0.120
15	1.25	0.80	0.169	(0.117)	0.049	0.120
16	1.33	0.80	0.169	(0.117)	0.049	0.120
17	1.42	0.80	0.169	(0.117)	0.049	0.120
18	1.50	0.80	0.169	(0.117)	0.049	0.120
19	1.58	0.80	0.169	(0.117)	0.049	0.120
20	1.67	0.80	0.169	(0.117)	0.049	0.120
21	1.75	0.80	0.169	(0.117)	0.049	0.120
22	1.83	0.80	0.169	(0.117)	0.049	0.120
23	1.92	0.80	0.169	(0.117)	0.049	0.120
24	2.00	0.90	0.191	(0.117)	0.055	0.135
25	2.08	0.80	0.169	(0.117)	0.049	0.120
26	2.17	0.90	0.191	(0.117)	0.055	0.135
27	2.25	0.90	0.191	(0.117)	0.055	0.135
28	2.33	0.90	0.191	(0.117)	0.055	0.135
29	2.42	0.90	0.191	(0.117)	0.055	0.135
30	2.50	0.90	0.191	(0.117)	0.055	0.135
31	2.58	0.90	0.191	(0.117)	0.055	0.135
32	2.67	0.90	0.191	(0.117)	0.055	0.135
33	2.75	1.00	0.212	(0.117)	0.062	0.150
34	2.83	1.00	0.212	(0.117)	0.062	0.150
35	2.92	1.00	0.212	(0.117)	0.062	0.150
36	3.00	1.00	0.212	(0.117)	0.062	0.150
37	3.08	1.00	0.212	(0.117)	0.062	0.150
38	3.17	1.10	0.233	(0.117)	0.068	0.165
39	3.25	1.10	0.233	(0.117)	0.068	0.165
40	3.33	1.10	0.233	(0.117)	0.068	0.165
41	3.42	1.20	0.254	(0.117)	0.074	0.180
42	3.50	1.30	0.275	(0.117)	0.080	0.195
43	3.58	1.40	0.296	(0.117)	0.086	0.210
44	3.67	1.40	0.296	(0.117)	0.086	0.210
45	3.75	1.50	0.318	(0.117)	0.092	0.225
46	3.83	1.50	0.318	(0.117)	0.092	0.225
47	3.92	1.60	0.339	(0.117)	0.099	0.240

0+25	0.0045	0.14	QV				
0+30	0.0056	0.16	QV				
0+35	0.0068	0.17	QV				
0+40	0.0079	0.17	QV				
0+45	0.0091	0.17	Q V				
0+50	0.0102	0.17	Q V				
0+55	0.0114	0.17	Q V				
1+ 0	0.0126	0.18	Q V				
1+ 5	0.0140	0.19	Q V				
1+10	0.0153	0.19	Q V				
1+15	0.0166	0.19	Q V				
1+20	0.0179	0.19	Q V				
1+25	0.0192	0.19	Q V				
1+30	0.0205	0.19	Q V				
1+35	0.0219	0.19	Q V				
1+40	0.0232	0.19	Q V				
1+45	0.0245	0.19	Q V				
1+50	0.0258	0.19	Q V				
1+55	0.0271	0.19	Q V				
2+ 0	0.0286	0.21	Q V				
2+ 5	0.0299	0.20	Q V				
2+10	0.0314	0.21	Q V				
2+15	0.0329	0.22	Q V				
2+20	0.0343	0.22	Q V				
2+25	0.0358	0.22	Q V				
2+30	0.0373	0.22	Q V				
2+35	0.0388	0.22	Q V				
2+40	0.0403	0.22	Q V				
2+45	0.0419	0.23	Q V				
2+50	0.0435	0.24	Q V				
2+55	0.0452	0.24	Q V				
3+ 0	0.0468	0.24	Q V				
3+ 5	0.0485	0.24	Q V				
3+10	0.0502	0.26	Q V				
3+15	0.0520	0.26	Q V				
3+20	0.0538	0.26	Q V				
3+25	0.0558	0.28	Q V				
3+30	0.0579	0.30	Q V				
3+35	0.0601	0.33	Q V				
3+40	0.0624	0.33	Q V				
3+45	0.0649	0.35	Q V				
3+50	0.0673	0.36	Q V				
3+55	0.0699	0.38	Q V				
4+ 0	0.0726	0.38	Q V				
4+ 5	0.0753	0.40	Q V				
4+10	0.0782	0.42	Q V				
4+15	0.0813	0.45	Q V				
4+20	0.0846	0.48	Q V				
4+25	0.0881	0.51	Q V				
4+30	0.0917	0.52	Q V				

4+35	0.0955	0.55	Q		V		
4+40	0.0995	0.58	Q		V		
4+45	0.1037	0.61	Q		V		
4+50	0.1080	0.62	Q		V		
4+55	0.1124	0.65	Q		V		
5+ 0	0.1171	0.68	Q		V		
5+ 5	0.1227	0.81	Q		V		
5+10	0.1294	0.98	Q		V		
5+15	0.1370	1.10	Q		V		
5+20	0.1453	1.20	Q		V		
5+25	0.1546	1.35	Q		V		
5+30	0.1657	1.62	Q		V		
5+35	0.1713	0.80	Q		V		
5+40	0.1732	0.28	Q		V		
5+45	0.1743	0.16	Q		V		
5+50	0.1752	0.13	Q		V		
5+55	0.1758	0.09	Q		V		
6+ 0	0.1761	0.05	Q		V		
6+ 5	0.1762	0.01	Q		V		

Unit Hydrograph Analysis

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RCFC & WCD Manual date - April 1978

Program License Serial Number 6509

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English Units used in output format

A21626 PROPOSED 10YR-24HR UH

A11626 DMA 2 Q10 UH

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Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
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Length along longest watercourse measured to centroid = 234.53(Ft.)
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Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	1.90	3.00

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	4.80	7.58

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 3.093(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 3.093(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
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69.0	69.0	0.373	0.761	0.117	1.000	0.117
Sum (F) =						0.117

Area averaged mean soil loss (F) (In/Hr) = 0.117
 Minimum soil loss rate ((In/Hr)) = 0.059
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.025	(0.208)	0.007	0.018
2	0.17	0.07	0.025	(0.207)	0.007	0.018
3	0.25	0.07	0.025	(0.207)	0.007	0.018
4	0.33	0.10	0.037	(0.206)	0.011	0.026
5	0.42	0.10	0.037	(0.205)	0.011	0.026
6	0.50	0.10	0.037	(0.204)	0.011	0.026
7	0.58	0.10	0.037	(0.203)	0.011	0.026
8	0.67	0.10	0.037	(0.203)	0.011	0.026
9	0.75	0.10	0.037	(0.202)	0.011	0.026
10	0.83	0.13	0.049	(0.201)	0.014	0.035
11	0.92	0.13	0.049	(0.200)	0.014	0.035
12	1.00	0.13	0.049	(0.199)	0.014	0.035
13	1.08	0.10	0.037	(0.199)	0.011	0.026
14	1.17	0.10	0.037	(0.198)	0.011	0.026
15	1.25	0.10	0.037	(0.197)	0.011	0.026
16	1.33	0.10	0.037	(0.196)	0.011	0.026
17	1.42	0.10	0.037	(0.196)	0.011	0.026
18	1.50	0.10	0.037	(0.195)	0.011	0.026
19	1.58	0.10	0.037	(0.194)	0.011	0.026
20	1.67	0.10	0.037	(0.193)	0.011	0.026
21	1.75	0.10	0.037	(0.192)	0.011	0.026
22	1.83	0.13	0.049	(0.192)	0.014	0.035
23	1.92	0.13	0.049	(0.191)	0.014	0.035
24	2.00	0.13	0.049	(0.190)	0.014	0.035
25	2.08	0.13	0.049	(0.189)	0.014	0.035
26	2.17	0.13	0.049	(0.189)	0.014	0.035
27	2.25	0.13	0.049	(0.188)	0.014	0.035
28	2.33	0.13	0.049	(0.187)	0.014	0.035
29	2.42	0.13	0.049	(0.186)	0.014	0.035
30	2.50	0.13	0.049	(0.186)	0.014	0.035
31	2.58	0.17	0.062	(0.185)	0.018	0.044
32	2.67	0.17	0.062	(0.184)	0.018	0.044
33	2.75	0.17	0.062	(0.183)	0.018	0.044
34	2.83	0.17	0.062	(0.182)	0.018	0.044
35	2.92	0.17	0.062	(0.182)	0.018	0.044
36	3.00	0.17	0.062	(0.181)	0.018	0.044
37	3.08	0.17	0.062	(0.180)	0.018	0.044
38	3.17	0.17	0.062	(0.179)	0.018	0.044
39	3.25	0.17	0.062	(0.179)	0.018	0.044
40	3.33	0.17	0.062	(0.178)	0.018	0.044
41	3.42	0.17	0.062	(0.177)	0.018	0.044
42	3.50	0.17	0.062	(0.177)	0.018	0.044
43	3.58	0.17	0.062	(0.176)	0.018	0.044
44	3.67	0.17	0.062	(0.175)	0.018	0.044
45	3.75	0.17	0.062	(0.174)	0.018	0.044
46	3.83	0.20	0.074	(0.174)	0.022	0.053
47	3.92	0.20	0.074	(0.173)	0.022	0.053

48	4.00	0.20	0.074	(0.172)	0.022	0.053
49	4.08	0.20	0.074	(0.171)	0.022	0.053
50	4.17	0.20	0.074	(0.171)	0.022	0.053
51	4.25	0.20	0.074	(0.170)	0.022	0.053
52	4.33	0.23	0.087	(0.169)	0.025	0.061
53	4.42	0.23	0.087	(0.168)	0.025	0.061
54	4.50	0.23	0.087	(0.168)	0.025	0.061
55	4.58	0.23	0.087	(0.167)	0.025	0.061
56	4.67	0.23	0.087	(0.166)	0.025	0.061
57	4.75	0.23	0.087	(0.166)	0.025	0.061
58	4.83	0.27	0.099	(0.165)	0.029	0.070
59	4.92	0.27	0.099	(0.164)	0.029	0.070
60	5.00	0.27	0.099	(0.163)	0.029	0.070
61	5.08	0.20	0.074	(0.163)	0.022	0.053
62	5.17	0.20	0.074	(0.162)	0.022	0.053
63	5.25	0.20	0.074	(0.161)	0.022	0.053
64	5.33	0.23	0.087	(0.161)	0.025	0.061
65	5.42	0.23	0.087	(0.160)	0.025	0.061
66	5.50	0.23	0.087	(0.159)	0.025	0.061
67	5.58	0.27	0.099	(0.159)	0.029	0.070
68	5.67	0.27	0.099	(0.158)	0.029	0.070
69	5.75	0.27	0.099	(0.157)	0.029	0.070
70	5.83	0.27	0.099	(0.156)	0.029	0.070
71	5.92	0.27	0.099	(0.156)	0.029	0.070
72	6.00	0.27	0.099	(0.155)	0.029	0.070
73	6.08	0.30	0.111	(0.154)	0.032	0.079
74	6.17	0.30	0.111	(0.154)	0.032	0.079
75	6.25	0.30	0.111	(0.153)	0.032	0.079
76	6.33	0.30	0.111	(0.152)	0.032	0.079
77	6.42	0.30	0.111	(0.152)	0.032	0.079
78	6.50	0.30	0.111	(0.151)	0.032	0.079
79	6.58	0.33	0.124	(0.150)	0.036	0.088
80	6.67	0.33	0.124	(0.150)	0.036	0.088
81	6.75	0.33	0.124	(0.149)	0.036	0.088
82	6.83	0.33	0.124	(0.148)	0.036	0.088
83	6.92	0.33	0.124	(0.148)	0.036	0.088
84	7.00	0.33	0.124	(0.147)	0.036	0.088
85	7.08	0.33	0.124	(0.146)	0.036	0.088
86	7.17	0.33	0.124	(0.146)	0.036	0.088
87	7.25	0.33	0.124	(0.145)	0.036	0.088
88	7.33	0.37	0.136	(0.144)	0.040	0.096
89	7.42	0.37	0.136	(0.144)	0.040	0.096
90	7.50	0.37	0.136	(0.143)	0.040	0.096
91	7.58	0.40	0.148	(0.142)	0.043	0.105
92	7.67	0.40	0.148	(0.142)	0.043	0.105
93	7.75	0.40	0.148	(0.141)	0.043	0.105
94	7.83	0.43	0.161	(0.140)	0.047	0.114
95	7.92	0.43	0.161	(0.140)	0.047	0.114
96	8.00	0.43	0.161	(0.139)	0.047	0.114
97	8.08	0.50	0.186	(0.138)	0.054	0.132

98	8.17	0.50	0.186	(0.138)	0.054	0.132
99	8.25	0.50	0.186	(0.137)	0.054	0.132
100	8.33	0.50	0.186	(0.136)	0.054	0.132
101	8.42	0.50	0.186	(0.136)	0.054	0.132
102	8.50	0.50	0.186	(0.135)	0.054	0.132
103	8.58	0.53	0.198	(0.135)	0.058	0.140
104	8.67	0.53	0.198	(0.134)	0.058	0.140
105	8.75	0.53	0.198	(0.133)	0.058	0.140
106	8.83	0.57	0.210	(0.133)	0.061	0.149
107	8.92	0.57	0.210	(0.132)	0.061	0.149
108	9.00	0.57	0.210	(0.131)	0.061	0.149
109	9.08	0.63	0.235	(0.131)	0.068	0.167
110	9.17	0.63	0.235	(0.130)	0.068	0.167
111	9.25	0.63	0.235	(0.130)	0.068	0.167
112	9.33	0.67	0.247	(0.129)	0.072	0.175
113	9.42	0.67	0.247	(0.128)	0.072	0.175
114	9.50	0.67	0.247	(0.128)	0.072	0.175
115	9.58	0.70	0.260	(0.127)	0.076	0.184
116	9.67	0.70	0.260	(0.126)	0.076	0.184
117	9.75	0.70	0.260	(0.126)	0.076	0.184
118	9.83	0.73	0.272	(0.125)	0.079	0.193
119	9.92	0.73	0.272	(0.125)	0.079	0.193
120	10.00	0.73	0.272	(0.124)	0.079	0.193
121	10.08	0.50	0.186	(0.123)	0.054	0.132
122	10.17	0.50	0.186	(0.123)	0.054	0.132
123	10.25	0.50	0.186	(0.122)	0.054	0.132
124	10.33	0.50	0.186	(0.122)	0.054	0.132
125	10.42	0.50	0.186	(0.121)	0.054	0.132
126	10.50	0.50	0.186	(0.120)	0.054	0.132
127	10.58	0.67	0.247	(0.120)	0.072	0.175
128	10.67	0.67	0.247	(0.119)	0.072	0.175
129	10.75	0.67	0.247	(0.119)	0.072	0.175
130	10.83	0.67	0.247	(0.118)	0.072	0.175
131	10.92	0.67	0.247	(0.118)	0.072	0.175
132	11.00	0.67	0.247	(0.117)	0.072	0.175
133	11.08	0.63	0.235	(0.116)	0.068	0.167
134	11.17	0.63	0.235	(0.116)	0.068	0.167
135	11.25	0.63	0.235	(0.115)	0.068	0.167
136	11.33	0.63	0.235	(0.115)	0.068	0.167
137	11.42	0.63	0.235	(0.114)	0.068	0.167
138	11.50	0.63	0.235	(0.114)	0.068	0.167
139	11.58	0.57	0.210	(0.113)	0.061	0.149
140	11.67	0.57	0.210	(0.112)	0.061	0.149
141	11.75	0.57	0.210	(0.112)	0.061	0.149
142	11.83	0.60	0.223	(0.111)	0.065	0.158
143	11.92	0.60	0.223	(0.111)	0.065	0.158
144	12.00	0.60	0.223	(0.110)	0.065	0.158
145	12.08	0.83	0.309	(0.110)	0.090	0.219
146	12.17	0.83	0.309	(0.109)	0.090	0.219
147	12.25	0.83	0.309	(0.109)	0.090	0.219

148	12.33	0.87	0.322	(0.108)	0.094	0.228
149	12.42	0.87	0.322	(0.107)	0.094	0.228
150	12.50	0.87	0.322	(0.107)	0.094	0.228
151	12.58	0.93	0.346	(0.106)	0.101	0.246
152	12.67	0.93	0.346	(0.106)	0.101	0.246
153	12.75	0.93	0.346	(0.105)	0.101	0.246
154	12.83	0.97	0.359	(0.105)	0.104	0.254
155	12.92	0.97	0.359	0.104	(0.104)	0.255
156	13.00	0.97	0.359	0.104	(0.104)	0.255
157	13.08	1.13	0.421	0.103	(0.122)	0.317
158	13.17	1.13	0.421	0.103	(0.122)	0.318
159	13.25	1.13	0.421	0.102	(0.122)	0.318
160	13.33	1.13	0.421	0.102	(0.122)	0.319
161	13.42	1.13	0.421	0.101	(0.122)	0.320
162	13.50	1.13	0.421	0.101	(0.122)	0.320
163	13.58	0.77	0.285	(0.100)	0.083	0.202
164	13.67	0.77	0.285	(0.100)	0.083	0.202
165	13.75	0.77	0.285	(0.099)	0.083	0.202
166	13.83	0.77	0.285	(0.099)	0.083	0.202
167	13.92	0.77	0.285	(0.098)	0.083	0.202
168	14.00	0.77	0.285	(0.098)	0.083	0.202
169	14.08	0.90	0.334	0.097	(0.097)	0.237
170	14.17	0.90	0.334	0.097	(0.097)	0.237
171	14.25	0.90	0.334	0.096	(0.097)	0.238
172	14.33	0.87	0.322	(0.096)	0.094	0.228
173	14.42	0.87	0.322	(0.095)	0.094	0.228
174	14.50	0.87	0.322	(0.095)	0.094	0.228
175	14.58	0.87	0.322	(0.094)	0.094	0.228
176	14.67	0.87	0.322	(0.094)	0.094	0.228
177	14.75	0.87	0.322	0.093	(0.094)	0.229
178	14.83	0.83	0.309	(0.093)	0.090	0.219
179	14.92	0.83	0.309	(0.092)	0.090	0.219
180	15.00	0.83	0.309	(0.092)	0.090	0.219
181	15.08	0.80	0.297	(0.091)	0.086	0.211
182	15.17	0.80	0.297	(0.091)	0.086	0.211
183	15.25	0.80	0.297	(0.090)	0.086	0.211
184	15.33	0.77	0.285	(0.090)	0.083	0.202
185	15.42	0.77	0.285	(0.089)	0.083	0.202
186	15.50	0.77	0.285	(0.089)	0.083	0.202
187	15.58	0.63	0.235	(0.089)	0.068	0.167
188	15.67	0.63	0.235	(0.088)	0.068	0.167
189	15.75	0.63	0.235	(0.088)	0.068	0.167
190	15.83	0.63	0.235	(0.087)	0.068	0.167
191	15.92	0.63	0.235	(0.087)	0.068	0.167
192	16.00	0.63	0.235	(0.086)	0.068	0.167
193	16.08	0.13	0.049	(0.086)	0.014	0.035
194	16.17	0.13	0.049	(0.085)	0.014	0.035
195	16.25	0.13	0.049	(0.085)	0.014	0.035
196	16.33	0.13	0.049	(0.085)	0.014	0.035
197	16.42	0.13	0.049	(0.084)	0.014	0.035

198	16.50	0.13	0.049	(0.084)	0.014	0.035
199	16.58	0.10	0.037	(0.083)	0.011	0.026
200	16.67	0.10	0.037	(0.083)	0.011	0.026
201	16.75	0.10	0.037	(0.082)	0.011	0.026
202	16.83	0.10	0.037	(0.082)	0.011	0.026
203	16.92	0.10	0.037	(0.082)	0.011	0.026
204	17.00	0.10	0.037	(0.081)	0.011	0.026
205	17.08	0.17	0.062	(0.081)	0.018	0.044
206	17.17	0.17	0.062	(0.080)	0.018	0.044
207	17.25	0.17	0.062	(0.080)	0.018	0.044
208	17.33	0.17	0.062	(0.080)	0.018	0.044
209	17.42	0.17	0.062	(0.079)	0.018	0.044
210	17.50	0.17	0.062	(0.079)	0.018	0.044
211	17.58	0.17	0.062	(0.078)	0.018	0.044
212	17.67	0.17	0.062	(0.078)	0.018	0.044
213	17.75	0.17	0.062	(0.078)	0.018	0.044
214	17.83	0.13	0.049	(0.077)	0.014	0.035
215	17.92	0.13	0.049	(0.077)	0.014	0.035
216	18.00	0.13	0.049	(0.076)	0.014	0.035
217	18.08	0.13	0.049	(0.076)	0.014	0.035
218	18.17	0.13	0.049	(0.076)	0.014	0.035
219	18.25	0.13	0.049	(0.075)	0.014	0.035
220	18.33	0.13	0.049	(0.075)	0.014	0.035
221	18.42	0.13	0.049	(0.075)	0.014	0.035
222	18.50	0.13	0.049	(0.074)	0.014	0.035
223	18.58	0.10	0.037	(0.074)	0.011	0.026
224	18.67	0.10	0.037	(0.073)	0.011	0.026
225	18.75	0.10	0.037	(0.073)	0.011	0.026
226	18.83	0.07	0.025	(0.073)	0.007	0.018
227	18.92	0.07	0.025	(0.072)	0.007	0.018
228	19.00	0.07	0.025	(0.072)	0.007	0.018
229	19.08	0.10	0.037	(0.072)	0.011	0.026
230	19.17	0.10	0.037	(0.071)	0.011	0.026
231	19.25	0.10	0.037	(0.071)	0.011	0.026
232	19.33	0.13	0.049	(0.071)	0.014	0.035
233	19.42	0.13	0.049	(0.070)	0.014	0.035
234	19.50	0.13	0.049	(0.070)	0.014	0.035
235	19.58	0.10	0.037	(0.070)	0.011	0.026
236	19.67	0.10	0.037	(0.069)	0.011	0.026
237	19.75	0.10	0.037	(0.069)	0.011	0.026
238	19.83	0.07	0.025	(0.069)	0.007	0.018
239	19.92	0.07	0.025	(0.069)	0.007	0.018
240	20.00	0.07	0.025	(0.068)	0.007	0.018
241	20.08	0.10	0.037	(0.068)	0.011	0.026
242	20.17	0.10	0.037	(0.068)	0.011	0.026
243	20.25	0.10	0.037	(0.067)	0.011	0.026
244	20.33	0.10	0.037	(0.067)	0.011	0.026
245	20.42	0.10	0.037	(0.067)	0.011	0.026
246	20.50	0.10	0.037	(0.066)	0.011	0.026
247	20.58	0.10	0.037	(0.066)	0.011	0.026

248	20.67	0.10	0.037	(0.066)	0.011	0.026
249	20.75	0.10	0.037	(0.066)	0.011	0.026
250	20.83	0.07	0.025	(0.065)	0.007	0.018
251	20.92	0.07	0.025	(0.065)	0.007	0.018
252	21.00	0.07	0.025	(0.065)	0.007	0.018
253	21.08	0.10	0.037	(0.065)	0.011	0.026
254	21.17	0.10	0.037	(0.064)	0.011	0.026
255	21.25	0.10	0.037	(0.064)	0.011	0.026
256	21.33	0.07	0.025	(0.064)	0.007	0.018
257	21.42	0.07	0.025	(0.064)	0.007	0.018
258	21.50	0.07	0.025	(0.063)	0.007	0.018
259	21.58	0.10	0.037	(0.063)	0.011	0.026
260	21.67	0.10	0.037	(0.063)	0.011	0.026
261	21.75	0.10	0.037	(0.063)	0.011	0.026
262	21.83	0.07	0.025	(0.062)	0.007	0.018
263	21.92	0.07	0.025	(0.062)	0.007	0.018
264	22.00	0.07	0.025	(0.062)	0.007	0.018
265	22.08	0.10	0.037	(0.062)	0.011	0.026
266	22.17	0.10	0.037	(0.062)	0.011	0.026
267	22.25	0.10	0.037	(0.061)	0.011	0.026
268	22.33	0.07	0.025	(0.061)	0.007	0.018
269	22.42	0.07	0.025	(0.061)	0.007	0.018
270	22.50	0.07	0.025	(0.061)	0.007	0.018
271	22.58	0.07	0.025	(0.061)	0.007	0.018
272	22.67	0.07	0.025	(0.061)	0.007	0.018
273	22.75	0.07	0.025	(0.060)	0.007	0.018
274	22.83	0.07	0.025	(0.060)	0.007	0.018
275	22.92	0.07	0.025	(0.060)	0.007	0.018
276	23.00	0.07	0.025	(0.060)	0.007	0.018
277	23.08	0.07	0.025	(0.060)	0.007	0.018
278	23.17	0.07	0.025	(0.060)	0.007	0.018
279	23.25	0.07	0.025	(0.059)	0.007	0.018
280	23.33	0.07	0.025	(0.059)	0.007	0.018
281	23.42	0.07	0.025	(0.059)	0.007	0.018
282	23.50	0.07	0.025	(0.059)	0.007	0.018
283	23.58	0.07	0.025	(0.059)	0.007	0.018
284	23.67	0.07	0.025	(0.059)	0.007	0.018
285	23.75	0.07	0.025	(0.059)	0.007	0.018
286	23.83	0.07	0.025	(0.059)	0.007	0.018
287	23.92	0.07	0.025	(0.059)	0.007	0.018
288	24.00	0.07	0.025	(0.059)	0.007	0.018

(Loss Rate Not Used)

Sum = 100.0

Sum = 26.4

Flood volume = Effective rainfall 2.20(In)
times area 1.6(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)

Total soil loss = 0.89(In)

Total soil loss = 0.117(Ac.Ft)

Total rainfall = 3.09(In)

Flood volume = 12638.0 Cubic Feet

Total soil loss = 5102.0 Cubic Feet

 Peak flow rate of this hydrograph = 0.510(CFS)

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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	0.02	Q				
0+10	0.0003	0.03	Q				
0+15	0.0005	0.03	Q				
0+20	0.0008	0.04	Q				
0+25	0.0011	0.04	Q				
0+30	0.0014	0.04	Q				
0+35	0.0017	0.04	Q				
0+40	0.0019	0.04	Q				
0+45	0.0022	0.04	Q				
0+50	0.0026	0.05	Q				
0+55	0.0030	0.06	Q				
1+ 0	0.0034	0.06	Q				
1+ 5	0.0037	0.05	Q				
1+10	0.0040	0.04	Q				
1+15	0.0043	0.04	Q				
1+20	0.0045	0.04	Q				
1+25	0.0048	0.04	Q				
1+30	0.0051	0.04	Q				
1+35	0.0054	0.04	Q				
1+40	0.0057	0.04	Q				
1+45	0.0060	0.04	Q				
1+50	0.0063	0.05	Q				
1+55	0.0067	0.06	Q				
2+ 0	0.0071	0.06	Q				
2+ 5	0.0075	0.06	QV				
2+10	0.0079	0.06	QV				
2+15	0.0083	0.06	QV				
2+20	0.0087	0.06	QV				
2+25	0.0090	0.06	QV				
2+30	0.0094	0.06	QV				
2+35	0.0099	0.07	QV				
2+40	0.0104	0.07	QV				
2+45	0.0108	0.07	QV				
2+50	0.0113	0.07	QV				
2+55	0.0118	0.07	QV				
3+ 0	0.0123	0.07	QV				
3+ 5	0.0128	0.07	QV				
3+10	0.0132	0.07	QV				

3+15	0.0137	0.07	QV
3+20	0.0142	0.07	QV
3+25	0.0147	0.07	Q V
3+30	0.0152	0.07	Q V
3+35	0.0157	0.07	Q V
3+40	0.0161	0.07	Q V
3+45	0.0166	0.07	Q V
3+50	0.0172	0.08	Q V
3+55	0.0177	0.08	Q V
4+ 0	0.0183	0.08	Q V
4+ 5	0.0189	0.08	Q V
4+10	0.0195	0.08	Q V
4+15	0.0201	0.08	Q V
4+20	0.0207	0.09	Q V
4+25	0.0214	0.10	Q V
4+30	0.0220	0.10	Q V
4+35	0.0227	0.10	Q V
4+40	0.0234	0.10	Q V
4+45	0.0241	0.10	Q V
4+50	0.0248	0.11	Q V
4+55	0.0256	0.11	Q V
5+ 0	0.0264	0.11	Q V
5+ 5	0.0270	0.09	Q V
5+10	0.0276	0.08	Q V
5+15	0.0281	0.08	Q V
5+20	0.0288	0.09	Q V
5+25	0.0295	0.10	Q V
5+30	0.0301	0.10	Q V
5+35	0.0309	0.11	Q V
5+40	0.0316	0.11	Q V
5+45	0.0324	0.11	Q V
5+50	0.0332	0.11	Q V
5+55	0.0340	0.11	Q V
6+ 0	0.0347	0.11	Q V
6+ 5	0.0356	0.12	Q V
6+10	0.0364	0.13	Q V
6+15	0.0373	0.13	Q V
6+20	0.0382	0.13	Q V
6+25	0.0390	0.13	Q V
6+30	0.0399	0.13	Q V
6+35	0.0408	0.14	Q V
6+40	0.0418	0.14	Q V
6+45	0.0428	0.14	Q V
6+50	0.0437	0.14	Q V
6+55	0.0447	0.14	Q V
7+ 0	0.0456	0.14	Q V
7+ 5	0.0466	0.14	Q V
7+10	0.0476	0.14	Q V
7+15	0.0485	0.14	Q V
7+20	0.0496	0.15	Q V

7+25	0.0506	0.15	Q	V				
7+30	0.0517	0.15	Q	V				
7+35	0.0528	0.16	Q	V				
7+40	0.0540	0.17	Q	V				
7+45	0.0551	0.17	Q	V				
7+50	0.0563	0.18	Q	V				
7+55	0.0576	0.18	Q	V				
8+ 0	0.0588	0.18	Q	V				
8+ 5	0.0602	0.20	Q	V				
8+10	0.0617	0.21	Q	V				
8+15	0.0631	0.21	Q	V				
8+20	0.0646	0.21	Q	V				
8+25	0.0660	0.21	Q	V				
8+30	0.0675	0.21	Q	V				
8+35	0.0690	0.22	Q	V				
8+40	0.0705	0.22	Q	V				
8+45	0.0720	0.22	Q	V				
8+50	0.0737	0.23	Q	V				
8+55	0.0753	0.24	Q	V				
9+ 0	0.0769	0.24	Q	V				
9+ 5	0.0787	0.26	Q	V				
9+10	0.0805	0.27	Q	V				
9+15	0.0824	0.27	Q	V				
9+20	0.0843	0.28	Q	V				
9+25	0.0862	0.28	Q	V				
9+30	0.0881	0.28	Q	V				
9+35	0.0901	0.29	Q	V				
9+40	0.0921	0.29	Q	V				
9+45	0.0941	0.29	Q	V				
9+50	0.0962	0.30	Q	V				
9+55	0.0984	0.31	Q	V				
10+ 0	0.1005	0.31	Q	V				
10+ 5	0.1021	0.24	Q	V				
10+10	0.1035	0.21	Q	V				
10+15	0.1050	0.21	Q	V				
10+20	0.1064	0.21	Q	V				
10+25	0.1079	0.21	Q	V				
10+30	0.1093	0.21	Q	V				
10+35	0.1111	0.26	Q	V				
10+40	0.1130	0.28	Q	V				
10+45	0.1150	0.28	Q	V				
10+50	0.1169	0.28	Q	V				
10+55	0.1188	0.28	Q	V				
11+ 0	0.1207	0.28	Q	V				
11+ 5	0.1226	0.27	Q	V				
11+10	0.1244	0.27	Q	V				
11+15	0.1263	0.27	Q	V				
11+20	0.1281	0.27	Q	V				
11+25	0.1299	0.27	Q	V				
11+30	0.1317	0.27	Q	V				

11+35	0.1334	0.25	Q	V			
11+40	0.1351	0.24	Q	V			
11+45	0.1367	0.24	Q	V			
11+50	0.1384	0.25	Q	V			
11+55	0.1401	0.25	Q	V			
12+ 0	0.1419	0.25	Q	V			
12+ 5	0.1441	0.32	Q	V			
12+10	0.1465	0.35	Q	V			
12+15	0.1489	0.35	Q	V			
12+20	0.1514	0.36	Q	V			
12+25	0.1539	0.36	Q	V			
12+30	0.1564	0.36	Q	V			
12+35	0.1590	0.38	Q	V			
12+40	0.1617	0.39	Q	V			
12+45	0.1644	0.39	Q	V			
12+50	0.1672	0.40	Q	V			
12+55	0.1700	0.41	Q	V			
13+ 0	0.1728	0.41	Q	V			
13+ 5	0.1761	0.48	Q	V			
13+10	0.1795	0.51	Q	V			
13+15	0.1830	0.51	Q	V			
13+20	0.1865	0.51	Q	V			
13+25	0.1900	0.51	Q	V			
13+30	0.1936	0.51	Q	V			
13+35	0.1961	0.37	Q	V			
13+40	0.1983	0.32	Q	V			
13+45	0.2006	0.32	Q	V			
13+50	0.2028	0.32	Q	V			
13+55	0.2050	0.32	Q	V			
14+ 0	0.2072	0.32	Q	V			
14+ 5	0.2097	0.36	Q	V			
14+10	0.2123	0.38	Q	V			
14+15	0.2149	0.38	Q	V			
14+20	0.2174	0.37	Q	V			
14+25	0.2199	0.36	Q	V			
14+30	0.2224	0.36	Q	V			
14+35	0.2249	0.36	Q	V			
14+40	0.2274	0.36	Q	V			
14+45	0.2300	0.36	Q	V			
14+50	0.2324	0.35	Q	V			
14+55	0.2348	0.35	Q	V			
15+ 0	0.2372	0.35	Q	V			
15+ 5	0.2395	0.34	Q	V			
15+10	0.2418	0.34	Q	V			
15+15	0.2442	0.34	Q	V			
15+20	0.2464	0.33	Q	V			
15+25	0.2486	0.32	Q	V			
15+30	0.2508	0.32	Q	V			
15+35	0.2528	0.28	Q	V			
15+40	0.2546	0.27	Q	V			

15+45	0.2564	0.27	Q				V
15+50	0.2582	0.27	Q				V
15+55	0.2601	0.27	Q				V
16+ 0	0.2619	0.27	Q				V
16+ 5	0.2627	0.11	Q				V
16+10	0.2631	0.06	Q				V
16+15	0.2635	0.06	Q				V
16+20	0.2638	0.06	Q				V
16+25	0.2642	0.06	Q				V
16+30	0.2646	0.06	Q				V
16+35	0.2649	0.05	Q				V
16+40	0.2652	0.04	Q				V
16+45	0.2655	0.04	Q				V
16+50	0.2658	0.04	Q				V
16+55	0.2661	0.04	Q				V
17+ 0	0.2664	0.04	Q				V
17+ 5	0.2668	0.06	Q				V
17+10	0.2673	0.07	Q				V
17+15	0.2678	0.07	Q				V
17+20	0.2682	0.07	Q				V
17+25	0.2687	0.07	Q				V
17+30	0.2692	0.07	Q				V
17+35	0.2697	0.07	Q				V
17+40	0.2702	0.07	Q				V
17+45	0.2706	0.07	Q				V
17+50	0.2711	0.06	Q				V
17+55	0.2714	0.06	Q				V
18+ 0	0.2718	0.06	Q				V
18+ 5	0.2722	0.06	Q				V
18+10	0.2726	0.06	Q				V
18+15	0.2730	0.06	Q				V
18+20	0.2734	0.06	Q				V
18+25	0.2738	0.06	Q				V
18+30	0.2741	0.06	Q				V
18+35	0.2745	0.05	Q				V
18+40	0.2747	0.04	Q				V
18+45	0.2750	0.04	Q				V
18+50	0.2753	0.03	Q				V
18+55	0.2754	0.03	Q				V
19+ 0	0.2756	0.03	Q				V
19+ 5	0.2759	0.04	Q				V
19+10	0.2762	0.04	Q				V
19+15	0.2765	0.04	Q				V
19+20	0.2768	0.05	Q				V
19+25	0.2772	0.06	Q				V
19+30	0.2776	0.06	Q				V
19+35	0.2779	0.05	Q				V
19+40	0.2782	0.04	Q				V
19+45	0.2785	0.04	Q				V
19+50	0.2787	0.03	Q				V

19+55	0.2789	0.03	Q				V
20+ 0	0.2791	0.03	Q				V
20+ 5	0.2794	0.04	Q				V
20+10	0.2797	0.04	Q				V
20+15	0.2799	0.04	Q				V
20+20	0.2802	0.04	Q				V
20+25	0.2805	0.04	Q				V
20+30	0.2808	0.04	Q				V
20+35	0.2811	0.04	Q				V
20+40	0.2814	0.04	Q				V
20+45	0.2817	0.04	Q				V
20+50	0.2819	0.03	Q				V
20+55	0.2821	0.03	Q				V
21+ 0	0.2823	0.03	Q				V
21+ 5	0.2825	0.04	Q				V
21+10	0.2828	0.04	Q				V
21+15	0.2831	0.04	Q				V
21+20	0.2833	0.03	Q				V
21+25	0.2835	0.03	Q				V
21+30	0.2837	0.03	Q				V
21+35	0.2840	0.04	Q				V
21+40	0.2843	0.04	Q				V
21+45	0.2846	0.04	Q				V
21+50	0.2848	0.03	Q				V
21+55	0.2850	0.03	Q				V
22+ 0	0.2852	0.03	Q				V
22+ 5	0.2854	0.04	Q				V
22+10	0.2857	0.04	Q				V
22+15	0.2860	0.04	Q				V
22+20	0.2862	0.03	Q				V
22+25	0.2864	0.03	Q				V
22+30	0.2866	0.03	Q				V
22+35	0.2868	0.03	Q				V
22+40	0.2870	0.03	Q				V
22+45	0.2872	0.03	Q				V
22+50	0.2874	0.03	Q				V
22+55	0.2876	0.03	Q				V
23+ 0	0.2878	0.03	Q				V
23+ 5	0.2880	0.03	Q				V
23+10	0.2881	0.03	Q				V
23+15	0.2883	0.03	Q				V
23+20	0.2885	0.03	Q				V
23+25	0.2887	0.03	Q				V
23+30	0.2889	0.03	Q				V
23+35	0.2891	0.03	Q				V
23+40	0.2893	0.03	Q				V
23+45	0.2895	0.03	Q				V
23+50	0.2897	0.03	Q				V
23+55	0.2899	0.03	Q				V
24+ 0	0.2901	0.03	Q				V

24+ 5

0.2901

0.01 Q

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DMA 2 Proposed 100-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-1HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	0.48	0.76

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.25	1.98

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 1.250(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.250(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.761	0.061	1.000	0.061
Sum (F) =						0.061

Area averaged mean soil loss (F) (In/Hr) = 0.061
 Minimum soil loss rate ((In/Hr)) = 0.031
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	527.815	72.250	1.150
2	0.167	1055.631	27.750	0.442
		Sum = 100.000	Sum=	1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	4.40	0.660	0.061	(0.192)	0.599
2	0.17	4.50	0.675	0.061	(0.196)	0.614
3	0.25	5.40	0.810	0.061	(0.236)	0.749
4	0.33	5.40	0.810	0.061	(0.236)	0.749
5	0.42	5.70	0.855	0.061	(0.249)	0.794
6	0.50	6.40	0.960	0.061	(0.279)	0.899
7	0.58	7.90	1.185	0.061	(0.345)	1.124
8	0.67	9.10	1.365	0.061	(0.397)	1.304
9	0.75	12.80	1.920	0.061	(0.559)	1.859
10	0.83	25.60	3.840	0.061	(1.117)	3.779
11	0.92	7.90	1.185	0.061	(0.345)	1.124
12	1.00	4.90	0.735	0.061	(0.214)	0.674

(Loss Rate Not Used)

Sum = 100.0 Sum = 14.3

Flood volume = Effective rainfall 1.19(In)
times area 1.6(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.008(Ac.Ft)
Total rainfall = 1.25(In)
Flood volume = 6818.8 Cubic Feet
Total soil loss = 350.3 Cubic Feet

Peak flow rate of this hydrograph = 5.172(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0047	0.69	VQ				
0+10	0.0114	0.97	VQ				
0+15	0.0192	1.13	Q				
0+20	0.0275	1.19	Q V				
0+25	0.0360	1.24	Q V				
0+30	0.0456	1.39	Q V				
0+35	0.0572	1.69	Q V				
0+40	0.0710	2.00	Q V				
0+45	0.0897	2.72	Q V				
0+50	0.1253	5.17	Q V				
0+55	0.1457	2.96	Q V				
1+ 0	0.1545	1.27	Q V				

1+ 5

0.1565

0.30 | Q

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Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-3HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	0.80	1.26

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.95	3.08

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.950(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.950(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.761	0.061	1.000	0.061
Sum (F) =						0.061

Area averaged mean soil loss (F) (In/Hr) = 0.061
 Minimum soil loss rate ((In/Hr)) = 0.031
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	1.30	0.304	0.061	(0.089)	0.243
2	0.17	1.30	0.304	0.061	(0.089)	0.243
3	0.25	1.10	0.257	0.061	(0.075)	0.196
4	0.33	1.50	0.351	0.061	(0.102)	0.290
5	0.42	1.50	0.351	0.061	(0.102)	0.290
6	0.50	1.80	0.421	0.061	(0.123)	0.360
7	0.58	1.50	0.351	0.061	(0.102)	0.290
8	0.67	1.80	0.421	0.061	(0.123)	0.360
9	0.75	1.80	0.421	0.061	(0.123)	0.360
10	0.83	1.50	0.351	0.061	(0.102)	0.290
11	0.92	1.60	0.374	0.061	(0.109)	0.313
12	1.00	1.80	0.421	0.061	(0.123)	0.360
13	1.08	2.20	0.515	0.061	(0.150)	0.454
14	1.17	2.20	0.515	0.061	(0.150)	0.454
15	1.25	2.20	0.515	0.061	(0.150)	0.454
16	1.33	2.00	0.468	0.061	(0.136)	0.407
17	1.42	2.60	0.608	0.061	(0.177)	0.547
18	1.50	2.70	0.632	0.061	(0.184)	0.571
19	1.58	2.40	0.562	0.061	(0.163)	0.501
20	1.67	2.70	0.632	0.061	(0.184)	0.571
21	1.75	3.30	0.772	0.061	(0.225)	0.711
22	1.83	3.10	0.725	0.061	(0.211)	0.664
23	1.92	2.90	0.679	0.061	(0.197)	0.618
24	2.00	3.00	0.702	0.061	(0.204)	0.641
25	2.08	3.10	0.725	0.061	(0.211)	0.664
26	2.17	4.20	0.983	0.061	(0.286)	0.922
27	2.25	5.00	1.170	0.061	(0.340)	1.109
28	2.33	3.50	0.819	0.061	(0.238)	0.758
29	2.42	6.80	1.591	0.061	(0.463)	1.530
30	2.50	7.30	1.708	0.061	(0.497)	1.647
31	2.58	8.20	1.919	0.061	(0.558)	1.858
32	2.67	5.90	1.381	0.061	(0.402)	1.320
33	2.75	2.00	0.468	0.061	(0.136)	0.407
34	2.83	1.80	0.421	0.061	(0.123)	0.360
35	2.92	1.80	0.421	0.061	(0.123)	0.360
36	3.00	0.60	0.140	(0.061)	0.041	0.100

(Loss Rate Not Used)

Sum = 100.0

Sum = 21.2

Flood volume = Effective rainfall 1.77(In)
times area 1.6(Ac.)/[((In)/(Ft.))] = 0.2(Ac.Ft)
Total soil loss = 0.18(In)
Total soil loss = 0.024(Ac.Ft)
Total rainfall = 1.95(In)
Flood volume = 10142.7 Cubic Feet
Total soil loss = 1041.3 Cubic Feet

Peak flow rate of this hydrograph = 2.867(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	2.5	5.0	7.5	10.0
0+ 5	0.0019	0.28	VQ				
0+10	0.0046	0.39	VQ				
0+15	0.0069	0.33	Q				
0+20	0.0098	0.42	Q				
0+25	0.0130	0.46	QV				
0+30	0.0167	0.54	Q				
0+35	0.0201	0.49	Q V				
0+40	0.0238	0.54	Q V				
0+45	0.0278	0.57	Q V				
0+50	0.0312	0.49	Q V				
0+55	0.0346	0.49	Q V				
1+ 0	0.0384	0.55	Q V				
1+ 5	0.0431	0.68	Q V				
1+10	0.0480	0.72	Q V				
1+15	0.0530	0.72	Q V				
1+20	0.0576	0.67	Q V				
1+25	0.0632	0.81	Q V				
1+30	0.0694	0.90	Q V				
1+35	0.0751	0.83	Q V				
1+40	0.0811	0.88	Q V				
1+45	0.0885	1.07	Q V				
1+50	0.0959	1.08	Q V				
1+55	0.1029	1.00	Q V				
2+ 0	0.1098	1.01	Q V				
2+ 5	0.1170	1.05	Q V				
2+10	0.1264	1.35	Q V				
2+15	0.1380	1.68	Q V				
2+20	0.1474	1.36	Q V				
2+25	0.1618	2.10	Q V				
2+30	0.1795	2.57	Q V				
2+35	0.1993	2.87	Q V				
2+40	0.2154	2.34	Q V				
2+45	0.2226	1.05	Q V				
2+50	0.2267	0.59	Q V				
2+55	0.2307	0.57	Q V				
3+ 0	0.2325	0.27	Q V				
3+ 5	0.2328	0.04	Q V				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH6100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-6HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	1.11	1.75

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	2.70	4.27

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.110(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 2.700(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.700(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.761	0.061	1.000	0.061
Sum (F) =						0.061

Area averaged mean soil loss (F) (In/Hr) = 0.061
 Minimum soil loss rate ((In/Hr)) = 0.031
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.162	(0.061)	0.047	0.115
2	0.17	0.60	0.194	(0.061)	0.057	0.138
3	0.25	0.60	0.194	(0.061)	0.057	0.138
4	0.33	0.60	0.194	(0.061)	0.057	0.138
5	0.42	0.60	0.194	(0.061)	0.057	0.138
6	0.50	0.70	0.227	0.061	(0.066)	0.166
7	0.58	0.70	0.227	0.061	(0.066)	0.166
8	0.67	0.70	0.227	0.061	(0.066)	0.166
9	0.75	0.70	0.227	0.061	(0.066)	0.166
10	0.83	0.70	0.227	0.061	(0.066)	0.166
11	0.92	0.70	0.227	0.061	(0.066)	0.166
12	1.00	0.80	0.259	0.061	(0.075)	0.198
13	1.08	0.80	0.259	0.061	(0.075)	0.198
14	1.17	0.80	0.259	0.061	(0.075)	0.198
15	1.25	0.80	0.259	0.061	(0.075)	0.198
16	1.33	0.80	0.259	0.061	(0.075)	0.198
17	1.42	0.80	0.259	0.061	(0.075)	0.198
18	1.50	0.80	0.259	0.061	(0.075)	0.198
19	1.58	0.80	0.259	0.061	(0.075)	0.198
20	1.67	0.80	0.259	0.061	(0.075)	0.198
21	1.75	0.80	0.259	0.061	(0.075)	0.198
22	1.83	0.80	0.259	0.061	(0.075)	0.198
23	1.92	0.80	0.259	0.061	(0.075)	0.198
24	2.00	0.90	0.292	0.061	(0.085)	0.231
25	2.08	0.80	0.259	0.061	(0.075)	0.198
26	2.17	0.90	0.292	0.061	(0.085)	0.231
27	2.25	0.90	0.292	0.061	(0.085)	0.231
28	2.33	0.90	0.292	0.061	(0.085)	0.231
29	2.42	0.90	0.292	0.061	(0.085)	0.231
30	2.50	0.90	0.292	0.061	(0.085)	0.231
31	2.58	0.90	0.292	0.061	(0.085)	0.231
32	2.67	0.90	0.292	0.061	(0.085)	0.231
33	2.75	1.00	0.324	0.061	(0.094)	0.263
34	2.83	1.00	0.324	0.061	(0.094)	0.263
35	2.92	1.00	0.324	0.061	(0.094)	0.263
36	3.00	1.00	0.324	0.061	(0.094)	0.263
37	3.08	1.00	0.324	0.061	(0.094)	0.263
38	3.17	1.10	0.356	0.061	(0.104)	0.295
39	3.25	1.10	0.356	0.061	(0.104)	0.295
40	3.33	1.10	0.356	0.061	(0.104)	0.295
41	3.42	1.20	0.389	0.061	(0.113)	0.328
42	3.50	1.30	0.421	0.061	(0.123)	0.360
43	3.58	1.40	0.454	0.061	(0.132)	0.393
44	3.67	1.40	0.454	0.061	(0.132)	0.393
45	3.75	1.50	0.486	0.061	(0.141)	0.425
46	3.83	1.50	0.486	0.061	(0.141)	0.425
47	3.92	1.60	0.518	0.061	(0.151)	0.457

0+25	0.0069	0.22	Q				
0+30	0.0086	0.25	Q				
0+35	0.0104	0.26	Q				
0+40	0.0123	0.26	Q				
0+45	0.0141	0.26	Q				
0+50	0.0159	0.26	QV				
0+55	0.0177	0.26	QV				
1+ 0	0.0198	0.30	QV				
1+ 5	0.0220	0.32	QV				
1+10	0.0241	0.32	Q V				
1+15	0.0263	0.32	Q V				
1+20	0.0285	0.32	Q V				
1+25	0.0307	0.32	Q V				
1+30	0.0328	0.32	Q V				
1+35	0.0350	0.32	Q V				
1+40	0.0372	0.32	Q V				
1+45	0.0394	0.32	Q V				
1+50	0.0415	0.32	Q V				
1+55	0.0437	0.32	Q V				
2+ 0	0.0461	0.35	Q V				
2+ 5	0.0484	0.33	Q V				
2+10	0.0508	0.35	Q V				
2+15	0.0534	0.37	Q V				
2+20	0.0559	0.37	Q V				
2+25	0.0584	0.37	Q V				
2+30	0.0610	0.37	Q V				
2+35	0.0635	0.37	Q V				
2+40	0.0660	0.37	Q V				
2+45	0.0688	0.40	Q V				
2+50	0.0717	0.42	Q V				
2+55	0.0746	0.42	Q V				
3+ 0	0.0775	0.42	Q V				
3+ 5	0.0803	0.42	Q V				
3+10	0.0835	0.46	Q V				
3+15	0.0867	0.47	Q V				
3+20	0.0900	0.47	Q V				
3+25	0.0935	0.51	Q V				
3+30	0.0973	0.56	Q V				
3+35	0.1015	0.61	Q V				
3+40	0.1058	0.63	Q V				
3+45	0.1104	0.66	Q V				
3+50	0.1150	0.68	Q V				
3+55	0.1200	0.71	Q V				
4+ 0	0.1250	0.73	Q V				
4+ 5	0.1303	0.77	Q V				
4+10	0.1359	0.82	Q V				
4+15	0.1419	0.87	Q V				
4+20	0.1482	0.92	Q V				
4+25	0.1549	0.97	Q V				
4+30	0.1617	0.99	Q V				

4+35	0.1688	1.02	Q		V		
4+40	0.1762	1.08	Q		V		
4+45	0.1839	1.13	Q		V		
4+50	0.1918	1.14	Q		V		
4+55	0.1999	1.18	Q		V		
5+ 0	0.2084	1.23	Q		V		
5+ 5	0.2182	1.43	Q		V		
5+10	0.2299	1.69	Q		V		
5+15	0.2428	1.87	Q		V		
5+20	0.2567	2.03	Q		V		
5+25	0.2723	2.26	Q		V		
5+30	0.2906	2.66	Q		V		
5+35	0.3004	1.41	Q		V		
5+40	0.3039	0.51	Q		V		
5+45	0.3057	0.26	Q		V		
5+50	0.3070	0.19	Q		V		
5+55	0.3079	0.13	Q		V		
6+ 0	0.3085	0.08	Q		V		
6+ 5	0.3086	0.02	Q		V		

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA2Q100UH24100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-24HR UH

Drainage Area = 1.58(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.58(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 336.00(Ft.)
Length along longest watercourse measured to centroid = 234.53(Ft.)
Length along longest watercourse = 0.064 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 3.36(Ft.)
Slope along watercourse = 52.8000 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.016 Hr.
Lag time = 0.95 Min.
25% of lag time = 0.24 Min.
40% of lag time = 0.38 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]
1.58	1.90	3.00

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.58	4.80	7.58

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 4.800(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 4.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.580	69.00	0.761
Total Area Entered = 1.58(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.761	0.061	1.000	0.061
Sum (F) =						0.061

Area averaged mean soil loss (F) (In/Hr) = 0.061
 Minimum soil loss rate ((In/Hr)) = 0.031
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.291

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	527.815	72.250
2	0.167	1055.631	27.750
		Sum = 100.000	Sum= 1.592

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.038	(0.108)	0.011	0.027
2	0.17	0.07	0.038	(0.108)	0.011	0.027
3	0.25	0.07	0.038	(0.107)	0.011	0.027
4	0.33	0.10	0.058	(0.107)	0.017	0.041
5	0.42	0.10	0.058	(0.107)	0.017	0.041
6	0.50	0.10	0.058	(0.106)	0.017	0.041
7	0.58	0.10	0.058	(0.106)	0.017	0.041
8	0.67	0.10	0.058	(0.105)	0.017	0.041
9	0.75	0.10	0.058	(0.105)	0.017	0.041
10	0.83	0.13	0.077	(0.105)	0.022	0.054
11	0.92	0.13	0.077	(0.104)	0.022	0.054
12	1.00	0.13	0.077	(0.104)	0.022	0.054
13	1.08	0.10	0.058	(0.103)	0.017	0.041
14	1.17	0.10	0.058	(0.103)	0.017	0.041
15	1.25	0.10	0.058	(0.102)	0.017	0.041
16	1.33	0.10	0.058	(0.102)	0.017	0.041
17	1.42	0.10	0.058	(0.102)	0.017	0.041
18	1.50	0.10	0.058	(0.101)	0.017	0.041
19	1.58	0.10	0.058	(0.101)	0.017	0.041
20	1.67	0.10	0.058	(0.100)	0.017	0.041
21	1.75	0.10	0.058	(0.100)	0.017	0.041
22	1.83	0.13	0.077	(0.100)	0.022	0.054
23	1.92	0.13	0.077	(0.099)	0.022	0.054
24	2.00	0.13	0.077	(0.099)	0.022	0.054
25	2.08	0.13	0.077	(0.098)	0.022	0.054
26	2.17	0.13	0.077	(0.098)	0.022	0.054
27	2.25	0.13	0.077	(0.098)	0.022	0.054
28	2.33	0.13	0.077	(0.097)	0.022	0.054
29	2.42	0.13	0.077	(0.097)	0.022	0.054
30	2.50	0.13	0.077	(0.096)	0.022	0.054
31	2.58	0.17	0.096	(0.096)	0.028	0.068
32	2.67	0.17	0.096	(0.096)	0.028	0.068
33	2.75	0.17	0.096	(0.095)	0.028	0.068
34	2.83	0.17	0.096	(0.095)	0.028	0.068
35	2.92	0.17	0.096	(0.094)	0.028	0.068
36	3.00	0.17	0.096	(0.094)	0.028	0.068
37	3.08	0.17	0.096	(0.094)	0.028	0.068
38	3.17	0.17	0.096	(0.093)	0.028	0.068
39	3.25	0.17	0.096	(0.093)	0.028	0.068
40	3.33	0.17	0.096	(0.093)	0.028	0.068
41	3.42	0.17	0.096	(0.092)	0.028	0.068
42	3.50	0.17	0.096	(0.092)	0.028	0.068
43	3.58	0.17	0.096	(0.091)	0.028	0.068
44	3.67	0.17	0.096	(0.091)	0.028	0.068
45	3.75	0.17	0.096	(0.091)	0.028	0.068
46	3.83	0.20	0.115	(0.090)	0.034	0.082
47	3.92	0.20	0.115	(0.090)	0.034	0.082

48	4.00	0.20	0.115	(0.089)	0.034	0.082
49	4.08	0.20	0.115	(0.089)	0.034	0.082
50	4.17	0.20	0.115	(0.089)	0.034	0.082
51	4.25	0.20	0.115	(0.088)	0.034	0.082
52	4.33	0.23	0.134	(0.088)	0.039	0.095
53	4.42	0.23	0.134	(0.088)	0.039	0.095
54	4.50	0.23	0.134	(0.087)	0.039	0.095
55	4.58	0.23	0.134	(0.087)	0.039	0.095
56	4.67	0.23	0.134	(0.086)	0.039	0.095
57	4.75	0.23	0.134	(0.086)	0.039	0.095
58	4.83	0.27	0.154	(0.086)	0.045	0.109
59	4.92	0.27	0.154	(0.085)	0.045	0.109
60	5.00	0.27	0.154	(0.085)	0.045	0.109
61	5.08	0.20	0.115	(0.085)	0.034	0.082
62	5.17	0.20	0.115	(0.084)	0.034	0.082
63	5.25	0.20	0.115	(0.084)	0.034	0.082
64	5.33	0.23	0.134	(0.084)	0.039	0.095
65	5.42	0.23	0.134	(0.083)	0.039	0.095
66	5.50	0.23	0.134	(0.083)	0.039	0.095
67	5.58	0.27	0.154	(0.082)	0.045	0.109
68	5.67	0.27	0.154	(0.082)	0.045	0.109
69	5.75	0.27	0.154	(0.082)	0.045	0.109
70	5.83	0.27	0.154	(0.081)	0.045	0.109
71	5.92	0.27	0.154	(0.081)	0.045	0.109
72	6.00	0.27	0.154	(0.081)	0.045	0.109
73	6.08	0.30	0.173	(0.080)	0.050	0.123
74	6.17	0.30	0.173	(0.080)	0.050	0.123
75	6.25	0.30	0.173	(0.080)	0.050	0.123
76	6.33	0.30	0.173	(0.079)	0.050	0.123
77	6.42	0.30	0.173	(0.079)	0.050	0.123
78	6.50	0.30	0.173	(0.078)	0.050	0.123
79	6.58	0.33	0.192	(0.078)	0.056	0.136
80	6.67	0.33	0.192	(0.078)	0.056	0.136
81	6.75	0.33	0.192	(0.077)	0.056	0.136
82	6.83	0.33	0.192	(0.077)	0.056	0.136
83	6.92	0.33	0.192	(0.077)	0.056	0.136
84	7.00	0.33	0.192	(0.076)	0.056	0.136
85	7.08	0.33	0.192	(0.076)	0.056	0.136
86	7.17	0.33	0.192	(0.076)	0.056	0.136
87	7.25	0.33	0.192	(0.075)	0.056	0.136
88	7.33	0.37	0.211	(0.075)	0.061	0.150
89	7.42	0.37	0.211	(0.075)	0.061	0.150
90	7.50	0.37	0.211	(0.074)	0.061	0.150
91	7.58	0.40	0.230	(0.074)	0.067	0.163
92	7.67	0.40	0.230	(0.074)	0.067	0.163
93	7.75	0.40	0.230	(0.073)	0.067	0.163
94	7.83	0.43	0.250	(0.073)	0.073	0.177
95	7.92	0.43	0.250	0.073	(0.073)	0.177
96	8.00	0.43	0.250	0.072	(0.073)	0.177
97	8.08	0.50	0.288	0.072	(0.084)	0.216

98	8.17	0.50	0.288	0.072	(0.084)	0.216
99	8.25	0.50	0.288	0.071	(0.084)	0.217
100	8.33	0.50	0.288	0.071	(0.084)	0.217
101	8.42	0.50	0.288	0.071	(0.084)	0.217
102	8.50	0.50	0.288	0.070	(0.084)	0.218
103	8.58	0.53	0.307	0.070	(0.089)	0.237
104	8.67	0.53	0.307	0.070	(0.089)	0.238
105	8.75	0.53	0.307	0.069	(0.089)	0.238
106	8.83	0.57	0.326	0.069	(0.095)	0.257
107	8.92	0.57	0.326	0.069	(0.095)	0.258
108	9.00	0.57	0.326	0.068	(0.095)	0.258
109	9.08	0.63	0.365	0.068	(0.106)	0.297
110	9.17	0.63	0.365	0.068	(0.106)	0.297
111	9.25	0.63	0.365	0.067	(0.106)	0.297
112	9.33	0.67	0.384	0.067	(0.112)	0.317
113	9.42	0.67	0.384	0.067	(0.112)	0.317
114	9.50	0.67	0.384	0.066	(0.112)	0.318
115	9.58	0.70	0.403	0.066	(0.117)	0.337
116	9.67	0.70	0.403	0.066	(0.117)	0.337
117	9.75	0.70	0.403	0.065	(0.117)	0.338
118	9.83	0.73	0.422	0.065	(0.123)	0.357
119	9.92	0.73	0.422	0.065	(0.123)	0.358
120	10.00	0.73	0.422	0.064	(0.123)	0.358
121	10.08	0.50	0.288	0.064	(0.084)	0.224
122	10.17	0.50	0.288	0.064	(0.084)	0.224
123	10.25	0.50	0.288	0.064	(0.084)	0.224
124	10.33	0.50	0.288	0.063	(0.084)	0.225
125	10.42	0.50	0.288	0.063	(0.084)	0.225
126	10.50	0.50	0.288	0.063	(0.084)	0.225
127	10.58	0.67	0.384	0.062	(0.112)	0.322
128	10.67	0.67	0.384	0.062	(0.112)	0.322
129	10.75	0.67	0.384	0.062	(0.112)	0.322
130	10.83	0.67	0.384	0.061	(0.112)	0.323
131	10.92	0.67	0.384	0.061	(0.112)	0.323
132	11.00	0.67	0.384	0.061	(0.112)	0.323
133	11.08	0.63	0.365	0.061	(0.106)	0.304
134	11.17	0.63	0.365	0.060	(0.106)	0.305
135	11.25	0.63	0.365	0.060	(0.106)	0.305
136	11.33	0.63	0.365	0.060	(0.106)	0.305
137	11.42	0.63	0.365	0.059	(0.106)	0.305
138	11.50	0.63	0.365	0.059	(0.106)	0.306
139	11.58	0.57	0.326	0.059	(0.095)	0.268
140	11.67	0.57	0.326	0.058	(0.095)	0.268
141	11.75	0.57	0.326	0.058	(0.095)	0.268
142	11.83	0.60	0.346	0.058	(0.101)	0.288
143	11.92	0.60	0.346	0.058	(0.101)	0.288
144	12.00	0.60	0.346	0.057	(0.101)	0.288
145	12.08	0.83	0.480	0.057	(0.140)	0.423
146	12.17	0.83	0.480	0.057	(0.140)	0.423
147	12.25	0.83	0.480	0.056	(0.140)	0.424

148	12.33	0.87	0.499	0.056	(0.145)	0.443
149	12.42	0.87	0.499	0.056	(0.145)	0.443
150	12.50	0.87	0.499	0.056	(0.145)	0.444
151	12.58	0.93	0.538	0.055	(0.156)	0.482
152	12.67	0.93	0.538	0.055	(0.156)	0.483
153	12.75	0.93	0.538	0.055	(0.156)	0.483
154	12.83	0.97	0.557	0.054	(0.162)	0.502
155	12.92	0.97	0.557	0.054	(0.162)	0.503
156	13.00	0.97	0.557	0.054	(0.162)	0.503
157	13.08	1.13	0.653	0.054	(0.190)	0.599
158	13.17	1.13	0.653	0.053	(0.190)	0.599
159	13.25	1.13	0.653	0.053	(0.190)	0.600
160	13.33	1.13	0.653	0.053	(0.190)	0.600
161	13.42	1.13	0.653	0.053	(0.190)	0.600
162	13.50	1.13	0.653	0.052	(0.190)	0.600
163	13.58	0.77	0.442	0.052	(0.129)	0.390
164	13.67	0.77	0.442	0.052	(0.129)	0.390
165	13.75	0.77	0.442	0.052	(0.129)	0.390
166	13.83	0.77	0.442	0.051	(0.129)	0.390
167	13.92	0.77	0.442	0.051	(0.129)	0.391
168	14.00	0.77	0.442	0.051	(0.129)	0.391
169	14.08	0.90	0.518	0.050	(0.151)	0.468
170	14.17	0.90	0.518	0.050	(0.151)	0.468
171	14.25	0.90	0.518	0.050	(0.151)	0.468
172	14.33	0.87	0.499	0.050	(0.145)	0.449
173	14.42	0.87	0.499	0.049	(0.145)	0.450
174	14.50	0.87	0.499	0.049	(0.145)	0.450
175	14.58	0.87	0.499	0.049	(0.145)	0.450
176	14.67	0.87	0.499	0.049	(0.145)	0.451
177	14.75	0.87	0.499	0.048	(0.145)	0.451
178	14.83	0.83	0.480	0.048	(0.140)	0.432
179	14.92	0.83	0.480	0.048	(0.140)	0.432
180	15.00	0.83	0.480	0.048	(0.140)	0.432
181	15.08	0.80	0.461	0.047	(0.134)	0.413
182	15.17	0.80	0.461	0.047	(0.134)	0.414
183	15.25	0.80	0.461	0.047	(0.134)	0.414
184	15.33	0.77	0.442	0.047	(0.129)	0.395
185	15.42	0.77	0.442	0.046	(0.129)	0.395
186	15.50	0.77	0.442	0.046	(0.129)	0.395
187	15.58	0.63	0.365	0.046	(0.106)	0.319
188	15.67	0.63	0.365	0.046	(0.106)	0.319
189	15.75	0.63	0.365	0.046	(0.106)	0.319
190	15.83	0.63	0.365	0.045	(0.106)	0.319
191	15.92	0.63	0.365	0.045	(0.106)	0.320
192	16.00	0.63	0.365	0.045	(0.106)	0.320
193	16.08	0.13	0.077	(0.045)	0.022	0.054
194	16.17	0.13	0.077	(0.044)	0.022	0.054
195	16.25	0.13	0.077	(0.044)	0.022	0.054
196	16.33	0.13	0.077	(0.044)	0.022	0.054
197	16.42	0.13	0.077	(0.044)	0.022	0.054

198	16.50	0.13	0.077	(0.043)	0.022	0.054
199	16.58	0.10	0.058	(0.043)	0.017	0.041
200	16.67	0.10	0.058	(0.043)	0.017	0.041
201	16.75	0.10	0.058	(0.043)	0.017	0.041
202	16.83	0.10	0.058	(0.043)	0.017	0.041
203	16.92	0.10	0.058	(0.042)	0.017	0.041
204	17.00	0.10	0.058	(0.042)	0.017	0.041
205	17.08	0.17	0.096	(0.042)	0.028	0.068
206	17.17	0.17	0.096	(0.042)	0.028	0.068
207	17.25	0.17	0.096	(0.042)	0.028	0.068
208	17.33	0.17	0.096	(0.041)	0.028	0.068
209	17.42	0.17	0.096	(0.041)	0.028	0.068
210	17.50	0.17	0.096	(0.041)	0.028	0.068
211	17.58	0.17	0.096	(0.041)	0.028	0.068
212	17.67	0.17	0.096	(0.041)	0.028	0.068
213	17.75	0.17	0.096	(0.040)	0.028	0.068
214	17.83	0.13	0.077	(0.040)	0.022	0.054
215	17.92	0.13	0.077	(0.040)	0.022	0.054
216	18.00	0.13	0.077	(0.040)	0.022	0.054
217	18.08	0.13	0.077	(0.040)	0.022	0.054
218	18.17	0.13	0.077	(0.039)	0.022	0.054
219	18.25	0.13	0.077	(0.039)	0.022	0.054
220	18.33	0.13	0.077	(0.039)	0.022	0.054
221	18.42	0.13	0.077	(0.039)	0.022	0.054
222	18.50	0.13	0.077	(0.039)	0.022	0.054
223	18.58	0.10	0.058	(0.038)	0.017	0.041
224	18.67	0.10	0.058	(0.038)	0.017	0.041
225	18.75	0.10	0.058	(0.038)	0.017	0.041
226	18.83	0.07	0.038	(0.038)	0.011	0.027
227	18.92	0.07	0.038	(0.038)	0.011	0.027
228	19.00	0.07	0.038	(0.037)	0.011	0.027
229	19.08	0.10	0.058	(0.037)	0.017	0.041
230	19.17	0.10	0.058	(0.037)	0.017	0.041
231	19.25	0.10	0.058	(0.037)	0.017	0.041
232	19.33	0.13	0.077	(0.037)	0.022	0.054
233	19.42	0.13	0.077	(0.037)	0.022	0.054
234	19.50	0.13	0.077	(0.036)	0.022	0.054
235	19.58	0.10	0.058	(0.036)	0.017	0.041
236	19.67	0.10	0.058	(0.036)	0.017	0.041
237	19.75	0.10	0.058	(0.036)	0.017	0.041
238	19.83	0.07	0.038	(0.036)	0.011	0.027
239	19.92	0.07	0.038	(0.036)	0.011	0.027
240	20.00	0.07	0.038	(0.035)	0.011	0.027
241	20.08	0.10	0.058	(0.035)	0.017	0.041
242	20.17	0.10	0.058	(0.035)	0.017	0.041
243	20.25	0.10	0.058	(0.035)	0.017	0.041
244	20.33	0.10	0.058	(0.035)	0.017	0.041
245	20.42	0.10	0.058	(0.035)	0.017	0.041
246	20.50	0.10	0.058	(0.035)	0.017	0.041
247	20.58	0.10	0.058	(0.034)	0.017	0.041

 Peak flow rate of this hydrograph = 0.957(CFS)

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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	0.0002	0.03	Q				
0+10	0.0005	0.04	Q				
0+15	0.0008	0.04	Q				
0+20	0.0012	0.06	Q				
0+25	0.0017	0.07	Q				
0+30	0.0021	0.07	Q				
0+35	0.0026	0.07	Q				
0+40	0.0030	0.07	Q				
0+45	0.0035	0.07	Q				
0+50	0.0040	0.08	Q				
0+55	0.0046	0.09	Q				
1+ 0	0.0052	0.09	Q				
1+ 5	0.0057	0.07	Q				
1+10	0.0061	0.07	Q				
1+15	0.0066	0.07	Q				
1+20	0.0070	0.07	Q				
1+25	0.0075	0.07	Q				
1+30	0.0079	0.07	Q				
1+35	0.0084	0.07	Q				
1+40	0.0088	0.07	Q				
1+45	0.0093	0.07	Q				
1+50	0.0098	0.08	Q				
1+55	0.0104	0.09	Q				
2+ 0	0.0110	0.09	Q				
2+ 5	0.0116	0.09	Q				
2+10	0.0122	0.09	Q				
2+15	0.0128	0.09	Q				
2+20	0.0134	0.09	QV				
2+25	0.0140	0.09	QV				
2+30	0.0146	0.09	QV				
2+35	0.0153	0.10	QV				
2+40	0.0161	0.11	QV				
2+45	0.0168	0.11	QV				
2+50	0.0176	0.11	QV				
2+55	0.0183	0.11	QV				
3+ 0	0.0191	0.11	QV				
3+ 5	0.0198	0.11	QV				
3+10	0.0206	0.11	QV				

3+15	0.0213	0.11	QV
3+20	0.0220	0.11	QV
3+25	0.0228	0.11	QV
3+30	0.0235	0.11	QV
3+35	0.0243	0.11	QV
3+40	0.0250	0.11	QV
3+45	0.0258	0.11	QV
3+50	0.0266	0.12	Q V
3+55	0.0275	0.13	Q V
4+ 0	0.0284	0.13	Q V
4+ 5	0.0293	0.13	Q V
4+10	0.0302	0.13	Q V
4+15	0.0311	0.13	Q V
4+20	0.0321	0.15	Q V
4+25	0.0332	0.15	Q V
4+30	0.0342	0.15	Q V
4+35	0.0353	0.15	Q V
4+40	0.0363	0.15	Q V
4+45	0.0373	0.15	Q V
4+50	0.0385	0.17	Q V
4+55	0.0397	0.17	Q V
5+ 0	0.0409	0.17	Q V
5+ 5	0.0419	0.14	Q V
5+10	0.0428	0.13	Q V
5+15	0.0437	0.13	Q V
5+20	0.0447	0.15	Q V
5+25	0.0457	0.15	Q V
5+30	0.0468	0.15	Q V
5+35	0.0479	0.17	Q V
5+40	0.0491	0.17	Q V
5+45	0.0503	0.17	Q V
5+50	0.0515	0.17	Q V
5+55	0.0527	0.17	Q V
6+ 0	0.0539	0.17	Q V
6+ 5	0.0552	0.19	Q V
6+10	0.0565	0.20	Q V
6+15	0.0579	0.20	Q V
6+20	0.0592	0.20	Q V
6+25	0.0606	0.20	Q V
6+30	0.0619	0.20	Q V
6+35	0.0634	0.21	Q V
6+40	0.0649	0.22	Q V
6+45	0.0664	0.22	Q V
6+50	0.0678	0.22	Q V
6+55	0.0693	0.22	Q V
7+ 0	0.0708	0.22	Q V
7+ 5	0.0723	0.22	Q V
7+10	0.0738	0.22	Q V
7+15	0.0753	0.22	Q V
7+20	0.0769	0.23	Q V

7+25	0.0786	0.24	Q	V				
7+30	0.0802	0.24	Q	V				
7+35	0.0820	0.25	Q	V				
7+40	0.0837	0.26	Q	V				
7+45	0.0855	0.26	Q	V				
7+50	0.0874	0.28	Q	V				
7+55	0.0894	0.28	Q	V				
8+ 0	0.0913	0.28	Q	V				
8+ 5	0.0936	0.33	Q	V				
8+10	0.0959	0.34	Q	V				
8+15	0.0983	0.35	Q	V				
8+20	0.1007	0.35	Q	V				
8+25	0.1031	0.35	Q	V				
8+30	0.1055	0.35	Q	V				
8+35	0.1080	0.37	Q	V				
8+40	0.1106	0.38	Q	V				
8+45	0.1132	0.38	Q	V				
8+50	0.1160	0.40	Q	V				
8+55	0.1188	0.41	Q	V				
9+ 0	0.1217	0.41	Q	V				
9+ 5	0.1248	0.46	Q	V				
9+10	0.1281	0.47	Q	V				
9+15	0.1313	0.47	Q	V				
9+20	0.1347	0.50	Q	V				
9+25	0.1382	0.51	Q	V				
9+30	0.1417	0.51	Q	V				
9+35	0.1453	0.53	Q	V				
9+40	0.1490	0.54	Q	V				
9+45	0.1527	0.54	Q	V				
9+50	0.1566	0.56	Q	V				
9+55	0.1605	0.57	Q	V				
10+ 0	0.1645	0.57	Q	V				
10+ 5	0.1673	0.42	Q	V				
10+10	0.1698	0.36	Q	V				
10+15	0.1722	0.36	Q	V				
10+20	0.1747	0.36	Q	V				
10+25	0.1772	0.36	Q	V				
10+30	0.1796	0.36	Q	V				
10+35	0.1829	0.47	Q	V				
10+40	0.1864	0.51	Q	V				
10+45	0.1899	0.51	Q	V				
10+50	0.1935	0.51	Q	V				
10+55	0.1970	0.51	Q	V				
11+ 0	0.2006	0.51	Q	V				
11+ 5	0.2040	0.49	Q	V				
11+10	0.2073	0.49	Q	V				
11+15	0.2107	0.49	Q	V				
11+20	0.2140	0.49	Q	V				
11+25	0.2174	0.49	Q	V				
11+30	0.2207	0.49	Q	V				

11+35	0.2238	0.44	Q	V			
11+40	0.2267	0.43	Q	V			
11+45	0.2296	0.43	Q	V			
11+50	0.2327	0.45	Q	V			
11+55	0.2359	0.46	Q	V			
12+ 0	0.2391	0.46	Q	V			
12+ 5	0.2433	0.61	Q	V			
12+10	0.2479	0.67	Q	V			
12+15	0.2526	0.67	Q	V			
12+20	0.2574	0.70	Q	V			
12+25	0.2622	0.71	Q	V			
12+30	0.2671	0.71	Q	V			
12+35	0.2723	0.75	Q	V			
12+40	0.2776	0.77	Q	V			
12+45	0.2829	0.77	Q	V			
12+50	0.2883	0.79	Q	V			
12+55	0.2938	0.80	Q	V			
13+ 0	0.2994	0.80	Q	V			
13+ 5	0.3056	0.91	Q	V			
13+10	0.3122	0.95	Q	V			
13+15	0.3188	0.96	Q	V			
13+20	0.3254	0.96	Q	V			
13+25	0.3320	0.96	Q	V			
13+30	0.3385	0.96	Q	V			
13+35	0.3435	0.71	Q	V			
13+40	0.3477	0.62	Q	V			
13+45	0.3520	0.62	Q	V			
13+50	0.3563	0.62	Q	V			
13+55	0.3606	0.62	Q	V			
14+ 0	0.3649	0.62	Q	V			
14+ 5	0.3698	0.71	Q	V			
14+10	0.3749	0.75	Q	V			
14+15	0.3801	0.75	Q	V			
14+20	0.3850	0.72	Q	V			
14+25	0.3900	0.72	Q	V			
14+30	0.3949	0.72	Q	V			
14+35	0.3999	0.72	Q	V			
14+40	0.4048	0.72	Q	V			
14+45	0.4097	0.72	Q	V			
14+50	0.4145	0.70	Q	V			
14+55	0.4193	0.69	Q	V			
15+ 0	0.4240	0.69	Q	V			
15+ 5	0.4286	0.67	Q	V			
15+10	0.4331	0.66	Q	V			
15+15	0.4377	0.66	Q	V			
15+20	0.4421	0.64	Q	V			
15+25	0.4464	0.63	Q	V			
15+30	0.4507	0.63	Q	V			
15+35	0.4545	0.54	Q	V			
15+40	0.4580	0.51	Q	V			

15+45	0.4615	0.51	Q				V
15+50	0.4650	0.51	Q				V
15+55	0.4685	0.51	Q				V
16+ 0	0.4720	0.51	Q				V
16+ 5	0.4734	0.20	Q				V
16+10	0.4740	0.09	Q				V
16+15	0.4746	0.09	Q				V
16+20	0.4752	0.09	Q				V
16+25	0.4758	0.09	Q				V
16+30	0.4764	0.09	Q				V
16+35	0.4769	0.07	Q				V
16+40	0.4773	0.07	Q				V
16+45	0.4778	0.07	Q				V
16+50	0.4782	0.07	Q				V
16+55	0.4787	0.07	Q				V
17+ 0	0.4791	0.07	Q				V
17+ 5	0.4798	0.10	Q				V
17+10	0.4805	0.11	Q				V
17+15	0.4813	0.11	Q				V
17+20	0.4820	0.11	Q				V
17+25	0.4828	0.11	Q				V
17+30	0.4835	0.11	Q				V
17+35	0.4843	0.11	Q				V
17+40	0.4850	0.11	Q				V
17+45	0.4858	0.11	Q				V
17+50	0.4864	0.09	Q				V
17+55	0.4870	0.09	Q				V
18+ 0	0.4876	0.09	Q				V
18+ 5	0.4882	0.09	Q				V
18+10	0.4888	0.09	Q				V
18+15	0.4894	0.09	Q				V
18+20	0.4900	0.09	Q				V
18+25	0.4906	0.09	Q				V
18+30	0.4912	0.09	Q				V
18+35	0.4917	0.07	Q				V
18+40	0.4921	0.07	Q				V
18+45	0.4926	0.07	Q				V
18+50	0.4929	0.05	Q				V
18+55	0.4932	0.04	Q				V
19+ 0	0.4935	0.04	Q				V
19+ 5	0.4939	0.06	Q				V
19+10	0.4944	0.07	Q				V
19+15	0.4948	0.07	Q				V
19+20	0.4954	0.08	Q				V
19+25	0.4960	0.09	Q				V
19+30	0.4966	0.09	Q				V
19+35	0.4970	0.07	Q				V
19+40	0.4975	0.07	Q				V
19+45	0.4979	0.07	Q				V
19+50	0.4983	0.05	Q				V

19+55	0.4986	0.04	Q				V
20+ 0	0.4989	0.04	Q				V
20+ 5	0.4993	0.06	Q				V
20+10	0.4997	0.07	Q				V
20+15	0.5002	0.07	Q				V
20+20	0.5006	0.07	Q				V
20+25	0.5011	0.07	Q				V
20+30	0.5015	0.07	Q				V
20+35	0.5020	0.07	Q				V
20+40	0.5024	0.07	Q				V
20+45	0.5029	0.07	Q				V
20+50	0.5032	0.05	Q				V
20+55	0.5035	0.04	Q				V
21+ 0	0.5038	0.04	Q				V
21+ 5	0.5042	0.06	Q				V
21+10	0.5047	0.07	Q				V
21+15	0.5051	0.07	Q				V
21+20	0.5055	0.05	Q				V
21+25	0.5058	0.04	Q				V
21+30	0.5061	0.04	Q				V
21+35	0.5065	0.06	Q				V
21+40	0.5069	0.07	Q				V
21+45	0.5074	0.07	Q				V
21+50	0.5077	0.05	Q				V
21+55	0.5080	0.04	Q				V
22+ 0	0.5083	0.04	Q				V
22+ 5	0.5087	0.06	Q				V
22+10	0.5091	0.07	Q				V
22+15	0.5096	0.07	Q				V
22+20	0.5099	0.05	Q				V
22+25	0.5102	0.04	Q				V
22+30	0.5105	0.04	Q				V
22+35	0.5108	0.04	Q				V
22+40	0.5111	0.04	Q				V
22+45	0.5114	0.04	Q				V
22+50	0.5117	0.04	Q				V
22+55	0.5120	0.04	Q				V
23+ 0	0.5123	0.04	Q				V
23+ 5	0.5126	0.04	Q				V
23+10	0.5129	0.04	Q				V
23+15	0.5132	0.04	Q				V
23+20	0.5135	0.04	Q				V
23+25	0.5138	0.04	Q				V
23+30	0.5141	0.04	Q				V
23+35	0.5144	0.04	Q				V
23+40	0.5147	0.04	Q				V
23+45	0.5150	0.04	Q				V
23+50	0.5153	0.04	Q				V
23+55	0.5156	0.04	Q				V
24+ 0	0.5159	0.04	Q				V

24+ 5

0.5160

0.01 Q

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DMA 3 Proposed 2-Year

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH12.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-1HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	0.48	0.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.25	1.77

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.480(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 0.480(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	454.945	0.979
2	0.167	909.890	0.449
		Sum = 100.000	Sum= 1.428

1+ 5

0.0471

0.10 Q

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Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH32.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-3HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	0.80	1.13

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.95	2.76

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

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

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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

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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	2.5	5.0	7.5	10.0
0+ 5	0.0007	0.10	Q				
0+10	0.0016	0.14	Q				
0+15	0.0025	0.13	QV				
0+20	0.0036	0.15	QV				
0+25	0.0047	0.16	Q V				
0+30	0.0060	0.19	Q V				
0+35	0.0072	0.17	Q V				
0+40	0.0084	0.19	Q V				
0+45	0.0098	0.20	Q V				
0+50	0.0110	0.17	Q V				
0+55	0.0122	0.17	Q V				
1+ 0	0.0135	0.19	Q V				
1+ 5	0.0150	0.23	Q V				
1+10	0.0167	0.24	Q V				
1+15	0.0183	0.24	Q V				
1+20	0.0199	0.22	Q V				
1+25	0.0217	0.26	Q V				
1+30	0.0237	0.29	Q V				
1+35	0.0256	0.27	Q V				
1+40	0.0275	0.28	Q V				
1+45	0.0299	0.34	Q V				
1+50	0.0322	0.34	Q V				
1+55	0.0345	0.32	Q V				
2+ 0	0.0367	0.32	Q V				
2+ 5	0.0390	0.33	Q V				
2+10	0.0419	0.42	Q V				
2+15	0.0455	0.52	Q V				
2+20	0.0484	0.43	Q V				
2+25	0.0528	0.64	Q V				
2+30	0.0583	0.80	Q V				
2+35	0.0646	0.91	Q V				
2+40	0.0697	0.74	Q V				
2+45	0.0721	0.35	Q V				
2+50	0.0735	0.20	Q V				
2+55	0.0749	0.20	Q V				
3+ 0	0.0756	0.11	Q V				
3+ 5	0.0757	0.02	Q V				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH62.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-6HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.10	1.56

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	2.70	3.83

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.100(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.100(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.100(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

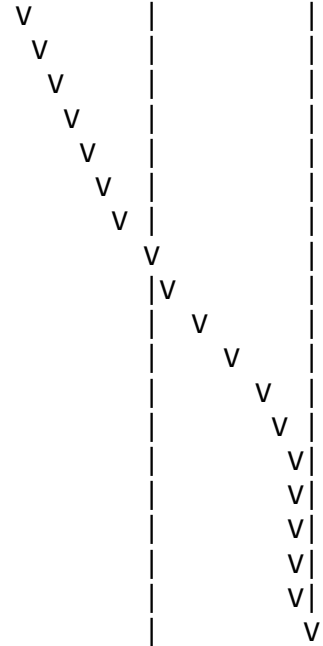
Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.066	(0.125)	0.014	0.052
2	0.17	0.60	0.079	(0.125)	0.016	0.063
3	0.25	0.60	0.079	(0.125)	0.016	0.063
4	0.33	0.60	0.079	(0.125)	0.016	0.063
5	0.42	0.60	0.079	(0.125)	0.016	0.063
6	0.50	0.70	0.092	(0.125)	0.019	0.073
7	0.58	0.70	0.092	(0.125)	0.019	0.073
8	0.67	0.70	0.092	(0.125)	0.019	0.073
9	0.75	0.70	0.092	(0.125)	0.019	0.073
10	0.83	0.70	0.092	(0.125)	0.019	0.073
11	0.92	0.70	0.092	(0.125)	0.019	0.073
12	1.00	0.80	0.106	(0.125)	0.022	0.084
13	1.08	0.80	0.106	(0.125)	0.022	0.084
14	1.17	0.80	0.106	(0.125)	0.022	0.084
15	1.25	0.80	0.106	(0.125)	0.022	0.084
16	1.33	0.80	0.106	(0.125)	0.022	0.084
17	1.42	0.80	0.106	(0.125)	0.022	0.084
18	1.50	0.80	0.106	(0.125)	0.022	0.084
19	1.58	0.80	0.106	(0.125)	0.022	0.084
20	1.67	0.80	0.106	(0.125)	0.022	0.084
21	1.75	0.80	0.106	(0.125)	0.022	0.084
22	1.83	0.80	0.106	(0.125)	0.022	0.084
23	1.92	0.80	0.106	(0.125)	0.022	0.084
24	2.00	0.90	0.119	(0.125)	0.024	0.094
25	2.08	0.80	0.106	(0.125)	0.022	0.084
26	2.17	0.90	0.119	(0.125)	0.024	0.094
27	2.25	0.90	0.119	(0.125)	0.024	0.094
28	2.33	0.90	0.119	(0.125)	0.024	0.094
29	2.42	0.90	0.119	(0.125)	0.024	0.094
30	2.50	0.90	0.119	(0.125)	0.024	0.094
31	2.58	0.90	0.119	(0.125)	0.024	0.094
32	2.67	0.90	0.119	(0.125)	0.024	0.094
33	2.75	1.00	0.132	(0.125)	0.027	0.105
34	2.83	1.00	0.132	(0.125)	0.027	0.105
35	2.92	1.00	0.132	(0.125)	0.027	0.105
36	3.00	1.00	0.132	(0.125)	0.027	0.105
37	3.08	1.00	0.132	(0.125)	0.027	0.105
38	3.17	1.10	0.145	(0.125)	0.030	0.115
39	3.25	1.10	0.145	(0.125)	0.030	0.115
40	3.33	1.10	0.145	(0.125)	0.030	0.115
41	3.42	1.20	0.158	(0.125)	0.032	0.126
42	3.50	1.30	0.172	(0.125)	0.035	0.136
43	3.58	1.40	0.185	(0.125)	0.038	0.147
44	3.67	1.40	0.185	(0.125)	0.038	0.147
45	3.75	1.50	0.198	(0.125)	0.041	0.157
46	3.83	1.50	0.198	(0.125)	0.041	0.157
47	3.92	1.60	0.211	(0.125)	0.043	0.168

0+25	0.0028	0.09	QV				
0+30	0.0035	0.10	QV				
0+35	0.0042	0.10	QV				
0+40	0.0049	0.10	QV				
0+45	0.0057	0.10	Q V				
0+50	0.0064	0.10	Q V				
0+55	0.0071	0.10	Q V				
1+ 0	0.0079	0.12	Q V				
1+ 5	0.0087	0.12	Q V				
1+10	0.0096	0.12	Q V				
1+15	0.0104	0.12	Q V				
1+20	0.0112	0.12	Q V				
1+25	0.0120	0.12	Q V				
1+30	0.0129	0.12	Q V				
1+35	0.0137	0.12	Q V				
1+40	0.0145	0.12	Q V				
1+45	0.0153	0.12	Q V				
1+50	0.0162	0.12	Q V				
1+55	0.0170	0.12	Q V				
2+ 0	0.0179	0.13	Q V				
2+ 5	0.0187	0.12	Q V				
2+10	0.0196	0.13	Q V				
2+15	0.0206	0.13	Q V				
2+20	0.0215	0.13	Q V				
2+25	0.0224	0.13	Q V				
2+30	0.0234	0.13	Q V				
2+35	0.0243	0.13	Q V				
2+40	0.0252	0.13	Q V				
2+45	0.0262	0.15	Q V				
2+50	0.0272	0.15	Q V				
2+55	0.0283	0.15	Q V				
3+ 0	0.0293	0.15	Q V				
3+ 5	0.0303	0.15	Q V				
3+10	0.0314	0.16	Q V				
3+15	0.0326	0.16	Q V				
3+20	0.0337	0.16	Q V				
3+25	0.0349	0.18	Q V				
3+30	0.0362	0.19	Q V				
3+35	0.0376	0.21	Q V				
3+40	0.0391	0.21	Q V				
3+45	0.0406	0.22	Q V				
3+50	0.0422	0.22	Q V				
3+55	0.0438	0.24	Q V				
4+ 0	0.0454	0.24	Q V				
4+ 5	0.0472	0.25	Q V				
4+10	0.0490	0.27	Q V				
4+15	0.0509	0.28	Q V				
4+20	0.0529	0.30	Q V				
4+25	0.0551	0.31	Q V				
4+30	0.0572	0.31	Q V				

4+35	0.0595	0.33	Q						
4+40	0.0618	0.34	Q						
4+45	0.0643	0.36	Q						
4+50	0.0668	0.36	Q						
4+55	0.0693	0.37	Q						
5+ 0	0.0720	0.39	Q						
5+ 5	0.0750	0.44	Q						
5+10	0.0785	0.52	Q						
5+15	0.0825	0.57	Q						
5+20	0.0867	0.62	Q						
5+25	0.0914	0.68	Q						
5+30	0.0971	0.82	Q						
5+35	0.1003	0.47	Q						
5+40	0.1016	0.18	Q						
5+45	0.1023	0.10	Q						
5+50	0.1029	0.08	Q						
5+55	0.1032	0.05	Q						
6+ 0	0.1035	0.03	Q						
6+ 5	0.1035	0.01	Q						



Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH242.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 2YR-24HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	1.90	2.69

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	4.80	6.80

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 1.900(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.900(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.015	(0.222)	0.003	0.012
2	0.17	0.07	0.015	(0.221)	0.003	0.012
3	0.25	0.07	0.015	(0.220)	0.003	0.012
4	0.33	0.10	0.023	(0.219)	0.005	0.018
5	0.42	0.10	0.023	(0.218)	0.005	0.018
6	0.50	0.10	0.023	(0.217)	0.005	0.018
7	0.58	0.10	0.023	(0.217)	0.005	0.018
8	0.67	0.10	0.023	(0.216)	0.005	0.018
9	0.75	0.10	0.023	(0.215)	0.005	0.018
10	0.83	0.13	0.030	(0.214)	0.006	0.024
11	0.92	0.13	0.030	(0.213)	0.006	0.024
12	1.00	0.13	0.030	(0.212)	0.006	0.024
13	1.08	0.10	0.023	(0.212)	0.005	0.018
14	1.17	0.10	0.023	(0.211)	0.005	0.018
15	1.25	0.10	0.023	(0.210)	0.005	0.018
16	1.33	0.10	0.023	(0.209)	0.005	0.018
17	1.42	0.10	0.023	(0.208)	0.005	0.018
18	1.50	0.10	0.023	(0.207)	0.005	0.018
19	1.58	0.10	0.023	(0.207)	0.005	0.018
20	1.67	0.10	0.023	(0.206)	0.005	0.018
21	1.75	0.10	0.023	(0.205)	0.005	0.018
22	1.83	0.13	0.030	(0.204)	0.006	0.024
23	1.92	0.13	0.030	(0.203)	0.006	0.024
24	2.00	0.13	0.030	(0.202)	0.006	0.024
25	2.08	0.13	0.030	(0.202)	0.006	0.024
26	2.17	0.13	0.030	(0.201)	0.006	0.024
27	2.25	0.13	0.030	(0.200)	0.006	0.024
28	2.33	0.13	0.030	(0.199)	0.006	0.024
29	2.42	0.13	0.030	(0.198)	0.006	0.024
30	2.50	0.13	0.030	(0.198)	0.006	0.024
31	2.58	0.17	0.038	(0.197)	0.008	0.030
32	2.67	0.17	0.038	(0.196)	0.008	0.030
33	2.75	0.17	0.038	(0.195)	0.008	0.030
34	2.83	0.17	0.038	(0.194)	0.008	0.030
35	2.92	0.17	0.038	(0.193)	0.008	0.030
36	3.00	0.17	0.038	(0.193)	0.008	0.030
37	3.08	0.17	0.038	(0.192)	0.008	0.030
38	3.17	0.17	0.038	(0.191)	0.008	0.030
39	3.25	0.17	0.038	(0.190)	0.008	0.030
40	3.33	0.17	0.038	(0.190)	0.008	0.030
41	3.42	0.17	0.038	(0.189)	0.008	0.030
42	3.50	0.17	0.038	(0.188)	0.008	0.030
43	3.58	0.17	0.038	(0.187)	0.008	0.030
44	3.67	0.17	0.038	(0.186)	0.008	0.030
45	3.75	0.17	0.038	(0.186)	0.008	0.030
46	3.83	0.20	0.046	(0.185)	0.009	0.036
47	3.92	0.20	0.046	(0.184)	0.009	0.036

48	4.00	0.20	0.046	(0.183)	0.009	0.036
49	4.08	0.20	0.046	(0.182)	0.009	0.036
50	4.17	0.20	0.046	(0.182)	0.009	0.036
51	4.25	0.20	0.046	(0.181)	0.009	0.036
52	4.33	0.23	0.053	(0.180)	0.011	0.042
53	4.42	0.23	0.053	(0.179)	0.011	0.042
54	4.50	0.23	0.053	(0.179)	0.011	0.042
55	4.58	0.23	0.053	(0.178)	0.011	0.042
56	4.67	0.23	0.053	(0.177)	0.011	0.042
57	4.75	0.23	0.053	(0.176)	0.011	0.042
58	4.83	0.27	0.061	(0.176)	0.012	0.048
59	4.92	0.27	0.061	(0.175)	0.012	0.048
60	5.00	0.27	0.061	(0.174)	0.012	0.048
61	5.08	0.20	0.046	(0.173)	0.009	0.036
62	5.17	0.20	0.046	(0.173)	0.009	0.036
63	5.25	0.20	0.046	(0.172)	0.009	0.036
64	5.33	0.23	0.053	(0.171)	0.011	0.042
65	5.42	0.23	0.053	(0.170)	0.011	0.042
66	5.50	0.23	0.053	(0.170)	0.011	0.042
67	5.58	0.27	0.061	(0.169)	0.012	0.048
68	5.67	0.27	0.061	(0.168)	0.012	0.048
69	5.75	0.27	0.061	(0.167)	0.012	0.048
70	5.83	0.27	0.061	(0.167)	0.012	0.048
71	5.92	0.27	0.061	(0.166)	0.012	0.048
72	6.00	0.27	0.061	(0.165)	0.012	0.048
73	6.08	0.30	0.068	(0.164)	0.014	0.054
74	6.17	0.30	0.068	(0.164)	0.014	0.054
75	6.25	0.30	0.068	(0.163)	0.014	0.054
76	6.33	0.30	0.068	(0.162)	0.014	0.054
77	6.42	0.30	0.068	(0.161)	0.014	0.054
78	6.50	0.30	0.068	(0.161)	0.014	0.054
79	6.58	0.33	0.076	(0.160)	0.016	0.060
80	6.67	0.33	0.076	(0.159)	0.016	0.060
81	6.75	0.33	0.076	(0.159)	0.016	0.060
82	6.83	0.33	0.076	(0.158)	0.016	0.060
83	6.92	0.33	0.076	(0.157)	0.016	0.060
84	7.00	0.33	0.076	(0.156)	0.016	0.060
85	7.08	0.33	0.076	(0.156)	0.016	0.060
86	7.17	0.33	0.076	(0.155)	0.016	0.060
87	7.25	0.33	0.076	(0.154)	0.016	0.060
88	7.33	0.37	0.084	(0.154)	0.017	0.066
89	7.42	0.37	0.084	(0.153)	0.017	0.066
90	7.50	0.37	0.084	(0.152)	0.017	0.066
91	7.58	0.40	0.091	(0.151)	0.019	0.073
92	7.67	0.40	0.091	(0.151)	0.019	0.073
93	7.75	0.40	0.091	(0.150)	0.019	0.073
94	7.83	0.43	0.099	(0.149)	0.020	0.079
95	7.92	0.43	0.099	(0.149)	0.020	0.079
96	8.00	0.43	0.099	(0.148)	0.020	0.079
97	8.08	0.50	0.114	(0.147)	0.023	0.091

98	8.17	0.50	0.114	(0.147)	0.023	0.091
99	8.25	0.50	0.114	(0.146)	0.023	0.091
100	8.33	0.50	0.114	(0.145)	0.023	0.091
101	8.42	0.50	0.114	(0.145)	0.023	0.091
102	8.50	0.50	0.114	(0.144)	0.023	0.091
103	8.58	0.53	0.122	(0.143)	0.025	0.097
104	8.67	0.53	0.122	(0.143)	0.025	0.097
105	8.75	0.53	0.122	(0.142)	0.025	0.097
106	8.83	0.57	0.129	(0.141)	0.026	0.103
107	8.92	0.57	0.129	(0.141)	0.026	0.103
108	9.00	0.57	0.129	(0.140)	0.026	0.103
109	9.08	0.63	0.144	(0.139)	0.030	0.115
110	9.17	0.63	0.144	(0.139)	0.030	0.115
111	9.25	0.63	0.144	(0.138)	0.030	0.115
112	9.33	0.67	0.152	(0.137)	0.031	0.121
113	9.42	0.67	0.152	(0.137)	0.031	0.121
114	9.50	0.67	0.152	(0.136)	0.031	0.121
115	9.58	0.70	0.160	(0.135)	0.033	0.127
116	9.67	0.70	0.160	(0.135)	0.033	0.127
117	9.75	0.70	0.160	(0.134)	0.033	0.127
118	9.83	0.73	0.167	(0.133)	0.034	0.133
119	9.92	0.73	0.167	(0.133)	0.034	0.133
120	10.00	0.73	0.167	(0.132)	0.034	0.133
121	10.08	0.50	0.114	(0.131)	0.023	0.091
122	10.17	0.50	0.114	(0.131)	0.023	0.091
123	10.25	0.50	0.114	(0.130)	0.023	0.091
124	10.33	0.50	0.114	(0.130)	0.023	0.091
125	10.42	0.50	0.114	(0.129)	0.023	0.091
126	10.50	0.50	0.114	(0.128)	0.023	0.091
127	10.58	0.67	0.152	(0.128)	0.031	0.121
128	10.67	0.67	0.152	(0.127)	0.031	0.121
129	10.75	0.67	0.152	(0.126)	0.031	0.121
130	10.83	0.67	0.152	(0.126)	0.031	0.121
131	10.92	0.67	0.152	(0.125)	0.031	0.121
132	11.00	0.67	0.152	(0.125)	0.031	0.121
133	11.08	0.63	0.144	(0.124)	0.030	0.115
134	11.17	0.63	0.144	(0.123)	0.030	0.115
135	11.25	0.63	0.144	(0.123)	0.030	0.115
136	11.33	0.63	0.144	(0.122)	0.030	0.115
137	11.42	0.63	0.144	(0.122)	0.030	0.115
138	11.50	0.63	0.144	(0.121)	0.030	0.115
139	11.58	0.57	0.129	(0.120)	0.026	0.103
140	11.67	0.57	0.129	(0.120)	0.026	0.103
141	11.75	0.57	0.129	(0.119)	0.026	0.103
142	11.83	0.60	0.137	(0.119)	0.028	0.109
143	11.92	0.60	0.137	(0.118)	0.028	0.109
144	12.00	0.60	0.137	(0.117)	0.028	0.109
145	12.08	0.83	0.190	(0.117)	0.039	0.151
146	12.17	0.83	0.190	(0.116)	0.039	0.151
147	12.25	0.83	0.190	(0.116)	0.039	0.151

148	12.33	0.87	0.198	(0.115)	0.041	0.157
149	12.42	0.87	0.198	(0.114)	0.041	0.157
150	12.50	0.87	0.198	(0.114)	0.041	0.157
151	12.58	0.93	0.213	(0.113)	0.044	0.169
152	12.67	0.93	0.213	(0.113)	0.044	0.169
153	12.75	0.93	0.213	(0.112)	0.044	0.169
154	12.83	0.97	0.220	(0.112)	0.045	0.175
155	12.92	0.97	0.220	(0.111)	0.045	0.175
156	13.00	0.97	0.220	(0.110)	0.045	0.175
157	13.08	1.13	0.258	(0.110)	0.053	0.205
158	13.17	1.13	0.258	(0.109)	0.053	0.205
159	13.25	1.13	0.258	(0.109)	0.053	0.205
160	13.33	1.13	0.258	(0.108)	0.053	0.205
161	13.42	1.13	0.258	(0.108)	0.053	0.205
162	13.50	1.13	0.258	(0.107)	0.053	0.205
163	13.58	0.77	0.175	(0.107)	0.036	0.139
164	13.67	0.77	0.175	(0.106)	0.036	0.139
165	13.75	0.77	0.175	(0.105)	0.036	0.139
166	13.83	0.77	0.175	(0.105)	0.036	0.139
167	13.92	0.77	0.175	(0.104)	0.036	0.139
168	14.00	0.77	0.175	(0.104)	0.036	0.139
169	14.08	0.90	0.205	(0.103)	0.042	0.163
170	14.17	0.90	0.205	(0.103)	0.042	0.163
171	14.25	0.90	0.205	(0.102)	0.042	0.163
172	14.33	0.87	0.198	(0.102)	0.041	0.157
173	14.42	0.87	0.198	(0.101)	0.041	0.157
174	14.50	0.87	0.198	(0.101)	0.041	0.157
175	14.58	0.87	0.198	(0.100)	0.041	0.157
176	14.67	0.87	0.198	(0.100)	0.041	0.157
177	14.75	0.87	0.198	(0.099)	0.041	0.157
178	14.83	0.83	0.190	(0.099)	0.039	0.151
179	14.92	0.83	0.190	(0.098)	0.039	0.151
180	15.00	0.83	0.190	(0.098)	0.039	0.151
181	15.08	0.80	0.182	(0.097)	0.037	0.145
182	15.17	0.80	0.182	(0.097)	0.037	0.145
183	15.25	0.80	0.182	(0.096)	0.037	0.145
184	15.33	0.77	0.175	(0.096)	0.036	0.139
185	15.42	0.77	0.175	(0.095)	0.036	0.139
186	15.50	0.77	0.175	(0.095)	0.036	0.139
187	15.58	0.63	0.144	(0.094)	0.030	0.115
188	15.67	0.63	0.144	(0.094)	0.030	0.115
189	15.75	0.63	0.144	(0.093)	0.030	0.115
190	15.83	0.63	0.144	(0.093)	0.030	0.115
191	15.92	0.63	0.144	(0.092)	0.030	0.115
192	16.00	0.63	0.144	(0.092)	0.030	0.115
193	16.08	0.13	0.030	(0.091)	0.006	0.024
194	16.17	0.13	0.030	(0.091)	0.006	0.024
195	16.25	0.13	0.030	(0.090)	0.006	0.024
196	16.33	0.13	0.030	(0.090)	0.006	0.024
197	16.42	0.13	0.030	(0.090)	0.006	0.024

198	16.50	0.13	0.030	(0.089)	0.006	0.024
199	16.58	0.10	0.023	(0.089)	0.005	0.018
200	16.67	0.10	0.023	(0.088)	0.005	0.018
201	16.75	0.10	0.023	(0.088)	0.005	0.018
202	16.83	0.10	0.023	(0.087)	0.005	0.018
203	16.92	0.10	0.023	(0.087)	0.005	0.018
204	17.00	0.10	0.023	(0.086)	0.005	0.018
205	17.08	0.17	0.038	(0.086)	0.008	0.030
206	17.17	0.17	0.038	(0.086)	0.008	0.030
207	17.25	0.17	0.038	(0.085)	0.008	0.030
208	17.33	0.17	0.038	(0.085)	0.008	0.030
209	17.42	0.17	0.038	(0.084)	0.008	0.030
210	17.50	0.17	0.038	(0.084)	0.008	0.030
211	17.58	0.17	0.038	(0.083)	0.008	0.030
212	17.67	0.17	0.038	(0.083)	0.008	0.030
213	17.75	0.17	0.038	(0.083)	0.008	0.030
214	17.83	0.13	0.030	(0.082)	0.006	0.024
215	17.92	0.13	0.030	(0.082)	0.006	0.024
216	18.00	0.13	0.030	(0.081)	0.006	0.024
217	18.08	0.13	0.030	(0.081)	0.006	0.024
218	18.17	0.13	0.030	(0.081)	0.006	0.024
219	18.25	0.13	0.030	(0.080)	0.006	0.024
220	18.33	0.13	0.030	(0.080)	0.006	0.024
221	18.42	0.13	0.030	(0.079)	0.006	0.024
222	18.50	0.13	0.030	(0.079)	0.006	0.024
223	18.58	0.10	0.023	(0.079)	0.005	0.018
224	18.67	0.10	0.023	(0.078)	0.005	0.018
225	18.75	0.10	0.023	(0.078)	0.005	0.018
226	18.83	0.07	0.015	(0.077)	0.003	0.012
227	18.92	0.07	0.015	(0.077)	0.003	0.012
228	19.00	0.07	0.015	(0.077)	0.003	0.012
229	19.08	0.10	0.023	(0.076)	0.005	0.018
230	19.17	0.10	0.023	(0.076)	0.005	0.018
231	19.25	0.10	0.023	(0.076)	0.005	0.018
232	19.33	0.13	0.030	(0.075)	0.006	0.024
233	19.42	0.13	0.030	(0.075)	0.006	0.024
234	19.50	0.13	0.030	(0.075)	0.006	0.024
235	19.58	0.10	0.023	(0.074)	0.005	0.018
236	19.67	0.10	0.023	(0.074)	0.005	0.018
237	19.75	0.10	0.023	(0.074)	0.005	0.018
238	19.83	0.07	0.015	(0.073)	0.003	0.012
239	19.92	0.07	0.015	(0.073)	0.003	0.012
240	20.00	0.07	0.015	(0.073)	0.003	0.012
241	20.08	0.10	0.023	(0.072)	0.005	0.018
242	20.17	0.10	0.023	(0.072)	0.005	0.018
243	20.25	0.10	0.023	(0.072)	0.005	0.018
244	20.33	0.10	0.023	(0.071)	0.005	0.018
245	20.42	0.10	0.023	(0.071)	0.005	0.018
246	20.50	0.10	0.023	(0.071)	0.005	0.018
247	20.58	0.10	0.023	(0.070)	0.005	0.018

 Peak flow rate of this hydrograph = 0.294(CFS)

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

 Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0002	0.02	Q				
0+15	0.0003	0.02	Q				
0+20	0.0005	0.02	Q				
0+25	0.0007	0.03	Q				
0+30	0.0008	0.03	Q				
0+35	0.0010	0.03	Q				
0+40	0.0012	0.03	Q				
0+45	0.0014	0.03	Q				
0+50	0.0016	0.03	Q				
0+55	0.0018	0.03	Q				
1+ 0	0.0021	0.03	Q				
1+ 5	0.0023	0.03	Q				
1+10	0.0024	0.03	Q				
1+15	0.0026	0.03	Q				
1+20	0.0028	0.03	Q				
1+25	0.0030	0.03	Q				
1+30	0.0032	0.03	Q				
1+35	0.0033	0.03	Q				
1+40	0.0035	0.03	Q				
1+45	0.0037	0.03	Q				
1+50	0.0039	0.03	Q				
1+55	0.0041	0.03	Q				
2+ 0	0.0044	0.03	Q				
2+ 5	0.0046	0.03	QV				
2+10	0.0049	0.03	QV				
2+15	0.0051	0.03	QV				
2+20	0.0053	0.03	QV				
2+25	0.0056	0.03	QV				
2+30	0.0058	0.03	QV				
2+35	0.0061	0.04	QV				
2+40	0.0064	0.04	QV				
2+45	0.0067	0.04	QV				
2+50	0.0070	0.04	QV				
2+55	0.0073	0.04	QV				
3+ 0	0.0076	0.04	QV				
3+ 5	0.0079	0.04	QV				
3+10	0.0082	0.04	QV				

3+15	0.0085	0.04	QV
3+20	0.0088	0.04	QV
3+25	0.0091	0.04	Q V
3+30	0.0094	0.04	Q V
3+35	0.0097	0.04	Q V
3+40	0.0100	0.04	Q V
3+45	0.0103	0.04	Q V
3+50	0.0106	0.05	Q V
3+55	0.0109	0.05	Q V
4+ 0	0.0113	0.05	Q V
4+ 5	0.0117	0.05	Q V
4+10	0.0120	0.05	Q V
4+15	0.0124	0.05	Q V
4+20	0.0128	0.06	Q V
4+25	0.0132	0.06	Q V
4+30	0.0136	0.06	Q V
4+35	0.0140	0.06	Q V
4+40	0.0144	0.06	Q V
4+45	0.0149	0.06	Q V
4+50	0.0153	0.07	Q V
4+55	0.0158	0.07	Q V
5+ 0	0.0163	0.07	Q V
5+ 5	0.0167	0.06	Q V
5+10	0.0170	0.05	Q V
5+15	0.0174	0.05	Q V
5+20	0.0178	0.06	Q V
5+25	0.0182	0.06	Q V
5+30	0.0186	0.06	Q V
5+35	0.0191	0.07	Q V
5+40	0.0195	0.07	Q V
5+45	0.0200	0.07	Q V
5+50	0.0205	0.07	Q V
5+55	0.0210	0.07	Q V
6+ 0	0.0214	0.07	Q V
6+ 5	0.0219	0.07	Q V
6+10	0.0225	0.08	Q V
6+15	0.0230	0.08	Q V
6+20	0.0236	0.08	Q V
6+25	0.0241	0.08	Q V
6+30	0.0246	0.08	Q V
6+35	0.0252	0.08	Q V
6+40	0.0258	0.09	Q V
6+45	0.0264	0.09	Q V
6+50	0.0270	0.09	Q V
6+55	0.0276	0.09	Q V
7+ 0	0.0282	0.09	Q V
7+ 5	0.0288	0.09	Q V
7+10	0.0294	0.09	Q V
7+15	0.0300	0.09	Q V
7+20	0.0306	0.09	Q V

7+25	0.0312	0.09	Q	V				
7+30	0.0319	0.09	Q	V				
7+35	0.0326	0.10	Q	V				
7+40	0.0333	0.10	Q	V				
7+45	0.0340	0.10	Q	V				
7+50	0.0348	0.11	Q	V				
7+55	0.0355	0.11	Q	V				
8+ 0	0.0363	0.11	Q	V				
8+ 5	0.0372	0.12	Q	V				
8+10	0.0381	0.13	Q	V				
8+15	0.0390	0.13	Q	V				
8+20	0.0399	0.13	Q	V				
8+25	0.0407	0.13	Q	V				
8+30	0.0416	0.13	Q	V				
8+35	0.0426	0.14	Q	V				
8+40	0.0435	0.14	Q	V				
8+45	0.0445	0.14	Q	V				
8+50	0.0455	0.14	Q	V				
8+55	0.0465	0.15	Q	V				
9+ 0	0.0475	0.15	Q	V				
9+ 5	0.0486	0.16	Q	V				
9+10	0.0497	0.16	Q	V				
9+15	0.0508	0.16	Q	V				
9+20	0.0520	0.17	Q	V				
9+25	0.0532	0.17	Q	V				
9+30	0.0544	0.17	Q	V				
9+35	0.0556	0.18	Q	V				
9+40	0.0569	0.18	Q	V				
9+45	0.0581	0.18	Q	V				
9+50	0.0594	0.19	Q	V				
9+55	0.0607	0.19	Q	V				
10+ 0	0.0620	0.19	Q	V				
10+ 5	0.0630	0.15	Q	V				
10+10	0.0639	0.13	Q	V				
10+15	0.0648	0.13	Q	V				
10+20	0.0657	0.13	Q	V				
10+25	0.0666	0.13	Q	V				
10+30	0.0675	0.13	Q	V				
10+35	0.0686	0.16	Q	V				
10+40	0.0698	0.17	Q	V				
10+45	0.0710	0.17	Q	V				
10+50	0.0722	0.17	Q	V				
10+55	0.0733	0.17	Q	V				
11+ 0	0.0745	0.17	Q	V				
11+ 5	0.0757	0.17	Q	V				
11+10	0.0768	0.16	Q	V				
11+15	0.0779	0.16	Q	V				
11+20	0.0791	0.16	Q	V				
11+25	0.0802	0.16	Q	V				
11+30	0.0813	0.16	Q	V				

11+35	0.0824	0.15	Q	V			
11+40	0.0834	0.15	Q	V			
11+45	0.0844	0.15	Q	V			
11+50	0.0855	0.15	Q	V			
11+55	0.0865	0.16	Q	V			
12+ 0	0.0876	0.16	Q	V			
12+ 5	0.0890	0.20	Q	V			
12+10	0.0904	0.22	Q	V			
12+15	0.0919	0.22	Q	V			
12+20	0.0935	0.22	Q	V			
12+25	0.0950	0.22	Q	V			
12+30	0.0965	0.22	Q	V			
12+35	0.0982	0.24	Q	V			
12+40	0.0998	0.24	Q	V			
12+45	0.1015	0.24	Q	V			
12+50	0.1032	0.25	Q	V			
12+55	0.1049	0.25	Q	V			
13+ 0	0.1067	0.25	Q	V			
13+ 5	0.1086	0.28	Q	V			
13+10	0.1106	0.29	Q	V			
13+15	0.1126	0.29	Q	V			
13+20	0.1146	0.29	Q	V			
13+25	0.1167	0.29	Q	V			
13+30	0.1187	0.29	Q	V			
13+35	0.1203	0.23	Q	V			
13+40	0.1216	0.20	Q	V			
13+45	0.1230	0.20	Q	V			
13+50	0.1244	0.20	Q	V			
13+55	0.1257	0.20	Q	V			
14+ 0	0.1271	0.20	Q	V			
14+ 5	0.1286	0.22	Q	V			
14+10	0.1302	0.23	Q	V			
14+15	0.1318	0.23	Q	V			
14+20	0.1334	0.23	Q	V			
14+25	0.1350	0.22	Q	V			
14+30	0.1365	0.22	Q	V			
14+35	0.1380	0.22	Q	V			
14+40	0.1396	0.22	Q	V			
14+45	0.1411	0.22	Q	V			
14+50	0.1426	0.22	Q	V			
14+55	0.1441	0.22	Q	V			
15+ 0	0.1456	0.22	Q	V			
15+ 5	0.1471	0.21	Q	V			
15+10	0.1485	0.21	Q	V			
15+15	0.1499	0.21	Q	V			
15+20	0.1513	0.20	Q	V			
15+25	0.1527	0.20	Q	V			
15+30	0.1540	0.20	Q	V			
15+35	0.1552	0.17	Q	V			
15+40	0.1564	0.16	Q	V			

15+45	0.1575	0.16	Q				V
15+50	0.1586	0.16	Q				V
15+55	0.1598	0.16	Q				V
16+ 0	0.1609	0.16	Q				V
16+ 5	0.1614	0.08	Q				V
16+10	0.1616	0.03	Q				V
16+15	0.1619	0.03	Q				V
16+20	0.1621	0.03	Q				V
16+25	0.1624	0.03	Q				V
16+30	0.1626	0.03	Q				V
16+35	0.1628	0.03	Q				V
16+40	0.1630	0.03	Q				V
16+45	0.1631	0.03	Q				V
16+50	0.1633	0.03	Q				V
16+55	0.1635	0.03	Q				V
17+ 0	0.1637	0.03	Q				V
17+ 5	0.1639	0.04	Q				V
17+10	0.1642	0.04	Q				V
17+15	0.1645	0.04	Q				V
17+20	0.1648	0.04	Q				V
17+25	0.1651	0.04	Q				V
17+30	0.1654	0.04	Q				V
17+35	0.1657	0.04	Q				V
17+40	0.1660	0.04	Q				V
17+45	0.1663	0.04	Q				V
17+50	0.1666	0.04	Q				V
17+55	0.1668	0.03	Q				V
18+ 0	0.1671	0.03	Q				V
18+ 5	0.1673	0.03	Q				V
18+10	0.1675	0.03	Q				V
18+15	0.1678	0.03	Q				V
18+20	0.1680	0.03	Q				V
18+25	0.1682	0.03	Q				V
18+30	0.1685	0.03	Q				V
18+35	0.1687	0.03	Q				V
18+40	0.1689	0.03	Q				V
18+45	0.1690	0.03	Q				V
18+50	0.1692	0.02	Q				V
18+55	0.1693	0.02	Q				V
19+ 0	0.1694	0.02	Q				V
19+ 5	0.1696	0.02	Q				V
19+10	0.1697	0.03	Q				V
19+15	0.1699	0.03	Q				V
19+20	0.1701	0.03	Q				V
19+25	0.1704	0.03	Q				V
19+30	0.1706	0.03	Q				V
19+35	0.1708	0.03	Q				V
19+40	0.1710	0.03	Q				V
19+45	0.1712	0.03	Q				V
19+50	0.1713	0.02	Q				V

19+55	0.1714	0.02	Q				V
20+ 0	0.1715	0.02	Q				V
20+ 5	0.1717	0.02	Q				V
20+10	0.1719	0.03	Q				V
20+15	0.1721	0.03	Q				V
20+20	0.1722	0.03	Q				V
20+25	0.1724	0.03	Q				V
20+30	0.1726	0.03	Q				V
20+35	0.1728	0.03	Q				V
20+40	0.1730	0.03	Q				V
20+45	0.1731	0.03	Q				V
20+50	0.1733	0.02	Q				V
20+55	0.1734	0.02	Q				V
21+ 0	0.1735	0.02	Q				V
21+ 5	0.1737	0.02	Q				V
21+10	0.1738	0.03	Q				V
21+15	0.1740	0.03	Q				V
21+20	0.1742	0.02	Q				V
21+25	0.1743	0.02	Q				V
21+30	0.1744	0.02	Q				V
21+35	0.1746	0.02	Q				V
21+40	0.1747	0.03	Q				V
21+45	0.1749	0.03	Q				V
21+50	0.1751	0.02	Q				V
21+55	0.1752	0.02	Q				V
22+ 0	0.1753	0.02	Q				V
22+ 5	0.1755	0.02	Q				V
22+10	0.1756	0.03	Q				V
22+15	0.1758	0.03	Q				V
22+20	0.1759	0.02	Q				V
22+25	0.1761	0.02	Q				V
22+30	0.1762	0.02	Q				V
22+35	0.1763	0.02	Q				V
22+40	0.1764	0.02	Q				V
22+45	0.1765	0.02	Q				V
22+50	0.1767	0.02	Q				V
22+55	0.1768	0.02	Q				V
23+ 0	0.1769	0.02	Q				V
23+ 5	0.1770	0.02	Q				V
23+10	0.1771	0.02	Q				V
23+15	0.1773	0.02	Q				V
23+20	0.1774	0.02	Q				V
23+25	0.1775	0.02	Q				V
23+30	0.1776	0.02	Q				V
23+35	0.1777	0.02	Q				V
23+40	0.1779	0.02	Q				V
23+45	0.1780	0.02	Q				V
23+50	0.1781	0.02	Q				V
23+55	0.1782	0.02	Q				V
24+ 0	0.1783	0.02	Q				V

24+ 5

0.1784

0.01 Q

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DMA 3 Proposed 5-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-1HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	0.48	0.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.25	1.77

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.660(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 0.660(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	454.945	0.979
2	0.167	909.890	0.449
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	4.40	0.349	(0.125)	0.071	0.277
2	0.17	4.50	0.357	(0.125)	0.073	0.283
3	0.25	5.40	0.428	(0.125)	0.088	0.340
4	0.33	5.40	0.428	(0.125)	0.088	0.340
5	0.42	5.70	0.452	(0.125)	0.093	0.359
6	0.50	6.40	0.507	(0.125)	0.104	0.403
7	0.58	7.90	0.626	0.125	(0.128)	0.501
8	0.67	9.10	0.721	0.125	(0.148)	0.596
9	0.75	12.80	1.014	0.125	(0.208)	0.889
10	0.83	25.60	2.029	0.125	(0.416)	1.904
11	0.92	7.90	0.626	0.125	(0.128)	0.501
12	1.00	4.90	0.388	(0.125)	0.080	0.309

(Loss Rate Not Used)

Sum = 100.0 Sum = 6.7

Flood volume = Effective rainfall 0.56(In)
times area 1.4(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.10(In)
Total soil loss = 0.012(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 2873.0 Cubic Feet
Total soil loss = 523.6 Cubic Feet

Peak flow rate of this hydrograph = 2.264(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0019	0.27	Q				
0+10	0.0046	0.40	QV				
0+15	0.0078	0.46	Q V				
0+20	0.0112	0.49	Q V				
0+25	0.0146	0.50	Q V				
0+30	0.0185	0.56	Q	V			
0+35	0.0231	0.67	Q	V			
0+40	0.0287	0.81	Q	V			
0+45	0.0365	1.14	Q		V		
0+50	0.0521	2.26		Q		V	
0+55	0.0614	1.35	Q				V
1+ 0	0.0650	0.53	Q				V

1+ 5

0.0660

0.14 Q

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Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-3HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	0.80	1.13

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.95	2.76

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.069(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.069(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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

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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	2.5	5.0	7.5	10.0
0+ 5	0.0009	0.13	Q				
0+10	0.0022	0.19	Q				
0+15	0.0034	0.17	QV				
0+20	0.0047	0.20	QV				
0+25	0.0063	0.22	Q V				
0+30	0.0080	0.25	Q V				
0+35	0.0096	0.23	Q V				
0+40	0.0113	0.25	Q V				
0+45	0.0131	0.26	Q V				
0+50	0.0147	0.23	Q V				
0+55	0.0163	0.23	Q V				
1+ 0	0.0180	0.25	Q V				
1+ 5	0.0201	0.30	Q V				
1+10	0.0223	0.32	Q V				
1+15	0.0245	0.32	Q V				
1+20	0.0266	0.30	Q V				
1+25	0.0290	0.35	Q V				
1+30	0.0317	0.39	Q V				
1+35	0.0342	0.36	Q V				
1+40	0.0368	0.38	Q V				
1+45	0.0399	0.45	Q V				
1+50	0.0431	0.46	Q V				
1+55	0.0461	0.43	Q V				
2+ 0	0.0490	0.43	Q V				
2+ 5	0.0521	0.45	Q V				
2+10	0.0560	0.56	Q V				
2+15	0.0608	0.70	Q V				
2+20	0.0648	0.58	Q V				
2+25	0.0710	0.89	Q V				
2+30	0.0787	1.13	Q V				
2+35	0.0875	1.27	Q V				
2+40	0.0946	1.04	Q V				
2+45	0.0980	0.48	Q V				
2+50	0.0998	0.27	Q V				
2+55	0.1017	0.26	Q V				
3+ 0	0.1026	0.14	Q V				
3+ 5	0.1028	0.03	Q V				

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-6HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.10	1.56

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	2.70	3.83

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.100(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.475(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.475(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.088	(0.125)	0.018	0.070
2	0.17	0.60	0.106	(0.125)	0.022	0.084
3	0.25	0.60	0.106	(0.125)	0.022	0.084
4	0.33	0.60	0.106	(0.125)	0.022	0.084
5	0.42	0.60	0.106	(0.125)	0.022	0.084
6	0.50	0.70	0.124	(0.125)	0.025	0.098
7	0.58	0.70	0.124	(0.125)	0.025	0.098
8	0.67	0.70	0.124	(0.125)	0.025	0.098
9	0.75	0.70	0.124	(0.125)	0.025	0.098
10	0.83	0.70	0.124	(0.125)	0.025	0.098
11	0.92	0.70	0.124	(0.125)	0.025	0.098
12	1.00	0.80	0.142	(0.125)	0.029	0.113
13	1.08	0.80	0.142	(0.125)	0.029	0.113
14	1.17	0.80	0.142	(0.125)	0.029	0.113
15	1.25	0.80	0.142	(0.125)	0.029	0.113
16	1.33	0.80	0.142	(0.125)	0.029	0.113
17	1.42	0.80	0.142	(0.125)	0.029	0.113
18	1.50	0.80	0.142	(0.125)	0.029	0.113
19	1.58	0.80	0.142	(0.125)	0.029	0.113
20	1.67	0.80	0.142	(0.125)	0.029	0.113
21	1.75	0.80	0.142	(0.125)	0.029	0.113
22	1.83	0.80	0.142	(0.125)	0.029	0.113
23	1.92	0.80	0.142	(0.125)	0.029	0.113
24	2.00	0.90	0.159	(0.125)	0.033	0.127
25	2.08	0.80	0.142	(0.125)	0.029	0.113
26	2.17	0.90	0.159	(0.125)	0.033	0.127
27	2.25	0.90	0.159	(0.125)	0.033	0.127
28	2.33	0.90	0.159	(0.125)	0.033	0.127
29	2.42	0.90	0.159	(0.125)	0.033	0.127
30	2.50	0.90	0.159	(0.125)	0.033	0.127
31	2.58	0.90	0.159	(0.125)	0.033	0.127
32	2.67	0.90	0.159	(0.125)	0.033	0.127
33	2.75	1.00	0.177	(0.125)	0.036	0.141
34	2.83	1.00	0.177	(0.125)	0.036	0.141
35	2.92	1.00	0.177	(0.125)	0.036	0.141
36	3.00	1.00	0.177	(0.125)	0.036	0.141
37	3.08	1.00	0.177	(0.125)	0.036	0.141
38	3.17	1.10	0.195	(0.125)	0.040	0.155
39	3.25	1.10	0.195	(0.125)	0.040	0.155
40	3.33	1.10	0.195	(0.125)	0.040	0.155
41	3.42	1.20	0.212	(0.125)	0.044	0.169
42	3.50	1.30	0.230	(0.125)	0.047	0.183
43	3.58	1.40	0.248	(0.125)	0.051	0.197
44	3.67	1.40	0.248	(0.125)	0.051	0.197
45	3.75	1.50	0.265	(0.125)	0.054	0.211
46	3.83	1.50	0.265	(0.125)	0.054	0.211
47	3.92	1.60	0.283	(0.125)	0.058	0.225

0+25	0.0038	0.12	QV				
0+30	0.0047	0.13	QV				
0+35	0.0056	0.14	QV				
0+40	0.0066	0.14	QV				
0+45	0.0076	0.14	Q V				
0+50	0.0086	0.14	Q V				
0+55	0.0095	0.14	Q V				
1+ 0	0.0106	0.15	Q V				
1+ 5	0.0117	0.16	Q V				
1+10	0.0128	0.16	Q V				
1+15	0.0139	0.16	Q V				
1+20	0.0150	0.16	Q V				
1+25	0.0161	0.16	Q V				
1+30	0.0172	0.16	Q V				
1+35	0.0183	0.16	Q V				
1+40	0.0194	0.16	Q V				
1+45	0.0206	0.16	Q V				
1+50	0.0217	0.16	Q V				
1+55	0.0228	0.16	Q V				
2+ 0	0.0240	0.17	Q V				
2+ 5	0.0251	0.17	Q V				
2+10	0.0263	0.17	Q V				
2+15	0.0276	0.18	Q V				
2+20	0.0288	0.18	Q V				
2+25	0.0301	0.18	Q V				
2+30	0.0313	0.18	Q V				
2+35	0.0326	0.18	Q V				
2+40	0.0338	0.18	Q V				
2+45	0.0351	0.19	Q V				
2+50	0.0365	0.20	Q V				
2+55	0.0379	0.20	Q V				
3+ 0	0.0393	0.20	Q V				
3+ 5	0.0407	0.20	Q V				
3+10	0.0422	0.21	Q V				
3+15	0.0437	0.22	Q V				
3+20	0.0452	0.22	Q V				
3+25	0.0468	0.23	Q V				
3+30	0.0486	0.26	Q V				
3+35	0.0505	0.28	Q V				
3+40	0.0524	0.28	Q V				
3+45	0.0544	0.30	Q V				
3+50	0.0565	0.30	Q V				
3+55	0.0587	0.32	Q V				
4+ 0	0.0609	0.32	Q V				
4+ 5	0.0632	0.34	Q V				
4+10	0.0657	0.36	Q V				
4+15	0.0683	0.38	Q V				
4+20	0.0710	0.40	Q V				
4+25	0.0738	0.42	Q V				
4+30	0.0768	0.42	Q V				

4+35	0.0798	0.44	Q		V		
4+40	0.0829	0.46	Q		V		
4+45	0.0862	0.48	Q		V		
4+50	0.0895	0.48	Q		V		
4+55	0.0929	0.50	Q		V		
5+ 0	0.0965	0.52	Q		V		
5+ 5	0.1005	0.59	Q		V		
5+10	0.1053	0.70	Q		V		
5+15	0.1107	0.78	Q		V		
5+20	0.1167	0.86	Q		V		
5+25	0.1233	0.97	Q		V		
5+30	0.1314	1.17	Q		V		
5+35	0.1359	0.65	Q		V		
5+40	0.1375	0.24	Q		V		
5+45	0.1385	0.14	Q		V		
5+50	0.1392	0.11	Q		V		
5+55	0.1397	0.07	Q		V		
6+ 0	0.1401	0.05	Q		V		
6+ 5	0.1401	0.01	Q		V		

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH245.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 5YR-24HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	1.90	2.69

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	4.80	6.80

STORM EVENT (YEAR) = 5.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 2.579(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.579(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.869	0.125	1.000	0.125
Sum (F) =						0.125

Area averaged mean soil loss (F) (In/Hr) = 0.125
 Minimum soil loss rate ((In/Hr)) = 0.063
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

 U n i t H y d r o g r a p h
 V A L L E Y S - C u r v e

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.021	(0.222)	0.004	0.016
2	0.17	0.07	0.021	(0.221)	0.004	0.016
3	0.25	0.07	0.021	(0.220)	0.004	0.016
4	0.33	0.10	0.031	(0.219)	0.006	0.025
5	0.42	0.10	0.031	(0.218)	0.006	0.025
6	0.50	0.10	0.031	(0.217)	0.006	0.025
7	0.58	0.10	0.031	(0.217)	0.006	0.025
8	0.67	0.10	0.031	(0.216)	0.006	0.025
9	0.75	0.10	0.031	(0.215)	0.006	0.025
10	0.83	0.13	0.041	(0.214)	0.008	0.033
11	0.92	0.13	0.041	(0.213)	0.008	0.033
12	1.00	0.13	0.041	(0.212)	0.008	0.033
13	1.08	0.10	0.031	(0.212)	0.006	0.025
14	1.17	0.10	0.031	(0.211)	0.006	0.025
15	1.25	0.10	0.031	(0.210)	0.006	0.025
16	1.33	0.10	0.031	(0.209)	0.006	0.025
17	1.42	0.10	0.031	(0.208)	0.006	0.025
18	1.50	0.10	0.031	(0.207)	0.006	0.025
19	1.58	0.10	0.031	(0.207)	0.006	0.025
20	1.67	0.10	0.031	(0.206)	0.006	0.025
21	1.75	0.10	0.031	(0.205)	0.006	0.025
22	1.83	0.13	0.041	(0.204)	0.008	0.033
23	1.92	0.13	0.041	(0.203)	0.008	0.033
24	2.00	0.13	0.041	(0.202)	0.008	0.033
25	2.08	0.13	0.041	(0.202)	0.008	0.033
26	2.17	0.13	0.041	(0.201)	0.008	0.033
27	2.25	0.13	0.041	(0.200)	0.008	0.033
28	2.33	0.13	0.041	(0.199)	0.008	0.033
29	2.42	0.13	0.041	(0.198)	0.008	0.033
30	2.50	0.13	0.041	(0.198)	0.008	0.033
31	2.58	0.17	0.052	(0.197)	0.011	0.041
32	2.67	0.17	0.052	(0.196)	0.011	0.041
33	2.75	0.17	0.052	(0.195)	0.011	0.041
34	2.83	0.17	0.052	(0.194)	0.011	0.041
35	2.92	0.17	0.052	(0.193)	0.011	0.041
36	3.00	0.17	0.052	(0.193)	0.011	0.041
37	3.08	0.17	0.052	(0.192)	0.011	0.041
38	3.17	0.17	0.052	(0.191)	0.011	0.041
39	3.25	0.17	0.052	(0.190)	0.011	0.041
40	3.33	0.17	0.052	(0.190)	0.011	0.041
41	3.42	0.17	0.052	(0.189)	0.011	0.041
42	3.50	0.17	0.052	(0.188)	0.011	0.041
43	3.58	0.17	0.052	(0.187)	0.011	0.041
44	3.67	0.17	0.052	(0.186)	0.011	0.041
45	3.75	0.17	0.052	(0.186)	0.011	0.041
46	3.83	0.20	0.062	(0.185)	0.013	0.049
47	3.92	0.20	0.062	(0.184)	0.013	0.049

48	4.00	0.20	0.062	(0.183)	0.013	0.049
49	4.08	0.20	0.062	(0.182)	0.013	0.049
50	4.17	0.20	0.062	(0.182)	0.013	0.049
51	4.25	0.20	0.062	(0.181)	0.013	0.049
52	4.33	0.23	0.072	(0.180)	0.015	0.057
53	4.42	0.23	0.072	(0.179)	0.015	0.057
54	4.50	0.23	0.072	(0.179)	0.015	0.057
55	4.58	0.23	0.072	(0.178)	0.015	0.057
56	4.67	0.23	0.072	(0.177)	0.015	0.057
57	4.75	0.23	0.072	(0.176)	0.015	0.057
58	4.83	0.27	0.083	(0.176)	0.017	0.066
59	4.92	0.27	0.083	(0.175)	0.017	0.066
60	5.00	0.27	0.083	(0.174)	0.017	0.066
61	5.08	0.20	0.062	(0.173)	0.013	0.049
62	5.17	0.20	0.062	(0.173)	0.013	0.049
63	5.25	0.20	0.062	(0.172)	0.013	0.049
64	5.33	0.23	0.072	(0.171)	0.015	0.057
65	5.42	0.23	0.072	(0.170)	0.015	0.057
66	5.50	0.23	0.072	(0.170)	0.015	0.057
67	5.58	0.27	0.083	(0.169)	0.017	0.066
68	5.67	0.27	0.083	(0.168)	0.017	0.066
69	5.75	0.27	0.083	(0.167)	0.017	0.066
70	5.83	0.27	0.083	(0.167)	0.017	0.066
71	5.92	0.27	0.083	(0.166)	0.017	0.066
72	6.00	0.27	0.083	(0.165)	0.017	0.066
73	6.08	0.30	0.093	(0.164)	0.019	0.074
74	6.17	0.30	0.093	(0.164)	0.019	0.074
75	6.25	0.30	0.093	(0.163)	0.019	0.074
76	6.33	0.30	0.093	(0.162)	0.019	0.074
77	6.42	0.30	0.093	(0.161)	0.019	0.074
78	6.50	0.30	0.093	(0.161)	0.019	0.074
79	6.58	0.33	0.103	(0.160)	0.021	0.082
80	6.67	0.33	0.103	(0.159)	0.021	0.082
81	6.75	0.33	0.103	(0.159)	0.021	0.082
82	6.83	0.33	0.103	(0.158)	0.021	0.082
83	6.92	0.33	0.103	(0.157)	0.021	0.082
84	7.00	0.33	0.103	(0.156)	0.021	0.082
85	7.08	0.33	0.103	(0.156)	0.021	0.082
86	7.17	0.33	0.103	(0.155)	0.021	0.082
87	7.25	0.33	0.103	(0.154)	0.021	0.082
88	7.33	0.37	0.113	(0.154)	0.023	0.090
89	7.42	0.37	0.113	(0.153)	0.023	0.090
90	7.50	0.37	0.113	(0.152)	0.023	0.090
91	7.58	0.40	0.124	(0.151)	0.025	0.098
92	7.67	0.40	0.124	(0.151)	0.025	0.098
93	7.75	0.40	0.124	(0.150)	0.025	0.098
94	7.83	0.43	0.134	(0.149)	0.027	0.107
95	7.92	0.43	0.134	(0.149)	0.027	0.107
96	8.00	0.43	0.134	(0.148)	0.027	0.107
97	8.08	0.50	0.155	(0.147)	0.032	0.123

98	8.17	0.50	0.155	(0.147)	0.032	0.123
99	8.25	0.50	0.155	(0.146)	0.032	0.123
100	8.33	0.50	0.155	(0.145)	0.032	0.123
101	8.42	0.50	0.155	(0.145)	0.032	0.123
102	8.50	0.50	0.155	(0.144)	0.032	0.123
103	8.58	0.53	0.165	(0.143)	0.034	0.131
104	8.67	0.53	0.165	(0.143)	0.034	0.131
105	8.75	0.53	0.165	(0.142)	0.034	0.131
106	8.83	0.57	0.175	(0.141)	0.036	0.139
107	8.92	0.57	0.175	(0.141)	0.036	0.139
108	9.00	0.57	0.175	(0.140)	0.036	0.139
109	9.08	0.63	0.196	(0.139)	0.040	0.156
110	9.17	0.63	0.196	(0.139)	0.040	0.156
111	9.25	0.63	0.196	(0.138)	0.040	0.156
112	9.33	0.67	0.206	(0.137)	0.042	0.164
113	9.42	0.67	0.206	(0.137)	0.042	0.164
114	9.50	0.67	0.206	(0.136)	0.042	0.164
115	9.58	0.70	0.217	(0.135)	0.044	0.172
116	9.67	0.70	0.217	(0.135)	0.044	0.172
117	9.75	0.70	0.217	(0.134)	0.044	0.172
118	9.83	0.73	0.227	(0.133)	0.047	0.180
119	9.92	0.73	0.227	(0.133)	0.047	0.180
120	10.00	0.73	0.227	(0.132)	0.047	0.180
121	10.08	0.50	0.155	(0.131)	0.032	0.123
122	10.17	0.50	0.155	(0.131)	0.032	0.123
123	10.25	0.50	0.155	(0.130)	0.032	0.123
124	10.33	0.50	0.155	(0.130)	0.032	0.123
125	10.42	0.50	0.155	(0.129)	0.032	0.123
126	10.50	0.50	0.155	(0.128)	0.032	0.123
127	10.58	0.67	0.206	(0.128)	0.042	0.164
128	10.67	0.67	0.206	(0.127)	0.042	0.164
129	10.75	0.67	0.206	(0.126)	0.042	0.164
130	10.83	0.67	0.206	(0.126)	0.042	0.164
131	10.92	0.67	0.206	(0.125)	0.042	0.164
132	11.00	0.67	0.206	(0.125)	0.042	0.164
133	11.08	0.63	0.196	(0.124)	0.040	0.156
134	11.17	0.63	0.196	(0.123)	0.040	0.156
135	11.25	0.63	0.196	(0.123)	0.040	0.156
136	11.33	0.63	0.196	(0.122)	0.040	0.156
137	11.42	0.63	0.196	(0.122)	0.040	0.156
138	11.50	0.63	0.196	(0.121)	0.040	0.156
139	11.58	0.57	0.175	(0.120)	0.036	0.139
140	11.67	0.57	0.175	(0.120)	0.036	0.139
141	11.75	0.57	0.175	(0.119)	0.036	0.139
142	11.83	0.60	0.186	(0.119)	0.038	0.148
143	11.92	0.60	0.186	(0.118)	0.038	0.148
144	12.00	0.60	0.186	(0.117)	0.038	0.148
145	12.08	0.83	0.258	(0.117)	0.053	0.205
146	12.17	0.83	0.258	(0.116)	0.053	0.205
147	12.25	0.83	0.258	(0.116)	0.053	0.205

148	12.33	0.87	0.268	(0.115)	0.055	0.213
149	12.42	0.87	0.268	(0.114)	0.055	0.213
150	12.50	0.87	0.268	(0.114)	0.055	0.213
151	12.58	0.93	0.289	(0.113)	0.059	0.230
152	12.67	0.93	0.289	(0.113)	0.059	0.230
153	12.75	0.93	0.289	(0.112)	0.059	0.230
154	12.83	0.97	0.299	(0.112)	0.061	0.238
155	12.92	0.97	0.299	(0.111)	0.061	0.238
156	13.00	0.97	0.299	(0.110)	0.061	0.238
157	13.08	1.13	0.351	(0.110)	0.072	0.279
158	13.17	1.13	0.351	(0.109)	0.072	0.279
159	13.25	1.13	0.351	(0.109)	0.072	0.279
160	13.33	1.13	0.351	(0.108)	0.072	0.279
161	13.42	1.13	0.351	(0.108)	0.072	0.279
162	13.50	1.13	0.351	(0.107)	0.072	0.279
163	13.58	0.77	0.237	(0.107)	0.049	0.189
164	13.67	0.77	0.237	(0.106)	0.049	0.189
165	13.75	0.77	0.237	(0.105)	0.049	0.189
166	13.83	0.77	0.237	(0.105)	0.049	0.189
167	13.92	0.77	0.237	(0.104)	0.049	0.189
168	14.00	0.77	0.237	(0.104)	0.049	0.189
169	14.08	0.90	0.279	(0.103)	0.057	0.221
170	14.17	0.90	0.279	(0.103)	0.057	0.221
171	14.25	0.90	0.279	(0.102)	0.057	0.221
172	14.33	0.87	0.268	(0.102)	0.055	0.213
173	14.42	0.87	0.268	(0.101)	0.055	0.213
174	14.50	0.87	0.268	(0.101)	0.055	0.213
175	14.58	0.87	0.268	(0.100)	0.055	0.213
176	14.67	0.87	0.268	(0.100)	0.055	0.213
177	14.75	0.87	0.268	(0.099)	0.055	0.213
178	14.83	0.83	0.258	(0.099)	0.053	0.205
179	14.92	0.83	0.258	(0.098)	0.053	0.205
180	15.00	0.83	0.258	(0.098)	0.053	0.205
181	15.08	0.80	0.248	(0.097)	0.051	0.197
182	15.17	0.80	0.248	(0.097)	0.051	0.197
183	15.25	0.80	0.248	(0.096)	0.051	0.197
184	15.33	0.77	0.237	(0.096)	0.049	0.189
185	15.42	0.77	0.237	(0.095)	0.049	0.189
186	15.50	0.77	0.237	(0.095)	0.049	0.189
187	15.58	0.63	0.196	(0.094)	0.040	0.156
188	15.67	0.63	0.196	(0.094)	0.040	0.156
189	15.75	0.63	0.196	(0.093)	0.040	0.156
190	15.83	0.63	0.196	(0.093)	0.040	0.156
191	15.92	0.63	0.196	(0.092)	0.040	0.156
192	16.00	0.63	0.196	(0.092)	0.040	0.156
193	16.08	0.13	0.041	(0.091)	0.008	0.033
194	16.17	0.13	0.041	(0.091)	0.008	0.033
195	16.25	0.13	0.041	(0.090)	0.008	0.033
196	16.33	0.13	0.041	(0.090)	0.008	0.033
197	16.42	0.13	0.041	(0.090)	0.008	0.033

198	16.50	0.13	0.041	(0.089)	0.008	0.033
199	16.58	0.10	0.031	(0.089)	0.006	0.025
200	16.67	0.10	0.031	(0.088)	0.006	0.025
201	16.75	0.10	0.031	(0.088)	0.006	0.025
202	16.83	0.10	0.031	(0.087)	0.006	0.025
203	16.92	0.10	0.031	(0.087)	0.006	0.025
204	17.00	0.10	0.031	(0.086)	0.006	0.025
205	17.08	0.17	0.052	(0.086)	0.011	0.041
206	17.17	0.17	0.052	(0.086)	0.011	0.041
207	17.25	0.17	0.052	(0.085)	0.011	0.041
208	17.33	0.17	0.052	(0.085)	0.011	0.041
209	17.42	0.17	0.052	(0.084)	0.011	0.041
210	17.50	0.17	0.052	(0.084)	0.011	0.041
211	17.58	0.17	0.052	(0.083)	0.011	0.041
212	17.67	0.17	0.052	(0.083)	0.011	0.041
213	17.75	0.17	0.052	(0.083)	0.011	0.041
214	17.83	0.13	0.041	(0.082)	0.008	0.033
215	17.92	0.13	0.041	(0.082)	0.008	0.033
216	18.00	0.13	0.041	(0.081)	0.008	0.033
217	18.08	0.13	0.041	(0.081)	0.008	0.033
218	18.17	0.13	0.041	(0.081)	0.008	0.033
219	18.25	0.13	0.041	(0.080)	0.008	0.033
220	18.33	0.13	0.041	(0.080)	0.008	0.033
221	18.42	0.13	0.041	(0.079)	0.008	0.033
222	18.50	0.13	0.041	(0.079)	0.008	0.033
223	18.58	0.10	0.031	(0.079)	0.006	0.025
224	18.67	0.10	0.031	(0.078)	0.006	0.025
225	18.75	0.10	0.031	(0.078)	0.006	0.025
226	18.83	0.07	0.021	(0.077)	0.004	0.016
227	18.92	0.07	0.021	(0.077)	0.004	0.016
228	19.00	0.07	0.021	(0.077)	0.004	0.016
229	19.08	0.10	0.031	(0.076)	0.006	0.025
230	19.17	0.10	0.031	(0.076)	0.006	0.025
231	19.25	0.10	0.031	(0.076)	0.006	0.025
232	19.33	0.13	0.041	(0.075)	0.008	0.033
233	19.42	0.13	0.041	(0.075)	0.008	0.033
234	19.50	0.13	0.041	(0.075)	0.008	0.033
235	19.58	0.10	0.031	(0.074)	0.006	0.025
236	19.67	0.10	0.031	(0.074)	0.006	0.025
237	19.75	0.10	0.031	(0.074)	0.006	0.025
238	19.83	0.07	0.021	(0.073)	0.004	0.016
239	19.92	0.07	0.021	(0.073)	0.004	0.016
240	20.00	0.07	0.021	(0.073)	0.004	0.016
241	20.08	0.10	0.031	(0.072)	0.006	0.025
242	20.17	0.10	0.031	(0.072)	0.006	0.025
243	20.25	0.10	0.031	(0.072)	0.006	0.025
244	20.33	0.10	0.031	(0.071)	0.006	0.025
245	20.42	0.10	0.031	(0.071)	0.006	0.025
246	20.50	0.10	0.031	(0.071)	0.006	0.025
247	20.58	0.10	0.031	(0.070)	0.006	0.025

 Peak flow rate of this hydrograph = 0.398(CFS)

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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	0.02	Q				
0+10	0.0003	0.02	Q				
0+15	0.0004	0.02	Q				
0+20	0.0007	0.03	Q				
0+25	0.0009	0.04	Q				
0+30	0.0011	0.04	Q				
0+35	0.0014	0.04	Q				
0+40	0.0016	0.04	Q				
0+45	0.0019	0.04	Q				
0+50	0.0022	0.04	Q				
0+55	0.0025	0.05	Q				
1+ 0	0.0028	0.05	Q				
1+ 5	0.0031	0.04	Q				
1+10	0.0033	0.04	Q				
1+15	0.0036	0.04	Q				
1+20	0.0038	0.04	Q				
1+25	0.0040	0.04	Q				
1+30	0.0043	0.04	Q				
1+35	0.0045	0.04	Q				
1+40	0.0048	0.04	Q				
1+45	0.0050	0.04	Q				
1+50	0.0053	0.04	Q				
1+55	0.0056	0.05	Q				
2+ 0	0.0060	0.05	Q				
2+ 5	0.0063	0.05	QV				
2+10	0.0066	0.05	QV				
2+15	0.0069	0.05	QV				
2+20	0.0072	0.05	QV				
2+25	0.0076	0.05	QV				
2+30	0.0079	0.05	QV				
2+35	0.0083	0.05	QV				
2+40	0.0087	0.06	QV				
2+45	0.0091	0.06	QV				
2+50	0.0095	0.06	QV				
2+55	0.0099	0.06	QV				
3+ 0	0.0103	0.06	QV				
3+ 5	0.0107	0.06	QV				
3+10	0.0111	0.06	QV				

3+15	0.0115	0.06	QV
3+20	0.0119	0.06	QV
3+25	0.0123	0.06	Q V
3+30	0.0127	0.06	Q V
3+35	0.0131	0.06	Q V
3+40	0.0135	0.06	Q V
3+45	0.0139	0.06	Q V
3+50	0.0144	0.07	Q V
3+55	0.0149	0.07	Q V
4+ 0	0.0153	0.07	Q V
4+ 5	0.0158	0.07	Q V
4+10	0.0163	0.07	Q V
4+15	0.0168	0.07	Q V
4+20	0.0173	0.08	Q V
4+25	0.0179	0.08	Q V
4+30	0.0185	0.08	Q V
4+35	0.0190	0.08	Q V
4+40	0.0196	0.08	Q V
4+45	0.0202	0.08	Q V
4+50	0.0208	0.09	Q V
4+55	0.0214	0.09	Q V
5+ 0	0.0221	0.09	Q V
5+ 5	0.0226	0.08	Q V
5+10	0.0231	0.07	Q V
5+15	0.0236	0.07	Q V
5+20	0.0241	0.08	Q V
5+25	0.0247	0.08	Q V
5+30	0.0252	0.08	Q V
5+35	0.0259	0.09	Q V
5+40	0.0265	0.09	Q V
5+45	0.0272	0.09	Q V
5+50	0.0278	0.09	Q V
5+55	0.0284	0.09	Q V
6+ 0	0.0291	0.09	Q V
6+ 5	0.0298	0.10	Q V
6+10	0.0305	0.11	Q V
6+15	0.0312	0.11	Q V
6+20	0.0320	0.11	Q V
6+25	0.0327	0.11	Q V
6+30	0.0334	0.11	Q V
6+35	0.0342	0.11	Q V
6+40	0.0350	0.12	Q V
6+45	0.0358	0.12	Q V
6+50	0.0366	0.12	Q V
6+55	0.0374	0.12	Q V
7+ 0	0.0382	0.12	Q V
7+ 5	0.0391	0.12	Q V
7+10	0.0399	0.12	Q V
7+15	0.0407	0.12	Q V
7+20	0.0415	0.13	Q V

7+25	0.0424	0.13	Q	V				
7+30	0.0433	0.13	Q	V				
7+35	0.0442	0.14	Q	V				
7+40	0.0452	0.14	Q	V				
7+45	0.0462	0.14	Q	V				
7+50	0.0472	0.15	Q	V				
7+55	0.0483	0.15	Q	V				
8+ 0	0.0493	0.15	Q	V				
8+ 5	0.0505	0.17	Q	V				
8+10	0.0517	0.18	Q	V				
8+15	0.0529	0.18	Q	V				
8+20	0.0541	0.18	Q	V				
8+25	0.0553	0.18	Q	V				
8+30	0.0565	0.18	Q	V				
8+35	0.0578	0.18	Q	V				
8+40	0.0591	0.19	Q	V				
8+45	0.0604	0.19	Q	V				
8+50	0.0617	0.20	Q	V				
8+55	0.0631	0.20	Q	V				
9+ 0	0.0645	0.20	Q	V				
9+ 5	0.0659	0.22	Q	V				
9+10	0.0675	0.22	Q	V				
9+15	0.0690	0.22	Q	V				
9+20	0.0706	0.23	Q	V				
9+25	0.0722	0.23	Q	V				
9+30	0.0738	0.23	Q	V				
9+35	0.0755	0.24	Q	V				
9+40	0.0772	0.25	Q	V				
9+45	0.0789	0.25	Q	V				
9+50	0.0806	0.25	Q	V				
9+55	0.0824	0.26	Q	V				
10+ 0	0.0842	0.26	Q	V				
10+ 5	0.0856	0.20	Q	V				
10+10	0.0868	0.18	Q	V				
10+15	0.0880	0.18	Q	V				
10+20	0.0892	0.18	Q	V				
10+25	0.0904	0.18	Q	V				
10+30	0.0916	0.18	Q	V				
10+35	0.0931	0.22	Q	V				
10+40	0.0947	0.23	Q	V				
10+45	0.0963	0.23	Q	V				
10+50	0.0980	0.23	Q	V				
10+55	0.0996	0.23	Q	V				
11+ 0	0.1012	0.23	Q	V				
11+ 5	0.1027	0.23	Q	V				
11+10	0.1043	0.22	Q	V				
11+15	0.1058	0.22	Q	V				
11+20	0.1073	0.22	Q	V				
11+25	0.1089	0.22	Q	V				
11+30	0.1104	0.22	Q	V				

11+35	0.1118	0.21	Q	V			
11+40	0.1132	0.20	Q	V			
11+45	0.1146	0.20	Q	V			
11+50	0.1160	0.21	Q	V			
11+55	0.1175	0.21	Q	V			
12+ 0	0.1189	0.21	Q	V			
12+ 5	0.1208	0.27	Q	V			
12+10	0.1228	0.29	Q	V			
12+15	0.1248	0.29	Q	V			
12+20	0.1269	0.30	Q	V			
12+25	0.1290	0.30	Q	V			
12+30	0.1311	0.30	Q	V			
12+35	0.1333	0.32	Q	V			
12+40	0.1355	0.33	Q	V			
12+45	0.1378	0.33	Q	V			
12+50	0.1401	0.34	Q	V			
12+55	0.1424	0.34	Q	V			
13+ 0	0.1448	0.34	Q	V			
13+ 5	0.1474	0.38	Q	V			
13+10	0.1501	0.40	Q	V			
13+15	0.1529	0.40	Q	V			
13+20	0.1556	0.40	Q	V			
13+25	0.1584	0.40	Q	V			
13+30	0.1611	0.40	Q	V			
13+35	0.1633	0.31	Q	V			
13+40	0.1651	0.27	Q	V			
13+45	0.1670	0.27	Q	V			
13+50	0.1688	0.27	Q	V			
13+55	0.1707	0.27	Q	V			
14+ 0	0.1725	0.27	Q	V			
14+ 5	0.1746	0.30	Q	V			
14+10	0.1768	0.32	Q	V			
14+15	0.1790	0.32	Q	V			
14+20	0.1811	0.31	Q	V			
14+25	0.1832	0.30	Q	V			
14+30	0.1853	0.30	Q	V			
14+35	0.1874	0.30	Q	V			
14+40	0.1895	0.30	Q	V			
14+45	0.1916	0.30	Q	V			
14+50	0.1936	0.30	Q	V			
14+55	0.1957	0.29	Q	V			
15+ 0	0.1977	0.29	Q	V			
15+ 5	0.1996	0.28	Q	V			
15+10	0.2016	0.28	Q	V			
15+15	0.2035	0.28	Q	V			
15+20	0.2054	0.27	Q	V			
15+25	0.2072	0.27	Q	V			
15+30	0.2091	0.27	Q	V			
15+35	0.2107	0.24	Q	V			
15+40	0.2123	0.22	Q	V			

15+45	0.2138	0.22	Q				V
15+50	0.2153	0.22	Q				V
15+55	0.2169	0.22	Q				V
16+ 0	0.2184	0.22	Q				V
16+ 5	0.2191	0.10	Q				V
16+10	0.2194	0.05	Q				V
16+15	0.2198	0.05	Q				V
16+20	0.2201	0.05	Q				V
16+25	0.2204	0.05	Q				V
16+30	0.2207	0.05	Q				V
16+35	0.2210	0.04	Q				V
16+40	0.2212	0.04	Q				V
16+45	0.2215	0.04	Q				V
16+50	0.2217	0.04	Q				V
16+55	0.2220	0.04	Q				V
17+ 0	0.2222	0.04	Q				V
17+ 5	0.2226	0.05	Q				V
17+10	0.2230	0.06	Q				V
17+15	0.2234	0.06	Q				V
17+20	0.2238	0.06	Q				V
17+25	0.2242	0.06	Q				V
17+30	0.2246	0.06	Q				V
17+35	0.2250	0.06	Q				V
17+40	0.2254	0.06	Q				V
17+45	0.2258	0.06	Q				V
17+50	0.2261	0.05	Q				V
17+55	0.2265	0.05	Q				V
18+ 0	0.2268	0.05	Q				V
18+ 5	0.2271	0.05	Q				V
18+10	0.2274	0.05	Q				V
18+15	0.2277	0.05	Q				V
18+20	0.2281	0.05	Q				V
18+25	0.2284	0.05	Q				V
18+30	0.2287	0.05	Q				V
18+35	0.2290	0.04	Q				V
18+40	0.2292	0.04	Q				V
18+45	0.2295	0.04	Q				V
18+50	0.2296	0.03	Q				V
18+55	0.2298	0.02	Q				V
19+ 0	0.2300	0.02	Q				V
19+ 5	0.2302	0.03	Q				V
19+10	0.2304	0.04	Q				V
19+15	0.2307	0.04	Q				V
19+20	0.2310	0.04	Q				V
19+25	0.2313	0.05	Q				V
19+30	0.2316	0.05	Q				V
19+35	0.2319	0.04	Q				V
19+40	0.2321	0.04	Q				V
19+45	0.2324	0.04	Q				V
19+50	0.2326	0.03	Q				V

19+55	0.2327	0.02	Q				V
20+ 0	0.2329	0.02	Q				V
20+ 5	0.2331	0.03	Q				V
20+10	0.2333	0.04	Q				V
20+15	0.2336	0.04	Q				V
20+20	0.2338	0.04	Q				V
20+25	0.2341	0.04	Q				V
20+30	0.2343	0.04	Q				V
20+35	0.2345	0.04	Q				V
20+40	0.2348	0.04	Q				V
20+45	0.2350	0.04	Q				V
20+50	0.2352	0.03	Q				V
20+55	0.2354	0.02	Q				V
21+ 0	0.2355	0.02	Q				V
21+ 5	0.2358	0.03	Q				V
21+10	0.2360	0.04	Q				V
21+15	0.2362	0.04	Q				V
21+20	0.2364	0.03	Q				V
21+25	0.2366	0.02	Q				V
21+30	0.2368	0.02	Q				V
21+35	0.2370	0.03	Q				V
21+40	0.2372	0.04	Q				V
21+45	0.2375	0.04	Q				V
21+50	0.2376	0.03	Q				V
21+55	0.2378	0.02	Q				V
22+ 0	0.2380	0.02	Q				V
22+ 5	0.2382	0.03	Q				V
22+10	0.2384	0.04	Q				V
22+15	0.2387	0.04	Q				V
22+20	0.2389	0.03	Q				V
22+25	0.2390	0.02	Q				V
22+30	0.2392	0.02	Q				V
22+35	0.2393	0.02	Q				V
22+40	0.2395	0.02	Q				V
22+45	0.2397	0.02	Q				V
22+50	0.2398	0.02	Q				V
22+55	0.2400	0.02	Q				V
23+ 0	0.2401	0.02	Q				V
23+ 5	0.2403	0.02	Q				V
23+10	0.2405	0.02	Q				V
23+15	0.2406	0.02	Q				V
23+20	0.2408	0.02	Q				V
23+25	0.2409	0.02	Q				V
23+30	0.2411	0.02	Q				V
23+35	0.2413	0.02	Q				V
23+40	0.2414	0.02	Q				V
23+45	0.2416	0.02	Q				V
23+50	0.2418	0.02	Q				V
23+55	0.2419	0.02	Q				V
24+ 0	0.2421	0.02	Q				V

24+ 5

0.2421

0.01 Q

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V

DMA 3 Proposed 10-Year

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH110.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-1HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	0.48	0.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.25	1.77

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 0.797(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 0.797(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.869	0.081	1.000	0.081
Sum (F) =						0.081

Area averaged mean soil loss (F) (In/Hr) = 0.081
 Minimum soil loss rate ((In/Hr)) = 0.041
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	454.945	0.979
2	0.167	909.890	0.449
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	4.40	0.421	0.081	(0.086)	0.339
2	0.17	4.50	0.430	0.081	(0.088)	0.349
3	0.25	5.40	0.516	0.081	(0.106)	0.435
4	0.33	5.40	0.516	0.081	(0.106)	0.435
5	0.42	5.70	0.545	0.081	(0.112)	0.464
6	0.50	6.40	0.612	0.081	(0.125)	0.531
7	0.58	7.90	0.755	0.081	(0.155)	0.674
8	0.67	9.10	0.870	0.081	(0.178)	0.789
9	0.75	12.80	1.224	0.081	(0.251)	1.143
10	0.83	25.60	2.448	0.081	(0.502)	2.366
11	0.92	7.90	0.755	0.081	(0.155)	0.674
12	1.00	4.90	0.469	0.081	(0.096)	0.387

(Loss Rate Not Used)

Sum = 100.0 Sum = 8.6

Flood volume = Effective rainfall 0.72(In)
times area 1.4(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.08(In)
Total soil loss = 0.010(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 3680.5 Cubic Feet
Total soil loss = 417.8 Cubic Feet

Peak flow rate of this hydrograph = 2.831(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0023	0.33	Q				
0+10	0.0057	0.49	QV				
0+15	0.0097	0.58	Q V				
0+20	0.0140	0.62	Q V				
0+25	0.0185	0.65	Q V				
0+30	0.0235	0.73	Q	V			
0+35	0.0297	0.90	Q	V			
0+40	0.0371	1.08	Q	V			
0+45	0.0472	1.47	Q		V		
0+50	0.0667	2.83		Q		V	
0+55	0.0786	1.72	Q				V
1+ 0	0.0833	0.68	Q				V

1+ 5

0.0845

0.17 Q

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Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-3HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	0.80	1.13

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.95	2.76

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.273(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.273(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.869	0.081	1.000	0.081
Sum (F) =						0.081

Area averaged mean soil loss (F) (In/Hr) = 0.081
 Minimum soil loss rate ((In/Hr)) = 0.041
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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

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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	2.5	5.0	7.5	10.0
0+ 5	0.0011		0.15	Q				
0+10	0.0026		0.23	Q				
0+15	0.0040		0.20	QV				
0+20	0.0057		0.24	QV				
0+25	0.0074		0.26	QV				
0+30	0.0095		0.30	QV				
0+35	0.0114		0.28	Q V				
0+40	0.0134		0.30	Q V				
0+45	0.0156		0.31	Q V				
0+50	0.0175		0.28	Q V				
0+55	0.0194		0.27	Q V				
1+ 0	0.0214		0.30	Q V				
1+ 5	0.0239		0.36	Q V				
1+10	0.0265		0.38	Q V				
1+15	0.0292		0.38	Q V				
1+20	0.0316		0.36	Q V				
1+25	0.0345		0.42	Q V				
1+30	0.0377		0.47	Q V				
1+35	0.0407		0.43	Q V				
1+40	0.0439		0.46	Q V				
1+45	0.0477		0.56	Q V				
1+50	0.0517		0.57	Q V				
1+55	0.0553		0.53	Q V				
2+ 0	0.0590		0.53	Q V				
2+ 5	0.0628		0.55	Q V				
2+10	0.0678		0.73	Q V				
2+15	0.0742		0.92	Q V				
2+20	0.0793		0.75	Q V				
2+25	0.0872		1.14	Q V				
2+30	0.0971		1.44	Q V				
2+35	0.1082		1.61	Q V				
2+40	0.1174		1.33	Q V				
2+45	0.1216		0.61	Q V				
2+50	0.1238		0.32	Q V				
2+55	0.1259		0.31	Q V				
3+ 0	0.1271		0.17	Q V				
3+ 5	0.1273		0.03	Q V				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH610.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-6HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.10	1.56

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	2.70	3.83

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.100(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 1.758(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.758(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.869	0.081	1.000	0.081
Sum (F) =						0.081

Area averaged mean soil loss (F) (In/Hr) = 0.081
 Minimum soil loss rate ((In/Hr)) = 0.041
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.105	(0.081)	0.022	0.084
2	0.17	0.60	0.127	(0.081)	0.026	0.101
3	0.25	0.60	0.127	(0.081)	0.026	0.101
4	0.33	0.60	0.127	(0.081)	0.026	0.101
5	0.42	0.60	0.127	(0.081)	0.026	0.101
6	0.50	0.70	0.148	(0.081)	0.030	0.117
7	0.58	0.70	0.148	(0.081)	0.030	0.117
8	0.67	0.70	0.148	(0.081)	0.030	0.117
9	0.75	0.70	0.148	(0.081)	0.030	0.117
10	0.83	0.70	0.148	(0.081)	0.030	0.117
11	0.92	0.70	0.148	(0.081)	0.030	0.117
12	1.00	0.80	0.169	(0.081)	0.035	0.134
13	1.08	0.80	0.169	(0.081)	0.035	0.134
14	1.17	0.80	0.169	(0.081)	0.035	0.134
15	1.25	0.80	0.169	(0.081)	0.035	0.134
16	1.33	0.80	0.169	(0.081)	0.035	0.134
17	1.42	0.80	0.169	(0.081)	0.035	0.134
18	1.50	0.80	0.169	(0.081)	0.035	0.134
19	1.58	0.80	0.169	(0.081)	0.035	0.134
20	1.67	0.80	0.169	(0.081)	0.035	0.134
21	1.75	0.80	0.169	(0.081)	0.035	0.134
22	1.83	0.80	0.169	(0.081)	0.035	0.134
23	1.92	0.80	0.169	(0.081)	0.035	0.134
24	2.00	0.90	0.190	(0.081)	0.039	0.151
25	2.08	0.80	0.169	(0.081)	0.035	0.134
26	2.17	0.90	0.190	(0.081)	0.039	0.151
27	2.25	0.90	0.190	(0.081)	0.039	0.151
28	2.33	0.90	0.190	(0.081)	0.039	0.151
29	2.42	0.90	0.190	(0.081)	0.039	0.151
30	2.50	0.90	0.190	(0.081)	0.039	0.151
31	2.58	0.90	0.190	(0.081)	0.039	0.151
32	2.67	0.90	0.190	(0.081)	0.039	0.151
33	2.75	1.00	0.211	(0.081)	0.043	0.168
34	2.83	1.00	0.211	(0.081)	0.043	0.168
35	2.92	1.00	0.211	(0.081)	0.043	0.168
36	3.00	1.00	0.211	(0.081)	0.043	0.168
37	3.08	1.00	0.211	(0.081)	0.043	0.168
38	3.17	1.10	0.232	(0.081)	0.048	0.185
39	3.25	1.10	0.232	(0.081)	0.048	0.185
40	3.33	1.10	0.232	(0.081)	0.048	0.185
41	3.42	1.20	0.253	(0.081)	0.052	0.201
42	3.50	1.30	0.274	(0.081)	0.056	0.218
43	3.58	1.40	0.295	(0.081)	0.061	0.235
44	3.67	1.40	0.295	(0.081)	0.061	0.235
45	3.75	1.50	0.316	(0.081)	0.065	0.252
46	3.83	1.50	0.316	(0.081)	0.065	0.252
47	3.92	1.60	0.338	(0.081)	0.069	0.268

48	4.00	1.60	0.338	(0.081)	0.069	0.268
49	4.08	1.70	0.359	(0.081)	0.074	0.285
50	4.17	1.80	0.380	(0.081)	0.078	0.302
51	4.25	1.90	0.401	0.081	(0.082)	0.320
52	4.33	2.00	0.422	0.081	(0.087)	0.341
53	4.42	2.10	0.443	0.081	(0.091)	0.362
54	4.50	2.10	0.443	0.081	(0.091)	0.362
55	4.58	2.20	0.464	0.081	(0.095)	0.383
56	4.67	2.30	0.485	0.081	(0.099)	0.404
57	4.75	2.40	0.506	0.081	(0.104)	0.425
58	4.83	2.40	0.506	0.081	(0.104)	0.425
59	4.92	2.50	0.527	0.081	(0.108)	0.446
60	5.00	2.60	0.549	0.081	(0.112)	0.467
61	5.08	3.10	0.654	0.081	(0.134)	0.573
62	5.17	3.60	0.760	0.081	(0.156)	0.678
63	5.25	3.90	0.823	0.081	(0.169)	0.742
64	5.33	4.20	0.886	0.081	(0.182)	0.805
65	5.42	4.70	0.992	0.081	(0.203)	0.910
66	5.50	5.60	1.182	0.081	(0.242)	1.100
67	5.58	1.90	0.401	0.081	(0.082)	0.320
68	5.67	0.90	0.190	(0.081)	0.039	0.151
69	5.75	0.60	0.127	(0.081)	0.026	0.101
70	5.83	0.50	0.105	(0.081)	0.022	0.084
71	5.92	0.30	0.063	(0.081)	0.013	0.050
72	6.00	0.20	0.042	(0.081)	0.009	0.034

(Loss Rate Not Used)

Sum = 100.0

Sum = 17.5

Flood volume = Effective rainfall 1.46(In)
times area 1.4(Ac.)/[((In)/(Ft.))] = 0.2(Ac.Ft)
Total soil loss = 0.30(In)
Total soil loss = 0.035(Ac.Ft)
Total rainfall = 1.76(In)
Flood volume = 7515.7 Cubic Feet
Total soil loss = 1528.2 Cubic Feet

Peak flow rate of this hydrograph = 1.487(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0006	0.08	Q				
0+10	0.0015	0.14	Q				
0+15	0.0025	0.14	Q				
0+20	0.0035	0.14	Q				

0+25	0.0045	0.14	QV				
0+30	0.0056	0.16	QV				
0+35	0.0067	0.17	QV				
0+40	0.0079	0.17	QV				
0+45	0.0090	0.17	Q V				
0+50	0.0102	0.17	Q V				
0+55	0.0114	0.17	Q V				
1+ 0	0.0126	0.18	Q V				
1+ 5	0.0139	0.19	Q V				
1+10	0.0153	0.19	Q V				
1+15	0.0166	0.19	Q V				
1+20	0.0179	0.19	Q V				
1+25	0.0192	0.19	Q V				
1+30	0.0205	0.19	Q V				
1+35	0.0219	0.19	Q V				
1+40	0.0232	0.19	Q V				
1+45	0.0245	0.19	Q V				
1+50	0.0258	0.19	Q V				
1+55	0.0271	0.19	Q V				
2+ 0	0.0286	0.21	Q V				
2+ 5	0.0300	0.20	Q V				
2+10	0.0314	0.21	Q V				
2+15	0.0329	0.22	Q V				
2+20	0.0344	0.22	Q V				
2+25	0.0358	0.22	Q V				
2+30	0.0373	0.22	Q V				
2+35	0.0388	0.22	Q V				
2+40	0.0403	0.22	Q V				
2+45	0.0419	0.23	Q V				
2+50	0.0436	0.24	Q V				
2+55	0.0452	0.24	Q V				
3+ 0	0.0469	0.24	Q V				
3+ 5	0.0485	0.24	Q	V			
3+10	0.0503	0.26	Q	V			
3+15	0.0521	0.26	Q	V			
3+20	0.0539	0.26	Q	V			
3+25	0.0558	0.28	Q	V			
3+30	0.0579	0.30	Q	V			
3+35	0.0602	0.33	Q	V			
3+40	0.0625	0.34	Q	V			
3+45	0.0649	0.35	Q	V			
3+50	0.0674	0.36	Q	V			
3+55	0.0700	0.38	Q	V			
4+ 0	0.0726	0.38	Q	V			
4+ 5	0.0754	0.40	Q	V			
4+10	0.0783	0.42	Q	V			
4+15	0.0814	0.45	Q	V			
4+20	0.0847	0.48	Q	V			
4+25	0.0882	0.51	Q	V			
4+30	0.0917	0.52	Q	V			

4+35	0.0954	0.54	Q		V		
4+40	0.0993	0.57	Q		V		
4+45	0.1035	0.60	Q		V		
4+50	0.1076	0.61	Q		V		
4+55	0.1120	0.63	Q		V		
5+ 0	0.1165	0.66	Q		V		
5+ 5	0.1218	0.77	Q		V		
5+10	0.1282	0.92	Q		V		
5+15	0.1353	1.03	Q		V		
5+20	0.1430	1.12	Q		V		
5+25	0.1516	1.25	Q		V		
5+30	0.1619	1.49	Q		V		
5+35	0.1674	0.81	Q		V		
5+40	0.1694	0.29	Q		V		
5+45	0.1706	0.17	Q		V		
5+50	0.1715	0.13	Q		V		
5+55	0.1721	0.09	Q		V		
6+ 0	0.1724	0.06	Q		V		
6+ 5	0.1725	0.02	Q		V		

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH2410.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 10YR-24HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	1.90	2.69

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	4.80	6.80

STORM EVENT (YEAR) = 10.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 3.093(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 3.093(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-2	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	69.0	0.373	0.869	0.081	1.000	0.081
Sum (F) =						0.081

Area averaged mean soil loss (F) (In/Hr) = 0.081
 Minimum soil loss rate ((In/Hr)) = 0.041
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.025	(0.144)	0.005	0.020
2	0.17	0.07	0.025	(0.143)	0.005	0.020
3	0.25	0.07	0.025	(0.143)	0.005	0.020
4	0.33	0.10	0.037	(0.142)	0.008	0.030
5	0.42	0.10	0.037	(0.142)	0.008	0.030
6	0.50	0.10	0.037	(0.141)	0.008	0.030
7	0.58	0.10	0.037	(0.141)	0.008	0.030
8	0.67	0.10	0.037	(0.140)	0.008	0.030
9	0.75	0.10	0.037	(0.140)	0.008	0.030
10	0.83	0.13	0.049	(0.139)	0.010	0.039
11	0.92	0.13	0.049	(0.138)	0.010	0.039
12	1.00	0.13	0.049	(0.138)	0.010	0.039
13	1.08	0.10	0.037	(0.137)	0.008	0.030
14	1.17	0.10	0.037	(0.137)	0.008	0.030
15	1.25	0.10	0.037	(0.136)	0.008	0.030
16	1.33	0.10	0.037	(0.136)	0.008	0.030
17	1.42	0.10	0.037	(0.135)	0.008	0.030
18	1.50	0.10	0.037	(0.135)	0.008	0.030
19	1.58	0.10	0.037	(0.134)	0.008	0.030
20	1.67	0.10	0.037	(0.134)	0.008	0.030
21	1.75	0.10	0.037	(0.133)	0.008	0.030
22	1.83	0.13	0.049	(0.133)	0.010	0.039
23	1.92	0.13	0.049	(0.132)	0.010	0.039
24	2.00	0.13	0.049	(0.131)	0.010	0.039
25	2.08	0.13	0.049	(0.131)	0.010	0.039
26	2.17	0.13	0.049	(0.130)	0.010	0.039
27	2.25	0.13	0.049	(0.130)	0.010	0.039
28	2.33	0.13	0.049	(0.129)	0.010	0.039
29	2.42	0.13	0.049	(0.129)	0.010	0.039
30	2.50	0.13	0.049	(0.128)	0.010	0.039
31	2.58	0.17	0.062	(0.128)	0.013	0.049
32	2.67	0.17	0.062	(0.127)	0.013	0.049
33	2.75	0.17	0.062	(0.127)	0.013	0.049
34	2.83	0.17	0.062	(0.126)	0.013	0.049
35	2.92	0.17	0.062	(0.126)	0.013	0.049
36	3.00	0.17	0.062	(0.125)	0.013	0.049
37	3.08	0.17	0.062	(0.125)	0.013	0.049
38	3.17	0.17	0.062	(0.124)	0.013	0.049
39	3.25	0.17	0.062	(0.124)	0.013	0.049
40	3.33	0.17	0.062	(0.123)	0.013	0.049
41	3.42	0.17	0.062	(0.123)	0.013	0.049
42	3.50	0.17	0.062	(0.122)	0.013	0.049
43	3.58	0.17	0.062	(0.122)	0.013	0.049
44	3.67	0.17	0.062	(0.121)	0.013	0.049
45	3.75	0.17	0.062	(0.121)	0.013	0.049
46	3.83	0.20	0.074	(0.120)	0.015	0.059
47	3.92	0.20	0.074	(0.120)	0.015	0.059

48	4.00	0.20	0.074	(0.119)	0.015	0.059
49	4.08	0.20	0.074	(0.119)	0.015	0.059
50	4.17	0.20	0.074	(0.118)	0.015	0.059
51	4.25	0.20	0.074	(0.118)	0.015	0.059
52	4.33	0.23	0.087	(0.117)	0.018	0.069
53	4.42	0.23	0.087	(0.117)	0.018	0.069
54	4.50	0.23	0.087	(0.116)	0.018	0.069
55	4.58	0.23	0.087	(0.116)	0.018	0.069
56	4.67	0.23	0.087	(0.115)	0.018	0.069
57	4.75	0.23	0.087	(0.115)	0.018	0.069
58	4.83	0.27	0.099	(0.114)	0.020	0.079
59	4.92	0.27	0.099	(0.114)	0.020	0.079
60	5.00	0.27	0.099	(0.113)	0.020	0.079
61	5.08	0.20	0.074	(0.113)	0.015	0.059
62	5.17	0.20	0.074	(0.112)	0.015	0.059
63	5.25	0.20	0.074	(0.112)	0.015	0.059
64	5.33	0.23	0.087	(0.111)	0.018	0.069
65	5.42	0.23	0.087	(0.111)	0.018	0.069
66	5.50	0.23	0.087	(0.110)	0.018	0.069
67	5.58	0.27	0.099	(0.110)	0.020	0.079
68	5.67	0.27	0.099	(0.109)	0.020	0.079
69	5.75	0.27	0.099	(0.109)	0.020	0.079
70	5.83	0.27	0.099	(0.108)	0.020	0.079
71	5.92	0.27	0.099	(0.108)	0.020	0.079
72	6.00	0.27	0.099	(0.107)	0.020	0.079
73	6.08	0.30	0.111	(0.107)	0.023	0.089
74	6.17	0.30	0.111	(0.106)	0.023	0.089
75	6.25	0.30	0.111	(0.106)	0.023	0.089
76	6.33	0.30	0.111	(0.105)	0.023	0.089
77	6.42	0.30	0.111	(0.105)	0.023	0.089
78	6.50	0.30	0.111	(0.104)	0.023	0.089
79	6.58	0.33	0.124	(0.104)	0.025	0.098
80	6.67	0.33	0.124	(0.103)	0.025	0.098
81	6.75	0.33	0.124	(0.103)	0.025	0.098
82	6.83	0.33	0.124	(0.103)	0.025	0.098
83	6.92	0.33	0.124	(0.102)	0.025	0.098
84	7.00	0.33	0.124	(0.102)	0.025	0.098
85	7.08	0.33	0.124	(0.101)	0.025	0.098
86	7.17	0.33	0.124	(0.101)	0.025	0.098
87	7.25	0.33	0.124	(0.100)	0.025	0.098
88	7.33	0.37	0.136	(0.100)	0.028	0.108
89	7.42	0.37	0.136	(0.099)	0.028	0.108
90	7.50	0.37	0.136	(0.099)	0.028	0.108
91	7.58	0.40	0.148	(0.098)	0.030	0.118
92	7.67	0.40	0.148	(0.098)	0.030	0.118
93	7.75	0.40	0.148	(0.097)	0.030	0.118
94	7.83	0.43	0.161	(0.097)	0.033	0.128
95	7.92	0.43	0.161	(0.097)	0.033	0.128
96	8.00	0.43	0.161	(0.096)	0.033	0.128
97	8.08	0.50	0.186	(0.096)	0.038	0.148

