

Hydrological Calculations Summary

St. Tammany Fire District #1
1.008 acre, portion of Lot 29 & 30
Witteborg Farms in Section 13, T-9-S, R-14-E

The rational method was used to determine existing and proposed peak flows to size the drainage pipe network & detention pond.

The rational method is based on the following:

$$Q = CIA$$

Q = peak runoff rate, cfs

I = average rainfall intensity

A = drainage area, acres

1.0 Summary of Hydrograph Flows

1. Existing Conditions:

Area = 1.008 acres

Tc = 27 min (see TR55 sheet)

C = 0.25

25 – Year Storm

Total Pre-Existing Flow = 1.45 cfs

2. Developed Conditions

Area = 0.978 acres

Tc = 5 min (minimum)

C = 0.47

25 – Year Storm

Total Post-Construction Flow = 5.52 cfs

Pond -Route Outflow 6" pvc = 0.23 cfs

3. Direct Runoff

Area = 0.03 acres

Tc = 5 min (minimum)

C = 0.85

25 – Year Storm

Total Post-Construction Flow = 0.31 cfs



2.0 Conclusion

The detention pond area will be designed to control & obtain the onsite drainage flow.
The flow will then be drained out of the detention area with a 6" PVC to near by existing roadside ditch.

$$(1.45 - (0.31 + 0.23)) / 1.45 = 63\%$$

The post construction flow for a 25 Year Storm has been reduced by 63%.

Requires Storage Volume = 1,597 cu ft

Provided Storage Volume = 11,482 cu ft

3.0 Appendices

Appendix 1 - Hydrograph Reports

Table of Contents

10 - Year

Hydrograph Summary	1
Hydrograph Reports	
Hydrograph No. 1, Rational, Pre Existing	2
Tc by TR55 Worksheet	4
Hydrograph No. 2, Rational, Post Construction	5
Hydrograph No. 3, Pond Route, Pond	7
Detention Pond Reports - Pond	15
Hydrograph No. 4, Rational, Direct Runoff	19
Design Storm Report - IDF Based - Synthetic, 24-hr	21

25 - Year

Hydrograph Summary	22
Hydrograph Reports	
Hydrograph No. 1, Rational, Pre Existing	23
Hydrograph No. 2, Rational, Post Construction	25
Hydrograph No. 3, Pond Route, Pond	27
Hydrograph No. 4, Rational, Direct Runoff	34
Design Storm Report - IDF Based - Synthetic, 24-hr	36

100 - Year

Hydrograph Summary	37
Hydrograph Reports	
Hydrograph No. 1, Rational, Pre Existing	38
Hydrograph No. 2, Rational, Post Construction	40
Hydrograph No. 3, Pond Route, Pond	42
Hydrograph No. 4, Rational, Direct Runoff	49
Design Storm Report - IDF Based - Synthetic, 24-hr	51

IDF Report	52
-------------------------	-----------

Precipitation Report	53
-----------------------------------	-----------

Hydrograph 10-yr Summary

Project Name: Fire Depart - #1

Hydrology Studio v 3.0.0.26

09-06-2022

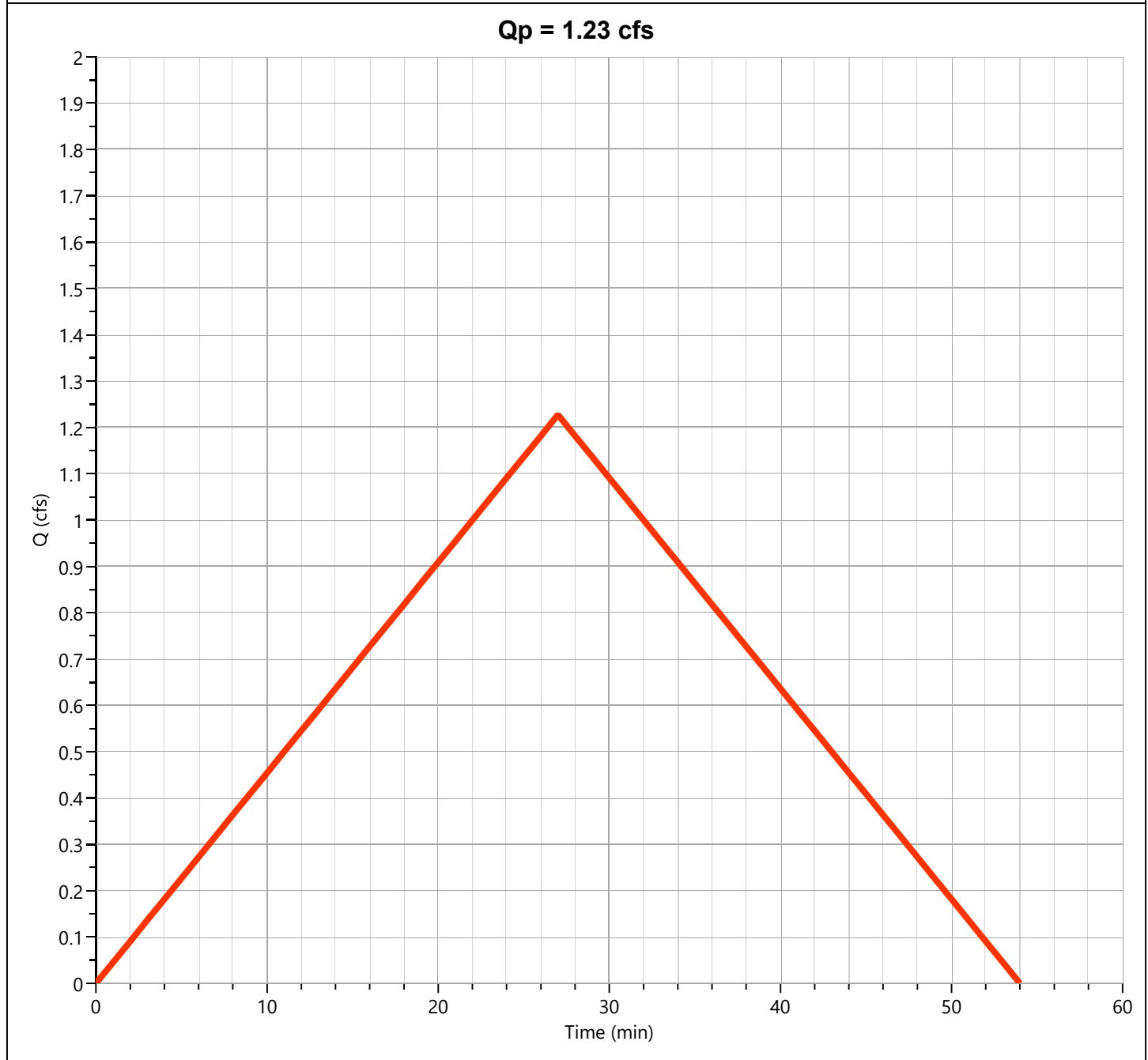
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	1.227	0.45	1,988	---		
2	Rational	Post Construction	4.689	0.08	1,407	---		
3	Pond Route	Pond	0.176	0.17	1,385	2	6.96	1,363
4	Rational	Direct Runoff	0.260	0.08	78.0	---		

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 1.227 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.45 hrs
Time Interval	= 1 min	Runoff Volume	= 1,988 cuft
Drainage Area	= 1.008 ac	Runoff Coeff.	= 0.25
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 27.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 4.87 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.045	37	0.773						
2	0.091	38	0.727						
3	0.136	39	0.682						
4	0.182	40	0.636						
5	0.227	41	0.591						
6	0.273	42	0.545						
7	0.318	43	0.500						
8	0.364	44	0.455						
9	0.409	45	0.409						
10	0.455	46	0.364						
11	0.500	47	0.318						
12	0.545	48	0.273						
13	0.591	49	0.227						
14	0.636	50	0.182						
15	0.682	51	0.136						
16	0.727	52	0.091						
17	0.773	53	0.045						
18	0.818	54	0.000						
19	0.864	...end	...end						
20	0.909								
21	0.954								
22	1.000								
23	1.045								
24	1.091								
25	1.136								
26	1.182								
27	1.227								
28	1.182								
29	1.136								
30	1.091								
31	1.045								
32	1.000								
33	0.954								
34	0.909								
35	0.864								
36	0.818								

Tc by TR55 Worksheet

Existing Rational

Hyd. No. 1

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description				
Manning's n	0.400	0.013	0.013	
Flow Length (ft)	100			
2-yr, 24-hr Precip. (in)	4.48	5.22	5.22	
Land Slope (%)	.75			
Travel Time (min)	26.87	0.00	0.00	26.87
Shallow Concentrated Flow				
Flow Length (ft)				
Watercourse Slope (%)	0.00	0.00	0.00	
Surface Description	Paved	Paved	Paved	
Average Velocity (ft/s)				
Travel Time (min)	0.00	0.00	0.00	0.00
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.013	0.013	0.013	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				27 min

Hydrograph Report

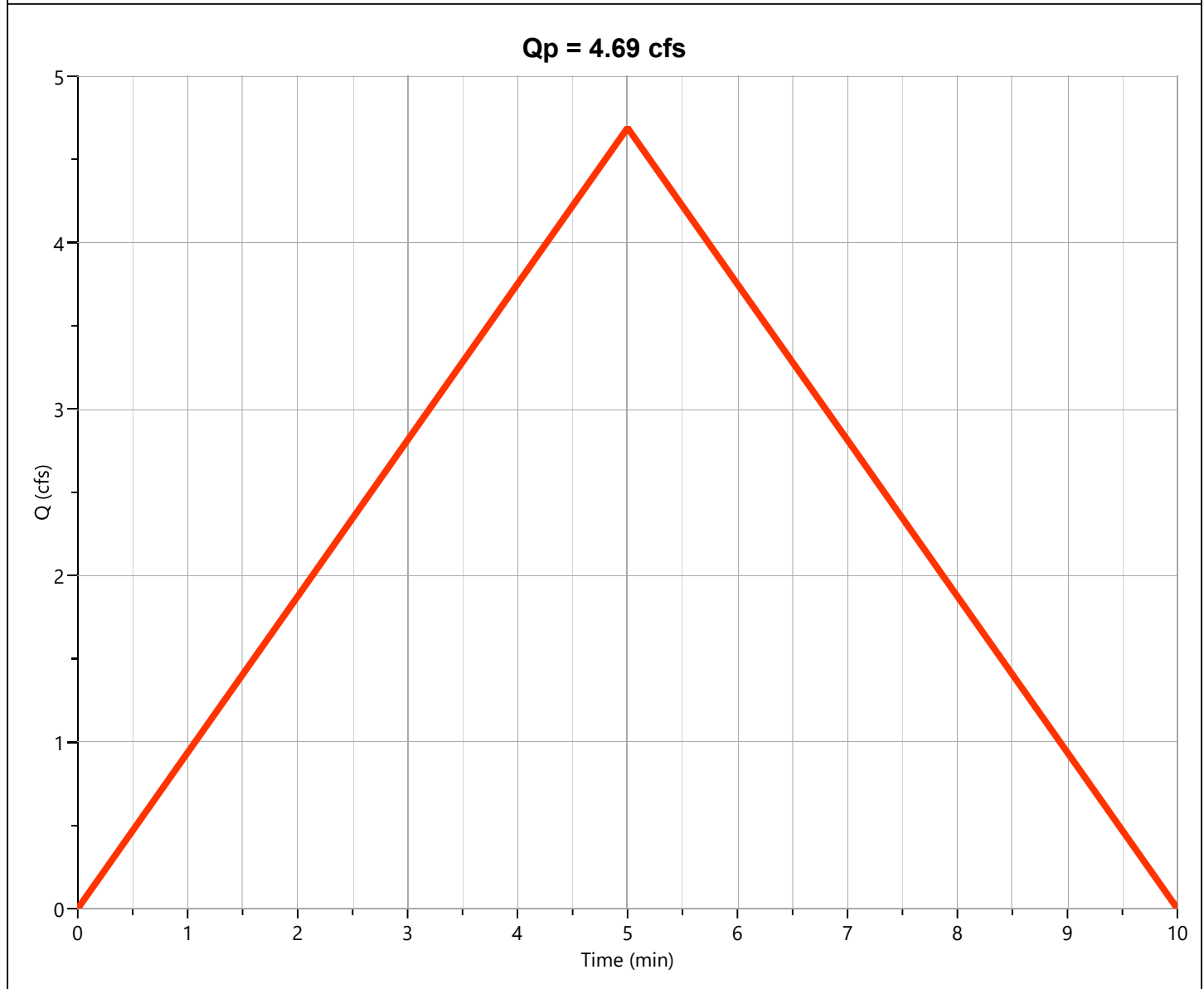
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 4.689 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 1,407 cuft
Drainage Area	= 0.978 ac	Runoff Coeff.	= 0.47*
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 10.20 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.238	0.85	impervious
0.74	0.35	grass
0.978	0.47	