98	8.17	0.50	0.186	(0.095)	0.038	0.148
99	8.25	0.50	0.186	(0.095)	0.038	0.148
100	8.33	0.50	0.186	(0.094)	0.038	0.148
101	8.42	0.50	0.186	(0.094)	0.038	0.148
102	8.50	0.50	0.186	(0.093)	0.038	0.148
103	8.58	0.53	0.198	(0.093)	0.041	0.157
104	8.67	0.53	0.198	(0.093)	0.041	0.157
105	8.75	0.53	0.198	(0.092)	0.041	0.157
106	8.83	0.57	0.210	(0.092)	0.043	0.167
107	8.92	0.57	0.210	(0.091)	0.043	0.167
108	9.00	0.57	0.210	(0.091)	0.043	0.167
109	9.08	0.63	0.235	(0.090)	0.048	0.187
110	9.17	0.63	0.235	(0.090)	0.048	0.187
111	9.25	0.63	0.235	(0.090)	0.048	0.187
112	9.33	0.67	0.247	(0.089)	0.051	0.197
113	9.42	0.67	0.247	(0.089)	0.051	0.197
114	9.50	0.67	0.247	(0.088)	0.051	0.197
115	9.58	0.70	0.260	(0.088)	0.053	0.207
116	9.67	0.70	0.260	(0.087)	0.053	0.207
117	9.75	0.70	0.260	(0.087)	0.053	0.207
118	9.83	0.73	0.272	(0.087)	0.056	0.216
119	9.92	0.73	0.272	(0.086)	0.056	0.216
120	10.00	0.73	0.272	(0.086)	0.056	0.216
121	10.08	0.50	0.186	(0.085)	0.038	0.148
122	10.17	0.50	0.186	(0.085)	0.038	0.148
123	10.25	0.50	0.186	(0.085)	0.038	0.148
124	10.33	0.50	0.186	(0.084)	0.038	0.148
125	10.42	0.50	0.186	(0.084)	0.038	0.148
126	10.50	0.50	0.186	(0.083)	0.038	0.148
127	10.58	0.67	0.247	(0.083)	0.051	0.197
128	10.67	0.67	0.247	(0.083)	0.051	0.197
129	10.75	0.67	0.247	(0.082)	0.051	0.197
130	10.83	0.67	0.247	(0.082)	0.051	0.197
131	10.92	0.67	0.247	(0.081)	0.051	0.197
132	11.00	0.67	0.247	(0.081)	0.051	0.197
133	11.08	0.63	0.235	(0.080)	0.048	0.187
134	11.17	0.63	0.235	(0.080)	0.048	0.187
135	11.25	0.63	0.235	(0.080)	0.048	0.187
136	11.33	0.63	0.235	(0.079)	0.048	0.187
137	11.42	0.63	0.235	(0.079)	0.048	0.187
138	11.50	0.63	0.235	(0.079)	0.048	0.187
139	11.58	0.57	0.210	(0.078)	0.043	0.167
140	11.67	0.57	0.210	(0.078)	0.043	0.167
141	11.75	0.57	0.210	(0.077)	0.043	0.167
142	11.83	0.60	0.223	(0.077)	0.046	0.177
143	11.92	0.60	0.223	(0.077)	0.046	0.177
144	12.00	0.60	0.223	(0.076)	0.046	0.177
145	12.08	0.83	0.309	(0.076)	0.063	0.246
146	12.17	0.83	0.309	(0.075)	0.063	0.246
147	12.25	0.83	0.309	(0.075)	0.063	0.246

148	12.33	0.87	0.322	(0.075)	0.066	0.256
149	12.42	0.87	0.322	(0.074)	0.066	0.256
150	12.50	0.87	0.322	(0.074)	0.066	0.256
151	12.58	0.93	0.346	(0.074)	0.071	0.275
152	12.67	0.93	0.346	(0.073)	0.071	0.275
153	12.75	0.93	0.346	(0.073)	0.071	0.275
154	12.83	0.97	0.359	0.072 (0.074)		0.286
155	12.92	0.97	0.359	0.072 (0.074)		0.287
156	13.00	0.97	0.359	0.072 (0.074)		0.287
157	13.08	1.13	0.421	0.071 (0.086)		0.349
158	13.17	1.13	0.421	0.071 (0.086)		0.350
159	13.25	1.13	0.421	0.071 (0.086)		0.350
160	13.33	1.13	0.421	0.070 (0.086)		0.350
161	13.42	1.13	0.421	0.070 (0.086)		0.351
162	13.50	1.13	0.421	0.070 (0.086)		0.351
163	13.58	0.77	0.285	(0.069)	0.058	0.226
164	13.67	0.77	0.285	(0.069)	0.058	0.226
165	13.75	0.77	0.285	(0.069)	0.058	0.226
166	13.83	0.77	0.285	(0.068)	0.058	0.226
167	13.92	0.77	0.285	(0.068)	0.058	0.226
168	14.00	0.77	0.285	(0.067)	0.058	0.226
169	14.08	0.90	0.334	0.067 (0.068)		0.267
170	14.17	0.90	0.334	0.067 (0.068)		0.267
171	14.25	0.90	0.334	0.066 (0.068)		0.268
172	14.33	0.87	0.322	(0.066)	0.066	0.256
173	14.42	0.87	0.322	0.066 (0.066)		0.256
174	14.50	0.87	0.322	0.065 (0.066)		0.256
175	14.58	0.87	0.322	0.065 (0.066)		0.257
176	14.67	0.87	0.322	0.065 (0.066)		0.257
177	14.75	0.87	0.322	0.064 (0.066)		0.257
178	14.83	0.83	0.309	(0.064)	0.063	0.246
179	14.92	0.83	0.309	(0.064)	0.063	0.246
180	15.00	0.83	0.309	(0.063)	0.063	0.246
181	15.08	0.80	0.297	(0.063)	0.061	0.236
182	15.17	0.80	0.297	(0.063)	0.061	0.236
183	15.25	0.80	0.297	(0.062)	0.061	0.236
184	15.33	0.77	0.285	(0.062)	0.058	0.226
185	15.42	0.77	0.285	(0.062)	0.058	0.226
186	15.50	0.77	0.285	(0.062)	0.058	0.226
187	15.58	0.63	0.235	(0.061)	0.048	0.187
188	15.67	0.63	0.235	(0.061)	0.048	0.187
189	15.75	0.63	0.235	(0.061)	0.048	0.187
190	15.83	0.63	0.235	(0.060)	0.048	0.187
191	15.92	0.63	0.235	(0.060)	0.048	0.187
192	16.00	0.63	0.235	(0.060)	0.048	0.187
193	16.08	0.13	0.049	(0.059)	0.010	0.039
194	16.17	0.13	0.049	(0.059)	0.010	0.039
195	16.25	0.13	0.049	(0.059)	0.010	0.039
196	16.33	0.13	0.049	(0.058)	0.010	0.039
197	16.42	0.13	0.049	(0.058)	0.010	0.039

198	16.50	0.13	0.049	(0.058)	0.010	0.039
199	16.58	0.10	0.037	(0.058)	0.008	0.030
200	16.67	0.10	0.037	(0.057)	0.008	0.030
201	16.75	0.10	0.037	(0.057)	0.008	0.030
202	16.83	0.10	0.037	(0.057)	0.008	0.030
203	16.92	0.10	0.037	(0.056)	0.008	0.030
204	17.00	0.10	0.037	(0.056)	0.008	0.030
205	17.08	0.17	0.062	(0.056)	0.013	0.049
206	17.17	0.17	0.062	(0.056)	0.013	0.049
207	17.25	0.17	0.062	(0.055)	0.013	0.049
208	17.33	0.17	0.062	(0.055)	0.013	0.049
209	17.42	0.17	0.062	(0.055)	0.013	0.049
210	17.50	0.17	0.062	(0.054)	0.013	0.049
211	17.58	0.17	0.062	(0.054)	0.013	0.049
212	17.67	0.17	0.062	(0.054)	0.013	0.049
213	17.75	0.17	0.062	(0.054)	0.013	0.049
214	17.83	0.13	0.049	(0.053)	0.010	0.039
215	17.92	0.13	0.049	(0.053)	0.010	0.039
216	18.00	0.13	0.049	(0.053)	0.010	0.039
217	18.08	0.13	0.049	(0.053)	0.010	0.039
218	18.17	0.13	0.049	(0.052)	0.010	0.039
219	18.25	0.13	0.049	(0.052)	0.010	0.039
220	18.33	0.13	0.049	(0.052)	0.010	0.039
221	18.42	0.13	0.049	(0.052)	0.010	0.039
222	18.50	0.13	0.049	(0.051)	0.010	0.039
223	18.58	0.10	0.037	(0.051)	0.008	0.030
224	18.67	0.10	0.037	(0.051)	0.008	0.030
225	18.75	0.10	0.037	(0.051)	0.008	0.030
226	18.83	0.07	0.025	(0.050)	0.005	0.020
227	18.92	0.07	0.025	(0.050)	0.005	0.020
228	19.00	0.07	0.025	(0.050)	0.005	0.020
229	19.08	0.10	0.037	(0.050)	0.008	0.030
230	19.17	0.10	0.037	(0.049)	0.008	0.030
231	19.25	0.10	0.037	(0.049)	0.008	0.030
232	19.33	0.13	0.049	(0.049)	0.010	0.039
233	19.42	0.13	0.049	(0.049)	0.010	0.039
234	19.50	0.13	0.049	(0.048)	0.010	0.039
235	19.58	0.10	0.037	(0.048)	0.008	0.030
236	19.67	0.10	0.037	(0.048)	0.008	0.030
237	19.75	0.10	0.037	(0.048)	0.008	0.030
238	19.83	0.07	0.025	(0.048)	0.005	0.020
239	19.92	0.07	0.025	(0.047)	0.005	0.020
240	20.00	0.07	0.025	(0.047)	0.005	0.020
241	20.08	0.10	0.037	(0.047)	0.008	0.030
242	20.17	0.10	0.037	(0.047)	0.008	0.030
243	20.25	0.10	0.037	(0.047)	0.008	0.030
244	20.33	0.10	0.037	(0.046)	0.008	0.030
245	20.42	0.10	0.037	(0.046)	0.008	0.030
246	20.50	0.10	0.037	(0.046)	0.008	0.030
247	20.58	0.10	0.037	(0.046)	0.008	0.030

 Peak flow rate of this hydrograph = 0.501(CFS)

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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	0.02	Q				
0+10	0.0003	0.03	Q				
0+15	0.0005	0.03	Q				
0+20	0.0008	0.04	Q				
0+25	0.0011	0.04	Q				
0+30	0.0014	0.04	Q				
0+35	0.0017	0.04	Q				
0+40	0.0019	0.04	Q				
0+45	0.0022	0.04	Q				
0+50	0.0026	0.05	Q				
0+55	0.0030	0.06	Q				
1+ 0	0.0034	0.06	Q				
1+ 5	0.0037	0.05	Q				
1+10	0.0040	0.04	Q				
1+15	0.0043	0.04	Q				
1+20	0.0046	0.04	Q				
1+25	0.0048	0.04	Q				
1+30	0.0051	0.04	Q				
1+35	0.0054	0.04	Q				
1+40	0.0057	0.04	Q				
1+45	0.0060	0.04	Q				
1+50	0.0064	0.05	Q				
1+55	0.0068	0.06	Q				
2+ 0	0.0071	0.06	Q				
2+ 5	0.0075	0.06	QV				
2+10	0.0079	0.06	QV				
2+15	0.0083	0.06	QV				
2+20	0.0087	0.06	QV				
2+25	0.0091	0.06	QV				
2+30	0.0095	0.06	QV				
2+35	0.0099	0.07	QV				
2+40	0.0104	0.07	QV				
2+45	0.0109	0.07	QV				
2+50	0.0114	0.07	QV				
2+55	0.0118	0.07	QV				
3+ 0	0.0123	0.07	QV				
3+ 5	0.0128	0.07	QV				
3+10	0.0133	0.07	QV				

3+15	0.0138	0.07	QV
3+20	0.0143	0.07	QV
3+25	0.0148	0.07	Q V
3+30	0.0152	0.07	Q V
3+35	0.0157	0.07	Q V
3+40	0.0162	0.07	Q V
3+45	0.0167	0.07	Q V
3+50	0.0172	0.08	Q V
3+55	0.0178	0.08	Q V
4+ 0	0.0184	0.08	Q V
4+ 5	0.0190	0.08	Q V
4+10	0.0196	0.08	Q V
4+15	0.0201	0.08	Q V
4+20	0.0208	0.09	Q V
4+25	0.0215	0.10	Q V
4+30	0.0221	0.10	Q V
4+35	0.0228	0.10	Q V
4+40	0.0235	0.10	Q V
4+45	0.0242	0.10	Q V
4+50	0.0249	0.11	Q V
4+55	0.0257	0.11	Q V
5+ 0	0.0265	0.11	Q V
5+ 5	0.0271	0.09	Q V
5+10	0.0277	0.08	Q V
5+15	0.0283	0.08	Q V
5+20	0.0289	0.09	Q V
5+25	0.0296	0.10	Q V
5+30	0.0303	0.10	Q V
5+35	0.0310	0.11	Q V
5+40	0.0318	0.11	Q V
5+45	0.0326	0.11	Q V
5+50	0.0333	0.11	Q V
5+55	0.0341	0.11	Q V
6+ 0	0.0349	0.11	Q V
6+ 5	0.0357	0.12	Q V
6+10	0.0366	0.13	Q V
6+15	0.0375	0.13	Q V
6+20	0.0383	0.13	Q V
6+25	0.0392	0.13	Q V
6+30	0.0401	0.13	Q V
6+35	0.0410	0.14	Q V
6+40	0.0420	0.14	Q V
6+45	0.0430	0.14	Q V
6+50	0.0439	0.14	Q V
6+55	0.0449	0.14	Q V
7+ 0	0.0459	0.14	Q V
7+ 5	0.0468	0.14	Q V
7+10	0.0478	0.14	Q V
7+15	0.0488	0.14	Q V
7+20	0.0498	0.15	Q V

7+25	0.0509	0.15	Q	V				
7+30	0.0519	0.15	Q	V				
7+35	0.0531	0.16	Q	V				
7+40	0.0542	0.17	Q	V				
7+45	0.0554	0.17	Q	V				
7+50	0.0566	0.18	Q	V				
7+55	0.0579	0.18	Q	V				
8+ 0	0.0591	0.18	Q	V				
8+ 5	0.0605	0.20	Q	V				
8+10	0.0620	0.21	Q	V				
8+15	0.0634	0.21	Q	V				
8+20	0.0649	0.21	Q	V				
8+25	0.0663	0.21	Q	V				
8+30	0.0678	0.21	Q	V				
8+35	0.0693	0.22	Q	V				
8+40	0.0708	0.22	Q	V				
8+45	0.0724	0.22	Q	V				
8+50	0.0740	0.23	Q	V				
8+55	0.0757	0.24	Q	V				
9+ 0	0.0773	0.24	Q	V				
9+ 5	0.0791	0.26	Q	V				
9+10	0.0809	0.27	Q	V				
9+15	0.0828	0.27	Q	V				
9+20	0.0847	0.28	Q	V				
9+25	0.0866	0.28	Q	V				
9+30	0.0885	0.28	Q	V				
9+35	0.0905	0.29	Q	V				
9+40	0.0926	0.30	Q	V				
9+45	0.0946	0.30	Q	V				
9+50	0.0967	0.30	Q	V				
9+55	0.0988	0.31	Q	V				
10+ 0	0.1010	0.31	Q	V				
10+ 5	0.1026	0.24	Q	V				
10+10	0.1041	0.21	Q	V				
10+15	0.1055	0.21	Q	V				
10+20	0.1070	0.21	Q	V				
10+25	0.1084	0.21	Q	V				
10+30	0.1099	0.21	Q	V				
10+35	0.1117	0.26	Q	V				
10+40	0.1136	0.28	Q	V				
10+45	0.1155	0.28	Q	V				
10+50	0.1175	0.28	Q	V				
10+55	0.1194	0.28	Q	V				
11+ 0	0.1213	0.28	Q	V				
11+ 5	0.1232	0.27	Q	V				
11+10	0.1251	0.27	Q	V				
11+15	0.1269	0.27	Q	V				
11+20	0.1287	0.27	Q	V				
11+25	0.1306	0.27	Q	V				
11+30	0.1324	0.27	Q	V				

11+35	0.1341	0.25	Q	V			
11+40	0.1358	0.24	Q	V			
11+45	0.1374	0.24	Q	V			
11+50	0.1391	0.25	Q	V			
11+55	0.1409	0.25	Q	V			
12+ 0	0.1426	0.25	Q	V			
12+ 5	0.1448	0.32	Q	V			
12+10	0.1472	0.35	Q	V			
12+15	0.1496	0.35	Q	V			
12+20	0.1521	0.36	Q	V			
12+25	0.1547	0.37	Q	V			
12+30	0.1572	0.37	Q	V			
12+35	0.1598	0.38	Q	V			
12+40	0.1625	0.39	Q	V			
12+45	0.1652	0.39	Q	V			
12+50	0.1680	0.40	Q	V			
12+55	0.1708	0.41	Q	V			
13+ 0	0.1737	0.41	Q	V			
13+ 5	0.1769	0.47	Q	V			
13+10	0.1803	0.50	Q	V			
13+15	0.1838	0.50	Q	V			
13+20	0.1872	0.50	Q	V			
13+25	0.1907	0.50	Q	V			
13+30	0.1941	0.50	Q	V			
13+35	0.1968	0.38	Q	V			
13+40	0.1990	0.32	Q	V			
13+45	0.2012	0.32	Q	V			
13+50	0.2034	0.32	Q	V			
13+55	0.2057	0.32	Q	V			
14+ 0	0.2079	0.32	Q	V			
14+ 5	0.2104	0.36	Q	V			
14+10	0.2130	0.38	Q	V			
14+15	0.2156	0.38	Q	V			
14+20	0.2182	0.37	Q	V			
14+25	0.2207	0.37	Q	V			
14+30	0.2232	0.37	Q	V			
14+35	0.2258	0.37	Q	V			
14+40	0.2283	0.37	Q	V			
14+45	0.2308	0.37	Q	V			
14+50	0.2333	0.36	Q	V			
14+55	0.2357	0.35	Q	V			
15+ 0	0.2381	0.35	Q	V			
15+ 5	0.2405	0.34	Q	V			
15+10	0.2428	0.34	Q	V			
15+15	0.2451	0.34	Q	V			
15+20	0.2474	0.33	Q	V			
15+25	0.2496	0.32	Q	V			
15+30	0.2518	0.32	Q	V			
15+35	0.2538	0.28	Q	V			
15+40	0.2556	0.27	Q	V			

15+45	0.2575	0.27	Q				V
15+50	0.2593	0.27	Q				V
15+55	0.2611	0.27	Q				V
16+ 0	0.2630	0.27	Q				V
16+ 5	0.2638	0.12	Q				V
16+10	0.2642	0.06	Q				V
16+15	0.2646	0.06	Q				V
16+20	0.2650	0.06	Q				V
16+25	0.2654	0.06	Q				V
16+30	0.2658	0.06	Q				V
16+35	0.2661	0.05	Q				V
16+40	0.2664	0.04	Q				V
16+45	0.2667	0.04	Q				V
16+50	0.2669	0.04	Q				V
16+55	0.2672	0.04	Q				V
17+ 0	0.2675	0.04	Q				V
17+ 5	0.2680	0.06	Q				V
17+10	0.2684	0.07	Q				V
17+15	0.2689	0.07	Q				V
17+20	0.2694	0.07	Q				V
17+25	0.2699	0.07	Q				V
17+30	0.2704	0.07	Q				V
17+35	0.2709	0.07	Q				V
17+40	0.2713	0.07	Q				V
17+45	0.2718	0.07	Q				V
17+50	0.2722	0.06	Q				V
17+55	0.2726	0.06	Q				V
18+ 0	0.2730	0.06	Q				V
18+ 5	0.2734	0.06	Q				V
18+10	0.2738	0.06	Q				V
18+15	0.2742	0.06	Q				V
18+20	0.2746	0.06	Q				V
18+25	0.2750	0.06	Q				V
18+30	0.2753	0.06	Q				V
18+35	0.2757	0.05	Q				V
18+40	0.2760	0.04	Q				V
18+45	0.2762	0.04	Q				V
18+50	0.2765	0.03	Q				V
18+55	0.2767	0.03	Q				V
19+ 0	0.2769	0.03	Q				V
19+ 5	0.2771	0.04	Q				V
19+10	0.2774	0.04	Q				V
19+15	0.2777	0.04	Q				V
19+20	0.2780	0.05	Q				V
19+25	0.2784	0.06	Q				V
19+30	0.2788	0.06	Q				V
19+35	0.2791	0.05	Q				V
19+40	0.2794	0.04	Q				V
19+45	0.2797	0.04	Q				V
19+50	0.2799	0.03	Q				V

19+55	0.2801	0.03	Q				V
20+ 0	0.2803	0.03	Q				V
20+ 5	0.2806	0.04	Q				V
20+10	0.2809	0.04	Q				V
20+15	0.2812	0.04	Q				V
20+20	0.2815	0.04	Q				V
20+25	0.2818	0.04	Q				V
20+30	0.2820	0.04	Q				V
20+35	0.2823	0.04	Q				V
20+40	0.2826	0.04	Q				V
20+45	0.2829	0.04	Q				V
20+50	0.2831	0.03	Q				V
20+55	0.2833	0.03	Q				V
21+ 0	0.2835	0.03	Q				V
21+ 5	0.2838	0.04	Q				V
21+10	0.2841	0.04	Q				V
21+15	0.2844	0.04	Q				V
21+20	0.2846	0.03	Q				V
21+25	0.2848	0.03	Q				V
21+30	0.2850	0.03	Q				V
21+35	0.2852	0.04	Q				V
21+40	0.2855	0.04	Q				V
21+45	0.2858	0.04	Q				V
21+50	0.2860	0.03	Q				V
21+55	0.2862	0.03	Q				V
22+ 0	0.2864	0.03	Q				V
22+ 5	0.2867	0.04	Q				V
22+10	0.2870	0.04	Q				V
22+15	0.2873	0.04	Q				V
22+20	0.2875	0.03	Q				V
22+25	0.2877	0.03	Q				V
22+30	0.2879	0.03	Q				V
22+35	0.2881	0.03	Q				V
22+40	0.2883	0.03	Q				V
22+45	0.2885	0.03	Q				V
22+50	0.2887	0.03	Q				V
22+55	0.2889	0.03	Q				V
23+ 0	0.2890	0.03	Q				V
23+ 5	0.2892	0.03	Q				V
23+10	0.2894	0.03	Q				V
23+15	0.2896	0.03	Q				V
23+20	0.2898	0.03	Q				V
23+25	0.2900	0.03	Q				V
23+30	0.2902	0.03	Q				V
23+35	0.2904	0.03	Q				V
23+40	0.2906	0.03	Q				V
23+45	0.2908	0.03	Q				V
23+50	0.2910	0.03	Q				V
23+55	0.2912	0.03	Q				V
24+ 0	0.2914	0.03	Q				V

24+ 5

0.2914

0.01 Q

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DMA 3 Proposed 100-Year

Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-1HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	0.48	0.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.25	1.77

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.480(In)
 Area Averaged 100-Year Rainfall = 1.250(In)

Point rain (area averaged) = 1.250(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.250(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.869	0.042	1.000	0.042
Sum (F) =						0.042

Area averaged mean soil loss (F) (In/Hr) = 0.042
 Minimum soil loss rate ((In/Hr)) = 0.021
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

 Slope of intensity-duration curve for a 1 hour storm =0.4800

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	454.945	0.979
2	0.167	909.890	0.449
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	4.40	0.660	0.042	(0.135)	0.618
2	0.17	4.50	0.675	0.042	(0.138)	0.633
3	0.25	5.40	0.810	0.042	(0.166)	0.768
4	0.33	5.40	0.810	0.042	(0.166)	0.768
5	0.42	5.70	0.855	0.042	(0.175)	0.813
6	0.50	6.40	0.960	0.042	(0.197)	0.918
7	0.58	7.90	1.185	0.042	(0.243)	1.143
8	0.67	9.10	1.365	0.042	(0.280)	1.323
9	0.75	12.80	1.920	0.042	(0.394)	1.878
10	0.83	25.60	3.840	0.042	(0.787)	3.798
11	0.92	7.90	1.185	0.042	(0.243)	1.143
12	1.00	4.90	0.735	0.042	(0.151)	0.693

(Loss Rate Not Used)

Sum = 100.0 Sum = 14.5

Flood volume = Effective rainfall 1.21(In)
times area 1.4(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 0.04(In)
Total soil loss = 0.005(Ac.Ft)
Total rainfall = 1.25(In)
Flood volume = 6212.3 Cubic Feet
Total soil loss = 217.3 Cubic Feet

Peak flow rate of this hydrograph = 4.563(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0042	0.60	VQ				
0+10	0.0103	0.90	VQ				
0+15	0.0175	1.04	Q				
0+20	0.0250	1.10	Q V				
0+25	0.0329	1.14	Q V				
0+30	0.0416	1.26	Q V				
0+35	0.0521	1.53	Q V				
0+40	0.0646	1.81	Q V				
0+45	0.0814	2.43	Q V				
0+50	0.1128	4.56	Q V				
0+55	0.1323	2.83	Q V				
1+ 0	0.1405	1.19	Q V				

1+ 5

0.1426

0.31 |Q

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Unit Hydrograph Analysis

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-3HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	0.80	1.13

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.95	2.76

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 0.800(In)
 Area Averaged 100-Year Rainfall = 1.950(In)

Point rain (area averaged) = 1.950(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.950(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.869	0.042	1.000	0.042
Sum (F) =						0.042

Area averaged mean soil loss (F) (In/Hr) = 0.042
 Minimum soil loss rate ((In/Hr)) = 0.021
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	1.30	0.304	0.042	(0.062)	0.262
2	0.17	1.30	0.304	0.042	(0.062)	0.262
3	0.25	1.10	0.257	0.042	(0.053)	0.215
4	0.33	1.50	0.351	0.042	(0.072)	0.309
5	0.42	1.50	0.351	0.042	(0.072)	0.309
6	0.50	1.80	0.421	0.042	(0.086)	0.379
7	0.58	1.50	0.351	0.042	(0.072)	0.309
8	0.67	1.80	0.421	0.042	(0.086)	0.379
9	0.75	1.80	0.421	0.042	(0.086)	0.379
10	0.83	1.50	0.351	0.042	(0.072)	0.309
11	0.92	1.60	0.374	0.042	(0.077)	0.332
12	1.00	1.80	0.421	0.042	(0.086)	0.379
13	1.08	2.20	0.515	0.042	(0.106)	0.473
14	1.17	2.20	0.515	0.042	(0.106)	0.473
15	1.25	2.20	0.515	0.042	(0.106)	0.473
16	1.33	2.00	0.468	0.042	(0.096)	0.426
17	1.42	2.60	0.608	0.042	(0.125)	0.566
18	1.50	2.70	0.632	0.042	(0.130)	0.590
19	1.58	2.40	0.562	0.042	(0.115)	0.519
20	1.67	2.70	0.632	0.042	(0.130)	0.590
21	1.75	3.30	0.772	0.042	(0.158)	0.730
22	1.83	3.10	0.725	0.042	(0.149)	0.683
23	1.92	2.90	0.679	0.042	(0.139)	0.636
24	2.00	3.00	0.702	0.042	(0.144)	0.660
25	2.08	3.10	0.725	0.042	(0.149)	0.683
26	2.17	4.20	0.983	0.042	(0.201)	0.941
27	2.25	5.00	1.170	0.042	(0.240)	1.128
28	2.33	3.50	0.819	0.042	(0.168)	0.777
29	2.42	6.80	1.591	0.042	(0.326)	1.549
30	2.50	7.30	1.708	0.042	(0.350)	1.666
31	2.58	8.20	1.919	0.042	(0.393)	1.877
32	2.67	5.90	1.381	0.042	(0.283)	1.338
33	2.75	2.00	0.468	0.042	(0.096)	0.426
34	2.83	1.80	0.421	0.042	(0.086)	0.379
35	2.92	1.80	0.421	0.042	(0.086)	0.379
36	3.00	0.60	0.140	(0.042)	0.029	0.112

(Loss Rate Not Used)

Sum = 100.0

Sum = 21.9

Flood volume = Effective rainfall 1.82(In)
times area 1.4(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 0.13(In)
Total soil loss = 0.015(Ac.Ft)
Total rainfall = 1.95(In)
Flood volume = 9384.2 Cubic Feet
Total soil loss = 646.0 Cubic Feet

Peak flow rate of this hydrograph = 2.587(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	2.5	5.0	7.5	10.0
0+ 5	0.0018		0.26	VQ				
0+10	0.0043		0.37	VQ				
0+15	0.0066		0.33	Q				
0+20	0.0094		0.40	Q				
0+25	0.0124		0.44	QV				
0+30	0.0159		0.51	Q				
0+35	0.0192		0.47	Q V				
0+40	0.0227		0.51	Q V				
0+45	0.0264		0.54	Q V				
0+50	0.0297		0.47	Q V				
0+55	0.0329		0.46	Q V				
1+ 0	0.0364		0.52	Q V				
1+ 5	0.0408		0.63	Q V				
1+10	0.0454		0.68	Q V				
1+15	0.0501		0.68	Q V				
1+20	0.0544		0.63	Q V				
1+25	0.0596		0.75	Q V				
1+30	0.0653		0.83	Q V				
1+35	0.0706		0.77	Q V				
1+40	0.0762		0.81	Q V				
1+45	0.0830		0.98	Q V				
1+50	0.0898		1.00	Q V				
1+55	0.0962		0.93	Q V				
2+ 0	0.1027		0.93	Q V				
2+ 5	0.1093		0.97	Q V				
2+10	0.1178		1.23	Q V				
2+15	0.1283		1.53	Q V				
2+20	0.1370		1.27	Q V				
2+25	0.1499		1.87	Q V				
2+30	0.1659		2.33	Q V				
2+35	0.1837		2.59	Q V				
2+40	0.1985		2.15	Q V				
2+45	0.2056		1.02	Q V				
2+50	0.2094		0.56	Q V				
2+55	0.2132		0.54	Q V				
3+ 0	0.2151		0.28	Q V				
3+ 5	0.2154		0.05	Q V				

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH6100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-6HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	1.10	1.56

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	2.70	3.83

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.100(In)
 Area Averaged 100-Year Rainfall = 2.700(In)

Point rain (area averaged) = 2.700(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 2.700(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.869	0.042	1.000	0.042
Sum (F) =						0.042

Area averaged mean soil loss (F) (In/Hr) = 0.042
 Minimum soil loss rate ((In/Hr)) = 0.021
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.50	0.162	(0.042)	0.033	0.129
2	0.17	0.60	0.194	(0.042)	0.040	0.155
3	0.25	0.60	0.194	(0.042)	0.040	0.155
4	0.33	0.60	0.194	(0.042)	0.040	0.155
5	0.42	0.60	0.194	(0.042)	0.040	0.155
6	0.50	0.70	0.227	0.042	(0.046)	0.185
7	0.58	0.70	0.227	0.042	(0.046)	0.185
8	0.67	0.70	0.227	0.042	(0.046)	0.185
9	0.75	0.70	0.227	0.042	(0.046)	0.185
10	0.83	0.70	0.227	0.042	(0.046)	0.185
11	0.92	0.70	0.227	0.042	(0.046)	0.185
12	1.00	0.80	0.259	0.042	(0.053)	0.217
13	1.08	0.80	0.259	0.042	(0.053)	0.217
14	1.17	0.80	0.259	0.042	(0.053)	0.217
15	1.25	0.80	0.259	0.042	(0.053)	0.217
16	1.33	0.80	0.259	0.042	(0.053)	0.217
17	1.42	0.80	0.259	0.042	(0.053)	0.217
18	1.50	0.80	0.259	0.042	(0.053)	0.217
19	1.58	0.80	0.259	0.042	(0.053)	0.217
20	1.67	0.80	0.259	0.042	(0.053)	0.217
21	1.75	0.80	0.259	0.042	(0.053)	0.217
22	1.83	0.80	0.259	0.042	(0.053)	0.217
23	1.92	0.80	0.259	0.042	(0.053)	0.217
24	2.00	0.90	0.292	0.042	(0.060)	0.249
25	2.08	0.80	0.259	0.042	(0.053)	0.217
26	2.17	0.90	0.292	0.042	(0.060)	0.249
27	2.25	0.90	0.292	0.042	(0.060)	0.249
28	2.33	0.90	0.292	0.042	(0.060)	0.249
29	2.42	0.90	0.292	0.042	(0.060)	0.249
30	2.50	0.90	0.292	0.042	(0.060)	0.249
31	2.58	0.90	0.292	0.042	(0.060)	0.249
32	2.67	0.90	0.292	0.042	(0.060)	0.249
33	2.75	1.00	0.324	0.042	(0.066)	0.282
34	2.83	1.00	0.324	0.042	(0.066)	0.282
35	2.92	1.00	0.324	0.042	(0.066)	0.282
36	3.00	1.00	0.324	0.042	(0.066)	0.282
37	3.08	1.00	0.324	0.042	(0.066)	0.282
38	3.17	1.10	0.356	0.042	(0.073)	0.314
39	3.25	1.10	0.356	0.042	(0.073)	0.314
40	3.33	1.10	0.356	0.042	(0.073)	0.314
41	3.42	1.20	0.389	0.042	(0.080)	0.347
42	3.50	1.30	0.421	0.042	(0.086)	0.379
43	3.58	1.40	0.454	0.042	(0.093)	0.411
44	3.67	1.40	0.454	0.042	(0.093)	0.411
45	3.75	1.50	0.486	0.042	(0.100)	0.444
46	3.83	1.50	0.486	0.042	(0.100)	0.444
47	3.92	1.60	0.518	0.042	(0.106)	0.476

48	4.00	1.60	0.518	0.042	(0.106)	0.476
49	4.08	1.70	0.551	0.042	(0.113)	0.509
50	4.17	1.80	0.583	0.042	(0.120)	0.541
51	4.25	1.90	0.616	0.042	(0.126)	0.573
52	4.33	2.00	0.648	0.042	(0.133)	0.606
53	4.42	2.10	0.680	0.042	(0.139)	0.638
54	4.50	2.10	0.680	0.042	(0.139)	0.638
55	4.58	2.20	0.713	0.042	(0.146)	0.671
56	4.67	2.30	0.745	0.042	(0.153)	0.703
57	4.75	2.40	0.778	0.042	(0.159)	0.735
58	4.83	2.40	0.778	0.042	(0.159)	0.735
59	4.92	2.50	0.810	0.042	(0.166)	0.768
60	5.00	2.60	0.842	0.042	(0.173)	0.800
61	5.08	3.10	1.004	0.042	(0.206)	0.962
62	5.17	3.60	1.166	0.042	(0.239)	1.124
63	5.25	3.90	1.264	0.042	(0.259)	1.221
64	5.33	4.20	1.361	0.042	(0.279)	1.319
65	5.42	4.70	1.523	0.042	(0.312)	1.481
66	5.50	5.60	1.814	0.042	(0.372)	1.772
67	5.58	1.90	0.616	0.042	(0.126)	0.573
68	5.67	0.90	0.292	0.042	(0.060)	0.249
69	5.75	0.60	0.194	(0.042)	0.040	0.155
70	5.83	0.50	0.162	(0.042)	0.033	0.129
71	5.92	0.30	0.097	(0.042)	0.020	0.077
72	6.00	0.20	0.065	(0.042)	0.013	0.052

(Loss Rate Not Used)

Sum = 100.0 Sum = 29.4

Flood volume = Effective rainfall 2.45(In)
times area 1.4(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 0.25(In)
Total soil loss = 0.029(Ac.Ft)
Total rainfall = 2.70(In)
Flood volume = 12619.2 Cubic Feet
Total soil loss = 1268.7 Cubic Feet

Peak flow rate of this hydrograph = 2.401(CFS)

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

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0009	0.13	Q				
0+10	0.0023	0.21	Q				
0+15	0.0038	0.22	Q				
0+20	0.0054	0.22	Q				

0+25	0.0069	0.22	Q				
0+30	0.0086	0.25	Q				
0+35	0.0104	0.26	Q				
0+40	0.0122	0.26	Q				
0+45	0.0140	0.26	Q				
0+50	0.0159	0.26	QV				
0+55	0.0177	0.26	QV				
1+ 0	0.0197	0.30	QV				
1+ 5	0.0218	0.31	Q V				
1+10	0.0240	0.31	Q V				
1+15	0.0261	0.31	Q V				
1+20	0.0283	0.31	Q V				
1+25	0.0304	0.31	Q V				
1+30	0.0325	0.31	Q V				
1+35	0.0347	0.31	Q V				
1+40	0.0368	0.31	Q V				
1+45	0.0389	0.31	Q V				
1+50	0.0411	0.31	Q V				
1+55	0.0432	0.31	Q V				
2+ 0	0.0455	0.34	Q V				
2+ 5	0.0478	0.32	Q V				
2+10	0.0501	0.34	Q V				
2+15	0.0526	0.36	Q V				
2+20	0.0550	0.36	Q V				
2+25	0.0575	0.36	Q V				
2+30	0.0600	0.36	Q V				
2+35	0.0624	0.36	Q V				
2+40	0.0649	0.36	Q V				
2+45	0.0675	0.39	Q V				
2+50	0.0703	0.40	Q V				
2+55	0.0731	0.40	Q V				
3+ 0	0.0758	0.40	Q V				
3+ 5	0.0786	0.40	Q V				
3+10	0.0816	0.43	Q V				
3+15	0.0847	0.45	Q V				
3+20	0.0878	0.45	Q V				
3+25	0.0911	0.48	Q V				
3+30	0.0947	0.53	Q V				
3+35	0.0987	0.57	Q V				
3+40	0.1027	0.59	Q V				
3+45	0.1070	0.62	Q V				
3+50	0.1114	0.63	Q V				
3+55	0.1159	0.67	Q V				
4+ 0	0.1206	0.68	Q V				
4+ 5	0.1255	0.71	Q V				
4+10	0.1308	0.76	Q V				
4+15	0.1363	0.80	Q V				
4+20	0.1422	0.85	Q V				
4+25	0.1483	0.90	Q V				
4+30	0.1546	0.91	Q V				

4+35	0.1611	0.94	Q		V		
4+40	0.1679	0.99	Q		V		
4+45	0.1751	1.04	Q		V		
4+50	0.1823	1.05	Q		V		
4+55	0.1898	1.08	Q		V		
5+ 0	0.1975	1.13	Q		V		
5+ 5	0.2065	1.30	Q		V		
5+10	0.2171	1.53	Q	Q	V		
5+15	0.2288	1.70	Q	Q	V	V	
5+20	0.2415	1.84	Q	Q	V	V	
5+25	0.2555	2.04	Q	Q	V	V	
5+30	0.2721	2.40	Q	Q	V	V	
5+35	0.2814	1.36	Q		V	V	
5+40	0.2849	0.50	Q		V	V	
5+45	0.2867	0.26	Q		V	V	
5+50	0.2880	0.20	Q		V	V	
5+55	0.2890	0.13	Q		V	V	
6+ 0	0.2895	0.09	Q		V	V	
6+ 5	0.2897	0.02	Q		V	V	

Unit Hydrograph Analysis

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Study date 08/02/22 File: A21626DMA3Q100UH24100.out

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

Program License Serial Number 6509

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

English Units used in output format

A21626 PROPOSED 100YR-24HR UH

Drainage Area = 1.42(Ac.) = 0.002 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 1.42(Ac.) =
0.002 Sq. Mi.
Length along longest watercourse = 440.21(Ft.)
Length along longest watercourse measured to centroid = 326.50(Ft.)
Length along longest watercourse = 0.083 Mi.
Length along longest watercourse measured to centroid = 0.062 Mi.
Difference in elevation = 6.70(Ft.)
Slope along watercourse = 80.3616 Ft./Mi.
Average Manning's 'N' = 0.013
Lag time = 0.018 Hr.
Lag time = 1.10 Min.
25% of lag time = 0.27 Min.
40% of lag time = 0.44 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]
1.42	1.90	2.69

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1.42	4.80	6.80

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.900(In)
 Area Averaged 100-Year Rainfall = 4.800(In)

Point rain (area averaged) = 4.800(In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 4.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
1.417	69.00	0.869
Total Area Entered = 1.42(Ac.)		

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-3	(In/Hr)	(Dec.%)	(In/Hr)	(Dec.)	(In/Hr)
69.0	84.4	0.194	0.869	0.042	1.000	0.042
Sum (F) =						0.042

Area averaged mean soil loss (F) (In/Hr) = 0.042
 Minimum soil loss rate ((In/Hr)) = 0.021
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.205

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

Unit Hydrograph Data

Unit time period	Time % of lag	Distribution	Unit Hydrograph
(hrs)		Graph %	(CFS)
1	0.083	454.945	68.526
2	0.167	909.890	31.474
		Sum = 100.000	Sum= 1.428

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)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.038	(0.075)	0.008	0.031
2	0.17	0.07	0.038	(0.075)	0.008	0.031
3	0.25	0.07	0.038	(0.074)	0.008	0.031
4	0.33	0.10	0.058	(0.074)	0.012	0.046
5	0.42	0.10	0.058	(0.074)	0.012	0.046
6	0.50	0.10	0.058	(0.073)	0.012	0.046
7	0.58	0.10	0.058	(0.073)	0.012	0.046
8	0.67	0.10	0.058	(0.073)	0.012	0.046
9	0.75	0.10	0.058	(0.073)	0.012	0.046
10	0.83	0.13	0.077	(0.072)	0.016	0.061
11	0.92	0.13	0.077	(0.072)	0.016	0.061
12	1.00	0.13	0.077	(0.072)	0.016	0.061
13	1.08	0.10	0.058	(0.071)	0.012	0.046
14	1.17	0.10	0.058	(0.071)	0.012	0.046
15	1.25	0.10	0.058	(0.071)	0.012	0.046
16	1.33	0.10	0.058	(0.071)	0.012	0.046
17	1.42	0.10	0.058	(0.070)	0.012	0.046
18	1.50	0.10	0.058	(0.070)	0.012	0.046
19	1.58	0.10	0.058	(0.070)	0.012	0.046
20	1.67	0.10	0.058	(0.069)	0.012	0.046
21	1.75	0.10	0.058	(0.069)	0.012	0.046
22	1.83	0.13	0.077	(0.069)	0.016	0.061
23	1.92	0.13	0.077	(0.069)	0.016	0.061
24	2.00	0.13	0.077	(0.068)	0.016	0.061
25	2.08	0.13	0.077	(0.068)	0.016	0.061
26	2.17	0.13	0.077	(0.068)	0.016	0.061
27	2.25	0.13	0.077	(0.068)	0.016	0.061
28	2.33	0.13	0.077	(0.067)	0.016	0.061
29	2.42	0.13	0.077	(0.067)	0.016	0.061
30	2.50	0.13	0.077	(0.067)	0.016	0.061
31	2.58	0.17	0.096	(0.066)	0.020	0.076
32	2.67	0.17	0.096	(0.066)	0.020	0.076
33	2.75	0.17	0.096	(0.066)	0.020	0.076
34	2.83	0.17	0.096	(0.066)	0.020	0.076
35	2.92	0.17	0.096	(0.065)	0.020	0.076
36	3.00	0.17	0.096	(0.065)	0.020	0.076
37	3.08	0.17	0.096	(0.065)	0.020	0.076
38	3.17	0.17	0.096	(0.065)	0.020	0.076
39	3.25	0.17	0.096	(0.064)	0.020	0.076
40	3.33	0.17	0.096	(0.064)	0.020	0.076
41	3.42	0.17	0.096	(0.064)	0.020	0.076
42	3.50	0.17	0.096	(0.063)	0.020	0.076
43	3.58	0.17	0.096	(0.063)	0.020	0.076
44	3.67	0.17	0.096	(0.063)	0.020	0.076
45	3.75	0.17	0.096	(0.063)	0.020	0.076
46	3.83	0.20	0.115	(0.062)	0.024	0.092
47	3.92	0.20	0.115	(0.062)	0.024	0.092

48	4.00	0.20	0.115	(0.062)	0.024	0.092
49	4.08	0.20	0.115	(0.062)	0.024	0.092
50	4.17	0.20	0.115	(0.061)	0.024	0.092
51	4.25	0.20	0.115	(0.061)	0.024	0.092
52	4.33	0.23	0.134	(0.061)	0.028	0.107
53	4.42	0.23	0.134	(0.061)	0.028	0.107
54	4.50	0.23	0.134	(0.060)	0.028	0.107
55	4.58	0.23	0.134	(0.060)	0.028	0.107
56	4.67	0.23	0.134	(0.060)	0.028	0.107
57	4.75	0.23	0.134	(0.060)	0.028	0.107
58	4.83	0.27	0.154	(0.059)	0.031	0.122
59	4.92	0.27	0.154	(0.059)	0.031	0.122
60	5.00	0.27	0.154	(0.059)	0.031	0.122
61	5.08	0.20	0.115	(0.059)	0.024	0.092
62	5.17	0.20	0.115	(0.058)	0.024	0.092
63	5.25	0.20	0.115	(0.058)	0.024	0.092
64	5.33	0.23	0.134	(0.058)	0.028	0.107
65	5.42	0.23	0.134	(0.058)	0.028	0.107
66	5.50	0.23	0.134	(0.057)	0.028	0.107
67	5.58	0.27	0.154	(0.057)	0.031	0.122
68	5.67	0.27	0.154	(0.057)	0.031	0.122
69	5.75	0.27	0.154	(0.056)	0.031	0.122
70	5.83	0.27	0.154	(0.056)	0.031	0.122
71	5.92	0.27	0.154	(0.056)	0.031	0.122
72	6.00	0.27	0.154	(0.056)	0.031	0.122
73	6.08	0.30	0.173	(0.056)	0.035	0.137
74	6.17	0.30	0.173	(0.055)	0.035	0.137
75	6.25	0.30	0.173	(0.055)	0.035	0.137
76	6.33	0.30	0.173	(0.055)	0.035	0.137
77	6.42	0.30	0.173	(0.055)	0.035	0.137
78	6.50	0.30	0.173	(0.054)	0.035	0.137
79	6.58	0.33	0.192	(0.054)	0.039	0.153
80	6.67	0.33	0.192	(0.054)	0.039	0.153
81	6.75	0.33	0.192	(0.054)	0.039	0.153
82	6.83	0.33	0.192	(0.053)	0.039	0.153
83	6.92	0.33	0.192	(0.053)	0.039	0.153
84	7.00	0.33	0.192	(0.053)	0.039	0.153
85	7.08	0.33	0.192	(0.053)	0.039	0.153
86	7.17	0.33	0.192	(0.052)	0.039	0.153
87	7.25	0.33	0.192	(0.052)	0.039	0.153
88	7.33	0.37	0.211	(0.052)	0.043	0.168
89	7.42	0.37	0.211	(0.052)	0.043	0.168
90	7.50	0.37	0.211	(0.051)	0.043	0.168
91	7.58	0.40	0.230	(0.051)	0.047	0.183
92	7.67	0.40	0.230	(0.051)	0.047	0.183
93	7.75	0.40	0.230	(0.051)	0.047	0.183
94	7.83	0.43	0.250	0.050	(0.051)	0.199
95	7.92	0.43	0.250	0.050	(0.051)	0.199
96	8.00	0.43	0.250	0.050	(0.051)	0.200
97	8.08	0.50	0.288	0.050	(0.059)	0.238

98	8.17	0.50	0.288	0.050	(0.059)	0.238
99	8.25	0.50	0.288	0.049	(0.059)	0.239
100	8.33	0.50	0.288	0.049	(0.059)	0.239
101	8.42	0.50	0.288	0.049	(0.059)	0.239
102	8.50	0.50	0.288	0.049	(0.059)	0.239
103	8.58	0.53	0.307	0.048	(0.063)	0.259
104	8.67	0.53	0.307	0.048	(0.063)	0.259
105	8.75	0.53	0.307	0.048	(0.063)	0.259
106	8.83	0.57	0.326	0.048	(0.067)	0.279
107	8.92	0.57	0.326	0.047	(0.067)	0.279
108	9.00	0.57	0.326	0.047	(0.067)	0.279
109	9.08	0.63	0.365	0.047	(0.075)	0.318
110	9.17	0.63	0.365	0.047	(0.075)	0.318
111	9.25	0.63	0.365	0.047	(0.075)	0.318
112	9.33	0.67	0.384	0.046	(0.079)	0.338
113	9.42	0.67	0.384	0.046	(0.079)	0.338
114	9.50	0.67	0.384	0.046	(0.079)	0.338
115	9.58	0.70	0.403	0.046	(0.083)	0.358
116	9.67	0.70	0.403	0.045	(0.083)	0.358
117	9.75	0.70	0.403	0.045	(0.083)	0.358
118	9.83	0.73	0.422	0.045	(0.087)	0.377
119	9.92	0.73	0.422	0.045	(0.087)	0.378
120	10.00	0.73	0.422	0.045	(0.087)	0.378
121	10.08	0.50	0.288	0.044	(0.059)	0.244
122	10.17	0.50	0.288	0.044	(0.059)	0.244
123	10.25	0.50	0.288	0.044	(0.059)	0.244
124	10.33	0.50	0.288	0.044	(0.059)	0.244
125	10.42	0.50	0.288	0.044	(0.059)	0.244
126	10.50	0.50	0.288	0.043	(0.059)	0.245
127	10.58	0.67	0.384	0.043	(0.079)	0.341
128	10.67	0.67	0.384	0.043	(0.079)	0.341
129	10.75	0.67	0.384	0.043	(0.079)	0.341
130	10.83	0.67	0.384	0.042	(0.079)	0.342
131	10.92	0.67	0.384	0.042	(0.079)	0.342
132	11.00	0.67	0.384	0.042	(0.079)	0.342
133	11.08	0.63	0.365	0.042	(0.075)	0.323
134	11.17	0.63	0.365	0.042	(0.075)	0.323
135	11.25	0.63	0.365	0.041	(0.075)	0.323
136	11.33	0.63	0.365	0.041	(0.075)	0.324
137	11.42	0.63	0.365	0.041	(0.075)	0.324
138	11.50	0.63	0.365	0.041	(0.075)	0.324
139	11.58	0.57	0.326	0.041	(0.067)	0.286
140	11.67	0.57	0.326	0.040	(0.067)	0.286
141	11.75	0.57	0.326	0.040	(0.067)	0.286
142	11.83	0.60	0.346	0.040	(0.071)	0.306
143	11.92	0.60	0.346	0.040	(0.071)	0.306
144	12.00	0.60	0.346	0.040	(0.071)	0.306
145	12.08	0.83	0.480	0.039	(0.098)	0.441
146	12.17	0.83	0.480	0.039	(0.098)	0.441
147	12.25	0.83	0.480	0.039	(0.098)	0.441

148	12.33	0.87	0.499	0.039	(0.102)	0.460
149	12.42	0.87	0.499	0.039	(0.102)	0.461
150	12.50	0.87	0.499	0.038	(0.102)	0.461
151	12.58	0.93	0.538	0.038	(0.110)	0.499
152	12.67	0.93	0.538	0.038	(0.110)	0.500
153	12.75	0.93	0.538	0.038	(0.110)	0.500
154	12.83	0.97	0.557	0.038	(0.114)	0.519
155	12.92	0.97	0.557	0.037	(0.114)	0.519
156	13.00	0.97	0.557	0.037	(0.114)	0.519
157	13.08	1.13	0.653	0.037	(0.134)	0.616
158	13.17	1.13	0.653	0.037	(0.134)	0.616
159	13.25	1.13	0.653	0.037	(0.134)	0.616
160	13.33	1.13	0.653	0.037	(0.134)	0.616
161	13.42	1.13	0.653	0.036	(0.134)	0.616
162	13.50	1.13	0.653	0.036	(0.134)	0.617
163	13.58	0.77	0.442	0.036	(0.091)	0.406
164	13.67	0.77	0.442	0.036	(0.091)	0.406
165	13.75	0.77	0.442	0.036	(0.091)	0.406
166	13.83	0.77	0.442	0.035	(0.091)	0.406
167	13.92	0.77	0.442	0.035	(0.091)	0.406
168	14.00	0.77	0.442	0.035	(0.091)	0.407
169	14.08	0.90	0.518	0.035	(0.106)	0.483
170	14.17	0.90	0.518	0.035	(0.106)	0.484
171	14.25	0.90	0.518	0.035	(0.106)	0.484
172	14.33	0.87	0.499	0.034	(0.102)	0.465
173	14.42	0.87	0.499	0.034	(0.102)	0.465
174	14.50	0.87	0.499	0.034	(0.102)	0.465
175	14.58	0.87	0.499	0.034	(0.102)	0.465
176	14.67	0.87	0.499	0.034	(0.102)	0.466
177	14.75	0.87	0.499	0.034	(0.102)	0.466
178	14.83	0.83	0.480	0.033	(0.098)	0.447
179	14.92	0.83	0.480	0.033	(0.098)	0.447
180	15.00	0.83	0.480	0.033	(0.098)	0.447
181	15.08	0.80	0.461	0.033	(0.094)	0.428
182	15.17	0.80	0.461	0.033	(0.094)	0.428
183	15.25	0.80	0.461	0.032	(0.094)	0.428
184	15.33	0.77	0.442	0.032	(0.091)	0.409
185	15.42	0.77	0.442	0.032	(0.091)	0.409
186	15.50	0.77	0.442	0.032	(0.091)	0.410
187	15.58	0.63	0.365	0.032	(0.075)	0.333
188	15.67	0.63	0.365	0.032	(0.075)	0.333
189	15.75	0.63	0.365	0.031	(0.075)	0.333
190	15.83	0.63	0.365	0.031	(0.075)	0.333
191	15.92	0.63	0.365	0.031	(0.075)	0.334
192	16.00	0.63	0.365	0.031	(0.075)	0.334
193	16.08	0.13	0.077	(0.031)	0.016	0.061
194	16.17	0.13	0.077	(0.031)	0.016	0.061
195	16.25	0.13	0.077	(0.031)	0.016	0.061
196	16.33	0.13	0.077	(0.030)	0.016	0.061
197	16.42	0.13	0.077	(0.030)	0.016	0.061

198	16.50	0.13	0.077	(0.030)	0.016	0.061
199	16.58	0.10	0.058	(0.030)	0.012	0.046
200	16.67	0.10	0.058	(0.030)	0.012	0.046
201	16.75	0.10	0.058	(0.030)	0.012	0.046
202	16.83	0.10	0.058	(0.029)	0.012	0.046
203	16.92	0.10	0.058	(0.029)	0.012	0.046
204	17.00	0.10	0.058	(0.029)	0.012	0.046
205	17.08	0.17	0.096	(0.029)	0.020	0.076
206	17.17	0.17	0.096	(0.029)	0.020	0.076
207	17.25	0.17	0.096	(0.029)	0.020	0.076
208	17.33	0.17	0.096	(0.029)	0.020	0.076
209	17.42	0.17	0.096	(0.028)	0.020	0.076
210	17.50	0.17	0.096	(0.028)	0.020	0.076
211	17.58	0.17	0.096	(0.028)	0.020	0.076
212	17.67	0.17	0.096	(0.028)	0.020	0.076
213	17.75	0.17	0.096	(0.028)	0.020	0.076
214	17.83	0.13	0.077	(0.028)	0.016	0.061
215	17.92	0.13	0.077	(0.028)	0.016	0.061
216	18.00	0.13	0.077	(0.027)	0.016	0.061
217	18.08	0.13	0.077	(0.027)	0.016	0.061
218	18.17	0.13	0.077	(0.027)	0.016	0.061
219	18.25	0.13	0.077	(0.027)	0.016	0.061
220	18.33	0.13	0.077	(0.027)	0.016	0.061
221	18.42	0.13	0.077	(0.027)	0.016	0.061
222	18.50	0.13	0.077	(0.027)	0.016	0.061
223	18.58	0.10	0.058	(0.027)	0.012	0.046
224	18.67	0.10	0.058	(0.026)	0.012	0.046
225	18.75	0.10	0.058	(0.026)	0.012	0.046
226	18.83	0.07	0.038	(0.026)	0.008	0.031
227	18.92	0.07	0.038	(0.026)	0.008	0.031
228	19.00	0.07	0.038	(0.026)	0.008	0.031
229	19.08	0.10	0.058	(0.026)	0.012	0.046
230	19.17	0.10	0.058	(0.026)	0.012	0.046
231	19.25	0.10	0.058	(0.026)	0.012	0.046
232	19.33	0.13	0.077	(0.025)	0.016	0.061
233	19.42	0.13	0.077	(0.025)	0.016	0.061
234	19.50	0.13	0.077	(0.025)	0.016	0.061
235	19.58	0.10	0.058	(0.025)	0.012	0.046
236	19.67	0.10	0.058	(0.025)	0.012	0.046
237	19.75	0.10	0.058	(0.025)	0.012	0.046
238	19.83	0.07	0.038	(0.025)	0.008	0.031
239	19.92	0.07	0.038	(0.025)	0.008	0.031
240	20.00	0.07	0.038	(0.025)	0.008	0.031
241	20.08	0.10	0.058	(0.024)	0.012	0.046
242	20.17	0.10	0.058	(0.024)	0.012	0.046
243	20.25	0.10	0.058	(0.024)	0.012	0.046
244	20.33	0.10	0.058	(0.024)	0.012	0.046
245	20.42	0.10	0.058	(0.024)	0.012	0.046
246	20.50	0.10	0.058	(0.024)	0.012	0.046
247	20.58	0.10	0.058	(0.024)	0.012	0.046

248	20.67	0.10	0.058	(0.024)	0.012	0.046
249	20.75	0.10	0.058	(0.024)	0.012	0.046
250	20.83	0.07	0.038	(0.024)	0.008	0.031
251	20.92	0.07	0.038	(0.023)	0.008	0.031
252	21.00	0.07	0.038	(0.023)	0.008	0.031
253	21.08	0.10	0.058	(0.023)	0.012	0.046
254	21.17	0.10	0.058	(0.023)	0.012	0.046
255	21.25	0.10	0.058	(0.023)	0.012	0.046
256	21.33	0.07	0.038	(0.023)	0.008	0.031
257	21.42	0.07	0.038	(0.023)	0.008	0.031
258	21.50	0.07	0.038	(0.023)	0.008	0.031
259	21.58	0.10	0.058	(0.023)	0.012	0.046
260	21.67	0.10	0.058	(0.023)	0.012	0.046
261	21.75	0.10	0.058	(0.023)	0.012	0.046
262	21.83	0.07	0.038	(0.022)	0.008	0.031
263	21.92	0.07	0.038	(0.022)	0.008	0.031
264	22.00	0.07	0.038	(0.022)	0.008	0.031
265	22.08	0.10	0.058	(0.022)	0.012	0.046
266	22.17	0.10	0.058	(0.022)	0.012	0.046
267	22.25	0.10	0.058	(0.022)	0.012	0.046
268	22.33	0.07	0.038	(0.022)	0.008	0.031
269	22.42	0.07	0.038	(0.022)	0.008	0.031
270	22.50	0.07	0.038	(0.022)	0.008	0.031
271	22.58	0.07	0.038	(0.022)	0.008	0.031
272	22.67	0.07	0.038	(0.022)	0.008	0.031
273	22.75	0.07	0.038	(0.022)	0.008	0.031
274	22.83	0.07	0.038	(0.022)	0.008	0.031
275	22.92	0.07	0.038	(0.022)	0.008	0.031
276	23.00	0.07	0.038	(0.022)	0.008	0.031
277	23.08	0.07	0.038	(0.021)	0.008	0.031
278	23.17	0.07	0.038	(0.021)	0.008	0.031
279	23.25	0.07	0.038	(0.021)	0.008	0.031
280	23.33	0.07	0.038	(0.021)	0.008	0.031
281	23.42	0.07	0.038	(0.021)	0.008	0.031
282	23.50	0.07	0.038	(0.021)	0.008	0.031
283	23.58	0.07	0.038	(0.021)	0.008	0.031
284	23.67	0.07	0.038	(0.021)	0.008	0.031
285	23.75	0.07	0.038	(0.021)	0.008	0.031
286	23.83	0.07	0.038	(0.021)	0.008	0.031
287	23.92	0.07	0.038	(0.021)	0.008	0.031
288	24.00	0.07	0.038	(0.021)	0.008	0.031

(Loss Rate Not Used)

Sum = 100.0

Sum = 50.2

Flood volume = Effective rainfall 4.19(In)
times area 1.4(Ac.)/[(In)/(Ft.)] = 0.5(Ac.Ft)
Total soil loss = 0.61(In)
Total soil loss = 0.073(Ac.Ft)
Total rainfall = 4.80(In)
Flood volume = 21529.0 Cubic Feet
Total soil loss = 3160.8 Cubic Feet

 Peak flow rate of this hydrograph = 0.881(CFS)

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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	0.0002	0.03	Q				
0+10	0.0005	0.04	Q				
0+15	0.0008	0.04	Q				
0+20	0.0012	0.06	Q				
0+25	0.0017	0.07	Q				
0+30	0.0021	0.07	Q				
0+35	0.0026	0.07	Q				
0+40	0.0030	0.07	Q				
0+45	0.0035	0.07	Q				
0+50	0.0040	0.08	Q				
0+55	0.0046	0.09	Q				
1+ 0	0.0052	0.09	Q				
1+ 5	0.0057	0.07	Q				
1+10	0.0062	0.07	Q				
1+15	0.0066	0.07	Q				
1+20	0.0071	0.07	Q				
1+25	0.0075	0.07	Q				
1+30	0.0080	0.07	Q				
1+35	0.0084	0.07	Q				
1+40	0.0089	0.07	Q				
1+45	0.0093	0.07	Q				
1+50	0.0099	0.08	Q				
1+55	0.0105	0.09	Q				
2+ 0	0.0111	0.09	Q				
2+ 5	0.0117	0.09	Q				
2+10	0.0123	0.09	Q				
2+15	0.0129	0.09	QV				
2+20	0.0135	0.09	QV				
2+25	0.0141	0.09	QV				
2+30	0.0147	0.09	QV				
2+35	0.0154	0.10	QV				
2+40	0.0161	0.11	QV				
2+45	0.0169	0.11	QV				
2+50	0.0176	0.11	QV				
2+55	0.0184	0.11	QV				
3+ 0	0.0191	0.11	QV				
3+ 5	0.0199	0.11	QV				
3+10	0.0206	0.11	QV				

3+15	0.0214	0.11	QV
3+20	0.0221	0.11	QV
3+25	0.0229	0.11	QV
3+30	0.0236	0.11	QV
3+35	0.0244	0.11	QV
3+40	0.0251	0.11	Q V
3+45	0.0259	0.11	Q V
3+50	0.0268	0.12	Q V
3+55	0.0277	0.13	Q V
4+ 0	0.0286	0.13	Q V
4+ 5	0.0295	0.13	Q V
4+10	0.0304	0.13	Q V
4+15	0.0313	0.13	Q V
4+20	0.0323	0.15	Q V
4+25	0.0333	0.15	Q V
4+30	0.0344	0.15	Q V
4+35	0.0354	0.15	Q V
4+40	0.0365	0.15	Q V
4+45	0.0375	0.15	Q V
4+50	0.0387	0.17	Q V
4+55	0.0399	0.17	Q V
5+ 0	0.0411	0.17	Q V
5+ 5	0.0421	0.14	Q V
5+10	0.0430	0.13	Q V
5+15	0.0439	0.13	Q V
5+20	0.0449	0.15	Q V
5+25	0.0459	0.15	Q V
5+30	0.0470	0.15	Q V
5+35	0.0481	0.17	Q V
5+40	0.0493	0.17	Q V
5+45	0.0505	0.17	Q V
5+50	0.0517	0.17	Q V
5+55	0.0529	0.17	Q V
6+ 0	0.0541	0.17	Q V
6+ 5	0.0554	0.19	Q V
6+10	0.0568	0.20	Q V
6+15	0.0582	0.20	Q V
6+20	0.0595	0.20	Q V
6+25	0.0609	0.20	Q V
6+30	0.0622	0.20	Q V
6+35	0.0637	0.21	Q V
6+40	0.0652	0.22	Q V
6+45	0.0667	0.22	Q V
6+50	0.0682	0.22	Q V
6+55	0.0697	0.22	Q V
7+ 0	0.0712	0.22	Q V
7+ 5	0.0727	0.22	Q V
7+10	0.0742	0.22	Q V
7+15	0.0757	0.22	Q V
7+20	0.0773	0.23	Q V

7+25	0.0789	0.24	Q	V				
7+30	0.0806	0.24	Q	V				
7+35	0.0823	0.25	Q	V				
7+40	0.0841	0.26	Q	V				
7+45	0.0859	0.26	Q	V				
7+50	0.0879	0.28	Q	V				
7+55	0.0898	0.28	Q	V				
8+ 0	0.0918	0.29	Q	V				
8+ 5	0.0940	0.32	Q	V				
8+10	0.0964	0.34	Q	V				
8+15	0.0987	0.34	Q	V				
8+20	0.1011	0.34	Q	V				
8+25	0.1034	0.34	Q	V				
8+30	0.1058	0.34	Q	V				
8+35	0.1082	0.36	Q	V				
8+40	0.1108	0.37	Q	V				
8+45	0.1133	0.37	Q	V				
8+50	0.1160	0.39	Q	V				
8+55	0.1188	0.40	Q	V				
9+ 0	0.1215	0.40	Q	V				
9+ 5	0.1245	0.44	Q	V				
9+10	0.1277	0.45	Q	V				
9+15	0.1308	0.45	Q	V				
9+20	0.1340	0.47	Q	V				
9+25	0.1374	0.48	Q	V				
9+30	0.1407	0.48	Q	V				
9+35	0.1442	0.50	Q	V				
9+40	0.1477	0.51	Q	V				
9+45	0.1512	0.51	Q	V				
9+50	0.1549	0.53	Q	V				
9+55	0.1586	0.54	Q	V				
10+ 0	0.1623	0.54	Q	V				
10+ 5	0.1651	0.41	Q	V				
10+10	0.1675	0.35	Q	V				
10+15	0.1699	0.35	Q	V				
10+20	0.1723	0.35	Q	V				
10+25	0.1747	0.35	Q	V				
10+30	0.1771	0.35	Q	V				
10+35	0.1802	0.44	Q	V				
10+40	0.1835	0.49	Q	V				
10+45	0.1869	0.49	Q	V				
10+50	0.1902	0.49	Q	V				
10+55	0.1936	0.49	Q	V				
11+ 0	0.1970	0.49	Q	V				
11+ 5	0.2002	0.47	Q	V				
11+10	0.2034	0.46	Q	V				
11+15	0.2066	0.46	Q	V				
11+20	0.2097	0.46	Q	V				
11+25	0.2129	0.46	Q	V				
11+30	0.2161	0.46	Q	V				

11+35	0.2190	0.43	Q	V			
11+40	0.2219	0.41	Q	V			
11+45	0.2247	0.41	Q	V			
11+50	0.2276	0.43	Q	V			
11+55	0.2306	0.44	Q	V			
12+ 0	0.2336	0.44	Q	V			
12+ 5	0.2376	0.57	Q	V			
12+10	0.2419	0.63	Q	V			
12+15	0.2462	0.63	Q	V			
12+20	0.2507	0.65	Q	V			
12+25	0.2552	0.66	Q	V			
12+30	0.2598	0.66	Q	V			
12+35	0.2646	0.70	Q	V			
12+40	0.2695	0.71	Q	V			
12+45	0.2744	0.71	Q	V			
12+50	0.2794	0.73	Q	V			
12+55	0.2846	0.74	Q	V			
13+ 0	0.2897	0.74	Q	V			
13+ 5	0.2954	0.84	Q	V			
13+10	0.3015	0.88	Q	V			
13+15	0.3075	0.88	Q	V			
13+20	0.3136	0.88	Q	V			
13+25	0.3197	0.88	Q	V			
13+30	0.3257	0.88	Q	V			
13+35	0.3304	0.67	Q	V			
13+40	0.3344	0.58	Q	V			
13+45	0.3384	0.58	Q	V			
13+50	0.3424	0.58	Q	V			
13+55	0.3464	0.58	Q	V			
14+ 0	0.3504	0.58	Q	V			
14+ 5	0.3549	0.66	Q	V			
14+10	0.3596	0.69	Q	V			
14+15	0.3644	0.69	Q	V			
14+20	0.3690	0.67	Q	V			
14+25	0.3736	0.66	Q	V			
14+30	0.3782	0.66	Q	V			
14+35	0.3828	0.66	Q	V			
14+40	0.3874	0.67	Q	V			
14+45	0.3919	0.67	Q	V			
14+50	0.3964	0.65	Q	V			
14+55	0.4008	0.64	Q	V			
15+ 0	0.4052	0.64	Q	V			
15+ 5	0.4095	0.62	Q	V			
15+10	0.4137	0.61	Q	V			
15+15	0.4179	0.61	Q	V			
15+20	0.4220	0.59	Q	V			
15+25	0.4260	0.58	Q	V			
15+30	0.4300	0.59	Q	V			
15+35	0.4335	0.51	Q	V			
15+40	0.4368	0.48	Q	V			

15+45	0.4401	0.48	Q				V
15+50	0.4434	0.48	Q				V
15+55	0.4467	0.48	Q				V
16+ 0	0.4499	0.48	Q				V
16+ 5	0.4514	0.21	Q				V
16+10	0.4520	0.09	Q				V
16+15	0.4526	0.09	Q				V
16+20	0.4532	0.09	Q				V
16+25	0.4538	0.09	Q				V
16+30	0.4544	0.09	Q				V
16+35	0.4549	0.07	Q				V
16+40	0.4553	0.07	Q				V
16+45	0.4558	0.07	Q				V
16+50	0.4562	0.07	Q				V
16+55	0.4567	0.07	Q				V
17+ 0	0.4571	0.07	Q				V
17+ 5	0.4578	0.10	Q				V
17+10	0.4586	0.11	Q				V
17+15	0.4593	0.11	Q				V
17+20	0.4601	0.11	Q				V
17+25	0.4608	0.11	Q				V
17+30	0.4616	0.11	Q				V
17+35	0.4623	0.11	Q				V
17+40	0.4631	0.11	Q				V
17+45	0.4638	0.11	Q				V
17+50	0.4645	0.09	Q				V
17+55	0.4651	0.09	Q				V
18+ 0	0.4657	0.09	Q				V
18+ 5	0.4663	0.09	Q				V
18+10	0.4669	0.09	Q				V
18+15	0.4675	0.09	Q				V
18+20	0.4681	0.09	Q				V
18+25	0.4687	0.09	Q				V
18+30	0.4693	0.09	Q				V
18+35	0.4698	0.07	Q				V
18+40	0.4702	0.07	Q				V
18+45	0.4707	0.07	Q				V
18+50	0.4710	0.05	Q				V
18+55	0.4713	0.04	Q				V
19+ 0	0.4716	0.04	Q				V
19+ 5	0.4720	0.06	Q				V
19+10	0.4725	0.07	Q				V
19+15	0.4729	0.07	Q				V
19+20	0.4735	0.08	Q				V
19+25	0.4741	0.09	Q				V
19+30	0.4747	0.09	Q				V
19+35	0.4752	0.07	Q				V
19+40	0.4756	0.07	Q				V
19+45	0.4761	0.07	Q				V
19+50	0.4764	0.05	Q				V

19+55	0.4767	0.04	Q				V
20+ 0	0.4770	0.04	Q				V
20+ 5	0.4774	0.06	Q				V
20+10	0.4779	0.07	Q				V
20+15	0.4783	0.07	Q				V
20+20	0.4788	0.07	Q				V
20+25	0.4792	0.07	Q				V
20+30	0.4797	0.07	Q				V
20+35	0.4801	0.07	Q				V
20+40	0.4806	0.07	Q				V
20+45	0.4810	0.07	Q				V
20+50	0.4814	0.05	Q				V
20+55	0.4817	0.04	Q				V
21+ 0	0.4820	0.04	Q				V
21+ 5	0.4824	0.06	Q				V
21+10	0.4828	0.07	Q				V
21+15	0.4833	0.07	Q				V
21+20	0.4836	0.05	Q				V
21+25	0.4839	0.04	Q				V
21+30	0.4842	0.04	Q				V
21+35	0.4846	0.06	Q				V
21+40	0.4851	0.07	Q				V
21+45	0.4855	0.07	Q				V
21+50	0.4859	0.05	Q				V
21+55	0.4862	0.04	Q				V
22+ 0	0.4865	0.04	Q				V
22+ 5	0.4869	0.06	Q				V
22+10	0.4873	0.07	Q				V
22+15	0.4878	0.07	Q				V
22+20	0.4881	0.05	Q				V
22+25	0.4884	0.04	Q				V
22+30	0.4887	0.04	Q				V
22+35	0.4890	0.04	Q				V
22+40	0.4893	0.04	Q				V
22+45	0.4896	0.04	Q				V
22+50	0.4899	0.04	Q				V
22+55	0.4902	0.04	Q				V
23+ 0	0.4905	0.04	Q				V
23+ 5	0.4908	0.04	Q				V
23+10	0.4911	0.04	Q				V
23+15	0.4914	0.04	Q				V
23+20	0.4917	0.04	Q				V
23+25	0.4920	0.04	Q				V
23+30	0.4923	0.04	Q				V
23+35	0.4926	0.04	Q				V
23+40	0.4929	0.04	Q				V
23+45	0.4932	0.04	Q				V
23+50	0.4935	0.04	Q				V
23+55	0.4938	0.04	Q				V
24+ 0	0.4941	0.04	Q				V

24+ 5

0.4942

0.01 Q

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Attachment 4
Basin Routing Calculations

DMA 1 Proposed 2-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 2YR-1H BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH12.rte
*****HYDROGRAPH DATA*****
Number of intervals = 15
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 6.429 (CFS)
Total volume = 0.217 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 15

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	0	1.6	3.21	4.82	6.43	Depth (Ft.)
0.083	0.68	0.00	0.002	0	I				0.01
0.167	1.23	0.00	0.009	0	I				0.05
0.250	1.47	0.00	0.018	0	I				0.10
0.333	1.61	0.00	0.029	0	I				0.15
0.417	1.67	0.00	0.040	0	I				0.22
0.500	1.82	0.00	0.052	0	I				0.28
0.583	2.14	0.00	0.066	0	I				0.35
0.667	2.53	0.00	0.082	0	I				0.44
0.750	3.37	0.02	0.102	0		I			0.54
0.833	6.43	0.08	0.135	0				I	0.70
0.917	5.11	0.15	0.174	0			I		0.89
1.000	2.40	0.20	0.199	0	I				1.01
1.083	0.92	0.20	0.209	0	I				1.05
1.167	0.15	0.20	0.212	0					1.06
1.250	0.03	0.20	0.211	0					1.06
1.333	0.00	0.20	0.209	0					1.05
1.417	0.00	0.20	0.208	0					1.05
1.500	0.00	0.20	0.207	0					1.04
1.583	0.00	0.20	0.205	0					1.04

1.667	0.00	0.20	0.204	0				1.03
1.750	0.00	0.20	0.203	0				1.02
1.833	0.00	0.20	0.201	0				1.02
1.917	0.00	0.20	0.200	0				1.01
2.000	0.00	0.20	0.199	0				1.01
2.083	0.00	0.20	0.197	0				1.00
2.167	0.00	0.19	0.196	0				1.00
2.250	0.00	0.19	0.195	0				0.99
2.333	0.00	0.19	0.193	0				0.98
2.417	0.00	0.19	0.192	0				0.98
2.500	0.00	0.18	0.191	0				0.97
2.583	0.00	0.18	0.189	0				0.96
2.667	0.00	0.18	0.188	0				0.96
2.750	0.00	0.18	0.187	0				0.95
2.833	0.00	0.18	0.186	0				0.95
2.917	0.00	0.17	0.185	0				0.94
3.000	0.00	0.17	0.183	0				0.93
3.083	0.00	0.17	0.182	0				0.93
3.167	0.00	0.17	0.181	0				0.92
3.250	0.00	0.16	0.180	0				0.92
3.333	0.00	0.16	0.179	0				0.91
3.417	0.00	0.16	0.178	0				0.91
3.500	0.00	0.16	0.177	0				0.90
3.583	0.00	0.16	0.176	0				0.90
3.667	0.00	0.15	0.174	0				0.89
3.750	0.00	0.15	0.173	0				0.89
3.833	0.00	0.15	0.172	0				0.88
3.917	0.00	0.15	0.171	0				0.88
4.000	0.00	0.15	0.170	0				0.87
4.083	0.00	0.14	0.169	0				0.87
4.167	0.00	0.14	0.168	0				0.86
4.250	0.00	0.14	0.167	0				0.86
4.333	0.00	0.14	0.166	0				0.85
4.417	0.00	0.14	0.165	0				0.85
4.500	0.00	0.14	0.165	0				0.84
4.583	0.00	0.13	0.164	0				0.84
4.667	0.00	0.13	0.163	0				0.84
4.750	0.00	0.13	0.162	0				0.83
4.833	0.00	0.13	0.161	0				0.83
4.917	0.00	0.13	0.160	0				0.82
5.000	0.00	0.12	0.159	0				0.82
5.083	0.00	0.12	0.158	0				0.81
5.167	0.00	0.12	0.157	0				0.81
5.250	0.00	0.12	0.157	0				0.81
5.333	0.00	0.12	0.156	0				0.80
5.417	0.00	0.12	0.155	0				0.80
5.500	0.00	0.12	0.154	0				0.79
5.583	0.00	0.11	0.153	0				0.79
5.667	0.00	0.11	0.153	0				0.79
5.750	0.00	0.11	0.152	0				0.78

5.833	0.00	0.11	0.151	0				0.78
5.917	0.00	0.11	0.150	0				0.78
6.000	0.00	0.11	0.150	0				0.77
6.083	0.00	0.11	0.149	0				0.77
6.167	0.00	0.10	0.148	0				0.77
6.250	0.00	0.10	0.147	0				0.76
6.333	0.00	0.10	0.147	0				0.76
6.417	0.00	0.10	0.146	0				0.76
6.500	0.00	0.10	0.145	0				0.75
6.583	0.00	0.10	0.145	0				0.75
6.667	0.00	0.10	0.144	0				0.75
6.750	0.00	0.10	0.143	0				0.74
6.833	0.00	0.09	0.143	0				0.74
6.917	0.00	0.09	0.142	0				0.74
7.000	0.00	0.09	0.141	0				0.73
7.083	0.00	0.09	0.141	0				0.73
7.167	0.00	0.09	0.140	0				0.73
7.250	0.00	0.09	0.140	0				0.72
7.333	0.00	0.09	0.139	0				0.72
7.417	0.00	0.09	0.138	0				0.72
7.500	0.00	0.08	0.138	0				0.72
7.583	0.00	0.08	0.137	0				0.71
7.667	0.00	0.08	0.137	0				0.71
7.750	0.00	0.08	0.136	0				0.71
7.833	0.00	0.08	0.136	0				0.70
7.917	0.00	0.08	0.135	0				0.70
8.000	0.00	0.08	0.134	0				0.70
8.083	0.00	0.08	0.134	0				0.70
8.167	0.00	0.08	0.133	0				0.69
8.250	0.00	0.08	0.133	0				0.69
8.333	0.00	0.07	0.132	0				0.69
8.417	0.00	0.07	0.132	0				0.69
8.500	0.00	0.07	0.131	0				0.68
8.583	0.00	0.07	0.131	0				0.68
8.667	0.00	0.07	0.130	0				0.68
8.750	0.00	0.07	0.130	0				0.68
8.833	0.00	0.07	0.129	0				0.67
8.917	0.00	0.07	0.129	0				0.67
9.000	0.00	0.07	0.128	0				0.67
9.083	0.00	0.07	0.128	0				0.67
9.167	0.00	0.07	0.128	0				0.67
9.250	0.00	0.06	0.127	0				0.66
9.333	0.00	0.06	0.127	0				0.66
9.417	0.00	0.06	0.126	0				0.66
9.500	0.00	0.06	0.126	0				0.66
9.583	0.00	0.06	0.125	0				0.66
9.667	0.00	0.06	0.125	0				0.65
9.750	0.00	0.06	0.125	0				0.65
9.833	0.00	0.06	0.124	0				0.65
9.917	0.00	0.06	0.124	0				0.65

10.000	0.00	0.06	0.123	0				0.65
10.083	0.00	0.06	0.123	0				0.64
10.167	0.00	0.06	0.123	0				0.64
10.250	0.00	0.06	0.122	0				0.64
10.333	0.00	0.05	0.122	0				0.64
10.417	0.00	0.05	0.121	0				0.64
10.500	0.00	0.05	0.121	0				0.63
10.583	0.00	0.05	0.121	0				0.63
10.667	0.00	0.05	0.120	0				0.63
10.750	0.00	0.05	0.120	0				0.63
10.833	0.00	0.05	0.120	0				0.63
10.917	0.00	0.05	0.119	0				0.63
11.000	0.00	0.05	0.119	0				0.62
11.083	0.00	0.05	0.119	0				0.62
11.167	0.00	0.05	0.118	0				0.62
11.250	0.00	0.05	0.118	0				0.62
11.333	0.00	0.05	0.118	0				0.62
11.417	0.00	0.05	0.117	0				0.62
11.500	0.00	0.05	0.117	0				0.62
11.583	0.00	0.04	0.117	0				0.61
11.667	0.00	0.04	0.116	0				0.61
11.750	0.00	0.04	0.116	0				0.61
11.833	0.00	0.04	0.116	0				0.61
11.917	0.00	0.04	0.115	0				0.61
12.000	0.00	0.04	0.115	0				0.61
12.083	0.00	0.04	0.115	0				0.61
12.167	0.00	0.04	0.115	0				0.60
12.250	0.00	0.04	0.114	0				0.60
12.333	0.00	0.04	0.114	0				0.60
12.417	0.00	0.04	0.114	0				0.60
12.500	0.00	0.04	0.114	0				0.60
12.583	0.00	0.04	0.113	0				0.60
12.667	0.00	0.04	0.113	0				0.60
12.750	0.00	0.04	0.113	0				0.59
12.833	0.00	0.04	0.112	0				0.59
12.917	0.00	0.04	0.112	0				0.59
13.000	0.00	0.04	0.112	0				0.59
13.083	0.00	0.04	0.112	0				0.59
13.167	0.00	0.03	0.112	0				0.59
13.250	0.00	0.03	0.111	0				0.59
13.333	0.00	0.03	0.111	0				0.59
13.417	0.00	0.03	0.111	0				0.59
13.500	0.00	0.03	0.111	0				0.58
13.583	0.00	0.03	0.110	0				0.58
13.667	0.00	0.03	0.110	0				0.58
13.750	0.00	0.03	0.110	0				0.58
13.833	0.00	0.03	0.110	0				0.58
13.917	0.00	0.03	0.109	0				0.58
14.000	0.00	0.03	0.109	0				0.58
14.083	0.00	0.03	0.109	0				0.58

14.167	0.00	0.03	0.109	0					0.58
14.250	0.00	0.03	0.109	0					0.58
14.333	0.00	0.03	0.108	0					0.57
14.417	0.00	0.03	0.108	0					0.57
14.500	0.00	0.03	0.108	0					0.57
14.583	0.00	0.03	0.108	0					0.57
14.667	0.00	0.03	0.108	0					0.57
14.750	0.00	0.03	0.107	0					0.57
14.833	0.00	0.03	0.107	0					0.57
14.917	0.00	0.03	0.107	0					0.57
15.000	0.00	0.03	0.107	0					0.57
15.083	0.00	0.03	0.107	0					0.57
15.167	0.00	0.03	0.107	0					0.57
15.250	0.00	0.03	0.106	0					0.56
15.333	0.00	0.02	0.106	0					0.56
15.417	0.00	0.02	0.106	0					0.56
15.500	0.00	0.02	0.106	0					0.56
15.583	0.00	0.02	0.106	0					0.56
15.667	0.00	0.02	0.106	0					0.56
15.750	0.00	0.02	0.105	0					0.56
15.833	0.00	0.02	0.105	0					0.56
15.917	0.00	0.02	0.105	0					0.56
16.000	0.00	0.02	0.105	0					0.56
16.083	0.00	0.02	0.105	0					0.56
16.167	0.00	0.02	0.105	0					0.56
16.250	0.00	0.02	0.104	0					0.55
16.333	0.00	0.02	0.104	0					0.55
16.417	0.00	0.02	0.104	0					0.55
16.500	0.00	0.02	0.104	0					0.55
16.583	0.00	0.02	0.104	0					0.55
16.667	0.00	0.02	0.104	0					0.55
16.750	0.00	0.02	0.104	0					0.55
16.833	0.00	0.02	0.103	0					0.55
16.917	0.00	0.02	0.103	0					0.55
17.000	0.00	0.02	0.103	0					0.55
17.083	0.00	0.02	0.103	0					0.55
17.167	0.00	0.02	0.103	0					0.55
17.250	0.00	0.02	0.103	0					0.55
17.333	0.00	0.02	0.103	0					0.55
17.417	0.00	0.02	0.103	0					0.55
17.500	0.00	0.02	0.102	0					0.55
17.583	0.00	0.02	0.102	0					0.54
17.667	0.00	0.02	0.102	0					0.54
17.750	0.00	0.02	0.102	0					0.54
17.833	0.00	0.02	0.102	0					0.54
17.917	0.00	0.02	0.102	0					0.54
18.000	0.00	0.02	0.102	0					0.54
18.083	0.00	0.02	0.102	0					0.54
18.167	0.00	0.02	0.101	0					0.54
18.250	0.00	0.02	0.101	0					0.54

18.333	0.00	0.02	0.101	0				0.54
18.417	0.00	0.02	0.101	0				0.54
18.500	0.00	0.02	0.101	0				0.54
18.583	0.00	0.02	0.101	0				0.54
18.667	0.00	0.01	0.101	0				0.54
18.750	0.00	0.01	0.101	0				0.54
18.833	0.00	0.01	0.101	0				0.54
18.917	0.00	0.01	0.101	0				0.54
19.000	0.00	0.01	0.100	0				0.54
19.083	0.00	0.01	0.100	0				0.54
19.167	0.00	0.01	0.100	0				0.53
19.250	0.00	0.01	0.100	0				0.53
19.333	0.00	0.01	0.100	0				0.53
19.417	0.00	0.01	0.100	0				0.53
19.500	0.00	0.01	0.100	0				0.53
19.583	0.00	0.01	0.100	0				0.53
19.667	0.00	0.01	0.100	0				0.53
19.750	0.00	0.01	0.100	0				0.53
19.833	0.00	0.01	0.100	0				0.53
19.917	0.00	0.01	0.099	0				0.53
20.000	0.00	0.01	0.099	0				0.53
20.083	0.00	0.01	0.099	0				0.53
20.167	0.00	0.01	0.099	0				0.53
20.250	0.00	0.01	0.099	0				0.53
20.333	0.00	0.01	0.099	0				0.53
20.417	0.00	0.01	0.099	0				0.53
20.500	0.00	0.01	0.099	0				0.53
20.583	0.00	0.01	0.099	0				0.53
20.667	0.00	0.01	0.099	0				0.53
20.750	0.00	0.01	0.099	0				0.53
20.833	0.00	0.01	0.099	0				0.53
20.917	0.00	0.01	0.099	0				0.53
21.000	0.00	0.01	0.098	0				0.53
21.083	0.00	0.01	0.098	0				0.53
21.167	0.00	0.01	0.098	0				0.53
21.250	0.00	0.01	0.098	0				0.53
21.333	0.00	0.01	0.098	0				0.52
21.417	0.00	0.01	0.098	0				0.52
21.500	0.00	0.01	0.098	0				0.52
21.583	0.00	0.01	0.098	0				0.52
21.667	0.00	0.01	0.098	0				0.52
21.750	0.00	0.01	0.098	0				0.52
21.833	0.00	0.01	0.098	0				0.52
21.917	0.00	0.01	0.098	0				0.52
22.000	0.00	0.01	0.098	0				0.52
22.083	0.00	0.01	0.098	0				0.52
22.167	0.00	0.01	0.098	0				0.52
22.250	0.00	0.01	0.097	0				0.52
22.333	0.00	0.01	0.097	0				0.52
22.417	0.00	0.01	0.097	0				0.52

22.500	0.00	0.01	0.097	0					0.52
22.583	0.00	0.01	0.097	0					0.52
22.667	0.00	0.01	0.097	0					0.52
22.750	0.00	0.01	0.097	0					0.52
22.833	0.00	0.01	0.097	0					0.52
22.917	0.00	0.01	0.097	0					0.52
23.000	0.00	0.01	0.097	0					0.52
23.083	0.00	0.01	0.097	0					0.52
23.167	0.00	0.01	0.097	0					0.52
23.250	0.00	0.01	0.097	0					0.52
23.333	0.00	0.01	0.097	0					0.52
23.417	0.00	0.01	0.097	0					0.52
23.500	0.00	0.01	0.097	0					0.52
23.583	0.00	0.01	0.097	0					0.52
23.667	0.00	0.01	0.097	0					0.52
23.750	0.00	0.01	0.097	0					0.52
23.833	0.00	0.01	0.097	0					0.52
23.917	0.00	0.01	0.096	0					0.52
24.000	0.00	0.01	0.096	0					0.52
24.083	0.00	0.01	0.096	0					0.52
24.167	0.00	0.01	0.096	0					0.52
24.250	0.00	0.01	0.096	0					0.52
24.333	0.00	0.01	0.096	0					0.52
24.417	0.00	0.01	0.096	0					0.52
24.500	0.00	0.01	0.096	0					0.52
24.583	0.00	0.01	0.096	0					0.51
24.667	0.00	0.01	0.096	0					0.51
24.750	0.00	0.01	0.096	0					0.51
24.833	0.00	0.01	0.096	0					0.51
24.917	0.00	0.01	0.096	0					0.51
25.000	0.00	0.01	0.096	0					0.51
25.083	0.00	0.01	0.096	0					0.51
25.167	0.00	0.01	0.096	0					0.51
25.250	0.00	0.01	0.096	0					0.51
25.333	0.00	0.01	0.096	0					0.51
25.417	0.00	0.01	0.096	0					0.51
25.500	0.00	0.01	0.096	0					0.51
25.583	0.00	0.01	0.096	0					0.51
25.667	0.00	0.00	0.096	0					0.51
25.750	0.00	0.00	0.096	0					0.51
25.833	0.00	0.00	0.096	0					0.51
25.917	0.00	0.00	0.096	0					0.51
26.000	0.00	0.00	0.095	0					0.51
26.083	0.00	0.00	0.095	0					0.51
26.167	0.00	0.00	0.095	0					0.51
26.250	0.00	0.00	0.095	0					0.51
26.333	0.00	0.00	0.095	0					0.51
26.417	0.00	0.00	0.095	0					0.51
26.500	0.00	0.00	0.095	0					0.51
26.583	0.00	0.00	0.095	0					0.51

26.667	0.00	0.00	0.095	0					0.51
26.750	0.00	0.00	0.095	0					0.51
26.833	0.00	0.00	0.095	0					0.51
26.917	0.00	0.00	0.095	0					0.51
27.000	0.00	0.00	0.095	0					0.51
27.083	0.00	0.00	0.095	0					0.51
27.167	0.00	0.00	0.095	0					0.51
27.250	0.00	0.00	0.095	0					0.51
27.333	0.00	0.00	0.095	0					0.51
27.417	0.00	0.00	0.095	0					0.51
27.500	0.00	0.00	0.095	0					0.51
27.583	0.00	0.00	0.095	0					0.51
27.667	0.00	0.00	0.095	0					0.51
27.750	0.00	0.00	0.095	0					0.51
27.833	0.00	0.00	0.095	0					0.51
27.917	0.00	0.00	0.095	0					0.51
28.000	0.00	0.00	0.095	0					0.51
28.083	0.00	0.00	0.095	0					0.51
28.167	0.00	0.00	0.095	0					0.51
28.250	0.00	0.00	0.095	0					0.51
28.333	0.00	0.00	0.095	0					0.51
28.417	0.00	0.00	0.095	0					0.51
28.500	0.00	0.00	0.095	0					0.51
28.583	0.00	0.00	0.095	0					0.51
28.667	0.00	0.00	0.095	0					0.51
28.750	0.00	0.00	0.095	0					0.51
28.833	0.00	0.00	0.095	0					0.51
28.917	0.00	0.00	0.095	0					0.51
29.000	0.00	0.00	0.095	0					0.51
29.083	0.00	0.00	0.095	0					0.51
29.167	0.00	0.00	0.095	0					0.51
29.250	0.00	0.00	0.095	0					0.51
29.333	0.00	0.00	0.094	0					0.51
29.417	0.00	0.00	0.094	0					0.51
29.500	0.00	0.00	0.094	0					0.51
29.583	0.00	0.00	0.094	0					0.51
29.667	0.00	0.00	0.094	0					0.51
29.750	0.00	0.00	0.094	0					0.51
29.833	0.00	0.00	0.094	0					0.51
29.917	0.00	0.00	0.094	0					0.51
30.000	0.00	0.00	0.094	0					0.51
30.083	0.00	0.00	0.094	0					0.51
30.167	0.00	0.00	0.094	0					0.51
30.250	0.00	0.00	0.094	0					0.51
30.333	0.00	0.00	0.094	0					0.51
30.417	0.00	0.00	0.094	0					0.51
30.500	0.00	0.00	0.094	0					0.51
30.583	0.00	0.00	0.094	0					0.51
30.667	0.00	0.00	0.094	0					0.51
30.750	0.00	0.00	0.094	0					0.51

30.833	0.00	0.00	0.094	0					0.51
30.917	0.00	0.00	0.094	0					0.51
31.000	0.00	0.00	0.094	0					0.51
31.083	0.00	0.00	0.094	0					0.51
31.167	0.00	0.00	0.094	0					0.51
31.250	0.00	0.00	0.094	0					0.51
31.333	0.00	0.00	0.094	0					0.51
31.417	0.00	0.00	0.094	0					0.51
31.500	0.00	0.00	0.094	0					0.51
31.583	0.00	0.00	0.094	0					0.51
31.667	0.00	0.00	0.094	0					0.50
31.750	0.00	0.00	0.094	0					0.50
31.833	0.00	0.00	0.094	0					0.50
31.917	0.00	0.00	0.094	0					0.50
32.000	0.00	0.00	0.094	0					0.50
32.083	0.00	0.00	0.094	0					0.50
32.167	0.00	0.00	0.094	0					0.50
32.250	0.00	0.00	0.094	0					0.50
32.333	0.00	0.00	0.094	0					0.50
32.417	0.00	0.00	0.094	0					0.50
32.500	0.00	0.00	0.094	0					0.50
32.583	0.00	0.00	0.094	0					0.50
32.667	0.00	0.00	0.094	0					0.50
32.750	0.00	0.00	0.094	0					0.50
32.833	0.00	0.00	0.094	0					0.50
32.917	0.00	0.00	0.094	0					0.50
33.000	0.00	0.00	0.094	0					0.50
33.083	0.00	0.00	0.094	0					0.50
33.167	0.00	0.00	0.094	0					0.50
33.250	0.00	0.00	0.094	0					0.50
33.333	0.00	0.00	0.094	0					0.50
33.417	0.00	0.00	0.094	0					0.50
33.500	0.00	0.00	0.094	0					0.50
33.583	0.00	0.00	0.094	0					0.50
33.667	0.00	0.00	0.094	0					0.50
33.750	0.00	0.00	0.094	0					0.50
33.833	0.00	0.00	0.094	0					0.50
33.917	0.00	0.00	0.094	0					0.50
34.000	0.00	0.00	0.094	0					0.50
34.083	0.00	0.00	0.094	0					0.50
34.167	0.00	0.00	0.094	0					0.50
34.250	0.00	0.00	0.094	0					0.50
34.333	0.00	0.00	0.094	0					0.50
34.417	0.00	0.00	0.094	0					0.50
34.500	0.00	0.00	0.094	0					0.50
34.583	0.00	0.00	0.094	0					0.50
34.667	0.00	0.00	0.094	0					0.50
34.750	0.00	0.00	0.094	0					0.50
34.833	0.00	0.00	0.094	0					0.50
34.917	0.00	0.00	0.094	0					0.50

35.000	0.00	0.00	0.094	0					0.50
35.083	0.00	0.00	0.094	0					0.50
35.167	0.00	0.00	0.094	0					0.50
35.250	0.00	0.00	0.094	0					0.50
35.333	0.00	0.00	0.094	0					0.50
35.417	0.00	0.00	0.094	0					0.50
35.500	0.00	0.00	0.094	0					0.50
35.583	0.00	0.00	0.094	0					0.50
35.667	0.00	0.00	0.094	0					0.50
35.750	0.00	0.00	0.094	0					0.50
35.833	0.00	0.00	0.094	0					0.50
35.917	0.00	0.00	0.094	0					0.50
36.000	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 432

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.124 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 1 2YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH32.rte
*****HYDROGRAPH DATA*****
Number of intervals = 39
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 4.029 (CFS)
Total volume = 0.349 (Ac.Ft)
Status of hydrographs being held in storage
Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
Peak (CFS) 0.000 0.000 0.000 0.000 0.000
Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

++++
Process from Point/Station 1.000 to Point/Station 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 39

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.0	2.01	3.02	4.03	Depth (Ft.)
0.083	0.34	0.00	0.001	0	I				0.01
0.167	0.60	0.00	0.004	0	I				0.02
0.250	0.59	0.00	0.008	0	I				0.05
0.333	0.67	0.00	0.013	0	I				0.07
0.417	0.74	0.00	0.018	0	I				0.09
0.500	0.83	0.00	0.023	0	I				0.12
0.583	0.81	0.00	0.029	0	I				0.15
0.667	0.84	0.00	0.034	0	I				0.18
0.750	0.90	0.00	0.040	0	I				0.22
0.833	0.83	0.00	0.046	0	I				0.25
0.917	0.79	0.00	0.052	0	I				0.28
1.000	0.85	0.00	0.058	0	I				0.31
1.083	1.00	0.00	0.064	0	I				0.34
1.167	1.09	0.00	0.071	0	I				0.38
1.250	1.10	0.00	0.079	0	I				0.42
1.333	1.05	0.00	0.086	0	I				0.46
1.417	1.17	0.00	0.094	0	I				0.50
1.500	1.31	0.02	0.102	0	I				0.54
1.583	1.27	0.03	0.111	0	I				0.59

5.833	0.00	0.20	0.285	IO					1.38
5.917	0.00	0.20	0.284	IO					1.37
6.000	0.00	0.20	0.282	IO					1.37
6.083	0.00	0.20	0.281	IO					1.36
6.167	0.00	0.20	0.280	IO					1.36
6.250	0.00	0.20	0.278	IO					1.35
6.333	0.00	0.20	0.277	IO					1.35
6.417	0.00	0.20	0.276	IO					1.34
6.500	0.00	0.20	0.274	IO					1.33
6.583	0.00	0.20	0.273	IO					1.33
6.667	0.00	0.20	0.272	IO					1.32
6.750	0.00	0.20	0.270	IO					1.32
6.833	0.00	0.20	0.269	IO					1.31
6.917	0.00	0.20	0.268	IO					1.30
7.000	0.00	0.20	0.266	IO					1.30
7.083	0.00	0.20	0.265	IO					1.29
7.167	0.00	0.20	0.264	IO					1.29
7.250	0.00	0.20	0.262	IO					1.28
7.333	0.00	0.20	0.261	IO					1.28
7.417	0.00	0.20	0.259	IO					1.27
7.500	0.00	0.20	0.258	IO					1.26
7.583	0.00	0.20	0.257	IO					1.26
7.667	0.00	0.20	0.255	IO					1.25
7.750	0.00	0.20	0.254	IO					1.25
7.833	0.00	0.20	0.253	IO					1.24
7.917	0.00	0.20	0.251	IO					1.23
8.000	0.00	0.20	0.250	IO					1.23
8.083	0.00	0.20	0.249	IO					1.22
8.167	0.00	0.20	0.247	IO					1.22
8.250	0.00	0.20	0.246	IO					1.21
8.333	0.00	0.20	0.245	IO					1.21
8.417	0.00	0.20	0.243	IO					1.20
8.500	0.00	0.20	0.242	IO					1.19
8.583	0.00	0.20	0.241	IO					1.19
8.667	0.00	0.20	0.239	IO					1.18
8.750	0.00	0.20	0.238	IO					1.18
8.833	0.00	0.20	0.236	IO					1.17
8.917	0.00	0.20	0.235	IO					1.16
9.000	0.00	0.20	0.234	IO					1.16
9.083	0.00	0.20	0.232	IO					1.15
9.167	0.00	0.20	0.231	IO					1.15
9.250	0.00	0.20	0.230	IO					1.14
9.333	0.00	0.20	0.228	IO					1.14
9.417	0.00	0.20	0.227	IO					1.13
9.500	0.00	0.20	0.226	IO					1.12
9.583	0.00	0.20	0.224	IO					1.12
9.667	0.00	0.20	0.223	IO					1.11
9.750	0.00	0.20	0.222	IO					1.11
9.833	0.00	0.20	0.220	IO					1.10
9.917	0.00	0.20	0.219	IO					1.09

10.000	0.00	0.20	0.218	IO					1.09
10.083	0.00	0.20	0.216	IO					1.08
10.167	0.00	0.20	0.215	IO					1.08
10.250	0.00	0.20	0.213	IO					1.07
10.333	0.00	0.20	0.212	IO					1.07
10.417	0.00	0.20	0.211	IO					1.06
10.500	0.00	0.20	0.209	IO					1.05
10.583	0.00	0.20	0.208	IO					1.05
10.667	0.00	0.20	0.207	IO					1.04
10.750	0.00	0.20	0.205	IO					1.04
10.833	0.00	0.20	0.204	IO					1.03
10.917	0.00	0.20	0.203	IO					1.02
11.000	0.00	0.20	0.201	IO					1.02
11.083	0.00	0.20	0.200	IO					1.01
11.167	0.00	0.20	0.199	IO					1.01
11.250	0.00	0.20	0.197	IO					1.00
11.333	0.00	0.19	0.196	IO					0.99
11.417	0.00	0.19	0.195	IO					0.99
11.500	0.00	0.19	0.193	IO					0.98
11.583	0.00	0.19	0.192	IO					0.98
11.667	0.00	0.18	0.191	IO					0.97
11.750	0.00	0.18	0.189	IO					0.96
11.833	0.00	0.18	0.188	IO					0.96
11.917	0.00	0.18	0.187	IO					0.95
12.000	0.00	0.18	0.186	IO					0.95
12.083	0.00	0.17	0.185	IO					0.94
12.167	0.00	0.17	0.183	IO					0.93
12.250	0.00	0.17	0.182	IO					0.93
12.333	0.00	0.17	0.181	IO					0.92
12.417	0.00	0.16	0.180	IO					0.92
12.500	0.00	0.16	0.179	IO					0.91
12.583	0.00	0.16	0.178	IO					0.91
12.667	0.00	0.16	0.177	IO					0.90
12.750	0.00	0.16	0.176	IO					0.90
12.833	0.00	0.15	0.174	IO					0.89
12.917	0.00	0.15	0.173	IO					0.89
13.000	0.00	0.15	0.172	IO					0.88
13.083	0.00	0.15	0.171	IO					0.88
13.167	0.00	0.15	0.170	IO					0.87
13.250	0.00	0.14	0.169	IO					0.87
13.333	0.00	0.14	0.168	IO					0.86
13.417	0.00	0.14	0.167	IO					0.86
13.500	0.00	0.14	0.166	IO					0.85
13.583	0.00	0.14	0.165	IO					0.85
13.667	0.00	0.14	0.165	IO					0.84
13.750	0.00	0.13	0.164	IO					0.84
13.833	0.00	0.13	0.163	IO					0.83
13.917	0.00	0.13	0.162	IO					0.83
14.000	0.00	0.13	0.161	IO					0.83
14.083	0.00	0.13	0.160	IO					0.82

14.167	0.00	0.12	0.159	0					0.82
14.250	0.00	0.12	0.158	0					0.81
14.333	0.00	0.12	0.157	0					0.81
14.417	0.00	0.12	0.157	0					0.81
14.500	0.00	0.12	0.156	0					0.80
14.583	0.00	0.12	0.155	0					0.80
14.667	0.00	0.12	0.154	0					0.79
14.750	0.00	0.11	0.153	0					0.79
14.833	0.00	0.11	0.153	0					0.79
14.917	0.00	0.11	0.152	0					0.78
15.000	0.00	0.11	0.151	0					0.78
15.083	0.00	0.11	0.150	0					0.78
15.167	0.00	0.11	0.150	0					0.77
15.250	0.00	0.11	0.149	0					0.77
15.333	0.00	0.10	0.148	0					0.77
15.417	0.00	0.10	0.147	0					0.76
15.500	0.00	0.10	0.147	0					0.76
15.583	0.00	0.10	0.146	0					0.75
15.667	0.00	0.10	0.145	0					0.75
15.750	0.00	0.10	0.145	0					0.75
15.833	0.00	0.10	0.144	0					0.75
15.917	0.00	0.10	0.143	0					0.74
16.000	0.00	0.09	0.143	0					0.74
16.083	0.00	0.09	0.142	0					0.74
16.167	0.00	0.09	0.141	0					0.73
16.250	0.00	0.09	0.141	0					0.73
16.333	0.00	0.09	0.140	0					0.73
16.417	0.00	0.09	0.140	0					0.72
16.500	0.00	0.09	0.139	0					0.72
16.583	0.00	0.09	0.138	0					0.72
16.667	0.00	0.08	0.138	0					0.72
16.750	0.00	0.08	0.137	0					0.71
16.833	0.00	0.08	0.137	0					0.71
16.917	0.00	0.08	0.136	0					0.71
17.000	0.00	0.08	0.136	0					0.70
17.083	0.00	0.08	0.135	0					0.70
17.167	0.00	0.08	0.134	0					0.70
17.250	0.00	0.08	0.134	0					0.70
17.333	0.00	0.08	0.133	0					0.69
17.417	0.00	0.08	0.133	0					0.69
17.500	0.00	0.07	0.132	0					0.69
17.583	0.00	0.07	0.132	0					0.69
17.667	0.00	0.07	0.131	0					0.68
17.750	0.00	0.07	0.131	0					0.68
17.833	0.00	0.07	0.130	0					0.68
17.917	0.00	0.07	0.130	0					0.68
18.000	0.00	0.07	0.129	0					0.67
18.083	0.00	0.07	0.129	0					0.67
18.167	0.00	0.07	0.128	0					0.67
18.250	0.00	0.07	0.128	0					0.67

18.333	0.00	0.07	0.128	0				0.67
18.417	0.00	0.06	0.127	0				0.66
18.500	0.00	0.06	0.127	0				0.66
18.583	0.00	0.06	0.126	0				0.66
18.667	0.00	0.06	0.126	0				0.66
18.750	0.00	0.06	0.125	0				0.66
18.833	0.00	0.06	0.125	0				0.65
18.917	0.00	0.06	0.125	0				0.65
19.000	0.00	0.06	0.124	0				0.65
19.083	0.00	0.06	0.124	0				0.65
19.167	0.00	0.06	0.123	0				0.65
19.250	0.00	0.06	0.123	0				0.64
19.333	0.00	0.06	0.123	0				0.64
19.417	0.00	0.06	0.122	0				0.64
19.500	0.00	0.05	0.122	0				0.64
19.583	0.00	0.05	0.121	0				0.64
19.667	0.00	0.05	0.121	0				0.63
19.750	0.00	0.05	0.121	0				0.63
19.833	0.00	0.05	0.120	0				0.63
19.917	0.00	0.05	0.120	0				0.63
20.000	0.00	0.05	0.120	0				0.63
20.083	0.00	0.05	0.119	0				0.63
20.167	0.00	0.05	0.119	0				0.62
20.250	0.00	0.05	0.119	0				0.62
20.333	0.00	0.05	0.118	0				0.62
20.417	0.00	0.05	0.118	0				0.62
20.500	0.00	0.05	0.118	0				0.62
20.583	0.00	0.05	0.117	0				0.62
20.667	0.00	0.05	0.117	0				0.62
20.750	0.00	0.04	0.117	0				0.61
20.833	0.00	0.04	0.116	0				0.61
20.917	0.00	0.04	0.116	0				0.61
21.000	0.00	0.04	0.116	0				0.61
21.083	0.00	0.04	0.115	0				0.61
21.167	0.00	0.04	0.115	0				0.61
21.250	0.00	0.04	0.115	0				0.61
21.333	0.00	0.04	0.115	0				0.60
21.417	0.00	0.04	0.114	0				0.60
21.500	0.00	0.04	0.114	0				0.60
21.583	0.00	0.04	0.114	0				0.60
21.667	0.00	0.04	0.114	0				0.60
21.750	0.00	0.04	0.113	0				0.60
21.833	0.00	0.04	0.113	0				0.60
21.917	0.00	0.04	0.113	0				0.59
22.000	0.00	0.04	0.112	0				0.59
22.083	0.00	0.04	0.112	0				0.59
22.167	0.00	0.04	0.112	0				0.59
22.250	0.00	0.04	0.112	0				0.59
22.333	0.00	0.03	0.111	0				0.59
22.417	0.00	0.03	0.111	0				0.59

22.500	0.00	0.03	0.111	0				0.59
22.583	0.00	0.03	0.111	0				0.59
22.667	0.00	0.03	0.111	0				0.58
22.750	0.00	0.03	0.110	0				0.58
22.833	0.00	0.03	0.110	0				0.58
22.917	0.00	0.03	0.110	0				0.58
23.000	0.00	0.03	0.110	0				0.58
23.083	0.00	0.03	0.109	0				0.58
23.167	0.00	0.03	0.109	0				0.58
23.250	0.00	0.03	0.109	0				0.58
23.333	0.00	0.03	0.109	0				0.58
23.417	0.00	0.03	0.109	0				0.58
23.500	0.00	0.03	0.108	0				0.57
23.583	0.00	0.03	0.108	0				0.57
23.667	0.00	0.03	0.108	0				0.57
23.750	0.00	0.03	0.108	0				0.57
23.833	0.00	0.03	0.108	0				0.57
23.917	0.00	0.03	0.107	0				0.57
24.000	0.00	0.03	0.107	0				0.57
24.083	0.00	0.03	0.107	0				0.57
24.167	0.00	0.03	0.107	0				0.57
24.250	0.00	0.03	0.107	0				0.57
24.333	0.00	0.03	0.107	0				0.57
24.417	0.00	0.03	0.106	0				0.56
24.500	0.00	0.02	0.106	0				0.56
24.583	0.00	0.02	0.106	0				0.56
24.667	0.00	0.02	0.106	0				0.56
24.750	0.00	0.02	0.106	0				0.56
24.833	0.00	0.02	0.106	0				0.56
24.917	0.00	0.02	0.105	0				0.56
25.000	0.00	0.02	0.105	0				0.56
25.083	0.00	0.02	0.105	0				0.56
25.167	0.00	0.02	0.105	0				0.56
25.250	0.00	0.02	0.105	0				0.56
25.333	0.00	0.02	0.105	0				0.56
25.417	0.00	0.02	0.104	0				0.55
25.500	0.00	0.02	0.104	0				0.55
25.583	0.00	0.02	0.104	0				0.55
25.667	0.00	0.02	0.104	0				0.55
25.750	0.00	0.02	0.104	0				0.55
25.833	0.00	0.02	0.104	0				0.55
25.917	0.00	0.02	0.104	0				0.55
26.000	0.00	0.02	0.103	0				0.55
26.083	0.00	0.02	0.103	0				0.55
26.167	0.00	0.02	0.103	0				0.55
26.250	0.00	0.02	0.103	0				0.55
26.333	0.00	0.02	0.103	0				0.55
26.417	0.00	0.02	0.103	0				0.55
26.500	0.00	0.02	0.103	0				0.55
26.583	0.00	0.02	0.103	0				0.55

26.667	0.00	0.02	0.102	0					0.55
26.750	0.00	0.02	0.102	0					0.54
26.833	0.00	0.02	0.102	0					0.54
26.917	0.00	0.02	0.102	0					0.54
27.000	0.00	0.02	0.102	0					0.54
27.083	0.00	0.02	0.102	0					0.54
27.167	0.00	0.02	0.102	0					0.54
27.250	0.00	0.02	0.102	0					0.54
27.333	0.00	0.02	0.101	0					0.54
27.417	0.00	0.02	0.101	0					0.54
27.500	0.00	0.02	0.101	0					0.54
27.583	0.00	0.02	0.101	0					0.54
27.667	0.00	0.02	0.101	0					0.54
27.750	0.00	0.01	0.101	0					0.54
27.833	0.00	0.01	0.101	0					0.54
27.917	0.00	0.01	0.101	0					0.54
28.000	0.00	0.01	0.101	0					0.54
28.083	0.00	0.01	0.101	0					0.54
28.167	0.00	0.01	0.100	0					0.54
28.250	0.00	0.01	0.100	0					0.54
28.333	0.00	0.01	0.100	0					0.53
28.417	0.00	0.01	0.100	0					0.53
28.500	0.00	0.01	0.100	0					0.53
28.583	0.00	0.01	0.100	0					0.53
28.667	0.00	0.01	0.100	0					0.53
28.750	0.00	0.01	0.100	0					0.53
28.833	0.00	0.01	0.100	0					0.53
28.917	0.00	0.01	0.100	0					0.53
29.000	0.00	0.01	0.100	0					0.53
29.083	0.00	0.01	0.099	0					0.53
29.167	0.00	0.01	0.099	0					0.53
29.250	0.00	0.01	0.099	0					0.53
29.333	0.00	0.01	0.099	0					0.53
29.417	0.00	0.01	0.099	0					0.53
29.500	0.00	0.01	0.099	0					0.53
29.583	0.00	0.01	0.099	0					0.53
29.667	0.00	0.01	0.099	0					0.53
29.750	0.00	0.01	0.099	0					0.53
29.833	0.00	0.01	0.099	0					0.53
29.917	0.00	0.01	0.099	0					0.53
30.000	0.00	0.01	0.099	0					0.53
30.083	0.00	0.01	0.099	0					0.53
30.167	0.00	0.01	0.098	0					0.53
30.250	0.00	0.01	0.098	0					0.53
30.333	0.00	0.01	0.098	0					0.53
30.417	0.00	0.01	0.098	0					0.53
30.500	0.00	0.01	0.098	0					0.52
30.583	0.00	0.01	0.098	0					0.52
30.667	0.00	0.01	0.098	0					0.52
30.750	0.00	0.01	0.098	0					0.52

30.833	0.00	0.01	0.098	0					0.52
30.917	0.00	0.01	0.098	0					0.52
31.000	0.00	0.01	0.098	0					0.52
31.083	0.00	0.01	0.098	0					0.52
31.167	0.00	0.01	0.098	0					0.52
31.250	0.00	0.01	0.098	0					0.52
31.333	0.00	0.01	0.098	0					0.52
31.417	0.00	0.01	0.097	0					0.52
31.500	0.00	0.01	0.097	0					0.52
31.583	0.00	0.01	0.097	0					0.52
31.667	0.00	0.01	0.097	0					0.52
31.750	0.00	0.01	0.097	0					0.52
31.833	0.00	0.01	0.097	0					0.52
31.917	0.00	0.01	0.097	0					0.52
32.000	0.00	0.01	0.097	0					0.52
32.083	0.00	0.01	0.097	0					0.52
32.167	0.00	0.01	0.097	0					0.52
32.250	0.00	0.01	0.097	0					0.52
32.333	0.00	0.01	0.097	0					0.52
32.417	0.00	0.01	0.097	0					0.52
32.500	0.00	0.01	0.097	0					0.52
32.583	0.00	0.01	0.097	0					0.52
32.667	0.00	0.01	0.097	0					0.52
32.750	0.00	0.01	0.097	0					0.52
32.833	0.00	0.01	0.097	0					0.52
32.917	0.00	0.01	0.097	0					0.52
33.000	0.00	0.01	0.097	0					0.52
33.083	0.00	0.01	0.096	0					0.52
33.167	0.00	0.01	0.096	0					0.52
33.250	0.00	0.01	0.096	0					0.52
33.333	0.00	0.01	0.096	0					0.52
33.417	0.00	0.01	0.096	0					0.52
33.500	0.00	0.01	0.096	0					0.52
33.583	0.00	0.01	0.096	0					0.52
33.667	0.00	0.01	0.096	0					0.52
33.750	0.00	0.01	0.096	0					0.51
33.833	0.00	0.01	0.096	0					0.51
33.917	0.00	0.01	0.096	0					0.51
34.000	0.00	0.01	0.096	0					0.51
34.083	0.00	0.01	0.096	0					0.51
34.167	0.00	0.01	0.096	0					0.51
34.250	0.00	0.01	0.096	0					0.51
34.333	0.00	0.01	0.096	0					0.51
34.417	0.00	0.01	0.096	0					0.51
34.500	0.00	0.01	0.096	0					0.51
34.583	0.00	0.01	0.096	0					0.51
34.667	0.00	0.01	0.096	0					0.51
34.750	0.00	0.01	0.096	0					0.51
34.833	0.00	0.00	0.096	0					0.51
34.917	0.00	0.00	0.096	0					0.51

35.000	0.00	0.00	0.096	0					0.51
35.083	0.00	0.00	0.096	0					0.51
35.167	0.00	0.00	0.095	0					0.51
35.250	0.00	0.00	0.095	0					0.51
35.333	0.00	0.00	0.095	0					0.51
35.417	0.00	0.00	0.095	0					0.51
35.500	0.00	0.00	0.095	0					0.51
35.583	0.00	0.00	0.095	0					0.51
35.667	0.00	0.00	0.095	0					0.51
35.750	0.00	0.00	0.095	0					0.51
35.833	0.00	0.00	0.095	0					0.51
35.917	0.00	0.00	0.095	0					0.51
36.000	0.00	0.00	0.095	0					0.51
36.083	0.00	0.00	0.095	0					0.51
36.167	0.00	0.00	0.095	0					0.51
36.250	0.00	0.00	0.095	0					0.51
36.333	0.00	0.00	0.095	0					0.51
36.417	0.00	0.00	0.095	0					0.51
36.500	0.00	0.00	0.095	0					0.51
36.583	0.00	0.00	0.095	0					0.51
36.667	0.00	0.00	0.095	0					0.51
36.750	0.00	0.00	0.095	0					0.51
36.833	0.00	0.00	0.095	0					0.51
36.917	0.00	0.00	0.095	0					0.51
37.000	0.00	0.00	0.095	0					0.51
37.083	0.00	0.00	0.095	0					0.51
37.167	0.00	0.00	0.095	0					0.51
37.250	0.00	0.00	0.095	0					0.51
37.333	0.00	0.00	0.095	0					0.51
37.417	0.00	0.00	0.095	0					0.51
37.500	0.00	0.00	0.095	0					0.51
37.583	0.00	0.00	0.095	0					0.51
37.667	0.00	0.00	0.095	0					0.51
37.750	0.00	0.00	0.095	0					0.51
37.833	0.00	0.00	0.095	0					0.51
37.917	0.00	0.00	0.095	0					0.51
38.000	0.00	0.00	0.095	0					0.51
38.083	0.00	0.00	0.095	0					0.51
38.167	0.00	0.00	0.095	0					0.51
38.250	0.00	0.00	0.095	0					0.51
38.333	0.00	0.00	0.095	0					0.51
38.417	0.00	0.00	0.095	0					0.51
38.500	0.00	0.00	0.094	0					0.51
38.583	0.00	0.00	0.094	0					0.51
38.667	0.00	0.00	0.094	0					0.51
38.750	0.00	0.00	0.094	0					0.51
38.833	0.00	0.00	0.094	0					0.51
38.917	0.00	0.00	0.094	0					0.51
39.000	0.00	0.00	0.094	0					0.51
39.083	0.00	0.00	0.094	0					0.51

39.167	0.00	0.00	0.094	0					0.51
39.250	0.00	0.00	0.094	0					0.51
39.333	0.00	0.00	0.094	0					0.51
39.417	0.00	0.00	0.094	0					0.51
39.500	0.00	0.00	0.094	0					0.51
39.583	0.00	0.00	0.094	0					0.51
39.667	0.00	0.00	0.094	0					0.51
39.750	0.00	0.00	0.094	0					0.51
39.833	0.00	0.00	0.094	0					0.51
39.917	0.00	0.00	0.094	0					0.51
40.000	0.00	0.00	0.094	0					0.51
40.083	0.00	0.00	0.094	0					0.51
40.167	0.00	0.00	0.094	0					0.51
40.250	0.00	0.00	0.094	0					0.51
40.333	0.00	0.00	0.094	0					0.51
40.417	0.00	0.00	0.094	0					0.51
40.500	0.00	0.00	0.094	0					0.51
40.583	0.00	0.00	0.094	0					0.51
40.667	0.00	0.00	0.094	0					0.51
40.750	0.00	0.00	0.094	0					0.51
40.833	0.00	0.00	0.094	0					0.50
40.917	0.00	0.00	0.094	0					0.50
41.000	0.00	0.00	0.094	0					0.50
41.083	0.00	0.00	0.094	0					0.50
41.167	0.00	0.00	0.094	0					0.50
41.250	0.00	0.00	0.094	0					0.50
41.333	0.00	0.00	0.094	0					0.50
41.417	0.00	0.00	0.094	0					0.50
41.500	0.00	0.00	0.094	0					0.50
41.583	0.00	0.00	0.094	0					0.50
41.667	0.00	0.00	0.094	0					0.50
41.750	0.00	0.00	0.094	0					0.50
41.833	0.00	0.00	0.094	0					0.50
41.917	0.00	0.00	0.094	0					0.50
42.000	0.00	0.00	0.094	0					0.50
42.083	0.00	0.00	0.094	0					0.50
42.167	0.00	0.00	0.094	0					0.50
42.250	0.00	0.00	0.094	0					0.50
42.333	0.00	0.00	0.094	0					0.50
42.417	0.00	0.00	0.094	0					0.50
42.500	0.00	0.00	0.094	0					0.50
42.583	0.00	0.00	0.094	0					0.50
42.667	0.00	0.00	0.094	0					0.50
42.750	0.00	0.00	0.094	0					0.50
42.833	0.00	0.00	0.094	0					0.50
42.917	0.00	0.00	0.094	0					0.50
43.000	0.00	0.00	0.094	0					0.50
43.083	0.00	0.00	0.094	0					0.50
43.167	0.00	0.00	0.094	0					0.50
43.250	0.00	0.00	0.094	0					0.50

43.333	0.00	0.00	0.094	0					0.50
43.417	0.00	0.00	0.094	0					0.50
43.500	0.00	0.00	0.094	0					0.50
43.583	0.00	0.00	0.094	0					0.50
43.667	0.00	0.00	0.094	0					0.50
43.750	0.00	0.00	0.094	0					0.50
43.833	0.00	0.00	0.094	0					0.50
43.917	0.00	0.00	0.094	0					0.50
44.000	0.00	0.00	0.094	0					0.50
44.083	0.00	0.00	0.094	0					0.50
44.167	0.00	0.00	0.094	0					0.50
44.250	0.00	0.00	0.094	0					0.50
44.333	0.00	0.00	0.094	0					0.50
44.417	0.00	0.00	0.094	0					0.50
44.500	0.00	0.00	0.094	0					0.50
44.583	0.00	0.00	0.094	0					0.50
44.667	0.00	0.00	0.094	0					0.50
44.750	0.00	0.00	0.094	0					0.50
44.833	0.00	0.00	0.094	0					0.50
44.917	0.00	0.00	0.094	0					0.50
45.000	0.00	0.00	0.094	0					0.50
45.083	0.00	0.00	0.094	0					0.50
45.167	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 542

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.256 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 1 2YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH62.rte
*****HYDROGRAPH DATA*****
Number of intervals = 75
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 3.671 (CFS)
Total volume = 0.482 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 75

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.9	1.84	2.75	3.67	Depth (Ft.)
0.083	0.18	0.00	0.001	OI					0.00
0.167	0.35	0.00	0.002	O I					0.01
0.250	0.41	0.00	0.005	O I					0.03
0.333	0.42	0.00	0.008	O I					0.04
0.417	0.42	0.00	0.011	O I					0.06
0.500	0.45	0.00	0.014	O I					0.07
0.583	0.48	0.00	0.017	O I					0.09
0.667	0.49	0.00	0.020	O I					0.11
0.750	0.49	0.00	0.024	O I					0.13
0.833	0.49	0.00	0.027	O I					0.15
0.917	0.49	0.00	0.030	O I					0.16
1.000	0.52	0.00	0.034	O I					0.18
1.083	0.55	0.00	0.038	O I					0.20
1.167	0.56	0.00	0.041	O I					0.22
1.250	0.56	0.00	0.045	O I					0.24
1.333	0.56	0.00	0.049	O I					0.26
1.417	0.56	0.00	0.053	O I					0.28
1.500	0.56	0.00	0.057	O I					0.31
1.583	0.56	0.00	0.061	O I					0.33

5.833	0.41	0.20	0.435	O I					1.98
5.917	0.29	0.20	0.436	OI					1.98
6.000	0.19	0.20	0.436	O					1.98
6.083	0.08	0.20	0.435	IO					1.98
6.167	0.01	0.20	0.434	IO					1.98
6.250	0.00	0.20	0.433	IO					1.97
6.333	0.00	0.20	0.432	IO					1.97
6.417	0.00	0.20	0.430	IO					1.96
6.500	0.00	0.20	0.429	IO					1.96
6.583	0.00	0.20	0.428	IO					1.95
6.667	0.00	0.20	0.426	IO					1.95
6.750	0.00	0.20	0.425	IO					1.94
6.833	0.00	0.20	0.424	IO					1.94
6.917	0.00	0.20	0.422	IO					1.93
7.000	0.00	0.20	0.421	IO					1.92
7.083	0.00	0.20	0.420	IO					1.92
7.167	0.00	0.20	0.418	IO					1.91
7.250	0.00	0.20	0.417	IO					1.91
7.333	0.00	0.20	0.416	IO					1.90
7.417	0.00	0.20	0.414	IO					1.90
7.500	0.00	0.20	0.413	IO					1.89
7.583	0.00	0.20	0.411	IO					1.89
7.667	0.00	0.20	0.410	IO					1.88
7.750	0.00	0.20	0.409	IO					1.88
7.833	0.00	0.20	0.407	IO					1.87
7.917	0.00	0.20	0.406	IO					1.87
8.000	0.00	0.20	0.405	IO					1.86
8.083	0.00	0.20	0.403	IO					1.86
8.167	0.00	0.20	0.402	IO					1.85
8.250	0.00	0.20	0.401	IO					1.84
8.333	0.00	0.20	0.399	IO					1.84
8.417	0.00	0.20	0.398	IO					1.83
8.500	0.00	0.20	0.397	IO					1.83
8.583	0.00	0.20	0.395	IO					1.82
8.667	0.00	0.20	0.394	IO					1.82
8.750	0.00	0.20	0.393	IO					1.81
8.833	0.00	0.20	0.391	IO					1.81
8.917	0.00	0.20	0.390	IO					1.80
9.000	0.00	0.20	0.388	IO					1.80
9.083	0.00	0.20	0.387	IO					1.79
9.167	0.00	0.20	0.386	IO					1.79
9.250	0.00	0.20	0.384	IO					1.78
9.333	0.00	0.20	0.383	IO					1.78
9.417	0.00	0.20	0.382	IO					1.77
9.500	0.00	0.20	0.380	IO					1.77
9.583	0.00	0.20	0.379	IO					1.76
9.667	0.00	0.20	0.378	IO					1.75
9.750	0.00	0.20	0.376	IO					1.75
9.833	0.00	0.20	0.375	IO					1.74
9.917	0.00	0.20	0.374	IO					1.74

10.000	0.00	0.20	0.372	IO					1.73
10.083	0.00	0.20	0.371	IO					1.73
10.167	0.00	0.20	0.370	IO					1.72
10.250	0.00	0.20	0.368	IO					1.72
10.333	0.00	0.20	0.367	IO					1.71
10.417	0.00	0.20	0.365	IO					1.71
10.500	0.00	0.20	0.364	IO					1.70
10.583	0.00	0.20	0.363	IO					1.70
10.667	0.00	0.20	0.361	IO					1.69
10.750	0.00	0.20	0.360	IO					1.69
10.833	0.00	0.20	0.359	IO					1.68
10.917	0.00	0.20	0.357	IO					1.67
11.000	0.00	0.20	0.356	IO					1.67
11.083	0.00	0.20	0.355	IO					1.66
11.167	0.00	0.20	0.353	IO					1.66
11.250	0.00	0.20	0.352	IO					1.65
11.333	0.00	0.20	0.351	IO					1.65
11.417	0.00	0.20	0.349	IO					1.64
11.500	0.00	0.20	0.348	IO					1.64
11.583	0.00	0.20	0.347	IO					1.63
11.667	0.00	0.20	0.345	IO					1.63
11.750	0.00	0.20	0.344	IO					1.62
11.833	0.00	0.20	0.342	IO					1.62
11.917	0.00	0.20	0.341	IO					1.61
12.000	0.00	0.20	0.340	IO					1.61
12.083	0.00	0.20	0.338	IO					1.60
12.167	0.00	0.20	0.337	IO					1.59
12.250	0.00	0.20	0.336	IO					1.59
12.333	0.00	0.20	0.334	IO					1.58
12.417	0.00	0.20	0.333	IO					1.58
12.500	0.00	0.20	0.332	IO					1.57
12.583	0.00	0.20	0.330	IO					1.57
12.667	0.00	0.20	0.329	IO					1.56
12.750	0.00	0.20	0.328	IO					1.56
12.833	0.00	0.20	0.326	IO					1.55
12.917	0.00	0.20	0.325	IO					1.55
13.000	0.00	0.20	0.324	IO					1.54
13.083	0.00	0.20	0.322	IO					1.54
13.167	0.00	0.20	0.321	IO					1.53
13.250	0.00	0.20	0.319	IO					1.53
13.333	0.00	0.20	0.318	IO					1.52
13.417	0.00	0.20	0.317	IO					1.51
13.500	0.00	0.20	0.315	IO					1.51
13.583	0.00	0.20	0.314	IO					1.50
13.667	0.00	0.20	0.313	IO					1.50
13.750	0.00	0.20	0.311	IO					1.49
13.833	0.00	0.20	0.310	IO					1.49
13.917	0.00	0.20	0.309	IO					1.48
14.000	0.00	0.20	0.307	IO					1.48
14.083	0.00	0.20	0.306	IO					1.47

14.167	0.00	0.20	0.305	IO					1.46
14.250	0.00	0.20	0.303	IO					1.46
14.333	0.00	0.20	0.302	IO					1.45
14.417	0.00	0.20	0.301	IO					1.45
14.500	0.00	0.20	0.299	IO					1.44
14.583	0.00	0.20	0.298	IO					1.43
14.667	0.00	0.20	0.297	IO					1.43
14.750	0.00	0.20	0.295	IO					1.42
14.833	0.00	0.20	0.294	IO					1.42
14.917	0.00	0.20	0.292	IO					1.41
15.000	0.00	0.20	0.291	IO					1.41
15.083	0.00	0.20	0.290	IO					1.40
15.167	0.00	0.20	0.288	IO					1.39
15.250	0.00	0.20	0.287	IO					1.39
15.333	0.00	0.20	0.286	IO					1.38
15.417	0.00	0.20	0.284	IO					1.38
15.500	0.00	0.20	0.283	IO					1.37
15.583	0.00	0.20	0.282	IO					1.36
15.667	0.00	0.20	0.280	IO					1.36
15.750	0.00	0.20	0.279	IO					1.35
15.833	0.00	0.20	0.278	IO					1.35
15.917	0.00	0.20	0.276	IO					1.34
16.000	0.00	0.20	0.275	IO					1.34
16.083	0.00	0.20	0.274	IO					1.33
16.167	0.00	0.20	0.272	IO					1.32
16.250	0.00	0.20	0.271	IO					1.32
16.333	0.00	0.20	0.269	IO					1.31
16.417	0.00	0.20	0.268	IO					1.31
16.500	0.00	0.20	0.267	IO					1.30
16.583	0.00	0.20	0.265	IO					1.29
16.667	0.00	0.20	0.264	IO					1.29
16.750	0.00	0.20	0.263	IO					1.28
16.833	0.00	0.20	0.261	IO					1.28
16.917	0.00	0.20	0.260	IO					1.27
17.000	0.00	0.20	0.259	IO					1.27
17.083	0.00	0.20	0.257	IO					1.26
17.167	0.00	0.20	0.256	IO					1.25
17.250	0.00	0.20	0.255	IO					1.25
17.333	0.00	0.20	0.253	IO					1.24
17.417	0.00	0.20	0.252	IO					1.24
17.500	0.00	0.20	0.251	IO					1.23
17.583	0.00	0.20	0.249	IO					1.22
17.667	0.00	0.20	0.248	IO					1.22
17.750	0.00	0.20	0.246	IO					1.21
17.833	0.00	0.20	0.245	IO					1.21
17.917	0.00	0.20	0.244	IO					1.20
18.000	0.00	0.20	0.242	IO					1.20
18.083	0.00	0.20	0.241	IO					1.19
18.167	0.00	0.20	0.240	IO					1.18
18.250	0.00	0.20	0.238	IO					1.18

18.333	0.00	0.20	0.237	IO					1.17
18.417	0.00	0.20	0.236	IO					1.17
18.500	0.00	0.20	0.234	IO					1.16
18.583	0.00	0.20	0.233	IO					1.15
18.667	0.00	0.20	0.232	IO					1.15
18.750	0.00	0.20	0.230	IO					1.14
18.833	0.00	0.20	0.229	IO					1.14
18.917	0.00	0.20	0.228	IO					1.13
19.000	0.00	0.20	0.226	IO					1.13
19.083	0.00	0.20	0.225	IO					1.12
19.167	0.00	0.20	0.223	IO					1.11
19.250	0.00	0.20	0.222	IO					1.11
19.333	0.00	0.20	0.221	IO					1.10
19.417	0.00	0.20	0.219	IO					1.10
19.500	0.00	0.20	0.218	IO					1.09
19.583	0.00	0.20	0.217	IO					1.09
19.667	0.00	0.20	0.215	IO					1.08
19.750	0.00	0.20	0.214	IO					1.07
19.833	0.00	0.20	0.213	IO					1.07
19.917	0.00	0.20	0.211	IO					1.06
20.000	0.00	0.20	0.210	IO					1.06
20.083	0.00	0.20	0.209	IO					1.05
20.167	0.00	0.20	0.207	IO					1.04
20.250	0.00	0.20	0.206	IO					1.04
20.333	0.00	0.20	0.205	IO					1.03
20.417	0.00	0.20	0.203	IO					1.03
20.500	0.00	0.20	0.202	IO					1.02
20.583	0.00	0.20	0.200	IO					1.02
20.667	0.00	0.20	0.199	IO					1.01
20.750	0.00	0.20	0.198	IO					1.00
20.833	0.00	0.20	0.196	IO					1.00
20.917	0.00	0.19	0.195	IO					0.99
21.000	0.00	0.19	0.194	IO					0.98
21.083	0.00	0.19	0.192	IO					0.98
21.167	0.00	0.19	0.191	IO					0.97
21.250	0.00	0.18	0.190	IO					0.97
21.333	0.00	0.18	0.189	IO					0.96
21.417	0.00	0.18	0.187	IO					0.95
21.500	0.00	0.18	0.186	IO					0.95
21.583	0.00	0.17	0.185	IO					0.94
21.667	0.00	0.17	0.184	IO					0.94
21.750	0.00	0.17	0.183	IO					0.93
21.833	0.00	0.17	0.181	IO					0.93
21.917	0.00	0.16	0.180	IO					0.92
22.000	0.00	0.16	0.179	IO					0.91
22.083	0.00	0.16	0.178	IO					0.91
22.167	0.00	0.16	0.177	IO					0.90
22.250	0.00	0.16	0.176	IO					0.90
22.333	0.00	0.15	0.175	IO					0.89
22.417	0.00	0.15	0.174	IO					0.89

22.500	0.00	0.15	0.173	IO					0.88
22.583	0.00	0.15	0.172	IO					0.88
22.667	0.00	0.15	0.171	IO					0.87
22.750	0.00	0.14	0.170	IO					0.87
22.833	0.00	0.14	0.169	IO					0.86
22.917	0.00	0.14	0.168	IO					0.86
23.000	0.00	0.14	0.167	IO					0.85
23.083	0.00	0.14	0.166	IO					0.85
23.167	0.00	0.14	0.165	IO					0.85
23.250	0.00	0.13	0.164	IO					0.84
23.333	0.00	0.13	0.163	IO					0.84
23.417	0.00	0.13	0.162	IO					0.83
23.500	0.00	0.13	0.161	IO					0.83
23.583	0.00	0.13	0.160	IO					0.82
23.667	0.00	0.13	0.159	IO					0.82
23.750	0.00	0.12	0.159	IO					0.82
23.833	0.00	0.12	0.158	IO					0.81
23.917	0.00	0.12	0.157	IO					0.81
24.000	0.00	0.12	0.156	IO					0.80
24.083	0.00	0.12	0.155	IO					0.80
24.167	0.00	0.12	0.154	IO					0.80
24.250	0.00	0.11	0.154	0					0.79
24.333	0.00	0.11	0.153	0					0.79
24.417	0.00	0.11	0.152	0					0.78
24.500	0.00	0.11	0.151	0					0.78
24.583	0.00	0.11	0.151	0					0.78
24.667	0.00	0.11	0.150	0					0.77
24.750	0.00	0.11	0.149	0					0.77
24.833	0.00	0.10	0.148	0					0.77
24.917	0.00	0.10	0.148	0					0.76
25.000	0.00	0.10	0.147	0					0.76
25.083	0.00	0.10	0.146	0					0.76
25.167	0.00	0.10	0.146	0					0.75
25.250	0.00	0.10	0.145	0					0.75
25.333	0.00	0.10	0.144	0					0.75
25.417	0.00	0.10	0.144	0					0.74
25.500	0.00	0.09	0.143	0					0.74
25.583	0.00	0.09	0.142	0					0.74
25.667	0.00	0.09	0.142	0					0.73
25.750	0.00	0.09	0.141	0					0.73
25.833	0.00	0.09	0.140	0					0.73
25.917	0.00	0.09	0.140	0					0.72
26.000	0.00	0.09	0.139	0					0.72
26.083	0.00	0.09	0.139	0					0.72
26.167	0.00	0.08	0.138	0					0.72
26.250	0.00	0.08	0.137	0					0.71
26.333	0.00	0.08	0.137	0					0.71
26.417	0.00	0.08	0.136	0					0.71
26.500	0.00	0.08	0.136	0					0.71
26.583	0.00	0.08	0.135	0					0.70

26.667	0.00	0.08	0.135	0					0.70
26.750	0.00	0.08	0.134	0					0.70
26.833	0.00	0.08	0.134	0					0.70
26.917	0.00	0.08	0.133	0					0.69
27.000	0.00	0.07	0.133	0					0.69
27.083	0.00	0.07	0.132	0					0.69
27.167	0.00	0.07	0.132	0					0.69
27.250	0.00	0.07	0.131	0					0.68
27.333	0.00	0.07	0.131	0					0.68
27.417	0.00	0.07	0.130	0					0.68
27.500	0.00	0.07	0.130	0					0.68
27.583	0.00	0.07	0.129	0					0.67
27.667	0.00	0.07	0.129	0					0.67
27.750	0.00	0.07	0.128	0					0.67
27.833	0.00	0.07	0.128	0					0.67
27.917	0.00	0.06	0.127	0					0.66
28.000	0.00	0.06	0.127	0					0.66
28.083	0.00	0.06	0.126	0					0.66
28.167	0.00	0.06	0.126	0					0.66
28.250	0.00	0.06	0.126	0					0.66
28.333	0.00	0.06	0.125	0					0.65
28.417	0.00	0.06	0.125	0					0.65
28.500	0.00	0.06	0.124	0					0.65
28.583	0.00	0.06	0.124	0					0.65
28.667	0.00	0.06	0.123	0					0.65
28.750	0.00	0.06	0.123	0					0.64
28.833	0.00	0.06	0.123	0					0.64
28.917	0.00	0.06	0.122	0					0.64
29.000	0.00	0.05	0.122	0					0.64
29.083	0.00	0.05	0.122	0					0.64
29.167	0.00	0.05	0.121	0					0.64
29.250	0.00	0.05	0.121	0					0.63
29.333	0.00	0.05	0.120	0					0.63
29.417	0.00	0.05	0.120	0					0.63
29.500	0.00	0.05	0.120	0					0.63
29.583	0.00	0.05	0.119	0					0.63
29.667	0.00	0.05	0.119	0					0.63
29.750	0.00	0.05	0.119	0					0.62
29.833	0.00	0.05	0.118	0					0.62
29.917	0.00	0.05	0.118	0					0.62
30.000	0.00	0.05	0.118	0					0.62
30.083	0.00	0.05	0.117	0					0.62
30.167	0.00	0.05	0.117	0					0.62
30.250	0.00	0.04	0.117	0					0.61
30.333	0.00	0.04	0.116	0					0.61
30.417	0.00	0.04	0.116	0					0.61
30.500	0.00	0.04	0.116	0					0.61
30.583	0.00	0.04	0.116	0					0.61
30.667	0.00	0.04	0.115	0					0.61
30.750	0.00	0.04	0.115	0					0.61

30.833	0.00	0.04	0.115	0					0.60
30.917	0.00	0.04	0.114	0					0.60
31.000	0.00	0.04	0.114	0					0.60
31.083	0.00	0.04	0.114	0					0.60
31.167	0.00	0.04	0.114	0					0.60
31.250	0.00	0.04	0.113	0					0.60
31.333	0.00	0.04	0.113	0					0.60
31.417	0.00	0.04	0.113	0					0.60
31.500	0.00	0.04	0.113	0					0.59
31.583	0.00	0.04	0.112	0					0.59
31.667	0.00	0.04	0.112	0					0.59
31.750	0.00	0.04	0.112	0					0.59
31.833	0.00	0.04	0.112	0					0.59
31.917	0.00	0.03	0.111	0					0.59
32.000	0.00	0.03	0.111	0					0.59
32.083	0.00	0.03	0.111	0					0.59
32.167	0.00	0.03	0.111	0					0.58
32.250	0.00	0.03	0.110	0					0.58
32.333	0.00	0.03	0.110	0					0.58
32.417	0.00	0.03	0.110	0					0.58
32.500	0.00	0.03	0.110	0					0.58
32.583	0.00	0.03	0.110	0					0.58
32.667	0.00	0.03	0.109	0					0.58
32.750	0.00	0.03	0.109	0					0.58
32.833	0.00	0.03	0.109	0					0.58
32.917	0.00	0.03	0.109	0					0.58
33.000	0.00	0.03	0.108	0					0.57
33.083	0.00	0.03	0.108	0					0.57
33.167	0.00	0.03	0.108	0					0.57
33.250	0.00	0.03	0.108	0					0.57
33.333	0.00	0.03	0.108	0					0.57
33.417	0.00	0.03	0.108	0					0.57
33.500	0.00	0.03	0.107	0					0.57
33.583	0.00	0.03	0.107	0					0.57
33.667	0.00	0.03	0.107	0					0.57
33.750	0.00	0.03	0.107	0					0.57
33.833	0.00	0.03	0.107	0					0.57
33.917	0.00	0.03	0.106	0					0.56
34.000	0.00	0.03	0.106	0					0.56
34.083	0.00	0.02	0.106	0					0.56
34.167	0.00	0.02	0.106	0					0.56
34.250	0.00	0.02	0.106	0					0.56
34.333	0.00	0.02	0.106	0					0.56
34.417	0.00	0.02	0.105	0					0.56
34.500	0.00	0.02	0.105	0					0.56
34.583	0.00	0.02	0.105	0					0.56
34.667	0.00	0.02	0.105	0					0.56
34.750	0.00	0.02	0.105	0					0.56
34.833	0.00	0.02	0.105	0					0.56
34.917	0.00	0.02	0.104	0					0.56

35.000	0.00	0.02	0.104	0					0.55
35.083	0.00	0.02	0.104	0					0.55
35.167	0.00	0.02	0.104	0					0.55
35.250	0.00	0.02	0.104	0					0.55
35.333	0.00	0.02	0.104	0					0.55
35.417	0.00	0.02	0.104	0					0.55
35.500	0.00	0.02	0.103	0					0.55
35.583	0.00	0.02	0.103	0					0.55
35.667	0.00	0.02	0.103	0					0.55
35.750	0.00	0.02	0.103	0					0.55
35.833	0.00	0.02	0.103	0					0.55
35.917	0.00	0.02	0.103	0					0.55
36.000	0.00	0.02	0.103	0					0.55
36.083	0.00	0.02	0.103	0					0.55
36.167	0.00	0.02	0.102	0					0.55
36.250	0.00	0.02	0.102	0					0.54
36.333	0.00	0.02	0.102	0					0.54
36.417	0.00	0.02	0.102	0					0.54
36.500	0.00	0.02	0.102	0					0.54
36.583	0.00	0.02	0.102	0					0.54
36.667	0.00	0.02	0.102	0					0.54
36.750	0.00	0.02	0.102	0					0.54
36.833	0.00	0.02	0.102	0					0.54
36.917	0.00	0.02	0.101	0					0.54
37.000	0.00	0.02	0.101	0					0.54
37.083	0.00	0.02	0.101	0					0.54
37.167	0.00	0.02	0.101	0					0.54
37.250	0.00	0.02	0.101	0					0.54
37.333	0.00	0.01	0.101	0					0.54
37.417	0.00	0.01	0.101	0					0.54
37.500	0.00	0.01	0.101	0					0.54
37.583	0.00	0.01	0.101	0					0.54
37.667	0.00	0.01	0.100	0					0.54
37.750	0.00	0.01	0.100	0					0.54
37.833	0.00	0.01	0.100	0					0.54
37.917	0.00	0.01	0.100	0					0.53
38.000	0.00	0.01	0.100	0					0.53
38.083	0.00	0.01	0.100	0					0.53
38.167	0.00	0.01	0.100	0					0.53
38.250	0.00	0.01	0.100	0					0.53
38.333	0.00	0.01	0.100	0					0.53
38.417	0.00	0.01	0.100	0					0.53
38.500	0.00	0.01	0.100	0					0.53
38.583	0.00	0.01	0.099	0					0.53
38.667	0.00	0.01	0.099	0					0.53
38.750	0.00	0.01	0.099	0					0.53
38.833	0.00	0.01	0.099	0					0.53
38.917	0.00	0.01	0.099	0					0.53
39.000	0.00	0.01	0.099	0					0.53
39.083	0.00	0.01	0.099	0					0.53

39.167	0.00	0.01	0.099	0					0.53
39.250	0.00	0.01	0.099	0					0.53
39.333	0.00	0.01	0.099	0					0.53
39.417	0.00	0.01	0.099	0					0.53
39.500	0.00	0.01	0.099	0					0.53
39.583	0.00	0.01	0.099	0					0.53
39.667	0.00	0.01	0.098	0					0.53
39.750	0.00	0.01	0.098	0					0.53
39.833	0.00	0.01	0.098	0					0.53
39.917	0.00	0.01	0.098	0					0.53
40.000	0.00	0.01	0.098	0					0.52
40.083	0.00	0.01	0.098	0					0.52
40.167	0.00	0.01	0.098	0					0.52
40.250	0.00	0.01	0.098	0					0.52
40.333	0.00	0.01	0.098	0					0.52
40.417	0.00	0.01	0.098	0					0.52
40.500	0.00	0.01	0.098	0					0.52
40.583	0.00	0.01	0.098	0					0.52
40.667	0.00	0.01	0.098	0					0.52
40.750	0.00	0.01	0.098	0					0.52
40.833	0.00	0.01	0.098	0					0.52
40.917	0.00	0.01	0.098	0					0.52
41.000	0.00	0.01	0.097	0					0.52
41.083	0.00	0.01	0.097	0					0.52
41.167	0.00	0.01	0.097	0					0.52
41.250	0.00	0.01	0.097	0					0.52
41.333	0.00	0.01	0.097	0					0.52
41.417	0.00	0.01	0.097	0					0.52
41.500	0.00	0.01	0.097	0					0.52
41.583	0.00	0.01	0.097	0					0.52
41.667	0.00	0.01	0.097	0					0.52
41.750	0.00	0.01	0.097	0					0.52
41.833	0.00	0.01	0.097	0					0.52
41.917	0.00	0.01	0.097	0					0.52
42.000	0.00	0.01	0.097	0					0.52
42.083	0.00	0.01	0.097	0					0.52
42.167	0.00	0.01	0.097	0					0.52
42.250	0.00	0.01	0.097	0					0.52
42.333	0.00	0.01	0.097	0					0.52
42.417	0.00	0.01	0.097	0					0.52
42.500	0.00	0.01	0.097	0					0.52
42.583	0.00	0.01	0.096	0					0.52
42.667	0.00	0.01	0.096	0					0.52
42.750	0.00	0.01	0.096	0					0.52
42.833	0.00	0.01	0.096	0					0.52
42.917	0.00	0.01	0.096	0					0.52
43.000	0.00	0.01	0.096	0					0.52
43.083	0.00	0.01	0.096	0					0.52
43.167	0.00	0.01	0.096	0					0.52
43.250	0.00	0.01	0.096	0					0.52

43.333	0.00	0.01	0.096	0					0.51
43.417	0.00	0.01	0.096	0					0.51
43.500	0.00	0.01	0.096	0					0.51
43.583	0.00	0.01	0.096	0					0.51
43.667	0.00	0.01	0.096	0					0.51
43.750	0.00	0.01	0.096	0					0.51
43.833	0.00	0.01	0.096	0					0.51
43.917	0.00	0.01	0.096	0					0.51
44.000	0.00	0.01	0.096	0					0.51
44.083	0.00	0.01	0.096	0					0.51
44.167	0.00	0.01	0.096	0					0.51
44.250	0.00	0.01	0.096	0					0.51
44.333	0.00	0.00	0.096	0					0.51
44.417	0.00	0.00	0.096	0					0.51
44.500	0.00	0.00	0.096	0					0.51
44.583	0.00	0.00	0.096	0					0.51
44.667	0.00	0.00	0.096	0					0.51
44.750	0.00	0.00	0.095	0					0.51
44.833	0.00	0.00	0.095	0					0.51
44.917	0.00	0.00	0.095	0					0.51
45.000	0.00	0.00	0.095	0					0.51
45.083	0.00	0.00	0.095	0					0.51
45.167	0.00	0.00	0.095	0					0.51
45.250	0.00	0.00	0.095	0					0.51
45.333	0.00	0.00	0.095	0					0.51
45.417	0.00	0.00	0.095	0					0.51
45.500	0.00	0.00	0.095	0					0.51
45.583	0.00	0.00	0.095	0					0.51
45.667	0.00	0.00	0.095	0					0.51
45.750	0.00	0.00	0.095	0					0.51
45.833	0.00	0.00	0.095	0					0.51
45.917	0.00	0.00	0.095	0					0.51
46.000	0.00	0.00	0.095	0					0.51
46.083	0.00	0.00	0.095	0					0.51
46.167	0.00	0.00	0.095	0					0.51
46.250	0.00	0.00	0.095	0					0.51
46.333	0.00	0.00	0.095	0					0.51
46.417	0.00	0.00	0.095	0					0.51
46.500	0.00	0.00	0.095	0					0.51
46.583	0.00	0.00	0.095	0					0.51
46.667	0.00	0.00	0.095	0					0.51
46.750	0.00	0.00	0.095	0					0.51
46.833	0.00	0.00	0.095	0					0.51
46.917	0.00	0.00	0.095	0					0.51
47.000	0.00	0.00	0.095	0					0.51
47.083	0.00	0.00	0.095	0					0.51
47.167	0.00	0.00	0.095	0					0.51
47.250	0.00	0.00	0.095	0					0.51
47.333	0.00	0.00	0.095	0					0.51
47.417	0.00	0.00	0.095	0					0.51

47.500	0.00	0.00	0.095	0					0.51
47.583	0.00	0.00	0.095	0					0.51
47.667	0.00	0.00	0.095	0					0.51
47.750	0.00	0.00	0.095	0					0.51
47.833	0.00	0.00	0.095	0					0.51
47.917	0.00	0.00	0.095	0					0.51
48.000	0.00	0.00	0.094	0					0.51
48.083	0.00	0.00	0.094	0					0.51
48.167	0.00	0.00	0.094	0					0.51
48.250	0.00	0.00	0.094	0					0.51
48.333	0.00	0.00	0.094	0					0.51
48.417	0.00	0.00	0.094	0					0.51
48.500	0.00	0.00	0.094	0					0.51
48.583	0.00	0.00	0.094	0					0.51
48.667	0.00	0.00	0.094	0					0.51
48.750	0.00	0.00	0.094	0					0.51
48.833	0.00	0.00	0.094	0					0.51
48.917	0.00	0.00	0.094	0					0.51
49.000	0.00	0.00	0.094	0					0.51
49.083	0.00	0.00	0.094	0					0.51
49.167	0.00	0.00	0.094	0					0.51
49.250	0.00	0.00	0.094	0					0.51
49.333	0.00	0.00	0.094	0					0.51
49.417	0.00	0.00	0.094	0					0.51
49.500	0.00	0.00	0.094	0					0.51
49.583	0.00	0.00	0.094	0					0.51
49.667	0.00	0.00	0.094	0					0.51
49.750	0.00	0.00	0.094	0					0.51
49.833	0.00	0.00	0.094	0					0.51
49.917	0.00	0.00	0.094	0					0.51
50.000	0.00	0.00	0.094	0					0.51
50.083	0.00	0.00	0.094	0					0.51
50.167	0.00	0.00	0.094	0					0.51
50.250	0.00	0.00	0.094	0					0.51
50.333	0.00	0.00	0.094	0					0.50
50.417	0.00	0.00	0.094	0					0.50
50.500	0.00	0.00	0.094	0					0.50
50.583	0.00	0.00	0.094	0					0.50
50.667	0.00	0.00	0.094	0					0.50
50.750	0.00	0.00	0.094	0					0.50
50.833	0.00	0.00	0.094	0					0.50
50.917	0.00	0.00	0.094	0					0.50
51.000	0.00	0.00	0.094	0					0.50
51.083	0.00	0.00	0.094	0					0.50
51.167	0.00	0.00	0.094	0					0.50
51.250	0.00	0.00	0.094	0					0.50
51.333	0.00	0.00	0.094	0					0.50
51.417	0.00	0.00	0.094	0					0.50
51.500	0.00	0.00	0.094	0					0.50
51.583	0.00	0.00	0.094	0					0.50

51.667	0.00	0.00	0.094	0					0.50
51.750	0.00	0.00	0.094	0					0.50
51.833	0.00	0.00	0.094	0					0.50
51.917	0.00	0.00	0.094	0					0.50
52.000	0.00	0.00	0.094	0					0.50
52.083	0.00	0.00	0.094	0					0.50
52.167	0.00	0.00	0.094	0					0.50
52.250	0.00	0.00	0.094	0					0.50
52.333	0.00	0.00	0.094	0					0.50
52.417	0.00	0.00	0.094	0					0.50
52.500	0.00	0.00	0.094	0					0.50
52.583	0.00	0.00	0.094	0					0.50
52.667	0.00	0.00	0.094	0					0.50
52.750	0.00	0.00	0.094	0					0.50
52.833	0.00	0.00	0.094	0					0.50
52.917	0.00	0.00	0.094	0					0.50
53.000	0.00	0.00	0.094	0					0.50
53.083	0.00	0.00	0.094	0					0.50
53.167	0.00	0.00	0.094	0					0.50
53.250	0.00	0.00	0.094	0					0.50
53.333	0.00	0.00	0.094	0					0.50
53.417	0.00	0.00	0.094	0					0.50
53.500	0.00	0.00	0.094	0					0.50
53.583	0.00	0.00	0.094	0					0.50
53.667	0.00	0.00	0.094	0					0.50
53.750	0.00	0.00	0.094	0					0.50
53.833	0.00	0.00	0.094	0					0.50
53.917	0.00	0.00	0.094	0					0.50
54.000	0.00	0.00	0.094	0					0.50
54.083	0.00	0.00	0.094	0					0.50
54.167	0.00	0.00	0.094	0					0.50
54.250	0.00	0.00	0.094	0					0.50
54.333	0.00	0.00	0.094	0					0.50
54.417	0.00	0.00	0.094	0					0.50
54.500	0.00	0.00	0.094	0					0.50
54.583	0.00	0.00	0.094	0					0.50
54.667	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 656
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.196 (CFS)
Total volume = 0.389 (Ac.Ft)
Status of hydrographs being held in storage
Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
Peak (CFS) 0.000 0.000 0.000 0.000 0.000

Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 2YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH242.rte
*****HYDROGRAPH DATA*****
Number of intervals = 291
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.354 (CFS)
Total volume = 0.823 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 291

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.3	0.68	1.02	1.35	Depth (Ft.)
0.083	0.04	0.00	0.000	O					0.00
0.167	0.07	0.00	0.001	O I					0.00
0.250	0.08	0.00	0.001	O I					0.01
0.333	0.10	0.00	0.002	O I					0.01
0.417	0.12	0.00	0.002	O I					0.01
0.500	0.12	0.00	0.003	O I					0.02
0.583	0.12	0.00	0.004	O I					0.02
0.667	0.12	0.00	0.005	O I					0.03
0.750	0.12	0.00	0.006	O I					0.03
0.833	0.14	0.00	0.007	O I					0.04
0.917	0.16	0.00	0.008	O I					0.04
1.000	0.16	0.00	0.009	O I					0.05
1.083	0.14	0.00	0.010	O I					0.05
1.167	0.12	0.00	0.011	O I					0.06
1.250	0.12	0.00	0.011	O I					0.06
1.333	0.12	0.00	0.012	O I					0.07
1.417	0.12	0.00	0.013	O I					0.07
1.500	0.12	0.00	0.014	O I					0.07
1.583	0.12	0.00	0.015	O I					0.08

1.667	0.12	0.00	0.016	0	I					0.08
1.750	0.12	0.00	0.016	0	I					0.09
1.833	0.14	0.00	0.017	0	I					0.09
1.917	0.16	0.00	0.018	0	I					0.10
2.000	0.16	0.00	0.019	0	I					0.10
2.083	0.16	0.00	0.020	0	I					0.11
2.167	0.16	0.00	0.022	0	I					0.12
2.250	0.16	0.00	0.023	0	I					0.12
2.333	0.16	0.00	0.024	0	I					0.13
2.417	0.16	0.00	0.025	0	I					0.13
2.500	0.16	0.00	0.026	0	I					0.14
2.583	0.18	0.00	0.027	0	I					0.15
2.667	0.20	0.00	0.028	0	I					0.15
2.750	0.20	0.00	0.030	0	I					0.16
2.833	0.20	0.00	0.031	0	I					0.17
2.917	0.20	0.00	0.033	0	I					0.17
3.000	0.20	0.00	0.034	0	I					0.18
3.083	0.20	0.00	0.035	0	I					0.19
3.167	0.20	0.00	0.037	0	I					0.20
3.250	0.20	0.00	0.038	0	I					0.20
3.333	0.20	0.00	0.039	0	I					0.21
3.417	0.20	0.00	0.041	0	I					0.22
3.500	0.20	0.00	0.042	0	I					0.23
3.583	0.20	0.00	0.043	0	I					0.23
3.667	0.20	0.00	0.045	0	I					0.24
3.750	0.20	0.00	0.046	0	I					0.25
3.833	0.22	0.00	0.048	0	I					0.26
3.917	0.24	0.00	0.049	0	I					0.26
4.000	0.24	0.00	0.051	0	I					0.27
4.083	0.24	0.00	0.053	0	I					0.28
4.167	0.24	0.00	0.054	0	I					0.29
4.250	0.24	0.00	0.056	0	I					0.30
4.333	0.26	0.00	0.058	0	I					0.31
4.417	0.28	0.00	0.059	0	I					0.32
4.500	0.28	0.00	0.061	0	I					0.33
4.583	0.28	0.00	0.063	0	I					0.34
4.667	0.28	0.00	0.065	0	I					0.35
4.750	0.28	0.00	0.067	0	I					0.36
4.833	0.30	0.00	0.069	0	I					0.37
4.917	0.32	0.00	0.071	0	I					0.38
5.000	0.32	0.00	0.073	0	I					0.39
5.083	0.28	0.00	0.075	0	I					0.41
5.167	0.25	0.00	0.077	0	I					0.41
5.250	0.24	0.00	0.079	0	I					0.42
5.333	0.26	0.00	0.081	0	I					0.43
5.417	0.28	0.00	0.082	0	I					0.44
5.500	0.28	0.00	0.084	0	I					0.45
5.583	0.30	0.00	0.086	0	I					0.46
5.667	0.32	0.00	0.088	0	I					0.48
5.750	0.32	0.00	0.091	0	I					0.49

5.833	0.32	0.00	0.093	0	I					0.50
5.917	0.32	0.00	0.095	0	I					0.51
6.000	0.32	0.01	0.097	0	I					0.52
6.083	0.34	0.01	0.099	0	I					0.53
6.167	0.35	0.02	0.102	0	I					0.54
6.250	0.36	0.02	0.104	0	I					0.55
6.333	0.36	0.02	0.106	0	I					0.56
6.417	0.36	0.03	0.109	0	I					0.57
6.500	0.36	0.03	0.111	0	I					0.59
6.583	0.38	0.04	0.113	0	I					0.60
6.667	0.39	0.04	0.115	0	I					0.61
6.750	0.40	0.05	0.118	0	I					0.62
6.833	0.40	0.05	0.120	0	I					0.63
6.917	0.40	0.06	0.123	0	I					0.64
7.000	0.40	0.06	0.125	0	I					0.65
7.083	0.40	0.06	0.127	0	I					0.66
7.167	0.40	0.07	0.130	0	I					0.68
7.250	0.40	0.07	0.132	0	I					0.69
7.333	0.42	0.08	0.134	0	I					0.70
7.417	0.43	0.08	0.137	0	I					0.71
7.500	0.44	0.09	0.139	0	I					0.72
7.583	0.46	0.09	0.141	0	I					0.73
7.667	0.47	0.10	0.144	0	I					0.75
7.750	0.48	0.10	0.147	0	I					0.76
7.833	0.50	0.11	0.149	0	I					0.77
7.917	0.51	0.11	0.152	0	I					0.78
8.000	0.52	0.12	0.155	0	I					0.80
8.083	0.56	0.12	0.158	0	I					0.81
8.167	0.59	0.13	0.161	0	I					0.83
8.250	0.60	0.13	0.164	0	I					0.84
8.333	0.60	0.14	0.167	0	I					0.86
8.417	0.60	0.15	0.170	0	I					0.87
8.500	0.60	0.15	0.173	0	I					0.89
8.583	0.62	0.16	0.176	0	I					0.90
8.667	0.63	0.16	0.180	0	I					0.92
8.750	0.64	0.17	0.183	0	I					0.93
8.833	0.66	0.18	0.186	0	I					0.95
8.917	0.67	0.18	0.189	0	I					0.96
9.000	0.68	0.19	0.193	0	I					0.98
9.083	0.72	0.20	0.196	0	I					1.00
9.167	0.75	0.20	0.200	0	I					1.01
9.250	0.76	0.20	0.204	0	I					1.03
9.333	0.78	0.20	0.208	0	I					1.05
9.417	0.79	0.20	0.212	0	I					1.06
9.500	0.80	0.20	0.216	0	I					1.08
9.583	0.82	0.20	0.220	0	I					1.10
9.667	0.83	0.20	0.224	0	I					1.12
9.750	0.84	0.20	0.229	0	I					1.14
9.833	0.86	0.20	0.233	0	I					1.16
9.917	0.87	0.20	0.238	0	I					1.18

10.000	0.88	0.20	0.243	0		I		1.20
10.083	0.73	0.20	0.247	0		I		1.21
10.167	0.62	0.20	0.250	0	I			1.23
10.250	0.60	0.20	0.253	0	I			1.24
10.333	0.60	0.20	0.256	0	I			1.25
10.417	0.60	0.20	0.258	0	I			1.27
10.500	0.60	0.20	0.261	0	I			1.28
10.583	0.70	0.20	0.264	0		I		1.29
10.667	0.78	0.20	0.268	0		I		1.31
10.750	0.79	0.20	0.272	0		I		1.32
10.833	0.80	0.20	0.276	0		I		1.34
10.917	0.80	0.20	0.280	0		I		1.36
11.000	0.80	0.20	0.285	0		I		1.38
11.083	0.78	0.20	0.289	0		I		1.39
11.167	0.76	0.20	0.293	0		I		1.41
11.250	0.76	0.20	0.296	0		I		1.43
11.333	0.76	0.20	0.300	0		I		1.45
11.417	0.76	0.20	0.304	0		I		1.46
11.500	0.76	0.20	0.308	0		I		1.48
11.583	0.72	0.20	0.312	0		I		1.49
11.667	0.68	0.20	0.315	0		I		1.51
11.750	0.68	0.20	0.319	0		I		1.52
11.833	0.70	0.20	0.322	0		I		1.54
11.917	0.71	0.20	0.325	0		I		1.55
12.000	0.72	0.20	0.329	0		I		1.56
12.083	0.86	0.20	0.333	0		I		1.58
12.167	0.97	0.20	0.338	0		I		1.60
12.250	0.99	0.20	0.343	0		I		1.62
12.333	1.02	0.20	0.349	0		I		1.64
12.417	1.03	0.20	0.355	0		I		1.66
12.500	1.03	0.20	0.360	0		I		1.69
12.583	1.08	0.20	0.366	0		I		1.71
12.667	1.11	0.20	0.373	0		I		1.73
12.750	1.11	0.20	0.379	0		I		1.76
12.833	1.14	0.20	0.385	0		I		1.78
12.917	1.15	0.20	0.392	0		I		1.81
13.000	1.15	0.20	0.398	0		I		1.84
13.083	1.26	0.20	0.405	0		I		1.86
13.167	1.34	0.20	0.413	0		I		1.89
13.250	1.35	0.20	0.421	0		I		1.92
13.333	1.35	0.20	0.429	0		I		1.96
13.417	1.35	0.20	0.437	0		I		1.99
13.500	1.35	0.20	0.445	0		I		2.02
13.583	1.13	0.20	0.452	0		I		2.04
13.667	0.95	0.20	0.458	0		I		2.06
13.750	0.92	0.20	0.463	0		I		2.08
13.833	0.92	0.20	0.468	0		I		2.10
13.917	0.92	0.20	0.473	0		I		2.12
14.000	0.92	0.20	0.478	0		I		2.13
14.083	1.00	0.20	0.483	0		I		2.15

14.167	1.06	0.20	0.489	0			I	2.17
14.250	1.07	0.20	0.495	0			I	2.20
14.333	1.05	0.20	0.501	0			I	2.22
14.417	1.04	0.20	0.506	0			I	2.24
14.500	1.04	0.20	0.512	0			I	2.26
14.583	1.04	0.20	0.518	0			I	2.28
14.667	1.04	0.20	0.524	0			I	2.30
14.750	1.04	0.20	0.530	0			I	2.32
14.833	1.01	0.20	0.535	0			I	2.34
14.917	1.00	0.20	0.541	0			I	2.36
15.000	1.00	0.20	0.546	0			I	2.38
15.083	0.98	0.20	0.552	0			I	2.40
15.167	0.96	0.20	0.557	0			I	2.42
15.250	0.96	0.20	0.562	0			I	2.44
15.333	0.94	0.20	0.568	0			I	2.46
15.417	0.92	0.20	0.573	0			I	2.47
15.500	0.92	0.20	0.578	0			I	2.49
15.583	0.83	0.20	0.582	0			I	2.51
15.667	0.77	0.20	0.586	0			I	2.52
15.750	0.76	0.20	0.590	0			I	2.53
15.833	0.76	0.20	0.594	0			I	2.55
15.917	0.76	0.20	0.598	0			I	2.56
16.000	0.76	0.20	0.602	0			I	2.57
16.083	0.45	0.20	0.605	0	I			2.58
16.167	0.21	0.20	0.606	0I				2.58
16.250	0.17	0.20	0.606	0				2.58
16.333	0.16	0.20	0.605	IO				2.58
16.417	0.16	0.20	0.605	IO				2.58
16.500	0.16	0.20	0.605	IO				2.58
16.583	0.14	0.20	0.605	IO				2.58
16.667	0.12	0.20	0.604	I 0				2.58
16.750	0.12	0.20	0.604	I 0				2.58
16.833	0.12	0.20	0.603	I 0				2.58
16.917	0.12	0.20	0.603	I 0				2.57
17.000	0.12	0.20	0.602	I 0				2.57
17.083	0.16	0.20	0.602	IO				2.57
17.167	0.19	0.20	0.602	0				2.57
17.250	0.20	0.20	0.601	0				2.57
17.333	0.20	0.20	0.602	0				2.57
17.417	0.20	0.20	0.602	0				2.57
17.500	0.20	0.20	0.602	0				2.57
17.583	0.20	0.20	0.602	0				2.57
17.667	0.20	0.20	0.602	0				2.57
17.750	0.20	0.20	0.602	0				2.57
17.833	0.18	0.20	0.602	0				2.57
17.917	0.16	0.20	0.601	IO				2.57
18.000	0.16	0.20	0.601	IO				2.57
18.083	0.16	0.20	0.601	IO				2.57
18.167	0.16	0.20	0.601	IO				2.57
18.250	0.16	0.20	0.600	IO				2.57

18.333	0.16	0.20	0.600	IO					2.57
18.417	0.16	0.20	0.600	IO					2.57
18.500	0.16	0.20	0.600	IO					2.56
18.583	0.14	0.20	0.599	IO					2.56
18.667	0.12	0.20	0.599	I O					2.56
18.750	0.12	0.20	0.598	I O					2.56
18.833	0.10	0.20	0.598	I O					2.56
18.917	0.08	0.20	0.597	I O					2.56
19.000	0.08	0.20	0.596	I O					2.55
19.083	0.10	0.20	0.595	I O					2.55
19.167	0.12	0.20	0.595	I O					2.55
19.250	0.12	0.20	0.594	I O					2.55
19.333	0.14	0.20	0.594	IO					2.55
19.417	0.16	0.20	0.594	IO					2.54
19.500	0.16	0.20	0.593	IO					2.54
19.583	0.14	0.20	0.593	IO					2.54
19.667	0.12	0.20	0.592	I O					2.54
19.750	0.12	0.20	0.592	I O					2.54
19.833	0.10	0.20	0.591	I O					2.54
19.917	0.08	0.20	0.591	I O					2.53
20.000	0.08	0.20	0.590	I O					2.53
20.083	0.10	0.20	0.589	I O					2.53
20.167	0.12	0.20	0.589	I O					2.53
20.250	0.12	0.20	0.588	I O					2.53
20.333	0.12	0.20	0.587	I O					2.52
20.417	0.12	0.20	0.587	I O					2.52
20.500	0.12	0.20	0.586	I O					2.52
20.583	0.12	0.20	0.586	I O					2.52
20.667	0.12	0.20	0.585	I O					2.52
20.750	0.12	0.20	0.585	I O					2.52
20.833	0.10	0.20	0.584	I O					2.51
20.917	0.08	0.20	0.583	I O					2.51
21.000	0.08	0.20	0.583	I O					2.51
21.083	0.10	0.20	0.582	I O					2.51
21.167	0.12	0.20	0.581	I O					2.50
21.250	0.12	0.20	0.581	I O					2.50
21.333	0.10	0.20	0.580	I O					2.50
21.417	0.08	0.20	0.579	I O					2.50
21.500	0.08	0.20	0.579	I O					2.50
21.583	0.10	0.20	0.578	I O					2.49
21.667	0.12	0.20	0.577	I O					2.49
21.750	0.12	0.20	0.577	I O					2.49
21.833	0.10	0.20	0.576	I O					2.49
21.917	0.08	0.20	0.575	I O					2.48
22.000	0.08	0.20	0.575	I O					2.48
22.083	0.10	0.20	0.574	I O					2.48
22.167	0.12	0.20	0.573	I O					2.48
22.250	0.12	0.20	0.573	I O					2.47
22.333	0.10	0.20	0.572	I O					2.47
22.417	0.08	0.20	0.571	I O					2.47

22.500	0.08	0.20	0.571	I	0						2.47
22.583	0.08	0.20	0.570	I	0						2.46
22.667	0.08	0.20	0.569	I	0						2.46
22.750	0.08	0.20	0.568	I	0						2.46
22.833	0.08	0.20	0.567	I	0						2.46
22.917	0.08	0.20	0.567	I	0						2.45
23.000	0.08	0.20	0.566	I	0						2.45
23.083	0.08	0.20	0.565	I	0						2.45
23.167	0.08	0.20	0.564	I	0						2.44
23.250	0.08	0.20	0.563	I	0						2.44
23.333	0.08	0.20	0.563	I	0						2.44
23.417	0.08	0.20	0.562	I	0						2.44
23.500	0.08	0.20	0.561	I	0						2.43
23.583	0.08	0.20	0.560	I	0						2.43
23.667	0.08	0.20	0.559	I	0						2.43
23.750	0.08	0.20	0.559	I	0						2.42
23.833	0.08	0.20	0.558	I	0						2.42
23.917	0.08	0.20	0.557	I	0						2.42
24.000	0.08	0.20	0.556	I	0						2.42
24.083	0.04	0.20	0.555	I	0						2.41
24.167	0.01	0.20	0.554	I	0						2.41
24.250	0.00	0.20	0.553	I	0						2.40
24.333	0.00	0.20	0.551	I	0						2.40
24.417	0.00	0.20	0.550	I	0						2.39
24.500	0.00	0.20	0.549	I	0						2.39
24.583	0.00	0.20	0.547	I	0						2.38
24.667	0.00	0.20	0.546	I	0						2.38
24.750	0.00	0.20	0.545	I	0						2.37
24.833	0.00	0.20	0.543	I	0						2.37
24.917	0.00	0.20	0.542	I	0						2.36
25.000	0.00	0.20	0.541	I	0						2.36
25.083	0.00	0.20	0.539	I	0						2.35
25.167	0.00	0.20	0.538	I	0						2.35
25.250	0.00	0.20	0.537	I	0						2.34
25.333	0.00	0.20	0.535	I	0						2.34
25.417	0.00	0.20	0.534	I	0						2.34
25.500	0.00	0.20	0.532	I	0						2.33
25.583	0.00	0.20	0.531	I	0						2.33
25.667	0.00	0.20	0.530	I	0						2.32
25.750	0.00	0.20	0.528	I	0						2.32
25.833	0.00	0.20	0.527	I	0						2.31
25.917	0.00	0.20	0.526	I	0						2.31
26.000	0.00	0.20	0.524	I	0						2.30
26.083	0.00	0.20	0.523	I	0						2.30
26.167	0.00	0.20	0.522	I	0						2.29
26.250	0.00	0.20	0.520	I	0						2.29
26.333	0.00	0.20	0.519	I	0						2.28
26.417	0.00	0.20	0.518	I	0						2.28
26.500	0.00	0.20	0.516	I	0						2.27
26.583	0.00	0.20	0.515	I	0						2.27

26.667	0.00	0.20	0.514	I	0					2.26
26.750	0.00	0.20	0.512	I	0					2.26
26.833	0.00	0.20	0.511	I	0					2.25
26.917	0.00	0.20	0.509	I	0					2.25
27.000	0.00	0.20	0.508	I	0					2.24
27.083	0.00	0.20	0.507	I	0					2.24
27.167	0.00	0.20	0.505	I	0					2.23
27.250	0.00	0.20	0.504	I	0					2.23
27.333	0.00	0.20	0.503	I	0					2.22
27.417	0.00	0.20	0.501	I	0					2.22
27.500	0.00	0.20	0.500	I	0					2.21
27.583	0.00	0.20	0.499	I	0					2.21
27.667	0.00	0.20	0.497	I	0					2.20
27.750	0.00	0.20	0.496	I	0					2.20
27.833	0.00	0.20	0.495	I	0					2.20
27.917	0.00	0.20	0.493	I	0					2.19
28.000	0.00	0.20	0.492	I	0					2.19
28.083	0.00	0.20	0.491	I	0					2.18
28.167	0.00	0.20	0.489	I	0					2.18
28.250	0.00	0.20	0.488	I	0					2.17
28.333	0.00	0.20	0.486	I	0					2.17
28.417	0.00	0.20	0.485	I	0					2.16
28.500	0.00	0.20	0.484	I	0					2.16
28.583	0.00	0.20	0.482	I	0					2.15
28.667	0.00	0.20	0.481	I	0					2.15
28.750	0.00	0.20	0.480	I	0					2.14
28.833	0.00	0.20	0.478	I	0					2.14
28.917	0.00	0.20	0.477	I	0					2.13
29.000	0.00	0.20	0.476	I	0					2.13
29.083	0.00	0.20	0.474	I	0					2.12
29.167	0.00	0.20	0.473	I	0					2.12
29.250	0.00	0.20	0.472	I	0					2.11
29.333	0.00	0.20	0.470	I	0					2.11
29.417	0.00	0.20	0.469	I	0					2.10
29.500	0.00	0.20	0.468	I	0					2.10
29.583	0.00	0.20	0.466	I	0					2.09
29.667	0.00	0.20	0.465	I	0					2.09
29.750	0.00	0.20	0.464	I	0					2.08
29.833	0.00	0.20	0.462	I	0					2.08
29.917	0.00	0.20	0.461	I	0					2.07
30.000	0.00	0.20	0.459	I	0					2.07
30.083	0.00	0.20	0.458	I	0					2.06
30.167	0.00	0.20	0.457	I	0					2.06
30.250	0.00	0.20	0.455	I	0					2.05
30.333	0.00	0.20	0.454	I	0					2.05
30.417	0.00	0.20	0.453	I	0					2.05
30.500	0.00	0.20	0.451	I	0					2.04
30.583	0.00	0.20	0.450	I	0					2.04
30.667	0.00	0.20	0.449	I	0					2.03
30.750	0.00	0.20	0.447	I	0					2.03

30.833	0.00	0.20	0.446	I	0					2.02
30.917	0.00	0.20	0.445	I	0					2.02
31.000	0.00	0.20	0.443	I	0					2.01
31.083	0.00	0.20	0.442	I	0					2.01
31.167	0.00	0.20	0.441	I	0					2.00
31.250	0.00	0.20	0.439	I	0					2.00
31.333	0.00	0.20	0.438	I	0					1.99
31.417	0.00	0.20	0.436	I	0					1.99
31.500	0.00	0.20	0.435	I	0					1.98
31.583	0.00	0.20	0.434	I	0					1.98
31.667	0.00	0.20	0.432	I	0					1.97
31.750	0.00	0.20	0.431	I	0					1.96
31.833	0.00	0.20	0.430	I	0					1.96
31.917	0.00	0.20	0.428	I	0					1.95
32.000	0.00	0.20	0.427	I	0					1.95
32.083	0.00	0.20	0.426	I	0					1.94
32.167	0.00	0.20	0.424	I	0					1.94
32.250	0.00	0.20	0.423	I	0					1.93
32.333	0.00	0.20	0.422	I	0					1.93
32.417	0.00	0.20	0.420	I	0					1.92
32.500	0.00	0.20	0.419	I	0					1.92
32.583	0.00	0.20	0.418	I	0					1.91
32.667	0.00	0.20	0.416	I	0					1.91
32.750	0.00	0.20	0.415	I	0					1.90
32.833	0.00	0.20	0.413	I	0					1.90
32.917	0.00	0.20	0.412	I	0					1.89
33.000	0.00	0.20	0.411	I	0					1.88
33.083	0.00	0.20	0.409	I	0					1.88
33.167	0.00	0.20	0.408	I	0					1.87
33.250	0.00	0.20	0.407	I	0					1.87
33.333	0.00	0.20	0.405	I	0					1.86
33.417	0.00	0.20	0.404	I	0					1.86
33.500	0.00	0.20	0.403	I	0					1.85
33.583	0.00	0.20	0.401	I	0					1.85
33.667	0.00	0.20	0.400	I	0					1.84
33.750	0.00	0.20	0.399	I	0					1.84
33.833	0.00	0.20	0.397	I	0					1.83
33.917	0.00	0.20	0.396	I	0					1.83
34.000	0.00	0.20	0.395	I	0					1.82
34.083	0.00	0.20	0.393	I	0					1.82
34.167	0.00	0.20	0.392	I	0					1.81
34.250	0.00	0.20	0.390	I	0					1.81
34.333	0.00	0.20	0.389	I	0					1.80
34.417	0.00	0.20	0.388	I	0					1.79
34.500	0.00	0.20	0.386	I	0					1.79
34.583	0.00	0.20	0.385	I	0					1.78
34.667	0.00	0.20	0.384	I	0					1.78
34.750	0.00	0.20	0.382	I	0					1.77
34.833	0.00	0.20	0.381	I	0					1.77
34.917	0.00	0.20	0.380	I	0					1.76

35.000	0.00	0.20	0.378	I	0					1.76
35.083	0.00	0.20	0.377	I	0					1.75
35.167	0.00	0.20	0.376	I	0					1.75
35.250	0.00	0.20	0.374	I	0					1.74
35.333	0.00	0.20	0.373	I	0					1.74
35.417	0.00	0.20	0.372	I	0					1.73
35.500	0.00	0.20	0.370	I	0					1.73
35.583	0.00	0.20	0.369	I	0					1.72
35.667	0.00	0.20	0.367	I	0					1.71
35.750	0.00	0.20	0.366	I	0					1.71
35.833	0.00	0.20	0.365	I	0					1.70
35.917	0.00	0.20	0.363	I	0					1.70
36.000	0.00	0.20	0.362	I	0					1.69
36.083	0.00	0.20	0.361	I	0					1.69
36.167	0.00	0.20	0.359	I	0					1.68
36.250	0.00	0.20	0.358	I	0					1.68
36.333	0.00	0.20	0.357	I	0					1.67
36.417	0.00	0.20	0.355	I	0					1.67
36.500	0.00	0.20	0.354	I	0					1.66
36.583	0.00	0.20	0.353	I	0					1.66
36.667	0.00	0.20	0.351	I	0					1.65
36.750	0.00	0.20	0.350	I	0					1.65
36.833	0.00	0.20	0.349	I	0					1.64
36.917	0.00	0.20	0.347	I	0					1.63
37.000	0.00	0.20	0.346	I	0					1.63
37.083	0.00	0.20	0.345	I	0					1.62
37.167	0.00	0.20	0.343	I	0					1.62
37.250	0.00	0.20	0.342	I	0					1.61
37.333	0.00	0.20	0.340	I	0					1.61
37.417	0.00	0.20	0.339	I	0					1.60
37.500	0.00	0.20	0.338	I	0					1.60
37.583	0.00	0.20	0.336	I	0					1.59
37.667	0.00	0.20	0.335	I	0					1.59
37.750	0.00	0.20	0.334	I	0					1.58
37.833	0.00	0.20	0.332	I	0					1.58
37.917	0.00	0.20	0.331	I	0					1.57
38.000	0.00	0.20	0.330	I	0					1.57
38.083	0.00	0.20	0.328	I	0					1.56
38.167	0.00	0.20	0.327	I	0					1.55
38.250	0.00	0.20	0.326	I	0					1.55
38.333	0.00	0.20	0.324	I	0					1.54
38.417	0.00	0.20	0.323	I	0					1.54
38.500	0.00	0.20	0.322	I	0					1.53
38.583	0.00	0.20	0.320	I	0					1.53
38.667	0.00	0.20	0.319	I	0					1.52
38.750	0.00	0.20	0.317	I	0					1.52
38.833	0.00	0.20	0.316	I	0					1.51
38.917	0.00	0.20	0.315	I	0					1.51
39.000	0.00	0.20	0.313	I	0					1.50
39.083	0.00	0.20	0.312	I	0					1.50