Hydrograph Report

Pond

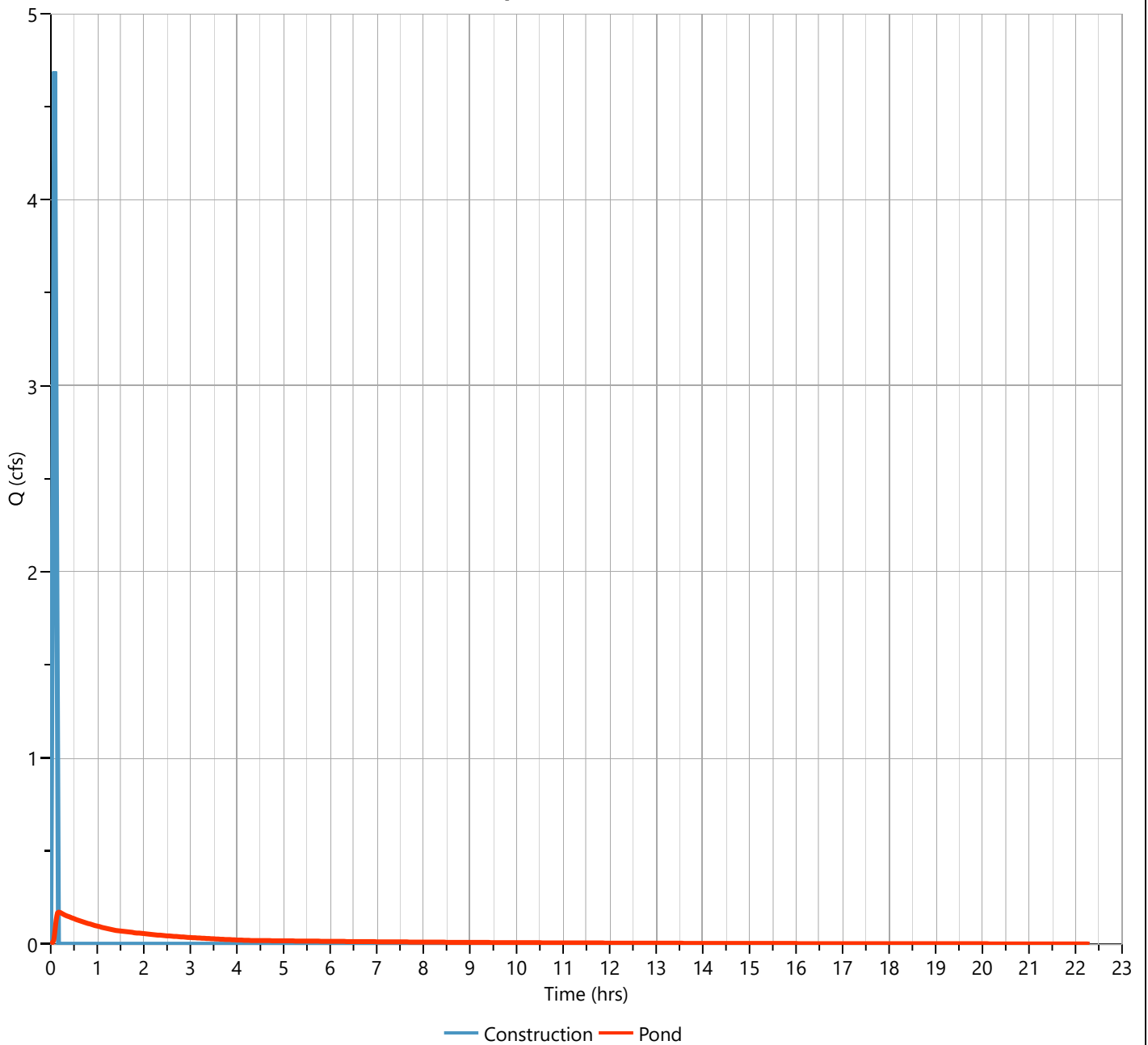
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 0.176 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Hydrograph Volume	= 1,385 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 6.96 ft
Pond Name	= Pond	Max. Storage	= 1,363 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 3.49 hrs

Qp = 0.18 cfs



Hydrograph Discharge Table

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
0.03	0.005	0.63	0.124	1.23	0.082	1.83	0.060	2.43	0.046
0.05	0.012	0.65	0.123	1.25	0.081	1.85	0.060	2.45	0.045
0.07	0.022	0.67	0.122	1.27	0.080	1.87	0.059	2.47	0.045
0.08	0.054	0.68	0.120	1.28	0.079	1.88	0.059	2.48	0.045
0.10	0.092	0.70	0.119	1.30	0.078	1.90	0.058	2.50	0.044
0.12	0.129	0.72	0.117	1.32	0.078	1.92	0.058	2.52	0.044
0.13	0.154	0.73	0.116	1.33	0.077	1.93	0.058	2.53	0.044
0.15	0.171	0.75	0.115	1.35	0.076	1.95	0.057	2.55	0.043
0.17	0.176	0.77	0.113	1.37	0.075	1.97	0.057	2.57	0.043
0.18	0.173	0.78	0.112	1.38	0.074	1.98	0.056	2.58	0.043
0.20	0.171	0.80	0.111	1.40	0.073	2.00	0.056	2.60	0.042
0.22	0.168	0.82	0.110	1.42	0.073	2.02	0.055	2.62	0.042
0.23	0.166	0.83	0.108	1.43	0.072	2.03	0.055	2.63	0.042
0.25	0.164	0.85	0.107	1.45	0.072	2.05	0.055	2.65	0.041
0.27	0.161	0.87	0.106	1.47	0.071	2.07	0.054	2.67	0.041
0.28	0.159	0.88	0.105	1.48	0.071	2.08	0.054	2.68	0.041
0.30	0.157	0.90	0.103	1.50	0.070	2.10	0.053	2.70	0.040
0.32	0.155	0.92	0.102	1.52	0.070	2.12	0.053	2.72	0.040
0.33	0.153	0.93	0.101	1.53	0.069	2.13	0.052	2.73	0.040
0.35	0.151	0.95	0.100	1.55	0.069	2.15	0.052	2.75	0.040
0.37	0.150	0.97	0.099	1.57	0.068	2.17	0.052	2.77	0.039
0.38	0.148	0.98	0.098	1.58	0.068	2.18	0.051	2.78	0.039
0.40	0.146	1.00	0.097	1.60	0.067	2.20	0.051	2.80	0.039
0.42	0.144	1.02	0.095	1.62	0.067	2.22	0.050	2.82	0.038
0.43	0.143	1.03	0.094	1.63	0.066	2.23	0.050	2.83	0.038
0.45	0.141	1.05	0.093	1.65	0.065	2.25	0.050	2.85	0.038
0.47	0.140	1.07	0.092	1.67	0.065	2.27	0.049	2.87	0.037
0.48	0.138	1.08	0.091	1.68	0.065	2.28	0.049	2.88	0.037
0.50	0.136	1.10	0.090	1.70	0.064	2.30	0.049	2.90	0.037
0.52	0.135	1.12	0.089	1.72	0.064	2.32	0.048	2.92	0.037
0.53	0.133	1.13	0.088	1.73	0.063	2.33	0.048	2.93	0.036
0.55	0.132	1.15	0.087	1.75	0.063	2.35	0.047	2.95	0.036
0.57	0.130	1.17	0.086	1.77	0.062	2.37	0.047	2.97	0.036
0.58	0.129	1.18	0.085	1.78	0.062	2.38	0.047	2.98	0.036
0.60	0.127	1.20	0.084	1.80	0.061	2.40	0.046	3.00	0.035
0.62	0.126	1.22	0.083	1.82	0.061	2.42	0.046	3.02	0.035

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
3.03	0.035	3.63	0.026	4.23	0.020	4.83	0.018	5.43	0.016
3.05	0.034	3.65	0.026	4.25	0.020	4.85	0.018	5.45	0.016
3.07	0.034	3.67	0.026	4.27	0.020	4.87	0.018	5.47	0.016
3.08	0.034	3.68	0.026	4.28	0.020	4.88	0.018	5.48	0.016
3.10	0.034	3.70	0.026	4.30	0.019	4.90	0.018	5.50	0.016
3.12	0.033	3.72	0.025	4.32	0.019	4.92	0.018	5.52	0.016
3.13	0.033	3.73	0.025	4.33	0.019	4.93	0.018	5.53	0.016
3.15	0.033	3.75	0.025	4.35	0.019	4.95	0.017	5.55	0.016
3.17	0.033	3.77	0.025	4.37	0.019	4.97	0.017	5.57	0.016
3.18	0.032	3.78	0.025	4.38	0.019	4.98	0.017	5.58	0.016
3.20	0.032	3.80	0.024	4.40	0.019	5.00	0.017	5.60	0.016
3.22	0.032	3.82	0.024	4.42	0.019	5.02	0.017	5.62	0.016
3.23	0.032	3.83	0.024	4.43	0.019	5.03	0.017	5.63	0.016
3.25	0.031	3.85	0.024	4.45	0.019	5.05	0.017	5.65	0.016
3.27	0.031	3.87	0.024	4.47	0.019	5.07	0.017	5.67	0.016
3.28	0.031	3.88	0.023	4.48	0.019	5.08	0.017	5.68	0.016
3.30	0.031	3.90	0.023	4.50	0.019	5.10	0.017	5.70	0.015
3.32	0.030	3.92	0.023	4.52	0.019	5.12	0.017	5.72	0.015
3.33	0.030	3.93	0.023	4.53	0.019	5.13	0.017	5.73	0.015
3.35	0.030	3.95	0.023	4.55	0.019	5.15	0.017	5.75	0.015
3.37	0.030	3.97	0.023	4.57	0.019	5.17	0.017	5.77	0.015
3.38	0.030	3.98	0.022	4.58	0.019	5.18	0.017	5.78	0.015
3.40	0.029	4.00	0.022	4.60	0.019	5.20	0.017	5.80	0.015
3.42	0.029	4.02	0.022	4.62	0.018	5.22	0.017	5.82	0.015
3.43	0.029	4.03	0.022	4.63	0.018	5.23	0.017	5.83	0.015
3.45	0.029	4.05	0.022	4.65	0.018	5.25	0.017	5.85	0.015
3.47	0.028	4.07	0.022	4.67	0.018	5.27	0.017	5.87	0.015
3.48	0.028	4.08	0.021	4.68	0.018	5.28	0.017	5.88	0.015
3.50	0.028	4.10	0.021	4.70	0.018	5.30	0.017	5.90	0.015
3.52	0.028	4.12	0.021	4.72	0.018	5.32	0.016	5.92	0.015
3.53	0.028	4.13	0.021	4.73	0.018	5.33	0.016	5.93	0.015
3.55	0.027	4.15	0.021	4.75	0.018	5.35	0.016	5.95	0.015
3.57	0.027	4.17	0.021	4.77	0.018	5.37	0.016	5.97	0.015
3.58	0.027	4.18	0.020	4.78	0.018	5.38	0.016	5.98	0.015
3.60	0.027	4.20	0.020	4.80	0.018	5.40	0.016	6.00	0.015
3.62	0.027	4.22	0.020	4.82	0.018	5.42	0.016	6.02	0.015

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
6.03	0.015	6.63	0.013	7.23	0.012	7.83	0.011	8.43	0.010
6.05	0.015	6.65	0.013	7.25	0.012	7.85	0.011	8.45	0.010
6.07	0.015	6.67	0.013	7.27	0.012	7.87	0.011	8.47	0.010
6.08	0.015	6.68	0.013	7.28	0.012	7.88	0.011	8.48	0.010
6.10	0.014	6.70	0.013	7.30	0.012	7.90	0.011	8.50	0.010
6.12	0.014	6.72	0.013	7.32	0.012	7.92	0.011	8.52	0.010
6.13	0.014	6.73	0.013	7.33	0.012	7.93	0.011	8.53	0.010
6.15	0.014	6.75	0.013	7.35	0.012	7.95	0.011	8.55	0.010
6.17	0.014	6.77	0.013	7.37	0.012	7.97	0.011	8.57	0.010
6.18	0.014	6.78	0.013	7.38	0.012	7.98	0.011	8.58	0.010
6.20	0.014	6.80	0.013	7.40	0.012	8.00	0.011	8.60	0.010
6.22	0.014	6.82	0.013	7.42	0.012	8.02	0.011	8.62	0.010
6.23	0.014	6.83	0.013	7.43	0.012	8.03	0.011	8.63	0.010
6.25	0.014	6.85	0.013	7.45	0.012	8.05	0.010	8.65	0.010
6.27	0.014	6.87	0.013	7.47	0.012	8.07	0.010	8.67	0.009
6.28	0.014	6.88	0.013	7.48	0.012	8.08	0.010	8.68	0.009
6.30	0.014	6.90	0.013	7.50	0.011	8.10	0.010	8.70	0.009
6.32	0.014	6.92	0.013	7.52	0.011	8.12	0.010	8.72	0.009
6.33	0.014	6.93	0.013	7.53	0.011	8.13	0.010	8.73	0.009
6.35	0.014	6.95	0.013	7.55	0.011	8.15	0.010	8.75	0.009
6.37	0.014	6.97	0.013	7.57	0.011	8.17	0.010	8.77	0.009
6.38	0.014	6.98	0.013	7.58	0.011	8.18	0.010	8.78	0.009
6.40	0.014	7.00	0.012	7.60	0.011	8.20	0.010	8.80	0.009
6.42	0.014	7.02	0.012	7.62	0.011	8.22	0.010	8.82	0.009
6.43	0.014	7.03	0.012	7.63	0.011	8.23	0.010	8.83	0.009
6.45	0.014	7.05	0.012	7.65	0.011	8.25	0.010	8.85	0.009
6.47	0.014	7.07	0.012	7.67	0.011	8.27	0.010	8.87	0.009
6.48	0.014	7.08	0.012	7.68	0.011	8.28	0.010	8.88	0.009
6.50	0.014	7.10	0.012	7.70	0.011	8.30	0.010	8.90	0.009
6.52	0.014	7.12	0.012	7.72	0.011	8.32	0.010	8.92	0.009
6.53	0.013	7.13	0.012	7.73	0.011	8.33	0.010	8.93	0.009
6.55	0.013	7.15	0.012	7.75	0.011	8.35	0.010	8.95	0.009
6.57	0.013	7.17	0.012	7.77	0.011	8.37	0.010	8.97	0.009
6.58	0.013	7.18	0.012	7.78	0.011	8.38	0.010	8.98	0.009
6.60	0.013	7.20	0.012	7.80	0.011	8.40	0.010	9.00	0.009
6.62	0.013	7.22	0.012	7.82	0.011	8.42	0.010	9.02	0.009