39.167	0.00	0.20	0.311	I	0					1.49
39.250	0.00	0.20	0.309	I	0					1.48
39.333	0.00	0.20	0.308	I	0					1.48
39.417	0.00	0.20	0.307	I	0					1.47
39.500	0.00	0.20	0.305	I	0					1.47
39.583	0.00	0.20	0.304	I	0					1.46
39.667	0.00	0.20	0.303	I	0					1.46
39.750	0.00	0.20	0.301	I	0					1.45
39.833	0.00	0.20	0.300	I	0					1.44
39.917	0.00	0.20	0.299	I	0					1.44
40.000	0.00	0.20	0.297	I	0					1.43
40.083	0.00	0.20	0.296	I	0					1.43
40.167	0.00	0.20	0.294	I	0					1.42
40.250	0.00	0.20	0.293	I	0					1.41
40.333	0.00	0.20	0.292	I	0					1.41
40.417	0.00	0.20	0.290	I	0					1.40
40.500	0.00	0.20	0.289	I	0					1.40
40.583	0.00	0.20	0.288	I	0					1.39
40.667	0.00	0.20	0.286	I	0					1.39
40.750	0.00	0.20	0.285	I	0					1.38
40.833	0.00	0.20	0.284	I	0					1.37
40.917	0.00	0.20	0.282	I	0					1.37
41.000	0.00	0.20	0.281	I	0					1.36
41.083	0.00	0.20	0.280	I	0					1.36
41.167	0.00	0.20	0.278	I	0					1.35
41.250	0.00	0.20	0.277	I	0					1.34
41.333	0.00	0.20	0.276	I	0					1.34
41.417	0.00	0.20	0.274	I	0					1.33
41.500	0.00	0.20	0.273	I	0					1.33
41.583	0.00	0.20	0.271	I	0					1.32
41.667	0.00	0.20	0.270	I	0					1.32
41.750	0.00	0.20	0.269	I	0					1.31
41.833	0.00	0.20	0.267	I	0					1.30
41.917	0.00	0.20	0.266	I	0					1.30
42.000	0.00	0.20	0.265	I	0					1.29
42.083	0.00	0.20	0.263	I	0					1.29
42.167	0.00	0.20	0.262	I	0					1.28
42.250	0.00	0.20	0.261	I	0					1.27
42.333	0.00	0.20	0.259	I	0					1.27
42.417	0.00	0.20	0.258	I	0					1.26
42.500	0.00	0.20	0.257	I	0					1.26
42.583	0.00	0.20	0.255	I	0					1.25
42.667	0.00	0.20	0.254	I	0					1.25
42.750	0.00	0.20	0.253	I	0					1.24
42.833	0.00	0.20	0.251	I	0					1.23
42.917	0.00	0.20	0.250	I	0					1.23
43.000	0.00	0.20	0.248	I	0					1.22
43.083	0.00	0.20	0.247	I	0					1.22
43.167	0.00	0.20	0.246	I	0					1.21
43.250	0.00	0.20	0.244	I	0					1.20

43.333	0.00	0.20	0.243	I	0					1.20
43.417	0.00	0.20	0.242	I	0					1.19
43.500	0.00	0.20	0.240	I	0					1.19
43.583	0.00	0.20	0.239	I	0					1.18
43.667	0.00	0.20	0.238	I	0					1.18
43.750	0.00	0.20	0.236	I	0					1.17
43.833	0.00	0.20	0.235	I	0					1.16
43.917	0.00	0.20	0.234	I	0					1.16
44.000	0.00	0.20	0.232	I	0					1.15
44.083	0.00	0.20	0.231	I	0					1.15
44.167	0.00	0.20	0.230	I	0					1.14
44.250	0.00	0.20	0.228	I	0					1.13
44.333	0.00	0.20	0.227	I	0					1.13
44.417	0.00	0.20	0.226	I	0					1.12
44.500	0.00	0.20	0.224	I	0					1.12
44.583	0.00	0.20	0.223	I	0					1.11
44.667	0.00	0.20	0.221	I	0					1.11
44.750	0.00	0.20	0.220	I	0					1.10
44.833	0.00	0.20	0.219	I	0					1.09
44.917	0.00	0.20	0.217	I	0					1.09
45.000	0.00	0.20	0.216	I	0					1.08
45.083	0.00	0.20	0.215	I	0					1.08
45.167	0.00	0.20	0.213	I	0					1.07
45.250	0.00	0.20	0.212	I	0					1.06
45.333	0.00	0.20	0.211	I	0					1.06
45.417	0.00	0.20	0.209	I	0					1.05
45.500	0.00	0.20	0.208	I	0					1.05
45.583	0.00	0.20	0.207	I	0					1.04
45.667	0.00	0.20	0.205	I	0					1.04
45.750	0.00	0.20	0.204	I	0					1.03
45.833	0.00	0.20	0.203	I	0					1.02
45.917	0.00	0.20	0.201	I	0					1.02
46.000	0.00	0.20	0.200	I	0					1.01
46.083	0.00	0.20	0.198	I	0					1.01
46.167	0.00	0.20	0.197	I	0					1.00
46.250	0.00	0.19	0.196	I	0					0.99
46.333	0.00	0.19	0.194	I	0					0.99
46.417	0.00	0.19	0.193	I	0					0.98
46.500	0.00	0.19	0.192	I	0					0.98
46.583	0.00	0.18	0.191	I	0					0.97
46.667	0.00	0.18	0.189	I	0					0.96
46.750	0.00	0.18	0.188	I	0					0.96
46.833	0.00	0.18	0.187	I	0					0.95
46.917	0.00	0.17	0.186	I	0					0.95
47.000	0.00	0.17	0.184	I	0					0.94
47.083	0.00	0.17	0.183	I	0					0.93
47.167	0.00	0.17	0.182	I	0					0.93
47.250	0.00	0.17	0.181	I	0					0.92
47.333	0.00	0.16	0.180	I	0					0.92
47.417	0.00	0.16	0.179	I	0					0.91

47.500	0.00	0.16	0.178	I	0					0.91
47.583	0.00	0.16	0.176	I	0					0.90
47.667	0.00	0.16	0.175	I	0					0.90
47.750	0.00	0.15	0.174	I	0					0.89
47.833	0.00	0.15	0.173	I	0					0.89
47.917	0.00	0.15	0.172	I	0					0.88
48.000	0.00	0.15	0.171	I	0					0.88
48.083	0.00	0.15	0.170	I	0					0.87
48.167	0.00	0.14	0.169	I	0					0.87
48.250	0.00	0.14	0.168	I	0					0.86
48.333	0.00	0.14	0.167	I	0					0.86
48.417	0.00	0.14	0.166	I	0					0.85
48.500	0.00	0.14	0.165	I	0					0.85
48.583	0.00	0.13	0.164	I	0					0.84
48.667	0.00	0.13	0.163	I	0					0.84
48.750	0.00	0.13	0.163	I	0					0.83
48.833	0.00	0.13	0.162	I	0					0.83
48.917	0.00	0.13	0.161	I	0					0.83
49.000	0.00	0.13	0.160	I	0					0.82
49.083	0.00	0.12	0.159	I	0					0.82
49.167	0.00	0.12	0.158	I	0					0.81
49.250	0.00	0.12	0.157	I	0					0.81
49.333	0.00	0.12	0.157	I	0					0.81
49.417	0.00	0.12	0.156	I	0					0.80
49.500	0.00	0.12	0.155	I	0					0.80
49.583	0.00	0.12	0.154	I	0					0.79
49.667	0.00	0.11	0.153	I	0					0.79
49.750	0.00	0.11	0.153	I	0					0.79
49.833	0.00	0.11	0.152	I	0					0.78
49.917	0.00	0.11	0.151	I	0					0.78
50.000	0.00	0.11	0.150	I	0					0.78
50.083	0.00	0.11	0.150	I	0					0.77
50.167	0.00	0.11	0.149	I	0					0.77
50.250	0.00	0.10	0.148	I	0					0.76
50.333	0.00	0.10	0.147	I	0					0.76
50.417	0.00	0.10	0.147	I	0					0.76
50.500	0.00	0.10	0.146	I	0					0.75
50.583	0.00	0.10	0.145	I	0					0.75
50.667	0.00	0.10	0.145	I	0					0.75
50.750	0.00	0.10	0.144	I	0					0.74
50.833	0.00	0.09	0.143	I	0					0.74
50.917	0.00	0.09	0.143	I	0					0.74
51.000	0.00	0.09	0.142	I	0					0.74
51.083	0.00	0.09	0.141	I	0					0.73
51.167	0.00	0.09	0.141	I	0					0.73
51.250	0.00	0.09	0.140	I	0					0.73
51.333	0.00	0.09	0.139	I	0					0.72
51.417	0.00	0.09	0.139	I	0					0.72
51.500	0.00	0.09	0.138	I	0					0.72
51.583	0.00	0.08	0.138	IO						0.71

51.667	0.00	0.08	0.137	IO					0.71
51.750	0.00	0.08	0.137	IO					0.71
51.833	0.00	0.08	0.136	IO					0.71
51.917	0.00	0.08	0.135	IO					0.70
52.000	0.00	0.08	0.135	IO					0.70
52.083	0.00	0.08	0.134	IO					0.70
52.167	0.00	0.08	0.134	IO					0.70
52.250	0.00	0.08	0.133	IO					0.69
52.333	0.00	0.08	0.133	IO					0.69
52.417	0.00	0.07	0.132	IO					0.69
52.500	0.00	0.07	0.132	IO					0.69
52.583	0.00	0.07	0.131	IO					0.68
52.667	0.00	0.07	0.131	IO					0.68
52.750	0.00	0.07	0.130	IO					0.68
52.833	0.00	0.07	0.130	IO					0.68
52.917	0.00	0.07	0.129	IO					0.67
53.000	0.00	0.07	0.129	IO					0.67
53.083	0.00	0.07	0.128	IO					0.67
53.167	0.00	0.07	0.128	IO					0.67
53.250	0.00	0.07	0.127	IO					0.67
53.333	0.00	0.06	0.127	IO					0.66
53.417	0.00	0.06	0.127	IO					0.66
53.500	0.00	0.06	0.126	IO					0.66
53.583	0.00	0.06	0.126	IO					0.66
53.667	0.00	0.06	0.125	IO					0.66
53.750	0.00	0.06	0.125	IO					0.65
53.833	0.00	0.06	0.124	IO					0.65
53.917	0.00	0.06	0.124	IO					0.65
54.000	0.00	0.06	0.124	IO					0.65
54.083	0.00	0.06	0.123	IO					0.65
54.167	0.00	0.06	0.123	IO					0.64
54.250	0.00	0.06	0.122	IO					0.64
54.333	0.00	0.05	0.122	IO					0.64
54.417	0.00	0.05	0.122	IO					0.64
54.500	0.00	0.05	0.121	IO					0.64
54.583	0.00	0.05	0.121	IO					0.63
54.667	0.00	0.05	0.121	IO					0.63
54.750	0.00	0.05	0.120	IO					0.63
54.833	0.00	0.05	0.120	IO					0.63
54.917	0.00	0.05	0.120	IO					0.63
55.000	0.00	0.05	0.119	IO					0.63
55.083	0.00	0.05	0.119	IO					0.62
55.167	0.00	0.05	0.119	IO					0.62
55.250	0.00	0.05	0.118	IO					0.62
55.333	0.00	0.05	0.118	IO					0.62
55.417	0.00	0.05	0.118	IO					0.62
55.500	0.00	0.05	0.117	IO					0.62
55.583	0.00	0.05	0.117	IO					0.62
55.667	0.00	0.04	0.117	IO					0.61
55.750	0.00	0.04	0.116	IO					0.61

55.833	0.00	0.04	0.116	IO					0.61
55.917	0.00	0.04	0.116	IO					0.61
56.000	0.00	0.04	0.115	IO					0.61
56.083	0.00	0.04	0.115	0					0.61
56.167	0.00	0.04	0.115	0					0.61
56.250	0.00	0.04	0.115	0					0.60
56.333	0.00	0.04	0.114	0					0.60
56.417	0.00	0.04	0.114	0					0.60
56.500	0.00	0.04	0.114	0					0.60
56.583	0.00	0.04	0.113	0					0.60
56.667	0.00	0.04	0.113	0					0.60
56.750	0.00	0.04	0.113	0					0.60
56.833	0.00	0.04	0.113	0					0.59
56.917	0.00	0.04	0.112	0					0.59
57.000	0.00	0.04	0.112	0					0.59
57.083	0.00	0.04	0.112	0					0.59
57.167	0.00	0.04	0.112	0					0.59
57.250	0.00	0.03	0.111	0					0.59
57.333	0.00	0.03	0.111	0					0.59
57.417	0.00	0.03	0.111	0					0.59
57.500	0.00	0.03	0.111	0					0.59
57.583	0.00	0.03	0.111	0					0.58
57.667	0.00	0.03	0.110	0					0.58
57.750	0.00	0.03	0.110	0					0.58
57.833	0.00	0.03	0.110	0					0.58
57.917	0.00	0.03	0.110	0					0.58
58.000	0.00	0.03	0.109	0					0.58
58.083	0.00	0.03	0.109	0					0.58
58.167	0.00	0.03	0.109	0					0.58
58.250	0.00	0.03	0.109	0					0.58
58.333	0.00	0.03	0.109	0					0.57
58.417	0.00	0.03	0.108	0					0.57
58.500	0.00	0.03	0.108	0					0.57
58.583	0.00	0.03	0.108	0					0.57
58.667	0.00	0.03	0.108	0					0.57
58.750	0.00	0.03	0.108	0					0.57
58.833	0.00	0.03	0.107	0					0.57
58.917	0.00	0.03	0.107	0					0.57
59.000	0.00	0.03	0.107	0					0.57
59.083	0.00	0.03	0.107	0					0.57
59.167	0.00	0.03	0.107	0					0.57
59.250	0.00	0.03	0.107	0					0.56
59.333	0.00	0.03	0.106	0					0.56
59.417	0.00	0.02	0.106	0					0.56
59.500	0.00	0.02	0.106	0					0.56
59.583	0.00	0.02	0.106	0					0.56
59.667	0.00	0.02	0.106	0					0.56
59.750	0.00	0.02	0.106	0					0.56
59.833	0.00	0.02	0.105	0					0.56
59.917	0.00	0.02	0.105	0					0.56

60.000	0.00	0.02	0.105	0					0.56
60.083	0.00	0.02	0.105	0					0.56
60.167	0.00	0.02	0.105	0					0.56
60.250	0.00	0.02	0.105	0					0.56
60.333	0.00	0.02	0.104	0					0.55
60.417	0.00	0.02	0.104	0					0.55
60.500	0.00	0.02	0.104	0					0.55
60.583	0.00	0.02	0.104	0					0.55
60.667	0.00	0.02	0.104	0					0.55
60.750	0.00	0.02	0.104	0					0.55
60.833	0.00	0.02	0.104	0					0.55
60.917	0.00	0.02	0.103	0					0.55
61.000	0.00	0.02	0.103	0					0.55
61.083	0.00	0.02	0.103	0					0.55
61.167	0.00	0.02	0.103	0					0.55
61.250	0.00	0.02	0.103	0					0.55
61.333	0.00	0.02	0.103	0					0.55
61.417	0.00	0.02	0.103	0					0.55
61.500	0.00	0.02	0.103	0					0.55
61.583	0.00	0.02	0.102	0					0.55
61.667	0.00	0.02	0.102	0					0.54
61.750	0.00	0.02	0.102	0					0.54
61.833	0.00	0.02	0.102	0					0.54
61.917	0.00	0.02	0.102	0					0.54
62.000	0.00	0.02	0.102	0					0.54
62.083	0.00	0.02	0.102	0					0.54
62.167	0.00	0.02	0.102	0					0.54
62.250	0.00	0.02	0.101	0					0.54
62.333	0.00	0.02	0.101	0					0.54
62.417	0.00	0.02	0.101	0					0.54
62.500	0.00	0.02	0.101	0					0.54
62.583	0.00	0.02	0.101	0					0.54
62.667	0.00	0.01	0.101	0					0.54
62.750	0.00	0.01	0.101	0					0.54
62.833	0.00	0.01	0.101	0					0.54
62.917	0.00	0.01	0.101	0					0.54
63.000	0.00	0.01	0.101	0					0.54
63.083	0.00	0.01	0.100	0					0.54
63.167	0.00	0.01	0.100	0					0.54
63.250	0.00	0.01	0.100	0					0.53
63.333	0.00	0.01	0.100	0					0.53
63.417	0.00	0.01	0.100	0					0.53
63.500	0.00	0.01	0.100	0					0.53
63.583	0.00	0.01	0.100	0					0.53
63.667	0.00	0.01	0.100	0					0.53
63.750	0.00	0.01	0.100	0					0.53
63.833	0.00	0.01	0.100	0					0.53
63.917	0.00	0.01	0.100	0					0.53
64.000	0.00	0.01	0.099	0					0.53
64.083	0.00	0.01	0.099	0					0.53

64.167	0.00	0.01	0.099	0					0.53
64.250	0.00	0.01	0.099	0					0.53
64.333	0.00	0.01	0.099	0					0.53
64.417	0.00	0.01	0.099	0					0.53
64.500	0.00	0.01	0.099	0					0.53
64.583	0.00	0.01	0.099	0					0.53
64.667	0.00	0.01	0.099	0					0.53
64.750	0.00	0.01	0.099	0					0.53
64.833	0.00	0.01	0.099	0					0.53
64.917	0.00	0.01	0.099	0					0.53
65.000	0.00	0.01	0.099	0					0.53
65.083	0.00	0.01	0.098	0					0.53
65.167	0.00	0.01	0.098	0					0.53
65.250	0.00	0.01	0.098	0					0.53
65.333	0.00	0.01	0.098	0					0.53
65.417	0.00	0.01	0.098	0					0.52
65.500	0.00	0.01	0.098	0					0.52
65.583	0.00	0.01	0.098	0					0.52
65.667	0.00	0.01	0.098	0					0.52
65.750	0.00	0.01	0.098	0					0.52
65.833	0.00	0.01	0.098	0					0.52
65.917	0.00	0.01	0.098	0					0.52
66.000	0.00	0.01	0.098	0					0.52
66.083	0.00	0.01	0.098	0					0.52
66.167	0.00	0.01	0.098	0					0.52
66.250	0.00	0.01	0.098	0					0.52
66.333	0.00	0.01	0.097	0					0.52
66.417	0.00	0.01	0.097	0					0.52
66.500	0.00	0.01	0.097	0					0.52
66.583	0.00	0.01	0.097	0					0.52
66.667	0.00	0.01	0.097	0					0.52
66.750	0.00	0.01	0.097	0					0.52
66.833	0.00	0.01	0.097	0					0.52
66.917	0.00	0.01	0.097	0					0.52
67.000	0.00	0.01	0.097	0					0.52
67.083	0.00	0.01	0.097	0					0.52
67.167	0.00	0.01	0.097	0					0.52
67.250	0.00	0.01	0.097	0					0.52
67.333	0.00	0.01	0.097	0					0.52
67.417	0.00	0.01	0.097	0					0.52
67.500	0.00	0.01	0.097	0					0.52
67.583	0.00	0.01	0.097	0					0.52
67.667	0.00	0.01	0.097	0					0.52
67.750	0.00	0.01	0.097	0					0.52
67.833	0.00	0.01	0.097	0					0.52
67.917	0.00	0.01	0.096	0					0.52
68.000	0.00	0.01	0.096	0					0.52
68.083	0.00	0.01	0.096	0					0.52
68.167	0.00	0.01	0.096	0					0.52
68.250	0.00	0.01	0.096	0					0.52

68.333	0.00	0.01	0.096	0					0.52
68.417	0.00	0.01	0.096	0					0.52
68.500	0.00	0.01	0.096	0					0.52
68.583	0.00	0.01	0.096	0					0.52
68.667	0.00	0.01	0.096	0					0.51
68.750	0.00	0.01	0.096	0					0.51
68.833	0.00	0.01	0.096	0					0.51
68.917	0.00	0.01	0.096	0					0.51
69.000	0.00	0.01	0.096	0					0.51
69.083	0.00	0.01	0.096	0					0.51
69.167	0.00	0.01	0.096	0					0.51
69.250	0.00	0.01	0.096	0					0.51
69.333	0.00	0.01	0.096	0					0.51
69.417	0.00	0.01	0.096	0					0.51
69.500	0.00	0.01	0.096	0					0.51
69.583	0.00	0.01	0.096	0					0.51
69.667	0.00	0.01	0.096	0					0.51
69.750	0.00	0.00	0.096	0					0.51
69.833	0.00	0.00	0.096	0					0.51
69.917	0.00	0.00	0.096	0					0.51
70.000	0.00	0.00	0.096	0					0.51
70.083	0.00	0.00	0.095	0					0.51
70.167	0.00	0.00	0.095	0					0.51
70.250	0.00	0.00	0.095	0					0.51
70.333	0.00	0.00	0.095	0					0.51
70.417	0.00	0.00	0.095	0					0.51
70.500	0.00	0.00	0.095	0					0.51
70.583	0.00	0.00	0.095	0					0.51
70.667	0.00	0.00	0.095	0					0.51
70.750	0.00	0.00	0.095	0					0.51
70.833	0.00	0.00	0.095	0					0.51
70.917	0.00	0.00	0.095	0					0.51
71.000	0.00	0.00	0.095	0					0.51
71.083	0.00	0.00	0.095	0					0.51
71.167	0.00	0.00	0.095	0					0.51
71.250	0.00	0.00	0.095	0					0.51
71.333	0.00	0.00	0.095	0					0.51
71.417	0.00	0.00	0.095	0					0.51
71.500	0.00	0.00	0.095	0					0.51
71.583	0.00	0.00	0.095	0					0.51
71.667	0.00	0.00	0.095	0					0.51
71.750	0.00	0.00	0.095	0					0.51
71.833	0.00	0.00	0.095	0					0.51
71.917	0.00	0.00	0.095	0					0.51
72.000	0.00	0.00	0.095	0					0.51
72.083	0.00	0.00	0.095	0					0.51
72.167	0.00	0.00	0.095	0					0.51
72.250	0.00	0.00	0.095	0					0.51
72.333	0.00	0.00	0.095	0					0.51
72.417	0.00	0.00	0.095	0					0.51

72.500	0.00	0.00	0.095	0					0.51
72.583	0.00	0.00	0.095	0					0.51
72.667	0.00	0.00	0.095	0					0.51
72.750	0.00	0.00	0.095	0					0.51
72.833	0.00	0.00	0.095	0					0.51
72.917	0.00	0.00	0.095	0					0.51
73.000	0.00	0.00	0.095	0					0.51
73.083	0.00	0.00	0.095	0					0.51
73.167	0.00	0.00	0.095	0					0.51
73.250	0.00	0.00	0.095	0					0.51
73.333	0.00	0.00	0.095	0					0.51
73.417	0.00	0.00	0.094	0					0.51
73.500	0.00	0.00	0.094	0					0.51
73.583	0.00	0.00	0.094	0					0.51
73.667	0.00	0.00	0.094	0					0.51
73.750	0.00	0.00	0.094	0					0.51
73.833	0.00	0.00	0.094	0					0.51
73.917	0.00	0.00	0.094	0					0.51
74.000	0.00	0.00	0.094	0					0.51
74.083	0.00	0.00	0.094	0					0.51
74.167	0.00	0.00	0.094	0					0.51
74.250	0.00	0.00	0.094	0					0.51
74.333	0.00	0.00	0.094	0					0.51
74.417	0.00	0.00	0.094	0					0.51
74.500	0.00	0.00	0.094	0					0.51
74.583	0.00	0.00	0.094	0					0.51
74.667	0.00	0.00	0.094	0					0.51
74.750	0.00	0.00	0.094	0					0.51
74.833	0.00	0.00	0.094	0					0.51
74.917	0.00	0.00	0.094	0					0.51
75.000	0.00	0.00	0.094	0					0.51
75.083	0.00	0.00	0.094	0					0.51
75.167	0.00	0.00	0.094	0					0.51
75.250	0.00	0.00	0.094	0					0.51
75.333	0.00	0.00	0.094	0					0.51
75.417	0.00	0.00	0.094	0					0.51
75.500	0.00	0.00	0.094	0					0.51
75.583	0.00	0.00	0.094	0					0.51
75.667	0.00	0.00	0.094	0					0.51
75.750	0.00	0.00	0.094	0					0.50
75.833	0.00	0.00	0.094	0					0.50
75.917	0.00	0.00	0.094	0					0.50
76.000	0.00	0.00	0.094	0					0.50
76.083	0.00	0.00	0.094	0					0.50
76.167	0.00	0.00	0.094	0					0.50
76.250	0.00	0.00	0.094	0					0.50
76.333	0.00	0.00	0.094	0					0.50
76.417	0.00	0.00	0.094	0					0.50
76.500	0.00	0.00	0.094	0					0.50
76.583	0.00	0.00	0.094	0					0.50

76.667	0.00	0.00	0.094	0					0.50
76.750	0.00	0.00	0.094	0					0.50
76.833	0.00	0.00	0.094	0					0.50
76.917	0.00	0.00	0.094	0					0.50
77.000	0.00	0.00	0.094	0					0.50
77.083	0.00	0.00	0.094	0					0.50
77.167	0.00	0.00	0.094	0					0.50
77.250	0.00	0.00	0.094	0					0.50
77.333	0.00	0.00	0.094	0					0.50
77.417	0.00	0.00	0.094	0					0.50
77.500	0.00	0.00	0.094	0					0.50
77.583	0.00	0.00	0.094	0					0.50
77.667	0.00	0.00	0.094	0					0.50
77.750	0.00	0.00	0.094	0					0.50
77.833	0.00	0.00	0.094	0					0.50
77.917	0.00	0.00	0.094	0					0.50
78.000	0.00	0.00	0.094	0					0.50
78.083	0.00	0.00	0.094	0					0.50
78.167	0.00	0.00	0.094	0					0.50
78.250	0.00	0.00	0.094	0					0.50
78.333	0.00	0.00	0.094	0					0.50
78.417	0.00	0.00	0.094	0					0.50
78.500	0.00	0.00	0.094	0					0.50
78.583	0.00	0.00	0.094	0					0.50
78.667	0.00	0.00	0.094	0					0.50
78.750	0.00	0.00	0.094	0					0.50
78.833	0.00	0.00	0.094	0					0.50
78.917	0.00	0.00	0.094	0					0.50
79.000	0.00	0.00	0.094	0					0.50
79.083	0.00	0.00	0.094	0					0.50
79.167	0.00	0.00	0.094	0					0.50
79.250	0.00	0.00	0.094	0					0.50
79.333	0.00	0.00	0.094	0					0.50
79.417	0.00	0.00	0.094	0					0.50
79.500	0.00	0.00	0.094	0					0.50
79.583	0.00	0.00	0.094	0					0.50
79.667	0.00	0.00	0.094	0					0.50
79.750	0.00	0.00	0.094	0					0.50
79.833	0.00	0.00	0.094	0					0.50
79.917	0.00	0.00	0.094	0					0.50
80.000	0.00	0.00	0.094	0					0.50
80.083	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 961

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.729 (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

DMA 1 Proposed 5-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 5YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH15.rte
*****HYDROGRAPH DATA*****
Number of intervals = 15
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 9.148 (CFS)
Total volume = 0.305 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 15

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	2.3	4.57	6.86	9.15	Depth (Ft.)
0.083	0.94	0.00	0.003	0	I				0.02
0.167	1.69	0.00	0.012	0	I				0.07
0.250	2.02	0.00	0.025	0	I				0.13
0.333	2.21	0.00	0.040	0	I				0.21
0.417	2.30	0.00	0.055	0	I				0.30
0.500	2.51	0.00	0.072	0	I				0.39
0.583	2.96	0.00	0.090	0	I				0.49
0.667	3.56	0.04	0.113	0	I				0.60
0.750	4.86	0.09	0.141	0	I				0.73
0.833	9.15	0.18	0.189	0		I			0.96
0.917	7.19	0.20	0.244	0			I		1.20
1.000	3.34	0.20	0.279	0	I				1.35
1.083	1.28	0.20	0.293	0	I				1.41
1.167	0.20	0.20	0.297	0					1.43
1.250	0.04	0.20	0.296	0					1.43
1.333	0.00	0.20	0.295	0					1.42
1.417	0.00	0.20	0.294	0					1.42
1.500	0.00	0.20	0.292	0					1.41
1.583	0.00	0.20	0.291	0					1.41

1.667	0.00	0.20	0.290	0					1.40
1.750	0.00	0.20	0.288	0					1.39
1.833	0.00	0.20	0.287	0					1.39
1.917	0.00	0.20	0.286	0					1.38
2.000	0.00	0.20	0.284	0					1.38
2.083	0.00	0.20	0.283	0					1.37
2.167	0.00	0.20	0.282	0					1.36
2.250	0.00	0.20	0.280	0					1.36
2.333	0.00	0.20	0.279	0					1.35
2.417	0.00	0.20	0.278	0					1.35
2.500	0.00	0.20	0.276	0					1.34
2.583	0.00	0.20	0.275	0					1.34
2.667	0.00	0.20	0.273	0					1.33
2.750	0.00	0.20	0.272	0					1.32
2.833	0.00	0.20	0.271	0					1.32
2.917	0.00	0.20	0.269	0					1.31
3.000	0.00	0.20	0.268	0					1.31
3.083	0.00	0.20	0.267	0					1.30
3.167	0.00	0.20	0.265	0					1.29
3.250	0.00	0.20	0.264	0					1.29
3.333	0.00	0.20	0.263	0					1.28
3.417	0.00	0.20	0.261	0					1.28
3.500	0.00	0.20	0.260	0					1.27
3.583	0.00	0.20	0.259	0					1.27
3.667	0.00	0.20	0.257	0					1.26
3.750	0.00	0.20	0.256	0					1.25
3.833	0.00	0.20	0.255	0					1.25
3.917	0.00	0.20	0.253	0					1.24
4.000	0.00	0.20	0.252	0					1.24
4.083	0.00	0.20	0.250	0					1.23
4.167	0.00	0.20	0.249	0					1.22
4.250	0.00	0.20	0.248	0					1.22
4.333	0.00	0.20	0.246	0					1.21
4.417	0.00	0.20	0.245	0					1.21
4.500	0.00	0.20	0.244	0					1.20
4.583	0.00	0.20	0.242	0					1.20
4.667	0.00	0.20	0.241	0					1.19
4.750	0.00	0.20	0.240	0					1.18
4.833	0.00	0.20	0.238	0					1.18
4.917	0.00	0.20	0.237	0					1.17
5.000	0.00	0.20	0.236	0					1.17
5.083	0.00	0.20	0.234	0					1.16
5.167	0.00	0.20	0.233	0					1.15
5.250	0.00	0.20	0.232	0					1.15
5.333	0.00	0.20	0.230	0					1.14
5.417	0.00	0.20	0.229	0					1.14
5.500	0.00	0.20	0.227	0					1.13
5.583	0.00	0.20	0.226	0					1.13
5.667	0.00	0.20	0.225	0					1.12
5.750	0.00	0.20	0.223	0					1.11

5.833	0.00	0.20	0.222	0					1.11
5.917	0.00	0.20	0.221	0					1.10
6.000	0.00	0.20	0.219	0					1.10
6.083	0.00	0.20	0.218	0					1.09
6.167	0.00	0.20	0.217	0					1.08
6.250	0.00	0.20	0.215	0					1.08
6.333	0.00	0.20	0.214	0					1.07
6.417	0.00	0.20	0.213	0					1.07
6.500	0.00	0.20	0.211	0					1.06
6.583	0.00	0.20	0.210	0					1.06
6.667	0.00	0.20	0.209	0					1.05
6.750	0.00	0.20	0.207	0					1.04
6.833	0.00	0.20	0.206	0					1.04
6.917	0.00	0.20	0.205	0					1.03
7.000	0.00	0.20	0.203	0					1.03
7.083	0.00	0.20	0.202	0					1.02
7.167	0.00	0.20	0.200	0					1.01
7.250	0.00	0.20	0.199	0					1.01
7.333	0.00	0.20	0.198	0					1.00
7.417	0.00	0.20	0.196	0					1.00
7.500	0.00	0.19	0.195	0					0.99
7.583	0.00	0.19	0.194	0					0.98
7.667	0.00	0.19	0.192	0					0.98
7.750	0.00	0.19	0.191	0					0.97
7.833	0.00	0.18	0.190	0					0.97
7.917	0.00	0.18	0.189	0					0.96
8.000	0.00	0.18	0.187	0					0.95
8.083	0.00	0.18	0.186	0					0.95
8.167	0.00	0.17	0.185	0					0.94
8.250	0.00	0.17	0.184	0					0.94
8.333	0.00	0.17	0.183	0					0.93
8.417	0.00	0.17	0.181	0					0.93
8.500	0.00	0.16	0.180	0					0.92
8.583	0.00	0.16	0.179	0					0.91
8.667	0.00	0.16	0.178	0					0.91
8.750	0.00	0.16	0.177	0					0.90
8.833	0.00	0.16	0.176	0					0.90
8.917	0.00	0.15	0.175	0					0.89
9.000	0.00	0.15	0.174	0					0.89
9.083	0.00	0.15	0.173	0					0.88
9.167	0.00	0.15	0.172	0					0.88
9.250	0.00	0.15	0.171	0					0.87
9.333	0.00	0.14	0.170	0					0.87
9.417	0.00	0.14	0.169	0					0.86
9.500	0.00	0.14	0.168	0					0.86
9.583	0.00	0.14	0.167	0					0.85
9.667	0.00	0.14	0.166	0					0.85
9.750	0.00	0.14	0.165	0					0.85
9.833	0.00	0.13	0.164	0					0.84
9.917	0.00	0.13	0.163	0					0.84

10.000	0.00	0.13	0.162	0					0.83
10.083	0.00	0.13	0.161	0					0.83
10.167	0.00	0.13	0.160	0					0.82
10.250	0.00	0.13	0.159	0					0.82
10.333	0.00	0.12	0.159	0					0.82
10.417	0.00	0.12	0.158	0					0.81
10.500	0.00	0.12	0.157	0					0.81
10.583	0.00	0.12	0.156	0					0.80
10.667	0.00	0.12	0.155	0					0.80
10.750	0.00	0.12	0.154	0					0.80
10.833	0.00	0.11	0.154	0					0.79
10.917	0.00	0.11	0.153	0					0.79
11.000	0.00	0.11	0.152	0					0.78
11.083	0.00	0.11	0.151	0					0.78
11.167	0.00	0.11	0.151	0					0.78
11.250	0.00	0.11	0.150	0					0.77
11.333	0.00	0.11	0.149	0					0.77
11.417	0.00	0.10	0.148	0					0.77
11.500	0.00	0.10	0.148	0					0.76
11.583	0.00	0.10	0.147	0					0.76
11.667	0.00	0.10	0.146	0					0.76
11.750	0.00	0.10	0.146	0					0.75
11.833	0.00	0.10	0.145	0					0.75
11.917	0.00	0.10	0.144	0					0.75
12.000	0.00	0.10	0.144	0					0.74
12.083	0.00	0.09	0.143	0					0.74
12.167	0.00	0.09	0.142	0					0.74
12.250	0.00	0.09	0.142	0					0.73
12.333	0.00	0.09	0.141	0					0.73
12.417	0.00	0.09	0.140	0					0.73
12.500	0.00	0.09	0.140	0					0.72
12.583	0.00	0.09	0.139	0					0.72
12.667	0.00	0.09	0.139	0					0.72
12.750	0.00	0.08	0.138	0					0.72
12.833	0.00	0.08	0.137	0					0.71
12.917	0.00	0.08	0.137	0					0.71
13.000	0.00	0.08	0.136	0					0.71
13.083	0.00	0.08	0.136	0					0.71
13.167	0.00	0.08	0.135	0					0.70
13.250	0.00	0.08	0.135	0					0.70
13.333	0.00	0.08	0.134	0					0.70
13.417	0.00	0.08	0.134	0					0.69
13.500	0.00	0.08	0.133	0					0.69
13.583	0.00	0.07	0.133	0					0.69
13.667	0.00	0.07	0.132	0					0.69
13.750	0.00	0.07	0.131	0					0.69
13.833	0.00	0.07	0.131	0					0.68
13.917	0.00	0.07	0.130	0					0.68
14.000	0.00	0.07	0.130	0					0.68
14.083	0.00	0.07	0.130	0					0.68

14.167	0.00	0.07	0.129	0					0.67
14.250	0.00	0.07	0.129	0					0.67
14.333	0.00	0.07	0.128	0					0.67
14.417	0.00	0.07	0.128	0					0.67
14.500	0.00	0.06	0.127	0					0.66
14.583	0.00	0.06	0.127	0					0.66
14.667	0.00	0.06	0.126	0					0.66
14.750	0.00	0.06	0.126	0					0.66
14.833	0.00	0.06	0.126	0					0.66
14.917	0.00	0.06	0.125	0					0.65
15.000	0.00	0.06	0.125	0					0.65
15.083	0.00	0.06	0.124	0					0.65
15.167	0.00	0.06	0.124	0					0.65
15.250	0.00	0.06	0.123	0					0.65
15.333	0.00	0.06	0.123	0					0.64
15.417	0.00	0.06	0.123	0					0.64
15.500	0.00	0.06	0.122	0					0.64
15.583	0.00	0.05	0.122	0					0.64
15.667	0.00	0.05	0.122	0					0.64
15.750	0.00	0.05	0.121	0					0.64
15.833	0.00	0.05	0.121	0					0.63
15.917	0.00	0.05	0.120	0					0.63
16.000	0.00	0.05	0.120	0					0.63
16.083	0.00	0.05	0.120	0					0.63
16.167	0.00	0.05	0.119	0					0.63
16.250	0.00	0.05	0.119	0					0.63
16.333	0.00	0.05	0.119	0					0.62
16.417	0.00	0.05	0.118	0					0.62
16.500	0.00	0.05	0.118	0					0.62
16.583	0.00	0.05	0.118	0					0.62
16.667	0.00	0.05	0.117	0					0.62
16.750	0.00	0.05	0.117	0					0.62
16.833	0.00	0.04	0.117	0					0.61
16.917	0.00	0.04	0.116	0					0.61
17.000	0.00	0.04	0.116	0					0.61
17.083	0.00	0.04	0.116	0					0.61
17.167	0.00	0.04	0.116	0					0.61
17.250	0.00	0.04	0.115	0					0.61
17.333	0.00	0.04	0.115	0					0.61
17.417	0.00	0.04	0.115	0					0.60
17.500	0.00	0.04	0.114	0					0.60
17.583	0.00	0.04	0.114	0					0.60
17.667	0.00	0.04	0.114	0					0.60
17.750	0.00	0.04	0.114	0					0.60
17.833	0.00	0.04	0.113	0					0.60
17.917	0.00	0.04	0.113	0					0.60
18.000	0.00	0.04	0.113	0					0.60
18.083	0.00	0.04	0.113	0					0.59
18.167	0.00	0.04	0.112	0					0.59
18.250	0.00	0.04	0.112	0					0.59

18.333	0.00	0.04	0.112	0					0.59
18.417	0.00	0.04	0.112	0					0.59
18.500	0.00	0.03	0.111	0					0.59
18.583	0.00	0.03	0.111	0					0.59
18.667	0.00	0.03	0.111	0					0.59
18.750	0.00	0.03	0.111	0					0.58
18.833	0.00	0.03	0.110	0					0.58
18.917	0.00	0.03	0.110	0					0.58
19.000	0.00	0.03	0.110	0					0.58
19.083	0.00	0.03	0.110	0					0.58
19.167	0.00	0.03	0.110	0					0.58
19.250	0.00	0.03	0.109	0					0.58
19.333	0.00	0.03	0.109	0					0.58
19.417	0.00	0.03	0.109	0					0.58
19.500	0.00	0.03	0.109	0					0.58
19.583	0.00	0.03	0.108	0					0.57
19.667	0.00	0.03	0.108	0					0.57
19.750	0.00	0.03	0.108	0					0.57
19.833	0.00	0.03	0.108	0					0.57
19.917	0.00	0.03	0.108	0					0.57
20.000	0.00	0.03	0.108	0					0.57
20.083	0.00	0.03	0.107	0					0.57
20.167	0.00	0.03	0.107	0					0.57
20.250	0.00	0.03	0.107	0					0.57
20.333	0.00	0.03	0.107	0					0.57
20.417	0.00	0.03	0.107	0					0.57
20.500	0.00	0.03	0.106	0					0.56
20.583	0.00	0.03	0.106	0					0.56
20.667	0.00	0.02	0.106	0					0.56
20.750	0.00	0.02	0.106	0					0.56
20.833	0.00	0.02	0.106	0					0.56
20.917	0.00	0.02	0.106	0					0.56
21.000	0.00	0.02	0.105	0					0.56
21.083	0.00	0.02	0.105	0					0.56
21.167	0.00	0.02	0.105	0					0.56
21.250	0.00	0.02	0.105	0					0.56
21.333	0.00	0.02	0.105	0					0.56
21.417	0.00	0.02	0.105	0					0.56
21.500	0.00	0.02	0.104	0					0.56
21.583	0.00	0.02	0.104	0					0.55
21.667	0.00	0.02	0.104	0					0.55
21.750	0.00	0.02	0.104	0					0.55
21.833	0.00	0.02	0.104	0					0.55
21.917	0.00	0.02	0.104	0					0.55
22.000	0.00	0.02	0.104	0					0.55
22.083	0.00	0.02	0.103	0					0.55
22.167	0.00	0.02	0.103	0					0.55
22.250	0.00	0.02	0.103	0					0.55
22.333	0.00	0.02	0.103	0					0.55
22.417	0.00	0.02	0.103	0					0.55

22.500	0.00	0.02	0.103	0					0.55
22.583	0.00	0.02	0.103	0					0.55
22.667	0.00	0.02	0.103	0					0.55
22.750	0.00	0.02	0.102	0					0.55
22.833	0.00	0.02	0.102	0					0.54
22.917	0.00	0.02	0.102	0					0.54
23.000	0.00	0.02	0.102	0					0.54
23.083	0.00	0.02	0.102	0					0.54
23.167	0.00	0.02	0.102	0					0.54
23.250	0.00	0.02	0.102	0					0.54
23.333	0.00	0.02	0.102	0					0.54
23.417	0.00	0.02	0.102	0					0.54
23.500	0.00	0.02	0.101	0					0.54
23.583	0.00	0.02	0.101	0					0.54
23.667	0.00	0.02	0.101	0					0.54
23.750	0.00	0.02	0.101	0					0.54
23.833	0.00	0.02	0.101	0					0.54
23.917	0.00	0.01	0.101	0					0.54
24.000	0.00	0.01	0.101	0					0.54
24.083	0.00	0.01	0.101	0					0.54
24.167	0.00	0.01	0.101	0					0.54
24.250	0.00	0.01	0.100	0					0.54
24.333	0.00	0.01	0.100	0					0.54
24.417	0.00	0.01	0.100	0					0.54
24.500	0.00	0.01	0.100	0					0.53
24.583	0.00	0.01	0.100	0					0.53
24.667	0.00	0.01	0.100	0					0.53
24.750	0.00	0.01	0.100	0					0.53
24.833	0.00	0.01	0.100	0					0.53
24.917	0.00	0.01	0.100	0					0.53
25.000	0.00	0.01	0.100	0					0.53
25.083	0.00	0.01	0.100	0					0.53
25.167	0.00	0.01	0.099	0					0.53
25.250	0.00	0.01	0.099	0					0.53
25.333	0.00	0.01	0.099	0					0.53
25.417	0.00	0.01	0.099	0					0.53
25.500	0.00	0.01	0.099	0					0.53
25.583	0.00	0.01	0.099	0					0.53
25.667	0.00	0.01	0.099	0					0.53
25.750	0.00	0.01	0.099	0					0.53
25.833	0.00	0.01	0.099	0					0.53
25.917	0.00	0.01	0.099	0					0.53
26.000	0.00	0.01	0.099	0					0.53
26.083	0.00	0.01	0.099	0					0.53
26.167	0.00	0.01	0.099	0					0.53
26.250	0.00	0.01	0.098	0					0.53
26.333	0.00	0.01	0.098	0					0.53
26.417	0.00	0.01	0.098	0					0.53
26.500	0.00	0.01	0.098	0					0.53
26.583	0.00	0.01	0.098	0					0.52

26.667	0.00	0.01	0.098	0					0.52
26.750	0.00	0.01	0.098	0					0.52
26.833	0.00	0.01	0.098	0					0.52
26.917	0.00	0.01	0.098	0					0.52
27.000	0.00	0.01	0.098	0					0.52
27.083	0.00	0.01	0.098	0					0.52
27.167	0.00	0.01	0.098	0					0.52
27.250	0.00	0.01	0.098	0					0.52
27.333	0.00	0.01	0.098	0					0.52
27.417	0.00	0.01	0.098	0					0.52
27.500	0.00	0.01	0.098	0					0.52
27.583	0.00	0.01	0.097	0					0.52
27.667	0.00	0.01	0.097	0					0.52
27.750	0.00	0.01	0.097	0					0.52
27.833	0.00	0.01	0.097	0					0.52
27.917	0.00	0.01	0.097	0					0.52
28.000	0.00	0.01	0.097	0					0.52
28.083	0.00	0.01	0.097	0					0.52
28.167	0.00	0.01	0.097	0					0.52
28.250	0.00	0.01	0.097	0					0.52
28.333	0.00	0.01	0.097	0					0.52
28.417	0.00	0.01	0.097	0					0.52
28.500	0.00	0.01	0.097	0					0.52
28.583	0.00	0.01	0.097	0					0.52
28.667	0.00	0.01	0.097	0					0.52
28.750	0.00	0.01	0.097	0					0.52
28.833	0.00	0.01	0.097	0					0.52
28.917	0.00	0.01	0.097	0					0.52
29.000	0.00	0.01	0.097	0					0.52
29.083	0.00	0.01	0.097	0					0.52
29.167	0.00	0.01	0.096	0					0.52
29.250	0.00	0.01	0.096	0					0.52
29.333	0.00	0.01	0.096	0					0.52
29.417	0.00	0.01	0.096	0					0.52
29.500	0.00	0.01	0.096	0					0.52
29.583	0.00	0.01	0.096	0					0.52
29.667	0.00	0.01	0.096	0					0.52
29.750	0.00	0.01	0.096	0					0.52
29.833	0.00	0.01	0.096	0					0.52
29.917	0.00	0.01	0.096	0					0.51
30.000	0.00	0.01	0.096	0					0.51
30.083	0.00	0.01	0.096	0					0.51
30.167	0.00	0.01	0.096	0					0.51
30.250	0.00	0.01	0.096	0					0.51
30.333	0.00	0.01	0.096	0					0.51
30.417	0.00	0.01	0.096	0					0.51
30.500	0.00	0.01	0.096	0					0.51
30.583	0.00	0.01	0.096	0					0.51
30.667	0.00	0.01	0.096	0					0.51
30.750	0.00	0.01	0.096	0					0.51

30.833	0.00	0.01	0.096	0					0.51
30.917	0.00	0.00	0.096	0					0.51
31.000	0.00	0.00	0.096	0					0.51
31.083	0.00	0.00	0.096	0					0.51
31.167	0.00	0.00	0.096	0					0.51
31.250	0.00	0.00	0.096	0					0.51
31.333	0.00	0.00	0.095	0					0.51
31.417	0.00	0.00	0.095	0					0.51
31.500	0.00	0.00	0.095	0					0.51
31.583	0.00	0.00	0.095	0					0.51
31.667	0.00	0.00	0.095	0					0.51
31.750	0.00	0.00	0.095	0					0.51
31.833	0.00	0.00	0.095	0					0.51
31.917	0.00	0.00	0.095	0					0.51
32.000	0.00	0.00	0.095	0					0.51
32.083	0.00	0.00	0.095	0					0.51
32.167	0.00	0.00	0.095	0					0.51
32.250	0.00	0.00	0.095	0					0.51
32.333	0.00	0.00	0.095	0					0.51
32.417	0.00	0.00	0.095	0					0.51
32.500	0.00	0.00	0.095	0					0.51
32.583	0.00	0.00	0.095	0					0.51
32.667	0.00	0.00	0.095	0					0.51
32.750	0.00	0.00	0.095	0					0.51
32.833	0.00	0.00	0.095	0					0.51
32.917	0.00	0.00	0.095	0					0.51
33.000	0.00	0.00	0.095	0					0.51
33.083	0.00	0.00	0.095	0					0.51
33.167	0.00	0.00	0.095	0					0.51
33.250	0.00	0.00	0.095	0					0.51
33.333	0.00	0.00	0.095	0					0.51
33.417	0.00	0.00	0.095	0					0.51
33.500	0.00	0.00	0.095	0					0.51
33.583	0.00	0.00	0.095	0					0.51
33.667	0.00	0.00	0.095	0					0.51
33.750	0.00	0.00	0.095	0					0.51
33.833	0.00	0.00	0.095	0					0.51
33.917	0.00	0.00	0.095	0					0.51
34.000	0.00	0.00	0.095	0					0.51
34.083	0.00	0.00	0.095	0					0.51
34.167	0.00	0.00	0.095	0					0.51
34.250	0.00	0.00	0.095	0					0.51
34.333	0.00	0.00	0.095	0					0.51
34.417	0.00	0.00	0.095	0					0.51
34.500	0.00	0.00	0.095	0					0.51
34.583	0.00	0.00	0.094	0					0.51
34.667	0.00	0.00	0.094	0					0.51
34.750	0.00	0.00	0.094	0					0.51
34.833	0.00	0.00	0.094	0					0.51
34.917	0.00	0.00	0.094	0					0.51

35.000	0.00	0.00	0.094	0					0.51
35.083	0.00	0.00	0.094	0					0.51
35.167	0.00	0.00	0.094	0					0.51
35.250	0.00	0.00	0.094	0					0.51
35.333	0.00	0.00	0.094	0					0.51
35.417	0.00	0.00	0.094	0					0.51
35.500	0.00	0.00	0.094	0					0.51
35.583	0.00	0.00	0.094	0					0.51
35.667	0.00	0.00	0.094	0					0.51
35.750	0.00	0.00	0.094	0					0.51
35.833	0.00	0.00	0.094	0					0.51
35.917	0.00	0.00	0.094	0					0.51
36.000	0.00	0.00	0.094	0					0.51
36.083	0.00	0.00	0.094	0					0.51
36.167	0.00	0.00	0.094	0					0.51
36.250	0.00	0.00	0.094	0					0.51
36.333	0.00	0.00	0.094	0					0.51
36.417	0.00	0.00	0.094	0					0.51
36.500	0.00	0.00	0.094	0					0.51
36.583	0.00	0.00	0.094	0					0.51
36.667	0.00	0.00	0.094	0					0.51
36.750	0.00	0.00	0.094	0					0.51
36.833	0.00	0.00	0.094	0					0.51
36.917	0.00	0.00	0.094	0					0.50
37.000	0.00	0.00	0.094	0					0.50
37.083	0.00	0.00	0.094	0					0.50
37.167	0.00	0.00	0.094	0					0.50
37.250	0.00	0.00	0.094	0					0.50
37.333	0.00	0.00	0.094	0					0.50
37.417	0.00	0.00	0.094	0					0.50
37.500	0.00	0.00	0.094	0					0.50
37.583	0.00	0.00	0.094	0					0.50
37.667	0.00	0.00	0.094	0					0.50
37.750	0.00	0.00	0.094	0					0.50
37.833	0.00	0.00	0.094	0					0.50
37.917	0.00	0.00	0.094	0					0.50
38.000	0.00	0.00	0.094	0					0.50
38.083	0.00	0.00	0.094	0					0.50
38.167	0.00	0.00	0.094	0					0.50
38.250	0.00	0.00	0.094	0					0.50
38.333	0.00	0.00	0.094	0					0.50
38.417	0.00	0.00	0.094	0					0.50
38.500	0.00	0.00	0.094	0					0.50
38.583	0.00	0.00	0.094	0					0.50
38.667	0.00	0.00	0.094	0					0.50
38.750	0.00	0.00	0.094	0					0.50
38.833	0.00	0.00	0.094	0					0.50
38.917	0.00	0.00	0.094	0					0.50
39.000	0.00	0.00	0.094	0					0.50
39.083	0.00	0.00	0.094	0					0.50

39.167	0.00	0.00	0.094	0					0.50
39.250	0.00	0.00	0.094	0					0.50
39.333	0.00	0.00	0.094	0					0.50
39.417	0.00	0.00	0.094	0					0.50
39.500	0.00	0.00	0.094	0					0.50
39.583	0.00	0.00	0.094	0					0.50
39.667	0.00	0.00	0.094	0					0.50
39.750	0.00	0.00	0.094	0					0.50
39.833	0.00	0.00	0.094	0					0.50
39.917	0.00	0.00	0.094	0					0.50
40.000	0.00	0.00	0.094	0					0.50
40.083	0.00	0.00	0.094	0					0.50
40.167	0.00	0.00	0.094	0					0.50
40.250	0.00	0.00	0.094	0					0.50
40.333	0.00	0.00	0.094	0					0.50
40.417	0.00	0.00	0.094	0					0.50
40.500	0.00	0.00	0.094	0					0.50
40.583	0.00	0.00	0.094	0					0.50
40.667	0.00	0.00	0.094	0					0.50
40.750	0.00	0.00	0.094	0					0.50
40.833	0.00	0.00	0.094	0					0.50
40.917	0.00	0.00	0.094	0					0.50
41.000	0.00	0.00	0.094	0					0.50
41.083	0.00	0.00	0.094	0					0.50
41.167	0.00	0.00	0.094	0					0.50
41.250	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 495
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.196 (CFS)
Total volume = 0.211 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 1 5YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH35.rte
*****HYDROGRAPH DATA*****
Number of intervals = 39
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 5.667 (CFS)
Total volume = 0.475 (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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Process from Point/Station 1.000 to Point/Station 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 39

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.4	2.83	4.25	5.67	Depth (Ft.)
0.083	0.45	0.00	0.002	0	I				0.01
0.167	0.80	0.00	0.006	0	I				0.03
0.250	0.79	0.00	0.011	0	I				0.06
0.333	0.89	0.00	0.017	0	I				0.09
0.417	0.99	0.00	0.024	0	I				0.13
0.500	1.11	0.00	0.031	0	I				0.17
0.583	1.09	0.00	0.038	0	I				0.21
0.667	1.13	0.00	0.046	0	I				0.25
0.750	1.20	0.00	0.054	0	I				0.29
0.833	1.10	0.00	0.062	0	I				0.33
0.917	1.06	0.00	0.069	0	I				0.37
1.000	1.14	0.00	0.077	0	I				0.41
1.083	1.34	0.00	0.085	0	I				0.46
1.167	1.45	0.00	0.095	0	I				0.51
1.250	1.47	0.02	0.105	0	I				0.56
1.333	1.41	0.04	0.115	0	I				0.60
1.417	1.56	0.06	0.125	0	I				0.65
1.500	1.75	0.08	0.136	0	I				0.70
1.583	1.70	0.10	0.147	0	I				0.76

1.667	1.73	0.12	0.158	0	I					0.81
1.750	2.01	0.15	0.170	0	I					0.87
1.833	2.11	0.17	0.183	0	I					0.93
1.917	2.02	0.19	0.196	0	I					0.99
2.000	2.00	0.20	0.208	0	I					1.05
2.083	2.05	0.20	0.221	0	I					1.10
2.167	2.46	0.20	0.235	0		I				1.16
2.250	3.05	0.20	0.253	0			I			1.24
2.333	2.80	0.20	0.272	0		I				1.32
2.417	3.76	0.20	0.293	0			I			1.41
2.500	4.95	0.20	0.321	0				I		1.53
2.583	5.67	0.20	0.357	0					I	1.67
2.667	5.04	0.20	0.392	0				I		1.81
2.750	2.87	0.20	0.418	0			I			1.91
2.833	1.56	0.20	0.432	0	I					1.97
2.917	1.28	0.20	0.440	0	I					2.00
3.000	0.80	0.20	0.446	0	I					2.02
3.083	0.27	0.20	0.448	0						2.03
3.167	0.05	0.20	0.448	IO						2.03
3.250	0.01	0.20	0.447	IO						2.03
3.333	0.00	0.20	0.446	IO						2.02
3.417	0.00	0.20	0.444	IO						2.02
3.500	0.00	0.20	0.443	IO						2.01
3.583	0.00	0.20	0.442	IO						2.01
3.667	0.00	0.20	0.440	IO						2.00
3.750	0.00	0.20	0.439	IO						2.00
3.833	0.00	0.20	0.438	IO						1.99
3.917	0.00	0.20	0.436	IO						1.99
4.000	0.00	0.20	0.435	IO						1.98
4.083	0.00	0.20	0.434	IO						1.97
4.167	0.00	0.20	0.432	IO						1.97
4.250	0.00	0.20	0.431	IO						1.96
4.333	0.00	0.20	0.430	IO						1.96
4.417	0.00	0.20	0.428	IO						1.95
4.500	0.00	0.20	0.427	IO						1.95
4.583	0.00	0.20	0.425	IO						1.94
4.667	0.00	0.20	0.424	IO						1.94
4.750	0.00	0.20	0.423	IO						1.93
4.833	0.00	0.20	0.421	IO						1.93
4.917	0.00	0.20	0.420	IO						1.92
5.000	0.00	0.20	0.419	IO						1.92
5.083	0.00	0.20	0.417	IO						1.91
5.167	0.00	0.20	0.416	IO						1.91
5.250	0.00	0.20	0.415	IO						1.90
5.333	0.00	0.20	0.413	IO						1.89
5.417	0.00	0.20	0.412	IO						1.89
5.500	0.00	0.20	0.411	IO						1.88
5.583	0.00	0.20	0.409	IO						1.88
5.667	0.00	0.20	0.408	IO						1.87
5.750	0.00	0.20	0.407	IO						1.87

5.833	0.00	0.20	0.405	IO					1.86
5.917	0.00	0.20	0.404	IO					1.86
6.000	0.00	0.20	0.402	IO					1.85
6.083	0.00	0.20	0.401	IO					1.85
6.167	0.00	0.20	0.400	IO					1.84
6.250	0.00	0.20	0.398	IO					1.84
6.333	0.00	0.20	0.397	IO					1.83
6.417	0.00	0.20	0.396	IO					1.83
6.500	0.00	0.20	0.394	IO					1.82
6.583	0.00	0.20	0.393	IO					1.82
6.667	0.00	0.20	0.392	IO					1.81
6.750	0.00	0.20	0.390	IO					1.80
6.833	0.00	0.20	0.389	IO					1.80
6.917	0.00	0.20	0.388	IO					1.79
7.000	0.00	0.20	0.386	IO					1.79
7.083	0.00	0.20	0.385	IO					1.78
7.167	0.00	0.20	0.384	IO					1.78
7.250	0.00	0.20	0.382	IO					1.77
7.333	0.00	0.20	0.381	IO					1.77
7.417	0.00	0.20	0.379	IO					1.76
7.500	0.00	0.20	0.378	IO					1.76
7.583	0.00	0.20	0.377	IO					1.75
7.667	0.00	0.20	0.375	IO					1.75
7.750	0.00	0.20	0.374	IO					1.74
7.833	0.00	0.20	0.373	IO					1.74
7.917	0.00	0.20	0.371	IO					1.73
8.000	0.00	0.20	0.370	IO					1.72
8.083	0.00	0.20	0.369	IO					1.72
8.167	0.00	0.20	0.367	IO					1.71
8.250	0.00	0.20	0.366	IO					1.71
8.333	0.00	0.20	0.365	IO					1.70
8.417	0.00	0.20	0.363	IO					1.70
8.500	0.00	0.20	0.362	IO					1.69
8.583	0.00	0.20	0.361	IO					1.69
8.667	0.00	0.20	0.359	IO					1.68
8.750	0.00	0.20	0.358	IO					1.68
8.833	0.00	0.20	0.357	IO					1.67
8.917	0.00	0.20	0.355	IO					1.67
9.000	0.00	0.20	0.354	IO					1.66
9.083	0.00	0.20	0.352	IO					1.66
9.167	0.00	0.20	0.351	IO					1.65
9.250	0.00	0.20	0.350	IO					1.64
9.333	0.00	0.20	0.348	IO					1.64
9.417	0.00	0.20	0.347	IO					1.63
9.500	0.00	0.20	0.346	IO					1.63
9.583	0.00	0.20	0.344	IO					1.62
9.667	0.00	0.20	0.343	IO					1.62
9.750	0.00	0.20	0.342	IO					1.61
9.833	0.00	0.20	0.340	IO					1.61
9.917	0.00	0.20	0.339	IO					1.60

10.000	0.00	0.20	0.338	IO					1.60
10.083	0.00	0.20	0.336	IO					1.59
10.167	0.00	0.20	0.335	IO					1.59
10.250	0.00	0.20	0.334	IO					1.58
10.333	0.00	0.20	0.332	IO					1.58
10.417	0.00	0.20	0.331	IO					1.57
10.500	0.00	0.20	0.329	IO					1.56
10.583	0.00	0.20	0.328	IO					1.56
10.667	0.00	0.20	0.327	IO					1.55
10.750	0.00	0.20	0.325	IO					1.55
10.833	0.00	0.20	0.324	IO					1.54
10.917	0.00	0.20	0.323	IO					1.54
11.000	0.00	0.20	0.321	IO					1.53
11.083	0.00	0.20	0.320	IO					1.53
11.167	0.00	0.20	0.319	IO					1.52
11.250	0.00	0.20	0.317	IO					1.52
11.333	0.00	0.20	0.316	IO					1.51
11.417	0.00	0.20	0.315	IO					1.51
11.500	0.00	0.20	0.313	IO					1.50
11.583	0.00	0.20	0.312	IO					1.50
11.667	0.00	0.20	0.311	IO					1.49
11.750	0.00	0.20	0.309	IO					1.48
11.833	0.00	0.20	0.308	IO					1.48
11.917	0.00	0.20	0.306	IO					1.47
12.000	0.00	0.20	0.305	IO					1.47
12.083	0.00	0.20	0.304	IO					1.46
12.167	0.00	0.20	0.302	IO					1.45
12.250	0.00	0.20	0.301	IO					1.45
12.333	0.00	0.20	0.300	IO					1.44
12.417	0.00	0.20	0.298	IO					1.44
12.500	0.00	0.20	0.297	IO					1.43
12.583	0.00	0.20	0.296	IO					1.43
12.667	0.00	0.20	0.294	IO					1.42
12.750	0.00	0.20	0.293	IO					1.41
12.833	0.00	0.20	0.292	IO					1.41
12.917	0.00	0.20	0.290	IO					1.40
13.000	0.00	0.20	0.289	IO					1.40
13.083	0.00	0.20	0.288	IO					1.39
13.167	0.00	0.20	0.286	IO					1.38
13.250	0.00	0.20	0.285	IO					1.38
13.333	0.00	0.20	0.283	IO					1.37
13.417	0.00	0.20	0.282	IO					1.37
13.500	0.00	0.20	0.281	IO					1.36
13.583	0.00	0.20	0.279	IO					1.36
13.667	0.00	0.20	0.278	IO					1.35
13.750	0.00	0.20	0.277	IO					1.34
13.833	0.00	0.20	0.275	IO					1.34
13.917	0.00	0.20	0.274	IO					1.33
14.000	0.00	0.20	0.273	IO					1.33
14.083	0.00	0.20	0.271	IO					1.32

14.167	0.00	0.20	0.270	IO					1.31
14.250	0.00	0.20	0.269	IO					1.31
14.333	0.00	0.20	0.267	IO					1.30
14.417	0.00	0.20	0.266	IO					1.30
14.500	0.00	0.20	0.265	IO					1.29
14.583	0.00	0.20	0.263	IO					1.29
14.667	0.00	0.20	0.262	IO					1.28
14.750	0.00	0.20	0.260	IO					1.27
14.833	0.00	0.20	0.259	IO					1.27
14.917	0.00	0.20	0.258	IO					1.26
15.000	0.00	0.20	0.256	IO					1.26
15.083	0.00	0.20	0.255	IO					1.25
15.167	0.00	0.20	0.254	IO					1.24
15.250	0.00	0.20	0.252	IO					1.24
15.333	0.00	0.20	0.251	IO					1.23
15.417	0.00	0.20	0.250	IO					1.23
15.500	0.00	0.20	0.248	IO					1.22
15.583	0.00	0.20	0.247	IO					1.22
15.667	0.00	0.20	0.246	IO					1.21
15.750	0.00	0.20	0.244	IO					1.20
15.833	0.00	0.20	0.243	IO					1.20
15.917	0.00	0.20	0.242	IO					1.19
16.000	0.00	0.20	0.240	IO					1.19
16.083	0.00	0.20	0.239	IO					1.18
16.167	0.00	0.20	0.238	IO					1.17
16.250	0.00	0.20	0.236	IO					1.17
16.333	0.00	0.20	0.235	IO					1.16
16.417	0.00	0.20	0.233	IO					1.16
16.500	0.00	0.20	0.232	IO					1.15
16.583	0.00	0.20	0.231	IO					1.15
16.667	0.00	0.20	0.229	IO					1.14
16.750	0.00	0.20	0.228	IO					1.13
16.833	0.00	0.20	0.227	IO					1.13
16.917	0.00	0.20	0.225	IO					1.12
17.000	0.00	0.20	0.224	IO					1.12
17.083	0.00	0.20	0.223	IO					1.11
17.167	0.00	0.20	0.221	IO					1.10
17.250	0.00	0.20	0.220	IO					1.10
17.333	0.00	0.20	0.219	IO					1.09
17.417	0.00	0.20	0.217	IO					1.09
17.500	0.00	0.20	0.216	IO					1.08
17.583	0.00	0.20	0.215	IO					1.08
17.667	0.00	0.20	0.213	IO					1.07
17.750	0.00	0.20	0.212	IO					1.06
17.833	0.00	0.20	0.210	IO					1.06
17.917	0.00	0.20	0.209	IO					1.05
18.000	0.00	0.20	0.208	IO					1.05
18.083	0.00	0.20	0.206	IO					1.04
18.167	0.00	0.20	0.205	IO					1.03
18.250	0.00	0.20	0.204	IO					1.03

18.333	0.00	0.20	0.202	IO				1.02
18.417	0.00	0.20	0.201	IO				1.02
18.500	0.00	0.20	0.200	IO				1.01
18.583	0.00	0.20	0.198	IO				1.01
18.667	0.00	0.20	0.197	IO				1.00
18.750	0.00	0.19	0.196	IO				0.99
18.833	0.00	0.19	0.194	IO				0.99
18.917	0.00	0.19	0.193	IO				0.98
19.000	0.00	0.19	0.192	IO				0.97
19.083	0.00	0.18	0.190	IO				0.97
19.167	0.00	0.18	0.189	IO				0.96
19.250	0.00	0.18	0.188	IO				0.96
19.333	0.00	0.18	0.187	0				0.95
19.417	0.00	0.17	0.185	0				0.94
19.500	0.00	0.17	0.184	0				0.94
19.583	0.00	0.17	0.183	0				0.93
19.667	0.00	0.17	0.182	0				0.93
19.750	0.00	0.17	0.181	0				0.92
19.833	0.00	0.16	0.180	0				0.92
19.917	0.00	0.16	0.179	0				0.91
20.000	0.00	0.16	0.177	0				0.91
20.083	0.00	0.16	0.176	0				0.90
20.167	0.00	0.16	0.175	0				0.90
20.250	0.00	0.15	0.174	0				0.89
20.333	0.00	0.15	0.173	0				0.89
20.417	0.00	0.15	0.172	0				0.88
20.500	0.00	0.15	0.171	0				0.88
20.583	0.00	0.15	0.170	0				0.87
20.667	0.00	0.14	0.169	0				0.87
20.750	0.00	0.14	0.168	0				0.86
20.833	0.00	0.14	0.167	0				0.86
20.917	0.00	0.14	0.166	0				0.85
21.000	0.00	0.14	0.165	0				0.85
21.083	0.00	0.13	0.164	0				0.84
21.167	0.00	0.13	0.163	0				0.84
21.250	0.00	0.13	0.162	0				0.83
21.333	0.00	0.13	0.162	0				0.83
21.417	0.00	0.13	0.161	0				0.83
21.500	0.00	0.13	0.160	0				0.82
21.583	0.00	0.12	0.159	0				0.82
21.667	0.00	0.12	0.158	0				0.81
21.750	0.00	0.12	0.157	0				0.81
21.833	0.00	0.12	0.156	0				0.80
21.917	0.00	0.12	0.156	0				0.80
22.000	0.00	0.12	0.155	0				0.80
22.083	0.00	0.12	0.154	0				0.79
22.167	0.00	0.11	0.153	0				0.79
22.250	0.00	0.11	0.152	0				0.79
22.333	0.00	0.11	0.152	0				0.78
22.417	0.00	0.11	0.151	0				0.78

22.500	0.00	0.11	0.150	0					0.77
22.583	0.00	0.11	0.149	0					0.77
22.667	0.00	0.11	0.149	0					0.77
22.750	0.00	0.10	0.148	0					0.76
22.833	0.00	0.10	0.147	0					0.76
22.917	0.00	0.10	0.147	0					0.76
23.000	0.00	0.10	0.146	0					0.75
23.083	0.00	0.10	0.145	0					0.75
23.167	0.00	0.10	0.145	0					0.75
23.250	0.00	0.10	0.144	0					0.74
23.333	0.00	0.09	0.143	0					0.74
23.417	0.00	0.09	0.143	0					0.74
23.500	0.00	0.09	0.142	0					0.74
23.583	0.00	0.09	0.141	0					0.73
23.667	0.00	0.09	0.141	0					0.73
23.750	0.00	0.09	0.140	0					0.73
23.833	0.00	0.09	0.139	0					0.72
23.917	0.00	0.09	0.139	0					0.72
24.000	0.00	0.09	0.138	0					0.72
24.083	0.00	0.08	0.138	0					0.71
24.167	0.00	0.08	0.137	0					0.71
24.250	0.00	0.08	0.136	0					0.71
24.333	0.00	0.08	0.136	0					0.71
24.417	0.00	0.08	0.135	0					0.70
24.500	0.00	0.08	0.135	0					0.70
24.583	0.00	0.08	0.134	0					0.70
24.667	0.00	0.08	0.134	0					0.70
24.750	0.00	0.08	0.133	0					0.69
24.833	0.00	0.07	0.133	0					0.69
24.917	0.00	0.07	0.132	0					0.69
25.000	0.00	0.07	0.132	0					0.69
25.083	0.00	0.07	0.131	0					0.68
25.167	0.00	0.07	0.131	0					0.68
25.250	0.00	0.07	0.130	0					0.68
25.333	0.00	0.07	0.130	0					0.68
25.417	0.00	0.07	0.129	0					0.67
25.500	0.00	0.07	0.129	0					0.67
25.583	0.00	0.07	0.128	0					0.67
25.667	0.00	0.07	0.128	0					0.67
25.750	0.00	0.06	0.127	0					0.67
25.833	0.00	0.06	0.127	0					0.66
25.917	0.00	0.06	0.127	0					0.66
26.000	0.00	0.06	0.126	0					0.66
26.083	0.00	0.06	0.126	0					0.66
26.167	0.00	0.06	0.125	0					0.66
26.250	0.00	0.06	0.125	0					0.65
26.333	0.00	0.06	0.124	0					0.65
26.417	0.00	0.06	0.124	0					0.65
26.500	0.00	0.06	0.124	0					0.65
26.583	0.00	0.06	0.123	0					0.65

26.667	0.00	0.06	0.123	0					0.64
26.750	0.00	0.06	0.122	0					0.64
26.833	0.00	0.05	0.122	0					0.64
26.917	0.00	0.05	0.122	0					0.64
27.000	0.00	0.05	0.121	0					0.64
27.083	0.00	0.05	0.121	0					0.63
27.167	0.00	0.05	0.121	0					0.63
27.250	0.00	0.05	0.120	0					0.63
27.333	0.00	0.05	0.120	0					0.63
27.417	0.00	0.05	0.120	0					0.63
27.500	0.00	0.05	0.119	0					0.63
27.583	0.00	0.05	0.119	0					0.62
27.667	0.00	0.05	0.119	0					0.62
27.750	0.00	0.05	0.118	0					0.62
27.833	0.00	0.05	0.118	0					0.62
27.917	0.00	0.05	0.118	0					0.62
28.000	0.00	0.05	0.117	0					0.62
28.083	0.00	0.05	0.117	0					0.61
28.167	0.00	0.04	0.117	0					0.61
28.250	0.00	0.04	0.116	0					0.61
28.333	0.00	0.04	0.116	0					0.61
28.417	0.00	0.04	0.116	0					0.61
28.500	0.00	0.04	0.115	0					0.61
28.583	0.00	0.04	0.115	0					0.61
28.667	0.00	0.04	0.115	0					0.60
28.750	0.00	0.04	0.115	0					0.60
28.833	0.00	0.04	0.114	0					0.60
28.917	0.00	0.04	0.114	0					0.60
29.000	0.00	0.04	0.114	0					0.60
29.083	0.00	0.04	0.113	0					0.60
29.167	0.00	0.04	0.113	0					0.60
29.250	0.00	0.04	0.113	0					0.60
29.333	0.00	0.04	0.113	0					0.59
29.417	0.00	0.04	0.112	0					0.59
29.500	0.00	0.04	0.112	0					0.59
29.583	0.00	0.04	0.112	0					0.59
29.667	0.00	0.04	0.112	0					0.59
29.750	0.00	0.03	0.111	0					0.59
29.833	0.00	0.03	0.111	0					0.59
29.917	0.00	0.03	0.111	0					0.59
30.000	0.00	0.03	0.111	0					0.59
30.083	0.00	0.03	0.111	0					0.58
30.167	0.00	0.03	0.110	0					0.58
30.250	0.00	0.03	0.110	0					0.58
30.333	0.00	0.03	0.110	0					0.58
30.417	0.00	0.03	0.110	0					0.58
30.500	0.00	0.03	0.109	0					0.58
30.583	0.00	0.03	0.109	0					0.58
30.667	0.00	0.03	0.109	0					0.58
30.750	0.00	0.03	0.109	0					0.58

30.833	0.00	0.03	0.109	0					0.57
30.917	0.00	0.03	0.108	0					0.57
31.000	0.00	0.03	0.108	0					0.57
31.083	0.00	0.03	0.108	0					0.57
31.167	0.00	0.03	0.108	0					0.57
31.250	0.00	0.03	0.108	0					0.57
31.333	0.00	0.03	0.107	0					0.57
31.417	0.00	0.03	0.107	0					0.57
31.500	0.00	0.03	0.107	0					0.57
31.583	0.00	0.03	0.107	0					0.57
31.667	0.00	0.03	0.107	0					0.57
31.750	0.00	0.03	0.106	0					0.56
31.833	0.00	0.03	0.106	0					0.56
31.917	0.00	0.02	0.106	0					0.56
32.000	0.00	0.02	0.106	0					0.56
32.083	0.00	0.02	0.106	0					0.56
32.167	0.00	0.02	0.106	0					0.56
32.250	0.00	0.02	0.105	0					0.56
32.333	0.00	0.02	0.105	0					0.56
32.417	0.00	0.02	0.105	0					0.56
32.500	0.00	0.02	0.105	0					0.56
32.583	0.00	0.02	0.105	0					0.56
32.667	0.00	0.02	0.105	0					0.56
32.750	0.00	0.02	0.105	0					0.56
32.833	0.00	0.02	0.104	0					0.55
32.917	0.00	0.02	0.104	0					0.55
33.000	0.00	0.02	0.104	0					0.55
33.083	0.00	0.02	0.104	0					0.55
33.167	0.00	0.02	0.104	0					0.55
33.250	0.00	0.02	0.104	0					0.55
33.333	0.00	0.02	0.104	0					0.55
33.417	0.00	0.02	0.103	0					0.55
33.500	0.00	0.02	0.103	0					0.55
33.583	0.00	0.02	0.103	0					0.55
33.667	0.00	0.02	0.103	0					0.55
33.750	0.00	0.02	0.103	0					0.55
33.833	0.00	0.02	0.103	0					0.55
33.917	0.00	0.02	0.103	0					0.55
34.000	0.00	0.02	0.103	0					0.55
34.083	0.00	0.02	0.102	0					0.55
34.167	0.00	0.02	0.102	0					0.54
34.250	0.00	0.02	0.102	0					0.54
34.333	0.00	0.02	0.102	0					0.54
34.417	0.00	0.02	0.102	0					0.54
34.500	0.00	0.02	0.102	0					0.54
34.583	0.00	0.02	0.102	0					0.54
34.667	0.00	0.02	0.102	0					0.54
34.750	0.00	0.02	0.101	0					0.54
34.833	0.00	0.02	0.101	0					0.54
34.917	0.00	0.02	0.101	0					0.54

35.000	0.00	0.02	0.101	0				0.54
35.083	0.00	0.02	0.101	0				0.54
35.167	0.00	0.01	0.101	0				0.54
35.250	0.00	0.01	0.101	0				0.54
35.333	0.00	0.01	0.101	0				0.54
35.417	0.00	0.01	0.101	0				0.54
35.500	0.00	0.01	0.101	0				0.54
35.583	0.00	0.01	0.100	0				0.54
35.667	0.00	0.01	0.100	0				0.54
35.750	0.00	0.01	0.100	0				0.53
35.833	0.00	0.01	0.100	0				0.53
35.917	0.00	0.01	0.100	0				0.53
36.000	0.00	0.01	0.100	0				0.53
36.083	0.00	0.01	0.100	0				0.53
36.167	0.00	0.01	0.100	0				0.53
36.250	0.00	0.01	0.100	0				0.53
36.333	0.00	0.01	0.100	0				0.53
36.417	0.00	0.01	0.100	0				0.53
36.500	0.00	0.01	0.099	0				0.53
36.583	0.00	0.01	0.099	0				0.53
36.667	0.00	0.01	0.099	0				0.53
36.750	0.00	0.01	0.099	0				0.53
36.833	0.00	0.01	0.099	0				0.53
36.917	0.00	0.01	0.099	0				0.53
37.000	0.00	0.01	0.099	0				0.53
37.083	0.00	0.01	0.099	0				0.53
37.167	0.00	0.01	0.099	0				0.53
37.250	0.00	0.01	0.099	0				0.53
37.333	0.00	0.01	0.099	0				0.53
37.417	0.00	0.01	0.099	0				0.53
37.500	0.00	0.01	0.099	0				0.53
37.583	0.00	0.01	0.098	0				0.53
37.667	0.00	0.01	0.098	0				0.53
37.750	0.00	0.01	0.098	0				0.53
37.833	0.00	0.01	0.098	0				0.53
37.917	0.00	0.01	0.098	0				0.52
38.000	0.00	0.01	0.098	0				0.52
38.083	0.00	0.01	0.098	0				0.52
38.167	0.00	0.01	0.098	0				0.52
38.250	0.00	0.01	0.098	0				0.52
38.333	0.00	0.01	0.098	0				0.52
38.417	0.00	0.01	0.098	0				0.52
38.500	0.00	0.01	0.098	0				0.52
38.583	0.00	0.01	0.098	0				0.52
38.667	0.00	0.01	0.098	0				0.52
38.750	0.00	0.01	0.098	0				0.52
38.833	0.00	0.01	0.097	0				0.52
38.917	0.00	0.01	0.097	0				0.52
39.000	0.00	0.01	0.097	0				0.52
39.083	0.00	0.01	0.097	0				0.52

39.167	0.00	0.01	0.097	0					0.52
39.250	0.00	0.01	0.097	0					0.52
39.333	0.00	0.01	0.097	0					0.52
39.417	0.00	0.01	0.097	0					0.52
39.500	0.00	0.01	0.097	0					0.52
39.583	0.00	0.01	0.097	0					0.52
39.667	0.00	0.01	0.097	0					0.52
39.750	0.00	0.01	0.097	0					0.52
39.833	0.00	0.01	0.097	0					0.52
39.917	0.00	0.01	0.097	0					0.52
40.000	0.00	0.01	0.097	0					0.52
40.083	0.00	0.01	0.097	0					0.52
40.167	0.00	0.01	0.097	0					0.52
40.250	0.00	0.01	0.097	0					0.52
40.333	0.00	0.01	0.097	0					0.52
40.417	0.00	0.01	0.096	0					0.52
40.500	0.00	0.01	0.096	0					0.52
40.583	0.00	0.01	0.096	0					0.52
40.667	0.00	0.01	0.096	0					0.52
40.750	0.00	0.01	0.096	0					0.52
40.833	0.00	0.01	0.096	0					0.52
40.917	0.00	0.01	0.096	0					0.52
41.000	0.00	0.01	0.096	0					0.52
41.083	0.00	0.01	0.096	0					0.52
41.167	0.00	0.01	0.096	0					0.51
41.250	0.00	0.01	0.096	0					0.51
41.333	0.00	0.01	0.096	0					0.51
41.417	0.00	0.01	0.096	0					0.51
41.500	0.00	0.01	0.096	0					0.51
41.583	0.00	0.01	0.096	0					0.51
41.667	0.00	0.01	0.096	0					0.51
41.750	0.00	0.01	0.096	0					0.51
41.833	0.00	0.01	0.096	0					0.51
41.917	0.00	0.01	0.096	0					0.51
42.000	0.00	0.01	0.096	0					0.51
42.083	0.00	0.01	0.096	0					0.51
42.167	0.00	0.01	0.096	0					0.51
42.250	0.00	0.00	0.096	0					0.51
42.333	0.00	0.00	0.096	0					0.51
42.417	0.00	0.00	0.096	0					0.51
42.500	0.00	0.00	0.096	0					0.51
42.583	0.00	0.00	0.095	0					0.51
42.667	0.00	0.00	0.095	0					0.51
42.750	0.00	0.00	0.095	0					0.51
42.833	0.00	0.00	0.095	0					0.51
42.917	0.00	0.00	0.095	0					0.51
43.000	0.00	0.00	0.095	0					0.51
43.083	0.00	0.00	0.095	0					0.51
43.167	0.00	0.00	0.095	0					0.51
43.250	0.00	0.00	0.095	0					0.51

43.333	0.00	0.00	0.095	0					0.51
43.417	0.00	0.00	0.095	0					0.51
43.500	0.00	0.00	0.095	0					0.51
43.583	0.00	0.00	0.095	0					0.51
43.667	0.00	0.00	0.095	0					0.51
43.750	0.00	0.00	0.095	0					0.51
43.833	0.00	0.00	0.095	0					0.51
43.917	0.00	0.00	0.095	0					0.51
44.000	0.00	0.00	0.095	0					0.51
44.083	0.00	0.00	0.095	0					0.51
44.167	0.00	0.00	0.095	0					0.51
44.250	0.00	0.00	0.095	0					0.51
44.333	0.00	0.00	0.095	0					0.51
44.417	0.00	0.00	0.095	0					0.51
44.500	0.00	0.00	0.095	0					0.51
44.583	0.00	0.00	0.095	0					0.51
44.667	0.00	0.00	0.095	0					0.51
44.750	0.00	0.00	0.095	0					0.51
44.833	0.00	0.00	0.095	0					0.51
44.917	0.00	0.00	0.095	0					0.51
45.000	0.00	0.00	0.095	0					0.51
45.083	0.00	0.00	0.095	0					0.51
45.167	0.00	0.00	0.095	0					0.51
45.250	0.00	0.00	0.095	0					0.51
45.333	0.00	0.00	0.095	0					0.51
45.417	0.00	0.00	0.095	0					0.51
45.500	0.00	0.00	0.095	0					0.51
45.583	0.00	0.00	0.095	0					0.51
45.667	0.00	0.00	0.095	0					0.51
45.750	0.00	0.00	0.095	0					0.51
45.833	0.00	0.00	0.094	0					0.51
45.917	0.00	0.00	0.094	0					0.51
46.000	0.00	0.00	0.094	0					0.51
46.083	0.00	0.00	0.094	0					0.51
46.167	0.00	0.00	0.094	0					0.51
46.250	0.00	0.00	0.094	0					0.51
46.333	0.00	0.00	0.094	0					0.51
46.417	0.00	0.00	0.094	0					0.51
46.500	0.00	0.00	0.094	0					0.51
46.583	0.00	0.00	0.094	0					0.51
46.667	0.00	0.00	0.094	0					0.51
46.750	0.00	0.00	0.094	0					0.51
46.833	0.00	0.00	0.094	0					0.51
46.917	0.00	0.00	0.094	0					0.51
47.000	0.00	0.00	0.094	0					0.51
47.083	0.00	0.00	0.094	0					0.51
47.167	0.00	0.00	0.094	0					0.51
47.250	0.00	0.00	0.094	0					0.51
47.333	0.00	0.00	0.094	0					0.51
47.417	0.00	0.00	0.094	0					0.51

47.500	0.00	0.00	0.094	0					0.51
47.583	0.00	0.00	0.094	0					0.51
47.667	0.00	0.00	0.094	0					0.51
47.750	0.00	0.00	0.094	0					0.51
47.833	0.00	0.00	0.094	0					0.51
47.917	0.00	0.00	0.094	0					0.51
48.000	0.00	0.00	0.094	0					0.51
48.083	0.00	0.00	0.094	0					0.51
48.167	0.00	0.00	0.094	0					0.51
48.250	0.00	0.00	0.094	0					0.50
48.333	0.00	0.00	0.094	0					0.50
48.417	0.00	0.00	0.094	0					0.50
48.500	0.00	0.00	0.094	0					0.50
48.583	0.00	0.00	0.094	0					0.50
48.667	0.00	0.00	0.094	0					0.50
48.750	0.00	0.00	0.094	0					0.50
48.833	0.00	0.00	0.094	0					0.50
48.917	0.00	0.00	0.094	0					0.50
49.000	0.00	0.00	0.094	0					0.50
49.083	0.00	0.00	0.094	0					0.50
49.167	0.00	0.00	0.094	0					0.50
49.250	0.00	0.00	0.094	0					0.50
49.333	0.00	0.00	0.094	0					0.50
49.417	0.00	0.00	0.094	0					0.50
49.500	0.00	0.00	0.094	0					0.50
49.583	0.00	0.00	0.094	0					0.50
49.667	0.00	0.00	0.094	0					0.50
49.750	0.00	0.00	0.094	0					0.50
49.833	0.00	0.00	0.094	0					0.50
49.917	0.00	0.00	0.094	0					0.50
50.000	0.00	0.00	0.094	0					0.50
50.083	0.00	0.00	0.094	0					0.50
50.167	0.00	0.00	0.094	0					0.50
50.250	0.00	0.00	0.094	0					0.50
50.333	0.00	0.00	0.094	0					0.50
50.417	0.00	0.00	0.094	0					0.50
50.500	0.00	0.00	0.094	0					0.50
50.583	0.00	0.00	0.094	0					0.50
50.667	0.00	0.00	0.094	0					0.50
50.750	0.00	0.00	0.094	0					0.50
50.833	0.00	0.00	0.094	0					0.50
50.917	0.00	0.00	0.094	0					0.50
51.000	0.00	0.00	0.094	0					0.50
51.083	0.00	0.00	0.094	0					0.50
51.167	0.00	0.00	0.094	0					0.50
51.250	0.00	0.00	0.094	0					0.50
51.333	0.00	0.00	0.094	0					0.50
51.417	0.00	0.00	0.094	0					0.50
51.500	0.00	0.00	0.094	0					0.50
51.583	0.00	0.00	0.094	0					0.50

51.667	0.00	0.00	0.094	0					0.50
51.750	0.00	0.00	0.094	0					0.50
51.833	0.00	0.00	0.094	0					0.50
51.917	0.00	0.00	0.094	0					0.50
52.000	0.00	0.00	0.094	0					0.50
52.083	0.00	0.00	0.094	0					0.50
52.167	0.00	0.00	0.094	0					0.50
52.250	0.00	0.00	0.094	0					0.50
52.333	0.00	0.00	0.094	0					0.50
52.417	0.00	0.00	0.094	0					0.50
52.500	0.00	0.00	0.094	0					0.50
52.583	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

*****HYDROGRAPH DATA*****
 Number of intervals = 631
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 0.196 (CFS)
 Total volume = 0.381 (Ac.Ft)
 Status of hydrographs being held in storage
 Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
 Peak (CFS) 0.000 0.000 0.000 0.000 0.000
 Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 1 5YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH65.rte
*****HYDROGRAPH DATA*****
Number of intervals = 75
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 5.179 (CFS)
Total volume = 0.650 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 75

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.3	2.59	3.88	5.18	Depth (Ft.)
0.083	0.24	0.00	0.001	OI					0.00
0.167	0.47	0.00	0.003	O I					0.02
0.250	0.54	0.00	0.007	O I					0.04
0.333	0.56	0.00	0.011	O I					0.06
0.417	0.56	0.00	0.014	O I					0.08
0.500	0.61	0.00	0.018	O I					0.10
0.583	0.64	0.00	0.023	O I					0.12
0.667	0.65	0.00	0.027	O I					0.15
0.750	0.65	0.00	0.032	O I					0.17
0.833	0.65	0.00	0.036	O I					0.19
0.917	0.65	0.00	0.041	O I					0.22
1.000	0.70	0.00	0.045	O I					0.24
1.083	0.74	0.00	0.050	O I					0.27
1.167	0.74	0.00	0.055	O I					0.30
1.250	0.75	0.00	0.061	O I					0.33
1.333	0.75	0.00	0.066	O I					0.35
1.417	0.75	0.00	0.071	O I					0.38
1.500	0.75	0.00	0.076	O I					0.41
1.583	0.75	0.00	0.081	O I					0.44

1.667	0.75	0.00	0.086	0	I					0.46
1.750	0.75	0.00	0.091	0	I					0.49
1.833	0.75	0.01	0.096	0	I					0.52
1.917	0.75	0.02	0.101	0	I					0.54
2.000	0.79	0.03	0.107	0	I					0.57
2.083	0.78	0.04	0.112	0	I					0.59
2.167	0.80	0.05	0.117	0	I					0.62
2.250	0.83	0.06	0.122	0	I					0.64
2.333	0.84	0.07	0.128	0	I					0.67
2.417	0.84	0.08	0.133	0	I					0.69
2.500	0.84	0.09	0.138	0	I					0.72
2.583	0.84	0.09	0.143	0	I					0.74
2.667	0.84	0.10	0.148	0	I					0.77
2.750	0.89	0.11	0.154	0	I					0.79
2.833	0.92	0.12	0.159	0	I					0.82
2.917	0.93	0.13	0.164	0	I					0.84
3.000	0.93	0.15	0.170	0	I					0.87
3.083	0.93	0.16	0.175	0	I					0.90
3.167	0.98	0.17	0.181	0	I					0.92
3.250	1.02	0.18	0.187	0	I					0.95
3.333	1.02	0.19	0.192	0	I					0.98
3.417	1.07	0.20	0.198	0	I					1.01
3.500	1.16	0.20	0.205	0	I					1.03
3.583	1.25	0.20	0.211	0	I					1.06
3.667	1.29	0.20	0.219	0	I					1.09
3.750	1.35	0.20	0.227	0	I					1.13
3.833	1.39	0.20	0.235	0	I					1.16
3.917	1.44	0.20	0.243	0	I					1.20
4.000	1.48	0.20	0.252	0	I					1.24
4.083	1.54	0.20	0.261	0	I					1.28
4.167	1.62	0.20	0.270	0	I					1.32
4.250	1.72	0.20	0.281	0	I					1.36
4.333	1.81	0.20	0.291	0	I					1.41
4.417	1.90	0.20	0.303	0	I					1.46
4.500	1.95	0.20	0.315	0	I					1.51
4.583	2.00	0.20	0.327	0	I					1.55
4.667	2.09	0.20	0.340	0	I					1.61
4.750	2.18	0.20	0.353	0	I					1.66
4.833	2.23	0.20	0.367	0	I					1.71
4.917	2.28	0.20	0.381	0	I					1.77
5.000	2.37	0.20	0.396	0	I					1.83
5.083	2.65	0.20	0.412	0	I					1.89
5.167	3.11	0.20	0.430	0	I					1.96
5.250	3.52	0.20	0.452	0	I					2.04
5.333	3.89	0.20	0.476	0	I					2.13
5.417	4.37	0.20	0.503	0	I					2.22
5.500	5.18	0.20	0.534	0	I					2.34
5.583	3.60	0.20	0.563	0	I					2.44
5.667	1.62	0.20	0.580	0	I					2.50
5.750	0.85	0.20	0.587	0	I					2.52

5.833	0.55	0.20	0.591	O I					2.53
5.917	0.38	0.20	0.592	OI					2.54
6.000	0.25	0.20	0.593	O					2.54
6.083	0.10	0.20	0.593	IO					2.54
6.167	0.02	0.20	0.592	IO					2.54
6.250	0.00	0.20	0.591	IO					2.54
6.333	0.00	0.20	0.590	IO					2.53
6.417	0.00	0.20	0.588	IO					2.53
6.500	0.00	0.20	0.587	IO					2.52
6.583	0.00	0.20	0.586	IO					2.52
6.667	0.00	0.20	0.584	IO					2.51
6.750	0.00	0.20	0.583	IO					2.51
6.833	0.00	0.20	0.581	IO					2.50
6.917	0.00	0.20	0.580	IO					2.50
7.000	0.00	0.20	0.579	IO					2.50
7.083	0.00	0.20	0.577	IO					2.49
7.167	0.00	0.20	0.576	IO					2.49
7.250	0.00	0.20	0.575	IO					2.48
7.333	0.00	0.20	0.573	IO					2.48
7.417	0.00	0.20	0.572	IO					2.47
7.500	0.00	0.20	0.571	IO					2.47
7.583	0.00	0.20	0.569	IO					2.46
7.667	0.00	0.20	0.568	IO					2.46
7.750	0.00	0.20	0.567	IO					2.45
7.833	0.00	0.20	0.565	IO					2.45
7.917	0.00	0.20	0.564	IO					2.44
8.000	0.00	0.20	0.563	IO					2.44
8.083	0.00	0.20	0.561	IO					2.43
8.167	0.00	0.20	0.560	IO					2.43
8.250	0.00	0.20	0.558	IO					2.42
8.333	0.00	0.20	0.557	IO					2.42
8.417	0.00	0.20	0.556	IO					2.41
8.500	0.00	0.20	0.554	IO					2.41
8.583	0.00	0.20	0.553	IO					2.40
8.667	0.00	0.20	0.552	IO					2.40
8.750	0.00	0.20	0.550	IO					2.39
8.833	0.00	0.20	0.549	IO					2.39
8.917	0.00	0.20	0.548	IO					2.38
9.000	0.00	0.20	0.546	IO					2.38
9.083	0.00	0.20	0.545	IO					2.37
9.167	0.00	0.20	0.544	IO					2.37
9.250	0.00	0.20	0.542	IO					2.37
9.333	0.00	0.20	0.541	IO					2.36
9.417	0.00	0.20	0.540	IO					2.36
9.500	0.00	0.20	0.538	IO					2.35
9.583	0.00	0.20	0.537	IO					2.35
9.667	0.00	0.20	0.536	IO					2.34
9.750	0.00	0.20	0.534	IO					2.34
9.833	0.00	0.20	0.533	IO					2.33
9.917	0.00	0.20	0.531	IO					2.33

10.000	0.00	0.20	0.530	IO					2.32
10.083	0.00	0.20	0.529	IO					2.32
10.167	0.00	0.20	0.527	IO					2.31
10.250	0.00	0.20	0.526	IO					2.31
10.333	0.00	0.20	0.525	IO					2.30
10.417	0.00	0.20	0.523	IO					2.30
10.500	0.00	0.20	0.522	IO					2.29
10.583	0.00	0.20	0.521	IO					2.29
10.667	0.00	0.20	0.519	IO					2.28
10.750	0.00	0.20	0.518	IO					2.28
10.833	0.00	0.20	0.517	IO					2.27
10.917	0.00	0.20	0.515	IO					2.27
11.000	0.00	0.20	0.514	IO					2.26
11.083	0.00	0.20	0.513	IO					2.26
11.167	0.00	0.20	0.511	IO					2.25
11.250	0.00	0.20	0.510	IO					2.25
11.333	0.00	0.20	0.508	IO					2.24
11.417	0.00	0.20	0.507	IO					2.24
11.500	0.00	0.20	0.506	IO					2.23
11.583	0.00	0.20	0.504	IO					2.23
11.667	0.00	0.20	0.503	IO					2.23
11.750	0.00	0.20	0.502	IO					2.22
11.833	0.00	0.20	0.500	IO					2.22
11.917	0.00	0.20	0.499	IO					2.21
12.000	0.00	0.20	0.498	IO					2.21
12.083	0.00	0.20	0.496	IO					2.20
12.167	0.00	0.20	0.495	IO					2.20
12.250	0.00	0.20	0.494	IO					2.19
12.333	0.00	0.20	0.492	IO					2.19
12.417	0.00	0.20	0.491	IO					2.18
12.500	0.00	0.20	0.490	IO					2.18
12.583	0.00	0.20	0.488	IO					2.17
12.667	0.00	0.20	0.487	IO					2.17
12.750	0.00	0.20	0.485	IO					2.16
12.833	0.00	0.20	0.484	IO					2.16
12.917	0.00	0.20	0.483	IO					2.15
13.000	0.00	0.20	0.481	IO					2.15
13.083	0.00	0.20	0.480	IO					2.14
13.167	0.00	0.20	0.479	IO					2.14
13.250	0.00	0.20	0.477	IO					2.13
13.333	0.00	0.20	0.476	IO					2.13
13.417	0.00	0.20	0.475	IO					2.12
13.500	0.00	0.20	0.473	IO					2.12
13.583	0.00	0.20	0.472	IO					2.11
13.667	0.00	0.20	0.471	IO					2.11
13.750	0.00	0.20	0.469	IO					2.10
13.833	0.00	0.20	0.468	IO					2.10
13.917	0.00	0.20	0.467	IO					2.09
14.000	0.00	0.20	0.465	IO					2.09
14.083	0.00	0.20	0.464	IO					2.09

14.167	0.00	0.20	0.462	IO					2.08
14.250	0.00	0.20	0.461	IO					2.08
14.333	0.00	0.20	0.460	IO					2.07
14.417	0.00	0.20	0.458	IO					2.07
14.500	0.00	0.20	0.457	IO					2.06
14.583	0.00	0.20	0.456	IO					2.06
14.667	0.00	0.20	0.454	IO					2.05
14.750	0.00	0.20	0.453	IO					2.05
14.833	0.00	0.20	0.452	IO					2.04
14.917	0.00	0.20	0.450	IO					2.04
15.000	0.00	0.20	0.449	IO					2.03
15.083	0.00	0.20	0.448	IO					2.03
15.167	0.00	0.20	0.446	IO					2.02
15.250	0.00	0.20	0.445	IO					2.02
15.333	0.00	0.20	0.444	IO					2.01
15.417	0.00	0.20	0.442	IO					2.01
15.500	0.00	0.20	0.441	IO					2.00
15.583	0.00	0.20	0.439	IO					2.00
15.667	0.00	0.20	0.438	IO					1.99
15.750	0.00	0.20	0.437	IO					1.99
15.833	0.00	0.20	0.435	IO					1.98
15.917	0.00	0.20	0.434	IO					1.98
16.000	0.00	0.20	0.433	IO					1.97
16.083	0.00	0.20	0.431	IO					1.97
16.167	0.00	0.20	0.430	IO					1.96
16.250	0.00	0.20	0.429	IO					1.96
16.333	0.00	0.20	0.427	IO					1.95
16.417	0.00	0.20	0.426	IO					1.94
16.500	0.00	0.20	0.425	IO					1.94
16.583	0.00	0.20	0.423	IO					1.93
16.667	0.00	0.20	0.422	IO					1.93
16.750	0.00	0.20	0.421	IO					1.92
16.833	0.00	0.20	0.419	IO					1.92
16.917	0.00	0.20	0.418	IO					1.91
17.000	0.00	0.20	0.417	IO					1.91
17.083	0.00	0.20	0.415	IO					1.90
17.167	0.00	0.20	0.414	IO					1.90
17.250	0.00	0.20	0.412	IO					1.89
17.333	0.00	0.20	0.411	IO					1.89
17.417	0.00	0.20	0.410	IO					1.88
17.500	0.00	0.20	0.408	IO					1.88
17.583	0.00	0.20	0.407	IO					1.87
17.667	0.00	0.20	0.406	IO					1.86
17.750	0.00	0.20	0.404	IO					1.86
17.833	0.00	0.20	0.403	IO					1.85
17.917	0.00	0.20	0.402	IO					1.85
18.000	0.00	0.20	0.400	IO					1.84
18.083	0.00	0.20	0.399	IO					1.84
18.167	0.00	0.20	0.398	IO					1.83
18.250	0.00	0.20	0.396	IO					1.83

18.333	0.00	0.20	0.395	IO					1.82
18.417	0.00	0.20	0.394	IO					1.82
18.500	0.00	0.20	0.392	IO					1.81
18.583	0.00	0.20	0.391	IO					1.81
18.667	0.00	0.20	0.389	IO					1.80
18.750	0.00	0.20	0.388	IO					1.80
18.833	0.00	0.20	0.387	IO					1.79
18.917	0.00	0.20	0.385	IO					1.79
19.000	0.00	0.20	0.384	IO					1.78
19.083	0.00	0.20	0.383	IO					1.77
19.167	0.00	0.20	0.381	IO					1.77
19.250	0.00	0.20	0.380	IO					1.76
19.333	0.00	0.20	0.379	IO					1.76
19.417	0.00	0.20	0.377	IO					1.75
19.500	0.00	0.20	0.376	IO					1.75
19.583	0.00	0.20	0.375	IO					1.74
19.667	0.00	0.20	0.373	IO					1.74
19.750	0.00	0.20	0.372	IO					1.73
19.833	0.00	0.20	0.371	IO					1.73
19.917	0.00	0.20	0.369	IO					1.72
20.000	0.00	0.20	0.368	IO					1.72
20.083	0.00	0.20	0.366	IO					1.71
20.167	0.00	0.20	0.365	IO					1.71
20.250	0.00	0.20	0.364	IO					1.70
20.333	0.00	0.20	0.362	IO					1.69
20.417	0.00	0.20	0.361	IO					1.69
20.500	0.00	0.20	0.360	IO					1.68
20.583	0.00	0.20	0.358	IO					1.68
20.667	0.00	0.20	0.357	IO					1.67
20.750	0.00	0.20	0.356	IO					1.67
20.833	0.00	0.20	0.354	IO					1.66
20.917	0.00	0.20	0.353	IO					1.66
21.000	0.00	0.20	0.352	IO					1.65
21.083	0.00	0.20	0.350	IO					1.65
21.167	0.00	0.20	0.349	IO					1.64
21.250	0.00	0.20	0.348	IO					1.64
21.333	0.00	0.20	0.346	IO					1.63
21.417	0.00	0.20	0.345	IO					1.63
21.500	0.00	0.20	0.343	IO					1.62
21.583	0.00	0.20	0.342	IO					1.61
21.667	0.00	0.20	0.341	IO					1.61
21.750	0.00	0.20	0.339	IO					1.60
21.833	0.00	0.20	0.338	IO					1.60
21.917	0.00	0.20	0.337	IO					1.59
22.000	0.00	0.20	0.335	IO					1.59
22.083	0.00	0.20	0.334	IO					1.58
22.167	0.00	0.20	0.333	IO					1.58
22.250	0.00	0.20	0.331	IO					1.57
22.333	0.00	0.20	0.330	IO					1.57
22.417	0.00	0.20	0.329	IO					1.56

22.500	0.00	0.20	0.327	IO					1.56
22.583	0.00	0.20	0.326	IO					1.55
22.667	0.00	0.20	0.325	IO					1.55
22.750	0.00	0.20	0.323	IO					1.54
22.833	0.00	0.20	0.322	IO					1.53
22.917	0.00	0.20	0.320	IO					1.53
23.000	0.00	0.20	0.319	IO					1.52
23.083	0.00	0.20	0.318	IO					1.52
23.167	0.00	0.20	0.316	IO					1.51
23.250	0.00	0.20	0.315	IO					1.51
23.333	0.00	0.20	0.314	IO					1.50
23.417	0.00	0.20	0.312	IO					1.50
23.500	0.00	0.20	0.311	IO					1.49
23.583	0.00	0.20	0.310	IO					1.49
23.667	0.00	0.20	0.308	IO					1.48
23.750	0.00	0.20	0.307	IO					1.47
23.833	0.00	0.20	0.306	IO					1.47
23.917	0.00	0.20	0.304	IO					1.46
24.000	0.00	0.20	0.303	IO					1.46
24.083	0.00	0.20	0.302	IO					1.45
24.167	0.00	0.20	0.300	IO					1.44
24.250	0.00	0.20	0.299	IO					1.44
24.333	0.00	0.20	0.298	IO					1.43
24.417	0.00	0.20	0.296	IO					1.43
24.500	0.00	0.20	0.295	IO					1.42
24.583	0.00	0.20	0.293	IO					1.42
24.667	0.00	0.20	0.292	IO					1.41
24.750	0.00	0.20	0.291	IO					1.40
24.833	0.00	0.20	0.289	IO					1.40
24.917	0.00	0.20	0.288	IO					1.39
25.000	0.00	0.20	0.287	IO					1.39
25.083	0.00	0.20	0.285	IO					1.38
25.167	0.00	0.20	0.284	IO					1.37
25.250	0.00	0.20	0.283	IO					1.37
25.333	0.00	0.20	0.281	IO					1.36
25.417	0.00	0.20	0.280	IO					1.36
25.500	0.00	0.20	0.279	IO					1.35
25.583	0.00	0.20	0.277	IO					1.35
25.667	0.00	0.20	0.276	IO					1.34
25.750	0.00	0.20	0.275	IO					1.33
25.833	0.00	0.20	0.273	IO					1.33
25.917	0.00	0.20	0.272	IO					1.32
26.000	0.00	0.20	0.270	IO					1.32
26.083	0.00	0.20	0.269	IO					1.31
26.167	0.00	0.20	0.268	IO					1.30
26.250	0.00	0.20	0.266	IO					1.30
26.333	0.00	0.20	0.265	IO					1.29
26.417	0.00	0.20	0.264	IO					1.29
26.500	0.00	0.20	0.262	IO					1.28
26.583	0.00	0.20	0.261	IO					1.28

26.667	0.00	0.20	0.260	IO					1.27
26.750	0.00	0.20	0.258	IO					1.26
26.833	0.00	0.20	0.257	IO					1.26
26.917	0.00	0.20	0.256	IO					1.25
27.000	0.00	0.20	0.254	IO					1.25
27.083	0.00	0.20	0.253	IO					1.24
27.167	0.00	0.20	0.252	IO					1.24
27.250	0.00	0.20	0.250	IO					1.23
27.333	0.00	0.20	0.249	IO					1.22
27.417	0.00	0.20	0.247	IO					1.22
27.500	0.00	0.20	0.246	IO					1.21
27.583	0.00	0.20	0.245	IO					1.21
27.667	0.00	0.20	0.243	IO					1.20
27.750	0.00	0.20	0.242	IO					1.19
27.833	0.00	0.20	0.241	IO					1.19
27.917	0.00	0.20	0.239	IO					1.18
28.000	0.00	0.20	0.238	IO					1.18
28.083	0.00	0.20	0.237	IO					1.17
28.167	0.00	0.20	0.235	IO					1.17
28.250	0.00	0.20	0.234	IO					1.16
28.333	0.00	0.20	0.233	IO					1.15
28.417	0.00	0.20	0.231	IO					1.15
28.500	0.00	0.20	0.230	IO					1.14
28.583	0.00	0.20	0.229	IO					1.14
28.667	0.00	0.20	0.227	IO					1.13
28.750	0.00	0.20	0.226	IO					1.12
28.833	0.00	0.20	0.224	IO					1.12
28.917	0.00	0.20	0.223	IO					1.11
29.000	0.00	0.20	0.222	IO					1.11
29.083	0.00	0.20	0.220	IO					1.10
29.167	0.00	0.20	0.219	IO					1.10
29.250	0.00	0.20	0.218	IO					1.09
29.333	0.00	0.20	0.216	IO					1.08
29.417	0.00	0.20	0.215	IO					1.08
29.500	0.00	0.20	0.214	IO					1.07
29.583	0.00	0.20	0.212	IO					1.07
29.667	0.00	0.20	0.211	IO					1.06
29.750	0.00	0.20	0.210	IO					1.05
29.833	0.00	0.20	0.208	IO					1.05
29.917	0.00	0.20	0.207	IO					1.04
30.000	0.00	0.20	0.206	IO					1.04
30.083	0.00	0.20	0.204	IO					1.03
30.167	0.00	0.20	0.203	IO					1.03
30.250	0.00	0.20	0.201	IO					1.02
30.333	0.00	0.20	0.200	IO					1.01
30.417	0.00	0.20	0.199	IO					1.01
30.500	0.00	0.20	0.197	IO					1.00
30.583	0.00	0.19	0.196	IO					1.00
30.667	0.00	0.19	0.195	IO					0.99
30.750	0.00	0.19	0.193	IO					0.98

30.833	0.00	0.19	0.192	IO					0.98
30.917	0.00	0.18	0.191	IO					0.97
31.000	0.00	0.18	0.190	IO					0.96
31.083	0.00	0.18	0.188	IO					0.96
31.167	0.00	0.18	0.187	IO					0.95
31.250	0.00	0.18	0.186	IO					0.95
31.333	0.00	0.17	0.185	IO					0.94
31.417	0.00	0.17	0.184	IO					0.94
31.500	0.00	0.17	0.182	IO					0.93
31.583	0.00	0.17	0.181	IO					0.92
31.667	0.00	0.16	0.180	IO					0.92
31.750	0.00	0.16	0.179	IO					0.91
31.833	0.00	0.16	0.178	0					0.91
31.917	0.00	0.16	0.177	0					0.90
32.000	0.00	0.16	0.176	0					0.90
32.083	0.00	0.15	0.175	0					0.89
32.167	0.00	0.15	0.174	0					0.89
32.250	0.00	0.15	0.172	0					0.88
32.333	0.00	0.15	0.171	0					0.88
32.417	0.00	0.15	0.170	0					0.87
32.500	0.00	0.14	0.169	0					0.87
32.583	0.00	0.14	0.168	0					0.86
32.667	0.00	0.14	0.167	0					0.86
32.750	0.00	0.14	0.167	0					0.85
32.833	0.00	0.14	0.166	0					0.85
32.917	0.00	0.14	0.165	0					0.84
33.000	0.00	0.13	0.164	0					0.84
33.083	0.00	0.13	0.163	0					0.84
33.167	0.00	0.13	0.162	0					0.83
33.250	0.00	0.13	0.161	0					0.83
33.333	0.00	0.13	0.160	0					0.82
33.417	0.00	0.13	0.159	0					0.82
33.500	0.00	0.12	0.158	0					0.81
33.583	0.00	0.12	0.158	0					0.81
33.667	0.00	0.12	0.157	0					0.81
33.750	0.00	0.12	0.156	0					0.80
33.833	0.00	0.12	0.155	0					0.80
33.917	0.00	0.12	0.154	0					0.79
34.000	0.00	0.11	0.153	0					0.79
34.083	0.00	0.11	0.153	0					0.79
34.167	0.00	0.11	0.152	0					0.78
34.250	0.00	0.11	0.151	0					0.78
34.333	0.00	0.11	0.150	0					0.78
34.417	0.00	0.11	0.150	0					0.77
34.500	0.00	0.11	0.149	0					0.77
34.583	0.00	0.10	0.148	0					0.77
34.667	0.00	0.10	0.148	0					0.76
34.750	0.00	0.10	0.147	0					0.76
34.833	0.00	0.10	0.146	0					0.76
34.917	0.00	0.10	0.145	0					0.75

35.000	0.00	0.10	0.145	0				0.75
35.083	0.00	0.10	0.144	0				0.75
35.167	0.00	0.10	0.143	0				0.74
35.250	0.00	0.09	0.143	0				0.74
35.333	0.00	0.09	0.142	0				0.74
35.417	0.00	0.09	0.141	0				0.73
35.500	0.00	0.09	0.141	0				0.73
35.583	0.00	0.09	0.140	0				0.73
35.667	0.00	0.09	0.140	0				0.72
35.750	0.00	0.09	0.139	0				0.72
35.833	0.00	0.09	0.138	0				0.72
35.917	0.00	0.08	0.138	0				0.72
36.000	0.00	0.08	0.137	0				0.71
36.083	0.00	0.08	0.137	0				0.71
36.167	0.00	0.08	0.136	0				0.71
36.250	0.00	0.08	0.136	0				0.70
36.333	0.00	0.08	0.135	0				0.70
36.417	0.00	0.08	0.134	0				0.70
36.500	0.00	0.08	0.134	0				0.70
36.583	0.00	0.08	0.133	0				0.69
36.667	0.00	0.08	0.133	0				0.69
36.750	0.00	0.07	0.132	0				0.69
36.833	0.00	0.07	0.132	0				0.69
36.917	0.00	0.07	0.131	0				0.68
37.000	0.00	0.07	0.131	0				0.68
37.083	0.00	0.07	0.130	0				0.68
37.167	0.00	0.07	0.130	0				0.68
37.250	0.00	0.07	0.129	0				0.68
37.333	0.00	0.07	0.129	0				0.67
37.417	0.00	0.07	0.128	0				0.67
37.500	0.00	0.07	0.128	0				0.67
37.583	0.00	0.07	0.128	0				0.67
37.667	0.00	0.06	0.127	0				0.66
37.750	0.00	0.06	0.127	0				0.66
37.833	0.00	0.06	0.126	0				0.66
37.917	0.00	0.06	0.126	0				0.66
38.000	0.00	0.06	0.125	0				0.66
38.083	0.00	0.06	0.125	0				0.65
38.167	0.00	0.06	0.125	0				0.65
38.250	0.00	0.06	0.124	0				0.65
38.333	0.00	0.06	0.124	0				0.65
38.417	0.00	0.06	0.123	0				0.65
38.500	0.00	0.06	0.123	0				0.64
38.583	0.00	0.06	0.123	0				0.64
38.667	0.00	0.06	0.122	0				0.64
38.750	0.00	0.05	0.122	0				0.64
38.833	0.00	0.05	0.121	0				0.64
38.917	0.00	0.05	0.121	0				0.64
39.000	0.00	0.05	0.121	0				0.63
39.083	0.00	0.05	0.120	0				0.63

39.167	0.00	0.05	0.120	0					0.63
39.250	0.00	0.05	0.120	0					0.63
39.333	0.00	0.05	0.119	0					0.63
39.417	0.00	0.05	0.119	0					0.62
39.500	0.00	0.05	0.119	0					0.62
39.583	0.00	0.05	0.118	0					0.62
39.667	0.00	0.05	0.118	0					0.62
39.750	0.00	0.05	0.118	0					0.62
39.833	0.00	0.05	0.117	0					0.62
39.917	0.00	0.05	0.117	0					0.62
40.000	0.00	0.04	0.117	0					0.61
40.083	0.00	0.04	0.116	0					0.61
40.167	0.00	0.04	0.116	0					0.61
40.250	0.00	0.04	0.116	0					0.61
40.333	0.00	0.04	0.116	0					0.61
40.417	0.00	0.04	0.115	0					0.61
40.500	0.00	0.04	0.115	0					0.61
40.583	0.00	0.04	0.115	0					0.60
40.667	0.00	0.04	0.114	0					0.60
40.750	0.00	0.04	0.114	0					0.60
40.833	0.00	0.04	0.114	0					0.60
40.917	0.00	0.04	0.114	0					0.60
41.000	0.00	0.04	0.113	0					0.60
41.083	0.00	0.04	0.113	0					0.60
41.167	0.00	0.04	0.113	0					0.60
41.250	0.00	0.04	0.113	0					0.59
41.333	0.00	0.04	0.112	0					0.59
41.417	0.00	0.04	0.112	0					0.59
41.500	0.00	0.04	0.112	0					0.59
41.583	0.00	0.03	0.112	0					0.59
41.667	0.00	0.03	0.111	0					0.59
41.750	0.00	0.03	0.111	0					0.59
41.833	0.00	0.03	0.111	0					0.59
41.917	0.00	0.03	0.111	0					0.58
42.000	0.00	0.03	0.110	0					0.58
42.083	0.00	0.03	0.110	0					0.58
42.167	0.00	0.03	0.110	0					0.58
42.250	0.00	0.03	0.110	0					0.58
42.333	0.00	0.03	0.109	0					0.58
42.417	0.00	0.03	0.109	0					0.58
42.500	0.00	0.03	0.109	0					0.58
42.583	0.00	0.03	0.109	0					0.58
42.667	0.00	0.03	0.109	0					0.58
42.750	0.00	0.03	0.108	0					0.57
42.833	0.00	0.03	0.108	0					0.57
42.917	0.00	0.03	0.108	0					0.57
43.000	0.00	0.03	0.108	0					0.57
43.083	0.00	0.03	0.108	0					0.57
43.167	0.00	0.03	0.107	0					0.57
43.250	0.00	0.03	0.107	0					0.57

43.333	0.00	0.03	0.107	0					0.57
43.417	0.00	0.03	0.107	0					0.57
43.500	0.00	0.03	0.107	0					0.57
43.583	0.00	0.03	0.107	0					0.57
43.667	0.00	0.03	0.106	0					0.56
43.750	0.00	0.02	0.106	0					0.56
43.833	0.00	0.02	0.106	0					0.56
43.917	0.00	0.02	0.106	0					0.56
44.000	0.00	0.02	0.106	0					0.56
44.083	0.00	0.02	0.106	0					0.56
44.167	0.00	0.02	0.105	0					0.56
44.250	0.00	0.02	0.105	0					0.56
44.333	0.00	0.02	0.105	0					0.56
44.417	0.00	0.02	0.105	0					0.56
44.500	0.00	0.02	0.105	0					0.56
44.583	0.00	0.02	0.105	0					0.56
44.667	0.00	0.02	0.104	0					0.56
44.750	0.00	0.02	0.104	0					0.55
44.833	0.00	0.02	0.104	0					0.55
44.917	0.00	0.02	0.104	0					0.55
45.000	0.00	0.02	0.104	0					0.55
45.083	0.00	0.02	0.104	0					0.55
45.167	0.00	0.02	0.104	0					0.55
45.250	0.00	0.02	0.103	0					0.55
45.333	0.00	0.02	0.103	0					0.55
45.417	0.00	0.02	0.103	0					0.55
45.500	0.00	0.02	0.103	0					0.55
45.583	0.00	0.02	0.103	0					0.55
45.667	0.00	0.02	0.103	0					0.55
45.750	0.00	0.02	0.103	0					0.55
45.833	0.00	0.02	0.103	0					0.55
45.917	0.00	0.02	0.102	0					0.55
46.000	0.00	0.02	0.102	0					0.54
46.083	0.00	0.02	0.102	0					0.54
46.167	0.00	0.02	0.102	0					0.54
46.250	0.00	0.02	0.102	0					0.54
46.333	0.00	0.02	0.102	0					0.54
46.417	0.00	0.02	0.102	0					0.54
46.500	0.00	0.02	0.102	0					0.54
46.583	0.00	0.02	0.101	0					0.54
46.667	0.00	0.02	0.101	0					0.54
46.750	0.00	0.02	0.101	0					0.54
46.833	0.00	0.02	0.101	0					0.54
46.917	0.00	0.02	0.101	0					0.54
47.000	0.00	0.02	0.101	0					0.54
47.083	0.00	0.01	0.101	0					0.54
47.167	0.00	0.01	0.101	0					0.54
47.250	0.00	0.01	0.101	0					0.54
47.333	0.00	0.01	0.101	0					0.54
47.417	0.00	0.01	0.100	0					0.54

47.500	0.00	0.01	0.100	0					0.54
47.583	0.00	0.01	0.100	0					0.53
47.667	0.00	0.01	0.100	0					0.53
47.750	0.00	0.01	0.100	0					0.53
47.833	0.00	0.01	0.100	0					0.53
47.917	0.00	0.01	0.100	0					0.53
48.000	0.00	0.01	0.100	0					0.53
48.083	0.00	0.01	0.100	0					0.53
48.167	0.00	0.01	0.100	0					0.53
48.250	0.00	0.01	0.100	0					0.53
48.333	0.00	0.01	0.099	0					0.53
48.417	0.00	0.01	0.099	0					0.53
48.500	0.00	0.01	0.099	0					0.53
48.583	0.00	0.01	0.099	0					0.53
48.667	0.00	0.01	0.099	0					0.53
48.750	0.00	0.01	0.099	0					0.53
48.833	0.00	0.01	0.099	0					0.53
48.917	0.00	0.01	0.099	0					0.53
49.000	0.00	0.01	0.099	0					0.53
49.083	0.00	0.01	0.099	0					0.53
49.167	0.00	0.01	0.099	0					0.53
49.250	0.00	0.01	0.099	0					0.53
49.333	0.00	0.01	0.099	0					0.53
49.417	0.00	0.01	0.098	0					0.53
49.500	0.00	0.01	0.098	0					0.53
49.583	0.00	0.01	0.098	0					0.53
49.667	0.00	0.01	0.098	0					0.53
49.750	0.00	0.01	0.098	0					0.52
49.833	0.00	0.01	0.098	0					0.52
49.917	0.00	0.01	0.098	0					0.52
50.000	0.00	0.01	0.098	0					0.52
50.083	0.00	0.01	0.098	0					0.52
50.167	0.00	0.01	0.098	0					0.52
50.250	0.00	0.01	0.098	0					0.52
50.333	0.00	0.01	0.098	0					0.52
50.417	0.00	0.01	0.098	0					0.52
50.500	0.00	0.01	0.098	0					0.52
50.583	0.00	0.01	0.098	0					0.52
50.667	0.00	0.01	0.097	0					0.52
50.750	0.00	0.01	0.097	0					0.52
50.833	0.00	0.01	0.097	0					0.52
50.917	0.00	0.01	0.097	0					0.52
51.000	0.00	0.01	0.097	0					0.52
51.083	0.00	0.01	0.097	0					0.52
51.167	0.00	0.01	0.097	0					0.52
51.250	0.00	0.01	0.097	0					0.52
51.333	0.00	0.01	0.097	0					0.52
51.417	0.00	0.01	0.097	0					0.52
51.500	0.00	0.01	0.097	0					0.52
51.583	0.00	0.01	0.097	0					0.52

51.667	0.00	0.01	0.097	0					0.52
51.750	0.00	0.01	0.097	0					0.52
51.833	0.00	0.01	0.097	0					0.52
51.917	0.00	0.01	0.097	0					0.52
52.000	0.00	0.01	0.097	0					0.52
52.083	0.00	0.01	0.097	0					0.52
52.167	0.00	0.01	0.097	0					0.52
52.250	0.00	0.01	0.097	0					0.52
52.333	0.00	0.01	0.096	0					0.52
52.417	0.00	0.01	0.096	0					0.52
52.500	0.00	0.01	0.096	0					0.52
52.583	0.00	0.01	0.096	0					0.52
52.667	0.00	0.01	0.096	0					0.52
52.750	0.00	0.01	0.096	0					0.52
52.833	0.00	0.01	0.096	0					0.52
52.917	0.00	0.01	0.096	0					0.52
53.000	0.00	0.01	0.096	0					0.52
53.083	0.00	0.01	0.096	0					0.51
53.167	0.00	0.01	0.096	0					0.51
53.250	0.00	0.01	0.096	0					0.51
53.333	0.00	0.01	0.096	0					0.51
53.417	0.00	0.01	0.096	0					0.51
53.500	0.00	0.01	0.096	0					0.51
53.583	0.00	0.01	0.096	0					0.51
53.667	0.00	0.01	0.096	0					0.51
53.750	0.00	0.01	0.096	0					0.51
53.833	0.00	0.01	0.096	0					0.51
53.917	0.00	0.01	0.096	0					0.51
54.000	0.00	0.01	0.096	0					0.51
54.083	0.00	0.00	0.096	0					0.51
54.167	0.00	0.00	0.096	0					0.51
54.250	0.00	0.00	0.096	0					0.51
54.333	0.00	0.00	0.096	0					0.51
54.417	0.00	0.00	0.096	0					0.51
54.500	0.00	0.00	0.095	0					0.51
54.583	0.00	0.00	0.095	0					0.51
54.667	0.00	0.00	0.095	0					0.51
54.750	0.00	0.00	0.095	0					0.51
54.833	0.00	0.00	0.095	0					0.51
54.917	0.00	0.00	0.095	0					0.51
55.000	0.00	0.00	0.095	0					0.51
55.083	0.00	0.00	0.095	0					0.51
55.167	0.00	0.00	0.095	0					0.51
55.250	0.00	0.00	0.095	0					0.51
55.333	0.00	0.00	0.095	0					0.51
55.417	0.00	0.00	0.095	0					0.51
55.500	0.00	0.00	0.095	0					0.51
55.583	0.00	0.00	0.095	0					0.51
55.667	0.00	0.00	0.095	0					0.51
55.750	0.00	0.00	0.095	0					0.51

55.833	0.00	0.00	0.095	0					0.51
55.917	0.00	0.00	0.095	0					0.51
56.000	0.00	0.00	0.095	0					0.51
56.083	0.00	0.00	0.095	0					0.51
56.167	0.00	0.00	0.095	0					0.51
56.250	0.00	0.00	0.095	0					0.51
56.333	0.00	0.00	0.095	0					0.51
56.417	0.00	0.00	0.095	0					0.51
56.500	0.00	0.00	0.095	0					0.51
56.583	0.00	0.00	0.095	0					0.51
56.667	0.00	0.00	0.095	0					0.51
56.750	0.00	0.00	0.095	0					0.51
56.833	0.00	0.00	0.095	0					0.51
56.917	0.00	0.00	0.095	0					0.51
57.000	0.00	0.00	0.095	0					0.51
57.083	0.00	0.00	0.095	0					0.51
57.167	0.00	0.00	0.095	0					0.51
57.250	0.00	0.00	0.095	0					0.51
57.333	0.00	0.00	0.095	0					0.51
57.417	0.00	0.00	0.095	0					0.51
57.500	0.00	0.00	0.095	0					0.51
57.583	0.00	0.00	0.095	0					0.51
57.667	0.00	0.00	0.095	0					0.51
57.750	0.00	0.00	0.094	0					0.51
57.833	0.00	0.00	0.094	0					0.51
57.917	0.00	0.00	0.094	0					0.51
58.000	0.00	0.00	0.094	0					0.51
58.083	0.00	0.00	0.094	0					0.51
58.167	0.00	0.00	0.094	0					0.51
58.250	0.00	0.00	0.094	0					0.51
58.333	0.00	0.00	0.094	0					0.51
58.417	0.00	0.00	0.094	0					0.51
58.500	0.00	0.00	0.094	0					0.51
58.583	0.00	0.00	0.094	0					0.51
58.667	0.00	0.00	0.094	0					0.51
58.750	0.00	0.00	0.094	0					0.51
58.833	0.00	0.00	0.094	0					0.51
58.917	0.00	0.00	0.094	0					0.51
59.000	0.00	0.00	0.094	0					0.51
59.083	0.00	0.00	0.094	0					0.51
59.167	0.00	0.00	0.094	0					0.51
59.250	0.00	0.00	0.094	0					0.51
59.333	0.00	0.00	0.094	0					0.51
59.417	0.00	0.00	0.094	0					0.51
59.500	0.00	0.00	0.094	0					0.51
59.583	0.00	0.00	0.094	0					0.51
59.667	0.00	0.00	0.094	0					0.51
59.750	0.00	0.00	0.094	0					0.51
59.833	0.00	0.00	0.094	0					0.51
59.917	0.00	0.00	0.094	0					0.51

60.000	0.00	0.00	0.094	0					0.51
60.083	0.00	0.00	0.094	0					0.50
60.167	0.00	0.00	0.094	0					0.50
60.250	0.00	0.00	0.094	0					0.50
60.333	0.00	0.00	0.094	0					0.50
60.417	0.00	0.00	0.094	0					0.50
60.500	0.00	0.00	0.094	0					0.50
60.583	0.00	0.00	0.094	0					0.50
60.667	0.00	0.00	0.094	0					0.50
60.750	0.00	0.00	0.094	0					0.50
60.833	0.00	0.00	0.094	0					0.50
60.917	0.00	0.00	0.094	0					0.50
61.000	0.00	0.00	0.094	0					0.50
61.083	0.00	0.00	0.094	0					0.50
61.167	0.00	0.00	0.094	0					0.50
61.250	0.00	0.00	0.094	0					0.50
61.333	0.00	0.00	0.094	0					0.50
61.417	0.00	0.00	0.094	0					0.50
61.500	0.00	0.00	0.094	0					0.50
61.583	0.00	0.00	0.094	0					0.50
61.667	0.00	0.00	0.094	0					0.50
61.750	0.00	0.00	0.094	0					0.50
61.833	0.00	0.00	0.094	0					0.50
61.917	0.00	0.00	0.094	0					0.50
62.000	0.00	0.00	0.094	0					0.50
62.083	0.00	0.00	0.094	0					0.50
62.167	0.00	0.00	0.094	0					0.50
62.250	0.00	0.00	0.094	0					0.50
62.333	0.00	0.00	0.094	0					0.50
62.417	0.00	0.00	0.094	0					0.50
62.500	0.00	0.00	0.094	0					0.50
62.583	0.00	0.00	0.094	0					0.50
62.667	0.00	0.00	0.094	0					0.50
62.750	0.00	0.00	0.094	0					0.50
62.833	0.00	0.00	0.094	0					0.50
62.917	0.00	0.00	0.094	0					0.50
63.000	0.00	0.00	0.094	0					0.50
63.083	0.00	0.00	0.094	0					0.50
63.167	0.00	0.00	0.094	0					0.50
63.250	0.00	0.00	0.094	0					0.50
63.333	0.00	0.00	0.094	0					0.50
63.417	0.00	0.00	0.094	0					0.50
63.500	0.00	0.00	0.094	0					0.50
63.583	0.00	0.00	0.094	0					0.50
63.667	0.00	0.00	0.094	0					0.50
63.750	0.00	0.00	0.094	0					0.50
63.833	0.00	0.00	0.094	0					0.50
63.917	0.00	0.00	0.094	0					0.50
64.000	0.00	0.00	0.094	0					0.50
64.083	0.00	0.00	0.094	0					0.50

64.167	0.00	0.00	0.094	0					0.50
64.250	0.00	0.00	0.094	0					0.50
64.333	0.00	0.00	0.094	0					0.50
64.417	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 773

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.557 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 1 5YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH245.rte
*****HYDROGRAPH DATA*****
Number of intervals = 291
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.838 (CFS)
Total volume = 1.117 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 291

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.5	0.92	1.38	1.84	Depth (Ft.)
0.083	0.06	0.00	0.000	O					0.00
0.167	0.10	0.00	0.001	O I					0.00
0.250	0.11	0.00	0.001	O I					0.01
0.333	0.14	0.00	0.002	O I					0.01
0.417	0.16	0.00	0.003	O I					0.02
0.500	0.16	0.00	0.004	O I					0.02
0.583	0.16	0.00	0.005	O I					0.03
0.667	0.16	0.00	0.007	O I					0.04
0.750	0.16	0.00	0.008	O I					0.04
0.833	0.19	0.00	0.009	O I					0.05
0.917	0.21	0.00	0.010	O I					0.06
1.000	0.22	0.00	0.012	O I					0.06
1.083	0.19	0.00	0.013	O I					0.07
1.167	0.17	0.00	0.014	O I					0.08
1.250	0.16	0.00	0.016	O I					0.08
1.333	0.16	0.00	0.017	O I					0.09
1.417	0.16	0.00	0.018	O I					0.10
1.500	0.16	0.00	0.019	O I					0.10
1.583	0.16	0.00	0.020	O I					0.11

1.667	0.16	0.00	0.021	0	I					0.11
1.750	0.16	0.00	0.022	0	I					0.12
1.833	0.19	0.00	0.023	0	I					0.13
1.917	0.21	0.00	0.025	0	I					0.13
2.000	0.22	0.00	0.026	0	I					0.14
2.083	0.22	0.00	0.028	0	I					0.15
2.167	0.22	0.00	0.029	0	I					0.16
2.250	0.22	0.00	0.031	0	I					0.17
2.333	0.22	0.00	0.032	0	I					0.17
2.417	0.22	0.00	0.034	0	I					0.18
2.500	0.22	0.00	0.035	0	I					0.19
2.583	0.24	0.00	0.037	0	I					0.20
2.667	0.27	0.00	0.039	0	I					0.21
2.750	0.27	0.00	0.040	0	I					0.22
2.833	0.27	0.00	0.042	0	I					0.23
2.917	0.27	0.00	0.044	0	I					0.24
3.000	0.27	0.00	0.046	0	I					0.25
3.083	0.27	0.00	0.048	0	I					0.26
3.167	0.27	0.00	0.050	0	I					0.27
3.250	0.27	0.00	0.052	0	I					0.28
3.333	0.27	0.00	0.053	0	I					0.29
3.417	0.27	0.00	0.055	0	I					0.30
3.500	0.27	0.00	0.057	0	I					0.31
3.583	0.27	0.00	0.059	0	I					0.32
3.667	0.27	0.00	0.061	0	I					0.33
3.750	0.27	0.00	0.063	0	I					0.34
3.833	0.30	0.00	0.065	0	I					0.35
3.917	0.32	0.00	0.067	0	I					0.36
4.000	0.32	0.00	0.069	0	I					0.37
4.083	0.32	0.00	0.071	0	I					0.38
4.167	0.32	0.00	0.074	0	I					0.40
4.250	0.32	0.00	0.076	0	I					0.41
4.333	0.35	0.00	0.078	0	I					0.42
4.417	0.37	0.00	0.081	0	I					0.43
4.500	0.38	0.00	0.083	0	I					0.45
4.583	0.38	0.00	0.086	0	I					0.46
4.667	0.38	0.00	0.088	0	I					0.48
4.750	0.38	0.00	0.091	0	I					0.49
4.833	0.41	0.00	0.094	0	I					0.50
4.917	0.43	0.01	0.097	0	I					0.52
5.000	0.43	0.01	0.099	0	I					0.53
5.083	0.38	0.02	0.102	0	I					0.54
5.167	0.33	0.02	0.104	0	I					0.55
5.250	0.33	0.03	0.107	0	I					0.56
5.333	0.35	0.03	0.109	0	I					0.58
5.417	0.37	0.03	0.111	0	I					0.59
5.500	0.38	0.04	0.113	0	I					0.60
5.583	0.41	0.04	0.116	0	I					0.61
5.667	0.43	0.05	0.118	0	I					0.62
5.750	0.43	0.05	0.121	0	I					0.63

5.833	0.43	0.06	0.123	0	I				0.65
5.917	0.43	0.06	0.126	0	I				0.66
6.000	0.43	0.07	0.129	0	I				0.67
6.083	0.46	0.07	0.131	0	I				0.68
6.167	0.48	0.08	0.134	0	I				0.70
6.250	0.49	0.08	0.137	0	I				0.71
6.333	0.49	0.09	0.139	0	I				0.72
6.417	0.49	0.09	0.142	0	I				0.74
6.500	0.49	0.10	0.145	0	I				0.75
6.583	0.51	0.10	0.148	0	I				0.76
6.667	0.54	0.11	0.151	0	I				0.78
6.750	0.54	0.11	0.153	0	I				0.79
6.833	0.54	0.12	0.156	0	I				0.80
6.917	0.54	0.13	0.159	0	I				0.82
7.000	0.54	0.13	0.162	0	I				0.83
7.083	0.54	0.14	0.165	0	I				0.85
7.167	0.54	0.14	0.168	0	I				0.86
7.250	0.54	0.15	0.170	0	I				0.87
7.333	0.57	0.15	0.173	0	I				0.89
7.417	0.59	0.16	0.176	0	I				0.90
7.500	0.59	0.16	0.179	0	I				0.91
7.583	0.62	0.17	0.182	0	I				0.93
7.667	0.64	0.17	0.185	0	I				0.94
7.750	0.65	0.18	0.189	0	I				0.96
7.833	0.68	0.19	0.192	0	I				0.98
7.917	0.70	0.19	0.195	0	I				0.99
8.000	0.70	0.20	0.199	0	I				1.01
8.083	0.76	0.20	0.202	0	I				1.02
8.167	0.80	0.20	0.206	0	I				1.04
8.250	0.81	0.20	0.211	0	I				1.06
8.333	0.81	0.20	0.215	0	I				1.08
8.417	0.81	0.20	0.219	0	I				1.10
8.500	0.81	0.20	0.223	0	I				1.11
8.583	0.84	0.20	0.228	0	I				1.13
8.667	0.86	0.20	0.232	0	I				1.15
8.750	0.86	0.20	0.237	0	I				1.17
8.833	0.89	0.20	0.241	0	I				1.19
8.917	0.91	0.20	0.246	0	I				1.21
9.000	0.92	0.20	0.251	0	I				1.23
9.083	0.97	0.20	0.256	0	I				1.26
9.167	1.02	0.20	0.262	0	I				1.28
9.250	1.03	0.20	0.268	0	I				1.30
9.333	1.05	0.20	0.273	0	I				1.33
9.417	1.08	0.20	0.279	0	I				1.36
9.500	1.08	0.20	0.285	0	I				1.38
9.583	1.11	0.20	0.292	0	I				1.41
9.667	1.13	0.20	0.298	0	I				1.44
9.750	1.13	0.20	0.304	0	I				1.46
9.833	1.16	0.20	0.311	0	I				1.49
9.917	1.18	0.20	0.318	0	I				1.52

10.000	1.19	0.20	0.325	0			I		1.55
10.083	0.99	0.20	0.331	0			I		1.57
10.167	0.84	0.20	0.336	0		I			1.59
10.250	0.82	0.20	0.340	0		I			1.61
10.333	0.81	0.20	0.344	0		I			1.62
10.417	0.81	0.20	0.349	0		I			1.64
10.500	0.81	0.20	0.353	0		I			1.66
10.583	0.95	0.20	0.358	0			I		1.68
10.667	1.06	0.20	0.363	0			I		1.70
10.750	1.08	0.20	0.369	0			I		1.72
10.833	1.08	0.20	0.375	0			I		1.74
10.917	1.08	0.20	0.381	0			I		1.77
11.000	1.08	0.20	0.387	0			I		1.79
11.083	1.05	0.20	0.393	0			I		1.82
11.167	1.03	0.20	0.399	0			I		1.84
11.250	1.03	0.20	0.405	0			I		1.86
11.333	1.03	0.20	0.411	0			I		1.88
11.417	1.03	0.20	0.416	0			I		1.91
11.500	1.03	0.20	0.422	0			I		1.93
11.583	0.97	0.20	0.428	0			I		1.95
11.667	0.93	0.20	0.433	0			I		1.97
11.750	0.92	0.20	0.438	0			I		1.99
11.833	0.95	0.20	0.443	0			I		2.01
11.917	0.97	0.20	0.448	0			I		2.03
12.000	0.97	0.20	0.453	0			I		2.05
12.083	1.17	0.20	0.459	0			I		2.07
12.167	1.32	0.20	0.467	0			I		2.10
12.250	1.34	0.20	0.475	0			I		2.12
12.333	1.38	0.20	0.483	0			I		2.15
12.417	1.40	0.20	0.491	0			I		2.18
12.500	1.40	0.20	0.499	0			I		2.21
12.583	1.46	0.20	0.508	0			I		2.24
12.667	1.50	0.20	0.516	0			I		2.27
12.750	1.51	0.20	0.525	0			I		2.31
12.833	1.54	0.20	0.535	0			I		2.34
12.917	1.56	0.20	0.544	0			I		2.37
13.000	1.57	0.20	0.553	0			I		2.41
13.083	1.71	0.20	0.563	0			I		2.44
13.167	1.81	0.20	0.574	0			I		2.48
13.250	1.83	0.20	0.585	0			I		2.52
13.333	1.84	0.20	0.597	0			I		2.55
13.417	1.84	0.20	0.608	0			I		2.59
13.500	1.84	0.20	0.619	0			I		2.63
13.583	1.53	0.20	0.629	0			I		2.66
13.667	1.30	0.20	0.638	0			I		2.69
13.750	1.25	0.20	0.645	0			I		2.71
13.833	1.24	0.20	0.653	0			I		2.74
13.917	1.24	0.20	0.660	0			I		2.76
14.000	1.24	0.20	0.667	0			I		2.79
14.083	1.35	0.20	0.675	0			I		2.81

14.167	1.44	0.20	0.683	0			I	2.84
14.250	1.46	0.20	0.691	0			I	2.87
14.333	1.43	0.20	0.700	0			I	2.89
14.417	1.41	0.20	0.708	0			I	2.92
14.500	1.41	0.20	0.717	0			I	2.95
14.583	1.41	0.20	0.725	0			I	2.98
14.667	1.41	0.20	0.733	0			I	3.00
14.750	1.41	0.20	0.742	0			I	3.03
14.833	1.38	0.20	0.750	0			I	3.05
14.917	1.36	0.20	0.758	0			I	3.08
15.000	1.35	0.20	0.766	0			I	3.10
15.083	1.32	0.20	0.774	0			I	3.13
15.167	1.30	0.20	0.782	0			I	3.15
15.250	1.30	0.20	0.789	0			I	3.17
15.333	1.27	0.20	0.797	0			I	3.20
15.417	1.25	0.20	0.804	0			I	3.22
15.500	1.24	0.20	0.811	0			I	3.24
15.583	1.13	0.20	0.818	0			I	3.26
15.667	1.05	0.20	0.824	0			I	3.28
15.750	1.03	0.20	0.830	0			I	3.30
15.833	1.03	0.20	0.836	0			I	3.31
15.917	1.03	0.20	0.841	0			I	3.33
16.000	1.03	0.20	0.847	0			I	3.35
16.083	0.61	0.20	0.852	0	I			3.36
16.167	0.29	0.20	0.853	0 I				3.37
16.250	0.23	0.20	0.854	OI				3.37
16.333	0.22	0.20	0.854	0				3.37
16.417	0.22	0.20	0.854	0				3.37
16.500	0.22	0.20	0.854	0				3.37
16.583	0.19	0.20	0.854	0				3.37
16.667	0.17	0.20	0.854	IO				3.37
16.750	0.16	0.20	0.854	IO				3.37
16.833	0.16	0.20	0.854	IO				3.37
16.917	0.16	0.20	0.853	IO				3.37
17.000	0.16	0.20	0.853	IO				3.37
17.083	0.22	0.20	0.853	0				3.37
17.167	0.26	0.20	0.853	OI				3.37
17.250	0.27	0.20	0.854	OI				3.37
17.333	0.27	0.20	0.854	OI				3.37
17.417	0.27	0.20	0.855	OI				3.37
17.500	0.27	0.20	0.855	OI				3.37
17.583	0.27	0.20	0.856	OI				3.38
17.667	0.27	0.20	0.856	OI				3.38
17.750	0.27	0.20	0.857	OI				3.38
17.833	0.24	0.20	0.857	OI				3.38
17.917	0.22	0.20	0.858	0				3.38
18.000	0.22	0.20	0.858	0				3.38
18.083	0.22	0.20	0.858	0				3.38
18.167	0.22	0.20	0.858	0				3.38
18.250	0.22	0.20	0.858	0				3.38

18.333	0.22	0.20	0.858	0					3.38
18.417	0.22	0.20	0.858	0					3.38
18.500	0.22	0.20	0.859	0					3.38
18.583	0.19	0.20	0.859	0					3.38
18.667	0.17	0.20	0.858	IO					3.38
18.750	0.16	0.20	0.858	IO					3.38
18.833	0.13	0.20	0.858	IO					3.38
18.917	0.11	0.20	0.857	I 0					3.38
19.000	0.11	0.20	0.857	I 0					3.38
19.083	0.14	0.20	0.856	IO					3.38
19.167	0.16	0.20	0.856	IO					3.38
19.250	0.16	0.20	0.856	IO					3.37
19.333	0.19	0.20	0.856	0					3.37
19.417	0.21	0.20	0.856	0					3.37
19.500	0.22	0.20	0.856	0					3.37
19.583	0.19	0.20	0.856	0					3.38
19.667	0.17	0.20	0.856	IO					3.37
19.750	0.16	0.20	0.855	IO					3.37
19.833	0.13	0.20	0.855	IO					3.37
19.917	0.11	0.20	0.855	I 0					3.37
20.000	0.11	0.20	0.854	I 0					3.37
20.083	0.14	0.20	0.853	IO					3.37
20.167	0.16	0.20	0.853	IO					3.37
20.250	0.16	0.20	0.853	IO					3.37
20.333	0.16	0.20	0.853	IO					3.37
20.417	0.16	0.20	0.852	IO					3.36
20.500	0.16	0.20	0.852	IO					3.36
20.583	0.16	0.20	0.852	IO					3.36
20.667	0.16	0.20	0.852	IO					3.36
20.750	0.16	0.20	0.851	IO					3.36
20.833	0.13	0.20	0.851	IO					3.36
20.917	0.11	0.20	0.851	I 0					3.36
21.000	0.11	0.20	0.850	I 0					3.36
21.083	0.14	0.20	0.850	IO					3.36
21.167	0.16	0.20	0.849	IO					3.36
21.250	0.16	0.20	0.849	IO					3.35
21.333	0.13	0.20	0.849	IO					3.35
21.417	0.11	0.20	0.848	I 0					3.35
21.500	0.11	0.20	0.848	I 0					3.35
21.583	0.14	0.20	0.847	IO					3.35
21.667	0.16	0.20	0.847	IO					3.35
21.750	0.16	0.20	0.846	IO					3.35
21.833	0.13	0.20	0.846	IO					3.35
21.917	0.11	0.20	0.846	I 0					3.34
22.000	0.11	0.20	0.845	I 0					3.34
22.083	0.14	0.20	0.844	IO					3.34
22.167	0.16	0.20	0.844	IO					3.34
22.250	0.16	0.20	0.844	IO					3.34
22.333	0.13	0.20	0.844	IO					3.34
22.417	0.11	0.20	0.843	I 0					3.34

22.500	0.11	0.20	0.842	I 0					3.33
22.583	0.11	0.20	0.842	I 0					3.33
22.667	0.11	0.20	0.841	I 0					3.33
22.750	0.11	0.20	0.841	I 0					3.33
22.833	0.11	0.20	0.840	I 0					3.33
22.917	0.11	0.20	0.839	I 0					3.33
23.000	0.11	0.20	0.839	I 0					3.32
23.083	0.11	0.20	0.838	I 0					3.32
23.167	0.11	0.20	0.838	I 0					3.32
23.250	0.11	0.20	0.837	I 0					3.32
23.333	0.11	0.20	0.836	I 0					3.32
23.417	0.11	0.20	0.836	I 0					3.31
23.500	0.11	0.20	0.835	I 0					3.31
23.583	0.11	0.20	0.835	I 0					3.31
23.667	0.11	0.20	0.834	I 0					3.31
23.750	0.11	0.20	0.833	I 0					3.31
23.833	0.11	0.20	0.833	I 0					3.31
23.917	0.11	0.20	0.832	I 0					3.30
24.000	0.11	0.20	0.832	I 0					3.30
24.083	0.05	0.20	0.831	I 0					3.30
24.167	0.01	0.20	0.830	I 0					3.30
24.250	0.00	0.20	0.828	I 0					3.29
24.333	0.00	0.20	0.827	I 0					3.29
24.417	0.00	0.20	0.826	I 0					3.28
24.500	0.00	0.20	0.824	I 0					3.28
24.583	0.00	0.20	0.823	I 0					3.28
24.667	0.00	0.20	0.822	I 0					3.27
24.750	0.00	0.20	0.820	I 0					3.27
24.833	0.00	0.20	0.819	I 0					3.26
24.917	0.00	0.20	0.817	I 0					3.26
25.000	0.00	0.20	0.816	I 0					3.25
25.083	0.00	0.20	0.815	I 0					3.25
25.167	0.00	0.20	0.813	I 0					3.25
25.250	0.00	0.20	0.812	I 0					3.24
25.333	0.00	0.20	0.811	I 0					3.24
25.417	0.00	0.20	0.809	I 0					3.23
25.500	0.00	0.20	0.808	I 0					3.23
25.583	0.00	0.20	0.807	I 0					3.23
25.667	0.00	0.20	0.805	I 0					3.22
25.750	0.00	0.20	0.804	I 0					3.22
25.833	0.00	0.20	0.803	I 0					3.21
25.917	0.00	0.20	0.801	I 0					3.21
26.000	0.00	0.20	0.800	I 0					3.21
26.083	0.00	0.20	0.799	I 0					3.20
26.167	0.00	0.20	0.797	I 0					3.20
26.250	0.00	0.20	0.796	I 0					3.19
26.333	0.00	0.20	0.794	I 0					3.19
26.417	0.00	0.20	0.793	I 0					3.19
26.500	0.00	0.20	0.792	I 0					3.18
26.583	0.00	0.20	0.790	I 0					3.18

26.667	0.00	0.20	0.789	I	0					3.17
26.750	0.00	0.20	0.788	I	0					3.17
26.833	0.00	0.20	0.786	I	0					3.16
26.917	0.00	0.20	0.785	I	0					3.16
27.000	0.00	0.20	0.784	I	0					3.16
27.083	0.00	0.20	0.782	I	0					3.15
27.167	0.00	0.20	0.781	I	0					3.15
27.250	0.00	0.20	0.780	I	0					3.14
27.333	0.00	0.20	0.778	I	0					3.14
27.417	0.00	0.20	0.777	I	0					3.14
27.500	0.00	0.20	0.776	I	0					3.13
27.583	0.00	0.20	0.774	I	0					3.13
27.667	0.00	0.20	0.773	I	0					3.12
27.750	0.00	0.20	0.772	I	0					3.12
27.833	0.00	0.20	0.770	I	0					3.12
27.917	0.00	0.20	0.769	I	0					3.11
28.000	0.00	0.20	0.767	I	0					3.11
28.083	0.00	0.20	0.766	I	0					3.10
28.167	0.00	0.20	0.765	I	0					3.10
28.250	0.00	0.20	0.763	I	0					3.10
28.333	0.00	0.20	0.762	I	0					3.09
28.417	0.00	0.20	0.761	I	0					3.09
28.500	0.00	0.20	0.759	I	0					3.08
28.583	0.00	0.20	0.758	I	0					3.08
28.667	0.00	0.20	0.757	I	0					3.07
28.750	0.00	0.20	0.755	I	0					3.07
28.833	0.00	0.20	0.754	I	0					3.07
28.917	0.00	0.20	0.753	I	0					3.06
29.000	0.00	0.20	0.751	I	0					3.06
29.083	0.00	0.20	0.750	I	0					3.05
29.167	0.00	0.20	0.749	I	0					3.05
29.250	0.00	0.20	0.747	I	0					3.05
29.333	0.00	0.20	0.746	I	0					3.04
29.417	0.00	0.20	0.744	I	0					3.04
29.500	0.00	0.20	0.743	I	0					3.03
29.583	0.00	0.20	0.742	I	0					3.03
29.667	0.00	0.20	0.740	I	0					3.03
29.750	0.00	0.20	0.739	I	0					3.02
29.833	0.00	0.20	0.738	I	0					3.02
29.917	0.00	0.20	0.736	I	0					3.01
30.000	0.00	0.20	0.735	I	0					3.01
30.083	0.00	0.20	0.734	I	0					3.00
30.167	0.00	0.20	0.732	I	0					3.00
30.250	0.00	0.20	0.731	I	0					3.00
30.333	0.00	0.20	0.730	I	0					2.99
30.417	0.00	0.20	0.728	I	0					2.99
30.500	0.00	0.20	0.727	I	0					2.98
30.583	0.00	0.20	0.726	I	0					2.98
30.667	0.00	0.20	0.724	I	0					2.97
30.750	0.00	0.20	0.723	I	0					2.97

30.833	0.00	0.20	0.721	I	0					2.97
30.917	0.00	0.20	0.720	I	0					2.96
31.000	0.00	0.20	0.719	I	0					2.96
31.083	0.00	0.20	0.717	I	0					2.95
31.167	0.00	0.20	0.716	I	0					2.95
31.250	0.00	0.20	0.715	I	0					2.94
31.333	0.00	0.20	0.713	I	0					2.94
31.417	0.00	0.20	0.712	I	0					2.93
31.500	0.00	0.20	0.711	I	0					2.93
31.583	0.00	0.20	0.709	I	0					2.93
31.667	0.00	0.20	0.708	I	0					2.92
31.750	0.00	0.20	0.707	I	0					2.92
31.833	0.00	0.20	0.705	I	0					2.91
31.917	0.00	0.20	0.704	I	0					2.91
32.000	0.00	0.20	0.703	I	0					2.90
32.083	0.00	0.20	0.701	I	0					2.90
32.167	0.00	0.20	0.700	I	0					2.89
32.250	0.00	0.20	0.698	I	0					2.89
32.333	0.00	0.20	0.697	I	0					2.89
32.417	0.00	0.20	0.696	I	0					2.88
32.500	0.00	0.20	0.694	I	0					2.88
32.583	0.00	0.20	0.693	I	0					2.87
32.667	0.00	0.20	0.692	I	0					2.87
32.750	0.00	0.20	0.690	I	0					2.86
32.833	0.00	0.20	0.689	I	0					2.86
32.917	0.00	0.20	0.688	I	0					2.85
33.000	0.00	0.20	0.686	I	0					2.85
33.083	0.00	0.20	0.685	I	0					2.85
33.167	0.00	0.20	0.684	I	0					2.84
33.250	0.00	0.20	0.682	I	0					2.84
33.333	0.00	0.20	0.681	I	0					2.83
33.417	0.00	0.20	0.680	I	0					2.83
33.500	0.00	0.20	0.678	I	0					2.82
33.583	0.00	0.20	0.677	I	0					2.82
33.667	0.00	0.20	0.675	I	0					2.81
33.750	0.00	0.20	0.674	I	0					2.81
33.833	0.00	0.20	0.673	I	0					2.81
33.917	0.00	0.20	0.671	I	0					2.80
34.000	0.00	0.20	0.670	I	0					2.80
34.083	0.00	0.20	0.669	I	0					2.79
34.167	0.00	0.20	0.667	I	0					2.79
34.250	0.00	0.20	0.666	I	0					2.78
34.333	0.00	0.20	0.665	I	0					2.78
34.417	0.00	0.20	0.663	I	0					2.77
34.500	0.00	0.20	0.662	I	0					2.77
34.583	0.00	0.20	0.661	I	0					2.77
34.667	0.00	0.20	0.659	I	0					2.76
34.750	0.00	0.20	0.658	I	0					2.76
34.833	0.00	0.20	0.657	I	0					2.75
34.917	0.00	0.20	0.655	I	0					2.75

35.000	0.00	0.20	0.654	I	0					2.74
35.083	0.00	0.20	0.653	I	0					2.74
35.167	0.00	0.20	0.651	I	0					2.73
35.250	0.00	0.20	0.650	I	0					2.73
35.333	0.00	0.20	0.648	I	0					2.73
35.417	0.00	0.20	0.647	I	0					2.72
35.500	0.00	0.20	0.646	I	0					2.72
35.583	0.00	0.20	0.644	I	0					2.71
35.667	0.00	0.20	0.643	I	0					2.71
35.750	0.00	0.20	0.642	I	0					2.70
35.833	0.00	0.20	0.640	I	0					2.70
35.917	0.00	0.20	0.639	I	0					2.69
36.000	0.00	0.20	0.638	I	0					2.69
36.083	0.00	0.20	0.636	I	0					2.69
36.167	0.00	0.20	0.635	I	0					2.68
36.250	0.00	0.20	0.634	I	0					2.68
36.333	0.00	0.20	0.632	I	0					2.67
36.417	0.00	0.20	0.631	I	0					2.67
36.500	0.00	0.20	0.630	I	0					2.66
36.583	0.00	0.20	0.628	I	0					2.66
36.667	0.00	0.20	0.627	I	0					2.65
36.750	0.00	0.20	0.625	I	0					2.65
36.833	0.00	0.20	0.624	I	0					2.65
36.917	0.00	0.20	0.623	I	0					2.64
37.000	0.00	0.20	0.621	I	0					2.64
37.083	0.00	0.20	0.620	I	0					2.63
37.167	0.00	0.20	0.619	I	0					2.63
37.250	0.00	0.20	0.617	I	0					2.62
37.333	0.00	0.20	0.616	I	0					2.62
37.417	0.00	0.20	0.615	I	0					2.61
37.500	0.00	0.20	0.613	I	0					2.61
37.583	0.00	0.20	0.612	I	0					2.61
37.667	0.00	0.20	0.611	I	0					2.60
37.750	0.00	0.20	0.609	I	0					2.60
37.833	0.00	0.20	0.608	I	0					2.59
37.917	0.00	0.20	0.607	I	0					2.59
38.000	0.00	0.20	0.605	I	0					2.58
38.083	0.00	0.20	0.604	I	0					2.58
38.167	0.00	0.20	0.602	I	0					2.57
38.250	0.00	0.20	0.601	I	0					2.57
38.333	0.00	0.20	0.600	I	0					2.57
38.417	0.00	0.20	0.598	I	0					2.56
38.500	0.00	0.20	0.597	I	0					2.56
38.583	0.00	0.20	0.596	I	0					2.55
38.667	0.00	0.20	0.594	I	0					2.55
38.750	0.00	0.20	0.593	I	0					2.54
38.833	0.00	0.20	0.592	I	0					2.54
38.917	0.00	0.20	0.590	I	0					2.53
39.000	0.00	0.20	0.589	I	0					2.53
39.083	0.00	0.20	0.588	I	0					2.52

39.167	0.00	0.20	0.586	I	0					2.52
39.250	0.00	0.20	0.585	I	0					2.52
39.333	0.00	0.20	0.584	I	0					2.51
39.417	0.00	0.20	0.582	I	0					2.51
39.500	0.00	0.20	0.581	I	0					2.50
39.583	0.00	0.20	0.579	I	0					2.50
39.667	0.00	0.20	0.578	I	0					2.49
39.750	0.00	0.20	0.577	I	0					2.49
39.833	0.00	0.20	0.575	I	0					2.48
39.917	0.00	0.20	0.574	I	0					2.48
40.000	0.00	0.20	0.573	I	0					2.47
40.083	0.00	0.20	0.571	I	0					2.47
40.167	0.00	0.20	0.570	I	0					2.46
40.250	0.00	0.20	0.569	I	0					2.46
40.333	0.00	0.20	0.567	I	0					2.45
40.417	0.00	0.20	0.566	I	0					2.45
40.500	0.00	0.20	0.565	I	0					2.45
40.583	0.00	0.20	0.563	I	0					2.44
40.667	0.00	0.20	0.562	I	0					2.44
40.750	0.00	0.20	0.561	I	0					2.43
40.833	0.00	0.20	0.559	I	0					2.43
40.917	0.00	0.20	0.558	I	0					2.42
41.000	0.00	0.20	0.556	I	0					2.42
41.083	0.00	0.20	0.555	I	0					2.41
41.167	0.00	0.20	0.554	I	0					2.41
41.250	0.00	0.20	0.552	I	0					2.40
41.333	0.00	0.20	0.551	I	0					2.40
41.417	0.00	0.20	0.550	I	0					2.39
41.500	0.00	0.20	0.548	I	0					2.39
41.583	0.00	0.20	0.547	I	0					2.38
41.667	0.00	0.20	0.546	I	0					2.38
41.750	0.00	0.20	0.544	I	0					2.37
41.833	0.00	0.20	0.543	I	0					2.37
41.917	0.00	0.20	0.542	I	0					2.36
42.000	0.00	0.20	0.540	I	0					2.36
42.083	0.00	0.20	0.539	I	0					2.35
42.167	0.00	0.20	0.538	I	0					2.35
42.250	0.00	0.20	0.536	I	0					2.34
42.333	0.00	0.20	0.535	I	0					2.34
42.417	0.00	0.20	0.534	I	0					2.33
42.500	0.00	0.20	0.532	I	0					2.33
42.583	0.00	0.20	0.531	I	0					2.32
42.667	0.00	0.20	0.529	I	0					2.32
42.750	0.00	0.20	0.528	I	0					2.31
42.833	0.00	0.20	0.527	I	0					2.31
42.917	0.00	0.20	0.525	I	0					2.30
43.000	0.00	0.20	0.524	I	0					2.30
43.083	0.00	0.20	0.523	I	0					2.30
43.167	0.00	0.20	0.521	I	0					2.29
43.250	0.00	0.20	0.520	I	0					2.29

43.333	0.00	0.20	0.519	I	0					2.28
43.417	0.00	0.20	0.517	I	0					2.28
43.500	0.00	0.20	0.516	I	0					2.27
43.583	0.00	0.20	0.515	I	0					2.27
43.667	0.00	0.20	0.513	I	0					2.26
43.750	0.00	0.20	0.512	I	0					2.26
43.833	0.00	0.20	0.511	I	0					2.25
43.917	0.00	0.20	0.509	I	0					2.25
44.000	0.00	0.20	0.508	I	0					2.24
44.083	0.00	0.20	0.506	I	0					2.24
44.167	0.00	0.20	0.505	I	0					2.23
44.250	0.00	0.20	0.504	I	0					2.23
44.333	0.00	0.20	0.502	I	0					2.22
44.417	0.00	0.20	0.501	I	0					2.22
44.500	0.00	0.20	0.500	I	0					2.21
44.583	0.00	0.20	0.498	I	0					2.21
44.667	0.00	0.20	0.497	I	0					2.20
44.750	0.00	0.20	0.496	I	0					2.20
44.833	0.00	0.20	0.494	I	0					2.19
44.917	0.00	0.20	0.493	I	0					2.19
45.000	0.00	0.20	0.492	I	0					2.18
45.083	0.00	0.20	0.490	I	0					2.18
45.167	0.00	0.20	0.489	I	0					2.17
45.250	0.00	0.20	0.488	I	0					2.17
45.333	0.00	0.20	0.486	I	0					2.16
45.417	0.00	0.20	0.485	I	0					2.16
45.500	0.00	0.20	0.483	I	0					2.16
45.583	0.00	0.20	0.482	I	0					2.15
45.667	0.00	0.20	0.481	I	0					2.15
45.750	0.00	0.20	0.479	I	0					2.14
45.833	0.00	0.20	0.478	I	0					2.14
45.917	0.00	0.20	0.477	I	0					2.13
46.000	0.00	0.20	0.475	I	0					2.13
46.083	0.00	0.20	0.474	I	0					2.12
46.167	0.00	0.20	0.473	I	0					2.12
46.250	0.00	0.20	0.471	I	0					2.11
46.333	0.00	0.20	0.470	I	0					2.11
46.417	0.00	0.20	0.469	I	0					2.10
46.500	0.00	0.20	0.467	I	0					2.10
46.583	0.00	0.20	0.466	I	0					2.09
46.667	0.00	0.20	0.465	I	0					2.09
46.750	0.00	0.20	0.463	I	0					2.08
46.833	0.00	0.20	0.462	I	0					2.08
46.917	0.00	0.20	0.460	I	0					2.07
47.000	0.00	0.20	0.459	I	0					2.07
47.083	0.00	0.20	0.458	I	0					2.06
47.167	0.00	0.20	0.456	I	0					2.06
47.250	0.00	0.20	0.455	I	0					2.05
47.333	0.00	0.20	0.454	I	0					2.05
47.417	0.00	0.20	0.452	I	0					2.04

47.500	0.00	0.20	0.451	I	0					2.04
47.583	0.00	0.20	0.450	I	0					2.03
47.667	0.00	0.20	0.448	I	0					2.03
47.750	0.00	0.20	0.447	I	0					2.02
47.833	0.00	0.20	0.446	I	0					2.02
47.917	0.00	0.20	0.444	I	0					2.02
48.000	0.00	0.20	0.443	I	0					2.01
48.083	0.00	0.20	0.442	I	0					2.01
48.167	0.00	0.20	0.440	I	0					2.00
48.250	0.00	0.20	0.439	I	0					2.00
48.333	0.00	0.20	0.437	I	0					1.99
48.417	0.00	0.20	0.436	I	0					1.98
48.500	0.00	0.20	0.435	I	0					1.98
48.583	0.00	0.20	0.433	I	0					1.97
48.667	0.00	0.20	0.432	I	0					1.97
48.750	0.00	0.20	0.431	I	0					1.96
48.833	0.00	0.20	0.429	I	0					1.96
48.917	0.00	0.20	0.428	I	0					1.95
49.000	0.00	0.20	0.427	I	0					1.95
49.083	0.00	0.20	0.425	I	0					1.94
49.167	0.00	0.20	0.424	I	0					1.94
49.250	0.00	0.20	0.423	I	0					1.93
49.333	0.00	0.20	0.421	I	0					1.93
49.417	0.00	0.20	0.420	I	0					1.92
49.500	0.00	0.20	0.419	I	0					1.92
49.583	0.00	0.20	0.417	I	0					1.91
49.667	0.00	0.20	0.416	I	0					1.90
49.750	0.00	0.20	0.415	I	0					1.90
49.833	0.00	0.20	0.413	I	0					1.89
49.917	0.00	0.20	0.412	I	0					1.89
50.000	0.00	0.20	0.410	I	0					1.88
50.083	0.00	0.20	0.409	I	0					1.88
50.167	0.00	0.20	0.408	I	0					1.87
50.250	0.00	0.20	0.406	I	0					1.87
50.333	0.00	0.20	0.405	I	0					1.86
50.417	0.00	0.20	0.404	I	0					1.86
50.500	0.00	0.20	0.402	I	0					1.85
50.583	0.00	0.20	0.401	I	0					1.85
50.667	0.00	0.20	0.400	I	0					1.84
50.750	0.00	0.20	0.398	I	0					1.84
50.833	0.00	0.20	0.397	I	0					1.83
50.917	0.00	0.20	0.396	I	0					1.83
51.000	0.00	0.20	0.394	I	0					1.82
51.083	0.00	0.20	0.393	I	0					1.81
51.167	0.00	0.20	0.392	I	0					1.81
51.250	0.00	0.20	0.390	I	0					1.80
51.333	0.00	0.20	0.389	I	0					1.80
51.417	0.00	0.20	0.387	I	0					1.79
51.500	0.00	0.20	0.386	I	0					1.79
51.583	0.00	0.20	0.385	I	0					1.78

51.667	0.00	0.20	0.383	I	0					1.78
51.750	0.00	0.20	0.382	I	0					1.77
51.833	0.00	0.20	0.381	I	0					1.77
51.917	0.00	0.20	0.379	I	0					1.76
52.000	0.00	0.20	0.378	I	0					1.76
52.083	0.00	0.20	0.377	I	0					1.75
52.167	0.00	0.20	0.375	I	0					1.75
52.250	0.00	0.20	0.374	I	0					1.74
52.333	0.00	0.20	0.373	I	0					1.73
52.417	0.00	0.20	0.371	I	0					1.73
52.500	0.00	0.20	0.370	I	0					1.72
52.583	0.00	0.20	0.369	I	0					1.72
52.667	0.00	0.20	0.367	I	0					1.71
52.750	0.00	0.20	0.366	I	0					1.71
52.833	0.00	0.20	0.364	I	0					1.70
52.917	0.00	0.20	0.363	I	0					1.70
53.000	0.00	0.20	0.362	I	0					1.69
53.083	0.00	0.20	0.360	I	0					1.69
53.167	0.00	0.20	0.359	I	0					1.68
53.250	0.00	0.20	0.358	I	0					1.68
53.333	0.00	0.20	0.356	I	0					1.67
53.417	0.00	0.20	0.355	I	0					1.67
53.500	0.00	0.20	0.354	I	0					1.66
53.583	0.00	0.20	0.352	I	0					1.65
53.667	0.00	0.20	0.351	I	0					1.65
53.750	0.00	0.20	0.350	I	0					1.64
53.833	0.00	0.20	0.348	I	0					1.64
53.917	0.00	0.20	0.347	I	0					1.63
54.000	0.00	0.20	0.346	I	0					1.63
54.083	0.00	0.20	0.344	I	0					1.62
54.167	0.00	0.20	0.343	I	0					1.62
54.250	0.00	0.20	0.341	I	0					1.61
54.333	0.00	0.20	0.340	I	0					1.61
54.417	0.00	0.20	0.339	I	0					1.60
54.500	0.00	0.20	0.337	I	0					1.60
54.583	0.00	0.20	0.336	I	0					1.59
54.667	0.00	0.20	0.335	I	0					1.59
54.750	0.00	0.20	0.333	I	0					1.58
54.833	0.00	0.20	0.332	I	0					1.57
54.917	0.00	0.20	0.331	I	0					1.57
55.000	0.00	0.20	0.329	I	0					1.56
55.083	0.00	0.20	0.328	I	0					1.56
55.167	0.00	0.20	0.327	I	0					1.55
55.250	0.00	0.20	0.325	I	0					1.55
55.333	0.00	0.20	0.324	I	0					1.54
55.417	0.00	0.20	0.323	I	0					1.54
55.500	0.00	0.20	0.321	I	0					1.53
55.583	0.00	0.20	0.320	I	0					1.53
55.667	0.00	0.20	0.318	I	0					1.52
55.750	0.00	0.20	0.317	I	0					1.52

55.833	0.00	0.20	0.316	I	0					1.51
55.917	0.00	0.20	0.314	I	0					1.51
56.000	0.00	0.20	0.313	I	0					1.50
56.083	0.00	0.20	0.312	I	0					1.49
56.167	0.00	0.20	0.310	I	0					1.49
56.250	0.00	0.20	0.309	I	0					1.48
56.333	0.00	0.20	0.308	I	0					1.48
56.417	0.00	0.20	0.306	I	0					1.47
56.500	0.00	0.20	0.305	I	0					1.47
56.583	0.00	0.20	0.304	I	0					1.46
56.667	0.00	0.20	0.302	I	0					1.45
56.750	0.00	0.20	0.301	I	0					1.45
56.833	0.00	0.20	0.300	I	0					1.44
56.917	0.00	0.20	0.298	I	0					1.44
57.000	0.00	0.20	0.297	I	0					1.43
57.083	0.00	0.20	0.296	I	0					1.42
57.167	0.00	0.20	0.294	I	0					1.42
57.250	0.00	0.20	0.293	I	0					1.41
57.333	0.00	0.20	0.291	I	0					1.41
57.417	0.00	0.20	0.290	I	0					1.40
57.500	0.00	0.20	0.289	I	0					1.40
57.583	0.00	0.20	0.287	I	0					1.39
57.667	0.00	0.20	0.286	I	0					1.38
57.750	0.00	0.20	0.285	I	0					1.38
57.833	0.00	0.20	0.283	I	0					1.37
57.917	0.00	0.20	0.282	I	0					1.37
58.000	0.00	0.20	0.281	I	0					1.36
58.083	0.00	0.20	0.279	I	0					1.35
58.167	0.00	0.20	0.278	I	0					1.35
58.250	0.00	0.20	0.277	I	0					1.34
58.333	0.00	0.20	0.275	I	0					1.34
58.417	0.00	0.20	0.274	I	0					1.33
58.500	0.00	0.20	0.273	I	0					1.33
58.583	0.00	0.20	0.271	I	0					1.32
58.667	0.00	0.20	0.270	I	0					1.31
58.750	0.00	0.20	0.268	I	0					1.31
58.833	0.00	0.20	0.267	I	0					1.30
58.917	0.00	0.20	0.266	I	0					1.30
59.000	0.00	0.20	0.264	I	0					1.29
59.083	0.00	0.20	0.263	I	0					1.28
59.167	0.00	0.20	0.262	I	0					1.28
59.250	0.00	0.20	0.260	I	0					1.27
59.333	0.00	0.20	0.259	I	0					1.27
59.417	0.00	0.20	0.258	I	0					1.26
59.500	0.00	0.20	0.256	I	0					1.26
59.583	0.00	0.20	0.255	I	0					1.25
59.667	0.00	0.20	0.254	I	0					1.24
59.750	0.00	0.20	0.252	I	0					1.24
59.833	0.00	0.20	0.251	I	0					1.23
59.917	0.00	0.20	0.250	I	0					1.23

60.000	0.00	0.20	0.248	I	0					1.22
60.083	0.00	0.20	0.247	I	0					1.21
60.167	0.00	0.20	0.245	I	0					1.21
60.250	0.00	0.20	0.244	I	0					1.20
60.333	0.00	0.20	0.243	I	0					1.20
60.417	0.00	0.20	0.241	I	0					1.19
60.500	0.00	0.20	0.240	I	0					1.19
60.583	0.00	0.20	0.239	I	0					1.18
60.667	0.00	0.20	0.237	I	0					1.17
60.750	0.00	0.20	0.236	I	0					1.17
60.833	0.00	0.20	0.235	I	0					1.16
60.917	0.00	0.20	0.233	I	0					1.16
61.000	0.00	0.20	0.232	I	0					1.15
61.083	0.00	0.20	0.231	I	0					1.14
61.167	0.00	0.20	0.229	I	0					1.14
61.250	0.00	0.20	0.228	I	0					1.13
61.333	0.00	0.20	0.227	I	0					1.13
61.417	0.00	0.20	0.225	I	0					1.12
61.500	0.00	0.20	0.224	I	0					1.12
61.583	0.00	0.20	0.222	I	0					1.11
61.667	0.00	0.20	0.221	I	0					1.10
61.750	0.00	0.20	0.220	I	0					1.10
61.833	0.00	0.20	0.218	I	0					1.09
61.917	0.00	0.20	0.217	I	0					1.09
62.000	0.00	0.20	0.216	I	0					1.08
62.083	0.00	0.20	0.214	I	0					1.07
62.167	0.00	0.20	0.213	I	0					1.07
62.250	0.00	0.20	0.212	I	0					1.06
62.333	0.00	0.20	0.210	I	0					1.06
62.417	0.00	0.20	0.209	I	0					1.05
62.500	0.00	0.20	0.208	I	0					1.05
62.583	0.00	0.20	0.206	I	0					1.04
62.667	0.00	0.20	0.205	I	0					1.03
62.750	0.00	0.20	0.204	I	0					1.03
62.833	0.00	0.20	0.202	I	0					1.02
62.917	0.00	0.20	0.201	I	0					1.02
63.000	0.00	0.20	0.199	I	0					1.01
63.083	0.00	0.20	0.198	I	0					1.00
63.167	0.00	0.20	0.197	I	0					1.00
63.250	0.00	0.19	0.195	I	0					0.99
63.333	0.00	0.19	0.194	I	0					0.99
63.417	0.00	0.19	0.193	I	0					0.98
63.500	0.00	0.19	0.192	I	0					0.97
63.583	0.00	0.18	0.190	I	0					0.97
63.667	0.00	0.18	0.189	I	0					0.96
63.750	0.00	0.18	0.188	I	0					0.96
63.833	0.00	0.18	0.187	I	0					0.95
63.917	0.00	0.17	0.185	I	0					0.94
64.000	0.00	0.17	0.184	I	0					0.94
64.083	0.00	0.17	0.183	I	0					0.93

64.167	0.00	0.17	0.182	I 0					0.93
64.250	0.00	0.17	0.181	I 0					0.92
64.333	0.00	0.16	0.180	I 0					0.92
64.417	0.00	0.16	0.178	I 0					0.91
64.500	0.00	0.16	0.177	I 0					0.91
64.583	0.00	0.16	0.176	I 0					0.90
64.667	0.00	0.16	0.175	I 0					0.89
64.750	0.00	0.15	0.174	I 0					0.89
64.833	0.00	0.15	0.173	I 0					0.88
64.917	0.00	0.15	0.172	I 0					0.88
65.000	0.00	0.15	0.171	I 0					0.87
65.083	0.00	0.15	0.170	I 0					0.87
65.167	0.00	0.14	0.169	I 0					0.87
65.250	0.00	0.14	0.168	I 0					0.86
65.333	0.00	0.14	0.167	I 0					0.86
65.417	0.00	0.14	0.166	I 0					0.85
65.500	0.00	0.14	0.165	I 0					0.85
65.583	0.00	0.13	0.164	I 0					0.84
65.667	0.00	0.13	0.163	I 0					0.84
65.750	0.00	0.13	0.162	I 0					0.83
65.833	0.00	0.13	0.161	I 0					0.83
65.917	0.00	0.13	0.161	I 0					0.82
66.000	0.00	0.13	0.160	I 0					0.82
66.083	0.00	0.12	0.159	I 0					0.82
66.167	0.00	0.12	0.158	I 0					0.81
66.250	0.00	0.12	0.157	I 0					0.81
66.333	0.00	0.12	0.156	I 0					0.80
66.417	0.00	0.12	0.156	I 0					0.80
66.500	0.00	0.12	0.155	I 0					0.80
66.583	0.00	0.11	0.154	I 0					0.79
66.667	0.00	0.11	0.153	IO					0.79
66.750	0.00	0.11	0.152	IO					0.79
66.833	0.00	0.11	0.152	IO					0.78
66.917	0.00	0.11	0.151	IO					0.78
67.000	0.00	0.11	0.150	IO					0.77
67.083	0.00	0.11	0.149	IO					0.77
67.167	0.00	0.10	0.149	IO					0.77
67.250	0.00	0.10	0.148	IO					0.76
67.333	0.00	0.10	0.147	IO					0.76
67.417	0.00	0.10	0.146	IO					0.76
67.500	0.00	0.10	0.146	IO					0.75
67.583	0.00	0.10	0.145	IO					0.75
67.667	0.00	0.10	0.144	IO					0.75
67.750	0.00	0.10	0.144	IO					0.74
67.833	0.00	0.09	0.143	IO					0.74
67.917	0.00	0.09	0.142	IO					0.74
68.000	0.00	0.09	0.142	IO					0.73
68.083	0.00	0.09	0.141	IO					0.73
68.167	0.00	0.09	0.141	IO					0.73
68.250	0.00	0.09	0.140	IO					0.73

68.333	0.00	0.09	0.139	IO					0.72
68.417	0.00	0.09	0.139	IO					0.72
68.500	0.00	0.09	0.138	IO					0.72
68.583	0.00	0.08	0.138	IO					0.71
68.667	0.00	0.08	0.137	IO					0.71
68.750	0.00	0.08	0.136	IO					0.71
68.833	0.00	0.08	0.136	IO					0.71
68.917	0.00	0.08	0.135	IO					0.70
69.000	0.00	0.08	0.135	IO					0.70
69.083	0.00	0.08	0.134	IO					0.70
69.167	0.00	0.08	0.134	IO					0.70
69.250	0.00	0.08	0.133	IO					0.69
69.333	0.00	0.07	0.133	IO					0.69
69.417	0.00	0.07	0.132	IO					0.69
69.500	0.00	0.07	0.132	IO					0.69
69.583	0.00	0.07	0.131	IO					0.68
69.667	0.00	0.07	0.131	IO					0.68
69.750	0.00	0.07	0.130	IO					0.68
69.833	0.00	0.07	0.130	IO					0.68
69.917	0.00	0.07	0.129	IO					0.67
70.000	0.00	0.07	0.129	IO					0.67
70.083	0.00	0.07	0.128	IO					0.67
70.167	0.00	0.07	0.128	IO					0.67
70.250	0.00	0.06	0.127	IO					0.67
70.333	0.00	0.06	0.127	IO					0.66
70.417	0.00	0.06	0.126	IO					0.66
70.500	0.00	0.06	0.126	IO					0.66
70.583	0.00	0.06	0.126	IO					0.66
70.667	0.00	0.06	0.125	IO					0.65
70.750	0.00	0.06	0.125	IO					0.65
70.833	0.00	0.06	0.124	IO					0.65
70.917	0.00	0.06	0.124	IO					0.65
71.000	0.00	0.06	0.124	IO					0.65
71.083	0.00	0.06	0.123	0					0.65
71.167	0.00	0.06	0.123	0					0.64
71.250	0.00	0.06	0.122	0					0.64
71.333	0.00	0.05	0.122	0					0.64
71.417	0.00	0.05	0.122	0					0.64
71.500	0.00	0.05	0.121	0					0.64
71.583	0.00	0.05	0.121	0					0.63
71.667	0.00	0.05	0.121	0					0.63
71.750	0.00	0.05	0.120	0					0.63
71.833	0.00	0.05	0.120	0					0.63
71.917	0.00	0.05	0.119	0					0.63
72.000	0.00	0.05	0.119	0					0.63
72.083	0.00	0.05	0.119	0					0.62
72.167	0.00	0.05	0.118	0					0.62
72.250	0.00	0.05	0.118	0					0.62
72.333	0.00	0.05	0.118	0					0.62
72.417	0.00	0.05	0.118	0					0.62

72.500	0.00	0.05	0.117	0					0.62
72.583	0.00	0.05	0.117	0					0.61
72.667	0.00	0.04	0.117	0					0.61
72.750	0.00	0.04	0.116	0					0.61
72.833	0.00	0.04	0.116	0					0.61
72.917	0.00	0.04	0.116	0					0.61
73.000	0.00	0.04	0.115	0					0.61
73.083	0.00	0.04	0.115	0					0.61
73.167	0.00	0.04	0.115	0					0.60
73.250	0.00	0.04	0.115	0					0.60
73.333	0.00	0.04	0.114	0					0.60
73.417	0.00	0.04	0.114	0					0.60
73.500	0.00	0.04	0.114	0					0.60
73.583	0.00	0.04	0.113	0					0.60
73.667	0.00	0.04	0.113	0					0.60
73.750	0.00	0.04	0.113	0					0.60
73.833	0.00	0.04	0.113	0					0.59
73.917	0.00	0.04	0.112	0					0.59
74.000	0.00	0.04	0.112	0					0.59
74.083	0.00	0.04	0.112	0					0.59
74.167	0.00	0.04	0.112	0					0.59
74.250	0.00	0.03	0.111	0					0.59
74.333	0.00	0.03	0.111	0					0.59
74.417	0.00	0.03	0.111	0					0.59
74.500	0.00	0.03	0.111	0					0.59
74.583	0.00	0.03	0.110	0					0.58
74.667	0.00	0.03	0.110	0					0.58
74.750	0.00	0.03	0.110	0					0.58
74.833	0.00	0.03	0.110	0					0.58
74.917	0.00	0.03	0.110	0					0.58
75.000	0.00	0.03	0.109	0					0.58
75.083	0.00	0.03	0.109	0					0.58
75.167	0.00	0.03	0.109	0					0.58
75.250	0.00	0.03	0.109	0					0.58
75.333	0.00	0.03	0.109	0					0.57
75.417	0.00	0.03	0.108	0					0.57
75.500	0.00	0.03	0.108	0					0.57
75.583	0.00	0.03	0.108	0					0.57
75.667	0.00	0.03	0.108	0					0.57
75.750	0.00	0.03	0.108	0					0.57
75.833	0.00	0.03	0.107	0					0.57
75.917	0.00	0.03	0.107	0					0.57
76.000	0.00	0.03	0.107	0					0.57
76.083	0.00	0.03	0.107	0					0.57
76.167	0.00	0.03	0.107	0					0.57
76.250	0.00	0.03	0.106	0					0.56
76.333	0.00	0.03	0.106	0					0.56
76.417	0.00	0.02	0.106	0					0.56
76.500	0.00	0.02	0.106	0					0.56
76.583	0.00	0.02	0.106	0					0.56

76.667	0.00	0.02	0.106	0					0.56
76.750	0.00	0.02	0.105	0					0.56
76.833	0.00	0.02	0.105	0					0.56
76.917	0.00	0.02	0.105	0					0.56
77.000	0.00	0.02	0.105	0					0.56
77.083	0.00	0.02	0.105	0					0.56
77.167	0.00	0.02	0.105	0					0.56
77.250	0.00	0.02	0.105	0					0.56
77.333	0.00	0.02	0.104	0					0.55
77.417	0.00	0.02	0.104	0					0.55
77.500	0.00	0.02	0.104	0					0.55
77.583	0.00	0.02	0.104	0					0.55
77.667	0.00	0.02	0.104	0					0.55
77.750	0.00	0.02	0.104	0					0.55
77.833	0.00	0.02	0.104	0					0.55
77.917	0.00	0.02	0.103	0					0.55
78.000	0.00	0.02	0.103	0					0.55
78.083	0.00	0.02	0.103	0					0.55
78.167	0.00	0.02	0.103	0					0.55
78.250	0.00	0.02	0.103	0					0.55
78.333	0.00	0.02	0.103	0					0.55
78.417	0.00	0.02	0.103	0					0.55
78.500	0.00	0.02	0.102	0					0.55
78.583	0.00	0.02	0.102	0					0.55
78.667	0.00	0.02	0.102	0					0.54
78.750	0.00	0.02	0.102	0					0.54
78.833	0.00	0.02	0.102	0					0.54
78.917	0.00	0.02	0.102	0					0.54
79.000	0.00	0.02	0.102	0					0.54
79.083	0.00	0.02	0.102	0					0.54
79.167	0.00	0.02	0.102	0					0.54
79.250	0.00	0.02	0.101	0					0.54
79.333	0.00	0.02	0.101	0					0.54
79.417	0.00	0.02	0.101	0					0.54
79.500	0.00	0.02	0.101	0					0.54
79.583	0.00	0.02	0.101	0					0.54
79.667	0.00	0.01	0.101	0					0.54
79.750	0.00	0.01	0.101	0					0.54
79.833	0.00	0.01	0.101	0					0.54
79.917	0.00	0.01	0.101	0					0.54
80.000	0.00	0.01	0.101	0					0.54
80.083	0.00	0.01	0.100	0					0.54
80.167	0.00	0.01	0.100	0					0.54
80.250	0.00	0.01	0.100	0					0.53
80.333	0.00	0.01	0.100	0					0.53
80.417	0.00	0.01	0.100	0					0.53
80.500	0.00	0.01	0.100	0					0.53
80.583	0.00	0.01	0.100	0					0.53
80.667	0.00	0.01	0.100	0					0.53
80.750	0.00	0.01	0.100	0					0.53

80.833	0.00	0.01	0.100	0				0.53
80.917	0.00	0.01	0.100	0				0.53
81.000	0.00	0.01	0.099	0				0.53
81.083	0.00	0.01	0.099	0				0.53
81.167	0.00	0.01	0.099	0				0.53
81.250	0.00	0.01	0.099	0				0.53
81.333	0.00	0.01	0.099	0				0.53
81.417	0.00	0.01	0.099	0				0.53
81.500	0.00	0.01	0.099	0				0.53
81.583	0.00	0.01	0.099	0				0.53
81.667	0.00	0.01	0.099	0				0.53
81.750	0.00	0.01	0.099	0				0.53
81.833	0.00	0.01	0.099	0				0.53
81.917	0.00	0.01	0.099	0				0.53
82.000	0.00	0.01	0.098	0				0.53
82.083	0.00	0.01	0.098	0				0.53
82.167	0.00	0.01	0.098	0				0.53
82.250	0.00	0.01	0.098	0				0.53
82.333	0.00	0.01	0.098	0				0.53
82.417	0.00	0.01	0.098	0				0.52
82.500	0.00	0.01	0.098	0				0.52
82.583	0.00	0.01	0.098	0				0.52
82.667	0.00	0.01	0.098	0				0.52
82.750	0.00	0.01	0.098	0				0.52
82.833	0.00	0.01	0.098	0				0.52
82.917	0.00	0.01	0.098	0				0.52
83.000	0.00	0.01	0.098	0				0.52
83.083	0.00	0.01	0.098	0				0.52
83.167	0.00	0.01	0.098	0				0.52
83.250	0.00	0.01	0.098	0				0.52
83.333	0.00	0.01	0.097	0				0.52
83.417	0.00	0.01	0.097	0				0.52
83.500	0.00	0.01	0.097	0				0.52
83.583	0.00	0.01	0.097	0				0.52
83.667	0.00	0.01	0.097	0				0.52
83.750	0.00	0.01	0.097	0				0.52
83.833	0.00	0.01	0.097	0				0.52
83.917	0.00	0.01	0.097	0				0.52
84.000	0.00	0.01	0.097	0				0.52
84.083	0.00	0.01	0.097	0				0.52
84.167	0.00	0.01	0.097	0				0.52
84.250	0.00	0.01	0.097	0				0.52
84.333	0.00	0.01	0.097	0				0.52
84.417	0.00	0.01	0.097	0				0.52
84.500	0.00	0.01	0.097	0				0.52
84.583	0.00	0.01	0.097	0				0.52
84.667	0.00	0.01	0.097	0				0.52
84.750	0.00	0.01	0.097	0				0.52
84.833	0.00	0.01	0.097	0				0.52
84.917	0.00	0.01	0.096	0				0.52

85.000	0.00	0.01	0.096	0					0.52
85.083	0.00	0.01	0.096	0					0.52
85.167	0.00	0.01	0.096	0					0.52
85.250	0.00	0.01	0.096	0					0.52
85.333	0.00	0.01	0.096	0					0.52
85.417	0.00	0.01	0.096	0					0.52
85.500	0.00	0.01	0.096	0					0.52
85.583	0.00	0.01	0.096	0					0.52
85.667	0.00	0.01	0.096	0					0.51
85.750	0.00	0.01	0.096	0					0.51
85.833	0.00	0.01	0.096	0					0.51
85.917	0.00	0.01	0.096	0					0.51
86.000	0.00	0.01	0.096	0					0.51
86.083	0.00	0.01	0.096	0					0.51
86.167	0.00	0.01	0.096	0					0.51
86.250	0.00	0.01	0.096	0					0.51
86.333	0.00	0.01	0.096	0					0.51
86.417	0.00	0.01	0.096	0					0.51
86.500	0.00	0.01	0.096	0					0.51
86.583	0.00	0.01	0.096	0					0.51
86.667	0.00	0.01	0.096	0					0.51
86.750	0.00	0.00	0.096	0					0.51
86.833	0.00	0.00	0.096	0					0.51
86.917	0.00	0.00	0.096	0					0.51
87.000	0.00	0.00	0.096	0					0.51
87.083	0.00	0.00	0.095	0					0.51
87.167	0.00	0.00	0.095	0					0.51
87.250	0.00	0.00	0.095	0					0.51
87.333	0.00	0.00	0.095	0					0.51
87.417	0.00	0.00	0.095	0					0.51
87.500	0.00	0.00	0.095	0					0.51
87.583	0.00	0.00	0.095	0					0.51
87.667	0.00	0.00	0.095	0					0.51
87.750	0.00	0.00	0.095	0					0.51
87.833	0.00	0.00	0.095	0					0.51
87.917	0.00	0.00	0.095	0					0.51
88.000	0.00	0.00	0.095	0					0.51
88.083	0.00	0.00	0.095	0					0.51
88.167	0.00	0.00	0.095	0					0.51
88.250	0.00	0.00	0.095	0					0.51
88.333	0.00	0.00	0.095	0					0.51
88.417	0.00	0.00	0.095	0					0.51
88.500	0.00	0.00	0.095	0					0.51
88.583	0.00	0.00	0.095	0					0.51
88.667	0.00	0.00	0.095	0					0.51
88.750	0.00	0.00	0.095	0					0.51
88.833	0.00	0.00	0.095	0					0.51
88.917	0.00	0.00	0.095	0					0.51
89.000	0.00	0.00	0.095	0					0.51
89.083	0.00	0.00	0.095	0					0.51

89.167	0.00	0.00	0.095	0					0.51
89.250	0.00	0.00	0.095	0					0.51
89.333	0.00	0.00	0.095	0					0.51
89.417	0.00	0.00	0.095	0					0.51
89.500	0.00	0.00	0.095	0					0.51
89.583	0.00	0.00	0.095	0					0.51
89.667	0.00	0.00	0.095	0					0.51
89.750	0.00	0.00	0.095	0					0.51
89.833	0.00	0.00	0.095	0					0.51
89.917	0.00	0.00	0.095	0					0.51
90.000	0.00	0.00	0.095	0					0.51
90.083	0.00	0.00	0.095	0					0.51
90.167	0.00	0.00	0.095	0					0.51
90.250	0.00	0.00	0.095	0					0.51
90.333	0.00	0.00	0.094	0					0.51
90.417	0.00	0.00	0.094	0					0.51
90.500	0.00	0.00	0.094	0					0.51
90.583	0.00	0.00	0.094	0					0.51
90.667	0.00	0.00	0.094	0					0.51
90.750	0.00	0.00	0.094	0					0.51
90.833	0.00	0.00	0.094	0					0.51
90.917	0.00	0.00	0.094	0					0.51
91.000	0.00	0.00	0.094	0					0.51
91.083	0.00	0.00	0.094	0					0.51
91.167	0.00	0.00	0.094	0					0.51
91.250	0.00	0.00	0.094	0					0.51
91.333	0.00	0.00	0.094	0					0.51
91.417	0.00	0.00	0.094	0					0.51
91.500	0.00	0.00	0.094	0					0.51
91.583	0.00	0.00	0.094	0					0.51
91.667	0.00	0.00	0.094	0					0.51
91.750	0.00	0.00	0.094	0					0.51
91.833	0.00	0.00	0.094	0					0.51
91.917	0.00	0.00	0.094	0					0.51
92.000	0.00	0.00	0.094	0					0.51
92.083	0.00	0.00	0.094	0					0.51
92.167	0.00	0.00	0.094	0					0.51
92.250	0.00	0.00	0.094	0					0.51
92.333	0.00	0.00	0.094	0					0.51
92.417	0.00	0.00	0.094	0					0.51
92.500	0.00	0.00	0.094	0					0.51
92.583	0.00	0.00	0.094	0					0.51
92.667	0.00	0.00	0.094	0					0.51
92.750	0.00	0.00	0.094	0					0.50
92.833	0.00	0.00	0.094	0					0.50
92.917	0.00	0.00	0.094	0					0.50
93.000	0.00	0.00	0.094	0					0.50
93.083	0.00	0.00	0.094	0					0.50
93.167	0.00	0.00	0.094	0					0.50
93.250	0.00	0.00	0.094	0					0.50

93.333	0.00	0.00	0.094	0					0.50
93.417	0.00	0.00	0.094	0					0.50
93.500	0.00	0.00	0.094	0					0.50
93.583	0.00	0.00	0.094	0					0.50
93.667	0.00	0.00	0.094	0					0.50
93.750	0.00	0.00	0.094	0					0.50
93.833	0.00	0.00	0.094	0					0.50
93.917	0.00	0.00	0.094	0					0.50
94.000	0.00	0.00	0.094	0					0.50
94.083	0.00	0.00	0.094	0					0.50
94.167	0.00	0.00	0.094	0					0.50
94.250	0.00	0.00	0.094	0					0.50
94.333	0.00	0.00	0.094	0					0.50
94.417	0.00	0.00	0.094	0					0.50
94.500	0.00	0.00	0.094	0					0.50
94.583	0.00	0.00	0.094	0					0.50
94.667	0.00	0.00	0.094	0					0.50
94.750	0.00	0.00	0.094	0					0.50
94.833	0.00	0.00	0.094	0					0.50
94.917	0.00	0.00	0.094	0					0.50
95.000	0.00	0.00	0.094	0					0.50
95.083	0.00	0.00	0.094	0					0.50
95.167	0.00	0.00	0.094	0					0.50
95.250	0.00	0.00	0.094	0					0.50
95.333	0.00	0.00	0.094	0					0.50
95.417	0.00	0.00	0.094	0					0.50
95.500	0.00	0.00	0.094	0					0.50
95.583	0.00	0.00	0.094	0					0.50
95.667	0.00	0.00	0.094	0					0.50
95.750	0.00	0.00	0.094	0					0.50
95.833	0.00	0.00	0.094	0					0.50
95.917	0.00	0.00	0.094	0					0.50
96.000	0.00	0.00	0.094	0					0.50
96.083	0.00	0.00	0.094	0					0.50
96.167	0.00	0.00	0.094	0					0.50
96.250	0.00	0.00	0.094	0					0.50
96.333	0.00	0.00	0.094	0					0.50
96.417	0.00	0.00	0.094	0					0.50
96.500	0.00	0.00	0.094	0					0.50
96.583	0.00	0.00	0.094	0					0.50
96.667	0.00	0.00	0.094	0					0.50
96.750	0.00	0.00	0.094	0					0.50
96.833	0.00	0.00	0.094	0					0.50
96.917	0.00	0.00	0.094	0					0.50
97.000	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 1164

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 1.023 (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

DMA 1 Proposed 10-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 1 10YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH110.rte
*****HYDROGRAPH DATA*****
Number of intervals = 15
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 11.513 (CFS)
Total volume = 0.391 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 15

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	0	2.9	5.76	8.63	11.51	Depth (Ft.)
0.083	1.15	0.00	0.004	0	I				0.02
0.167	2.07	0.00	0.015	0	I				0.08
0.250	2.54	0.00	0.031	0	I				0.17
0.333	2.82	0.00	0.049	0	I				0.27
0.417	2.96	0.00	0.069	0	I				0.37
0.500	3.27	0.00	0.091	0	I				0.49
0.583	3.95	0.04	0.115	0	I				0.61
0.667	4.75	0.10	0.145	0		I			0.75
0.750	6.34	0.17	0.182	0		I			0.93
0.833	11.51	0.20	0.242	0				I	1.20
0.917	9.15	0.20	0.312	0			I		1.50
1.000	4.31	0.20	0.357	0	I				1.67
1.083	1.62	0.20	0.376	0	I				1.75
1.167	0.26	0.20	0.381	0					1.77
1.250	0.05	0.20	0.381	0					1.77
1.333	0.00	0.20	0.380	0					1.76
1.417	0.00	0.20	0.379	0					1.76
1.500	0.00	0.20	0.377	0					1.75
1.583	0.00	0.20	0.376	0					1.75

1.667	0.00	0.20	0.375	0					1.74
1.750	0.00	0.20	0.373	0					1.74
1.833	0.00	0.20	0.372	0					1.73
1.917	0.00	0.20	0.371	0					1.73
2.000	0.00	0.20	0.369	0					1.72
2.083	0.00	0.20	0.368	0					1.72
2.167	0.00	0.20	0.366	0					1.71
2.250	0.00	0.20	0.365	0					1.71
2.333	0.00	0.20	0.364	0					1.70
2.417	0.00	0.20	0.362	0					1.69
2.500	0.00	0.20	0.361	0					1.69
2.583	0.00	0.20	0.360	0					1.68
2.667	0.00	0.20	0.358	0					1.68
2.750	0.00	0.20	0.357	0					1.67
2.833	0.00	0.20	0.356	0					1.67
2.917	0.00	0.20	0.354	0					1.66
3.000	0.00	0.20	0.353	0					1.66
3.083	0.00	0.20	0.352	0					1.65
3.167	0.00	0.20	0.350	0					1.65
3.250	0.00	0.20	0.349	0					1.64
3.333	0.00	0.20	0.348	0					1.64
3.417	0.00	0.20	0.346	0					1.63
3.500	0.00	0.20	0.345	0					1.63
3.583	0.00	0.20	0.343	0					1.62
3.667	0.00	0.20	0.342	0					1.61
3.750	0.00	0.20	0.341	0					1.61
3.833	0.00	0.20	0.339	0					1.60
3.917	0.00	0.20	0.338	0					1.60
4.000	0.00	0.20	0.337	0					1.59
4.083	0.00	0.20	0.335	0					1.59
4.167	0.00	0.20	0.334	0					1.58
4.250	0.00	0.20	0.333	0					1.58
4.333	0.00	0.20	0.331	0					1.57
4.417	0.00	0.20	0.330	0					1.57
4.500	0.00	0.20	0.329	0					1.56
4.583	0.00	0.20	0.327	0					1.56
4.667	0.00	0.20	0.326	0					1.55
4.750	0.00	0.20	0.325	0					1.55
4.833	0.00	0.20	0.323	0					1.54
4.917	0.00	0.20	0.322	0					1.53
5.000	0.00	0.20	0.321	0					1.53
5.083	0.00	0.20	0.319	0					1.52
5.167	0.00	0.20	0.318	0					1.52
5.250	0.00	0.20	0.316	0					1.51
5.333	0.00	0.20	0.315	0					1.51
5.417	0.00	0.20	0.314	0					1.50
5.500	0.00	0.20	0.312	0					1.50
5.583	0.00	0.20	0.311	0					1.49
5.667	0.00	0.20	0.310	0					1.49
5.750	0.00	0.20	0.308	0					1.48

5.833	0.00	0.20	0.307	0					1.47
5.917	0.00	0.20	0.306	0					1.47
6.000	0.00	0.20	0.304	0					1.46
6.083	0.00	0.20	0.303	0					1.46
6.167	0.00	0.20	0.302	0					1.45
6.250	0.00	0.20	0.300	0					1.44
6.333	0.00	0.20	0.299	0					1.44
6.417	0.00	0.20	0.298	0					1.43
6.500	0.00	0.20	0.296	0					1.43
6.583	0.00	0.20	0.295	0					1.42
6.667	0.00	0.20	0.293	0					1.42
6.750	0.00	0.20	0.292	0					1.41
6.833	0.00	0.20	0.291	0					1.40
6.917	0.00	0.20	0.289	0					1.40
7.000	0.00	0.20	0.288	0					1.39
7.083	0.00	0.20	0.287	0					1.39
7.167	0.00	0.20	0.285	0					1.38
7.250	0.00	0.20	0.284	0					1.37
7.333	0.00	0.20	0.283	0					1.37
7.417	0.00	0.20	0.281	0					1.36
7.500	0.00	0.20	0.280	0					1.36
7.583	0.00	0.20	0.279	0					1.35
7.667	0.00	0.20	0.277	0					1.35
7.750	0.00	0.20	0.276	0					1.34
7.833	0.00	0.20	0.275	0					1.33
7.917	0.00	0.20	0.273	0					1.33
8.000	0.00	0.20	0.272	0					1.32
8.083	0.00	0.20	0.270	0					1.32
8.167	0.00	0.20	0.269	0					1.31
8.250	0.00	0.20	0.268	0					1.31
8.333	0.00	0.20	0.266	0					1.30
8.417	0.00	0.20	0.265	0					1.29
8.500	0.00	0.20	0.264	0					1.29
8.583	0.00	0.20	0.262	0					1.28
8.667	0.00	0.20	0.261	0					1.28
8.750	0.00	0.20	0.260	0					1.27
8.833	0.00	0.20	0.258	0					1.26
8.917	0.00	0.20	0.257	0					1.26
9.000	0.00	0.20	0.256	0					1.25
9.083	0.00	0.20	0.254	0					1.25
9.167	0.00	0.20	0.253	0					1.24
9.250	0.00	0.20	0.252	0					1.24
9.333	0.00	0.20	0.250	0					1.23
9.417	0.00	0.20	0.249	0					1.22
9.500	0.00	0.20	0.247	0					1.22
9.583	0.00	0.20	0.246	0					1.21
9.667	0.00	0.20	0.245	0					1.21
9.750	0.00	0.20	0.243	0					1.20
9.833	0.00	0.20	0.242	0					1.19
9.917	0.00	0.20	0.241	0					1.19

10.000	0.00	0.20	0.239	0					1.18
10.083	0.00	0.20	0.238	0					1.18
10.167	0.00	0.20	0.237	0					1.17
10.250	0.00	0.20	0.235	0					1.17
10.333	0.00	0.20	0.234	0					1.16
10.417	0.00	0.20	0.233	0					1.15
10.500	0.00	0.20	0.231	0					1.15
10.583	0.00	0.20	0.230	0					1.14
10.667	0.00	0.20	0.229	0					1.14
10.750	0.00	0.20	0.227	0					1.13
10.833	0.00	0.20	0.226	0					1.12
10.917	0.00	0.20	0.224	0					1.12
11.000	0.00	0.20	0.223	0					1.11
11.083	0.00	0.20	0.222	0					1.11
11.167	0.00	0.20	0.220	0					1.10
11.250	0.00	0.20	0.219	0					1.10
11.333	0.00	0.20	0.218	0					1.09
11.417	0.00	0.20	0.216	0					1.08
11.500	0.00	0.20	0.215	0					1.08
11.583	0.00	0.20	0.214	0					1.07
11.667	0.00	0.20	0.212	0					1.07
11.750	0.00	0.20	0.211	0					1.06
11.833	0.00	0.20	0.210	0					1.05
11.917	0.00	0.20	0.208	0					1.05
12.000	0.00	0.20	0.207	0					1.04
12.083	0.00	0.20	0.206	0					1.04
12.167	0.00	0.20	0.204	0					1.03
12.250	0.00	0.20	0.203	0					1.03
12.333	0.00	0.20	0.202	0					1.02
12.417	0.00	0.20	0.200	0					1.01
12.500	0.00	0.20	0.199	0					1.01
12.583	0.00	0.20	0.197	0					1.00
12.667	0.00	0.19	0.196	0					1.00
12.750	0.00	0.19	0.195	0					0.99
12.833	0.00	0.19	0.193	0					0.98
12.917	0.00	0.19	0.192	0					0.98
13.000	0.00	0.18	0.191	0					0.97
13.083	0.00	0.18	0.190	0					0.96
13.167	0.00	0.18	0.188	0					0.96
13.250	0.00	0.18	0.187	0					0.95
13.333	0.00	0.18	0.186	0					0.95
13.417	0.00	0.17	0.185	0					0.94
13.500	0.00	0.17	0.184	0					0.94
13.583	0.00	0.17	0.182	0					0.93
13.667	0.00	0.17	0.181	0					0.92
13.750	0.00	0.16	0.180	0					0.92
13.833	0.00	0.16	0.179	0					0.91
13.917	0.00	0.16	0.178	0					0.91
14.000	0.00	0.16	0.177	0					0.90
14.083	0.00	0.16	0.176	0					0.90

14.167	0.00	0.15	0.175	0					0.89
14.250	0.00	0.15	0.174	0					0.89
14.333	0.00	0.15	0.172	0					0.88
14.417	0.00	0.15	0.171	0					0.88
14.500	0.00	0.15	0.170	0					0.87
14.583	0.00	0.14	0.169	0					0.87
14.667	0.00	0.14	0.168	0					0.86
14.750	0.00	0.14	0.167	0					0.86
14.833	0.00	0.14	0.167	0					0.85
14.917	0.00	0.14	0.166	0					0.85
15.000	0.00	0.14	0.165	0					0.84
15.083	0.00	0.13	0.164	0					0.84
15.167	0.00	0.13	0.163	0					0.84
15.250	0.00	0.13	0.162	0					0.83
15.333	0.00	0.13	0.161	0					0.83
15.417	0.00	0.13	0.160	0					0.82
15.500	0.00	0.13	0.159	0					0.82
15.583	0.00	0.12	0.158	0					0.81
15.667	0.00	0.12	0.158	0					0.81
15.750	0.00	0.12	0.157	0					0.81
15.833	0.00	0.12	0.156	0					0.80
15.917	0.00	0.12	0.155	0					0.80
16.000	0.00	0.12	0.154	0					0.79
16.083	0.00	0.11	0.154	0					0.79
16.167	0.00	0.11	0.153	0					0.79
16.250	0.00	0.11	0.152	0					0.78
16.333	0.00	0.11	0.151	0					0.78
16.417	0.00	0.11	0.150	0					0.78
16.500	0.00	0.11	0.150	0					0.77
16.583	0.00	0.11	0.149	0					0.77
16.667	0.00	0.10	0.148	0					0.77
16.750	0.00	0.10	0.148	0					0.76
16.833	0.00	0.10	0.147	0					0.76
16.917	0.00	0.10	0.146	0					0.76
17.000	0.00	0.10	0.145	0					0.75
17.083	0.00	0.10	0.145	0					0.75
17.167	0.00	0.10	0.144	0					0.75
17.250	0.00	0.10	0.143	0					0.74
17.333	0.00	0.09	0.143	0					0.74
17.417	0.00	0.09	0.142	0					0.74
17.500	0.00	0.09	0.142	0					0.73
17.583	0.00	0.09	0.141	0					0.73
17.667	0.00	0.09	0.140	0					0.73
17.750	0.00	0.09	0.140	0					0.72
17.833	0.00	0.09	0.139	0					0.72
17.917	0.00	0.09	0.138	0					0.72
18.000	0.00	0.08	0.138	0					0.72
18.083	0.00	0.08	0.137	0					0.71
18.167	0.00	0.08	0.137	0					0.71
18.250	0.00	0.08	0.136	0					0.71

18.333	0.00	0.08	0.136	0					0.70
18.417	0.00	0.08	0.135	0					0.70
18.500	0.00	0.08	0.134	0					0.70
18.583	0.00	0.08	0.134	0					0.70
18.667	0.00	0.08	0.133	0					0.69
18.750	0.00	0.08	0.133	0					0.69
18.833	0.00	0.07	0.132	0					0.69
18.917	0.00	0.07	0.132	0					0.69
19.000	0.00	0.07	0.131	0					0.68
19.083	0.00	0.07	0.131	0					0.68
19.167	0.00	0.07	0.130	0					0.68
19.250	0.00	0.07	0.130	0					0.68
19.333	0.00	0.07	0.129	0					0.68
19.417	0.00	0.07	0.129	0					0.67
19.500	0.00	0.07	0.129	0					0.67
19.583	0.00	0.07	0.128	0					0.67
19.667	0.00	0.07	0.128	0					0.67
19.750	0.00	0.06	0.127	0					0.66
19.833	0.00	0.06	0.127	0					0.66
19.917	0.00	0.06	0.126	0					0.66
20.000	0.00	0.06	0.126	0					0.66
20.083	0.00	0.06	0.125	0					0.66
20.167	0.00	0.06	0.125	0					0.65
20.250	0.00	0.06	0.125	0					0.65
20.333	0.00	0.06	0.124	0					0.65
20.417	0.00	0.06	0.124	0					0.65
20.500	0.00	0.06	0.123	0					0.65
20.583	0.00	0.06	0.123	0					0.64
20.667	0.00	0.06	0.123	0					0.64
20.750	0.00	0.06	0.122	0					0.64
20.833	0.00	0.05	0.122	0					0.64
20.917	0.00	0.05	0.121	0					0.64
21.000	0.00	0.05	0.121	0					0.64
21.083	0.00	0.05	0.121	0					0.63
21.167	0.00	0.05	0.120	0					0.63
21.250	0.00	0.05	0.120	0					0.63
21.333	0.00	0.05	0.120	0					0.63
21.417	0.00	0.05	0.119	0					0.63
21.500	0.00	0.05	0.119	0					0.62
21.583	0.00	0.05	0.119	0					0.62
21.667	0.00	0.05	0.118	0					0.62
21.750	0.00	0.05	0.118	0					0.62
21.833	0.00	0.05	0.118	0					0.62
21.917	0.00	0.05	0.117	0					0.62
22.000	0.00	0.05	0.117	0					0.62
22.083	0.00	0.04	0.117	0					0.61
22.167	0.00	0.04	0.116	0					0.61
22.250	0.00	0.04	0.116	0					0.61
22.333	0.00	0.04	0.116	0					0.61
22.417	0.00	0.04	0.116	0					0.61

22.500	0.00	0.04	0.115	0				0.61
22.583	0.00	0.04	0.115	0				0.61
22.667	0.00	0.04	0.115	0				0.60
22.750	0.00	0.04	0.114	0				0.60
22.833	0.00	0.04	0.114	0				0.60
22.917	0.00	0.04	0.114	0				0.60
23.000	0.00	0.04	0.114	0				0.60
23.083	0.00	0.04	0.113	0				0.60
23.167	0.00	0.04	0.113	0				0.60
23.250	0.00	0.04	0.113	0				0.60
23.333	0.00	0.04	0.113	0				0.59
23.417	0.00	0.04	0.112	0				0.59
23.500	0.00	0.04	0.112	0				0.59
23.583	0.00	0.04	0.112	0				0.59
23.667	0.00	0.03	0.112	0				0.59
23.750	0.00	0.03	0.111	0				0.59
23.833	0.00	0.03	0.111	0				0.59
23.917	0.00	0.03	0.111	0				0.59
24.000	0.00	0.03	0.111	0				0.58
24.083	0.00	0.03	0.110	0				0.58
24.167	0.00	0.03	0.110	0				0.58
24.250	0.00	0.03	0.110	0				0.58
24.333	0.00	0.03	0.110	0				0.58
24.417	0.00	0.03	0.109	0				0.58
24.500	0.00	0.03	0.109	0				0.58
24.583	0.00	0.03	0.109	0				0.58
24.667	0.00	0.03	0.109	0				0.58
24.750	0.00	0.03	0.109	0				0.58
24.833	0.00	0.03	0.108	0				0.57
24.917	0.00	0.03	0.108	0				0.57
25.000	0.00	0.03	0.108	0				0.57
25.083	0.00	0.03	0.108	0				0.57
25.167	0.00	0.03	0.108	0				0.57
25.250	0.00	0.03	0.107	0				0.57
25.333	0.00	0.03	0.107	0				0.57
25.417	0.00	0.03	0.107	0				0.57
25.500	0.00	0.03	0.107	0				0.57
25.583	0.00	0.03	0.107	0				0.57
25.667	0.00	0.03	0.107	0				0.57
25.750	0.00	0.03	0.106	0				0.56
25.833	0.00	0.02	0.106	0				0.56
25.917	0.00	0.02	0.106	0				0.56
26.000	0.00	0.02	0.106	0				0.56
26.083	0.00	0.02	0.106	0				0.56
26.167	0.00	0.02	0.106	0				0.56
26.250	0.00	0.02	0.105	0				0.56
26.333	0.00	0.02	0.105	0				0.56
26.417	0.00	0.02	0.105	0				0.56
26.500	0.00	0.02	0.105	0				0.56
26.583	0.00	0.02	0.105	0				0.56

26.667	0.00	0.02	0.105	0					0.56
26.750	0.00	0.02	0.104	0					0.56
26.833	0.00	0.02	0.104	0					0.55
26.917	0.00	0.02	0.104	0					0.55
27.000	0.00	0.02	0.104	0					0.55
27.083	0.00	0.02	0.104	0					0.55
27.167	0.00	0.02	0.104	0					0.55
27.250	0.00	0.02	0.104	0					0.55
27.333	0.00	0.02	0.103	0					0.55
27.417	0.00	0.02	0.103	0					0.55
27.500	0.00	0.02	0.103	0					0.55
27.583	0.00	0.02	0.103	0					0.55
27.667	0.00	0.02	0.103	0					0.55
27.750	0.00	0.02	0.103	0					0.55
27.833	0.00	0.02	0.103	0					0.55
27.917	0.00	0.02	0.103	0					0.55
28.000	0.00	0.02	0.102	0					0.55
28.083	0.00	0.02	0.102	0					0.54
28.167	0.00	0.02	0.102	0					0.54
28.250	0.00	0.02	0.102	0					0.54
28.333	0.00	0.02	0.102	0					0.54
28.417	0.00	0.02	0.102	0					0.54
28.500	0.00	0.02	0.102	0					0.54
28.583	0.00	0.02	0.102	0					0.54
28.667	0.00	0.02	0.101	0					0.54
28.750	0.00	0.02	0.101	0					0.54
28.833	0.00	0.02	0.101	0					0.54
28.917	0.00	0.02	0.101	0					0.54
29.000	0.00	0.02	0.101	0					0.54
29.083	0.00	0.02	0.101	0					0.54
29.167	0.00	0.01	0.101	0					0.54
29.250	0.00	0.01	0.101	0					0.54
29.333	0.00	0.01	0.101	0					0.54
29.417	0.00	0.01	0.101	0					0.54
29.500	0.00	0.01	0.100	0					0.54
29.583	0.00	0.01	0.100	0					0.54
29.667	0.00	0.01	0.100	0					0.53
29.750	0.00	0.01	0.100	0					0.53
29.833	0.00	0.01	0.100	0					0.53
29.917	0.00	0.01	0.100	0					0.53
30.000	0.00	0.01	0.100	0					0.53
30.083	0.00	0.01	0.100	0					0.53
30.167	0.00	0.01	0.100	0					0.53
30.250	0.00	0.01	0.100	0					0.53
30.333	0.00	0.01	0.100	0					0.53
30.417	0.00	0.01	0.099	0					0.53
30.500	0.00	0.01	0.099	0					0.53
30.583	0.00	0.01	0.099	0					0.53
30.667	0.00	0.01	0.099	0					0.53
30.750	0.00	0.01	0.099	0					0.53

30.833	0.00	0.01	0.099	0					0.53
30.917	0.00	0.01	0.099	0					0.53
31.000	0.00	0.01	0.099	0					0.53
31.083	0.00	0.01	0.099	0					0.53
31.167	0.00	0.01	0.099	0					0.53
31.250	0.00	0.01	0.099	0					0.53
31.333	0.00	0.01	0.099	0					0.53
31.417	0.00	0.01	0.099	0					0.53
31.500	0.00	0.01	0.098	0					0.53
31.583	0.00	0.01	0.098	0					0.53
31.667	0.00	0.01	0.098	0					0.53
31.750	0.00	0.01	0.098	0					0.53
31.833	0.00	0.01	0.098	0					0.52
31.917	0.00	0.01	0.098	0					0.52
32.000	0.00	0.01	0.098	0					0.52
32.083	0.00	0.01	0.098	0					0.52
32.167	0.00	0.01	0.098	0					0.52
32.250	0.00	0.01	0.098	0					0.52
32.333	0.00	0.01	0.098	0					0.52
32.417	0.00	0.01	0.098	0					0.52
32.500	0.00	0.01	0.098	0					0.52
32.583	0.00	0.01	0.098	0					0.52
32.667	0.00	0.01	0.098	0					0.52
32.750	0.00	0.01	0.097	0					0.52
32.833	0.00	0.01	0.097	0					0.52
32.917	0.00	0.01	0.097	0					0.52
33.000	0.00	0.01	0.097	0					0.52
33.083	0.00	0.01	0.097	0					0.52
33.167	0.00	0.01	0.097	0					0.52
33.250	0.00	0.01	0.097	0					0.52
33.333	0.00	0.01	0.097	0					0.52
33.417	0.00	0.01	0.097	0					0.52
33.500	0.00	0.01	0.097	0					0.52
33.583	0.00	0.01	0.097	0					0.52
33.667	0.00	0.01	0.097	0					0.52
33.750	0.00	0.01	0.097	0					0.52
33.833	0.00	0.01	0.097	0					0.52
33.917	0.00	0.01	0.097	0					0.52
34.000	0.00	0.01	0.097	0					0.52
34.083	0.00	0.01	0.097	0					0.52
34.167	0.00	0.01	0.097	0					0.52
34.250	0.00	0.01	0.097	0					0.52
34.333	0.00	0.01	0.097	0					0.52
34.417	0.00	0.01	0.096	0					0.52
34.500	0.00	0.01	0.096	0					0.52
34.583	0.00	0.01	0.096	0					0.52
34.667	0.00	0.01	0.096	0					0.52
34.750	0.00	0.01	0.096	0					0.52
34.833	0.00	0.01	0.096	0					0.52
34.917	0.00	0.01	0.096	0					0.52

35.000	0.00	0.01	0.096	0					0.52
35.083	0.00	0.01	0.096	0					0.52
35.167	0.00	0.01	0.096	0					0.51
35.250	0.00	0.01	0.096	0					0.51
35.333	0.00	0.01	0.096	0					0.51
35.417	0.00	0.01	0.096	0					0.51
35.500	0.00	0.01	0.096	0					0.51
35.583	0.00	0.01	0.096	0					0.51
35.667	0.00	0.01	0.096	0					0.51
35.750	0.00	0.01	0.096	0					0.51
35.833	0.00	0.01	0.096	0					0.51
35.917	0.00	0.01	0.096	0					0.51
36.000	0.00	0.01	0.096	0					0.51
36.083	0.00	0.01	0.096	0					0.51
36.167	0.00	0.00	0.096	0					0.51
36.250	0.00	0.00	0.096	0					0.51
36.333	0.00	0.00	0.096	0					0.51
36.417	0.00	0.00	0.096	0					0.51
36.500	0.00	0.00	0.096	0					0.51
36.583	0.00	0.00	0.095	0					0.51
36.667	0.00	0.00	0.095	0					0.51
36.750	0.00	0.00	0.095	0					0.51
36.833	0.00	0.00	0.095	0					0.51
36.917	0.00	0.00	0.095	0					0.51
37.000	0.00	0.00	0.095	0					0.51
37.083	0.00	0.00	0.095	0					0.51
37.167	0.00	0.00	0.095	0					0.51
37.250	0.00	0.00	0.095	0					0.51
37.333	0.00	0.00	0.095	0					0.51
37.417	0.00	0.00	0.095	0					0.51
37.500	0.00	0.00	0.095	0					0.51
37.583	0.00	0.00	0.095	0					0.51
37.667	0.00	0.00	0.095	0					0.51
37.750	0.00	0.00	0.095	0					0.51
37.833	0.00	0.00	0.095	0					0.51
37.917	0.00	0.00	0.095	0					0.51
38.000	0.00	0.00	0.095	0					0.51
38.083	0.00	0.00	0.095	0					0.51
38.167	0.00	0.00	0.095	0					0.51
38.250	0.00	0.00	0.095	0					0.51
38.333	0.00	0.00	0.095	0					0.51
38.417	0.00	0.00	0.095	0					0.51
38.500	0.00	0.00	0.095	0					0.51
38.583	0.00	0.00	0.095	0					0.51
38.667	0.00	0.00	0.095	0					0.51
38.750	0.00	0.00	0.095	0					0.51
38.833	0.00	0.00	0.095	0					0.51
38.917	0.00	0.00	0.095	0					0.51
39.000	0.00	0.00	0.095	0					0.51
39.083	0.00	0.00	0.095	0					0.51

39.167	0.00	0.00	0.095	0					0.51
39.250	0.00	0.00	0.095	0					0.51
39.333	0.00	0.00	0.095	0					0.51
39.417	0.00	0.00	0.095	0					0.51
39.500	0.00	0.00	0.095	0					0.51
39.583	0.00	0.00	0.095	0					0.51
39.667	0.00	0.00	0.095	0					0.51
39.750	0.00	0.00	0.095	0					0.51
39.833	0.00	0.00	0.094	0					0.51
39.917	0.00	0.00	0.094	0					0.51
40.000	0.00	0.00	0.094	0					0.51
40.083	0.00	0.00	0.094	0					0.51
40.167	0.00	0.00	0.094	0					0.51
40.250	0.00	0.00	0.094	0					0.51
40.333	0.00	0.00	0.094	0					0.51
40.417	0.00	0.00	0.094	0					0.51
40.500	0.00	0.00	0.094	0					0.51
40.583	0.00	0.00	0.094	0					0.51
40.667	0.00	0.00	0.094	0					0.51
40.750	0.00	0.00	0.094	0					0.51
40.833	0.00	0.00	0.094	0					0.51
40.917	0.00	0.00	0.094	0					0.51
41.000	0.00	0.00	0.094	0					0.51
41.083	0.00	0.00	0.094	0					0.51
41.167	0.00	0.00	0.094	0					0.51
41.250	0.00	0.00	0.094	0					0.51
41.333	0.00	0.00	0.094	0					0.51
41.417	0.00	0.00	0.094	0					0.51
41.500	0.00	0.00	0.094	0					0.51
41.583	0.00	0.00	0.094	0					0.51
41.667	0.00	0.00	0.094	0					0.51
41.750	0.00	0.00	0.094	0					0.51
41.833	0.00	0.00	0.094	0					0.51
41.917	0.00	0.00	0.094	0					0.51
42.000	0.00	0.00	0.094	0					0.51
42.083	0.00	0.00	0.094	0					0.51
42.167	0.00	0.00	0.094	0					0.50
42.250	0.00	0.00	0.094	0					0.50
42.333	0.00	0.00	0.094	0					0.50
42.417	0.00	0.00	0.094	0					0.50
42.500	0.00	0.00	0.094	0					0.50
42.583	0.00	0.00	0.094	0					0.50
42.667	0.00	0.00	0.094	0					0.50
42.750	0.00	0.00	0.094	0					0.50
42.833	0.00	0.00	0.094	0					0.50
42.917	0.00	0.00	0.094	0					0.50
43.000	0.00	0.00	0.094	0					0.50
43.083	0.00	0.00	0.094	0					0.50
43.167	0.00	0.00	0.094	0					0.50
43.250	0.00	0.00	0.094	0					0.50

43.333	0.00	0.00	0.094	0					0.50
43.417	0.00	0.00	0.094	0					0.50
43.500	0.00	0.00	0.094	0					0.50
43.583	0.00	0.00	0.094	0					0.50
43.667	0.00	0.00	0.094	0					0.50
43.750	0.00	0.00	0.094	0					0.50
43.833	0.00	0.00	0.094	0					0.50
43.917	0.00	0.00	0.094	0					0.50
44.000	0.00	0.00	0.094	0					0.50
44.083	0.00	0.00	0.094	0					0.50
44.167	0.00	0.00	0.094	0					0.50
44.250	0.00	0.00	0.094	0					0.50
44.333	0.00	0.00	0.094	0					0.50
44.417	0.00	0.00	0.094	0					0.50
44.500	0.00	0.00	0.094	0					0.50
44.583	0.00	0.00	0.094	0					0.50
44.667	0.00	0.00	0.094	0					0.50
44.750	0.00	0.00	0.094	0					0.50
44.833	0.00	0.00	0.094	0					0.50
44.917	0.00	0.00	0.094	0					0.50
45.000	0.00	0.00	0.094	0					0.50
45.083	0.00	0.00	0.094	0					0.50
45.167	0.00	0.00	0.094	0					0.50
45.250	0.00	0.00	0.094	0					0.50
45.333	0.00	0.00	0.094	0					0.50
45.417	0.00	0.00	0.094	0					0.50
45.500	0.00	0.00	0.094	0					0.50
45.583	0.00	0.00	0.094	0					0.50
45.667	0.00	0.00	0.094	0					0.50
45.750	0.00	0.00	0.094	0					0.50
45.833	0.00	0.00	0.094	0					0.50
45.917	0.00	0.00	0.094	0					0.50
46.000	0.00	0.00	0.094	0					0.50
46.083	0.00	0.00	0.094	0					0.50
46.167	0.00	0.00	0.094	0					0.50
46.250	0.00	0.00	0.094	0					0.50
46.333	0.00	0.00	0.094	0					0.50
46.417	0.00	0.00	0.094	0					0.50
46.500	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 558

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.297 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 10YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH310.rte
*****HYDROGRAPH DATA*****
Number of intervals = 39
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 7.203 (CFS)
Total volume = 0.588 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 39

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.8	3.60	5.40	7.20	Depth (Ft.)
0.083	0.53	0.00	0.002	0	I				0.01
0.167	0.95	0.00	0.007	0	I				0.04
0.250	0.94	0.00	0.013	0	I				0.07
0.333	1.06	0.00	0.020	0	I				0.11
0.417	1.18	0.00	0.028	0	I				0.15
0.500	1.32	0.00	0.037	0	I				0.20
0.583	1.30	0.00	0.046	0	I				0.25
0.667	1.34	0.00	0.055	0	I				0.29
0.750	1.42	0.00	0.064	0	I				0.35
0.833	1.31	0.00	0.074	0	I				0.40
0.917	1.26	0.00	0.083	0	I				0.44
1.000	1.36	0.00	0.092	0	I				0.49
1.083	1.59	0.02	0.102	0	I				0.54
1.167	1.73	0.04	0.113	0	I				0.60
1.250	1.76	0.06	0.125	0	I				0.65
1.333	1.68	0.08	0.136	0	I				0.71
1.417	1.86	0.10	0.147	0	I				0.76
1.500	2.09	0.13	0.160	0	I				0.82
1.583	2.03	0.15	0.174	0	I				0.89

1.667	2.08	0.18	0.187	0	I				0.95
1.750	2.48	0.20	0.201	0	I				1.02
1.833	2.63	0.20	0.217	0	I				1.09
1.917	2.49	0.20	0.233	0	I				1.16
2.000	2.46	0.20	0.249	0	I				1.22
2.083	2.53	0.20	0.265	0	I				1.29
2.167	3.15	0.20	0.283	0	I				1.37
2.250	4.02	0.20	0.306	0		I			1.47
2.333	3.64	0.20	0.331	0		I			1.57
2.417	4.83	0.20	0.359	0			I		1.68
2.500	6.33	0.20	0.396	0				I	1.83
2.583	7.20	0.20	0.442	0				I	2.01
2.667	6.47	0.20	0.487	0				I	2.17
2.750	3.65	0.20	0.521	0		I			2.29
2.833	1.90	0.20	0.539	0	I				2.35
2.917	1.53	0.20	0.549	0	I				2.39
3.000	0.95	0.20	0.556	0	I				2.41
3.083	0.32	0.20	0.559	0	I				2.43
3.167	0.06	0.20	0.559	0					2.43
3.250	0.01	0.20	0.558	0					2.42
3.333	0.00	0.20	0.557	0					2.42
3.417	0.00	0.20	0.555	0					2.41
3.500	0.00	0.20	0.554	0					2.41
3.583	0.00	0.20	0.553	0					2.40
3.667	0.00	0.20	0.551	0					2.40
3.750	0.00	0.20	0.550	0					2.39
3.833	0.00	0.20	0.549	0					2.39
3.917	0.00	0.20	0.547	0					2.38
4.000	0.00	0.20	0.546	0					2.38
4.083	0.00	0.20	0.545	0					2.37
4.167	0.00	0.20	0.543	0					2.37
4.250	0.00	0.20	0.542	0					2.36
4.333	0.00	0.20	0.540	0					2.36
4.417	0.00	0.20	0.539	0					2.35
4.500	0.00	0.20	0.538	0					2.35
4.583	0.00	0.20	0.536	0					2.34
4.667	0.00	0.20	0.535	0					2.34
4.750	0.00	0.20	0.534	0					2.33
4.833	0.00	0.20	0.532	0					2.33
4.917	0.00	0.20	0.531	0					2.33
5.000	0.00	0.20	0.530	0					2.32
5.083	0.00	0.20	0.528	0					2.32
5.167	0.00	0.20	0.527	0					2.31
5.250	0.00	0.20	0.526	0					2.31
5.333	0.00	0.20	0.524	0					2.30
5.417	0.00	0.20	0.523	0					2.30
5.500	0.00	0.20	0.522	0					2.29
5.583	0.00	0.20	0.520	0					2.29
5.667	0.00	0.20	0.519	0					2.28
5.750	0.00	0.20	0.518	0					2.28

5.833	0.00	0.20	0.516	0					2.27
5.917	0.00	0.20	0.515	0					2.27
6.000	0.00	0.20	0.513	0					2.26
6.083	0.00	0.20	0.512	0					2.26
6.167	0.00	0.20	0.511	0					2.25
6.250	0.00	0.20	0.509	0					2.25
6.333	0.00	0.20	0.508	0					2.24
6.417	0.00	0.20	0.507	0					2.24
6.500	0.00	0.20	0.505	0					2.23
6.583	0.00	0.20	0.504	0					2.23
6.667	0.00	0.20	0.503	0					2.22
6.750	0.00	0.20	0.501	0					2.22
6.833	0.00	0.20	0.500	0					2.21
6.917	0.00	0.20	0.499	0					2.21
7.000	0.00	0.20	0.497	0					2.20
7.083	0.00	0.20	0.496	0					2.20
7.167	0.00	0.20	0.495	0					2.19
7.250	0.00	0.20	0.493	0					2.19
7.333	0.00	0.20	0.492	0					2.19
7.417	0.00	0.20	0.490	0					2.18
7.500	0.00	0.20	0.489	0					2.18
7.583	0.00	0.20	0.488	0					2.17
7.667	0.00	0.20	0.486	0					2.17
7.750	0.00	0.20	0.485	0					2.16
7.833	0.00	0.20	0.484	0					2.16
7.917	0.00	0.20	0.482	0					2.15
8.000	0.00	0.20	0.481	0					2.15
8.083	0.00	0.20	0.480	0					2.14
8.167	0.00	0.20	0.478	0					2.14
8.250	0.00	0.20	0.477	0					2.13
8.333	0.00	0.20	0.476	0					2.13
8.417	0.00	0.20	0.474	0					2.12
8.500	0.00	0.20	0.473	0					2.12
8.583	0.00	0.20	0.472	0					2.11
8.667	0.00	0.20	0.470	0					2.11
8.750	0.00	0.20	0.469	0					2.10
8.833	0.00	0.20	0.467	0					2.10
8.917	0.00	0.20	0.466	0					2.09
9.000	0.00	0.20	0.465	0					2.09
9.083	0.00	0.20	0.463	0					2.08
9.167	0.00	0.20	0.462	0					2.08
9.250	0.00	0.20	0.461	0					2.07
9.333	0.00	0.20	0.459	0					2.07
9.417	0.00	0.20	0.458	0					2.06
9.500	0.00	0.20	0.457	0					2.06
9.583	0.00	0.20	0.455	0					2.05
9.667	0.00	0.20	0.454	0					2.05
9.750	0.00	0.20	0.453	0					2.04
9.833	0.00	0.20	0.451	0					2.04
9.917	0.00	0.20	0.450	0					2.04

10.000	0.00	0.20	0.449	0					2.03
10.083	0.00	0.20	0.447	0					2.03
10.167	0.00	0.20	0.446	0					2.02
10.250	0.00	0.20	0.444	0					2.02
10.333	0.00	0.20	0.443	0					2.01
10.417	0.00	0.20	0.442	0					2.01
10.500	0.00	0.20	0.440	0					2.00
10.583	0.00	0.20	0.439	0					2.00
10.667	0.00	0.20	0.438	0					1.99
10.750	0.00	0.20	0.436	0					1.99
10.833	0.00	0.20	0.435	0					1.98
10.917	0.00	0.20	0.434	0					1.98
11.000	0.00	0.20	0.432	0					1.97
11.083	0.00	0.20	0.431	0					1.96
11.167	0.00	0.20	0.430	0					1.96
11.250	0.00	0.20	0.428	0					1.95
11.333	0.00	0.20	0.427	0					1.95
11.417	0.00	0.20	0.426	0					1.94
11.500	0.00	0.20	0.424	0					1.94
11.583	0.00	0.20	0.423	0					1.93
11.667	0.00	0.20	0.421	0					1.93
11.750	0.00	0.20	0.420	0					1.92
11.833	0.00	0.20	0.419	0					1.92
11.917	0.00	0.20	0.417	0					1.91
12.000	0.00	0.20	0.416	0					1.91
12.083	0.00	0.20	0.415	0					1.90
12.167	0.00	0.20	0.413	0					1.90
12.250	0.00	0.20	0.412	0					1.89
12.333	0.00	0.20	0.411	0					1.88
12.417	0.00	0.20	0.409	0					1.88
12.500	0.00	0.20	0.408	0					1.87
12.583	0.00	0.20	0.407	0					1.87
12.667	0.00	0.20	0.405	0					1.86
12.750	0.00	0.20	0.404	0					1.86
12.833	0.00	0.20	0.403	0					1.85
12.917	0.00	0.20	0.401	0					1.85
13.000	0.00	0.20	0.400	0					1.84
13.083	0.00	0.20	0.399	0					1.84
13.167	0.00	0.20	0.397	0					1.83
13.250	0.00	0.20	0.396	0					1.83
13.333	0.00	0.20	0.394	0					1.82
13.417	0.00	0.20	0.393	0					1.82
13.500	0.00	0.20	0.392	0					1.81
13.583	0.00	0.20	0.390	0					1.80
13.667	0.00	0.20	0.389	0					1.80
13.750	0.00	0.20	0.388	0					1.79
13.833	0.00	0.20	0.386	0					1.79
13.917	0.00	0.20	0.385	0					1.78
14.000	0.00	0.20	0.384	0					1.78
14.083	0.00	0.20	0.382	0					1.77

14.167	0.00	0.20	0.381	0					1.77
14.250	0.00	0.20	0.380	0					1.76
14.333	0.00	0.20	0.378	0					1.76
14.417	0.00	0.20	0.377	0					1.75
14.500	0.00	0.20	0.376	0					1.75
14.583	0.00	0.20	0.374	0					1.74
14.667	0.00	0.20	0.373	0					1.74
14.750	0.00	0.20	0.371	0					1.73
14.833	0.00	0.20	0.370	0					1.72
14.917	0.00	0.20	0.369	0					1.72
15.000	0.00	0.20	0.367	0					1.71
15.083	0.00	0.20	0.366	0					1.71
15.167	0.00	0.20	0.365	0					1.70
15.250	0.00	0.20	0.363	0					1.70
15.333	0.00	0.20	0.362	0					1.69
15.417	0.00	0.20	0.361	0					1.69
15.500	0.00	0.20	0.359	0					1.68
15.583	0.00	0.20	0.358	0					1.68
15.667	0.00	0.20	0.357	0					1.67
15.750	0.00	0.20	0.355	0					1.67
15.833	0.00	0.20	0.354	0					1.66
15.917	0.00	0.20	0.353	0					1.66
16.000	0.00	0.20	0.351	0					1.65
16.083	0.00	0.20	0.350	0					1.64
16.167	0.00	0.20	0.348	0					1.64
16.250	0.00	0.20	0.347	0					1.63
16.333	0.00	0.20	0.346	0					1.63
16.417	0.00	0.20	0.344	0					1.62
16.500	0.00	0.20	0.343	0					1.62
16.583	0.00	0.20	0.342	0					1.61
16.667	0.00	0.20	0.340	0					1.61
16.750	0.00	0.20	0.339	0					1.60
16.833	0.00	0.20	0.338	0					1.60
16.917	0.00	0.20	0.336	0					1.59
17.000	0.00	0.20	0.335	0					1.59
17.083	0.00	0.20	0.334	0					1.58
17.167	0.00	0.20	0.332	0					1.58
17.250	0.00	0.20	0.331	0					1.57
17.333	0.00	0.20	0.330	0					1.57
17.417	0.00	0.20	0.328	0					1.56
17.500	0.00	0.20	0.327	0					1.55
17.583	0.00	0.20	0.325	0					1.55
17.667	0.00	0.20	0.324	0					1.54
17.750	0.00	0.20	0.323	0					1.54
17.833	0.00	0.20	0.321	0					1.53
17.917	0.00	0.20	0.320	0					1.53
18.000	0.00	0.20	0.319	0					1.52
18.083	0.00	0.20	0.317	0					1.52
18.167	0.00	0.20	0.316	0					1.51
18.250	0.00	0.20	0.315	0					1.51

18.333	0.00	0.20	0.313	0					1.50
18.417	0.00	0.20	0.312	0					1.50
18.500	0.00	0.20	0.311	0					1.49
18.583	0.00	0.20	0.309	0					1.48
18.667	0.00	0.20	0.308	0					1.48
18.750	0.00	0.20	0.307	0					1.47
18.833	0.00	0.20	0.305	0					1.47
18.917	0.00	0.20	0.304	0					1.46
19.000	0.00	0.20	0.302	0					1.45
19.083	0.00	0.20	0.301	0					1.45
19.167	0.00	0.20	0.300	0					1.44
19.250	0.00	0.20	0.298	0					1.44
19.333	0.00	0.20	0.297	0					1.43
19.417	0.00	0.20	0.296	0					1.43
19.500	0.00	0.20	0.294	0					1.42
19.583	0.00	0.20	0.293	0					1.41
19.667	0.00	0.20	0.292	0					1.41
19.750	0.00	0.20	0.290	0					1.40
19.833	0.00	0.20	0.289	0					1.40
19.917	0.00	0.20	0.288	0					1.39
20.000	0.00	0.20	0.286	0					1.38
20.083	0.00	0.20	0.285	0					1.38
20.167	0.00	0.20	0.284	0					1.37
20.250	0.00	0.20	0.282	0					1.37
20.333	0.00	0.20	0.281	0					1.36
20.417	0.00	0.20	0.280	0					1.36
20.500	0.00	0.20	0.278	0					1.35
20.583	0.00	0.20	0.277	0					1.34
20.667	0.00	0.20	0.275	0					1.34
20.750	0.00	0.20	0.274	0					1.33
20.833	0.00	0.20	0.273	0					1.33
20.917	0.00	0.20	0.271	0					1.32
21.000	0.00	0.20	0.270	0					1.31
21.083	0.00	0.20	0.269	0					1.31
21.167	0.00	0.20	0.267	0					1.30
21.250	0.00	0.20	0.266	0					1.30
21.333	0.00	0.20	0.265	0					1.29
21.417	0.00	0.20	0.263	0					1.29
21.500	0.00	0.20	0.262	0					1.28
21.583	0.00	0.20	0.261	0					1.27
21.667	0.00	0.20	0.259	0					1.27
21.750	0.00	0.20	0.258	0					1.26
21.833	0.00	0.20	0.257	0					1.26
21.917	0.00	0.20	0.255	0					1.25
22.000	0.00	0.20	0.254	0					1.24
22.083	0.00	0.20	0.252	0					1.24
22.167	0.00	0.20	0.251	0					1.23
22.250	0.00	0.20	0.250	0					1.23
22.333	0.00	0.20	0.248	0					1.22
22.417	0.00	0.20	0.247	0					1.22

22.500	0.00	0.20	0.246	0					1.21
22.583	0.00	0.20	0.244	0					1.20
22.667	0.00	0.20	0.243	0					1.20
22.750	0.00	0.20	0.242	0					1.19
22.833	0.00	0.20	0.240	0					1.19
22.917	0.00	0.20	0.239	0					1.18
23.000	0.00	0.20	0.238	0					1.17
23.083	0.00	0.20	0.236	0					1.17
23.167	0.00	0.20	0.235	0					1.16
23.250	0.00	0.20	0.234	0					1.16
23.333	0.00	0.20	0.232	0					1.15
23.417	0.00	0.20	0.231	0					1.15
23.500	0.00	0.20	0.229	0					1.14
23.583	0.00	0.20	0.228	0					1.13
23.667	0.00	0.20	0.227	0					1.13
23.750	0.00	0.20	0.225	0					1.12
23.833	0.00	0.20	0.224	0					1.12
23.917	0.00	0.20	0.223	0					1.11
24.000	0.00	0.20	0.221	0					1.11
24.083	0.00	0.20	0.220	0					1.10
24.167	0.00	0.20	0.219	0					1.09
24.250	0.00	0.20	0.217	0					1.09
24.333	0.00	0.20	0.216	0					1.08
24.417	0.00	0.20	0.215	0					1.08
24.500	0.00	0.20	0.213	0					1.07
24.583	0.00	0.20	0.212	0					1.06
24.667	0.00	0.20	0.211	0					1.06
24.750	0.00	0.20	0.209	0					1.05
24.833	0.00	0.20	0.208	0					1.05
24.917	0.00	0.20	0.206	0					1.04
25.000	0.00	0.20	0.205	0					1.04
25.083	0.00	0.20	0.204	0					1.03
25.167	0.00	0.20	0.202	0					1.02
25.250	0.00	0.20	0.201	0					1.02
25.333	0.00	0.20	0.200	0					1.01
25.417	0.00	0.20	0.198	0					1.01
25.500	0.00	0.20	0.197	0					1.00
25.583	0.00	0.19	0.196	0					0.99
25.667	0.00	0.19	0.194	0					0.99
25.750	0.00	0.19	0.193	0					0.98
25.833	0.00	0.19	0.192	0					0.97
25.917	0.00	0.18	0.190	0					0.97
26.000	0.00	0.18	0.189	0					0.96
26.083	0.00	0.18	0.188	0					0.96
26.167	0.00	0.18	0.187	0					0.95
26.250	0.00	0.17	0.186	0					0.94
26.333	0.00	0.17	0.184	0					0.94
26.417	0.00	0.17	0.183	0					0.93
26.500	0.00	0.17	0.182	0					0.93
26.583	0.00	0.17	0.181	0					0.92

26.667	0.00	0.16	0.180	0					0.92
26.750	0.00	0.16	0.179	0					0.91
26.833	0.00	0.16	0.177	0					0.91
26.917	0.00	0.16	0.176	0					0.90
27.000	0.00	0.16	0.175	0					0.90
27.083	0.00	0.15	0.174	0					0.89
27.167	0.00	0.15	0.173	0					0.89
27.250	0.00	0.15	0.172	0					0.88
27.333	0.00	0.15	0.171	0					0.88
27.417	0.00	0.15	0.170	0					0.87
27.500	0.00	0.14	0.169	0					0.87
27.583	0.00	0.14	0.168	0					0.86
27.667	0.00	0.14	0.167	0					0.86
27.750	0.00	0.14	0.166	0					0.85
27.833	0.00	0.14	0.165	0					0.85
27.917	0.00	0.13	0.164	0					0.84
28.000	0.00	0.13	0.163	0					0.84
28.083	0.00	0.13	0.163	0					0.83
28.167	0.00	0.13	0.162	0					0.83
28.250	0.00	0.13	0.161	0					0.83
28.333	0.00	0.13	0.160	0					0.82
28.417	0.00	0.12	0.159	0					0.82
28.500	0.00	0.12	0.158	0					0.81
28.583	0.00	0.12	0.157	0					0.81
28.667	0.00	0.12	0.156	0					0.81
28.750	0.00	0.12	0.156	0					0.80
28.833	0.00	0.12	0.155	0					0.80
28.917	0.00	0.12	0.154	0					0.79
29.000	0.00	0.11	0.153	0					0.79
29.083	0.00	0.11	0.152	0					0.79
29.167	0.00	0.11	0.152	0					0.78
29.250	0.00	0.11	0.151	0					0.78
29.333	0.00	0.11	0.150	0					0.77
29.417	0.00	0.11	0.149	0					0.77
29.500	0.00	0.11	0.149	0					0.77
29.583	0.00	0.10	0.148	0					0.76
29.667	0.00	0.10	0.147	0					0.76
29.750	0.00	0.10	0.147	0					0.76
29.833	0.00	0.10	0.146	0					0.75
29.917	0.00	0.10	0.145	0					0.75
30.000	0.00	0.10	0.145	0					0.75
30.083	0.00	0.10	0.144	0					0.74
30.167	0.00	0.09	0.143	0					0.74
30.250	0.00	0.09	0.143	0					0.74
30.333	0.00	0.09	0.142	0					0.74
30.417	0.00	0.09	0.141	0					0.73
30.500	0.00	0.09	0.141	0					0.73
30.583	0.00	0.09	0.140	0					0.73
30.667	0.00	0.09	0.139	0					0.72
30.750	0.00	0.09	0.139	0					0.72

30.833	0.00	0.09	0.138	0					0.72
30.917	0.00	0.08	0.138	0					0.71
31.000	0.00	0.08	0.137	0					0.71
31.083	0.00	0.08	0.137	0					0.71
31.167	0.00	0.08	0.136	0					0.71
31.250	0.00	0.08	0.135	0					0.70
31.333	0.00	0.08	0.135	0					0.70
31.417	0.00	0.08	0.134	0					0.70
31.500	0.00	0.08	0.134	0					0.70
31.583	0.00	0.08	0.133	0					0.69
31.667	0.00	0.08	0.133	0					0.69
31.750	0.00	0.07	0.132	0					0.69
31.833	0.00	0.07	0.132	0					0.69
31.917	0.00	0.07	0.131	0					0.68
32.000	0.00	0.07	0.131	0					0.68
32.083	0.00	0.07	0.130	0					0.68
32.167	0.00	0.07	0.130	0					0.68
32.250	0.00	0.07	0.129	0					0.67
32.333	0.00	0.07	0.129	0					0.67
32.417	0.00	0.07	0.128	0					0.67
32.500	0.00	0.07	0.128	0					0.67
32.583	0.00	0.07	0.127	0					0.67
32.667	0.00	0.06	0.127	0					0.66
32.750	0.00	0.06	0.127	0					0.66
32.833	0.00	0.06	0.126	0					0.66
32.917	0.00	0.06	0.126	0					0.66
33.000	0.00	0.06	0.125	0					0.66
33.083	0.00	0.06	0.125	0					0.65
33.167	0.00	0.06	0.124	0					0.65
33.250	0.00	0.06	0.124	0					0.65
33.333	0.00	0.06	0.124	0					0.65
33.417	0.00	0.06	0.123	0					0.65
33.500	0.00	0.06	0.123	0					0.64
33.583	0.00	0.06	0.122	0					0.64
33.667	0.00	0.05	0.122	0					0.64
33.750	0.00	0.05	0.122	0					0.64
33.833	0.00	0.05	0.121	0					0.64
33.917	0.00	0.05	0.121	0					0.63
34.000	0.00	0.05	0.121	0					0.63
34.083	0.00	0.05	0.120	0					0.63
34.167	0.00	0.05	0.120	0					0.63
34.250	0.00	0.05	0.120	0					0.63
34.333	0.00	0.05	0.119	0					0.63
34.417	0.00	0.05	0.119	0					0.62
34.500	0.00	0.05	0.119	0					0.62
34.583	0.00	0.05	0.118	0					0.62
34.667	0.00	0.05	0.118	0					0.62
34.750	0.00	0.05	0.118	0					0.62
34.833	0.00	0.05	0.117	0					0.62
34.917	0.00	0.05	0.117	0					0.62

35.000	0.00	0.04	0.117	0					0.61
35.083	0.00	0.04	0.116	0					0.61
35.167	0.00	0.04	0.116	0					0.61
35.250	0.00	0.04	0.116	0					0.61
35.333	0.00	0.04	0.115	0					0.61
35.417	0.00	0.04	0.115	0					0.61
35.500	0.00	0.04	0.115	0					0.61
35.583	0.00	0.04	0.115	0					0.60
35.667	0.00	0.04	0.114	0					0.60
35.750	0.00	0.04	0.114	0					0.60
35.833	0.00	0.04	0.114	0					0.60
35.917	0.00	0.04	0.113	0					0.60
36.000	0.00	0.04	0.113	0					0.60
36.083	0.00	0.04	0.113	0					0.60
36.167	0.00	0.04	0.113	0					0.59
36.250	0.00	0.04	0.112	0					0.59
36.333	0.00	0.04	0.112	0					0.59
36.417	0.00	0.04	0.112	0					0.59
36.500	0.00	0.04	0.112	0					0.59
36.583	0.00	0.03	0.111	0					0.59
36.667	0.00	0.03	0.111	0					0.59
36.750	0.00	0.03	0.111	0					0.59
36.833	0.00	0.03	0.111	0					0.59
36.917	0.00	0.03	0.111	0					0.58
37.000	0.00	0.03	0.110	0					0.58
37.083	0.00	0.03	0.110	0					0.58
37.167	0.00	0.03	0.110	0					0.58
37.250	0.00	0.03	0.110	0					0.58
37.333	0.00	0.03	0.109	0					0.58
37.417	0.00	0.03	0.109	0					0.58
37.500	0.00	0.03	0.109	0					0.58
37.583	0.00	0.03	0.109	0					0.58
37.667	0.00	0.03	0.109	0					0.57
37.750	0.00	0.03	0.108	0					0.57
37.833	0.00	0.03	0.108	0					0.57
37.917	0.00	0.03	0.108	0					0.57
38.000	0.00	0.03	0.108	0					0.57
38.083	0.00	0.03	0.108	0					0.57
38.167	0.00	0.03	0.107	0					0.57
38.250	0.00	0.03	0.107	0					0.57
38.333	0.00	0.03	0.107	0					0.57
38.417	0.00	0.03	0.107	0					0.57
38.500	0.00	0.03	0.107	0					0.57
38.583	0.00	0.03	0.107	0					0.56
38.667	0.00	0.03	0.106	0					0.56
38.750	0.00	0.02	0.106	0					0.56
38.833	0.00	0.02	0.106	0					0.56
38.917	0.00	0.02	0.106	0					0.56
39.000	0.00	0.02	0.106	0					0.56
39.083	0.00	0.02	0.105	0					0.56

39.167	0.00	0.02	0.105	0					0.56
39.250	0.00	0.02	0.105	0					0.56
39.333	0.00	0.02	0.105	0					0.56
39.417	0.00	0.02	0.105	0					0.56
39.500	0.00	0.02	0.105	0					0.56
39.583	0.00	0.02	0.105	0					0.56
39.667	0.00	0.02	0.104	0					0.55
39.750	0.00	0.02	0.104	0					0.55
39.833	0.00	0.02	0.104	0					0.55
39.917	0.00	0.02	0.104	0					0.55
40.000	0.00	0.02	0.104	0					0.55
40.083	0.00	0.02	0.104	0					0.55
40.167	0.00	0.02	0.104	0					0.55
40.250	0.00	0.02	0.103	0					0.55
40.333	0.00	0.02	0.103	0					0.55
40.417	0.00	0.02	0.103	0					0.55
40.500	0.00	0.02	0.103	0					0.55
40.583	0.00	0.02	0.103	0					0.55
40.667	0.00	0.02	0.103	0					0.55
40.750	0.00	0.02	0.103	0					0.55
40.833	0.00	0.02	0.103	0					0.55
40.917	0.00	0.02	0.102	0					0.55
41.000	0.00	0.02	0.102	0					0.54
41.083	0.00	0.02	0.102	0					0.54
41.167	0.00	0.02	0.102	0					0.54
41.250	0.00	0.02	0.102	0					0.54
41.333	0.00	0.02	0.102	0					0.54
41.417	0.00	0.02	0.102	0					0.54
41.500	0.00	0.02	0.102	0					0.54
41.583	0.00	0.02	0.101	0					0.54
41.667	0.00	0.02	0.101	0					0.54
41.750	0.00	0.02	0.101	0					0.54
41.833	0.00	0.02	0.101	0					0.54
41.917	0.00	0.02	0.101	0					0.54
42.000	0.00	0.01	0.101	0					0.54
42.083	0.00	0.01	0.101	0					0.54
42.167	0.00	0.01	0.101	0					0.54
42.250	0.00	0.01	0.101	0					0.54
42.333	0.00	0.01	0.101	0					0.54
42.417	0.00	0.01	0.100	0					0.54
42.500	0.00	0.01	0.100	0					0.54
42.583	0.00	0.01	0.100	0					0.53
42.667	0.00	0.01	0.100	0					0.53
42.750	0.00	0.01	0.100	0					0.53
42.833	0.00	0.01	0.100	0					0.53
42.917	0.00	0.01	0.100	0					0.53
43.000	0.00	0.01	0.100	0					0.53
43.083	0.00	0.01	0.100	0					0.53
43.167	0.00	0.01	0.100	0					0.53
43.250	0.00	0.01	0.100	0					0.53

43.333	0.00	0.01	0.099	0					0.53
43.417	0.00	0.01	0.099	0					0.53
43.500	0.00	0.01	0.099	0					0.53
43.583	0.00	0.01	0.099	0					0.53
43.667	0.00	0.01	0.099	0					0.53
43.750	0.00	0.01	0.099	0					0.53
43.833	0.00	0.01	0.099	0					0.53
43.917	0.00	0.01	0.099	0					0.53
44.000	0.00	0.01	0.099	0					0.53
44.083	0.00	0.01	0.099	0					0.53
44.167	0.00	0.01	0.099	0					0.53
44.250	0.00	0.01	0.099	0					0.53
44.333	0.00	0.01	0.099	0					0.53
44.417	0.00	0.01	0.098	0					0.53
44.500	0.00	0.01	0.098	0					0.53
44.583	0.00	0.01	0.098	0					0.53
44.667	0.00	0.01	0.098	0					0.53
44.750	0.00	0.01	0.098	0					0.52
44.833	0.00	0.01	0.098	0					0.52
44.917	0.00	0.01	0.098	0					0.52
45.000	0.00	0.01	0.098	0					0.52
45.083	0.00	0.01	0.098	0					0.52
45.167	0.00	0.01	0.098	0					0.52
45.250	0.00	0.01	0.098	0					0.52
45.333	0.00	0.01	0.098	0					0.52
45.417	0.00	0.01	0.098	0					0.52
45.500	0.00	0.01	0.098	0					0.52
45.583	0.00	0.01	0.098	0					0.52
45.667	0.00	0.01	0.097	0					0.52
45.750	0.00	0.01	0.097	0					0.52
45.833	0.00	0.01	0.097	0					0.52
45.917	0.00	0.01	0.097	0					0.52
46.000	0.00	0.01	0.097	0					0.52
46.083	0.00	0.01	0.097	0					0.52
46.167	0.00	0.01	0.097	0					0.52
46.250	0.00	0.01	0.097	0					0.52
46.333	0.00	0.01	0.097	0					0.52
46.417	0.00	0.01	0.097	0					0.52
46.500	0.00	0.01	0.097	0					0.52
46.583	0.00	0.01	0.097	0					0.52
46.667	0.00	0.01	0.097	0					0.52
46.750	0.00	0.01	0.097	0					0.52
46.833	0.00	0.01	0.097	0					0.52
46.917	0.00	0.01	0.097	0					0.52
47.000	0.00	0.01	0.097	0					0.52
47.083	0.00	0.01	0.097	0					0.52
47.167	0.00	0.01	0.097	0					0.52
47.250	0.00	0.01	0.096	0					0.52
47.333	0.00	0.01	0.096	0					0.52
47.417	0.00	0.01	0.096	0					0.52

47.500	0.00	0.01	0.096	0					0.52
47.583	0.00	0.01	0.096	0					0.52
47.667	0.00	0.01	0.096	0					0.52
47.750	0.00	0.01	0.096	0					0.52
47.833	0.00	0.01	0.096	0					0.52
47.917	0.00	0.01	0.096	0					0.52
48.000	0.00	0.01	0.096	0					0.51
48.083	0.00	0.01	0.096	0					0.51
48.167	0.00	0.01	0.096	0					0.51
48.250	0.00	0.01	0.096	0					0.51
48.333	0.00	0.01	0.096	0					0.51
48.417	0.00	0.01	0.096	0					0.51
48.500	0.00	0.01	0.096	0					0.51
48.583	0.00	0.01	0.096	0					0.51
48.667	0.00	0.01	0.096	0					0.51
48.750	0.00	0.01	0.096	0					0.51
48.833	0.00	0.01	0.096	0					0.51
48.917	0.00	0.01	0.096	0					0.51
49.000	0.00	0.01	0.096	0					0.51
49.083	0.00	0.00	0.096	0					0.51
49.167	0.00	0.00	0.096	0					0.51
49.250	0.00	0.00	0.096	0					0.51
49.333	0.00	0.00	0.096	0					0.51
49.417	0.00	0.00	0.095	0					0.51
49.500	0.00	0.00	0.095	0					0.51
49.583	0.00	0.00	0.095	0					0.51
49.667	0.00	0.00	0.095	0					0.51
49.750	0.00	0.00	0.095	0					0.51
49.833	0.00	0.00	0.095	0					0.51
49.917	0.00	0.00	0.095	0					0.51
50.000	0.00	0.00	0.095	0					0.51
50.083	0.00	0.00	0.095	0					0.51
50.167	0.00	0.00	0.095	0					0.51
50.250	0.00	0.00	0.095	0					0.51
50.333	0.00	0.00	0.095	0					0.51
50.417	0.00	0.00	0.095	0					0.51
50.500	0.00	0.00	0.095	0					0.51
50.583	0.00	0.00	0.095	0					0.51
50.667	0.00	0.00	0.095	0					0.51
50.750	0.00	0.00	0.095	0					0.51
50.833	0.00	0.00	0.095	0					0.51
50.917	0.00	0.00	0.095	0					0.51
51.000	0.00	0.00	0.095	0					0.51
51.083	0.00	0.00	0.095	0					0.51
51.167	0.00	0.00	0.095	0					0.51
51.250	0.00	0.00	0.095	0					0.51
51.333	0.00	0.00	0.095	0					0.51
51.417	0.00	0.00	0.095	0					0.51
51.500	0.00	0.00	0.095	0					0.51
51.583	0.00	0.00	0.095	0					0.51

51.667	0.00	0.00	0.095	0					0.51
51.750	0.00	0.00	0.095	0					0.51
51.833	0.00	0.00	0.095	0					0.51
51.917	0.00	0.00	0.095	0					0.51
52.000	0.00	0.00	0.095	0					0.51
52.083	0.00	0.00	0.095	0					0.51
52.167	0.00	0.00	0.095	0					0.51
52.250	0.00	0.00	0.095	0					0.51
52.333	0.00	0.00	0.095	0					0.51
52.417	0.00	0.00	0.095	0					0.51
52.500	0.00	0.00	0.095	0					0.51
52.583	0.00	0.00	0.095	0					0.51
52.667	0.00	0.00	0.095	0					0.51
52.750	0.00	0.00	0.094	0					0.51
52.833	0.00	0.00	0.094	0					0.51
52.917	0.00	0.00	0.094	0					0.51
53.000	0.00	0.00	0.094	0					0.51
53.083	0.00	0.00	0.094	0					0.51
53.167	0.00	0.00	0.094	0					0.51
53.250	0.00	0.00	0.094	0					0.51
53.333	0.00	0.00	0.094	0					0.51
53.417	0.00	0.00	0.094	0					0.51
53.500	0.00	0.00	0.094	0					0.51
53.583	0.00	0.00	0.094	0					0.51
53.667	0.00	0.00	0.094	0					0.51
53.750	0.00	0.00	0.094	0					0.51
53.833	0.00	0.00	0.094	0					0.51
53.917	0.00	0.00	0.094	0					0.51
54.000	0.00	0.00	0.094	0					0.51
54.083	0.00	0.00	0.094	0					0.51
54.167	0.00	0.00	0.094	0					0.51
54.250	0.00	0.00	0.094	0					0.51
54.333	0.00	0.00	0.094	0					0.51
54.417	0.00	0.00	0.094	0					0.51
54.500	0.00	0.00	0.094	0					0.51
54.583	0.00	0.00	0.094	0					0.51
54.667	0.00	0.00	0.094	0					0.51
54.750	0.00	0.00	0.094	0					0.51
54.833	0.00	0.00	0.094	0					0.51
54.917	0.00	0.00	0.094	0					0.51
55.000	0.00	0.00	0.094	0					0.51
55.083	0.00	0.00	0.094	0					0.50
55.167	0.00	0.00	0.094	0					0.50
55.250	0.00	0.00	0.094	0					0.50
55.333	0.00	0.00	0.094	0					0.50
55.417	0.00	0.00	0.094	0					0.50
55.500	0.00	0.00	0.094	0					0.50
55.583	0.00	0.00	0.094	0					0.50
55.667	0.00	0.00	0.094	0					0.50
55.750	0.00	0.00	0.094	0					0.50

55.833	0.00	0.00	0.094	0					0.50
55.917	0.00	0.00	0.094	0					0.50
56.000	0.00	0.00	0.094	0					0.50
56.083	0.00	0.00	0.094	0					0.50
56.167	0.00	0.00	0.094	0					0.50
56.250	0.00	0.00	0.094	0					0.50
56.333	0.00	0.00	0.094	0					0.50
56.417	0.00	0.00	0.094	0					0.50
56.500	0.00	0.00	0.094	0					0.50
56.583	0.00	0.00	0.094	0					0.50
56.667	0.00	0.00	0.094	0					0.50
56.750	0.00	0.00	0.094	0					0.50
56.833	0.00	0.00	0.094	0					0.50
56.917	0.00	0.00	0.094	0					0.50
57.000	0.00	0.00	0.094	0					0.50
57.083	0.00	0.00	0.094	0					0.50
57.167	0.00	0.00	0.094	0					0.50
57.250	0.00	0.00	0.094	0					0.50
57.333	0.00	0.00	0.094	0					0.50
57.417	0.00	0.00	0.094	0					0.50
57.500	0.00	0.00	0.094	0					0.50
57.583	0.00	0.00	0.094	0					0.50
57.667	0.00	0.00	0.094	0					0.50
57.750	0.00	0.00	0.094	0					0.50
57.833	0.00	0.00	0.094	0					0.50
57.917	0.00	0.00	0.094	0					0.50
58.000	0.00	0.00	0.094	0					0.50
58.083	0.00	0.00	0.094	0					0.50
58.167	0.00	0.00	0.094	0					0.50
58.250	0.00	0.00	0.094	0					0.50
58.333	0.00	0.00	0.094	0					0.50
58.417	0.00	0.00	0.094	0					0.50
58.500	0.00	0.00	0.094	0					0.50
58.583	0.00	0.00	0.094	0					0.50
58.667	0.00	0.00	0.094	0					0.50
58.750	0.00	0.00	0.094	0					0.50
58.833	0.00	0.00	0.094	0					0.50
58.917	0.00	0.00	0.094	0					0.50
59.000	0.00	0.00	0.094	0					0.50
59.083	0.00	0.00	0.094	0					0.50
59.167	0.00	0.00	0.094	0					0.50
59.250	0.00	0.00	0.094	0					0.50
59.333	0.00	0.00	0.094	0					0.50
59.417	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 713
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.196 (CFS)
Total volume = 0.495 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 1 10YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH610.rte
*****HYDROGRAPH DATA*****
Number of intervals = 75
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 6.625 (CFS)
Total volume = 0.800 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 75

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.7	3.31	4.97	6.62	Depth (Ft.)
0.083	0.28	0.00	0.001	OI					0.01
0.167	0.56	0.00	0.004	O I					0.02
0.250	0.65	0.00	0.008	O I					0.04
0.333	0.66	0.00	0.013	O I					0.07
0.417	0.67	0.00	0.017	O I					0.09
0.500	0.72	0.00	0.022	O I					0.12
0.583	0.77	0.00	0.027	O I					0.15
0.667	0.77	0.00	0.032	O I					0.17
0.750	0.78	0.00	0.038	O I					0.20
0.833	0.78	0.00	0.043	O I					0.23
0.917	0.78	0.00	0.048	O I					0.26
1.000	0.83	0.00	0.054	O I					0.29
1.083	0.88	0.00	0.060	O I					0.32
1.167	0.89	0.00	0.066	O I					0.35
1.250	0.89	0.00	0.072	O I					0.39
1.333	0.89	0.00	0.078	O I					0.42
1.417	0.89	0.00	0.084	O I					0.45
1.500	0.89	0.00	0.090	O I					0.49
1.583	0.89	0.01	0.096	O I					0.52

5.833	0.66	0.20	0.733	0 I					3.00
5.917	0.46	0.20	0.736	0 I					3.01
6.000	0.30	0.20	0.737	0I					3.01
6.083	0.12	0.20	0.737	0					3.01
6.167	0.02	0.20	0.736	0					3.01
6.250	0.00	0.20	0.735	0					3.01
6.333	0.00	0.20	0.733	0					3.00
6.417	0.00	0.20	0.732	0					3.00
6.500	0.00	0.20	0.731	0					3.00
6.583	0.00	0.20	0.729	0					2.99
6.667	0.00	0.20	0.728	0					2.99
6.750	0.00	0.20	0.727	0					2.98
6.833	0.00	0.20	0.725	0					2.98
6.917	0.00	0.20	0.724	0					2.97
7.000	0.00	0.20	0.723	0					2.97
7.083	0.00	0.20	0.721	0					2.96
7.167	0.00	0.20	0.720	0					2.96
7.250	0.00	0.20	0.719	0					2.96
7.333	0.00	0.20	0.717	0					2.95
7.417	0.00	0.20	0.716	0					2.95
7.500	0.00	0.20	0.715	0					2.94
7.583	0.00	0.20	0.713	0					2.94
7.667	0.00	0.20	0.712	0					2.93
7.750	0.00	0.20	0.710	0					2.93
7.833	0.00	0.20	0.709	0					2.92
7.917	0.00	0.20	0.708	0					2.92
8.000	0.00	0.20	0.706	0					2.92
8.083	0.00	0.20	0.705	0					2.91
8.167	0.00	0.20	0.704	0					2.91
8.250	0.00	0.20	0.702	0					2.90
8.333	0.00	0.20	0.701	0					2.90
8.417	0.00	0.20	0.700	0					2.89
8.500	0.00	0.20	0.698	0					2.89
8.583	0.00	0.20	0.697	0					2.88
8.667	0.00	0.20	0.696	0					2.88
8.750	0.00	0.20	0.694	0					2.88
8.833	0.00	0.20	0.693	0					2.87
8.917	0.00	0.20	0.692	0					2.87
9.000	0.00	0.20	0.690	0					2.86
9.083	0.00	0.20	0.689	0					2.86
9.167	0.00	0.20	0.688	0					2.85
9.250	0.00	0.20	0.686	0					2.85
9.333	0.00	0.20	0.685	0					2.84
9.417	0.00	0.20	0.683	0					2.84
9.500	0.00	0.20	0.682	0					2.84
9.583	0.00	0.20	0.681	0					2.83
9.667	0.00	0.20	0.679	0					2.83
9.750	0.00	0.20	0.678	0					2.82
9.833	0.00	0.20	0.677	0					2.82
9.917	0.00	0.20	0.675	0					2.81

10.000	0.00	0.20	0.674	0					2.81
10.083	0.00	0.20	0.673	0					2.80
10.167	0.00	0.20	0.671	0					2.80
10.250	0.00	0.20	0.670	0					2.80
10.333	0.00	0.20	0.669	0					2.79
10.417	0.00	0.20	0.667	0					2.79
10.500	0.00	0.20	0.666	0					2.78
10.583	0.00	0.20	0.665	0					2.78
10.667	0.00	0.20	0.663	0					2.77
10.750	0.00	0.20	0.662	0					2.77
10.833	0.00	0.20	0.660	0					2.76
10.917	0.00	0.20	0.659	0					2.76
11.000	0.00	0.20	0.658	0					2.76
11.083	0.00	0.20	0.656	0					2.75
11.167	0.00	0.20	0.655	0					2.75
11.250	0.00	0.20	0.654	0					2.74
11.333	0.00	0.20	0.652	0					2.74
11.417	0.00	0.20	0.651	0					2.73
11.500	0.00	0.20	0.650	0					2.73
11.583	0.00	0.20	0.648	0					2.72
11.667	0.00	0.20	0.647	0					2.72
11.750	0.00	0.20	0.646	0					2.72
11.833	0.00	0.20	0.644	0					2.71
11.917	0.00	0.20	0.643	0					2.71
12.000	0.00	0.20	0.642	0					2.70
12.083	0.00	0.20	0.640	0					2.70
12.167	0.00	0.20	0.639	0					2.69
12.250	0.00	0.20	0.637	0					2.69
12.333	0.00	0.20	0.636	0					2.68
12.417	0.00	0.20	0.635	0					2.68
12.500	0.00	0.20	0.633	0					2.68
12.583	0.00	0.20	0.632	0					2.67
12.667	0.00	0.20	0.631	0					2.67
12.750	0.00	0.20	0.629	0					2.66
12.833	0.00	0.20	0.628	0					2.66
12.917	0.00	0.20	0.627	0					2.65
13.000	0.00	0.20	0.625	0					2.65
13.083	0.00	0.20	0.624	0					2.64
13.167	0.00	0.20	0.623	0					2.64
13.250	0.00	0.20	0.621	0					2.64
13.333	0.00	0.20	0.620	0					2.63
13.417	0.00	0.20	0.619	0					2.63
13.500	0.00	0.20	0.617	0					2.62
13.583	0.00	0.20	0.616	0					2.62
13.667	0.00	0.20	0.614	0					2.61
13.750	0.00	0.20	0.613	0					2.61
13.833	0.00	0.20	0.612	0					2.60
13.917	0.00	0.20	0.610	0					2.60
14.000	0.00	0.20	0.609	0					2.60
14.083	0.00	0.20	0.608	0					2.59

14.167	0.00	0.20	0.606	0					2.59
14.250	0.00	0.20	0.605	0					2.58
14.333	0.00	0.20	0.604	0					2.58
14.417	0.00	0.20	0.602	0					2.57
14.500	0.00	0.20	0.601	0					2.57
14.583	0.00	0.20	0.600	0					2.56
14.667	0.00	0.20	0.598	0					2.56
14.750	0.00	0.20	0.597	0					2.56
14.833	0.00	0.20	0.596	0					2.55
14.917	0.00	0.20	0.594	0					2.55
15.000	0.00	0.20	0.593	0					2.54
15.083	0.00	0.20	0.591	0					2.54
15.167	0.00	0.20	0.590	0					2.53
15.250	0.00	0.20	0.589	0					2.53
15.333	0.00	0.20	0.587	0					2.52
15.417	0.00	0.20	0.586	0					2.52
15.500	0.00	0.20	0.585	0					2.52
15.583	0.00	0.20	0.583	0					2.51
15.667	0.00	0.20	0.582	0					2.51
15.750	0.00	0.20	0.581	0					2.50
15.833	0.00	0.20	0.579	0					2.50
15.917	0.00	0.20	0.578	0					2.49
16.000	0.00	0.20	0.577	0					2.49
16.083	0.00	0.20	0.575	0					2.48
16.167	0.00	0.20	0.574	0					2.48
16.250	0.00	0.20	0.573	0					2.47
16.333	0.00	0.20	0.571	0					2.47
16.417	0.00	0.20	0.570	0					2.46
16.500	0.00	0.20	0.569	0					2.46
16.583	0.00	0.20	0.567	0					2.45
16.667	0.00	0.20	0.566	0					2.45
16.750	0.00	0.20	0.564	0					2.44
16.833	0.00	0.20	0.563	0					2.44
16.917	0.00	0.20	0.562	0					2.43
17.000	0.00	0.20	0.560	0					2.43
17.083	0.00	0.20	0.559	0					2.43
17.167	0.00	0.20	0.558	0					2.42
17.250	0.00	0.20	0.556	0					2.42
17.333	0.00	0.20	0.555	0					2.41
17.417	0.00	0.20	0.554	0					2.41
17.500	0.00	0.20	0.552	0					2.40
17.583	0.00	0.20	0.551	0					2.40
17.667	0.00	0.20	0.550	0					2.39
17.750	0.00	0.20	0.548	0					2.39
17.833	0.00	0.20	0.547	0					2.38
17.917	0.00	0.20	0.546	0					2.38
18.000	0.00	0.20	0.544	0					2.37
18.083	0.00	0.20	0.543	0					2.37
18.167	0.00	0.20	0.541	0					2.36
18.250	0.00	0.20	0.540	0					2.36

18.333	0.00	0.20	0.539	0					2.35
18.417	0.00	0.20	0.537	0					2.35
18.500	0.00	0.20	0.536	0					2.34
18.583	0.00	0.20	0.535	0					2.34
18.667	0.00	0.20	0.533	0					2.33
18.750	0.00	0.20	0.532	0					2.33
18.833	0.00	0.20	0.531	0					2.32
18.917	0.00	0.20	0.529	0					2.32
19.000	0.00	0.20	0.528	0					2.31
19.083	0.00	0.20	0.527	0					2.31
19.167	0.00	0.20	0.525	0					2.30
19.250	0.00	0.20	0.524	0					2.30
19.333	0.00	0.20	0.523	0					2.29
19.417	0.00	0.20	0.521	0					2.29
19.500	0.00	0.20	0.520	0					2.29
19.583	0.00	0.20	0.518	0					2.28
19.667	0.00	0.20	0.517	0					2.28
19.750	0.00	0.20	0.516	0					2.27
19.833	0.00	0.20	0.514	0					2.27
19.917	0.00	0.20	0.513	0					2.26
20.000	0.00	0.20	0.512	0					2.26
20.083	0.00	0.20	0.510	0					2.25
20.167	0.00	0.20	0.509	0					2.25
20.250	0.00	0.20	0.508	0					2.24
20.333	0.00	0.20	0.506	0					2.24
20.417	0.00	0.20	0.505	0					2.23
20.500	0.00	0.20	0.504	0					2.23
20.583	0.00	0.20	0.502	0					2.22
20.667	0.00	0.20	0.501	0					2.22
20.750	0.00	0.20	0.500	0					2.21
20.833	0.00	0.20	0.498	0					2.21
20.917	0.00	0.20	0.497	0					2.20
21.000	0.00	0.20	0.495	0					2.20
21.083	0.00	0.20	0.494	0					2.19
21.167	0.00	0.20	0.493	0					2.19
21.250	0.00	0.20	0.491	0					2.18
21.333	0.00	0.20	0.490	0					2.18
21.417	0.00	0.20	0.489	0					2.17
21.500	0.00	0.20	0.487	0					2.17
21.583	0.00	0.20	0.486	0					2.16
21.667	0.00	0.20	0.485	0					2.16
21.750	0.00	0.20	0.483	0					2.15
21.833	0.00	0.20	0.482	0					2.15
21.917	0.00	0.20	0.481	0					2.15
22.000	0.00	0.20	0.479	0					2.14
22.083	0.00	0.20	0.478	0					2.14
22.167	0.00	0.20	0.477	0					2.13
22.250	0.00	0.20	0.475	0					2.13
22.333	0.00	0.20	0.474	0					2.12
22.417	0.00	0.20	0.472	0					2.12

22.500	0.00	0.20	0.471	0					2.11
22.583	0.00	0.20	0.470	0					2.11
22.667	0.00	0.20	0.468	0					2.10
22.750	0.00	0.20	0.467	0					2.10
22.833	0.00	0.20	0.466	0					2.09
22.917	0.00	0.20	0.464	0					2.09
23.000	0.00	0.20	0.463	0					2.08
23.083	0.00	0.20	0.462	0					2.08
23.167	0.00	0.20	0.460	0					2.07
23.250	0.00	0.20	0.459	0					2.07
23.333	0.00	0.20	0.458	0					2.06
23.417	0.00	0.20	0.456	0					2.06
23.500	0.00	0.20	0.455	0					2.05
23.583	0.00	0.20	0.454	0					2.05
23.667	0.00	0.20	0.452	0					2.04
23.750	0.00	0.20	0.451	0					2.04
23.833	0.00	0.20	0.450	0					2.03
23.917	0.00	0.20	0.448	0					2.03
24.000	0.00	0.20	0.447	0					2.02
24.083	0.00	0.20	0.445	0					2.02
24.167	0.00	0.20	0.444	0					2.01
24.250	0.00	0.20	0.443	0					2.01
24.333	0.00	0.20	0.441	0					2.00
24.417	0.00	0.20	0.440	0					2.00
24.500	0.00	0.20	0.439	0					1.99
24.583	0.00	0.20	0.437	0					1.99
24.667	0.00	0.20	0.436	0					1.98
24.750	0.00	0.20	0.435	0					1.98
24.833	0.00	0.20	0.433	0					1.97
24.917	0.00	0.20	0.432	0					1.97
25.000	0.00	0.20	0.431	0					1.96
25.083	0.00	0.20	0.429	0					1.96
25.167	0.00	0.20	0.428	0					1.95
25.250	0.00	0.20	0.427	0					1.95
25.333	0.00	0.20	0.425	0					1.94
25.417	0.00	0.20	0.424	0					1.94
25.500	0.00	0.20	0.422	0					1.93
25.583	0.00	0.20	0.421	0					1.93
25.667	0.00	0.20	0.420	0					1.92
25.750	0.00	0.20	0.418	0					1.91
25.833	0.00	0.20	0.417	0					1.91
25.917	0.00	0.20	0.416	0					1.90
26.000	0.00	0.20	0.414	0					1.90
26.083	0.00	0.20	0.413	0					1.89
26.167	0.00	0.20	0.412	0					1.89
26.250	0.00	0.20	0.410	0					1.88
26.333	0.00	0.20	0.409	0					1.88
26.417	0.00	0.20	0.408	0					1.87
26.500	0.00	0.20	0.406	0					1.87
26.583	0.00	0.20	0.405	0					1.86

26.667	0.00	0.20	0.404	0					1.86
26.750	0.00	0.20	0.402	0					1.85
26.833	0.00	0.20	0.401	0					1.85
26.917	0.00	0.20	0.399	0					1.84
27.000	0.00	0.20	0.398	0					1.84
27.083	0.00	0.20	0.397	0					1.83
27.167	0.00	0.20	0.395	0					1.82
27.250	0.00	0.20	0.394	0					1.82
27.333	0.00	0.20	0.393	0					1.81
27.417	0.00	0.20	0.391	0					1.81
27.500	0.00	0.20	0.390	0					1.80
27.583	0.00	0.20	0.389	0					1.80
27.667	0.00	0.20	0.387	0					1.79
27.750	0.00	0.20	0.386	0					1.79
27.833	0.00	0.20	0.385	0					1.78
27.917	0.00	0.20	0.383	0					1.78
28.000	0.00	0.20	0.382	0					1.77
28.083	0.00	0.20	0.381	0					1.77
28.167	0.00	0.20	0.379	0					1.76
28.250	0.00	0.20	0.378	0					1.76
28.333	0.00	0.20	0.376	0					1.75
28.417	0.00	0.20	0.375	0					1.74
28.500	0.00	0.20	0.374	0					1.74
28.583	0.00	0.20	0.372	0					1.73
28.667	0.00	0.20	0.371	0					1.73
28.750	0.00	0.20	0.370	0					1.72
28.833	0.00	0.20	0.368	0					1.72
28.917	0.00	0.20	0.367	0					1.71
29.000	0.00	0.20	0.366	0					1.71
29.083	0.00	0.20	0.364	0					1.70
29.167	0.00	0.20	0.363	0					1.70
29.250	0.00	0.20	0.362	0					1.69
29.333	0.00	0.20	0.360	0					1.69
29.417	0.00	0.20	0.359	0					1.68
29.500	0.00	0.20	0.358	0					1.68
29.583	0.00	0.20	0.356	0					1.67
29.667	0.00	0.20	0.355	0					1.66
29.750	0.00	0.20	0.353	0					1.66
29.833	0.00	0.20	0.352	0					1.65
29.917	0.00	0.20	0.351	0					1.65
30.000	0.00	0.20	0.349	0					1.64
30.083	0.00	0.20	0.348	0					1.64
30.167	0.00	0.20	0.347	0					1.63
30.250	0.00	0.20	0.345	0					1.63
30.333	0.00	0.20	0.344	0					1.62
30.417	0.00	0.20	0.343	0					1.62
30.500	0.00	0.20	0.341	0					1.61
30.583	0.00	0.20	0.340	0					1.61
30.667	0.00	0.20	0.339	0					1.60
30.750	0.00	0.20	0.337	0					1.60

30.833	0.00	0.20	0.336	0					1.59
30.917	0.00	0.20	0.335	0					1.58
31.000	0.00	0.20	0.333	0					1.58
31.083	0.00	0.20	0.332	0					1.57
31.167	0.00	0.20	0.331	0					1.57
31.250	0.00	0.20	0.329	0					1.56
31.333	0.00	0.20	0.328	0					1.56
31.417	0.00	0.20	0.326	0					1.55
31.500	0.00	0.20	0.325	0					1.55
31.583	0.00	0.20	0.324	0					1.54
31.667	0.00	0.20	0.322	0					1.54
31.750	0.00	0.20	0.321	0					1.53
31.833	0.00	0.20	0.320	0					1.53
31.917	0.00	0.20	0.318	0					1.52
32.000	0.00	0.20	0.317	0					1.52
32.083	0.00	0.20	0.316	0					1.51
32.167	0.00	0.20	0.314	0					1.51
32.250	0.00	0.20	0.313	0					1.50
32.333	0.00	0.20	0.312	0					1.49
32.417	0.00	0.20	0.310	0					1.49
32.500	0.00	0.20	0.309	0					1.48
32.583	0.00	0.20	0.308	0					1.48
32.667	0.00	0.20	0.306	0					1.47
32.750	0.00	0.20	0.305	0					1.46
32.833	0.00	0.20	0.303	0					1.46
32.917	0.00	0.20	0.302	0					1.45
33.000	0.00	0.20	0.301	0					1.45
33.083	0.00	0.20	0.299	0					1.44
33.167	0.00	0.20	0.298	0					1.44
33.250	0.00	0.20	0.297	0					1.43
33.333	0.00	0.20	0.295	0					1.42
33.417	0.00	0.20	0.294	0					1.42
33.500	0.00	0.20	0.293	0					1.41
33.583	0.00	0.20	0.291	0					1.41
33.667	0.00	0.20	0.290	0					1.40
33.750	0.00	0.20	0.289	0					1.39
33.833	0.00	0.20	0.287	0					1.39
33.917	0.00	0.20	0.286	0					1.38
34.000	0.00	0.20	0.285	0					1.38
34.083	0.00	0.20	0.283	0					1.37
34.167	0.00	0.20	0.282	0					1.37
34.250	0.00	0.20	0.280	0					1.36
34.333	0.00	0.20	0.279	0					1.35
34.417	0.00	0.20	0.278	0					1.35
34.500	0.00	0.20	0.276	0					1.34
34.583	0.00	0.20	0.275	0					1.34
34.667	0.00	0.20	0.274	0					1.33
34.750	0.00	0.20	0.272	0					1.32
34.833	0.00	0.20	0.271	0					1.32
34.917	0.00	0.20	0.270	0					1.31

35.000	0.00	0.20	0.268	0					1.31
35.083	0.00	0.20	0.267	0					1.30
35.167	0.00	0.20	0.266	0					1.30
35.250	0.00	0.20	0.264	0					1.29
35.333	0.00	0.20	0.263	0					1.28
35.417	0.00	0.20	0.262	0					1.28
35.500	0.00	0.20	0.260	0					1.27
35.583	0.00	0.20	0.259	0					1.27
35.667	0.00	0.20	0.257	0					1.26
35.750	0.00	0.20	0.256	0					1.25
35.833	0.00	0.20	0.255	0					1.25
35.917	0.00	0.20	0.253	0					1.24
36.000	0.00	0.20	0.252	0					1.24
36.083	0.00	0.20	0.251	0					1.23
36.167	0.00	0.20	0.249	0					1.23
36.250	0.00	0.20	0.248	0					1.22
36.333	0.00	0.20	0.247	0					1.21
36.417	0.00	0.20	0.245	0					1.21
36.500	0.00	0.20	0.244	0					1.20
36.583	0.00	0.20	0.243	0					1.20
36.667	0.00	0.20	0.241	0					1.19
36.750	0.00	0.20	0.240	0					1.18
36.833	0.00	0.20	0.239	0					1.18
36.917	0.00	0.20	0.237	0					1.17
37.000	0.00	0.20	0.236	0					1.17
37.083	0.00	0.20	0.234	0					1.16
37.167	0.00	0.20	0.233	0					1.16
37.250	0.00	0.20	0.232	0					1.15
37.333	0.00	0.20	0.230	0					1.14
37.417	0.00	0.20	0.229	0					1.14
37.500	0.00	0.20	0.228	0					1.13
37.583	0.00	0.20	0.226	0					1.13
37.667	0.00	0.20	0.225	0					1.12
37.750	0.00	0.20	0.224	0					1.11
37.833	0.00	0.20	0.222	0					1.11
37.917	0.00	0.20	0.221	0					1.10
38.000	0.00	0.20	0.220	0					1.10
38.083	0.00	0.20	0.218	0					1.09
38.167	0.00	0.20	0.217	0					1.09
38.250	0.00	0.20	0.216	0					1.08
38.333	0.00	0.20	0.214	0					1.07
38.417	0.00	0.20	0.213	0					1.07
38.500	0.00	0.20	0.212	0					1.06
38.583	0.00	0.20	0.210	0					1.06
38.667	0.00	0.20	0.209	0					1.05
38.750	0.00	0.20	0.207	0					1.05
38.833	0.00	0.20	0.206	0					1.04
38.917	0.00	0.20	0.205	0					1.03
39.000	0.00	0.20	0.203	0					1.03
39.083	0.00	0.20	0.202	0					1.02

39.167	0.00	0.20	0.201	0					1.02
39.250	0.00	0.20	0.199	0					1.01
39.333	0.00	0.20	0.198	0					1.00
39.417	0.00	0.20	0.197	0					1.00
39.500	0.00	0.19	0.195	0					0.99
39.583	0.00	0.19	0.194	0					0.99
39.667	0.00	0.19	0.193	0					0.98
39.750	0.00	0.19	0.191	0					0.97
39.833	0.00	0.18	0.190	0					0.97
39.917	0.00	0.18	0.189	0					0.96
40.000	0.00	0.18	0.188	0					0.95
40.083	0.00	0.18	0.186	0					0.95
40.167	0.00	0.17	0.185	0					0.94
40.250	0.00	0.17	0.184	0					0.94
40.333	0.00	0.17	0.183	0					0.93
40.417	0.00	0.17	0.182	0					0.93
40.500	0.00	0.17	0.181	0					0.92
40.583	0.00	0.16	0.179	0					0.92
40.667	0.00	0.16	0.178	0					0.91
40.750	0.00	0.16	0.177	0					0.90
40.833	0.00	0.16	0.176	0					0.90
40.917	0.00	0.15	0.175	0					0.89
41.000	0.00	0.15	0.174	0					0.89
41.083	0.00	0.15	0.173	0					0.88
41.167	0.00	0.15	0.172	0					0.88
41.250	0.00	0.15	0.171	0					0.87
41.333	0.00	0.15	0.170	0					0.87
41.417	0.00	0.14	0.169	0					0.86
41.500	0.00	0.14	0.168	0					0.86
41.583	0.00	0.14	0.167	0					0.86
41.667	0.00	0.14	0.166	0					0.85
41.750	0.00	0.14	0.165	0					0.85
41.833	0.00	0.13	0.164	0					0.84
41.917	0.00	0.13	0.163	0					0.84
42.000	0.00	0.13	0.162	0					0.83
42.083	0.00	0.13	0.161	0					0.83
42.167	0.00	0.13	0.160	0					0.82
42.250	0.00	0.13	0.160	0					0.82
42.333	0.00	0.12	0.159	0					0.82
42.417	0.00	0.12	0.158	0					0.81
42.500	0.00	0.12	0.157	0					0.81
42.583	0.00	0.12	0.156	0					0.80
42.667	0.00	0.12	0.155	0					0.80
42.750	0.00	0.12	0.155	0					0.80
42.833	0.00	0.11	0.154	0					0.79
42.917	0.00	0.11	0.153	0					0.79
43.000	0.00	0.11	0.152	0					0.78
43.083	0.00	0.11	0.151	0					0.78
43.167	0.00	0.11	0.151	0					0.78
43.250	0.00	0.11	0.150	0					0.77

43.333	0.00	0.11	0.149	0					0.77
43.417	0.00	0.10	0.149	0					0.77
43.500	0.00	0.10	0.148	0					0.76
43.583	0.00	0.10	0.147	0					0.76
43.667	0.00	0.10	0.146	0					0.76
43.750	0.00	0.10	0.146	0					0.75
43.833	0.00	0.10	0.145	0					0.75
43.917	0.00	0.10	0.144	0					0.75
44.000	0.00	0.10	0.144	0					0.74
44.083	0.00	0.09	0.143	0					0.74
44.167	0.00	0.09	0.142	0					0.74
44.250	0.00	0.09	0.142	0					0.73
44.333	0.00	0.09	0.141	0					0.73
44.417	0.00	0.09	0.140	0					0.73
44.500	0.00	0.09	0.140	0					0.73
44.583	0.00	0.09	0.139	0					0.72
44.667	0.00	0.09	0.139	0					0.72
44.750	0.00	0.09	0.138	0					0.72
44.833	0.00	0.08	0.138	0					0.71
44.917	0.00	0.08	0.137	0					0.71
45.000	0.00	0.08	0.136	0					0.71
45.083	0.00	0.08	0.136	0					0.71
45.167	0.00	0.08	0.135	0					0.70
45.250	0.00	0.08	0.135	0					0.70
45.333	0.00	0.08	0.134	0					0.70
45.417	0.00	0.08	0.134	0					0.70
45.500	0.00	0.08	0.133	0					0.69
45.583	0.00	0.07	0.133	0					0.69
45.667	0.00	0.07	0.132	0					0.69
45.750	0.00	0.07	0.132	0					0.69
45.833	0.00	0.07	0.131	0					0.68
45.917	0.00	0.07	0.131	0					0.68
46.000	0.00	0.07	0.130	0					0.68
46.083	0.00	0.07	0.130	0					0.68
46.167	0.00	0.07	0.129	0					0.67
46.250	0.00	0.07	0.129	0					0.67
46.333	0.00	0.07	0.128	0					0.67
46.417	0.00	0.07	0.128	0					0.67
46.500	0.00	0.06	0.127	0					0.66
46.583	0.00	0.06	0.127	0					0.66
46.667	0.00	0.06	0.126	0					0.66
46.750	0.00	0.06	0.126	0					0.66
46.833	0.00	0.06	0.126	0					0.66
46.917	0.00	0.06	0.125	0					0.65
47.000	0.00	0.06	0.125	0					0.65
47.083	0.00	0.06	0.124	0					0.65
47.167	0.00	0.06	0.124	0					0.65
47.250	0.00	0.06	0.124	0					0.65
47.333	0.00	0.06	0.123	0					0.64
47.417	0.00	0.06	0.123	0					0.64

47.500	0.00	0.06	0.122	0				0.64
47.583	0.00	0.05	0.122	0				0.64
47.667	0.00	0.05	0.122	0				0.64
47.750	0.00	0.05	0.121	0				0.64
47.833	0.00	0.05	0.121	0				0.63
47.917	0.00	0.05	0.121	0				0.63
48.000	0.00	0.05	0.120	0				0.63
48.083	0.00	0.05	0.120	0				0.63
48.167	0.00	0.05	0.119	0				0.63
48.250	0.00	0.05	0.119	0				0.63
48.333	0.00	0.05	0.119	0				0.62
48.417	0.00	0.05	0.118	0				0.62
48.500	0.00	0.05	0.118	0				0.62
48.583	0.00	0.05	0.118	0				0.62
48.667	0.00	0.05	0.117	0				0.62
48.750	0.00	0.05	0.117	0				0.62
48.833	0.00	0.05	0.117	0				0.61
48.917	0.00	0.04	0.117	0				0.61
49.000	0.00	0.04	0.116	0				0.61
49.083	0.00	0.04	0.116	0				0.61
49.167	0.00	0.04	0.116	0				0.61
49.250	0.00	0.04	0.115	0				0.61
49.333	0.00	0.04	0.115	0				0.61
49.417	0.00	0.04	0.115	0				0.60
49.500	0.00	0.04	0.114	0				0.60
49.583	0.00	0.04	0.114	0				0.60
49.667	0.00	0.04	0.114	0				0.60
49.750	0.00	0.04	0.114	0				0.60
49.833	0.00	0.04	0.113	0				0.60
49.917	0.00	0.04	0.113	0				0.60
50.000	0.00	0.04	0.113	0				0.60
50.083	0.00	0.04	0.113	0				0.59
50.167	0.00	0.04	0.112	0				0.59
50.250	0.00	0.04	0.112	0				0.59
50.333	0.00	0.04	0.112	0				0.59
50.417	0.00	0.04	0.112	0				0.59
50.500	0.00	0.03	0.111	0				0.59
50.583	0.00	0.03	0.111	0				0.59
50.667	0.00	0.03	0.111	0				0.59
50.750	0.00	0.03	0.111	0				0.59
50.833	0.00	0.03	0.110	0				0.58
50.917	0.00	0.03	0.110	0				0.58
51.000	0.00	0.03	0.110	0				0.58
51.083	0.00	0.03	0.110	0				0.58
51.167	0.00	0.03	0.110	0				0.58
51.250	0.00	0.03	0.109	0				0.58
51.333	0.00	0.03	0.109	0				0.58
51.417	0.00	0.03	0.109	0				0.58
51.500	0.00	0.03	0.109	0				0.58
51.583	0.00	0.03	0.109	0				0.57

51.667	0.00	0.03	0.108	0					0.57
51.750	0.00	0.03	0.108	0					0.57
51.833	0.00	0.03	0.108	0					0.57
51.917	0.00	0.03	0.108	0					0.57
52.000	0.00	0.03	0.108	0					0.57
52.083	0.00	0.03	0.107	0					0.57
52.167	0.00	0.03	0.107	0					0.57
52.250	0.00	0.03	0.107	0					0.57
52.333	0.00	0.03	0.107	0					0.57
52.417	0.00	0.03	0.107	0					0.57
52.500	0.00	0.03	0.106	0					0.56
52.583	0.00	0.03	0.106	0					0.56
52.667	0.00	0.02	0.106	0					0.56
52.750	0.00	0.02	0.106	0					0.56
52.833	0.00	0.02	0.106	0					0.56
52.917	0.00	0.02	0.106	0					0.56
53.000	0.00	0.02	0.105	0					0.56
53.083	0.00	0.02	0.105	0					0.56
53.167	0.00	0.02	0.105	0					0.56
53.250	0.00	0.02	0.105	0					0.56
53.333	0.00	0.02	0.105	0					0.56
53.417	0.00	0.02	0.105	0					0.56
53.500	0.00	0.02	0.105	0					0.56
53.583	0.00	0.02	0.104	0					0.55
53.667	0.00	0.02	0.104	0					0.55
53.750	0.00	0.02	0.104	0					0.55
53.833	0.00	0.02	0.104	0					0.55
53.917	0.00	0.02	0.104	0					0.55
54.000	0.00	0.02	0.104	0					0.55
54.083	0.00	0.02	0.104	0					0.55
54.167	0.00	0.02	0.103	0					0.55
54.250	0.00	0.02	0.103	0					0.55
54.333	0.00	0.02	0.103	0					0.55
54.417	0.00	0.02	0.103	0					0.55
54.500	0.00	0.02	0.103	0					0.55
54.583	0.00	0.02	0.103	0					0.55
54.667	0.00	0.02	0.103	0					0.55
54.750	0.00	0.02	0.102	0					0.55
54.833	0.00	0.02	0.102	0					0.54
54.917	0.00	0.02	0.102	0					0.54
55.000	0.00	0.02	0.102	0					0.54
55.083	0.00	0.02	0.102	0					0.54
55.167	0.00	0.02	0.102	0					0.54
55.250	0.00	0.02	0.102	0					0.54
55.333	0.00	0.02	0.102	0					0.54
55.417	0.00	0.02	0.102	0					0.54
55.500	0.00	0.02	0.101	0					0.54
55.583	0.00	0.02	0.101	0					0.54
55.667	0.00	0.02	0.101	0					0.54
55.750	0.00	0.02	0.101	0					0.54

55.833	0.00	0.02	0.101	0					0.54
55.917	0.00	0.01	0.101	0					0.54
56.000	0.00	0.01	0.101	0					0.54
56.083	0.00	0.01	0.101	0					0.54
56.167	0.00	0.01	0.101	0					0.54
56.250	0.00	0.01	0.100	0					0.54
56.333	0.00	0.01	0.100	0					0.54
56.417	0.00	0.01	0.100	0					0.54
56.500	0.00	0.01	0.100	0					0.53
56.583	0.00	0.01	0.100	0					0.53
56.667	0.00	0.01	0.100	0					0.53
56.750	0.00	0.01	0.100	0					0.53
56.833	0.00	0.01	0.100	0					0.53
56.917	0.00	0.01	0.100	0					0.53
57.000	0.00	0.01	0.100	0					0.53
57.083	0.00	0.01	0.100	0					0.53
57.167	0.00	0.01	0.099	0					0.53
57.250	0.00	0.01	0.099	0					0.53
57.333	0.00	0.01	0.099	0					0.53
57.417	0.00	0.01	0.099	0					0.53
57.500	0.00	0.01	0.099	0					0.53
57.583	0.00	0.01	0.099	0					0.53
57.667	0.00	0.01	0.099	0					0.53
57.750	0.00	0.01	0.099	0					0.53
57.833	0.00	0.01	0.099	0					0.53
57.917	0.00	0.01	0.099	0					0.53
58.000	0.00	0.01	0.099	0					0.53
58.083	0.00	0.01	0.099	0					0.53
58.167	0.00	0.01	0.099	0					0.53
58.250	0.00	0.01	0.098	0					0.53
58.333	0.00	0.01	0.098	0					0.53
58.417	0.00	0.01	0.098	0					0.53
58.500	0.00	0.01	0.098	0					0.53
58.583	0.00	0.01	0.098	0					0.53
58.667	0.00	0.01	0.098	0					0.52
58.750	0.00	0.01	0.098	0					0.52
58.833	0.00	0.01	0.098	0					0.52
58.917	0.00	0.01	0.098	0					0.52
59.000	0.00	0.01	0.098	0					0.52
59.083	0.00	0.01	0.098	0					0.52
59.167	0.00	0.01	0.098	0					0.52
59.250	0.00	0.01	0.098	0					0.52
59.333	0.00	0.01	0.098	0					0.52
59.417	0.00	0.01	0.098	0					0.52
59.500	0.00	0.01	0.098	0					0.52
59.583	0.00	0.01	0.097	0					0.52
59.667	0.00	0.01	0.097	0					0.52
59.750	0.00	0.01	0.097	0					0.52
59.833	0.00	0.01	0.097	0					0.52
59.917	0.00	0.01	0.097	0					0.52

60.000	0.00	0.01	0.097	0					0.52
60.083	0.00	0.01	0.097	0					0.52
60.167	0.00	0.01	0.097	0					0.52
60.250	0.00	0.01	0.097	0					0.52
60.333	0.00	0.01	0.097	0					0.52
60.417	0.00	0.01	0.097	0					0.52
60.500	0.00	0.01	0.097	0					0.52
60.583	0.00	0.01	0.097	0					0.52
60.667	0.00	0.01	0.097	0					0.52
60.750	0.00	0.01	0.097	0					0.52
60.833	0.00	0.01	0.097	0					0.52
60.917	0.00	0.01	0.097	0					0.52
61.000	0.00	0.01	0.097	0					0.52
61.083	0.00	0.01	0.097	0					0.52
61.167	0.00	0.01	0.096	0					0.52
61.250	0.00	0.01	0.096	0					0.52
61.333	0.00	0.01	0.096	0					0.52
61.417	0.00	0.01	0.096	0					0.52
61.500	0.00	0.01	0.096	0					0.52
61.583	0.00	0.01	0.096	0					0.52
61.667	0.00	0.01	0.096	0					0.52
61.750	0.00	0.01	0.096	0					0.52
61.833	0.00	0.01	0.096	0					0.52
61.917	0.00	0.01	0.096	0					0.51
62.000	0.00	0.01	0.096	0					0.51
62.083	0.00	0.01	0.096	0					0.51
62.167	0.00	0.01	0.096	0					0.51
62.250	0.00	0.01	0.096	0					0.51
62.333	0.00	0.01	0.096	0					0.51
62.417	0.00	0.01	0.096	0					0.51
62.500	0.00	0.01	0.096	0					0.51
62.583	0.00	0.01	0.096	0					0.51
62.667	0.00	0.01	0.096	0					0.51
62.750	0.00	0.01	0.096	0					0.51
62.833	0.00	0.01	0.096	0					0.51
62.917	0.00	0.01	0.096	0					0.51
63.000	0.00	0.00	0.096	0					0.51
63.083	0.00	0.00	0.096	0					0.51
63.167	0.00	0.00	0.096	0					0.51
63.250	0.00	0.00	0.096	0					0.51
63.333	0.00	0.00	0.095	0					0.51
63.417	0.00	0.00	0.095	0					0.51
63.500	0.00	0.00	0.095	0					0.51
63.583	0.00	0.00	0.095	0					0.51
63.667	0.00	0.00	0.095	0					0.51
63.750	0.00	0.00	0.095	0					0.51
63.833	0.00	0.00	0.095	0					0.51
63.917	0.00	0.00	0.095	0					0.51
64.000	0.00	0.00	0.095	0					0.51
64.083	0.00	0.00	0.095	0					0.51

64.167	0.00	0.00	0.095	0					0.51
64.250	0.00	0.00	0.095	0					0.51
64.333	0.00	0.00	0.095	0					0.51
64.417	0.00	0.00	0.095	0					0.51
64.500	0.00	0.00	0.095	0					0.51
64.583	0.00	0.00	0.095	0					0.51
64.667	0.00	0.00	0.095	0					0.51
64.750	0.00	0.00	0.095	0					0.51
64.833	0.00	0.00	0.095	0					0.51
64.917	0.00	0.00	0.095	0					0.51
65.000	0.00	0.00	0.095	0					0.51
65.083	0.00	0.00	0.095	0					0.51
65.167	0.00	0.00	0.095	0					0.51
65.250	0.00	0.00	0.095	0					0.51
65.333	0.00	0.00	0.095	0					0.51
65.417	0.00	0.00	0.095	0					0.51
65.500	0.00	0.00	0.095	0					0.51
65.583	0.00	0.00	0.095	0					0.51
65.667	0.00	0.00	0.095	0					0.51
65.750	0.00	0.00	0.095	0					0.51
65.833	0.00	0.00	0.095	0					0.51
65.917	0.00	0.00	0.095	0					0.51
66.000	0.00	0.00	0.095	0					0.51
66.083	0.00	0.00	0.095	0					0.51
66.167	0.00	0.00	0.095	0					0.51
66.250	0.00	0.00	0.095	0					0.51
66.333	0.00	0.00	0.095	0					0.51
66.417	0.00	0.00	0.095	0					0.51
66.500	0.00	0.00	0.095	0					0.51
66.583	0.00	0.00	0.094	0					0.51
66.667	0.00	0.00	0.094	0					0.51
66.750	0.00	0.00	0.094	0					0.51
66.833	0.00	0.00	0.094	0					0.51
66.917	0.00	0.00	0.094	0					0.51
67.000	0.00	0.00	0.094	0					0.51
67.083	0.00	0.00	0.094	0					0.51
67.167	0.00	0.00	0.094	0					0.51
67.250	0.00	0.00	0.094	0					0.51
67.333	0.00	0.00	0.094	0					0.51
67.417	0.00	0.00	0.094	0					0.51
67.500	0.00	0.00	0.094	0					0.51
67.583	0.00	0.00	0.094	0					0.51
67.667	0.00	0.00	0.094	0					0.51
67.750	0.00	0.00	0.094	0					0.51
67.833	0.00	0.00	0.094	0					0.51
67.917	0.00	0.00	0.094	0					0.51
68.000	0.00	0.00	0.094	0					0.51
68.083	0.00	0.00	0.094	0					0.51
68.167	0.00	0.00	0.094	0					0.51
68.250	0.00	0.00	0.094	0					0.51

68.333	0.00	0.00	0.094	0					0.51
68.417	0.00	0.00	0.094	0					0.51
68.500	0.00	0.00	0.094	0					0.51
68.583	0.00	0.00	0.094	0					0.51
68.667	0.00	0.00	0.094	0					0.51
68.750	0.00	0.00	0.094	0					0.51
68.833	0.00	0.00	0.094	0					0.51
68.917	0.00	0.00	0.094	0					0.50
69.000	0.00	0.00	0.094	0					0.50
69.083	0.00	0.00	0.094	0					0.50
69.167	0.00	0.00	0.094	0					0.50
69.250	0.00	0.00	0.094	0					0.50
69.333	0.00	0.00	0.094	0					0.50
69.417	0.00	0.00	0.094	0					0.50
69.500	0.00	0.00	0.094	0					0.50
69.583	0.00	0.00	0.094	0					0.50
69.667	0.00	0.00	0.094	0					0.50
69.750	0.00	0.00	0.094	0					0.50
69.833	0.00	0.00	0.094	0					0.50
69.917	0.00	0.00	0.094	0					0.50
70.000	0.00	0.00	0.094	0					0.50
70.083	0.00	0.00	0.094	0					0.50
70.167	0.00	0.00	0.094	0					0.50
70.250	0.00	0.00	0.094	0					0.50
70.333	0.00	0.00	0.094	0					0.50
70.417	0.00	0.00	0.094	0					0.50
70.500	0.00	0.00	0.094	0					0.50
70.583	0.00	0.00	0.094	0					0.50
70.667	0.00	0.00	0.094	0					0.50
70.750	0.00	0.00	0.094	0					0.50
70.833	0.00	0.00	0.094	0					0.50
70.917	0.00	0.00	0.094	0					0.50
71.000	0.00	0.00	0.094	0					0.50
71.083	0.00	0.00	0.094	0					0.50
71.167	0.00	0.00	0.094	0					0.50
71.250	0.00	0.00	0.094	0					0.50
71.333	0.00	0.00	0.094	0					0.50
71.417	0.00	0.00	0.094	0					0.50
71.500	0.00	0.00	0.094	0					0.50
71.583	0.00	0.00	0.094	0					0.50
71.667	0.00	0.00	0.094	0					0.50
71.750	0.00	0.00	0.094	0					0.50
71.833	0.00	0.00	0.094	0					0.50
71.917	0.00	0.00	0.094	0					0.50
72.000	0.00	0.00	0.094	0					0.50
72.083	0.00	0.00	0.094	0					0.50
72.167	0.00	0.00	0.094	0					0.50
72.250	0.00	0.00	0.094	0					0.50
72.333	0.00	0.00	0.094	0					0.50
72.417	0.00	0.00	0.094	0					0.50

72.500	0.00	0.00	0.094	0					0.50
72.583	0.00	0.00	0.094	0					0.50
72.667	0.00	0.00	0.094	0					0.50
72.750	0.00	0.00	0.094	0					0.50
72.833	0.00	0.00	0.094	0					0.50
72.917	0.00	0.00	0.094	0					0.50
73.000	0.00	0.00	0.094	0					0.50
73.083	0.00	0.00	0.094	0					0.50
73.167	0.00	0.00	0.094	0					0.50
73.250	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 879

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.706 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 10YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH2410.rte
*****HYDROGRAPH DATA*****
Number of intervals = 291
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.314 (CFS)
Total volume = 1.344 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 291

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.6	1.16	1.74	2.31	Depth (Ft.)
0.083	0.07	0.00	0.000	O					0.00
0.167	0.12	0.00	0.001	O I					0.00
0.250	0.13	0.00	0.002	O I					0.01
0.333	0.16	0.00	0.003	O I					0.01
0.417	0.19	0.00	0.004	O I					0.02
0.500	0.19	0.00	0.005	O I					0.03
0.583	0.19	0.00	0.007	O I					0.04
0.667	0.19	0.00	0.008	O I					0.04
0.750	0.19	0.00	0.009	O I					0.05
0.833	0.23	0.00	0.011	O I					0.06
0.917	0.25	0.00	0.012	O I					0.07
1.000	0.26	0.00	0.014	O I					0.08
1.083	0.23	0.00	0.016	O I					0.08
1.167	0.20	0.00	0.017	O I					0.09
1.250	0.20	0.00	0.019	O I					0.10
1.333	0.19	0.00	0.020	O I					0.11
1.417	0.19	0.00	0.021	O I					0.11
1.500	0.19	0.00	0.023	O I					0.12
1.583	0.19	0.00	0.024	O I					0.13

1.667	0.19	0.00	0.025	0	I					0.14
1.750	0.19	0.00	0.027	0	I					0.14
1.833	0.23	0.00	0.028	0	I					0.15
1.917	0.25	0.00	0.030	0	I					0.16
2.000	0.26	0.00	0.032	0	I					0.17
2.083	0.26	0.00	0.033	0	I					0.18
2.167	0.26	0.00	0.035	0	I					0.19
2.250	0.26	0.00	0.037	0	I					0.20
2.333	0.26	0.00	0.039	0	I					0.21
2.417	0.26	0.00	0.040	0	I					0.22
2.500	0.26	0.00	0.042	0	I					0.23
2.583	0.29	0.00	0.044	0	I					0.24
2.667	0.32	0.00	0.046	0	I					0.25
2.750	0.32	0.00	0.048	0	I					0.26
2.833	0.32	0.00	0.051	0	I					0.27
2.917	0.32	0.00	0.053	0	I					0.28
3.000	0.32	0.00	0.055	0	I					0.30
3.083	0.32	0.00	0.057	0	I					0.31
3.167	0.32	0.00	0.060	0	I					0.32
3.250	0.32	0.00	0.062	0	I					0.33
3.333	0.32	0.00	0.064	0	I					0.34
3.417	0.32	0.00	0.066	0	I					0.36
3.500	0.32	0.00	0.069	0	I					0.37
3.583	0.32	0.00	0.071	0	I					0.38
3.667	0.32	0.00	0.073	0	I					0.39
3.750	0.32	0.00	0.075	0	I					0.40
3.833	0.36	0.00	0.078	0	I					0.42
3.917	0.38	0.00	0.080	0	I					0.43
4.000	0.39	0.00	0.083	0	I					0.45
4.083	0.39	0.00	0.085	0	I					0.46
4.167	0.39	0.00	0.088	0	I					0.47
4.250	0.39	0.00	0.091	0	I					0.49
4.333	0.42	0.00	0.094	0	I					0.50
4.417	0.45	0.01	0.097	0	I					0.52
4.500	0.45	0.01	0.100	0	I					0.53
4.583	0.45	0.02	0.103	0	I					0.55
4.667	0.45	0.02	0.106	0	I					0.56
4.750	0.45	0.03	0.109	0	I					0.57
4.833	0.49	0.04	0.112	0	I					0.59
4.917	0.51	0.04	0.115	0	I					0.60
5.000	0.52	0.05	0.118	0	I					0.62
5.083	0.45	0.05	0.121	0	I					0.63
5.167	0.40	0.06	0.124	0	I					0.65
5.250	0.39	0.06	0.126	0	I					0.66
5.333	0.42	0.07	0.128	0	I					0.67
5.417	0.45	0.07	0.131	0	I					0.68
5.500	0.45	0.08	0.133	0	I					0.69
5.583	0.49	0.08	0.136	0	I					0.71
5.667	0.51	0.09	0.139	0	I					0.72
5.750	0.52	0.09	0.142	0	I					0.73

5.833	0.52	0.10	0.145	0	I				0.75
5.917	0.52	0.10	0.148	0	I				0.76
6.000	0.52	0.11	0.150	0	I				0.78
6.083	0.55	0.11	0.153	0	I				0.79
6.167	0.58	0.12	0.156	0	I				0.81
6.250	0.58	0.13	0.160	0	I				0.82
6.333	0.58	0.13	0.163	0	I				0.84
6.417	0.58	0.14	0.166	0	I				0.85
6.500	0.58	0.14	0.169	0	I				0.86
6.583	0.62	0.15	0.172	0	I				0.88
6.667	0.64	0.16	0.175	0	I				0.90
6.750	0.65	0.16	0.179	0	I				0.91
6.833	0.65	0.17	0.182	0	I				0.93
6.917	0.65	0.17	0.185	0	I				0.94
7.000	0.65	0.18	0.189	0	I				0.96
7.083	0.65	0.19	0.192	0	I				0.97
7.167	0.65	0.19	0.195	0	I				0.99
7.250	0.65	0.20	0.198	0	I				1.00
7.333	0.68	0.20	0.201	0	I				1.02
7.417	0.71	0.20	0.205	0	I				1.03
7.500	0.71	0.20	0.208	0	I				1.05
7.583	0.75	0.20	0.212	0	I				1.06
7.667	0.77	0.20	0.216	0	I				1.08
7.750	0.78	0.20	0.220	0	I				1.10
7.833	0.81	0.20	0.224	0	I				1.12
7.917	0.84	0.20	0.228	0	I				1.13
8.000	0.84	0.20	0.233	0	I				1.15
8.083	0.91	0.20	0.237	0	I				1.17
8.167	0.96	0.20	0.242	0	I				1.20
8.250	0.97	0.20	0.248	0	I				1.22
8.333	0.97	0.20	0.253	0	I				1.24
8.417	0.97	0.20	0.258	0	I				1.26
8.500	0.97	0.20	0.264	0	I				1.29
8.583	1.01	0.20	0.269	0	I				1.31
8.667	1.03	0.20	0.275	0	I				1.34
8.750	1.04	0.20	0.281	0	I				1.36
8.833	1.07	0.20	0.286	0	I				1.39
8.917	1.10	0.20	0.293	0	I				1.41
9.000	1.10	0.20	0.299	0	I				1.44
9.083	1.17	0.20	0.305	0	I				1.47
9.167	1.22	0.20	0.312	0	I				1.50
9.250	1.23	0.20	0.319	0	I				1.52
9.333	1.27	0.20	0.326	0	I				1.55
9.417	1.29	0.20	0.334	0	I				1.58
9.500	1.30	0.20	0.341	0	I				1.61
9.583	1.33	0.20	0.349	0	I				1.64
9.667	1.36	0.20	0.357	0	I				1.67
9.750	1.36	0.20	0.365	0	I				1.70
9.833	1.39	0.20	0.373	0	I				1.74
9.917	1.42	0.20	0.382	0	I				1.77

10.000	1.43	0.20	0.390	0		I		1.80
10.083	1.19	0.20	0.398	0		I		1.83
10.167	1.01	0.20	0.404	0		I		1.86
10.250	0.98	0.20	0.409	0		I		1.88
10.333	0.97	0.20	0.415	0		I		1.90
10.417	0.97	0.20	0.420	0		I		1.92
10.500	0.97	0.20	0.425	0		I		1.94
10.583	1.14	0.20	0.431	0		I		1.97
10.667	1.27	0.20	0.438	0		I		1.99
10.750	1.29	0.20	0.446	0		I		2.02
10.833	1.30	0.20	0.453	0		I		2.05
10.917	1.30	0.20	0.461	0		I		2.07
11.000	1.30	0.20	0.468	0		I		2.10
11.083	1.26	0.20	0.476	0		I		2.13
11.167	1.24	0.20	0.483	0		I		2.15
11.250	1.23	0.20	0.490	0		I		2.18
11.333	1.23	0.20	0.497	0		I		2.21
11.417	1.23	0.20	0.505	0		I		2.23
11.500	1.23	0.20	0.512	0		I		2.26
11.583	1.17	0.20	0.519	0		I		2.28
11.667	1.11	0.20	0.525	0		I		2.30
11.750	1.10	0.20	0.531	0		I		2.33
11.833	1.14	0.20	0.538	0		I		2.35
11.917	1.16	0.20	0.544	0		I		2.37
12.000	1.17	0.20	0.551	0		I		2.40
12.083	1.40	0.20	0.558	0		I		2.42
12.167	1.58	0.20	0.567	0		I		2.46
12.250	1.61	0.20	0.577	0		I		2.49
12.333	1.65	0.20	0.587	0		I		2.52
12.417	1.68	0.20	0.597	0		I		2.56
12.500	1.68	0.20	0.607	0		I		2.59
12.583	1.75	0.20	0.618	0		I		2.62
12.667	1.80	0.20	0.629	0		I		2.66
12.750	1.81	0.20	0.640	0		I		2.70
12.833	1.85	0.20	0.651	0		I		2.73
12.917	1.88	0.20	0.663	0		I		2.77
13.000	1.89	0.20	0.674	0		I		2.81
13.083	2.10	0.20	0.687	0		I		2.85
13.167	2.27	0.20	0.700	0		I		2.90
13.250	2.30	0.20	0.715	0		I		2.94
13.333	2.31	0.20	0.729	0		I		2.99
13.417	2.31	0.20	0.744	0		I		3.04
13.500	2.31	0.20	0.758	0		I		3.08
13.583	1.89	0.20	0.771	0		I		3.12
13.667	1.56	0.20	0.782	0		I		3.15
13.750	1.51	0.20	0.791	0		I		3.18
13.833	1.49	0.20	0.800	0		I		3.21
13.917	1.49	0.20	0.809	0		I		3.23
14.000	1.49	0.20	0.818	0		I		3.26
14.083	1.63	0.20	0.827	0		I		3.29

14.167	1.74	0.20	0.838	0			I	3.32
14.250	1.76	0.20	0.848	0			I	3.35
14.333	1.72	0.20	0.859	0			I	3.38
14.417	1.69	0.20	0.869	0			I	3.42
14.500	1.69	0.20	0.880	0			I	3.45
14.583	1.69	0.20	0.890	0			I	3.48
14.667	1.69	0.27	0.900	0			I	3.51
14.750	1.69	0.49	0.909		0		I	3.53
14.833	1.66	0.68	0.916			0	I	3.55
14.917	1.63	0.83	0.922			0	I	3.57
15.000	1.62	0.96	0.928			0	I	3.59
15.083	1.59	1.06	0.932			0	I	3.60
15.167	1.56	1.14	0.935			0	I	3.61
15.250	1.56	1.21	0.938			0	I	3.61
15.333	1.52	1.26	0.940			0	I	3.62
15.417	1.50	1.30	0.941			0	I	3.62
15.500	1.49	1.33	0.942			0	I	3.63
15.583	1.36	1.35	0.943			0		3.63
15.667	1.25	1.34	0.943			0	I	3.63
15.750	1.24	1.32	0.942			0	I	3.63
15.833	1.23	1.31	0.942			0	I	3.63
15.917	1.23	1.30	0.941			0		3.62
16.000	1.23	1.29	0.941			0		3.62
16.083	0.73	1.24	0.939			I	0	3.62
16.167	0.34	1.13	0.934		I		0	3.60
16.250	0.28	1.00	0.929		I		0	3.59
16.333	0.26	0.88	0.925		I		0	3.58
16.417	0.26	0.78	0.921		I		0	3.57
16.500	0.26	0.70	0.917		I		0	3.56
16.583	0.23	0.63	0.914		I		0	3.55
16.667	0.20	0.56	0.912		I		0	3.54
16.750	0.20	0.51	0.909		I		0	3.53
16.833	0.19	0.46	0.907		I		0	3.53
16.917	0.19	0.41	0.906		I		0	3.52
17.000	0.19	0.38	0.904		I		0	3.52
17.083	0.26	0.36	0.903		IO			3.52
17.167	0.31	0.34	0.903		0			3.52
17.250	0.32	0.34	0.903		0			3.52
17.333	0.32	0.34	0.903		0			3.52
17.417	0.32	0.34	0.903		0			3.52
17.500	0.32	0.33	0.903		0			3.52
17.583	0.32	0.33	0.902		0			3.52
17.667	0.32	0.33	0.902		0			3.52
17.750	0.32	0.33	0.902		0			3.52
17.833	0.29	0.33	0.902		0			3.51
17.917	0.27	0.32	0.902		IO			3.51
18.000	0.26	0.31	0.902		IO			3.51
18.083	0.26	0.30	0.901		IO			3.51
18.167	0.26	0.30	0.901		IO			3.51
18.250	0.26	0.29	0.901		IO			3.51

18.333	0.26	0.28	0.901	0					3.51
18.417	0.26	0.28	0.900	0					3.51
18.500	0.26	0.28	0.900	0					3.51
18.583	0.23	0.27	0.900	0					3.51
18.667	0.20	0.26	0.900	IO					3.51
18.750	0.20	0.25	0.899	IO					3.51
18.833	0.16	0.24	0.899	IO					3.50
18.917	0.14	0.23	0.898	I 0					3.50
19.000	0.13	0.21	0.898	IO					3.50
19.083	0.16	0.20	0.897	0					3.50
19.167	0.19	0.20	0.897	0					3.50
19.250	0.19	0.20	0.897	0					3.50
19.333	0.23	0.20	0.897	OI					3.50
19.417	0.25	0.21	0.897	OI					3.50
19.500	0.26	0.21	0.898	OI					3.50
19.583	0.23	0.22	0.898	0					3.50
19.667	0.20	0.22	0.898	IO					3.50
19.750	0.20	0.21	0.898	0					3.50
19.833	0.16	0.21	0.897	0					3.50
19.917	0.14	0.20	0.897	IO					3.50
20.000	0.13	0.20	0.897	IO					3.50
20.083	0.16	0.20	0.896	0					3.50
20.167	0.19	0.20	0.896	0					3.50
20.250	0.19	0.20	0.896	0					3.50
20.333	0.19	0.20	0.896	0					3.50
20.417	0.19	0.20	0.896	0					3.50
20.500	0.19	0.20	0.896	0					3.50
20.583	0.19	0.20	0.896	0					3.50
20.667	0.19	0.20	0.896	0					3.50
20.750	0.19	0.20	0.896	0					3.50
20.833	0.16	0.20	0.896	0					3.50
20.917	0.14	0.20	0.896	IO					3.50
21.000	0.13	0.20	0.895	IO					3.49
21.083	0.16	0.20	0.895	0					3.49
21.167	0.19	0.20	0.895	0					3.49
21.250	0.19	0.20	0.895	0					3.49
21.333	0.16	0.20	0.895	0					3.49
21.417	0.14	0.20	0.894	IO					3.49
21.500	0.13	0.20	0.894	IO					3.49
21.583	0.16	0.20	0.893	0					3.49
21.667	0.19	0.20	0.893	0					3.49
21.750	0.19	0.20	0.893	0					3.49
21.833	0.16	0.20	0.893	0					3.49
21.917	0.14	0.20	0.893	IO					3.49
22.000	0.13	0.20	0.892	IO					3.49
22.083	0.16	0.20	0.892	0					3.48
22.167	0.19	0.20	0.892	0					3.48
22.250	0.19	0.20	0.892	0					3.48
22.333	0.16	0.20	0.892	0					3.48
22.417	0.14	0.20	0.891	IO					3.48

22.500	0.13	0.20	0.891	IO					3.48
22.583	0.13	0.20	0.890	IO					3.48
22.667	0.13	0.20	0.890	IO					3.48
22.750	0.13	0.20	0.890	IO					3.48
22.833	0.13	0.20	0.889	IO					3.48
22.917	0.13	0.20	0.889	IO					3.47
23.000	0.13	0.20	0.888	IO					3.47
23.083	0.13	0.20	0.888	IO					3.47
23.167	0.13	0.20	0.887	IO					3.47
23.250	0.13	0.20	0.887	IO					3.47
23.333	0.13	0.20	0.886	IO					3.47
23.417	0.13	0.20	0.886	IO					3.47
23.500	0.13	0.20	0.885	IO					3.46
23.583	0.13	0.20	0.885	IO					3.46
23.667	0.13	0.20	0.884	IO					3.46
23.750	0.13	0.20	0.884	IO					3.46
23.833	0.13	0.20	0.884	IO					3.46
23.917	0.13	0.20	0.883	IO					3.46
24.000	0.13	0.20	0.883	IO					3.46
24.083	0.06	0.20	0.882	I 0					3.45
24.167	0.01	0.20	0.881	I 0					3.45
24.250	0.00	0.20	0.880	I 0					3.45
24.333	0.00	0.20	0.878	I 0					3.44
24.417	0.00	0.20	0.877	I 0					3.44
24.500	0.00	0.20	0.876	I 0					3.43
24.583	0.00	0.20	0.874	I 0					3.43
24.667	0.00	0.20	0.873	I 0					3.43
24.750	0.00	0.20	0.871	I 0					3.42
24.833	0.00	0.20	0.870	I 0					3.42
24.917	0.00	0.20	0.869	I 0					3.41
25.000	0.00	0.20	0.867	I 0					3.41
25.083	0.00	0.20	0.866	I 0					3.41
25.167	0.00	0.20	0.865	I 0					3.40
25.250	0.00	0.20	0.863	I 0					3.40
25.333	0.00	0.20	0.862	I 0					3.39
25.417	0.00	0.20	0.861	I 0					3.39
25.500	0.00	0.20	0.859	I 0					3.39
25.583	0.00	0.20	0.858	I 0					3.38
25.667	0.00	0.20	0.857	I 0					3.38
25.750	0.00	0.20	0.855	I 0					3.37
25.833	0.00	0.20	0.854	I 0					3.37
25.917	0.00	0.20	0.853	I 0					3.37
26.000	0.00	0.20	0.851	I 0					3.36
26.083	0.00	0.20	0.850	I 0					3.36
26.167	0.00	0.20	0.848	I 0					3.35
26.250	0.00	0.20	0.847	I 0					3.35
26.333	0.00	0.20	0.846	I 0					3.34
26.417	0.00	0.20	0.844	I 0					3.34
26.500	0.00	0.20	0.843	I 0					3.34
26.583	0.00	0.20	0.842	I 0					3.33

26.667	0.00	0.20	0.840	I 0					3.33
26.750	0.00	0.20	0.839	I 0					3.32
26.833	0.00	0.20	0.838	I 0					3.32
26.917	0.00	0.20	0.836	I 0					3.32
27.000	0.00	0.20	0.835	I 0					3.31
27.083	0.00	0.20	0.834	I 0					3.31
27.167	0.00	0.20	0.832	I 0					3.30
27.250	0.00	0.20	0.831	I 0					3.30
27.333	0.00	0.20	0.830	I 0					3.30
27.417	0.00	0.20	0.828	I 0					3.29
27.500	0.00	0.20	0.827	I 0					3.29
27.583	0.00	0.20	0.825	I 0					3.28
27.667	0.00	0.20	0.824	I 0					3.28
27.750	0.00	0.20	0.823	I 0					3.28
27.833	0.00	0.20	0.821	I 0					3.27
27.917	0.00	0.20	0.820	I 0					3.27
28.000	0.00	0.20	0.819	I 0					3.26
28.083	0.00	0.20	0.817	I 0					3.26
28.167	0.00	0.20	0.816	I 0					3.25
28.250	0.00	0.20	0.815	I 0					3.25
28.333	0.00	0.20	0.813	I 0					3.25
28.417	0.00	0.20	0.812	I 0					3.24
28.500	0.00	0.20	0.811	I 0					3.24
28.583	0.00	0.20	0.809	I 0					3.23
28.667	0.00	0.20	0.808	I 0					3.23
28.750	0.00	0.20	0.807	I 0					3.23
28.833	0.00	0.20	0.805	I 0					3.22
28.917	0.00	0.20	0.804	I 0					3.22
29.000	0.00	0.20	0.802	I 0					3.21
29.083	0.00	0.20	0.801	I 0					3.21
29.167	0.00	0.20	0.800	I 0					3.21
29.250	0.00	0.20	0.798	I 0					3.20
29.333	0.00	0.20	0.797	I 0					3.20
29.417	0.00	0.20	0.796	I 0					3.19
29.500	0.00	0.20	0.794	I 0					3.19
29.583	0.00	0.20	0.793	I 0					3.18
29.667	0.00	0.20	0.792	I 0					3.18
29.750	0.00	0.20	0.790	I 0					3.18
29.833	0.00	0.20	0.789	I 0					3.17
29.917	0.00	0.20	0.788	I 0					3.17
30.000	0.00	0.20	0.786	I 0					3.16
30.083	0.00	0.20	0.785	I 0					3.16
30.167	0.00	0.20	0.784	I 0					3.16
30.250	0.00	0.20	0.782	I 0					3.15
30.333	0.00	0.20	0.781	I 0					3.15
30.417	0.00	0.20	0.780	I 0					3.14
30.500	0.00	0.20	0.778	I 0					3.14
30.583	0.00	0.20	0.777	I 0					3.14
30.667	0.00	0.20	0.775	I 0					3.13
30.750	0.00	0.20	0.774	I 0					3.13

30.833	0.00	0.20	0.773	I 0					3.12
30.917	0.00	0.20	0.771	I 0					3.12
31.000	0.00	0.20	0.770	I 0					3.12
31.083	0.00	0.20	0.769	I 0					3.11
31.167	0.00	0.20	0.767	I 0					3.11
31.250	0.00	0.20	0.766	I 0					3.10
31.333	0.00	0.20	0.765	I 0					3.10
31.417	0.00	0.20	0.763	I 0					3.09
31.500	0.00	0.20	0.762	I 0					3.09
31.583	0.00	0.20	0.761	I 0					3.09
31.667	0.00	0.20	0.759	I 0					3.08
31.750	0.00	0.20	0.758	I 0					3.08
31.833	0.00	0.20	0.757	I 0					3.07
31.917	0.00	0.20	0.755	I 0					3.07
32.000	0.00	0.20	0.754	I 0					3.07
32.083	0.00	0.20	0.752	I 0					3.06
32.167	0.00	0.20	0.751	I 0					3.06
32.250	0.00	0.20	0.750	I 0					3.05
32.333	0.00	0.20	0.748	I 0					3.05
32.417	0.00	0.20	0.747	I 0					3.05
32.500	0.00	0.20	0.746	I 0					3.04
32.583	0.00	0.20	0.744	I 0					3.04
32.667	0.00	0.20	0.743	I 0					3.03
32.750	0.00	0.20	0.742	I 0					3.03
32.833	0.00	0.20	0.740	I 0					3.03
32.917	0.00	0.20	0.739	I 0					3.02
33.000	0.00	0.20	0.738	I 0					3.02
33.083	0.00	0.20	0.736	I 0					3.01
33.167	0.00	0.20	0.735	I 0					3.01
33.250	0.00	0.20	0.734	I 0					3.00
33.333	0.00	0.20	0.732	I 0					3.00
33.417	0.00	0.20	0.731	I 0					3.00
33.500	0.00	0.20	0.729	I 0					2.99
33.583	0.00	0.20	0.728	I 0					2.99
33.667	0.00	0.20	0.727	I 0					2.98
33.750	0.00	0.20	0.725	I 0					2.98
33.833	0.00	0.20	0.724	I 0					2.97
33.917	0.00	0.20	0.723	I 0					2.97
34.000	0.00	0.20	0.721	I 0					2.96
34.083	0.00	0.20	0.720	I 0					2.96
34.167	0.00	0.20	0.719	I 0					2.96
34.250	0.00	0.20	0.717	I 0					2.95
34.333	0.00	0.20	0.716	I 0					2.95
34.417	0.00	0.20	0.715	I 0					2.94
34.500	0.00	0.20	0.713	I 0					2.94
34.583	0.00	0.20	0.712	I 0					2.93
34.667	0.00	0.20	0.711	I 0					2.93
34.750	0.00	0.20	0.709	I 0					2.92
34.833	0.00	0.20	0.708	I 0					2.92
34.917	0.00	0.20	0.706	I 0					2.92

35.000	0.00	0.20	0.705	I 0					2.91
35.083	0.00	0.20	0.704	I 0					2.91
35.167	0.00	0.20	0.702	I 0					2.90
35.250	0.00	0.20	0.701	I 0					2.90
35.333	0.00	0.20	0.700	I 0					2.89
35.417	0.00	0.20	0.698	I 0					2.89
35.500	0.00	0.20	0.697	I 0					2.88
35.583	0.00	0.20	0.696	I 0					2.88
35.667	0.00	0.20	0.694	I 0					2.88
35.750	0.00	0.20	0.693	I 0					2.87
35.833	0.00	0.20	0.692	I 0					2.87
35.917	0.00	0.20	0.690	I 0					2.86
36.000	0.00	0.20	0.689	I 0					2.86
36.083	0.00	0.20	0.688	I 0					2.85
36.167	0.00	0.20	0.686	I 0					2.85
36.250	0.00	0.20	0.685	I 0					2.84
36.333	0.00	0.20	0.683	I 0					2.84
36.417	0.00	0.20	0.682	I 0					2.84
36.500	0.00	0.20	0.681	I 0					2.83
36.583	0.00	0.20	0.679	I 0					2.83
36.667	0.00	0.20	0.678	I 0					2.82
36.750	0.00	0.20	0.677	I 0					2.82
36.833	0.00	0.20	0.675	I 0					2.81
36.917	0.00	0.20	0.674	I 0					2.81
37.000	0.00	0.20	0.673	I 0					2.80
37.083	0.00	0.20	0.671	I 0					2.80
37.167	0.00	0.20	0.670	I 0					2.80
37.250	0.00	0.20	0.669	I 0					2.79
37.333	0.00	0.20	0.667	I 0					2.79
37.417	0.00	0.20	0.666	I 0					2.78
37.500	0.00	0.20	0.665	I 0					2.78
37.583	0.00	0.20	0.663	I 0					2.77
37.667	0.00	0.20	0.662	I 0					2.77
37.750	0.00	0.20	0.661	I 0					2.76
37.833	0.00	0.20	0.659	I 0					2.76
37.917	0.00	0.20	0.658	I 0					2.76
38.000	0.00	0.20	0.656	I 0					2.75
38.083	0.00	0.20	0.655	I 0					2.75
38.167	0.00	0.20	0.654	I 0					2.74
38.250	0.00	0.20	0.652	I 0					2.74
38.333	0.00	0.20	0.651	I 0					2.73
38.417	0.00	0.20	0.650	I 0					2.73
38.500	0.00	0.20	0.648	I 0					2.72
38.583	0.00	0.20	0.647	I 0					2.72
38.667	0.00	0.20	0.646	I 0					2.72
38.750	0.00	0.20	0.644	I 0					2.71
38.833	0.00	0.20	0.643	I 0					2.71
38.917	0.00	0.20	0.642	I 0					2.70
39.000	0.00	0.20	0.640	I 0					2.70
39.083	0.00	0.20	0.639	I 0					2.69

39.167	0.00	0.20	0.638	I 0					2.69
39.250	0.00	0.20	0.636	I 0					2.68
39.333	0.00	0.20	0.635	I 0					2.68
39.417	0.00	0.20	0.633	I 0					2.68
39.500	0.00	0.20	0.632	I 0					2.67
39.583	0.00	0.20	0.631	I 0					2.67
39.667	0.00	0.20	0.629	I 0					2.66
39.750	0.00	0.20	0.628	I 0					2.66
39.833	0.00	0.20	0.627	I 0					2.65
39.917	0.00	0.20	0.625	I 0					2.65
40.000	0.00	0.20	0.624	I 0					2.64
40.083	0.00	0.20	0.623	I 0					2.64
40.167	0.00	0.20	0.621	I 0					2.64
40.250	0.00	0.20	0.620	I 0					2.63
40.333	0.00	0.20	0.619	I 0					2.63
40.417	0.00	0.20	0.617	I 0					2.62
40.500	0.00	0.20	0.616	I 0					2.62
40.583	0.00	0.20	0.615	I 0					2.61
40.667	0.00	0.20	0.613	I 0					2.61
40.750	0.00	0.20	0.612	I 0					2.60
40.833	0.00	0.20	0.610	I 0					2.60
40.917	0.00	0.20	0.609	I 0					2.60
41.000	0.00	0.20	0.608	I 0					2.59
41.083	0.00	0.20	0.606	I 0					2.59
41.167	0.00	0.20	0.605	I 0					2.58
41.250	0.00	0.20	0.604	I 0					2.58
41.333	0.00	0.20	0.602	I 0					2.57
41.417	0.00	0.20	0.601	I 0					2.57
41.500	0.00	0.20	0.600	I 0					2.56
41.583	0.00	0.20	0.598	I 0					2.56
41.667	0.00	0.20	0.597	I 0					2.56
41.750	0.00	0.20	0.596	I 0					2.55
41.833	0.00	0.20	0.594	I 0					2.55
41.917	0.00	0.20	0.593	I 0					2.54
42.000	0.00	0.20	0.592	I 0					2.54
42.083	0.00	0.20	0.590	I 0					2.53
42.167	0.00	0.20	0.589	I 0					2.53
42.250	0.00	0.20	0.587	I 0					2.52
42.333	0.00	0.20	0.586	I 0					2.52
42.417	0.00	0.20	0.585	I 0					2.52
42.500	0.00	0.20	0.583	I 0					2.51
42.583	0.00	0.20	0.582	I 0					2.51
42.667	0.00	0.20	0.581	I 0					2.50
42.750	0.00	0.20	0.579	I 0					2.50
42.833	0.00	0.20	0.578	I 0					2.49
42.917	0.00	0.20	0.577	I 0					2.49
43.000	0.00	0.20	0.575	I 0					2.48
43.083	0.00	0.20	0.574	I 0					2.48
43.167	0.00	0.20	0.573	I 0					2.47
43.250	0.00	0.20	0.571	I 0					2.47

43.333	0.00	0.20	0.570	I 0					2.46
43.417	0.00	0.20	0.569	I 0					2.46
43.500	0.00	0.20	0.567	I 0					2.45
43.583	0.00	0.20	0.566	I 0					2.45
43.667	0.00	0.20	0.564	I 0					2.44
43.750	0.00	0.20	0.563	I 0					2.44
43.833	0.00	0.20	0.562	I 0					2.43
43.917	0.00	0.20	0.560	I 0					2.43
44.000	0.00	0.20	0.559	I 0					2.43
44.083	0.00	0.20	0.558	I 0					2.42
44.167	0.00	0.20	0.556	I 0					2.42
44.250	0.00	0.20	0.555	I 0					2.41
44.333	0.00	0.20	0.554	I 0					2.41
44.417	0.00	0.20	0.552	I 0					2.40
44.500	0.00	0.20	0.551	I 0					2.40
44.583	0.00	0.20	0.550	I 0					2.39
44.667	0.00	0.20	0.548	I 0					2.39
44.750	0.00	0.20	0.547	I 0					2.38
44.833	0.00	0.20	0.546	I 0					2.38
44.917	0.00	0.20	0.544	I 0					2.37
45.000	0.00	0.20	0.543	I 0					2.37
45.083	0.00	0.20	0.542	I 0					2.36
45.167	0.00	0.20	0.540	I 0					2.36
45.250	0.00	0.20	0.539	I 0					2.35
45.333	0.00	0.20	0.537	I 0					2.35
45.417	0.00	0.20	0.536	I 0					2.34
45.500	0.00	0.20	0.535	I 0					2.34
45.583	0.00	0.20	0.533	I 0					2.33
45.667	0.00	0.20	0.532	I 0					2.33
45.750	0.00	0.20	0.531	I 0					2.32
45.833	0.00	0.20	0.529	I 0					2.32
45.917	0.00	0.20	0.528	I 0					2.31
46.000	0.00	0.20	0.527	I 0					2.31
46.083	0.00	0.20	0.525	I 0					2.30
46.167	0.00	0.20	0.524	I 0					2.30
46.250	0.00	0.20	0.523	I 0					2.29
46.333	0.00	0.20	0.521	I 0					2.29
46.417	0.00	0.20	0.520	I 0					2.29
46.500	0.00	0.20	0.519	I 0					2.28
46.583	0.00	0.20	0.517	I 0					2.28
46.667	0.00	0.20	0.516	I 0					2.27
46.750	0.00	0.20	0.514	I 0					2.27
46.833	0.00	0.20	0.513	I 0					2.26
46.917	0.00	0.20	0.512	I 0					2.26
47.000	0.00	0.20	0.510	I 0					2.25
47.083	0.00	0.20	0.509	I 0					2.25
47.167	0.00	0.20	0.508	I 0					2.24
47.250	0.00	0.20	0.506	I 0					2.24
47.333	0.00	0.20	0.505	I 0					2.23
47.417	0.00	0.20	0.504	I 0					2.23

47.500	0.00	0.20	0.502	I 0					2.22
47.583	0.00	0.20	0.501	I 0					2.22
47.667	0.00	0.20	0.500	I 0					2.21
47.750	0.00	0.20	0.498	I 0					2.21
47.833	0.00	0.20	0.497	I 0					2.20
47.917	0.00	0.20	0.496	I 0					2.20
48.000	0.00	0.20	0.494	I 0					2.19
48.083	0.00	0.20	0.493	I 0					2.19
48.167	0.00	0.20	0.491	I 0					2.18
48.250	0.00	0.20	0.490	I 0					2.18
48.333	0.00	0.20	0.489	I 0					2.17
48.417	0.00	0.20	0.487	I 0					2.17
48.500	0.00	0.20	0.486	I 0					2.16
48.583	0.00	0.20	0.485	I 0					2.16
48.667	0.00	0.20	0.483	I 0					2.15
48.750	0.00	0.20	0.482	I 0					2.15
48.833	0.00	0.20	0.481	I 0					2.15
48.917	0.00	0.20	0.479	I 0					2.14
49.000	0.00	0.20	0.478	I 0					2.14
49.083	0.00	0.20	0.477	I 0					2.13
49.167	0.00	0.20	0.475	I 0					2.13
49.250	0.00	0.20	0.474	I 0					2.12
49.333	0.00	0.20	0.473	I 0					2.12
49.417	0.00	0.20	0.471	I 0					2.11
49.500	0.00	0.20	0.470	I 0					2.11
49.583	0.00	0.20	0.468	I 0					2.10
49.667	0.00	0.20	0.467	I 0					2.10
49.750	0.00	0.20	0.466	I 0					2.09
49.833	0.00	0.20	0.464	I 0					2.09
49.917	0.00	0.20	0.463	I 0					2.08
50.000	0.00	0.20	0.462	I 0					2.08
50.083	0.00	0.20	0.460	I 0					2.07
50.167	0.00	0.20	0.459	I 0					2.07
50.250	0.00	0.20	0.458	I 0					2.06
50.333	0.00	0.20	0.456	I 0					2.06
50.417	0.00	0.20	0.455	I 0					2.05
50.500	0.00	0.20	0.454	I 0					2.05
50.583	0.00	0.20	0.452	I 0					2.04
50.667	0.00	0.20	0.451	I 0					2.04
50.750	0.00	0.20	0.450	I 0					2.03
50.833	0.00	0.20	0.448	I 0					2.03
50.917	0.00	0.20	0.447	I 0					2.02
51.000	0.00	0.20	0.445	I 0					2.02
51.083	0.00	0.20	0.444	I 0					2.01
51.167	0.00	0.20	0.443	I 0					2.01
51.250	0.00	0.20	0.441	I 0					2.01
51.333	0.00	0.20	0.440	I 0					2.00
51.417	0.00	0.20	0.439	I 0					1.99
51.500	0.00	0.20	0.437	I 0					1.99
51.583	0.00	0.20	0.436	I 0					1.98

51.667	0.00	0.20	0.435	I 0					1.98
51.750	0.00	0.20	0.433	I 0					1.97
51.833	0.00	0.20	0.432	I 0					1.97
51.917	0.00	0.20	0.431	I 0					1.96
52.000	0.00	0.20	0.429	I 0					1.96
52.083	0.00	0.20	0.428	I 0					1.95
52.167	0.00	0.20	0.427	I 0					1.95
52.250	0.00	0.20	0.425	I 0					1.94
52.333	0.00	0.20	0.424	I 0					1.94
52.417	0.00	0.20	0.423	I 0					1.93
52.500	0.00	0.20	0.421	I 0					1.93
52.583	0.00	0.20	0.420	I 0					1.92
52.667	0.00	0.20	0.418	I 0					1.92
52.750	0.00	0.20	0.417	I 0					1.91
52.833	0.00	0.20	0.416	I 0					1.90
52.917	0.00	0.20	0.414	I 0					1.90
53.000	0.00	0.20	0.413	I 0					1.89
53.083	0.00	0.20	0.412	I 0					1.89
53.167	0.00	0.20	0.410	I 0					1.88
53.250	0.00	0.20	0.409	I 0					1.88
53.333	0.00	0.20	0.408	I 0					1.87
53.417	0.00	0.20	0.406	I 0					1.87
53.500	0.00	0.20	0.405	I 0					1.86
53.583	0.00	0.20	0.404	I 0					1.86
53.667	0.00	0.20	0.402	I 0					1.85
53.750	0.00	0.20	0.401	I 0					1.85
53.833	0.00	0.20	0.400	I 0					1.84
53.917	0.00	0.20	0.398	I 0					1.84
54.000	0.00	0.20	0.397	I 0					1.83
54.083	0.00	0.20	0.395	I 0					1.82
54.167	0.00	0.20	0.394	I 0					1.82
54.250	0.00	0.20	0.393	I 0					1.81
54.333	0.00	0.20	0.391	I 0					1.81
54.417	0.00	0.20	0.390	I 0					1.80
54.500	0.00	0.20	0.389	I 0					1.80
54.583	0.00	0.20	0.387	I 0					1.79
54.667	0.00	0.20	0.386	I 0					1.79
54.750	0.00	0.20	0.385	I 0					1.78
54.833	0.00	0.20	0.383	I 0					1.78
54.917	0.00	0.20	0.382	I 0					1.77
55.000	0.00	0.20	0.381	I 0					1.77
55.083	0.00	0.20	0.379	I 0					1.76
55.167	0.00	0.20	0.378	I 0					1.76
55.250	0.00	0.20	0.377	I 0					1.75
55.333	0.00	0.20	0.375	I 0					1.74
55.417	0.00	0.20	0.374	I 0					1.74
55.500	0.00	0.20	0.372	I 0					1.73
55.583	0.00	0.20	0.371	I 0					1.73
55.667	0.00	0.20	0.370	I 0					1.72
55.750	0.00	0.20	0.368	I 0					1.72

55.833	0.00	0.20	0.367	I 0					1.71
55.917	0.00	0.20	0.366	I 0					1.71
56.000	0.00	0.20	0.364	I 0					1.70
56.083	0.00	0.20	0.363	I 0					1.70
56.167	0.00	0.20	0.362	I 0					1.69
56.250	0.00	0.20	0.360	I 0					1.69
56.333	0.00	0.20	0.359	I 0					1.68
56.417	0.00	0.20	0.358	I 0					1.68
56.500	0.00	0.20	0.356	I 0					1.67
56.583	0.00	0.20	0.355	I 0					1.66
56.667	0.00	0.20	0.354	I 0					1.66
56.750	0.00	0.20	0.352	I 0					1.65
56.833	0.00	0.20	0.351	I 0					1.65
56.917	0.00	0.20	0.349	I 0					1.64
57.000	0.00	0.20	0.348	I 0					1.64
57.083	0.00	0.20	0.347	I 0					1.63
57.167	0.00	0.20	0.345	I 0					1.63
57.250	0.00	0.20	0.344	I 0					1.62
57.333	0.00	0.20	0.343	I 0					1.62
57.417	0.00	0.20	0.341	I 0					1.61
57.500	0.00	0.20	0.340	I 0					1.61
57.583	0.00	0.20	0.339	I 0					1.60
57.667	0.00	0.20	0.337	I 0					1.60
57.750	0.00	0.20	0.336	I 0					1.59
57.833	0.00	0.20	0.335	I 0					1.59
57.917	0.00	0.20	0.333	I 0					1.58
58.000	0.00	0.20	0.332	I 0					1.57
58.083	0.00	0.20	0.331	I 0					1.57
58.167	0.00	0.20	0.329	I 0					1.56
58.250	0.00	0.20	0.328	I 0					1.56
58.333	0.00	0.20	0.326	I 0					1.55
58.417	0.00	0.20	0.325	I 0					1.55
58.500	0.00	0.20	0.324	I 0					1.54
58.583	0.00	0.20	0.322	I 0					1.54
58.667	0.00	0.20	0.321	I 0					1.53
58.750	0.00	0.20	0.320	I 0					1.53
58.833	0.00	0.20	0.318	I 0					1.52
58.917	0.00	0.20	0.317	I 0					1.52
59.000	0.00	0.20	0.316	I 0					1.51
59.083	0.00	0.20	0.314	I 0					1.51
59.167	0.00	0.20	0.313	I 0					1.50
59.250	0.00	0.20	0.312	I 0					1.49
59.333	0.00	0.20	0.310	I 0					1.49
59.417	0.00	0.20	0.309	I 0					1.48
59.500	0.00	0.20	0.308	I 0					1.48
59.583	0.00	0.20	0.306	I 0					1.47
59.667	0.00	0.20	0.305	I 0					1.46
59.750	0.00	0.20	0.304	I 0					1.46
59.833	0.00	0.20	0.302	I 0					1.45
59.917	0.00	0.20	0.301	I 0					1.45

60.000	0.00	0.20	0.299	I 0					1.44
60.083	0.00	0.20	0.298	I 0					1.44
60.167	0.00	0.20	0.297	I 0					1.43
60.250	0.00	0.20	0.295	I 0					1.42
60.333	0.00	0.20	0.294	I 0					1.42
60.417	0.00	0.20	0.293	I 0					1.41
60.500	0.00	0.20	0.291	I 0					1.41
60.583	0.00	0.20	0.290	I 0					1.40
60.667	0.00	0.20	0.289	I 0					1.39
60.750	0.00	0.20	0.287	I 0					1.39
60.833	0.00	0.20	0.286	I 0					1.38
60.917	0.00	0.20	0.285	I 0					1.38
61.000	0.00	0.20	0.283	I 0					1.37
61.083	0.00	0.20	0.282	I 0					1.37
61.167	0.00	0.20	0.281	I 0					1.36
61.250	0.00	0.20	0.279	I 0					1.35
61.333	0.00	0.20	0.278	I 0					1.35
61.417	0.00	0.20	0.276	I 0					1.34
61.500	0.00	0.20	0.275	I 0					1.34
61.583	0.00	0.20	0.274	I 0					1.33
61.667	0.00	0.20	0.272	I 0					1.33
61.750	0.00	0.20	0.271	I 0					1.32
61.833	0.00	0.20	0.270	I 0					1.31
61.917	0.00	0.20	0.268	I 0					1.31
62.000	0.00	0.20	0.267	I 0					1.30
62.083	0.00	0.20	0.266	I 0					1.30
62.167	0.00	0.20	0.264	I 0					1.29
62.250	0.00	0.20	0.263	I 0					1.28
62.333	0.00	0.20	0.262	I 0					1.28
62.417	0.00	0.20	0.260	I 0					1.27
62.500	0.00	0.20	0.259	I 0					1.27
62.583	0.00	0.20	0.258	I 0					1.26
62.667	0.00	0.20	0.256	I 0					1.26
62.750	0.00	0.20	0.255	I 0					1.25
62.833	0.00	0.20	0.253	I 0					1.24
62.917	0.00	0.20	0.252	I 0					1.24
63.000	0.00	0.20	0.251	I 0					1.23
63.083	0.00	0.20	0.249	I 0					1.23
63.167	0.00	0.20	0.248	I 0					1.22
63.250	0.00	0.20	0.247	I 0					1.21
63.333	0.00	0.20	0.245	I 0					1.21
63.417	0.00	0.20	0.244	I 0					1.20
63.500	0.00	0.20	0.243	I 0					1.20
63.583	0.00	0.20	0.241	I 0					1.19
63.667	0.00	0.20	0.240	I 0					1.19
63.750	0.00	0.20	0.239	I 0					1.18
63.833	0.00	0.20	0.237	I 0					1.17
63.917	0.00	0.20	0.236	I 0					1.17
64.000	0.00	0.20	0.235	I 0					1.16
64.083	0.00	0.20	0.233	I 0					1.16

64.167	0.00	0.20	0.232	I 0					1.15
64.250	0.00	0.20	0.230	I 0					1.14
64.333	0.00	0.20	0.229	I 0					1.14
64.417	0.00	0.20	0.228	I 0					1.13
64.500	0.00	0.20	0.226	I 0					1.13
64.583	0.00	0.20	0.225	I 0					1.12
64.667	0.00	0.20	0.224	I 0					1.12
64.750	0.00	0.20	0.222	I 0					1.11
64.833	0.00	0.20	0.221	I 0					1.10
64.917	0.00	0.20	0.220	I 0					1.10
65.000	0.00	0.20	0.218	I 0					1.09
65.083	0.00	0.20	0.217	I 0					1.09
65.167	0.00	0.20	0.216	I 0					1.08
65.250	0.00	0.20	0.214	I 0					1.07
65.333	0.00	0.20	0.213	I 0					1.07
65.417	0.00	0.20	0.212	I 0					1.06
65.500	0.00	0.20	0.210	I 0					1.06
65.583	0.00	0.20	0.209	I 0					1.05
65.667	0.00	0.20	0.207	I 0					1.05
65.750	0.00	0.20	0.206	I 0					1.04
65.833	0.00	0.20	0.205	I 0					1.03
65.917	0.00	0.20	0.203	I 0					1.03
66.000	0.00	0.20	0.202	I 0					1.02
66.083	0.00	0.20	0.201	I 0					1.02
66.167	0.00	0.20	0.199	I 0					1.01
66.250	0.00	0.20	0.198	I 0					1.00
66.333	0.00	0.20	0.197	I 0					1.00
66.417	0.00	0.19	0.195	I 0					0.99
66.500	0.00	0.19	0.194	I 0					0.99
66.583	0.00	0.19	0.193	I 0					0.98
66.667	0.00	0.19	0.191	I 0					0.97
66.750	0.00	0.18	0.190	I 0					0.97
66.833	0.00	0.18	0.189	I 0					0.96
66.917	0.00	0.18	0.188	I 0					0.96
67.000	0.00	0.18	0.186	I 0					0.95
67.083	0.00	0.17	0.185	I 0					0.94
67.167	0.00	0.17	0.184	I 0					0.94
67.250	0.00	0.17	0.183	I 0					0.93
67.333	0.00	0.17	0.182	I 0					0.93
67.417	0.00	0.17	0.181	I 0					0.92
67.500	0.00	0.16	0.179	I 0					0.92
67.583	0.00	0.16	0.178	I 0					0.91
67.667	0.00	0.16	0.177	I 0					0.90
67.750	0.00	0.16	0.176	I 0					0.90
67.833	0.00	0.15	0.175	I 0					0.89
67.917	0.00	0.15	0.174	I 0					0.89
68.000	0.00	0.15	0.173	I 0					0.88
68.083	0.00	0.15	0.172	I 0					0.88
68.167	0.00	0.15	0.171	I 0					0.87
68.250	0.00	0.15	0.170	I 0					0.87

68.333	0.00	0.14	0.169	IO					0.86
68.417	0.00	0.14	0.168	IO					0.86
68.500	0.00	0.14	0.167	IO					0.86
68.583	0.00	0.14	0.166	IO					0.85
68.667	0.00	0.14	0.165	IO					0.85
68.750	0.00	0.13	0.164	IO					0.84
68.833	0.00	0.13	0.163	IO					0.84
68.917	0.00	0.13	0.162	IO					0.83
69.000	0.00	0.13	0.161	IO					0.83
69.083	0.00	0.13	0.161	IO					0.82
69.167	0.00	0.13	0.160	IO					0.82
69.250	0.00	0.12	0.159	IO					0.82
69.333	0.00	0.12	0.158	IO					0.81
69.417	0.00	0.12	0.157	IO					0.81
69.500	0.00	0.12	0.156	IO					0.80
69.583	0.00	0.12	0.155	IO					0.80
69.667	0.00	0.12	0.155	IO					0.80
69.750	0.00	0.11	0.154	IO					0.79
69.833	0.00	0.11	0.153	IO					0.79
69.917	0.00	0.11	0.152	IO					0.78
70.000	0.00	0.11	0.152	IO					0.78
70.083	0.00	0.11	0.151	IO					0.78
70.167	0.00	0.11	0.150	IO					0.77
70.250	0.00	0.11	0.149	IO					0.77
70.333	0.00	0.10	0.149	IO					0.77
70.417	0.00	0.10	0.148	IO					0.76
70.500	0.00	0.10	0.147	IO					0.76
70.583	0.00	0.10	0.146	IO					0.76
70.667	0.00	0.10	0.146	IO					0.75
70.750	0.00	0.10	0.145	IO					0.75
70.833	0.00	0.10	0.144	IO					0.75
70.917	0.00	0.10	0.144	IO					0.74
71.000	0.00	0.09	0.143	IO					0.74
71.083	0.00	0.09	0.142	IO					0.74
71.167	0.00	0.09	0.142	IO					0.73
71.250	0.00	0.09	0.141	IO					0.73
71.333	0.00	0.09	0.141	IO					0.73
71.417	0.00	0.09	0.140	IO					0.73
71.500	0.00	0.09	0.139	IO					0.72
71.583	0.00	0.09	0.139	IO					0.72
71.667	0.00	0.09	0.138	IO					0.72
71.750	0.00	0.08	0.138	IO					0.71
71.833	0.00	0.08	0.137	IO					0.71
71.917	0.00	0.08	0.136	IO					0.71
72.000	0.00	0.08	0.136	IO					0.71
72.083	0.00	0.08	0.135	IO					0.70
72.167	0.00	0.08	0.135	IO					0.70
72.250	0.00	0.08	0.134	IO					0.70
72.333	0.00	0.08	0.134	IO					0.70
72.417	0.00	0.08	0.133	IO					0.69

72.500	0.00	0.07	0.133	IO					0.69
72.583	0.00	0.07	0.132	IO					0.69
72.667	0.00	0.07	0.132	IO					0.69
72.750	0.00	0.07	0.131	0					0.68
72.833	0.00	0.07	0.131	0					0.68
72.917	0.00	0.07	0.130	0					0.68
73.000	0.00	0.07	0.130	0					0.68
73.083	0.00	0.07	0.129	0					0.67
73.167	0.00	0.07	0.129	0					0.67
73.250	0.00	0.07	0.128	0					0.67
73.333	0.00	0.07	0.128	0					0.67
73.417	0.00	0.06	0.127	0					0.67
73.500	0.00	0.06	0.127	0					0.66
73.583	0.00	0.06	0.126	0					0.66
73.667	0.00	0.06	0.126	0					0.66
73.750	0.00	0.06	0.126	0					0.66
73.833	0.00	0.06	0.125	0					0.65
73.917	0.00	0.06	0.125	0					0.65
74.000	0.00	0.06	0.124	0					0.65
74.083	0.00	0.06	0.124	0					0.65
74.167	0.00	0.06	0.124	0					0.65
74.250	0.00	0.06	0.123	0					0.64
74.333	0.00	0.06	0.123	0					0.64
74.417	0.00	0.06	0.122	0					0.64
74.500	0.00	0.05	0.122	0					0.64
74.583	0.00	0.05	0.122	0					0.64
74.667	0.00	0.05	0.121	0					0.64
74.750	0.00	0.05	0.121	0					0.63
74.833	0.00	0.05	0.121	0					0.63
74.917	0.00	0.05	0.120	0					0.63
75.000	0.00	0.05	0.120	0					0.63
75.083	0.00	0.05	0.119	0					0.63
75.167	0.00	0.05	0.119	0					0.63
75.250	0.00	0.05	0.119	0					0.62
75.333	0.00	0.05	0.118	0					0.62
75.417	0.00	0.05	0.118	0					0.62
75.500	0.00	0.05	0.118	0					0.62
75.583	0.00	0.05	0.117	0					0.62
75.667	0.00	0.05	0.117	0					0.62
75.750	0.00	0.05	0.117	0					0.61
75.833	0.00	0.04	0.117	0					0.61
75.917	0.00	0.04	0.116	0					0.61
76.000	0.00	0.04	0.116	0					0.61
76.083	0.00	0.04	0.116	0					0.61
76.167	0.00	0.04	0.115	0					0.61
76.250	0.00	0.04	0.115	0					0.61
76.333	0.00	0.04	0.115	0					0.60
76.417	0.00	0.04	0.114	0					0.60
76.500	0.00	0.04	0.114	0					0.60
76.583	0.00	0.04	0.114	0					0.60

76.667	0.00	0.04	0.114	0					0.60
76.750	0.00	0.04	0.113	0					0.60
76.833	0.00	0.04	0.113	0					0.60
76.917	0.00	0.04	0.113	0					0.60
77.000	0.00	0.04	0.113	0					0.59
77.083	0.00	0.04	0.112	0					0.59
77.167	0.00	0.04	0.112	0					0.59
77.250	0.00	0.04	0.112	0					0.59
77.333	0.00	0.04	0.112	0					0.59
77.417	0.00	0.03	0.111	0					0.59
77.500	0.00	0.03	0.111	0					0.59
77.583	0.00	0.03	0.111	0					0.59
77.667	0.00	0.03	0.111	0					0.59
77.750	0.00	0.03	0.110	0					0.58
77.833	0.00	0.03	0.110	0					0.58
77.917	0.00	0.03	0.110	0					0.58
78.000	0.00	0.03	0.110	0					0.58
78.083	0.00	0.03	0.110	0					0.58
78.167	0.00	0.03	0.109	0					0.58
78.250	0.00	0.03	0.109	0					0.58
78.333	0.00	0.03	0.109	0					0.58
78.417	0.00	0.03	0.109	0					0.58
78.500	0.00	0.03	0.109	0					0.57
78.583	0.00	0.03	0.108	0					0.57
78.667	0.00	0.03	0.108	0					0.57
78.750	0.00	0.03	0.108	0					0.57
78.833	0.00	0.03	0.108	0					0.57
78.917	0.00	0.03	0.108	0					0.57
79.000	0.00	0.03	0.107	0					0.57
79.083	0.00	0.03	0.107	0					0.57
79.167	0.00	0.03	0.107	0					0.57
79.250	0.00	0.03	0.107	0					0.57
79.333	0.00	0.03	0.107	0					0.57
79.417	0.00	0.03	0.106	0					0.56
79.500	0.00	0.03	0.106	0					0.56
79.583	0.00	0.02	0.106	0					0.56
79.667	0.00	0.02	0.106	0					0.56
79.750	0.00	0.02	0.106	0					0.56
79.833	0.00	0.02	0.106	0					0.56
79.917	0.00	0.02	0.105	0					0.56
80.000	0.00	0.02	0.105	0					0.56
80.083	0.00	0.02	0.105	0					0.56
80.167	0.00	0.02	0.105	0					0.56
80.250	0.00	0.02	0.105	0					0.56
80.333	0.00	0.02	0.105	0					0.56
80.417	0.00	0.02	0.105	0					0.56
80.500	0.00	0.02	0.104	0					0.55
80.583	0.00	0.02	0.104	0					0.55
80.667	0.00	0.02	0.104	0					0.55
80.750	0.00	0.02	0.104	0					0.55