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
9.03	0.009	9.63	0.008	10.23	0.007	10.83	0.007	11.43	0.006
9.05	0.009	9.65	0.008	10.25	0.007	10.85	0.007	11.45	0.006
9.07	0.009	9.67	0.008	10.27	0.007	10.87	0.007	11.47	0.006
9.08	0.009	9.68	0.008	10.28	0.007	10.88	0.007	11.48	0.006
9.10	0.009	9.70	0.008	10.30	0.007	10.90	0.007	11.50	0.006
9.12	0.009	9.72	0.008	10.32	0.007	10.92	0.007	11.52	0.006
9.13	0.009	9.73	0.008	10.33	0.007	10.93	0.007	11.53	0.006
9.15	0.009	9.75	0.008	10.35	0.007	10.95	0.006	11.55	0.006
9.17	0.009	9.77	0.008	10.37	0.007	10.97	0.006	11.57	0.006
9.18	0.009	9.78	0.008	10.38	0.007	10.98	0.006	11.58	0.006
9.20	0.009	9.80	0.008	10.40	0.007	11.00	0.006	11.60	0.006
9.22	0.009	9.82	0.008	10.42	0.007	11.02	0.006	11.62	0.006
9.23	0.009	9.83	0.008	10.43	0.007	11.03	0.006	11.63	0.006
9.25	0.009	9.85	0.008	10.45	0.007	11.05	0.006	11.65	0.006
9.27	0.009	9.87	0.008	10.47	0.007	11.07	0.006	11.67	0.006
9.28	0.009	9.88	0.008	10.48	0.007	11.08	0.006	11.68	0.006
9.30	0.009	9.90	0.008	10.50	0.007	11.10	0.006	11.70	0.006
9.32	0.009	9.92	0.008	10.52	0.007	11.12	0.006	11.72	0.006
9.33	0.008	9.93	0.008	10.53	0.007	11.13	0.006	11.73	0.006
9.35	0.008	9.95	0.008	10.55	0.007	11.15	0.006	11.75	0.006
9.37	0.008	9.97	0.008	10.57	0.007	11.17	0.006	11.77	0.006
9.38	0.008	9.98	0.008	10.58	0.007	11.18	0.006	11.78	0.006
9.40	0.008	10.00	0.008	10.60	0.007	11.20	0.006	11.80	0.006
9.42	0.008	10.02	0.008	10.62	0.007	11.22	0.006	11.82	0.006
9.43	0.008	10.03	0.008	10.63	0.007	11.23	0.006	11.83	0.006
9.45	0.008	10.05	0.008	10.65	0.007	11.25	0.006	11.85	0.006
9.47	0.008	10.07	0.008	10.67	0.007	11.27	0.006	11.87	0.006
9.48	0.008	10.08	0.007	10.68	0.007	11.28	0.006	11.88	0.006
9.50	0.008	10.10	0.007	10.70	0.007	11.30	0.006	11.90	0.006
9.52	0.008	10.12	0.007	10.72	0.007	11.32	0.006	11.92	0.006
9.53	0.008	10.13	0.007	10.73	0.007	11.33	0.006	11.93	0.006
9.55	0.008	10.15	0.007	10.75	0.007	11.35	0.006	11.95	0.006
9.57	0.008	10.17	0.007	10.77	0.007	11.37	0.006	11.97	0.005
9.58	0.008	10.18	0.007	10.78	0.007	11.38	0.006	11.98	0.005
9.60	0.008	10.20	0.007	10.80	0.007	11.40	0.006	12.00	0.005
9.62	0.008	10.22	0.007	10.82	0.007	11.42	0.006	12.02	0.005

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.03	0.005	12.63	0.005	13.23	0.004	13.83	0.004	14.43	0.004
12.05	0.005	12.65	0.005	13.25	0.004	13.85	0.004	14.45	0.004
12.07	0.005	12.67	0.005	13.27	0.004	13.87	0.004	14.47	0.004
12.08	0.005	12.68	0.005	13.28	0.004	13.88	0.004	14.48	0.004
12.10	0.005	12.70	0.005	13.30	0.004	13.90	0.004	14.50	0.004
12.12	0.005	12.72	0.005	13.32	0.004	13.92	0.004	14.52	0.004
12.13	0.005	12.73	0.005	13.33	0.004	13.93	0.004	14.53	0.004
12.15	0.005	12.75	0.005	13.35	0.004	13.95	0.004	14.55	0.004
12.17	0.005	12.77	0.005	13.37	0.004	13.97	0.004	14.57	0.004
12.18	0.005	12.78	0.005	13.38	0.004	13.98	0.004	14.58	0.004
12.20	0.005	12.80	0.005	13.40	0.004	14.00	0.004	14.60	0.004
12.22	0.005	12.82	0.005	13.42	0.004	14.02	0.004	14.62	0.004
12.23	0.005	12.83	0.005	13.43	0.004	14.03	0.004	14.63	0.004
12.25	0.005	12.85	0.005	13.45	0.004	14.05	0.004	14.65	0.004
12.27	0.005	12.87	0.005	13.47	0.004	14.07	0.004	14.67	0.004
12.28	0.005	12.88	0.005	13.48	0.004	14.08	0.004	14.68	0.004
12.30	0.005	12.90	0.005	13.50	0.004	14.10	0.004	14.70	0.003
12.32	0.005	12.92	0.005	13.52	0.004	14.12	0.004	14.72	0.003
12.33	0.005	12.93	0.005	13.53	0.004	14.13	0.004	14.73	0.003
12.35	0.005	12.95	0.005	13.55	0.004	14.15	0.004	14.75	0.003
12.37	0.005	12.97	0.005	13.57	0.004	14.17	0.004	14.77	0.003
12.38	0.005	12.98	0.005	13.58	0.004	14.18	0.004	14.78	0.003
12.40	0.005	13.00	0.005	13.60	0.004	14.20	0.004	14.80	0.003
12.42	0.005	13.02	0.005	13.62	0.004	14.22	0.004	14.82	0.003
12.43	0.005	13.03	0.005	13.63	0.004	14.23	0.004	14.83	0.003
12.45	0.005	13.05	0.005	13.65	0.004	14.25	0.004	14.85	0.003
12.47	0.005	13.07	0.005	13.67	0.004	14.27	0.004	14.87	0.003
12.48	0.005	13.08	0.005	13.68	0.004	14.28	0.004	14.88	0.003
12.50	0.005	13.10	0.005	13.70	0.004	14.30	0.004	14.90	0.003
12.52	0.005	13.12	0.005	13.72	0.004	14.32	0.004	14.92	0.003
12.53	0.005	13.13	0.005	13.73	0.004	14.33	0.004	14.93	0.003
12.55	0.005	13.15	0.005	13.75	0.004	14.35	0.004	14.95	0.003
12.57	0.005	13.17	0.005	13.77	0.004	14.37	0.004	14.97	0.003
12.58	0.005	13.18	0.004	13.78	0.004	14.38	0.004	14.98	0.003
12.60	0.005	13.20	0.004	13.80	0.004	14.40	0.004	15.00	0.003
12.62	0.005	13.22	0.004	13.82	0.004	14.42	0.004	15.02	0.003

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
15.03	0.003	15.63	0.003	16.23	0.003	16.83	0.002	17.43	0.002
15.05	0.003	15.65	0.003	16.25	0.003	16.85	0.002	17.45	0.002
15.07	0.003	15.67	0.003	16.27	0.003	16.87	0.002	17.47	0.002
15.08	0.003	15.68	0.003	16.28	0.003	16.88	0.002	17.48	0.002
15.10	0.003	15.70	0.003	16.30	0.003	16.90	0.002	17.50	0.002
15.12	0.003	15.72	0.003	16.32	0.003	16.92	0.002	17.52	0.002
15.13	0.003	15.73	0.003	16.33	0.003	16.93	0.002	17.53	0.002
15.15	0.003	15.75	0.003	16.35	0.003	16.95	0.002	17.55	0.002
15.17	0.003	15.77	0.003	16.37	0.003	16.97	0.002	17.57	0.002
15.18	0.003	15.78	0.003	16.38	0.003	16.98	0.002	17.58	0.002
15.20	0.003	15.80	0.003	16.40	0.003	17.00	0.002	17.60	0.002
15.22	0.003	15.82	0.003	16.42	0.003	17.02	0.002	17.62	0.002
15.23	0.003	15.83	0.003	16.43	0.003	17.03	0.002	17.63	0.002
15.25	0.003	15.85	0.003	16.45	0.003	17.05	0.002	17.65	0.002
15.27	0.003	15.87	0.003	16.47	0.003	17.07	0.002	17.67	0.002
15.28	0.003	15.88	0.003	16.48	0.003	17.08	0.002	17.68	0.002
15.30	0.003	15.90	0.003	16.50	0.003	17.10	0.002	17.70	0.002
15.32	0.003	15.92	0.003	16.52	0.003	17.12	0.002	17.72	0.002
15.33	0.003	15.93	0.003	16.53	0.003	17.13	0.002	17.73	0.002
15.35	0.003	15.95	0.003	16.55	0.003	17.15	0.002	17.75	0.002
15.37	0.003	15.97	0.003	16.57	0.003	17.17	0.002	17.77	0.002
15.38	0.003	15.98	0.003	16.58	0.003	17.18	0.002	17.78	0.002
15.40	0.003	16.00	0.003	16.60	0.003	17.20	0.002	17.80	0.002
15.42	0.003	16.02	0.003	16.62	0.003	17.22	0.002	17.82	0.002
15.43	0.003	16.03	0.003	16.63	0.003	17.23	0.002	17.83	0.002
15.45	0.003	16.05	0.003	16.65	0.003	17.25	0.002	17.85	0.002
15.47	0.003	16.07	0.003	16.67	0.003	17.27	0.002	17.87	0.002
15.48	0.003	16.08	0.003	16.68	0.003	17.28	0.002	17.88	0.002
15.50	0.003	16.10	0.003	16.70	0.003	17.30	0.002	17.90	0.002
15.52	0.003	16.12	0.003	16.72	0.003	17.32	0.002	17.92	0.002
15.53	0.003	16.13	0.003	16.73	0.003	17.33	0.002	17.93	0.002
15.55	0.003	16.15	0.003	16.75	0.002	17.35	0.002	17.95	0.002
15.57	0.003	16.17	0.003	16.77	0.002	17.37	0.002	17.97	0.002
15.58	0.003	16.18	0.003	16.78	0.002	17.38	0.002	17.98	0.002
15.60	0.003	16.20	0.003	16.80	0.002	17.40	0.002	18.00	0.002
15.62	0.003	16.22	0.003	16.82	0.002	17.42	0.002	18.02	0.002

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
18.03	0.002	18.63	0.002						
18.05	0.002	18.65	0.002						
18.07	0.002	18.67	0.002						
18.08	0.002	18.68	0.002						
18.10	0.002	18.70	0.002						
18.12	0.002	18.72	0.002						
18.13	0.002	18.73	0.002						
18.15	0.002	18.75	0.002						
18.17	0.002	18.77	0.002						
18.18	0.002	18.78	0.002						
18.20	0.002	18.80	0.002						
18.22	0.002	18.82	0.002						
18.23	0.002	18.83	0.002						
18.25	0.002	18.85	0.002						
18.27	0.002	18.87	0.002						
18.28	0.002	18.88	0.002						
18.30	0.002	...end	...end						
18.32	0.002								
18.33	0.002								
18.35	0.002								
18.37	0.002								
18.38	0.002								
18.40	0.002								
18.42	0.002								
18.43	0.002								
18.45	0.002								
18.47	0.002								
18.48	0.002								
18.50	0.002								
18.52	0.002								
18.53	0.002								
18.55	0.002								
18.57	0.002								
18.58	0.002								
18.60	0.002								
18.62	0.002								