80.833	0.00	0.02	0.104	0					0.55
80.917	0.00	0.02	0.104	0					0.55
81.000	0.00	0.02	0.104	0					0.55
81.083	0.00	0.02	0.103	0					0.55
81.167	0.00	0.02	0.103	0					0.55
81.250	0.00	0.02	0.103	0					0.55
81.333	0.00	0.02	0.103	0					0.55
81.417	0.00	0.02	0.103	0					0.55
81.500	0.00	0.02	0.103	0					0.55
81.583	0.00	0.02	0.103	0					0.55
81.667	0.00	0.02	0.102	0					0.55
81.750	0.00	0.02	0.102	0					0.54
81.833	0.00	0.02	0.102	0					0.54
81.917	0.00	0.02	0.102	0					0.54
82.000	0.00	0.02	0.102	0					0.54
82.083	0.00	0.02	0.102	0					0.54
82.167	0.00	0.02	0.102	0					0.54
82.250	0.00	0.02	0.102	0					0.54
82.333	0.00	0.02	0.102	0					0.54
82.417	0.00	0.02	0.101	0					0.54
82.500	0.00	0.02	0.101	0					0.54
82.583	0.00	0.02	0.101	0					0.54
82.667	0.00	0.02	0.101	0					0.54
82.750	0.00	0.02	0.101	0					0.54
82.833	0.00	0.01	0.101	0					0.54
82.917	0.00	0.01	0.101	0					0.54
83.000	0.00	0.01	0.101	0					0.54
83.083	0.00	0.01	0.101	0					0.54
83.167	0.00	0.01	0.100	0					0.54
83.250	0.00	0.01	0.100	0					0.54
83.333	0.00	0.01	0.100	0					0.54
83.417	0.00	0.01	0.100	0					0.53
83.500	0.00	0.01	0.100	0					0.53
83.583	0.00	0.01	0.100	0					0.53
83.667	0.00	0.01	0.100	0					0.53
83.750	0.00	0.01	0.100	0					0.53
83.833	0.00	0.01	0.100	0					0.53
83.917	0.00	0.01	0.100	0					0.53
84.000	0.00	0.01	0.100	0					0.53
84.083	0.00	0.01	0.099	0					0.53
84.167	0.00	0.01	0.099	0					0.53
84.250	0.00	0.01	0.099	0					0.53
84.333	0.00	0.01	0.099	0					0.53
84.417	0.00	0.01	0.099	0					0.53
84.500	0.00	0.01	0.099	0					0.53
84.583	0.00	0.01	0.099	0					0.53
84.667	0.00	0.01	0.099	0					0.53
84.750	0.00	0.01	0.099	0					0.53
84.833	0.00	0.01	0.099	0					0.53
84.917	0.00	0.01	0.099	0					0.53

85.000	0.00	0.01	0.099	0					0.53
85.083	0.00	0.01	0.099	0					0.53
85.167	0.00	0.01	0.098	0					0.53
85.250	0.00	0.01	0.098	0					0.53
85.333	0.00	0.01	0.098	0					0.53
85.417	0.00	0.01	0.098	0					0.53
85.500	0.00	0.01	0.098	0					0.53
85.583	0.00	0.01	0.098	0					0.52
85.667	0.00	0.01	0.098	0					0.52
85.750	0.00	0.01	0.098	0					0.52
85.833	0.00	0.01	0.098	0					0.52
85.917	0.00	0.01	0.098	0					0.52
86.000	0.00	0.01	0.098	0					0.52
86.083	0.00	0.01	0.098	0					0.52
86.167	0.00	0.01	0.098	0					0.52
86.250	0.00	0.01	0.098	0					0.52
86.333	0.00	0.01	0.098	0					0.52
86.417	0.00	0.01	0.098	0					0.52
86.500	0.00	0.01	0.097	0					0.52
86.583	0.00	0.01	0.097	0					0.52
86.667	0.00	0.01	0.097	0					0.52
86.750	0.00	0.01	0.097	0					0.52
86.833	0.00	0.01	0.097	0					0.52
86.917	0.00	0.01	0.097	0					0.52
87.000	0.00	0.01	0.097	0					0.52
87.083	0.00	0.01	0.097	0					0.52
87.167	0.00	0.01	0.097	0					0.52
87.250	0.00	0.01	0.097	0					0.52
87.333	0.00	0.01	0.097	0					0.52
87.417	0.00	0.01	0.097	0					0.52
87.500	0.00	0.01	0.097	0					0.52
87.583	0.00	0.01	0.097	0					0.52
87.667	0.00	0.01	0.097	0					0.52
87.750	0.00	0.01	0.097	0					0.52
87.833	0.00	0.01	0.097	0					0.52
87.917	0.00	0.01	0.097	0					0.52
88.000	0.00	0.01	0.097	0					0.52
88.083	0.00	0.01	0.096	0					0.52
88.167	0.00	0.01	0.096	0					0.52
88.250	0.00	0.01	0.096	0					0.52
88.333	0.00	0.01	0.096	0					0.52
88.417	0.00	0.01	0.096	0					0.52
88.500	0.00	0.01	0.096	0					0.52
88.583	0.00	0.01	0.096	0					0.52
88.667	0.00	0.01	0.096	0					0.52
88.750	0.00	0.01	0.096	0					0.52
88.833	0.00	0.01	0.096	0					0.51
88.917	0.00	0.01	0.096	0					0.51
89.000	0.00	0.01	0.096	0					0.51
89.083	0.00	0.01	0.096	0					0.51

89.167	0.00	0.01	0.096	0					0.51
89.250	0.00	0.01	0.096	0					0.51
89.333	0.00	0.01	0.096	0					0.51
89.417	0.00	0.01	0.096	0					0.51
89.500	0.00	0.01	0.096	0					0.51
89.583	0.00	0.01	0.096	0					0.51
89.667	0.00	0.01	0.096	0					0.51
89.750	0.00	0.01	0.096	0					0.51
89.833	0.00	0.01	0.096	0					0.51
89.917	0.00	0.00	0.096	0					0.51
90.000	0.00	0.00	0.096	0					0.51
90.083	0.00	0.00	0.096	0					0.51
90.167	0.00	0.00	0.096	0					0.51
90.250	0.00	0.00	0.095	0					0.51
90.333	0.00	0.00	0.095	0					0.51
90.417	0.00	0.00	0.095	0					0.51
90.500	0.00	0.00	0.095	0					0.51
90.583	0.00	0.00	0.095	0					0.51
90.667	0.00	0.00	0.095	0					0.51
90.750	0.00	0.00	0.095	0					0.51
90.833	0.00	0.00	0.095	0					0.51
90.917	0.00	0.00	0.095	0					0.51
91.000	0.00	0.00	0.095	0					0.51
91.083	0.00	0.00	0.095	0					0.51
91.167	0.00	0.00	0.095	0					0.51
91.250	0.00	0.00	0.095	0					0.51
91.333	0.00	0.00	0.095	0					0.51
91.417	0.00	0.00	0.095	0					0.51
91.500	0.00	0.00	0.095	0					0.51
91.583	0.00	0.00	0.095	0					0.51
91.667	0.00	0.00	0.095	0					0.51
91.750	0.00	0.00	0.095	0					0.51
91.833	0.00	0.00	0.095	0					0.51
91.917	0.00	0.00	0.095	0					0.51
92.000	0.00	0.00	0.095	0					0.51
92.083	0.00	0.00	0.095	0					0.51
92.167	0.00	0.00	0.095	0					0.51
92.250	0.00	0.00	0.095	0					0.51
92.333	0.00	0.00	0.095	0					0.51
92.417	0.00	0.00	0.095	0					0.51
92.500	0.00	0.00	0.095	0					0.51
92.583	0.00	0.00	0.095	0					0.51
92.667	0.00	0.00	0.095	0					0.51
92.750	0.00	0.00	0.095	0					0.51
92.833	0.00	0.00	0.095	0					0.51
92.917	0.00	0.00	0.095	0					0.51
93.000	0.00	0.00	0.095	0					0.51
93.083	0.00	0.00	0.095	0					0.51
93.167	0.00	0.00	0.095	0					0.51
93.250	0.00	0.00	0.095	0					0.51

93.333	0.00	0.00	0.095	0					0.51
93.417	0.00	0.00	0.095	0					0.51
93.500	0.00	0.00	0.094	0					0.51
93.583	0.00	0.00	0.094	0					0.51
93.667	0.00	0.00	0.094	0					0.51
93.750	0.00	0.00	0.094	0					0.51
93.833	0.00	0.00	0.094	0					0.51
93.917	0.00	0.00	0.094	0					0.51
94.000	0.00	0.00	0.094	0					0.51
94.083	0.00	0.00	0.094	0					0.51
94.167	0.00	0.00	0.094	0					0.51
94.250	0.00	0.00	0.094	0					0.51
94.333	0.00	0.00	0.094	0					0.51
94.417	0.00	0.00	0.094	0					0.51
94.500	0.00	0.00	0.094	0					0.51
94.583	0.00	0.00	0.094	0					0.51
94.667	0.00	0.00	0.094	0					0.51
94.750	0.00	0.00	0.094	0					0.51
94.833	0.00	0.00	0.094	0					0.51
94.917	0.00	0.00	0.094	0					0.51
95.000	0.00	0.00	0.094	0					0.51
95.083	0.00	0.00	0.094	0					0.51
95.167	0.00	0.00	0.094	0					0.51
95.250	0.00	0.00	0.094	0					0.51
95.333	0.00	0.00	0.094	0					0.51
95.417	0.00	0.00	0.094	0					0.51
95.500	0.00	0.00	0.094	0					0.51
95.583	0.00	0.00	0.094	0					0.51
95.667	0.00	0.00	0.094	0					0.51
95.750	0.00	0.00	0.094	0					0.51
95.833	0.00	0.00	0.094	0					0.50
95.917	0.00	0.00	0.094	0					0.50
96.000	0.00	0.00	0.094	0					0.50
96.083	0.00	0.00	0.094	0					0.50
96.167	0.00	0.00	0.094	0					0.50
96.250	0.00	0.00	0.094	0					0.50
96.333	0.00	0.00	0.094	0					0.50
96.417	0.00	0.00	0.094	0					0.50
96.500	0.00	0.00	0.094	0					0.50
96.583	0.00	0.00	0.094	0					0.50
96.667	0.00	0.00	0.094	0					0.50
96.750	0.00	0.00	0.094	0					0.50
96.833	0.00	0.00	0.094	0					0.50
96.917	0.00	0.00	0.094	0					0.50
97.000	0.00	0.00	0.094	0					0.50
97.083	0.00	0.00	0.094	0					0.50
97.167	0.00	0.00	0.094	0					0.50
97.250	0.00	0.00	0.094	0					0.50
97.333	0.00	0.00	0.094	0					0.50
97.417	0.00	0.00	0.094	0					0.50

97.500	0.00	0.00	0.094	0					0.50
97.583	0.00	0.00	0.094	0					0.50
97.667	0.00	0.00	0.094	0					0.50
97.750	0.00	0.00	0.094	0					0.50
97.833	0.00	0.00	0.094	0					0.50
97.917	0.00	0.00	0.094	0					0.50
98.000	0.00	0.00	0.094	0					0.50
98.083	0.00	0.00	0.094	0					0.50
98.167	0.00	0.00	0.094	0					0.50
98.250	0.00	0.00	0.094	0					0.50
98.333	0.00	0.00	0.094	0					0.50
98.417	0.00	0.00	0.094	0					0.50
98.500	0.00	0.00	0.094	0					0.50
98.583	0.00	0.00	0.094	0					0.50
98.667	0.00	0.00	0.094	0					0.50
98.750	0.00	0.00	0.094	0					0.50
98.833	0.00	0.00	0.094	0					0.50
98.917	0.00	0.00	0.094	0					0.50
99.000	0.00	0.00	0.094	0					0.50
99.083	0.00	0.00	0.094	0					0.50
99.167	0.00	0.00	0.094	0					0.50
99.250	0.00	0.00	0.094	0					0.50
99.333	0.00	0.00	0.094	0					0.50
99.417	0.00	0.00	0.094	0					0.50
99.500	0.00	0.00	0.094	0					0.50
99.583	0.00	0.00	0.094	0					0.50
99.667	0.00	0.00	0.094	0					0.50
99.750	0.00	0.00	0.094	0					0.50
99.833	0.00	0.00	0.094	0					0.50
99.917	0.00	0.00	0.094	0					0.50
100.000	0.00	0.00	0.094	0					0.50
100.083	0.00	0.00	0.094	0					0.50
100.167	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 1202

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 1.346 (CFS)

Total volume = 1.251 (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

DMA 1 Proposed 100-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 100YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH1100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 15
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 18.643 (CFS)
Total volume = 0.661 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 15

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	0	4.7	9.32	13.98	18.64	Depth (Ft.)
0.083	2.10	0.00	0.007	0	I				0.04
0.167	3.78	0.00	0.027	0	I				0.15
0.250	4.56	0.00	0.056	0	I				0.30
0.333	5.00	0.00	0.089	0	I				0.48
0.417	5.22	0.06	0.124	0	I				0.65
0.500	5.71	0.13	0.161	0	I				0.83
0.583	6.78	0.20	0.203	0	I				1.03
0.667	8.04	0.20	0.253	0	I				1.24
0.750	10.52	0.20	0.315	0		I			1.51
0.833	18.64	0.20	0.414	0				I	1.90
0.917	14.94	0.20	0.529	0			I		2.32
1.000	7.34	0.20	0.604	0	I				2.58
1.083	2.83	0.20	0.638	0	I				2.69
1.167	0.46	0.20	0.648	0					2.72
1.250	0.09	0.20	0.648	0					2.72
1.333	0.00	0.20	0.647	0					2.72
1.417	0.00	0.20	0.646	0					2.72
1.500	0.00	0.20	0.645	0					2.71
1.583	0.00	0.20	0.643	0					2.71

1.667	0.00	0.20	0.642	0					2.70
1.750	0.00	0.20	0.640	0					2.70
1.833	0.00	0.20	0.639	0					2.69
1.917	0.00	0.20	0.638	0					2.69
2.000	0.00	0.20	0.636	0					2.69
2.083	0.00	0.20	0.635	0					2.68
2.167	0.00	0.20	0.634	0					2.68
2.250	0.00	0.20	0.632	0					2.67
2.333	0.00	0.20	0.631	0					2.67
2.417	0.00	0.20	0.630	0					2.66
2.500	0.00	0.20	0.628	0					2.66
2.583	0.00	0.20	0.627	0					2.65
2.667	0.00	0.20	0.626	0					2.65
2.750	0.00	0.20	0.624	0					2.65
2.833	0.00	0.20	0.623	0					2.64
2.917	0.00	0.20	0.622	0					2.64
3.000	0.00	0.20	0.620	0					2.63
3.083	0.00	0.20	0.619	0					2.63
3.167	0.00	0.20	0.617	0					2.62
3.250	0.00	0.20	0.616	0					2.62
3.333	0.00	0.20	0.615	0					2.61
3.417	0.00	0.20	0.613	0					2.61
3.500	0.00	0.20	0.612	0					2.61
3.583	0.00	0.20	0.611	0					2.60
3.667	0.00	0.20	0.609	0					2.60
3.750	0.00	0.20	0.608	0					2.59
3.833	0.00	0.20	0.607	0					2.59
3.917	0.00	0.20	0.605	0					2.58
4.000	0.00	0.20	0.604	0					2.58
4.083	0.00	0.20	0.603	0					2.57
4.167	0.00	0.20	0.601	0					2.57
4.250	0.00	0.20	0.600	0					2.57
4.333	0.00	0.20	0.599	0					2.56
4.417	0.00	0.20	0.597	0					2.56
4.500	0.00	0.20	0.596	0					2.55
4.583	0.00	0.20	0.594	0					2.55
4.667	0.00	0.20	0.593	0					2.54
4.750	0.00	0.20	0.592	0					2.54
4.833	0.00	0.20	0.590	0					2.53
4.917	0.00	0.20	0.589	0					2.53
5.000	0.00	0.20	0.588	0					2.53
5.083	0.00	0.20	0.586	0					2.52
5.167	0.00	0.20	0.585	0					2.52
5.250	0.00	0.20	0.584	0					2.51
5.333	0.00	0.20	0.582	0					2.51
5.417	0.00	0.20	0.581	0					2.50
5.500	0.00	0.20	0.580	0					2.50
5.583	0.00	0.20	0.578	0					2.49
5.667	0.00	0.20	0.577	0					2.49
5.750	0.00	0.20	0.576	0					2.48

5.833	0.00	0.20	0.574	0					2.48
5.917	0.00	0.20	0.573	0					2.47
6.000	0.00	0.20	0.571	0					2.47
6.083	0.00	0.20	0.570	0					2.46
6.167	0.00	0.20	0.569	0					2.46
6.250	0.00	0.20	0.567	0					2.46
6.333	0.00	0.20	0.566	0					2.45
6.417	0.00	0.20	0.565	0					2.45
6.500	0.00	0.20	0.563	0					2.44
6.583	0.00	0.20	0.562	0					2.44
6.667	0.00	0.20	0.561	0					2.43
6.750	0.00	0.20	0.559	0					2.43
6.833	0.00	0.20	0.558	0					2.42
6.917	0.00	0.20	0.557	0					2.42
7.000	0.00	0.20	0.555	0					2.41
7.083	0.00	0.20	0.554	0					2.41
7.167	0.00	0.20	0.553	0					2.40
7.250	0.00	0.20	0.551	0					2.40
7.333	0.00	0.20	0.550	0					2.39
7.417	0.00	0.20	0.548	0					2.39
7.500	0.00	0.20	0.547	0					2.38
7.583	0.00	0.20	0.546	0					2.38
7.667	0.00	0.20	0.544	0					2.37
7.750	0.00	0.20	0.543	0					2.37
7.833	0.00	0.20	0.542	0					2.36
7.917	0.00	0.20	0.540	0					2.36
8.000	0.00	0.20	0.539	0					2.35
8.083	0.00	0.20	0.538	0					2.35
8.167	0.00	0.20	0.536	0					2.34
8.250	0.00	0.20	0.535	0					2.34
8.333	0.00	0.20	0.534	0					2.33
8.417	0.00	0.20	0.532	0					2.33
8.500	0.00	0.20	0.531	0					2.32
8.583	0.00	0.20	0.530	0					2.32
8.667	0.00	0.20	0.528	0					2.32
8.750	0.00	0.20	0.527	0					2.31
8.833	0.00	0.20	0.526	0					2.31
8.917	0.00	0.20	0.524	0					2.30
9.000	0.00	0.20	0.523	0					2.30
9.083	0.00	0.20	0.521	0					2.29
9.167	0.00	0.20	0.520	0					2.29
9.250	0.00	0.20	0.519	0					2.28
9.333	0.00	0.20	0.517	0					2.28
9.417	0.00	0.20	0.516	0					2.27
9.500	0.00	0.20	0.515	0					2.27
9.583	0.00	0.20	0.513	0					2.26
9.667	0.00	0.20	0.512	0					2.26
9.750	0.00	0.20	0.511	0					2.25
9.833	0.00	0.20	0.509	0					2.25
9.917	0.00	0.20	0.508	0					2.24

10.000	0.00	0.20	0.507	0					2.24
10.083	0.00	0.20	0.505	0					2.23
10.167	0.00	0.20	0.504	0					2.23
10.250	0.00	0.20	0.503	0					2.22
10.333	0.00	0.20	0.501	0					2.22
10.417	0.00	0.20	0.500	0					2.21
10.500	0.00	0.20	0.498	0					2.21
10.583	0.00	0.20	0.497	0					2.20
10.667	0.00	0.20	0.496	0					2.20
10.750	0.00	0.20	0.494	0					2.19
10.833	0.00	0.20	0.493	0					2.19
10.917	0.00	0.20	0.492	0					2.18
11.000	0.00	0.20	0.490	0					2.18
11.083	0.00	0.20	0.489	0					2.17
11.167	0.00	0.20	0.488	0					2.17
11.250	0.00	0.20	0.486	0					2.17
11.333	0.00	0.20	0.485	0					2.16
11.417	0.00	0.20	0.484	0					2.16
11.500	0.00	0.20	0.482	0					2.15
11.583	0.00	0.20	0.481	0					2.15
11.667	0.00	0.20	0.480	0					2.14
11.750	0.00	0.20	0.478	0					2.14
11.833	0.00	0.20	0.477	0					2.13
11.917	0.00	0.20	0.475	0					2.13
12.000	0.00	0.20	0.474	0					2.12
12.083	0.00	0.20	0.473	0					2.12
12.167	0.00	0.20	0.471	0					2.11
12.250	0.00	0.20	0.470	0					2.11
12.333	0.00	0.20	0.469	0					2.10
12.417	0.00	0.20	0.467	0					2.10
12.500	0.00	0.20	0.466	0					2.09
12.583	0.00	0.20	0.465	0					2.09
12.667	0.00	0.20	0.463	0					2.08
12.750	0.00	0.20	0.462	0					2.08
12.833	0.00	0.20	0.461	0					2.07
12.917	0.00	0.20	0.459	0					2.07
13.000	0.00	0.20	0.458	0					2.06
13.083	0.00	0.20	0.457	0					2.06
13.167	0.00	0.20	0.455	0					2.05
13.250	0.00	0.20	0.454	0					2.05
13.333	0.00	0.20	0.452	0					2.04
13.417	0.00	0.20	0.451	0					2.04
13.500	0.00	0.20	0.450	0					2.03
13.583	0.00	0.20	0.448	0					2.03
13.667	0.00	0.20	0.447	0					2.03
13.750	0.00	0.20	0.446	0					2.02
13.833	0.00	0.20	0.444	0					2.02
13.917	0.00	0.20	0.443	0					2.01
14.000	0.00	0.20	0.442	0					2.01
14.083	0.00	0.20	0.440	0					2.00

14.167	0.00	0.20	0.439	0					2.00
14.250	0.00	0.20	0.438	0					1.99
14.333	0.00	0.20	0.436	0					1.99
14.417	0.00	0.20	0.435	0					1.98
14.500	0.00	0.20	0.434	0					1.97
14.583	0.00	0.20	0.432	0					1.97
14.667	0.00	0.20	0.431	0					1.96
14.750	0.00	0.20	0.429	0					1.96
14.833	0.00	0.20	0.428	0					1.95
14.917	0.00	0.20	0.427	0					1.95
15.000	0.00	0.20	0.425	0					1.94
15.083	0.00	0.20	0.424	0					1.94
15.167	0.00	0.20	0.423	0					1.93
15.250	0.00	0.20	0.421	0					1.93
15.333	0.00	0.20	0.420	0					1.92
15.417	0.00	0.20	0.419	0					1.92
15.500	0.00	0.20	0.417	0					1.91
15.583	0.00	0.20	0.416	0					1.91
15.667	0.00	0.20	0.415	0					1.90
15.750	0.00	0.20	0.413	0					1.89
15.833	0.00	0.20	0.412	0					1.89
15.917	0.00	0.20	0.411	0					1.88
16.000	0.00	0.20	0.409	0					1.88
16.083	0.00	0.20	0.408	0					1.87
16.167	0.00	0.20	0.407	0					1.87
16.250	0.00	0.20	0.405	0					1.86
16.333	0.00	0.20	0.404	0					1.86
16.417	0.00	0.20	0.402	0					1.85
16.500	0.00	0.20	0.401	0					1.85
16.583	0.00	0.20	0.400	0					1.84
16.667	0.00	0.20	0.398	0					1.84
16.750	0.00	0.20	0.397	0					1.83
16.833	0.00	0.20	0.396	0					1.83
16.917	0.00	0.20	0.394	0					1.82
17.000	0.00	0.20	0.393	0					1.81
17.083	0.00	0.20	0.392	0					1.81
17.167	0.00	0.20	0.390	0					1.80
17.250	0.00	0.20	0.389	0					1.80
17.333	0.00	0.20	0.388	0					1.79
17.417	0.00	0.20	0.386	0					1.79
17.500	0.00	0.20	0.385	0					1.78
17.583	0.00	0.20	0.384	0					1.78
17.667	0.00	0.20	0.382	0					1.77
17.750	0.00	0.20	0.381	0					1.77
17.833	0.00	0.20	0.379	0					1.76
17.917	0.00	0.20	0.378	0					1.76
18.000	0.00	0.20	0.377	0					1.75
18.083	0.00	0.20	0.375	0					1.75
18.167	0.00	0.20	0.374	0					1.74
18.250	0.00	0.20	0.373	0					1.74

18.333	0.00	0.20	0.371	0				1.73
18.417	0.00	0.20	0.370	0				1.72
18.500	0.00	0.20	0.369	0				1.72
18.583	0.00	0.20	0.367	0				1.71
18.667	0.00	0.20	0.366	0				1.71
18.750	0.00	0.20	0.365	0				1.70
18.833	0.00	0.20	0.363	0				1.70
18.917	0.00	0.20	0.362	0				1.69
19.000	0.00	0.20	0.361	0				1.69
19.083	0.00	0.20	0.359	0				1.68
19.167	0.00	0.20	0.358	0				1.68
19.250	0.00	0.20	0.356	0				1.67
19.333	0.00	0.20	0.355	0				1.67
19.417	0.00	0.20	0.354	0				1.66
19.500	0.00	0.20	0.352	0				1.66
19.583	0.00	0.20	0.351	0				1.65
19.667	0.00	0.20	0.350	0				1.64
19.750	0.00	0.20	0.348	0				1.64
19.833	0.00	0.20	0.347	0				1.63
19.917	0.00	0.20	0.346	0				1.63
20.000	0.00	0.20	0.344	0				1.62
20.083	0.00	0.20	0.343	0				1.62
20.167	0.00	0.20	0.342	0				1.61
20.250	0.00	0.20	0.340	0				1.61
20.333	0.00	0.20	0.339	0				1.60
20.417	0.00	0.20	0.338	0				1.60
20.500	0.00	0.20	0.336	0				1.59
20.583	0.00	0.20	0.335	0				1.59
20.667	0.00	0.20	0.333	0				1.58
20.750	0.00	0.20	0.332	0				1.58
20.833	0.00	0.20	0.331	0				1.57
20.917	0.00	0.20	0.329	0				1.56
21.000	0.00	0.20	0.328	0				1.56
21.083	0.00	0.20	0.327	0				1.55
21.167	0.00	0.20	0.325	0				1.55
21.250	0.00	0.20	0.324	0				1.54
21.333	0.00	0.20	0.323	0				1.54
21.417	0.00	0.20	0.321	0				1.53
21.500	0.00	0.20	0.320	0				1.53
21.583	0.00	0.20	0.319	0				1.52
21.667	0.00	0.20	0.317	0				1.52
21.750	0.00	0.20	0.316	0				1.51
21.833	0.00	0.20	0.315	0				1.51
21.917	0.00	0.20	0.313	0				1.50
22.000	0.00	0.20	0.312	0				1.50
22.083	0.00	0.20	0.310	0				1.49
22.167	0.00	0.20	0.309	0				1.48
22.250	0.00	0.20	0.308	0				1.48
22.333	0.00	0.20	0.306	0				1.47
22.417	0.00	0.20	0.305	0				1.47

22.500	0.00	0.20	0.304	0					1.46
22.583	0.00	0.20	0.302	0					1.45
22.667	0.00	0.20	0.301	0					1.45
22.750	0.00	0.20	0.300	0					1.44
22.833	0.00	0.20	0.298	0					1.44
22.917	0.00	0.20	0.297	0					1.43
23.000	0.00	0.20	0.296	0					1.43
23.083	0.00	0.20	0.294	0					1.42
23.167	0.00	0.20	0.293	0					1.41
23.250	0.00	0.20	0.292	0					1.41
23.333	0.00	0.20	0.290	0					1.40
23.417	0.00	0.20	0.289	0					1.40
23.500	0.00	0.20	0.288	0					1.39
23.583	0.00	0.20	0.286	0					1.38
23.667	0.00	0.20	0.285	0					1.38
23.750	0.00	0.20	0.283	0					1.37
23.833	0.00	0.20	0.282	0					1.37
23.917	0.00	0.20	0.281	0					1.36
24.000	0.00	0.20	0.279	0					1.36
24.083	0.00	0.20	0.278	0					1.35
24.167	0.00	0.20	0.277	0					1.34
24.250	0.00	0.20	0.275	0					1.34
24.333	0.00	0.20	0.274	0					1.33
24.417	0.00	0.20	0.273	0					1.33
24.500	0.00	0.20	0.271	0					1.32
24.583	0.00	0.20	0.270	0					1.31
24.667	0.00	0.20	0.269	0					1.31
24.750	0.00	0.20	0.267	0					1.30
24.833	0.00	0.20	0.266	0					1.30
24.917	0.00	0.20	0.265	0					1.29
25.000	0.00	0.20	0.263	0					1.29
25.083	0.00	0.20	0.262	0					1.28
25.167	0.00	0.20	0.260	0					1.27
25.250	0.00	0.20	0.259	0					1.27
25.333	0.00	0.20	0.258	0					1.26
25.417	0.00	0.20	0.256	0					1.26
25.500	0.00	0.20	0.255	0					1.25
25.583	0.00	0.20	0.254	0					1.24
25.667	0.00	0.20	0.252	0					1.24
25.750	0.00	0.20	0.251	0					1.23
25.833	0.00	0.20	0.250	0					1.23
25.917	0.00	0.20	0.248	0					1.22
26.000	0.00	0.20	0.247	0					1.22
26.083	0.00	0.20	0.246	0					1.21
26.167	0.00	0.20	0.244	0					1.20
26.250	0.00	0.20	0.243	0					1.20
26.333	0.00	0.20	0.242	0					1.19
26.417	0.00	0.20	0.240	0					1.19
26.500	0.00	0.20	0.239	0					1.18
26.583	0.00	0.20	0.237	0					1.17

26.667	0.00	0.20	0.236	0					1.17
26.750	0.00	0.20	0.235	0					1.16
26.833	0.00	0.20	0.233	0					1.16
26.917	0.00	0.20	0.232	0					1.15
27.000	0.00	0.20	0.231	0					1.15
27.083	0.00	0.20	0.229	0					1.14
27.167	0.00	0.20	0.228	0					1.13
27.250	0.00	0.20	0.227	0					1.13
27.333	0.00	0.20	0.225	0					1.12
27.417	0.00	0.20	0.224	0					1.12
27.500	0.00	0.20	0.223	0					1.11
27.583	0.00	0.20	0.221	0					1.10
27.667	0.00	0.20	0.220	0					1.10
27.750	0.00	0.20	0.219	0					1.09
27.833	0.00	0.20	0.217	0					1.09
27.917	0.00	0.20	0.216	0					1.08
28.000	0.00	0.20	0.214	0					1.08
28.083	0.00	0.20	0.213	0					1.07
28.167	0.00	0.20	0.212	0					1.06
28.250	0.00	0.20	0.210	0					1.06
28.333	0.00	0.20	0.209	0					1.05
28.417	0.00	0.20	0.208	0					1.05
28.500	0.00	0.20	0.206	0					1.04
28.583	0.00	0.20	0.205	0					1.03
28.667	0.00	0.20	0.204	0					1.03
28.750	0.00	0.20	0.202	0					1.02
28.833	0.00	0.20	0.201	0					1.02
28.917	0.00	0.20	0.200	0					1.01
29.000	0.00	0.20	0.198	0					1.01
29.083	0.00	0.20	0.197	0					1.00
29.167	0.00	0.19	0.196	0					0.99
29.250	0.00	0.19	0.194	0					0.99
29.333	0.00	0.19	0.193	0					0.98
29.417	0.00	0.19	0.192	0					0.97
29.500	0.00	0.18	0.190	0					0.97
29.583	0.00	0.18	0.189	0					0.96
29.667	0.00	0.18	0.188	0					0.96
29.750	0.00	0.18	0.187	0					0.95
29.833	0.00	0.17	0.185	0					0.94
29.917	0.00	0.17	0.184	0					0.94
30.000	0.00	0.17	0.183	0					0.93
30.083	0.00	0.17	0.182	0					0.93
30.167	0.00	0.17	0.181	0					0.92
30.250	0.00	0.16	0.180	0					0.92
30.333	0.00	0.16	0.178	0					0.91
30.417	0.00	0.16	0.177	0					0.91
30.500	0.00	0.16	0.176	0					0.90
30.583	0.00	0.16	0.175	0					0.90
30.667	0.00	0.15	0.174	0					0.89
30.750	0.00	0.15	0.173	0					0.89

30.833	0.00	0.15	0.172	0					0.88
30.917	0.00	0.15	0.171	0					0.88
31.000	0.00	0.15	0.170	0					0.87
31.083	0.00	0.14	0.169	0					0.87
31.167	0.00	0.14	0.168	0					0.86
31.250	0.00	0.14	0.167	0					0.86
31.333	0.00	0.14	0.166	0					0.85
31.417	0.00	0.14	0.165	0					0.85
31.500	0.00	0.13	0.164	0					0.84
31.583	0.00	0.13	0.163	0					0.84
31.667	0.00	0.13	0.162	0					0.83
31.750	0.00	0.13	0.162	0					0.83
31.833	0.00	0.13	0.161	0					0.83
31.917	0.00	0.13	0.160	0					0.82
32.000	0.00	0.12	0.159	0					0.82
32.083	0.00	0.12	0.158	0					0.81
32.167	0.00	0.12	0.157	0					0.81
32.250	0.00	0.12	0.156	0					0.80
32.333	0.00	0.12	0.156	0					0.80
32.417	0.00	0.12	0.155	0					0.80
32.500	0.00	0.12	0.154	0					0.79
32.583	0.00	0.11	0.153	0					0.79
32.667	0.00	0.11	0.152	0					0.79
32.750	0.00	0.11	0.152	0					0.78
32.833	0.00	0.11	0.151	0					0.78
32.917	0.00	0.11	0.150	0					0.77
33.000	0.00	0.11	0.149	0					0.77
33.083	0.00	0.11	0.149	0					0.77
33.167	0.00	0.10	0.148	0					0.76
33.250	0.00	0.10	0.147	0					0.76
33.333	0.00	0.10	0.147	0					0.76
33.417	0.00	0.10	0.146	0					0.75
33.500	0.00	0.10	0.145	0					0.75
33.583	0.00	0.10	0.144	0					0.75
33.667	0.00	0.10	0.144	0					0.74
33.750	0.00	0.09	0.143	0					0.74
33.833	0.00	0.09	0.143	0					0.74
33.917	0.00	0.09	0.142	0					0.73
34.000	0.00	0.09	0.141	0					0.73
34.083	0.00	0.09	0.141	0					0.73
34.167	0.00	0.09	0.140	0					0.73
34.250	0.00	0.09	0.139	0					0.72
34.333	0.00	0.09	0.139	0					0.72
34.417	0.00	0.09	0.138	0					0.72
34.500	0.00	0.08	0.138	0					0.71
34.583	0.00	0.08	0.137	0					0.71
34.667	0.00	0.08	0.136	0					0.71
34.750	0.00	0.08	0.136	0					0.71
34.833	0.00	0.08	0.135	0					0.70
34.917	0.00	0.08	0.135	0					0.70

35.000	0.00	0.08	0.134	0				0.70
35.083	0.00	0.08	0.134	0				0.70
35.167	0.00	0.08	0.133	0				0.69
35.250	0.00	0.07	0.133	0				0.69
35.333	0.00	0.07	0.132	0				0.69
35.417	0.00	0.07	0.132	0				0.69
35.500	0.00	0.07	0.131	0				0.68
35.583	0.00	0.07	0.131	0				0.68
35.667	0.00	0.07	0.130	0				0.68
35.750	0.00	0.07	0.130	0				0.68
35.833	0.00	0.07	0.129	0				0.67
35.917	0.00	0.07	0.129	0				0.67
36.000	0.00	0.07	0.128	0				0.67
36.083	0.00	0.07	0.128	0				0.67
36.167	0.00	0.06	0.127	0				0.67
36.250	0.00	0.06	0.127	0				0.66
36.333	0.00	0.06	0.127	0				0.66
36.417	0.00	0.06	0.126	0				0.66
36.500	0.00	0.06	0.126	0				0.66
36.583	0.00	0.06	0.125	0				0.65
36.667	0.00	0.06	0.125	0				0.65
36.750	0.00	0.06	0.124	0				0.65
36.833	0.00	0.06	0.124	0				0.65
36.917	0.00	0.06	0.124	0				0.65
37.000	0.00	0.06	0.123	0				0.65
37.083	0.00	0.06	0.123	0				0.64
37.167	0.00	0.06	0.122	0				0.64
37.250	0.00	0.05	0.122	0				0.64
37.333	0.00	0.05	0.122	0				0.64
37.417	0.00	0.05	0.121	0				0.64
37.500	0.00	0.05	0.121	0				0.63
37.583	0.00	0.05	0.121	0				0.63
37.667	0.00	0.05	0.120	0				0.63
37.750	0.00	0.05	0.120	0				0.63
37.833	0.00	0.05	0.120	0				0.63
37.917	0.00	0.05	0.119	0				0.63
38.000	0.00	0.05	0.119	0				0.62
38.083	0.00	0.05	0.119	0				0.62
38.167	0.00	0.05	0.118	0				0.62
38.250	0.00	0.05	0.118	0				0.62
38.333	0.00	0.05	0.118	0				0.62
38.417	0.00	0.05	0.117	0				0.62
38.500	0.00	0.05	0.117	0				0.61
38.583	0.00	0.04	0.117	0				0.61
38.667	0.00	0.04	0.116	0				0.61
38.750	0.00	0.04	0.116	0				0.61
38.833	0.00	0.04	0.116	0				0.61
38.917	0.00	0.04	0.115	0				0.61
39.000	0.00	0.04	0.115	0				0.61
39.083	0.00	0.04	0.115	0				0.60

39.167	0.00	0.04	0.115	0					0.60
39.250	0.00	0.04	0.114	0					0.60
39.333	0.00	0.04	0.114	0					0.60
39.417	0.00	0.04	0.114	0					0.60
39.500	0.00	0.04	0.113	0					0.60
39.583	0.00	0.04	0.113	0					0.60
39.667	0.00	0.04	0.113	0					0.60
39.750	0.00	0.04	0.113	0					0.59
39.833	0.00	0.04	0.112	0					0.59
39.917	0.00	0.04	0.112	0					0.59
40.000	0.00	0.04	0.112	0					0.59
40.083	0.00	0.04	0.112	0					0.59
40.167	0.00	0.03	0.111	0					0.59
40.250	0.00	0.03	0.111	0					0.59
40.333	0.00	0.03	0.111	0					0.59
40.417	0.00	0.03	0.111	0					0.59
40.500	0.00	0.03	0.110	0					0.58
40.583	0.00	0.03	0.110	0					0.58
40.667	0.00	0.03	0.110	0					0.58
40.750	0.00	0.03	0.110	0					0.58
40.833	0.00	0.03	0.110	0					0.58
40.917	0.00	0.03	0.109	0					0.58
41.000	0.00	0.03	0.109	0					0.58
41.083	0.00	0.03	0.109	0					0.58
41.167	0.00	0.03	0.109	0					0.58
41.250	0.00	0.03	0.109	0					0.57
41.333	0.00	0.03	0.108	0					0.57
41.417	0.00	0.03	0.108	0					0.57
41.500	0.00	0.03	0.108	0					0.57
41.583	0.00	0.03	0.108	0					0.57
41.667	0.00	0.03	0.108	0					0.57
41.750	0.00	0.03	0.107	0					0.57
41.833	0.00	0.03	0.107	0					0.57
41.917	0.00	0.03	0.107	0					0.57
42.000	0.00	0.03	0.107	0					0.57
42.083	0.00	0.03	0.107	0					0.57
42.167	0.00	0.03	0.106	0					0.56
42.250	0.00	0.03	0.106	0					0.56
42.333	0.00	0.02	0.106	0					0.56
42.417	0.00	0.02	0.106	0					0.56
42.500	0.00	0.02	0.106	0					0.56
42.583	0.00	0.02	0.106	0					0.56
42.667	0.00	0.02	0.105	0					0.56
42.750	0.00	0.02	0.105	0					0.56
42.833	0.00	0.02	0.105	0					0.56
42.917	0.00	0.02	0.105	0					0.56
43.000	0.00	0.02	0.105	0					0.56
43.083	0.00	0.02	0.105	0					0.56
43.167	0.00	0.02	0.105	0					0.56
43.250	0.00	0.02	0.104	0					0.55

43.333	0.00	0.02	0.104	0					0.55
43.417	0.00	0.02	0.104	0					0.55
43.500	0.00	0.02	0.104	0					0.55
43.583	0.00	0.02	0.104	0					0.55
43.667	0.00	0.02	0.104	0					0.55
43.750	0.00	0.02	0.104	0					0.55
43.833	0.00	0.02	0.103	0					0.55
43.917	0.00	0.02	0.103	0					0.55
44.000	0.00	0.02	0.103	0					0.55
44.083	0.00	0.02	0.103	0					0.55
44.167	0.00	0.02	0.103	0					0.55
44.250	0.00	0.02	0.103	0					0.55
44.333	0.00	0.02	0.103	0					0.55
44.417	0.00	0.02	0.102	0					0.55
44.500	0.00	0.02	0.102	0					0.55
44.583	0.00	0.02	0.102	0					0.54
44.667	0.00	0.02	0.102	0					0.54
44.750	0.00	0.02	0.102	0					0.54
44.833	0.00	0.02	0.102	0					0.54
44.917	0.00	0.02	0.102	0					0.54
45.000	0.00	0.02	0.102	0					0.54
45.083	0.00	0.02	0.102	0					0.54
45.167	0.00	0.02	0.101	0					0.54
45.250	0.00	0.02	0.101	0					0.54
45.333	0.00	0.02	0.101	0					0.54
45.417	0.00	0.02	0.101	0					0.54
45.500	0.00	0.02	0.101	0					0.54
45.583	0.00	0.01	0.101	0					0.54
45.667	0.00	0.01	0.101	0					0.54
45.750	0.00	0.01	0.101	0					0.54
45.833	0.00	0.01	0.101	0					0.54
45.917	0.00	0.01	0.101	0					0.54
46.000	0.00	0.01	0.100	0					0.54
46.083	0.00	0.01	0.100	0					0.54
46.167	0.00	0.01	0.100	0					0.53
46.250	0.00	0.01	0.100	0					0.53
46.333	0.00	0.01	0.100	0					0.53
46.417	0.00	0.01	0.100	0					0.53
46.500	0.00	0.01	0.100	0					0.53
46.583	0.00	0.01	0.100	0					0.53
46.667	0.00	0.01	0.100	0					0.53
46.750	0.00	0.01	0.100	0					0.53
46.833	0.00	0.01	0.100	0					0.53
46.917	0.00	0.01	0.099	0					0.53
47.000	0.00	0.01	0.099	0					0.53
47.083	0.00	0.01	0.099	0					0.53
47.167	0.00	0.01	0.099	0					0.53
47.250	0.00	0.01	0.099	0					0.53
47.333	0.00	0.01	0.099	0					0.53
47.417	0.00	0.01	0.099	0					0.53

47.500	0.00	0.01	0.099	0					0.53
47.583	0.00	0.01	0.099	0					0.53
47.667	0.00	0.01	0.099	0					0.53
47.750	0.00	0.01	0.099	0					0.53
47.833	0.00	0.01	0.099	0					0.53
47.917	0.00	0.01	0.099	0					0.53
48.000	0.00	0.01	0.098	0					0.53
48.083	0.00	0.01	0.098	0					0.53
48.167	0.00	0.01	0.098	0					0.53
48.250	0.00	0.01	0.098	0					0.53
48.333	0.00	0.01	0.098	0					0.52
48.417	0.00	0.01	0.098	0					0.52
48.500	0.00	0.01	0.098	0					0.52
48.583	0.00	0.01	0.098	0					0.52
48.667	0.00	0.01	0.098	0					0.52
48.750	0.00	0.01	0.098	0					0.52
48.833	0.00	0.01	0.098	0					0.52
48.917	0.00	0.01	0.098	0					0.52
49.000	0.00	0.01	0.098	0					0.52
49.083	0.00	0.01	0.098	0					0.52
49.167	0.00	0.01	0.098	0					0.52
49.250	0.00	0.01	0.097	0					0.52
49.333	0.00	0.01	0.097	0					0.52
49.417	0.00	0.01	0.097	0					0.52
49.500	0.00	0.01	0.097	0					0.52
49.583	0.00	0.01	0.097	0					0.52
49.667	0.00	0.01	0.097	0					0.52
49.750	0.00	0.01	0.097	0					0.52
49.833	0.00	0.01	0.097	0					0.52
49.917	0.00	0.01	0.097	0					0.52
50.000	0.00	0.01	0.097	0					0.52
50.083	0.00	0.01	0.097	0					0.52
50.167	0.00	0.01	0.097	0					0.52
50.250	0.00	0.01	0.097	0					0.52
50.333	0.00	0.01	0.097	0					0.52
50.417	0.00	0.01	0.097	0					0.52
50.500	0.00	0.01	0.097	0					0.52
50.583	0.00	0.01	0.097	0					0.52
50.667	0.00	0.01	0.097	0					0.52
50.750	0.00	0.01	0.097	0					0.52
50.833	0.00	0.01	0.096	0					0.52
50.917	0.00	0.01	0.096	0					0.52
51.000	0.00	0.01	0.096	0					0.52
51.083	0.00	0.01	0.096	0					0.52
51.167	0.00	0.01	0.096	0					0.52
51.250	0.00	0.01	0.096	0					0.52
51.333	0.00	0.01	0.096	0					0.52
51.417	0.00	0.01	0.096	0					0.52
51.500	0.00	0.01	0.096	0					0.52
51.583	0.00	0.01	0.096	0					0.51

51.667	0.00	0.01	0.096	0					0.51
51.750	0.00	0.01	0.096	0					0.51
51.833	0.00	0.01	0.096	0					0.51
51.917	0.00	0.01	0.096	0					0.51
52.000	0.00	0.01	0.096	0					0.51
52.083	0.00	0.01	0.096	0					0.51
52.167	0.00	0.01	0.096	0					0.51
52.250	0.00	0.01	0.096	0					0.51
52.333	0.00	0.01	0.096	0					0.51
52.417	0.00	0.01	0.096	0					0.51
52.500	0.00	0.01	0.096	0					0.51
52.583	0.00	0.01	0.096	0					0.51
52.667	0.00	0.00	0.096	0					0.51
52.750	0.00	0.00	0.096	0					0.51
52.833	0.00	0.00	0.096	0					0.51
52.917	0.00	0.00	0.096	0					0.51
53.000	0.00	0.00	0.095	0					0.51
53.083	0.00	0.00	0.095	0					0.51
53.167	0.00	0.00	0.095	0					0.51
53.250	0.00	0.00	0.095	0					0.51
53.333	0.00	0.00	0.095	0					0.51
53.417	0.00	0.00	0.095	0					0.51
53.500	0.00	0.00	0.095	0					0.51
53.583	0.00	0.00	0.095	0					0.51
53.667	0.00	0.00	0.095	0					0.51
53.750	0.00	0.00	0.095	0					0.51
53.833	0.00	0.00	0.095	0					0.51
53.917	0.00	0.00	0.095	0					0.51
54.000	0.00	0.00	0.095	0					0.51
54.083	0.00	0.00	0.095	0					0.51
54.167	0.00	0.00	0.095	0					0.51
54.250	0.00	0.00	0.095	0					0.51
54.333	0.00	0.00	0.095	0					0.51
54.417	0.00	0.00	0.095	0					0.51
54.500	0.00	0.00	0.095	0					0.51
54.583	0.00	0.00	0.095	0					0.51
54.667	0.00	0.00	0.095	0					0.51
54.750	0.00	0.00	0.095	0					0.51
54.833	0.00	0.00	0.095	0					0.51
54.917	0.00	0.00	0.095	0					0.51
55.000	0.00	0.00	0.095	0					0.51
55.083	0.00	0.00	0.095	0					0.51
55.167	0.00	0.00	0.095	0					0.51
55.250	0.00	0.00	0.095	0					0.51
55.333	0.00	0.00	0.095	0					0.51
55.417	0.00	0.00	0.095	0					0.51
55.500	0.00	0.00	0.095	0					0.51
55.583	0.00	0.00	0.095	0					0.51
55.667	0.00	0.00	0.095	0					0.51
55.750	0.00	0.00	0.095	0					0.51

55.833	0.00	0.00	0.095	0					0.51
55.917	0.00	0.00	0.095	0					0.51
56.000	0.00	0.00	0.095	0					0.51
56.083	0.00	0.00	0.095	0					0.51
56.167	0.00	0.00	0.095	0					0.51
56.250	0.00	0.00	0.094	0					0.51
56.333	0.00	0.00	0.094	0					0.51
56.417	0.00	0.00	0.094	0					0.51
56.500	0.00	0.00	0.094	0					0.51
56.583	0.00	0.00	0.094	0					0.51
56.667	0.00	0.00	0.094	0					0.51
56.750	0.00	0.00	0.094	0					0.51
56.833	0.00	0.00	0.094	0					0.51
56.917	0.00	0.00	0.094	0					0.51
57.000	0.00	0.00	0.094	0					0.51
57.083	0.00	0.00	0.094	0					0.51
57.167	0.00	0.00	0.094	0					0.51
57.250	0.00	0.00	0.094	0					0.51
57.333	0.00	0.00	0.094	0					0.51
57.417	0.00	0.00	0.094	0					0.51
57.500	0.00	0.00	0.094	0					0.51
57.583	0.00	0.00	0.094	0					0.51
57.667	0.00	0.00	0.094	0					0.51
57.750	0.00	0.00	0.094	0					0.51
57.833	0.00	0.00	0.094	0					0.51
57.917	0.00	0.00	0.094	0					0.51
58.000	0.00	0.00	0.094	0					0.51
58.083	0.00	0.00	0.094	0					0.51
58.167	0.00	0.00	0.094	0					0.51
58.250	0.00	0.00	0.094	0					0.51
58.333	0.00	0.00	0.094	0					0.51
58.417	0.00	0.00	0.094	0					0.51
58.500	0.00	0.00	0.094	0					0.51
58.583	0.00	0.00	0.094	0					0.51
58.667	0.00	0.00	0.094	0					0.50
58.750	0.00	0.00	0.094	0					0.50
58.833	0.00	0.00	0.094	0					0.50
58.917	0.00	0.00	0.094	0					0.50
59.000	0.00	0.00	0.094	0					0.50
59.083	0.00	0.00	0.094	0					0.50
59.167	0.00	0.00	0.094	0					0.50
59.250	0.00	0.00	0.094	0					0.50
59.333	0.00	0.00	0.094	0					0.50
59.417	0.00	0.00	0.094	0					0.50
59.500	0.00	0.00	0.094	0					0.50
59.583	0.00	0.00	0.094	0					0.50
59.667	0.00	0.00	0.094	0					0.50
59.750	0.00	0.00	0.094	0					0.50
59.833	0.00	0.00	0.094	0					0.50
59.917	0.00	0.00	0.094	0					0.50

60.000	0.00	0.00	0.094	0					0.50
60.083	0.00	0.00	0.094	0					0.50
60.167	0.00	0.00	0.094	0					0.50
60.250	0.00	0.00	0.094	0					0.50
60.333	0.00	0.00	0.094	0					0.50
60.417	0.00	0.00	0.094	0					0.50
60.500	0.00	0.00	0.094	0					0.50
60.583	0.00	0.00	0.094	0					0.50
60.667	0.00	0.00	0.094	0					0.50
60.750	0.00	0.00	0.094	0					0.50
60.833	0.00	0.00	0.094	0					0.50
60.917	0.00	0.00	0.094	0					0.50
61.000	0.00	0.00	0.094	0					0.50
61.083	0.00	0.00	0.094	0					0.50
61.167	0.00	0.00	0.094	0					0.50
61.250	0.00	0.00	0.094	0					0.50
61.333	0.00	0.00	0.094	0					0.50
61.417	0.00	0.00	0.094	0					0.50
61.500	0.00	0.00	0.094	0					0.50
61.583	0.00	0.00	0.094	0					0.50
61.667	0.00	0.00	0.094	0					0.50
61.750	0.00	0.00	0.094	0					0.50
61.833	0.00	0.00	0.094	0					0.50
61.917	0.00	0.00	0.094	0					0.50
62.000	0.00	0.00	0.094	0					0.50
62.083	0.00	0.00	0.094	0					0.50
62.167	0.00	0.00	0.094	0					0.50
62.250	0.00	0.00	0.094	0					0.50
62.333	0.00	0.00	0.094	0					0.50
62.417	0.00	0.00	0.094	0					0.50
62.500	0.00	0.00	0.094	0					0.50
62.583	0.00	0.00	0.094	0					0.50
62.667	0.00	0.00	0.094	0					0.50
62.750	0.00	0.00	0.094	0					0.50
62.833	0.00	0.00	0.094	0					0.50
62.917	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 755
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.196 (CFS)
Total volume = 0.568 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 100YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH3100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 39
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 11.594 (CFS)
Total volume = 0.998 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 39

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	2.9	5.80	8.70	11.59	Depth (Ft.)
0.083	0.89	0.00	0.003	0	I				0.02
0.167	1.58	0.00	0.012	0	I				0.06
0.250	1.54	0.00	0.022	0	I				0.12
0.333	1.77	0.00	0.034	0	I				0.18
0.417	1.99	0.00	0.047	0	I				0.25
0.500	2.27	0.00	0.061	0	I				0.33
0.583	2.23	0.00	0.077	0	I				0.41
0.667	2.31	0.00	0.092	0	I				0.50
0.750	2.47	0.03	0.109	0	I				0.58
0.833	2.26	0.06	0.125	0	I				0.65
0.917	2.16	0.09	0.139	0	I				0.72
1.000	2.35	0.12	0.154	0	I				0.79
1.083	2.79	0.15	0.171	0	I				0.88
1.167	3.07	0.18	0.190	0	I				0.97
1.250	3.11	0.20	0.210	0	I				1.06
1.333	2.97	0.20	0.230	0	I				1.14
1.417	3.32	0.20	0.250	0	I				1.23
1.500	3.75	0.20	0.273	0	I				1.33
1.583	3.63	0.20	0.297	0	I				1.43

5.833	0.00	0.20	0.867	0					3.41
5.917	0.00	0.20	0.866	0					3.41
6.000	0.00	0.20	0.865	0					3.40
6.083	0.00	0.20	0.863	0					3.40
6.167	0.00	0.20	0.862	0					3.39
6.250	0.00	0.20	0.861	0					3.39
6.333	0.00	0.20	0.859	0					3.39
6.417	0.00	0.20	0.858	0					3.38
6.500	0.00	0.20	0.857	0					3.38
6.583	0.00	0.20	0.855	0					3.37
6.667	0.00	0.20	0.854	0					3.37
6.750	0.00	0.20	0.852	0					3.37
6.833	0.00	0.20	0.851	0					3.36
6.917	0.00	0.20	0.850	0					3.36
7.000	0.00	0.20	0.848	0					3.35
7.083	0.00	0.20	0.847	0					3.35
7.167	0.00	0.20	0.846	0					3.34
7.250	0.00	0.20	0.844	0					3.34
7.333	0.00	0.20	0.843	0					3.34
7.417	0.00	0.20	0.842	0					3.33
7.500	0.00	0.20	0.840	0					3.33
7.583	0.00	0.20	0.839	0					3.32
7.667	0.00	0.20	0.838	0					3.32
7.750	0.00	0.20	0.836	0					3.32
7.833	0.00	0.20	0.835	0					3.31
7.917	0.00	0.20	0.834	0					3.31
8.000	0.00	0.20	0.832	0					3.30
8.083	0.00	0.20	0.831	0					3.30
8.167	0.00	0.20	0.829	0					3.30
8.250	0.00	0.20	0.828	0					3.29
8.333	0.00	0.20	0.827	0					3.29
8.417	0.00	0.20	0.825	0					3.28
8.500	0.00	0.20	0.824	0					3.28
8.583	0.00	0.20	0.823	0					3.27
8.667	0.00	0.20	0.821	0					3.27
8.750	0.00	0.20	0.820	0					3.27
8.833	0.00	0.20	0.819	0					3.26
8.917	0.00	0.20	0.817	0					3.26
9.000	0.00	0.20	0.816	0					3.25
9.083	0.00	0.20	0.815	0					3.25
9.167	0.00	0.20	0.813	0					3.25
9.250	0.00	0.20	0.812	0					3.24
9.333	0.00	0.20	0.811	0					3.24
9.417	0.00	0.20	0.809	0					3.23
9.500	0.00	0.20	0.808	0					3.23
9.583	0.00	0.20	0.806	0					3.23
9.667	0.00	0.20	0.805	0					3.22
9.750	0.00	0.20	0.804	0					3.22
9.833	0.00	0.20	0.802	0					3.21
9.917	0.00	0.20	0.801	0					3.21

10.000	0.00	0.20	0.800	0					3.21
10.083	0.00	0.20	0.798	0					3.20
10.167	0.00	0.20	0.797	0					3.20
10.250	0.00	0.20	0.796	0					3.19
10.333	0.00	0.20	0.794	0					3.19
10.417	0.00	0.20	0.793	0					3.18
10.500	0.00	0.20	0.792	0					3.18
10.583	0.00	0.20	0.790	0					3.18
10.667	0.00	0.20	0.789	0					3.17
10.750	0.00	0.20	0.788	0					3.17
10.833	0.00	0.20	0.786	0					3.16
10.917	0.00	0.20	0.785	0					3.16
11.000	0.00	0.20	0.783	0					3.16
11.083	0.00	0.20	0.782	0					3.15
11.167	0.00	0.20	0.781	0					3.15
11.250	0.00	0.20	0.779	0					3.14
11.333	0.00	0.20	0.778	0					3.14
11.417	0.00	0.20	0.777	0					3.14
11.500	0.00	0.20	0.775	0					3.13
11.583	0.00	0.20	0.774	0					3.13
11.667	0.00	0.20	0.773	0					3.12
11.750	0.00	0.20	0.771	0					3.12
11.833	0.00	0.20	0.770	0					3.12
11.917	0.00	0.20	0.769	0					3.11
12.000	0.00	0.20	0.767	0					3.11
12.083	0.00	0.20	0.766	0					3.10
12.167	0.00	0.20	0.765	0					3.10
12.250	0.00	0.20	0.763	0					3.09
12.333	0.00	0.20	0.762	0					3.09
12.417	0.00	0.20	0.761	0					3.09
12.500	0.00	0.20	0.759	0					3.08
12.583	0.00	0.20	0.758	0					3.08
12.667	0.00	0.20	0.756	0					3.07
12.750	0.00	0.20	0.755	0					3.07
12.833	0.00	0.20	0.754	0					3.07
12.917	0.00	0.20	0.752	0					3.06
13.000	0.00	0.20	0.751	0					3.06
13.083	0.00	0.20	0.750	0					3.05
13.167	0.00	0.20	0.748	0					3.05
13.250	0.00	0.20	0.747	0					3.05
13.333	0.00	0.20	0.746	0					3.04
13.417	0.00	0.20	0.744	0					3.04
13.500	0.00	0.20	0.743	0					3.03
13.583	0.00	0.20	0.742	0					3.03
13.667	0.00	0.20	0.740	0					3.02
13.750	0.00	0.20	0.739	0					3.02
13.833	0.00	0.20	0.738	0					3.02
13.917	0.00	0.20	0.736	0					3.01
14.000	0.00	0.20	0.735	0					3.01
14.083	0.00	0.20	0.733	0					3.00

14.167	0.00	0.20	0.732	0					3.00
14.250	0.00	0.20	0.731	0					3.00
14.333	0.00	0.20	0.729	0					2.99
14.417	0.00	0.20	0.728	0					2.99
14.500	0.00	0.20	0.727	0					2.98
14.583	0.00	0.20	0.725	0					2.98
14.667	0.00	0.20	0.724	0					2.97
14.750	0.00	0.20	0.723	0					2.97
14.833	0.00	0.20	0.721	0					2.96
14.917	0.00	0.20	0.720	0					2.96
15.000	0.00	0.20	0.719	0					2.96
15.083	0.00	0.20	0.717	0					2.95
15.167	0.00	0.20	0.716	0					2.95
15.250	0.00	0.20	0.715	0					2.94
15.333	0.00	0.20	0.713	0					2.94
15.417	0.00	0.20	0.712	0					2.93
15.500	0.00	0.20	0.710	0					2.93
15.583	0.00	0.20	0.709	0					2.92
15.667	0.00	0.20	0.708	0					2.92
15.750	0.00	0.20	0.706	0					2.92
15.833	0.00	0.20	0.705	0					2.91
15.917	0.00	0.20	0.704	0					2.91
16.000	0.00	0.20	0.702	0					2.90
16.083	0.00	0.20	0.701	0					2.90
16.167	0.00	0.20	0.700	0					2.89
16.250	0.00	0.20	0.698	0					2.89
16.333	0.00	0.20	0.697	0					2.88
16.417	0.00	0.20	0.696	0					2.88
16.500	0.00	0.20	0.694	0					2.88
16.583	0.00	0.20	0.693	0					2.87
16.667	0.00	0.20	0.692	0					2.87
16.750	0.00	0.20	0.690	0					2.86
16.833	0.00	0.20	0.689	0					2.86
16.917	0.00	0.20	0.687	0					2.85
17.000	0.00	0.20	0.686	0					2.85
17.083	0.00	0.20	0.685	0					2.84
17.167	0.00	0.20	0.683	0					2.84
17.250	0.00	0.20	0.682	0					2.84
17.333	0.00	0.20	0.681	0					2.83
17.417	0.00	0.20	0.679	0					2.83
17.500	0.00	0.20	0.678	0					2.82
17.583	0.00	0.20	0.677	0					2.82
17.667	0.00	0.20	0.675	0					2.81
17.750	0.00	0.20	0.674	0					2.81
17.833	0.00	0.20	0.673	0					2.80
17.917	0.00	0.20	0.671	0					2.80
18.000	0.00	0.20	0.670	0					2.80
18.083	0.00	0.20	0.669	0					2.79
18.167	0.00	0.20	0.667	0					2.79
18.250	0.00	0.20	0.666	0					2.78

18.333	0.00	0.20	0.664	0					2.78
18.417	0.00	0.20	0.663	0					2.77
18.500	0.00	0.20	0.662	0					2.77
18.583	0.00	0.20	0.660	0					2.76
18.667	0.00	0.20	0.659	0					2.76
18.750	0.00	0.20	0.658	0					2.76
18.833	0.00	0.20	0.656	0					2.75
18.917	0.00	0.20	0.655	0					2.75
19.000	0.00	0.20	0.654	0					2.74
19.083	0.00	0.20	0.652	0					2.74
19.167	0.00	0.20	0.651	0					2.73
19.250	0.00	0.20	0.650	0					2.73
19.333	0.00	0.20	0.648	0					2.72
19.417	0.00	0.20	0.647	0					2.72
19.500	0.00	0.20	0.646	0					2.72
19.583	0.00	0.20	0.644	0					2.71
19.667	0.00	0.20	0.643	0					2.71
19.750	0.00	0.20	0.642	0					2.70
19.833	0.00	0.20	0.640	0					2.70
19.917	0.00	0.20	0.639	0					2.69
20.000	0.00	0.20	0.637	0					2.69
20.083	0.00	0.20	0.636	0					2.68
20.167	0.00	0.20	0.635	0					2.68
20.250	0.00	0.20	0.633	0					2.68
20.333	0.00	0.20	0.632	0					2.67
20.417	0.00	0.20	0.631	0					2.67
20.500	0.00	0.20	0.629	0					2.66
20.583	0.00	0.20	0.628	0					2.66
20.667	0.00	0.20	0.627	0					2.65
20.750	0.00	0.20	0.625	0					2.65
20.833	0.00	0.20	0.624	0					2.64
20.917	0.00	0.20	0.623	0					2.64
21.000	0.00	0.20	0.621	0					2.64
21.083	0.00	0.20	0.620	0					2.63
21.167	0.00	0.20	0.619	0					2.63
21.250	0.00	0.20	0.617	0					2.62
21.333	0.00	0.20	0.616	0					2.62
21.417	0.00	0.20	0.614	0					2.61
21.500	0.00	0.20	0.613	0					2.61
21.583	0.00	0.20	0.612	0					2.60
21.667	0.00	0.20	0.610	0					2.60
21.750	0.00	0.20	0.609	0					2.60
21.833	0.00	0.20	0.608	0					2.59
21.917	0.00	0.20	0.606	0					2.59
22.000	0.00	0.20	0.605	0					2.58
22.083	0.00	0.20	0.604	0					2.58
22.167	0.00	0.20	0.602	0					2.57
22.250	0.00	0.20	0.601	0					2.57
22.333	0.00	0.20	0.600	0					2.56
22.417	0.00	0.20	0.598	0					2.56

22.500	0.00	0.20	0.597	0					2.56
22.583	0.00	0.20	0.596	0					2.55
22.667	0.00	0.20	0.594	0					2.55
22.750	0.00	0.20	0.593	0					2.54
22.833	0.00	0.20	0.591	0					2.54
22.917	0.00	0.20	0.590	0					2.53
23.000	0.00	0.20	0.589	0					2.53
23.083	0.00	0.20	0.587	0					2.52
23.167	0.00	0.20	0.586	0					2.52
23.250	0.00	0.20	0.585	0					2.52
23.333	0.00	0.20	0.583	0					2.51
23.417	0.00	0.20	0.582	0					2.51
23.500	0.00	0.20	0.581	0					2.50
23.583	0.00	0.20	0.579	0					2.50
23.667	0.00	0.20	0.578	0					2.49
23.750	0.00	0.20	0.577	0					2.49
23.833	0.00	0.20	0.575	0					2.48
23.917	0.00	0.20	0.574	0					2.48
24.000	0.00	0.20	0.573	0					2.47
24.083	0.00	0.20	0.571	0					2.47
24.167	0.00	0.20	0.570	0					2.46
24.250	0.00	0.20	0.568	0					2.46
24.333	0.00	0.20	0.567	0					2.45
24.417	0.00	0.20	0.566	0					2.45
24.500	0.00	0.20	0.564	0					2.44
24.583	0.00	0.20	0.563	0					2.44
24.667	0.00	0.20	0.562	0					2.43
24.750	0.00	0.20	0.560	0					2.43
24.833	0.00	0.20	0.559	0					2.43
24.917	0.00	0.20	0.558	0					2.42
25.000	0.00	0.20	0.556	0					2.42
25.083	0.00	0.20	0.555	0					2.41
25.167	0.00	0.20	0.554	0					2.41
25.250	0.00	0.20	0.552	0					2.40
25.333	0.00	0.20	0.551	0					2.40
25.417	0.00	0.20	0.550	0					2.39
25.500	0.00	0.20	0.548	0					2.39
25.583	0.00	0.20	0.547	0					2.38
25.667	0.00	0.20	0.545	0					2.38
25.750	0.00	0.20	0.544	0					2.37
25.833	0.00	0.20	0.543	0					2.37
25.917	0.00	0.20	0.541	0					2.36
26.000	0.00	0.20	0.540	0					2.36
26.083	0.00	0.20	0.539	0					2.35
26.167	0.00	0.20	0.537	0					2.35
26.250	0.00	0.20	0.536	0					2.34
26.333	0.00	0.20	0.535	0					2.34
26.417	0.00	0.20	0.533	0					2.33
26.500	0.00	0.20	0.532	0					2.33
26.583	0.00	0.20	0.531	0					2.32

26.667	0.00	0.20	0.529	0					2.32
26.750	0.00	0.20	0.528	0					2.31
26.833	0.00	0.20	0.527	0					2.31
26.917	0.00	0.20	0.525	0					2.30
27.000	0.00	0.20	0.524	0					2.30
27.083	0.00	0.20	0.523	0					2.29
27.167	0.00	0.20	0.521	0					2.29
27.250	0.00	0.20	0.520	0					2.28
27.333	0.00	0.20	0.518	0					2.28
27.417	0.00	0.20	0.517	0					2.28
27.500	0.00	0.20	0.516	0					2.27
27.583	0.00	0.20	0.514	0					2.27
27.667	0.00	0.20	0.513	0					2.26
27.750	0.00	0.20	0.512	0					2.26
27.833	0.00	0.20	0.510	0					2.25
27.917	0.00	0.20	0.509	0					2.25
28.000	0.00	0.20	0.508	0					2.24
28.083	0.00	0.20	0.506	0					2.24
28.167	0.00	0.20	0.505	0					2.23
28.250	0.00	0.20	0.504	0					2.23
28.333	0.00	0.20	0.502	0					2.22
28.417	0.00	0.20	0.501	0					2.22
28.500	0.00	0.20	0.500	0					2.21
28.583	0.00	0.20	0.498	0					2.21
28.667	0.00	0.20	0.497	0					2.20
28.750	0.00	0.20	0.495	0					2.20
28.833	0.00	0.20	0.494	0					2.19
28.917	0.00	0.20	0.493	0					2.19
29.000	0.00	0.20	0.491	0					2.18
29.083	0.00	0.20	0.490	0					2.18
29.167	0.00	0.20	0.489	0					2.17
29.250	0.00	0.20	0.487	0					2.17
29.333	0.00	0.20	0.486	0					2.16
29.417	0.00	0.20	0.485	0					2.16
29.500	0.00	0.20	0.483	0					2.15
29.583	0.00	0.20	0.482	0					2.15
29.667	0.00	0.20	0.481	0					2.14
29.750	0.00	0.20	0.479	0					2.14
29.833	0.00	0.20	0.478	0					2.14
29.917	0.00	0.20	0.477	0					2.13
30.000	0.00	0.20	0.475	0					2.13
30.083	0.00	0.20	0.474	0					2.12
30.167	0.00	0.20	0.472	0					2.12
30.250	0.00	0.20	0.471	0					2.11
30.333	0.00	0.20	0.470	0					2.11
30.417	0.00	0.20	0.468	0					2.10
30.500	0.00	0.20	0.467	0					2.10
30.583	0.00	0.20	0.466	0					2.09
30.667	0.00	0.20	0.464	0					2.09
30.750	0.00	0.20	0.463	0					2.08

30.833	0.00	0.20	0.462	0					2.08
30.917	0.00	0.20	0.460	0					2.07
31.000	0.00	0.20	0.459	0					2.07
31.083	0.00	0.20	0.458	0					2.06
31.167	0.00	0.20	0.456	0					2.06
31.250	0.00	0.20	0.455	0					2.05
31.333	0.00	0.20	0.454	0					2.05
31.417	0.00	0.20	0.452	0					2.04
31.500	0.00	0.20	0.451	0					2.04
31.583	0.00	0.20	0.449	0					2.03
31.667	0.00	0.20	0.448	0					2.03
31.750	0.00	0.20	0.447	0					2.02
31.833	0.00	0.20	0.445	0					2.02
31.917	0.00	0.20	0.444	0					2.01
32.000	0.00	0.20	0.443	0					2.01
32.083	0.00	0.20	0.441	0					2.00
32.167	0.00	0.20	0.440	0					2.00
32.250	0.00	0.20	0.439	0					1.99
32.333	0.00	0.20	0.437	0					1.99
32.417	0.00	0.20	0.436	0					1.98
32.500	0.00	0.20	0.435	0					1.98
32.583	0.00	0.20	0.433	0					1.97
32.667	0.00	0.20	0.432	0					1.97
32.750	0.00	0.20	0.431	0					1.96
32.833	0.00	0.20	0.429	0					1.96
32.917	0.00	0.20	0.428	0					1.95
33.000	0.00	0.20	0.426	0					1.95
33.083	0.00	0.20	0.425	0					1.94
33.167	0.00	0.20	0.424	0					1.94
33.250	0.00	0.20	0.422	0					1.93
33.333	0.00	0.20	0.421	0					1.93
33.417	0.00	0.20	0.420	0					1.92
33.500	0.00	0.20	0.418	0					1.91
33.583	0.00	0.20	0.417	0					1.91
33.667	0.00	0.20	0.416	0					1.90
33.750	0.00	0.20	0.414	0					1.90
33.833	0.00	0.20	0.413	0					1.89
33.917	0.00	0.20	0.412	0					1.89
34.000	0.00	0.20	0.410	0					1.88
34.083	0.00	0.20	0.409	0					1.88
34.167	0.00	0.20	0.408	0					1.87
34.250	0.00	0.20	0.406	0					1.87
34.333	0.00	0.20	0.405	0					1.86
34.417	0.00	0.20	0.404	0					1.86
34.500	0.00	0.20	0.402	0					1.85
34.583	0.00	0.20	0.401	0					1.85
34.667	0.00	0.20	0.399	0					1.84
34.750	0.00	0.20	0.398	0					1.84
34.833	0.00	0.20	0.397	0					1.83
34.917	0.00	0.20	0.395	0					1.82

35.000	0.00	0.20	0.394	0					1.82
35.083	0.00	0.20	0.393	0					1.81
35.167	0.00	0.20	0.391	0					1.81
35.250	0.00	0.20	0.390	0					1.80
35.333	0.00	0.20	0.389	0					1.80
35.417	0.00	0.20	0.387	0					1.79
35.500	0.00	0.20	0.386	0					1.79
35.583	0.00	0.20	0.385	0					1.78
35.667	0.00	0.20	0.383	0					1.78
35.750	0.00	0.20	0.382	0					1.77
35.833	0.00	0.20	0.381	0					1.77
35.917	0.00	0.20	0.379	0					1.76
36.000	0.00	0.20	0.378	0					1.76
36.083	0.00	0.20	0.376	0					1.75
36.167	0.00	0.20	0.375	0					1.74
36.250	0.00	0.20	0.374	0					1.74
36.333	0.00	0.20	0.372	0					1.73
36.417	0.00	0.20	0.371	0					1.73
36.500	0.00	0.20	0.370	0					1.72
36.583	0.00	0.20	0.368	0					1.72
36.667	0.00	0.20	0.367	0					1.71
36.750	0.00	0.20	0.366	0					1.71
36.833	0.00	0.20	0.364	0					1.70
36.917	0.00	0.20	0.363	0					1.70
37.000	0.00	0.20	0.362	0					1.69
37.083	0.00	0.20	0.360	0					1.69
37.167	0.00	0.20	0.359	0					1.68
37.250	0.00	0.20	0.358	0					1.68
37.333	0.00	0.20	0.356	0					1.67
37.417	0.00	0.20	0.355	0					1.66
37.500	0.00	0.20	0.353	0					1.66
37.583	0.00	0.20	0.352	0					1.65
37.667	0.00	0.20	0.351	0					1.65
37.750	0.00	0.20	0.349	0					1.64
37.833	0.00	0.20	0.348	0					1.64
37.917	0.00	0.20	0.347	0					1.63
38.000	0.00	0.20	0.345	0					1.63
38.083	0.00	0.20	0.344	0					1.62
38.167	0.00	0.20	0.343	0					1.62
38.250	0.00	0.20	0.341	0					1.61
38.333	0.00	0.20	0.340	0					1.61
38.417	0.00	0.20	0.339	0					1.60
38.500	0.00	0.20	0.337	0					1.60
38.583	0.00	0.20	0.336	0					1.59
38.667	0.00	0.20	0.335	0					1.58
38.750	0.00	0.20	0.333	0					1.58
38.833	0.00	0.20	0.332	0					1.57
38.917	0.00	0.20	0.330	0					1.57
39.000	0.00	0.20	0.329	0					1.56
39.083	0.00	0.20	0.328	0					1.56

39.167	0.00	0.20	0.326	0					1.55
39.250	0.00	0.20	0.325	0					1.55
39.333	0.00	0.20	0.324	0					1.54
39.417	0.00	0.20	0.322	0					1.54
39.500	0.00	0.20	0.321	0					1.53
39.583	0.00	0.20	0.320	0					1.53
39.667	0.00	0.20	0.318	0					1.52
39.750	0.00	0.20	0.317	0					1.52
39.833	0.00	0.20	0.316	0					1.51
39.917	0.00	0.20	0.314	0					1.50
40.000	0.00	0.20	0.313	0					1.50
40.083	0.00	0.20	0.312	0					1.49
40.167	0.00	0.20	0.310	0					1.49
40.250	0.00	0.20	0.309	0					1.48
40.333	0.00	0.20	0.307	0					1.48
40.417	0.00	0.20	0.306	0					1.47
40.500	0.00	0.20	0.305	0					1.46
40.583	0.00	0.20	0.303	0					1.46
40.667	0.00	0.20	0.302	0					1.45
40.750	0.00	0.20	0.301	0					1.45
40.833	0.00	0.20	0.299	0					1.44
40.917	0.00	0.20	0.298	0					1.44
41.000	0.00	0.20	0.297	0					1.43
41.083	0.00	0.20	0.295	0					1.42
41.167	0.00	0.20	0.294	0					1.42
41.250	0.00	0.20	0.293	0					1.41
41.333	0.00	0.20	0.291	0					1.41
41.417	0.00	0.20	0.290	0					1.40
41.500	0.00	0.20	0.289	0					1.39
41.583	0.00	0.20	0.287	0					1.39
41.667	0.00	0.20	0.286	0					1.38
41.750	0.00	0.20	0.285	0					1.38
41.833	0.00	0.20	0.283	0					1.37
41.917	0.00	0.20	0.282	0					1.37
42.000	0.00	0.20	0.280	0					1.36
42.083	0.00	0.20	0.279	0					1.35
42.167	0.00	0.20	0.278	0					1.35
42.250	0.00	0.20	0.276	0					1.34
42.333	0.00	0.20	0.275	0					1.34
42.417	0.00	0.20	0.274	0					1.33
42.500	0.00	0.20	0.272	0					1.32
42.583	0.00	0.20	0.271	0					1.32
42.667	0.00	0.20	0.270	0					1.31
42.750	0.00	0.20	0.268	0					1.31
42.833	0.00	0.20	0.267	0					1.30
42.917	0.00	0.20	0.266	0					1.30
43.000	0.00	0.20	0.264	0					1.29
43.083	0.00	0.20	0.263	0					1.28
43.167	0.00	0.20	0.262	0					1.28
43.250	0.00	0.20	0.260	0					1.27

43.333	0.00	0.20	0.259	0					1.27
43.417	0.00	0.20	0.257	0					1.26
43.500	0.00	0.20	0.256	0					1.25
43.583	0.00	0.20	0.255	0					1.25
43.667	0.00	0.20	0.253	0					1.24
43.750	0.00	0.20	0.252	0					1.24
43.833	0.00	0.20	0.251	0					1.23
43.917	0.00	0.20	0.249	0					1.23
44.000	0.00	0.20	0.248	0					1.22
44.083	0.00	0.20	0.247	0					1.21
44.167	0.00	0.20	0.245	0					1.21
44.250	0.00	0.20	0.244	0					1.20
44.333	0.00	0.20	0.243	0					1.20
44.417	0.00	0.20	0.241	0					1.19
44.500	0.00	0.20	0.240	0					1.18
44.583	0.00	0.20	0.239	0					1.18
44.667	0.00	0.20	0.237	0					1.17
44.750	0.00	0.20	0.236	0					1.17
44.833	0.00	0.20	0.234	0					1.16
44.917	0.00	0.20	0.233	0					1.16
45.000	0.00	0.20	0.232	0					1.15
45.083	0.00	0.20	0.230	0					1.14
45.167	0.00	0.20	0.229	0					1.14
45.250	0.00	0.20	0.228	0					1.13
45.333	0.00	0.20	0.226	0					1.13
45.417	0.00	0.20	0.225	0					1.12
45.500	0.00	0.20	0.224	0					1.11
45.583	0.00	0.20	0.222	0					1.11
45.667	0.00	0.20	0.221	0					1.10
45.750	0.00	0.20	0.220	0					1.10
45.833	0.00	0.20	0.218	0					1.09
45.917	0.00	0.20	0.217	0					1.09
46.000	0.00	0.20	0.216	0					1.08
46.083	0.00	0.20	0.214	0					1.07
46.167	0.00	0.20	0.213	0					1.07
46.250	0.00	0.20	0.211	0					1.06
46.333	0.00	0.20	0.210	0					1.06
46.417	0.00	0.20	0.209	0					1.05
46.500	0.00	0.20	0.207	0					1.04
46.583	0.00	0.20	0.206	0					1.04
46.667	0.00	0.20	0.205	0					1.03
46.750	0.00	0.20	0.203	0					1.03
46.833	0.00	0.20	0.202	0					1.02
46.917	0.00	0.20	0.201	0					1.02
47.000	0.00	0.20	0.199	0					1.01
47.083	0.00	0.20	0.198	0					1.00
47.167	0.00	0.20	0.197	0					1.00
47.250	0.00	0.19	0.195	0					0.99
47.333	0.00	0.19	0.194	0					0.99
47.417	0.00	0.19	0.193	0					0.98

47.500	0.00	0.19	0.191	0				0.97
47.583	0.00	0.18	0.190	0				0.97
47.667	0.00	0.18	0.189	0				0.96
47.750	0.00	0.18	0.188	0				0.95
47.833	0.00	0.18	0.186	0				0.95
47.917	0.00	0.17	0.185	0				0.94
48.000	0.00	0.17	0.184	0				0.94
48.083	0.00	0.17	0.183	0				0.93
48.167	0.00	0.17	0.182	0				0.93
48.250	0.00	0.17	0.180	0				0.92
48.333	0.00	0.16	0.179	0				0.92
48.417	0.00	0.16	0.178	0				0.91
48.500	0.00	0.16	0.177	0				0.90
48.583	0.00	0.16	0.176	0				0.90
48.667	0.00	0.15	0.175	0				0.89
48.750	0.00	0.15	0.174	0				0.89
48.833	0.00	0.15	0.173	0				0.88
48.917	0.00	0.15	0.172	0				0.88
49.000	0.00	0.15	0.171	0				0.87
49.083	0.00	0.15	0.170	0				0.87
49.167	0.00	0.14	0.169	0				0.86
49.250	0.00	0.14	0.168	0				0.86
49.333	0.00	0.14	0.167	0				0.86
49.417	0.00	0.14	0.166	0				0.85
49.500	0.00	0.14	0.165	0				0.85
49.583	0.00	0.13	0.164	0				0.84
49.667	0.00	0.13	0.163	0				0.84
49.750	0.00	0.13	0.162	0				0.83
49.833	0.00	0.13	0.161	0				0.83
49.917	0.00	0.13	0.160	0				0.82
50.000	0.00	0.13	0.160	0				0.82
50.083	0.00	0.12	0.159	0				0.82
50.167	0.00	0.12	0.158	0				0.81
50.250	0.00	0.12	0.157	0				0.81
50.333	0.00	0.12	0.156	0				0.80
50.417	0.00	0.12	0.155	0				0.80
50.500	0.00	0.12	0.155	0				0.80
50.583	0.00	0.11	0.154	0				0.79
50.667	0.00	0.11	0.153	0				0.79
50.750	0.00	0.11	0.152	0				0.78
50.833	0.00	0.11	0.151	0				0.78
50.917	0.00	0.11	0.151	0				0.78
51.000	0.00	0.11	0.150	0				0.77
51.083	0.00	0.11	0.149	0				0.77
51.167	0.00	0.10	0.149	0				0.77
51.250	0.00	0.10	0.148	0				0.76
51.333	0.00	0.10	0.147	0				0.76
51.417	0.00	0.10	0.146	0				0.76
51.500	0.00	0.10	0.146	0				0.75
51.583	0.00	0.10	0.145	0				0.75

51.667	0.00	0.10	0.144	0					0.75
51.750	0.00	0.10	0.144	0					0.74
51.833	0.00	0.09	0.143	0					0.74
51.917	0.00	0.09	0.142	0					0.74
52.000	0.00	0.09	0.142	0					0.73
52.083	0.00	0.09	0.141	0					0.73
52.167	0.00	0.09	0.140	0					0.73
52.250	0.00	0.09	0.140	0					0.73
52.333	0.00	0.09	0.139	0					0.72
52.417	0.00	0.09	0.139	0					0.72
52.500	0.00	0.09	0.138	0					0.72
52.583	0.00	0.08	0.137	0					0.71
52.667	0.00	0.08	0.137	0					0.71
52.750	0.00	0.08	0.136	0					0.71
52.833	0.00	0.08	0.136	0					0.71
52.917	0.00	0.08	0.135	0					0.70
53.000	0.00	0.08	0.135	0					0.70
53.083	0.00	0.08	0.134	0					0.70
53.167	0.00	0.08	0.134	0					0.70
53.250	0.00	0.08	0.133	0					0.69
53.333	0.00	0.07	0.133	0					0.69
53.417	0.00	0.07	0.132	0					0.69
53.500	0.00	0.07	0.132	0					0.69
53.583	0.00	0.07	0.131	0					0.68
53.667	0.00	0.07	0.131	0					0.68
53.750	0.00	0.07	0.130	0					0.68
53.833	0.00	0.07	0.130	0					0.68
53.917	0.00	0.07	0.129	0					0.67
54.000	0.00	0.07	0.129	0					0.67
54.083	0.00	0.07	0.128	0					0.67
54.167	0.00	0.07	0.128	0					0.67
54.250	0.00	0.06	0.127	0					0.66
54.333	0.00	0.06	0.127	0					0.66
54.417	0.00	0.06	0.126	0					0.66
54.500	0.00	0.06	0.126	0					0.66
54.583	0.00	0.06	0.126	0					0.66
54.667	0.00	0.06	0.125	0					0.65
54.750	0.00	0.06	0.125	0					0.65
54.833	0.00	0.06	0.124	0					0.65
54.917	0.00	0.06	0.124	0					0.65
55.000	0.00	0.06	0.124	0					0.65
55.083	0.00	0.06	0.123	0					0.64
55.167	0.00	0.06	0.123	0					0.64
55.250	0.00	0.06	0.122	0					0.64
55.333	0.00	0.05	0.122	0					0.64
55.417	0.00	0.05	0.122	0					0.64
55.500	0.00	0.05	0.121	0					0.64
55.583	0.00	0.05	0.121	0					0.63
55.667	0.00	0.05	0.121	0					0.63
55.750	0.00	0.05	0.120	0					0.63

55.833	0.00	0.05	0.120	0					0.63
55.917	0.00	0.05	0.119	0					0.63
56.000	0.00	0.05	0.119	0					0.63
56.083	0.00	0.05	0.119	0					0.62
56.167	0.00	0.05	0.118	0					0.62
56.250	0.00	0.05	0.118	0					0.62
56.333	0.00	0.05	0.118	0					0.62
56.417	0.00	0.05	0.117	0					0.62
56.500	0.00	0.05	0.117	0					0.62
56.583	0.00	0.05	0.117	0					0.61
56.667	0.00	0.04	0.117	0					0.61
56.750	0.00	0.04	0.116	0					0.61
56.833	0.00	0.04	0.116	0					0.61
56.917	0.00	0.04	0.116	0					0.61
57.000	0.00	0.04	0.115	0					0.61
57.083	0.00	0.04	0.115	0					0.61
57.167	0.00	0.04	0.115	0					0.60
57.250	0.00	0.04	0.114	0					0.60
57.333	0.00	0.04	0.114	0					0.60
57.417	0.00	0.04	0.114	0					0.60
57.500	0.00	0.04	0.114	0					0.60
57.583	0.00	0.04	0.113	0					0.60
57.667	0.00	0.04	0.113	0					0.60
57.750	0.00	0.04	0.113	0					0.60
57.833	0.00	0.04	0.113	0					0.59
57.917	0.00	0.04	0.112	0					0.59
58.000	0.00	0.04	0.112	0					0.59
58.083	0.00	0.04	0.112	0					0.59
58.167	0.00	0.04	0.112	0					0.59
58.250	0.00	0.03	0.111	0					0.59
58.333	0.00	0.03	0.111	0					0.59
58.417	0.00	0.03	0.111	0					0.59
58.500	0.00	0.03	0.111	0					0.58
58.583	0.00	0.03	0.110	0					0.58
58.667	0.00	0.03	0.110	0					0.58
58.750	0.00	0.03	0.110	0					0.58
58.833	0.00	0.03	0.110	0					0.58
58.917	0.00	0.03	0.110	0					0.58
59.000	0.00	0.03	0.109	0					0.58
59.083	0.00	0.03	0.109	0					0.58
59.167	0.00	0.03	0.109	0					0.58
59.250	0.00	0.03	0.109	0					0.58
59.333	0.00	0.03	0.109	0					0.57
59.417	0.00	0.03	0.108	0					0.57
59.500	0.00	0.03	0.108	0					0.57
59.583	0.00	0.03	0.108	0					0.57
59.667	0.00	0.03	0.108	0					0.57
59.750	0.00	0.03	0.108	0					0.57
59.833	0.00	0.03	0.107	0					0.57
59.917	0.00	0.03	0.107	0					0.57

60.000	0.00	0.03	0.107	0				0.57
60.083	0.00	0.03	0.107	0				0.57
60.167	0.00	0.03	0.107	0				0.57
60.250	0.00	0.03	0.106	0				0.56
60.333	0.00	0.03	0.106	0				0.56
60.417	0.00	0.02	0.106	0				0.56
60.500	0.00	0.02	0.106	0				0.56
60.583	0.00	0.02	0.106	0				0.56
60.667	0.00	0.02	0.106	0				0.56
60.750	0.00	0.02	0.105	0				0.56
60.833	0.00	0.02	0.105	0				0.56
60.917	0.00	0.02	0.105	0				0.56
61.000	0.00	0.02	0.105	0				0.56
61.083	0.00	0.02	0.105	0				0.56
61.167	0.00	0.02	0.105	0				0.56
61.250	0.00	0.02	0.105	0				0.56
61.333	0.00	0.02	0.104	0				0.55
61.417	0.00	0.02	0.104	0				0.55
61.500	0.00	0.02	0.104	0				0.55
61.583	0.00	0.02	0.104	0				0.55
61.667	0.00	0.02	0.104	0				0.55
61.750	0.00	0.02	0.104	0				0.55
61.833	0.00	0.02	0.104	0				0.55
61.917	0.00	0.02	0.103	0				0.55
62.000	0.00	0.02	0.103	0				0.55
62.083	0.00	0.02	0.103	0				0.55
62.167	0.00	0.02	0.103	0				0.55
62.250	0.00	0.02	0.103	0				0.55
62.333	0.00	0.02	0.103	0				0.55
62.417	0.00	0.02	0.103	0				0.55
62.500	0.00	0.02	0.102	0				0.55
62.583	0.00	0.02	0.102	0				0.54
62.667	0.00	0.02	0.102	0				0.54
62.750	0.00	0.02	0.102	0				0.54
62.833	0.00	0.02	0.102	0				0.54
62.917	0.00	0.02	0.102	0				0.54
63.000	0.00	0.02	0.102	0				0.54
63.083	0.00	0.02	0.102	0				0.54
63.167	0.00	0.02	0.102	0				0.54
63.250	0.00	0.02	0.101	0				0.54
63.333	0.00	0.02	0.101	0				0.54
63.417	0.00	0.02	0.101	0				0.54
63.500	0.00	0.02	0.101	0				0.54
63.583	0.00	0.02	0.101	0				0.54
63.667	0.00	0.01	0.101	0				0.54
63.750	0.00	0.01	0.101	0				0.54
63.833	0.00	0.01	0.101	0				0.54
63.917	0.00	0.01	0.101	0				0.54
64.000	0.00	0.01	0.100	0				0.54
64.083	0.00	0.01	0.100	0				0.54

64.167	0.00	0.01	0.100	0					0.54
64.250	0.00	0.01	0.100	0					0.53
64.333	0.00	0.01	0.100	0					0.53
64.417	0.00	0.01	0.100	0					0.53
64.500	0.00	0.01	0.100	0					0.53
64.583	0.00	0.01	0.100	0					0.53
64.667	0.00	0.01	0.100	0					0.53
64.750	0.00	0.01	0.100	0					0.53
64.833	0.00	0.01	0.100	0					0.53
64.917	0.00	0.01	0.099	0					0.53
65.000	0.00	0.01	0.099	0					0.53
65.083	0.00	0.01	0.099	0					0.53
65.167	0.00	0.01	0.099	0					0.53
65.250	0.00	0.01	0.099	0					0.53
65.333	0.00	0.01	0.099	0					0.53
65.417	0.00	0.01	0.099	0					0.53
65.500	0.00	0.01	0.099	0					0.53
65.583	0.00	0.01	0.099	0					0.53
65.667	0.00	0.01	0.099	0					0.53
65.750	0.00	0.01	0.099	0					0.53
65.833	0.00	0.01	0.099	0					0.53
65.917	0.00	0.01	0.099	0					0.53
66.000	0.00	0.01	0.098	0					0.53
66.083	0.00	0.01	0.098	0					0.53
66.167	0.00	0.01	0.098	0					0.53
66.250	0.00	0.01	0.098	0					0.53
66.333	0.00	0.01	0.098	0					0.53
66.417	0.00	0.01	0.098	0					0.52
66.500	0.00	0.01	0.098	0					0.52
66.583	0.00	0.01	0.098	0					0.52
66.667	0.00	0.01	0.098	0					0.52
66.750	0.00	0.01	0.098	0					0.52
66.833	0.00	0.01	0.098	0					0.52
66.917	0.00	0.01	0.098	0					0.52
67.000	0.00	0.01	0.098	0					0.52
67.083	0.00	0.01	0.098	0					0.52
67.167	0.00	0.01	0.098	0					0.52
67.250	0.00	0.01	0.098	0					0.52
67.333	0.00	0.01	0.097	0					0.52
67.417	0.00	0.01	0.097	0					0.52
67.500	0.00	0.01	0.097	0					0.52
67.583	0.00	0.01	0.097	0					0.52
67.667	0.00	0.01	0.097	0					0.52
67.750	0.00	0.01	0.097	0					0.52
67.833	0.00	0.01	0.097	0					0.52
67.917	0.00	0.01	0.097	0					0.52
68.000	0.00	0.01	0.097	0					0.52
68.083	0.00	0.01	0.097	0					0.52
68.167	0.00	0.01	0.097	0					0.52
68.250	0.00	0.01	0.097	0					0.52

68.333	0.00	0.01	0.097	0					0.52
68.417	0.00	0.01	0.097	0					0.52
68.500	0.00	0.01	0.097	0					0.52
68.583	0.00	0.01	0.097	0					0.52
68.667	0.00	0.01	0.097	0					0.52
68.750	0.00	0.01	0.097	0					0.52
68.833	0.00	0.01	0.097	0					0.52
68.917	0.00	0.01	0.096	0					0.52
69.000	0.00	0.01	0.096	0					0.52
69.083	0.00	0.01	0.096	0					0.52
69.167	0.00	0.01	0.096	0					0.52
69.250	0.00	0.01	0.096	0					0.52
69.333	0.00	0.01	0.096	0					0.52
69.417	0.00	0.01	0.096	0					0.52
69.500	0.00	0.01	0.096	0					0.52
69.583	0.00	0.01	0.096	0					0.52
69.667	0.00	0.01	0.096	0					0.51
69.750	0.00	0.01	0.096	0					0.51
69.833	0.00	0.01	0.096	0					0.51
69.917	0.00	0.01	0.096	0					0.51
70.000	0.00	0.01	0.096	0					0.51
70.083	0.00	0.01	0.096	0					0.51
70.167	0.00	0.01	0.096	0					0.51
70.250	0.00	0.01	0.096	0					0.51
70.333	0.00	0.01	0.096	0					0.51
70.417	0.00	0.01	0.096	0					0.51
70.500	0.00	0.01	0.096	0					0.51
70.583	0.00	0.01	0.096	0					0.51
70.667	0.00	0.00	0.096	0					0.51
70.750	0.00	0.00	0.096	0					0.51
70.833	0.00	0.00	0.096	0					0.51
70.917	0.00	0.00	0.096	0					0.51
71.000	0.00	0.00	0.096	0					0.51
71.083	0.00	0.00	0.095	0					0.51
71.167	0.00	0.00	0.095	0					0.51
71.250	0.00	0.00	0.095	0					0.51
71.333	0.00	0.00	0.095	0					0.51
71.417	0.00	0.00	0.095	0					0.51
71.500	0.00	0.00	0.095	0					0.51
71.583	0.00	0.00	0.095	0					0.51
71.667	0.00	0.00	0.095	0					0.51
71.750	0.00	0.00	0.095	0					0.51
71.833	0.00	0.00	0.095	0					0.51
71.917	0.00	0.00	0.095	0					0.51
72.000	0.00	0.00	0.095	0					0.51
72.083	0.00	0.00	0.095	0					0.51
72.167	0.00	0.00	0.095	0					0.51
72.250	0.00	0.00	0.095	0					0.51
72.333	0.00	0.00	0.095	0					0.51
72.417	0.00	0.00	0.095	0					0.51

72.500	0.00	0.00	0.095	0					0.51
72.583	0.00	0.00	0.095	0					0.51
72.667	0.00	0.00	0.095	0					0.51
72.750	0.00	0.00	0.095	0					0.51
72.833	0.00	0.00	0.095	0					0.51
72.917	0.00	0.00	0.095	0					0.51
73.000	0.00	0.00	0.095	0					0.51
73.083	0.00	0.00	0.095	0					0.51
73.167	0.00	0.00	0.095	0					0.51
73.250	0.00	0.00	0.095	0					0.51
73.333	0.00	0.00	0.095	0					0.51
73.417	0.00	0.00	0.095	0					0.51
73.500	0.00	0.00	0.095	0					0.51
73.583	0.00	0.00	0.095	0					0.51
73.667	0.00	0.00	0.095	0					0.51
73.750	0.00	0.00	0.095	0					0.51
73.833	0.00	0.00	0.095	0					0.51
73.917	0.00	0.00	0.095	0					0.51
74.000	0.00	0.00	0.095	0					0.51
74.083	0.00	0.00	0.095	0					0.51
74.167	0.00	0.00	0.095	0					0.51
74.250	0.00	0.00	0.095	0					0.51
74.333	0.00	0.00	0.094	0					0.51
74.417	0.00	0.00	0.094	0					0.51
74.500	0.00	0.00	0.094	0					0.51
74.583	0.00	0.00	0.094	0					0.51
74.667	0.00	0.00	0.094	0					0.51
74.750	0.00	0.00	0.094	0					0.51
74.833	0.00	0.00	0.094	0					0.51
74.917	0.00	0.00	0.094	0					0.51
75.000	0.00	0.00	0.094	0					0.51
75.083	0.00	0.00	0.094	0					0.51
75.167	0.00	0.00	0.094	0					0.51
75.250	0.00	0.00	0.094	0					0.51
75.333	0.00	0.00	0.094	0					0.51
75.417	0.00	0.00	0.094	0					0.51
75.500	0.00	0.00	0.094	0					0.51
75.583	0.00	0.00	0.094	0					0.51
75.667	0.00	0.00	0.094	0					0.51
75.750	0.00	0.00	0.094	0					0.51
75.833	0.00	0.00	0.094	0					0.51
75.917	0.00	0.00	0.094	0					0.51
76.000	0.00	0.00	0.094	0					0.51
76.083	0.00	0.00	0.094	0					0.51
76.167	0.00	0.00	0.094	0					0.51
76.250	0.00	0.00	0.094	0					0.51
76.333	0.00	0.00	0.094	0					0.51
76.417	0.00	0.00	0.094	0					0.51
76.500	0.00	0.00	0.094	0					0.51
76.583	0.00	0.00	0.094	0					0.51

76.667	0.00	0.00	0.094	0					0.50
76.750	0.00	0.00	0.094	0					0.50
76.833	0.00	0.00	0.094	0					0.50
76.917	0.00	0.00	0.094	0					0.50
77.000	0.00	0.00	0.094	0					0.50
77.083	0.00	0.00	0.094	0					0.50
77.167	0.00	0.00	0.094	0					0.50
77.250	0.00	0.00	0.094	0					0.50
77.333	0.00	0.00	0.094	0					0.50
77.417	0.00	0.00	0.094	0					0.50
77.500	0.00	0.00	0.094	0					0.50
77.583	0.00	0.00	0.094	0					0.50
77.667	0.00	0.00	0.094	0					0.50
77.750	0.00	0.00	0.094	0					0.50
77.833	0.00	0.00	0.094	0					0.50
77.917	0.00	0.00	0.094	0					0.50
78.000	0.00	0.00	0.094	0					0.50
78.083	0.00	0.00	0.094	0					0.50
78.167	0.00	0.00	0.094	0					0.50
78.250	0.00	0.00	0.094	0					0.50
78.333	0.00	0.00	0.094	0					0.50
78.417	0.00	0.00	0.094	0					0.50
78.500	0.00	0.00	0.094	0					0.50
78.583	0.00	0.00	0.094	0					0.50
78.667	0.00	0.00	0.094	0					0.50
78.750	0.00	0.00	0.094	0					0.50
78.833	0.00	0.00	0.094	0					0.50
78.917	0.00	0.00	0.094	0					0.50
79.000	0.00	0.00	0.094	0					0.50
79.083	0.00	0.00	0.094	0					0.50
79.167	0.00	0.00	0.094	0					0.50
79.250	0.00	0.00	0.094	0					0.50
79.333	0.00	0.00	0.094	0					0.50
79.417	0.00	0.00	0.094	0					0.50
79.500	0.00	0.00	0.094	0					0.50
79.583	0.00	0.00	0.094	0					0.50
79.667	0.00	0.00	0.094	0					0.50
79.750	0.00	0.00	0.094	0					0.50
79.833	0.00	0.00	0.094	0					0.50
79.917	0.00	0.00	0.094	0					0.50
80.000	0.00	0.00	0.094	0					0.50
80.083	0.00	0.00	0.094	0					0.50
80.167	0.00	0.00	0.094	0					0.50
80.250	0.00	0.00	0.094	0					0.50
80.333	0.00	0.00	0.094	0					0.50
80.417	0.00	0.00	0.094	0					0.50
80.500	0.00	0.00	0.094	0					0.50
80.583	0.00	0.00	0.094	0					0.50
80.667	0.00	0.00	0.094	0					0.50
80.750	0.00	0.00	0.094	0					0.50

80.833	0.00	0.00	0.094	0					0.50
80.917	0.00	0.00	0.094	0					0.50
81.000	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 972
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 1.286 (CFS)
 Total volume = 0.905 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 100YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH6100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 75
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 10.699 (CFS)
Total volume = 1.341 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 75

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	2.7	5.35	8.02	10.70	Depth (Ft.)
0.083	0.44	0.00	0.002	OI					0.01
0.167	0.86	0.00	0.006	O I					0.03
0.250	0.99	0.00	0.012	O I					0.07
0.333	1.02	0.00	0.019	O I					0.10
0.417	1.02	0.00	0.026	O I					0.14
0.500	1.12	0.00	0.034	O I					0.18
0.583	1.20	0.00	0.042	O I					0.22
0.667	1.21	0.00	0.050	O I					0.27
0.750	1.22	0.00	0.058	O I					0.31
0.833	1.22	0.00	0.067	O I					0.36
0.917	1.22	0.00	0.075	O I					0.40
1.000	1.33	0.00	0.084	O I					0.45
1.083	1.41	0.00	0.093	O I					0.50
1.167	1.43	0.02	0.103	O I					0.55
1.250	1.43	0.04	0.113	O I					0.59
1.333	1.43	0.05	0.122	O I					0.64
1.417	1.43	0.07	0.132	O I					0.69
1.500	1.43	0.09	0.141	O I					0.73
1.583	1.43	0.11	0.150	O I					0.77

5.833	1.03	4.43	1.067	I	0			3.98
5.917	0.70	3.87	1.044	I	0			3.91
6.000	0.46	3.35	1.023	I	0			3.85
6.083	0.19	2.87	1.004	I	0			3.80
6.167	0.03	2.43	0.987	I	0			3.75
6.250	0.01	2.05	0.971	I	0			3.71
6.333	0.00	1.73	0.958	I	0			3.67
6.417	0.00	1.45	0.947	I	0			3.64
6.500	0.00	1.22	0.938	I	0			3.62
6.583	0.00	1.03	0.930	I	0			3.59
6.667	0.00	0.87	0.924	I	0			3.58
6.750	0.00	0.73	0.918	I	0			3.56
6.833	0.00	0.61	0.914	IO				3.55
6.917	0.00	0.52	0.910	IO				3.54
7.000	0.00	0.43	0.907	IO				3.53
7.083	0.00	0.37	0.904	IO				3.52
7.167	0.00	0.31	0.901	0				3.51
7.250	0.00	0.26	0.900	0				3.51
7.333	0.00	0.22	0.898	0				3.50
7.417	0.00	0.20	0.896	0				3.50
7.500	0.00	0.20	0.895	0				3.49
7.583	0.00	0.20	0.894	0				3.49
7.667	0.00	0.20	0.892	0				3.49
7.750	0.00	0.20	0.891	0				3.48
7.833	0.00	0.20	0.890	0				3.48
7.917	0.00	0.20	0.888	0				3.47
8.000	0.00	0.20	0.887	0				3.47
8.083	0.00	0.20	0.886	0				3.47
8.167	0.00	0.20	0.884	0				3.46
8.250	0.00	0.20	0.883	0				3.46
8.333	0.00	0.20	0.882	0				3.45
8.417	0.00	0.20	0.880	0				3.45
8.500	0.00	0.20	0.879	0				3.45
8.583	0.00	0.20	0.878	0				3.44
8.667	0.00	0.20	0.876	0				3.44
8.750	0.00	0.20	0.875	0				3.43
8.833	0.00	0.20	0.873	0				3.43
8.917	0.00	0.20	0.872	0				3.42
9.000	0.00	0.20	0.871	0				3.42
9.083	0.00	0.20	0.869	0				3.42
9.167	0.00	0.20	0.868	0				3.41
9.250	0.00	0.20	0.867	0				3.41
9.333	0.00	0.20	0.865	0				3.40
9.417	0.00	0.20	0.864	0				3.40
9.500	0.00	0.20	0.863	0				3.40
9.583	0.00	0.20	0.861	0				3.39
9.667	0.00	0.20	0.860	0				3.39
9.750	0.00	0.20	0.859	0				3.38
9.833	0.00	0.20	0.857	0				3.38
9.917	0.00	0.20	0.856	0				3.38

10.000	0.00	0.20	0.855	0					3.37
10.083	0.00	0.20	0.853	0					3.37
10.167	0.00	0.20	0.852	0					3.36
10.250	0.00	0.20	0.850	0					3.36
10.333	0.00	0.20	0.849	0					3.35
10.417	0.00	0.20	0.848	0					3.35
10.500	0.00	0.20	0.846	0					3.35
10.583	0.00	0.20	0.845	0					3.34
10.667	0.00	0.20	0.844	0					3.34
10.750	0.00	0.20	0.842	0					3.33
10.833	0.00	0.20	0.841	0					3.33
10.917	0.00	0.20	0.840	0					3.33
11.000	0.00	0.20	0.838	0					3.32
11.083	0.00	0.20	0.837	0					3.32
11.167	0.00	0.20	0.836	0					3.31
11.250	0.00	0.20	0.834	0					3.31
11.333	0.00	0.20	0.833	0					3.31
11.417	0.00	0.20	0.832	0					3.30
11.500	0.00	0.20	0.830	0					3.30
11.583	0.00	0.20	0.829	0					3.29
11.667	0.00	0.20	0.827	0					3.29
11.750	0.00	0.20	0.826	0					3.29
11.833	0.00	0.20	0.825	0					3.28
11.917	0.00	0.20	0.823	0					3.28
12.000	0.00	0.20	0.822	0					3.27
12.083	0.00	0.20	0.821	0					3.27
12.167	0.00	0.20	0.819	0					3.26
12.250	0.00	0.20	0.818	0					3.26
12.333	0.00	0.20	0.817	0					3.26
12.417	0.00	0.20	0.815	0					3.25
12.500	0.00	0.20	0.814	0					3.25
12.583	0.00	0.20	0.813	0					3.24
12.667	0.00	0.20	0.811	0					3.24
12.750	0.00	0.20	0.810	0					3.24
12.833	0.00	0.20	0.809	0					3.23
12.917	0.00	0.20	0.807	0					3.23
13.000	0.00	0.20	0.806	0					3.22
13.083	0.00	0.20	0.804	0					3.22
13.167	0.00	0.20	0.803	0					3.22
13.250	0.00	0.20	0.802	0					3.21
13.333	0.00	0.20	0.800	0					3.21
13.417	0.00	0.20	0.799	0					3.20
13.500	0.00	0.20	0.798	0					3.20
13.583	0.00	0.20	0.796	0					3.20
13.667	0.00	0.20	0.795	0					3.19
13.750	0.00	0.20	0.794	0					3.19
13.833	0.00	0.20	0.792	0					3.18
13.917	0.00	0.20	0.791	0					3.18
14.000	0.00	0.20	0.790	0					3.17
14.083	0.00	0.20	0.788	0					3.17

14.167	0.00	0.20	0.787	0					3.17
14.250	0.00	0.20	0.786	0					3.16
14.333	0.00	0.20	0.784	0					3.16
14.417	0.00	0.20	0.783	0					3.15
14.500	0.00	0.20	0.782	0					3.15
14.583	0.00	0.20	0.780	0					3.15
14.667	0.00	0.20	0.779	0					3.14
14.750	0.00	0.20	0.777	0					3.14
14.833	0.00	0.20	0.776	0					3.13
14.917	0.00	0.20	0.775	0					3.13
15.000	0.00	0.20	0.773	0					3.13
15.083	0.00	0.20	0.772	0					3.12
15.167	0.00	0.20	0.771	0					3.12
15.250	0.00	0.20	0.769	0					3.11
15.333	0.00	0.20	0.768	0					3.11
15.417	0.00	0.20	0.767	0					3.10
15.500	0.00	0.20	0.765	0					3.10
15.583	0.00	0.20	0.764	0					3.10
15.667	0.00	0.20	0.763	0					3.09
15.750	0.00	0.20	0.761	0					3.09
15.833	0.00	0.20	0.760	0					3.08
15.917	0.00	0.20	0.759	0					3.08
16.000	0.00	0.20	0.757	0					3.08
16.083	0.00	0.20	0.756	0					3.07
16.167	0.00	0.20	0.754	0					3.07
16.250	0.00	0.20	0.753	0					3.06
16.333	0.00	0.20	0.752	0					3.06
16.417	0.00	0.20	0.750	0					3.06
16.500	0.00	0.20	0.749	0					3.05
16.583	0.00	0.20	0.748	0					3.05
16.667	0.00	0.20	0.746	0					3.04
16.750	0.00	0.20	0.745	0					3.04
16.833	0.00	0.20	0.744	0					3.04
16.917	0.00	0.20	0.742	0					3.03
17.000	0.00	0.20	0.741	0					3.03
17.083	0.00	0.20	0.740	0					3.02
17.167	0.00	0.20	0.738	0					3.02
17.250	0.00	0.20	0.737	0					3.01
17.333	0.00	0.20	0.736	0					3.01
17.417	0.00	0.20	0.734	0					3.01
17.500	0.00	0.20	0.733	0					3.00
17.583	0.00	0.20	0.731	0					3.00
17.667	0.00	0.20	0.730	0					2.99
17.750	0.00	0.20	0.729	0					2.99
17.833	0.00	0.20	0.727	0					2.98
17.917	0.00	0.20	0.726	0					2.98
18.000	0.00	0.20	0.725	0					2.98
18.083	0.00	0.20	0.723	0					2.97
18.167	0.00	0.20	0.722	0					2.97
18.250	0.00	0.20	0.721	0					2.96

18.333	0.00	0.20	0.719	0					2.96
18.417	0.00	0.20	0.718	0					2.95
18.500	0.00	0.20	0.717	0					2.95
18.583	0.00	0.20	0.715	0					2.94
18.667	0.00	0.20	0.714	0					2.94
18.750	0.00	0.20	0.713	0					2.94
18.833	0.00	0.20	0.711	0					2.93
18.917	0.00	0.20	0.710	0					2.93
19.000	0.00	0.20	0.708	0					2.92
19.083	0.00	0.20	0.707	0					2.92
19.167	0.00	0.20	0.706	0					2.91
19.250	0.00	0.20	0.704	0					2.91
19.333	0.00	0.20	0.703	0					2.90
19.417	0.00	0.20	0.702	0					2.90
19.500	0.00	0.20	0.700	0					2.90
19.583	0.00	0.20	0.699	0					2.89
19.667	0.00	0.20	0.698	0					2.89
19.750	0.00	0.20	0.696	0					2.88
19.833	0.00	0.20	0.695	0					2.88
19.917	0.00	0.20	0.694	0					2.87
20.000	0.00	0.20	0.692	0					2.87
20.083	0.00	0.20	0.691	0					2.86
20.167	0.00	0.20	0.690	0					2.86
20.250	0.00	0.20	0.688	0					2.86
20.333	0.00	0.20	0.687	0					2.85
20.417	0.00	0.20	0.685	0					2.85
20.500	0.00	0.20	0.684	0					2.84
20.583	0.00	0.20	0.683	0					2.84
20.667	0.00	0.20	0.681	0					2.83
20.750	0.00	0.20	0.680	0					2.83
20.833	0.00	0.20	0.679	0					2.82
20.917	0.00	0.20	0.677	0					2.82
21.000	0.00	0.20	0.676	0					2.82
21.083	0.00	0.20	0.675	0					2.81
21.167	0.00	0.20	0.673	0					2.81
21.250	0.00	0.20	0.672	0					2.80
21.333	0.00	0.20	0.671	0					2.80
21.417	0.00	0.20	0.669	0					2.79
21.500	0.00	0.20	0.668	0					2.79
21.583	0.00	0.20	0.667	0					2.78
21.667	0.00	0.20	0.665	0					2.78
21.750	0.00	0.20	0.664	0					2.78
21.833	0.00	0.20	0.663	0					2.77
21.917	0.00	0.20	0.661	0					2.77
22.000	0.00	0.20	0.660	0					2.76
22.083	0.00	0.20	0.658	0					2.76
22.167	0.00	0.20	0.657	0					2.75
22.250	0.00	0.20	0.656	0					2.75
22.333	0.00	0.20	0.654	0					2.74
22.417	0.00	0.20	0.653	0					2.74

22.500	0.00	0.20	0.652	0					2.74
22.583	0.00	0.20	0.650	0					2.73
22.667	0.00	0.20	0.649	0					2.73
22.750	0.00	0.20	0.648	0					2.72
22.833	0.00	0.20	0.646	0					2.72
22.917	0.00	0.20	0.645	0					2.71
23.000	0.00	0.20	0.644	0					2.71
23.083	0.00	0.20	0.642	0					2.70
23.167	0.00	0.20	0.641	0					2.70
23.250	0.00	0.20	0.640	0					2.70
23.333	0.00	0.20	0.638	0					2.69
23.417	0.00	0.20	0.637	0					2.69
23.500	0.00	0.20	0.635	0					2.68
23.583	0.00	0.20	0.634	0					2.68
23.667	0.00	0.20	0.633	0					2.67
23.750	0.00	0.20	0.631	0					2.67
23.833	0.00	0.20	0.630	0					2.66
23.917	0.00	0.20	0.629	0					2.66
24.000	0.00	0.20	0.627	0					2.66
24.083	0.00	0.20	0.626	0					2.65
24.167	0.00	0.20	0.625	0					2.65
24.250	0.00	0.20	0.623	0					2.64
24.333	0.00	0.20	0.622	0					2.64
24.417	0.00	0.20	0.621	0					2.63
24.500	0.00	0.20	0.619	0					2.63
24.583	0.00	0.20	0.618	0					2.62
24.667	0.00	0.20	0.617	0					2.62
24.750	0.00	0.20	0.615	0					2.62
24.833	0.00	0.20	0.614	0					2.61
24.917	0.00	0.20	0.612	0					2.61
25.000	0.00	0.20	0.611	0					2.60
25.083	0.00	0.20	0.610	0					2.60
25.167	0.00	0.20	0.608	0					2.59
25.250	0.00	0.20	0.607	0					2.59
25.333	0.00	0.20	0.606	0					2.58
25.417	0.00	0.20	0.604	0					2.58
25.500	0.00	0.20	0.603	0					2.58
25.583	0.00	0.20	0.602	0					2.57
25.667	0.00	0.20	0.600	0					2.57
25.750	0.00	0.20	0.599	0					2.56
25.833	0.00	0.20	0.598	0					2.56
25.917	0.00	0.20	0.596	0					2.55
26.000	0.00	0.20	0.595	0					2.55
26.083	0.00	0.20	0.594	0					2.54
26.167	0.00	0.20	0.592	0					2.54
26.250	0.00	0.20	0.591	0					2.54
26.333	0.00	0.20	0.589	0					2.53
26.417	0.00	0.20	0.588	0					2.53
26.500	0.00	0.20	0.587	0					2.52
26.583	0.00	0.20	0.585	0					2.52

26.667	0.00	0.20	0.584	0					2.51
26.750	0.00	0.20	0.583	0					2.51
26.833	0.00	0.20	0.581	0					2.50
26.917	0.00	0.20	0.580	0					2.50
27.000	0.00	0.20	0.579	0					2.50
27.083	0.00	0.20	0.577	0					2.49
27.167	0.00	0.20	0.576	0					2.49
27.250	0.00	0.20	0.575	0					2.48
27.333	0.00	0.20	0.573	0					2.48
27.417	0.00	0.20	0.572	0					2.47
27.500	0.00	0.20	0.571	0					2.47
27.583	0.00	0.20	0.569	0					2.46
27.667	0.00	0.20	0.568	0					2.46
27.750	0.00	0.20	0.566	0					2.45
27.833	0.00	0.20	0.565	0					2.45
27.917	0.00	0.20	0.564	0					2.44
28.000	0.00	0.20	0.562	0					2.44
28.083	0.00	0.20	0.561	0					2.43
28.167	0.00	0.20	0.560	0					2.43
28.250	0.00	0.20	0.558	0					2.42
28.333	0.00	0.20	0.557	0					2.42
28.417	0.00	0.20	0.556	0					2.41
28.500	0.00	0.20	0.554	0					2.41
28.583	0.00	0.20	0.553	0					2.40
28.667	0.00	0.20	0.552	0					2.40
28.750	0.00	0.20	0.550	0					2.39
28.833	0.00	0.20	0.549	0					2.39
28.917	0.00	0.20	0.548	0					2.38
29.000	0.00	0.20	0.546	0					2.38
29.083	0.00	0.20	0.545	0					2.37
29.167	0.00	0.20	0.544	0					2.37
29.250	0.00	0.20	0.542	0					2.36
29.333	0.00	0.20	0.541	0					2.36
29.417	0.00	0.20	0.539	0					2.36
29.500	0.00	0.20	0.538	0					2.35
29.583	0.00	0.20	0.537	0					2.35
29.667	0.00	0.20	0.535	0					2.34
29.750	0.00	0.20	0.534	0					2.34
29.833	0.00	0.20	0.533	0					2.33
29.917	0.00	0.20	0.531	0					2.33
30.000	0.00	0.20	0.530	0					2.32
30.083	0.00	0.20	0.529	0					2.32
30.167	0.00	0.20	0.527	0					2.31
30.250	0.00	0.20	0.526	0					2.31
30.333	0.00	0.20	0.525	0					2.30
30.417	0.00	0.20	0.523	0					2.30
30.500	0.00	0.20	0.522	0					2.29
30.583	0.00	0.20	0.521	0					2.29
30.667	0.00	0.20	0.519	0					2.28
30.750	0.00	0.20	0.518	0					2.28

30.833	0.00	0.20	0.516	0					2.27
30.917	0.00	0.20	0.515	0					2.27
31.000	0.00	0.20	0.514	0					2.26
31.083	0.00	0.20	0.512	0					2.26
31.167	0.00	0.20	0.511	0					2.25
31.250	0.00	0.20	0.510	0					2.25
31.333	0.00	0.20	0.508	0					2.24
31.417	0.00	0.20	0.507	0					2.24
31.500	0.00	0.20	0.506	0					2.23
31.583	0.00	0.20	0.504	0					2.23
31.667	0.00	0.20	0.503	0					2.22
31.750	0.00	0.20	0.502	0					2.22
31.833	0.00	0.20	0.500	0					2.22
31.917	0.00	0.20	0.499	0					2.21
32.000	0.00	0.20	0.498	0					2.21
32.083	0.00	0.20	0.496	0					2.20
32.167	0.00	0.20	0.495	0					2.20
32.250	0.00	0.20	0.493	0					2.19
32.333	0.00	0.20	0.492	0					2.19
32.417	0.00	0.20	0.491	0					2.18
32.500	0.00	0.20	0.489	0					2.18
32.583	0.00	0.20	0.488	0					2.17
32.667	0.00	0.20	0.487	0					2.17
32.750	0.00	0.20	0.485	0					2.16
32.833	0.00	0.20	0.484	0					2.16
32.917	0.00	0.20	0.483	0					2.15
33.000	0.00	0.20	0.481	0					2.15
33.083	0.00	0.20	0.480	0					2.14
33.167	0.00	0.20	0.479	0					2.14
33.250	0.00	0.20	0.477	0					2.13
33.333	0.00	0.20	0.476	0					2.13
33.417	0.00	0.20	0.475	0					2.12
33.500	0.00	0.20	0.473	0					2.12
33.583	0.00	0.20	0.472	0					2.11
33.667	0.00	0.20	0.470	0					2.11
33.750	0.00	0.20	0.469	0					2.10
33.833	0.00	0.20	0.468	0					2.10
33.917	0.00	0.20	0.466	0					2.09
34.000	0.00	0.20	0.465	0					2.09
34.083	0.00	0.20	0.464	0					2.08
34.167	0.00	0.20	0.462	0					2.08
34.250	0.00	0.20	0.461	0					2.08
34.333	0.00	0.20	0.460	0					2.07
34.417	0.00	0.20	0.458	0					2.07
34.500	0.00	0.20	0.457	0					2.06
34.583	0.00	0.20	0.456	0					2.06
34.667	0.00	0.20	0.454	0					2.05
34.750	0.00	0.20	0.453	0					2.05
34.833	0.00	0.20	0.452	0					2.04
34.917	0.00	0.20	0.450	0					2.04

35.000	0.00	0.20	0.449	0					2.03
35.083	0.00	0.20	0.447	0					2.03
35.167	0.00	0.20	0.446	0					2.02
35.250	0.00	0.20	0.445	0					2.02
35.333	0.00	0.20	0.443	0					2.01
35.417	0.00	0.20	0.442	0					2.01
35.500	0.00	0.20	0.441	0					2.00
35.583	0.00	0.20	0.439	0					2.00
35.667	0.00	0.20	0.438	0					1.99
35.750	0.00	0.20	0.437	0					1.99
35.833	0.00	0.20	0.435	0					1.98
35.917	0.00	0.20	0.434	0					1.98
36.000	0.00	0.20	0.433	0					1.97
36.083	0.00	0.20	0.431	0					1.97
36.167	0.00	0.20	0.430	0					1.96
36.250	0.00	0.20	0.429	0					1.95
36.333	0.00	0.20	0.427	0					1.95
36.417	0.00	0.20	0.426	0					1.94
36.500	0.00	0.20	0.425	0					1.94
36.583	0.00	0.20	0.423	0					1.93
36.667	0.00	0.20	0.422	0					1.93
36.750	0.00	0.20	0.420	0					1.92
36.833	0.00	0.20	0.419	0					1.92
36.917	0.00	0.20	0.418	0					1.91
37.000	0.00	0.20	0.416	0					1.91
37.083	0.00	0.20	0.415	0					1.90
37.167	0.00	0.20	0.414	0					1.90
37.250	0.00	0.20	0.412	0					1.89
37.333	0.00	0.20	0.411	0					1.89
37.417	0.00	0.20	0.410	0					1.88
37.500	0.00	0.20	0.408	0					1.88
37.583	0.00	0.20	0.407	0					1.87
37.667	0.00	0.20	0.406	0					1.86
37.750	0.00	0.20	0.404	0					1.86
37.833	0.00	0.20	0.403	0					1.85
37.917	0.00	0.20	0.402	0					1.85
38.000	0.00	0.20	0.400	0					1.84
38.083	0.00	0.20	0.399	0					1.84
38.167	0.00	0.20	0.397	0					1.83
38.250	0.00	0.20	0.396	0					1.83
38.333	0.00	0.20	0.395	0					1.82
38.417	0.00	0.20	0.393	0					1.82
38.500	0.00	0.20	0.392	0					1.81
38.583	0.00	0.20	0.391	0					1.81
38.667	0.00	0.20	0.389	0					1.80
38.750	0.00	0.20	0.388	0					1.80
38.833	0.00	0.20	0.387	0					1.79
38.917	0.00	0.20	0.385	0					1.78
39.000	0.00	0.20	0.384	0					1.78
39.083	0.00	0.20	0.383	0					1.77

39.167	0.00	0.20	0.381	0					1.77
39.250	0.00	0.20	0.380	0					1.76
39.333	0.00	0.20	0.379	0					1.76
39.417	0.00	0.20	0.377	0					1.75
39.500	0.00	0.20	0.376	0					1.75
39.583	0.00	0.20	0.374	0					1.74
39.667	0.00	0.20	0.373	0					1.74
39.750	0.00	0.20	0.372	0					1.73
39.833	0.00	0.20	0.370	0					1.73
39.917	0.00	0.20	0.369	0					1.72
40.000	0.00	0.20	0.368	0					1.72
40.083	0.00	0.20	0.366	0					1.71
40.167	0.00	0.20	0.365	0					1.70
40.250	0.00	0.20	0.364	0					1.70
40.333	0.00	0.20	0.362	0					1.69
40.417	0.00	0.20	0.361	0					1.69
40.500	0.00	0.20	0.360	0					1.68
40.583	0.00	0.20	0.358	0					1.68
40.667	0.00	0.20	0.357	0					1.67
40.750	0.00	0.20	0.356	0					1.67
40.833	0.00	0.20	0.354	0					1.66
40.917	0.00	0.20	0.353	0					1.66
41.000	0.00	0.20	0.351	0					1.65
41.083	0.00	0.20	0.350	0					1.65
41.167	0.00	0.20	0.349	0					1.64
41.250	0.00	0.20	0.347	0					1.64
41.333	0.00	0.20	0.346	0					1.63
41.417	0.00	0.20	0.345	0					1.62
41.500	0.00	0.20	0.343	0					1.62
41.583	0.00	0.20	0.342	0					1.61
41.667	0.00	0.20	0.341	0					1.61
41.750	0.00	0.20	0.339	0					1.60
41.833	0.00	0.20	0.338	0					1.60
41.917	0.00	0.20	0.337	0					1.59
42.000	0.00	0.20	0.335	0					1.59
42.083	0.00	0.20	0.334	0					1.58
42.167	0.00	0.20	0.333	0					1.58
42.250	0.00	0.20	0.331	0					1.57
42.333	0.00	0.20	0.330	0					1.57
42.417	0.00	0.20	0.328	0					1.56
42.500	0.00	0.20	0.327	0					1.56
42.583	0.00	0.20	0.326	0					1.55
42.667	0.00	0.20	0.324	0					1.55
42.750	0.00	0.20	0.323	0					1.54
42.833	0.00	0.20	0.322	0					1.53
42.917	0.00	0.20	0.320	0					1.53
43.000	0.00	0.20	0.319	0					1.52
43.083	0.00	0.20	0.318	0					1.52
43.167	0.00	0.20	0.316	0					1.51
43.250	0.00	0.20	0.315	0					1.51

43.333	0.00	0.20	0.314	0				1.50
43.417	0.00	0.20	0.312	0				1.50
43.500	0.00	0.20	0.311	0				1.49
43.583	0.00	0.20	0.310	0				1.49
43.667	0.00	0.20	0.308	0				1.48
43.750	0.00	0.20	0.307	0				1.47
43.833	0.00	0.20	0.306	0				1.47
43.917	0.00	0.20	0.304	0				1.46
44.000	0.00	0.20	0.303	0				1.46
44.083	0.00	0.20	0.301	0				1.45
44.167	0.00	0.20	0.300	0				1.44
44.250	0.00	0.20	0.299	0				1.44
44.333	0.00	0.20	0.297	0				1.43
44.417	0.00	0.20	0.296	0				1.43
44.500	0.00	0.20	0.295	0				1.42
44.583	0.00	0.20	0.293	0				1.42
44.667	0.00	0.20	0.292	0				1.41
44.750	0.00	0.20	0.291	0				1.40
44.833	0.00	0.20	0.289	0				1.40
44.917	0.00	0.20	0.288	0				1.39
45.000	0.00	0.20	0.287	0				1.39
45.083	0.00	0.20	0.285	0				1.38
45.167	0.00	0.20	0.284	0				1.37
45.250	0.00	0.20	0.283	0				1.37
45.333	0.00	0.20	0.281	0				1.36
45.417	0.00	0.20	0.280	0				1.36
45.500	0.00	0.20	0.278	0				1.35
45.583	0.00	0.20	0.277	0				1.35
45.667	0.00	0.20	0.276	0				1.34
45.750	0.00	0.20	0.274	0				1.33
45.833	0.00	0.20	0.273	0				1.33
45.917	0.00	0.20	0.272	0				1.32
46.000	0.00	0.20	0.270	0				1.32
46.083	0.00	0.20	0.269	0				1.31
46.167	0.00	0.20	0.268	0				1.30
46.250	0.00	0.20	0.266	0				1.30
46.333	0.00	0.20	0.265	0				1.29
46.417	0.00	0.20	0.264	0				1.29
46.500	0.00	0.20	0.262	0				1.28
46.583	0.00	0.20	0.261	0				1.28
46.667	0.00	0.20	0.260	0				1.27
46.750	0.00	0.20	0.258	0				1.26
46.833	0.00	0.20	0.257	0				1.26
46.917	0.00	0.20	0.255	0				1.25
47.000	0.00	0.20	0.254	0				1.25
47.083	0.00	0.20	0.253	0				1.24
47.167	0.00	0.20	0.251	0				1.23
47.250	0.00	0.20	0.250	0				1.23
47.333	0.00	0.20	0.249	0				1.22
47.417	0.00	0.20	0.247	0				1.22

47.500	0.00	0.20	0.246	0					1.21
47.583	0.00	0.20	0.245	0					1.21
47.667	0.00	0.20	0.243	0					1.20
47.750	0.00	0.20	0.242	0					1.19
47.833	0.00	0.20	0.241	0					1.19
47.917	0.00	0.20	0.239	0					1.18
48.000	0.00	0.20	0.238	0					1.18
48.083	0.00	0.20	0.237	0					1.17
48.167	0.00	0.20	0.235	0					1.16
48.250	0.00	0.20	0.234	0					1.16
48.333	0.00	0.20	0.232	0					1.15
48.417	0.00	0.20	0.231	0					1.15
48.500	0.00	0.20	0.230	0					1.14
48.583	0.00	0.20	0.228	0					1.14
48.667	0.00	0.20	0.227	0					1.13
48.750	0.00	0.20	0.226	0					1.12
48.833	0.00	0.20	0.224	0					1.12
48.917	0.00	0.20	0.223	0					1.11
49.000	0.00	0.20	0.222	0					1.11
49.083	0.00	0.20	0.220	0					1.10
49.167	0.00	0.20	0.219	0					1.09
49.250	0.00	0.20	0.218	0					1.09
49.333	0.00	0.20	0.216	0					1.08
49.417	0.00	0.20	0.215	0					1.08
49.500	0.00	0.20	0.214	0					1.07
49.583	0.00	0.20	0.212	0					1.07
49.667	0.00	0.20	0.211	0					1.06
49.750	0.00	0.20	0.209	0					1.05
49.833	0.00	0.20	0.208	0					1.05
49.917	0.00	0.20	0.207	0					1.04
50.000	0.00	0.20	0.205	0					1.04
50.083	0.00	0.20	0.204	0					1.03
50.167	0.00	0.20	0.203	0					1.02
50.250	0.00	0.20	0.201	0					1.02
50.333	0.00	0.20	0.200	0					1.01
50.417	0.00	0.20	0.199	0					1.01
50.500	0.00	0.20	0.197	0					1.00
50.583	0.00	0.19	0.196	0					1.00
50.667	0.00	0.19	0.195	0					0.99
50.750	0.00	0.19	0.193	0					0.98
50.833	0.00	0.19	0.192	0					0.98
50.917	0.00	0.18	0.191	0					0.97
51.000	0.00	0.18	0.189	0					0.96
51.083	0.00	0.18	0.188	0					0.96
51.167	0.00	0.18	0.187	0					0.95
51.250	0.00	0.18	0.186	0					0.95
51.333	0.00	0.17	0.185	0					0.94
51.417	0.00	0.17	0.183	0					0.93
51.500	0.00	0.17	0.182	0					0.93
51.583	0.00	0.17	0.181	0					0.92

51.667	0.00	0.16	0.180	0				0.92
51.750	0.00	0.16	0.179	0				0.91
51.833	0.00	0.16	0.178	0				0.91
51.917	0.00	0.16	0.177	0				0.90
52.000	0.00	0.16	0.176	0				0.90
52.083	0.00	0.15	0.174	0				0.89
52.167	0.00	0.15	0.173	0				0.89
52.250	0.00	0.15	0.172	0				0.88
52.333	0.00	0.15	0.171	0				0.88
52.417	0.00	0.15	0.170	0				0.87
52.500	0.00	0.14	0.169	0				0.87
52.583	0.00	0.14	0.168	0				0.86
52.667	0.00	0.14	0.167	0				0.86
52.750	0.00	0.14	0.166	0				0.85
52.833	0.00	0.14	0.165	0				0.85
52.917	0.00	0.14	0.165	0				0.84
53.000	0.00	0.13	0.164	0				0.84
53.083	0.00	0.13	0.163	0				0.84
53.167	0.00	0.13	0.162	0				0.83
53.250	0.00	0.13	0.161	0				0.83
53.333	0.00	0.13	0.160	0				0.82
53.417	0.00	0.12	0.159	0				0.82
53.500	0.00	0.12	0.158	0				0.81
53.583	0.00	0.12	0.157	0				0.81
53.667	0.00	0.12	0.157	0				0.81
53.750	0.00	0.12	0.156	0				0.80
53.833	0.00	0.12	0.155	0				0.80
53.917	0.00	0.12	0.154	0				0.79
54.000	0.00	0.11	0.153	0				0.79
54.083	0.00	0.11	0.153	0				0.79
54.167	0.00	0.11	0.152	0				0.78
54.250	0.00	0.11	0.151	0				0.78
54.333	0.00	0.11	0.150	0				0.78
54.417	0.00	0.11	0.150	0				0.77
54.500	0.00	0.11	0.149	0				0.77
54.583	0.00	0.10	0.148	0				0.77
54.667	0.00	0.10	0.147	0				0.76
54.750	0.00	0.10	0.147	0				0.76
54.833	0.00	0.10	0.146	0				0.76
54.917	0.00	0.10	0.145	0				0.75
55.000	0.00	0.10	0.145	0				0.75
55.083	0.00	0.10	0.144	0				0.75
55.167	0.00	0.10	0.143	0				0.74
55.250	0.00	0.09	0.143	0				0.74
55.333	0.00	0.09	0.142	0				0.74
55.417	0.00	0.09	0.141	0				0.73
55.500	0.00	0.09	0.141	0				0.73
55.583	0.00	0.09	0.140	0				0.73
55.667	0.00	0.09	0.140	0				0.72
55.750	0.00	0.09	0.139	0				0.72

55.833	0.00	0.09	0.138	0					0.72
55.917	0.00	0.08	0.138	0					0.72
56.000	0.00	0.08	0.137	0					0.71
56.083	0.00	0.08	0.137	0					0.71
56.167	0.00	0.08	0.136	0					0.71
56.250	0.00	0.08	0.136	0					0.70
56.333	0.00	0.08	0.135	0					0.70
56.417	0.00	0.08	0.134	0					0.70
56.500	0.00	0.08	0.134	0					0.70
56.583	0.00	0.08	0.133	0					0.69
56.667	0.00	0.08	0.133	0					0.69
56.750	0.00	0.07	0.132	0					0.69
56.833	0.00	0.07	0.132	0					0.69
56.917	0.00	0.07	0.131	0					0.68
57.000	0.00	0.07	0.131	0					0.68
57.083	0.00	0.07	0.130	0					0.68
57.167	0.00	0.07	0.130	0					0.68
57.250	0.00	0.07	0.129	0					0.67
57.333	0.00	0.07	0.129	0					0.67
57.417	0.00	0.07	0.128	0					0.67
57.500	0.00	0.07	0.128	0					0.67
57.583	0.00	0.07	0.128	0					0.67
57.667	0.00	0.06	0.127	0					0.66
57.750	0.00	0.06	0.127	0					0.66
57.833	0.00	0.06	0.126	0					0.66
57.917	0.00	0.06	0.126	0					0.66
58.000	0.00	0.06	0.125	0					0.66
58.083	0.00	0.06	0.125	0					0.65
58.167	0.00	0.06	0.125	0					0.65
58.250	0.00	0.06	0.124	0					0.65
58.333	0.00	0.06	0.124	0					0.65
58.417	0.00	0.06	0.123	0					0.65
58.500	0.00	0.06	0.123	0					0.64
58.583	0.00	0.06	0.123	0					0.64
58.667	0.00	0.06	0.122	0					0.64
58.750	0.00	0.05	0.122	0					0.64
58.833	0.00	0.05	0.121	0					0.64
58.917	0.00	0.05	0.121	0					0.63
59.000	0.00	0.05	0.121	0					0.63
59.083	0.00	0.05	0.120	0					0.63
59.167	0.00	0.05	0.120	0					0.63
59.250	0.00	0.05	0.120	0					0.63
59.333	0.00	0.05	0.119	0					0.63
59.417	0.00	0.05	0.119	0					0.62
59.500	0.00	0.05	0.119	0					0.62
59.583	0.00	0.05	0.118	0					0.62
59.667	0.00	0.05	0.118	0					0.62
59.750	0.00	0.05	0.118	0					0.62
59.833	0.00	0.05	0.117	0					0.62
59.917	0.00	0.05	0.117	0					0.62

60.000	0.00	0.04	0.117	0				0.61
60.083	0.00	0.04	0.116	0				0.61
60.167	0.00	0.04	0.116	0				0.61
60.250	0.00	0.04	0.116	0				0.61
60.333	0.00	0.04	0.115	0				0.61
60.417	0.00	0.04	0.115	0				0.61
60.500	0.00	0.04	0.115	0				0.61
60.583	0.00	0.04	0.115	0				0.60
60.667	0.00	0.04	0.114	0				0.60
60.750	0.00	0.04	0.114	0				0.60
60.833	0.00	0.04	0.114	0				0.60
60.917	0.00	0.04	0.114	0				0.60
61.000	0.00	0.04	0.113	0				0.60
61.083	0.00	0.04	0.113	0				0.60
61.167	0.00	0.04	0.113	0				0.59
61.250	0.00	0.04	0.112	0				0.59
61.333	0.00	0.04	0.112	0				0.59
61.417	0.00	0.04	0.112	0				0.59
61.500	0.00	0.04	0.112	0				0.59
61.583	0.00	0.03	0.112	0				0.59
61.667	0.00	0.03	0.111	0				0.59
61.750	0.00	0.03	0.111	0				0.59
61.833	0.00	0.03	0.111	0				0.59
61.917	0.00	0.03	0.111	0				0.58
62.000	0.00	0.03	0.110	0				0.58
62.083	0.00	0.03	0.110	0				0.58
62.167	0.00	0.03	0.110	0				0.58
62.250	0.00	0.03	0.110	0				0.58
62.333	0.00	0.03	0.109	0				0.58
62.417	0.00	0.03	0.109	0				0.58
62.500	0.00	0.03	0.109	0				0.58
62.583	0.00	0.03	0.109	0				0.58
62.667	0.00	0.03	0.109	0				0.58
62.750	0.00	0.03	0.108	0				0.57
62.833	0.00	0.03	0.108	0				0.57
62.917	0.00	0.03	0.108	0				0.57
63.000	0.00	0.03	0.108	0				0.57
63.083	0.00	0.03	0.108	0				0.57
63.167	0.00	0.03	0.107	0				0.57
63.250	0.00	0.03	0.107	0				0.57
63.333	0.00	0.03	0.107	0				0.57
63.417	0.00	0.03	0.107	0				0.57
63.500	0.00	0.03	0.107	0				0.57
63.583	0.00	0.03	0.107	0				0.57
63.667	0.00	0.03	0.106	0				0.56
63.750	0.00	0.02	0.106	0				0.56
63.833	0.00	0.02	0.106	0				0.56
63.917	0.00	0.02	0.106	0				0.56
64.000	0.00	0.02	0.106	0				0.56
64.083	0.00	0.02	0.106	0				0.56

64.167	0.00	0.02	0.105	0					0.56
64.250	0.00	0.02	0.105	0					0.56
64.333	0.00	0.02	0.105	0					0.56
64.417	0.00	0.02	0.105	0					0.56
64.500	0.00	0.02	0.105	0					0.56
64.583	0.00	0.02	0.105	0					0.56
64.667	0.00	0.02	0.104	0					0.55
64.750	0.00	0.02	0.104	0					0.55
64.833	0.00	0.02	0.104	0					0.55
64.917	0.00	0.02	0.104	0					0.55
65.000	0.00	0.02	0.104	0					0.55
65.083	0.00	0.02	0.104	0					0.55
65.167	0.00	0.02	0.104	0					0.55
65.250	0.00	0.02	0.103	0					0.55
65.333	0.00	0.02	0.103	0					0.55
65.417	0.00	0.02	0.103	0					0.55
65.500	0.00	0.02	0.103	0					0.55
65.583	0.00	0.02	0.103	0					0.55
65.667	0.00	0.02	0.103	0					0.55
65.750	0.00	0.02	0.103	0					0.55
65.833	0.00	0.02	0.103	0					0.55
65.917	0.00	0.02	0.102	0					0.55
66.000	0.00	0.02	0.102	0					0.54
66.083	0.00	0.02	0.102	0					0.54
66.167	0.00	0.02	0.102	0					0.54
66.250	0.00	0.02	0.102	0					0.54
66.333	0.00	0.02	0.102	0					0.54
66.417	0.00	0.02	0.102	0					0.54
66.500	0.00	0.02	0.102	0					0.54
66.583	0.00	0.02	0.101	0					0.54
66.667	0.00	0.02	0.101	0					0.54
66.750	0.00	0.02	0.101	0					0.54
66.833	0.00	0.02	0.101	0					0.54
66.917	0.00	0.02	0.101	0					0.54
67.000	0.00	0.02	0.101	0					0.54
67.083	0.00	0.01	0.101	0					0.54
67.167	0.00	0.01	0.101	0					0.54
67.250	0.00	0.01	0.101	0					0.54
67.333	0.00	0.01	0.101	0					0.54
67.417	0.00	0.01	0.100	0					0.54
67.500	0.00	0.01	0.100	0					0.54
67.583	0.00	0.01	0.100	0					0.53
67.667	0.00	0.01	0.100	0					0.53
67.750	0.00	0.01	0.100	0					0.53
67.833	0.00	0.01	0.100	0					0.53
67.917	0.00	0.01	0.100	0					0.53
68.000	0.00	0.01	0.100	0					0.53
68.083	0.00	0.01	0.100	0					0.53
68.167	0.00	0.01	0.100	0					0.53
68.250	0.00	0.01	0.100	0					0.53

68.333	0.00	0.01	0.099	0					0.53
68.417	0.00	0.01	0.099	0					0.53
68.500	0.00	0.01	0.099	0					0.53
68.583	0.00	0.01	0.099	0					0.53
68.667	0.00	0.01	0.099	0					0.53
68.750	0.00	0.01	0.099	0					0.53
68.833	0.00	0.01	0.099	0					0.53
68.917	0.00	0.01	0.099	0					0.53
69.000	0.00	0.01	0.099	0					0.53
69.083	0.00	0.01	0.099	0					0.53
69.167	0.00	0.01	0.099	0					0.53
69.250	0.00	0.01	0.099	0					0.53
69.333	0.00	0.01	0.099	0					0.53
69.417	0.00	0.01	0.098	0					0.53
69.500	0.00	0.01	0.098	0					0.53
69.583	0.00	0.01	0.098	0					0.53
69.667	0.00	0.01	0.098	0					0.53
69.750	0.00	0.01	0.098	0					0.52
69.833	0.00	0.01	0.098	0					0.52
69.917	0.00	0.01	0.098	0					0.52
70.000	0.00	0.01	0.098	0					0.52
70.083	0.00	0.01	0.098	0					0.52
70.167	0.00	0.01	0.098	0					0.52
70.250	0.00	0.01	0.098	0					0.52
70.333	0.00	0.01	0.098	0					0.52
70.417	0.00	0.01	0.098	0					0.52
70.500	0.00	0.01	0.098	0					0.52
70.583	0.00	0.01	0.098	0					0.52
70.667	0.00	0.01	0.097	0					0.52
70.750	0.00	0.01	0.097	0					0.52
70.833	0.00	0.01	0.097	0					0.52
70.917	0.00	0.01	0.097	0					0.52
71.000	0.00	0.01	0.097	0					0.52
71.083	0.00	0.01	0.097	0					0.52
71.167	0.00	0.01	0.097	0					0.52
71.250	0.00	0.01	0.097	0					0.52
71.333	0.00	0.01	0.097	0					0.52
71.417	0.00	0.01	0.097	0					0.52
71.500	0.00	0.01	0.097	0					0.52
71.583	0.00	0.01	0.097	0					0.52
71.667	0.00	0.01	0.097	0					0.52
71.750	0.00	0.01	0.097	0					0.52
71.833	0.00	0.01	0.097	0					0.52
71.917	0.00	0.01	0.097	0					0.52
72.000	0.00	0.01	0.097	0					0.52
72.083	0.00	0.01	0.097	0					0.52
72.167	0.00	0.01	0.097	0					0.52
72.250	0.00	0.01	0.097	0					0.52
72.333	0.00	0.01	0.096	0					0.52
72.417	0.00	0.01	0.096	0					0.52

72.500	0.00	0.01	0.096	0					0.52
72.583	0.00	0.01	0.096	0					0.52
72.667	0.00	0.01	0.096	0					0.52
72.750	0.00	0.01	0.096	0					0.52
72.833	0.00	0.01	0.096	0					0.52
72.917	0.00	0.01	0.096	0					0.52
73.000	0.00	0.01	0.096	0					0.51
73.083	0.00	0.01	0.096	0					0.51
73.167	0.00	0.01	0.096	0					0.51
73.250	0.00	0.01	0.096	0					0.51
73.333	0.00	0.01	0.096	0					0.51
73.417	0.00	0.01	0.096	0					0.51
73.500	0.00	0.01	0.096	0					0.51
73.583	0.00	0.01	0.096	0					0.51
73.667	0.00	0.01	0.096	0					0.51
73.750	0.00	0.01	0.096	0					0.51
73.833	0.00	0.01	0.096	0					0.51
73.917	0.00	0.01	0.096	0					0.51
74.000	0.00	0.01	0.096	0					0.51
74.083	0.00	0.00	0.096	0					0.51
74.167	0.00	0.00	0.096	0					0.51
74.250	0.00	0.00	0.096	0					0.51
74.333	0.00	0.00	0.096	0					0.51
74.417	0.00	0.00	0.095	0					0.51
74.500	0.00	0.00	0.095	0					0.51
74.583	0.00	0.00	0.095	0					0.51
74.667	0.00	0.00	0.095	0					0.51
74.750	0.00	0.00	0.095	0					0.51
74.833	0.00	0.00	0.095	0					0.51
74.917	0.00	0.00	0.095	0					0.51
75.000	0.00	0.00	0.095	0					0.51
75.083	0.00	0.00	0.095	0					0.51
75.167	0.00	0.00	0.095	0					0.51
75.250	0.00	0.00	0.095	0					0.51
75.333	0.00	0.00	0.095	0					0.51
75.417	0.00	0.00	0.095	0					0.51
75.500	0.00	0.00	0.095	0					0.51
75.583	0.00	0.00	0.095	0					0.51
75.667	0.00	0.00	0.095	0					0.51
75.750	0.00	0.00	0.095	0					0.51
75.833	0.00	0.00	0.095	0					0.51
75.917	0.00	0.00	0.095	0					0.51
76.000	0.00	0.00	0.095	0					0.51
76.083	0.00	0.00	0.095	0					0.51
76.167	0.00	0.00	0.095	0					0.51
76.250	0.00	0.00	0.095	0					0.51
76.333	0.00	0.00	0.095	0					0.51
76.417	0.00	0.00	0.095	0					0.51
76.500	0.00	0.00	0.095	0					0.51
76.583	0.00	0.00	0.095	0					0.51

76.667	0.00	0.00	0.095	0					0.51
76.750	0.00	0.00	0.095	0					0.51
76.833	0.00	0.00	0.095	0					0.51
76.917	0.00	0.00	0.095	0					0.51
77.000	0.00	0.00	0.095	0					0.51
77.083	0.00	0.00	0.095	0					0.51
77.167	0.00	0.00	0.095	0					0.51
77.250	0.00	0.00	0.095	0					0.51
77.333	0.00	0.00	0.095	0					0.51
77.417	0.00	0.00	0.095	0					0.51
77.500	0.00	0.00	0.095	0					0.51
77.583	0.00	0.00	0.095	0					0.51
77.667	0.00	0.00	0.095	0					0.51
77.750	0.00	0.00	0.094	0					0.51
77.833	0.00	0.00	0.094	0					0.51
77.917	0.00	0.00	0.094	0					0.51
78.000	0.00	0.00	0.094	0					0.51
78.083	0.00	0.00	0.094	0					0.51
78.167	0.00	0.00	0.094	0					0.51
78.250	0.00	0.00	0.094	0					0.51
78.333	0.00	0.00	0.094	0					0.51
78.417	0.00	0.00	0.094	0					0.51
78.500	0.00	0.00	0.094	0					0.51
78.583	0.00	0.00	0.094	0					0.51
78.667	0.00	0.00	0.094	0					0.51
78.750	0.00	0.00	0.094	0					0.51
78.833	0.00	0.00	0.094	0					0.51
78.917	0.00	0.00	0.094	0					0.51
79.000	0.00	0.00	0.094	0					0.51
79.083	0.00	0.00	0.094	0					0.51
79.167	0.00	0.00	0.094	0					0.51
79.250	0.00	0.00	0.094	0					0.51
79.333	0.00	0.00	0.094	0					0.51
79.417	0.00	0.00	0.094	0					0.51
79.500	0.00	0.00	0.094	0					0.51
79.583	0.00	0.00	0.094	0					0.51
79.667	0.00	0.00	0.094	0					0.51
79.750	0.00	0.00	0.094	0					0.51
79.833	0.00	0.00	0.094	0					0.51
79.917	0.00	0.00	0.094	0					0.51
80.000	0.00	0.00	0.094	0					0.51
80.083	0.00	0.00	0.094	0					0.50
80.167	0.00	0.00	0.094	0					0.50
80.250	0.00	0.00	0.094	0					0.50
80.333	0.00	0.00	0.094	0					0.50
80.417	0.00	0.00	0.094	0					0.50
80.500	0.00	0.00	0.094	0					0.50
80.583	0.00	0.00	0.094	0					0.50
80.667	0.00	0.00	0.094	0					0.50
80.750	0.00	0.00	0.094	0					0.50

80.833	0.00	0.00	0.094	0					0.50
80.917	0.00	0.00	0.094	0					0.50
81.000	0.00	0.00	0.094	0					0.50
81.083	0.00	0.00	0.094	0					0.50
81.167	0.00	0.00	0.094	0					0.50
81.250	0.00	0.00	0.094	0					0.50
81.333	0.00	0.00	0.094	0					0.50
81.417	0.00	0.00	0.094	0					0.50
81.500	0.00	0.00	0.094	0					0.50
81.583	0.00	0.00	0.094	0					0.50
81.667	0.00	0.00	0.094	0					0.50
81.750	0.00	0.00	0.094	0					0.50
81.833	0.00	0.00	0.094	0					0.50
81.917	0.00	0.00	0.094	0					0.50
82.000	0.00	0.00	0.094	0					0.50
82.083	0.00	0.00	0.094	0					0.50
82.167	0.00	0.00	0.094	0					0.50
82.250	0.00	0.00	0.094	0					0.50
82.333	0.00	0.00	0.094	0					0.50
82.417	0.00	0.00	0.094	0					0.50
82.500	0.00	0.00	0.094	0					0.50
82.583	0.00	0.00	0.094	0					0.50
82.667	0.00	0.00	0.094	0					0.50
82.750	0.00	0.00	0.094	0					0.50
82.833	0.00	0.00	0.094	0					0.50
82.917	0.00	0.00	0.094	0					0.50
83.000	0.00	0.00	0.094	0					0.50
83.083	0.00	0.00	0.094	0					0.50
83.167	0.00	0.00	0.094	0					0.50
83.250	0.00	0.00	0.094	0					0.50
83.333	0.00	0.00	0.094	0					0.50
83.417	0.00	0.00	0.094	0					0.50
83.500	0.00	0.00	0.094	0					0.50
83.583	0.00	0.00	0.094	0					0.50
83.667	0.00	0.00	0.094	0					0.50
83.750	0.00	0.00	0.094	0					0.50
83.833	0.00	0.00	0.094	0					0.50
83.917	0.00	0.00	0.094	0					0.50
84.000	0.00	0.00	0.094	0					0.50
84.083	0.00	0.00	0.094	0					0.50
84.167	0.00	0.00	0.094	0					0.50
84.250	0.00	0.00	0.094	0					0.50
84.333	0.00	0.00	0.094	0					0.50
84.417	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 1013
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 4.930 (CFS)
Total volume = 1.247 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 1 100YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA1Q100UH24100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 291
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 4.082 (CFS)
Total volume = 2.285 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.50(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 4.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 4.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 1.00(Ft.) Capacity = 6.28(CFS)

Total outflow at this depth = 6.48(CFS)

Total number of inflow hydrograph intervals = 291

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.093	0.000	0.093	0.093
1.000	0.197	0.196	0.196	0.198
1.500	0.313	0.196	0.312	0.314
2.000	0.440	0.196	0.439	0.441
2.500	0.580	0.196	0.579	0.581
3.000	0.732	0.196	0.731	0.733
3.500	0.897	0.196	0.896	0.898
4.000	1.075	4.639	1.059	1.091
4.500	1.267	6.480	1.245	1.289

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.0	2.04	3.06	4.08	Depth (Ft.)
0.083	0.10	0.00	0.000	O					0.00
0.167	0.18	0.00	0.001	O I					0.01
0.250	0.20	0.00	0.003	O I					0.01
0.333	0.25	0.00	0.004	O I					0.02
0.417	0.29	0.00	0.006	O I					0.03
0.500	0.30	0.00	0.008	O I					0.04
0.583	0.30	0.00	0.010	O I					0.05
0.667	0.30	0.00	0.012	O I					0.07
0.750	0.30	0.00	0.014	O I					0.08
0.833	0.35	0.00	0.017	O I					0.09
0.917	0.39	0.00	0.019	O I					0.10
1.000	0.40	0.00	0.022	O I					0.12
1.083	0.35	0.00	0.025	O I					0.13
1.167	0.31	0.00	0.027	O I					0.14
1.250	0.30	0.00	0.029	O I					0.16
1.333	0.30	0.00	0.031	O I					0.17
1.417	0.30	0.00	0.033	O I					0.18
1.500	0.30	0.00	0.035	O I					0.19
1.583	0.30	0.00	0.037	O I					0.20

1.667	0.30	0.00	0.039	0	I					0.21
1.750	0.30	0.00	0.041	0	I					0.22
1.833	0.35	0.00	0.044	0	I					0.23
1.917	0.39	0.00	0.046	0	I					0.25
2.000	0.40	0.00	0.049	0	I					0.26
2.083	0.40	0.00	0.052	0	I					0.28
2.167	0.40	0.00	0.054	0	I					0.29
2.250	0.40	0.00	0.057	0	I					0.31
2.333	0.40	0.00	0.060	0	I					0.32
2.417	0.40	0.00	0.063	0	I					0.34
2.500	0.40	0.00	0.066	0	I					0.35
2.583	0.45	0.00	0.069	0	I					0.37
2.667	0.49	0.00	0.072	0	I					0.39
2.750	0.50	0.00	0.075	0	I					0.40
2.833	0.50	0.00	0.079	0	I					0.42
2.917	0.50	0.00	0.082	0	I					0.44
3.000	0.50	0.00	0.086	0	I					0.46
3.083	0.50	0.00	0.089	0	I					0.48
3.167	0.50	0.00	0.093	0	I					0.50
3.250	0.50	0.01	0.096	0	I					0.51
3.333	0.50	0.01	0.099	0	I					0.53
3.417	0.50	0.02	0.103	0	I					0.55
3.500	0.50	0.02	0.106	0	I					0.56
3.583	0.50	0.03	0.109	0	I					0.58
3.667	0.50	0.04	0.113	0	I					0.59
3.750	0.50	0.04	0.116	0	I					0.61
3.833	0.55	0.05	0.119	0	I					0.63
3.917	0.59	0.06	0.123	0	I					0.64
4.000	0.60	0.06	0.126	0	I					0.66
4.083	0.60	0.07	0.130	0	I					0.68
4.167	0.60	0.08	0.134	0	I					0.70
4.250	0.60	0.08	0.137	0	I					0.71
4.333	0.66	0.09	0.141	0	I					0.73
4.417	0.70	0.10	0.145	0	I					0.75
4.500	0.70	0.11	0.149	0	I					0.77
4.583	0.70	0.11	0.153	0	I					0.79
4.667	0.70	0.12	0.157	0	I					0.81
4.750	0.70	0.13	0.161	0	I					0.83
4.833	0.76	0.14	0.165	0	I					0.85
4.917	0.80	0.14	0.170	0	I					0.87
5.000	0.80	0.15	0.174	0	I					0.89
5.083	0.70	0.16	0.178	0	I					0.91
5.167	0.62	0.17	0.182	0	I					0.93
5.250	0.61	0.17	0.185	0	I					0.94
5.333	0.66	0.18	0.188	0	I					0.96
5.417	0.70	0.19	0.191	0	I					0.97
5.500	0.70	0.19	0.195	0	I					0.99
5.583	0.76	0.20	0.199	0	I					1.01
5.667	0.80	0.20	0.203	0	I					1.02
5.750	0.80	0.20	0.207	0	I					1.04

5.833	0.80	0.20	0.211	0	I					1.06
5.917	0.80	0.20	0.215	0	I					1.08
6.000	0.80	0.20	0.219	0	I					1.10
6.083	0.86	0.20	0.224	0	I					1.11
6.167	0.90	0.20	0.228	0	I					1.13
6.250	0.90	0.20	0.233	0	I					1.16
6.333	0.91	0.20	0.238	0	I					1.18
6.417	0.91	0.20	0.243	0	I					1.20
6.500	0.91	0.20	0.248	0	I					1.22
6.583	0.96	0.20	0.253	0	I					1.24
6.667	1.00	0.20	0.258	0	I					1.26
6.750	1.00	0.20	0.264	0	I					1.29
6.833	1.01	0.20	0.269	0	I					1.31
6.917	1.01	0.20	0.275	0	I					1.34
7.000	1.01	0.20	0.281	0	I					1.36
7.083	1.01	0.20	0.286	0	I					1.38
7.167	1.01	0.20	0.292	0	I					1.41
7.250	1.01	0.20	0.297	0	I					1.43
7.333	1.06	0.20	0.303	0	I					1.46
7.417	1.10	0.20	0.309	0	I					1.48
7.500	1.10	0.20	0.315	0	I					1.51
7.583	1.16	0.20	0.322	0		I				1.53
7.667	1.20	0.20	0.328	0		I				1.56
7.750	1.21	0.20	0.335	0		I				1.59
7.833	1.26	0.20	0.343	0		I				1.62
7.917	1.30	0.20	0.350	0		I				1.65
8.000	1.31	0.20	0.358	0		I				1.68
8.083	1.45	0.20	0.366	0			I			1.71
8.167	1.55	0.20	0.375	0			I			1.74
8.250	1.57	0.20	0.384	0			I			1.78
8.333	1.57	0.20	0.394	0			I			1.82
8.417	1.58	0.20	0.403	0			I			1.85
8.500	1.58	0.20	0.413	0			I			1.89
8.583	1.64	0.20	0.422	0			I			1.93
8.667	1.70	0.20	0.433	0			I			1.97
8.750	1.71	0.20	0.443	0			I			2.01
8.833	1.78	0.20	0.454	0			I			2.05
8.917	1.83	0.20	0.465	0			I			2.09
9.000	1.84	0.20	0.476	0			I			2.13
9.083	1.97	0.20	0.488	0			I			2.17
9.167	2.08	0.20	0.500	0			I			2.22
9.250	2.10	0.20	0.513	0			I			2.26
9.333	2.17	0.20	0.527	0			I			2.31
9.417	2.22	0.20	0.540	0			I			2.36
9.500	2.23	0.20	0.554	0			I			2.41
9.583	2.30	0.20	0.569	0				I		2.46
9.667	2.35	0.20	0.583	0				I		2.51
9.750	2.36	0.20	0.598	0				I		2.56
9.833	2.43	0.20	0.613	0					I	2.61
9.917	2.48	0.20	0.629	0					I	2.66

10.000	2.49	0.20	0.645	0				I				2.71
10.083	2.04	0.20	0.659	0				I				2.76
10.167	1.69	0.20	0.670	0				I				2.80
10.250	1.63	0.20	0.680	0				I				2.83
10.333	1.61	0.20	0.690	0				I				2.86
10.417	1.61	0.20	0.700	0				I				2.89
10.500	1.61	0.20	0.710	0				I				2.93
10.583	1.94	0.20	0.721	0				I				2.96
10.667	2.20	0.20	0.734	0					I			3.00
10.750	2.24	0.20	0.747	0					I			3.05
10.833	2.26	0.20	0.762	0					I			3.09
10.917	2.26	0.20	0.776	0					I			3.13
11.000	2.26	0.20	0.790	0					I			3.18
11.083	2.20	0.20	0.804	0					I			3.22
11.167	2.15	0.20	0.818	0					I			3.26
11.250	2.14	0.20	0.831	0					I			3.30
11.333	2.14	0.20	0.844	0					I			3.34
11.417	2.14	0.20	0.858	0					I			3.38
11.500	2.14	0.20	0.871	0					I			3.42
11.583	2.01	0.20	0.884	0					I			3.46
11.667	1.91	0.20	0.896	0					I			3.50
11.750	1.89	0.45	0.907	0	0				I			3.53
11.833	1.96	0.68	0.916		0				I			3.55
11.917	2.01	0.89	0.925		0				I			3.58
12.000	2.02	1.07	0.932		0				I			3.60
12.083	2.48	1.25	0.939		0				I			3.62
12.167	2.84	1.48	0.948		0				I			3.64
12.250	2.90	1.70	0.957		0				I			3.67
12.333	2.98	1.89	0.965		0				I			3.69
12.417	3.04	2.07	0.972		0				I			3.71
12.500	3.05	2.22	0.978		0				I			3.73
12.583	3.18	2.36	0.984		0				I			3.74
12.667	3.28	2.50	0.989		0				I			3.76
12.750	3.30	2.63	0.994		0				I			3.77
12.833	3.37	2.74	0.999		0				I			3.79
12.917	3.43	2.84	1.003		0				I			3.80
13.000	3.44	2.94	1.007		0				I			3.81
13.083	3.77	3.04	1.011		0				I			3.82
13.167	4.02	3.18	1.016		0				I			3.84
13.250	4.07	3.31	1.022		0				I			3.85
13.333	4.08	3.43	1.027		0				I			3.86
13.417	4.08	3.54	1.031		0				I			3.88
13.500	4.08	3.62	1.034		0				I			3.89
13.583	3.36	3.64	1.035		0				I	0		3.89
13.667	2.81	3.55	1.031		0				I	0		3.88
13.750	2.71	3.43	1.026		0				I	0		3.86
13.833	2.69	3.31	1.022		0				I	0		3.85
13.917	2.69	3.21	1.018		0				I	0		3.84
14.000	2.69	3.13	1.014		0				I	0		3.83
14.083	2.95	3.08	1.013		0				I	0		3.82

14.167	3.16	3.08	1.012				0	3.82
14.250	3.19	3.09	1.013				0I	3.83
14.333	3.14	3.10	1.013				0	3.83
14.417	3.09	3.10	1.014				0	3.83
14.500	3.08	3.10	1.013				0	3.83
14.583	3.08	3.10	1.013				0	3.83
14.667	3.08	3.10	1.013				0	3.83
14.750	3.08	3.09	1.013				0	3.83
14.833	3.02	3.09	1.013				IO	3.83
14.917	2.97	3.07	1.012				IO	3.82
15.000	2.96	3.05	1.012				0	3.82
15.083	2.89	3.03	1.011				IO	3.82
15.167	2.84	3.01	1.010				IO	3.82
15.250	2.84	2.98	1.009				IO	3.81
15.333	2.77	2.95	1.007				I 0	3.81
15.417	2.72	2.92	1.006				IO	3.81
15.500	2.71	2.89	1.005				IO	3.80
15.583	2.45	2.84	1.003				I 0	3.80
15.667	2.25	2.76	1.000				I 0	3.79
15.750	2.21	2.68	0.996				I 0	3.78
15.833	2.21	2.60	0.993				I 0	3.77
15.917	2.21	2.54	0.991				I 0	3.76
16.000	2.21	2.49	0.989				I 0	3.76
16.083	1.28	2.37	0.984		I		0	3.74
16.167	0.56	2.14	0.975	I			0	3.72
16.250	0.44	1.88	0.964	I			0	3.69
16.333	0.40	1.65	0.955	I		0		3.66
16.417	0.40	1.45	0.947	I		0		3.64
16.500	0.40	1.29	0.941	I		0		3.62
16.583	0.35	1.14	0.935	I		0		3.61
16.667	0.31	1.01	0.930	I		0		3.59
16.750	0.30	0.90	0.925	I		0		3.58
16.833	0.30	0.81	0.921	I		0		3.57
16.917	0.30	0.73	0.918	I		0		3.56
17.000	0.30	0.66	0.916	I		0		3.55
17.083	0.41	0.61	0.914	IO				3.55
17.167	0.49	0.58	0.913	IO				3.54
17.250	0.50	0.57	0.912	IO				3.54
17.333	0.50	0.56	0.912	IO				3.54
17.417	0.50	0.55	0.911	IO				3.54
17.500	0.50	0.54	0.911	IO				3.54
17.583	0.50	0.54	0.911	IO				3.54
17.667	0.50	0.53	0.910	IO				3.54
17.750	0.50	0.53	0.910	IO				3.54
17.833	0.45	0.52	0.910	IO				3.54
17.917	0.41	0.51	0.909	0				3.53
18.000	0.40	0.49	0.909	0				3.53
18.083	0.40	0.48	0.908	0				3.53
18.167	0.40	0.46	0.908	0				3.53
18.250	0.40	0.45	0.907	0				3.53

18.333	0.40	0.45	0.907	0					3.53
18.417	0.40	0.44	0.907	0					3.53
18.500	0.40	0.43	0.907	0					3.53
18.583	0.35	0.42	0.906	IO					3.53
18.667	0.31	0.41	0.906	IO					3.52
18.750	0.30	0.39	0.905	IO					3.52
18.833	0.25	0.37	0.904	IO					3.52
18.917	0.21	0.35	0.903	IO					3.52
19.000	0.20	0.33	0.902	IO					3.51
19.083	0.25	0.31	0.902	IO					3.51
19.167	0.29	0.31	0.901	0					3.51
19.250	0.30	0.31	0.901	0					3.51
19.333	0.35	0.31	0.901	0					3.51
19.417	0.39	0.32	0.902	OI					3.51
19.500	0.40	0.33	0.902	OI					3.52
19.583	0.35	0.34	0.903	0					3.52
19.667	0.31	0.34	0.903	0					3.52
19.750	0.30	0.33	0.902	0					3.52
19.833	0.25	0.32	0.902	IO					3.51
19.917	0.21	0.31	0.902	IO					3.51
20.000	0.20	0.29	0.901	IO					3.51
20.083	0.25	0.28	0.900	IO					3.51
20.167	0.29	0.28	0.900	0					3.51
20.250	0.30	0.28	0.900	0					3.51
20.333	0.30	0.29	0.901	0					3.51
20.417	0.30	0.29	0.901	0					3.51
20.500	0.30	0.29	0.901	0					3.51
20.583	0.30	0.29	0.901	0					3.51
20.667	0.30	0.29	0.901	0					3.51
20.750	0.30	0.30	0.901	0					3.51
20.833	0.25	0.29	0.901	IO					3.51
20.917	0.21	0.28	0.900	IO					3.51
21.000	0.20	0.27	0.900	IO					3.51
21.083	0.25	0.26	0.900	IO					3.51
21.167	0.29	0.27	0.900	0					3.51
21.250	0.30	0.27	0.900	0					3.51
21.333	0.25	0.27	0.900	IO					3.51
21.417	0.21	0.26	0.900	IO					3.51
21.500	0.20	0.26	0.899	IO					3.51
21.583	0.25	0.25	0.899	0					3.51
21.667	0.29	0.25	0.899	OI					3.51
21.750	0.30	0.26	0.900	0					3.51
21.833	0.25	0.26	0.900	IO					3.51
21.917	0.21	0.26	0.899	IO					3.51
22.000	0.20	0.25	0.899	0					3.51
22.083	0.25	0.25	0.899	0					3.51
22.167	0.29	0.25	0.899	OI					3.51
22.250	0.30	0.26	0.899	0					3.51
22.333	0.25	0.26	0.900	IO					3.51
22.417	0.21	0.26	0.899	IO					3.51

22.500	0.20	0.25	0.899	0					3.51
22.583	0.20	0.24	0.899	0					3.50
22.667	0.20	0.23	0.899	0					3.50
22.750	0.20	0.23	0.898	0					3.50
22.833	0.20	0.22	0.898	0					3.50
22.917	0.20	0.22	0.898	0					3.50
23.000	0.20	0.22	0.898	0					3.50
23.083	0.20	0.22	0.898	0					3.50
23.167	0.20	0.21	0.898	0					3.50
23.250	0.20	0.21	0.898	0					3.50
23.333	0.20	0.21	0.898	0					3.50
23.417	0.20	0.21	0.897	0					3.50
23.500	0.20	0.21	0.897	0					3.50
23.583	0.20	0.21	0.897	0					3.50
23.667	0.20	0.21	0.897	0					3.50
23.750	0.20	0.20	0.897	0					3.50
23.833	0.20	0.20	0.897	0					3.50
23.917	0.20	0.20	0.897	0					3.50
24.000	0.20	0.20	0.897	0					3.50
24.083	0.10	0.20	0.897	IO					3.50
24.167	0.02	0.20	0.896	IO					3.50
24.250	0.00	0.20	0.895	IO					3.49
24.333	0.00	0.20	0.893	IO					3.49
24.417	0.00	0.20	0.892	IO					3.48
24.500	0.00	0.20	0.891	IO					3.48
24.583	0.00	0.20	0.889	IO					3.48
24.667	0.00	0.20	0.888	IO					3.47
24.750	0.00	0.20	0.887	IO					3.47
24.833	0.00	0.20	0.885	IO					3.46
24.917	0.00	0.20	0.884	IO					3.46
25.000	0.00	0.20	0.883	IO					3.46
25.083	0.00	0.20	0.881	IO					3.45
25.167	0.00	0.20	0.880	IO					3.45
25.250	0.00	0.20	0.878	IO					3.44
25.333	0.00	0.20	0.877	IO					3.44
25.417	0.00	0.20	0.876	IO					3.44
25.500	0.00	0.20	0.874	IO					3.43
25.583	0.00	0.20	0.873	IO					3.43
25.667	0.00	0.20	0.872	IO					3.42
25.750	0.00	0.20	0.870	IO					3.42
25.833	0.00	0.20	0.869	IO					3.42
25.917	0.00	0.20	0.868	IO					3.41
26.000	0.00	0.20	0.866	IO					3.41
26.083	0.00	0.20	0.865	IO					3.40
26.167	0.00	0.20	0.864	IO					3.40
26.250	0.00	0.20	0.862	IO					3.39
26.333	0.00	0.20	0.861	IO					3.39
26.417	0.00	0.20	0.860	IO					3.39
26.500	0.00	0.20	0.858	IO					3.38
26.583	0.00	0.20	0.857	IO					3.38

26.667	0.00	0.20	0.855	IO					3.37
26.750	0.00	0.20	0.854	IO					3.37
26.833	0.00	0.20	0.853	IO					3.37
26.917	0.00	0.20	0.851	IO					3.36
27.000	0.00	0.20	0.850	IO					3.36
27.083	0.00	0.20	0.849	IO					3.35
27.167	0.00	0.20	0.847	IO					3.35
27.250	0.00	0.20	0.846	IO					3.35
27.333	0.00	0.20	0.845	IO					3.34
27.417	0.00	0.20	0.843	IO					3.34
27.500	0.00	0.20	0.842	IO					3.33
27.583	0.00	0.20	0.841	IO					3.33
27.667	0.00	0.20	0.839	IO					3.33
27.750	0.00	0.20	0.838	IO					3.32
27.833	0.00	0.20	0.837	IO					3.32
27.917	0.00	0.20	0.835	IO					3.31
28.000	0.00	0.20	0.834	IO					3.31
28.083	0.00	0.20	0.833	IO					3.30
28.167	0.00	0.20	0.831	IO					3.30
28.250	0.00	0.20	0.830	IO					3.30
28.333	0.00	0.20	0.828	IO					3.29
28.417	0.00	0.20	0.827	IO					3.29
28.500	0.00	0.20	0.826	IO					3.28
28.583	0.00	0.20	0.824	IO					3.28
28.667	0.00	0.20	0.823	IO					3.28
28.750	0.00	0.20	0.822	IO					3.27
28.833	0.00	0.20	0.820	IO					3.27
28.917	0.00	0.20	0.819	IO					3.26
29.000	0.00	0.20	0.818	IO					3.26
29.083	0.00	0.20	0.816	IO					3.26
29.167	0.00	0.20	0.815	IO					3.25
29.250	0.00	0.20	0.814	IO					3.25
29.333	0.00	0.20	0.812	IO					3.24
29.417	0.00	0.20	0.811	IO					3.24
29.500	0.00	0.20	0.810	IO					3.23
29.583	0.00	0.20	0.808	IO					3.23
29.667	0.00	0.20	0.807	IO					3.23
29.750	0.00	0.20	0.805	IO					3.22
29.833	0.00	0.20	0.804	IO					3.22
29.917	0.00	0.20	0.803	IO					3.21
30.000	0.00	0.20	0.801	IO					3.21
30.083	0.00	0.20	0.800	IO					3.21
30.167	0.00	0.20	0.799	IO					3.20
30.250	0.00	0.20	0.797	IO					3.20
30.333	0.00	0.20	0.796	IO					3.19
30.417	0.00	0.20	0.795	IO					3.19
30.500	0.00	0.20	0.793	IO					3.19
30.583	0.00	0.20	0.792	IO					3.18
30.667	0.00	0.20	0.791	IO					3.18
30.750	0.00	0.20	0.789	IO					3.17

30.833	0.00	0.20	0.788	IO					3.17
30.917	0.00	0.20	0.787	IO					3.17
31.000	0.00	0.20	0.785	IO					3.16
31.083	0.00	0.20	0.784	IO					3.16
31.167	0.00	0.20	0.782	IO					3.15
31.250	0.00	0.20	0.781	IO					3.15
31.333	0.00	0.20	0.780	IO					3.14
31.417	0.00	0.20	0.778	IO					3.14
31.500	0.00	0.20	0.777	IO					3.14
31.583	0.00	0.20	0.776	IO					3.13
31.667	0.00	0.20	0.774	IO					3.13
31.750	0.00	0.20	0.773	IO					3.12
31.833	0.00	0.20	0.772	IO					3.12
31.917	0.00	0.20	0.770	IO					3.12
32.000	0.00	0.20	0.769	IO					3.11
32.083	0.00	0.20	0.768	IO					3.11
32.167	0.00	0.20	0.766	IO					3.10
32.250	0.00	0.20	0.765	IO					3.10
32.333	0.00	0.20	0.764	IO					3.10
32.417	0.00	0.20	0.762	IO					3.09
32.500	0.00	0.20	0.761	IO					3.09
32.583	0.00	0.20	0.759	IO					3.08
32.667	0.00	0.20	0.758	IO					3.08
32.750	0.00	0.20	0.757	IO					3.08
32.833	0.00	0.20	0.755	IO					3.07
32.917	0.00	0.20	0.754	IO					3.07
33.000	0.00	0.20	0.753	IO					3.06
33.083	0.00	0.20	0.751	IO					3.06
33.167	0.00	0.20	0.750	IO					3.05
33.250	0.00	0.20	0.749	IO					3.05
33.333	0.00	0.20	0.747	IO					3.05
33.417	0.00	0.20	0.746	IO					3.04
33.500	0.00	0.20	0.745	IO					3.04
33.583	0.00	0.20	0.743	IO					3.03
33.667	0.00	0.20	0.742	IO					3.03
33.750	0.00	0.20	0.741	IO					3.03
33.833	0.00	0.20	0.739	IO					3.02
33.917	0.00	0.20	0.738	IO					3.02
34.000	0.00	0.20	0.736	IO					3.01
34.083	0.00	0.20	0.735	IO					3.01
34.167	0.00	0.20	0.734	IO					3.01
34.250	0.00	0.20	0.732	IO					3.00
34.333	0.00	0.20	0.731	IO					3.00
34.417	0.00	0.20	0.730	IO					2.99
34.500	0.00	0.20	0.728	IO					2.99
34.583	0.00	0.20	0.727	IO					2.98
34.667	0.00	0.20	0.726	IO					2.98
34.750	0.00	0.20	0.724	IO					2.97
34.833	0.00	0.20	0.723	IO					2.97
34.917	0.00	0.20	0.722	IO					2.97

35.000	0.00	0.20	0.720	IO					2.96
35.083	0.00	0.20	0.719	IO					2.96
35.167	0.00	0.20	0.718	IO					2.95
35.250	0.00	0.20	0.716	IO					2.95
35.333	0.00	0.20	0.715	IO					2.94
35.417	0.00	0.20	0.714	IO					2.94
35.500	0.00	0.20	0.712	IO					2.93
35.583	0.00	0.20	0.711	IO					2.93
35.667	0.00	0.20	0.709	IO					2.93
35.750	0.00	0.20	0.708	IO					2.92
35.833	0.00	0.20	0.707	IO					2.92
35.917	0.00	0.20	0.705	IO					2.91
36.000	0.00	0.20	0.704	IO					2.91
36.083	0.00	0.20	0.703	IO					2.90
36.167	0.00	0.20	0.701	IO					2.90
36.250	0.00	0.20	0.700	IO					2.89
36.333	0.00	0.20	0.699	IO					2.89
36.417	0.00	0.20	0.697	IO					2.89
36.500	0.00	0.20	0.696	IO					2.88
36.583	0.00	0.20	0.695	IO					2.88
36.667	0.00	0.20	0.693	IO					2.87
36.750	0.00	0.20	0.692	IO					2.87
36.833	0.00	0.20	0.691	IO					2.86
36.917	0.00	0.20	0.689	IO					2.86
37.000	0.00	0.20	0.688	IO					2.85
37.083	0.00	0.20	0.686	IO					2.85
37.167	0.00	0.20	0.685	IO					2.85
37.250	0.00	0.20	0.684	IO					2.84
37.333	0.00	0.20	0.682	IO					2.84
37.417	0.00	0.20	0.681	IO					2.83
37.500	0.00	0.20	0.680	IO					2.83
37.583	0.00	0.20	0.678	IO					2.82
37.667	0.00	0.20	0.677	IO					2.82
37.750	0.00	0.20	0.676	IO					2.81
37.833	0.00	0.20	0.674	IO					2.81
37.917	0.00	0.20	0.673	IO					2.81
38.000	0.00	0.20	0.672	IO					2.80
38.083	0.00	0.20	0.670	IO					2.80
38.167	0.00	0.20	0.669	IO					2.79
38.250	0.00	0.20	0.668	IO					2.79
38.333	0.00	0.20	0.666	IO					2.78
38.417	0.00	0.20	0.665	IO					2.78
38.500	0.00	0.20	0.663	IO					2.77
38.583	0.00	0.20	0.662	IO					2.77
38.667	0.00	0.20	0.661	IO					2.77
38.750	0.00	0.20	0.659	IO					2.76
38.833	0.00	0.20	0.658	IO					2.76
38.917	0.00	0.20	0.657	IO					2.75
39.000	0.00	0.20	0.655	IO					2.75
39.083	0.00	0.20	0.654	IO					2.74

39.167	0.00	0.20	0.653	IO					2.74
39.250	0.00	0.20	0.651	IO					2.73
39.333	0.00	0.20	0.650	IO					2.73
39.417	0.00	0.20	0.649	IO					2.73
39.500	0.00	0.20	0.647	IO					2.72
39.583	0.00	0.20	0.646	IO					2.72
39.667	0.00	0.20	0.645	IO					2.71
39.750	0.00	0.20	0.643	IO					2.71
39.833	0.00	0.20	0.642	IO					2.70
39.917	0.00	0.20	0.640	IO					2.70
40.000	0.00	0.20	0.639	IO					2.69
40.083	0.00	0.20	0.638	IO					2.69
40.167	0.00	0.20	0.636	IO					2.69
40.250	0.00	0.20	0.635	IO					2.68
40.333	0.00	0.20	0.634	IO					2.68
40.417	0.00	0.20	0.632	IO					2.67
40.500	0.00	0.20	0.631	IO					2.67
40.583	0.00	0.20	0.630	IO					2.66
40.667	0.00	0.20	0.628	IO					2.66
40.750	0.00	0.20	0.627	IO					2.65
40.833	0.00	0.20	0.626	IO					2.65
40.917	0.00	0.20	0.624	IO					2.65
41.000	0.00	0.20	0.623	IO					2.64
41.083	0.00	0.20	0.622	IO					2.64
41.167	0.00	0.20	0.620	IO					2.63
41.250	0.00	0.20	0.619	IO					2.63
41.333	0.00	0.20	0.617	IO					2.62
41.417	0.00	0.20	0.616	IO					2.62
41.500	0.00	0.20	0.615	IO					2.61
41.583	0.00	0.20	0.613	IO					2.61
41.667	0.00	0.20	0.612	IO					2.61
41.750	0.00	0.20	0.611	IO					2.60
41.833	0.00	0.20	0.609	IO					2.60
41.917	0.00	0.20	0.608	IO					2.59
42.000	0.00	0.20	0.607	IO					2.59
42.083	0.00	0.20	0.605	IO					2.58
42.167	0.00	0.20	0.604	IO					2.58
42.250	0.00	0.20	0.603	IO					2.57
42.333	0.00	0.20	0.601	IO					2.57
42.417	0.00	0.20	0.600	IO					2.57
42.500	0.00	0.20	0.599	IO					2.56
42.583	0.00	0.20	0.597	IO					2.56
42.667	0.00	0.20	0.596	IO					2.55
42.750	0.00	0.20	0.595	IO					2.55
42.833	0.00	0.20	0.593	IO					2.54
42.917	0.00	0.20	0.592	IO					2.54
43.000	0.00	0.20	0.590	IO					2.53
43.083	0.00	0.20	0.589	IO					2.53
43.167	0.00	0.20	0.588	IO					2.53
43.250	0.00	0.20	0.586	IO					2.52

43.333	0.00	0.20	0.585	IO					2.52
43.417	0.00	0.20	0.584	IO					2.51
43.500	0.00	0.20	0.582	IO					2.51
43.583	0.00	0.20	0.581	IO					2.50
43.667	0.00	0.20	0.580	IO					2.50
43.750	0.00	0.20	0.578	IO					2.49
43.833	0.00	0.20	0.577	IO					2.49
43.917	0.00	0.20	0.576	IO					2.48
44.000	0.00	0.20	0.574	IO					2.48
44.083	0.00	0.20	0.573	IO					2.47
44.167	0.00	0.20	0.572	IO					2.47
44.250	0.00	0.20	0.570	IO					2.46
44.333	0.00	0.20	0.569	IO					2.46
44.417	0.00	0.20	0.567	IO					2.46
44.500	0.00	0.20	0.566	IO					2.45
44.583	0.00	0.20	0.565	IO					2.45
44.667	0.00	0.20	0.563	IO					2.44
44.750	0.00	0.20	0.562	IO					2.44
44.833	0.00	0.20	0.561	IO					2.43
44.917	0.00	0.20	0.559	IO					2.43
45.000	0.00	0.20	0.558	IO					2.42
45.083	0.00	0.20	0.557	IO					2.42
45.167	0.00	0.20	0.555	IO					2.41
45.250	0.00	0.20	0.554	IO					2.41
45.333	0.00	0.20	0.553	IO					2.40
45.417	0.00	0.20	0.551	IO					2.40
45.500	0.00	0.20	0.550	IO					2.39
45.583	0.00	0.20	0.549	IO					2.39
45.667	0.00	0.20	0.547	IO					2.38
45.750	0.00	0.20	0.546	IO					2.38
45.833	0.00	0.20	0.544	IO					2.37
45.917	0.00	0.20	0.543	IO					2.37
46.000	0.00	0.20	0.542	IO					2.36
46.083	0.00	0.20	0.540	IO					2.36
46.167	0.00	0.20	0.539	IO					2.35
46.250	0.00	0.20	0.538	IO					2.35
46.333	0.00	0.20	0.536	IO					2.34
46.417	0.00	0.20	0.535	IO					2.34
46.500	0.00	0.20	0.534	IO					2.33
46.583	0.00	0.20	0.532	IO					2.33
46.667	0.00	0.20	0.531	IO					2.32
46.750	0.00	0.20	0.530	IO					2.32
46.833	0.00	0.20	0.528	IO					2.32
46.917	0.00	0.20	0.527	IO					2.31
47.000	0.00	0.20	0.526	IO					2.31
47.083	0.00	0.20	0.524	IO					2.30
47.167	0.00	0.20	0.523	IO					2.30
47.250	0.00	0.20	0.521	IO					2.29
47.333	0.00	0.20	0.520	IO					2.29
47.417	0.00	0.20	0.519	IO					2.28

47.500	0.00	0.20	0.517	IO					2.28
47.583	0.00	0.20	0.516	IO					2.27
47.667	0.00	0.20	0.515	IO					2.27
47.750	0.00	0.20	0.513	IO					2.26
47.833	0.00	0.20	0.512	IO					2.26
47.917	0.00	0.20	0.511	IO					2.25
48.000	0.00	0.20	0.509	IO					2.25
48.083	0.00	0.20	0.508	IO					2.24
48.167	0.00	0.20	0.507	IO					2.24
48.250	0.00	0.20	0.505	IO					2.23
48.333	0.00	0.20	0.504	IO					2.23
48.417	0.00	0.20	0.503	IO					2.22
48.500	0.00	0.20	0.501	IO					2.22
48.583	0.00	0.20	0.500	IO					2.21
48.667	0.00	0.20	0.498	IO					2.21
48.750	0.00	0.20	0.497	IO					2.20
48.833	0.00	0.20	0.496	IO					2.20
48.917	0.00	0.20	0.494	IO					2.19
49.000	0.00	0.20	0.493	IO					2.19
49.083	0.00	0.20	0.492	IO					2.18
49.167	0.00	0.20	0.490	IO					2.18
49.250	0.00	0.20	0.489	IO					2.18
49.333	0.00	0.20	0.488	IO					2.17
49.417	0.00	0.20	0.486	IO					2.17
49.500	0.00	0.20	0.485	IO					2.16
49.583	0.00	0.20	0.484	IO					2.16
49.667	0.00	0.20	0.482	IO					2.15
49.750	0.00	0.20	0.481	IO					2.15
49.833	0.00	0.20	0.480	IO					2.14
49.917	0.00	0.20	0.478	IO					2.14
50.000	0.00	0.20	0.477	IO					2.13
50.083	0.00	0.20	0.476	IO					2.13
50.167	0.00	0.20	0.474	IO					2.12
50.250	0.00	0.20	0.473	IO					2.12
50.333	0.00	0.20	0.471	IO					2.11
50.417	0.00	0.20	0.470	IO					2.11
50.500	0.00	0.20	0.469	IO					2.10
50.583	0.00	0.20	0.467	IO					2.10
50.667	0.00	0.20	0.466	IO					2.09
50.750	0.00	0.20	0.465	IO					2.09
50.833	0.00	0.20	0.463	IO					2.08
50.917	0.00	0.20	0.462	IO					2.08
51.000	0.00	0.20	0.461	IO					2.07
51.083	0.00	0.20	0.459	IO					2.07
51.167	0.00	0.20	0.458	IO					2.06
51.250	0.00	0.20	0.457	IO					2.06
51.333	0.00	0.20	0.455	IO					2.05
51.417	0.00	0.20	0.454	IO					2.05
51.500	0.00	0.20	0.453	IO					2.04
51.583	0.00	0.20	0.451	IO					2.04

51.667	0.00	0.20	0.450	IO					2.04
51.750	0.00	0.20	0.448	IO					2.03
51.833	0.00	0.20	0.447	IO					2.03
51.917	0.00	0.20	0.446	IO					2.02
52.000	0.00	0.20	0.444	IO					2.02
52.083	0.00	0.20	0.443	IO					2.01
52.167	0.00	0.20	0.442	IO					2.01
52.250	0.00	0.20	0.440	IO					2.00
52.333	0.00	0.20	0.439	IO					2.00
52.417	0.00	0.20	0.438	IO					1.99
52.500	0.00	0.20	0.436	IO					1.99
52.583	0.00	0.20	0.435	IO					1.98
52.667	0.00	0.20	0.434	IO					1.97
52.750	0.00	0.20	0.432	IO					1.97
52.833	0.00	0.20	0.431	IO					1.96
52.917	0.00	0.20	0.430	IO					1.96
53.000	0.00	0.20	0.428	IO					1.95
53.083	0.00	0.20	0.427	IO					1.95
53.167	0.00	0.20	0.425	IO					1.94
53.250	0.00	0.20	0.424	IO					1.94
53.333	0.00	0.20	0.423	IO					1.93
53.417	0.00	0.20	0.421	IO					1.93
53.500	0.00	0.20	0.420	IO					1.92
53.583	0.00	0.20	0.419	IO					1.92
53.667	0.00	0.20	0.417	IO					1.91
53.750	0.00	0.20	0.416	IO					1.91
53.833	0.00	0.20	0.415	IO					1.90
53.917	0.00	0.20	0.413	IO					1.89
54.000	0.00	0.20	0.412	IO					1.89
54.083	0.00	0.20	0.411	IO					1.88
54.167	0.00	0.20	0.409	IO					1.88
54.250	0.00	0.20	0.408	IO					1.87
54.333	0.00	0.20	0.407	IO					1.87
54.417	0.00	0.20	0.405	IO					1.86
54.500	0.00	0.20	0.404	IO					1.86
54.583	0.00	0.20	0.402	IO					1.85
54.667	0.00	0.20	0.401	IO					1.85
54.750	0.00	0.20	0.400	IO					1.84
54.833	0.00	0.20	0.398	IO					1.84
54.917	0.00	0.20	0.397	IO					1.83
55.000	0.00	0.20	0.396	IO					1.83
55.083	0.00	0.20	0.394	IO					1.82
55.167	0.00	0.20	0.393	IO					1.82
55.250	0.00	0.20	0.392	IO					1.81
55.333	0.00	0.20	0.390	IO					1.80
55.417	0.00	0.20	0.389	IO					1.80
55.500	0.00	0.20	0.388	IO					1.79
55.583	0.00	0.20	0.386	IO					1.79
55.667	0.00	0.20	0.385	IO					1.78
55.750	0.00	0.20	0.384	IO					1.78

55.833	0.00	0.20	0.382	IO					1.77
55.917	0.00	0.20	0.381	IO					1.77
56.000	0.00	0.20	0.379	IO					1.76
56.083	0.00	0.20	0.378	IO					1.76
56.167	0.00	0.20	0.377	IO					1.75
56.250	0.00	0.20	0.375	IO					1.75
56.333	0.00	0.20	0.374	IO					1.74
56.417	0.00	0.20	0.373	IO					1.74
56.500	0.00	0.20	0.371	IO					1.73
56.583	0.00	0.20	0.370	IO					1.72
56.667	0.00	0.20	0.369	IO					1.72
56.750	0.00	0.20	0.367	IO					1.71
56.833	0.00	0.20	0.366	IO					1.71
56.917	0.00	0.20	0.365	IO					1.70
57.000	0.00	0.20	0.363	IO					1.70
57.083	0.00	0.20	0.362	IO					1.69
57.167	0.00	0.20	0.361	IO					1.69
57.250	0.00	0.20	0.359	IO					1.68
57.333	0.00	0.20	0.358	IO					1.68
57.417	0.00	0.20	0.357	IO					1.67
57.500	0.00	0.20	0.355	IO					1.67
57.583	0.00	0.20	0.354	IO					1.66
57.667	0.00	0.20	0.352	IO					1.66
57.750	0.00	0.20	0.351	IO					1.65
57.833	0.00	0.20	0.350	IO					1.64
57.917	0.00	0.20	0.348	IO					1.64
58.000	0.00	0.20	0.347	IO					1.63
58.083	0.00	0.20	0.346	IO					1.63
58.167	0.00	0.20	0.344	IO					1.62
58.250	0.00	0.20	0.343	IO					1.62
58.333	0.00	0.20	0.342	IO					1.61
58.417	0.00	0.20	0.340	IO					1.61
58.500	0.00	0.20	0.339	IO					1.60
58.583	0.00	0.20	0.338	IO					1.60
58.667	0.00	0.20	0.336	IO					1.59
58.750	0.00	0.20	0.335	IO					1.59
58.833	0.00	0.20	0.334	IO					1.58
58.917	0.00	0.20	0.332	IO					1.58
59.000	0.00	0.20	0.331	IO					1.57
59.083	0.00	0.20	0.329	IO					1.56
59.167	0.00	0.20	0.328	IO					1.56
59.250	0.00	0.20	0.327	IO					1.55
59.333	0.00	0.20	0.325	IO					1.55
59.417	0.00	0.20	0.324	IO					1.54
59.500	0.00	0.20	0.323	IO					1.54
59.583	0.00	0.20	0.321	IO					1.53
59.667	0.00	0.20	0.320	IO					1.53
59.750	0.00	0.20	0.319	IO					1.52
59.833	0.00	0.20	0.317	IO					1.52
59.917	0.00	0.20	0.316	IO					1.51

60.000	0.00	0.20	0.315	IO					1.51
60.083	0.00	0.20	0.313	IO					1.50
60.167	0.00	0.20	0.312	IO					1.50
60.250	0.00	0.20	0.311	IO					1.49
60.333	0.00	0.20	0.309	IO					1.48
60.417	0.00	0.20	0.308	IO					1.48
60.500	0.00	0.20	0.306	IO					1.47
60.583	0.00	0.20	0.305	IO					1.47
60.667	0.00	0.20	0.304	IO					1.46
60.750	0.00	0.20	0.302	IO					1.45
60.833	0.00	0.20	0.301	IO					1.45
60.917	0.00	0.20	0.300	IO					1.44
61.000	0.00	0.20	0.298	IO					1.44
61.083	0.00	0.20	0.297	IO					1.43
61.167	0.00	0.20	0.296	IO					1.43
61.250	0.00	0.20	0.294	IO					1.42
61.333	0.00	0.20	0.293	IO					1.41
61.417	0.00	0.20	0.292	IO					1.41
61.500	0.00	0.20	0.290	IO					1.40
61.583	0.00	0.20	0.289	IO					1.40
61.667	0.00	0.20	0.288	IO					1.39
61.750	0.00	0.20	0.286	IO					1.38
61.833	0.00	0.20	0.285	IO					1.38
61.917	0.00	0.20	0.283	IO					1.37
62.000	0.00	0.20	0.282	IO					1.37
62.083	0.00	0.20	0.281	IO					1.36
62.167	0.00	0.20	0.279	IO					1.36
62.250	0.00	0.20	0.278	IO					1.35
62.333	0.00	0.20	0.277	IO					1.34
62.417	0.00	0.20	0.275	IO					1.34
62.500	0.00	0.20	0.274	IO					1.33
62.583	0.00	0.20	0.273	IO					1.33
62.667	0.00	0.20	0.271	IO					1.32
62.750	0.00	0.20	0.270	IO					1.31
62.833	0.00	0.20	0.269	IO					1.31
62.917	0.00	0.20	0.267	IO					1.30
63.000	0.00	0.20	0.266	IO					1.30
63.083	0.00	0.20	0.265	IO					1.29
63.167	0.00	0.20	0.263	IO					1.29
63.250	0.00	0.20	0.262	IO					1.28
63.333	0.00	0.20	0.260	IO					1.27
63.417	0.00	0.20	0.259	IO					1.27
63.500	0.00	0.20	0.258	IO					1.26
63.583	0.00	0.20	0.256	IO					1.26
63.667	0.00	0.20	0.255	IO					1.25
63.750	0.00	0.20	0.254	IO					1.24
63.833	0.00	0.20	0.252	IO					1.24
63.917	0.00	0.20	0.251	IO					1.23
64.000	0.00	0.20	0.250	IO					1.23
64.083	0.00	0.20	0.248	IO					1.22

64.167	0.00	0.20	0.247	IO					1.22
64.250	0.00	0.20	0.246	IO					1.21
64.333	0.00	0.20	0.244	IO					1.20
64.417	0.00	0.20	0.243	IO					1.20
64.500	0.00	0.20	0.242	IO					1.19
64.583	0.00	0.20	0.240	IO					1.19
64.667	0.00	0.20	0.239	IO					1.18
64.750	0.00	0.20	0.238	IO					1.17
64.833	0.00	0.20	0.236	IO					1.17
64.917	0.00	0.20	0.235	IO					1.16
65.000	0.00	0.20	0.233	IO					1.16
65.083	0.00	0.20	0.232	IO					1.15
65.167	0.00	0.20	0.231	IO					1.15
65.250	0.00	0.20	0.229	IO					1.14
65.333	0.00	0.20	0.228	IO					1.13
65.417	0.00	0.20	0.227	IO					1.13
65.500	0.00	0.20	0.225	IO					1.12
65.583	0.00	0.20	0.224	IO					1.12
65.667	0.00	0.20	0.223	IO					1.11
65.750	0.00	0.20	0.221	IO					1.10
65.833	0.00	0.20	0.220	IO					1.10
65.917	0.00	0.20	0.219	IO					1.09
66.000	0.00	0.20	0.217	IO					1.09
66.083	0.00	0.20	0.216	IO					1.08
66.167	0.00	0.20	0.215	IO					1.08
66.250	0.00	0.20	0.213	IO					1.07
66.333	0.00	0.20	0.212	IO					1.06
66.417	0.00	0.20	0.210	IO					1.06
66.500	0.00	0.20	0.209	IO					1.05
66.583	0.00	0.20	0.208	IO					1.05
66.667	0.00	0.20	0.206	IO					1.04
66.750	0.00	0.20	0.205	IO					1.03
66.833	0.00	0.20	0.204	IO					1.03
66.917	0.00	0.20	0.202	IO					1.02
67.000	0.00	0.20	0.201	IO					1.02
67.083	0.00	0.20	0.200	IO					1.01
67.167	0.00	0.20	0.198	IO					1.01
67.250	0.00	0.20	0.197	IO					1.00
67.333	0.00	0.19	0.196	IO					0.99
67.417	0.00	0.19	0.194	IO					0.99
67.500	0.00	0.19	0.193	IO					0.98
67.583	0.00	0.19	0.192	IO					0.97
67.667	0.00	0.18	0.190	IO					0.97
67.750	0.00	0.18	0.189	IO					0.96
67.833	0.00	0.18	0.188	IO					0.96
67.917	0.00	0.18	0.187	IO					0.95
68.000	0.00	0.17	0.185	IO					0.94
68.083	0.00	0.17	0.184	IO					0.94
68.167	0.00	0.17	0.183	IO					0.93
68.250	0.00	0.17	0.182	IO					0.93

68.333	0.00	0.17	0.181	IO					0.92
68.417	0.00	0.16	0.180	IO					0.92
68.500	0.00	0.16	0.179	IO					0.91
68.583	0.00	0.16	0.177	IO					0.91
68.667	0.00	0.16	0.176	IO					0.90
68.750	0.00	0.16	0.175	IO					0.90
68.833	0.00	0.15	0.174	IO					0.89
68.917	0.00	0.15	0.173	IO					0.89
69.000	0.00	0.15	0.172	IO					0.88
69.083	0.00	0.15	0.171	IO					0.88
69.167	0.00	0.15	0.170	IO					0.87
69.250	0.00	0.14	0.169	IO					0.87
69.333	0.00	0.14	0.168	IO					0.86
69.417	0.00	0.14	0.167	IO					0.86
69.500	0.00	0.14	0.166	IO					0.85
69.583	0.00	0.14	0.165	IO					0.85
69.667	0.00	0.13	0.164	IO					0.84
69.750	0.00	0.13	0.163	IO					0.84
69.833	0.00	0.13	0.162	IO					0.83
69.917	0.00	0.13	0.162	IO					0.83
70.000	0.00	0.13	0.161	IO					0.83
70.083	0.00	0.13	0.160	0					0.82
70.167	0.00	0.12	0.159	0					0.82
70.250	0.00	0.12	0.158	0					0.81
70.333	0.00	0.12	0.157	0					0.81
70.417	0.00	0.12	0.156	0					0.80
70.500	0.00	0.12	0.156	0					0.80
70.583	0.00	0.12	0.155	0					0.80
70.667	0.00	0.12	0.154	0					0.79
70.750	0.00	0.11	0.153	0					0.79
70.833	0.00	0.11	0.152	0					0.79
70.917	0.00	0.11	0.152	0					0.78
71.000	0.00	0.11	0.151	0					0.78
71.083	0.00	0.11	0.150	0					0.77
71.167	0.00	0.11	0.149	0					0.77
71.250	0.00	0.11	0.149	0					0.77
71.333	0.00	0.10	0.148	0					0.76
71.417	0.00	0.10	0.147	0					0.76
71.500	0.00	0.10	0.147	0					0.76
71.583	0.00	0.10	0.146	0					0.75
71.667	0.00	0.10	0.145	0					0.75
71.750	0.00	0.10	0.145	0					0.75
71.833	0.00	0.10	0.144	0					0.74
71.917	0.00	0.09	0.143	0					0.74
72.000	0.00	0.09	0.143	0					0.74
72.083	0.00	0.09	0.142	0					0.74
72.167	0.00	0.09	0.141	0					0.73
72.250	0.00	0.09	0.141	0					0.73
72.333	0.00	0.09	0.140	0					0.73
72.417	0.00	0.09	0.139	0					0.72

72.500	0.00	0.09	0.139	0					0.72
72.583	0.00	0.09	0.138	0					0.72
72.667	0.00	0.08	0.138	0					0.71
72.750	0.00	0.08	0.137	0					0.71
72.833	0.00	0.08	0.136	0					0.71
72.917	0.00	0.08	0.136	0					0.71
73.000	0.00	0.08	0.135	0					0.70
73.083	0.00	0.08	0.135	0					0.70
73.167	0.00	0.08	0.134	0					0.70
73.250	0.00	0.08	0.134	0					0.70
73.333	0.00	0.08	0.133	0					0.69
73.417	0.00	0.07	0.133	0					0.69
73.500	0.00	0.07	0.132	0					0.69
73.583	0.00	0.07	0.132	0					0.69
73.667	0.00	0.07	0.131	0					0.68
73.750	0.00	0.07	0.131	0					0.68
73.833	0.00	0.07	0.130	0					0.68
73.917	0.00	0.07	0.130	0					0.68
74.000	0.00	0.07	0.129	0					0.67
74.083	0.00	0.07	0.129	0					0.67
74.167	0.00	0.07	0.128	0					0.67
74.250	0.00	0.07	0.128	0					0.67
74.333	0.00	0.06	0.127	0					0.67
74.417	0.00	0.06	0.127	0					0.66
74.500	0.00	0.06	0.127	0					0.66
74.583	0.00	0.06	0.126	0					0.66
74.667	0.00	0.06	0.126	0					0.66
74.750	0.00	0.06	0.125	0					0.66
74.833	0.00	0.06	0.125	0					0.65
74.917	0.00	0.06	0.124	0					0.65
75.000	0.00	0.06	0.124	0					0.65
75.083	0.00	0.06	0.124	0					0.65
75.167	0.00	0.06	0.123	0					0.65
75.250	0.00	0.06	0.123	0					0.64
75.333	0.00	0.06	0.122	0					0.64
75.417	0.00	0.05	0.122	0					0.64
75.500	0.00	0.05	0.122	0					0.64
75.583	0.00	0.05	0.121	0					0.64
75.667	0.00	0.05	0.121	0					0.63
75.750	0.00	0.05	0.121	0					0.63
75.833	0.00	0.05	0.120	0					0.63
75.917	0.00	0.05	0.120	0					0.63
76.000	0.00	0.05	0.120	0					0.63
76.083	0.00	0.05	0.119	0					0.63
76.167	0.00	0.05	0.119	0					0.62
76.250	0.00	0.05	0.119	0					0.62
76.333	0.00	0.05	0.118	0					0.62
76.417	0.00	0.05	0.118	0					0.62
76.500	0.00	0.05	0.118	0					0.62
76.583	0.00	0.05	0.117	0					0.62

76.667	0.00	0.05	0.117	0					0.61
76.750	0.00	0.04	0.117	0					0.61
76.833	0.00	0.04	0.116	0					0.61
76.917	0.00	0.04	0.116	0					0.61
77.000	0.00	0.04	0.116	0					0.61
77.083	0.00	0.04	0.115	0					0.61
77.167	0.00	0.04	0.115	0					0.61
77.250	0.00	0.04	0.115	0					0.60
77.333	0.00	0.04	0.115	0					0.60
77.417	0.00	0.04	0.114	0					0.60
77.500	0.00	0.04	0.114	0					0.60
77.583	0.00	0.04	0.114	0					0.60
77.667	0.00	0.04	0.113	0					0.60
77.750	0.00	0.04	0.113	0					0.60
77.833	0.00	0.04	0.113	0					0.60
77.917	0.00	0.04	0.113	0					0.59
78.000	0.00	0.04	0.112	0					0.59
78.083	0.00	0.04	0.112	0					0.59
78.167	0.00	0.04	0.112	0					0.59
78.250	0.00	0.04	0.112	0					0.59
78.333	0.00	0.03	0.111	0					0.59
78.417	0.00	0.03	0.111	0					0.59
78.500	0.00	0.03	0.111	0					0.59
78.583	0.00	0.03	0.111	0					0.59
78.667	0.00	0.03	0.111	0					0.58
78.750	0.00	0.03	0.110	0					0.58
78.833	0.00	0.03	0.110	0					0.58
78.917	0.00	0.03	0.110	0					0.58
79.000	0.00	0.03	0.110	0					0.58
79.083	0.00	0.03	0.109	0					0.58
79.167	0.00	0.03	0.109	0					0.58
79.250	0.00	0.03	0.109	0					0.58
79.333	0.00	0.03	0.109	0					0.58
79.417	0.00	0.03	0.109	0					0.57
79.500	0.00	0.03	0.108	0					0.57
79.583	0.00	0.03	0.108	0					0.57
79.667	0.00	0.03	0.108	0					0.57
79.750	0.00	0.03	0.108	0					0.57
79.833	0.00	0.03	0.108	0					0.57
79.917	0.00	0.03	0.107	0					0.57
80.000	0.00	0.03	0.107	0					0.57
80.083	0.00	0.03	0.107	0					0.57
80.167	0.00	0.03	0.107	0					0.57
80.250	0.00	0.03	0.107	0					0.57
80.333	0.00	0.03	0.106	0					0.56
80.417	0.00	0.03	0.106	0					0.56
80.500	0.00	0.02	0.106	0					0.56
80.583	0.00	0.02	0.106	0					0.56
80.667	0.00	0.02	0.106	0					0.56
80.750	0.00	0.02	0.106	0					0.56

80.833	0.00	0.02	0.105	0					0.56
80.917	0.00	0.02	0.105	0					0.56
81.000	0.00	0.02	0.105	0					0.56
81.083	0.00	0.02	0.105	0					0.56
81.167	0.00	0.02	0.105	0					0.56
81.250	0.00	0.02	0.105	0					0.56
81.333	0.00	0.02	0.105	0					0.56
81.417	0.00	0.02	0.104	0					0.55
81.500	0.00	0.02	0.104	0					0.55
81.583	0.00	0.02	0.104	0					0.55
81.667	0.00	0.02	0.104	0					0.55
81.750	0.00	0.02	0.104	0					0.55
81.833	0.00	0.02	0.104	0					0.55
81.917	0.00	0.02	0.104	0					0.55
82.000	0.00	0.02	0.103	0					0.55
82.083	0.00	0.02	0.103	0					0.55
82.167	0.00	0.02	0.103	0					0.55
82.250	0.00	0.02	0.103	0					0.55
82.333	0.00	0.02	0.103	0					0.55
82.417	0.00	0.02	0.103	0					0.55
82.500	0.00	0.02	0.103	0					0.55
82.583	0.00	0.02	0.103	0					0.55
82.667	0.00	0.02	0.102	0					0.55
82.750	0.00	0.02	0.102	0					0.54
82.833	0.00	0.02	0.102	0					0.54
82.917	0.00	0.02	0.102	0					0.54
83.000	0.00	0.02	0.102	0					0.54
83.083	0.00	0.02	0.102	0					0.54
83.167	0.00	0.02	0.102	0					0.54
83.250	0.00	0.02	0.102	0					0.54
83.333	0.00	0.02	0.101	0					0.54
83.417	0.00	0.02	0.101	0					0.54
83.500	0.00	0.02	0.101	0					0.54
83.583	0.00	0.02	0.101	0					0.54
83.667	0.00	0.02	0.101	0					0.54
83.750	0.00	0.01	0.101	0					0.54
83.833	0.00	0.01	0.101	0					0.54
83.917	0.00	0.01	0.101	0					0.54
84.000	0.00	0.01	0.101	0					0.54
84.083	0.00	0.01	0.101	0					0.54
84.167	0.00	0.01	0.100	0					0.54
84.250	0.00	0.01	0.100	0					0.54
84.333	0.00	0.01	0.100	0					0.53
84.417	0.00	0.01	0.100	0					0.53
84.500	0.00	0.01	0.100	0					0.53
84.583	0.00	0.01	0.100	0					0.53
84.667	0.00	0.01	0.100	0					0.53
84.750	0.00	0.01	0.100	0					0.53
84.833	0.00	0.01	0.100	0					0.53
84.917	0.00	0.01	0.100	0					0.53

85.000	0.00	0.01	0.100	0					0.53
85.083	0.00	0.01	0.099	0					0.53
85.167	0.00	0.01	0.099	0					0.53
85.250	0.00	0.01	0.099	0					0.53
85.333	0.00	0.01	0.099	0					0.53
85.417	0.00	0.01	0.099	0					0.53
85.500	0.00	0.01	0.099	0					0.53
85.583	0.00	0.01	0.099	0					0.53
85.667	0.00	0.01	0.099	0					0.53
85.750	0.00	0.01	0.099	0					0.53
85.833	0.00	0.01	0.099	0					0.53
85.917	0.00	0.01	0.099	0					0.53
86.000	0.00	0.01	0.099	0					0.53
86.083	0.00	0.01	0.099	0					0.53
86.167	0.00	0.01	0.098	0					0.53
86.250	0.00	0.01	0.098	0					0.53
86.333	0.00	0.01	0.098	0					0.53
86.417	0.00	0.01	0.098	0					0.53
86.500	0.00	0.01	0.098	0					0.52
86.583	0.00	0.01	0.098	0					0.52
86.667	0.00	0.01	0.098	0					0.52
86.750	0.00	0.01	0.098	0					0.52
86.833	0.00	0.01	0.098	0					0.52
86.917	0.00	0.01	0.098	0					0.52
87.000	0.00	0.01	0.098	0					0.52
87.083	0.00	0.01	0.098	0					0.52
87.167	0.00	0.01	0.098	0					0.52
87.250	0.00	0.01	0.098	0					0.52
87.333	0.00	0.01	0.098	0					0.52
87.417	0.00	0.01	0.097	0					0.52
87.500	0.00	0.01	0.097	0					0.52
87.583	0.00	0.01	0.097	0					0.52
87.667	0.00	0.01	0.097	0					0.52
87.750	0.00	0.01	0.097	0					0.52
87.833	0.00	0.01	0.097	0					0.52
87.917	0.00	0.01	0.097	0					0.52
88.000	0.00	0.01	0.097	0					0.52
88.083	0.00	0.01	0.097	0					0.52
88.167	0.00	0.01	0.097	0					0.52
88.250	0.00	0.01	0.097	0					0.52
88.333	0.00	0.01	0.097	0					0.52
88.417	0.00	0.01	0.097	0					0.52
88.500	0.00	0.01	0.097	0					0.52
88.583	0.00	0.01	0.097	0					0.52
88.667	0.00	0.01	0.097	0					0.52
88.750	0.00	0.01	0.097	0					0.52
88.833	0.00	0.01	0.097	0					0.52
88.917	0.00	0.01	0.097	0					0.52
89.000	0.00	0.01	0.096	0					0.52
89.083	0.00	0.01	0.096	0					0.52

89.167	0.00	0.01	0.096	0					0.52
89.250	0.00	0.01	0.096	0					0.52
89.333	0.00	0.01	0.096	0					0.52
89.417	0.00	0.01	0.096	0					0.52
89.500	0.00	0.01	0.096	0					0.52
89.583	0.00	0.01	0.096	0					0.52
89.667	0.00	0.01	0.096	0					0.52
89.750	0.00	0.01	0.096	0					0.51
89.833	0.00	0.01	0.096	0					0.51
89.917	0.00	0.01	0.096	0					0.51
90.000	0.00	0.01	0.096	0					0.51
90.083	0.00	0.01	0.096	0					0.51
90.167	0.00	0.01	0.096	0					0.51
90.250	0.00	0.01	0.096	0					0.51
90.333	0.00	0.01	0.096	0					0.51
90.417	0.00	0.01	0.096	0					0.51
90.500	0.00	0.01	0.096	0					0.51
90.583	0.00	0.01	0.096	0					0.51
90.667	0.00	0.01	0.096	0					0.51
90.750	0.00	0.01	0.096	0					0.51
90.833	0.00	0.00	0.096	0					0.51
90.917	0.00	0.00	0.096	0					0.51
91.000	0.00	0.00	0.096	0					0.51
91.083	0.00	0.00	0.096	0					0.51
91.167	0.00	0.00	0.095	0					0.51
91.250	0.00	0.00	0.095	0					0.51
91.333	0.00	0.00	0.095	0					0.51
91.417	0.00	0.00	0.095	0					0.51
91.500	0.00	0.00	0.095	0					0.51
91.583	0.00	0.00	0.095	0					0.51
91.667	0.00	0.00	0.095	0					0.51
91.750	0.00	0.00	0.095	0					0.51
91.833	0.00	0.00	0.095	0					0.51
91.917	0.00	0.00	0.095	0					0.51
92.000	0.00	0.00	0.095	0					0.51
92.083	0.00	0.00	0.095	0					0.51
92.167	0.00	0.00	0.095	0					0.51
92.250	0.00	0.00	0.095	0					0.51
92.333	0.00	0.00	0.095	0					0.51
92.417	0.00	0.00	0.095	0					0.51
92.500	0.00	0.00	0.095	0					0.51
92.583	0.00	0.00	0.095	0					0.51
92.667	0.00	0.00	0.095	0					0.51
92.750	0.00	0.00	0.095	0					0.51
92.833	0.00	0.00	0.095	0					0.51
92.917	0.00	0.00	0.095	0					0.51
93.000	0.00	0.00	0.095	0					0.51
93.083	0.00	0.00	0.095	0					0.51
93.167	0.00	0.00	0.095	0					0.51
93.250	0.00	0.00	0.095	0					0.51

93.333	0.00	0.00	0.095	0					0.51
93.417	0.00	0.00	0.095	0					0.51
93.500	0.00	0.00	0.095	0					0.51
93.583	0.00	0.00	0.095	0					0.51
93.667	0.00	0.00	0.095	0					0.51
93.750	0.00	0.00	0.095	0					0.51
93.833	0.00	0.00	0.095	0					0.51
93.917	0.00	0.00	0.095	0					0.51
94.000	0.00	0.00	0.095	0					0.51
94.083	0.00	0.00	0.095	0					0.51
94.167	0.00	0.00	0.095	0					0.51
94.250	0.00	0.00	0.095	0					0.51
94.333	0.00	0.00	0.095	0					0.51
94.417	0.00	0.00	0.094	0					0.51
94.500	0.00	0.00	0.094	0					0.51
94.583	0.00	0.00	0.094	0					0.51
94.667	0.00	0.00	0.094	0					0.51
94.750	0.00	0.00	0.094	0					0.51
94.833	0.00	0.00	0.094	0					0.51
94.917	0.00	0.00	0.094	0					0.51
95.000	0.00	0.00	0.094	0					0.51
95.083	0.00	0.00	0.094	0					0.51
95.167	0.00	0.00	0.094	0					0.51
95.250	0.00	0.00	0.094	0					0.51
95.333	0.00	0.00	0.094	0					0.51
95.417	0.00	0.00	0.094	0					0.51
95.500	0.00	0.00	0.094	0					0.51
95.583	0.00	0.00	0.094	0					0.51
95.667	0.00	0.00	0.094	0					0.51
95.750	0.00	0.00	0.094	0					0.51
95.833	0.00	0.00	0.094	0					0.51
95.917	0.00	0.00	0.094	0					0.51
96.000	0.00	0.00	0.094	0					0.51
96.083	0.00	0.00	0.094	0					0.51
96.167	0.00	0.00	0.094	0					0.51
96.250	0.00	0.00	0.094	0					0.51
96.333	0.00	0.00	0.094	0					0.51
96.417	0.00	0.00	0.094	0					0.51
96.500	0.00	0.00	0.094	0					0.51
96.583	0.00	0.00	0.094	0					0.51
96.667	0.00	0.00	0.094	0					0.51
96.750	0.00	0.00	0.094	0					0.51
96.833	0.00	0.00	0.094	0					0.50
96.917	0.00	0.00	0.094	0					0.50
97.000	0.00	0.00	0.094	0					0.50
97.083	0.00	0.00	0.094	0					0.50
97.167	0.00	0.00	0.094	0					0.50
97.250	0.00	0.00	0.094	0					0.50
97.333	0.00	0.00	0.094	0					0.50
97.417	0.00	0.00	0.094	0					0.50

97.500	0.00	0.00	0.094	0					0.50
97.583	0.00	0.00	0.094	0					0.50
97.667	0.00	0.00	0.094	0					0.50
97.750	0.00	0.00	0.094	0					0.50
97.833	0.00	0.00	0.094	0					0.50
97.917	0.00	0.00	0.094	0					0.50
98.000	0.00	0.00	0.094	0					0.50
98.083	0.00	0.00	0.094	0					0.50
98.167	0.00	0.00	0.094	0					0.50
98.250	0.00	0.00	0.094	0					0.50
98.333	0.00	0.00	0.094	0					0.50
98.417	0.00	0.00	0.094	0					0.50
98.500	0.00	0.00	0.094	0					0.50
98.583	0.00	0.00	0.094	0					0.50
98.667	0.00	0.00	0.094	0					0.50
98.750	0.00	0.00	0.094	0					0.50
98.833	0.00	0.00	0.094	0					0.50
98.917	0.00	0.00	0.094	0					0.50
99.000	0.00	0.00	0.094	0					0.50
99.083	0.00	0.00	0.094	0					0.50
99.167	0.00	0.00	0.094	0					0.50
99.250	0.00	0.00	0.094	0					0.50
99.333	0.00	0.00	0.094	0					0.50
99.417	0.00	0.00	0.094	0					0.50
99.500	0.00	0.00	0.094	0					0.50
99.583	0.00	0.00	0.094	0					0.50
99.667	0.00	0.00	0.094	0					0.50
99.750	0.00	0.00	0.094	0					0.50
99.833	0.00	0.00	0.094	0					0.50
99.917	0.00	0.00	0.094	0					0.50
100.000	0.00	0.00	0.094	0					0.50
100.083	0.00	0.00	0.094	0					0.50
100.167	0.00	0.00	0.094	0					0.50
100.250	0.00	0.00	0.094	0					0.50
100.333	0.00	0.00	0.094	0					0.50
100.417	0.00	0.00	0.094	0					0.50
100.500	0.00	0.00	0.094	0					0.50
100.583	0.00	0.00	0.094	0					0.50
100.667	0.00	0.00	0.094	0					0.50
100.750	0.00	0.00	0.094	0					0.50
100.833	0.00	0.00	0.094	0					0.50
100.917	0.00	0.00	0.094	0					0.50
101.000	0.00	0.00	0.094	0					0.50
101.083	0.00	0.00	0.094	0					0.50
101.167	0.00	0.00	0.094	0					0.50

Remaining water in basin = 0.09 (Ac.Ft)

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

Number of intervals = 1214

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 3.639 (CFS)

Total volume = 2.192 (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

DMA 2 Proposed 2-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 2YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH12.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.735 (CFS)
Total volume = 0.048 (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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Process from Point/Station 1.000 to Point/Station 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 13

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.4	0.87	1.30	1.74	Depth (Ft.)
0.083	0.21	0.00	0.001	O	I				0.01
0.167	0.29	0.00	0.002	O	I				0.02
0.250	0.34	0.00	0.005	O	I				0.04
0.333	0.35	0.00	0.007	O	I				0.07
0.417	0.37	0.00	0.009	O	I				0.09
0.500	0.40	0.00	0.012	O	I				0.12
0.583	0.49	0.00	0.015	O	I				0.15
0.667	0.57	0.00	0.019	O	I				0.18
0.750	0.80	0.00	0.024	O	I	I			0.23
0.833	1.74	0.00	0.032	O				I	0.31
0.917	0.94	0.00	0.041	O		I			0.40
1.000	0.37	0.00	0.046	O	I				0.44
1.083	0.09	0.00	0.048	O	I				0.46
1.167	0.00	0.00	0.048	O					0.46

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 14
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 0.000 (CFS)

Total volume = 0.000 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 2YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH32.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.928 (CFS)
Total volume = 0.076 (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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Process from Point/Station 1.000 to Point/Station 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.2	0.46	0.70	0.93	Depth (Ft.)
0.083	0.10	0.00	0.000	0	I				0.00
0.167	0.14	0.00	0.001	0	I				0.01
0.250	0.13	0.00	0.002	0	I				0.02
0.333	0.15	0.00	0.003	0	I				0.03
0.417	0.16	0.00	0.004	0	I				0.04
0.500	0.19	0.00	0.005	0	I				0.05
0.583	0.17	0.00	0.007	0	I				0.06
0.667	0.19	0.00	0.008	0	I				0.07
0.750	0.20	0.00	0.009	0	I				0.09
0.833	0.17	0.00	0.010	0	I				0.10
0.917	0.17	0.00	0.012	0	I				0.11
1.000	0.19	0.00	0.013	0	I				0.12
1.083	0.23	0.00	0.014	0	I				0.14
1.167	0.24	0.00	0.016	0	I				0.15
1.250	0.24	0.00	0.017	0	I				0.17
1.333	0.22	0.00	0.019	0	I				0.18
1.417	0.26	0.00	0.021	0	I				0.20
1.500	0.29	0.00	0.023	0	I				0.22
1.583	0.27	0.00	0.025	0	I				0.24
1.667	0.28	0.00	0.026	0	I				0.25
1.750	0.34	0.00	0.029	0	I				0.28
1.833	0.34	0.00	0.031	0	I				0.30
1.917	0.32	0.00	0.033	0	I				0.32

6.167	0.00	0.03	0.061	IO					0.58
6.250	0.00	0.03	0.061	IO					0.57
6.333	0.00	0.03	0.061	0					0.57
6.417	0.00	0.03	0.060	0					0.57
6.500	0.00	0.03	0.060	0					0.57
6.583	0.00	0.03	0.060	0					0.57
6.667	0.00	0.03	0.060	0					0.57
6.750	0.00	0.03	0.060	0					0.56
6.833	0.00	0.02	0.059	0					0.56
6.917	0.00	0.02	0.059	0					0.56
7.000	0.00	0.02	0.059	0					0.56
7.083	0.00	0.02	0.059	0					0.56
7.167	0.00	0.02	0.059	0					0.56
7.250	0.00	0.02	0.059	0					0.56
7.333	0.00	0.02	0.058	0					0.56
7.417	0.00	0.02	0.058	0					0.55
7.500	0.00	0.02	0.058	0					0.55
7.583	0.00	0.02	0.058	0					0.55
7.667	0.00	0.02	0.058	0					0.55
7.750	0.00	0.02	0.058	0					0.55
7.833	0.00	0.02	0.058	0					0.55
7.917	0.00	0.02	0.058	0					0.55
8.000	0.00	0.02	0.057	0					0.55
8.083	0.00	0.02	0.057	0					0.54
8.167	0.00	0.02	0.057	0					0.54
8.250	0.00	0.02	0.057	0					0.54
8.333	0.00	0.02	0.057	0					0.54
8.417	0.00	0.02	0.057	0					0.54
8.500	0.00	0.02	0.057	0					0.54
8.583	0.00	0.02	0.057	0					0.54
8.667	0.00	0.01	0.056	0					0.54
8.750	0.00	0.01	0.056	0					0.54
8.833	0.00	0.01	0.056	0					0.54
8.917	0.00	0.01	0.056	0					0.54
9.000	0.00	0.01	0.056	0					0.53
9.083	0.00	0.01	0.056	0					0.53
9.167	0.00	0.01	0.056	0					0.53
9.250	0.00	0.01	0.056	0					0.53
9.333	0.00	0.01	0.056	0					0.53
9.417	0.00	0.01	0.056	0					0.53
9.500	0.00	0.01	0.056	0					0.53
9.583	0.00	0.01	0.055	0					0.53
9.667	0.00	0.01	0.055	0					0.53
9.750	0.00	0.01	0.055	0					0.53
9.833	0.00	0.01	0.055	0					0.53
9.917	0.00	0.01	0.055	0					0.53
10.000	0.00	0.01	0.055	0					0.53
10.083	0.00	0.01	0.055	0					0.53
10.167	0.00	0.01	0.055	0					0.53
10.250	0.00	0.01	0.055	0					0.52

10.333	0.00	0.01	0.055	0				0.52
10.417	0.00	0.01	0.055	0				0.52
10.500	0.00	0.01	0.055	0				0.52
10.583	0.00	0.01	0.055	0				0.52
10.667	0.00	0.01	0.055	0				0.52
10.750	0.00	0.01	0.055	0				0.52
10.833	0.00	0.01	0.054	0				0.52
10.917	0.00	0.01	0.054	0				0.52
11.000	0.00	0.01	0.054	0				0.52
11.083	0.00	0.01	0.054	0				0.52
11.167	0.00	0.01	0.054	0				0.52
11.250	0.00	0.01	0.054	0				0.52
11.333	0.00	0.01	0.054	0				0.52
11.417	0.00	0.01	0.054	0				0.52
11.500	0.00	0.01	0.054	0				0.52
11.583	0.00	0.01	0.054	0				0.52
11.667	0.00	0.01	0.054	0				0.52
11.750	0.00	0.01	0.054	0				0.52
11.833	0.00	0.01	0.054	0				0.52
11.917	0.00	0.01	0.054	0				0.52
12.000	0.00	0.01	0.054	0				0.52
12.083	0.00	0.01	0.054	0				0.51
12.167	0.00	0.01	0.054	0				0.51
12.250	0.00	0.01	0.054	0				0.51
12.333	0.00	0.01	0.054	0				0.51
12.417	0.00	0.01	0.054	0				0.51
12.500	0.00	0.01	0.054	0				0.51
12.583	0.00	0.01	0.054	0				0.51
12.667	0.00	0.00	0.053	0				0.51
12.750	0.00	0.00	0.053	0				0.51
12.833	0.00	0.00	0.053	0				0.51
12.917	0.00	0.00	0.053	0				0.51
13.000	0.00	0.00	0.053	0				0.51
13.083	0.00	0.00	0.053	0				0.51
13.167	0.00	0.00	0.053	0				0.51
13.250	0.00	0.00	0.053	0				0.51
13.333	0.00	0.00	0.053	0				0.51
13.417	0.00	0.00	0.053	0				0.51
13.500	0.00	0.00	0.053	0				0.51
13.583	0.00	0.00	0.053	0				0.51
13.667	0.00	0.00	0.053	0				0.51
13.750	0.00	0.00	0.053	0				0.51
13.833	0.00	0.00	0.053	0				0.51
13.917	0.00	0.00	0.053	0				0.51
14.000	0.00	0.00	0.053	0				0.51
14.083	0.00	0.00	0.053	0				0.51
14.167	0.00	0.00	0.053	0				0.51
14.250	0.00	0.00	0.053	0				0.51
14.333	0.00	0.00	0.053	0				0.51
14.417	0.00	0.00	0.053	0				0.51

14.500	0.00	0.00	0.053	0					0.51
14.583	0.00	0.00	0.053	0					0.51
14.667	0.00	0.00	0.053	0					0.51
14.750	0.00	0.00	0.053	0					0.51
14.833	0.00	0.00	0.053	0					0.51
14.917	0.00	0.00	0.053	0					0.51
15.000	0.00	0.00	0.053	0					0.51
15.083	0.00	0.00	0.053	0					0.51
15.167	0.00	0.00	0.053	0					0.51
15.250	0.00	0.00	0.053	0					0.51
15.333	0.00	0.00	0.053	0					0.51
15.417	0.00	0.00	0.053	0					0.51
15.500	0.00	0.00	0.053	0					0.51
15.583	0.00	0.00	0.053	0					0.51
15.667	0.00	0.00	0.053	0					0.51
15.750	0.00	0.00	0.053	0					0.51
15.833	0.00	0.00	0.053	0					0.51
15.917	0.00	0.00	0.053	0					0.51
16.000	0.00	0.00	0.053	0					0.51
16.083	0.00	0.00	0.053	0					0.50
16.167	0.00	0.00	0.053	0					0.50
16.250	0.00	0.00	0.053	0					0.50
16.333	0.00	0.00	0.053	0					0.50
16.417	0.00	0.00	0.053	0					0.50
16.500	0.00	0.00	0.053	0					0.50
16.583	0.00	0.00	0.053	0					0.50
16.667	0.00	0.00	0.052	0					0.50
16.750	0.00	0.00	0.052	0					0.50
16.833	0.00	0.00	0.052	0					0.50
16.917	0.00	0.00	0.052	0					0.50
17.000	0.00	0.00	0.052	0					0.50
17.083	0.00	0.00	0.052	0					0.50
17.167	0.00	0.00	0.052	0					0.50
17.250	0.00	0.00	0.052	0					0.50
17.333	0.00	0.00	0.052	0					0.50
17.417	0.00	0.00	0.052	0					0.50
17.500	0.00	0.00	0.052	0					0.50
17.583	0.00	0.00	0.052	0					0.50
17.667	0.00	0.00	0.052	0					0.50
17.750	0.00	0.00	0.052	0					0.50
17.833	0.00	0.00	0.052	0					0.50
17.917	0.00	0.00	0.052	0					0.50
18.000	0.00	0.00	0.052	0					0.50
18.083	0.00	0.00	0.052	0					0.50
18.167	0.00	0.00	0.052	0					0.50
18.250	0.00	0.00	0.052	0					0.50
18.333	0.00	0.00	0.052	0					0.50
18.417	0.00	0.00	0.052	0					0.50
18.500	0.00	0.00	0.052	0					0.50
18.583	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 223

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.070 (CFS)

Total volume = 0.023 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 2 2YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH62.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.847 (CFS)
Total volume = 0.104 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	Depth (Ft.)					
				0	0.2	0.42	0.64	0.85	
0.083	0.05	0.00	0.000	0 I					0.00
0.167	0.09	0.00	0.001	0 I					0.01
0.250	0.09	0.00	0.001	0 I					0.01
0.333	0.09	0.00	0.002	0 I					0.02
0.417	0.09	0.00	0.003	0 I					0.02
0.500	0.10	0.00	0.003	0 I					0.03
0.583	0.11	0.00	0.004	0 I					0.04
0.667	0.11	0.00	0.005	0 I					0.04
0.750	0.11	0.00	0.005	0 I					0.05
0.833	0.11	0.00	0.006	0 I					0.06
0.917	0.11	0.00	0.007	0 I					0.07
1.000	0.12	0.00	0.008	0 I					0.07
1.083	0.12	0.00	0.008	0 I					0.08
1.167	0.12	0.00	0.009	0 I					0.09
1.250	0.12	0.00	0.010	0 I					0.10
1.333	0.12	0.00	0.011	0 I					0.10
1.417	0.12	0.00	0.012	0 I					0.11
1.500	0.12	0.00	0.013	0 I					0.12
1.583	0.12	0.00	0.013	0 I					0.13
1.667	0.12	0.00	0.014	0 I					0.14
1.750	0.12	0.00	0.015	0 I					0.14
1.833	0.12	0.00	0.016	0 I					0.15
1.917	0.12	0.00	0.017	0 I					0.16

6.167	0.00	0.13	0.091	I	0					0.83
6.250	0.00	0.13	0.090	I	0					0.83
6.333	0.00	0.12	0.090	I	0					0.82
6.417	0.00	0.12	0.089	I	0					0.81
6.500	0.00	0.12	0.088	I	0					0.80
6.583	0.00	0.12	0.087	I	0					0.80
6.667	0.00	0.11	0.086	I	0					0.79
6.750	0.00	0.11	0.085	I	0					0.78
6.833	0.00	0.11	0.085	I	0					0.78
6.917	0.00	0.11	0.084	I	0					0.77
7.000	0.00	0.10	0.083	I	0					0.76
7.083	0.00	0.10	0.083	I	0					0.76
7.167	0.00	0.10	0.082	I	0					0.75
7.250	0.00	0.10	0.081	I	0					0.75
7.333	0.00	0.09	0.080	I	0					0.74
7.417	0.00	0.09	0.080	I	0					0.74
7.500	0.00	0.09	0.079	I	0					0.73
7.583	0.00	0.09	0.079	I	0					0.73
7.667	0.00	0.09	0.078	I	0					0.72
7.750	0.00	0.08	0.077	I	0					0.72
7.833	0.00	0.08	0.077	I	0					0.71
7.917	0.00	0.08	0.076	I	0					0.71
8.000	0.00	0.08	0.076	I	0					0.70
8.083	0.00	0.08	0.075	I	0					0.70
8.167	0.00	0.08	0.075	I	0					0.69
8.250	0.00	0.07	0.074	I	0					0.69
8.333	0.00	0.07	0.074	I	0					0.68
8.417	0.00	0.07	0.073	I	0					0.68
8.500	0.00	0.07	0.073	I	0					0.68
8.583	0.00	0.07	0.072	I	0					0.67
8.667	0.00	0.07	0.072	I	0					0.67
8.750	0.00	0.06	0.071	I	0					0.66
8.833	0.00	0.06	0.071	I	0					0.66
8.917	0.00	0.06	0.070	I	0					0.66
9.000	0.00	0.06	0.070	I	0					0.65
9.083	0.00	0.06	0.070	I	0					0.65
9.167	0.00	0.06	0.069	I	0					0.65
9.250	0.00	0.06	0.069	I	0					0.64
9.333	0.00	0.05	0.068	I	0					0.64
9.417	0.00	0.05	0.068	I	0					0.64
9.500	0.00	0.05	0.068	IO						0.63
9.583	0.00	0.05	0.067	IO						0.63
9.667	0.00	0.05	0.067	IO						0.63
9.750	0.00	0.05	0.067	IO						0.62
9.833	0.00	0.05	0.066	IO						0.62
9.917	0.00	0.05	0.066	IO						0.62
10.000	0.00	0.05	0.066	IO						0.62
10.083	0.00	0.04	0.065	IO						0.61
10.167	0.00	0.04	0.065	IO						0.61
10.250	0.00	0.04	0.065	IO						0.61

10.333	0.00	0.04	0.064	IO					0.61
10.417	0.00	0.04	0.064	IO					0.60
10.500	0.00	0.04	0.064	IO					0.60
10.583	0.00	0.04	0.064	IO					0.60
10.667	0.00	0.04	0.063	IO					0.60
10.750	0.00	0.04	0.063	IO					0.59
10.833	0.00	0.04	0.063	IO					0.59
10.917	0.00	0.04	0.063	IO					0.59
11.000	0.00	0.03	0.062	IO					0.59
11.083	0.00	0.03	0.062	IO					0.59
11.167	0.00	0.03	0.062	IO					0.58
11.250	0.00	0.03	0.062	IO					0.58
11.333	0.00	0.03	0.061	IO					0.58
11.417	0.00	0.03	0.061	IO					0.58
11.500	0.00	0.03	0.061	IO					0.58
11.583	0.00	0.03	0.061	IO					0.58
11.667	0.00	0.03	0.061	IO					0.57
11.750	0.00	0.03	0.060	IO					0.57
11.833	0.00	0.03	0.060	IO					0.57
11.917	0.00	0.03	0.060	IO					0.57
12.000	0.00	0.03	0.060	0					0.57
12.083	0.00	0.03	0.060	0					0.57
12.167	0.00	0.03	0.060	0					0.56
12.250	0.00	0.02	0.059	0					0.56
12.333	0.00	0.02	0.059	0					0.56
12.417	0.00	0.02	0.059	0					0.56
12.500	0.00	0.02	0.059	0					0.56
12.583	0.00	0.02	0.059	0					0.56
12.667	0.00	0.02	0.059	0					0.56
12.750	0.00	0.02	0.058	0					0.55
12.833	0.00	0.02	0.058	0					0.55
12.917	0.00	0.02	0.058	0					0.55
13.000	0.00	0.02	0.058	0					0.55
13.083	0.00	0.02	0.058	0					0.55
13.167	0.00	0.02	0.058	0					0.55
13.250	0.00	0.02	0.058	0					0.55
13.333	0.00	0.02	0.057	0					0.55
13.417	0.00	0.02	0.057	0					0.55
13.500	0.00	0.02	0.057	0					0.54
13.583	0.00	0.02	0.057	0					0.54
13.667	0.00	0.02	0.057	0					0.54
13.750	0.00	0.02	0.057	0					0.54
13.833	0.00	0.02	0.057	0					0.54
13.917	0.00	0.02	0.057	0					0.54
14.000	0.00	0.02	0.057	0					0.54
14.083	0.00	0.01	0.056	0					0.54
14.167	0.00	0.01	0.056	0					0.54
14.250	0.00	0.01	0.056	0					0.54
14.333	0.00	0.01	0.056	0					0.54
14.417	0.00	0.01	0.056	0					0.53

14.500	0.00	0.01	0.056	0					0.53
14.583	0.00	0.01	0.056	0					0.53
14.667	0.00	0.01	0.056	0					0.53
14.750	0.00	0.01	0.056	0					0.53
14.833	0.00	0.01	0.056	0					0.53
14.917	0.00	0.01	0.056	0					0.53
15.000	0.00	0.01	0.055	0					0.53
15.083	0.00	0.01	0.055	0					0.53
15.167	0.00	0.01	0.055	0					0.53
15.250	0.00	0.01	0.055	0					0.53
15.333	0.00	0.01	0.055	0					0.53
15.417	0.00	0.01	0.055	0					0.53
15.500	0.00	0.01	0.055	0					0.53
15.583	0.00	0.01	0.055	0					0.52
15.667	0.00	0.01	0.055	0					0.52
15.750	0.00	0.01	0.055	0					0.52
15.833	0.00	0.01	0.055	0					0.52
15.917	0.00	0.01	0.055	0					0.52
16.000	0.00	0.01	0.055	0					0.52
16.083	0.00	0.01	0.055	0					0.52
16.167	0.00	0.01	0.055	0					0.52
16.250	0.00	0.01	0.054	0					0.52
16.333	0.00	0.01	0.054	0					0.52
16.417	0.00	0.01	0.054	0					0.52
16.500	0.00	0.01	0.054	0					0.52
16.583	0.00	0.01	0.054	0					0.52
16.667	0.00	0.01	0.054	0					0.52
16.750	0.00	0.01	0.054	0					0.52
16.833	0.00	0.01	0.054	0					0.52
16.917	0.00	0.01	0.054	0					0.52
17.000	0.00	0.01	0.054	0					0.52
17.083	0.00	0.01	0.054	0					0.52
17.167	0.00	0.01	0.054	0					0.52
17.250	0.00	0.01	0.054	0					0.52
17.333	0.00	0.01	0.054	0					0.52
17.417	0.00	0.01	0.054	0					0.52
17.500	0.00	0.01	0.054	0					0.51
17.583	0.00	0.01	0.054	0					0.51
17.667	0.00	0.01	0.054	0					0.51
17.750	0.00	0.01	0.054	0					0.51
17.833	0.00	0.01	0.054	0					0.51
17.917	0.00	0.01	0.054	0					0.51
18.000	0.00	0.01	0.054	0					0.51
18.083	0.00	0.00	0.053	0					0.51
18.167	0.00	0.00	0.053	0					0.51
18.250	0.00	0.00	0.053	0					0.51
18.333	0.00	0.00	0.053	0					0.51
18.417	0.00	0.00	0.053	0					0.51
18.500	0.00	0.00	0.053	0					0.51
18.583	0.00	0.00	0.053	0					0.51

18.667	0.00	0.00	0.053	0					0.51
18.750	0.00	0.00	0.053	0					0.51
18.833	0.00	0.00	0.053	0					0.51
18.917	0.00	0.00	0.053	0					0.51
19.000	0.00	0.00	0.053	0					0.51
19.083	0.00	0.00	0.053	0					0.51
19.167	0.00	0.00	0.053	0					0.51
19.250	0.00	0.00	0.053	0					0.51
19.333	0.00	0.00	0.053	0					0.51
19.417	0.00	0.00	0.053	0					0.51
19.500	0.00	0.00	0.053	0					0.51
19.583	0.00	0.00	0.053	0					0.51
19.667	0.00	0.00	0.053	0					0.51
19.750	0.00	0.00	0.053	0					0.51
19.833	0.00	0.00	0.053	0					0.51
19.917	0.00	0.00	0.053	0					0.51
20.000	0.00	0.00	0.053	0					0.51
20.083	0.00	0.00	0.053	0					0.51
20.167	0.00	0.00	0.053	0					0.51
20.250	0.00	0.00	0.053	0					0.51
20.333	0.00	0.00	0.053	0					0.51
20.417	0.00	0.00	0.053	0					0.51
20.500	0.00	0.00	0.053	0					0.51
20.583	0.00	0.00	0.053	0					0.51
20.667	0.00	0.00	0.053	0					0.51
20.750	0.00	0.00	0.053	0					0.51
20.833	0.00	0.00	0.053	0					0.51
20.917	0.00	0.00	0.053	0					0.51
21.000	0.00	0.00	0.053	0					0.51
21.083	0.00	0.00	0.053	0					0.51
21.167	0.00	0.00	0.053	0					0.51
21.250	0.00	0.00	0.053	0					0.51
21.333	0.00	0.00	0.053	0					0.51
21.417	0.00	0.00	0.053	0					0.51
21.500	0.00	0.00	0.053	0					0.50
21.583	0.00	0.00	0.053	0					0.50
21.667	0.00	0.00	0.053	0					0.50
21.750	0.00	0.00	0.053	0					0.50
21.833	0.00	0.00	0.053	0					0.50
21.917	0.00	0.00	0.053	0					0.50
22.000	0.00	0.00	0.053	0					0.50
22.083	0.00	0.00	0.052	0					0.50
22.167	0.00	0.00	0.052	0					0.50
22.250	0.00	0.00	0.052	0					0.50
22.333	0.00	0.00	0.052	0					0.50
22.417	0.00	0.00	0.052	0					0.50
22.500	0.00	0.00	0.052	0					0.50
22.583	0.00	0.00	0.052	0					0.50
22.667	0.00	0.00	0.052	0					0.50
22.750	0.00	0.00	0.052	0					0.50

22.833	0.00	0.00	0.052	0					0.50
22.917	0.00	0.00	0.052	0					0.50
23.000	0.00	0.00	0.052	0					0.50
23.083	0.00	0.00	0.052	0					0.50
23.167	0.00	0.00	0.052	0					0.50
23.250	0.00	0.00	0.052	0					0.50
23.333	0.00	0.00	0.052	0					0.50
23.417	0.00	0.00	0.052	0					0.50
23.500	0.00	0.00	0.052	0					0.50
23.583	0.00	0.00	0.052	0					0.50
23.667	0.00	0.00	0.052	0					0.50
23.750	0.00	0.00	0.052	0					0.50
23.833	0.00	0.00	0.052	0					0.50
23.917	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

*****HYDROGRAPH DATA*****
 Number of intervals = 287
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 0.141 (CFS)
 Total volume = 0.052 (Ac.Ft)
 Status of hydrographs being held in storage
 Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
 Peak (CFS) 0.000 0.000 0.000 0.000 0.000
 Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 2YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH242.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.292 (CFS)
Total volume = 0.177 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.1	0.15	0.22	0.29	Depth (Ft.)
0.083	0.01	0.00	0.000	OI					0.00
0.167	0.02	0.00	0.000	OI					0.00
0.250	0.02	0.00	0.000	OI					0.00
0.333	0.02	0.00	0.000	O I					0.00
0.417	0.03	0.00	0.001	O I					0.01
0.500	0.03	0.00	0.001	O I					0.01
0.583	0.03	0.00	0.001	O I					0.01
0.667	0.03	0.00	0.001	O I					0.01
0.750	0.03	0.00	0.001	O I					0.01
0.833	0.03	0.00	0.001	O I					0.01
0.917	0.03	0.00	0.002	O I					0.02
1.000	0.03	0.00	0.002	O I					0.02
1.083	0.03	0.00	0.002	O I					0.02
1.167	0.03	0.00	0.002	O I					0.02
1.250	0.03	0.00	0.003	O I					0.02
1.333	0.03	0.00	0.003	O I					0.03
1.417	0.03	0.00	0.003	O I					0.03
1.500	0.03	0.00	0.003	O I					0.03
1.583	0.03	0.00	0.003	O I					0.03
1.667	0.03	0.00	0.003	O I					0.03
1.750	0.03	0.00	0.004	O I					0.03
1.833	0.03	0.00	0.004	O I					0.04
1.917	0.03	0.00	0.004	O I					0.04

2.000	0.03	0.00	0.004	0	I					0.04
2.083	0.03	0.00	0.004	0	I					0.04
2.167	0.03	0.00	0.005	0	I					0.05
2.250	0.03	0.00	0.005	0	I					0.05
2.333	0.03	0.00	0.005	0	I					0.05
2.417	0.03	0.00	0.005	0	I					0.05
2.500	0.03	0.00	0.006	0	I					0.05
2.583	0.04	0.00	0.006	0	I					0.06
2.667	0.04	0.00	0.006	0	I					0.06
2.750	0.04	0.00	0.007	0	I					0.06
2.833	0.04	0.00	0.007	0	I					0.07
2.917	0.04	0.00	0.007	0	I					0.07
3.000	0.04	0.00	0.007	0	I					0.07
3.083	0.04	0.00	0.008	0	I					0.07
3.167	0.04	0.00	0.008	0	I					0.08
3.250	0.04	0.00	0.008	0	I					0.08
3.333	0.04	0.00	0.009	0	I					0.08
3.417	0.04	0.00	0.009	0	I					0.09
3.500	0.04	0.00	0.009	0	I					0.09
3.583	0.04	0.00	0.009	0	I					0.09
3.667	0.04	0.00	0.010	0	I					0.09
3.750	0.04	0.00	0.010	0	I					0.10
3.833	0.05	0.00	0.010	0	I					0.10
3.917	0.05	0.00	0.011	0	I					0.10
4.000	0.05	0.00	0.011	0	I					0.11
4.083	0.05	0.00	0.011	0	I					0.11
4.167	0.05	0.00	0.012	0	I					0.11
4.250	0.05	0.00	0.012	0	I					0.12
4.333	0.06	0.00	0.013	0	I					0.12
4.417	0.06	0.00	0.013	0	I					0.12
4.500	0.06	0.00	0.013	0	I					0.13
4.583	0.06	0.00	0.014	0	I					0.13
4.667	0.06	0.00	0.014	0	I					0.14
4.750	0.06	0.00	0.015	0	I					0.14
4.833	0.07	0.00	0.015	0	I					0.14
4.917	0.07	0.00	0.015	0	I					0.15
5.000	0.07	0.00	0.016	0	I					0.15
5.083	0.06	0.00	0.016	0	I					0.16
5.167	0.05	0.00	0.017	0	I					0.16
5.250	0.05	0.00	0.017	0	I					0.16
5.333	0.06	0.00	0.017	0	I					0.17
5.417	0.06	0.00	0.018	0	I					0.17
5.500	0.06	0.00	0.018	0	I					0.18
5.583	0.07	0.00	0.019	0	I					0.18
5.667	0.07	0.00	0.019	0	I					0.18
5.750	0.07	0.00	0.020	0	I					0.19
5.833	0.07	0.00	0.020	0	I					0.19
5.917	0.07	0.00	0.021	0	I					0.20
6.000	0.07	0.00	0.021	0	I					0.20
6.083	0.07	0.00	0.022	0	I					0.21

6.167	0.08	0.00	0.022	0	I				0.21
6.250	0.08	0.00	0.023	0	I				0.22
6.333	0.08	0.00	0.023	0	I				0.22
6.417	0.08	0.00	0.024	0	I				0.23
6.500	0.08	0.00	0.024	0	I				0.23
6.583	0.08	0.00	0.025	0	I				0.24
6.667	0.09	0.00	0.025	0	I				0.24
6.750	0.09	0.00	0.026	0	I				0.25
6.833	0.09	0.00	0.027	0	I				0.26
6.917	0.09	0.00	0.027	0	I				0.26
7.000	0.09	0.00	0.028	0	I				0.27
7.083	0.09	0.00	0.028	0	I				0.27
7.167	0.09	0.00	0.029	0	I				0.28
7.250	0.09	0.00	0.030	0	I				0.28
7.333	0.09	0.00	0.030	0	I				0.29
7.417	0.09	0.00	0.031	0	I				0.30
7.500	0.09	0.00	0.031	0	I				0.30
7.583	0.10	0.00	0.032	0	I				0.31
7.667	0.10	0.00	0.033	0	I				0.32
7.750	0.10	0.00	0.034	0	I				0.32
7.833	0.11	0.00	0.034	0	I				0.33
7.917	0.11	0.00	0.035	0	I				0.34
8.000	0.11	0.00	0.036	0	I				0.34
8.083	0.12	0.00	0.037	0	I				0.35
8.167	0.13	0.00	0.037	0	I				0.36
8.250	0.13	0.00	0.038	0	I				0.37
8.333	0.13	0.00	0.039	0	I				0.38
8.417	0.13	0.00	0.040	0	I				0.39
8.500	0.13	0.00	0.041	0	I				0.39
8.583	0.13	0.00	0.042	0	I				0.40
8.667	0.14	0.00	0.043	0	I				0.41
8.750	0.14	0.00	0.044	0	I				0.42
8.833	0.14	0.00	0.045	0	I				0.43
8.917	0.15	0.00	0.046	0	I				0.44
9.000	0.15	0.00	0.047	0	I				0.45
9.083	0.16	0.00	0.048	0	I				0.46
9.167	0.16	0.00	0.049	0	I				0.47
9.250	0.16	0.00	0.050	0	I				0.48
9.333	0.17	0.00	0.051	0	I				0.49
9.417	0.17	0.00	0.052	0	I				0.50
9.500	0.17	0.01	0.054	0	I				0.51
9.583	0.18	0.01	0.055	0	I				0.52
9.667	0.18	0.01	0.056	0	I				0.53
9.750	0.18	0.02	0.057	0	I				0.54
9.833	0.19	0.02	0.058	0	I				0.55
9.917	0.19	0.02	0.059	0	I				0.56
10.000	0.19	0.03	0.060	0	I				0.57
10.083	0.15	0.03	0.061	0	I				0.58
10.167	0.13	0.03	0.062	0	I				0.59
10.250	0.13	0.04	0.063	0	I				0.59

10.333	0.13	0.04	0.063	0	I			0.60
10.417	0.13	0.04	0.064	0	I			0.60
10.500	0.13	0.04	0.065	0	I			0.61
10.583	0.16	0.04	0.065	0		I		0.61
10.667	0.17	0.05	0.066	0		I		0.62
10.750	0.17	0.05	0.067	0		I		0.63
10.833	0.17	0.05	0.068	0		I		0.63
10.917	0.17	0.06	0.069	0		I		0.64
11.000	0.17	0.06	0.069	0		I		0.65
11.083	0.17	0.06	0.070	0		I		0.65
11.167	0.16	0.06	0.071	0		I		0.66
11.250	0.16	0.06	0.072	0		I		0.67
11.333	0.16	0.07	0.072	0		I		0.67
11.417	0.16	0.07	0.073	0		I		0.68
11.500	0.16	0.07	0.073	0		I		0.68
11.583	0.15	0.07	0.074	0	I			0.69
11.667	0.15	0.08	0.075	0	I			0.69
11.750	0.15	0.08	0.075	0	I			0.70
11.833	0.15	0.08	0.076	0	I			0.70
11.917	0.15	0.08	0.076	0	I			0.70
12.000	0.15	0.08	0.077	0	I			0.71
12.083	0.20	0.08	0.077	0		I		0.71
12.167	0.21	0.09	0.078	0		I		0.72
12.250	0.21	0.09	0.079	0		I		0.73
12.333	0.22	0.09	0.080	0		I		0.74
12.417	0.22	0.10	0.081	0		I		0.74
12.500	0.22	0.10	0.082	0		I		0.75
12.583	0.24	0.10	0.082	0		I		0.76
12.667	0.24	0.10	0.083	0		I		0.77
12.750	0.24	0.11	0.084	0		I		0.77
12.833	0.25	0.11	0.085	0		I		0.78
12.917	0.25	0.11	0.086	0		I		0.79
13.000	0.25	0.12	0.087	0		I		0.80
13.083	0.28	0.12	0.088	0			I	0.81
13.167	0.29	0.12	0.089	0			I	0.82
13.250	0.29	0.13	0.090	0			I	0.82
13.333	0.29	0.13	0.091	0			I	0.83
13.417	0.29	0.13	0.093	0			I	0.84
13.500	0.29	0.14	0.094	0			I	0.85
13.583	0.22	0.14	0.094	0		I		0.86
13.667	0.20	0.14	0.095	0		I		0.86
13.750	0.20	0.14	0.095	0		I		0.87
13.833	0.20	0.15	0.096	0		I		0.87
13.917	0.20	0.15	0.096	0		I		0.87
14.000	0.20	0.15	0.096	0		I		0.88
14.083	0.22	0.15	0.097	0		I		0.88
14.167	0.23	0.15	0.097	0		I		0.88
14.250	0.23	0.15	0.098	0		I		0.89
14.333	0.23	0.15	0.098	0		I		0.89
14.417	0.22	0.16	0.099	0		I		0.90

14.500	0.22	0.16	0.099			0	I	0.90
14.583	0.22	0.16	0.100			0	I	0.90
14.667	0.22	0.16	0.100			0	I	0.91
14.750	0.22	0.16	0.101			0	I	0.91
14.833	0.22	0.16	0.101			0	I	0.92
14.917	0.21	0.16	0.101			0	I	0.92
15.000	0.21	0.17	0.102			0	I	0.92
15.083	0.21	0.17	0.102			0	I	0.92
15.167	0.21	0.17	0.102			0	I	0.93
15.250	0.21	0.17	0.103			0	I	0.93
15.333	0.20	0.17	0.103			0	I	0.93
15.417	0.20	0.17	0.103			0	I	0.93
15.500	0.20	0.17	0.103			0	I	0.93
15.583	0.17	0.17	0.103			0		0.93
15.667	0.16	0.17	0.103			IO		0.93
15.750	0.16	0.17	0.103			IO		0.93
15.833	0.16	0.17	0.103			IO		0.93
15.917	0.16	0.17	0.103			IO		0.93
16.000	0.16	0.17	0.103			IO		0.93
16.083	0.07	0.17	0.103		I	0		0.93
16.167	0.03	0.17	0.102	I		0		0.92
16.250	0.03	0.16	0.101	I		0		0.92
16.333	0.03	0.16	0.100	I		0		0.91
16.417	0.03	0.16	0.099	I		0		0.90
16.500	0.03	0.15	0.098	I		0		0.89
16.583	0.03	0.15	0.098	I		0		0.89
16.667	0.03	0.15	0.097	I		0		0.88
16.750	0.03	0.15	0.096	I		0		0.87
16.833	0.03	0.14	0.095	I		0		0.87
16.917	0.03	0.14	0.094	I		0		0.86
17.000	0.03	0.14	0.094	I		0		0.85
17.083	0.04	0.14	0.093	I		0		0.85
17.167	0.04	0.13	0.092	I		0		0.84
17.250	0.04	0.13	0.092	I		0		0.83
17.333	0.04	0.13	0.091	I		0		0.83
17.417	0.04	0.13	0.090	I		0		0.82
17.500	0.04	0.13	0.090	I		0		0.82
17.583	0.04	0.12	0.089	I		0		0.82
17.667	0.04	0.12	0.089	I		0		0.81
17.750	0.04	0.12	0.088	I		0		0.81
17.833	0.04	0.12	0.088	I		0		0.80
17.917	0.03	0.12	0.087	I		0		0.80
18.000	0.03	0.11	0.086	I		0		0.79
18.083	0.03	0.11	0.086	I		0		0.79
18.167	0.03	0.11	0.085	I		0		0.78
18.250	0.03	0.11	0.085	I		0		0.78
18.333	0.03	0.11	0.084	I		0		0.77
18.417	0.03	0.11	0.084	I		0		0.77
18.500	0.03	0.10	0.083	I		0		0.77
18.583	0.03	0.10	0.083	I		0		0.76

18.667	0.03	0.10	0.082	I	0				0.76
18.750	0.03	0.10	0.082	I	0				0.75
18.833	0.02	0.10	0.081	I	0				0.75
18.917	0.02	0.10	0.081	I	0				0.74
19.000	0.02	0.09	0.080	I	0				0.74
19.083	0.02	0.09	0.080	I	0				0.73
19.167	0.03	0.09	0.079	I	0				0.73
19.250	0.03	0.09	0.079	I	0				0.73
19.333	0.03	0.09	0.078	I	0				0.72
19.417	0.03	0.09	0.078	I	0				0.72
19.500	0.03	0.09	0.078	I	0				0.72
19.583	0.03	0.08	0.077	I	0				0.71
19.667	0.03	0.08	0.077	I	0				0.71
19.750	0.03	0.08	0.077	I	0				0.71
19.833	0.02	0.08	0.076	I	0				0.70
19.917	0.02	0.08	0.076	I	0				0.70
20.000	0.02	0.08	0.075	I	0				0.70
20.083	0.02	0.08	0.075	I	0				0.69
20.167	0.03	0.08	0.075	I	0				0.69
20.250	0.03	0.07	0.074	I	0				0.69
20.333	0.03	0.07	0.074	I	0				0.69
20.417	0.03	0.07	0.074	I	0				0.68
20.500	0.03	0.07	0.073	I	0				0.68
20.583	0.03	0.07	0.073	I	0				0.68
20.667	0.03	0.07	0.073	I	0				0.67
20.750	0.03	0.07	0.072	I	0				0.67
20.833	0.02	0.07	0.072	I	0				0.67
20.917	0.02	0.07	0.072	I	0				0.67
21.000	0.02	0.06	0.071	I	0				0.66
21.083	0.02	0.06	0.071	I	0				0.66
21.167	0.03	0.06	0.071	I	0				0.66
21.250	0.03	0.06	0.071	I	0				0.66
21.333	0.02	0.06	0.070	I	0				0.66
21.417	0.02	0.06	0.070	I	0				0.65
21.500	0.02	0.06	0.070	I	0				0.65
21.583	0.02	0.06	0.069	I	0				0.65
21.667	0.03	0.06	0.069	I	0				0.65
21.750	0.03	0.06	0.069	I	0				0.64
21.833	0.02	0.06	0.069	I	0				0.64
21.917	0.02	0.05	0.069	I	0				0.64
22.000	0.02	0.05	0.068	I	0				0.64
22.083	0.02	0.05	0.068	I	0				0.64
22.167	0.03	0.05	0.068	I	0				0.63
22.250	0.03	0.05	0.068	I	0				0.63
22.333	0.02	0.05	0.067	I	0				0.63
22.417	0.02	0.05	0.067	I	0				0.63
22.500	0.02	0.05	0.067	I	0				0.63
22.583	0.02	0.05	0.067	I	0				0.63
22.667	0.02	0.05	0.067	I	0				0.62
22.750	0.02	0.05	0.066	I	0				0.62

22.833	0.02	0.05	0.066	I	0					0.62
22.917	0.02	0.05	0.066	I	0					0.62
23.000	0.02	0.05	0.066	I	0					0.62
23.083	0.02	0.05	0.066	I	0					0.61
23.167	0.02	0.04	0.065	I	0					0.61
23.250	0.02	0.04	0.065	I	0					0.61
23.333	0.02	0.04	0.065	I	0					0.61
23.417	0.02	0.04	0.065	I	0					0.61
23.500	0.02	0.04	0.065	I	0					0.61
23.583	0.02	0.04	0.064	I	0					0.61
23.667	0.02	0.04	0.064	I	0					0.60
23.750	0.02	0.04	0.064	I	0					0.60
23.833	0.02	0.04	0.064	I	0					0.60
23.917	0.02	0.04	0.064	I	0					0.60
24.000	0.02	0.04	0.064	I	0					0.60
24.083	0.00	0.04	0.063	I	0					0.60
24.167	0.00	0.04	0.063	I	0					0.60
24.250	0.00	0.04	0.063	I	0					0.59
24.333	0.00	0.04	0.063	I	0					0.59
24.417	0.00	0.03	0.062	I	0					0.59
24.500	0.00	0.03	0.062	I	0					0.59
24.583	0.00	0.03	0.062	I	0					0.58
24.667	0.00	0.03	0.062	I	0					0.58
24.750	0.00	0.03	0.062	I	0					0.58
24.833	0.00	0.03	0.061	I	0					0.58
24.917	0.00	0.03	0.061	I	0					0.58
25.000	0.00	0.03	0.061	I	0					0.58
25.083	0.00	0.03	0.061	I	0					0.57
25.167	0.00	0.03	0.061	I	0					0.57
25.250	0.00	0.03	0.060	I	0					0.57
25.333	0.00	0.03	0.060	I	0					0.57
25.417	0.00	0.03	0.060	I	0					0.57
25.500	0.00	0.03	0.060	I	0					0.57
25.583	0.00	0.03	0.060	I	0					0.56
25.667	0.00	0.02	0.059	I	0					0.56
25.750	0.00	0.02	0.059	I	0					0.56
25.833	0.00	0.02	0.059	I	0					0.56
25.917	0.00	0.02	0.059	I	0					0.56
26.000	0.00	0.02	0.059	I	0					0.56
26.083	0.00	0.02	0.059	I	0					0.56
26.167	0.00	0.02	0.058	I	0					0.55
26.250	0.00	0.02	0.058	I	0					0.55
26.333	0.00	0.02	0.058	I	0					0.55
26.417	0.00	0.02	0.058	I	0					0.55
26.500	0.00	0.02	0.058	I	0					0.55
26.583	0.00	0.02	0.058	I	0					0.55
26.667	0.00	0.02	0.058	I	0					0.55
26.750	0.00	0.02	0.058	I	0					0.55
26.833	0.00	0.02	0.057	IO						0.55
26.917	0.00	0.02	0.057	IO						0.54

27.000	0.00	0.02	0.057	IO					0.54
27.083	0.00	0.02	0.057	IO					0.54
27.167	0.00	0.02	0.057	IO					0.54
27.250	0.00	0.02	0.057	IO					0.54
27.333	0.00	0.02	0.057	IO					0.54
27.417	0.00	0.02	0.057	IO					0.54
27.500	0.00	0.01	0.056	IO					0.54
27.583	0.00	0.01	0.056	IO					0.54
27.667	0.00	0.01	0.056	IO					0.54
27.750	0.00	0.01	0.056	IO					0.54
27.833	0.00	0.01	0.056	IO					0.53
27.917	0.00	0.01	0.056	IO					0.53
28.000	0.00	0.01	0.056	IO					0.53
28.083	0.00	0.01	0.056	IO					0.53
28.167	0.00	0.01	0.056	IO					0.53
28.250	0.00	0.01	0.056	IO					0.53
28.333	0.00	0.01	0.056	IO					0.53
28.417	0.00	0.01	0.055	IO					0.53
28.500	0.00	0.01	0.055	IO					0.53
28.583	0.00	0.01	0.055	IO					0.53
28.667	0.00	0.01	0.055	IO					0.53
28.750	0.00	0.01	0.055	IO					0.53
28.833	0.00	0.01	0.055	IO					0.53
28.917	0.00	0.01	0.055	IO					0.53
29.000	0.00	0.01	0.055	IO					0.53
29.083	0.00	0.01	0.055	IO					0.52
29.167	0.00	0.01	0.055	IO					0.52
29.250	0.00	0.01	0.055	IO					0.52
29.333	0.00	0.01	0.055	0					0.52
29.417	0.00	0.01	0.055	0					0.52
29.500	0.00	0.01	0.055	0					0.52
29.583	0.00	0.01	0.055	0					0.52
29.667	0.00	0.01	0.054	0					0.52
29.750	0.00	0.01	0.054	0					0.52
29.833	0.00	0.01	0.054	0					0.52
29.917	0.00	0.01	0.054	0					0.52
30.000	0.00	0.01	0.054	0					0.52
30.083	0.00	0.01	0.054	0					0.52
30.167	0.00	0.01	0.054	0					0.52
30.250	0.00	0.01	0.054	0					0.52
30.333	0.00	0.01	0.054	0					0.52
30.417	0.00	0.01	0.054	0					0.52
30.500	0.00	0.01	0.054	0					0.52
30.583	0.00	0.01	0.054	0					0.52
30.667	0.00	0.01	0.054	0					0.52
30.750	0.00	0.01	0.054	0					0.52
30.833	0.00	0.01	0.054	0					0.52
30.917	0.00	0.01	0.054	0					0.51
31.000	0.00	0.01	0.054	0					0.51
31.083	0.00	0.01	0.054	0					0.51

31.167	0.00	0.01	0.054	0					0.51
31.250	0.00	0.01	0.054	0					0.51
31.333	0.00	0.01	0.054	0					0.51
31.417	0.00	0.01	0.054	0					0.51
31.500	0.00	0.00	0.053	0					0.51
31.583	0.00	0.00	0.053	0					0.51
31.667	0.00	0.00	0.053	0					0.51
31.750	0.00	0.00	0.053	0					0.51
31.833	0.00	0.00	0.053	0					0.51
31.917	0.00	0.00	0.053	0					0.51
32.000	0.00	0.00	0.053	0					0.51
32.083	0.00	0.00	0.053	0					0.51
32.167	0.00	0.00	0.053	0					0.51
32.250	0.00	0.00	0.053	0					0.51
32.333	0.00	0.00	0.053	0					0.51
32.417	0.00	0.00	0.053	0					0.51
32.500	0.00	0.00	0.053	0					0.51
32.583	0.00	0.00	0.053	0					0.51
32.667	0.00	0.00	0.053	0					0.51
32.750	0.00	0.00	0.053	0					0.51
32.833	0.00	0.00	0.053	0					0.51
32.917	0.00	0.00	0.053	0					0.51
33.000	0.00	0.00	0.053	0					0.51
33.083	0.00	0.00	0.053	0					0.51
33.167	0.00	0.00	0.053	0					0.51
33.250	0.00	0.00	0.053	0					0.51
33.333	0.00	0.00	0.053	0					0.51
33.417	0.00	0.00	0.053	0					0.51
33.500	0.00	0.00	0.053	0					0.51
33.583	0.00	0.00	0.053	0					0.51
33.667	0.00	0.00	0.053	0					0.51
33.750	0.00	0.00	0.053	0					0.51
33.833	0.00	0.00	0.053	0					0.51
33.917	0.00	0.00	0.053	0					0.51
34.000	0.00	0.00	0.053	0					0.51
34.083	0.00	0.00	0.053	0					0.51
34.167	0.00	0.00	0.053	0					0.51
34.250	0.00	0.00	0.053	0					0.51
34.333	0.00	0.00	0.053	0					0.51
34.417	0.00	0.00	0.053	0					0.51
34.500	0.00	0.00	0.053	0					0.51
34.583	0.00	0.00	0.053	0					0.51
34.667	0.00	0.00	0.053	0					0.51
34.750	0.00	0.00	0.053	0					0.51
34.833	0.00	0.00	0.053	0					0.51
34.917	0.00	0.00	0.053	0					0.50
35.000	0.00	0.00	0.053	0					0.50
35.083	0.00	0.00	0.053	0					0.50
35.167	0.00	0.00	0.053	0					0.50
35.250	0.00	0.00	0.053	0					0.50

35.333	0.00	0.00	0.053	0					0.50
35.417	0.00	0.00	0.053	0					0.50
35.500	0.00	0.00	0.052	0					0.50
35.583	0.00	0.00	0.052	0					0.50
35.667	0.00	0.00	0.052	0					0.50
35.750	0.00	0.00	0.052	0					0.50
35.833	0.00	0.00	0.052	0					0.50
35.917	0.00	0.00	0.052	0					0.50
36.000	0.00	0.00	0.052	0					0.50
36.083	0.00	0.00	0.052	0					0.50
36.167	0.00	0.00	0.052	0					0.50
36.250	0.00	0.00	0.052	0					0.50
36.333	0.00	0.00	0.052	0					0.50
36.417	0.00	0.00	0.052	0					0.50
36.500	0.00	0.00	0.052	0					0.50
36.583	0.00	0.00	0.052	0					0.50
36.667	0.00	0.00	0.052	0					0.50
36.750	0.00	0.00	0.052	0					0.50
36.833	0.00	0.00	0.052	0					0.50
36.917	0.00	0.00	0.052	0					0.50
37.000	0.00	0.00	0.052	0					0.50
37.083	0.00	0.00	0.052	0					0.50
37.167	0.00	0.00	0.052	0					0.50
37.250	0.00	0.00	0.052	0					0.50
37.333	0.00	0.00	0.052	0					0.50
37.417	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 449
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.171 (CFS)
Total volume = 0.125 (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

DMA 2 Proposed 5-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 5YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: a21626DMA2Q100UH15.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.495 (CFS)
Total volume = 0.068 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 13

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	0	0.6	1.25	1.87	2.50	Depth (Ft.)
0.083	0.28	0.00	0.001	0	I				0.01
0.167	0.40	0.00	0.003	0	I				0.03
0.250	0.46	0.00	0.006	0	I				0.06
0.333	0.48	0.00	0.010	0	I				0.09
0.417	0.50	0.00	0.013	0	I				0.12
0.500	0.56	0.00	0.017	0	I				0.16
0.583	0.67	0.00	0.021	0	I				0.20
0.667	0.82	0.00	0.026	0	I				0.25
0.750	1.20	0.00	0.033	0	I	I			0.32
0.833	2.50	0.00	0.046	0				I	0.44
0.917	1.33	0.02	0.059	0		I			0.56
1.000	0.51	0.04	0.065	0	I				0.61
1.083	0.12	0.05	0.067	OI					0.62
1.167	0.00	0.05	0.067	0					0.63
1.250	0.00	0.05	0.066	0					0.62
1.333	0.00	0.05	0.066	0					0.62
1.417	0.00	0.05	0.066	0					0.62
1.500	0.00	0.04	0.065	0					0.61
1.583	0.00	0.04	0.065	0					0.61
1.667	0.00	0.04	0.065	0					0.61
1.750	0.00	0.04	0.065	0					0.61
1.833	0.00	0.04	0.064	0					0.60
1.917	0.00	0.04	0.064	0					0.60

2.000	0.00	0.04	0.064	0				0.60
2.083	0.00	0.04	0.063	0				0.60
2.167	0.00	0.04	0.063	0				0.60
2.250	0.00	0.04	0.063	0				0.59
2.333	0.00	0.04	0.063	0				0.59
2.417	0.00	0.03	0.062	0				0.59
2.500	0.00	0.03	0.062	0				0.59
2.583	0.00	0.03	0.062	0				0.58
2.667	0.00	0.03	0.062	0				0.58
2.750	0.00	0.03	0.062	0				0.58
2.833	0.00	0.03	0.061	0				0.58
2.917	0.00	0.03	0.061	0				0.58
3.000	0.00	0.03	0.061	0				0.58
3.083	0.00	0.03	0.061	0				0.57
3.167	0.00	0.03	0.061	0				0.57
3.250	0.00	0.03	0.060	0				0.57
3.333	0.00	0.03	0.060	0				0.57
3.417	0.00	0.03	0.060	0				0.57
3.500	0.00	0.03	0.060	0				0.57
3.583	0.00	0.03	0.060	0				0.56
3.667	0.00	0.02	0.059	0				0.56
3.750	0.00	0.02	0.059	0				0.56
3.833	0.00	0.02	0.059	0				0.56
3.917	0.00	0.02	0.059	0				0.56
4.000	0.00	0.02	0.059	0				0.56
4.083	0.00	0.02	0.059	0				0.56
4.167	0.00	0.02	0.058	0				0.55
4.250	0.00	0.02	0.058	0				0.55
4.333	0.00	0.02	0.058	0				0.55
4.417	0.00	0.02	0.058	0				0.55
4.500	0.00	0.02	0.058	0				0.55
4.583	0.00	0.02	0.058	0				0.55
4.667	0.00	0.02	0.058	0				0.55
4.750	0.00	0.02	0.058	0				0.55
4.833	0.00	0.02	0.057	0				0.55
4.917	0.00	0.02	0.057	0				0.54
5.000	0.00	0.02	0.057	0				0.54
5.083	0.00	0.02	0.057	0				0.54
5.167	0.00	0.02	0.057	0				0.54
5.250	0.00	0.02	0.057	0				0.54
5.333	0.00	0.02	0.057	0				0.54
5.417	0.00	0.02	0.057	0				0.54
5.500	0.00	0.01	0.056	0				0.54
5.583	0.00	0.01	0.056	0				0.54
5.667	0.00	0.01	0.056	0				0.54
5.750	0.00	0.01	0.056	0				0.54
5.833	0.00	0.01	0.056	0				0.53
5.917	0.00	0.01	0.056	0				0.53
6.000	0.00	0.01	0.056	0				0.53
6.083	0.00	0.01	0.056	0				0.53

6.167	0.00	0.01	0.056	0					0.53
6.250	0.00	0.01	0.056	0					0.53
6.333	0.00	0.01	0.056	0					0.53
6.417	0.00	0.01	0.055	0					0.53
6.500	0.00	0.01	0.055	0					0.53
6.583	0.00	0.01	0.055	0					0.53
6.667	0.00	0.01	0.055	0					0.53
6.750	0.00	0.01	0.055	0					0.53
6.833	0.00	0.01	0.055	0					0.53
6.917	0.00	0.01	0.055	0					0.53
7.000	0.00	0.01	0.055	0					0.53
7.083	0.00	0.01	0.055	0					0.52
7.167	0.00	0.01	0.055	0					0.52
7.250	0.00	0.01	0.055	0					0.52
7.333	0.00	0.01	0.055	0					0.52
7.417	0.00	0.01	0.055	0					0.52
7.500	0.00	0.01	0.055	0					0.52
7.583	0.00	0.01	0.055	0					0.52
7.667	0.00	0.01	0.054	0					0.52
7.750	0.00	0.01	0.054	0					0.52
7.833	0.00	0.01	0.054	0					0.52
7.917	0.00	0.01	0.054	0					0.52
8.000	0.00	0.01	0.054	0					0.52
8.083	0.00	0.01	0.054	0					0.52
8.167	0.00	0.01	0.054	0					0.52
8.250	0.00	0.01	0.054	0					0.52
8.333	0.00	0.01	0.054	0					0.52
8.417	0.00	0.01	0.054	0					0.52
8.500	0.00	0.01	0.054	0					0.52
8.583	0.00	0.01	0.054	0					0.52
8.667	0.00	0.01	0.054	0					0.52
8.750	0.00	0.01	0.054	0					0.52
8.833	0.00	0.01	0.054	0					0.52
8.917	0.00	0.01	0.054	0					0.51
9.000	0.00	0.01	0.054	0					0.51
9.083	0.00	0.01	0.054	0					0.51
9.167	0.00	0.01	0.054	0					0.51
9.250	0.00	0.01	0.054	0					0.51
9.333	0.00	0.01	0.054	0					0.51
9.417	0.00	0.01	0.054	0					0.51
9.500	0.00	0.00	0.053	0					0.51
9.583	0.00	0.00	0.053	0					0.51
9.667	0.00	0.00	0.053	0					0.51
9.750	0.00	0.00	0.053	0					0.51
9.833	0.00	0.00	0.053	0					0.51
9.917	0.00	0.00	0.053	0					0.51
10.000	0.00	0.00	0.053	0					0.51
10.083	0.00	0.00	0.053	0					0.51
10.167	0.00	0.00	0.053	0					0.51
10.250	0.00	0.00	0.053	0					0.51

10.333	0.00	0.00	0.053	0					0.51
10.417	0.00	0.00	0.053	0					0.51
10.500	0.00	0.00	0.053	0					0.51
10.583	0.00	0.00	0.053	0					0.51
10.667	0.00	0.00	0.053	0					0.51
10.750	0.00	0.00	0.053	0					0.51
10.833	0.00	0.00	0.053	0					0.51
10.917	0.00	0.00	0.053	0					0.51
11.000	0.00	0.00	0.053	0					0.51
11.083	0.00	0.00	0.053	0					0.51
11.167	0.00	0.00	0.053	0					0.51
11.250	0.00	0.00	0.053	0					0.51
11.333	0.00	0.00	0.053	0					0.51
11.417	0.00	0.00	0.053	0					0.51
11.500	0.00	0.00	0.053	0					0.51
11.583	0.00	0.00	0.053	0					0.51
11.667	0.00	0.00	0.053	0					0.51
11.750	0.00	0.00	0.053	0					0.51
11.833	0.00	0.00	0.053	0					0.51
11.917	0.00	0.00	0.053	0					0.51
12.000	0.00	0.00	0.053	0					0.51
12.083	0.00	0.00	0.053	0					0.51
12.167	0.00	0.00	0.053	0					0.51
12.250	0.00	0.00	0.053	0					0.51
12.333	0.00	0.00	0.053	0					0.51
12.417	0.00	0.00	0.053	0					0.51
12.500	0.00	0.00	0.053	0					0.51
12.583	0.00	0.00	0.053	0					0.51
12.667	0.00	0.00	0.053	0					0.51
12.750	0.00	0.00	0.053	0					0.51
12.833	0.00	0.00	0.053	0					0.51
12.917	0.00	0.00	0.053	0					0.50
13.000	0.00	0.00	0.053	0					0.50
13.083	0.00	0.00	0.053	0					0.50
13.167	0.00	0.00	0.053	0					0.50
13.250	0.00	0.00	0.053	0					0.50
13.333	0.00	0.00	0.053	0					0.50
13.417	0.00	0.00	0.053	0					0.50
13.500	0.00	0.00	0.052	0					0.50
13.583	0.00	0.00	0.052	0					0.50
13.667	0.00	0.00	0.052	0					0.50
13.750	0.00	0.00	0.052	0					0.50
13.833	0.00	0.00	0.052	0					0.50
13.917	0.00	0.00	0.052	0					0.50
14.000	0.00	0.00	0.052	0					0.50
14.083	0.00	0.00	0.052	0					0.50
14.167	0.00	0.00	0.052	0					0.50
14.250	0.00	0.00	0.052	0					0.50
14.333	0.00	0.00	0.052	0					0.50
14.417	0.00	0.00	0.052	0					0.50

14.500	0.00	0.00	0.052	0					0.50
14.583	0.00	0.00	0.052	0					0.50
14.667	0.00	0.00	0.052	0					0.50
14.750	0.00	0.00	0.052	0					0.50
14.833	0.00	0.00	0.052	0					0.50
14.917	0.00	0.00	0.052	0					0.50
15.000	0.00	0.00	0.052	0					0.50
15.083	0.00	0.00	0.052	0					0.50
15.167	0.00	0.00	0.052	0					0.50
15.250	0.00	0.00	0.052	0					0.50
15.333	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 184

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.049 (CFS)

Total volume = 0.015 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 2 5YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH35.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.337 (CFS)
Total volume = 0.104 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.3	0.67	1.00	1.34	Depth (Ft.)
0.083	0.14	0.00	0.000	0	I				0.00
0.167	0.19	0.00	0.002	0	I				0.02
0.250	0.17	0.00	0.003	0	I				0.03
0.333	0.20	0.00	0.004	0	I				0.04
0.417	0.22	0.00	0.006	0	I				0.05
0.500	0.25	0.00	0.007	0	I				0.07
0.583	0.23	0.00	0.009	0	I				0.08
0.667	0.25	0.00	0.010	0	I				0.10
0.750	0.26	0.00	0.012	0	I				0.12
0.833	0.23	0.00	0.014	0	I				0.13
0.917	0.23	0.00	0.015	0	I				0.15
1.000	0.25	0.00	0.017	0	I				0.16
1.083	0.30	0.00	0.019	0	I				0.18
1.167	0.32	0.00	0.021	0	I				0.20
1.250	0.32	0.00	0.023	0	I				0.22
1.333	0.30	0.00	0.025	0	I				0.24
1.417	0.35	0.00	0.028	0	I				0.27
1.500	0.39	0.00	0.030	0	I				0.29
1.583	0.36	0.00	0.033	0	I				0.32
1.667	0.38	0.00	0.035	0	I				0.34
1.750	0.45	0.00	0.038	0	I				0.37
1.833	0.46	0.00	0.041	0	I				0.40
1.917	0.43	0.00	0.044	0	I				0.43

6.167	0.00	0.06	0.071	IO					0.66
6.250	0.00	0.06	0.070	IO					0.66
6.333	0.00	0.06	0.070	IO					0.65
6.417	0.00	0.06	0.070	IO					0.65
6.500	0.00	0.06	0.069	IO					0.65
6.583	0.00	0.06	0.069	IO					0.64
6.667	0.00	0.05	0.068	IO					0.64
6.750	0.00	0.05	0.068	IO					0.64
6.833	0.00	0.05	0.068	IO					0.63
6.917	0.00	0.05	0.067	IO					0.63
7.000	0.00	0.05	0.067	IO					0.63
7.083	0.00	0.05	0.067	IO					0.62
7.167	0.00	0.05	0.066	IO					0.62
7.250	0.00	0.05	0.066	IO					0.62
7.333	0.00	0.05	0.066	IO					0.62
7.417	0.00	0.04	0.065	IO					0.61
7.500	0.00	0.04	0.065	IO					0.61
7.583	0.00	0.04	0.065	IO					0.61
7.667	0.00	0.04	0.065	0					0.61
7.750	0.00	0.04	0.064	0					0.60
7.833	0.00	0.04	0.064	0					0.60
7.917	0.00	0.04	0.064	0					0.60
8.000	0.00	0.04	0.063	0					0.60
8.083	0.00	0.04	0.063	0					0.59
8.167	0.00	0.04	0.063	0					0.59
8.250	0.00	0.04	0.063	0					0.59
8.333	0.00	0.03	0.062	0					0.59
8.417	0.00	0.03	0.062	0					0.59
8.500	0.00	0.03	0.062	0					0.58
8.583	0.00	0.03	0.062	0					0.58
8.667	0.00	0.03	0.062	0					0.58
8.750	0.00	0.03	0.061	0					0.58
8.833	0.00	0.03	0.061	0					0.58
8.917	0.00	0.03	0.061	0					0.58
9.000	0.00	0.03	0.061	0					0.57
9.083	0.00	0.03	0.060	0					0.57
9.167	0.00	0.03	0.060	0					0.57
9.250	0.00	0.03	0.060	0					0.57
9.333	0.00	0.03	0.060	0					0.57
9.417	0.00	0.03	0.060	0					0.57
9.500	0.00	0.03	0.060	0					0.56
9.583	0.00	0.02	0.059	0					0.56
9.667	0.00	0.02	0.059	0					0.56
9.750	0.00	0.02	0.059	0					0.56
9.833	0.00	0.02	0.059	0					0.56
9.917	0.00	0.02	0.059	0					0.56
10.000	0.00	0.02	0.059	0					0.56
10.083	0.00	0.02	0.058	0					0.55
10.167	0.00	0.02	0.058	0					0.55
10.250	0.00	0.02	0.058	0					0.55

10.333	0.00	0.02	0.058	0					0.55
10.417	0.00	0.02	0.058	0					0.55
10.500	0.00	0.02	0.058	0					0.55
10.583	0.00	0.02	0.058	0					0.55
10.667	0.00	0.02	0.057	0					0.55
10.750	0.00	0.02	0.057	0					0.55
10.833	0.00	0.02	0.057	0					0.54
10.917	0.00	0.02	0.057	0					0.54
11.000	0.00	0.02	0.057	0					0.54
11.083	0.00	0.02	0.057	0					0.54
11.167	0.00	0.02	0.057	0					0.54
11.250	0.00	0.02	0.057	0					0.54
11.333	0.00	0.02	0.057	0					0.54
11.417	0.00	0.01	0.056	0					0.54
11.500	0.00	0.01	0.056	0					0.54
11.583	0.00	0.01	0.056	0					0.54
11.667	0.00	0.01	0.056	0					0.54
11.750	0.00	0.01	0.056	0					0.54
11.833	0.00	0.01	0.056	0					0.53
11.917	0.00	0.01	0.056	0					0.53
12.000	0.00	0.01	0.056	0					0.53
12.083	0.00	0.01	0.056	0					0.53
12.167	0.00	0.01	0.056	0					0.53
12.250	0.00	0.01	0.056	0					0.53
12.333	0.00	0.01	0.055	0					0.53
12.417	0.00	0.01	0.055	0					0.53
12.500	0.00	0.01	0.055	0					0.53
12.583	0.00	0.01	0.055	0					0.53
12.667	0.00	0.01	0.055	0					0.53
12.750	0.00	0.01	0.055	0					0.53
12.833	0.00	0.01	0.055	0					0.53
12.917	0.00	0.01	0.055	0					0.53
13.000	0.00	0.01	0.055	0					0.52
13.083	0.00	0.01	0.055	0					0.52
13.167	0.00	0.01	0.055	0					0.52
13.250	0.00	0.01	0.055	0					0.52
13.333	0.00	0.01	0.055	0					0.52
13.417	0.00	0.01	0.055	0					0.52
13.500	0.00	0.01	0.055	0					0.52
13.583	0.00	0.01	0.054	0					0.52
13.667	0.00	0.01	0.054	0					0.52
13.750	0.00	0.01	0.054	0					0.52
13.833	0.00	0.01	0.054	0					0.52
13.917	0.00	0.01	0.054	0					0.52
14.000	0.00	0.01	0.054	0					0.52
14.083	0.00	0.01	0.054	0					0.52
14.167	0.00	0.01	0.054	0					0.52
14.250	0.00	0.01	0.054	0					0.52
14.333	0.00	0.01	0.054	0					0.52
14.417	0.00	0.01	0.054	0					0.52

14.500	0.00	0.01	0.054	0					0.52
14.583	0.00	0.01	0.054	0					0.52
14.667	0.00	0.01	0.054	0					0.52
14.750	0.00	0.01	0.054	0					0.52
14.833	0.00	0.01	0.054	0					0.51
14.917	0.00	0.01	0.054	0					0.51
15.000	0.00	0.01	0.054	0					0.51
15.083	0.00	0.01	0.054	0					0.51
15.167	0.00	0.01	0.054	0					0.51
15.250	0.00	0.01	0.054	0					0.51
15.333	0.00	0.01	0.054	0					0.51
15.417	0.00	0.00	0.053	0					0.51
15.500	0.00	0.00	0.053	0					0.51
15.583	0.00	0.00	0.053	0					0.51
15.667	0.00	0.00	0.053	0					0.51
15.750	0.00	0.00	0.053	0					0.51
15.833	0.00	0.00	0.053	0					0.51
15.917	0.00	0.00	0.053	0					0.51
16.000	0.00	0.00	0.053	0					0.51
16.083	0.00	0.00	0.053	0					0.51
16.167	0.00	0.00	0.053	0					0.51
16.250	0.00	0.00	0.053	0					0.51
16.333	0.00	0.00	0.053	0					0.51
16.417	0.00	0.00	0.053	0					0.51
16.500	0.00	0.00	0.053	0					0.51
16.583	0.00	0.00	0.053	0					0.51
16.667	0.00	0.00	0.053	0					0.51
16.750	0.00	0.00	0.053	0					0.51
16.833	0.00	0.00	0.053	0					0.51
16.917	0.00	0.00	0.053	0					0.51
17.000	0.00	0.00	0.053	0					0.51
17.083	0.00	0.00	0.053	0					0.51
17.167	0.00	0.00	0.053	0					0.51
17.250	0.00	0.00	0.053	0					0.51
17.333	0.00	0.00	0.053	0					0.51
17.417	0.00	0.00	0.053	0					0.51
17.500	0.00	0.00	0.053	0					0.51
17.583	0.00	0.00	0.053	0					0.51
17.667	0.00	0.00	0.053	0					0.51
17.750	0.00	0.00	0.053	0					0.51
17.833	0.00	0.00	0.053	0					0.51
17.917	0.00	0.00	0.053	0					0.51
18.000	0.00	0.00	0.053	0					0.51
18.083	0.00	0.00	0.053	0					0.51
18.167	0.00	0.00	0.053	0					0.51
18.250	0.00	0.00	0.053	0					0.51
18.333	0.00	0.00	0.053	0					0.51
18.417	0.00	0.00	0.053	0					0.51
18.500	0.00	0.00	0.053	0					0.51
18.583	0.00	0.00	0.053	0					0.51

18.667	0.00	0.00	0.053	0					0.51
18.750	0.00	0.00	0.053	0					0.51
18.833	0.00	0.00	0.053	0					0.50
18.917	0.00	0.00	0.053	0					0.50
19.000	0.00	0.00	0.053	0					0.50
19.083	0.00	0.00	0.053	0					0.50
19.167	0.00	0.00	0.053	0					0.50
19.250	0.00	0.00	0.053	0					0.50
19.333	0.00	0.00	0.053	0					0.50
19.417	0.00	0.00	0.052	0					0.50
19.500	0.00	0.00	0.052	0					0.50
19.583	0.00	0.00	0.052	0					0.50
19.667	0.00	0.00	0.052	0					0.50
19.750	0.00	0.00	0.052	0					0.50
19.833	0.00	0.00	0.052	0					0.50
19.917	0.00	0.00	0.052	0					0.50
20.000	0.00	0.00	0.052	0					0.50
20.083	0.00	0.00	0.052	0					0.50
20.167	0.00	0.00	0.052	0					0.50
20.250	0.00	0.00	0.052	0					0.50
20.333	0.00	0.00	0.052	0					0.50
20.417	0.00	0.00	0.052	0					0.50
20.500	0.00	0.00	0.052	0					0.50
20.583	0.00	0.00	0.052	0					0.50
20.667	0.00	0.00	0.052	0					0.50
20.750	0.00	0.00	0.052	0					0.50
20.833	0.00	0.00	0.052	0					0.50
20.917	0.00	0.00	0.052	0					0.50
21.000	0.00	0.00	0.052	0					0.50
21.083	0.00	0.00	0.052	0					0.50
21.167	0.00	0.00	0.052	0					0.50
21.250	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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*****HYDROGRAPH DATA*****
      Number of intervals = 255
      Time interval = 5.0 (Min.)
      Maximum/Peak flow rate = 0.148 (CFS)
      Total volume = 0.051 (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 - 2018
Study date: 08/24/22

A21626 DMA 2 5YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH65.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.228 (CFS)
Total volume = 0.141 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.3	0.61	0.92	1.23	Depth (Ft.)
0.083	0.07	0.00	0.000	OI					0.00
0.167	0.11	0.00	0.001	O I					0.01
0.250	0.12	0.00	0.002	O I					0.02
0.333	0.12	0.00	0.003	O I					0.02
0.417	0.12	0.00	0.003	O I					0.03
0.500	0.14	0.00	0.004	O I					0.04
0.583	0.14	0.00	0.005	O I					0.05
0.667	0.14	0.00	0.006	O I					0.06
0.750	0.14	0.00	0.007	O I					0.07
0.833	0.14	0.00	0.008	O I					0.08
0.917	0.14	0.00	0.009	O I					0.09
1.000	0.16	0.00	0.010	O I					0.10
1.083	0.16	0.00	0.011	O I					0.11
1.167	0.16	0.00	0.012	O I					0.12
1.250	0.16	0.00	0.013	O I					0.13
1.333	0.16	0.00	0.015	O I					0.14
1.417	0.16	0.00	0.016	O I					0.15
1.500	0.16	0.00	0.017	O I					0.16
1.583	0.16	0.00	0.018	O I					0.17
1.667	0.16	0.00	0.019	O I					0.18
1.750	0.16	0.00	0.020	O I					0.19
1.833	0.16	0.00	0.021	O I					0.20
1.917	0.16	0.00	0.022	O I					0.21

6.167	0.00	0.20	0.117	I	0					1.05
6.250	0.00	0.20	0.116	I	0					1.04
6.333	0.00	0.20	0.115	I	0					1.03
6.417	0.00	0.20	0.113	I	0					1.02
6.500	0.00	0.20	0.112	I	0					1.01
6.583	0.00	0.20	0.111	I	0					1.00
6.667	0.00	0.19	0.109	I	0					0.99
6.750	0.00	0.19	0.108	I	0					0.97
6.833	0.00	0.18	0.107	I	0					0.96
6.917	0.00	0.18	0.105	I	0					0.95
7.000	0.00	0.17	0.104	I	0					0.94
7.083	0.00	0.17	0.103	I	0					0.93
7.167	0.00	0.17	0.102	I	0					0.92
7.250	0.00	0.16	0.101	I	0					0.91
7.333	0.00	0.16	0.100	I	0					0.90
7.417	0.00	0.16	0.099	I	0					0.89
7.500	0.00	0.15	0.098	I	0					0.89
7.583	0.00	0.15	0.097	I	0					0.88
7.667	0.00	0.14	0.096	I	0					0.87
7.750	0.00	0.14	0.095	I	0					0.86
7.833	0.00	0.14	0.094	I	0					0.85
7.917	0.00	0.14	0.093	I	0					0.84
8.000	0.00	0.13	0.092	I	0					0.84
8.083	0.00	0.13	0.091	I	0					0.83
8.167	0.00	0.13	0.090	I	0					0.82
8.250	0.00	0.12	0.089	I	0					0.81
8.333	0.00	0.12	0.088	I	0					0.81
8.417	0.00	0.12	0.087	I	0					0.80
8.500	0.00	0.12	0.087	I	0					0.79
8.583	0.00	0.11	0.086	I	0					0.79
8.667	0.00	0.11	0.085	I	0					0.78
8.750	0.00	0.11	0.084	I	0					0.77
8.833	0.00	0.11	0.084	I	0					0.77
8.917	0.00	0.10	0.083	I	0					0.76
9.000	0.00	0.10	0.082	I	0					0.76
9.083	0.00	0.10	0.081	I	0					0.75
9.167	0.00	0.10	0.081	I	0					0.74
9.250	0.00	0.09	0.080	I	0					0.74
9.333	0.00	0.09	0.080	I	0					0.73
9.417	0.00	0.09	0.079	I	0					0.73
9.500	0.00	0.09	0.078	I	0					0.72
9.583	0.00	0.09	0.078	I	0					0.72
9.667	0.00	0.08	0.077	I	0					0.71
9.750	0.00	0.08	0.077	I	0					0.71
9.833	0.00	0.08	0.076	I	0					0.70
9.917	0.00	0.08	0.075	I	0					0.70
10.000	0.00	0.08	0.075	IO						0.69
10.083	0.00	0.07	0.074	IO						0.69
10.167	0.00	0.07	0.074	IO						0.69
10.250	0.00	0.07	0.073	IO						0.68

10.333	0.00	0.07	0.073	IO					0.68
10.417	0.00	0.07	0.072	IO					0.67
10.500	0.00	0.07	0.072	IO					0.67
10.583	0.00	0.06	0.072	IO					0.67
10.667	0.00	0.06	0.071	IO					0.66
10.750	0.00	0.06	0.071	IO					0.66
10.833	0.00	0.06	0.070	IO					0.65
10.917	0.00	0.06	0.070	IO					0.65
11.000	0.00	0.06	0.069	IO					0.65
11.083	0.00	0.06	0.069	IO					0.64
11.167	0.00	0.06	0.069	IO					0.64
11.250	0.00	0.05	0.068	IO					0.64
11.333	0.00	0.05	0.068	IO					0.63
11.417	0.00	0.05	0.068	IO					0.63
11.500	0.00	0.05	0.067	IO					0.63
11.583	0.00	0.05	0.067	IO					0.63
11.667	0.00	0.05	0.066	IO					0.62
11.750	0.00	0.05	0.066	IO					0.62
11.833	0.00	0.05	0.066	IO					0.62
11.917	0.00	0.04	0.066	IO					0.61
12.000	0.00	0.04	0.065	IO					0.61
12.083	0.00	0.04	0.065	IO					0.61
12.167	0.00	0.04	0.065	IO					0.61
12.250	0.00	0.04	0.064	IO					0.60
12.333	0.00	0.04	0.064	IO					0.60
12.417	0.00	0.04	0.064	IO					0.60
12.500	0.00	0.04	0.064	0					0.60
12.583	0.00	0.04	0.063	0					0.60
12.667	0.00	0.04	0.063	0					0.59
12.750	0.00	0.04	0.063	0					0.59
12.833	0.00	0.03	0.063	0					0.59
12.917	0.00	0.03	0.062	0					0.59
13.000	0.00	0.03	0.062	0					0.59
13.083	0.00	0.03	0.062	0					0.58
13.167	0.00	0.03	0.062	0					0.58
13.250	0.00	0.03	0.061	0					0.58
13.333	0.00	0.03	0.061	0					0.58
13.417	0.00	0.03	0.061	0					0.58
13.500	0.00	0.03	0.061	0					0.57
13.583	0.00	0.03	0.061	0					0.57
13.667	0.00	0.03	0.060	0					0.57
13.750	0.00	0.03	0.060	0					0.57
13.833	0.00	0.03	0.060	0					0.57
13.917	0.00	0.03	0.060	0					0.57
14.000	0.00	0.03	0.060	0					0.56
14.083	0.00	0.02	0.059	0					0.56
14.167	0.00	0.02	0.059	0					0.56
14.250	0.00	0.02	0.059	0					0.56
14.333	0.00	0.02	0.059	0					0.56
14.417	0.00	0.02	0.059	0					0.56

14.500	0.00	0.02	0.059	0					0.56
14.583	0.00	0.02	0.058	0					0.56
14.667	0.00	0.02	0.058	0					0.55
14.750	0.00	0.02	0.058	0					0.55
14.833	0.00	0.02	0.058	0					0.55
14.917	0.00	0.02	0.058	0					0.55
15.000	0.00	0.02	0.058	0					0.55
15.083	0.00	0.02	0.058	0					0.55
15.167	0.00	0.02	0.058	0					0.55
15.250	0.00	0.02	0.057	0					0.55
15.333	0.00	0.02	0.057	0					0.54
15.417	0.00	0.02	0.057	0					0.54
15.500	0.00	0.02	0.057	0					0.54
15.583	0.00	0.02	0.057	0					0.54
15.667	0.00	0.02	0.057	0					0.54
15.750	0.00	0.02	0.057	0					0.54
15.833	0.00	0.02	0.057	0					0.54
15.917	0.00	0.01	0.056	0					0.54
16.000	0.00	0.01	0.056	0					0.54
16.083	0.00	0.01	0.056	0					0.54
16.167	0.00	0.01	0.056	0					0.54
16.250	0.00	0.01	0.056	0					0.53
16.333	0.00	0.01	0.056	0					0.53
16.417	0.00	0.01	0.056	0					0.53
16.500	0.00	0.01	0.056	0					0.53
16.583	0.00	0.01	0.056	0					0.53
16.667	0.00	0.01	0.056	0					0.53
16.750	0.00	0.01	0.056	0					0.53
16.833	0.00	0.01	0.055	0					0.53
16.917	0.00	0.01	0.055	0					0.53
17.000	0.00	0.01	0.055	0					0.53
17.083	0.00	0.01	0.055	0					0.53
17.167	0.00	0.01	0.055	0					0.53
17.250	0.00	0.01	0.055	0					0.53
17.333	0.00	0.01	0.055	0					0.53
17.417	0.00	0.01	0.055	0					0.53
17.500	0.00	0.01	0.055	0					0.52
17.583	0.00	0.01	0.055	0					0.52
17.667	0.00	0.01	0.055	0					0.52
17.750	0.00	0.01	0.055	0					0.52
17.833	0.00	0.01	0.055	0					0.52
17.917	0.00	0.01	0.055	0					0.52
18.000	0.00	0.01	0.055	0					0.52
18.083	0.00	0.01	0.054	0					0.52
18.167	0.00	0.01	0.054	0					0.52
18.250	0.00	0.01	0.054	0					0.52
18.333	0.00	0.01	0.054	0					0.52
18.417	0.00	0.01	0.054	0					0.52
18.500	0.00	0.01	0.054	0					0.52
18.583	0.00	0.01	0.054	0					0.52

18.667	0.00	0.01	0.054	0					0.52
18.750	0.00	0.01	0.054	0					0.52
18.833	0.00	0.01	0.054	0					0.52
18.917	0.00	0.01	0.054	0					0.52
19.000	0.00	0.01	0.054	0					0.52
19.083	0.00	0.01	0.054	0					0.52
19.167	0.00	0.01	0.054	0					0.52
19.250	0.00	0.01	0.054	0					0.52
19.333	0.00	0.01	0.054	0					0.51
19.417	0.00	0.01	0.054	0					0.51
19.500	0.00	0.01	0.054	0					0.51
19.583	0.00	0.01	0.054	0					0.51
19.667	0.00	0.01	0.054	0					0.51
19.750	0.00	0.01	0.054	0					0.51
19.833	0.00	0.01	0.054	0					0.51
19.917	0.00	0.00	0.053	0					0.51
20.000	0.00	0.00	0.053	0					0.51
20.083	0.00	0.00	0.053	0					0.51
20.167	0.00	0.00	0.053	0					0.51
20.250	0.00	0.00	0.053	0					0.51
20.333	0.00	0.00	0.053	0					0.51
20.417	0.00	0.00	0.053	0					0.51
20.500	0.00	0.00	0.053	0					0.51
20.583	0.00	0.00	0.053	0					0.51
20.667	0.00	0.00	0.053	0					0.51
20.750	0.00	0.00	0.053	0					0.51
20.833	0.00	0.00	0.053	0					0.51
20.917	0.00	0.00	0.053	0					0.51
21.000	0.00	0.00	0.053	0					0.51
21.083	0.00	0.00	0.053	0					0.51
21.167	0.00	0.00	0.053	0					0.51
21.250	0.00	0.00	0.053	0					0.51
21.333	0.00	0.00	0.053	0					0.51
21.417	0.00	0.00	0.053	0					0.51
21.500	0.00	0.00	0.053	0					0.51
21.583	0.00	0.00	0.053	0					0.51
21.667	0.00	0.00	0.053	0					0.51
21.750	0.00	0.00	0.053	0					0.51
21.833	0.00	0.00	0.053	0					0.51
21.917	0.00	0.00	0.053	0					0.51
22.000	0.00	0.00	0.053	0					0.51
22.083	0.00	0.00	0.053	0					0.51
22.167	0.00	0.00	0.053	0					0.51
22.250	0.00	0.00	0.053	0					0.51
22.333	0.00	0.00	0.053	0					0.51
22.417	0.00	0.00	0.053	0					0.51
22.500	0.00	0.00	0.053	0					0.51
22.583	0.00	0.00	0.053	0					0.51
22.667	0.00	0.00	0.053	0					0.51
22.750	0.00	0.00	0.053	0					0.51

22.833	0.00	0.00	0.053	0					0.51
22.917	0.00	0.00	0.053	0					0.51
23.000	0.00	0.00	0.053	0					0.51
23.083	0.00	0.00	0.053	0					0.51
23.167	0.00	0.00	0.053	0					0.51
23.250	0.00	0.00	0.053	0					0.51
23.333	0.00	0.00	0.053	0					0.50
23.417	0.00	0.00	0.053	0					0.50
23.500	0.00	0.00	0.053	0					0.50
23.583	0.00	0.00	0.053	0					0.50
23.667	0.00	0.00	0.053	0					0.50
23.750	0.00	0.00	0.053	0					0.50
23.833	0.00	0.00	0.053	0					0.50
23.917	0.00	0.00	0.052	0					0.50
24.000	0.00	0.00	0.052	0					0.50
24.083	0.00	0.00	0.052	0					0.50
24.167	0.00	0.00	0.052	0					0.50
24.250	0.00	0.00	0.052	0					0.50
24.333	0.00	0.00	0.052	0					0.50
24.417	0.00	0.00	0.052	0					0.50
24.500	0.00	0.00	0.052	0					0.50
24.583	0.00	0.00	0.052	0					0.50
24.667	0.00	0.00	0.052	0					0.50
24.750	0.00	0.00	0.052	0					0.50
24.833	0.00	0.00	0.052	0					0.50
24.917	0.00	0.00	0.052	0					0.50
25.000	0.00	0.00	0.052	0					0.50
25.083	0.00	0.00	0.052	0					0.50
25.167	0.00	0.00	0.052	0					0.50
25.250	0.00	0.00	0.052	0					0.50
25.333	0.00	0.00	0.052	0					0.50
25.417	0.00	0.00	0.052	0					0.50
25.500	0.00	0.00	0.052	0					0.50
25.583	0.00	0.00	0.052	0					0.50
25.667	0.00	0.00	0.052	0					0.50
25.750	0.00	0.00	0.052	0					0.50
25.833	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 310

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.089 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000

Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 5YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH245.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.396 (CFS)
Total volume = 0.241 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	Depth (Ft.)					
				.0	0.1	0.20	0.30	0.40	
0.083	0.02	0.00	0.000	OI					0.00
0.167	0.02	0.00	0.000	OI					0.00
0.250	0.02	0.00	0.000	OI					0.00
0.333	0.03	0.00	0.001	O I					0.01
0.417	0.03	0.00	0.001	O I					0.01
0.500	0.03	0.00	0.001	O I					0.01
0.583	0.03	0.00	0.001	O I					0.01
0.667	0.03	0.00	0.001	O I					0.01
0.750	0.03	0.00	0.002	O I					0.02
0.833	0.04	0.00	0.002	O I					0.02
0.917	0.05	0.00	0.002	O I					0.02
1.000	0.05	0.00	0.003	O I					0.03
1.083	0.04	0.00	0.003	O I					0.03
1.167	0.03	0.00	0.003	O I					0.03
1.250	0.03	0.00	0.003	O I					0.03
1.333	0.03	0.00	0.004	O I					0.04
1.417	0.03	0.00	0.004	O I					0.04
1.500	0.03	0.00	0.004	O I					0.04
1.583	0.03	0.00	0.004	O I					0.04
1.667	0.03	0.00	0.005	O I					0.04
1.750	0.03	0.00	0.005	O I					0.05
1.833	0.04	0.00	0.005	O I					0.05
1.917	0.05	0.00	0.005	O I					0.05

2.000	0.05	0.00	0.006	0	I					0.06
2.083	0.05	0.00	0.006	0	I					0.06
2.167	0.05	0.00	0.006	0	I					0.06
2.250	0.05	0.00	0.007	0	I					0.06
2.333	0.05	0.00	0.007	0	I					0.07
2.417	0.05	0.00	0.007	0	I					0.07
2.500	0.05	0.00	0.008	0	I					0.07
2.583	0.06	0.00	0.008	0	I					0.08
2.667	0.06	0.00	0.008	0	I					0.08
2.750	0.06	0.00	0.009	0	I					0.08
2.833	0.06	0.00	0.009	0	I					0.09
2.917	0.06	0.00	0.010	0	I					0.09
3.000	0.06	0.00	0.010	0	I					0.10
3.083	0.06	0.00	0.010	0	I					0.10
3.167	0.06	0.00	0.011	0	I					0.10
3.250	0.06	0.00	0.011	0	I					0.11
3.333	0.06	0.00	0.012	0	I					0.11
3.417	0.06	0.00	0.012	0	I					0.12
3.500	0.06	0.00	0.012	0	I					0.12
3.583	0.06	0.00	0.013	0	I					0.12
3.667	0.06	0.00	0.013	0	I					0.13
3.750	0.06	0.00	0.014	0	I					0.13
3.833	0.07	0.00	0.014	0	I					0.14
3.917	0.07	0.00	0.015	0	I					0.14
4.000	0.07	0.00	0.015	0	I					0.14
4.083	0.07	0.00	0.016	0	I					0.15
4.167	0.07	0.00	0.016	0	I					0.15
4.250	0.07	0.00	0.016	0	I					0.16
4.333	0.08	0.00	0.017	0	I					0.16
4.417	0.08	0.00	0.018	0	I					0.17
4.500	0.08	0.00	0.018	0	I					0.17
4.583	0.08	0.00	0.019	0	I					0.18
4.667	0.08	0.00	0.019	0	I					0.18
4.750	0.08	0.00	0.020	0	I					0.19
4.833	0.09	0.00	0.020	0	I					0.20
4.917	0.09	0.00	0.021	0	I					0.20
5.000	0.09	0.00	0.022	0	I					0.21
5.083	0.08	0.00	0.022	0	I					0.21
5.167	0.07	0.00	0.023	0	I					0.22
5.250	0.07	0.00	0.023	0	I					0.22
5.333	0.08	0.00	0.024	0	I					0.23
5.417	0.08	0.00	0.024	0	I					0.23
5.500	0.08	0.00	0.025	0	I					0.24
5.583	0.09	0.00	0.025	0	I					0.24
5.667	0.09	0.00	0.026	0	I					0.25
5.750	0.09	0.00	0.027	0	I					0.26
5.833	0.09	0.00	0.027	0	I					0.26
5.917	0.09	0.00	0.028	0	I					0.27
6.000	0.09	0.00	0.029	0	I					0.28
6.083	0.10	0.00	0.029	0	I					0.28

6.167	0.10	0.00	0.030	0	I				0.29
6.250	0.10	0.00	0.031	0	I				0.30
6.333	0.10	0.00	0.031	0	I				0.30
6.417	0.10	0.00	0.032	0	I				0.31
6.500	0.10	0.00	0.033	0	I				0.32
6.583	0.11	0.00	0.034	0	I				0.32
6.667	0.12	0.00	0.034	0	I				0.33
6.750	0.12	0.00	0.035	0	I				0.34
6.833	0.12	0.00	0.036	0	I				0.35
6.917	0.12	0.00	0.037	0	I				0.35
7.000	0.12	0.00	0.038	0	I				0.36
7.083	0.12	0.00	0.038	0	I				0.37
7.167	0.12	0.00	0.039	0	I				0.38
7.250	0.12	0.00	0.040	0	I				0.39
7.333	0.12	0.00	0.041	0	I				0.39
7.417	0.13	0.00	0.042	0	I				0.40
7.500	0.13	0.00	0.043	0	I				0.41
7.583	0.14	0.00	0.044	0	I				0.42
7.667	0.14	0.00	0.045	0	I				0.43
7.750	0.14	0.00	0.045	0	I				0.44
7.833	0.15	0.00	0.046	0	I				0.45
7.917	0.15	0.00	0.048	0	I				0.46
8.000	0.15	0.00	0.049	0	I				0.47
8.083	0.17	0.00	0.050	0	I				0.48
8.167	0.17	0.00	0.051	0	I				0.49
8.250	0.17	0.00	0.052	0	I				0.50
8.333	0.17	0.00	0.053	0	I				0.51
8.417	0.17	0.01	0.054	0	I				0.52
8.500	0.17	0.01	0.056	0	I				0.53
8.583	0.18	0.02	0.057	0	I				0.54
8.667	0.19	0.02	0.058	0	I				0.55
8.750	0.19	0.02	0.059	0	I				0.56
8.833	0.19	0.03	0.060	0	I				0.57
8.917	0.20	0.03	0.061	0	I				0.58
9.000	0.20	0.03	0.062	0	I				0.59
9.083	0.21	0.04	0.064	0	I				0.60
9.167	0.22	0.04	0.065	0	I				0.61
9.250	0.22	0.05	0.066	0	I				0.62
9.333	0.23	0.05	0.067	0	I				0.63
9.417	0.23	0.05	0.068	0	I				0.64
9.500	0.23	0.06	0.070	0	I				0.65
9.583	0.24	0.06	0.071	0	I				0.66
9.667	0.24	0.07	0.072	0	I				0.67
9.750	0.24	0.07	0.073	0	I				0.68
9.833	0.25	0.07	0.075	0	I				0.69
9.917	0.26	0.08	0.076	0	I				0.70
10.000	0.26	0.08	0.077	0	I				0.71
10.083	0.20	0.09	0.078	0	I				0.72
10.167	0.17	0.09	0.079	0	I				0.73
10.250	0.17	0.09	0.079	0	I				0.73

10.333	0.17	0.09	0.080	0	I			0.74
10.417	0.17	0.09	0.080	0	I			0.74
10.500	0.17	0.10	0.081	0	I			0.74
10.583	0.22	0.10	0.082	0		I		0.75
10.667	0.23	0.10	0.082	0		I		0.76
10.750	0.23	0.10	0.083	0		I		0.77
10.833	0.23	0.11	0.084	0		I		0.77
10.917	0.23	0.11	0.085	0		I		0.78
11.000	0.23	0.11	0.086	0		I		0.79
11.083	0.22	0.12	0.087	0		I		0.79
11.167	0.22	0.12	0.087	0		I		0.80
11.250	0.22	0.12	0.088	0		I		0.81
11.333	0.22	0.12	0.089	0		I		0.81
11.417	0.22	0.12	0.089	0		I		0.82
11.500	0.22	0.13	0.090	0		I		0.82
11.583	0.20	0.13	0.091	0	I			0.83
11.667	0.20	0.13	0.091	0	I			0.83
11.750	0.20	0.13	0.092	0	I			0.84
11.833	0.21	0.13	0.092	0	I			0.84
11.917	0.21	0.14	0.093	0	I			0.84
12.000	0.21	0.14	0.093	0	I			0.85
12.083	0.27	0.14	0.094	0		I		0.85
12.167	0.29	0.14	0.095	0		I		0.86
12.250	0.29	0.15	0.096	0		I		0.87
12.333	0.30	0.15	0.097	0		I		0.88
12.417	0.30	0.15	0.098	0		I		0.89
12.500	0.30	0.16	0.099	0		I		0.90
12.583	0.32	0.16	0.100	0		I		0.91
12.667	0.33	0.16	0.101	0		I		0.92
12.750	0.33	0.17	0.102	0		I		0.93
12.833	0.33	0.17	0.103	0		I		0.93
12.917	0.34	0.17	0.104	0		I		0.94
13.000	0.34	0.18	0.106	0		I		0.95
13.083	0.38	0.18	0.107	0			I	0.96
13.167	0.40	0.19	0.108	0			I	0.98
13.250	0.40	0.19	0.110	0			I	0.99
13.333	0.40	0.20	0.111	0			I	1.00
13.417	0.40	0.20	0.112	0			I	1.01
13.500	0.40	0.20	0.114	0			I	1.02
13.583	0.30	0.20	0.115	0		I		1.03
13.667	0.27	0.20	0.115	0	I			1.03
13.750	0.27	0.20	0.116	0	I			1.04
13.833	0.27	0.20	0.116	0	I			1.04
13.917	0.27	0.20	0.117	0	I			1.04
14.000	0.27	0.20	0.117	0	I			1.05
14.083	0.30	0.20	0.118	0		I		1.05
14.167	0.31	0.20	0.119	0		I		1.06
14.250	0.31	0.20	0.120	0		I		1.07
14.333	0.31	0.20	0.120	0		I		1.07
14.417	0.30	0.20	0.121	0		I		1.08

14.500	0.30	0.20	0.122		0	I	1.08
14.583	0.30	0.20	0.123		0	I	1.09
14.667	0.30	0.20	0.123		0	I	1.09
14.750	0.30	0.20	0.124		0	I	1.10
14.833	0.29	0.20	0.125		0	I	1.10
14.917	0.29	0.20	0.125		0	I	1.11
15.000	0.29	0.20	0.126		0	I	1.11
15.083	0.28	0.20	0.127		0	I	1.12
15.167	0.28	0.20	0.127		0	I	1.12
15.250	0.28	0.20	0.128		0	I	1.13
15.333	0.27	0.20	0.128		0	I	1.13
15.417	0.27	0.20	0.129		0	I	1.14
15.500	0.27	0.20	0.129		0	I	1.14
15.583	0.23	0.20	0.130		0	I	1.14
15.667	0.22	0.20	0.130		0	I	1.14
15.750	0.22	0.20	0.130		0	I	1.15
15.833	0.22	0.20	0.130		0	I	1.15
15.917	0.22	0.20	0.131		0	I	1.15
16.000	0.22	0.20	0.131		0	I	1.15
16.083	0.10	0.20	0.130	I	0		1.15
16.167	0.05	0.20	0.130	I	0		1.14
16.250	0.05	0.20	0.129	I	0		1.13
16.333	0.05	0.20	0.128	I	0		1.13
16.417	0.05	0.20	0.126	I	0		1.12
16.500	0.05	0.20	0.125	I	0		1.11
16.583	0.04	0.20	0.124	I	0		1.10
16.667	0.03	0.20	0.123	I	0		1.09
16.750	0.03	0.20	0.122	I	0		1.08
16.833	0.03	0.20	0.121	I	0		1.08
16.917	0.03	0.20	0.120	I	0		1.07
17.000	0.03	0.20	0.119	I	0		1.06
17.083	0.05	0.20	0.118	I	0		1.05
17.167	0.06	0.20	0.117	I	0		1.04
17.250	0.06	0.20	0.116	I	0		1.04
17.333	0.06	0.20	0.115	I	0		1.03
17.417	0.06	0.20	0.114	I	0		1.02
17.500	0.06	0.20	0.113	I	0		1.02
17.583	0.06	0.20	0.112	I	0		1.01
17.667	0.06	0.20	0.111	I	0		1.00
17.750	0.06	0.19	0.110	I	0		0.99
17.833	0.05	0.19	0.109	I	0		0.98
17.917	0.05	0.19	0.108	I	0		0.98
18.000	0.05	0.18	0.107	I	0		0.97
18.083	0.05	0.18	0.106	I	0		0.96
18.167	0.05	0.18	0.105	I	0		0.95
18.250	0.05	0.17	0.105	I	0		0.95
18.333	0.05	0.17	0.104	I	0		0.94
18.417	0.05	0.17	0.103	I	0		0.93
18.500	0.05	0.17	0.102	I	0		0.92
18.583	0.04	0.16	0.101	I	0		0.92

18.667	0.03	0.16	0.100	I	0				0.91
18.750	0.03	0.16	0.099	I	0				0.90
18.833	0.03	0.15	0.099	I	0				0.89
18.917	0.02	0.15	0.098	I	0				0.89
19.000	0.02	0.15	0.097	I	0				0.88
19.083	0.03	0.15	0.096	I	0				0.87
19.167	0.03	0.14	0.095	I	0				0.87
19.250	0.03	0.14	0.094	I	0				0.86
19.333	0.04	0.14	0.094	I	0				0.85
19.417	0.05	0.14	0.093	I	0				0.85
19.500	0.05	0.13	0.093	I	0				0.84
19.583	0.04	0.13	0.092	I	0				0.84
19.667	0.03	0.13	0.091	I	0				0.83
19.750	0.03	0.13	0.091	I	0				0.83
19.833	0.03	0.13	0.090	I	0				0.82
19.917	0.02	0.12	0.089	I	0				0.82
20.000	0.02	0.12	0.089	I	0				0.81
20.083	0.03	0.12	0.088	I	0				0.80
20.167	0.03	0.12	0.087	I	0				0.80
20.250	0.03	0.12	0.087	I	0				0.79
20.333	0.03	0.11	0.086	I	0				0.79
20.417	0.03	0.11	0.086	I	0				0.79
20.500	0.03	0.11	0.085	I	0				0.78
20.583	0.03	0.11	0.085	I	0				0.78
20.667	0.03	0.11	0.084	I	0				0.77
20.750	0.03	0.11	0.084	I	0				0.77
20.833	0.03	0.10	0.083	I	0				0.76
20.917	0.02	0.10	0.083	I	0				0.76
21.000	0.02	0.10	0.082	I	0				0.75
21.083	0.03	0.10	0.082	I	0				0.75
21.167	0.03	0.10	0.081	I	0				0.75
21.250	0.03	0.10	0.081	I	0				0.74
21.333	0.03	0.09	0.080	I	0				0.74
21.417	0.02	0.09	0.080	I	0				0.74
21.500	0.02	0.09	0.079	I	0				0.73
21.583	0.03	0.09	0.079	I	0				0.73
21.667	0.03	0.09	0.079	I	0				0.72
21.750	0.03	0.09	0.078	I	0				0.72
21.833	0.03	0.09	0.078	I	0				0.72
21.917	0.02	0.08	0.077	I	0				0.71
22.000	0.02	0.08	0.077	I	0				0.71
22.083	0.03	0.08	0.077	I	0				0.71
22.167	0.03	0.08	0.076	I	0				0.71
22.250	0.03	0.08	0.076	I	0				0.70
22.333	0.03	0.08	0.076	I	0				0.70
22.417	0.02	0.08	0.075	I	0				0.70
22.500	0.02	0.08	0.075	I	0				0.69
22.583	0.02	0.07	0.074	I	0				0.69
22.667	0.02	0.07	0.074	I	0				0.69
22.750	0.02	0.07	0.074	I	0				0.68

22.833	0.02	0.07	0.073	I	0					0.68
22.917	0.02	0.07	0.073	I	0					0.68
23.000	0.02	0.07	0.073	I	0					0.68
23.083	0.02	0.07	0.072	I	0					0.67
23.167	0.02	0.07	0.072	I	0					0.67
23.250	0.02	0.07	0.072	I	0					0.67
23.333	0.02	0.07	0.072	I	0					0.67
23.417	0.02	0.06	0.071	I	0					0.66
23.500	0.02	0.06	0.071	I	0					0.66
23.583	0.02	0.06	0.071	I	0					0.66
23.667	0.02	0.06	0.070	I	0					0.66
23.750	0.02	0.06	0.070	I	0					0.65
23.833	0.02	0.06	0.070	I	0					0.65
23.917	0.02	0.06	0.070	I	0					0.65
24.000	0.02	0.06	0.069	I	0					0.65
24.083	0.01	0.06	0.069	I	0					0.65
24.167	0.00	0.06	0.069	I	0					0.64
24.250	0.00	0.05	0.068	I	0					0.64
24.333	0.00	0.05	0.068	I	0					0.64
24.417	0.00	0.05	0.068	I	0					0.63
24.500	0.00	0.05	0.067	I	0					0.63
24.583	0.00	0.05	0.067	I	0					0.63
24.667	0.00	0.05	0.067	I	0					0.62
24.750	0.00	0.05	0.066	I	0					0.62
24.833	0.00	0.05	0.066	I	0					0.62
24.917	0.00	0.05	0.066	I	0					0.62
25.000	0.00	0.04	0.065	I	0					0.61
25.083	0.00	0.04	0.065	I	0					0.61
25.167	0.00	0.04	0.065	I	0					0.61
25.250	0.00	0.04	0.064	I	0					0.61
25.333	0.00	0.04	0.064	I	0					0.60
25.417	0.00	0.04	0.064	I	0					0.60
25.500	0.00	0.04	0.064	I	0					0.60
25.583	0.00	0.04	0.063	I	0					0.60
25.667	0.00	0.04	0.063	I	0					0.59
25.750	0.00	0.04	0.063	I	0					0.59
25.833	0.00	0.04	0.063	I	0					0.59
25.917	0.00	0.03	0.062	I	0					0.59
26.000	0.00	0.03	0.062	I	0					0.59
26.083	0.00	0.03	0.062	I	0					0.58
26.167	0.00	0.03	0.062	I	0					0.58
26.250	0.00	0.03	0.061	I	0					0.58
26.333	0.00	0.03	0.061	I	0					0.58
26.417	0.00	0.03	0.061	I	0					0.58
26.500	0.00	0.03	0.061	I	0					0.58
26.583	0.00	0.03	0.061	I	0					0.57
26.667	0.00	0.03	0.060	I	0					0.57
26.750	0.00	0.03	0.060	I	0					0.57
26.833	0.00	0.03	0.060	I	0					0.57
26.917	0.00	0.03	0.060	I	0					0.57

27.000	0.00	0.03	0.060	I 0					0.57
27.083	0.00	0.03	0.060	I 0					0.56
27.167	0.00	0.02	0.059	IO					0.56
27.250	0.00	0.02	0.059	IO					0.56
27.333	0.00	0.02	0.059	IO					0.56
27.417	0.00	0.02	0.059	IO					0.56
27.500	0.00	0.02	0.059	IO					0.56
27.583	0.00	0.02	0.059	IO					0.56
27.667	0.00	0.02	0.058	IO					0.55
27.750	0.00	0.02	0.058	IO					0.55
27.833	0.00	0.02	0.058	IO					0.55
27.917	0.00	0.02	0.058	IO					0.55
28.000	0.00	0.02	0.058	IO					0.55
28.083	0.00	0.02	0.058	IO					0.55
28.167	0.00	0.02	0.058	IO					0.55
28.250	0.00	0.02	0.057	IO					0.55
28.333	0.00	0.02	0.057	IO					0.55
28.417	0.00	0.02	0.057	IO					0.54
28.500	0.00	0.02	0.057	IO					0.54
28.583	0.00	0.02	0.057	IO					0.54
28.667	0.00	0.02	0.057	IO					0.54
28.750	0.00	0.02	0.057	IO					0.54
28.833	0.00	0.02	0.057	IO					0.54
28.917	0.00	0.02	0.057	IO					0.54
29.000	0.00	0.01	0.056	IO					0.54
29.083	0.00	0.01	0.056	IO					0.54
29.167	0.00	0.01	0.056	IO					0.54
29.250	0.00	0.01	0.056	IO					0.54
29.333	0.00	0.01	0.056	IO					0.53
29.417	0.00	0.01	0.056	IO					0.53
29.500	0.00	0.01	0.056	IO					0.53
29.583	0.00	0.01	0.056	IO					0.53
29.667	0.00	0.01	0.056	0					0.53
29.750	0.00	0.01	0.056	0					0.53
29.833	0.00	0.01	0.056	0					0.53
29.917	0.00	0.01	0.055	0					0.53
30.000	0.00	0.01	0.055	0					0.53
30.083	0.00	0.01	0.055	0					0.53
30.167	0.00	0.01	0.055	0					0.53
30.250	0.00	0.01	0.055	0					0.53
30.333	0.00	0.01	0.055	0					0.53
30.417	0.00	0.01	0.055	0					0.53
30.500	0.00	0.01	0.055	0					0.52
30.583	0.00	0.01	0.055	0					0.52
30.667	0.00	0.01	0.055	0					0.52
30.750	0.00	0.01	0.055	0					0.52
30.833	0.00	0.01	0.055	0					0.52
30.917	0.00	0.01	0.055	0					0.52
31.000	0.00	0.01	0.055	0					0.52
31.083	0.00	0.01	0.055	0					0.52

31.167	0.00	0.01	0.054	0					0.52
31.250	0.00	0.01	0.054	0					0.52
31.333	0.00	0.01	0.054	0					0.52
31.417	0.00	0.01	0.054	0					0.52
31.500	0.00	0.01	0.054	0					0.52
31.583	0.00	0.01	0.054	0					0.52
31.667	0.00	0.01	0.054	0					0.52
31.750	0.00	0.01	0.054	0					0.52
31.833	0.00	0.01	0.054	0					0.52
31.917	0.00	0.01	0.054	0					0.52
32.000	0.00	0.01	0.054	0					0.52
32.083	0.00	0.01	0.054	0					0.52
32.167	0.00	0.01	0.054	0					0.52
32.250	0.00	0.01	0.054	0					0.52
32.333	0.00	0.01	0.054	0					0.52
32.417	0.00	0.01	0.054	0					0.51
32.500	0.00	0.01	0.054	0					0.51
32.583	0.00	0.01	0.054	0					0.51
32.667	0.00	0.01	0.054	0					0.51
32.750	0.00	0.01	0.054	0					0.51
32.833	0.00	0.01	0.054	0					0.51
32.917	0.00	0.01	0.054	0					0.51
33.000	0.00	0.00	0.053	0					0.51
33.083	0.00	0.00	0.053	0					0.51
33.167	0.00	0.00	0.053	0					0.51
33.250	0.00	0.00	0.053	0					0.51
33.333	0.00	0.00	0.053	0					0.51
33.417	0.00	0.00	0.053	0					0.51
33.500	0.00	0.00	0.053	0					0.51
33.583	0.00	0.00	0.053	0					0.51
33.667	0.00	0.00	0.053	0					0.51
33.750	0.00	0.00	0.053	0					0.51
33.833	0.00	0.00	0.053	0					0.51
33.917	0.00	0.00	0.053	0					0.51
34.000	0.00	0.00	0.053	0					0.51
34.083	0.00	0.00	0.053	0					0.51
34.167	0.00	0.00	0.053	0					0.51
34.250	0.00	0.00	0.053	0					0.51
34.333	0.00	0.00	0.053	0					0.51
34.417	0.00	0.00	0.053	0					0.51
34.500	0.00	0.00	0.053	0					0.51
34.583	0.00	0.00	0.053	0					0.51
34.667	0.00	0.00	0.053	0					0.51
34.750	0.00	0.00	0.053	0					0.51
34.833	0.00	0.00	0.053	0					0.51
34.917	0.00	0.00	0.053	0					0.51
35.000	0.00	0.00	0.053	0					0.51
35.083	0.00	0.00	0.053	0					0.51
35.167	0.00	0.00	0.053	0					0.51
35.250	0.00	0.00	0.053	0					0.51

35.333	0.00	0.00	0.053	0					0.51
35.417	0.00	0.00	0.053	0					0.51
35.500	0.00	0.00	0.053	0					0.51
35.583	0.00	0.00	0.053	0					0.51
35.667	0.00	0.00	0.053	0					0.51
35.750	0.00	0.00	0.053	0					0.51
35.833	0.00	0.00	0.053	0					0.51
35.917	0.00	0.00	0.053	0					0.51
36.000	0.00	0.00	0.053	0					0.51
36.083	0.00	0.00	0.053	0					0.51
36.167	0.00	0.00	0.053	0					0.51
36.250	0.00	0.00	0.053	0					0.51
36.333	0.00	0.00	0.053	0					0.51
36.417	0.00	0.00	0.053	0					0.50
36.500	0.00	0.00	0.053	0					0.50
36.583	0.00	0.00	0.053	0					0.50
36.667	0.00	0.00	0.053	0					0.50
36.750	0.00	0.00	0.053	0					0.50
36.833	0.00	0.00	0.053	0					0.50
36.917	0.00	0.00	0.053	0					0.50
37.000	0.00	0.00	0.052	0					0.50
37.083	0.00	0.00	0.052	0					0.50
37.167	0.00	0.00	0.052	0					0.50
37.250	0.00	0.00	0.052	0					0.50
37.333	0.00	0.00	0.052	0					0.50
37.417	0.00	0.00	0.052	0					0.50
37.500	0.00	0.00	0.052	0					0.50
37.583	0.00	0.00	0.052	0					0.50
37.667	0.00	0.00	0.052	0					0.50
37.750	0.00	0.00	0.052	0					0.50
37.833	0.00	0.00	0.052	0					0.50
37.917	0.00	0.00	0.052	0					0.50
38.000	0.00	0.00	0.052	0					0.50
38.083	0.00	0.00	0.052	0					0.50
38.167	0.00	0.00	0.052	0					0.50
38.250	0.00	0.00	0.052	0					0.50
38.333	0.00	0.00	0.052	0					0.50
38.417	0.00	0.00	0.052	0					0.50
38.500	0.00	0.00	0.052	0					0.50
38.583	0.00	0.00	0.052	0					0.50
38.667	0.00	0.00	0.052	0					0.50
38.750	0.00	0.00	0.052	0					0.50
38.833	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 466

Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.196 (CFS)
Total volume = 0.188 (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

DMA 2 Proposed 10-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 10YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH110.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 3.171 (CFS)
Total volume = 0.089 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 13

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.8	1.59	2.38	3.17	Depth (Ft.)
0.083	0.35	0.00	0.001	0	I				0.01
0.167	0.49	0.00	0.004	0	I				0.04
0.250	0.60	0.00	0.008	0	I				0.08
0.333	0.64	0.00	0.012	0	I				0.12
0.417	0.67	0.00	0.017	0	I				0.16
0.500	0.76	0.00	0.022	0	I				0.21
0.583	0.95	0.00	0.027	0	I				0.26
0.667	1.15	0.00	0.035	0	I				0.33
0.750	1.61	0.00	0.044	0		I			0.42
0.833	3.17	0.03	0.060	0				I	0.57
0.917	1.76	0.08	0.077	0		I			0.71
1.000	0.69	0.11	0.085	0	I				0.78
1.083	0.16	0.12	0.087	0					0.80
1.167	0.00	0.12	0.087	IO					0.79
1.250	0.00	0.11	0.086	IO					0.79
1.333	0.00	0.11	0.085	IO					0.78
1.417	0.00	0.11	0.084	IO					0.77
1.500	0.00	0.11	0.084	IO					0.77
1.583	0.00	0.10	0.083	IO					0.76
1.667	0.00	0.10	0.082	IO					0.76
1.750	0.00	0.10	0.082	0					0.75
1.833	0.00	0.10	0.081	0					0.74
1.917	0.00	0.09	0.080	0					0.74

2.000	0.00	0.09	0.080	0				0.73
2.083	0.00	0.09	0.079	0				0.73
2.167	0.00	0.09	0.078	0				0.72
2.250	0.00	0.09	0.078	0				0.72
2.333	0.00	0.08	0.077	0				0.71
2.417	0.00	0.08	0.077	0				0.71
2.500	0.00	0.08	0.076	0				0.70
2.583	0.00	0.08	0.076	0				0.70
2.667	0.00	0.08	0.075	0				0.69
2.750	0.00	0.07	0.074	0				0.69
2.833	0.00	0.07	0.074	0				0.69
2.917	0.00	0.07	0.073	0				0.68
3.000	0.00	0.07	0.073	0				0.68
3.083	0.00	0.07	0.072	0				0.67
3.167	0.00	0.07	0.072	0				0.67
3.250	0.00	0.07	0.072	0				0.67
3.333	0.00	0.06	0.071	0				0.66
3.417	0.00	0.06	0.071	0				0.66
3.500	0.00	0.06	0.070	0				0.65
3.583	0.00	0.06	0.070	0				0.65
3.667	0.00	0.06	0.069	0				0.65
3.750	0.00	0.06	0.069	0				0.64
3.833	0.00	0.06	0.069	0				0.64
3.917	0.00	0.05	0.068	0				0.64
4.000	0.00	0.05	0.068	0				0.63
4.083	0.00	0.05	0.068	0				0.63
4.167	0.00	0.05	0.067	0				0.63
4.250	0.00	0.05	0.067	0				0.63
4.333	0.00	0.05	0.067	0				0.62
4.417	0.00	0.05	0.066	0				0.62
4.500	0.00	0.05	0.066	0				0.62
4.583	0.00	0.05	0.066	0				0.61
4.667	0.00	0.04	0.065	0				0.61
4.750	0.00	0.04	0.065	0				0.61
4.833	0.00	0.04	0.065	0				0.61
4.917	0.00	0.04	0.064	0				0.60
5.000	0.00	0.04	0.064	0				0.60
5.083	0.00	0.04	0.064	0				0.60
5.167	0.00	0.04	0.064	0				0.60
5.250	0.00	0.04	0.063	0				0.60
5.333	0.00	0.04	0.063	0				0.59
5.417	0.00	0.04	0.063	0				0.59
5.500	0.00	0.04	0.063	0				0.59
5.583	0.00	0.03	0.062	0				0.59
5.667	0.00	0.03	0.062	0				0.59
5.750	0.00	0.03	0.062	0				0.58
5.833	0.00	0.03	0.062	0				0.58
5.917	0.00	0.03	0.061	0				0.58
6.000	0.00	0.03	0.061	0				0.58
6.083	0.00	0.03	0.061	0				0.58

6.167	0.00	0.03	0.061	0					0.57
6.250	0.00	0.03	0.061	0					0.57
6.333	0.00	0.03	0.060	0					0.57
6.417	0.00	0.03	0.060	0					0.57
6.500	0.00	0.03	0.060	0					0.57
6.583	0.00	0.03	0.060	0					0.57
6.667	0.00	0.03	0.060	0					0.56
6.750	0.00	0.02	0.059	0					0.56
6.833	0.00	0.02	0.059	0					0.56
6.917	0.00	0.02	0.059	0					0.56
7.000	0.00	0.02	0.059	0					0.56
7.083	0.00	0.02	0.059	0					0.56
7.167	0.00	0.02	0.059	0					0.56
7.250	0.00	0.02	0.059	0					0.56
7.333	0.00	0.02	0.058	0					0.55
7.417	0.00	0.02	0.058	0					0.55
7.500	0.00	0.02	0.058	0					0.55
7.583	0.00	0.02	0.058	0					0.55
7.667	0.00	0.02	0.058	0					0.55
7.750	0.00	0.02	0.058	0					0.55
7.833	0.00	0.02	0.058	0					0.55
7.917	0.00	0.02	0.057	0					0.55
8.000	0.00	0.02	0.057	0					0.54
8.083	0.00	0.02	0.057	0					0.54
8.167	0.00	0.02	0.057	0					0.54
8.250	0.00	0.02	0.057	0					0.54
8.333	0.00	0.02	0.057	0					0.54
8.417	0.00	0.02	0.057	0					0.54
8.500	0.00	0.02	0.057	0					0.54
8.583	0.00	0.02	0.057	0					0.54
8.667	0.00	0.01	0.056	0					0.54
8.750	0.00	0.01	0.056	0					0.54
8.833	0.00	0.01	0.056	0					0.54
8.917	0.00	0.01	0.056	0					0.53
9.000	0.00	0.01	0.056	0					0.53
9.083	0.00	0.01	0.056	0					0.53
9.167	0.00	0.01	0.056	0					0.53
9.250	0.00	0.01	0.056	0					0.53
9.333	0.00	0.01	0.056	0					0.53
9.417	0.00	0.01	0.056	0					0.53
9.500	0.00	0.01	0.056	0					0.53
9.583	0.00	0.01	0.055	0					0.53
9.667	0.00	0.01	0.055	0					0.53
9.750	0.00	0.01	0.055	0					0.53
9.833	0.00	0.01	0.055	0					0.53
9.917	0.00	0.01	0.055	0					0.53
10.000	0.00	0.01	0.055	0					0.53
10.083	0.00	0.01	0.055	0					0.53
10.167	0.00	0.01	0.055	0					0.52
10.250	0.00	0.01	0.055	0					0.52

10.333	0.00	0.01	0.055	0					0.52
10.417	0.00	0.01	0.055	0					0.52
10.500	0.00	0.01	0.055	0					0.52
10.583	0.00	0.01	0.055	0					0.52
10.667	0.00	0.01	0.055	0					0.52
10.750	0.00	0.01	0.054	0					0.52
10.833	0.00	0.01	0.054	0					0.52
10.917	0.00	0.01	0.054	0					0.52
11.000	0.00	0.01	0.054	0					0.52
11.083	0.00	0.01	0.054	0					0.52
11.167	0.00	0.01	0.054	0					0.52
11.250	0.00	0.01	0.054	0					0.52
11.333	0.00	0.01	0.054	0					0.52
11.417	0.00	0.01	0.054	0					0.52
11.500	0.00	0.01	0.054	0					0.52
11.583	0.00	0.01	0.054	0					0.52
11.667	0.00	0.01	0.054	0					0.52
11.750	0.00	0.01	0.054	0					0.52
11.833	0.00	0.01	0.054	0					0.52
11.917	0.00	0.01	0.054	0					0.52
12.000	0.00	0.01	0.054	0					0.51
12.083	0.00	0.01	0.054	0					0.51
12.167	0.00	0.01	0.054	0					0.51
12.250	0.00	0.01	0.054	0					0.51
12.333	0.00	0.01	0.054	0					0.51
12.417	0.00	0.01	0.054	0					0.51
12.500	0.00	0.01	0.054	0					0.51
12.583	0.00	0.01	0.054	0					0.51
12.667	0.00	0.00	0.053	0					0.51
12.750	0.00	0.00	0.053	0					0.51
12.833	0.00	0.00	0.053	0					0.51
12.917	0.00	0.00	0.053	0					0.51
13.000	0.00	0.00	0.053	0					0.51
13.083	0.00	0.00	0.053	0					0.51
13.167	0.00	0.00	0.053	0					0.51
13.250	0.00	0.00	0.053	0					0.51
13.333	0.00	0.00	0.053	0					0.51
13.417	0.00	0.00	0.053	0					0.51
13.500	0.00	0.00	0.053	0					0.51
13.583	0.00	0.00	0.053	0					0.51
13.667	0.00	0.00	0.053	0					0.51
13.750	0.00	0.00	0.053	0					0.51
13.833	0.00	0.00	0.053	0					0.51
13.917	0.00	0.00	0.053	0					0.51
14.000	0.00	0.00	0.053	0					0.51
14.083	0.00	0.00	0.053	0					0.51
14.167	0.00	0.00	0.053	0					0.51
14.250	0.00	0.00	0.053	0					0.51
14.333	0.00	0.00	0.053	0					0.51
14.417	0.00	0.00	0.053	0					0.51

14.500	0.00	0.00	0.053	0					0.51
14.583	0.00	0.00	0.053	0					0.51
14.667	0.00	0.00	0.053	0					0.51
14.750	0.00	0.00	0.053	0					0.51
14.833	0.00	0.00	0.053	0					0.51
14.917	0.00	0.00	0.053	0					0.51
15.000	0.00	0.00	0.053	0					0.51
15.083	0.00	0.00	0.053	0					0.51
15.167	0.00	0.00	0.053	0					0.51
15.250	0.00	0.00	0.053	0					0.51
15.333	0.00	0.00	0.053	0					0.51
15.417	0.00	0.00	0.053	0					0.51
15.500	0.00	0.00	0.053	0					0.51
15.583	0.00	0.00	0.053	0					0.51
15.667	0.00	0.00	0.053	0					0.51
15.750	0.00	0.00	0.053	0					0.51
15.833	0.00	0.00	0.053	0					0.51
15.917	0.00	0.00	0.053	0					0.51
16.000	0.00	0.00	0.053	0					0.50
16.083	0.00	0.00	0.053	0					0.50
16.167	0.00	0.00	0.053	0					0.50
16.250	0.00	0.00	0.053	0					0.50
16.333	0.00	0.00	0.053	0					0.50
16.417	0.00	0.00	0.053	0					0.50
16.500	0.00	0.00	0.053	0					0.50
16.583	0.00	0.00	0.053	0					0.50
16.667	0.00	0.00	0.052	0					0.50
16.750	0.00	0.00	0.052	0					0.50
16.833	0.00	0.00	0.052	0					0.50
16.917	0.00	0.00	0.052	0					0.50
17.000	0.00	0.00	0.052	0					0.50
17.083	0.00	0.00	0.052	0					0.50
17.167	0.00	0.00	0.052	0					0.50
17.250	0.00	0.00	0.052	0					0.50
17.333	0.00	0.00	0.052	0					0.50
17.417	0.00	0.00	0.052	0					0.50
17.500	0.00	0.00	0.052	0					0.50
17.583	0.00	0.00	0.052	0					0.50
17.667	0.00	0.00	0.052	0					0.50
17.750	0.00	0.00	0.052	0					0.50
17.833	0.00	0.00	0.052	0					0.50
17.917	0.00	0.00	0.052	0					0.50
18.000	0.00	0.00	0.052	0					0.50
18.083	0.00	0.00	0.052	0					0.50
18.167	0.00	0.00	0.052	0					0.50
18.250	0.00	0.00	0.052	0					0.50
18.333	0.00	0.00	0.052	0					0.50
18.417	0.00	0.00	0.052	0					0.50
18.500	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 222

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.116 (CFS)

Total volume = 0.037 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 10YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH310.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.748 (CFS)
Total volume = 0.131 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.4	0.87	1.31	1.75	Depth (Ft.)
0.083	0.16	0.00	0.001	0	I				0.01
0.167	0.22	0.00	0.002	0	I				0.02
0.250	0.20	0.00	0.003	0	I				0.03
0.333	0.24	0.00	0.005	0	I				0.05
0.417	0.26	0.00	0.007	0	I				0.06
0.500	0.30	0.00	0.008	0	I				0.08
0.583	0.27	0.00	0.010	0	I				0.10
0.667	0.30	0.00	0.012	0	I				0.12
0.750	0.31	0.00	0.014	0	I				0.14
0.833	0.27	0.00	0.017	0	I				0.16
0.917	0.27	0.00	0.018	0	I				0.18
1.000	0.30	0.00	0.020	0	I				0.20
1.083	0.36	0.00	0.023	0	I				0.22
1.167	0.38	0.00	0.025	0	I				0.24
1.250	0.38	0.00	0.028	0	I				0.27
1.333	0.35	0.00	0.030	0	I				0.29
1.417	0.42	0.00	0.033	0	I				0.32
1.500	0.46	0.00	0.036	0	I				0.35
1.583	0.43	0.00	0.039	0	I				0.38
1.667	0.45	0.00	0.042	0	I				0.41
1.750	0.58	0.00	0.046	0	I				0.44
1.833	0.58	0.00	0.050	0	I				0.48
1.917	0.53	0.01	0.054	0	I				0.51

2.000	0.54	0.02	0.057	0	I				0.54
2.083	0.56	0.03	0.061	0	I				0.57
2.167	0.76	0.04	0.065	0		I			0.61
2.250	0.98	0.06	0.071	0			I		0.66
2.333	0.77	0.08	0.076	0		I			0.70
2.417	1.25	0.10	0.082	0			I		0.76
2.500	1.56	0.13	0.091	0				I	0.83
2.583	1.75	0.17	0.102	0				I	0.92
2.667	1.40	0.20	0.111	0			I		1.00
2.750	0.60	0.20	0.117	0	I				1.04
2.833	0.32	0.20	0.119	0	I				1.06
2.917	0.31	0.20	0.119	0	I				1.06
3.000	0.16	0.20	0.120	0	I				1.07
3.083	0.03	0.20	0.119	0	I				1.06
3.167	0.00	0.20	0.118	0	I				1.05
3.250	0.00	0.20	0.116	0	I				1.04
3.333	0.00	0.20	0.115	0	I				1.03
3.417	0.00	0.20	0.114	0	I				1.02
3.500	0.00	0.20	0.112	0	I				1.01
3.583	0.00	0.20	0.111	0	I				1.00
3.667	0.00	0.19	0.110	0	I				0.99
3.750	0.00	0.19	0.108	0	I				0.98
3.833	0.00	0.18	0.107	0	I				0.97
3.917	0.00	0.18	0.106	0	I				0.96
4.000	0.00	0.18	0.105	0	I				0.95
4.083	0.00	0.17	0.103	0	I				0.94
4.167	0.00	0.17	0.102	0	I				0.93
4.250	0.00	0.16	0.101	0	I				0.92
4.333	0.00	0.16	0.100	0	I				0.91
4.417	0.00	0.16	0.099	0	I				0.90
4.500	0.00	0.15	0.098	0	I				0.89
4.583	0.00	0.15	0.097	0	I				0.88
4.667	0.00	0.15	0.096	0	I				0.87
4.750	0.00	0.14	0.095	0	I				0.86
4.833	0.00	0.14	0.094	0	I				0.85
4.917	0.00	0.14	0.093	0	I				0.85
5.000	0.00	0.13	0.092	0	I				0.84
5.083	0.00	0.13	0.091	0	I				0.83
5.167	0.00	0.13	0.090	0	I				0.82
5.250	0.00	0.12	0.089	0	I				0.82
5.333	0.00	0.12	0.088	0	I				0.81
5.417	0.00	0.12	0.088	0	I				0.80
5.500	0.00	0.12	0.087	0	I				0.80
5.583	0.00	0.11	0.086	0	I				0.79
5.667	0.00	0.11	0.085	0	I				0.78
5.750	0.00	0.11	0.085	0	I				0.78
5.833	0.00	0.11	0.084	0	I				0.77
5.917	0.00	0.10	0.083	0	I				0.76
6.000	0.00	0.10	0.082	0	I				0.76
6.083	0.00	0.10	0.082	0	I				0.75

6.167	0.00	0.10	0.081	IO					0.75
6.250	0.00	0.09	0.080	IO					0.74
6.333	0.00	0.09	0.080	IO					0.73
6.417	0.00	0.09	0.079	IO					0.73
6.500	0.00	0.09	0.078	IO					0.72
6.583	0.00	0.09	0.078	IO					0.72
6.667	0.00	0.08	0.077	IO					0.71
6.750	0.00	0.08	0.077	IO					0.71
6.833	0.00	0.08	0.076	IO					0.70
6.917	0.00	0.08	0.076	IO					0.70
7.000	0.00	0.08	0.075	IO					0.70
7.083	0.00	0.07	0.075	IO					0.69
7.167	0.00	0.07	0.074	IO					0.69
7.250	0.00	0.07	0.074	IO					0.68
7.333	0.00	0.07	0.073	IO					0.68
7.417	0.00	0.07	0.073	IO					0.67
7.500	0.00	0.07	0.072	IO					0.67
7.583	0.00	0.07	0.072	IO					0.67
7.667	0.00	0.06	0.071	IO					0.66
7.750	0.00	0.06	0.071	IO					0.66
7.833	0.00	0.06	0.070	IO					0.66
7.917	0.00	0.06	0.070	IO					0.65
8.000	0.00	0.06	0.070	IO					0.65
8.083	0.00	0.06	0.069	IO					0.64
8.167	0.00	0.06	0.069	IO					0.64
8.250	0.00	0.05	0.068	0					0.64
8.333	0.00	0.05	0.068	0					0.64
8.417	0.00	0.05	0.068	0					0.63
8.500	0.00	0.05	0.067	0					0.63
8.583	0.00	0.05	0.067	0					0.63
8.667	0.00	0.05	0.067	0					0.62
8.750	0.00	0.05	0.066	0					0.62
8.833	0.00	0.05	0.066	0					0.62
8.917	0.00	0.05	0.066	0					0.62
9.000	0.00	0.04	0.065	0					0.61
9.083	0.00	0.04	0.065	0					0.61
9.167	0.00	0.04	0.065	0					0.61
9.250	0.00	0.04	0.064	0					0.61
9.333	0.00	0.04	0.064	0					0.60
9.417	0.00	0.04	0.064	0					0.60
9.500	0.00	0.04	0.064	0					0.60
9.583	0.00	0.04	0.063	0					0.60
9.667	0.00	0.04	0.063	0					0.59
9.750	0.00	0.04	0.063	0					0.59
9.833	0.00	0.04	0.063	0					0.59
9.917	0.00	0.03	0.062	0					0.59
10.000	0.00	0.03	0.062	0					0.59
10.083	0.00	0.03	0.062	0					0.58
10.167	0.00	0.03	0.062	0					0.58
10.250	0.00	0.03	0.061	0					0.58

10.333	0.00	0.03	0.061	0					0.58
10.417	0.00	0.03	0.061	0					0.58
10.500	0.00	0.03	0.061	0					0.57
10.583	0.00	0.03	0.061	0					0.57
10.667	0.00	0.03	0.060	0					0.57
10.750	0.00	0.03	0.060	0					0.57
10.833	0.00	0.03	0.060	0					0.57
10.917	0.00	0.03	0.060	0					0.57
11.000	0.00	0.03	0.060	0					0.56
11.083	0.00	0.02	0.059	0					0.56
11.167	0.00	0.02	0.059	0					0.56
11.250	0.00	0.02	0.059	0					0.56
11.333	0.00	0.02	0.059	0					0.56
11.417	0.00	0.02	0.059	0					0.56
11.500	0.00	0.02	0.059	0					0.56
11.583	0.00	0.02	0.059	0					0.56
11.667	0.00	0.02	0.058	0					0.55
11.750	0.00	0.02	0.058	0					0.55
11.833	0.00	0.02	0.058	0					0.55
11.917	0.00	0.02	0.058	0					0.55
12.000	0.00	0.02	0.058	0					0.55
12.083	0.00	0.02	0.058	0					0.55
12.167	0.00	0.02	0.058	0					0.55
12.250	0.00	0.02	0.057	0					0.55
12.333	0.00	0.02	0.057	0					0.55
12.417	0.00	0.02	0.057	0					0.54
12.500	0.00	0.02	0.057	0					0.54
12.583	0.00	0.02	0.057	0					0.54
12.667	0.00	0.02	0.057	0					0.54
12.750	0.00	0.02	0.057	0					0.54
12.833	0.00	0.02	0.057	0					0.54
12.917	0.00	0.02	0.057	0					0.54
13.000	0.00	0.01	0.056	0					0.54
13.083	0.00	0.01	0.056	0					0.54
13.167	0.00	0.01	0.056	0					0.54
13.250	0.00	0.01	0.056	0					0.54
13.333	0.00	0.01	0.056	0					0.53
13.417	0.00	0.01	0.056	0					0.53
13.500	0.00	0.01	0.056	0					0.53
13.583	0.00	0.01	0.056	0					0.53
13.667	0.00	0.01	0.056	0					0.53
13.750	0.00	0.01	0.056	0					0.53
13.833	0.00	0.01	0.056	0					0.53
13.917	0.00	0.01	0.055	0					0.53
14.000	0.00	0.01	0.055	0					0.53
14.083	0.00	0.01	0.055	0					0.53
14.167	0.00	0.01	0.055	0					0.53
14.250	0.00	0.01	0.055	0					0.53
14.333	0.00	0.01	0.055	0					0.53
14.417	0.00	0.01	0.055	0					0.53

14.500	0.00	0.01	0.055	0					0.52
14.583	0.00	0.01	0.055	0					0.52
14.667	0.00	0.01	0.055	0					0.52
14.750	0.00	0.01	0.055	0					0.52
14.833	0.00	0.01	0.055	0					0.52
14.917	0.00	0.01	0.055	0					0.52
15.000	0.00	0.01	0.055	0					0.52
15.083	0.00	0.01	0.054	0					0.52
15.167	0.00	0.01	0.054	0					0.52
15.250	0.00	0.01	0.054	0					0.52
15.333	0.00	0.01	0.054	0					0.52
15.417	0.00	0.01	0.054	0					0.52
15.500	0.00	0.01	0.054	0					0.52
15.583	0.00	0.01	0.054	0					0.52
15.667	0.00	0.01	0.054	0					0.52
15.750	0.00	0.01	0.054	0					0.52
15.833	0.00	0.01	0.054	0					0.52
15.917	0.00	0.01	0.054	0					0.52
16.000	0.00	0.01	0.054	0					0.52
16.083	0.00	0.01	0.054	0					0.52
16.167	0.00	0.01	0.054	0					0.52
16.250	0.00	0.01	0.054	0					0.52
16.333	0.00	0.01	0.054	0					0.51
16.417	0.00	0.01	0.054	0					0.51
16.500	0.00	0.01	0.054	0					0.51
16.583	0.00	0.01	0.054	0					0.51
16.667	0.00	0.01	0.054	0					0.51
16.750	0.00	0.01	0.054	0					0.51
16.833	0.00	0.01	0.054	0					0.51
16.917	0.00	0.01	0.054	0					0.51
17.000	0.00	0.00	0.053	0					0.51
17.083	0.00	0.00	0.053	0					0.51
17.167	0.00	0.00	0.053	0					0.51
17.250	0.00	0.00	0.053	0					0.51
17.333	0.00	0.00	0.053	0					0.51
17.417	0.00	0.00	0.053	0					0.51
17.500	0.00	0.00	0.053	0					0.51
17.583	0.00	0.00	0.053	0					0.51
17.667	0.00	0.00	0.053	0					0.51
17.750	0.00	0.00	0.053	0					0.51
17.833	0.00	0.00	0.053	0					0.51
17.917	0.00	0.00	0.053	0					0.51
18.000	0.00	0.00	0.053	0					0.51
18.083	0.00	0.00	0.053	0					0.51
18.167	0.00	0.00	0.053	0					0.51
18.250	0.00	0.00	0.053	0					0.51
18.333	0.00	0.00	0.053	0					0.51
18.417	0.00	0.00	0.053	0					0.51
18.500	0.00	0.00	0.053	0					0.51
18.583	0.00	0.00	0.053	0					0.51

18.667	0.00	0.00	0.053	0					0.51
18.750	0.00	0.00	0.053	0					0.51
18.833	0.00	0.00	0.053	0					0.51
18.917	0.00	0.00	0.053	0					0.51
19.000	0.00	0.00	0.053	0					0.51
19.083	0.00	0.00	0.053	0					0.51
19.167	0.00	0.00	0.053	0					0.51
19.250	0.00	0.00	0.053	0					0.51
19.333	0.00	0.00	0.053	0					0.51
19.417	0.00	0.00	0.053	0					0.51
19.500	0.00	0.00	0.053	0					0.51
19.583	0.00	0.00	0.053	0					0.51
19.667	0.00	0.00	0.053	0					0.51
19.750	0.00	0.00	0.053	0					0.51
19.833	0.00	0.00	0.053	0					0.51
19.917	0.00	0.00	0.053	0					0.51
20.000	0.00	0.00	0.053	0					0.51
20.083	0.00	0.00	0.053	0					0.51
20.167	0.00	0.00	0.053	0					0.51
20.250	0.00	0.00	0.053	0					0.51
20.333	0.00	0.00	0.053	0					0.50
20.417	0.00	0.00	0.053	0					0.50
20.500	0.00	0.00	0.053	0					0.50
20.583	0.00	0.00	0.053	0					0.50
20.667	0.00	0.00	0.053	0					0.50
20.750	0.00	0.00	0.053	0					0.50
20.833	0.00	0.00	0.053	0					0.50
20.917	0.00	0.00	0.053	0					0.50
21.000	0.00	0.00	0.052	0					0.50
21.083	0.00	0.00	0.052	0					0.50
21.167	0.00	0.00	0.052	0					0.50
21.250	0.00	0.00	0.052	0					0.50
21.333	0.00	0.00	0.052	0					0.50
21.417	0.00	0.00	0.052	0					0.50
21.500	0.00	0.00	0.052	0					0.50
21.583	0.00	0.00	0.052	0					0.50
21.667	0.00	0.00	0.052	0					0.50
21.750	0.00	0.00	0.052	0					0.50
21.833	0.00	0.00	0.052	0					0.50
21.917	0.00	0.00	0.052	0					0.50
22.000	0.00	0.00	0.052	0					0.50
22.083	0.00	0.00	0.052	0					0.50
22.167	0.00	0.00	0.052	0					0.50
22.250	0.00	0.00	0.052	0					0.50
22.333	0.00	0.00	0.052	0					0.50
22.417	0.00	0.00	0.052	0					0.50
22.500	0.00	0.00	0.052	0					0.50
22.583	0.00	0.00	0.052	0					0.50
22.667	0.00	0.00	0.052	0					0.50
22.750	0.00	0.00	0.052	0					0.50

22.833 0.00 0.00 0.052 0 | | | | 0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 274

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.079 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 10YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH610.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.617 (CFS)
Total volume = 0.176 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.4	0.81	1.21	1.62	Depth (Ft.)
0.083	0.09	0.00	0.000	OI					0.00
0.167	0.14	0.00	0.001	O I					0.01
0.250	0.14	0.00	0.002	O I					0.02
0.333	0.14	0.00	0.003	O I					0.03
0.417	0.14	0.00	0.004	O I					0.04
0.500	0.16	0.00	0.005	O I					0.05
0.583	0.17	0.00	0.006	O I					0.06
0.667	0.17	0.00	0.007	O I					0.07
0.750	0.17	0.00	0.008	O I					0.08
0.833	0.17	0.00	0.010	O I					0.09
0.917	0.17	0.00	0.011	O I					0.10
1.000	0.18	0.00	0.012	O I					0.12
1.083	0.19	0.00	0.013	O I					0.13
1.167	0.19	0.00	0.015	O I					0.14
1.250	0.19	0.00	0.016	O I					0.15
1.333	0.19	0.00	0.017	O I					0.17
1.417	0.19	0.00	0.019	O I					0.18
1.500	0.19	0.00	0.020	O I					0.19
1.583	0.19	0.00	0.021	O I					0.20
1.667	0.19	0.00	0.023	O I					0.22
1.750	0.19	0.00	0.024	O I					0.23
1.833	0.19	0.00	0.025	O I					0.24
1.917	0.19	0.00	0.026	O I					0.25

6.167	0.00	0.20	0.147	I	0					1.27
6.250	0.00	0.20	0.145	I	0					1.26
6.333	0.00	0.20	0.144	I	0					1.25
6.417	0.00	0.20	0.143	I	0					1.24
6.500	0.00	0.20	0.141	I	0					1.23
6.583	0.00	0.20	0.140	I	0					1.22
6.667	0.00	0.20	0.138	I	0					1.21
6.750	0.00	0.20	0.137	I	0					1.20
6.833	0.00	0.20	0.136	I	0					1.19
6.917	0.00	0.20	0.134	I	0					1.18
7.000	0.00	0.20	0.133	I	0					1.17
7.083	0.00	0.20	0.132	I	0					1.16
7.167	0.00	0.20	0.130	I	0					1.15
7.250	0.00	0.20	0.129	I	0					1.14
7.333	0.00	0.20	0.128	I	0					1.13
7.417	0.00	0.20	0.126	I	0					1.12
7.500	0.00	0.20	0.125	I	0					1.11
7.583	0.00	0.20	0.124	I	0					1.10
7.667	0.00	0.20	0.122	I	0					1.09
7.750	0.00	0.20	0.121	I	0					1.08
7.833	0.00	0.20	0.120	I	0					1.06
7.917	0.00	0.20	0.118	I	0					1.05
8.000	0.00	0.20	0.117	I	0					1.04
8.083	0.00	0.20	0.116	I	0					1.03
8.167	0.00	0.20	0.114	I	0					1.02
8.250	0.00	0.20	0.113	I	0					1.01
8.333	0.00	0.20	0.111	I	0					1.00
8.417	0.00	0.19	0.110	I	0					0.99
8.500	0.00	0.19	0.109	I	0					0.98
8.583	0.00	0.18	0.107	I	0					0.97
8.667	0.00	0.18	0.106	I	0					0.96
8.750	0.00	0.18	0.105	I	0					0.95
8.833	0.00	0.17	0.104	I	0					0.94
8.917	0.00	0.17	0.103	I	0					0.93
9.000	0.00	0.16	0.101	I	0					0.92
9.083	0.00	0.16	0.100	I	0					0.91
9.167	0.00	0.16	0.099	I	0					0.90
9.250	0.00	0.15	0.098	I	0					0.89
9.333	0.00	0.15	0.097	I	0					0.88
9.417	0.00	0.15	0.096	I	0					0.87
9.500	0.00	0.14	0.095	I	0					0.87
9.583	0.00	0.14	0.094	I	0					0.86
9.667	0.00	0.14	0.093	I	0					0.85
9.750	0.00	0.13	0.092	I	0					0.84
9.833	0.00	0.13	0.091	I	0					0.83
9.917	0.00	0.13	0.090	I	0					0.83
10.000	0.00	0.13	0.090	I	0					0.82
10.083	0.00	0.12	0.089	I	0					0.81
10.167	0.00	0.12	0.088	I	0					0.80
10.250	0.00	0.12	0.087	I	0					0.80