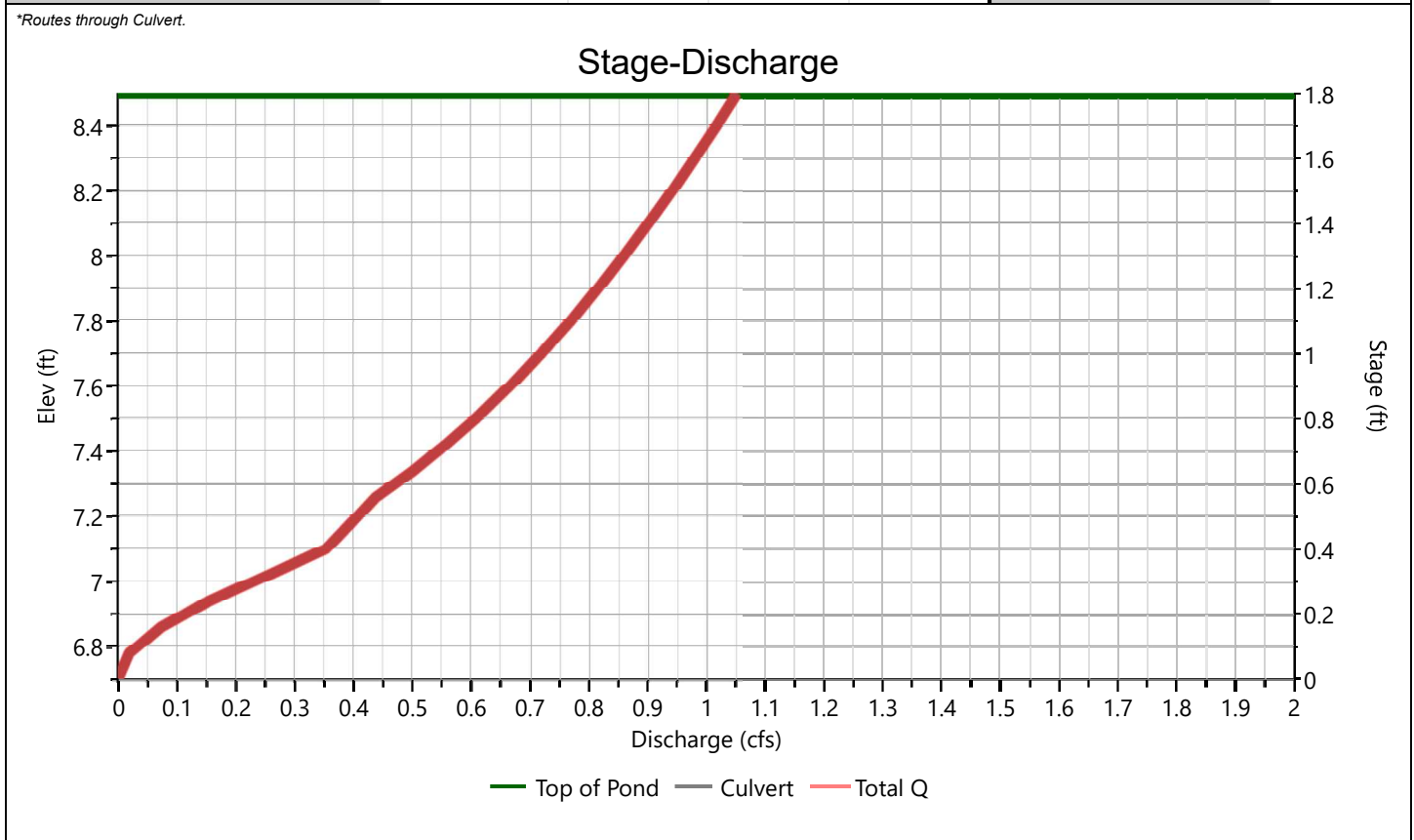
Pond Report

Pond

Stage-Discharge

Culvert / Orifices	Culvert	Orifices			Perforated Riser
		1	2	3	
Rise, in	6				Hole Diameter, in
Span, in	6				No. holes
No. Barrels	1				Invert Elevation, ft
Invert Elevation, ft	6.70				Height, ft
Orifice Coefficient, Co	0.60				Orifice Coefficient, Co
Length, ft	50				
Barrel Slope, %	.4				
N-Value, n	0.009				
Weirs	Riser*	Weirs			Ancillary
		1	2	3	
Shape / Type					Exfiltration, in/hr
Crest Elevation, ft					
Crest Length, ft					
Angle, deg					
Weir Coefficient, Cw					

*Routes through Culvert.



Pond Report

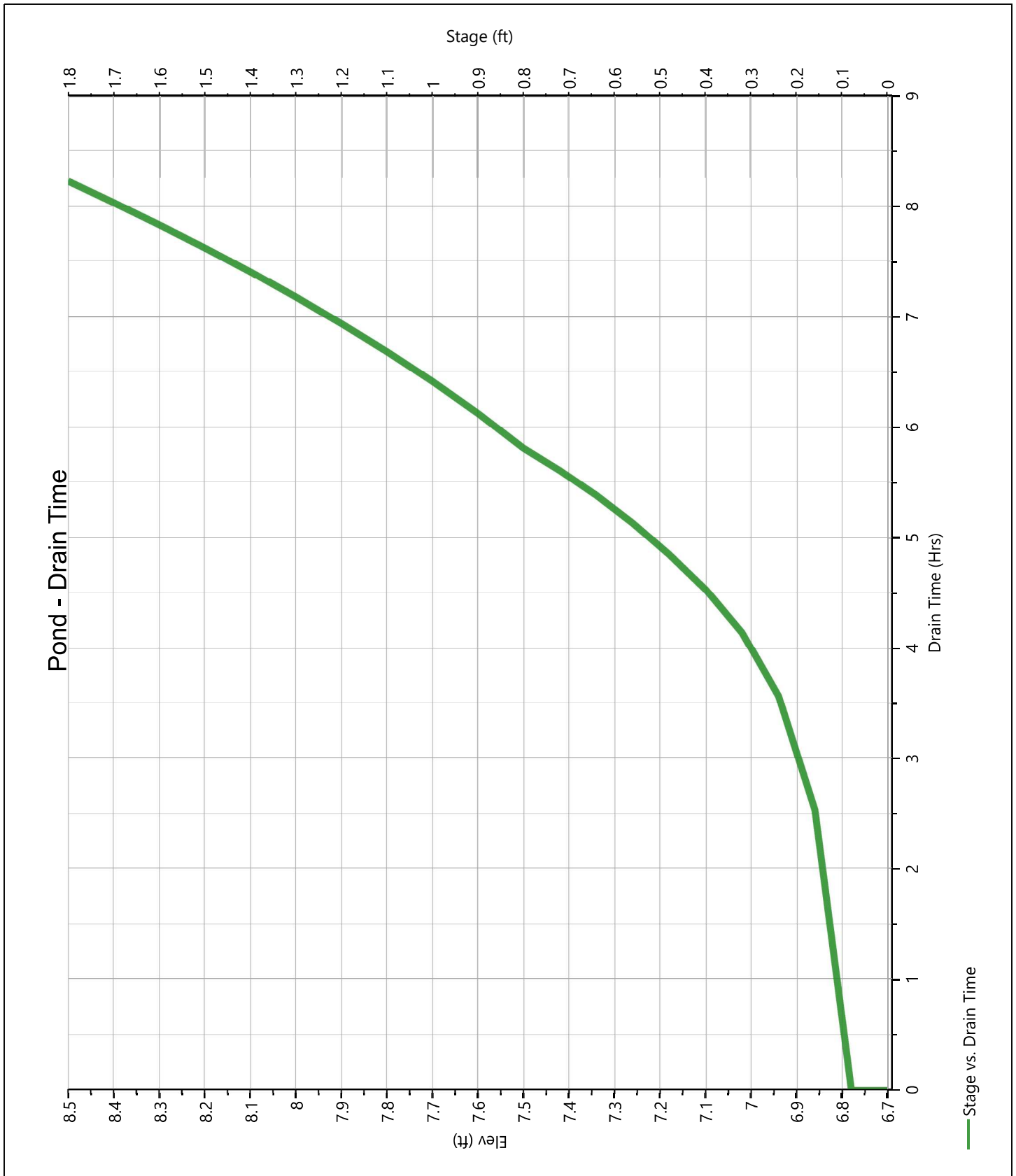
Pond

Stage-Storage-Discharge Summary

Stage (ft)	Elev. (ft)	Storage (cuft)	Culvert (cfs)	Orifices, cfs			Riser (cfs)	Weirs, cfs			Pf Riser (cfs)	Exfil (cfs)	User (cfs)	Total (cfs)
				1	2	3		1	2	3				
0.00	6.70	0.000	0.000											0.000
0.80	7.50	4,260	0.607 oc											0.607
1.80	8.50	11,482	1.052 oc											1.052

Pond

Pond Drawdown

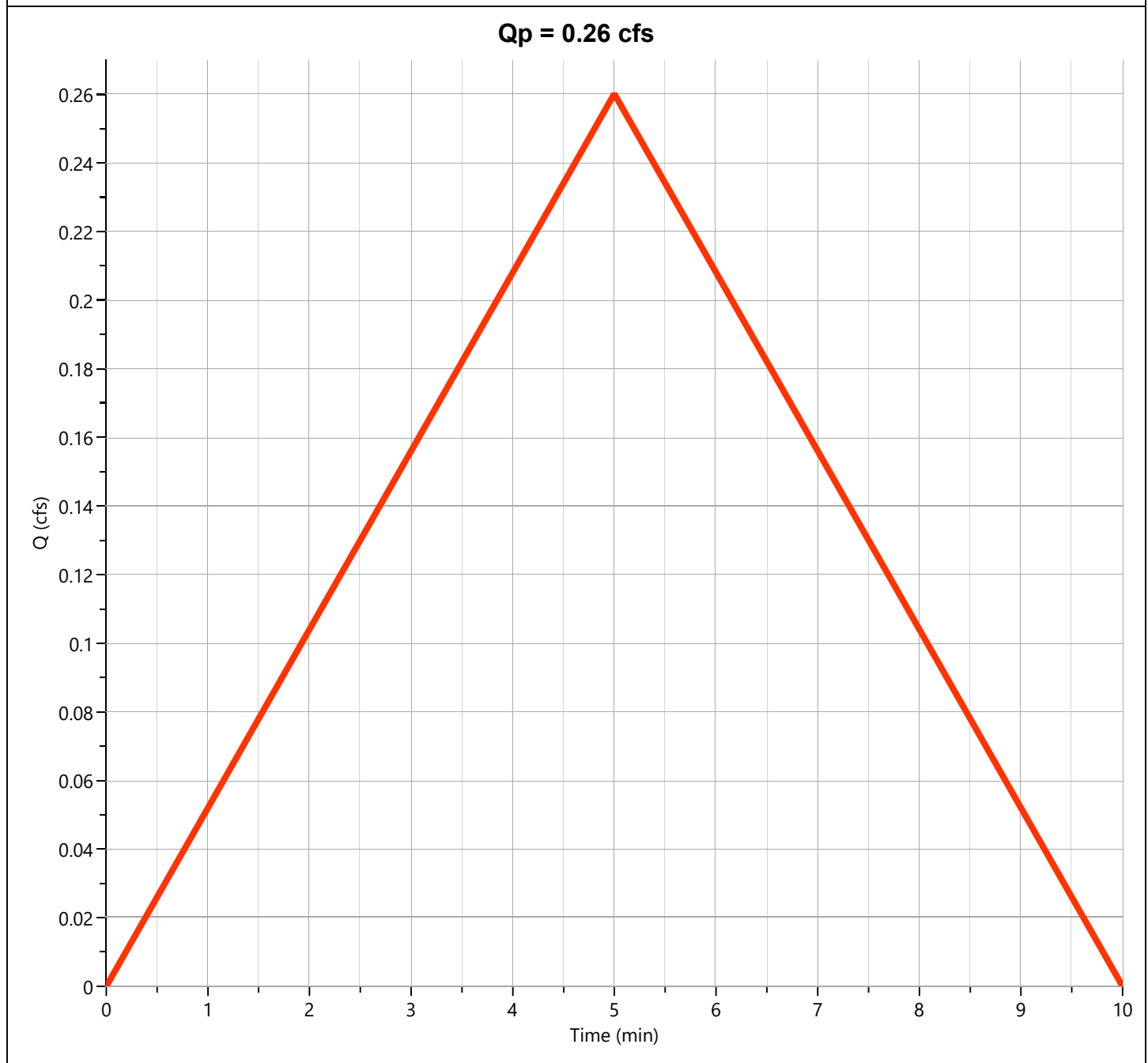


Hydrograph Report

Direct Runoff

Hyd. No. 4

Hydrograph Type	= Rational	Peak Flow	= 0.260 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 78.0 cuft
Drainage Area	= 0.03 ac	Runoff Coeff.	= 0.85
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 10.20 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Design Storm Report

Custom Storm filename:

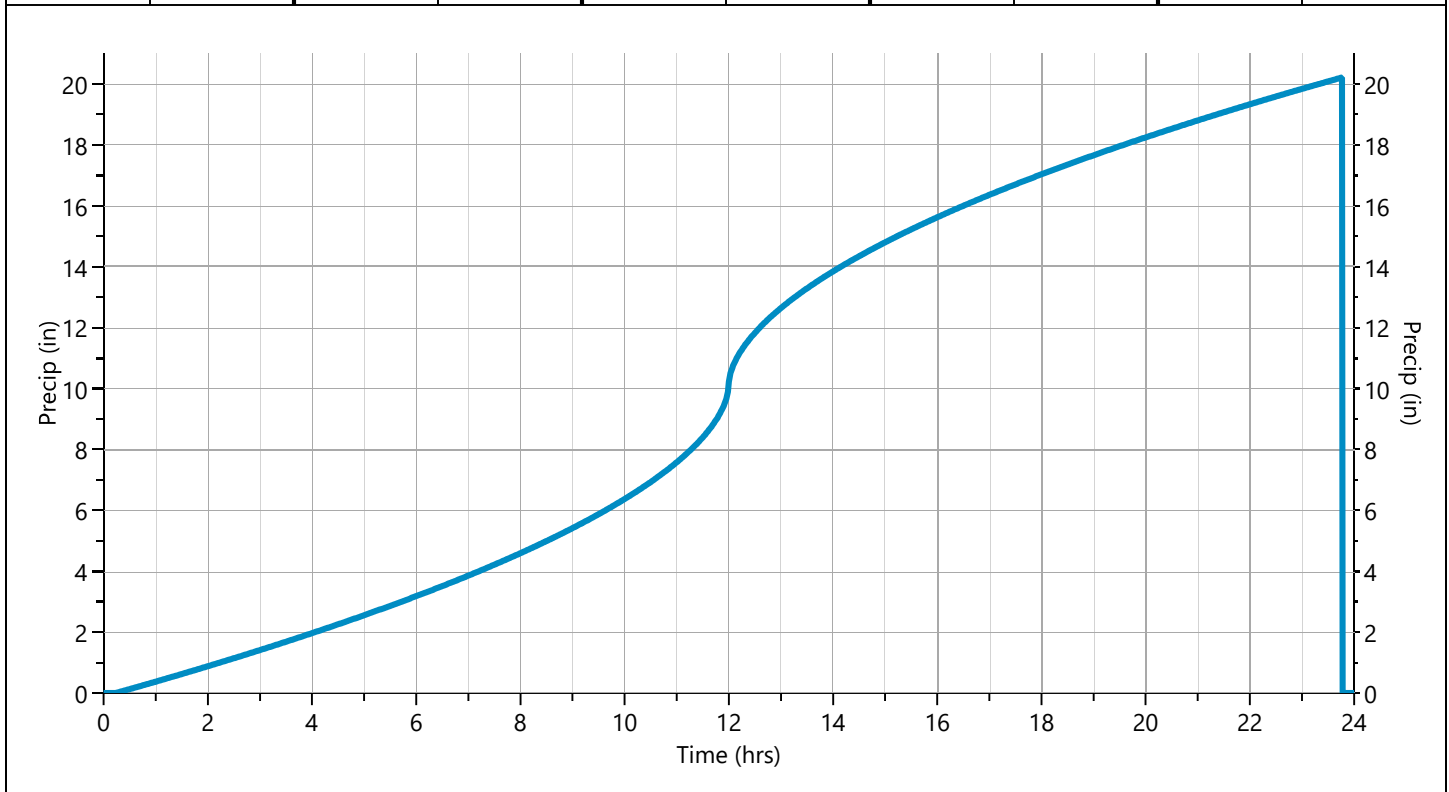
Hydrology Studio v 3.0.0.26

09-06-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	✓ 10-yr	25-yr	50-yr	100-yr	
24 hrs	12.54	14.52	0	17.79	20.45	24.46	27.58	30.53	

Incremental Rainfall Distribution, 10-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.032002	11.68	0.039015	11.87	0.056571	12.05	0.091644	12.23	0.045218
11.52	0.032477	11.70	0.039938	11.88	0.059870	12.07	0.079960	12.25	0.043847
11.53	0.032976	11.72	0.040938	11.90	0.063897	12.08	0.072076	12.27	0.042603
11.55	0.033501	11.73	0.042024	11.92	0.068978	12.10	0.066279	12.28	0.041469
11.57	0.034055	11.75	0.043211	11.93	0.075683	12.12	0.061776	12.30	0.040428
11.58	0.034640	11.77	0.044515	11.95	0.085151	12.13	0.058144	12.32	0.039468
11.60	0.035259	11.78	0.045958	11.97	0.100115	12.15	0.055130	12.33	0.038579
11.62	0.035916	11.80	0.047567	11.98	0.129926	12.17	0.052574	12.35	0.037752
11.63	0.036615	11.82	0.049377	12.00	0.344257	12.18	0.050371	12.37	0.036981
11.65	0.037361	11.83	0.051434	12.02	0.163831	12.20	0.048444	12.38	0.036260
11.67	0.038159	11.85	0.053802	12.03	0.111872	12.22	0.046739	12.40	0.035582



Hydrograph 25-yr Summary

Project Name: Fire Depart - #1

Hydrology Studio v 3.0.0.26

09-06-2022

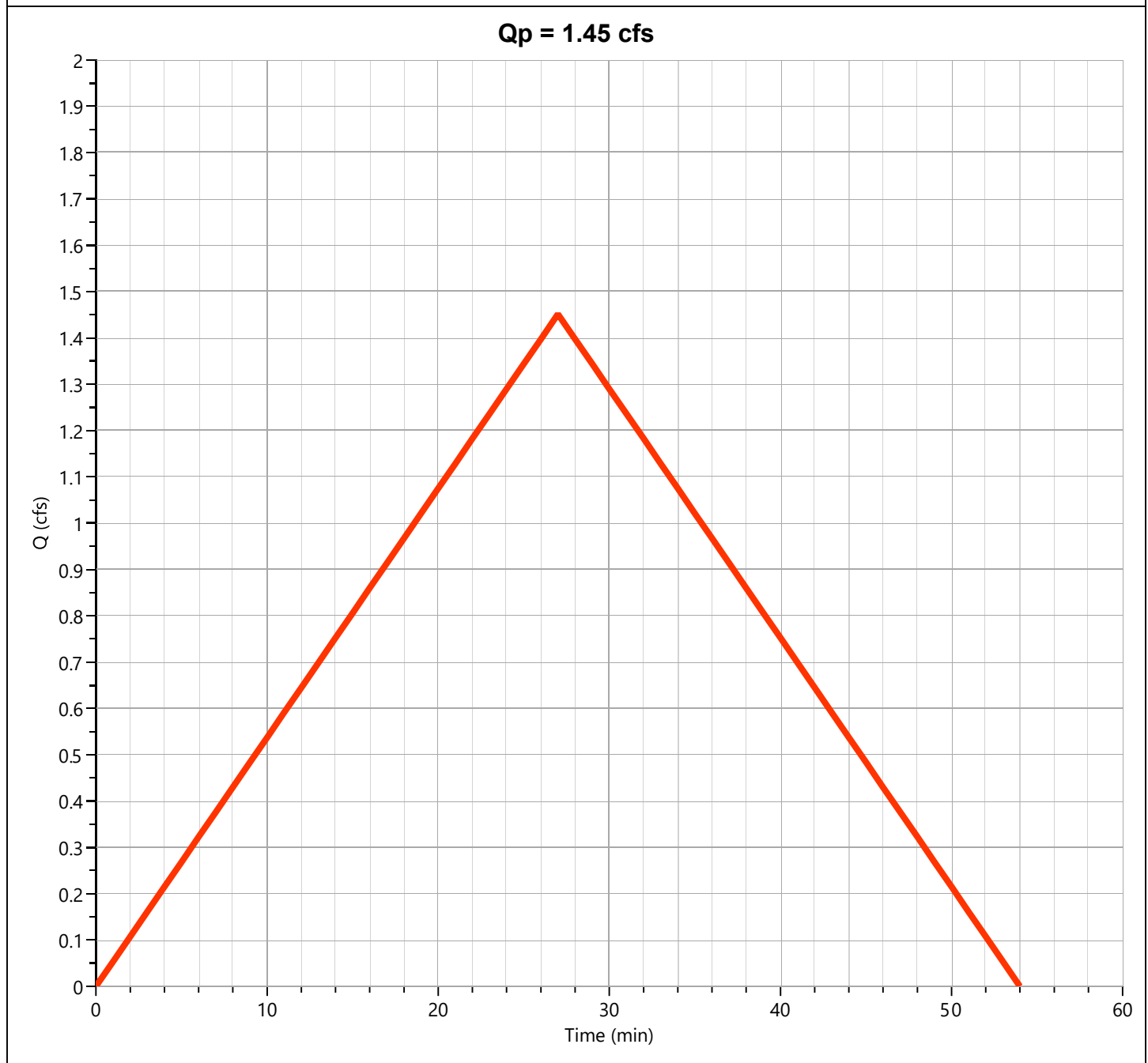
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	1.451	0.45	2,351	---		
2	Rational	Post Construction	5.516	0.08	1,655	---		
3	Pond Route	Pond	0.231	0.17	1,633	2	7.00	1,597
4	Rational	Direct Runoff	0.306	0.08	91.8	---		

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 1.451 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.45 hrs
Time Interval	= 1 min	Runoff Volume	= 2,351 cuft
Drainage Area	= 1.008 ac	Runoff Coeff.	= 0.25
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 27.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 5.76 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.054	37	0.914						
2	0.107	38	0.860						
3	0.161	39	0.806						
4	0.215	40	0.752						
5	0.269	41	0.699						
6	0.322	42	0.645						
7	0.376	43	0.591						
8	0.430	44	0.537						
9	0.484	45	0.484						
10	0.537	46	0.430						
11	0.591	47	0.376						
12	0.645	48	0.322						
13	0.699	49	0.269						
14	0.752	50	0.215						
15	0.806	51	0.161						
16	0.860	52	0.107						
17	0.914	53	0.054						
18	0.967	54	0.000						
19	1.021	...end	...end						
20	1.075								
21	1.129								
22	1.182								
23	1.236								
24	1.290								
25	1.344								
26	1.397								
27	1.451								
28	1.397								
29	1.344								
30	1.290								
31	1.236								
32	1.182								
33	1.129								
34	1.075								
35	1.021								
36	0.967								

Hydrograph Report

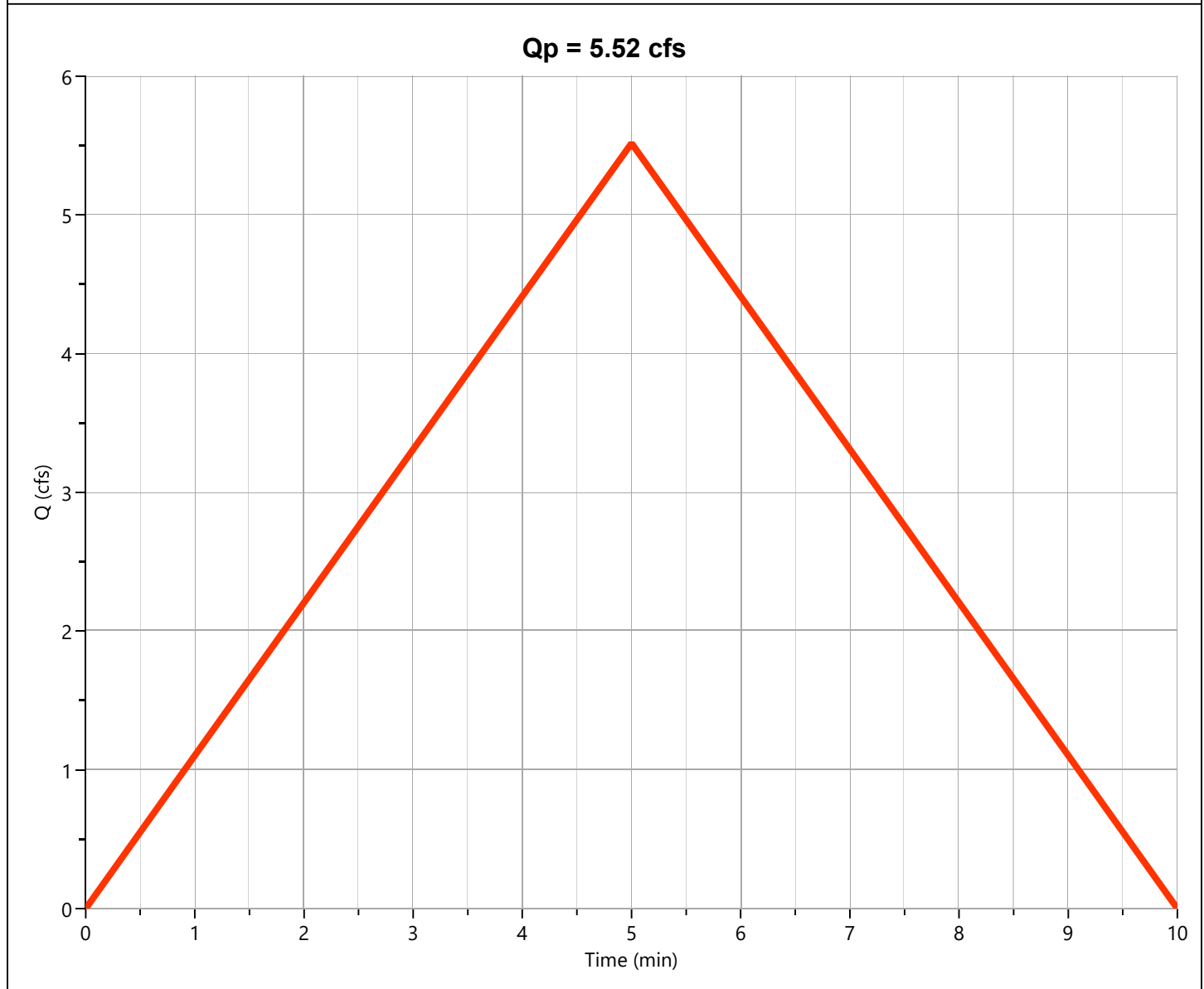
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 5.516 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 1,655 cuft
Drainage Area	= 0.978 ac	Runoff Coeff.	= 0.47*
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 12.00 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.238	0.85	impervious
0.74	0.35	grass
0.978	0.47	