10.333	0.00	0.11	0.086	I 0					0.79
10.417	0.00	0.11	0.086	I 0					0.78
10.500	0.00	0.11	0.085	I 0					0.78
10.583	0.00	0.11	0.084	I 0					0.77
10.667	0.00	0.10	0.083	I 0					0.77
10.750	0.00	0.10	0.083	I 0					0.76
10.833	0.00	0.10	0.082	IO					0.75
10.917	0.00	0.10	0.081	IO					0.75
11.000	0.00	0.10	0.081	IO					0.74
11.083	0.00	0.09	0.080	IO					0.74
11.167	0.00	0.09	0.079	IO					0.73
11.250	0.00	0.09	0.079	IO					0.73
11.333	0.00	0.09	0.078	IO					0.72
11.417	0.00	0.08	0.077	IO					0.72
11.500	0.00	0.08	0.077	IO					0.71
11.583	0.00	0.08	0.076	IO					0.71
11.667	0.00	0.08	0.076	IO					0.70
11.750	0.00	0.08	0.075	IO					0.70
11.833	0.00	0.08	0.075	IO					0.69
11.917	0.00	0.07	0.074	IO					0.69
12.000	0.00	0.07	0.074	IO					0.68
12.083	0.00	0.07	0.073	IO					0.68
12.167	0.00	0.07	0.073	IO					0.68
12.250	0.00	0.07	0.072	IO					0.67
12.333	0.00	0.07	0.072	IO					0.67
12.417	0.00	0.06	0.071	IO					0.66
12.500	0.00	0.06	0.071	IO					0.66
12.583	0.00	0.06	0.070	IO					0.66
12.667	0.00	0.06	0.070	IO					0.65
12.750	0.00	0.06	0.070	IO					0.65
12.833	0.00	0.06	0.069	IO					0.65
12.917	0.00	0.06	0.069	IO					0.64
13.000	0.00	0.05	0.068	IO					0.64
13.083	0.00	0.05	0.068	IO					0.64
13.167	0.00	0.05	0.068	IO					0.63
13.250	0.00	0.05	0.067	IO					0.63
13.333	0.00	0.05	0.067	0					0.63
13.417	0.00	0.05	0.067	0					0.62
13.500	0.00	0.05	0.066	0					0.62
13.583	0.00	0.05	0.066	0					0.62
13.667	0.00	0.05	0.066	0					0.62
13.750	0.00	0.04	0.065	0					0.61
13.833	0.00	0.04	0.065	0					0.61
13.917	0.00	0.04	0.065	0					0.61
14.000	0.00	0.04	0.065	0					0.61
14.083	0.00	0.04	0.064	0					0.60
14.167	0.00	0.04	0.064	0					0.60
14.250	0.00	0.04	0.064	0					0.60
14.333	0.00	0.04	0.063	0					0.60
14.417	0.00	0.04	0.063	0					0.59

14.500	0.00	0.04	0.063	0					0.59
14.583	0.00	0.04	0.063	0					0.59
14.667	0.00	0.03	0.062	0					0.59
14.750	0.00	0.03	0.062	0					0.59
14.833	0.00	0.03	0.062	0					0.58
14.917	0.00	0.03	0.062	0					0.58
15.000	0.00	0.03	0.062	0					0.58
15.083	0.00	0.03	0.061	0					0.58
15.167	0.00	0.03	0.061	0					0.58
15.250	0.00	0.03	0.061	0					0.58
15.333	0.00	0.03	0.061	0					0.57
15.417	0.00	0.03	0.060	0					0.57
15.500	0.00	0.03	0.060	0					0.57
15.583	0.00	0.03	0.060	0					0.57
15.667	0.00	0.03	0.060	0					0.57
15.750	0.00	0.03	0.060	0					0.57
15.833	0.00	0.03	0.060	0					0.56
15.917	0.00	0.02	0.059	0					0.56
16.000	0.00	0.02	0.059	0					0.56
16.083	0.00	0.02	0.059	0					0.56
16.167	0.00	0.02	0.059	0					0.56
16.250	0.00	0.02	0.059	0					0.56
16.333	0.00	0.02	0.059	0					0.56
16.417	0.00	0.02	0.058	0					0.55
16.500	0.00	0.02	0.058	0					0.55
16.583	0.00	0.02	0.058	0					0.55
16.667	0.00	0.02	0.058	0					0.55
16.750	0.00	0.02	0.058	0					0.55
16.833	0.00	0.02	0.058	0					0.55
16.917	0.00	0.02	0.058	0					0.55
17.000	0.00	0.02	0.057	0					0.55
17.083	0.00	0.02	0.057	0					0.55
17.167	0.00	0.02	0.057	0					0.54
17.250	0.00	0.02	0.057	0					0.54
17.333	0.00	0.02	0.057	0					0.54
17.417	0.00	0.02	0.057	0					0.54
17.500	0.00	0.02	0.057	0					0.54
17.583	0.00	0.02	0.057	0					0.54
17.667	0.00	0.02	0.057	0					0.54
17.750	0.00	0.01	0.056	0					0.54
17.833	0.00	0.01	0.056	0					0.54
17.917	0.00	0.01	0.056	0					0.54
18.000	0.00	0.01	0.056	0					0.54
18.083	0.00	0.01	0.056	0					0.53
18.167	0.00	0.01	0.056	0					0.53
18.250	0.00	0.01	0.056	0					0.53
18.333	0.00	0.01	0.056	0					0.53
18.417	0.00	0.01	0.056	0					0.53
18.500	0.00	0.01	0.056	0					0.53
18.583	0.00	0.01	0.056	0					0.53

18.667	0.00	0.01	0.055	0					0.53
18.750	0.00	0.01	0.055	0					0.53
18.833	0.00	0.01	0.055	0					0.53
18.917	0.00	0.01	0.055	0					0.53
19.000	0.00	0.01	0.055	0					0.53
19.083	0.00	0.01	0.055	0					0.53
19.167	0.00	0.01	0.055	0					0.53
19.250	0.00	0.01	0.055	0					0.53
19.333	0.00	0.01	0.055	0					0.52
19.417	0.00	0.01	0.055	0					0.52
19.500	0.00	0.01	0.055	0					0.52
19.583	0.00	0.01	0.055	0					0.52
19.667	0.00	0.01	0.055	0					0.52
19.750	0.00	0.01	0.055	0					0.52
19.833	0.00	0.01	0.055	0					0.52
19.917	0.00	0.01	0.054	0					0.52
20.000	0.00	0.01	0.054	0					0.52
20.083	0.00	0.01	0.054	0					0.52
20.167	0.00	0.01	0.054	0					0.52
20.250	0.00	0.01	0.054	0					0.52
20.333	0.00	0.01	0.054	0					0.52
20.417	0.00	0.01	0.054	0					0.52
20.500	0.00	0.01	0.054	0					0.52
20.583	0.00	0.01	0.054	0					0.52
20.667	0.00	0.01	0.054	0					0.52
20.750	0.00	0.01	0.054	0					0.52
20.833	0.00	0.01	0.054	0					0.52
20.917	0.00	0.01	0.054	0					0.52
21.000	0.00	0.01	0.054	0					0.52
21.083	0.00	0.01	0.054	0					0.52
21.167	0.00	0.01	0.054	0					0.51
21.250	0.00	0.01	0.054	0					0.51
21.333	0.00	0.01	0.054	0					0.51
21.417	0.00	0.01	0.054	0					0.51
21.500	0.00	0.01	0.054	0					0.51
21.583	0.00	0.01	0.054	0					0.51
21.667	0.00	0.01	0.054	0					0.51
21.750	0.00	0.00	0.053	0					0.51
21.833	0.00	0.00	0.053	0					0.51
21.917	0.00	0.00	0.053	0					0.51
22.000	0.00	0.00	0.053	0					0.51
22.083	0.00	0.00	0.053	0					0.51
22.167	0.00	0.00	0.053	0					0.51
22.250	0.00	0.00	0.053	0					0.51
22.333	0.00	0.00	0.053	0					0.51
22.417	0.00	0.00	0.053	0					0.51
22.500	0.00	0.00	0.053	0					0.51
22.583	0.00	0.00	0.053	0					0.51
22.667	0.00	0.00	0.053	0					0.51
22.750	0.00	0.00	0.053	0					0.51

22.833	0.00	0.00	0.053	0					0.51
22.917	0.00	0.00	0.053	0					0.51
23.000	0.00	0.00	0.053	0					0.51
23.083	0.00	0.00	0.053	0					0.51
23.167	0.00	0.00	0.053	0					0.51
23.250	0.00	0.00	0.053	0					0.51
23.333	0.00	0.00	0.053	0					0.51
23.417	0.00	0.00	0.053	0					0.51
23.500	0.00	0.00	0.053	0					0.51
23.583	0.00	0.00	0.053	0					0.51
23.667	0.00	0.00	0.053	0					0.51
23.750	0.00	0.00	0.053	0					0.51
23.833	0.00	0.00	0.053	0					0.51
23.917	0.00	0.00	0.053	0					0.51
24.000	0.00	0.00	0.053	0					0.51
24.083	0.00	0.00	0.053	0					0.51
24.167	0.00	0.00	0.053	0					0.51
24.250	0.00	0.00	0.053	0					0.51
24.333	0.00	0.00	0.053	0					0.51
24.417	0.00	0.00	0.053	0					0.51
24.500	0.00	0.00	0.053	0					0.51
24.583	0.00	0.00	0.053	0					0.51
24.667	0.00	0.00	0.053	0					0.51
24.750	0.00	0.00	0.053	0					0.51
24.833	0.00	0.00	0.053	0					0.51
24.917	0.00	0.00	0.053	0					0.51
25.000	0.00	0.00	0.053	0					0.51
25.083	0.00	0.00	0.053	0					0.51
25.167	0.00	0.00	0.053	0					0.50
25.250	0.00	0.00	0.053	0					0.50
25.333	0.00	0.00	0.053	0					0.50
25.417	0.00	0.00	0.053	0					0.50
25.500	0.00	0.00	0.053	0					0.50
25.583	0.00	0.00	0.053	0					0.50
25.667	0.00	0.00	0.053	0					0.50
25.750	0.00	0.00	0.052	0					0.50
25.833	0.00	0.00	0.052	0					0.50
25.917	0.00	0.00	0.052	0					0.50
26.000	0.00	0.00	0.052	0					0.50
26.083	0.00	0.00	0.052	0					0.50
26.167	0.00	0.00	0.052	0					0.50
26.250	0.00	0.00	0.052	0					0.50
26.333	0.00	0.00	0.052	0					0.50
26.417	0.00	0.00	0.052	0					0.50
26.500	0.00	0.00	0.052	0					0.50
26.583	0.00	0.00	0.052	0					0.50
26.667	0.00	0.00	0.052	0					0.50
26.750	0.00	0.00	0.052	0					0.50
26.833	0.00	0.00	0.052	0					0.50
26.917	0.00	0.00	0.052	0					0.50

27.000	0.00	0.00	0.052	0					0.50
27.083	0.00	0.00	0.052	0					0.50
27.167	0.00	0.00	0.052	0					0.50
27.250	0.00	0.00	0.052	0					0.50
27.333	0.00	0.00	0.052	0					0.50
27.417	0.00	0.00	0.052	0					0.50
27.500	0.00	0.00	0.052	0					0.50
27.583	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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*****HYDROGRAPH DATA*****
      Number of intervals = 331
      Time interval = 5.0 (Min.)
      Maximum/Peak flow rate = 0.196 (CFS)
      Total volume = 0.124 (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 - 2018
Study date: 08/24/22

A21626 DMA 2 10YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH2410.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.510 (CFS)
Total volume = 0.290 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	Depth (Ft.)					
				.0	0.1	0.25	0.38	0.51	
0.083	0.02	0.00	0.000	O I					0.00
0.167	0.03	0.00	0.000	O I					0.00
0.250	0.03	0.00	0.000	O I					0.00
0.333	0.04	0.00	0.001	O I					0.01
0.417	0.04	0.00	0.001	O I					0.01
0.500	0.04	0.00	0.001	O I					0.01
0.583	0.04	0.00	0.002	O I					0.01
0.667	0.04	0.00	0.002	O I					0.02
0.750	0.04	0.00	0.002	O I					0.02
0.833	0.05	0.00	0.002	O I					0.02
0.917	0.06	0.00	0.003	O I					0.03
1.000	0.06	0.00	0.003	O I					0.03
1.083	0.05	0.00	0.004	O I					0.03
1.167	0.04	0.00	0.004	O I					0.04
1.250	0.04	0.00	0.004	O I					0.04
1.333	0.04	0.00	0.004	O I					0.04
1.417	0.04	0.00	0.005	O I					0.05
1.500	0.04	0.00	0.005	O I					0.05
1.583	0.04	0.00	0.005	O I					0.05
1.667	0.04	0.00	0.006	O I					0.05
1.750	0.04	0.00	0.006	O I					0.06
1.833	0.05	0.00	0.006	O I					0.06
1.917	0.06	0.00	0.007	O I					0.06

2.000	0.06	0.00	0.007	0	I					0.07
2.083	0.06	0.00	0.007	0	I					0.07
2.167	0.06	0.00	0.008	0	I					0.07
2.250	0.06	0.00	0.008	0	I					0.08
2.333	0.06	0.00	0.008	0	I					0.08
2.417	0.06	0.00	0.009	0	I					0.09
2.500	0.06	0.00	0.009	0	I					0.09
2.583	0.07	0.00	0.010	0	I					0.09
2.667	0.07	0.00	0.010	0	I					0.10
2.750	0.07	0.00	0.011	0	I					0.10
2.833	0.07	0.00	0.011	0	I					0.11
2.917	0.07	0.00	0.012	0	I					0.11
3.000	0.07	0.00	0.012	0	I					0.12
3.083	0.07	0.00	0.013	0	I					0.12
3.167	0.07	0.00	0.013	0	I					0.13
3.250	0.07	0.00	0.013	0	I					0.13
3.333	0.07	0.00	0.014	0	I					0.13
3.417	0.07	0.00	0.014	0	I					0.14
3.500	0.07	0.00	0.015	0	I					0.14
3.583	0.07	0.00	0.015	0	I					0.15
3.667	0.07	0.00	0.016	0	I					0.15
3.750	0.07	0.00	0.016	0	I					0.16
3.833	0.08	0.00	0.017	0	I					0.16
3.917	0.08	0.00	0.017	0	I					0.17
4.000	0.08	0.00	0.018	0	I					0.17
4.083	0.08	0.00	0.019	0	I					0.18
4.167	0.08	0.00	0.019	0	I					0.18
4.250	0.08	0.00	0.020	0	I					0.19
4.333	0.09	0.00	0.020	0	I					0.20
4.417	0.10	0.00	0.021	0	I					0.20
4.500	0.10	0.00	0.022	0	I					0.21
4.583	0.10	0.00	0.022	0	I					0.22
4.667	0.10	0.00	0.023	0	I					0.22
4.750	0.10	0.00	0.024	0	I					0.23
4.833	0.11	0.00	0.024	0	I					0.23
4.917	0.11	0.00	0.025	0	I					0.24
5.000	0.11	0.00	0.026	0	I					0.25
5.083	0.09	0.00	0.027	0	I					0.26
5.167	0.08	0.00	0.027	0	I					0.26
5.250	0.08	0.00	0.028	0	I					0.27
5.333	0.09	0.00	0.028	0	I					0.27
5.417	0.10	0.00	0.029	0	I					0.28
5.500	0.10	0.00	0.030	0	I					0.29
5.583	0.11	0.00	0.031	0	I					0.29
5.667	0.11	0.00	0.031	0	I					0.30
5.750	0.11	0.00	0.032	0	I					0.31
5.833	0.11	0.00	0.033	0	I					0.32
5.917	0.11	0.00	0.034	0	I					0.32
6.000	0.11	0.00	0.034	0	I					0.33
6.083	0.12	0.00	0.035	0	I					0.34

6.167	0.13	0.00	0.036	0	I				0.35
6.250	0.13	0.00	0.037	0	I				0.35
6.333	0.13	0.00	0.038	0	I				0.36
6.417	0.13	0.00	0.039	0	I				0.37
6.500	0.13	0.00	0.039	0	I				0.38
6.583	0.14	0.00	0.040	0	I				0.39
6.667	0.14	0.00	0.041	0	I				0.40
6.750	0.14	0.00	0.042	0	I				0.41
6.833	0.14	0.00	0.043	0	I				0.42
6.917	0.14	0.00	0.044	0	I				0.42
7.000	0.14	0.00	0.045	0	I				0.43
7.083	0.14	0.00	0.046	0	I				0.44
7.167	0.14	0.00	0.047	0	I				0.45
7.250	0.14	0.00	0.048	0	I				0.46
7.333	0.15	0.00	0.049	0	I				0.47
7.417	0.15	0.00	0.050	0	I				0.48
7.500	0.15	0.00	0.051	0	I				0.49
7.583	0.16	0.00	0.052	0	I				0.50
7.667	0.17	0.00	0.053	0	I				0.51
7.750	0.17	0.01	0.054	0	I				0.52
7.833	0.18	0.01	0.056	0	I				0.53
7.917	0.18	0.02	0.057	0	I				0.54
8.000	0.18	0.02	0.058	0	I				0.55
8.083	0.20	0.02	0.059	0	I				0.56
8.167	0.21	0.03	0.060	0	I				0.57
8.250	0.21	0.03	0.062	0	I				0.58
8.333	0.21	0.04	0.063	0	I				0.59
8.417	0.21	0.04	0.064	0	I				0.60
8.500	0.21	0.04	0.065	0	I				0.61
8.583	0.22	0.05	0.066	0	I				0.62
8.667	0.22	0.05	0.067	0	I				0.63
8.750	0.22	0.06	0.069	0	I				0.64
8.833	0.23	0.06	0.070	0	I				0.65
8.917	0.24	0.06	0.071	0	I				0.66
9.000	0.24	0.07	0.072	0	I				0.67
9.083	0.26	0.07	0.073	0	I				0.68
9.167	0.27	0.08	0.075	0	I				0.69
9.250	0.27	0.08	0.076	0	I				0.70
9.333	0.28	0.08	0.077	0	I				0.71
9.417	0.28	0.09	0.079	0	I				0.73
9.500	0.28	0.09	0.080	0	I				0.74
9.583	0.29	0.10	0.081	0	I				0.75
9.667	0.29	0.10	0.083	0	I				0.76
9.750	0.29	0.11	0.084	0	I				0.77
9.833	0.30	0.11	0.085	0	I				0.78
9.917	0.31	0.11	0.086	0	I				0.79
10.000	0.31	0.12	0.088	0	I				0.80
10.083	0.24	0.12	0.089	0	I				0.81
10.167	0.21	0.12	0.090	0	I				0.82
10.250	0.21	0.13	0.090	0	I				0.82

10.333	0.21	0.13	0.091	0	I			0.83	
10.417	0.21	0.13	0.091	0	I			0.83	
10.500	0.21	0.13	0.092	0	I			0.84	
10.583	0.26	0.13	0.092	0		I		0.84	
10.667	0.28	0.14	0.093	0		I		0.85	
10.750	0.28	0.14	0.094	0		I		0.86	
10.833	0.28	0.14	0.095	0		I		0.87	
10.917	0.28	0.15	0.096	0		I		0.87	
11.000	0.28	0.15	0.097	0		I		0.88	
11.083	0.27	0.15	0.098	0		I		0.89	
11.167	0.27	0.16	0.099	0		I		0.90	
11.250	0.27	0.16	0.099	0		I		0.90	
11.333	0.27	0.16	0.100	0		I		0.91	
11.417	0.27	0.16	0.101	0		I		0.91	
11.500	0.27	0.17	0.102	0		I		0.92	
11.583	0.25	0.17	0.102	0		I		0.93	
11.667	0.24	0.17	0.103	0		I		0.93	
11.750	0.24	0.17	0.103	0		I		0.93	
11.833	0.25	0.17	0.104	0		I		0.94	
11.917	0.25	0.17	0.104	0		I		0.94	
12.000	0.25	0.18	0.105	0		I		0.95	
12.083	0.32	0.18	0.106	0			I	0.95	
12.167	0.35	0.18	0.107	0			I	0.96	
12.250	0.35	0.19	0.108	0			I	0.97	
12.333	0.36	0.19	0.109	0			I	0.98	
12.417	0.36	0.19	0.110	0			I	0.99	
12.500	0.36	0.20	0.111	0			I	1.00	
12.583	0.38	0.20	0.112	0			I	1.01	
12.667	0.39	0.20	0.114	0			I	1.02	
12.750	0.39	0.20	0.115	0			I	1.03	
12.833	0.40	0.20	0.116	0			I	1.04	
12.917	0.41	0.20	0.118	0			I	1.05	
13.000	0.41	0.20	0.119	0			I	1.06	
13.083	0.48	0.20	0.121	0				I	1.08
13.167	0.51	0.20	0.123	0				I	1.09
13.250	0.51	0.20	0.125	0				I	1.11
13.333	0.51	0.20	0.127	0				I	1.12
13.417	0.51	0.20	0.130	0				I	1.14
13.500	0.51	0.20	0.132	0				I	1.16
13.583	0.37	0.20	0.133	0			I		1.17
13.667	0.32	0.20	0.134	0			I		1.18
13.750	0.32	0.20	0.135	0			I		1.18
13.833	0.32	0.20	0.136	0			I		1.19
13.917	0.32	0.20	0.137	0			I		1.20
14.000	0.32	0.20	0.138	0			I		1.20
14.083	0.36	0.20	0.139	0			I		1.21
14.167	0.38	0.20	0.140	0			I		1.22
14.250	0.38	0.20	0.141	0			I		1.23
14.333	0.37	0.20	0.143	0			I		1.24
14.417	0.36	0.20	0.144	0			I		1.25

14.500	0.36	0.20	0.145		0	I	1.26
14.583	0.36	0.20	0.146		0	I	1.26
14.667	0.36	0.20	0.147		0	I	1.27
14.750	0.36	0.20	0.148		0	I	1.28
14.833	0.35	0.20	0.149		0	I	1.29
14.917	0.35	0.20	0.150		0	I	1.30
15.000	0.35	0.20	0.152		0	I	1.31
15.083	0.34	0.20	0.153		0	I	1.31
15.167	0.34	0.20	0.154		0	I	1.32
15.250	0.34	0.20	0.154		0	I	1.33
15.333	0.33	0.20	0.155		0	I	1.34
15.417	0.32	0.20	0.156		0	I	1.34
15.500	0.32	0.20	0.157		0	I	1.35
15.583	0.28	0.20	0.158		0	I	1.35
15.667	0.27	0.20	0.158		0	I	1.36
15.750	0.27	0.20	0.159		0	I	1.36
15.833	0.27	0.20	0.159		0	I	1.37
15.917	0.27	0.20	0.160		0	I	1.37
16.000	0.27	0.20	0.160		0	I	1.37
16.083	0.11	0.20	0.160	I	0		1.37
16.167	0.06	0.20	0.159	I	0		1.37
16.250	0.06	0.20	0.159	I	0		1.36
16.333	0.06	0.20	0.158	I	0		1.35
16.417	0.06	0.20	0.157	I	0		1.35
16.500	0.06	0.20	0.156	I	0		1.34
16.583	0.05	0.20	0.155	I	0		1.33
16.667	0.04	0.20	0.154	I	0		1.32
16.750	0.04	0.20	0.152	I	0		1.31
16.833	0.04	0.20	0.151	I	0		1.31
16.917	0.04	0.20	0.150	I	0		1.30
17.000	0.04	0.20	0.149	I	0		1.29
17.083	0.06	0.20	0.148	I	0		1.28
17.167	0.07	0.20	0.147	I	0		1.28
17.250	0.07	0.20	0.147	I	0		1.27
17.333	0.07	0.20	0.146	I	0		1.26
17.417	0.07	0.20	0.145	I	0		1.26
17.500	0.07	0.20	0.144	I	0		1.25
17.583	0.07	0.20	0.143	I	0		1.24
17.667	0.07	0.20	0.142	I	0		1.24
17.750	0.07	0.20	0.141	I	0		1.23
17.833	0.06	0.20	0.140	I	0		1.22
17.917	0.06	0.20	0.139	I	0		1.22
18.000	0.06	0.20	0.138	I	0		1.21
18.083	0.06	0.20	0.138	I	0		1.20
18.167	0.06	0.20	0.137	I	0		1.19
18.250	0.06	0.20	0.136	I	0		1.19
18.333	0.06	0.20	0.135	I	0		1.18
18.417	0.06	0.20	0.134	I	0		1.17
18.500	0.06	0.20	0.133	I	0		1.16
18.583	0.05	0.20	0.132	I	0		1.16

18.667	0.04	0.20	0.131	I	0			1.15
18.750	0.04	0.20	0.130	I	0			1.14
18.833	0.03	0.20	0.128	I	0			1.13
18.917	0.03	0.20	0.127	I	0			1.12
19.000	0.03	0.20	0.126	I	0			1.11
19.083	0.04	0.20	0.125	I	0			1.11
19.167	0.04	0.20	0.124	I	0			1.10
19.250	0.04	0.20	0.123	I	0			1.09
19.333	0.05	0.20	0.122	I	0			1.08
19.417	0.06	0.20	0.121	I	0			1.07
19.500	0.06	0.20	0.120	I	0			1.07
19.583	0.05	0.20	0.119	I	0			1.06
19.667	0.04	0.20	0.118	I	0			1.05
19.750	0.04	0.20	0.117	I	0			1.04
19.833	0.03	0.20	0.116	I	0			1.04
19.917	0.03	0.20	0.115	I	0			1.03
20.000	0.03	0.20	0.113	I	0			1.02
20.083	0.04	0.20	0.112	I	0			1.01
20.167	0.04	0.20	0.111	I	0			1.00
20.250	0.04	0.19	0.110	I	0			0.99
20.333	0.04	0.19	0.109	I	0			0.98
20.417	0.04	0.19	0.108	I	0			0.98
20.500	0.04	0.18	0.107	I	0			0.97
20.583	0.04	0.18	0.106	I	0			0.96
20.667	0.04	0.18	0.105	I	0			0.95
20.750	0.04	0.17	0.104	I	0			0.94
20.833	0.03	0.17	0.103	I	0			0.94
20.917	0.03	0.17	0.102	I	0			0.93
21.000	0.03	0.16	0.101	I	0			0.92
21.083	0.04	0.16	0.101	I	0			0.91
21.167	0.04	0.16	0.100	I	0			0.90
21.250	0.04	0.16	0.099	I	0			0.90
21.333	0.03	0.15	0.098	I	0			0.89
21.417	0.03	0.15	0.097	I	0			0.88
21.500	0.03	0.15	0.096	I	0			0.88
21.583	0.04	0.15	0.096	I	0			0.87
21.667	0.04	0.14	0.095	I	0			0.86
21.750	0.04	0.14	0.094	I	0			0.86
21.833	0.03	0.14	0.094	I	0			0.85
21.917	0.03	0.14	0.093	I	0			0.85
22.000	0.03	0.13	0.092	I	0			0.84
22.083	0.04	0.13	0.091	I	0			0.83
22.167	0.04	0.13	0.091	I	0			0.83
22.250	0.04	0.13	0.090	I	0			0.82
22.333	0.03	0.12	0.090	I	0			0.82
22.417	0.03	0.12	0.089	I	0			0.81
22.500	0.03	0.12	0.088	I	0			0.81
22.583	0.03	0.12	0.088	I	0			0.80
22.667	0.03	0.12	0.087	I	0			0.80
22.750	0.03	0.11	0.086	I	0			0.79

22.833	0.03	0.11	0.086	I	0					0.79
22.917	0.03	0.11	0.085	I	0					0.78
23.000	0.03	0.11	0.085	I	0					0.78
23.083	0.03	0.11	0.084	I	0					0.77
23.167	0.03	0.11	0.084	I	0					0.77
23.250	0.03	0.10	0.083	I	0					0.76
23.333	0.03	0.10	0.083	I	0					0.76
23.417	0.03	0.10	0.082	I	0					0.75
23.500	0.03	0.10	0.082	I	0					0.75
23.583	0.03	0.10	0.081	I	0					0.75
23.667	0.03	0.10	0.081	I	0					0.74
23.750	0.03	0.09	0.080	I	0					0.74
23.833	0.03	0.09	0.080	I	0					0.73
23.917	0.03	0.09	0.079	I	0					0.73
24.000	0.03	0.09	0.079	I	0					0.73
24.083	0.01	0.09	0.078	I	0					0.72
24.167	0.00	0.09	0.078	I	0					0.72
24.250	0.00	0.08	0.077	I	0					0.71
24.333	0.00	0.08	0.077	I	0					0.71
24.417	0.00	0.08	0.076	I	0					0.70
24.500	0.00	0.08	0.076	I	0					0.70
24.583	0.00	0.08	0.075	I	0					0.69
24.667	0.00	0.07	0.074	I	0					0.69
24.750	0.00	0.07	0.074	I	0					0.69
24.833	0.00	0.07	0.073	I	0					0.68
24.917	0.00	0.07	0.073	I	0					0.68
25.000	0.00	0.07	0.073	I	0					0.67
25.083	0.00	0.07	0.072	I	0					0.67
25.167	0.00	0.07	0.072	I	0					0.67
25.250	0.00	0.06	0.071	I	0					0.66
25.333	0.00	0.06	0.071	I	0					0.66
25.417	0.00	0.06	0.070	I	0					0.65
25.500	0.00	0.06	0.070	I	0					0.65
25.583	0.00	0.06	0.069	I	0					0.65
25.667	0.00	0.06	0.069	I	0					0.64
25.750	0.00	0.06	0.069	I	0					0.64
25.833	0.00	0.05	0.068	I	0					0.64
25.917	0.00	0.05	0.068	I	0					0.64
26.000	0.00	0.05	0.068	I	0					0.63
26.083	0.00	0.05	0.067	I	0					0.63
26.167	0.00	0.05	0.067	I	0					0.63
26.250	0.00	0.05	0.067	I	0					0.62
26.333	0.00	0.05	0.066	I	0					0.62
26.417	0.00	0.05	0.066	I	0					0.62
26.500	0.00	0.05	0.066	I	0					0.62
26.583	0.00	0.04	0.065	I	0					0.61
26.667	0.00	0.04	0.065	I	0					0.61
26.750	0.00	0.04	0.065	I	0					0.61
26.833	0.00	0.04	0.064	I	0					0.60
26.917	0.00	0.04	0.064	I	0					0.60

27.000	0.00	0.04	0.064	I 0					0.60
27.083	0.00	0.04	0.064	I 0					0.60
27.167	0.00	0.04	0.063	I 0					0.60
27.250	0.00	0.04	0.063	I 0					0.59
27.333	0.00	0.04	0.063	I 0					0.59
27.417	0.00	0.04	0.063	I 0					0.59
27.500	0.00	0.03	0.062	I 0					0.59
27.583	0.00	0.03	0.062	I 0					0.59
27.667	0.00	0.03	0.062	I 0					0.58
27.750	0.00	0.03	0.062	I 0					0.58
27.833	0.00	0.03	0.061	IO					0.58
27.917	0.00	0.03	0.061	IO					0.58
28.000	0.00	0.03	0.061	IO					0.58
28.083	0.00	0.03	0.061	IO					0.57
28.167	0.00	0.03	0.061	IO					0.57
28.250	0.00	0.03	0.060	IO					0.57
28.333	0.00	0.03	0.060	IO					0.57
28.417	0.00	0.03	0.060	IO					0.57
28.500	0.00	0.03	0.060	IO					0.57
28.583	0.00	0.03	0.060	IO					0.56
28.667	0.00	0.02	0.059	IO					0.56
28.750	0.00	0.02	0.059	IO					0.56
28.833	0.00	0.02	0.059	IO					0.56
28.917	0.00	0.02	0.059	IO					0.56
29.000	0.00	0.02	0.059	IO					0.56
29.083	0.00	0.02	0.059	IO					0.56
29.167	0.00	0.02	0.059	IO					0.56
29.250	0.00	0.02	0.058	IO					0.55
29.333	0.00	0.02	0.058	IO					0.55
29.417	0.00	0.02	0.058	IO					0.55
29.500	0.00	0.02	0.058	IO					0.55
29.583	0.00	0.02	0.058	IO					0.55
29.667	0.00	0.02	0.058	IO					0.55
29.750	0.00	0.02	0.058	IO					0.55
29.833	0.00	0.02	0.057	IO					0.55
29.917	0.00	0.02	0.057	IO					0.54
30.000	0.00	0.02	0.057	IO					0.54
30.083	0.00	0.02	0.057	IO					0.54
30.167	0.00	0.02	0.057	IO					0.54
30.250	0.00	0.02	0.057	IO					0.54
30.333	0.00	0.02	0.057	0					0.54
30.417	0.00	0.02	0.057	0					0.54
30.500	0.00	0.02	0.057	0					0.54
30.583	0.00	0.01	0.056	0					0.54
30.667	0.00	0.01	0.056	0					0.54
30.750	0.00	0.01	0.056	0					0.54
30.833	0.00	0.01	0.056	0					0.53
30.917	0.00	0.01	0.056	0					0.53
31.000	0.00	0.01	0.056	0					0.53
31.083	0.00	0.01	0.056	0					0.53

31.167	0.00	0.01	0.056	0					0.53
31.250	0.00	0.01	0.056	0					0.53
31.333	0.00	0.01	0.056	0					0.53
31.417	0.00	0.01	0.056	0					0.53
31.500	0.00	0.01	0.055	0					0.53
31.583	0.00	0.01	0.055	0					0.53
31.667	0.00	0.01	0.055	0					0.53
31.750	0.00	0.01	0.055	0					0.53
31.833	0.00	0.01	0.055	0					0.53
31.917	0.00	0.01	0.055	0					0.53
32.000	0.00	0.01	0.055	0					0.53
32.083	0.00	0.01	0.055	0					0.52
32.167	0.00	0.01	0.055	0					0.52
32.250	0.00	0.01	0.055	0					0.52
32.333	0.00	0.01	0.055	0					0.52
32.417	0.00	0.01	0.055	0					0.52
32.500	0.00	0.01	0.055	0					0.52
32.583	0.00	0.01	0.055	0					0.52
32.667	0.00	0.01	0.054	0					0.52
32.750	0.00	0.01	0.054	0					0.52
32.833	0.00	0.01	0.054	0					0.52
32.917	0.00	0.01	0.054	0					0.52
33.000	0.00	0.01	0.054	0					0.52
33.083	0.00	0.01	0.054	0					0.52
33.167	0.00	0.01	0.054	0					0.52
33.250	0.00	0.01	0.054	0					0.52
33.333	0.00	0.01	0.054	0					0.52
33.417	0.00	0.01	0.054	0					0.52
33.500	0.00	0.01	0.054	0					0.52
33.583	0.00	0.01	0.054	0					0.52
33.667	0.00	0.01	0.054	0					0.52
33.750	0.00	0.01	0.054	0					0.52
33.833	0.00	0.01	0.054	0					0.52
33.917	0.00	0.01	0.054	0					0.51
34.000	0.00	0.01	0.054	0					0.51
34.083	0.00	0.01	0.054	0					0.51
34.167	0.00	0.01	0.054	0					0.51
34.250	0.00	0.01	0.054	0					0.51
34.333	0.00	0.01	0.054	0					0.51
34.417	0.00	0.01	0.054	0					0.51
34.500	0.00	0.01	0.054	0					0.51
34.583	0.00	0.00	0.053	0					0.51
34.667	0.00	0.00	0.053	0					0.51
34.750	0.00	0.00	0.053	0					0.51
34.833	0.00	0.00	0.053	0					0.51
34.917	0.00	0.00	0.053	0					0.51
35.000	0.00	0.00	0.053	0					0.51
35.083	0.00	0.00	0.053	0					0.51
35.167	0.00	0.00	0.053	0					0.51
35.250	0.00	0.00	0.053	0					0.51

35.333	0.00	0.00	0.053	0					0.51
35.417	0.00	0.00	0.053	0					0.51
35.500	0.00	0.00	0.053	0					0.51
35.583	0.00	0.00	0.053	0					0.51
35.667	0.00	0.00	0.053	0					0.51
35.750	0.00	0.00	0.053	0					0.51
35.833	0.00	0.00	0.053	0					0.51
35.917	0.00	0.00	0.053	0					0.51
36.000	0.00	0.00	0.053	0					0.51
36.083	0.00	0.00	0.053	0					0.51
36.167	0.00	0.00	0.053	0					0.51
36.250	0.00	0.00	0.053	0					0.51
36.333	0.00	0.00	0.053	0					0.51
36.417	0.00	0.00	0.053	0					0.51
36.500	0.00	0.00	0.053	0					0.51
36.583	0.00	0.00	0.053	0					0.51
36.667	0.00	0.00	0.053	0					0.51
36.750	0.00	0.00	0.053	0					0.51
36.833	0.00	0.00	0.053	0					0.51
36.917	0.00	0.00	0.053	0					0.51
37.000	0.00	0.00	0.053	0					0.51
37.083	0.00	0.00	0.053	0					0.51
37.167	0.00	0.00	0.053	0					0.51
37.250	0.00	0.00	0.053	0					0.51
37.333	0.00	0.00	0.053	0					0.51
37.417	0.00	0.00	0.053	0					0.51
37.500	0.00	0.00	0.053	0					0.51
37.583	0.00	0.00	0.053	0					0.51
37.667	0.00	0.00	0.053	0					0.51
37.750	0.00	0.00	0.053	0					0.51
37.833	0.00	0.00	0.053	0					0.51
37.917	0.00	0.00	0.053	0					0.50
38.000	0.00	0.00	0.053	0					0.50
38.083	0.00	0.00	0.053	0					0.50
38.167	0.00	0.00	0.053	0					0.50
38.250	0.00	0.00	0.053	0					0.50
38.333	0.00	0.00	0.053	0					0.50
38.417	0.00	0.00	0.053	0					0.50
38.500	0.00	0.00	0.053	0					0.50
38.583	0.00	0.00	0.052	0					0.50
38.667	0.00	0.00	0.052	0					0.50
38.750	0.00	0.00	0.052	0					0.50
38.833	0.00	0.00	0.052	0					0.50
38.917	0.00	0.00	0.052	0					0.50
39.000	0.00	0.00	0.052	0					0.50
39.083	0.00	0.00	0.052	0					0.50
39.167	0.00	0.00	0.052	0					0.50
39.250	0.00	0.00	0.052	0					0.50
39.333	0.00	0.00	0.052	0					0.50
39.417	0.00	0.00	0.052	0					0.50

39.500	0.00	0.00	0.052	0					0.50
39.583	0.00	0.00	0.052	0					0.50
39.667	0.00	0.00	0.052	0					0.50
39.750	0.00	0.00	0.052	0					0.50
39.833	0.00	0.00	0.052	0					0.50
39.917	0.00	0.00	0.052	0					0.50
40.000	0.00	0.00	0.052	0					0.50
40.083	0.00	0.00	0.052	0					0.50
40.167	0.00	0.00	0.052	0					0.50
40.250	0.00	0.00	0.052	0					0.50
40.333	0.00	0.00	0.052	0					0.50
40.417	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

*****HYDROGRAPH DATA*****
 Number of intervals = 485
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 0.196 (CFS)
 Total volume = 0.238 (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

DMA 2 Proposed 100-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 2 100YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: a21626DMA2Q100UH1100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 5.172 (CFS)
Total volume = 0.157 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 13

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)						Depth (Ft.)
				.0	1.3	2.59	3.88	5.17	
0.083	0.69	0.00	0.002	0	I				0.02
0.167	0.97	0.00	0.008	0	I				0.08
0.250	1.13	0.00	0.015	0	I				0.15
0.333	1.19	0.00	0.023	0	I				0.22
0.417	1.24	0.00	0.032	0	I				0.31
0.500	1.39	0.00	0.041	0	I				0.39
0.583	1.69	0.00	0.051	0		I			0.49
0.667	2.00	0.04	0.064	0		I			0.60
0.750	2.72	0.09	0.080	0			I		0.74
0.833	5.17	0.18	0.106	0				I	0.96
0.917	2.96	0.20	0.133	0			I		1.16
1.000	1.27	0.20	0.146	0	I				1.26
1.083	0.30	0.20	0.150	0					1.30
1.167	0.00	0.20	0.150	IO					1.29
1.250	0.00	0.20	0.148	IO					1.28
1.333	0.00	0.20	0.147	IO					1.27
1.417	0.00	0.20	0.146	IO					1.26
1.500	0.00	0.20	0.144	IO					1.25
1.583	0.00	0.20	0.143	IO					1.24
1.667	0.00	0.20	0.142	IO					1.23
1.750	0.00	0.20	0.140	IO					1.22
1.833	0.00	0.20	0.139	IO					1.21
1.917	0.00	0.20	0.137	IO					1.20

2.000	0.00	0.20	0.136	IO					1.19
2.083	0.00	0.20	0.135	IO					1.18
2.167	0.00	0.20	0.133	IO					1.17
2.250	0.00	0.20	0.132	IO					1.16
2.333	0.00	0.20	0.131	IO					1.15
2.417	0.00	0.20	0.129	IO					1.14
2.500	0.00	0.20	0.128	IO					1.13
2.583	0.00	0.20	0.127	IO					1.12
2.667	0.00	0.20	0.125	IO					1.11
2.750	0.00	0.20	0.124	IO					1.10
2.833	0.00	0.20	0.123	IO					1.09
2.917	0.00	0.20	0.121	IO					1.08
3.000	0.00	0.20	0.120	IO					1.07
3.083	0.00	0.20	0.119	IO					1.06
3.167	0.00	0.20	0.117	IO					1.05
3.250	0.00	0.20	0.116	IO					1.04
3.333	0.00	0.20	0.114	IO					1.03
3.417	0.00	0.20	0.113	IO					1.02
3.500	0.00	0.20	0.112	IO					1.01
3.583	0.00	0.19	0.110	IO					1.00
3.667	0.00	0.19	0.109	IO					0.98
3.750	0.00	0.19	0.108	IO					0.97
3.833	0.00	0.18	0.107	IO					0.96
3.917	0.00	0.18	0.105	IO					0.95
4.000	0.00	0.17	0.104	IO					0.94
4.083	0.00	0.17	0.103	IO					0.93
4.167	0.00	0.17	0.102	IO					0.92
4.250	0.00	0.16	0.101	IO					0.91
4.333	0.00	0.16	0.100	0					0.90
4.417	0.00	0.15	0.098	0					0.89
4.500	0.00	0.15	0.097	0					0.88
4.583	0.00	0.15	0.096	0					0.88
4.667	0.00	0.14	0.095	0					0.87
4.750	0.00	0.14	0.094	0					0.86
4.833	0.00	0.14	0.093	0					0.85
4.917	0.00	0.13	0.093	0					0.84
5.000	0.00	0.13	0.092	0					0.84
5.083	0.00	0.13	0.091	0					0.83
5.167	0.00	0.13	0.090	0					0.82
5.250	0.00	0.12	0.089	0					0.81
5.333	0.00	0.12	0.088	0					0.81
5.417	0.00	0.12	0.087	0					0.80
5.500	0.00	0.11	0.087	0					0.79
5.583	0.00	0.11	0.086	0					0.79
5.667	0.00	0.11	0.085	0					0.78
5.750	0.00	0.11	0.084	0					0.77
5.833	0.00	0.10	0.083	0					0.77
5.917	0.00	0.10	0.083	0					0.76
6.000	0.00	0.10	0.082	0					0.75
6.083	0.00	0.10	0.081	0					0.75

6.167	0.00	0.10	0.081	0					0.74
6.250	0.00	0.09	0.080	0					0.74
6.333	0.00	0.09	0.079	0					0.73
6.417	0.00	0.09	0.079	0					0.73
6.500	0.00	0.09	0.078	0					0.72
6.583	0.00	0.09	0.078	0					0.72
6.667	0.00	0.08	0.077	0					0.71
6.750	0.00	0.08	0.076	0					0.71
6.833	0.00	0.08	0.076	0					0.70
6.917	0.00	0.08	0.075	0					0.70
7.000	0.00	0.08	0.075	0					0.69
7.083	0.00	0.07	0.074	0					0.69
7.167	0.00	0.07	0.074	0					0.68
7.250	0.00	0.07	0.073	0					0.68
7.333	0.00	0.07	0.073	0					0.68
7.417	0.00	0.07	0.072	0					0.67
7.500	0.00	0.07	0.072	0					0.67
7.583	0.00	0.06	0.071	0					0.66
7.667	0.00	0.06	0.071	0					0.66
7.750	0.00	0.06	0.071	0					0.66
7.833	0.00	0.06	0.070	0					0.65
7.917	0.00	0.06	0.070	0					0.65
8.000	0.00	0.06	0.069	0					0.65
8.083	0.00	0.06	0.069	0					0.64
8.167	0.00	0.06	0.069	0					0.64
8.250	0.00	0.05	0.068	0					0.64
8.333	0.00	0.05	0.068	0					0.63
8.417	0.00	0.05	0.067	0					0.63
8.500	0.00	0.05	0.067	0					0.63
8.583	0.00	0.05	0.067	0					0.63
8.667	0.00	0.05	0.066	0					0.62
8.750	0.00	0.05	0.066	0					0.62
8.833	0.00	0.05	0.066	0					0.62
8.917	0.00	0.04	0.065	0					0.61
9.000	0.00	0.04	0.065	0					0.61
9.083	0.00	0.04	0.065	0					0.61
9.167	0.00	0.04	0.065	0					0.61
9.250	0.00	0.04	0.064	0					0.60
9.333	0.00	0.04	0.064	0					0.60
9.417	0.00	0.04	0.064	0					0.60
9.500	0.00	0.04	0.063	0					0.60
9.583	0.00	0.04	0.063	0					0.60
9.667	0.00	0.04	0.063	0					0.59
9.750	0.00	0.04	0.063	0					0.59
9.833	0.00	0.03	0.062	0					0.59
9.917	0.00	0.03	0.062	0					0.59
10.000	0.00	0.03	0.062	0					0.58
10.083	0.00	0.03	0.062	0					0.58
10.167	0.00	0.03	0.062	0					0.58
10.250	0.00	0.03	0.061	0					0.58

10.333	0.00	0.03	0.061	0					0.58
10.417	0.00	0.03	0.061	0					0.58
10.500	0.00	0.03	0.061	0					0.57
10.583	0.00	0.03	0.061	0					0.57
10.667	0.00	0.03	0.060	0					0.57
10.750	0.00	0.03	0.060	0					0.57
10.833	0.00	0.03	0.060	0					0.57
10.917	0.00	0.03	0.060	0					0.57
11.000	0.00	0.03	0.060	0					0.56
11.083	0.00	0.02	0.059	0					0.56
11.167	0.00	0.02	0.059	0					0.56
11.250	0.00	0.02	0.059	0					0.56
11.333	0.00	0.02	0.059	0					0.56
11.417	0.00	0.02	0.059	0					0.56
11.500	0.00	0.02	0.059	0					0.56
11.583	0.00	0.02	0.058	0					0.55
11.667	0.00	0.02	0.058	0					0.55
11.750	0.00	0.02	0.058	0					0.55
11.833	0.00	0.02	0.058	0					0.55
11.917	0.00	0.02	0.058	0					0.55
12.000	0.00	0.02	0.058	0					0.55
12.083	0.00	0.02	0.058	0					0.55
12.167	0.00	0.02	0.058	0					0.55
12.250	0.00	0.02	0.057	0					0.55
12.333	0.00	0.02	0.057	0					0.54
12.417	0.00	0.02	0.057	0					0.54
12.500	0.00	0.02	0.057	0					0.54
12.583	0.00	0.02	0.057	0					0.54
12.667	0.00	0.02	0.057	0					0.54
12.750	0.00	0.02	0.057	0					0.54
12.833	0.00	0.02	0.057	0					0.54
12.917	0.00	0.01	0.056	0					0.54
13.000	0.00	0.01	0.056	0					0.54
13.083	0.00	0.01	0.056	0					0.54
13.167	0.00	0.01	0.056	0					0.54
13.250	0.00	0.01	0.056	0					0.53
13.333	0.00	0.01	0.056	0					0.53
13.417	0.00	0.01	0.056	0					0.53
13.500	0.00	0.01	0.056	0					0.53
13.583	0.00	0.01	0.056	0					0.53
13.667	0.00	0.01	0.056	0					0.53
13.750	0.00	0.01	0.056	0					0.53
13.833	0.00	0.01	0.055	0					0.53
13.917	0.00	0.01	0.055	0					0.53
14.000	0.00	0.01	0.055	0					0.53
14.083	0.00	0.01	0.055	0					0.53
14.167	0.00	0.01	0.055	0					0.53
14.250	0.00	0.01	0.055	0					0.53
14.333	0.00	0.01	0.055	0					0.53
14.417	0.00	0.01	0.055	0					0.53

14.500	0.00	0.01	0.055	0					0.52
14.583	0.00	0.01	0.055	0					0.52
14.667	0.00	0.01	0.055	0					0.52
14.750	0.00	0.01	0.055	0					0.52
14.833	0.00	0.01	0.055	0					0.52
14.917	0.00	0.01	0.055	0					0.52
15.000	0.00	0.01	0.055	0					0.52
15.083	0.00	0.01	0.054	0					0.52
15.167	0.00	0.01	0.054	0					0.52
15.250	0.00	0.01	0.054	0					0.52
15.333	0.00	0.01	0.054	0					0.52
15.417	0.00	0.01	0.054	0					0.52
15.500	0.00	0.01	0.054	0					0.52
15.583	0.00	0.01	0.054	0					0.52
15.667	0.00	0.01	0.054	0					0.52
15.750	0.00	0.01	0.054	0					0.52
15.833	0.00	0.01	0.054	0					0.52
15.917	0.00	0.01	0.054	0					0.52
16.000	0.00	0.01	0.054	0					0.52
16.083	0.00	0.01	0.054	0					0.52
16.167	0.00	0.01	0.054	0					0.52
16.250	0.00	0.01	0.054	0					0.52
16.333	0.00	0.01	0.054	0					0.51
16.417	0.00	0.01	0.054	0					0.51
16.500	0.00	0.01	0.054	0					0.51
16.583	0.00	0.01	0.054	0					0.51
16.667	0.00	0.01	0.054	0					0.51
16.750	0.00	0.01	0.054	0					0.51
16.833	0.00	0.01	0.054	0					0.51
16.917	0.00	0.00	0.053	0					0.51
17.000	0.00	0.00	0.053	0					0.51
17.083	0.00	0.00	0.053	0					0.51
17.167	0.00	0.00	0.053	0					0.51
17.250	0.00	0.00	0.053	0					0.51
17.333	0.00	0.00	0.053	0					0.51
17.417	0.00	0.00	0.053	0					0.51
17.500	0.00	0.00	0.053	0					0.51
17.583	0.00	0.00	0.053	0					0.51
17.667	0.00	0.00	0.053	0					0.51
17.750	0.00	0.00	0.053	0					0.51
17.833	0.00	0.00	0.053	0					0.51
17.917	0.00	0.00	0.053	0					0.51
18.000	0.00	0.00	0.053	0					0.51
18.083	0.00	0.00	0.053	0					0.51
18.167	0.00	0.00	0.053	0					0.51
18.250	0.00	0.00	0.053	0					0.51
18.333	0.00	0.00	0.053	0					0.51
18.417	0.00	0.00	0.053	0					0.51
18.500	0.00	0.00	0.053	0					0.51
18.583	0.00	0.00	0.053	0					0.51

18.667	0.00	0.00	0.053	0					0.51
18.750	0.00	0.00	0.053	0					0.51
18.833	0.00	0.00	0.053	0					0.51
18.917	0.00	0.00	0.053	0					0.51
19.000	0.00	0.00	0.053	0					0.51
19.083	0.00	0.00	0.053	0					0.51
19.167	0.00	0.00	0.053	0					0.51
19.250	0.00	0.00	0.053	0					0.51
19.333	0.00	0.00	0.053	0					0.51
19.417	0.00	0.00	0.053	0					0.51
19.500	0.00	0.00	0.053	0					0.51
19.583	0.00	0.00	0.053	0					0.51
19.667	0.00	0.00	0.053	0					0.51
19.750	0.00	0.00	0.053	0					0.51
19.833	0.00	0.00	0.053	0					0.51
19.917	0.00	0.00	0.053	0					0.51
20.000	0.00	0.00	0.053	0					0.51
20.083	0.00	0.00	0.053	0					0.51
20.167	0.00	0.00	0.053	0					0.51
20.250	0.00	0.00	0.053	0					0.51
20.333	0.00	0.00	0.053	0					0.50
20.417	0.00	0.00	0.053	0					0.50
20.500	0.00	0.00	0.053	0					0.50
20.583	0.00	0.00	0.053	0					0.50
20.667	0.00	0.00	0.053	0					0.50
20.750	0.00	0.00	0.053	0					0.50
20.833	0.00	0.00	0.053	0					0.50
20.917	0.00	0.00	0.052	0					0.50
21.000	0.00	0.00	0.052	0					0.50
21.083	0.00	0.00	0.052	0					0.50
21.167	0.00	0.00	0.052	0					0.50
21.250	0.00	0.00	0.052	0					0.50
21.333	0.00	0.00	0.052	0					0.50
21.417	0.00	0.00	0.052	0					0.50
21.500	0.00	0.00	0.052	0					0.50
21.583	0.00	0.00	0.052	0					0.50
21.667	0.00	0.00	0.052	0					0.50
21.750	0.00	0.00	0.052	0					0.50
21.833	0.00	0.00	0.052	0					0.50
21.917	0.00	0.00	0.052	0					0.50
22.000	0.00	0.00	0.052	0					0.50
22.083	0.00	0.00	0.052	0					0.50
22.167	0.00	0.00	0.052	0					0.50
22.250	0.00	0.00	0.052	0					0.50
22.333	0.00	0.00	0.052	0					0.50
22.417	0.00	0.00	0.052	0					0.50
22.500	0.00	0.00	0.052	0					0.50
22.583	0.00	0.00	0.052	0					0.50
22.667	0.00	0.00	0.052	0					0.50
22.750	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 273

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.104 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 2 100YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH3100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.867 (CFS)
Total volume = 0.233 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.7	1.43	2.15	2.87	Depth (Ft.)
0.083	0.28	0.00	0.001	0	I				0.01
0.167	0.39	0.00	0.003	0	I				0.03
0.250	0.33	0.00	0.006	0	I				0.06
0.333	0.42	0.00	0.008	0	I				0.08
0.417	0.46	0.00	0.011	0	I				0.11
0.500	0.54	0.00	0.015	0	I				0.14
0.583	0.49	0.00	0.018	0	I				0.18
0.667	0.54	0.00	0.022	0	I				0.21
0.750	0.57	0.00	0.026	0	I				0.25
0.833	0.49	0.00	0.029	0	I				0.28
0.917	0.49	0.00	0.033	0	I				0.32
1.000	0.55	0.00	0.036	0	I				0.35
1.083	0.68	0.00	0.041	0	I				0.39
1.167	0.72	0.00	0.046	0	I				0.44
1.250	0.72	0.00	0.051	0	I				0.49
1.333	0.67	0.01	0.055	0	I				0.53
1.417	0.81	0.03	0.060	0	I				0.57
1.500	0.90	0.05	0.066	0	I				0.62
1.583	0.83	0.06	0.071	0	I				0.66
1.667	0.88	0.08	0.077	0	I				0.71
1.750	1.07	0.10	0.083	0	I				0.76
1.833	1.08	0.12	0.089	0	I				0.82
1.917	1.00	0.15	0.096	0	I				0.87

2.000	1.01	0.17	0.102	0		I				0.92
2.083	1.05	0.18	0.107	0		I				0.97
2.167	1.35	0.20	0.114	0			I			1.03
2.250	1.68	0.20	0.124	0				I		1.10
2.333	1.36	0.20	0.133	0			I			1.16
2.417	2.10	0.20	0.143	0				I		1.24
2.500	2.57	0.20	0.158	0					I	1.36
2.583	2.87	0.20	0.175	0						1.49
2.667	2.34	0.20	0.192	0				I		1.60
2.750	1.05	0.20	0.202	0		I				1.67
2.833	0.59	0.20	0.207	0	I					1.70
2.917	0.57	0.20	0.209	0	I					1.72
3.000	0.27	0.20	0.211	0	OI					1.73
3.083	0.04	0.20	0.211	I 0						1.73
3.167	0.00	0.20	0.209	I 0						1.72
3.250	0.00	0.20	0.208	I 0						1.71
3.333	0.00	0.20	0.207	I 0						1.70
3.417	0.00	0.20	0.205	I 0						1.69
3.500	0.00	0.20	0.204	I 0						1.68
3.583	0.00	0.20	0.203	I 0						1.67
3.667	0.00	0.20	0.201	I 0						1.66
3.750	0.00	0.20	0.200	I 0						1.65
3.833	0.00	0.20	0.199	I 0						1.65
3.917	0.00	0.20	0.197	I 0						1.64
4.000	0.00	0.20	0.196	I 0						1.63
4.083	0.00	0.20	0.194	I 0						1.62
4.167	0.00	0.20	0.193	I 0						1.61
4.250	0.00	0.20	0.192	I 0						1.60
4.333	0.00	0.20	0.190	I 0						1.59
4.417	0.00	0.20	0.189	I 0						1.58
4.500	0.00	0.20	0.188	I 0						1.57
4.583	0.00	0.20	0.186	I 0						1.56
4.667	0.00	0.20	0.185	I 0						1.55
4.750	0.00	0.20	0.184	I 0						1.55
4.833	0.00	0.20	0.182	I 0						1.54
4.917	0.00	0.20	0.181	I 0						1.53
5.000	0.00	0.20	0.180	I 0						1.52
5.083	0.00	0.20	0.178	I 0						1.51
5.167	0.00	0.20	0.177	I 0						1.50
5.250	0.00	0.20	0.176	I 0						1.49
5.333	0.00	0.20	0.174	I 0						1.48
5.417	0.00	0.20	0.173	I 0						1.47
5.500	0.00	0.20	0.172	I 0						1.46
5.583	0.00	0.20	0.170	I 0						1.45
5.667	0.00	0.20	0.169	I 0						1.44
5.750	0.00	0.20	0.167	I 0						1.43
5.833	0.00	0.20	0.166	I 0						1.42
5.917	0.00	0.20	0.165	I 0						1.41
6.000	0.00	0.20	0.163	I 0						1.40
6.083	0.00	0.20	0.162	I 0						1.39

6.167	0.00	0.20	0.161	I 0					1.38
6.250	0.00	0.20	0.159	I 0					1.37
6.333	0.00	0.20	0.158	I 0					1.36
6.417	0.00	0.20	0.157	I 0					1.35
6.500	0.00	0.20	0.155	I 0					1.34
6.583	0.00	0.20	0.154	I 0					1.33
6.667	0.00	0.20	0.153	I 0					1.31
6.750	0.00	0.20	0.151	I 0					1.30
6.833	0.00	0.20	0.150	I 0					1.29
6.917	0.00	0.20	0.149	I 0					1.28
7.000	0.00	0.20	0.147	I 0					1.27
7.083	0.00	0.20	0.146	I 0					1.26
7.167	0.00	0.20	0.144	I 0					1.25
7.250	0.00	0.20	0.143	I 0					1.24
7.333	0.00	0.20	0.142	I 0					1.23
7.417	0.00	0.20	0.140	I 0					1.22
7.500	0.00	0.20	0.139	I 0					1.21
7.583	0.00	0.20	0.138	I 0					1.20
7.667	0.00	0.20	0.136	I 0					1.19
7.750	0.00	0.20	0.135	I 0					1.18
7.833	0.00	0.20	0.134	I 0					1.17
7.917	0.00	0.20	0.132	I 0					1.16
8.000	0.00	0.20	0.131	I 0					1.15
8.083	0.00	0.20	0.130	I 0					1.14
8.167	0.00	0.20	0.128	I 0					1.13
8.250	0.00	0.20	0.127	I 0					1.12
8.333	0.00	0.20	0.126	I 0					1.11
8.417	0.00	0.20	0.124	I 0					1.10
8.500	0.00	0.20	0.123	I 0					1.09
8.583	0.00	0.20	0.121	I 0					1.08
8.667	0.00	0.20	0.120	I 0					1.07
8.750	0.00	0.20	0.119	I 0					1.06
8.833	0.00	0.20	0.117	I 0					1.05
8.917	0.00	0.20	0.116	I 0					1.04
9.000	0.00	0.20	0.115	I 0					1.03
9.083	0.00	0.20	0.113	I 0					1.02
9.167	0.00	0.20	0.112	I 0					1.01
9.250	0.00	0.20	0.111	I 0					1.00
9.333	0.00	0.19	0.109	I 0					0.99
9.417	0.00	0.19	0.108	I 0					0.97
9.500	0.00	0.18	0.107	I 0					0.96
9.583	0.00	0.18	0.106	IO					0.95
9.667	0.00	0.17	0.104	IO					0.94
9.750	0.00	0.17	0.103	IO					0.93
9.833	0.00	0.17	0.102	IO					0.92
9.917	0.00	0.16	0.101	IO					0.91
10.000	0.00	0.16	0.100	IO					0.90
10.083	0.00	0.16	0.099	IO					0.90
10.167	0.00	0.15	0.098	IO					0.89
10.250	0.00	0.15	0.097	IO					0.88

10.333	0.00	0.14	0.096	IO					0.87
10.417	0.00	0.14	0.095	IO					0.86
10.500	0.00	0.14	0.094	IO					0.85
10.583	0.00	0.14	0.093	IO					0.84
10.667	0.00	0.13	0.092	IO					0.84
10.750	0.00	0.13	0.091	IO					0.83
10.833	0.00	0.13	0.090	IO					0.82
10.917	0.00	0.12	0.089	IO					0.81
11.000	0.00	0.12	0.088	IO					0.81
11.083	0.00	0.12	0.087	IO					0.80
11.167	0.00	0.12	0.087	IO					0.79
11.250	0.00	0.11	0.086	IO					0.79
11.333	0.00	0.11	0.085	IO					0.78
11.417	0.00	0.11	0.084	IO					0.77
11.500	0.00	0.11	0.084	IO					0.77
11.583	0.00	0.10	0.083	IO					0.76
11.667	0.00	0.10	0.082	IO					0.76
11.750	0.00	0.10	0.081	IO					0.75
11.833	0.00	0.10	0.081	IO					0.74
11.917	0.00	0.09	0.080	IO					0.74
12.000	0.00	0.09	0.080	IO					0.73
12.083	0.00	0.09	0.079	0					0.73
12.167	0.00	0.09	0.078	0					0.72
12.250	0.00	0.09	0.078	0					0.72
12.333	0.00	0.08	0.077	0					0.71
12.417	0.00	0.08	0.077	0					0.71
12.500	0.00	0.08	0.076	0					0.70
12.583	0.00	0.08	0.075	0					0.70
12.667	0.00	0.08	0.075	0					0.69
12.750	0.00	0.07	0.074	0					0.69
12.833	0.00	0.07	0.074	0					0.69
12.917	0.00	0.07	0.073	0					0.68
13.000	0.00	0.07	0.073	0					0.68
13.083	0.00	0.07	0.072	0					0.67
13.167	0.00	0.07	0.072	0					0.67
13.250	0.00	0.06	0.072	0					0.67
13.333	0.00	0.06	0.071	0					0.66
13.417	0.00	0.06	0.071	0					0.66
13.500	0.00	0.06	0.070	0					0.65
13.583	0.00	0.06	0.070	0					0.65
13.667	0.00	0.06	0.069	0					0.65
13.750	0.00	0.06	0.069	0					0.64
13.833	0.00	0.06	0.069	0					0.64
13.917	0.00	0.05	0.068	0					0.64
14.000	0.00	0.05	0.068	0					0.63
14.083	0.00	0.05	0.068	0					0.63
14.167	0.00	0.05	0.067	0					0.63
14.250	0.00	0.05	0.067	0					0.63
14.333	0.00	0.05	0.066	0					0.62
14.417	0.00	0.05	0.066	0					0.62

14.500	0.00	0.05	0.066	0					0.62
14.583	0.00	0.05	0.066	0					0.61
14.667	0.00	0.04	0.065	0					0.61
14.750	0.00	0.04	0.065	0					0.61
14.833	0.00	0.04	0.065	0					0.61
14.917	0.00	0.04	0.064	0					0.60
15.000	0.00	0.04	0.064	0					0.60
15.083	0.00	0.04	0.064	0					0.60
15.167	0.00	0.04	0.064	0					0.60
15.250	0.00	0.04	0.063	0					0.60
15.333	0.00	0.04	0.063	0					0.59
15.417	0.00	0.04	0.063	0					0.59
15.500	0.00	0.03	0.063	0					0.59
15.583	0.00	0.03	0.062	0					0.59
15.667	0.00	0.03	0.062	0					0.59
15.750	0.00	0.03	0.062	0					0.58
15.833	0.00	0.03	0.062	0					0.58
15.917	0.00	0.03	0.061	0					0.58
16.000	0.00	0.03	0.061	0					0.58
16.083	0.00	0.03	0.061	0					0.58
16.167	0.00	0.03	0.061	0					0.57
16.250	0.00	0.03	0.061	0					0.57
16.333	0.00	0.03	0.060	0					0.57
16.417	0.00	0.03	0.060	0					0.57
16.500	0.00	0.03	0.060	0					0.57
16.583	0.00	0.03	0.060	0					0.57
16.667	0.00	0.03	0.060	0					0.56
16.750	0.00	0.02	0.059	0					0.56
16.833	0.00	0.02	0.059	0					0.56
16.917	0.00	0.02	0.059	0					0.56
17.000	0.00	0.02	0.059	0					0.56
17.083	0.00	0.02	0.059	0					0.56
17.167	0.00	0.02	0.059	0					0.56
17.250	0.00	0.02	0.058	0					0.56
17.333	0.00	0.02	0.058	0					0.55
17.417	0.00	0.02	0.058	0					0.55
17.500	0.00	0.02	0.058	0					0.55
17.583	0.00	0.02	0.058	0					0.55
17.667	0.00	0.02	0.058	0					0.55
17.750	0.00	0.02	0.058	0					0.55
17.833	0.00	0.02	0.058	0					0.55
17.917	0.00	0.02	0.057	0					0.55
18.000	0.00	0.02	0.057	0					0.54
18.083	0.00	0.02	0.057	0					0.54
18.167	0.00	0.02	0.057	0					0.54
18.250	0.00	0.02	0.057	0					0.54
18.333	0.00	0.02	0.057	0					0.54
18.417	0.00	0.02	0.057	0					0.54
18.500	0.00	0.02	0.057	0					0.54
18.583	0.00	0.01	0.057	0					0.54

18.667	0.00	0.01	0.056	0					0.54
18.750	0.00	0.01	0.056	0					0.54
18.833	0.00	0.01	0.056	0					0.54
18.917	0.00	0.01	0.056	0					0.53
19.000	0.00	0.01	0.056	0					0.53
19.083	0.00	0.01	0.056	0					0.53
19.167	0.00	0.01	0.056	0					0.53
19.250	0.00	0.01	0.056	0					0.53
19.333	0.00	0.01	0.056	0					0.53
19.417	0.00	0.01	0.056	0					0.53
19.500	0.00	0.01	0.055	0					0.53
19.583	0.00	0.01	0.055	0					0.53
19.667	0.00	0.01	0.055	0					0.53
19.750	0.00	0.01	0.055	0					0.53
19.833	0.00	0.01	0.055	0					0.53
19.917	0.00	0.01	0.055	0					0.53
20.000	0.00	0.01	0.055	0					0.53
20.083	0.00	0.01	0.055	0					0.53
20.167	0.00	0.01	0.055	0					0.52
20.250	0.00	0.01	0.055	0					0.52
20.333	0.00	0.01	0.055	0					0.52
20.417	0.00	0.01	0.055	0					0.52
20.500	0.00	0.01	0.055	0					0.52
20.583	0.00	0.01	0.055	0					0.52
20.667	0.00	0.01	0.055	0					0.52
20.750	0.00	0.01	0.054	0					0.52
20.833	0.00	0.01	0.054	0					0.52
20.917	0.00	0.01	0.054	0					0.52
21.000	0.00	0.01	0.054	0					0.52
21.083	0.00	0.01	0.054	0					0.52
21.167	0.00	0.01	0.054	0					0.52
21.250	0.00	0.01	0.054	0					0.52
21.333	0.00	0.01	0.054	0					0.52
21.417	0.00	0.01	0.054	0					0.52
21.500	0.00	0.01	0.054	0					0.52
21.583	0.00	0.01	0.054	0					0.52
21.667	0.00	0.01	0.054	0					0.52
21.750	0.00	0.01	0.054	0					0.52
21.833	0.00	0.01	0.054	0					0.52
21.917	0.00	0.01	0.054	0					0.52
22.000	0.00	0.01	0.054	0					0.51
22.083	0.00	0.01	0.054	0					0.51
22.167	0.00	0.01	0.054	0					0.51
22.250	0.00	0.01	0.054	0					0.51
22.333	0.00	0.01	0.054	0					0.51
22.417	0.00	0.01	0.054	0					0.51
22.500	0.00	0.01	0.054	0					0.51
22.583	0.00	0.00	0.053	0					0.51
22.667	0.00	0.00	0.053	0					0.51
22.750	0.00	0.00	0.053	0					0.51

22.833	0.00	0.00	0.053	0					0.51
22.917	0.00	0.00	0.053	0					0.51
23.000	0.00	0.00	0.053	0					0.51
23.083	0.00	0.00	0.053	0					0.51
23.167	0.00	0.00	0.053	0					0.51
23.250	0.00	0.00	0.053	0					0.51
23.333	0.00	0.00	0.053	0					0.51
23.417	0.00	0.00	0.053	0					0.51
23.500	0.00	0.00	0.053	0					0.51
23.583	0.00	0.00	0.053	0					0.51
23.667	0.00	0.00	0.053	0					0.51
23.750	0.00	0.00	0.053	0					0.51
23.833	0.00	0.00	0.053	0					0.51
23.917	0.00	0.00	0.053	0					0.51
24.000	0.00	0.00	0.053	0					0.51
24.083	0.00	0.00	0.053	0					0.51
24.167	0.00	0.00	0.053	0					0.51
24.250	0.00	0.00	0.053	0					0.51
24.333	0.00	0.00	0.053	0					0.51
24.417	0.00	0.00	0.053	0					0.51
24.500	0.00	0.00	0.053	0					0.51
24.583	0.00	0.00	0.053	0					0.51
24.667	0.00	0.00	0.053	0					0.51
24.750	0.00	0.00	0.053	0					0.51
24.833	0.00	0.00	0.053	0					0.51
24.917	0.00	0.00	0.053	0					0.51
25.000	0.00	0.00	0.053	0					0.51
25.083	0.00	0.00	0.053	0					0.51
25.167	0.00	0.00	0.053	0					0.51
25.250	0.00	0.00	0.053	0					0.51
25.333	0.00	0.00	0.053	0					0.51
25.417	0.00	0.00	0.053	0					0.51
25.500	0.00	0.00	0.053	0					0.51
25.583	0.00	0.00	0.053	0					0.51
25.667	0.00	0.00	0.053	0					0.51
25.750	0.00	0.00	0.053	0					0.51
25.833	0.00	0.00	0.053	0					0.51
25.917	0.00	0.00	0.053	0					0.51
26.000	0.00	0.00	0.053	0					0.50
26.083	0.00	0.00	0.053	0					0.50
26.167	0.00	0.00	0.053	0					0.50
26.250	0.00	0.00	0.053	0					0.50
26.333	0.00	0.00	0.053	0					0.50
26.417	0.00	0.00	0.053	0					0.50
26.500	0.00	0.00	0.053	0					0.50
26.583	0.00	0.00	0.052	0					0.50
26.667	0.00	0.00	0.052	0					0.50
26.750	0.00	0.00	0.052	0					0.50
26.833	0.00	0.00	0.052	0					0.50
26.917	0.00	0.00	0.052	0					0.50

27.000	0.00	0.00	0.052	0					0.50
27.083	0.00	0.00	0.052	0					0.50
27.167	0.00	0.00	0.052	0					0.50
27.250	0.00	0.00	0.052	0					0.50
27.333	0.00	0.00	0.052	0					0.50
27.417	0.00	0.00	0.052	0					0.50
27.500	0.00	0.00	0.052	0					0.50
27.583	0.00	0.00	0.052	0					0.50
27.667	0.00	0.00	0.052	0					0.50
27.750	0.00	0.00	0.052	0					0.50
27.833	0.00	0.00	0.052	0					0.50
27.917	0.00	0.00	0.052	0					0.50
28.000	0.00	0.00	0.052	0					0.50
28.083	0.00	0.00	0.052	0					0.50
28.167	0.00	0.00	0.052	0					0.50
28.250	0.00	0.00	0.052	0					0.50
28.333	0.00	0.00	0.052	0					0.50
28.417	0.00	0.00	0.052	0					0.50
28.500	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 342
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.196 (CFS)
Total volume = 0.181 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 2 100YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH6100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.664 (CFS)
Total volume = 0.309 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.7	1.33	2.00	2.66	Depth (Ft.)
0.083	0.13	0.00	0.000	OI					0.00
0.167	0.21	0.00	0.002	O I					0.02
0.250	0.22	0.00	0.003	O I					0.03
0.333	0.22	0.00	0.005	O I					0.04
0.417	0.22	0.00	0.006	O I					0.06
0.500	0.25	0.00	0.008	O I					0.07
0.583	0.26	0.00	0.010	O I					0.09
0.667	0.26	0.00	0.011	O I					0.11
0.750	0.26	0.00	0.013	O I					0.13
0.833	0.26	0.00	0.015	O I					0.14
0.917	0.26	0.00	0.017	O I					0.16
1.000	0.30	0.00	0.019	O I					0.18
1.083	0.32	0.00	0.021	O I					0.20
1.167	0.32	0.00	0.023	O I					0.22
1.250	0.32	0.00	0.025	O I					0.24
1.333	0.32	0.00	0.027	O I					0.26
1.417	0.32	0.00	0.030	O I					0.28
1.500	0.32	0.00	0.032	O I					0.31
1.583	0.32	0.00	0.034	O I					0.33
1.667	0.32	0.00	0.036	O I					0.35
1.750	0.32	0.00	0.038	O I					0.37
1.833	0.32	0.00	0.040	O I					0.39
1.917	0.32	0.00	0.043	O I					0.41

6.167	0.00	0.20	0.250	I 0					1.99
6.250	0.00	0.20	0.249	I 0					1.98
6.333	0.00	0.20	0.247	I 0					1.97
6.417	0.00	0.20	0.246	I 0					1.97
6.500	0.00	0.20	0.244	I 0					1.96
6.583	0.00	0.20	0.243	I 0					1.95
6.667	0.00	0.20	0.242	I 0					1.94
6.750	0.00	0.20	0.240	I 0					1.93
6.833	0.00	0.20	0.239	I 0					1.92
6.917	0.00	0.20	0.238	I 0					1.91
7.000	0.00	0.20	0.236	I 0					1.90
7.083	0.00	0.20	0.235	I 0					1.89
7.167	0.00	0.20	0.234	I 0					1.88
7.250	0.00	0.20	0.232	I 0					1.87
7.333	0.00	0.20	0.231	I 0					1.86
7.417	0.00	0.20	0.230	I 0					1.86
7.500	0.00	0.20	0.228	I 0					1.85
7.583	0.00	0.20	0.227	I 0					1.84
7.667	0.00	0.20	0.226	I 0					1.83
7.750	0.00	0.20	0.224	I 0					1.82
7.833	0.00	0.20	0.223	I 0					1.81
7.917	0.00	0.20	0.221	I 0					1.80
8.000	0.00	0.20	0.220	I 0					1.79
8.083	0.00	0.20	0.219	I 0					1.78
8.167	0.00	0.20	0.217	I 0					1.77
8.250	0.00	0.20	0.216	I 0					1.76
8.333	0.00	0.20	0.215	I 0					1.75
8.417	0.00	0.20	0.213	I 0					1.75
8.500	0.00	0.20	0.212	I 0					1.74
8.583	0.00	0.20	0.211	I 0					1.73
8.667	0.00	0.20	0.209	I 0					1.72
8.750	0.00	0.20	0.208	I 0					1.71
8.833	0.00	0.20	0.207	I 0					1.70
8.917	0.00	0.20	0.205	I 0					1.69
9.000	0.00	0.20	0.204	I 0					1.68
9.083	0.00	0.20	0.203	I 0					1.67
9.167	0.00	0.20	0.201	I 0					1.66
9.250	0.00	0.20	0.200	I 0					1.65
9.333	0.00	0.20	0.199	I 0					1.65
9.417	0.00	0.20	0.197	I 0					1.64
9.500	0.00	0.20	0.196	I 0					1.63
9.583	0.00	0.20	0.194	I 0					1.62
9.667	0.00	0.20	0.193	I 0					1.61
9.750	0.00	0.20	0.192	I 0					1.60
9.833	0.00	0.20	0.190	I 0					1.59
9.917	0.00	0.20	0.189	I 0					1.58
10.000	0.00	0.20	0.188	I 0					1.57
10.083	0.00	0.20	0.186	I 0					1.56
10.167	0.00	0.20	0.185	I 0					1.55
10.250	0.00	0.20	0.184	I 0					1.54

10.333	0.00	0.20	0.182	I 0					1.54
10.417	0.00	0.20	0.181	I 0					1.53
10.500	0.00	0.20	0.180	I 0					1.52
10.583	0.00	0.20	0.178	I 0					1.51
10.667	0.00	0.20	0.177	I 0					1.50
10.750	0.00	0.20	0.176	I 0					1.49
10.833	0.00	0.20	0.174	I 0					1.48
10.917	0.00	0.20	0.173	I 0					1.47
11.000	0.00	0.20	0.171	I 0					1.46
11.083	0.00	0.20	0.170	I 0					1.45
11.167	0.00	0.20	0.169	I 0					1.44
11.250	0.00	0.20	0.167	I 0					1.43
11.333	0.00	0.20	0.166	I 0					1.42
11.417	0.00	0.20	0.165	I 0					1.41
11.500	0.00	0.20	0.163	I 0					1.40
11.583	0.00	0.20	0.162	I 0					1.39
11.667	0.00	0.20	0.161	I 0					1.38
11.750	0.00	0.20	0.159	I 0					1.37
11.833	0.00	0.20	0.158	I 0					1.36
11.917	0.00	0.20	0.157	I 0					1.35
12.000	0.00	0.20	0.155	I 0					1.34
12.083	0.00	0.20	0.154	I 0					1.32
12.167	0.00	0.20	0.153	I 0					1.31
12.250	0.00	0.20	0.151	I 0					1.30
12.333	0.00	0.20	0.150	I 0					1.29
12.417	0.00	0.20	0.148	I 0					1.28
12.500	0.00	0.20	0.147	I 0					1.27
12.583	0.00	0.20	0.146	I 0					1.26
12.667	0.00	0.20	0.144	I 0					1.25
12.750	0.00	0.20	0.143	I 0					1.24
12.833	0.00	0.20	0.142	I 0					1.23
12.917	0.00	0.20	0.140	I 0					1.22
13.000	0.00	0.20	0.139	I 0					1.21
13.083	0.00	0.20	0.138	I 0					1.20
13.167	0.00	0.20	0.136	I 0					1.19
13.250	0.00	0.20	0.135	I 0					1.18
13.333	0.00	0.20	0.134	I 0					1.17
13.417	0.00	0.20	0.132	I 0					1.16
13.500	0.00	0.20	0.131	I 0					1.15
13.583	0.00	0.20	0.130	I 0					1.14
13.667	0.00	0.20	0.128	I 0					1.13
13.750	0.00	0.20	0.127	I 0					1.12
13.833	0.00	0.20	0.125	I 0					1.11
13.917	0.00	0.20	0.124	I 0					1.10
14.000	0.00	0.20	0.123	I 0					1.09
14.083	0.00	0.20	0.121	I 0					1.08
14.167	0.00	0.20	0.120	I 0					1.07
14.250	0.00	0.20	0.119	I 0					1.06
14.333	0.00	0.20	0.117	I 0					1.05
14.417	0.00	0.20	0.116	I 0					1.04

14.500	0.00	0.20	0.115	I 0					1.03
14.583	0.00	0.20	0.113	I 0					1.02
14.667	0.00	0.20	0.112	I 0					1.01
14.750	0.00	0.20	0.111	I 0					1.00
14.833	0.00	0.19	0.109	I 0					0.99
14.917	0.00	0.19	0.108	I 0					0.97
15.000	0.00	0.18	0.107	I 0					0.96
15.083	0.00	0.18	0.105	I 0					0.95
15.167	0.00	0.17	0.104	I 0					0.94
15.250	0.00	0.17	0.103	I 0					0.93
15.333	0.00	0.17	0.102	IO					0.92
15.417	0.00	0.16	0.101	IO					0.91
15.500	0.00	0.16	0.100	IO					0.90
15.583	0.00	0.16	0.099	IO					0.89
15.667	0.00	0.15	0.098	IO					0.89
15.750	0.00	0.15	0.097	IO					0.88
15.833	0.00	0.14	0.096	IO					0.87
15.917	0.00	0.14	0.095	IO					0.86
16.000	0.00	0.14	0.094	IO					0.85
16.083	0.00	0.14	0.093	IO					0.84
16.167	0.00	0.13	0.092	IO					0.84
16.250	0.00	0.13	0.091	IO					0.83
16.333	0.00	0.13	0.090	IO					0.82
16.417	0.00	0.12	0.089	IO					0.81
16.500	0.00	0.12	0.088	IO					0.81
16.583	0.00	0.12	0.087	IO					0.80
16.667	0.00	0.12	0.087	IO					0.79
16.750	0.00	0.11	0.086	IO					0.79
16.833	0.00	0.11	0.085	IO					0.78
16.917	0.00	0.11	0.084	IO					0.77
17.000	0.00	0.11	0.084	IO					0.77
17.083	0.00	0.10	0.083	IO					0.76
17.167	0.00	0.10	0.082	IO					0.76
17.250	0.00	0.10	0.081	IO					0.75
17.333	0.00	0.10	0.081	IO					0.74
17.417	0.00	0.09	0.080	IO					0.74
17.500	0.00	0.09	0.080	IO					0.73
17.583	0.00	0.09	0.079	IO					0.73
17.667	0.00	0.09	0.078	IO					0.72
17.750	0.00	0.09	0.078	IO					0.72
17.833	0.00	0.08	0.077	IO					0.71
17.917	0.00	0.08	0.077	0					0.71
18.000	0.00	0.08	0.076	0					0.70
18.083	0.00	0.08	0.075	0					0.70
18.167	0.00	0.08	0.075	0					0.69
18.250	0.00	0.07	0.074	0					0.69
18.333	0.00	0.07	0.074	0					0.69
18.417	0.00	0.07	0.073	0					0.68
18.500	0.00	0.07	0.073	0					0.68
18.583	0.00	0.07	0.072	0					0.67

18.667	0.00	0.07	0.072	0				0.67
18.750	0.00	0.06	0.072	0				0.67
18.833	0.00	0.06	0.071	0				0.66
18.917	0.00	0.06	0.071	0				0.66
19.000	0.00	0.06	0.070	0				0.65
19.083	0.00	0.06	0.070	0				0.65
19.167	0.00	0.06	0.069	0				0.65
19.250	0.00	0.06	0.069	0				0.64
19.333	0.00	0.06	0.069	0				0.64
19.417	0.00	0.05	0.068	0				0.64
19.500	0.00	0.05	0.068	0				0.63
19.583	0.00	0.05	0.068	0				0.63
19.667	0.00	0.05	0.067	0				0.63
19.750	0.00	0.05	0.067	0				0.63
19.833	0.00	0.05	0.066	0				0.62
19.917	0.00	0.05	0.066	0				0.62
20.000	0.00	0.05	0.066	0				0.62
20.083	0.00	0.04	0.066	0				0.61
20.167	0.00	0.04	0.065	0				0.61
20.250	0.00	0.04	0.065	0				0.61
20.333	0.00	0.04	0.065	0				0.61
20.417	0.00	0.04	0.064	0				0.60
20.500	0.00	0.04	0.064	0				0.60
20.583	0.00	0.04	0.064	0				0.60
20.667	0.00	0.04	0.064	0				0.60
20.750	0.00	0.04	0.063	0				0.60
20.833	0.00	0.04	0.063	0				0.59
20.917	0.00	0.04	0.063	0				0.59
21.000	0.00	0.03	0.063	0				0.59
21.083	0.00	0.03	0.062	0				0.59
21.167	0.00	0.03	0.062	0				0.59
21.250	0.00	0.03	0.062	0				0.58
21.333	0.00	0.03	0.062	0				0.58
21.417	0.00	0.03	0.061	0				0.58
21.500	0.00	0.03	0.061	0				0.58
21.583	0.00	0.03	0.061	0				0.58
21.667	0.00	0.03	0.061	0				0.57
21.750	0.00	0.03	0.061	0				0.57
21.833	0.00	0.03	0.060	0				0.57
21.917	0.00	0.03	0.060	0				0.57
22.000	0.00	0.03	0.060	0				0.57
22.083	0.00	0.03	0.060	0				0.57
22.167	0.00	0.03	0.060	0				0.56
22.250	0.00	0.02	0.059	0				0.56
22.333	0.00	0.02	0.059	0				0.56
22.417	0.00	0.02	0.059	0				0.56
22.500	0.00	0.02	0.059	0				0.56
22.583	0.00	0.02	0.059	0				0.56
22.667	0.00	0.02	0.059	0				0.56
22.750	0.00	0.02	0.058	0				0.56

22.833	0.00	0.02	0.058	0					0.55
22.917	0.00	0.02	0.058	0					0.55
23.000	0.00	0.02	0.058	0					0.55
23.083	0.00	0.02	0.058	0					0.55
23.167	0.00	0.02	0.058	0					0.55
23.250	0.00	0.02	0.058	0					0.55
23.333	0.00	0.02	0.058	0					0.55
23.417	0.00	0.02	0.057	0					0.55
23.500	0.00	0.02	0.057	0					0.54
23.583	0.00	0.02	0.057	0					0.54
23.667	0.00	0.02	0.057	0					0.54
23.750	0.00	0.02	0.057	0					0.54
23.833	0.00	0.02	0.057	0					0.54
23.917	0.00	0.02	0.057	0					0.54
24.000	0.00	0.02	0.057	0					0.54
24.083	0.00	0.01	0.056	0					0.54
24.167	0.00	0.01	0.056	0					0.54
24.250	0.00	0.01	0.056	0					0.54
24.333	0.00	0.01	0.056	0					0.54
24.417	0.00	0.01	0.056	0					0.53
24.500	0.00	0.01	0.056	0					0.53
24.583	0.00	0.01	0.056	0					0.53
24.667	0.00	0.01	0.056	0					0.53
24.750	0.00	0.01	0.056	0					0.53
24.833	0.00	0.01	0.056	0					0.53
24.917	0.00	0.01	0.056	0					0.53
25.000	0.00	0.01	0.055	0					0.53
25.083	0.00	0.01	0.055	0					0.53
25.167	0.00	0.01	0.055	0					0.53
25.250	0.00	0.01	0.055	0					0.53
25.333	0.00	0.01	0.055	0					0.53
25.417	0.00	0.01	0.055	0					0.53
25.500	0.00	0.01	0.055	0					0.53
25.583	0.00	0.01	0.055	0					0.53
25.667	0.00	0.01	0.055	0					0.52
25.750	0.00	0.01	0.055	0					0.52
25.833	0.00	0.01	0.055	0					0.52
25.917	0.00	0.01	0.055	0					0.52
26.000	0.00	0.01	0.055	0					0.52
26.083	0.00	0.01	0.055	0					0.52
26.167	0.00	0.01	0.055	0					0.52
26.250	0.00	0.01	0.054	0					0.52
26.333	0.00	0.01	0.054	0					0.52
26.417	0.00	0.01	0.054	0					0.52
26.500	0.00	0.01	0.054	0					0.52
26.583	0.00	0.01	0.054	0					0.52
26.667	0.00	0.01	0.054	0					0.52
26.750	0.00	0.01	0.054	0					0.52
26.833	0.00	0.01	0.054	0					0.52
26.917	0.00	0.01	0.054	0					0.52

27.000	0.00	0.01	0.054	0					0.52
27.083	0.00	0.01	0.054	0					0.52
27.167	0.00	0.01	0.054	0					0.52
27.250	0.00	0.01	0.054	0					0.52
27.333	0.00	0.01	0.054	0					0.52
27.417	0.00	0.01	0.054	0					0.52
27.500	0.00	0.01	0.054	0					0.51
27.583	0.00	0.01	0.054	0					0.51
27.667	0.00	0.01	0.054	0					0.51
27.750	0.00	0.01	0.054	0					0.51
27.833	0.00	0.01	0.054	0					0.51
27.917	0.00	0.01	0.054	0					0.51
28.000	0.00	0.01	0.054	0					0.51
28.083	0.00	0.00	0.053	0					0.51
28.167	0.00	0.00	0.053	0					0.51
28.250	0.00	0.00	0.053	0					0.51
28.333	0.00	0.00	0.053	0					0.51
28.417	0.00	0.00	0.053	0					0.51
28.500	0.00	0.00	0.053	0					0.51
28.583	0.00	0.00	0.053	0					0.51
28.667	0.00	0.00	0.053	0					0.51
28.750	0.00	0.00	0.053	0					0.51
28.833	0.00	0.00	0.053	0					0.51
28.917	0.00	0.00	0.053	0					0.51
29.000	0.00	0.00	0.053	0					0.51
29.083	0.00	0.00	0.053	0					0.51
29.167	0.00	0.00	0.053	0					0.51
29.250	0.00	0.00	0.053	0					0.51
29.333	0.00	0.00	0.053	0					0.51
29.417	0.00	0.00	0.053	0					0.51
29.500	0.00	0.00	0.053	0					0.51
29.583	0.00	0.00	0.053	0					0.51
29.667	0.00	0.00	0.053	0					0.51
29.750	0.00	0.00	0.053	0					0.51
29.833	0.00	0.00	0.053	0					0.51
29.917	0.00	0.00	0.053	0					0.51
30.000	0.00	0.00	0.053	0					0.51
30.083	0.00	0.00	0.053	0					0.51
30.167	0.00	0.00	0.053	0					0.51
30.250	0.00	0.00	0.053	0					0.51
30.333	0.00	0.00	0.053	0					0.51
30.417	0.00	0.00	0.053	0					0.51
30.500	0.00	0.00	0.053	0					0.51
30.583	0.00	0.00	0.053	0					0.51
30.667	0.00	0.00	0.053	0					0.51
30.750	0.00	0.00	0.053	0					0.51
30.833	0.00	0.00	0.053	0					0.51
30.917	0.00	0.00	0.053	0					0.51
31.000	0.00	0.00	0.053	0					0.51
31.083	0.00	0.00	0.053	0					0.51

31.167	0.00	0.00	0.053	0					0.51
31.250	0.00	0.00	0.053	0					0.51
31.333	0.00	0.00	0.053	0					0.51
31.417	0.00	0.00	0.053	0					0.51
31.500	0.00	0.00	0.053	0					0.50
31.583	0.00	0.00	0.053	0					0.50
31.667	0.00	0.00	0.053	0					0.50
31.750	0.00	0.00	0.053	0					0.50
31.833	0.00	0.00	0.053	0					0.50
31.917	0.00	0.00	0.053	0					0.50
32.000	0.00	0.00	0.053	0					0.50
32.083	0.00	0.00	0.052	0					0.50
32.167	0.00	0.00	0.052	0					0.50
32.250	0.00	0.00	0.052	0					0.50
32.333	0.00	0.00	0.052	0					0.50
32.417	0.00	0.00	0.052	0					0.50
32.500	0.00	0.00	0.052	0					0.50
32.583	0.00	0.00	0.052	0					0.50
32.667	0.00	0.00	0.052	0					0.50
32.750	0.00	0.00	0.052	0					0.50
32.833	0.00	0.00	0.052	0					0.50
32.917	0.00	0.00	0.052	0					0.50
33.000	0.00	0.00	0.052	0					0.50
33.083	0.00	0.00	0.052	0					0.50
33.167	0.00	0.00	0.052	0					0.50
33.250	0.00	0.00	0.052	0					0.50
33.333	0.00	0.00	0.052	0					0.50
33.417	0.00	0.00	0.052	0					0.50
33.500	0.00	0.00	0.052	0					0.50
33.583	0.00	0.00	0.052	0					0.50
33.667	0.00	0.00	0.052	0					0.50
33.750	0.00	0.00	0.052	0					0.50
33.833	0.00	0.00	0.052	0					0.50
33.917	0.00	0.00	0.052	0					0.50
34.000	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 408
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.627 (CFS)
Total volume = 0.256 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 2 100YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA2Q100UH24100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.957 (CFS)
Total volume = 0.516 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289

Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.052	0.000	0.052	0.052
1.000	0.111	0.196	0.110	0.112
1.500	0.177	0.196	0.176	0.178
2.000	0.251	0.196	0.250	0.252
2.500	0.333	4.639	0.317	0.349

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.2	0.48	0.72	0.96	Depth (Ft.)
0.083	0.03	0.00	0.000	OI					0.00
0.167	0.04	0.00	0.000	OI					0.00
0.250	0.04	0.00	0.001	OI					0.01
0.333	0.06	0.00	0.001	OI					0.01
0.417	0.07	0.00	0.001	O I					0.01
0.500	0.07	0.00	0.002	O I					0.02
0.583	0.07	0.00	0.002	O I					0.02
0.667	0.07	0.00	0.003	O I					0.03
0.750	0.07	0.00	0.003	O I					0.03
0.833	0.08	0.00	0.004	O I					0.04
0.917	0.09	0.00	0.004	O I					0.04
1.000	0.09	0.00	0.005	O I					0.05
1.083	0.07	0.00	0.005	O I					0.05
1.167	0.07	0.00	0.006	O I					0.06
1.250	0.07	0.00	0.006	O I					0.06
1.333	0.07	0.00	0.007	O I					0.07
1.417	0.07	0.00	0.007	O I					0.07
1.500	0.07	0.00	0.008	O I					0.07
1.583	0.07	0.00	0.008	O I					0.08
1.667	0.07	0.00	0.009	O I					0.08
1.750	0.07	0.00	0.009	O I					0.09
1.833	0.08	0.00	0.010	O I					0.09
1.917	0.09	0.00	0.010	O I					0.10

2.000	0.09	0.00	0.011	0	I					0.10
2.083	0.09	0.00	0.011	0	I					0.11
2.167	0.09	0.00	0.012	0	I					0.11
2.250	0.09	0.00	0.013	0	I					0.12
2.333	0.09	0.00	0.013	0	I					0.13
2.417	0.09	0.00	0.014	0	I					0.13
2.500	0.09	0.00	0.014	0	I					0.14
2.583	0.10	0.00	0.015	0	I					0.14
2.667	0.11	0.00	0.016	0	I					0.15
2.750	0.11	0.00	0.016	0	I					0.16
2.833	0.11	0.00	0.017	0	I					0.17
2.917	0.11	0.00	0.018	0	I					0.17
3.000	0.11	0.00	0.019	0	I					0.18
3.083	0.11	0.00	0.019	0	I					0.19
3.167	0.11	0.00	0.020	0	I					0.19
3.250	0.11	0.00	0.021	0	I					0.20
3.333	0.11	0.00	0.022	0	I					0.21
3.417	0.11	0.00	0.022	0	I					0.22
3.500	0.11	0.00	0.023	0	I					0.22
3.583	0.11	0.00	0.024	0	I					0.23
3.667	0.11	0.00	0.025	0	I					0.24
3.750	0.11	0.00	0.025	0	I					0.24
3.833	0.12	0.00	0.026	0	I					0.25
3.917	0.13	0.00	0.027	0	I					0.26
4.000	0.13	0.00	0.028	0	I					0.27
4.083	0.13	0.00	0.029	0	I					0.28
4.167	0.13	0.00	0.030	0	I					0.29
4.250	0.13	0.00	0.031	0	I					0.29
4.333	0.15	0.00	0.032	0	I					0.30
4.417	0.15	0.00	0.033	0	I					0.31
4.500	0.15	0.00	0.034	0	I					0.32
4.583	0.15	0.00	0.035	0	I					0.33
4.667	0.15	0.00	0.036	0	I					0.34
4.750	0.15	0.00	0.037	0	I					0.35
4.833	0.17	0.00	0.038	0	I					0.36
4.917	0.17	0.00	0.039	0	I					0.38
5.000	0.17	0.00	0.040	0	I					0.39
5.083	0.14	0.00	0.041	0	I					0.40
5.167	0.13	0.00	0.042	0	I					0.41
5.250	0.13	0.00	0.043	0	I					0.42
5.333	0.15	0.00	0.044	0	I					0.42
5.417	0.15	0.00	0.045	0	I					0.43
5.500	0.15	0.00	0.046	0	I					0.44
5.583	0.17	0.00	0.047	0	I					0.46
5.667	0.17	0.00	0.049	0	I					0.47
5.750	0.17	0.00	0.050	0	I					0.48
5.833	0.17	0.00	0.051	0	I					0.49
5.917	0.17	0.00	0.052	0	I					0.50
6.000	0.17	0.00	0.053	0	I					0.51
6.083	0.19	0.01	0.054	0	I					0.52

6.167	0.20	0.01	0.056	0	I					0.53
6.250	0.20	0.02	0.057	0	I					0.54
6.333	0.20	0.02	0.058	0	I					0.55
6.417	0.20	0.02	0.059	0	I					0.56
6.500	0.20	0.03	0.061	0	I					0.57
6.583	0.21	0.03	0.062	0	I					0.58
6.667	0.22	0.04	0.063	0	I					0.59
6.750	0.22	0.04	0.064	0	I					0.60
6.833	0.22	0.04	0.065	0	I					0.61
6.917	0.22	0.05	0.067	0	I					0.62
7.000	0.22	0.05	0.068	0	I					0.63
7.083	0.22	0.06	0.069	0	I					0.64
7.167	0.22	0.06	0.070	0	I					0.65
7.250	0.22	0.06	0.071	0	I					0.66
7.333	0.23	0.07	0.072	0	I					0.67
7.417	0.24	0.07	0.073	0	I					0.68
7.500	0.24	0.07	0.074	0	I					0.69
7.583	0.25	0.08	0.076	0	I					0.70
7.667	0.26	0.08	0.077	0	I					0.71
7.750	0.26	0.09	0.078	0	I					0.72
7.833	0.28	0.09	0.079	0	I					0.73
7.917	0.28	0.09	0.081	0	I					0.74
8.000	0.28	0.10	0.082	0	I					0.75
8.083	0.33	0.10	0.083	0	I					0.76
8.167	0.34	0.11	0.085	0	I					0.78
8.250	0.35	0.11	0.086	0	I					0.79
8.333	0.35	0.12	0.088	0	I					0.80
8.417	0.35	0.12	0.089	0	I					0.82
8.500	0.35	0.13	0.091	0	I					0.83
8.583	0.37	0.13	0.093	0	I					0.84
8.667	0.38	0.14	0.094	0	I					0.86
8.750	0.38	0.15	0.096	0	I					0.87
8.833	0.40	0.15	0.097	0	I					0.89
8.917	0.41	0.16	0.099	0	I					0.90
9.000	0.41	0.16	0.101	0	I					0.91
9.083	0.46	0.17	0.103	0	I					0.93
9.167	0.47	0.18	0.105	0	I					0.95
9.250	0.47	0.18	0.107	0	I					0.96
9.333	0.50	0.19	0.109	0	I					0.98
9.417	0.51	0.20	0.111	0	I					1.00
9.500	0.51	0.20	0.113	0	I					1.02
9.583	0.53	0.20	0.115	0	I					1.03
9.667	0.54	0.20	0.118	0	I					1.05
9.750	0.54	0.20	0.120	0	I					1.07
9.833	0.56	0.20	0.122	0	I					1.09
9.917	0.57	0.20	0.125	0	I					1.11
10.000	0.57	0.20	0.128	0	I					1.13
10.083	0.42	0.20	0.130	0	I					1.14
10.167	0.36	0.20	0.131	0	I					1.15
10.250	0.36	0.20	0.132	0	I					1.16

10.333	0.36	0.20	0.133	0	I				1.17
10.417	0.36	0.20	0.134	0	I				1.18
10.500	0.36	0.20	0.135	0	I				1.18
10.583	0.47	0.20	0.137	0		I			1.20
10.667	0.51	0.20	0.139	0			I		1.21
10.750	0.51	0.20	0.141	0				I	1.23
10.833	0.51	0.20	0.143	0					1.24
10.917	0.51	0.20	0.145	0					1.26
11.000	0.51	0.20	0.148	0					1.28
11.083	0.49	0.20	0.150	0					1.29
11.167	0.49	0.20	0.152	0					1.31
11.250	0.49	0.20	0.154	0					1.32
11.333	0.49	0.20	0.156	0					1.34
11.417	0.49	0.20	0.158	0					1.35
11.500	0.49	0.20	0.160	0					1.37
11.583	0.44	0.20	0.162	0					1.38
11.667	0.43	0.20	0.163	0					1.40
11.750	0.43	0.20	0.165	0					1.41
11.833	0.45	0.20	0.166	0					1.42
11.917	0.46	0.20	0.168	0					1.43
12.000	0.46	0.20	0.170	0					1.45
12.083	0.61	0.20	0.172	0					1.47
12.167	0.67	0.20	0.175	0					1.49
12.250	0.67	0.20	0.179	0					1.51
12.333	0.70	0.20	0.182	0					1.53
12.417	0.71	0.20	0.186	0					1.56
12.500	0.71	0.20	0.189	0					1.58
12.583	0.75	0.20	0.193	0					1.61
12.667	0.77	0.20	0.197	0					1.63
12.750	0.77	0.20	0.201	0					1.66
12.833	0.79	0.20	0.205	0					1.69
12.917	0.80	0.20	0.209	0					1.71
13.000	0.80	0.20	0.213	0					1.74
13.083	0.91	0.20	0.218	0					1.77
13.167	0.95	0.20	0.223	0					1.81
13.250	0.96	0.20	0.228	0					1.84
13.333	0.96	0.20	0.233	0					1.88
13.417	0.96	0.20	0.238	0					1.91
13.500	0.96	0.20	0.244	0					1.95
13.583	0.71	0.20	0.248	0					1.98
13.667	0.62	0.20	0.251	0					2.00
13.750	0.62	0.33	0.254	0	0				2.02
13.833	0.62	0.42	0.255	0	0				2.03
13.917	0.62	0.49	0.256	0	0				2.03
14.000	0.62	0.53	0.257	0	0				2.04
14.083	0.71	0.57	0.258	0	0				2.04
14.167	0.75	0.62	0.259	0	0				2.05
14.250	0.75	0.66	0.260	0	0				2.05
14.333	0.72	0.68	0.260	0	0				2.05
14.417	0.72	0.70	0.260	0	0				2.06

14.500	0.72	0.70	0.260				0	2.06
14.583	0.72	0.71	0.260				0	2.06
14.667	0.72	0.71	0.260				0I	2.06
14.750	0.72	0.71	0.261				0I	2.06
14.833	0.70	0.71	0.260				0	2.06
14.917	0.69	0.71	0.260				0	2.06
15.000	0.69	0.70	0.260				0	2.06
15.083	0.67	0.69	0.260				IO	2.06
15.167	0.66	0.68	0.260				0	2.05
15.250	0.66	0.68	0.260				0	2.05
15.333	0.64	0.67	0.260				IO	2.05
15.417	0.63	0.66	0.259				0	2.05
15.500	0.63	0.65	0.259				0	2.05
15.583	0.54	0.63	0.259				I 0	2.05
15.667	0.51	0.60	0.258				I 0	2.04
15.750	0.51	0.57	0.258				I 0	2.04
15.833	0.51	0.55	0.258				IO	2.04
15.917	0.51	0.54	0.257				0	2.04
16.000	0.51	0.53	0.257				0	2.04
16.083	0.20	0.47	0.256		I		0	2.03
16.167	0.09	0.37	0.254	I		0		2.02
16.250	0.09	0.28	0.253	I		0		2.01
16.333	0.09	0.22	0.251	I		0		2.00
16.417	0.09	0.20	0.251	I		0		2.00
16.500	0.09	0.20	0.250	I		0		1.99
16.583	0.07	0.20	0.249	I		0		1.99
16.667	0.07	0.20	0.248	I		0		1.98
16.750	0.07	0.20	0.247	I		0		1.97
16.833	0.07	0.20	0.246	I		0		1.97
16.917	0.07	0.20	0.245	I		0		1.96
17.000	0.07	0.20	0.245	I		0		1.96
17.083	0.10	0.20	0.244	I		0		1.95
17.167	0.11	0.20	0.243	I		0		1.95
17.250	0.11	0.20	0.242	I		0		1.94
17.333	0.11	0.20	0.242	I		0		1.94
17.417	0.11	0.20	0.241	I		0		1.93
17.500	0.11	0.20	0.241	I		0		1.93
17.583	0.11	0.20	0.240	I		0		1.93
17.667	0.11	0.20	0.239	I		0		1.92
17.750	0.11	0.20	0.239	I		0		1.92
17.833	0.09	0.20	0.238	I		0		1.91
17.917	0.09	0.20	0.237	I		0		1.91
18.000	0.09	0.20	0.237	I		0		1.90
18.083	0.09	0.20	0.236	I		0		1.90
18.167	0.09	0.20	0.235	I		0		1.89
18.250	0.09	0.20	0.234	I		0		1.89
18.333	0.09	0.20	0.234	I		0		1.88
18.417	0.09	0.20	0.233	I		0		1.88
18.500	0.09	0.20	0.232	I		0		1.87
18.583	0.07	0.20	0.231	I		0		1.87

18.667	0.07	0.20	0.230	I	0					1.86
18.750	0.07	0.20	0.230	I	0					1.86
18.833	0.05	0.20	0.229	I	0					1.85
18.917	0.04	0.20	0.228	I	0					1.84
19.000	0.04	0.20	0.227	I	0					1.83
19.083	0.06	0.20	0.226	I	0					1.83
19.167	0.07	0.20	0.225	I	0					1.82
19.250	0.07	0.20	0.224	I	0					1.82
19.333	0.08	0.20	0.223	I	0					1.81
19.417	0.09	0.20	0.222	I	0					1.80
19.500	0.09	0.20	0.221	I	0					1.80
19.583	0.07	0.20	0.221	I	0					1.79
19.667	0.07	0.20	0.220	I	0					1.79
19.750	0.07	0.20	0.219	I	0					1.78
19.833	0.05	0.20	0.218	I	0					1.78
19.917	0.04	0.20	0.217	I	0					1.77
20.000	0.04	0.20	0.216	I	0					1.76
20.083	0.06	0.20	0.215	I	0					1.75
20.167	0.07	0.20	0.214	I	0					1.75
20.250	0.07	0.20	0.213	I	0					1.74
20.333	0.07	0.20	0.212	I	0					1.74
20.417	0.07	0.20	0.211	I	0					1.73
20.500	0.07	0.20	0.210	I	0					1.72
20.583	0.07	0.20	0.209	I	0					1.72
20.667	0.07	0.20	0.208	I	0					1.71
20.750	0.07	0.20	0.207	I	0					1.71
20.833	0.05	0.20	0.206	I	0					1.70
20.917	0.04	0.20	0.205	I	0					1.69
21.000	0.04	0.20	0.204	I	0					1.69
21.083	0.06	0.20	0.203	I	0					1.68
21.167	0.07	0.20	0.202	I	0					1.67
21.250	0.07	0.20	0.202	I	0					1.67
21.333	0.05	0.20	0.201	I	0					1.66
21.417	0.04	0.20	0.200	I	0					1.65
21.500	0.04	0.20	0.199	I	0					1.65
21.583	0.06	0.20	0.198	I	0					1.64
21.667	0.07	0.20	0.197	I	0					1.63
21.750	0.07	0.20	0.196	I	0					1.63
21.833	0.05	0.20	0.195	I	0					1.62
21.917	0.04	0.20	0.194	I	0					1.61
22.000	0.04	0.20	0.193	I	0					1.61
22.083	0.06	0.20	0.192	I	0					1.60
22.167	0.07	0.20	0.191	I	0					1.59
22.250	0.07	0.20	0.190	I	0					1.59
22.333	0.05	0.20	0.189	I	0					1.58
22.417	0.04	0.20	0.188	I	0					1.57
22.500	0.04	0.20	0.187	I	0					1.57
22.583	0.04	0.20	0.186	I	0					1.56
22.667	0.04	0.20	0.185	I	0					1.55
22.750	0.04	0.20	0.184	I	0					1.54

22.833	0.04	0.20	0.183	I	0					1.54
22.917	0.04	0.20	0.182	I	0					1.53
23.000	0.04	0.20	0.180	I	0					1.52
23.083	0.04	0.20	0.179	I	0					1.52
23.167	0.04	0.20	0.178	I	0					1.51
23.250	0.04	0.20	0.177	I	0					1.50
23.333	0.04	0.20	0.176	I	0					1.49
23.417	0.04	0.20	0.175	I	0					1.49
23.500	0.04	0.20	0.174	I	0					1.48
23.583	0.04	0.20	0.173	I	0					1.47
23.667	0.04	0.20	0.172	I	0					1.46
23.750	0.04	0.20	0.171	I	0					1.45
23.833	0.04	0.20	0.170	I	0					1.45
23.917	0.04	0.20	0.169	I	0					1.44
24.000	0.04	0.20	0.168	I	0					1.43
24.083	0.01	0.20	0.167	I	0					1.42
24.167	0.00	0.20	0.165	I	0					1.41
24.250	0.00	0.20	0.164	I	0					1.40
24.333	0.00	0.20	0.163	I	0					1.39
24.417	0.00	0.20	0.161	I	0					1.38
24.500	0.00	0.20	0.160	I	0					1.37
24.583	0.00	0.20	0.159	I	0					1.36
24.667	0.00	0.20	0.157	I	0					1.35
24.750	0.00	0.20	0.156	I	0					1.34
24.833	0.00	0.20	0.155	I	0					1.33
24.917	0.00	0.20	0.153	I	0					1.32
25.000	0.00	0.20	0.152	I	0					1.31
25.083	0.00	0.20	0.150	I	0					1.30
25.167	0.00	0.20	0.149	I	0					1.29
25.250	0.00	0.20	0.148	I	0					1.28
25.333	0.00	0.20	0.146	I	0					1.27
25.417	0.00	0.20	0.145	I	0					1.26
25.500	0.00	0.20	0.144	I	0					1.25
25.583	0.00	0.20	0.142	I	0					1.24
25.667	0.00	0.20	0.141	I	0					1.23
25.750	0.00	0.20	0.140	I	0					1.22
25.833	0.00	0.20	0.138	I	0					1.21
25.917	0.00	0.20	0.137	I	0					1.20
26.000	0.00	0.20	0.136	I	0					1.19
26.083	0.00	0.20	0.134	I	0					1.18
26.167	0.00	0.20	0.133	I	0					1.17
26.250	0.00	0.20	0.132	I	0					1.16
26.333	0.00	0.20	0.130	I	0					1.15
26.417	0.00	0.20	0.129	I	0					1.14
26.500	0.00	0.20	0.127	I	0					1.12
26.583	0.00	0.20	0.126	I	0					1.11
26.667	0.00	0.20	0.125	I	0					1.10
26.750	0.00	0.20	0.123	I	0					1.09
26.833	0.00	0.20	0.122	I	0					1.08
26.917	0.00	0.20	0.121	I	0					1.07

27.000	0.00	0.20	0.119	I	0					1.06
27.083	0.00	0.20	0.118	I	0					1.05
27.167	0.00	0.20	0.117	I	0					1.04
27.250	0.00	0.20	0.115	I	0					1.03
27.333	0.00	0.20	0.114	I	0					1.02
27.417	0.00	0.20	0.113	I	0					1.01
27.500	0.00	0.20	0.111	I	0					1.00
27.583	0.00	0.19	0.110	I	0					0.99
27.667	0.00	0.19	0.109	I	0					0.98
27.750	0.00	0.18	0.107	I	0					0.97
27.833	0.00	0.18	0.106	I	0					0.96
27.917	0.00	0.18	0.105	I	0					0.95
28.000	0.00	0.17	0.104	I	0					0.94
28.083	0.00	0.17	0.102	I	0					0.93
28.167	0.00	0.16	0.101	I	0					0.92
28.250	0.00	0.16	0.100	I	0					0.91
28.333	0.00	0.16	0.099	I	0					0.90
28.417	0.00	0.15	0.098	I	0					0.89
28.500	0.00	0.15	0.097	I	0					0.88
28.583	0.00	0.15	0.096	I	0					0.87
28.667	0.00	0.14	0.095	I	0					0.86
28.750	0.00	0.14	0.094	I	0					0.86
28.833	0.00	0.14	0.093	I	0					0.85
28.917	0.00	0.13	0.092	I	0					0.84
29.000	0.00	0.13	0.091	I	0					0.83
29.083	0.00	0.13	0.090	I	0					0.82
29.167	0.00	0.12	0.089	I	0					0.82
29.250	0.00	0.12	0.089	I	0					0.81
29.333	0.00	0.12	0.088	I	0					0.80
29.417	0.00	0.12	0.087	I	0					0.80
29.500	0.00	0.11	0.086	I	0					0.79
29.583	0.00	0.11	0.085	I	0					0.78
29.667	0.00	0.11	0.085	I	0					0.78
29.750	0.00	0.11	0.084	I	0					0.77
29.833	0.00	0.10	0.083	I	0					0.76
29.917	0.00	0.10	0.082	I	0					0.76
30.000	0.00	0.10	0.082	I	0					0.75
30.083	0.00	0.10	0.081	I	0					0.75
30.167	0.00	0.09	0.080	I	0					0.74
30.250	0.00	0.09	0.080	I	0					0.74
30.333	0.00	0.09	0.079	I	0					0.73
30.417	0.00	0.09	0.079	I	0					0.73
30.500	0.00	0.09	0.078	I	0					0.72
30.583	0.00	0.08	0.077	I	0					0.72
30.667	0.00	0.08	0.077	I	0					0.71
30.750	0.00	0.08	0.076	I	0					0.71
30.833	0.00	0.08	0.076	I	0					0.70
30.917	0.00	0.08	0.075	I	0					0.70
31.000	0.00	0.08	0.075	I	0					0.69
31.083	0.00	0.07	0.074	I	0					0.69

31.167	0.00	0.07	0.074	I 0					0.68
31.250	0.00	0.07	0.073	I 0					0.68
31.333	0.00	0.07	0.073	I 0					0.67
31.417	0.00	0.07	0.072	I 0					0.67
31.500	0.00	0.07	0.072	I 0					0.67
31.583	0.00	0.06	0.071	I 0					0.66
31.667	0.00	0.06	0.071	I 0					0.66
31.750	0.00	0.06	0.070	I 0					0.66
31.833	0.00	0.06	0.070	I 0					0.65
31.917	0.00	0.06	0.070	IO					0.65
32.000	0.00	0.06	0.069	IO					0.65
32.083	0.00	0.06	0.069	IO					0.64
32.167	0.00	0.05	0.068	IO					0.64
32.250	0.00	0.05	0.068	IO					0.64
32.333	0.00	0.05	0.068	IO					0.63
32.417	0.00	0.05	0.067	IO					0.63
32.500	0.00	0.05	0.067	IO					0.63
32.583	0.00	0.05	0.067	IO					0.62
32.667	0.00	0.05	0.066	IO					0.62
32.750	0.00	0.05	0.066	IO					0.62
32.833	0.00	0.05	0.066	IO					0.62
32.917	0.00	0.04	0.065	IO					0.61
33.000	0.00	0.04	0.065	IO					0.61
33.083	0.00	0.04	0.065	IO					0.61
33.167	0.00	0.04	0.064	IO					0.61
33.250	0.00	0.04	0.064	IO					0.60
33.333	0.00	0.04	0.064	IO					0.60
33.417	0.00	0.04	0.064	IO					0.60
33.500	0.00	0.04	0.063	IO					0.60
33.583	0.00	0.04	0.063	IO					0.59
33.667	0.00	0.04	0.063	IO					0.59
33.750	0.00	0.04	0.063	IO					0.59
33.833	0.00	0.03	0.062	IO					0.59
33.917	0.00	0.03	0.062	IO					0.59
34.000	0.00	0.03	0.062	IO					0.58
34.083	0.00	0.03	0.062	IO					0.58
34.167	0.00	0.03	0.061	IO					0.58
34.250	0.00	0.03	0.061	IO					0.58
34.333	0.00	0.03	0.061	IO					0.58
34.417	0.00	0.03	0.061	0					0.57
34.500	0.00	0.03	0.061	0					0.57
34.583	0.00	0.03	0.060	0					0.57
34.667	0.00	0.03	0.060	0					0.57
34.750	0.00	0.03	0.060	0					0.57
34.833	0.00	0.03	0.060	0					0.57
34.917	0.00	0.03	0.060	0					0.57
35.000	0.00	0.03	0.060	0					0.56
35.083	0.00	0.02	0.059	0					0.56
35.167	0.00	0.02	0.059	0					0.56
35.250	0.00	0.02	0.059	0					0.56

35.333	0.00	0.02	0.059	0					0.56
35.417	0.00	0.02	0.059	0					0.56
35.500	0.00	0.02	0.059	0					0.56
35.583	0.00	0.02	0.058	0					0.55
35.667	0.00	0.02	0.058	0					0.55
35.750	0.00	0.02	0.058	0					0.55
35.833	0.00	0.02	0.058	0					0.55
35.917	0.00	0.02	0.058	0					0.55
36.000	0.00	0.02	0.058	0					0.55
36.083	0.00	0.02	0.058	0					0.55
36.167	0.00	0.02	0.057	0					0.55
36.250	0.00	0.02	0.057	0					0.55
36.333	0.00	0.02	0.057	0					0.54
36.417	0.00	0.02	0.057	0					0.54
36.500	0.00	0.02	0.057	0					0.54
36.583	0.00	0.02	0.057	0					0.54
36.667	0.00	0.02	0.057	0					0.54
36.750	0.00	0.02	0.057	0					0.54
36.833	0.00	0.02	0.057	0					0.54
36.917	0.00	0.01	0.056	0					0.54
37.000	0.00	0.01	0.056	0					0.54
37.083	0.00	0.01	0.056	0					0.54
37.167	0.00	0.01	0.056	0					0.54
37.250	0.00	0.01	0.056	0					0.53
37.333	0.00	0.01	0.056	0					0.53
37.417	0.00	0.01	0.056	0					0.53
37.500	0.00	0.01	0.056	0					0.53
37.583	0.00	0.01	0.056	0					0.53
37.667	0.00	0.01	0.056	0					0.53
37.750	0.00	0.01	0.056	0					0.53
37.833	0.00	0.01	0.055	0					0.53
37.917	0.00	0.01	0.055	0					0.53
38.000	0.00	0.01	0.055	0					0.53
38.083	0.00	0.01	0.055	0					0.53
38.167	0.00	0.01	0.055	0					0.53
38.250	0.00	0.01	0.055	0					0.53
38.333	0.00	0.01	0.055	0					0.53
38.417	0.00	0.01	0.055	0					0.52
38.500	0.00	0.01	0.055	0					0.52
38.583	0.00	0.01	0.055	0					0.52
38.667	0.00	0.01	0.055	0					0.52
38.750	0.00	0.01	0.055	0					0.52
38.833	0.00	0.01	0.055	0					0.52
38.917	0.00	0.01	0.055	0					0.52
39.000	0.00	0.01	0.055	0					0.52
39.083	0.00	0.01	0.054	0					0.52
39.167	0.00	0.01	0.054	0					0.52
39.250	0.00	0.01	0.054	0					0.52
39.333	0.00	0.01	0.054	0					0.52
39.417	0.00	0.01	0.054	0					0.52

39.500	0.00	0.01	0.054	0					0.52
39.583	0.00	0.01	0.054	0					0.52
39.667	0.00	0.01	0.054	0					0.52
39.750	0.00	0.01	0.054	0					0.52
39.833	0.00	0.01	0.054	0					0.52
39.917	0.00	0.01	0.054	0					0.52
40.000	0.00	0.01	0.054	0					0.52
40.083	0.00	0.01	0.054	0					0.52
40.167	0.00	0.01	0.054	0					0.52
40.250	0.00	0.01	0.054	0					0.52
40.333	0.00	0.01	0.054	0					0.51
40.417	0.00	0.01	0.054	0					0.51
40.500	0.00	0.01	0.054	0					0.51
40.583	0.00	0.01	0.054	0					0.51
40.667	0.00	0.01	0.054	0					0.51
40.750	0.00	0.01	0.054	0					0.51
40.833	0.00	0.01	0.054	0					0.51
40.917	0.00	0.00	0.053	0					0.51
41.000	0.00	0.00	0.053	0					0.51
41.083	0.00	0.00	0.053	0					0.51
41.167	0.00	0.00	0.053	0					0.51
41.250	0.00	0.00	0.053	0					0.51
41.333	0.00	0.00	0.053	0					0.51
41.417	0.00	0.00	0.053	0					0.51
41.500	0.00	0.00	0.053	0					0.51
41.583	0.00	0.00	0.053	0					0.51
41.667	0.00	0.00	0.053	0					0.51
41.750	0.00	0.00	0.053	0					0.51
41.833	0.00	0.00	0.053	0					0.51
41.917	0.00	0.00	0.053	0					0.51
42.000	0.00	0.00	0.053	0					0.51
42.083	0.00	0.00	0.053	0					0.51
42.167	0.00	0.00	0.053	0					0.51
42.250	0.00	0.00	0.053	0					0.51
42.333	0.00	0.00	0.053	0					0.51
42.417	0.00	0.00	0.053	0					0.51
42.500	0.00	0.00	0.053	0					0.51
42.583	0.00	0.00	0.053	0					0.51
42.667	0.00	0.00	0.053	0					0.51
42.750	0.00	0.00	0.053	0					0.51
42.833	0.00	0.00	0.053	0					0.51
42.917	0.00	0.00	0.053	0					0.51
43.000	0.00	0.00	0.053	0					0.51
43.083	0.00	0.00	0.053	0					0.51
43.167	0.00	0.00	0.053	0					0.51
43.250	0.00	0.00	0.053	0					0.51
43.333	0.00	0.00	0.053	0					0.51
43.417	0.00	0.00	0.053	0					0.51
43.500	0.00	0.00	0.053	0					0.51
43.583	0.00	0.00	0.053	0					0.51

43.667	0.00	0.00	0.053	0					0.51
43.750	0.00	0.00	0.053	0					0.51
43.833	0.00	0.00	0.053	0					0.51
43.917	0.00	0.00	0.053	0					0.51
44.000	0.00	0.00	0.053	0					0.51
44.083	0.00	0.00	0.053	0					0.51
44.167	0.00	0.00	0.053	0					0.51
44.250	0.00	0.00	0.053	0					0.51
44.333	0.00	0.00	0.053	0					0.50
44.417	0.00	0.00	0.053	0					0.50
44.500	0.00	0.00	0.053	0					0.50
44.583	0.00	0.00	0.053	0					0.50
44.667	0.00	0.00	0.053	0					0.50
44.750	0.00	0.00	0.053	0					0.50
44.833	0.00	0.00	0.053	0					0.50
44.917	0.00	0.00	0.052	0					0.50
45.000	0.00	0.00	0.052	0					0.50
45.083	0.00	0.00	0.052	0					0.50
45.167	0.00	0.00	0.052	0					0.50
45.250	0.00	0.00	0.052	0					0.50
45.333	0.00	0.00	0.052	0					0.50
45.417	0.00	0.00	0.052	0					0.50
45.500	0.00	0.00	0.052	0					0.50
45.583	0.00	0.00	0.052	0					0.50
45.667	0.00	0.00	0.052	0					0.50
45.750	0.00	0.00	0.052	0					0.50
45.833	0.00	0.00	0.052	0					0.50
45.917	0.00	0.00	0.052	0					0.50
46.000	0.00	0.00	0.052	0					0.50
46.083	0.00	0.00	0.052	0					0.50
46.167	0.00	0.00	0.052	0					0.50
46.250	0.00	0.00	0.052	0					0.50
46.333	0.00	0.00	0.052	0					0.50
46.417	0.00	0.00	0.052	0					0.50
46.500	0.00	0.00	0.052	0					0.50
46.583	0.00	0.00	0.052	0					0.50
46.667	0.00	0.00	0.052	0					0.50
46.750	0.00	0.00	0.052	0					0.50

Remaining water in basin = 0.05 (Ac.Ft)

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

Number of intervals = 561

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.713 (CFS)

Total volume = 0.464 (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

DMA 3 Proposed 2-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 3 2YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH12.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.597 (CFS)
Total volume = 0.047 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
 Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
 Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
 Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
 flow capacity is being calculated using depth = diameter
 Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
 Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
 Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

 Total number of inflow hydrograph intervals = 13
 Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.4	0.80	1.20	1.60	Depth (Ft.)
0.083	0.20	0.00	0.001	0	I				0.01
0.167	0.29	0.00	0.002	0	I				0.04
0.250	0.33	0.00	0.005	0	I				0.08
0.333	0.35	0.00	0.007	0	I				0.11
0.417	0.37	0.00	0.009	0	I				0.16
0.500	0.40	0.00	0.012	0	I				0.20
0.583	0.49	0.00	0.015	0	I				0.25
0.667	0.57	0.00	0.019	0	I				0.31
0.750	0.79	0.00	0.023	0	I	I			0.39
0.833	1.60	0.01	0.032	0				I	0.52
0.917	0.96	0.06	0.040	0		I			0.65
1.000	0.38	0.08	0.044	0	I				0.70
1.083	0.10	0.09	0.045	0	I				0.72
1.167	0.00	0.09	0.045	0	I				0.72
1.250	0.00	0.08	0.045	0	I				0.71
1.333	0.00	0.08	0.044	0	I				0.70
1.417	0.00	0.08	0.044	0	I				0.69
1.500	0.00	0.07	0.043	0	I				0.69
1.583	0.00	0.07	0.043	0	I				0.68
1.667	0.00	0.07	0.042	0	I				0.67
1.750	0.00	0.06	0.042	0	I				0.67
1.833	0.00	0.06	0.041	0	I				0.66
1.917	0.00	0.06	0.041	0	I				0.65
2.000	0.00	0.06	0.040	0	I				0.65
2.083	0.00	0.06	0.040	0	I				0.64
2.167	0.00	0.05	0.040	0	I				0.64
2.250	0.00	0.05	0.039	0	I				0.63
2.333	0.00	0.05	0.039	0	I				0.63
2.417	0.00	0.05	0.038	0	I				0.62
2.500	0.00	0.05	0.038	0	I				0.62
2.583	0.00	0.04	0.038	0	I				0.61
2.667	0.00	0.04	0.038	0	I				0.61
2.750	0.00	0.04	0.037	0	I				0.60
2.833	0.00	0.04	0.037	0	I				0.60
2.917	0.00	0.04	0.037	0	I				0.60
3.000	0.00	0.04	0.036	0	I				0.59
3.083	0.00	0.03	0.036	0	I				0.59
3.167	0.00	0.03	0.036	0	I				0.59
3.250	0.00	0.03	0.036	0	I				0.58
3.333	0.00	0.03	0.036	0	I				0.58
3.417	0.00	0.03	0.035	0	I				0.58
3.500	0.00	0.03	0.035	0	I				0.57
3.583	0.00	0.03	0.035	0	I				0.57
3.667	0.00	0.03	0.035	0	I				0.57
3.750	0.00	0.03	0.035	0	I				0.57
3.833	0.00	0.02	0.034	0	I				0.56
3.917	0.00	0.02	0.034	0	I				0.56
4.000	0.00	0.02	0.034	0	I				0.56

4.083	0.00	0.02	0.034	0					0.56
4.167	0.00	0.02	0.034	0					0.55
4.250	0.00	0.02	0.034	0					0.55
4.333	0.00	0.02	0.033	0					0.55
4.417	0.00	0.02	0.033	0					0.55
4.500	0.00	0.02	0.033	0					0.55
4.583	0.00	0.02	0.033	0					0.54
4.667	0.00	0.02	0.033	0					0.54
4.750	0.00	0.02	0.033	0					0.54
4.833	0.00	0.02	0.033	0					0.54
4.917	0.00	0.01	0.033	0					0.54
5.000	0.00	0.01	0.033	0					0.54
5.083	0.00	0.01	0.032	0					0.54
5.167	0.00	0.01	0.032	0					0.53
5.250	0.00	0.01	0.032	0					0.53
5.333	0.00	0.01	0.032	0					0.53
5.417	0.00	0.01	0.032	0					0.53
5.500	0.00	0.01	0.032	0					0.53
5.583	0.00	0.01	0.032	0					0.53
5.667	0.00	0.01	0.032	0					0.53
5.750	0.00	0.01	0.032	0					0.53
5.833	0.00	0.01	0.032	0					0.52
5.917	0.00	0.01	0.032	0					0.52
6.000	0.00	0.01	0.032	0					0.52
6.083	0.00	0.01	0.032	0					0.52
6.167	0.00	0.01	0.031	0					0.52
6.250	0.00	0.01	0.031	0					0.52
6.333	0.00	0.01	0.031	0					0.52
6.417	0.00	0.01	0.031	0					0.52
6.500	0.00	0.01	0.031	0					0.52
6.583	0.00	0.01	0.031	0					0.52
6.667	0.00	0.01	0.031	0					0.52
6.750	0.00	0.01	0.031	0					0.52
6.833	0.00	0.01	0.031	0					0.52
6.917	0.00	0.01	0.031	0					0.52
7.000	0.00	0.01	0.031	0					0.51
7.083	0.00	0.01	0.031	0					0.51
7.167	0.00	0.01	0.031	0					0.51
7.250	0.00	0.01	0.031	0					0.51
7.333	0.00	0.00	0.031	0					0.51
7.417	0.00	0.00	0.031	0					0.51
7.500	0.00	0.00	0.031	0					0.51
7.583	0.00	0.00	0.031	0					0.51
7.667	0.00	0.00	0.031	0					0.51
7.750	0.00	0.00	0.031	0					0.51
7.833	0.00	0.00	0.031	0					0.51
7.917	0.00	0.00	0.031	0					0.51
8.000	0.00	0.00	0.031	0					0.51
8.083	0.00	0.00	0.031	0					0.51
8.167	0.00	0.00	0.031	0					0.51

8.250	0.00	0.00	0.031	0					0.51
8.333	0.00	0.00	0.031	0					0.51
8.417	0.00	0.00	0.031	0					0.51
8.500	0.00	0.00	0.031	0					0.51
8.583	0.00	0.00	0.030	0					0.51
8.667	0.00	0.00	0.030	0					0.51
8.750	0.00	0.00	0.030	0					0.51
8.833	0.00	0.00	0.030	0					0.51
8.917	0.00	0.00	0.030	0					0.51
9.000	0.00	0.00	0.030	0					0.51
9.083	0.00	0.00	0.030	0					0.51
9.167	0.00	0.00	0.030	0					0.51
9.250	0.00	0.00	0.030	0					0.51
9.333	0.00	0.00	0.030	0					0.50
9.417	0.00	0.00	0.030	0					0.50
9.500	0.00	0.00	0.030	0					0.50
9.583	0.00	0.00	0.030	0					0.50
9.667	0.00	0.00	0.030	0					0.50
9.750	0.00	0.00	0.030	0					0.50
9.833	0.00	0.00	0.030	0					0.50
9.917	0.00	0.00	0.030	0					0.50
10.000	0.00	0.00	0.030	0					0.50
10.083	0.00	0.00	0.030	0					0.50
10.167	0.00	0.00	0.030	0					0.50
10.250	0.00	0.00	0.030	0					0.50
10.333	0.00	0.00	0.030	0					0.50
10.417	0.00	0.00	0.030	0					0.50
10.500	0.00	0.00	0.030	0					0.50
10.583	0.00	0.00	0.030	0					0.50
10.667	0.00	0.00	0.030	0					0.50
10.750	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 129

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.086 (CFS)

Total volume = 0.017 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 3 2YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH32.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.907 (CFS)
Total volume = 0.076 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.2	0.45	0.68	0.91	Depth (Ft.)
0.083	0.10	0.00	0.000	0	I				0.01
0.167	0.14	0.00	0.001	0	I				0.02
0.250	0.13	0.00	0.002	0	I				0.03
0.333	0.15	0.00	0.003	0	I				0.05
0.417	0.16	0.00	0.004	0	I				0.07
0.500	0.19	0.00	0.005	0	I				0.09
0.583	0.17	0.00	0.007	0	I				0.11
0.667	0.19	0.00	0.008	0	I				0.13
0.750	0.20	0.00	0.009	0	I				0.15
0.833	0.17	0.00	0.010	0	I				0.17
0.917	0.17	0.00	0.012	0	I				0.19
1.000	0.19	0.00	0.013	0	I				0.21
1.083	0.23	0.00	0.014	0	I				0.24
1.167	0.24	0.00	0.016	0	I				0.26
1.250	0.24	0.00	0.018	0	I				0.29
1.333	0.22	0.00	0.019	0	I				0.32
1.417	0.26	0.00	0.021	0	I				0.35
1.500	0.29	0.00	0.023	0	I				0.38
1.583	0.27	0.00	0.025	0	I				0.41
1.667	0.28	0.00	0.027	0	I				0.44
1.750	0.34	0.00	0.029	0	I				0.48
1.833	0.34	0.01	0.031	0	I				0.51
1.917	0.32	0.02	0.033	0	I				0.55
2.000	0.32	0.03	0.035	0	I				0.58
2.083	0.33	0.04	0.037	0	I				0.60
2.167	0.42	0.05	0.040	0	I	I			0.64
2.250	0.52	0.07	0.042	0	I	I			0.68
2.333	0.43	0.08	0.045	0	I	I			0.72
2.417	0.64	0.10	0.048	0	I	I	I		0.76
2.500	0.80	0.13	0.052	0	I	I	I	I	0.82
2.583	0.91	0.15	0.057	0	I	I	I	I	0.89
2.667	0.74	0.18	0.062	0	I	I	I	I	0.95
2.750	0.35	0.19	0.064	0	I	I	I	I	0.99
2.833	0.20	0.20	0.065	0	I	I	I	I	1.00
2.917	0.20	0.20	0.065	0	I	I	I	I	1.00
3.000	0.11	0.19	0.065	I	0	I	I	I	0.99
3.083	0.02	0.19	0.064	I	0	I	I	I	0.98
3.167	0.00	0.18	0.063	I	0	I	I	I	0.96
3.250	0.00	0.18	0.061	I	0	I	I	I	0.95
3.333	0.00	0.17	0.060	I	0	I	I	I	0.93
3.417	0.00	0.16	0.059	I	0	I	I	I	0.91
3.500	0.00	0.16	0.058	I	0	I	I	I	0.90
3.583	0.00	0.15	0.057	I	0	I	I	I	0.88
3.667	0.00	0.14	0.056	I	0	I	I	I	0.87
3.750	0.00	0.14	0.055	I	0	I	I	I	0.85
3.833	0.00	0.13	0.054	I	0	I	I	I	0.84
3.917	0.00	0.13	0.053	I	0	I	I	I	0.83
4.000	0.00	0.12	0.052	I	0	I	I	I	0.82

4.083	0.00	0.12	0.051	I	0					0.80
4.167	0.00	0.11	0.050	I	0					0.79
4.250	0.00	0.11	0.050	I	0					0.78
4.333	0.00	0.11	0.049	I	0					0.77
4.417	0.00	0.10	0.048	I	0					0.76
4.500	0.00	0.10	0.048	I	0					0.75
4.583	0.00	0.09	0.047	I	0					0.74
4.667	0.00	0.09	0.046	I	0					0.73
4.750	0.00	0.09	0.046	I	0					0.72
4.833	0.00	0.08	0.045	I	0					0.71
4.917	0.00	0.08	0.044	I	0					0.71
5.000	0.00	0.08	0.044	I	0					0.70
5.083	0.00	0.07	0.043	I	0					0.69
5.167	0.00	0.07	0.043	I	0					0.68
5.250	0.00	0.07	0.042	I	0					0.68
5.333	0.00	0.07	0.042	I	0					0.67
5.417	0.00	0.06	0.041	I	0					0.66
5.500	0.00	0.06	0.041	I	0					0.66
5.583	0.00	0.06	0.041	I	0					0.65
5.667	0.00	0.06	0.040	I	0					0.65
5.750	0.00	0.06	0.040	IO						0.64
5.833	0.00	0.05	0.039	IO						0.63
5.917	0.00	0.05	0.039	IO						0.63
6.000	0.00	0.05	0.039	IO						0.62
6.083	0.00	0.05	0.038	IO						0.62
6.167	0.00	0.05	0.038	IO						0.62
6.250	0.00	0.04	0.038	IO						0.61
6.333	0.00	0.04	0.037	IO						0.61
6.417	0.00	0.04	0.037	IO						0.60
6.500	0.00	0.04	0.037	IO						0.60
6.583	0.00	0.04	0.037	IO						0.60
6.667	0.00	0.04	0.036	IO						0.59
6.750	0.00	0.03	0.036	IO						0.59
6.833	0.00	0.03	0.036	IO						0.58
6.917	0.00	0.03	0.036	IO						0.58
7.000	0.00	0.03	0.035	IO						0.58
7.083	0.00	0.03	0.035	IO						0.58
7.167	0.00	0.03	0.035	IO						0.57
7.250	0.00	0.03	0.035	0						0.57
7.333	0.00	0.03	0.035	0						0.57
7.417	0.00	0.03	0.035	0						0.56
7.500	0.00	0.02	0.034	0						0.56
7.583	0.00	0.02	0.034	0						0.56
7.667	0.00	0.02	0.034	0						0.56
7.750	0.00	0.02	0.034	0						0.56
7.833	0.00	0.02	0.034	0						0.55
7.917	0.00	0.02	0.034	0						0.55
8.000	0.00	0.02	0.033	0						0.55
8.083	0.00	0.02	0.033	0						0.55
8.167	0.00	0.02	0.033	0						0.55

8.250	0.00	0.02	0.033	0					0.54
8.333	0.00	0.02	0.033	0					0.54
8.417	0.00	0.02	0.033	0					0.54
8.500	0.00	0.02	0.033	0					0.54
8.583	0.00	0.01	0.033	0					0.54
8.667	0.00	0.01	0.033	0					0.54
8.750	0.00	0.01	0.032	0					0.53
8.833	0.00	0.01	0.032	0					0.53
8.917	0.00	0.01	0.032	0					0.53
9.000	0.00	0.01	0.032	0					0.53
9.083	0.00	0.01	0.032	0					0.53
9.167	0.00	0.01	0.032	0					0.53
9.250	0.00	0.01	0.032	0					0.53
9.333	0.00	0.01	0.032	0					0.53
9.417	0.00	0.01	0.032	0					0.53
9.500	0.00	0.01	0.032	0					0.52
9.583	0.00	0.01	0.032	0					0.52
9.667	0.00	0.01	0.032	0					0.52
9.750	0.00	0.01	0.032	0					0.52
9.833	0.00	0.01	0.031	0					0.52
9.917	0.00	0.01	0.031	0					0.52
10.000	0.00	0.01	0.031	0					0.52
10.083	0.00	0.01	0.031	0					0.52
10.167	0.00	0.01	0.031	0					0.52
10.250	0.00	0.01	0.031	0					0.52
10.333	0.00	0.01	0.031	0					0.52
10.417	0.00	0.01	0.031	0					0.52
10.500	0.00	0.01	0.031	0					0.52
10.583	0.00	0.01	0.031	0					0.51
10.667	0.00	0.01	0.031	0					0.51
10.750	0.00	0.01	0.031	0					0.51
10.833	0.00	0.01	0.031	0					0.51
10.917	0.00	0.01	0.031	0					0.51
11.000	0.00	0.00	0.031	0					0.51
11.083	0.00	0.00	0.031	0					0.51
11.167	0.00	0.00	0.031	0					0.51
11.250	0.00	0.00	0.031	0					0.51
11.333	0.00	0.00	0.031	0					0.51
11.417	0.00	0.00	0.031	0					0.51
11.500	0.00	0.00	0.031	0					0.51
11.583	0.00	0.00	0.031	0					0.51
11.667	0.00	0.00	0.031	0					0.51
11.750	0.00	0.00	0.031	0					0.51
11.833	0.00	0.00	0.031	0					0.51
11.917	0.00	0.00	0.031	0					0.51
12.000	0.00	0.00	0.031	0					0.51
12.083	0.00	0.00	0.031	0					0.51
12.167	0.00	0.00	0.031	0					0.51
12.250	0.00	0.00	0.030	0					0.51
12.333	0.00	0.00	0.030	0					0.51

12.417	0.00	0.00	0.030	0					0.51
12.500	0.00	0.00	0.030	0					0.51
12.583	0.00	0.00	0.030	0					0.51
12.667	0.00	0.00	0.030	0					0.51
12.750	0.00	0.00	0.030	0					0.51
12.833	0.00	0.00	0.030	0					0.51
12.917	0.00	0.00	0.030	0					0.51
13.000	0.00	0.00	0.030	0					0.50
13.083	0.00	0.00	0.030	0					0.50
13.167	0.00	0.00	0.030	0					0.50
13.250	0.00	0.00	0.030	0					0.50
13.333	0.00	0.00	0.030	0					0.50
13.417	0.00	0.00	0.030	0					0.50
13.500	0.00	0.00	0.030	0					0.50
13.583	0.00	0.00	0.030	0					0.50
13.667	0.00	0.00	0.030	0					0.50
13.750	0.00	0.00	0.030	0					0.50
13.833	0.00	0.00	0.030	0					0.50
13.917	0.00	0.00	0.030	0					0.50
14.000	0.00	0.00	0.030	0					0.50
14.083	0.00	0.00	0.030	0					0.50
14.167	0.00	0.00	0.030	0					0.50
14.250	0.00	0.00	0.030	0					0.50
14.333	0.00	0.00	0.030	0					0.50
14.417	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 173

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.046 (Ac.Ft)

Status of hydrographs being held in storage

Stream 1 Stream 2 Stream 3 Stream 4 Stream 5

Peak (CFS) 0.000 0.000 0.000 0.000 0.000

Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 3 2YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH62.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.824 (CFS)
Total volume = 0.104 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.2	0.41	0.62	0.82	Depth (Ft.)
0.083	0.05	0.00	0.000	OI					0.00
0.167	0.09	0.00	0.001	0 I					0.01
0.250	0.09	0.00	0.001	0 I					0.02
0.333	0.09	0.00	0.002	0 I					0.03
0.417	0.09	0.00	0.002	0 I					0.04
0.500	0.10	0.00	0.003	0 I					0.05
0.583	0.10	0.00	0.004	0 I					0.06
0.667	0.10	0.00	0.005	0 I					0.08
0.750	0.10	0.00	0.005	0 I					0.09
0.833	0.10	0.00	0.006	0 I					0.10
0.917	0.10	0.00	0.007	0 I					0.11
1.000	0.12	0.00	0.008	0 I					0.13
1.083	0.12	0.00	0.008	0 I					0.14
1.167	0.12	0.00	0.009	0 I					0.15
1.250	0.12	0.00	0.010	0 I					0.17
1.333	0.12	0.00	0.011	0 I					0.18
1.417	0.12	0.00	0.012	0 I					0.19
1.500	0.12	0.00	0.012	0 I					0.21
1.583	0.12	0.00	0.013	0 I					0.22
1.667	0.12	0.00	0.014	0 I					0.23
1.750	0.12	0.00	0.015	0 I					0.25
1.833	0.12	0.00	0.016	0 I					0.26
1.917	0.12	0.00	0.017	0 I					0.28
2.000	0.13	0.00	0.017	0 I					0.29
2.083	0.12	0.00	0.018	0 I					0.31
2.167	0.13	0.00	0.019	0 I					0.32
2.250	0.13	0.00	0.020	0 I					0.34
2.333	0.13	0.00	0.021	0 I					0.35
2.417	0.13	0.00	0.022	0 I					0.37
2.500	0.13	0.00	0.023	0 I					0.38
2.583	0.13	0.00	0.024	0 I					0.40
2.667	0.13	0.00	0.025	0 I					0.41
2.750	0.15	0.00	0.026	0 I					0.43
2.833	0.15	0.00	0.027	0 I					0.45
2.917	0.15	0.00	0.028	0 I					0.46
3.000	0.15	0.00	0.029	0 I					0.48
3.083	0.15	0.00	0.030	0 I					0.50
3.167	0.16	0.00	0.031	0 I					0.51
3.250	0.16	0.01	0.032	0 I					0.53
3.333	0.16	0.02	0.033	0 I					0.54
3.417	0.18	0.02	0.034	0 I					0.56
3.500	0.19	0.03	0.035	0 I					0.57
3.583	0.21	0.04	0.036	0 I					0.59
3.667	0.21	0.04	0.037	0 I					0.61
3.750	0.22	0.05	0.039	0 I					0.62
3.833	0.22	0.05	0.040	0 I					0.64
3.917	0.24	0.06	0.041	0 I					0.66
4.000	0.24	0.07	0.042	0 I					0.67

4.083	0.25	0.07	0.043	0	I				0.69	
4.167	0.27	0.08	0.045	0	I				0.71	
4.250	0.28	0.09	0.046	0	I				0.73	
4.333	0.30	0.10	0.047	0	I				0.75	
4.417	0.31	0.10	0.049	0	I				0.77	
4.500	0.31	0.11	0.050	0	I				0.79	
4.583	0.33	0.12	0.051	0	I				0.81	
4.667	0.34	0.13	0.053	0	I				0.83	
4.750	0.36	0.14	0.054	0	I				0.85	
4.833	0.36	0.14	0.056	0	I				0.87	
4.917	0.37	0.15	0.057	0	I				0.89	
5.000	0.39	0.16	0.059	0	I				0.91	
5.083	0.44	0.17	0.061	0		I			0.94	
5.167	0.52	0.18	0.063	0		I			0.97	
5.250	0.57	0.20	0.065	0			I		1.00	
5.333	0.62	0.20	0.068	0			I		1.03	
5.417	0.68	0.20	0.071	0				I	1.07	
5.500	0.82	0.20	0.075	0					I	1.12
5.583	0.47	0.20	0.078	0		I			1.16	
5.667	0.18	0.20	0.079	0					1.17	
5.750	0.10	0.20	0.078	I	0				1.16	
5.833	0.08	0.20	0.078	I	0				1.15	
5.917	0.05	0.20	0.077	I	0				1.14	
6.000	0.03	0.20	0.076	I	0				1.13	
6.083	0.01	0.20	0.075	I	0				1.12	
6.167	0.00	0.20	0.073	I	0				1.10	
6.250	0.00	0.20	0.072	I	0				1.08	
6.333	0.00	0.20	0.070	I	0				1.07	
6.417	0.00	0.20	0.069	I	0				1.05	
6.500	0.00	0.20	0.068	I	0				1.03	
6.583	0.00	0.20	0.066	I	0				1.02	
6.667	0.00	0.20	0.065	I	0				1.00	
6.750	0.00	0.19	0.064	I	0				0.98	
6.833	0.00	0.18	0.062	I	0				0.96	
6.917	0.00	0.18	0.061	I	0				0.95	
7.000	0.00	0.17	0.060	I	0				0.93	
7.083	0.00	0.16	0.059	I	0				0.91	
7.167	0.00	0.16	0.058	I	0				0.90	
7.250	0.00	0.15	0.057	I	0				0.88	
7.333	0.00	0.14	0.056	I	0				0.87	
7.417	0.00	0.14	0.055	I	0				0.85	
7.500	0.00	0.13	0.054	I	0				0.84	
7.583	0.00	0.13	0.053	I	0				0.83	
7.667	0.00	0.12	0.052	I	0				0.82	
7.750	0.00	0.12	0.051	I	0				0.80	
7.833	0.00	0.11	0.050	I	0				0.79	
7.917	0.00	0.11	0.050	I	0				0.78	
8.000	0.00	0.11	0.049	I	0				0.77	
8.083	0.00	0.10	0.048	I	0				0.76	
8.167	0.00	0.10	0.047	I	0				0.75	

8.250	0.00	0.09	0.047	I	0					0.74
8.333	0.00	0.09	0.046	I	0					0.73
8.417	0.00	0.09	0.046	I	0					0.72
8.500	0.00	0.08	0.045	I	0					0.71
8.583	0.00	0.08	0.044	I	0					0.71
8.667	0.00	0.08	0.044	I	0					0.70
8.750	0.00	0.07	0.043	I	0					0.69
8.833	0.00	0.07	0.043	I	0					0.68
8.917	0.00	0.07	0.042	I	0					0.68
9.000	0.00	0.07	0.042	I	0					0.67
9.083	0.00	0.06	0.041	I	0					0.66
9.167	0.00	0.06	0.041	I	0					0.66
9.250	0.00	0.06	0.041	I	0					0.65
9.333	0.00	0.06	0.040	I	0					0.65
9.417	0.00	0.05	0.040	I	0					0.64
9.500	0.00	0.05	0.039	I	0					0.63
9.583	0.00	0.05	0.039	IO						0.63
9.667	0.00	0.05	0.039	IO						0.62
9.750	0.00	0.05	0.038	IO						0.62
9.833	0.00	0.05	0.038	IO						0.62
9.917	0.00	0.04	0.038	IO						0.61
10.000	0.00	0.04	0.037	IO						0.61
10.083	0.00	0.04	0.037	IO						0.60
10.167	0.00	0.04	0.037	IO						0.60
10.250	0.00	0.04	0.037	IO						0.60
10.333	0.00	0.04	0.036	IO						0.59
10.417	0.00	0.03	0.036	IO						0.59
10.500	0.00	0.03	0.036	IO						0.58
10.583	0.00	0.03	0.036	IO						0.58
10.667	0.00	0.03	0.035	IO						0.58
10.750	0.00	0.03	0.035	IO						0.58
10.833	0.00	0.03	0.035	IO						0.57
10.917	0.00	0.03	0.035	IO						0.57
11.000	0.00	0.03	0.035	IO						0.57
11.083	0.00	0.03	0.035	O						0.56
11.167	0.00	0.02	0.034	O						0.56
11.250	0.00	0.02	0.034	O						0.56
11.333	0.00	0.02	0.034	O						0.56
11.417	0.00	0.02	0.034	O						0.56
11.500	0.00	0.02	0.034	O						0.55
11.583	0.00	0.02	0.034	O						0.55
11.667	0.00	0.02	0.033	O						0.55
11.750	0.00	0.02	0.033	O						0.55
11.833	0.00	0.02	0.033	O						0.55
11.917	0.00	0.02	0.033	O						0.54
12.000	0.00	0.02	0.033	O						0.54
12.083	0.00	0.02	0.033	O						0.54
12.167	0.00	0.02	0.033	O						0.54
12.250	0.00	0.01	0.033	O						0.54
12.333	0.00	0.01	0.033	O						0.54

12.417	0.00	0.01	0.032	0					0.53
12.500	0.00	0.01	0.032	0					0.53
12.583	0.00	0.01	0.032	0					0.53
12.667	0.00	0.01	0.032	0					0.53
12.750	0.00	0.01	0.032	0					0.53
12.833	0.00	0.01	0.032	0					0.53
12.917	0.00	0.01	0.032	0					0.53
13.000	0.00	0.01	0.032	0					0.53
13.083	0.00	0.01	0.032	0					0.53
13.167	0.00	0.01	0.032	0					0.52
13.250	0.00	0.01	0.032	0					0.52
13.333	0.00	0.01	0.032	0					0.52
13.417	0.00	0.01	0.032	0					0.52
13.500	0.00	0.01	0.031	0					0.52
13.583	0.00	0.01	0.031	0					0.52
13.667	0.00	0.01	0.031	0					0.52
13.750	0.00	0.01	0.031	0					0.52
13.833	0.00	0.01	0.031	0					0.52
13.917	0.00	0.01	0.031	0					0.52
14.000	0.00	0.01	0.031	0					0.52
14.083	0.00	0.01	0.031	0					0.52
14.167	0.00	0.01	0.031	0					0.52
14.250	0.00	0.01	0.031	0					0.51
14.333	0.00	0.01	0.031	0					0.51
14.417	0.00	0.01	0.031	0					0.51
14.500	0.00	0.01	0.031	0					0.51
14.583	0.00	0.01	0.031	0					0.51
14.667	0.00	0.00	0.031	0					0.51
14.750	0.00	0.00	0.031	0					0.51
14.833	0.00	0.00	0.031	0					0.51
14.917	0.00	0.00	0.031	0					0.51
15.000	0.00	0.00	0.031	0					0.51
15.083	0.00	0.00	0.031	0					0.51
15.167	0.00	0.00	0.031	0					0.51
15.250	0.00	0.00	0.031	0					0.51
15.333	0.00	0.00	0.031	0					0.51
15.417	0.00	0.00	0.031	0					0.51
15.500	0.00	0.00	0.031	0					0.51
15.583	0.00	0.00	0.031	0					0.51
15.667	0.00	0.00	0.031	0					0.51
15.750	0.00	0.00	0.031	0					0.51
15.833	0.00	0.00	0.031	0					0.51
15.917	0.00	0.00	0.030	0					0.51
16.000	0.00	0.00	0.030	0					0.51
16.083	0.00	0.00	0.030	0					0.51
16.167	0.00	0.00	0.030	0					0.51
16.250	0.00	0.00	0.030	0					0.51
16.333	0.00	0.00	0.030	0					0.51
16.417	0.00	0.00	0.030	0					0.51
16.500	0.00	0.00	0.030	0					0.51

16.583	0.00	0.00	0.030	0					0.51
16.667	0.00	0.00	0.030	0					0.50
16.750	0.00	0.00	0.030	0					0.50
16.833	0.00	0.00	0.030	0					0.50
16.917	0.00	0.00	0.030	0					0.50
17.000	0.00	0.00	0.030	0					0.50
17.083	0.00	0.00	0.030	0					0.50
17.167	0.00	0.00	0.030	0					0.50
17.250	0.00	0.00	0.030	0					0.50
17.333	0.00	0.00	0.030	0					0.50
17.417	0.00	0.00	0.030	0					0.50
17.500	0.00	0.00	0.030	0					0.50
17.583	0.00	0.00	0.030	0					0.50
17.667	0.00	0.00	0.030	0					0.50
17.750	0.00	0.00	0.030	0					0.50
17.833	0.00	0.00	0.030	0					0.50
17.917	0.00	0.00	0.030	0					0.50
18.000	0.00	0.00	0.030	0					0.50
18.083	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 217

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.073 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 3 2YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH242.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.294 (CFS)
Total volume = 0.178 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.1	0.15	0.22	0.29	Depth (Ft.)
0.083	0.01	0.00	0.000	OI					0.00
0.167	0.02	0.00	0.000	OI					0.00
0.250	0.02	0.00	0.000	OI					0.00
0.333	0.02	0.00	0.000	O I					0.01
0.417	0.03	0.00	0.001	O I					0.01
0.500	0.03	0.00	0.001	O I					0.01
0.583	0.03	0.00	0.001	O I					0.02
0.667	0.03	0.00	0.001	O I					0.02
0.750	0.03	0.00	0.001	O I					0.02
0.833	0.03	0.00	0.001	O I					0.02
0.917	0.03	0.00	0.002	O I					0.03
1.000	0.03	0.00	0.002	O I					0.03
1.083	0.03	0.00	0.002	O I					0.04
1.167	0.03	0.00	0.002	O I					0.04
1.250	0.03	0.00	0.003	O I					0.04
1.333	0.03	0.00	0.003	O I					0.05
1.417	0.03	0.00	0.003	O I					0.05
1.500	0.03	0.00	0.003	O I					0.05
1.583	0.03	0.00	0.003	O I					0.05
1.667	0.03	0.00	0.003	O I					0.06
1.750	0.03	0.00	0.004	O I					0.06
1.833	0.03	0.00	0.004	O I					0.06
1.917	0.03	0.00	0.004	O I					0.07
2.000	0.03	0.00	0.004	O I					0.07
2.083	0.03	0.00	0.005	O I					0.08
2.167	0.03	0.00	0.005	O I					0.08
2.250	0.03	0.00	0.005	O I					0.08
2.333	0.03	0.00	0.005	O I					0.09
2.417	0.03	0.00	0.005	O I					0.09
2.500	0.03	0.00	0.006	O I					0.09
2.583	0.04	0.00	0.006	O I					0.10
2.667	0.04	0.00	0.006	O I					0.10
2.750	0.04	0.00	0.007	O I					0.11
2.833	0.04	0.00	0.007	O I					0.11
2.917	0.04	0.00	0.007	O I					0.12
3.000	0.04	0.00	0.007	O I					0.12
3.083	0.04	0.00	0.008	O I					0.13
3.167	0.04	0.00	0.008	O I					0.13
3.250	0.04	0.00	0.008	O I					0.14
3.333	0.04	0.00	0.009	O I					0.14
3.417	0.04	0.00	0.009	O I					0.15
3.500	0.04	0.00	0.009	O I					0.15
3.583	0.04	0.00	0.010	O I					0.16
3.667	0.04	0.00	0.010	O I					0.16
3.750	0.04	0.00	0.010	O I					0.17
3.833	0.05	0.00	0.010	O I					0.17
3.917	0.05	0.00	0.011	O I					0.18
4.000	0.05	0.00	0.011	O I					0.19

4.083	0.05	0.00	0.011	0	I					0.19
4.167	0.05	0.00	0.012	0	I					0.20
4.250	0.05	0.00	0.012	0	I					0.20
4.333	0.06	0.00	0.013	0	I					0.21
4.417	0.06	0.00	0.013	0	I					0.22
4.500	0.06	0.00	0.013	0	I					0.22
4.583	0.06	0.00	0.014	0	I					0.23
4.667	0.06	0.00	0.014	0	I					0.24
4.750	0.06	0.00	0.015	0	I					0.24
4.833	0.07	0.00	0.015	0	I					0.25
4.917	0.07	0.00	0.016	0	I					0.26
5.000	0.07	0.00	0.016	0	I					0.27
5.083	0.06	0.00	0.016	0	I					0.27
5.167	0.05	0.00	0.017	0	I					0.28
5.250	0.05	0.00	0.017	0	I					0.29
5.333	0.06	0.00	0.018	0	I					0.29
5.417	0.06	0.00	0.018	0	I					0.30
5.500	0.06	0.00	0.018	0	I					0.31
5.583	0.07	0.00	0.019	0	I					0.31
5.667	0.07	0.00	0.019	0	I					0.32
5.750	0.07	0.00	0.020	0	I					0.33
5.833	0.07	0.00	0.020	0	I					0.34
5.917	0.07	0.00	0.021	0	I					0.35
6.000	0.07	0.00	0.021	0	I					0.35
6.083	0.07	0.00	0.022	0	I					0.36
6.167	0.08	0.00	0.022	0	I					0.37
6.250	0.08	0.00	0.023	0	I					0.38
6.333	0.08	0.00	0.023	0	I					0.39
6.417	0.08	0.00	0.024	0	I					0.40
6.500	0.08	0.00	0.024	0	I					0.41
6.583	0.08	0.00	0.025	0	I					0.42
6.667	0.09	0.00	0.025	0	I					0.42
6.750	0.09	0.00	0.026	0	I					0.43
6.833	0.09	0.00	0.027	0	I					0.44
6.917	0.09	0.00	0.027	0	I					0.45
7.000	0.09	0.00	0.028	0	I					0.46
7.083	0.09	0.00	0.028	0	I					0.47
7.167	0.09	0.00	0.029	0	I					0.48
7.250	0.09	0.00	0.030	0	I					0.49
7.333	0.09	0.00	0.030	0	I					0.50
7.417	0.09	0.00	0.031	0	I					0.51
7.500	0.09	0.01	0.031	0	I					0.52
7.583	0.10	0.01	0.032	0	I					0.53
7.667	0.10	0.02	0.033	0	I					0.54
7.750	0.10	0.02	0.033	0	I					0.55
7.833	0.11	0.02	0.034	0	I					0.56
7.917	0.11	0.03	0.035	0	I					0.56
8.000	0.11	0.03	0.035	0	I					0.57
8.083	0.12	0.03	0.036	0	I					0.58
8.167	0.13	0.04	0.036	0	I					0.59

8.250	0.13	0.04	0.037	0	I		0.60
8.333	0.13	0.04	0.038	0	I		0.61
8.417	0.13	0.05	0.038	0	I		0.62
8.500	0.13	0.05	0.039	0	I		0.62
8.583	0.14	0.05	0.039	0	I		0.63
8.667	0.14	0.06	0.040	0	I		0.64
8.750	0.14	0.06	0.040	0	I		0.65
8.833	0.14	0.06	0.041	0	I		0.66
8.917	0.15	0.06	0.042	0	I		0.67
9.000	0.15	0.07	0.042	0	I		0.67
9.083	0.16	0.07	0.043	0	I		0.68
9.167	0.16	0.07	0.043	0	I		0.69
9.250	0.16	0.08	0.044	0	I		0.70
9.333	0.17	0.08	0.044	0	I		0.71
9.417	0.17	0.08	0.045	0	I		0.72
9.500	0.17	0.09	0.046	0	I		0.72
9.583	0.18	0.09	0.046	0	I		0.73
9.667	0.18	0.09	0.047	0	I		0.74
9.750	0.18	0.10	0.047	0	I		0.75
9.833	0.19	0.10	0.048	0	I		0.76
9.917	0.19	0.10	0.049	0	I		0.77
10.000	0.19	0.11	0.049	0	I		0.77
10.083	0.15	0.11	0.050	0	I		0.78
10.167	0.13	0.11	0.050	0	I		0.78
10.250	0.13	0.11	0.050	0	I		0.79
10.333	0.13	0.11	0.050	0	I		0.79
10.417	0.13	0.11	0.050	0	I		0.79
10.500	0.13	0.11	0.050	0	I		0.79
10.583	0.16	0.12	0.051	0	I		0.79
10.667	0.17	0.12	0.051	0	I		0.80
10.750	0.17	0.12	0.051	0	I		0.80
10.833	0.17	0.12	0.052	0	I		0.81
10.917	0.17	0.12	0.052	0	I		0.81
11.000	0.17	0.12	0.052	0	I		0.82
11.083	0.17	0.13	0.053	0	I		0.82
11.167	0.16	0.13	0.053	0	I		0.83
11.250	0.16	0.13	0.053	0	I		0.83
11.333	0.16	0.13	0.053	0	I		0.83
11.417	0.16	0.13	0.054	0	I		0.84
11.500	0.16	0.13	0.054	0	I		0.84
11.583	0.15	0.13	0.054	0	I		0.84
11.667	0.15	0.13	0.054	0	I		0.84
11.750	0.15	0.14	0.054	0	I		0.84
11.833	0.15	0.14	0.054	0	I		0.85
11.917	0.16	0.14	0.054	0	I		0.85
12.000	0.16	0.14	0.054	0	I		0.85
12.083	0.20	0.14	0.055	0	I		0.85
12.167	0.22	0.14	0.055	0	I		0.86
12.250	0.22	0.14	0.056	0	I		0.87
12.333	0.22	0.15	0.056	0	I		0.87

12.417	0.22	0.15	0.057			0	I		0.88
12.500	0.22	0.15	0.057			0	I		0.89
12.583	0.24	0.16	0.058			0	I		0.90
12.667	0.24	0.16	0.058			0	I		0.90
12.750	0.24	0.16	0.059			0	I		0.91
12.833	0.25	0.16	0.059			0	I		0.92
12.917	0.25	0.17	0.060			0	I		0.93
13.000	0.25	0.17	0.061			0	I		0.94
13.083	0.28	0.17	0.061			0		I	0.95
13.167	0.29	0.18	0.062			0		I	0.96
13.250	0.29	0.18	0.063			0		I	0.97
13.333	0.29	0.19	0.063			0		I	0.98
13.417	0.29	0.19	0.064			0		I	0.99
13.500	0.29	0.20	0.065			0		I	1.00
13.583	0.23	0.20	0.065			0	I		1.00
13.667	0.20	0.20	0.065			0			1.01
13.750	0.20	0.20	0.065			0			1.01
13.833	0.20	0.20	0.065			0			1.01
13.917	0.20	0.20	0.065			0			1.01
14.000	0.20	0.20	0.065			0			1.01
14.083	0.22	0.20	0.066			0	I		1.01
14.167	0.23	0.20	0.066			0	I		1.01
14.250	0.23	0.20	0.066			0	I		1.01
14.333	0.23	0.20	0.066			0	I		1.02
14.417	0.22	0.20	0.066			0	I		1.02
14.500	0.22	0.20	0.067			0	I		1.02
14.583	0.22	0.20	0.067			0	I		1.02
14.667	0.22	0.20	0.067			0	I		1.03
14.750	0.22	0.20	0.067			0	I		1.03
14.833	0.22	0.20	0.067			0	I		1.03
14.917	0.22	0.20	0.068			0	I		1.03
15.000	0.22	0.20	0.068			0	I		1.03
15.083	0.21	0.20	0.068			0	I		1.03
15.167	0.21	0.20	0.068			0	I		1.04
15.250	0.21	0.20	0.068			0	I		1.04
15.333	0.20	0.20	0.068			0			1.04
15.417	0.20	0.20	0.068			0			1.04
15.500	0.20	0.20	0.068			0			1.04
15.583	0.17	0.20	0.068			I	0		1.04
15.667	0.16	0.20	0.068			I	0		1.03
15.750	0.16	0.20	0.068			I	0		1.03
15.833	0.16	0.20	0.067			I	0		1.03
15.917	0.16	0.20	0.067			I	0		1.03
16.000	0.16	0.20	0.067			I	0		1.02
16.083	0.08	0.20	0.066		I		0		1.02
16.167	0.03	0.20	0.065	I			0		1.01
16.250	0.03	0.19	0.064	I			0		0.99
16.333	0.03	0.19	0.063	I			0		0.98
16.417	0.03	0.18	0.062	I			0		0.96
16.500	0.03	0.18	0.061	I			0		0.95

16.583	0.03	0.17	0.060	I		0		0.93
16.667	0.03	0.16	0.059	I		0		0.92
16.750	0.03	0.16	0.058	I		0		0.91
16.833	0.03	0.15	0.057	I		0		0.89
16.917	0.03	0.15	0.057	I		0		0.88
17.000	0.03	0.14	0.056	I		0		0.87
17.083	0.04	0.14	0.055	I		0		0.86
17.167	0.04	0.14	0.054	I		0		0.85
17.250	0.04	0.13	0.054	I		0		0.84
17.333	0.04	0.13	0.053	I		0		0.83
17.417	0.04	0.13	0.053	I		0		0.82
17.500	0.04	0.12	0.052	I		0		0.81
17.583	0.04	0.12	0.051	I		0		0.81
17.667	0.04	0.12	0.051	I		0		0.80
17.750	0.04	0.11	0.050	I		0		0.79
17.833	0.04	0.11	0.050	I		0		0.78
17.917	0.03	0.11	0.049	I		0		0.78
18.000	0.03	0.11	0.049	I		0		0.77
18.083	0.03	0.10	0.048	I		0		0.76
18.167	0.03	0.10	0.048	I		0		0.76
18.250	0.03	0.10	0.047	I		0		0.75
18.333	0.03	0.10	0.047	I		0		0.74
18.417	0.03	0.09	0.047	I		0		0.74
18.500	0.03	0.09	0.046	I		0		0.73
18.583	0.03	0.09	0.046	I		0		0.73
18.667	0.03	0.09	0.045	I		0		0.72
18.750	0.03	0.08	0.045	I		0		0.71
18.833	0.02	0.08	0.045	I		0		0.71
18.917	0.02	0.08	0.044	I		0		0.70
19.000	0.02	0.08	0.044	I		0		0.70
19.083	0.02	0.07	0.043	I		0		0.69
19.167	0.03	0.07	0.043	I		0		0.69
19.250	0.03	0.07	0.043	I		0		0.68
19.333	0.03	0.07	0.042	I		0		0.68
19.417	0.03	0.07	0.042	I		0		0.67
19.500	0.03	0.07	0.042	I		0		0.67
19.583	0.03	0.07	0.042	I		0		0.67
19.667	0.03	0.06	0.041	I		0		0.66
19.750	0.03	0.06	0.041	I		0		0.66
19.833	0.02	0.06	0.041	I		0		0.66
19.917	0.02	0.06	0.041	I		0		0.65
20.000	0.02	0.06	0.040	I		0		0.65
20.083	0.02	0.06	0.040	I		0		0.64
20.167	0.03	0.06	0.040	I		0		0.64
20.250	0.03	0.05	0.040	I		0		0.64
20.333	0.03	0.05	0.039	I		0		0.64
20.417	0.03	0.05	0.039	I		0		0.63
20.500	0.03	0.05	0.039	I		0		0.63
20.583	0.03	0.05	0.039	I		0		0.63
20.667	0.03	0.05	0.039	I		0		0.63

20.750	0.03	0.05	0.039	I 0					0.62
20.833	0.02	0.05	0.038	I 0					0.62
20.917	0.02	0.05	0.038	I 0					0.62
21.000	0.02	0.05	0.038	I 0					0.62
21.083	0.02	0.04	0.038	I 0					0.61
21.167	0.03	0.04	0.038	I 0					0.61
21.250	0.03	0.04	0.038	I 0					0.61
21.333	0.02	0.04	0.038	I 0					0.61
21.417	0.02	0.04	0.037	I 0					0.60
21.500	0.02	0.04	0.037	I 0					0.60
21.583	0.02	0.04	0.037	I 0					0.60
21.667	0.03	0.04	0.037	I 0					0.60
21.750	0.03	0.04	0.037	I 0					0.60
21.833	0.02	0.04	0.037	I 0					0.60
21.917	0.02	0.04	0.037	I 0					0.59
22.000	0.02	0.04	0.036	I 0					0.59
22.083	0.02	0.04	0.036	IO					0.59
22.167	0.03	0.04	0.036	IO					0.59
22.250	0.03	0.04	0.036	IO					0.59
22.333	0.02	0.03	0.036	IO					0.59
22.417	0.02	0.03	0.036	I 0					0.59
22.500	0.02	0.03	0.036	I 0					0.58
22.583	0.02	0.03	0.036	I 0					0.58
22.667	0.02	0.03	0.036	I 0					0.58
22.750	0.02	0.03	0.036	I 0					0.58
22.833	0.02	0.03	0.036	I 0					0.58
22.917	0.02	0.03	0.035	I 0					0.58
23.000	0.02	0.03	0.035	I 0					0.58
23.083	0.02	0.03	0.035	I 0					0.58
23.167	0.02	0.03	0.035	I 0					0.57
23.250	0.02	0.03	0.035	I 0					0.57
23.333	0.02	0.03	0.035	I 0					0.57
23.417	0.02	0.03	0.035	I 0					0.57
23.500	0.02	0.03	0.035	IO					0.57
23.583	0.02	0.03	0.035	IO					0.57
23.667	0.02	0.03	0.035	IO					0.57
23.750	0.02	0.03	0.035	IO					0.57
23.833	0.02	0.03	0.035	IO					0.57
23.917	0.02	0.03	0.035	IO					0.57
24.000	0.02	0.03	0.035	IO					0.56
24.083	0.01	0.02	0.034	I 0					0.56
24.167	0.00	0.02	0.034	I 0					0.56
24.250	0.00	0.02	0.034	I 0					0.56
24.333	0.00	0.02	0.034	I 0					0.56
24.417	0.00	0.02	0.034	I 0					0.55
24.500	0.00	0.02	0.034	I 0					0.55
24.583	0.00	0.02	0.034	I 0					0.55
24.667	0.00	0.02	0.033	I 0					0.55
24.750	0.00	0.02	0.033	IO					0.55
24.833	0.00	0.02	0.033	IO					0.54

24.917	0.00	0.02	0.033	IO					0.54
25.000	0.00	0.02	0.033	IO					0.54
25.083	0.00	0.02	0.033	IO					0.54
25.167	0.00	0.02	0.033	IO					0.54
25.250	0.00	0.01	0.033	IO					0.54
25.333	0.00	0.01	0.032	IO					0.54
25.417	0.00	0.01	0.032	IO					0.53
25.500	0.00	0.01	0.032	IO					0.53
25.583	0.00	0.01	0.032	IO					0.53
25.667	0.00	0.01	0.032	IO					0.53
25.750	0.00	0.01	0.032	IO					0.53
25.833	0.00	0.01	0.032	IO					0.53
25.917	0.00	0.01	0.032	IO					0.53
26.000	0.00	0.01	0.032	IO					0.53
26.083	0.00	0.01	0.032	IO					0.53
26.167	0.00	0.01	0.032	IO					0.52
26.250	0.00	0.01	0.032	0					0.52
26.333	0.00	0.01	0.032	0					0.52
26.417	0.00	0.01	0.032	0					0.52
26.500	0.00	0.01	0.031	0					0.52
26.583	0.00	0.01	0.031	0					0.52
26.667	0.00	0.01	0.031	0					0.52
26.750	0.00	0.01	0.031	0					0.52
26.833	0.00	0.01	0.031	0					0.52
26.917	0.00	0.01	0.031	0					0.52
27.000	0.00	0.01	0.031	0					0.52
27.083	0.00	0.01	0.031	0					0.52
27.167	0.00	0.01	0.031	0					0.52
27.250	0.00	0.01	0.031	0					0.51
27.333	0.00	0.01	0.031	0					0.51
27.417	0.00	0.01	0.031	0					0.51
27.500	0.00	0.01	0.031	0					0.51
27.583	0.00	0.00	0.031	0					0.51
27.667	0.00	0.00	0.031	0					0.51
27.750	0.00	0.00	0.031	0					0.51
27.833	0.00	0.00	0.031	0					0.51
27.917	0.00	0.00	0.031	0					0.51
28.000	0.00	0.00	0.031	0					0.51
28.083	0.00	0.00	0.031	0					0.51
28.167	0.00	0.00	0.031	0					0.51
28.250	0.00	0.00	0.031	0					0.51
28.333	0.00	0.00	0.031	0					0.51
28.417	0.00	0.00	0.031	0					0.51
28.500	0.00	0.00	0.031	0					0.51
28.583	0.00	0.00	0.031	0					0.51
28.667	0.00	0.00	0.031	0					0.51
28.750	0.00	0.00	0.031	0					0.51
28.833	0.00	0.00	0.030	0					0.51
28.917	0.00	0.00	0.030	0					0.51
29.000	0.00	0.00	0.030	0					0.51

29.083	0.00	0.00	0.030	0					0.51
29.167	0.00	0.00	0.030	0					0.51
29.250	0.00	0.00	0.030	0					0.51
29.333	0.00	0.00	0.030	0					0.51
29.417	0.00	0.00	0.030	0					0.51
29.500	0.00	0.00	0.030	0					0.51
29.583	0.00	0.00	0.030	0					0.50
29.667	0.00	0.00	0.030	0					0.50
29.750	0.00	0.00	0.030	0					0.50
29.833	0.00	0.00	0.030	0					0.50
29.917	0.00	0.00	0.030	0					0.50
30.000	0.00	0.00	0.030	0					0.50
30.083	0.00	0.00	0.030	0					0.50
30.167	0.00	0.00	0.030	0					0.50
30.250	0.00	0.00	0.030	0					0.50
30.333	0.00	0.00	0.030	0					0.50
30.417	0.00	0.00	0.030	0					0.50
30.500	0.00	0.00	0.030	0					0.50
30.583	0.00	0.00	0.030	0					0.50
30.667	0.00	0.00	0.030	0					0.50
30.750	0.00	0.00	0.030	0					0.50
30.833	0.00	0.00	0.030	0					0.50
30.917	0.00	0.00	0.030	0					0.50
31.000	0.00	0.00	0.030	0					0.50
31.083	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

*****HYDROGRAPH DATA*****
 Number of intervals = 373
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 0.196 (CFS)
 Total volume = 0.148 (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

DMA 3 Proposed 5-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 3 5YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH15.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.264 (CFS)
Total volume = 0.066 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter

Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 13
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-0*dt/2) (S+0*dt/2)
(Ft.) (Ac.Ft) (CFS) (Ac.Ft) (Ac.Ft)

0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time	Inflow	Outflow	Storage	Depth
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(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	0.6	1.13	1.70	2.26	(Ft.)
0.083	0.27	0.00	0.001	0 I					0.02
0.167	0.40	0.00	0.003	0 I					0.05
0.250	0.46	0.00	0.006	0 I					0.10
0.333	0.49	0.00	0.009	0 I					0.16
0.417	0.50	0.00	0.013	0 I					0.21
0.500	0.56	0.00	0.017	0 I					0.28
0.583	0.67	0.00	0.021	0 I					0.35
0.667	0.81	0.00	0.026	0 I					0.43
0.750	1.14	0.01	0.033	0		I			0.54
0.833	2.26	0.08	0.044	0				I	0.70
0.917	1.35	0.14	0.056	0		I			0.87
1.000	0.53	0.17	0.061	0 I					0.94
1.083	0.14	0.18	0.062	0 IO					0.96
1.167	0.00	0.18	0.061	0 I					0.95
1.250	0.00	0.17	0.060	0 I					0.93
1.333	0.00	0.16	0.059	0 I					0.91
1.417	0.00	0.16	0.058	0 I					0.90
1.500	0.00	0.15	0.057	0 I					0.88
1.583	0.00	0.14	0.056	0 I					0.87
1.667	0.00	0.14	0.055	0 IO					0.85
1.750	0.00	0.13	0.054	0 IO					0.84
1.833	0.00	0.13	0.053	0 IO					0.83
1.917	0.00	0.12	0.052	0 IO					0.82
2.000	0.00	0.12	0.051	0 IO					0.80
2.083	0.00	0.11	0.050	0 IO					0.79
2.167	0.00	0.11	0.050	0 IO					0.78
2.250	0.00	0.11	0.049	0 IO					0.77
2.333	0.00	0.10	0.048	0 IO					0.76
2.417	0.00	0.10	0.048	0 IO					0.75
2.500	0.00	0.09	0.047	0 IO					0.74
2.583	0.00	0.09	0.046	0 IO					0.73
2.667	0.00	0.09	0.046	0 IO					0.72
2.750	0.00	0.08	0.045	0 IO					0.71
2.833	0.00	0.08	0.044	0 IO					0.71
2.917	0.00	0.08	0.044	0 IO					0.70
3.000	0.00	0.08	0.043	0 IO					0.69
3.083	0.00	0.07	0.043	0 IO					0.68
3.167	0.00	0.07	0.042	0					0.68
3.250	0.00	0.07	0.042	0					0.67
3.333	0.00	0.06	0.041	0					0.66
3.417	0.00	0.06	0.041	0					0.66
3.500	0.00	0.06	0.041	0					0.65
3.583	0.00	0.06	0.040	0					0.65
3.667	0.00	0.06	0.040	0					0.64
3.750	0.00	0.05	0.039	0					0.63
3.833	0.00	0.05	0.039	0					0.63
3.917	0.00	0.05	0.039	0					0.62
4.000	0.00	0.05	0.038	0					0.62
4.083	0.00	0.05	0.038	0					0.62

4.167	0.00	0.04	0.038	0					0.61
4.250	0.00	0.04	0.037	0					0.61
4.333	0.00	0.04	0.037	0					0.60
4.417	0.00	0.04	0.037	0					0.60
4.500	0.00	0.04	0.037	0					0.60
4.583	0.00	0.04	0.036	0					0.59
4.667	0.00	0.03	0.036	0					0.59
4.750	0.00	0.03	0.036	0					0.58
4.833	0.00	0.03	0.036	0					0.58
4.917	0.00	0.03	0.035	0					0.58
5.000	0.00	0.03	0.035	0					0.58
5.083	0.00	0.03	0.035	0					0.57
5.167	0.00	0.03	0.035	0					0.57
5.250	0.00	0.03	0.035	0					0.57
5.333	0.00	0.03	0.035	0					0.56
5.417	0.00	0.02	0.034	0					0.56
5.500	0.00	0.02	0.034	0					0.56
5.583	0.00	0.02	0.034	0					0.56
5.667	0.00	0.02	0.034	0					0.56
5.750	0.00	0.02	0.034	0					0.55
5.833	0.00	0.02	0.034	0					0.55
5.917	0.00	0.02	0.033	0					0.55
6.000	0.00	0.02	0.033	0					0.55
6.083	0.00	0.02	0.033	0					0.55
6.167	0.00	0.02	0.033	0					0.54
6.250	0.00	0.02	0.033	0					0.54
6.333	0.00	0.02	0.033	0					0.54
6.417	0.00	0.02	0.033	0					0.54
6.500	0.00	0.01	0.033	0					0.54
6.583	0.00	0.01	0.033	0					0.54
6.667	0.00	0.01	0.032	0					0.53
6.750	0.00	0.01	0.032	0					0.53
6.833	0.00	0.01	0.032	0					0.53
6.917	0.00	0.01	0.032	0					0.53
7.000	0.00	0.01	0.032	0					0.53
7.083	0.00	0.01	0.032	0					0.53
7.167	0.00	0.01	0.032	0					0.53
7.250	0.00	0.01	0.032	0					0.53
7.333	0.00	0.01	0.032	0					0.53
7.417	0.00	0.01	0.032	0					0.52
7.500	0.00	0.01	0.032	0					0.52
7.583	0.00	0.01	0.032	0					0.52
7.667	0.00	0.01	0.032	0					0.52
7.750	0.00	0.01	0.031	0					0.52
7.833	0.00	0.01	0.031	0					0.52
7.917	0.00	0.01	0.031	0					0.52
8.000	0.00	0.01	0.031	0					0.52
8.083	0.00	0.01	0.031	0					0.52
8.167	0.00	0.01	0.031	0					0.52
8.250	0.00	0.01	0.031	0					0.52

8.333	0.00	0.01	0.031	0					0.52
8.417	0.00	0.01	0.031	0					0.52
8.500	0.00	0.01	0.031	0					0.51
8.583	0.00	0.01	0.031	0					0.51
8.667	0.00	0.01	0.031	0					0.51
8.750	0.00	0.01	0.031	0					0.51
8.833	0.00	0.01	0.031	0					0.51
8.917	0.00	0.00	0.031	0					0.51
9.000	0.00	0.00	0.031	0					0.51
9.083	0.00	0.00	0.031	0					0.51
9.167	0.00	0.00	0.031	0					0.51
9.250	0.00	0.00	0.031	0					0.51
9.333	0.00	0.00	0.031	0					0.51
9.417	0.00	0.00	0.031	0					0.51
9.500	0.00	0.00	0.031	0					0.51
9.583	0.00	0.00	0.031	0					0.51
9.667	0.00	0.00	0.031	0					0.51
9.750	0.00	0.00	0.031	0					0.51
9.833	0.00	0.00	0.031	0					0.51
9.917	0.00	0.00	0.031	0					0.51
10.000	0.00	0.00	0.031	0					0.51
10.083	0.00	0.00	0.031	0					0.51
10.167	0.00	0.00	0.030	0					0.51
10.250	0.00	0.00	0.030	0					0.51
10.333	0.00	0.00	0.030	0					0.51
10.417	0.00	0.00	0.030	0					0.51
10.500	0.00	0.00	0.030	0					0.51
10.583	0.00	0.00	0.030	0					0.51
10.667	0.00	0.00	0.030	0					0.51
10.750	0.00	0.00	0.030	0					0.51
10.833	0.00	0.00	0.030	0					0.51
10.917	0.00	0.00	0.030	0					0.50
11.000	0.00	0.00	0.030	0					0.50
11.083	0.00	0.00	0.030	0					0.50
11.167	0.00	0.00	0.030	0					0.50
11.250	0.00	0.00	0.030	0					0.50
11.333	0.00	0.00	0.030	0					0.50
11.417	0.00	0.00	0.030	0					0.50
11.500	0.00	0.00	0.030	0					0.50
11.583	0.00	0.00	0.030	0					0.50
11.667	0.00	0.00	0.030	0					0.50
11.750	0.00	0.00	0.030	0					0.50
11.833	0.00	0.00	0.030	0					0.50
11.917	0.00	0.00	0.030	0					0.50
12.000	0.00	0.00	0.030	0					0.50
12.083	0.00	0.00	0.030	0					0.50
12.167	0.00	0.00	0.030	0					0.50
12.250	0.00	0.00	0.030	0					0.50
12.333	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 148