Hydrograph Report

Pond

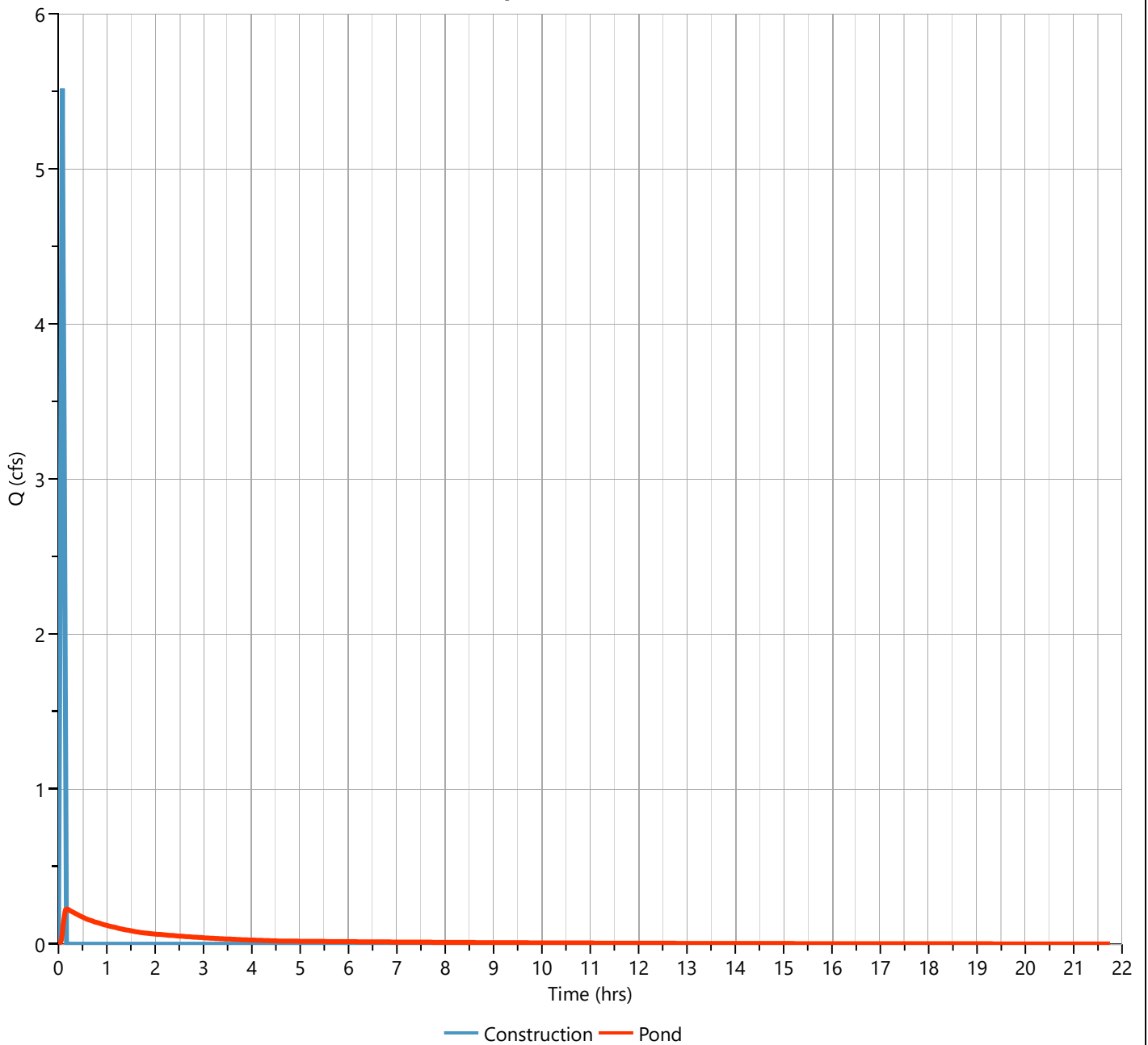
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 0.231 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Hydrograph Volume	= 1,633 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 7.00 ft
Pond Name	= Pond	Max. Storage	= 1,597 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 3.14 hrs

Qp = 0.23 cfs



Hydrograph Discharge Table

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
0.03	0.006	0.63	0.155	1.23	0.103	1.83	0.070	2.43	0.053
0.05	0.014	0.65	0.154	1.25	0.102	1.85	0.069	2.45	0.053
0.07	0.032	0.67	0.152	1.27	0.100	1.87	0.069	2.47	0.052
0.08	0.070	0.68	0.150	1.28	0.099	1.88	0.068	2.48	0.052
0.10	0.124	0.70	0.148	1.30	0.098	1.90	0.068	2.50	0.051
0.12	0.169	0.72	0.147	1.32	0.097	1.92	0.067	2.52	0.051
0.13	0.206	0.73	0.145	1.33	0.096	1.93	0.067	2.53	0.051
0.15	0.226	0.75	0.143	1.35	0.095	1.95	0.066	2.55	0.050
0.17	0.231	0.77	0.142	1.37	0.094	1.97	0.066	2.57	0.050
0.18	0.227	0.78	0.140	1.38	0.093	1.98	0.065	2.58	0.049
0.20	0.224	0.80	0.138	1.40	0.092	2.00	0.065	2.60	0.049
0.22	0.221	0.82	0.137	1.42	0.090	2.02	0.064	2.62	0.049
0.23	0.218	0.83	0.135	1.43	0.089	2.03	0.064	2.63	0.048
0.25	0.215	0.85	0.134	1.45	0.088	2.05	0.063	2.65	0.048
0.27	0.212	0.87	0.132	1.47	0.087	2.07	0.063	2.67	0.048
0.28	0.209	0.88	0.131	1.48	0.086	2.08	0.062	2.68	0.047
0.30	0.206	0.90	0.129	1.50	0.085	2.10	0.062	2.70	0.047
0.32	0.203	0.92	0.128	1.52	0.084	2.12	0.061	2.72	0.047
0.33	0.200	0.93	0.126	1.53	0.083	2.13	0.061	2.73	0.046
0.35	0.197	0.95	0.125	1.55	0.083	2.15	0.060	2.75	0.046
0.37	0.195	0.97	0.123	1.57	0.082	2.17	0.060	2.77	0.045
0.38	0.192	0.98	0.122	1.58	0.081	2.18	0.059	2.78	0.045
0.40	0.189	1.00	0.121	1.60	0.080	2.20	0.059	2.80	0.045
0.42	0.187	1.02	0.119	1.62	0.079	2.22	0.059	2.82	0.044
0.43	0.184	1.03	0.118	1.63	0.078	2.23	0.058	2.83	0.044
0.45	0.181	1.05	0.117	1.65	0.077	2.25	0.058	2.85	0.044
0.47	0.179	1.07	0.115	1.67	0.076	2.27	0.057	2.87	0.043
0.48	0.176	1.08	0.114	1.68	0.075	2.28	0.057	2.88	0.043
0.50	0.174	1.10	0.113	1.70	0.074	2.30	0.056	2.90	0.043
0.52	0.171	1.12	0.111	1.72	0.074	2.32	0.056	2.92	0.042
0.53	0.169	1.13	0.110	1.73	0.073	2.33	0.055	2.93	0.042
0.55	0.167	1.15	0.109	1.75	0.073	2.35	0.055	2.95	0.042
0.57	0.164	1.17	0.108	1.77	0.072	2.37	0.055	2.97	0.041
0.58	0.162	1.18	0.106	1.78	0.071	2.38	0.054	2.98	0.041
0.60	0.160	1.20	0.105	1.80	0.071	2.40	0.054	3.00	0.041
0.62	0.158	1.22	0.104	1.82	0.070	2.42	0.053	3.02	0.041

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
3.03	0.040	3.63	0.031	4.23	0.023	4.83	0.019	5.43	0.017
3.05	0.040	3.65	0.030	4.25	0.023	4.85	0.019	5.45	0.017
3.07	0.040	3.67	0.030	4.27	0.023	4.87	0.019	5.47	0.017
3.08	0.039	3.68	0.030	4.28	0.023	4.88	0.019	5.48	0.017
3.10	0.039	3.70	0.030	4.30	0.022	4.90	0.019	5.50	0.017
3.12	0.039	3.72	0.029	4.32	0.022	4.92	0.019	5.52	0.017
3.13	0.038	3.73	0.029	4.33	0.022	4.93	0.019	5.53	0.017
3.15	0.038	3.75	0.029	4.35	0.022	4.95	0.018	5.55	0.017
3.17	0.038	3.77	0.029	4.37	0.022	4.97	0.018	5.57	0.017
3.18	0.038	3.78	0.029	4.38	0.022	4.98	0.018	5.58	0.017
3.20	0.037	3.80	0.028	4.40	0.021	5.00	0.018	5.60	0.017
3.22	0.037	3.82	0.028	4.42	0.021	5.02	0.018	5.62	0.017
3.23	0.037	3.83	0.028	4.43	0.021	5.03	0.018	5.63	0.016
3.25	0.036	3.85	0.028	4.45	0.021	5.05	0.018	5.65	0.016
3.27	0.036	3.87	0.027	4.47	0.021	5.07	0.018	5.67	0.016
3.28	0.036	3.88	0.027	4.48	0.021	5.08	0.018	5.68	0.016
3.30	0.036	3.90	0.027	4.50	0.021	5.10	0.018	5.70	0.016
3.32	0.035	3.92	0.027	4.52	0.020	5.12	0.018	5.72	0.016
3.33	0.035	3.93	0.027	4.53	0.020	5.13	0.018	5.73	0.016
3.35	0.035	3.95	0.026	4.55	0.020	5.15	0.018	5.75	0.016
3.37	0.035	3.97	0.026	4.57	0.020	5.17	0.018	5.77	0.016
3.38	0.034	3.98	0.026	4.58	0.020	5.18	0.018	5.78	0.016
3.40	0.034	4.00	0.026	4.60	0.020	5.20	0.018	5.80	0.016
3.42	0.034	4.02	0.026	4.62	0.019	5.22	0.018	5.82	0.016
3.43	0.033	4.03	0.025	4.63	0.019	5.23	0.018	5.83	0.016
3.45	0.033	4.05	0.025	4.65	0.019	5.25	0.018	5.85	0.016
3.47	0.033	4.07	0.025	4.67	0.019	5.27	0.018	5.87	0.016
3.48	0.033	4.08	0.025	4.68	0.019	5.28	0.017	5.88	0.016
3.50	0.032	4.10	0.025	4.70	0.019	5.30	0.017	5.90	0.016
3.52	0.032	4.12	0.024	4.72	0.019	5.32	0.017	5.92	0.016
3.53	0.032	4.13	0.024	4.73	0.019	5.33	0.017	5.93	0.016
3.55	0.032	4.15	0.024	4.75	0.019	5.35	0.017	5.95	0.016
3.57	0.031	4.17	0.024	4.77	0.019	5.37	0.017	5.97	0.016
3.58	0.031	4.18	0.024	4.78	0.019	5.38	0.017	5.98	0.016
3.60	0.031	4.20	0.024	4.80	0.019	5.40	0.017	6.00	0.016
3.62	0.031	4.22	0.023	4.82	0.019	5.42	0.017	6.02	0.015

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
6.03	0.015	6.63	0.014	7.23	0.013	7.83	0.011	8.43	0.010
6.05	0.015	6.65	0.014	7.25	0.013	7.85	0.011	8.45	0.010
6.07	0.015	6.67	0.014	7.27	0.013	7.87	0.011	8.47	0.010
6.08	0.015	6.68	0.014	7.28	0.013	7.88	0.011	8.48	0.010
6.10	0.015	6.70	0.014	7.30	0.013	7.90	0.011	8.50	0.010
6.12	0.015	6.72	0.014	7.32	0.012	7.92	0.011	8.52	0.010
6.13	0.015	6.73	0.014	7.33	0.012	7.93	0.011	8.53	0.010
6.15	0.015	6.75	0.014	7.35	0.012	7.95	0.011	8.55	0.010
6.17	0.015	6.77	0.014	7.37	0.012	7.97	0.011	8.57	0.010
6.18	0.015	6.78	0.014	7.38	0.012	7.98	0.011	8.58	0.010
6.20	0.015	6.80	0.014	7.40	0.012	8.00	0.011	8.60	0.010
6.22	0.015	6.82	0.014	7.42	0.012	8.02	0.011	8.62	0.010
6.23	0.015	6.83	0.014	7.43	0.012	8.03	0.011	8.63	0.010
6.25	0.015	6.85	0.013	7.45	0.012	8.05	0.011	8.65	0.010
6.27	0.015	6.87	0.013	7.47	0.012	8.07	0.011	8.67	0.010
6.28	0.015	6.88	0.013	7.48	0.012	8.08	0.011	8.68	0.010
6.30	0.015	6.90	0.013	7.50	0.012	8.10	0.011	8.70	0.010
6.32	0.015	6.92	0.013	7.52	0.012	8.12	0.011	8.72	0.010
6.33	0.015	6.93	0.013	7.53	0.012	8.13	0.011	8.73	0.010
6.35	0.015	6.95	0.013	7.55	0.012	8.15	0.011	8.75	0.010
6.37	0.015	6.97	0.013	7.57	0.012	8.17	0.011	8.77	0.010
6.38	0.015	6.98	0.013	7.58	0.012	8.18	0.011	8.78	0.010
6.40	0.015	7.00	0.013	7.60	0.012	8.20	0.011	8.80	0.010
6.42	0.014	7.02	0.013	7.62	0.012	8.22	0.011	8.82	0.010
6.43	0.014	7.03	0.013	7.63	0.012	8.23	0.011	8.83	0.010
6.45	0.014	7.05	0.013	7.65	0.012	8.25	0.011	8.85	0.010
6.47	0.014	7.07	0.013	7.67	0.012	8.27	0.011	8.87	0.010
6.48	0.014	7.08	0.013	7.68	0.012	8.28	0.011	8.88	0.010
6.50	0.014	7.10	0.013	7.70	0.012	8.30	0.011	8.90	0.010
6.52	0.014	7.12	0.013	7.72	0.012	8.32	0.011	8.92	0.010
6.53	0.014	7.13	0.013	7.73	0.012	8.33	0.011	8.93	0.010
6.55	0.014	7.15	0.013	7.75	0.012	8.35	0.011	8.95	0.010
6.57	0.014	7.17	0.013	7.77	0.012	8.37	0.011	8.97	0.010
6.58	0.014	7.18	0.013	7.78	0.012	8.38	0.010	8.98	0.009
6.60	0.014	7.20	0.013	7.80	0.012	8.40	0.010	9.00	0.009
6.62	0.014	7.22	0.013	7.82	0.011	8.42	0.010	9.02	0.009