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.180 (CFS)

Total volume = 0.036 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 3 5YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH35.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.273 (CFS)
Total volume = 0.103 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.3	0.64	0.95	1.27	Depth (Ft.)
0.083	0.13	0.00	0.000	0	I				0.01
0.167	0.19	0.00	0.002	0	I				0.03
0.250	0.17	0.00	0.003	0	I				0.05
0.333	0.20	0.00	0.004	0	I				0.07
0.417	0.22	0.00	0.005	0	I				0.09
0.500	0.25	0.00	0.007	0	I				0.12
0.583	0.23	0.00	0.009	0	I				0.15
0.667	0.25	0.00	0.010	0	I				0.17
0.750	0.26	0.00	0.012	0	I				0.20
0.833	0.23	0.00	0.014	0	I				0.23
0.917	0.23	0.00	0.015	0	I				0.26
1.000	0.25	0.00	0.017	0	I				0.29
1.083	0.30	0.00	0.019	0	I				0.32
1.167	0.32	0.00	0.021	0	I				0.35
1.250	0.32	0.00	0.023	0	I				0.39
1.333	0.30	0.00	0.026	0	I				0.43
1.417	0.35	0.00	0.028	0	I				0.46
1.500	0.39	0.00	0.030	0	I				0.50
1.583	0.36	0.02	0.033	0	I				0.54
1.667	0.38	0.03	0.035	0	I				0.58
1.750	0.45	0.04	0.038	0	I				0.61
1.833	0.46	0.06	0.041	0	I				0.65
1.917	0.43	0.07	0.043	0	I				0.69
2.000	0.43	0.09	0.046	0	I				0.72
2.083	0.45	0.10	0.048	0	I				0.76
2.167	0.56	0.12	0.051	0	I	I			0.80
2.250	0.70	0.14	0.054	0	I	I			0.85
2.333	0.58	0.16	0.058	0	I	I			0.90
2.417	0.89	0.18	0.062	0	I	I	I		0.95
2.500	1.13	0.20	0.067	0	I	I	I		1.03
2.583	1.27	0.20	0.074	0	I	I	I	I	1.11
2.667	1.04	0.20	0.081	0	I	I	I	I	1.19
2.750	0.48	0.20	0.085	0	I	I	I	I	1.24
2.833	0.27	0.20	0.086	0	I	I	I	I	1.26
2.917	0.26	0.20	0.086	0	I	I	I	I	1.26
3.000	0.14	0.20	0.086	0	I	I	I	I	1.26
3.083	0.03	0.20	0.086	I	0	I	I	I	1.25
3.167	0.00	0.20	0.084	I	0	I	I	I	1.24
3.250	0.00	0.20	0.083	I	0	I	I	I	1.22
3.333	0.00	0.20	0.082	I	0	I	I	I	1.20
3.417	0.00	0.20	0.080	I	0	I	I	I	1.19
3.500	0.00	0.20	0.079	I	0	I	I	I	1.17
3.583	0.00	0.20	0.078	I	0	I	I	I	1.15
3.667	0.00	0.20	0.076	I	0	I	I	I	1.14
3.750	0.00	0.20	0.075	I	0	I	I	I	1.12
3.833	0.00	0.20	0.074	I	0	I	I	I	1.11
3.917	0.00	0.20	0.072	I	0	I	I	I	1.09
4.000	0.00	0.20	0.071	I	0	I	I	I	1.07

4.083	0.00	0.20	0.070	I	0					1.06
4.167	0.00	0.20	0.068	I	0					1.04
4.250	0.00	0.20	0.067	I	0					1.02
4.333	0.00	0.20	0.066	I	0					1.01
4.417	0.00	0.19	0.064	I	0					0.99
4.500	0.00	0.18	0.063	I	0					0.97
4.583	0.00	0.18	0.062	I	0					0.95
4.667	0.00	0.17	0.060	I	0					0.93
4.750	0.00	0.16	0.059	I	0					0.92
4.833	0.00	0.16	0.058	I	0					0.90
4.917	0.00	0.15	0.057	I	0					0.89
5.000	0.00	0.15	0.056	I	0					0.87
5.083	0.00	0.14	0.055	I	0					0.86
5.167	0.00	0.14	0.054	I	0					0.84
5.250	0.00	0.13	0.053	I	0					0.83
5.333	0.00	0.13	0.052	I	0					0.82
5.417	0.00	0.12	0.051	I	0					0.81
5.500	0.00	0.12	0.051	I	0					0.80
5.583	0.00	0.11	0.050	I	0					0.78
5.667	0.00	0.11	0.049	I	0					0.77
5.750	0.00	0.10	0.048	I	0					0.76
5.833	0.00	0.10	0.048	I	0					0.75
5.917	0.00	0.10	0.047	I	0					0.74
6.000	0.00	0.09	0.046	I	0					0.73
6.083	0.00	0.09	0.046	I	0					0.73
6.167	0.00	0.09	0.045	I	0					0.72
6.250	0.00	0.08	0.045	I	0					0.71
6.333	0.00	0.08	0.044	IO						0.70
6.417	0.00	0.08	0.044	IO						0.69
6.500	0.00	0.07	0.043	IO						0.69
6.583	0.00	0.07	0.043	IO						0.68
6.667	0.00	0.07	0.042	IO						0.67
6.750	0.00	0.06	0.042	IO						0.67
6.833	0.00	0.06	0.041	IO						0.66
6.917	0.00	0.06	0.041	IO						0.65
7.000	0.00	0.06	0.040	IO						0.65
7.083	0.00	0.06	0.040	IO						0.64
7.167	0.00	0.05	0.040	IO						0.64
7.250	0.00	0.05	0.039	IO						0.63
7.333	0.00	0.05	0.039	IO						0.63
7.417	0.00	0.05	0.039	IO						0.62
7.500	0.00	0.05	0.038	IO						0.62
7.583	0.00	0.04	0.038	IO						0.61
7.667	0.00	0.04	0.038	IO						0.61
7.750	0.00	0.04	0.037	IO						0.60
7.833	0.00	0.04	0.037	0						0.60
7.917	0.00	0.04	0.037	0						0.60
8.000	0.00	0.04	0.036	0						0.59
8.083	0.00	0.04	0.036	0						0.59
8.167	0.00	0.03	0.036	0						0.59

8.250	0.00	0.03	0.036	0					0.58
8.333	0.00	0.03	0.036	0					0.58
8.417	0.00	0.03	0.035	0					0.58
8.500	0.00	0.03	0.035	0					0.57
8.583	0.00	0.03	0.035	0					0.57
8.667	0.00	0.03	0.035	0					0.57
8.750	0.00	0.03	0.035	0					0.57
8.833	0.00	0.02	0.034	0					0.56
8.917	0.00	0.02	0.034	0					0.56
9.000	0.00	0.02	0.034	0					0.56
9.083	0.00	0.02	0.034	0					0.56
9.167	0.00	0.02	0.034	0					0.55
9.250	0.00	0.02	0.034	0					0.55
9.333	0.00	0.02	0.033	0					0.55
9.417	0.00	0.02	0.033	0					0.55
9.500	0.00	0.02	0.033	0					0.55
9.583	0.00	0.02	0.033	0					0.54
9.667	0.00	0.02	0.033	0					0.54
9.750	0.00	0.02	0.033	0					0.54
9.833	0.00	0.02	0.033	0					0.54
9.917	0.00	0.01	0.033	0					0.54
10.000	0.00	0.01	0.033	0					0.54
10.083	0.00	0.01	0.032	0					0.54
10.167	0.00	0.01	0.032	0					0.53
10.250	0.00	0.01	0.032	0					0.53
10.333	0.00	0.01	0.032	0					0.53
10.417	0.00	0.01	0.032	0					0.53
10.500	0.00	0.01	0.032	0					0.53
10.583	0.00	0.01	0.032	0					0.53
10.667	0.00	0.01	0.032	0					0.53
10.750	0.00	0.01	0.032	0					0.53
10.833	0.00	0.01	0.032	0					0.52
10.917	0.00	0.01	0.032	0					0.52
11.000	0.00	0.01	0.032	0					0.52
11.083	0.00	0.01	0.032	0					0.52
11.167	0.00	0.01	0.031	0					0.52
11.250	0.00	0.01	0.031	0					0.52
11.333	0.00	0.01	0.031	0					0.52
11.417	0.00	0.01	0.031	0					0.52
11.500	0.00	0.01	0.031	0					0.52
11.583	0.00	0.01	0.031	0					0.52
11.667	0.00	0.01	0.031	0					0.52
11.750	0.00	0.01	0.031	0					0.52
11.833	0.00	0.01	0.031	0					0.52
11.917	0.00	0.01	0.031	0					0.52
12.000	0.00	0.01	0.031	0					0.51
12.083	0.00	0.01	0.031	0					0.51
12.167	0.00	0.01	0.031	0					0.51
12.250	0.00	0.01	0.031	0					0.51
12.333	0.00	0.00	0.031	0					0.51

12.417	0.00	0.00	0.031	0				0.51
12.500	0.00	0.00	0.031	0				0.51
12.583	0.00	0.00	0.031	0				0.51
12.667	0.00	0.00	0.031	0				0.51
12.750	0.00	0.00	0.031	0				0.51
12.833	0.00	0.00	0.031	0				0.51
12.917	0.00	0.00	0.031	0				0.51
13.000	0.00	0.00	0.031	0				0.51
13.083	0.00	0.00	0.031	0				0.51
13.167	0.00	0.00	0.031	0				0.51
13.250	0.00	0.00	0.031	0				0.51
13.333	0.00	0.00	0.031	0				0.51
13.417	0.00	0.00	0.031	0				0.51
13.500	0.00	0.00	0.031	0				0.51
13.583	0.00	0.00	0.030	0				0.51
13.667	0.00	0.00	0.030	0				0.51
13.750	0.00	0.00	0.030	0				0.51
13.833	0.00	0.00	0.030	0				0.51
13.917	0.00	0.00	0.030	0				0.51
14.000	0.00	0.00	0.030	0				0.51
14.083	0.00	0.00	0.030	0				0.51
14.167	0.00	0.00	0.030	0				0.51
14.250	0.00	0.00	0.030	0				0.51
14.333	0.00	0.00	0.030	0				0.50
14.417	0.00	0.00	0.030	0				0.50
14.500	0.00	0.00	0.030	0				0.50
14.583	0.00	0.00	0.030	0				0.50
14.667	0.00	0.00	0.030	0				0.50
14.750	0.00	0.00	0.030	0				0.50
14.833	0.00	0.00	0.030	0				0.50
14.917	0.00	0.00	0.030	0				0.50
15.000	0.00	0.00	0.030	0				0.50
15.083	0.00	0.00	0.030	0				0.50
15.167	0.00	0.00	0.030	0				0.50
15.250	0.00	0.00	0.030	0				0.50
15.333	0.00	0.00	0.030	0				0.50
15.417	0.00	0.00	0.030	0				0.50
15.500	0.00	0.00	0.030	0				0.50
15.583	0.00	0.00	0.030	0				0.50
15.667	0.00	0.00	0.030	0				0.50
15.750	0.00	0.00	0.030	0				0.50
15.833	0.00	0.00	0.030	0				0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 190

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.073 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 3 5YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH65.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.166 (CFS)
Total volume = 0.140 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.3	0.58	0.87	1.17	Depth (Ft.)
0.083	0.07	0.00	0.000	OI					0.00
0.167	0.11	0.00	0.001	0 I					0.01
0.250	0.12	0.00	0.002	0 I					0.03
0.333	0.12	0.00	0.003	0 I					0.04
0.417	0.12	0.00	0.003	0 I					0.06
0.500	0.13	0.00	0.004	0 I					0.07
0.583	0.14	0.00	0.005	0 I					0.09
0.667	0.14	0.00	0.006	0 I					0.10
0.750	0.14	0.00	0.007	0 I					0.12
0.833	0.14	0.00	0.008	0 I					0.13
0.917	0.14	0.00	0.009	0 I					0.15
1.000	0.15	0.00	0.010	0 I					0.17
1.083	0.16	0.00	0.011	0 I					0.19
1.167	0.16	0.00	0.012	0 I					0.20
1.250	0.16	0.00	0.013	0 I					0.22
1.333	0.16	0.00	0.014	0 I					0.24
1.417	0.16	0.00	0.016	0 I					0.26
1.500	0.16	0.00	0.017	0 I					0.28
1.583	0.16	0.00	0.018	0 I					0.30
1.667	0.16	0.00	0.019	0 I					0.31
1.750	0.16	0.00	0.020	0 I					0.33
1.833	0.16	0.00	0.021	0 I					0.35
1.917	0.16	0.00	0.022	0 I					0.37
2.000	0.17	0.00	0.023	0 I					0.39
2.083	0.17	0.00	0.025	0 I					0.41
2.167	0.17	0.00	0.026	0 I					0.43
2.250	0.18	0.00	0.027	0 I					0.45
2.333	0.18	0.00	0.028	0 I					0.47
2.417	0.18	0.00	0.029	0 I					0.49
2.500	0.18	0.00	0.031	0 I					0.51
2.583	0.18	0.01	0.032	0 I					0.53
2.667	0.18	0.02	0.033	0 I					0.54
2.750	0.19	0.02	0.034	0 I					0.56
2.833	0.20	0.03	0.035	0 I					0.58
2.917	0.20	0.04	0.037	0 I					0.59
3.000	0.20	0.04	0.038	0 I					0.61
3.083	0.20	0.05	0.039	0 I					0.62
3.167	0.21	0.05	0.040	0 I					0.64
3.250	0.22	0.06	0.041	0 I					0.66
3.333	0.22	0.07	0.042	0 I					0.67
3.417	0.23	0.07	0.043	0 I					0.69
3.500	0.26	0.08	0.044	0 I					0.70
3.583	0.28	0.09	0.045	0 I					0.72
3.667	0.28	0.09	0.047	0 I					0.74
3.750	0.30	0.10	0.048	0 I					0.76
3.833	0.30	0.11	0.049	0 I					0.78
3.917	0.32	0.12	0.051	0 I					0.80
4.000	0.32	0.12	0.052	0 I					0.82

4.083	0.34	0.13	0.053	0	I				0.84
4.167	0.36	0.14	0.055	0	I				0.86
4.250	0.38	0.15	0.056	0	I				0.88
4.333	0.40	0.16	0.058	0	I				0.90
4.417	0.42	0.17	0.060	0	I				0.92
4.500	0.42	0.18	0.061	0	I				0.95
4.583	0.44	0.19	0.063	0	I				0.97
4.667	0.46	0.20	0.065	0	I				1.00
4.750	0.48	0.20	0.067	0	I				1.02
4.833	0.48	0.20	0.069	0	I				1.05
4.917	0.50	0.20	0.071	0	I				1.07
5.000	0.52	0.20	0.073	0	I				1.10
5.083	0.59	0.20	0.075	0	I				1.13
5.167	0.70	0.20	0.078	0		I			1.16
5.250	0.78	0.20	0.082	0		I			1.21
5.333	0.86	0.20	0.086	0		I			1.26
5.417	0.97	0.20	0.091	0			I		1.32
5.500	1.17	0.20	0.097	0				I	1.40
5.583	0.65	0.20	0.102	0		I			1.46
5.667	0.24	0.20	0.104	0	I				1.48
5.750	0.14	0.20	0.104	I	0				1.48
5.833	0.11	0.20	0.104	I	0				1.47
5.917	0.07	0.20	0.103	I	0				1.46
6.000	0.05	0.20	0.102	I	0				1.45
6.083	0.01	0.20	0.101	I	0				1.44
6.167	0.00	0.20	0.099	I	0				1.42
6.250	0.00	0.20	0.098	I	0				1.40
6.333	0.00	0.20	0.097	I	0				1.39
6.417	0.00	0.20	0.095	I	0				1.37
6.500	0.00	0.20	0.094	I	0				1.35
6.583	0.00	0.20	0.093	I	0				1.34
6.667	0.00	0.20	0.091	I	0				1.32
6.750	0.00	0.20	0.090	I	0				1.30
6.833	0.00	0.20	0.089	I	0				1.29
6.917	0.00	0.20	0.087	I	0				1.27
7.000	0.00	0.20	0.086	I	0				1.25
7.083	0.00	0.20	0.085	I	0				1.24
7.167	0.00	0.20	0.083	I	0				1.22
7.250	0.00	0.20	0.082	I	0				1.20
7.333	0.00	0.20	0.080	I	0				1.19
7.417	0.00	0.20	0.079	I	0				1.17
7.500	0.00	0.20	0.078	I	0				1.16
7.583	0.00	0.20	0.076	I	0				1.14
7.667	0.00	0.20	0.075	I	0				1.12
7.750	0.00	0.20	0.074	I	0				1.11
7.833	0.00	0.20	0.072	I	0				1.09
7.917	0.00	0.20	0.071	I	0				1.07
8.000	0.00	0.20	0.070	I	0				1.06
8.083	0.00	0.20	0.068	I	0				1.04
8.167	0.00	0.20	0.067	I	0				1.02

8.250	0.00	0.20	0.066	I	0					1.01
8.333	0.00	0.19	0.064	I	0					0.99
8.417	0.00	0.18	0.063	I	0					0.97
8.500	0.00	0.18	0.062	I	0					0.95
8.583	0.00	0.17	0.060	I	0					0.94
8.667	0.00	0.16	0.059	I	0					0.92
8.750	0.00	0.16	0.058	I	0					0.90
8.833	0.00	0.15	0.057	I	0					0.89
8.917	0.00	0.15	0.056	I	0					0.87
9.000	0.00	0.14	0.055	I	0					0.86
9.083	0.00	0.14	0.054	I	0					0.85
9.167	0.00	0.13	0.053	I	0					0.83
9.250	0.00	0.13	0.052	I	0					0.82
9.333	0.00	0.12	0.052	I	0					0.81
9.417	0.00	0.12	0.051	I	0					0.80
9.500	0.00	0.11	0.050	I	0					0.78
9.583	0.00	0.11	0.049	I	0					0.77
9.667	0.00	0.10	0.048	I	0					0.76
9.750	0.00	0.10	0.048	I	0					0.75
9.833	0.00	0.10	0.047	I	0					0.74
9.917	0.00	0.09	0.046	I	0					0.73
10.000	0.00	0.09	0.046	I	0					0.73
10.083	0.00	0.09	0.045	I	0					0.72
10.167	0.00	0.08	0.045	I	0					0.71
10.250	0.00	0.08	0.044	I	0					0.70
10.333	0.00	0.08	0.044	I	0					0.69
10.417	0.00	0.07	0.043	I	0					0.69
10.500	0.00	0.07	0.043	IO						0.68
10.583	0.00	0.07	0.042	IO						0.67
10.667	0.00	0.07	0.042	IO						0.67
10.750	0.00	0.06	0.041	IO						0.66
10.833	0.00	0.06	0.041	IO						0.65
10.917	0.00	0.06	0.040	IO						0.65
11.000	0.00	0.06	0.040	IO						0.64
11.083	0.00	0.05	0.040	IO						0.64
11.167	0.00	0.05	0.039	IO						0.63
11.250	0.00	0.05	0.039	IO						0.63
11.333	0.00	0.05	0.039	IO						0.62
11.417	0.00	0.05	0.038	IO						0.62
11.500	0.00	0.04	0.038	IO						0.61
11.583	0.00	0.04	0.038	IO						0.61
11.667	0.00	0.04	0.037	IO						0.60
11.750	0.00	0.04	0.037	IO						0.60
11.833	0.00	0.04	0.037	IO						0.60
11.917	0.00	0.04	0.037	IO						0.59
12.000	0.00	0.04	0.036	0						0.59
12.083	0.00	0.03	0.036	0						0.59
12.167	0.00	0.03	0.036	0						0.58
12.250	0.00	0.03	0.036	0						0.58
12.333	0.00	0.03	0.035	0						0.58

12.417	0.00	0.03	0.035	0					0.57
12.500	0.00	0.03	0.035	0					0.57
12.583	0.00	0.03	0.035	0					0.57
12.667	0.00	0.03	0.035	0					0.57
12.750	0.00	0.02	0.034	0					0.56
12.833	0.00	0.02	0.034	0					0.56
12.917	0.00	0.02	0.034	0					0.56
13.000	0.00	0.02	0.034	0					0.56
13.083	0.00	0.02	0.034	0					0.55
13.167	0.00	0.02	0.034	0					0.55
13.250	0.00	0.02	0.034	0					0.55
13.333	0.00	0.02	0.033	0					0.55
13.417	0.00	0.02	0.033	0					0.55
13.500	0.00	0.02	0.033	0					0.54
13.583	0.00	0.02	0.033	0					0.54
13.667	0.00	0.02	0.033	0					0.54
13.750	0.00	0.02	0.033	0					0.54
13.833	0.00	0.01	0.033	0					0.54
13.917	0.00	0.01	0.033	0					0.54
14.000	0.00	0.01	0.032	0					0.54
14.083	0.00	0.01	0.032	0					0.53
14.167	0.00	0.01	0.032	0					0.53
14.250	0.00	0.01	0.032	0					0.53
14.333	0.00	0.01	0.032	0					0.53
14.417	0.00	0.01	0.032	0					0.53
14.500	0.00	0.01	0.032	0					0.53
14.583	0.00	0.01	0.032	0					0.53
14.667	0.00	0.01	0.032	0					0.53
14.750	0.00	0.01	0.032	0					0.52
14.833	0.00	0.01	0.032	0					0.52
14.917	0.00	0.01	0.032	0					0.52
15.000	0.00	0.01	0.032	0					0.52
15.083	0.00	0.01	0.031	0					0.52
15.167	0.00	0.01	0.031	0					0.52
15.250	0.00	0.01	0.031	0					0.52
15.333	0.00	0.01	0.031	0					0.52
15.417	0.00	0.01	0.031	0					0.52
15.500	0.00	0.01	0.031	0					0.52
15.583	0.00	0.01	0.031	0					0.52
15.667	0.00	0.01	0.031	0					0.52
15.750	0.00	0.01	0.031	0					0.52
15.833	0.00	0.01	0.031	0					0.52
15.917	0.00	0.01	0.031	0					0.51
16.000	0.00	0.01	0.031	0					0.51
16.083	0.00	0.01	0.031	0					0.51
16.167	0.00	0.01	0.031	0					0.51
16.250	0.00	0.00	0.031	0					0.51
16.333	0.00	0.00	0.031	0					0.51
16.417	0.00	0.00	0.031	0					0.51
16.500	0.00	0.00	0.031	0					0.51

16.583	0.00	0.00	0.031	0					0.51
16.667	0.00	0.00	0.031	0					0.51
16.750	0.00	0.00	0.031	0					0.51
16.833	0.00	0.00	0.031	0					0.51
16.917	0.00	0.00	0.031	0					0.51
17.000	0.00	0.00	0.031	0					0.51
17.083	0.00	0.00	0.031	0					0.51
17.167	0.00	0.00	0.031	0					0.51
17.250	0.00	0.00	0.031	0					0.51
17.333	0.00	0.00	0.031	0					0.51
17.417	0.00	0.00	0.031	0					0.51
17.500	0.00	0.00	0.030	0					0.51
17.583	0.00	0.00	0.030	0					0.51
17.667	0.00	0.00	0.030	0					0.51
17.750	0.00	0.00	0.030	0					0.51
17.833	0.00	0.00	0.030	0					0.51
17.917	0.00	0.00	0.030	0					0.51
18.000	0.00	0.00	0.030	0					0.51
18.083	0.00	0.00	0.030	0					0.51
18.167	0.00	0.00	0.030	0					0.51
18.250	0.00	0.00	0.030	0					0.50
18.333	0.00	0.00	0.030	0					0.50
18.417	0.00	0.00	0.030	0					0.50
18.500	0.00	0.00	0.030	0					0.50
18.583	0.00	0.00	0.030	0					0.50
18.667	0.00	0.00	0.030	0					0.50
18.750	0.00	0.00	0.030	0					0.50
18.833	0.00	0.00	0.030	0					0.50
18.917	0.00	0.00	0.030	0					0.50
19.000	0.00	0.00	0.030	0					0.50
19.083	0.00	0.00	0.030	0					0.50
19.167	0.00	0.00	0.030	0					0.50
19.250	0.00	0.00	0.030	0					0.50
19.333	0.00	0.00	0.030	0					0.50
19.417	0.00	0.00	0.030	0					0.50
19.500	0.00	0.00	0.030	0					0.50
19.583	0.00	0.00	0.030	0					0.50
19.667	0.00	0.00	0.030	0					0.50
19.750	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 237

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.110 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 3 5YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH245.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.398 (CFS)
Total volume = 0.242 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I' = unit inflow; 'O' = outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.1	0.20	0.30	0.40	Depth (Ft.)
0.083	0.02	0.00	0.000	OI					0.00
0.167	0.02	0.00	0.000	OI					0.00
0.250	0.02	0.00	0.000	OI					0.01
0.333	0.03	0.00	0.001	O I					0.01
0.417	0.04	0.00	0.001	O I					0.01
0.500	0.04	0.00	0.001	O I					0.02
0.583	0.04	0.00	0.001	O I					0.02
0.667	0.04	0.00	0.001	O I					0.02
0.750	0.04	0.00	0.002	O I					0.03
0.833	0.04	0.00	0.002	O I					0.03
0.917	0.05	0.00	0.002	O I					0.04
1.000	0.05	0.00	0.003	O I					0.04
1.083	0.04	0.00	0.003	O I					0.05
1.167	0.04	0.00	0.003	O I					0.05
1.250	0.04	0.00	0.003	O I					0.06
1.333	0.04	0.00	0.004	O I					0.06
1.417	0.04	0.00	0.004	O I					0.07
1.500	0.04	0.00	0.004	O I					0.07
1.583	0.04	0.00	0.004	O I					0.07
1.667	0.04	0.00	0.005	O I					0.08
1.750	0.04	0.00	0.005	O I					0.08
1.833	0.04	0.00	0.005	O I					0.09
1.917	0.05	0.00	0.005	O I					0.09
2.000	0.05	0.00	0.006	O I					0.10
2.083	0.05	0.00	0.006	O I					0.10
2.167	0.05	0.00	0.006	O I					0.11
2.250	0.05	0.00	0.007	O I					0.11
2.333	0.05	0.00	0.007	O I					0.12
2.417	0.05	0.00	0.007	O I					0.12
2.500	0.05	0.00	0.008	O I					0.13
2.583	0.05	0.00	0.008	O I					0.13
2.667	0.06	0.00	0.008	O I					0.14
2.750	0.06	0.00	0.009	O I					0.15
2.833	0.06	0.00	0.009	O I					0.15
2.917	0.06	0.00	0.010	O I					0.16
3.000	0.06	0.00	0.010	O I					0.17
3.083	0.06	0.00	0.010	O I					0.17
3.167	0.06	0.00	0.011	O I					0.18
3.250	0.06	0.00	0.011	O I					0.19
3.333	0.06	0.00	0.012	O I					0.19
3.417	0.06	0.00	0.012	O I					0.20
3.500	0.06	0.00	0.013	O I					0.21
3.583	0.06	0.00	0.013	O I					0.22
3.667	0.06	0.00	0.013	O I					0.22
3.750	0.06	0.00	0.014	O I					0.23
3.833	0.07	0.00	0.014	O I					0.24
3.917	0.07	0.00	0.015	O I					0.24
4.000	0.07	0.00	0.015	O I					0.25

4.083	0.07	0.00	0.016	0	I					0.26
4.167	0.07	0.00	0.016	0	I					0.27
4.250	0.07	0.00	0.017	0	I					0.28
4.333	0.08	0.00	0.017	0	I					0.28
4.417	0.08	0.00	0.018	0	I					0.29
4.500	0.08	0.00	0.018	0	I					0.30
4.583	0.08	0.00	0.019	0	I					0.31
4.667	0.08	0.00	0.019	0	I					0.32
4.750	0.08	0.00	0.020	0	I					0.33
4.833	0.09	0.00	0.020	0	I					0.34
4.917	0.09	0.00	0.021	0	I					0.35
5.000	0.09	0.00	0.022	0	I					0.36
5.083	0.08	0.00	0.022	0	I					0.37
5.167	0.07	0.00	0.023	0	I					0.38
5.250	0.07	0.00	0.023	0	I					0.39
5.333	0.08	0.00	0.024	0	I					0.40
5.417	0.08	0.00	0.024	0	I					0.41
5.500	0.08	0.00	0.025	0	I					0.42
5.583	0.09	0.00	0.026	0	I					0.43
5.667	0.09	0.00	0.026	0	I					0.44
5.750	0.09	0.00	0.027	0	I					0.45
5.833	0.09	0.00	0.027	0	I					0.46
5.917	0.09	0.00	0.028	0	I					0.47
6.000	0.09	0.00	0.029	0	I					0.48
6.083	0.10	0.00	0.029	0	I					0.49
6.167	0.11	0.00	0.030	0	I					0.50
6.250	0.11	0.00	0.031	0	I					0.51
6.333	0.11	0.01	0.032	0	I					0.52
6.417	0.11	0.01	0.032	0	I					0.53
6.500	0.11	0.02	0.033	0	I					0.54
6.583	0.11	0.02	0.033	0	I					0.55
6.667	0.12	0.02	0.034	0	I					0.56
6.750	0.12	0.03	0.035	0	I					0.57
6.833	0.12	0.03	0.035	0	I					0.58
6.917	0.12	0.03	0.036	0	I					0.58
7.000	0.12	0.04	0.037	0	I					0.59
7.083	0.12	0.04	0.037	0	I					0.60
7.167	0.12	0.04	0.038	0	I					0.61
7.250	0.12	0.05	0.038	0	I					0.62
7.333	0.13	0.05	0.039	0	I					0.62
7.417	0.13	0.05	0.039	0	I					0.63
7.500	0.13	0.05	0.040	0	I					0.64
7.583	0.14	0.06	0.040	0	I					0.65
7.667	0.14	0.06	0.041	0	I					0.65
7.750	0.14	0.06	0.041	0	I					0.66
7.833	0.15	0.07	0.042	0	I					0.67
7.917	0.15	0.07	0.042	0	I					0.68
8.000	0.15	0.07	0.043	0	I					0.69
8.083	0.17	0.08	0.044	0	I					0.69
8.167	0.18	0.08	0.044	0	I					0.70

8.250	0.18	0.08	0.045	0	I		0.71
8.333	0.18	0.09	0.045	0	I		0.72
8.417	0.18	0.09	0.046	0	I		0.73
8.500	0.18	0.09	0.047	0	I		0.74
8.583	0.18	0.10	0.047	0	I		0.75
8.667	0.19	0.10	0.048	0	I		0.75
8.750	0.19	0.10	0.048	0	I		0.76
8.833	0.20	0.11	0.049	0	I		0.77
8.917	0.20	0.11	0.050	0	I		0.78
9.000	0.20	0.11	0.050	0	I		0.79
9.083	0.22	0.12	0.051	0	I		0.80
9.167	0.22	0.12	0.052	0	I		0.81
9.250	0.22	0.12	0.052	0	I		0.82
9.333	0.23	0.13	0.053	0	I		0.83
9.417	0.23	0.13	0.054	0	I		0.84
9.500	0.23	0.14	0.054	0	I		0.85
9.583	0.24	0.14	0.055	0	I		0.86
9.667	0.25	0.14	0.056	0	I		0.87
9.750	0.25	0.15	0.056	0	I		0.88
9.833	0.25	0.15	0.057	0	I		0.89
9.917	0.26	0.16	0.058	0	I		0.90
10.000	0.26	0.16	0.058	0	I		0.91
10.083	0.20	0.16	0.059	0	I		0.91
10.167	0.18	0.16	0.059	0I			0.92
10.250	0.18	0.16	0.059	0I			0.92
10.333	0.18	0.16	0.059	0I			0.92
10.417	0.18	0.16	0.059	0I			0.92
10.500	0.18	0.17	0.059	0I			0.92
10.583	0.22	0.17	0.060	0	I		0.92
10.667	0.23	0.17	0.060	0	I		0.93
10.750	0.23	0.17	0.060	0	I		0.94
10.833	0.23	0.17	0.061	0	I		0.94
10.917	0.23	0.18	0.061	0	I		0.95
11.000	0.23	0.18	0.062	0	I		0.95
11.083	0.23	0.18	0.062	0	I		0.96
11.167	0.22	0.18	0.062	0	I		0.96
11.250	0.22	0.18	0.063	0	I		0.97
11.333	0.22	0.18	0.063	0	I		0.97
11.417	0.22	0.19	0.063	0	I		0.97
11.500	0.22	0.19	0.063	0	I		0.98
11.583	0.21	0.19	0.064	0I			0.98
11.667	0.20	0.19	0.064	0I			0.98
11.750	0.20	0.19	0.064	0I			0.98
11.833	0.21	0.19	0.064	0I			0.98
11.917	0.21	0.19	0.064	0I			0.99
12.000	0.21	0.19	0.064	0I			0.99
12.083	0.27	0.19	0.064	0	I		0.99
12.167	0.29	0.20	0.065	0	I		1.00
12.250	0.29	0.20	0.066	0	I		1.01
12.333	0.30	0.20	0.066	0	I		1.02

12.417	0.30	0.20	0.067		0	I	1.03
12.500	0.30	0.20	0.068		0	I	1.04
12.583	0.32	0.20	0.069		0	I	1.04
12.667	0.33	0.20	0.070		0	I	1.06
12.750	0.33	0.20	0.070		0	I	1.07
12.833	0.34	0.20	0.071		0	I	1.08
12.917	0.34	0.20	0.072		0	I	1.09
13.000	0.34	0.20	0.073		0	I	1.10
13.083	0.38	0.20	0.075		0	I	1.12
13.167	0.40	0.20	0.076		0	I	1.13
13.250	0.40	0.20	0.077		0	I	1.15
13.333	0.40	0.20	0.079		0	I	1.17
13.417	0.40	0.20	0.080		0	I	1.18
13.500	0.40	0.20	0.081		0	I	1.20
13.583	0.31	0.20	0.082		0	I	1.21
13.667	0.27	0.20	0.083		0	I	1.22
13.750	0.27	0.20	0.084		0	I	1.23
13.833	0.27	0.20	0.084		0	I	1.23
13.917	0.27	0.20	0.085		0	I	1.24
14.000	0.27	0.20	0.085		0	I	1.25
14.083	0.30	0.20	0.086		0	I	1.25
14.167	0.32	0.20	0.087		0	I	1.26
14.250	0.32	0.20	0.087		0	I	1.27
14.333	0.31	0.20	0.088		0	I	1.28
14.417	0.30	0.20	0.089		0	I	1.29
14.500	0.30	0.20	0.090		0	I	1.30
14.583	0.30	0.20	0.090		0	I	1.31
14.667	0.30	0.20	0.091		0	I	1.32
14.750	0.30	0.20	0.092		0	I	1.33
14.833	0.30	0.20	0.093		0	I	1.34
14.917	0.29	0.20	0.093		0	I	1.35
15.000	0.29	0.20	0.094		0	I	1.35
15.083	0.28	0.20	0.095		0	I	1.36
15.167	0.28	0.20	0.095		0	I	1.37
15.250	0.28	0.20	0.096		0	I	1.38
15.333	0.27	0.20	0.096		0	I	1.38
15.417	0.27	0.20	0.097		0	I	1.39
15.500	0.27	0.20	0.097		0	I	1.39
15.583	0.24	0.20	0.098		0	I	1.40
15.667	0.22	0.20	0.098		0	I	1.40
15.750	0.22	0.20	0.098		0	I	1.40
15.833	0.22	0.20	0.098		0	I	1.41
15.917	0.22	0.20	0.099		0	I	1.41
16.000	0.22	0.20	0.099		0	I	1.41
16.083	0.10	0.20	0.098	I	0		1.41
16.167	0.05	0.20	0.098	I	0		1.40
16.250	0.05	0.20	0.097	I	0		1.39
16.333	0.05	0.20	0.096	I	0		1.37
16.417	0.05	0.20	0.095	I	0		1.36
16.500	0.05	0.20	0.094	I	0		1.35

16.583	0.04	0.20	0.092	I	0	1.33
16.667	0.04	0.20	0.091	I	0	1.32
16.750	0.04	0.20	0.090	I	0	1.31
16.833	0.04	0.20	0.089	I	0	1.29
16.917	0.04	0.20	0.088	I	0	1.28
17.000	0.04	0.20	0.087	I	0	1.27
17.083	0.05	0.20	0.086	I	0	1.25
17.167	0.06	0.20	0.085	I	0	1.24
17.250	0.06	0.20	0.084	I	0	1.23
17.333	0.06	0.20	0.083	I	0	1.22
17.417	0.06	0.20	0.082	I	0	1.21
17.500	0.06	0.20	0.081	I	0	1.20
17.583	0.06	0.20	0.080	I	0	1.18
17.667	0.06	0.20	0.079	I	0	1.17
17.750	0.06	0.20	0.078	I	0	1.16
17.833	0.05	0.20	0.077	I	0	1.15
17.917	0.05	0.20	0.076	I	0	1.14
18.000	0.05	0.20	0.075	I	0	1.12
18.083	0.05	0.20	0.074	I	0	1.11
18.167	0.05	0.20	0.073	I	0	1.10
18.250	0.05	0.20	0.072	I	0	1.09
18.333	0.05	0.20	0.071	I	0	1.07
18.417	0.05	0.20	0.070	I	0	1.06
18.500	0.05	0.20	0.069	I	0	1.05
18.583	0.04	0.20	0.068	I	0	1.04
18.667	0.04	0.20	0.067	I	0	1.02
18.750	0.04	0.20	0.066	I	0	1.01
18.833	0.03	0.19	0.065	I	0	1.00
18.917	0.02	0.19	0.064	I	0	0.98
19.000	0.02	0.18	0.062	I	0	0.96
19.083	0.03	0.18	0.061	I	0	0.95
19.167	0.04	0.17	0.060	I	0	0.93
19.250	0.04	0.17	0.059	I	0	0.92
19.333	0.04	0.16	0.059	I	0	0.91
19.417	0.05	0.16	0.058	I	0	0.90
19.500	0.05	0.15	0.057	I	0	0.89
19.583	0.04	0.15	0.056	I	0	0.88
19.667	0.04	0.14	0.056	I	0	0.87
19.750	0.04	0.14	0.055	I	0	0.86
19.833	0.03	0.14	0.054	I	0	0.85
19.917	0.02	0.13	0.053	I	0	0.83
20.000	0.02	0.13	0.053	I	0	0.82
20.083	0.03	0.12	0.052	I	0	0.81
20.167	0.04	0.12	0.051	I	0	0.81
20.250	0.04	0.12	0.051	I	0	0.80
20.333	0.04	0.11	0.050	I	0	0.79
20.417	0.04	0.11	0.050	I	0	0.78
20.500	0.04	0.11	0.049	I	0	0.77
20.583	0.04	0.11	0.049	I	0	0.77
20.667	0.04	0.10	0.048	I	0	0.76

20.750	0.04	0.10	0.048	I	0				0.75
20.833	0.03	0.10	0.047	I	0				0.75
20.917	0.02	0.09	0.047	I	0				0.74
21.000	0.02	0.09	0.046	I	0				0.73
21.083	0.03	0.09	0.046	I	0				0.73
21.167	0.04	0.09	0.046	I	0				0.72
21.250	0.04	0.09	0.045	I	0				0.72
21.333	0.03	0.08	0.045	I	0				0.71
21.417	0.02	0.08	0.044	I	0				0.71
21.500	0.02	0.08	0.044	I	0				0.70
21.583	0.03	0.08	0.044	I	0				0.70
21.667	0.04	0.08	0.043	I	0				0.69
21.750	0.04	0.07	0.043	I	0				0.69
21.833	0.03	0.07	0.043	I	0				0.68
21.917	0.02	0.07	0.043	I	0				0.68
22.000	0.02	0.07	0.042	I	0				0.67
22.083	0.03	0.07	0.042	I	0				0.67
22.167	0.04	0.07	0.042	I	0				0.67
22.250	0.04	0.06	0.042	I	0				0.66
22.333	0.03	0.06	0.041	I	0				0.66
22.417	0.02	0.06	0.041	I	0				0.66
22.500	0.02	0.06	0.041	I	0				0.65
22.583	0.02	0.06	0.041	I	0				0.65
22.667	0.02	0.06	0.040	I	0				0.65
22.750	0.02	0.06	0.040	I	0				0.64
22.833	0.02	0.06	0.040	I	0				0.64
22.917	0.02	0.05	0.040	I	0				0.64
23.000	0.02	0.05	0.039	I	0				0.63
23.083	0.02	0.05	0.039	I	0				0.63
23.167	0.02	0.05	0.039	I	0				0.63
23.250	0.02	0.05	0.039	I	0				0.63
23.333	0.02	0.05	0.039	I	0				0.62
23.417	0.02	0.05	0.038	I	0				0.62
23.500	0.02	0.05	0.038	I	0				0.62
23.583	0.02	0.05	0.038	I	0				0.62
23.667	0.02	0.04	0.038	I	0				0.61
23.750	0.02	0.04	0.038	I	0				0.61
23.833	0.02	0.04	0.038	I	0				0.61
23.917	0.02	0.04	0.038	I	0				0.61
24.000	0.02	0.04	0.037	I	0				0.61
24.083	0.01	0.04	0.037	I	0				0.60
24.167	0.00	0.04	0.037	I	0				0.60
24.250	0.00	0.04	0.037	I	0				0.60
24.333	0.00	0.04	0.037	I	0				0.59
24.417	0.00	0.04	0.036	I	0				0.59
24.500	0.00	0.03	0.036	I	0				0.59
24.583	0.00	0.03	0.036	I	0				0.58
24.667	0.00	0.03	0.036	I	0				0.58
24.750	0.00	0.03	0.035	I	0				0.58
24.833	0.00	0.03	0.035	I	0				0.57

24.917	0.00	0.03	0.035	I 0					0.57
25.000	0.00	0.03	0.035	I 0					0.57
25.083	0.00	0.03	0.035	I 0					0.57
25.167	0.00	0.02	0.034	IO					0.56
25.250	0.00	0.02	0.034	IO					0.56
25.333	0.00	0.02	0.034	IO					0.56
25.417	0.00	0.02	0.034	IO					0.56
25.500	0.00	0.02	0.034	IO					0.55
25.583	0.00	0.02	0.034	IO					0.55
25.667	0.00	0.02	0.034	IO					0.55
25.750	0.00	0.02	0.033	IO					0.55
25.833	0.00	0.02	0.033	IO					0.55
25.917	0.00	0.02	0.033	IO					0.54
26.000	0.00	0.02	0.033	IO					0.54
26.083	0.00	0.02	0.033	IO					0.54
26.167	0.00	0.02	0.033	IO					0.54
26.250	0.00	0.02	0.033	IO					0.54
26.333	0.00	0.01	0.033	IO					0.54
26.417	0.00	0.01	0.032	IO					0.54
26.500	0.00	0.01	0.032	IO					0.53
26.583	0.00	0.01	0.032	IO					0.53
26.667	0.00	0.01	0.032	0					0.53
26.750	0.00	0.01	0.032	0					0.53
26.833	0.00	0.01	0.032	0					0.53
26.917	0.00	0.01	0.032	0					0.53
27.000	0.00	0.01	0.032	0					0.53
27.083	0.00	0.01	0.032	0					0.53
27.167	0.00	0.01	0.032	0					0.53
27.250	0.00	0.01	0.032	0					0.52
27.333	0.00	0.01	0.032	0					0.52
27.417	0.00	0.01	0.032	0					0.52
27.500	0.00	0.01	0.032	0					0.52
27.583	0.00	0.01	0.031	0					0.52
27.667	0.00	0.01	0.031	0					0.52
27.750	0.00	0.01	0.031	0					0.52
27.833	0.00	0.01	0.031	0					0.52
27.917	0.00	0.01	0.031	0					0.52
28.000	0.00	0.01	0.031	0					0.52
28.083	0.00	0.01	0.031	0					0.52
28.167	0.00	0.01	0.031	0					0.52
28.250	0.00	0.01	0.031	0					0.52
28.333	0.00	0.01	0.031	0					0.51
28.417	0.00	0.01	0.031	0					0.51
28.500	0.00	0.01	0.031	0					0.51
28.583	0.00	0.01	0.031	0					0.51
28.667	0.00	0.00	0.031	0					0.51
28.750	0.00	0.00	0.031	0					0.51
28.833	0.00	0.00	0.031	0					0.51
28.917	0.00	0.00	0.031	0					0.51
29.000	0.00	0.00	0.031	0					0.51

29.083	0.00	0.00	0.031	0					0.51
29.167	0.00	0.00	0.031	0					0.51
29.250	0.00	0.00	0.031	0					0.51
29.333	0.00	0.00	0.031	0					0.51
29.417	0.00	0.00	0.031	0					0.51
29.500	0.00	0.00	0.031	0					0.51
29.583	0.00	0.00	0.031	0					0.51
29.667	0.00	0.00	0.031	0					0.51
29.750	0.00	0.00	0.031	0					0.51
29.833	0.00	0.00	0.031	0					0.51
29.917	0.00	0.00	0.030	0					0.51
30.000	0.00	0.00	0.030	0					0.51
30.083	0.00	0.00	0.030	0					0.51
30.167	0.00	0.00	0.030	0					0.51
30.250	0.00	0.00	0.030	0					0.51
30.333	0.00	0.00	0.030	0					0.51
30.417	0.00	0.00	0.030	0					0.51
30.500	0.00	0.00	0.030	0					0.51
30.583	0.00	0.00	0.030	0					0.51
30.667	0.00	0.00	0.030	0					0.50
30.750	0.00	0.00	0.030	0					0.50
30.833	0.00	0.00	0.030	0					0.50
30.917	0.00	0.00	0.030	0					0.50
31.000	0.00	0.00	0.030	0					0.50
31.083	0.00	0.00	0.030	0					0.50
31.167	0.00	0.00	0.030	0					0.50
31.250	0.00	0.00	0.030	0					0.50
31.333	0.00	0.00	0.030	0					0.50
31.417	0.00	0.00	0.030	0					0.50
31.500	0.00	0.00	0.030	0					0.50
31.583	0.00	0.00	0.030	0					0.50
31.667	0.00	0.00	0.030	0					0.50
31.750	0.00	0.00	0.030	0					0.50
31.833	0.00	0.00	0.030	0					0.50
31.917	0.00	0.00	0.030	0					0.50
32.000	0.00	0.00	0.030	0					0.50
32.083	0.00	0.00	0.030	0					0.50
32.167	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 386

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.212 (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

DMA 3 Proposed 10-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 3 10YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH110.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.831 (CFS)
Total volume = 0.084 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
 Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
 Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
 Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
 flow capacity is being calculated using depth = diameter
 Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
 Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
 Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

 Total number of inflow hydrograph intervals = 13
 Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.7	1.42	2.12	2.83	Depth (Ft.)
0.083	0.33	0.00	0.001	0	I				0.02
0.167	0.49	0.00	0.004	0	I				0.07
0.250	0.58	0.00	0.008	0	I				0.13
0.333	0.62	0.00	0.012	0	I				0.20
0.417	0.65	0.00	0.016	0	I				0.27
0.500	0.73	0.00	0.021	0	I				0.35
0.583	0.90	0.00	0.027	0	I				0.44
0.667	1.08	0.02	0.033	0	I				0.55
0.750	1.47	0.07	0.042	0	I				0.67
0.833	2.83	0.15	0.056	0				I	0.87
0.917	1.72	0.20	0.070	0		I			1.07
1.000	0.68	0.20	0.077	0	I				1.15
1.083	0.17	0.20	0.079	0	I				1.17
1.167	0.00	0.20	0.078	0					1.16
1.250	0.00	0.20	0.077	0					1.14
1.333	0.00	0.20	0.075	0					1.13
1.417	0.00	0.20	0.074	0					1.11
1.500	0.00	0.20	0.073	0					1.09
1.583	0.00	0.20	0.071	0					1.08
1.667	0.00	0.20	0.070	0					1.06
1.750	0.00	0.20	0.069	0					1.05
1.833	0.00	0.20	0.067	0					1.03
1.917	0.00	0.20	0.066	0					1.01
2.000	0.00	0.19	0.065	0					1.00
2.083	0.00	0.19	0.063	0					0.98
2.167	0.00	0.18	0.062	0					0.96
2.250	0.00	0.17	0.061	0					0.94
2.333	0.00	0.17	0.060	0					0.92
2.417	0.00	0.16	0.059	0					0.91
2.500	0.00	0.15	0.057	0					0.89
2.583	0.00	0.15	0.056	0					0.88
2.667	0.00	0.14	0.055	0					0.86
2.750	0.00	0.14	0.054	0					0.85
2.833	0.00	0.13	0.054	0					0.84
2.917	0.00	0.13	0.053	0					0.82
3.000	0.00	0.12	0.052	0					0.81
3.083	0.00	0.12	0.051	0					0.80
3.167	0.00	0.11	0.050	0					0.79
3.250	0.00	0.11	0.049	0					0.78
3.333	0.00	0.10	0.049	0					0.77
3.417	0.00	0.10	0.048	0					0.76
3.500	0.00	0.10	0.047	0					0.75
3.583	0.00	0.09	0.047	0					0.74
3.667	0.00	0.09	0.046	0					0.73
3.750	0.00	0.09	0.045	0					0.72
3.833	0.00	0.08	0.045	0					0.71
3.917	0.00	0.08	0.044	0					0.70
4.000	0.00	0.08	0.044	0					0.70

4.083	0.00	0.07	0.043	0				0.69
4.167	0.00	0.07	0.043	0				0.68
4.250	0.00	0.07	0.042	0				0.67
4.333	0.00	0.07	0.042	0				0.67
4.417	0.00	0.06	0.041	0				0.66
4.500	0.00	0.06	0.041	0				0.66
4.583	0.00	0.06	0.040	0				0.65
4.667	0.00	0.06	0.040	0				0.64
4.750	0.00	0.05	0.040	0				0.64
4.833	0.00	0.05	0.039	0				0.63
4.917	0.00	0.05	0.039	0				0.63
5.000	0.00	0.05	0.039	0				0.62
5.083	0.00	0.05	0.038	0				0.62
5.167	0.00	0.04	0.038	0				0.61
5.250	0.00	0.04	0.038	0				0.61
5.333	0.00	0.04	0.037	0				0.61
5.417	0.00	0.04	0.037	0				0.60
5.500	0.00	0.04	0.037	0				0.60
5.583	0.00	0.04	0.037	0				0.59
5.667	0.00	0.04	0.036	0				0.59
5.750	0.00	0.03	0.036	0				0.59
5.833	0.00	0.03	0.036	0				0.58
5.917	0.00	0.03	0.036	0				0.58
6.000	0.00	0.03	0.035	0				0.58
6.083	0.00	0.03	0.035	0				0.57
6.167	0.00	0.03	0.035	0				0.57
6.250	0.00	0.03	0.035	0				0.57
6.333	0.00	0.03	0.035	0				0.57
6.417	0.00	0.03	0.034	0				0.56
6.500	0.00	0.02	0.034	0				0.56
6.583	0.00	0.02	0.034	0				0.56
6.667	0.00	0.02	0.034	0				0.56
6.750	0.00	0.02	0.034	0				0.55
6.833	0.00	0.02	0.034	0				0.55
6.917	0.00	0.02	0.034	0				0.55
7.000	0.00	0.02	0.033	0				0.55
7.083	0.00	0.02	0.033	0				0.55
7.167	0.00	0.02	0.033	0				0.55
7.250	0.00	0.02	0.033	0				0.54
7.333	0.00	0.02	0.033	0				0.54
7.417	0.00	0.02	0.033	0				0.54
7.500	0.00	0.02	0.033	0				0.54
7.583	0.00	0.01	0.033	0				0.54
7.667	0.00	0.01	0.033	0				0.54
7.750	0.00	0.01	0.032	0				0.53
7.833	0.00	0.01	0.032	0				0.53
7.917	0.00	0.01	0.032	0				0.53
8.000	0.00	0.01	0.032	0				0.53
8.083	0.00	0.01	0.032	0				0.53
8.167	0.00	0.01	0.032	0				0.53

8.250	0.00	0.01	0.032	0					0.53
8.333	0.00	0.01	0.032	0					0.53
8.417	0.00	0.01	0.032	0					0.53
8.500	0.00	0.01	0.032	0					0.52
8.583	0.00	0.01	0.032	0					0.52
8.667	0.00	0.01	0.032	0					0.52
8.750	0.00	0.01	0.032	0					0.52
8.833	0.00	0.01	0.031	0					0.52
8.917	0.00	0.01	0.031	0					0.52
9.000	0.00	0.01	0.031	0					0.52
9.083	0.00	0.01	0.031	0					0.52
9.167	0.00	0.01	0.031	0					0.52
9.250	0.00	0.01	0.031	0					0.52
9.333	0.00	0.01	0.031	0					0.52
9.417	0.00	0.01	0.031	0					0.52
9.500	0.00	0.01	0.031	0					0.52
9.583	0.00	0.01	0.031	0					0.51
9.667	0.00	0.01	0.031	0					0.51
9.750	0.00	0.01	0.031	0					0.51
9.833	0.00	0.01	0.031	0					0.51
9.917	0.00	0.00	0.031	0					0.51
10.000	0.00	0.00	0.031	0					0.51
10.083	0.00	0.00	0.031	0					0.51
10.167	0.00	0.00	0.031	0					0.51
10.250	0.00	0.00	0.031	0					0.51
10.333	0.00	0.00	0.031	0					0.51
10.417	0.00	0.00	0.031	0					0.51
10.500	0.00	0.00	0.031	0					0.51
10.583	0.00	0.00	0.031	0					0.51
10.667	0.00	0.00	0.031	0					0.51
10.750	0.00	0.00	0.031	0					0.51
10.833	0.00	0.00	0.031	0					0.51
10.917	0.00	0.00	0.031	0					0.51
11.000	0.00	0.00	0.031	0					0.51
11.083	0.00	0.00	0.031	0					0.51
11.167	0.00	0.00	0.030	0					0.51
11.250	0.00	0.00	0.030	0					0.51
11.333	0.00	0.00	0.030	0					0.51
11.417	0.00	0.00	0.030	0					0.51
11.500	0.00	0.00	0.030	0					0.51
11.583	0.00	0.00	0.030	0					0.51
11.667	0.00	0.00	0.030	0					0.51
11.750	0.00	0.00	0.030	0					0.51
11.833	0.00	0.00	0.030	0					0.51
11.917	0.00	0.00	0.030	0					0.50
12.000	0.00	0.00	0.030	0					0.50
12.083	0.00	0.00	0.030	0					0.50
12.167	0.00	0.00	0.030	0					0.50
12.250	0.00	0.00	0.030	0					0.50
12.333	0.00	0.00	0.030	0					0.50

12.417	0.00	0.00	0.030	0					0.50
12.500	0.00	0.00	0.030	0					0.50
12.583	0.00	0.00	0.030	0					0.50
12.667	0.00	0.00	0.030	0					0.50
12.750	0.00	0.00	0.030	0					0.50
12.833	0.00	0.00	0.030	0					0.50
12.917	0.00	0.00	0.030	0					0.50
13.000	0.00	0.00	0.030	0					0.50
13.083	0.00	0.00	0.030	0					0.50
13.167	0.00	0.00	0.030	0					0.50
13.250	0.00	0.00	0.030	0					0.50
13.333	0.00	0.00	0.030	0					0.50
13.417	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

*****HYDROGRAPH DATA*****
 Number of intervals = 161
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 0.196 (CFS)
 Total volume = 0.054 (Ac.Ft)
 Status of hydrographs being held in storage
 Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
 Peak (CFS) 0.000 0.000 0.000 0.000 0.000
 Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 3 10YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH310.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.612 (CFS)
Total volume = 0.127 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.4	0.81	1.21	1.61	Depth (Ft.)
0.083	0.15	0.00	0.001	0	I				0.01
0.167	0.23	0.00	0.002	0	I				0.03
0.250	0.20	0.00	0.003	0	I				0.06
0.333	0.24	0.00	0.005	0	I				0.08
0.417	0.26	0.00	0.007	0	I				0.11
0.500	0.30	0.00	0.008	0	I				0.14
0.583	0.28	0.00	0.010	0	I				0.17
0.667	0.30	0.00	0.012	0	I				0.21
0.750	0.31	0.00	0.015	0	I				0.24
0.833	0.28	0.00	0.017	0	I				0.28
0.917	0.27	0.00	0.018	0	I				0.31
1.000	0.30	0.00	0.020	0	I				0.34
1.083	0.36	0.00	0.023	0	I				0.38
1.167	0.38	0.00	0.025	0	I				0.42
1.250	0.38	0.00	0.028	0	I				0.46
1.333	0.36	0.00	0.030	0	I				0.51
1.417	0.42	0.02	0.033	0	I				0.54
1.500	0.47	0.03	0.036	0	I				0.58
1.583	0.43	0.05	0.039	0	I				0.62
1.667	0.46	0.06	0.041	0	I				0.66
1.750	0.56	0.08	0.044	0	I				0.71
1.833	0.57	0.10	0.048	0	I				0.75
1.917	0.53	0.12	0.051	0	I				0.80
2.000	0.53	0.13	0.054	0	I				0.84
2.083	0.55	0.15	0.056	0	I				0.88
2.167	0.73	0.17	0.060	0	I				0.92
2.250	0.92	0.19	0.064	0	I				0.99
2.333	0.75	0.20	0.069	0	I				1.04
2.417	1.14	0.20	0.074	0	I				1.11
2.500	1.44	0.20	0.081	0	I				1.20
2.583	1.61	0.20	0.090	0	I				1.31
2.667	1.33	0.20	0.099	0	I				1.42
2.750	0.61	0.20	0.104	0	I				1.48
2.833	0.32	0.20	0.106	0	I				1.50
2.917	0.31	0.20	0.107	0	I				1.51
3.000	0.17	0.20	0.107	0	I				1.52
3.083	0.03	0.20	0.107	I	0				1.51
3.167	0.00	0.20	0.106	I	0				1.49
3.250	0.00	0.20	0.104	I	0				1.48
3.333	0.00	0.20	0.103	I	0				1.46
3.417	0.00	0.20	0.102	I	0				1.45
3.500	0.00	0.20	0.100	I	0				1.43
3.583	0.00	0.20	0.099	I	0				1.41
3.667	0.00	0.20	0.097	I	0				1.40
3.750	0.00	0.20	0.096	I	0				1.38
3.833	0.00	0.20	0.095	I	0				1.36
3.917	0.00	0.20	0.093	I	0				1.35
4.000	0.00	0.20	0.092	I	0				1.33

4.083	0.00	0.20	0.091	I	0					1.31
4.167	0.00	0.20	0.089	I	0					1.30
4.250	0.00	0.20	0.088	I	0					1.28
4.333	0.00	0.20	0.087	I	0					1.26
4.417	0.00	0.20	0.085	I	0					1.25
4.500	0.00	0.20	0.084	I	0					1.23
4.583	0.00	0.20	0.083	I	0					1.21
4.667	0.00	0.20	0.081	I	0					1.20
4.750	0.00	0.20	0.080	I	0					1.18
4.833	0.00	0.20	0.079	I	0					1.17
4.917	0.00	0.20	0.077	I	0					1.15
5.000	0.00	0.20	0.076	I	0					1.13
5.083	0.00	0.20	0.074	I	0					1.12
5.167	0.00	0.20	0.073	I	0					1.10
5.250	0.00	0.20	0.072	I	0					1.08
5.333	0.00	0.20	0.070	I	0					1.07
5.417	0.00	0.20	0.069	I	0					1.05
5.500	0.00	0.20	0.068	I	0					1.03
5.583	0.00	0.20	0.066	I	0					1.02
5.667	0.00	0.20	0.065	I	0					1.00
5.750	0.00	0.19	0.064	I	0					0.98
5.833	0.00	0.18	0.062	I	0					0.96
5.917	0.00	0.17	0.061	I	0					0.95
6.000	0.00	0.17	0.060	I	0					0.93
6.083	0.00	0.16	0.059	I	0					0.91
6.167	0.00	0.16	0.058	I	0					0.90
6.250	0.00	0.15	0.057	I	0					0.88
6.333	0.00	0.14	0.056	I	0					0.87
6.417	0.00	0.14	0.055	I	0					0.85
6.500	0.00	0.13	0.054	I	0					0.84
6.583	0.00	0.13	0.053	I	0					0.83
6.667	0.00	0.12	0.052	I	0					0.81
6.750	0.00	0.12	0.051	I	0					0.80
6.833	0.00	0.11	0.050	I	0					0.79
6.917	0.00	0.11	0.050	I	0					0.78
7.000	0.00	0.11	0.049	I	0					0.77
7.083	0.00	0.10	0.048	I	0					0.76
7.167	0.00	0.10	0.047	IO						0.75
7.250	0.00	0.09	0.047	IO						0.74
7.333	0.00	0.09	0.046	IO						0.73
7.417	0.00	0.09	0.046	IO						0.72
7.500	0.00	0.08	0.045	IO						0.71
7.583	0.00	0.08	0.044	IO						0.71
7.667	0.00	0.08	0.044	IO						0.70
7.750	0.00	0.07	0.043	IO						0.69
7.833	0.00	0.07	0.043	IO						0.68
7.917	0.00	0.07	0.042	IO						0.68
8.000	0.00	0.07	0.042	IO						0.67
8.083	0.00	0.06	0.041	IO						0.66
8.167	0.00	0.06	0.041	IO						0.66

8.250	0.00	0.06	0.041	IO					0.65
8.333	0.00	0.06	0.040	IO					0.65
8.417	0.00	0.05	0.040	IO					0.64
8.500	0.00	0.05	0.039	IO					0.63
8.583	0.00	0.05	0.039	IO					0.63
8.667	0.00	0.05	0.039	0					0.62
8.750	0.00	0.05	0.038	0					0.62
8.833	0.00	0.05	0.038	0					0.62
8.917	0.00	0.04	0.038	0					0.61
9.000	0.00	0.04	0.037	0					0.61
9.083	0.00	0.04	0.037	0					0.60
9.167	0.00	0.04	0.037	0					0.60
9.250	0.00	0.04	0.037	0					0.59
9.333	0.00	0.04	0.036	0					0.59
9.417	0.00	0.03	0.036	0					0.59
9.500	0.00	0.03	0.036	0					0.58
9.583	0.00	0.03	0.036	0					0.58
9.667	0.00	0.03	0.035	0					0.58
9.750	0.00	0.03	0.035	0					0.58
9.833	0.00	0.03	0.035	0					0.57
9.917	0.00	0.03	0.035	0					0.57
10.000	0.00	0.03	0.035	0					0.57
10.083	0.00	0.03	0.035	0					0.56
10.167	0.00	0.02	0.034	0					0.56
10.250	0.00	0.02	0.034	0					0.56
10.333	0.00	0.02	0.034	0					0.56
10.417	0.00	0.02	0.034	0					0.56
10.500	0.00	0.02	0.034	0					0.55
10.583	0.00	0.02	0.034	0					0.55
10.667	0.00	0.02	0.033	0					0.55
10.750	0.00	0.02	0.033	0					0.55
10.833	0.00	0.02	0.033	0					0.55
10.917	0.00	0.02	0.033	0					0.54
11.000	0.00	0.02	0.033	0					0.54
11.083	0.00	0.02	0.033	0					0.54
11.167	0.00	0.02	0.033	0					0.54
11.250	0.00	0.01	0.033	0					0.54
11.333	0.00	0.01	0.033	0					0.54
11.417	0.00	0.01	0.032	0					0.53
11.500	0.00	0.01	0.032	0					0.53
11.583	0.00	0.01	0.032	0					0.53
11.667	0.00	0.01	0.032	0					0.53
11.750	0.00	0.01	0.032	0					0.53
11.833	0.00	0.01	0.032	0					0.53
11.917	0.00	0.01	0.032	0					0.53
12.000	0.00	0.01	0.032	0					0.53
12.083	0.00	0.01	0.032	0					0.53
12.167	0.00	0.01	0.032	0					0.52
12.250	0.00	0.01	0.032	0					0.52
12.333	0.00	0.01	0.032	0					0.52

12.417	0.00	0.01	0.032	0					0.52
12.500	0.00	0.01	0.031	0					0.52
12.583	0.00	0.01	0.031	0					0.52
12.667	0.00	0.01	0.031	0					0.52
12.750	0.00	0.01	0.031	0					0.52
12.833	0.00	0.01	0.031	0					0.52
12.917	0.00	0.01	0.031	0					0.52
13.000	0.00	0.01	0.031	0					0.52
13.083	0.00	0.01	0.031	0					0.52
13.167	0.00	0.01	0.031	0					0.52
13.250	0.00	0.01	0.031	0					0.51
13.333	0.00	0.01	0.031	0					0.51
13.417	0.00	0.01	0.031	0					0.51
13.500	0.00	0.01	0.031	0					0.51
13.583	0.00	0.00	0.031	0					0.51
13.667	0.00	0.00	0.031	0					0.51
13.750	0.00	0.00	0.031	0					0.51
13.833	0.00	0.00	0.031	0					0.51
13.917	0.00	0.00	0.031	0					0.51
14.000	0.00	0.00	0.031	0					0.51
14.083	0.00	0.00	0.031	0					0.51
14.167	0.00	0.00	0.031	0					0.51
14.250	0.00	0.00	0.031	0					0.51
14.333	0.00	0.00	0.031	0					0.51
14.417	0.00	0.00	0.031	0					0.51
14.500	0.00	0.00	0.031	0					0.51
14.583	0.00	0.00	0.031	0					0.51
14.667	0.00	0.00	0.031	0					0.51
14.750	0.00	0.00	0.031	0					0.51
14.833	0.00	0.00	0.030	0					0.51
14.917	0.00	0.00	0.030	0					0.51
15.000	0.00	0.00	0.030	0					0.51
15.083	0.00	0.00	0.030	0					0.51
15.167	0.00	0.00	0.030	0					0.51
15.250	0.00	0.00	0.030	0					0.51
15.333	0.00	0.00	0.030	0					0.51
15.417	0.00	0.00	0.030	0					0.51
15.500	0.00	0.00	0.030	0					0.51
15.583	0.00	0.00	0.030	0					0.51
15.667	0.00	0.00	0.030	0					0.50
15.750	0.00	0.00	0.030	0					0.50
15.833	0.00	0.00	0.030	0					0.50
15.917	0.00	0.00	0.030	0					0.50
16.000	0.00	0.00	0.030	0					0.50
16.083	0.00	0.00	0.030	0					0.50
16.167	0.00	0.00	0.030	0					0.50
16.250	0.00	0.00	0.030	0					0.50
16.333	0.00	0.00	0.030	0					0.50
16.417	0.00	0.00	0.030	0					0.50
16.500	0.00	0.00	0.030	0					0.50

16.583	0.00	0.00	0.030	0					0.50
16.667	0.00	0.00	0.030	0					0.50
16.750	0.00	0.00	0.030	0					0.50
16.833	0.00	0.00	0.030	0					0.50
16.917	0.00	0.00	0.030	0					0.50
17.000	0.00	0.00	0.030	0					0.50
17.083	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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*****HYDROGRAPH DATA*****
      Number of intervals = 205
      Time interval = 5.0 (Min.)
      Maximum/Peak flow rate = 0.196 (CFS)
      Total volume = 0.097 (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
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Study date: 08/24/22

A21626 DMA 3 10YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH610.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 1.487 (CFS)
Total volume = 0.173 (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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Process from Point/Station 1.000 to Point/Station 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.4	0.74	1.12	1.49	Depth (Ft.)
0.083	0.08	0.00	0.000	O I					0.00
0.167	0.14	0.00	0.001	O I					0.02
0.250	0.14	0.00	0.002	O I					0.03
0.333	0.14	0.00	0.003	O I					0.05
0.417	0.14	0.00	0.004	O I					0.07
0.500	0.16	0.00	0.005	O I					0.08
0.583	0.17	0.00	0.006	O I					0.10
0.667	0.17	0.00	0.007	O I					0.12
0.750	0.17	0.00	0.008	O I					0.14
0.833	0.17	0.00	0.010	O I					0.16
0.917	0.17	0.00	0.011	O I					0.18
1.000	0.18	0.00	0.012	O I					0.20
1.083	0.19	0.00	0.013	O I					0.22
1.167	0.19	0.00	0.015	O I					0.24
1.250	0.19	0.00	0.016	O I					0.27
1.333	0.19	0.00	0.017	O I					0.29
1.417	0.19	0.00	0.019	O I					0.31
1.500	0.19	0.00	0.020	O I					0.33
1.583	0.19	0.00	0.021	O I					0.35
1.667	0.19	0.00	0.023	O I					0.38
1.750	0.19	0.00	0.024	O I					0.40
1.833	0.19	0.00	0.025	O I					0.42
1.917	0.19	0.00	0.026	O I					0.44
2.000	0.21	0.00	0.028	O I					0.46
2.083	0.20	0.00	0.029	O I					0.49
2.167	0.21	0.00	0.031	O I					0.51
2.250	0.22	0.01	0.032	O I					0.53
2.333	0.22	0.02	0.033	O I					0.55
2.417	0.22	0.03	0.035	O I					0.57
2.500	0.22	0.03	0.036	O I					0.59
2.583	0.22	0.04	0.037	O I					0.60
2.667	0.22	0.05	0.038	O I					0.62
2.750	0.23	0.05	0.040	O I					0.64
2.833	0.24	0.06	0.041	O I					0.66
2.917	0.24	0.07	0.042	O I					0.67
3.000	0.24	0.07	0.043	O I					0.69
3.083	0.24	0.08	0.044	O I					0.71
3.167	0.26	0.09	0.045	O I					0.72
3.250	0.26	0.09	0.047	O I					0.74
3.333	0.26	0.10	0.048	O I					0.75
3.417	0.28	0.11	0.049	O I					0.77
3.500	0.30	0.11	0.050	O I					0.79
3.583	0.33	0.12	0.052	O I					0.81
3.667	0.34	0.13	0.053	O I					0.83
3.750	0.35	0.14	0.054	O I					0.85
3.833	0.36	0.15	0.056	O I					0.87
3.917	0.38	0.15	0.057	O I					0.89
4.000	0.38	0.16	0.059	O I					0.91

4.083	0.40	0.17	0.061	0	I				0.94
4.167	0.42	0.18	0.062	0	I				0.96
4.250	0.45	0.19	0.064	0	I				0.98
4.333	0.48	0.20	0.066	0	I				1.01
4.417	0.51	0.20	0.068	0	I				1.03
4.500	0.52	0.20	0.070	0	I				1.06
4.583	0.54	0.20	0.072	0	I				1.09
4.667	0.57	0.20	0.075	0	I				1.12
4.750	0.60	0.20	0.077	0	I				1.15
4.833	0.61	0.20	0.080	0	I				1.18
4.917	0.63	0.20	0.083	0	I				1.22
5.000	0.66	0.20	0.086	0	I				1.26
5.083	0.77	0.20	0.090	0	I				1.30
5.167	0.92	0.20	0.094	0		I			1.36
5.250	1.03	0.20	0.100	0		I	I		1.42
5.333	1.12	0.20	0.106	0			I		1.50
5.417	1.25	0.20	0.112	0				I	1.57
5.500	1.49	0.20	0.121	0					1.66
5.583	0.81	0.20	0.127	0		I			1.73
5.667	0.29	0.20	0.129	0	I				1.76
5.750	0.17	0.20	0.130	IO					1.76
5.833	0.13	0.20	0.129	I	0				1.75
5.917	0.09	0.20	0.129	I	0				1.75
6.000	0.06	0.20	0.128	I	0				1.74
6.083	0.02	0.20	0.127	I	0				1.73
6.167	0.00	0.20	0.125	I	0				1.71
6.250	0.00	0.20	0.124	I	0				1.70
6.333	0.00	0.20	0.123	I	0				1.68
6.417	0.00	0.20	0.121	I	0				1.67
6.500	0.00	0.20	0.120	I	0				1.65
6.583	0.00	0.20	0.119	I	0				1.64
6.667	0.00	0.20	0.117	I	0				1.62
6.750	0.00	0.20	0.116	I	0				1.61
6.833	0.00	0.20	0.115	I	0				1.59
6.917	0.00	0.20	0.113	I	0				1.58
7.000	0.00	0.20	0.112	I	0				1.56
7.083	0.00	0.20	0.111	I	0				1.55
7.167	0.00	0.20	0.109	I	0				1.54
7.250	0.00	0.20	0.108	I	0				1.52
7.333	0.00	0.20	0.107	I	0				1.51
7.417	0.00	0.20	0.105	I	0				1.49
7.500	0.00	0.20	0.104	I	0				1.47
7.583	0.00	0.20	0.103	I	0				1.46
7.667	0.00	0.20	0.101	I	0				1.44
7.750	0.00	0.20	0.100	I	0				1.42
7.833	0.00	0.20	0.098	I	0				1.41
7.917	0.00	0.20	0.097	I	0				1.39
8.000	0.00	0.20	0.096	I	0				1.37
8.083	0.00	0.20	0.094	I	0				1.36
8.167	0.00	0.20	0.093	I	0				1.34

8.250	0.00	0.20	0.092	I	0					1.33
8.333	0.00	0.20	0.090	I	0					1.31
8.417	0.00	0.20	0.089	I	0					1.29
8.500	0.00	0.20	0.088	I	0					1.28
8.583	0.00	0.20	0.086	I	0					1.26
8.667	0.00	0.20	0.085	I	0					1.24
8.750	0.00	0.20	0.084	I	0					1.23
8.833	0.00	0.20	0.082	I	0					1.21
8.917	0.00	0.20	0.081	I	0					1.19
9.000	0.00	0.20	0.080	I	0					1.18
9.083	0.00	0.20	0.078	I	0					1.16
9.167	0.00	0.20	0.077	I	0					1.14
9.250	0.00	0.20	0.075	I	0					1.13
9.333	0.00	0.20	0.074	I	0					1.11
9.417	0.00	0.20	0.073	I	0					1.09
9.500	0.00	0.20	0.071	I	0					1.08
9.583	0.00	0.20	0.070	I	0					1.06
9.667	0.00	0.20	0.069	I	0					1.05
9.750	0.00	0.20	0.067	I	0					1.03
9.833	0.00	0.20	0.066	I	0					1.01
9.917	0.00	0.19	0.065	I	0					0.99
10.000	0.00	0.19	0.063	I	0					0.98
10.083	0.00	0.18	0.062	I	0					0.96
10.167	0.00	0.17	0.061	I	0					0.94
10.250	0.00	0.17	0.060	I	0					0.92
10.333	0.00	0.16	0.059	I	0					0.91
10.417	0.00	0.15	0.057	I	0					0.89
10.500	0.00	0.15	0.056	I	0					0.88
10.583	0.00	0.14	0.055	I	0					0.86
10.667	0.00	0.14	0.054	I	0					0.85
10.750	0.00	0.13	0.054	I	0					0.84
10.833	0.00	0.13	0.053	I	0					0.82
10.917	0.00	0.12	0.052	I	0					0.81
11.000	0.00	0.12	0.051	I	0					0.80
11.083	0.00	0.11	0.050	I	0					0.79
11.167	0.00	0.11	0.049	I	0					0.78
11.250	0.00	0.10	0.049	I	0					0.77
11.333	0.00	0.10	0.048	I	0					0.76
11.417	0.00	0.10	0.047	I	0					0.75
11.500	0.00	0.09	0.047	I	0					0.74
11.583	0.00	0.09	0.046	IO						0.73
11.667	0.00	0.09	0.045	IO						0.72
11.750	0.00	0.08	0.045	IO						0.71
11.833	0.00	0.08	0.044	IO						0.70
11.917	0.00	0.08	0.044	IO						0.70
12.000	0.00	0.07	0.043	IO						0.69
12.083	0.00	0.07	0.043	IO						0.68
12.167	0.00	0.07	0.042	IO						0.67
12.250	0.00	0.07	0.042	IO						0.67
12.333	0.00	0.06	0.041	IO						0.66

12.417	0.00	0.06	0.041	IO				0.66
12.500	0.00	0.06	0.040	IO				0.65
12.583	0.00	0.06	0.040	IO				0.64
12.667	0.00	0.05	0.040	IO				0.64
12.750	0.00	0.05	0.039	IO				0.63
12.833	0.00	0.05	0.039	IO				0.63
12.917	0.00	0.05	0.039	IO				0.62
13.000	0.00	0.05	0.038	IO				0.62
13.083	0.00	0.04	0.038	0				0.61
13.167	0.00	0.04	0.038	0				0.61
13.250	0.00	0.04	0.037	0				0.61
13.333	0.00	0.04	0.037	0				0.60
13.417	0.00	0.04	0.037	0				0.60
13.500	0.00	0.04	0.037	0				0.59
13.583	0.00	0.04	0.036	0				0.59
13.667	0.00	0.03	0.036	0				0.59
13.750	0.00	0.03	0.036	0				0.58
13.833	0.00	0.03	0.036	0				0.58
13.917	0.00	0.03	0.035	0				0.58
14.000	0.00	0.03	0.035	0				0.57
14.083	0.00	0.03	0.035	0				0.57
14.167	0.00	0.03	0.035	0				0.57
14.250	0.00	0.03	0.035	0				0.57
14.333	0.00	0.03	0.034	0				0.56
14.417	0.00	0.02	0.034	0				0.56
14.500	0.00	0.02	0.034	0				0.56
14.583	0.00	0.02	0.034	0				0.56
14.667	0.00	0.02	0.034	0				0.55
14.750	0.00	0.02	0.034	0				0.55
14.833	0.00	0.02	0.034	0				0.55
14.917	0.00	0.02	0.033	0				0.55
15.000	0.00	0.02	0.033	0				0.55
15.083	0.00	0.02	0.033	0				0.55
15.167	0.00	0.02	0.033	0				0.54
15.250	0.00	0.02	0.033	0				0.54
15.333	0.00	0.02	0.033	0				0.54
15.417	0.00	0.02	0.033	0				0.54
15.500	0.00	0.01	0.033	0				0.54
15.583	0.00	0.01	0.033	0				0.54
15.667	0.00	0.01	0.032	0				0.53
15.750	0.00	0.01	0.032	0				0.53
15.833	0.00	0.01	0.032	0				0.53
15.917	0.00	0.01	0.032	0				0.53
16.000	0.00	0.01	0.032	0				0.53
16.083	0.00	0.01	0.032	0				0.53
16.167	0.00	0.01	0.032	0				0.53
16.250	0.00	0.01	0.032	0				0.53
16.333	0.00	0.01	0.032	0				0.53
16.417	0.00	0.01	0.032	0				0.52
16.500	0.00	0.01	0.032	0				0.52

16.583	0.00	0.01	0.032	0					0.52
16.667	0.00	0.01	0.032	0					0.52
16.750	0.00	0.01	0.031	0					0.52
16.833	0.00	0.01	0.031	0					0.52
16.917	0.00	0.01	0.031	0					0.52
17.000	0.00	0.01	0.031	0					0.52
17.083	0.00	0.01	0.031	0					0.52
17.167	0.00	0.01	0.031	0					0.52
17.250	0.00	0.01	0.031	0					0.52
17.333	0.00	0.01	0.031	0					0.52
17.417	0.00	0.01	0.031	0					0.52
17.500	0.00	0.01	0.031	0					0.51
17.583	0.00	0.01	0.031	0					0.51
17.667	0.00	0.01	0.031	0					0.51
17.750	0.00	0.01	0.031	0					0.51
17.833	0.00	0.00	0.031	0					0.51
17.917	0.00	0.00	0.031	0					0.51
18.000	0.00	0.00	0.031	0					0.51
18.083	0.00	0.00	0.031	0					0.51
18.167	0.00	0.00	0.031	0					0.51
18.250	0.00	0.00	0.031	0					0.51
18.333	0.00	0.00	0.031	0					0.51
18.417	0.00	0.00	0.031	0					0.51
18.500	0.00	0.00	0.031	0					0.51
18.583	0.00	0.00	0.031	0					0.51
18.667	0.00	0.00	0.031	0					0.51
18.750	0.00	0.00	0.031	0					0.51
18.833	0.00	0.00	0.031	0					0.51
18.917	0.00	0.00	0.031	0					0.51
19.000	0.00	0.00	0.031	0					0.51
19.083	0.00	0.00	0.030	0					0.51
19.167	0.00	0.00	0.030	0					0.51
19.250	0.00	0.00	0.030	0					0.51
19.333	0.00	0.00	0.030	0					0.51
19.417	0.00	0.00	0.030	0					0.51
19.500	0.00	0.00	0.030	0					0.51
19.583	0.00	0.00	0.030	0					0.51
19.667	0.00	0.00	0.030	0					0.51
19.750	0.00	0.00	0.030	0					0.51
19.833	0.00	0.00	0.030	0					0.50
19.917	0.00	0.00	0.030	0					0.50
20.000	0.00	0.00	0.030	0					0.50
20.083	0.00	0.00	0.030	0					0.50
20.167	0.00	0.00	0.030	0					0.50
20.250	0.00	0.00	0.030	0					0.50
20.333	0.00	0.00	0.030	0					0.50
20.417	0.00	0.00	0.030	0					0.50
20.500	0.00	0.00	0.030	0					0.50
20.583	0.00	0.00	0.030	0					0.50
20.667	0.00	0.00	0.030	0					0.50

20.750	0.00	0.00	0.030	0					0.50
20.833	0.00	0.00	0.030	0					0.50
20.917	0.00	0.00	0.030	0					0.50
21.000	0.00	0.00	0.030	0					0.50
21.083	0.00	0.00	0.030	0					0.50
21.167	0.00	0.00	0.030	0					0.50
21.250	0.00	0.00	0.030	0					0.50
21.333	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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*****HYDROGRAPH DATA*****
      Number of intervals = 256
      Time interval = 5.0 (Min.)
      Maximum/Peak flow rate = 0.196 (CFS)
      Total volume = 0.142 (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
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Study date: 08/24/22

A21626 DMA 3 10YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH2410.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.501 (CFS)
Total volume = 0.291 (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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Process from Point/Station 1.000 to Point/Station 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I' = unit inflow; 'O' = outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.1	0.25	0.38	0.50	Depth (Ft.)
0.083	0.02	0.00	0.000	O I					0.00
0.167	0.03	0.00	0.000	O I					0.00
0.250	0.03	0.00	0.000	O I					0.01
0.333	0.04	0.00	0.001	O I					0.01
0.417	0.04	0.00	0.001	O I					0.02
0.500	0.04	0.00	0.001	O I					0.02
0.583	0.04	0.00	0.002	O I					0.03
0.667	0.04	0.00	0.002	O I					0.03
0.750	0.04	0.00	0.002	O I					0.03
0.833	0.05	0.00	0.002	O I					0.04
0.917	0.06	0.00	0.003	O I					0.05
1.000	0.06	0.00	0.003	O I					0.05
1.083	0.05	0.00	0.004	O I					0.06
1.167	0.04	0.00	0.004	O I					0.06
1.250	0.04	0.00	0.004	O I					0.07
1.333	0.04	0.00	0.004	O I					0.07
1.417	0.04	0.00	0.005	O I					0.08
1.500	0.04	0.00	0.005	O I					0.08
1.583	0.04	0.00	0.005	O I					0.09
1.667	0.04	0.00	0.006	O I					0.09
1.750	0.04	0.00	0.006	O I					0.10
1.833	0.05	0.00	0.006	O I					0.10
1.917	0.06	0.00	0.007	O I					0.11
2.000	0.06	0.00	0.007	O I					0.12
2.083	0.06	0.00	0.007	O I					0.12
2.167	0.06	0.00	0.008	O I					0.13
2.250	0.06	0.00	0.008	O I					0.14
2.333	0.06	0.00	0.008	O I					0.14
2.417	0.06	0.00	0.009	O I					0.15
2.500	0.06	0.00	0.009	O I					0.15
2.583	0.07	0.00	0.010	O I					0.16
2.667	0.07	0.00	0.010	O I					0.17
2.750	0.07	0.00	0.011	O I					0.18
2.833	0.07	0.00	0.011	O I					0.19
2.917	0.07	0.00	0.012	O I					0.19
3.000	0.07	0.00	0.012	O I					0.20
3.083	0.07	0.00	0.013	O I					0.21
3.167	0.07	0.00	0.013	O I					0.22
3.250	0.07	0.00	0.014	O I					0.23
3.333	0.07	0.00	0.014	O I					0.23
3.417	0.07	0.00	0.015	O I					0.24
3.500	0.07	0.00	0.015	O I					0.25
3.583	0.07	0.00	0.015	O I					0.26
3.667	0.07	0.00	0.016	O I					0.27
3.750	0.07	0.00	0.016	O I					0.27
3.833	0.08	0.00	0.017	O I					0.28
3.917	0.08	0.00	0.018	O I					0.29
4.000	0.08	0.00	0.018	O I					0.30

4.083	0.08	0.00	0.019	0	I					0.31
4.167	0.08	0.00	0.019	0	I					0.32
4.250	0.08	0.00	0.020	0	I					0.33
4.333	0.09	0.00	0.020	0	I					0.34
4.417	0.10	0.00	0.021	0	I					0.35
4.500	0.10	0.00	0.022	0	I					0.36
4.583	0.10	0.00	0.022	0	I					0.37
4.667	0.10	0.00	0.023	0	I					0.39
4.750	0.10	0.00	0.024	0	I					0.40
4.833	0.11	0.00	0.025	0	I					0.41
4.917	0.11	0.00	0.025	0	I					0.42
5.000	0.11	0.00	0.026	0	I					0.43
5.083	0.09	0.00	0.027	0	I					0.45
5.167	0.08	0.00	0.027	0	I					0.46
5.250	0.08	0.00	0.028	0	I					0.47
5.333	0.09	0.00	0.029	0	I					0.48
5.417	0.10	0.00	0.029	0	I					0.49
5.500	0.10	0.00	0.030	0	I					0.50
5.583	0.11	0.00	0.031	0	I					0.51
5.667	0.11	0.01	0.031	0	I					0.52
5.750	0.11	0.01	0.032	0	I					0.53
5.833	0.11	0.02	0.033	0	I					0.54
5.917	0.11	0.02	0.033	0	I					0.55
6.000	0.11	0.02	0.034	0	I					0.56
6.083	0.12	0.03	0.035	0	I					0.57
6.167	0.13	0.03	0.035	0	I					0.58
6.250	0.13	0.03	0.036	0	I					0.59
6.333	0.13	0.04	0.037	0	I					0.59
6.417	0.13	0.04	0.037	0	I					0.60
6.500	0.13	0.04	0.038	0	I					0.61
6.583	0.14	0.05	0.038	0	I					0.62
6.667	0.14	0.05	0.039	0	I					0.63
6.750	0.14	0.05	0.040	0	I					0.64
6.833	0.14	0.06	0.040	0	I					0.65
6.917	0.14	0.06	0.041	0	I					0.65
7.000	0.14	0.06	0.041	0	I					0.66
7.083	0.14	0.07	0.042	0	I					0.67
7.167	0.14	0.07	0.042	0	I					0.68
7.250	0.14	0.07	0.043	0	I					0.68
7.333	0.15	0.07	0.043	0	I					0.69
7.417	0.15	0.08	0.044	0	I					0.70
7.500	0.15	0.08	0.044	0	I					0.71
7.583	0.16	0.08	0.045	0	I					0.71
7.667	0.17	0.09	0.045	0	I					0.72
7.750	0.17	0.09	0.046	0	I					0.73
7.833	0.18	0.09	0.047	0	I					0.74
7.917	0.18	0.10	0.047	0	I					0.75
8.000	0.18	0.10	0.048	0	I					0.75
8.083	0.20	0.10	0.048	0	I					0.76
8.167	0.21	0.11	0.049	0	I					0.77

8.250	0.21	0.11	0.050	0	I			0.78
8.333	0.21	0.11	0.050	0	I			0.79
8.417	0.21	0.12	0.051	0	I			0.80
8.500	0.21	0.12	0.052	0	I			0.81
8.583	0.22	0.13	0.052	0	I			0.82
8.667	0.22	0.13	0.053	0	I			0.83
8.750	0.22	0.13	0.054	0	I			0.84
8.833	0.23	0.14	0.054	0	I			0.85
8.917	0.24	0.14	0.055	0	I			0.86
9.000	0.24	0.14	0.056	0	I			0.87
9.083	0.26	0.15	0.056	0	I			0.88
9.167	0.27	0.15	0.057	0	I			0.89
9.250	0.27	0.16	0.058	0	I			0.90
9.333	0.28	0.16	0.059	0	I			0.91
9.417	0.28	0.17	0.059	0	I			0.92
9.500	0.28	0.17	0.060	0	I			0.93
9.583	0.29	0.17	0.061	0	I			0.94
9.667	0.30	0.18	0.062	0	I			0.96
9.750	0.30	0.18	0.063	0	I			0.97
9.833	0.30	0.19	0.063	0	I			0.98
9.917	0.31	0.19	0.064	0	I			0.99
10.000	0.31	0.20	0.065	0	I			1.00
10.083	0.24	0.20	0.066	0	I			1.01
10.167	0.21	0.20	0.066	0	I			1.01
10.250	0.21	0.20	0.066	0	I			1.01
10.333	0.21	0.20	0.066	0	I			1.01
10.417	0.21	0.20	0.066	0	I			1.01
10.500	0.21	0.20	0.066	0	I			1.01
10.583	0.26	0.20	0.066	0	I			1.02
10.667	0.28	0.20	0.067	0	I			1.02
10.750	0.28	0.20	0.068	0	I			1.03
10.833	0.28	0.20	0.068	0	I			1.04
10.917	0.28	0.20	0.069	0	I			1.05
11.000	0.28	0.20	0.069	0	I			1.05
11.083	0.27	0.20	0.070	0	I			1.06
11.167	0.27	0.20	0.070	0	I			1.07
11.250	0.27	0.20	0.071	0	I			1.07
11.333	0.27	0.20	0.071	0	I			1.08
11.417	0.27	0.20	0.072	0	I			1.08
11.500	0.27	0.20	0.072	0	I			1.09
11.583	0.25	0.20	0.073	0	I			1.09
11.667	0.24	0.20	0.073	0	I			1.10
11.750	0.24	0.20	0.073	0	I			1.10
11.833	0.25	0.20	0.074	0	I			1.11
11.917	0.25	0.20	0.074	0	I			1.11
12.000	0.25	0.20	0.074	0	I			1.11
12.083	0.32	0.20	0.075	0	I			1.12
12.167	0.35	0.20	0.076	0	I			1.13
12.250	0.35	0.20	0.077	0	I			1.15
12.333	0.36	0.20	0.078	0	I			1.16

12.417	0.37	0.20	0.079		0	I	1.17
12.500	0.37	0.20	0.080		0	I	1.19
12.583	0.38	0.20	0.082		0	I	1.20
12.667	0.39	0.20	0.083		0	I	1.22
12.750	0.39	0.20	0.084		0	I	1.24
12.833	0.40	0.20	0.086		0	I	1.25
12.917	0.41	0.20	0.087		0	I	1.27
13.000	0.41	0.20	0.089		0	I	1.29
13.083	0.47	0.20	0.090		0	I	1.31
13.167	0.50	0.20	0.092		0	I	1.33
13.250	0.50	0.20	0.094		0	I	1.36
13.333	0.50	0.20	0.097		0	I	1.38
13.417	0.50	0.20	0.099		0	I	1.41
13.500	0.50	0.20	0.101		0	I	1.44
13.583	0.38	0.20	0.102		0	I	1.46
13.667	0.32	0.20	0.104		0	I	1.47
13.750	0.32	0.20	0.104		0	I	1.48
13.833	0.32	0.20	0.105		0	I	1.49
13.917	0.32	0.20	0.106		0	I	1.50
14.000	0.32	0.20	0.107		0	I	1.51
14.083	0.36	0.20	0.108		0	I	1.52
14.167	0.38	0.20	0.109		0	I	1.54
14.250	0.38	0.20	0.111		0	I	1.55
14.333	0.37	0.20	0.112		0	I	1.56
14.417	0.37	0.20	0.113		0	I	1.58
14.500	0.37	0.20	0.114		0	I	1.59
14.583	0.37	0.20	0.115		0	I	1.60
14.667	0.37	0.20	0.116		0	I	1.61
14.750	0.37	0.20	0.118		0	I	1.63
14.833	0.36	0.20	0.119		0	I	1.64
14.917	0.35	0.20	0.120		0	I	1.65
15.000	0.35	0.20	0.121		0	I	1.66
15.083	0.34	0.20	0.122		0	I	1.67
15.167	0.34	0.20	0.123		0	I	1.68
15.250	0.34	0.20	0.124		0	I	1.69
15.333	0.33	0.20	0.125		0	I	1.70
15.417	0.32	0.20	0.126		0	I	1.71
15.500	0.32	0.20	0.127		0	I	1.72
15.583	0.28	0.20	0.127		0	I	1.73
15.667	0.27	0.20	0.128		0	I	1.74
15.750	0.27	0.20	0.128		0	I	1.74
15.833	0.27	0.20	0.129		0	I	1.75
15.917	0.27	0.20	0.129		0	I	1.75
16.000	0.27	0.20	0.130		0	I	1.76
16.083	0.12	0.20	0.130	I	0		1.76
16.167	0.06	0.20	0.129	I	0		1.75
16.250	0.06	0.20	0.128	I	0		1.74
16.333	0.06	0.20	0.127	I	0		1.73
16.417	0.06	0.20	0.126	I	0		1.72
16.500	0.06	0.20	0.125	I	0		1.71

16.583	0.05	0.20	0.124	I	0			1.70
16.667	0.04	0.20	0.123	I	0			1.69
16.750	0.04	0.20	0.122	I	0			1.68
16.833	0.04	0.20	0.121	I	0			1.66
16.917	0.04	0.20	0.120	I	0			1.65
17.000	0.04	0.20	0.119	I	0			1.64
17.083	0.06	0.20	0.118	I	0			1.63
17.167	0.07	0.20	0.117	I	0			1.62
17.250	0.07	0.20	0.116	I	0			1.61
17.333	0.07	0.20	0.115	I	0			1.60
17.417	0.07	0.20	0.114	I	0			1.59
17.500	0.07	0.20	0.114	I	0			1.58
17.583	0.07	0.20	0.113	I	0			1.57
17.667	0.07	0.20	0.112	I	0			1.56
17.750	0.07	0.20	0.111	I	0			1.55
17.833	0.06	0.20	0.110	I	0			1.54
17.917	0.06	0.20	0.109	I	0			1.53
18.000	0.06	0.20	0.108	I	0			1.52
18.083	0.06	0.20	0.107	I	0			1.51
18.167	0.06	0.20	0.106	I	0			1.50
18.250	0.06	0.20	0.105	I	0			1.49
18.333	0.06	0.20	0.104	I	0			1.48
18.417	0.06	0.20	0.103	I	0			1.47
18.500	0.06	0.20	0.102	I	0			1.46
18.583	0.05	0.20	0.101	I	0			1.44
18.667	0.04	0.20	0.100	I	0			1.43
18.750	0.04	0.20	0.099	I	0			1.42
18.833	0.03	0.20	0.098	I	0			1.40
18.917	0.03	0.20	0.097	I	0			1.39
19.000	0.03	0.20	0.096	I	0			1.38
19.083	0.04	0.20	0.095	I	0			1.36
19.167	0.04	0.20	0.094	I	0			1.35
19.250	0.04	0.20	0.093	I	0			1.34
19.333	0.05	0.20	0.092	I	0			1.32
19.417	0.06	0.20	0.091	I	0			1.31
19.500	0.06	0.20	0.090	I	0			1.30
19.583	0.05	0.20	0.089	I	0			1.29
19.667	0.04	0.20	0.088	I	0			1.28
19.750	0.04	0.20	0.087	I	0			1.26
19.833	0.03	0.20	0.085	I	0			1.25
19.917	0.03	0.20	0.084	I	0			1.23
20.000	0.03	0.20	0.083	I	0			1.22
20.083	0.04	0.20	0.082	I	0			1.21
20.167	0.04	0.20	0.081	I	0			1.19
20.250	0.04	0.20	0.080	I	0			1.18
20.333	0.04	0.20	0.079	I	0			1.17
20.417	0.04	0.20	0.078	I	0			1.16
20.500	0.04	0.20	0.077	I	0			1.14
20.583	0.04	0.20	0.076	I	0			1.13
20.667	0.04	0.20	0.075	I	0			1.12

20.750	0.04	0.20	0.073	I	0				1.10
20.833	0.03	0.20	0.072	I	0				1.09
20.917	0.03	0.20	0.071	I	0				1.08
21.000	0.03	0.20	0.070	I	0				1.06
21.083	0.04	0.20	0.069	I	0				1.05
21.167	0.04	0.20	0.068	I	0				1.03
21.250	0.04	0.20	0.067	I	0				1.02
21.333	0.03	0.20	0.066	I	0				1.01
21.417	0.03	0.19	0.065	I	0				0.99
21.500	0.03	0.19	0.063	I	0				0.98
21.583	0.04	0.18	0.062	I	0				0.96
21.667	0.04	0.18	0.061	I	0				0.95
21.750	0.04	0.17	0.061	I	0				0.94
21.833	0.03	0.17	0.060	I	0				0.92
21.917	0.03	0.16	0.059	I	0				0.91
22.000	0.03	0.16	0.058	I	0				0.90
22.083	0.04	0.15	0.057	I	0				0.89
22.167	0.04	0.15	0.056	I	0				0.87
22.250	0.04	0.14	0.056	I	0				0.86
22.333	0.03	0.14	0.055	I	0				0.85
22.417	0.03	0.14	0.054	I	0				0.84
22.500	0.03	0.13	0.053	I	0				0.83
22.583	0.03	0.13	0.053	I	0				0.82
22.667	0.03	0.12	0.052	I	0				0.81
22.750	0.03	0.12	0.051	I	0				0.80
22.833	0.03	0.12	0.051	I	0				0.80
22.917	0.03	0.11	0.050	I	0				0.79
23.000	0.03	0.11	0.050	I	0				0.78
23.083	0.03	0.11	0.049	I	0				0.77
23.167	0.03	0.10	0.048	I	0				0.76
23.250	0.03	0.10	0.048	I	0				0.76
23.333	0.03	0.10	0.047	I	0				0.75
23.417	0.03	0.10	0.047	I	0				0.74
23.500	0.03	0.09	0.047	I	0				0.74
23.583	0.03	0.09	0.046	I	0				0.73
23.667	0.03	0.09	0.046	I	0				0.72
23.750	0.03	0.09	0.045	I	0				0.72
23.833	0.03	0.08	0.045	I	0				0.71
23.917	0.03	0.08	0.045	I	0				0.71
24.000	0.03	0.08	0.044	I	0				0.70
24.083	0.01	0.08	0.044	I	0				0.70
24.167	0.00	0.07	0.043	I	0				0.69
24.250	0.00	0.07	0.043	I	0				0.68
24.333	0.00	0.07	0.042	I	0				0.68
24.417	0.00	0.07	0.042	I	0				0.67
24.500	0.00	0.06	0.041	I	0				0.66
24.583	0.00	0.06	0.041	I	0				0.66
24.667	0.00	0.06	0.041	I	0				0.65
24.750	0.00	0.06	0.040	I	0				0.64
24.833	0.00	0.05	0.040	I	0				0.64

24.917	0.00	0.05	0.039	I	0					0.63
25.000	0.00	0.05	0.039	I	0					0.63
25.083	0.00	0.05	0.039	I	0					0.62
25.167	0.00	0.05	0.038	I	0					0.62
25.250	0.00	0.05	0.038	I	0					0.61
25.333	0.00	0.04	0.038	I	0					0.61
25.417	0.00	0.04	0.037	I	0					0.61
25.500	0.00	0.04	0.037	I	0					0.60
25.583	0.00	0.04	0.037	I	0					0.60
25.667	0.00	0.04	0.037	I	0					0.59
25.750	0.00	0.04	0.036	I	0					0.59
25.833	0.00	0.03	0.036	I	0					0.59
25.917	0.00	0.03	0.036	I	0					0.58
26.000	0.00	0.03	0.036	I	0					0.58
26.083	0.00	0.03	0.035	IO						0.58
26.167	0.00	0.03	0.035	IO						0.57
26.250	0.00	0.03	0.035	IO						0.57
26.333	0.00	0.03	0.035	IO						0.57
26.417	0.00	0.03	0.035	IO						0.57
26.500	0.00	0.03	0.034	IO						0.56
26.583	0.00	0.02	0.034	IO						0.56
26.667	0.00	0.02	0.034	IO						0.56
26.750	0.00	0.02	0.034	IO						0.56
26.833	0.00	0.02	0.034	IO						0.55
26.917	0.00	0.02	0.034	IO						0.55
27.000	0.00	0.02	0.034	IO						0.55
27.083	0.00	0.02	0.033	IO						0.55
27.167	0.00	0.02	0.033	IO						0.55
27.250	0.00	0.02	0.033	IO						0.55
27.333	0.00	0.02	0.033	IO						0.54
27.417	0.00	0.02	0.033	IO						0.54
27.500	0.00	0.02	0.033	IO						0.54
27.583	0.00	0.02	0.033	0						0.54
27.667	0.00	0.01	0.033	0						0.54
27.750	0.00	0.01	0.033	0						0.54
27.833	0.00	0.01	0.032	0						0.53
27.917	0.00	0.01	0.032	0						0.53
28.000	0.00	0.01	0.032	0						0.53
28.083	0.00	0.01	0.032	0						0.53
28.167	0.00	0.01	0.032	0						0.53
28.250	0.00	0.01	0.032	0						0.53
28.333	0.00	0.01	0.032	0						0.53
28.417	0.00	0.01	0.032	0						0.53
28.500	0.00	0.01	0.032	0						0.53
28.583	0.00	0.01	0.032	0						0.52
28.667	0.00	0.01	0.032	0						0.52
28.750	0.00	0.01	0.032	0						0.52
28.833	0.00	0.01	0.032	0						0.52
28.917	0.00	0.01	0.031	0						0.52
29.000	0.00	0.01	0.031	0						0.52

29.083	0.00	0.01	0.031	0					0.52
29.167	0.00	0.01	0.031	0					0.52
29.250	0.00	0.01	0.031	0					0.52
29.333	0.00	0.01	0.031	0					0.52
29.417	0.00	0.01	0.031	0					0.52
29.500	0.00	0.01	0.031	0					0.52
29.583	0.00	0.01	0.031	0					0.52
29.667	0.00	0.01	0.031	0					0.51
29.750	0.00	0.01	0.031	0					0.51
29.833	0.00	0.01	0.031	0					0.51
29.917	0.00	0.01	0.031	0					0.51
30.000	0.00	0.00	0.031	0					0.51
30.083	0.00	0.00	0.031	0					0.51
30.167	0.00	0.00	0.031	0					0.51
30.250	0.00	0.00	0.031	0					0.51
30.333	0.00	0.00	0.031	0					0.51
30.417	0.00	0.00	0.031	0					0.51
30.500	0.00	0.00	0.031	0					0.51
30.583	0.00	0.00	0.031	0					0.51
30.667	0.00	0.00	0.031	0					0.51
30.750	0.00	0.00	0.031	0					0.51
30.833	0.00	0.00	0.031	0					0.51
30.917	0.00	0.00	0.031	0					0.51
31.000	0.00	0.00	0.031	0					0.51
31.083	0.00	0.00	0.031	0					0.51
31.167	0.00	0.00	0.031	0					0.51
31.250	0.00	0.00	0.030	0					0.51
31.333	0.00	0.00	0.030	0					0.51
31.417	0.00	0.00	0.030	0					0.51
31.500	0.00	0.00	0.030	0					0.51
31.583	0.00	0.00	0.030	0					0.51
31.667	0.00	0.00	0.030	0					0.51
31.750	0.00	0.00	0.030	0					0.51
31.833	0.00	0.00	0.030	0					0.51
31.917	0.00	0.00	0.030	0					0.51
32.000	0.00	0.00	0.030	0					0.51
32.083	0.00	0.00	0.030	0					0.50
32.167	0.00	0.00	0.030	0					0.50
32.250	0.00	0.00	0.030	0					0.50
32.333	0.00	0.00	0.030	0					0.50
32.417	0.00	0.00	0.030	0					0.50
32.500	0.00	0.00	0.030	0					0.50
32.583	0.00	0.00	0.030	0					0.50
32.667	0.00	0.00	0.030	0					0.50
32.750	0.00	0.00	0.030	0					0.50
32.833	0.00	0.00	0.030	0					0.50
32.917	0.00	0.00	0.030	0					0.50
33.000	0.00	0.00	0.030	0					0.50
33.083	0.00	0.00	0.030	0					0.50
33.167	0.00	0.00	0.030	0					0.50

33.250	0.00	0.00	0.030	0					0.50
33.333	0.00	0.00	0.030	0					0.50
33.417	0.00	0.00	0.030	0					0.50
33.500	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 402

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.261 (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

DMA 3 Proposed 100-Year

FLOOD HYDROGRAPH ROUTING PROGRAM
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Study date: 08/24/22

A21626 DMA 3 100YR-1HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH1100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 13
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 4.563 (CFS)
Total volume = 0.143 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
 Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
 Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
 Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
 flow capacity is being calculated using depth = diameter
 Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
 Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
 Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

 Total number of inflow hydrograph intervals = 13
 Hydrograph time unit = 5.000 (Min.)
 Initial depth in storage basin = 0.00(Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	1.1	2.28	3.42	4.56	Depth (Ft.)
0.083	0.60	0.00	0.002	0	I				0.03
0.167	0.90	0.00	0.007	0	I				0.12
0.250	1.04	0.00	0.014	0	I				0.23
0.333	1.10	0.00	0.021	0	I				0.35
0.417	1.14	0.00	0.029	0	I				0.48
0.500	1.26	0.04	0.037	0	I				0.60
0.583	1.53	0.09	0.046	0	I				0.73
0.667	1.81	0.15	0.057	0	I				0.89
0.750	2.43	0.20	0.070	0		I			1.07
0.833	4.56	0.20	0.093	0				I	1.34
0.917	2.83	0.20	0.117	0		I			1.62
1.000	1.19	0.20	0.130	0	I				1.76
1.083	0.31	0.20	0.134	0	OI				1.80
1.167	0.00	0.20	0.133	IO					1.80
1.250	0.00	0.20	0.132	IO					1.78
1.333	0.00	0.20	0.131	IO					1.77
1.417	0.00	0.20	0.129	IO					1.75
1.500	0.00	0.20	0.128	IO					1.74
1.583	0.00	0.20	0.126	IO					1.72
1.667	0.00	0.20	0.125	IO					1.71
1.750	0.00	0.20	0.124	IO					1.69
1.833	0.00	0.20	0.122	IO					1.68
1.917	0.00	0.20	0.121	IO					1.66
2.000	0.00	0.20	0.120	IO					1.65
2.083	0.00	0.20	0.118	IO					1.63
2.167	0.00	0.20	0.117	IO					1.62
2.250	0.00	0.20	0.116	IO					1.60
2.333	0.00	0.20	0.114	IO					1.59
2.417	0.00	0.20	0.113	IO					1.58
2.500	0.00	0.20	0.112	IO					1.56
2.583	0.00	0.20	0.110	IO					1.55
2.667	0.00	0.20	0.109	IO					1.53
2.750	0.00	0.20	0.108	IO					1.52
2.833	0.00	0.20	0.106	IO					1.50
2.917	0.00	0.20	0.105	IO					1.49
3.000	0.00	0.20	0.103	IO					1.47
3.083	0.00	0.20	0.102	IO					1.45
3.167	0.00	0.20	0.101	IO					1.44
3.250	0.00	0.20	0.099	IO					1.42
3.333	0.00	0.20	0.098	IO					1.40
3.417	0.00	0.20	0.097	IO					1.39
3.500	0.00	0.20	0.095	IO					1.37
3.583	0.00	0.20	0.094	IO					1.35
3.667	0.00	0.20	0.093	IO					1.34
3.750	0.00	0.20	0.091	IO					1.32
3.833	0.00	0.20	0.090	IO					1.30
3.917	0.00	0.20	0.089	IO					1.29
4.000	0.00	0.20	0.087	IO					1.27

4.083	0.00	0.20	0.086	IO					1.25
4.167	0.00	0.20	0.085	IO					1.24
4.250	0.00	0.20	0.083	IO					1.22
4.333	0.00	0.20	0.082	IO					1.21
4.417	0.00	0.20	0.080	IO					1.19
4.500	0.00	0.20	0.079	IO					1.17
4.583	0.00	0.20	0.078	IO					1.16
4.667	0.00	0.20	0.076	IO					1.14
4.750	0.00	0.20	0.075	IO					1.12
4.833	0.00	0.20	0.074	IO					1.11
4.917	0.00	0.20	0.072	IO					1.09
5.000	0.00	0.20	0.071	IO					1.07
5.083	0.00	0.20	0.070	IO					1.06
5.167	0.00	0.20	0.068	IO					1.04
5.250	0.00	0.20	0.067	IO					1.02
5.333	0.00	0.20	0.066	IO					1.01
5.417	0.00	0.19	0.064	IO					0.99
5.500	0.00	0.19	0.063	IO					0.97
5.583	0.00	0.18	0.062	IO					0.95
5.667	0.00	0.17	0.061	IO					0.94
5.750	0.00	0.16	0.059	IO					0.92
5.833	0.00	0.16	0.058	IO					0.90
5.917	0.00	0.15	0.057	IO					0.89
6.000	0.00	0.15	0.056	IO					0.87
6.083	0.00	0.14	0.055	0					0.86
6.167	0.00	0.14	0.054	0					0.85
6.250	0.00	0.13	0.053	0					0.83
6.333	0.00	0.13	0.052	0					0.82
6.417	0.00	0.12	0.052	0					0.81
6.500	0.00	0.12	0.051	0					0.80
6.583	0.00	0.11	0.050	0					0.79
6.667	0.00	0.11	0.049	0					0.77
6.750	0.00	0.10	0.048	0					0.76
6.833	0.00	0.10	0.048	0					0.75
6.917	0.00	0.10	0.047	0					0.74
7.000	0.00	0.09	0.046	0					0.74
7.083	0.00	0.09	0.046	0					0.73
7.167	0.00	0.09	0.045	0					0.72
7.250	0.00	0.08	0.045	0					0.71
7.333	0.00	0.08	0.044	0					0.70
7.417	0.00	0.08	0.044	0					0.69
7.500	0.00	0.07	0.043	0					0.69
7.583	0.00	0.07	0.043	0					0.68
7.667	0.00	0.07	0.042	0					0.67
7.750	0.00	0.07	0.042	0					0.67
7.833	0.00	0.06	0.041	0					0.66
7.917	0.00	0.06	0.041	0					0.65
8.000	0.00	0.06	0.040	0					0.65
8.083	0.00	0.06	0.040	0					0.64
8.167	0.00	0.05	0.040	0					0.64

8.250	0.00	0.05	0.039	0					0.63
8.333	0.00	0.05	0.039	0					0.63
8.417	0.00	0.05	0.039	0					0.62
8.500	0.00	0.05	0.038	0					0.62
8.583	0.00	0.04	0.038	0					0.61
8.667	0.00	0.04	0.038	0					0.61
8.750	0.00	0.04	0.037	0					0.60
8.833	0.00	0.04	0.037	0					0.60
8.917	0.00	0.04	0.037	0					0.60
9.000	0.00	0.04	0.037	0					0.59
9.083	0.00	0.04	0.036	0					0.59
9.167	0.00	0.03	0.036	0					0.59
9.250	0.00	0.03	0.036	0					0.58
9.333	0.00	0.03	0.036	0					0.58
9.417	0.00	0.03	0.035	0					0.58
9.500	0.00	0.03	0.035	0					0.57
9.583	0.00	0.03	0.035	0					0.57
9.667	0.00	0.03	0.035	0					0.57
9.750	0.00	0.03	0.035	0					0.57
9.833	0.00	0.02	0.034	0					0.56
9.917	0.00	0.02	0.034	0					0.56
10.000	0.00	0.02	0.034	0					0.56
10.083	0.00	0.02	0.034	0					0.56
10.167	0.00	0.02	0.034	0					0.55
10.250	0.00	0.02	0.034	0					0.55
10.333	0.00	0.02	0.034	0					0.55
10.417	0.00	0.02	0.033	0					0.55
10.500	0.00	0.02	0.033	0					0.55
10.583	0.00	0.02	0.033	0					0.54
10.667	0.00	0.02	0.033	0					0.54
10.750	0.00	0.02	0.033	0					0.54
10.833	0.00	0.02	0.033	0					0.54
10.917	0.00	0.02	0.033	0					0.54
11.000	0.00	0.01	0.033	0					0.54
11.083	0.00	0.01	0.032	0					0.54
11.167	0.00	0.01	0.032	0					0.53
11.250	0.00	0.01	0.032	0					0.53
11.333	0.00	0.01	0.032	0					0.53
11.417	0.00	0.01	0.032	0					0.53
11.500	0.00	0.01	0.032	0					0.53
11.583	0.00	0.01	0.032	0					0.53
11.667	0.00	0.01	0.032	0					0.53
11.750	0.00	0.01	0.032	0					0.53
11.833	0.00	0.01	0.032	0					0.52
11.917	0.00	0.01	0.032	0					0.52
12.000	0.00	0.01	0.032	0					0.52
12.083	0.00	0.01	0.032	0					0.52
12.167	0.00	0.01	0.031	0					0.52
12.250	0.00	0.01	0.031	0					0.52
12.333	0.00	0.01	0.031	0					0.52

12.417	0.00	0.01	0.031	0					0.52
12.500	0.00	0.01	0.031	0					0.52
12.583	0.00	0.01	0.031	0					0.52
12.667	0.00	0.01	0.031	0					0.52
12.750	0.00	0.01	0.031	0					0.52
12.833	0.00	0.01	0.031	0					0.52
12.917	0.00	0.01	0.031	0					0.52
13.000	0.00	0.01	0.031	0					0.51
13.083	0.00	0.01	0.031	0					0.51
13.167	0.00	0.01	0.031	0					0.51
13.250	0.00	0.01	0.031	0					0.51
13.333	0.00	0.00	0.031	0					0.51
13.417	0.00	0.00	0.031	0					0.51
13.500	0.00	0.00	0.031	0					0.51
13.583	0.00	0.00	0.031	0					0.51
13.667	0.00	0.00	0.031	0					0.51
13.750	0.00	0.00	0.031	0					0.51
13.833	0.00	0.00	0.031	0					0.51
13.917	0.00	0.00	0.031	0					0.51
14.000	0.00	0.00	0.031	0					0.51
14.083	0.00	0.00	0.031	0					0.51
14.167	0.00	0.00	0.031	0					0.51
14.250	0.00	0.00	0.031	0					0.51
14.333	0.00	0.00	0.031	0					0.51
14.417	0.00	0.00	0.031	0					0.51
14.500	0.00	0.00	0.031	0					0.51
14.583	0.00	0.00	0.030	0					0.51
14.667	0.00	0.00	0.030	0					0.51
14.750	0.00	0.00	0.030	0					0.51
14.833	0.00	0.00	0.030	0					0.51
14.917	0.00	0.00	0.030	0					0.51
15.000	0.00	0.00	0.030	0					0.51
15.083	0.00	0.00	0.030	0					0.51
15.167	0.00	0.00	0.030	0					0.51
15.250	0.00	0.00	0.030	0					0.51
15.333	0.00	0.00	0.030	0					0.50
15.417	0.00	0.00	0.030	0					0.50
15.500	0.00	0.00	0.030	0					0.50
15.583	0.00	0.00	0.030	0					0.50
15.667	0.00	0.00	0.030	0					0.50
15.750	0.00	0.00	0.030	0					0.50
15.833	0.00	0.00	0.030	0					0.50
15.917	0.00	0.00	0.030	0					0.50
16.000	0.00	0.00	0.030	0					0.50
16.083	0.00	0.00	0.030	0					0.50
16.167	0.00	0.00	0.030	0					0.50
16.250	0.00	0.00	0.030	0					0.50
16.333	0.00	0.00	0.030	0					0.50
16.417	0.00	0.00	0.030	0					0.50
16.500	0.00	0.00	0.030	0					0.50

16.583	0.00	0.00	0.030	0					0.50
16.667	0.00	0.00	0.030	0					0.50
16.750	0.00	0.00	0.030	0					0.50
16.833	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 202

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.112 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 3 100YR-3HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH3100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 37
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.587 (CFS)
Total volume = 0.215 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.))

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 37
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.6	1.29	1.94	2.59	Depth (Ft.)
0.083	0.26	0.00	0.001	0	I				0.01
0.167	0.37	0.00	0.003	0	I				0.05
0.250	0.33	0.00	0.005	0	I				0.09
0.333	0.40	0.00	0.008	0	I				0.13
0.417	0.44	0.00	0.011	0	I				0.18
0.500	0.51	0.00	0.014	0	I				0.24
0.583	0.47	0.00	0.018	0	I				0.29
0.667	0.51	0.00	0.021	0	I				0.35
0.750	0.54	0.00	0.025	0	I				0.41
0.833	0.47	0.00	0.028	0	I				0.47
0.917	0.46	0.01	0.031	0	I				0.52
1.000	0.52	0.03	0.035	0	I				0.56
1.083	0.63	0.05	0.038	0	I				0.62
1.167	0.68	0.07	0.042	0	I				0.68
1.250	0.68	0.09	0.046	0	I				0.73
1.333	0.63	0.11	0.050	0	I				0.79
1.417	0.75	0.14	0.054	0	I				0.84
1.500	0.83	0.16	0.059	0	I				0.91
1.583	0.77	0.18	0.063	0	I				0.97
1.667	0.81	0.20	0.067	0	I				1.02
1.750	0.98	0.20	0.072	0	I				1.08
1.833	1.00	0.20	0.077	0	I				1.15
1.917	0.93	0.20	0.083	0	I				1.21
2.000	0.93	0.20	0.088	0	I				1.28
2.083	0.97	0.20	0.093	0	I				1.34
2.167	1.23	0.20	0.099	0	I				1.41
2.250	1.53	0.20	0.107	0	I				1.51
2.333	1.27	0.20	0.115	0	I				1.60
2.417	1.87	0.20	0.125	0	I				1.70
2.500	2.33	0.20	0.138	0	I				1.85
2.583	2.59	0.20	0.154	0	I				2.01
2.667	2.15	0.20	0.168	0	I				2.16
2.750	1.02	0.20	0.178	0	I				2.25
2.833	0.56	0.20	0.182	0	I				2.29
2.917	0.54	0.20	0.185	0	I				2.31
3.000	0.28	0.20	0.186	0	I				2.33
3.083	0.05	0.20	0.186	I	0				2.33
3.167	0.00	0.20	0.185	I	0				2.31
3.250	0.00	0.20	0.183	I	0				2.30
3.333	0.00	0.20	0.182	I	0				2.29
3.417	0.00	0.20	0.181	I	0				2.28
3.500	0.00	0.20	0.179	I	0				2.26
3.583	0.00	0.20	0.178	I	0				2.25
3.667	0.00	0.20	0.177	I	0				2.24
3.750	0.00	0.20	0.175	I	0				2.22
3.833	0.00	0.20	0.174	I	0				2.21
3.917	0.00	0.20	0.173	I	0				2.20
4.000	0.00	0.20	0.171	I	0				2.18

4.083	0.00	0.20	0.170	I 0					2.17
4.167	0.00	0.20	0.168	I 0					2.16
4.250	0.00	0.20	0.167	I 0					2.15
4.333	0.00	0.20	0.166	I 0					2.13
4.417	0.00	0.20	0.164	I 0					2.12
4.500	0.00	0.20	0.163	I 0					2.11
4.583	0.00	0.20	0.162	I 0					2.09
4.667	0.00	0.20	0.160	I 0					2.08
4.750	0.00	0.20	0.159	I 0					2.07
4.833	0.00	0.20	0.158	I 0					2.05
4.917	0.00	0.20	0.156	I 0					2.04
5.000	0.00	0.20	0.155	I 0					2.03
5.083	0.00	0.20	0.154	I 0					2.02
5.167	0.00	0.20	0.152	I 0					2.00
5.250	0.00	0.20	0.151	I 0					1.99
5.333	0.00	0.20	0.150	I 0					1.97
5.417	0.00	0.20	0.148	I 0					1.96
5.500	0.00	0.20	0.147	I 0					1.94
5.583	0.00	0.20	0.145	I 0					1.93
5.667	0.00	0.20	0.144	I 0					1.91
5.750	0.00	0.20	0.143	I 0					1.90
5.833	0.00	0.20	0.141	I 0					1.88
5.917	0.00	0.20	0.140	I 0					1.87
6.000	0.00	0.20	0.139	I 0					1.86
6.083	0.00	0.20	0.137	I 0					1.84
6.167	0.00	0.20	0.136	I 0					1.83
6.250	0.00	0.20	0.135	I 0					1.81
6.333	0.00	0.20	0.133	I 0					1.80
6.417	0.00	0.20	0.132	I 0					1.78
6.500	0.00	0.20	0.131	I 0					1.77
6.583	0.00	0.20	0.129	I 0					1.75
6.667	0.00	0.20	0.128	I 0					1.74
6.750	0.00	0.20	0.127	I 0					1.72
6.833	0.00	0.20	0.125	I 0					1.71
6.917	0.00	0.20	0.124	I 0					1.69
7.000	0.00	0.20	0.122	I 0					1.68
7.083	0.00	0.20	0.121	I 0					1.66
7.167	0.00	0.20	0.120	I 0					1.65
7.250	0.00	0.20	0.118	I 0					1.63
7.333	0.00	0.20	0.117	I 0					1.62
7.417	0.00	0.20	0.116	I 0					1.61
7.500	0.00	0.20	0.114	I 0					1.59
7.583	0.00	0.20	0.113	I 0					1.58
7.667	0.00	0.20	0.112	I 0					1.56
7.750	0.00	0.20	0.110	I 0					1.55
7.833	0.00	0.20	0.109	I 0					1.53
7.917	0.00	0.20	0.108	I 0					1.52
8.000	0.00	0.20	0.106	I 0					1.50
8.083	0.00	0.20	0.105	I 0					1.49
8.167	0.00	0.20	0.104	I 0					1.47

8.250	0.00	0.20	0.102	I 0					1.45
8.333	0.00	0.20	0.101	I 0					1.44
8.417	0.00	0.20	0.099	I 0					1.42
8.500	0.00	0.20	0.098	I 0					1.40
8.583	0.00	0.20	0.097	I 0					1.39
8.667	0.00	0.20	0.095	I 0					1.37
8.750	0.00	0.20	0.094	I 0					1.35
8.833	0.00	0.20	0.093	I 0					1.34
8.917	0.00	0.20	0.091	I 0					1.32
9.000	0.00	0.20	0.090	I 0					1.31
9.083	0.00	0.20	0.089	I 0					1.29
9.167	0.00	0.20	0.087	I 0					1.27
9.250	0.00	0.20	0.086	I 0					1.26
9.333	0.00	0.20	0.085	I 0					1.24
9.417	0.00	0.20	0.083	I 0					1.22
9.500	0.00	0.20	0.082	I 0					1.21
9.583	0.00	0.20	0.081	I 0					1.19
9.667	0.00	0.20	0.079	I 0					1.17
9.750	0.00	0.20	0.078	I 0					1.16
9.833	0.00	0.20	0.076	I 0					1.14
9.917	0.00	0.20	0.075	I 0					1.12
10.000	0.00	0.20	0.074	I 0					1.11
10.083	0.00	0.20	0.072	I 0					1.09
10.167	0.00	0.20	0.071	I 0					1.07
10.250	0.00	0.20	0.070	I 0					1.06
10.333	0.00	0.20	0.068	I 0					1.04
10.417	0.00	0.20	0.067	I 0					1.02
10.500	0.00	0.20	0.066	I 0					1.01
10.583	0.00	0.19	0.064	I 0					0.99
10.667	0.00	0.19	0.063	I 0					0.97
10.750	0.00	0.18	0.062	I 0					0.95
10.833	0.00	0.17	0.061	I 0					0.94
10.917	0.00	0.17	0.059	I 0					0.92
11.000	0.00	0.16	0.058	IO					0.90
11.083	0.00	0.15	0.057	IO					0.89
11.167	0.00	0.15	0.056	IO					0.87
11.250	0.00	0.14	0.055	IO					0.86
11.333	0.00	0.14	0.054	IO					0.85
11.417	0.00	0.13	0.053	IO					0.83
11.500	0.00	0.13	0.052	IO					0.82
11.583	0.00	0.12	0.052	IO					0.81
11.667	0.00	0.12	0.051	IO					0.80
11.750	0.00	0.11	0.050	IO					0.79
11.833	0.00	0.11	0.049	IO					0.77
11.917	0.00	0.10	0.049	IO					0.76
12.000	0.00	0.10	0.048	IO					0.75
12.083	0.00	0.10	0.047	IO					0.74
12.167	0.00	0.09	0.046	IO					0.74
12.250	0.00	0.09	0.046	IO					0.73
12.333	0.00	0.09	0.045	IO					0.72

12.417	0.00	0.08	0.045	IO					0.71
12.500	0.00	0.08	0.044	0					0.70
12.583	0.00	0.08	0.044	0					0.69
12.667	0.00	0.07	0.043	0					0.69
12.750	0.00	0.07	0.043	0					0.68
12.833	0.00	0.07	0.042	0					0.67
12.917	0.00	0.07	0.042	0					0.67
13.000	0.00	0.06	0.041	0					0.66
13.083	0.00	0.06	0.041	0					0.65
13.167	0.00	0.06	0.040	0					0.65
13.250	0.00	0.06	0.040	0					0.64
13.333	0.00	0.05	0.040	0					0.64
13.417	0.00	0.05	0.039	0					0.63
13.500	0.00	0.05	0.039	0					0.63
13.583	0.00	0.05	0.039	0					0.62
13.667	0.00	0.05	0.038	0					0.62
13.750	0.00	0.04	0.038	0					0.61
13.833	0.00	0.04	0.038	0					0.61
13.917	0.00	0.04	0.037	0					0.60
14.000	0.00	0.04	0.037	0					0.60
14.083	0.00	0.04	0.037	0					0.60
14.167	0.00	0.04	0.037	0					0.59
14.250	0.00	0.04	0.036	0					0.59
14.333	0.00	0.03	0.036	0					0.59
14.417	0.00	0.03	0.036	0					0.58
14.500	0.00	0.03	0.036	0					0.58
14.583	0.00	0.03	0.035	0					0.58
14.667	0.00	0.03	0.035	0					0.57
14.750	0.00	0.03	0.035	0					0.57
14.833	0.00	0.03	0.035	0					0.57
14.917	0.00	0.03	0.035	0					0.57
15.000	0.00	0.02	0.034	0					0.56
15.083	0.00	0.02	0.034	0					0.56
15.167	0.00	0.02	0.034	0					0.56
15.250	0.00	0.02	0.034	0					0.56
15.333	0.00	0.02	0.034	0					0.55
15.417	0.00	0.02	0.034	0					0.55
15.500	0.00	0.02	0.034	0					0.55
15.583	0.00	0.02	0.033	0					0.55
15.667	0.00	0.02	0.033	0					0.55
15.750	0.00	0.02	0.033	0					0.54
15.833	0.00	0.02	0.033	0					0.54
15.917	0.00	0.02	0.033	0					0.54
16.000	0.00	0.02	0.033	0					0.54
16.083	0.00	0.02	0.033	0					0.54
16.167	0.00	0.01	0.033	0					0.54
16.250	0.00	0.01	0.032	0					0.54
16.333	0.00	0.01	0.032	0					0.53
16.417	0.00	0.01	0.032	0					0.53
16.500	0.00	0.01	0.032	0					0.53

16.583	0.00	0.01	0.032	0				0.53
16.667	0.00	0.01	0.032	0				0.53
16.750	0.00	0.01	0.032	0				0.53
16.833	0.00	0.01	0.032	0				0.53
16.917	0.00	0.01	0.032	0				0.53
17.000	0.00	0.01	0.032	0				0.53
17.083	0.00	0.01	0.032	0				0.52
17.167	0.00	0.01	0.032	0				0.52
17.250	0.00	0.01	0.032	0				0.52
17.333	0.00	0.01	0.032	0				0.52
17.417	0.00	0.01	0.031	0				0.52
17.500	0.00	0.01	0.031	0				0.52
17.583	0.00	0.01	0.031	0				0.52
17.667	0.00	0.01	0.031	0				0.52
17.750	0.00	0.01	0.031	0				0.52
17.833	0.00	0.01	0.031	0				0.52
17.917	0.00	0.01	0.031	0				0.52
18.000	0.00	0.01	0.031	0				0.52
18.083	0.00	0.01	0.031	0				0.52
18.167	0.00	0.01	0.031	0				0.51
18.250	0.00	0.01	0.031	0				0.51
18.333	0.00	0.01	0.031	0				0.51
18.417	0.00	0.01	0.031	0				0.51
18.500	0.00	0.00	0.031	0				0.51
18.583	0.00	0.00	0.031	0				0.51
18.667	0.00	0.00	0.031	0				0.51
18.750	0.00	0.00	0.031	0				0.51
18.833	0.00	0.00	0.031	0				0.51
18.917	0.00	0.00	0.031	0				0.51
19.000	0.00	0.00	0.031	0				0.51
19.083	0.00	0.00	0.031	0				0.51
19.167	0.00	0.00	0.031	0				0.51
19.250	0.00	0.00	0.031	0				0.51
19.333	0.00	0.00	0.031	0				0.51
19.417	0.00	0.00	0.031	0				0.51
19.500	0.00	0.00	0.031	0				0.51
19.583	0.00	0.00	0.031	0				0.51
19.667	0.00	0.00	0.031	0				0.51
19.750	0.00	0.00	0.030	0				0.51
19.833	0.00	0.00	0.030	0				0.51
19.917	0.00	0.00	0.030	0				0.51
20.000	0.00	0.00	0.030	0				0.51
20.083	0.00	0.00	0.030	0				0.51
20.167	0.00	0.00	0.030	0				0.51
20.250	0.00	0.00	0.030	0				0.51
20.333	0.00	0.00	0.030	0				0.51
20.417	0.00	0.00	0.030	0				0.51
20.500	0.00	0.00	0.030	0				0.50
20.583	0.00	0.00	0.030	0				0.50
20.667	0.00	0.00	0.030	0				0.50

20.750	0.00	0.00	0.030	0					0.50
20.833	0.00	0.00	0.030	0					0.50
20.917	0.00	0.00	0.030	0					0.50
21.000	0.00	0.00	0.030	0					0.50
21.083	0.00	0.00	0.030	0					0.50
21.167	0.00	0.00	0.030	0					0.50
21.250	0.00	0.00	0.030	0					0.50
21.333	0.00	0.00	0.030	0					0.50
21.417	0.00	0.00	0.030	0					0.50
21.500	0.00	0.00	0.030	0					0.50
21.583	0.00	0.00	0.030	0					0.50
21.667	0.00	0.00	0.030	0					0.50
21.750	0.00	0.00	0.030	0					0.50
21.833	0.00	0.00	0.030	0					0.50
21.917	0.00	0.00	0.030	0					0.50
22.000	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

```

*****HYDROGRAPH DATA*****
      Number of intervals = 264
      Time interval = 5.0 (Min.)
      Maximum/Peak flow rate = 0.196 (CFS)
      Total volume = 0.185 (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 - 2018
Study date: 08/24/22

A21626 DMA 3 100YR-6HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH6100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 73
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 2.401 (CFS)
Total volume = 0.290 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 73
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.6	1.20	1.80	2.40	Depth (Ft.)
0.083	0.13	0.00	0.000	O I					0.01
0.167	0.21	0.00	0.002	O I					0.03
0.250	0.22	0.00	0.003	O I					0.05
0.333	0.22	0.00	0.005	O I					0.08
0.417	0.22	0.00	0.006	O I					0.10
0.500	0.25	0.00	0.008	O I					0.13
0.583	0.26	0.00	0.010	O I					0.16
0.667	0.26	0.00	0.011	O I					0.19
0.750	0.26	0.00	0.013	O I					0.22
0.833	0.26	0.00	0.015	O I					0.25
0.917	0.26	0.00	0.017	O I					0.28
1.000	0.30	0.00	0.019	O I					0.31
1.083	0.31	0.00	0.021	O I					0.35
1.167	0.31	0.00	0.023	O I					0.38
1.250	0.31	0.00	0.025	O I					0.42
1.333	0.31	0.00	0.027	O I					0.45
1.417	0.31	0.00	0.029	O I					0.49
1.500	0.31	0.01	0.031	O I					0.52
1.583	0.31	0.02	0.033	O I					0.55
1.667	0.31	0.03	0.035	O I					0.58
1.750	0.31	0.04	0.037	O I					0.60
1.833	0.31	0.05	0.039	O I					0.63
1.917	0.31	0.06	0.041	O I					0.66
2.000	0.34	0.07	0.043	O I					0.68
2.083	0.32	0.08	0.044	O I					0.71
2.167	0.34	0.09	0.046	O I					0.73
2.250	0.36	0.10	0.048	O I					0.76
2.333	0.36	0.11	0.050	O I					0.78
2.417	0.36	0.12	0.051	O I					0.80
2.500	0.36	0.13	0.053	O I					0.83
2.583	0.36	0.14	0.054	O I					0.85
2.667	0.36	0.15	0.056	O I					0.87
2.750	0.39	0.15	0.057	O I					0.89
2.833	0.40	0.16	0.059	O I					0.92
2.917	0.40	0.17	0.061	O I					0.94
3.000	0.40	0.18	0.062	O I					0.96
3.083	0.40	0.19	0.064	O I					0.98
3.167	0.43	0.20	0.065	O I					1.00
3.250	0.45	0.20	0.067	O I					1.02
3.333	0.45	0.20	0.069	O I					1.05
3.417	0.48	0.20	0.071	O I					1.07
3.500	0.53	0.20	0.073	O I					1.09
3.583	0.57	0.20	0.075	O I					1.12
3.667	0.59	0.20	0.078	O I					1.16
3.750	0.62	0.20	0.081	O I					1.19
3.833	0.63	0.20	0.084	O I					1.23
3.917	0.67	0.20	0.087	O I					1.26
4.000	0.68	0.20	0.090	O I					1.30

4.083	0.71	0.20	0.093	0	I					1.35
4.167	0.76	0.20	0.097	0	I					1.39
4.250	0.80	0.20	0.101	0	I					1.44
4.333	0.85	0.20	0.105	0	I					1.49
4.417	0.90	0.20	0.110	0	I					1.55
4.500	0.91	0.20	0.115	0	I					1.60
4.583	0.94	0.20	0.120	0	I					1.65
4.667	0.99	0.20	0.125	0	I					1.71
4.750	1.04	0.20	0.131	0	I					1.77
4.833	1.05	0.20	0.137	0	I					1.84
4.917	1.08	0.20	0.143	0	I					1.90
5.000	1.13	0.20	0.149	0	I					1.97
5.083	1.30	0.20	0.156	0		I				2.04
5.167	1.53	0.20	0.165	0			I			2.12
5.250	1.70	0.20	0.174	0				I		2.21
5.333	1.84	0.20	0.185	0					I	2.32
5.417	2.04	0.20	0.197	0					I	2.43
5.500	2.40	0.20	0.211	0						2.56
5.583	1.36	0.20	0.223	0		I				2.66
5.667	0.50	0.20	0.228	0	I					2.70
5.750	0.26	0.20	0.229	0I						2.72
5.833	0.20	0.20	0.229	0						2.72
5.917	0.13	0.20	0.229	IO						2.72
6.000	0.09	0.20	0.228	IO						2.71
6.083	0.02	0.20	0.227	I 0						2.70
6.167	0.00	0.20	0.226	I 0						2.69
6.250	0.00	0.20	0.225	I 0						2.68
6.333	0.00	0.20	0.223	I 0						2.67
6.417	0.00	0.20	0.222	I 0						2.66
6.500	0.00	0.20	0.221	I 0						2.64
6.583	0.00	0.20	0.219	I 0						2.63
6.667	0.00	0.20	0.218	I 0						2.62
6.750	0.00	0.20	0.217	I 0						2.61
6.833	0.00	0.20	0.215	I 0						2.60
6.917	0.00	0.20	0.214	I 0						2.59
7.000	0.00	0.20	0.213	I 0						2.57
7.083	0.00	0.20	0.211	I 0						2.56
7.167	0.00	0.20	0.210	I 0						2.55
7.250	0.00	0.20	0.209	I 0						2.54
7.333	0.00	0.20	0.207	I 0						2.53
7.417	0.00	0.20	0.206	I 0						2.52
7.500	0.00	0.20	0.205	I 0						2.50
7.583	0.00	0.20	0.203	I 0						2.49
7.667	0.00	0.20	0.202	I 0						2.48
7.750	0.00	0.20	0.201	I 0						2.47
7.833	0.00	0.20	0.199	I 0						2.45
7.917	0.00	0.20	0.198	I 0						2.44
8.000	0.00	0.20	0.196	I 0						2.43
8.083	0.00	0.20	0.195	I 0						2.41
8.167	0.00	0.20	0.194	I 0						2.40

8.250	0.00	0.20	0.192	I 0					2.39
8.333	0.00	0.20	0.191	I 0					2.38
8.417	0.00	0.20	0.190	I 0					2.36
8.500	0.00	0.20	0.188	I 0					2.35
8.583	0.00	0.20	0.187	I 0					2.34
8.667	0.00	0.20	0.186	I 0					2.32
8.750	0.00	0.20	0.184	I 0					2.31
8.833	0.00	0.20	0.183	I 0					2.30
8.917	0.00	0.20	0.182	I 0					2.28
9.000	0.00	0.20	0.180	I 0					2.27
9.083	0.00	0.20	0.179	I 0					2.26
9.167	0.00	0.20	0.178	I 0					2.25
9.250	0.00	0.20	0.176	I 0					2.23
9.333	0.00	0.20	0.175	I 0					2.22
9.417	0.00	0.20	0.173	I 0					2.21
9.500	0.00	0.20	0.172	I 0					2.19
9.583	0.00	0.20	0.171	I 0					2.18
9.667	0.00	0.20	0.169	I 0					2.17
9.750	0.00	0.20	0.168	I 0					2.15
9.833	0.00	0.20	0.167	I 0					2.14
9.917	0.00	0.20	0.165	I 0					2.13
10.000	0.00	0.20	0.164	I 0					2.12
10.083	0.00	0.20	0.163	I 0					2.10
10.167	0.00	0.20	0.161	I 0					2.09
10.250	0.00	0.20	0.160	I 0					2.08
10.333	0.00	0.20	0.159	I 0					2.06
10.417	0.00	0.20	0.157	I 0					2.05
10.500	0.00	0.20	0.156	I 0					2.04
10.583	0.00	0.20	0.155	I 0					2.02
10.667	0.00	0.20	0.153	I 0					2.01
10.750	0.00	0.20	0.152	I 0					2.00
10.833	0.00	0.20	0.150	I 0					1.98
10.917	0.00	0.20	0.149	I 0					1.97
11.000	0.00	0.20	0.148	I 0					1.95
11.083	0.00	0.20	0.146	I 0					1.94
11.167	0.00	0.20	0.145	I 0					1.92
11.250	0.00	0.20	0.144	I 0					1.91
11.333	0.00	0.20	0.142	I 0					1.90
11.417	0.00	0.20	0.141	I 0					1.88
11.500	0.00	0.20	0.140	I 0					1.87
11.583	0.00	0.20	0.138	I 0					1.85
11.667	0.00	0.20	0.137	I 0					1.84
11.750	0.00	0.20	0.136	I 0					1.82
11.833	0.00	0.20	0.134	I 0					1.81
11.917	0.00	0.20	0.133	I 0					1.79
12.000	0.00	0.20	0.132	I 0					1.78
12.083	0.00	0.20	0.130	I 0					1.76
12.167	0.00	0.20	0.129	I 0					1.75
12.250	0.00	0.20	0.127	I 0					1.73
12.333	0.00	0.20	0.126	I 0					1.72

12.417	0.00	0.20	0.125	I 0					1.70
12.500	0.00	0.20	0.123	I 0					1.69
12.583	0.00	0.20	0.122	I 0					1.67
12.667	0.00	0.20	0.121	I 0					1.66
12.750	0.00	0.20	0.119	I 0					1.65
12.833	0.00	0.20	0.118	I 0					1.63
12.917	0.00	0.20	0.117	I 0					1.62
13.000	0.00	0.20	0.115	I 0					1.60
13.083	0.00	0.20	0.114	I 0					1.59
13.167	0.00	0.20	0.113	I 0					1.57
13.250	0.00	0.20	0.111	I 0					1.56
13.333	0.00	0.20	0.110	I 0					1.54
13.417	0.00	0.20	0.109	I 0					1.53
13.500	0.00	0.20	0.107	I 0					1.51
13.583	0.00	0.20	0.106	I 0					1.50
13.667	0.00	0.20	0.104	I 0					1.48
13.750	0.00	0.20	0.103	I 0					1.47
13.833	0.00	0.20	0.102	I 0					1.45
13.917	0.00	0.20	0.100	I 0					1.43
14.000	0.00	0.20	0.099	I 0					1.42
14.083	0.00	0.20	0.098	I 0					1.40
14.167	0.00	0.20	0.096	I 0					1.38
14.250	0.00	0.20	0.095	I 0					1.37
14.333	0.00	0.20	0.094	I 0					1.35
14.417	0.00	0.20	0.092	I 0					1.33
14.500	0.00	0.20	0.091	I 0					1.32
14.583	0.00	0.20	0.090	I 0					1.30
14.667	0.00	0.20	0.088	I 0					1.28
14.750	0.00	0.20	0.087	I 0					1.27
14.833	0.00	0.20	0.086	I 0					1.25
14.917	0.00	0.20	0.084	I 0					1.23
15.000	0.00	0.20	0.083	I 0					1.22
15.083	0.00	0.20	0.082	I 0					1.20
15.167	0.00	0.20	0.080	I 0					1.18
15.250	0.00	0.20	0.079	I 0					1.17
15.333	0.00	0.20	0.077	I 0					1.15
15.417	0.00	0.20	0.076	I 0					1.14
15.500	0.00	0.20	0.075	I 0					1.12
15.583	0.00	0.20	0.073	I 0					1.10
15.667	0.00	0.20	0.072	I 0					1.09
15.750	0.00	0.20	0.071	I 0					1.07
15.833	0.00	0.20	0.069	I 0					1.05
15.917	0.00	0.20	0.068	I 0					1.04
16.000	0.00	0.20	0.067	I 0					1.02
16.083	0.00	0.20	0.065	I 0					1.00
16.167	0.00	0.19	0.064	I 0					0.98
16.250	0.00	0.18	0.063	I 0					0.97
16.333	0.00	0.18	0.061	I 0					0.95
16.417	0.00	0.17	0.060	I 0					0.93
16.500	0.00	0.16	0.059	I 0					0.92

16.583	0.00	0.16	0.058	I 0					0.90
16.667	0.00	0.15	0.057	I 0					0.88
16.750	0.00	0.15	0.056	IO					0.87
16.833	0.00	0.14	0.055	IO					0.86
16.917	0.00	0.13	0.054	IO					0.84
17.000	0.00	0.13	0.053	IO					0.83
17.083	0.00	0.12	0.052	IO					0.82
17.167	0.00	0.12	0.051	IO					0.80
17.250	0.00	0.12	0.051	IO					0.79
17.333	0.00	0.11	0.050	IO					0.78
17.417	0.00	0.11	0.049	IO					0.77
17.500	0.00	0.10	0.048	IO					0.76
17.583	0.00	0.10	0.048	IO					0.75
17.667	0.00	0.09	0.047	IO					0.74
17.750	0.00	0.09	0.046	IO					0.73
17.833	0.00	0.09	0.046	IO					0.72
17.917	0.00	0.08	0.045	IO					0.72
18.000	0.00	0.08	0.045	IO					0.71
18.083	0.00	0.08	0.044	IO					0.70
18.167	0.00	0.08	0.043	IO					0.69
18.250	0.00	0.07	0.043	0					0.68
18.333	0.00	0.07	0.042	0					0.68
18.417	0.00	0.07	0.042	0					0.67
18.500	0.00	0.06	0.042	0					0.66
18.583	0.00	0.06	0.041	0					0.66
18.667	0.00	0.06	0.041	0					0.65
18.750	0.00	0.06	0.040	0					0.65
18.833	0.00	0.06	0.040	0					0.64
18.917	0.00	0.05	0.039	0					0.64
19.000	0.00	0.05	0.039	0					0.63
19.083	0.00	0.05	0.039	0					0.63
19.167	0.00	0.05	0.038	0					0.62
19.250	0.00	0.05	0.038	0					0.62
19.333	0.00	0.04	0.038	0					0.61
19.417	0.00	0.04	0.038	0					0.61
19.500	0.00	0.04	0.037	0					0.60
19.583	0.00	0.04	0.037	0					0.60
19.667	0.00	0.04	0.037	0					0.60
19.750	0.00	0.04	0.036	0					0.59
19.833	0.00	0.03	0.036	0					0.59
19.917	0.00	0.03	0.036	0					0.59
20.000	0.00	0.03	0.036	0					0.58
20.083	0.00	0.03	0.036	0					0.58
20.167	0.00	0.03	0.035	0					0.58
20.250	0.00	0.03	0.035	0					0.57
20.333	0.00	0.03	0.035	0					0.57
20.417	0.00	0.03	0.035	0					0.57
20.500	0.00	0.03	0.035	0					0.57
20.583	0.00	0.02	0.034	0					0.56
20.667	0.00	0.02	0.034	0					0.56

20.750	0.00	0.02	0.034	0					0.56
20.833	0.00	0.02	0.034	0					0.56
20.917	0.00	0.02	0.034	0					0.55
21.000	0.00	0.02	0.034	0					0.55
21.083	0.00	0.02	0.033	0					0.55
21.167	0.00	0.02	0.033	0					0.55
21.250	0.00	0.02	0.033	0					0.55
21.333	0.00	0.02	0.033	0					0.54
21.417	0.00	0.02	0.033	0					0.54
21.500	0.00	0.02	0.033	0					0.54
21.583	0.00	0.02	0.033	0					0.54
21.667	0.00	0.01	0.033	0					0.54
21.750	0.00	0.01	0.033	0					0.54
21.833	0.00	0.01	0.032	0					0.54
21.917	0.00	0.01	0.032	0					0.53
22.000	0.00	0.01	0.032	0					0.53
22.083	0.00	0.01	0.032	0					0.53
22.167	0.00	0.01	0.032	0					0.53
22.250	0.00	0.01	0.032	0					0.53
22.333	0.00	0.01	0.032	0					0.53
22.417	0.00	0.01	0.032	0					0.53
22.500	0.00	0.01	0.032	0					0.53
22.583	0.00	0.01	0.032	0					0.52
22.667	0.00	0.01	0.032	0					0.52
22.750	0.00	0.01	0.032	0					0.52
22.833	0.00	0.01	0.032	0					0.52
22.917	0.00	0.01	0.031	0					0.52
23.000	0.00	0.01	0.031	0					0.52
23.083	0.00	0.01	0.031	0					0.52
23.167	0.00	0.01	0.031	0					0.52
23.250	0.00	0.01	0.031	0					0.52
23.333	0.00	0.01	0.031	0					0.52
23.417	0.00	0.01	0.031	0					0.52
23.500	0.00	0.01	0.031	0					0.52
23.583	0.00	0.01	0.031	0					0.52
23.667	0.00	0.01	0.031	0					0.51
23.750	0.00	0.01	0.031	0					0.51
23.833	0.00	0.01	0.031	0					0.51
23.917	0.00	0.01	0.031	0					0.51
24.000	0.00	0.01	0.031	0					0.51
24.083	0.00	0.00	0.031	0					0.51
24.167	0.00	0.00	0.031	0					0.51
24.250	0.00	0.00	0.031	0					0.51
24.333	0.00	0.00	0.031	0					0.51
24.417	0.00	0.00	0.031	0					0.51
24.500	0.00	0.00	0.031	0					0.51
24.583	0.00	0.00	0.031	0					0.51
24.667	0.00	0.00	0.031	0					0.51
24.750	0.00	0.00	0.031	0					0.51
24.833	0.00	0.00	0.031	0					0.51

24.917	0.00	0.00	0.031	0					0.51
25.000	0.00	0.00	0.031	0					0.51
25.083	0.00	0.00	0.031	0					0.51
25.167	0.00	0.00	0.031	0					0.51
25.250	0.00	0.00	0.031	0					0.51
25.333	0.00	0.00	0.030	0					0.51
25.417	0.00	0.00	0.030	0					0.51
25.500	0.00	0.00	0.030	0					0.51
25.583	0.00	0.00	0.030	0					0.51
25.667	0.00	0.00	0.030	0					0.51
25.750	0.00	0.00	0.030	0					0.51
25.833	0.00	0.00	0.030	0					0.51
25.917	0.00	0.00	0.030	0					0.51
26.000	0.00	0.00	0.030	0					0.51
26.083	0.00	0.00	0.030	0					0.50
26.167	0.00	0.00	0.030	0					0.50
26.250	0.00	0.00	0.030	0					0.50
26.333	0.00	0.00	0.030	0					0.50
26.417	0.00	0.00	0.030	0					0.50
26.500	0.00	0.00	0.030	0					0.50
26.583	0.00	0.00	0.030	0					0.50
26.667	0.00	0.00	0.030	0					0.50
26.750	0.00	0.00	0.030	0					0.50
26.833	0.00	0.00	0.030	0					0.50
26.917	0.00	0.00	0.030	0					0.50
27.000	0.00	0.00	0.030	0					0.50
27.083	0.00	0.00	0.030	0					0.50
27.167	0.00	0.00	0.030	0					0.50
27.250	0.00	0.00	0.030	0					0.50
27.333	0.00	0.00	0.030	0					0.50
27.417	0.00	0.00	0.030	0					0.50
27.500	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

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

Number of intervals = 330

Time interval = 5.0 (Min.)

Maximum/Peak flow rate = 0.196 (CFS)

Total volume = 0.260 (Ac.Ft)

Status of hydrographs being held in storage

Stream 1 Stream 2 Stream 3 Stream 4 Stream 5

Peak (CFS) 0.000 0.000 0.000 0.000 0.000

Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 08/24/22

A21626 DMA 3 100YR-24HR BASIN

Program License Serial Number 6509

***** HYDROGRAPH INFORMATION *****

From study/file name: A21626DMA3Q100UH24100.rte
*****HYDROGRAPH DATA*****
Number of intervals = 289
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.881 (CFS)
Total volume = 0.494 (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 1.000
**** RETARDING BASIN ROUTING ****

Program computation of outflow v. depth

CALCULATED OUTFLOW DATA AT DEPTH = 0.50(Ft.)
Total outflow at this depth = 0.00(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 0.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 1.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 1.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 2.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 2.00(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.00(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth}^{0.5}$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,

flow capacity is being calculated using depth = diameter
Depth above pipe = 2.50(Ft.) Capacity = 0.20(CFS)

Total outflow at this depth = 0.20(CFS)

CALCULATED OUTFLOW DATA AT DEPTH = 3.50(Ft.)

Free outlet pipe flow: Pipe Diameter = 0.25(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Note: Depth of 0.25(Ft.) is greater than diameter of pipe,
flow capacity is being calculated using depth = diameter
Depth above pipe = 3.00(Ft.) Capacity = 0.20(CFS)

Free outlet pipe flow: Pipe Diameter = 1.00(Ft.)
Capacity = $8 * \text{Pipe area} * \text{depth} ^ 0.5$ (Using feet as units)
Depth above pipe = 0.50(Ft.) Capacity = 4.44(CFS)

Total outflow at this depth = 4.64(CFS)

Total number of inflow hydrograph intervals = 289
Hydrograph time unit = 5.000 (Min.)
Initial depth in storage basin = 0.00(Ft.)

Initial basin depth = 0.00 (Ft.)
Initial basin storage = 0.00 (Ac.Ft)
Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-0*dt/2) (Ac.Ft)	(S+0*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
0.500	0.030	0.000	0.030	0.030
1.000	0.065	0.196	0.064	0.066
1.500	0.106	0.196	0.105	0.107
2.000	0.152	0.196	0.151	0.153
2.500	0.204	0.196	0.203	0.205
3.000	0.262	0.196	0.261	0.263
3.500	0.326	4.639	0.310	0.342

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	0.2	0.44	0.66	0.88	Depth (Ft.)
0.083	0.03	0.00	0.000	OI					0.00
0.167	0.04	0.00	0.000	OI					0.01
0.250	0.04	0.00	0.001	OI					0.01
0.333	0.06	0.00	0.001	O I					0.02
0.417	0.07	0.00	0.001	O I					0.02
0.500	0.07	0.00	0.002	O I					0.03
0.583	0.07	0.00	0.002	O I					0.04
0.667	0.07	0.00	0.003	O I					0.05
0.750	0.07	0.00	0.003	O I					0.05
0.833	0.08	0.00	0.004	O I					0.06
0.917	0.09	0.00	0.004	O I					0.07
1.000	0.09	0.00	0.005	O I					0.08
1.083	0.07	0.00	0.005	O I					0.09
1.167	0.07	0.00	0.006	O I					0.10
1.250	0.07	0.00	0.006	O I					0.11
1.333	0.07	0.00	0.007	O I					0.11
1.417	0.07	0.00	0.007	O I					0.12
1.500	0.07	0.00	0.008	O I					0.13
1.583	0.07	0.00	0.008	O I					0.14
1.667	0.07	0.00	0.009	O I					0.14
1.750	0.07	0.00	0.009	O I					0.15
1.833	0.08	0.00	0.010	O I					0.16
1.917	0.09	0.00	0.010	O I					0.17
2.000	0.09	0.00	0.011	O I					0.18
2.083	0.09	0.00	0.011	O I					0.19
2.167	0.09	0.00	0.012	O I					0.20
2.250	0.09	0.00	0.013	O I					0.21
2.333	0.09	0.00	0.013	O I					0.22
2.417	0.09	0.00	0.014	O I					0.23
2.500	0.09	0.00	0.014	O I					0.24
2.583	0.10	0.00	0.015	O I					0.25
2.667	0.11	0.00	0.016	O I					0.26
2.750	0.11	0.00	0.017	O I					0.28
2.833	0.11	0.00	0.017	O I					0.29
2.917	0.11	0.00	0.018	O I					0.30
3.000	0.11	0.00	0.019	O I					0.31
3.083	0.11	0.00	0.020	O I					0.33
3.167	0.11	0.00	0.020	O I					0.34
3.250	0.11	0.00	0.021	O I					0.35
3.333	0.11	0.00	0.022	O I					0.36
3.417	0.11	0.00	0.023	O I					0.38
3.500	0.11	0.00	0.023	O I					0.39
3.583	0.11	0.00	0.024	O I					0.40
3.667	0.11	0.00	0.025	O I					0.41
3.750	0.11	0.00	0.026	O I					0.43
3.833	0.12	0.00	0.026	O I					0.44
3.917	0.13	0.00	0.027	O I					0.45
4.000	0.13	0.00	0.028	O I					0.47

4.083	0.13	0.00	0.029	0	I					0.48
4.167	0.13	0.00	0.030	0	I					0.50
4.250	0.13	0.00	0.031	0	I					0.51
4.333	0.15	0.01	0.032	0	I					0.52
4.417	0.15	0.01	0.033	0	I					0.54
4.500	0.15	0.02	0.034	0	I					0.55
4.583	0.15	0.03	0.034	0	I					0.56
4.667	0.15	0.03	0.035	0	I					0.58
4.750	0.15	0.03	0.036	0	I					0.59
4.833	0.17	0.04	0.037	0	I					0.60
4.917	0.17	0.04	0.038	0	I					0.61
5.000	0.17	0.05	0.039	0	I					0.63
5.083	0.14	0.05	0.040	0	I					0.64
5.167	0.13	0.06	0.040	0	I					0.64
5.250	0.13	0.06	0.041	0	I					0.65
5.333	0.15	0.06	0.041	0	I					0.66
5.417	0.15	0.07	0.042	0	I					0.67
5.500	0.15	0.07	0.042	0	I					0.68
5.583	0.17	0.07	0.043	0	I					0.68
5.667	0.17	0.08	0.044	0	I					0.69
5.750	0.17	0.08	0.044	0	I					0.70
5.833	0.17	0.08	0.045	0	I					0.71
5.917	0.17	0.09	0.046	0	I					0.72
6.000	0.17	0.09	0.046	0	I					0.73
6.083	0.19	0.09	0.047	0	I					0.74
6.167	0.20	0.10	0.047	0	I					0.75
6.250	0.20	0.10	0.048	0	I					0.76
6.333	0.20	0.10	0.049	0	I					0.77
6.417	0.20	0.11	0.049	0	I					0.78
6.500	0.20	0.11	0.050	0	I					0.78
6.583	0.21	0.12	0.051	0	I					0.79
6.667	0.22	0.12	0.051	0	I					0.80
6.750	0.22	0.12	0.052	0	I					0.81
6.833	0.22	0.13	0.053	0	I					0.82
6.917	0.22	0.13	0.053	0	I					0.83
7.000	0.22	0.13	0.054	0	I					0.84
7.083	0.22	0.14	0.054	0	I					0.85
7.167	0.22	0.14	0.055	0	I					0.86
7.250	0.22	0.14	0.055	0	I					0.86
7.333	0.23	0.15	0.056	0	I					0.87
7.417	0.24	0.15	0.057	0	I					0.88
7.500	0.24	0.15	0.057	0	I					0.89
7.583	0.25	0.16	0.058	0	I					0.90
7.667	0.26	0.16	0.059	0	I					0.91
7.750	0.26	0.16	0.059	0	I					0.92
7.833	0.28	0.17	0.060	0	I					0.93
7.917	0.28	0.17	0.061	0	I					0.94
8.000	0.29	0.18	0.061	0	I					0.95
8.083	0.32	0.18	0.062	0	I					0.96
8.167	0.34	0.19	0.063	0	I					0.98

8.250	0.34	0.19	0.064	0	I			0.99
8.333	0.34	0.20	0.065	0	I			1.00
8.417	0.34	0.20	0.066	0	I			1.02
8.500	0.34	0.20	0.067	0	I			1.03
8.583	0.36	0.20	0.068	0	I			1.04
8.667	0.37	0.20	0.070	0	I			1.06
8.750	0.37	0.20	0.071	0	I			1.07
8.833	0.39	0.20	0.072	0	I			1.09
8.917	0.40	0.20	0.073	0	I			1.10
9.000	0.40	0.20	0.075	0	I			1.12
9.083	0.44	0.20	0.076	0	I			1.14
9.167	0.45	0.20	0.078	0	I			1.16
9.250	0.45	0.20	0.080	0	I			1.18
9.333	0.47	0.20	0.082	0		I		1.20
9.417	0.48	0.20	0.084	0		I		1.23
9.500	0.48	0.20	0.086	0		I		1.25
9.583	0.50	0.20	0.088	0		I		1.28
9.667	0.51	0.20	0.090	0		I		1.30
9.750	0.51	0.20	0.092	0		I		1.33
9.833	0.53	0.20	0.094	0		I		1.36
9.917	0.54	0.20	0.097	0		I		1.38
10.000	0.54	0.20	0.099	0		I		1.41
10.083	0.41	0.20	0.101	0	I			1.44
10.167	0.35	0.20	0.102	0	I			1.45
10.250	0.35	0.20	0.103	0	I			1.46
10.333	0.35	0.20	0.104	0	I			1.48
10.417	0.35	0.20	0.105	0	I			1.49
10.500	0.35	0.20	0.106	0	I			1.50
10.583	0.44	0.20	0.108	0		I		1.52
10.667	0.49	0.20	0.109	0		I		1.54
10.750	0.49	0.20	0.111	0		I		1.56
10.833	0.49	0.20	0.113	0		I		1.58
10.917	0.49	0.20	0.115	0		I		1.60
11.000	0.49	0.20	0.118	0		I		1.63
11.083	0.47	0.20	0.119	0		I		1.65
11.167	0.46	0.20	0.121	0		I		1.67
11.250	0.46	0.20	0.123	0		I		1.69
11.333	0.46	0.20	0.125	0		I		1.71
11.417	0.46	0.20	0.127	0		I		1.73
11.500	0.46	0.20	0.129	0		I		1.75
11.583	0.43	0.20	0.130	0		I		1.76
11.667	0.41	0.20	0.132	0	I			1.78
11.750	0.41	0.20	0.133	0	I			1.80
11.833	0.43	0.20	0.135	0		I		1.81
11.917	0.44	0.20	0.136	0		I		1.83
12.000	0.44	0.20	0.138	0		I		1.85
12.083	0.57	0.20	0.140	0			I	1.87
12.167	0.63	0.20	0.143	0			I	1.90
12.250	0.63	0.20	0.146	0			I	1.93
12.333	0.65	0.20	0.149	0			I	1.97

12.417	0.66	0.20	0.152	0			I		2.00
12.500	0.66	0.20	0.155	0			I		2.03
12.583	0.70	0.20	0.159	0			I		2.06
12.667	0.71	0.20	0.162	0			I		2.10
12.750	0.71	0.20	0.166	0			I		2.13
12.833	0.73	0.20	0.169	0			I		2.17
12.917	0.74	0.20	0.173	0			I		2.20
13.000	0.74	0.20	0.177	0			I		2.24
13.083	0.84	0.20	0.181	0				I	2.28
13.167	0.88	0.20	0.186	0				I	2.32
13.250	0.88	0.20	0.190	0				I	2.37
13.333	0.88	0.20	0.195	0				I	2.41
13.417	0.88	0.20	0.200	0				I	2.46
13.500	0.88	0.20	0.204	0				I	2.50
13.583	0.67	0.20	0.208	0			I		2.54
13.667	0.58	0.20	0.211	0			I		2.56
13.750	0.58	0.20	0.214	0			I		2.59
13.833	0.58	0.20	0.217	0			I		2.61
13.917	0.58	0.20	0.219	0			I		2.63
14.000	0.58	0.20	0.222	0			I		2.65
14.083	0.66	0.20	0.225	0			I		2.68
14.167	0.69	0.20	0.228	0			I		2.71
14.250	0.69	0.20	0.232	0			I		2.74
14.333	0.67	0.20	0.235	0			I		2.77
14.417	0.66	0.20	0.238	0			I		2.79
14.500	0.66	0.20	0.241	0			I		2.82
14.583	0.66	0.20	0.245	0			I		2.85
14.667	0.67	0.20	0.248	0			I		2.88
14.750	0.67	0.20	0.251	0			I		2.91
14.833	0.65	0.20	0.254	0			I		2.93
14.917	0.64	0.20	0.257	0			I		2.96
15.000	0.64	0.20	0.260	0			I		2.99
15.083	0.62	0.27	0.263	0			I		3.01
15.167	0.61	0.40	0.265		0		I		3.02
15.250	0.61	0.48	0.266			0	I		3.03
15.333	0.59	0.53	0.267			0	I		3.04
15.417	0.58	0.55	0.267				OI		3.04
15.500	0.59	0.56	0.267				OI		3.04
15.583	0.51	0.56	0.267				I 0		3.04
15.667	0.48	0.53	0.267				I 0		3.04
15.750	0.48	0.51	0.267				IO		3.04
15.833	0.48	0.50	0.266				IO		3.03
15.917	0.48	0.49	0.266				0		3.03
16.000	0.48	0.48	0.266				0		3.03
16.083	0.21	0.43	0.265	I		0			3.03
16.167	0.09	0.32	0.264	I		0			3.01
16.250	0.09	0.23	0.263	I	0				3.00
16.333	0.09	0.20	0.262	I	0				3.00
16.417	0.09	0.20	0.261	I	0				2.99
16.500	0.09	0.20	0.260	I	0				2.98

16.583	0.07	0.20	0.259	I	0					2.98
16.667	0.07	0.20	0.258	I	0					2.97
16.750	0.07	0.20	0.258	I	0					2.96
16.833	0.07	0.20	0.257	I	0					2.95
16.917	0.07	0.20	0.256	I	0					2.95
17.000	0.07	0.20	0.255	I	0					2.94
17.083	0.10	0.20	0.254	I	0					2.93
17.167	0.11	0.20	0.253	I	0					2.93
17.250	0.11	0.20	0.253	I	0					2.92
17.333	0.11	0.20	0.252	I	0					2.92
17.417	0.11	0.20	0.252	I	0					2.91
17.500	0.11	0.20	0.251	I	0					2.91
17.583	0.11	0.20	0.250	I	0					2.90
17.667	0.11	0.20	0.250	I	0					2.89
17.750	0.11	0.20	0.249	I	0					2.89
17.833	0.09	0.20	0.249	I	0					2.88
17.917	0.09	0.20	0.248	I	0					2.88
18.000	0.09	0.20	0.247	I	0					2.87
18.083	0.09	0.20	0.246	I	0					2.86
18.167	0.09	0.20	0.246	I	0					2.86
18.250	0.09	0.20	0.245	I	0					2.85
18.333	0.09	0.20	0.244	I	0					2.85
18.417	0.09	0.20	0.243	I	0					2.84
18.500	0.09	0.20	0.243	I	0					2.83
18.583	0.07	0.20	0.242	I	0					2.83
18.667	0.07	0.20	0.241	I	0					2.82
18.750	0.07	0.20	0.240	I	0					2.81
18.833	0.05	0.20	0.239	I	0					2.80
18.917	0.04	0.20	0.238	I	0					2.79
19.000	0.04	0.20	0.237	I	0					2.78
19.083	0.06	0.20	0.236	I	0					2.78
19.167	0.07	0.20	0.235	I	0					2.77
19.250	0.07	0.20	0.234	I	0					2.76
19.333	0.08	0.20	0.233	I	0					2.75
19.417	0.09	0.20	0.232	I	0					2.75
19.500	0.09	0.20	0.232	I	0					2.74
19.583	0.07	0.20	0.231	I	0					2.73
19.667	0.07	0.20	0.230	I	0					2.72
19.750	0.07	0.20	0.229	I	0					2.72
19.833	0.05	0.20	0.228	I	0					2.71
19.917	0.04	0.20	0.227	I	0					2.70
20.000	0.04	0.20	0.226	I	0					2.69
20.083	0.06	0.20	0.225	I	0					2.68
20.167	0.07	0.20	0.224	I	0					2.67
20.250	0.07	0.20	0.223	I	0					2.67
20.333	0.07	0.20	0.222	I	0					2.66
20.417	0.07	0.20	0.221	I	0					2.65
20.500	0.07	0.20	0.221	I	0					2.64
20.583	0.07	0.20	0.220	I	0					2.64
20.667	0.07	0.20	0.219	I	0					2.63

20.750	0.07	0.20	0.218	I	0					2.62
20.833	0.05	0.20	0.217	I	0					2.61
20.917	0.04	0.20	0.216	I	0					2.60
21.000	0.04	0.20	0.215	I	0					2.59
21.083	0.06	0.20	0.214	I	0					2.58
21.167	0.07	0.20	0.213	I	0					2.58
21.250	0.07	0.20	0.212	I	0					2.57
21.333	0.05	0.20	0.211	I	0					2.56
21.417	0.04	0.20	0.210	I	0					2.55
21.500	0.04	0.20	0.209	I	0					2.54
21.583	0.06	0.20	0.208	I	0					2.53
21.667	0.07	0.20	0.207	I	0					2.53
21.750	0.07	0.20	0.206	I	0					2.52
21.833	0.05	0.20	0.205	I	0					2.51
21.917	0.04	0.20	0.204	I	0					2.50
22.000	0.04	0.20	0.203	I	0					2.49
22.083	0.06	0.20	0.202	I	0					2.48
22.167	0.07	0.20	0.201	I	0					2.47
22.250	0.07	0.20	0.200	I	0					2.46
22.333	0.05	0.20	0.199	I	0					2.46
22.417	0.04	0.20	0.198	I	0					2.45
22.500	0.04	0.20	0.197	I	0					2.44
22.583	0.04	0.20	0.196	I	0					2.43
22.667	0.04	0.20	0.195	I	0					2.41
22.750	0.04	0.20	0.194	I	0					2.40
22.833	0.04	0.20	0.193	I	0					2.39
22.917	0.04	0.20	0.192	I	0					2.38
23.000	0.04	0.20	0.191	I	0					2.37
23.083	0.04	0.20	0.190	I	0					2.36
23.167	0.04	0.20	0.189	I	0					2.35
23.250	0.04	0.20	0.188	I	0					2.34
23.333	0.04	0.20	0.187	I	0					2.33
23.417	0.04	0.20	0.186	I	0					2.32
23.500	0.04	0.20	0.185	I	0					2.31
23.583	0.04	0.20	0.184	I	0					2.30
23.667	0.04	0.20	0.183	I	0					2.29
23.750	0.04	0.20	0.181	I	0					2.28
23.833	0.04	0.20	0.180	I	0					2.27
23.917	0.04	0.20	0.179	I	0					2.26
24.000	0.04	0.20	0.178	I	0					2.25
24.083	0.01	0.20	0.177	I	0					2.24
24.167	0.00	0.20	0.176	I	0					2.23
24.250	0.00	0.20	0.175	I	0					2.22
24.333	0.00	0.20	0.173	I	0					2.20
24.417	0.00	0.20	0.172	I	0					2.19
24.500	0.00	0.20	0.170	I	0					2.18
24.583	0.00	0.20	0.169	I	0					2.16
24.667	0.00	0.20	0.168	I	0					2.15
24.750	0.00	0.20	0.166	I	0					2.14
24.833	0.00	0.20	0.165	I	0					2.13

24.917	0.00	0.20	0.164	I	0					2.11
25.000	0.00	0.20	0.162	I	0					2.10
25.083	0.00	0.20	0.161	I	0					2.09
25.167	0.00	0.20	0.160	I	0					2.07
25.250	0.00	0.20	0.158	I	0					2.06
25.333	0.00	0.20	0.157	I	0					2.05
25.417	0.00	0.20	0.156	I	0					2.03
25.500	0.00	0.20	0.154	I	0					2.02
25.583	0.00	0.20	0.153	I	0					2.01
25.667	0.00	0.20	0.152	I	0					1.99
25.750	0.00	0.20	0.150	I	0					1.98
25.833	0.00	0.20	0.149	I	0					1.97
25.917	0.00	0.20	0.147	I	0					1.95
26.000	0.00	0.20	0.146	I	0					1.94
26.083	0.00	0.20	0.145	I	0					1.92
26.167	0.00	0.20	0.143	I	0					1.91
26.250	0.00	0.20	0.142	I	0					1.89
26.333	0.00	0.20	0.141	I	0					1.88
26.417	0.00	0.20	0.139	I	0					1.86
26.500	0.00	0.20	0.138	I	0					1.85
26.583	0.00	0.20	0.137	I	0					1.83
26.667	0.00	0.20	0.135	I	0					1.82
26.750	0.00	0.20	0.134	I	0					1.80
26.833	0.00	0.20	0.133	I	0					1.79
26.917	0.00	0.20	0.131	I	0					1.77
27.000	0.00	0.20	0.130	I	0					1.76
27.083	0.00	0.20	0.129	I	0					1.74
27.167	0.00	0.20	0.127	I	0					1.73
27.250	0.00	0.20	0.126	I	0					1.72
27.333	0.00	0.20	0.124	I	0					1.70
27.417	0.00	0.20	0.123	I	0					1.69
27.500	0.00	0.20	0.122	I	0					1.67
27.583	0.00	0.20	0.120	I	0					1.66
27.667	0.00	0.20	0.119	I	0					1.64
27.750	0.00	0.20	0.118	I	0					1.63
27.833	0.00	0.20	0.116	I	0					1.61
27.917	0.00	0.20	0.115	I	0					1.60
28.000	0.00	0.20	0.114	I	0					1.58
28.083	0.00	0.20	0.112	I	0					1.57
28.167	0.00	0.20	0.111	I	0					1.55
28.250	0.00	0.20	0.110	I	0					1.54
28.333	0.00	0.20	0.108	I	0					1.52
28.417	0.00	0.20	0.107	I	0					1.51
28.500	0.00	0.20	0.106	I	0					1.49
28.583	0.00	0.20	0.104	I	0					1.48
28.667	0.00	0.20	0.103	I	0					1.46
28.750	0.00	0.20	0.101	I	0					1.44
28.833	0.00	0.20	0.100	I	0					1.43
28.917	0.00	0.20	0.099	I	0					1.41
29.000	0.00	0.20	0.097	I	0					1.40

29.083	0.00	0.20	0.096	I	0					1.38
29.167	0.00	0.20	0.095	I	0					1.36
29.250	0.00	0.20	0.093	I	0					1.35
29.333	0.00	0.20	0.092	I	0					1.33
29.417	0.00	0.20	0.091	I	0					1.31
29.500	0.00	0.20	0.089	I	0					1.30
29.583	0.00	0.20	0.088	I	0					1.28
29.667	0.00	0.20	0.087	I	0					1.26
29.750	0.00	0.20	0.085	I	0					1.25
29.833	0.00	0.20	0.084	I	0					1.23
29.917	0.00	0.20	0.083	I	0					1.21
30.000	0.00	0.20	0.081	I	0					1.20
30.083	0.00	0.20	0.080	I	0					1.18
30.167	0.00	0.20	0.078	I	0					1.16
30.250	0.00	0.20	0.077	I	0					1.15
30.333	0.00	0.20	0.076	I	0					1.13
30.417	0.00	0.20	0.074	I	0					1.12
30.500	0.00	0.20	0.073	I	0					1.10
30.583	0.00	0.20	0.072	I	0					1.08
30.667	0.00	0.20	0.070	I	0					1.07
30.750	0.00	0.20	0.069	I	0					1.05
30.833	0.00	0.20	0.068	I	0					1.03
30.917	0.00	0.20	0.066	I	0					1.02
31.000	0.00	0.20	0.065	I	0					1.00
31.083	0.00	0.19	0.064	I	0					0.98
31.167	0.00	0.18	0.062	I	0					0.96
31.250	0.00	0.17	0.061	I	0					0.94
31.333	0.00	0.17	0.060	I	0					0.93
31.417	0.00	0.16	0.059	I	0					0.91
31.500	0.00	0.16	0.058	I	0					0.90
31.583	0.00	0.15	0.057	I	0					0.88
31.667	0.00	0.14	0.056	I	0					0.87
31.750	0.00	0.14	0.055	I	0					0.85
31.833	0.00	0.13	0.054	I	0					0.84
31.917	0.00	0.13	0.053	I	0					0.83
32.000	0.00	0.12	0.052	I	0					0.81
32.083	0.00	0.12	0.051	I	0					0.80
32.167	0.00	0.11	0.050	I	0					0.79
32.250	0.00	0.11	0.050	I	0					0.78
32.333	0.00	0.11	0.049	I	0					0.77
32.417	0.00	0.10	0.048	I	0					0.76
32.500	0.00	0.10	0.047	I	0					0.75
32.583	0.00	0.09	0.047	I	0					0.74
32.667	0.00	0.09	0.046	I	0					0.73
32.750	0.00	0.09	0.046	I	0					0.72
32.833	0.00	0.08	0.045	I	0					0.71
32.917	0.00	0.08	0.044	I	0					0.71
33.000	0.00	0.08	0.044	I	0					0.70
33.083	0.00	0.07	0.043	I	0					0.69
33.167	0.00	0.07	0.043	I	0					0.68

33.250	0.00	0.07	0.042	I 0					0.68
33.333	0.00	0.07	0.042	I 0					0.67
33.417	0.00	0.06	0.041	I 0					0.66
33.500	0.00	0.06	0.041	I 0					0.66
33.583	0.00	0.06	0.041	I 0					0.65
33.667	0.00	0.06	0.040	I 0					0.65
33.750	0.00	0.05	0.040	IO					0.64
33.833	0.00	0.05	0.039	IO					0.63
33.917	0.00	0.05	0.039	IO					0.63
34.000	0.00	0.05	0.039	IO					0.62
34.083	0.00	0.05	0.038	IO					0.62
34.167	0.00	0.05	0.038	IO					0.62
34.250	0.00	0.04	0.038	IO					0.61
34.333	0.00	0.04	0.037	IO					0.61
34.417	0.00	0.04	0.037	IO					0.60
34.500	0.00	0.04	0.037	IO					0.60
34.583	0.00	0.04	0.037	IO					0.59
34.667	0.00	0.04	0.036	IO					0.59
34.750	0.00	0.03	0.036	IO					0.59
34.833	0.00	0.03	0.036	IO					0.58
34.917	0.00	0.03	0.036	IO					0.58
35.000	0.00	0.03	0.035	IO					0.58
35.083	0.00	0.03	0.035	IO					0.58
35.167	0.00	0.03	0.035	IO					0.57
35.250	0.00	0.03	0.035	0					0.57
35.333	0.00	0.03	0.035	0					0.57
35.417	0.00	0.03	0.035	0					0.56
35.500	0.00	0.02	0.034	0					0.56
35.583	0.00	0.02	0.034	0					0.56
35.667	0.00	0.02	0.034	0					0.56
35.750	0.00	0.02	0.034	0					0.56
35.833	0.00	0.02	0.034	0					0.55
35.917	0.00	0.02	0.034	0					0.55
36.000	0.00	0.02	0.033	0					0.55
36.083	0.00	0.02	0.033	0					0.55
36.167	0.00	0.02	0.033	0					0.55
36.250	0.00	0.02	0.033	0					0.54
36.333	0.00	0.02	0.033	0					0.54
36.417	0.00	0.02	0.033	0					0.54
36.500	0.00	0.02	0.033	0					0.54
36.583	0.00	0.01	0.033	0					0.54
36.667	0.00	0.01	0.033	0					0.54
36.750	0.00	0.01	0.032	0					0.53
36.833	0.00	0.01	0.032	0					0.53
36.917	0.00	0.01	0.032	0					0.53
37.000	0.00	0.01	0.032	0					0.53
37.083	0.00	0.01	0.032	0					0.53
37.167	0.00	0.01	0.032	0					0.53
37.250	0.00	0.01	0.032	0					0.53
37.333	0.00	0.01	0.032	0					0.53

37.417	0.00	0.01	0.032	0					0.53
37.500	0.00	0.01	0.032	0					0.52
37.583	0.00	0.01	0.032	0					0.52
37.667	0.00	0.01	0.032	0					0.52
37.750	0.00	0.01	0.032	0					0.52
37.833	0.00	0.01	0.031	0					0.52
37.917	0.00	0.01	0.031	0					0.52
38.000	0.00	0.01	0.031	0					0.52
38.083	0.00	0.01	0.031	0					0.52
38.167	0.00	0.01	0.031	0					0.52
38.250	0.00	0.01	0.031	0					0.52
38.333	0.00	0.01	0.031	0					0.52
38.417	0.00	0.01	0.031	0					0.52
38.500	0.00	0.01	0.031	0					0.52
38.583	0.00	0.01	0.031	0					0.51
38.667	0.00	0.01	0.031	0					0.51
38.750	0.00	0.01	0.031	0					0.51
38.833	0.00	0.01	0.031	0					0.51
38.917	0.00	0.00	0.031	0					0.51
39.000	0.00	0.00	0.031	0					0.51
39.083	0.00	0.00	0.031	0					0.51
39.167	0.00	0.00	0.031	0					0.51
39.250	0.00	0.00	0.031	0					0.51
39.333	0.00	0.00	0.031	0					0.51
39.417	0.00	0.00	0.031	0					0.51
39.500	0.00	0.00	0.031	0					0.51
39.583	0.00	0.00	0.031	0					0.51
39.667	0.00	0.00	0.031	0					0.51
39.750	0.00	0.00	0.031	0					0.51
39.833	0.00	0.00	0.031	0					0.51
39.917	0.00	0.00	0.031	0					0.51
40.000	0.00	0.00	0.031	0					0.51
40.083	0.00	0.00	0.031	0					0.51
40.167	0.00	0.00	0.030	0					0.51
40.250	0.00	0.00	0.030	0					0.51
40.333	0.00	0.00	0.030	0					0.51
40.417	0.00	0.00	0.030	0					0.51
40.500	0.00	0.00	0.030	0					0.51
40.583	0.00	0.00	0.030	0					0.51
40.667	0.00	0.00	0.030	0					0.51
40.750	0.00	0.00	0.030	0					0.51
40.833	0.00	0.00	0.030	0					0.51
40.917	0.00	0.00	0.030	0					0.51
41.000	0.00	0.00	0.030	0					0.50
41.083	0.00	0.00	0.030	0					0.50
41.167	0.00	0.00	0.030	0					0.50
41.250	0.00	0.00	0.030	0					0.50
41.333	0.00	0.00	0.030	0					0.50
41.417	0.00	0.00	0.030	0					0.50
41.500	0.00	0.00	0.030	0					0.50

41.583	0.00	0.00	0.030	0					0.50
41.667	0.00	0.00	0.030	0					0.50
41.750	0.00	0.00	0.030	0					0.50
41.833	0.00	0.00	0.030	0					0.50
41.917	0.00	0.00	0.030	0					0.50
42.000	0.00	0.00	0.030	0					0.50
42.083	0.00	0.00	0.030	0					0.50
42.167	0.00	0.00	0.030	0					0.50
42.250	0.00	0.00	0.030	0					0.50
42.333	0.00	0.00	0.030	0					0.50
42.417	0.00	0.00	0.030	0					0.50

Remaining water in basin = 0.03 (Ac.Ft)

*****HYDROGRAPH DATA*****
 Number of intervals = 509
 Time interval = 5.0 (Min.)
 Maximum/Peak flow rate = 0.565 (CFS)
 Total volume = 0.464 (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