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
9.03	0.009	9.63	0.009	10.23	0.008	10.83	0.007	11.43	0.006
9.05	0.009	9.65	0.008	10.25	0.008	10.85	0.007	11.45	0.006
9.07	0.009	9.67	0.008	10.27	0.008	10.87	0.007	11.47	0.006
9.08	0.009	9.68	0.008	10.28	0.008	10.88	0.007	11.48	0.006
9.10	0.009	9.70	0.008	10.30	0.008	10.90	0.007	11.50	0.006
9.12	0.009	9.72	0.008	10.32	0.008	10.92	0.007	11.52	0.006
9.13	0.009	9.73	0.008	10.33	0.008	10.93	0.007	11.53	0.006
9.15	0.009	9.75	0.008	10.35	0.008	10.95	0.007	11.55	0.006
9.17	0.009	9.77	0.008	10.37	0.008	10.97	0.007	11.57	0.006
9.18	0.009	9.78	0.008	10.38	0.008	10.98	0.007	11.58	0.006
9.20	0.009	9.80	0.008	10.40	0.008	11.00	0.007	11.60	0.006
9.22	0.009	9.82	0.008	10.42	0.007	11.02	0.007	11.62	0.006
9.23	0.009	9.83	0.008	10.43	0.007	11.03	0.007	11.63	0.006
9.25	0.009	9.85	0.008	10.45	0.007	11.05	0.007	11.65	0.006
9.27	0.009	9.87	0.008	10.47	0.007	11.07	0.007	11.67	0.006
9.28	0.009	9.88	0.008	10.48	0.007	11.08	0.007	11.68	0.006
9.30	0.009	9.90	0.008	10.50	0.007	11.10	0.007	11.70	0.006
9.32	0.009	9.92	0.008	10.52	0.007	11.12	0.007	11.72	0.006
9.33	0.009	9.93	0.008	10.53	0.007	11.13	0.007	11.73	0.006
9.35	0.009	9.95	0.008	10.55	0.007	11.15	0.007	11.75	0.006
9.37	0.009	9.97	0.008	10.57	0.007	11.17	0.007	11.77	0.006
9.38	0.009	9.98	0.008	10.58	0.007	11.18	0.007	11.78	0.006
9.40	0.009	10.00	0.008	10.60	0.007	11.20	0.007	11.80	0.006
9.42	0.009	10.02	0.008	10.62	0.007	11.22	0.007	11.82	0.006
9.43	0.009	10.03	0.008	10.63	0.007	11.23	0.007	11.83	0.006
9.45	0.009	10.05	0.008	10.65	0.007	11.25	0.007	11.85	0.006
9.47	0.009	10.07	0.008	10.67	0.007	11.27	0.007	11.87	0.006
9.48	0.009	10.08	0.008	10.68	0.007	11.28	0.006	11.88	0.006
9.50	0.009	10.10	0.008	10.70	0.007	11.30	0.006	11.90	0.006
9.52	0.009	10.12	0.008	10.72	0.007	11.32	0.006	11.92	0.006
9.53	0.009	10.13	0.008	10.73	0.007	11.33	0.006	11.93	0.006
9.55	0.009	10.15	0.008	10.75	0.007	11.35	0.006	11.95	0.006
9.57	0.009	10.17	0.008	10.77	0.007	11.37	0.006	11.97	0.006
9.58	0.009	10.18	0.008	10.78	0.007	11.38	0.006	11.98	0.006
9.60	0.009	10.20	0.008	10.80	0.007	11.40	0.006	12.00	0.006
9.62	0.009	10.22	0.008	10.82	0.007	11.42	0.006	12.02	0.006

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.03	0.006	12.63	0.005	13.23	0.005	13.83	0.004	14.43	0.004
12.05	0.006	12.65	0.005	13.25	0.005	13.85	0.004	14.45	0.004
12.07	0.006	12.67	0.005	13.27	0.005	13.87	0.004	14.47	0.004
12.08	0.006	12.68	0.005	13.28	0.005	13.88	0.004	14.48	0.004
12.10	0.006	12.70	0.005	13.30	0.005	13.90	0.004	14.50	0.004
12.12	0.006	12.72	0.005	13.32	0.005	13.92	0.004	14.52	0.004
12.13	0.006	12.73	0.005	13.33	0.005	13.93	0.004	14.53	0.004
12.15	0.006	12.75	0.005	13.35	0.005	13.95	0.004	14.55	0.004
12.17	0.006	12.77	0.005	13.37	0.005	13.97	0.004	14.57	0.004
12.18	0.006	12.78	0.005	13.38	0.005	13.98	0.004	14.58	0.004
12.20	0.006	12.80	0.005	13.40	0.005	14.00	0.004	14.60	0.004
12.22	0.006	12.82	0.005	13.42	0.005	14.02	0.004	14.62	0.004
12.23	0.006	12.83	0.005	13.43	0.005	14.03	0.004	14.63	0.004
12.25	0.006	12.85	0.005	13.45	0.005	14.05	0.004	14.65	0.004
12.27	0.006	12.87	0.005	13.47	0.005	14.07	0.004	14.67	0.004
12.28	0.006	12.88	0.005	13.48	0.005	14.08	0.004	14.68	0.004
12.30	0.005	12.90	0.005	13.50	0.004	14.10	0.004	14.70	0.004
12.32	0.005	12.92	0.005	13.52	0.004	14.12	0.004	14.72	0.004
12.33	0.005	12.93	0.005	13.53	0.004	14.13	0.004	14.73	0.004
12.35	0.005	12.95	0.005	13.55	0.004	14.15	0.004	14.75	0.004
12.37	0.005	12.97	0.005	13.57	0.004	14.17	0.004	14.77	0.004
12.38	0.005	12.98	0.005	13.58	0.004	14.18	0.004	14.78	0.004
12.40	0.005	13.00	0.005	13.60	0.004	14.20	0.004	14.80	0.004
12.42	0.005	13.02	0.005	13.62	0.004	14.22	0.004	14.82	0.004
12.43	0.005	13.03	0.005	13.63	0.004	14.23	0.004	14.83	0.004
12.45	0.005	13.05	0.005	13.65	0.004	14.25	0.004	14.85	0.004
12.47	0.005	13.07	0.005	13.67	0.004	14.27	0.004	14.87	0.004
12.48	0.005	13.08	0.005	13.68	0.004	14.28	0.004	14.88	0.004
12.50	0.005	13.10	0.005	13.70	0.004	14.30	0.004	14.90	0.004
12.52	0.005	13.12	0.005	13.72	0.004	14.32	0.004	14.92	0.004
12.53	0.005	13.13	0.005	13.73	0.004	14.33	0.004	14.93	0.004
12.55	0.005	13.15	0.005	13.75	0.004	14.35	0.004	14.95	0.004
12.57	0.005	13.17	0.005	13.77	0.004	14.37	0.004	14.97	0.004
12.58	0.005	13.18	0.005	13.78	0.004	14.38	0.004	14.98	0.004
12.60	0.005	13.20	0.005	13.80	0.004	14.40	0.004	15.00	0.004
12.62	0.005	13.22	0.005	13.82	0.004	14.42	0.004	15.02	0.004

Hydrograph Discharge Table, cont'd

Pond

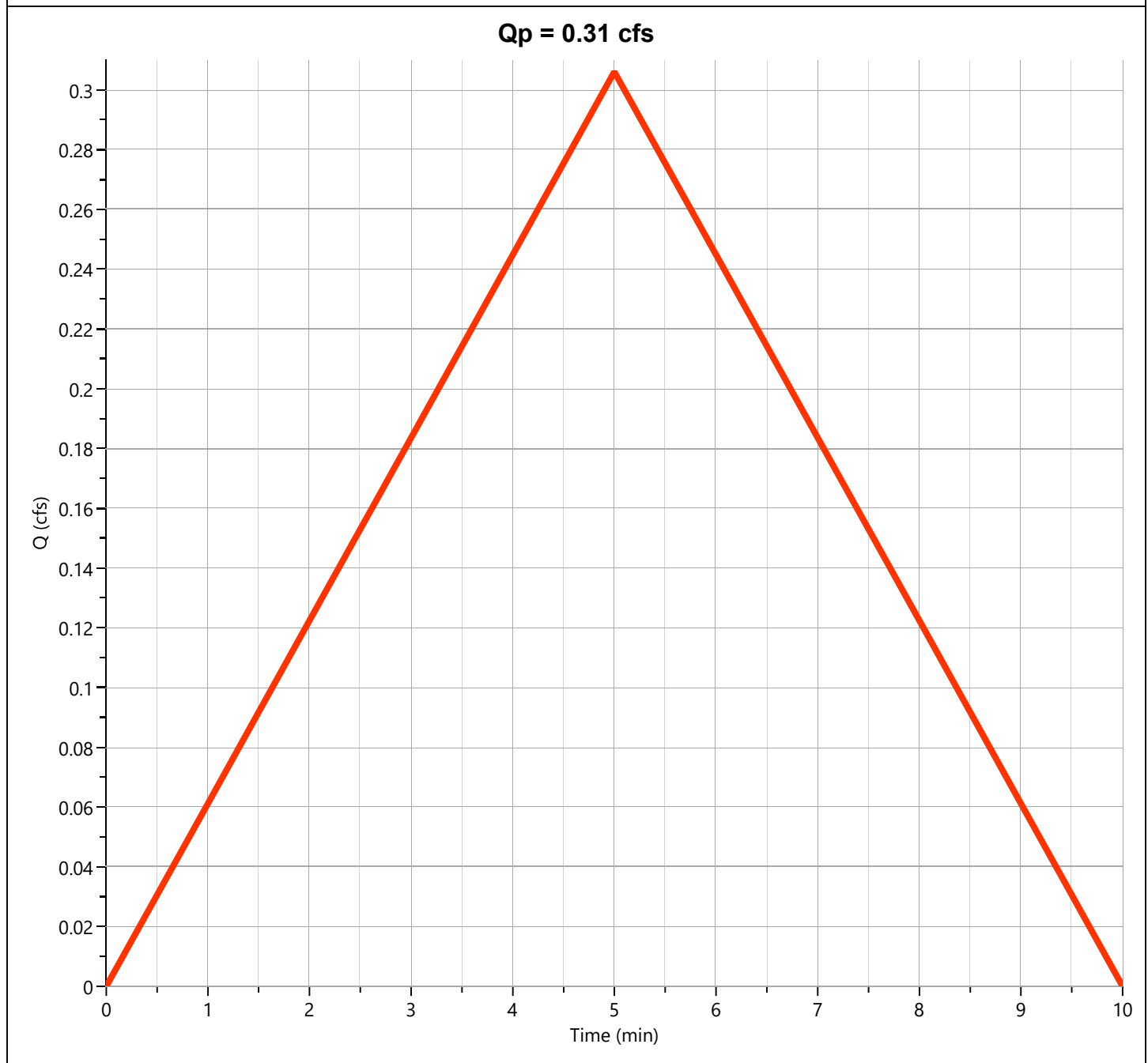
Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
15.03	0.003	15.63	0.003	16.23	0.003	16.83	0.003	17.43	0.002
15.05	0.003	15.65	0.003	16.25	0.003	16.85	0.003	17.45	0.002
15.07	0.003	15.67	0.003	16.27	0.003	16.87	0.003	17.47	0.002
15.08	0.003	15.68	0.003	16.28	0.003	16.88	0.003	17.48	0.002
15.10	0.003	15.70	0.003	16.30	0.003	16.90	0.003	17.50	0.002
15.12	0.003	15.72	0.003	16.32	0.003	16.92	0.003	17.52	0.002
15.13	0.003	15.73	0.003	16.33	0.003	16.93	0.003	17.53	0.002
15.15	0.003	15.75	0.003	16.35	0.003	16.95	0.003	17.55	0.002
15.17	0.003	15.77	0.003	16.37	0.003	16.97	0.003	17.57	0.002
15.18	0.003	15.78	0.003	16.38	0.003	16.98	0.003	...end	...end
15.20	0.003	15.80	0.003	16.40	0.003	17.00	0.003		
15.22	0.003	15.82	0.003	16.42	0.003	17.02	0.003		
15.23	0.003	15.83	0.003	16.43	0.003	17.03	0.003		
15.25	0.003	15.85	0.003	16.45	0.003	17.05	0.003		
15.27	0.003	15.87	0.003	16.47	0.003	17.07	0.002		
15.28	0.003	15.88	0.003	16.48	0.003	17.08	0.002		
15.30	0.003	15.90	0.003	16.50	0.003	17.10	0.002		
15.32	0.003	15.92	0.003	16.52	0.003	17.12	0.002		
15.33	0.003	15.93	0.003	16.53	0.003	17.13	0.002		
15.35	0.003	15.95	0.003	16.55	0.003	17.15	0.002		
15.37	0.003	15.97	0.003	16.57	0.003	17.17	0.002		
15.38	0.003	15.98	0.003	16.58	0.003	17.18	0.002		
15.40	0.003	16.00	0.003	16.60	0.003	17.20	0.002		
15.42	0.003	16.02	0.003	16.62	0.003	17.22	0.002		
15.43	0.003	16.03	0.003	16.63	0.003	17.23	0.002		
15.45	0.003	16.05	0.003	16.65	0.003	17.25	0.002		
15.47	0.003	16.07	0.003	16.67	0.003	17.27	0.002		
15.48	0.003	16.08	0.003	16.68	0.003	17.28	0.002		
15.50	0.003	16.10	0.003	16.70	0.003	17.30	0.002		
15.52	0.003	16.12	0.003	16.72	0.003	17.32	0.002		
15.53	0.003	16.13	0.003	16.73	0.003	17.33	0.002		
15.55	0.003	16.15	0.003	16.75	0.003	17.35	0.002		
15.57	0.003	16.17	0.003	16.77	0.003	17.37	0.002		
15.58	0.003	16.18	0.003	16.78	0.003	17.38	0.002		
15.60	0.003	16.20	0.003	16.80	0.003	17.40	0.002		
15.62	0.003	16.22	0.003	16.82	0.003	17.42	0.002		

Hydrograph Report

Direct Runoff

Hyd. No. 4

Hydrograph Type	= Rational	Peak Flow	= 0.306 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 91.8 cuft
Drainage Area	= 0.03 ac	Runoff Coeff.	= 0.85
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 12.00 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Design Storm Report

Custom Storm filename:

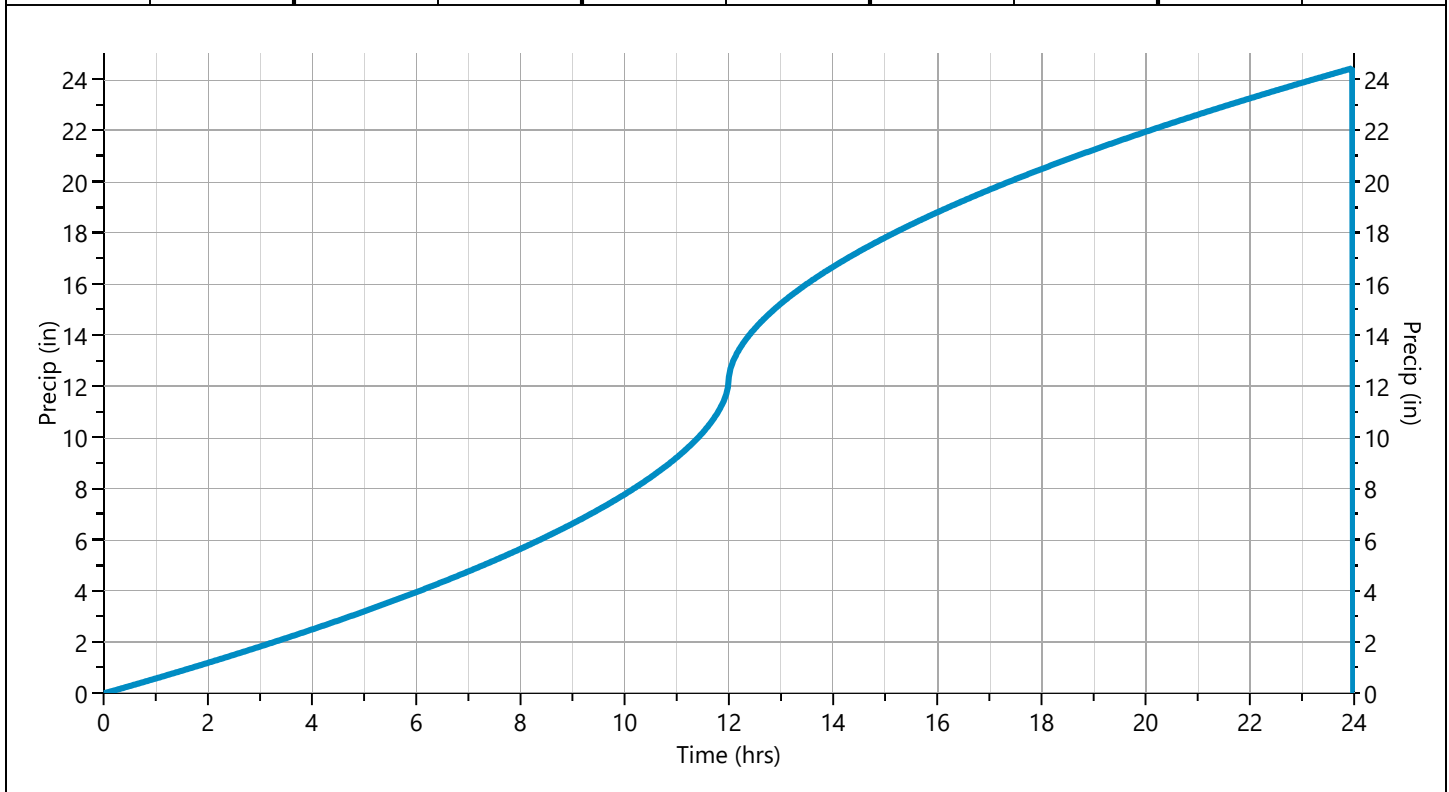
Hydrology Studio v 3.0.0.26

09-06-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	10-yr	✓ 25-yr	50-yr	100-yr	
24 hrs	12.54	14.52	0	17.79	20.45	24.46	27.58	30.53	

Incremental Rainfall Distribution, 25-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.038133	11.68	0.046428	11.87	0.067148	12.05	0.108421	12.23	0.053754
11.52	0.038696	11.70	0.047519	11.88	0.071036	12.07	0.094687	12.25	0.052135
11.53	0.039286	11.72	0.048699	11.90	0.075781	12.08	0.085411	12.27	0.050667
11.55	0.039907	11.73	0.049982	11.92	0.081764	12.10	0.078586	12.28	0.049327
11.57	0.040562	11.75	0.051384	11.93	0.089655	12.12	0.073282	12.30	0.048097
11.58	0.041254	11.77	0.052924	11.95	0.100789	12.13	0.069002	12.32	0.046963
11.60	0.041986	11.78	0.054628	11.97	0.118371	12.15	0.065449	12.33	0.045912
11.62	0.042763	11.80	0.056527	11.98	0.153345	12.17	0.062435	12.35	0.044935
11.63	0.043590	11.82	0.058663	12.00	0.403062	12.18	0.059836	12.37	0.044024
11.65	0.044472	11.83	0.061090	12.02	0.193052	12.20	0.057562	12.38	0.043170
11.67	0.045415	11.85	0.063884	12.03	0.132171	12.22	0.055551	12.40	0.042369



Hydrograph 100-yr Summary

Project Name: Fire Depart - #1

Hydrology Studio v 3.0.0.26

09-06-2022

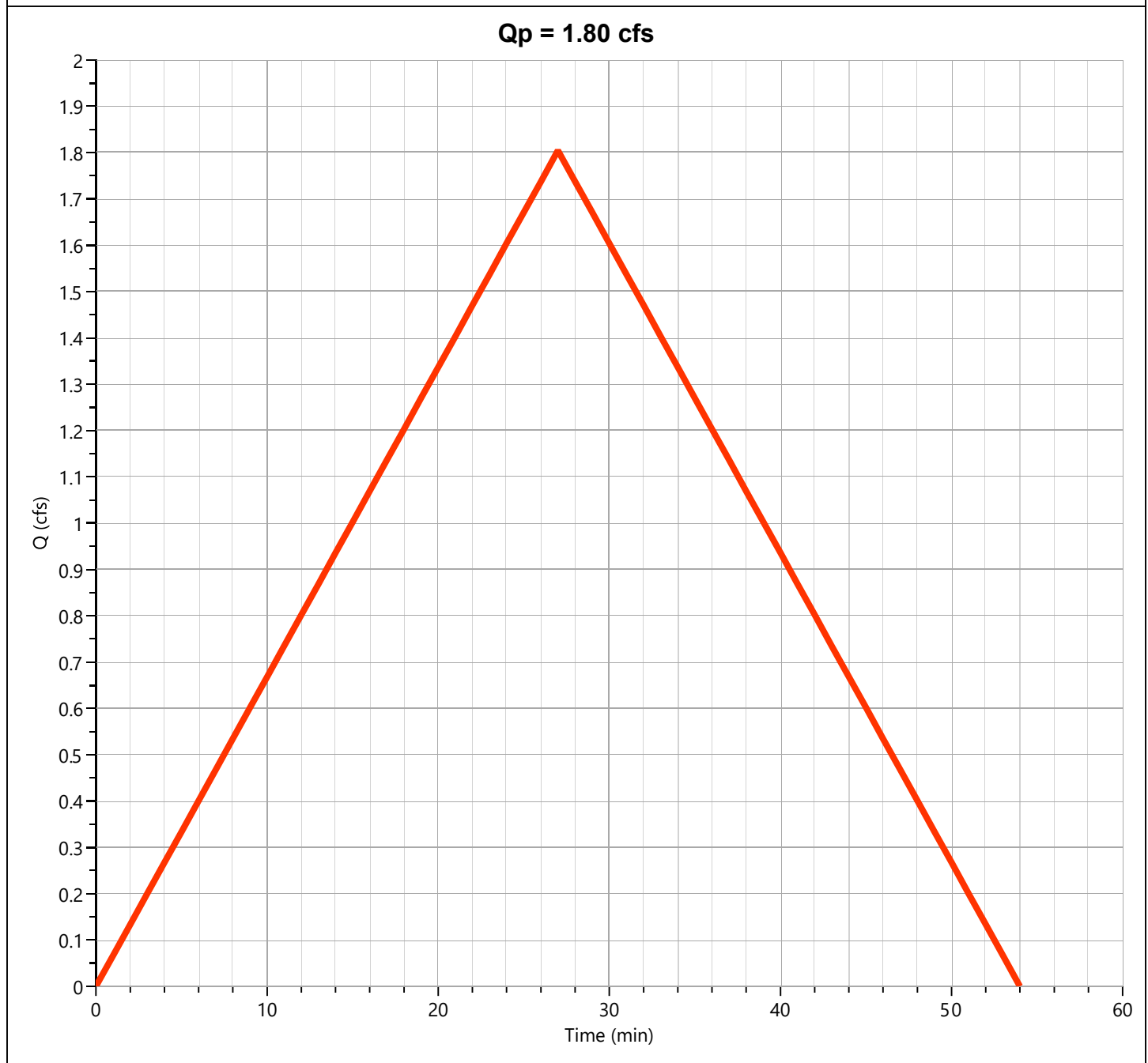
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	1.804	0.45	2,923	---		
2	Rational	Post Construction	6.849	0.08	2,055	---		
3	Pond Route	Pond	0.317	0.17	2,033	2	7.07	1,973
4	Rational	Direct Runoff	0.380	0.08	114	---		

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 1.804 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.45 hrs
Time Interval	= 1 min	Runoff Volume	= 2,923 cuft
Drainage Area	= 1.008 ac	Runoff Coeff.	= 0.25
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 27.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 7.16 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.067	37	1.136						
2	0.134	38	1.069						
3	0.200	39	1.002						
4	0.267	40	0.936						
5	0.334	41	0.869						
6	0.401	42	0.802						
7	0.468	43	0.735						
8	0.535	44	0.668						
9	0.601	45	0.601						
10	0.668	46	0.535						
11	0.735	47	0.468						
12	0.802	48	0.401						
13	0.869	49	0.334						
14	0.936	50	0.267						
15	1.002	51	0.200						
16	1.069	52	0.134						
17	1.136	53	0.067						
18	1.203	54	0.000						
19	1.270	...end	...end						
20	1.337								
21	1.403								
22	1.470								
23	1.537								
24	1.604								
25	1.671								
26	1.738								
27	1.804								
28	1.738								
29	1.671								
30	1.604								
31	1.537								
32	1.470								
33	1.403								
34	1.337								
35	1.270								
36	1.203								

Hydrograph Report

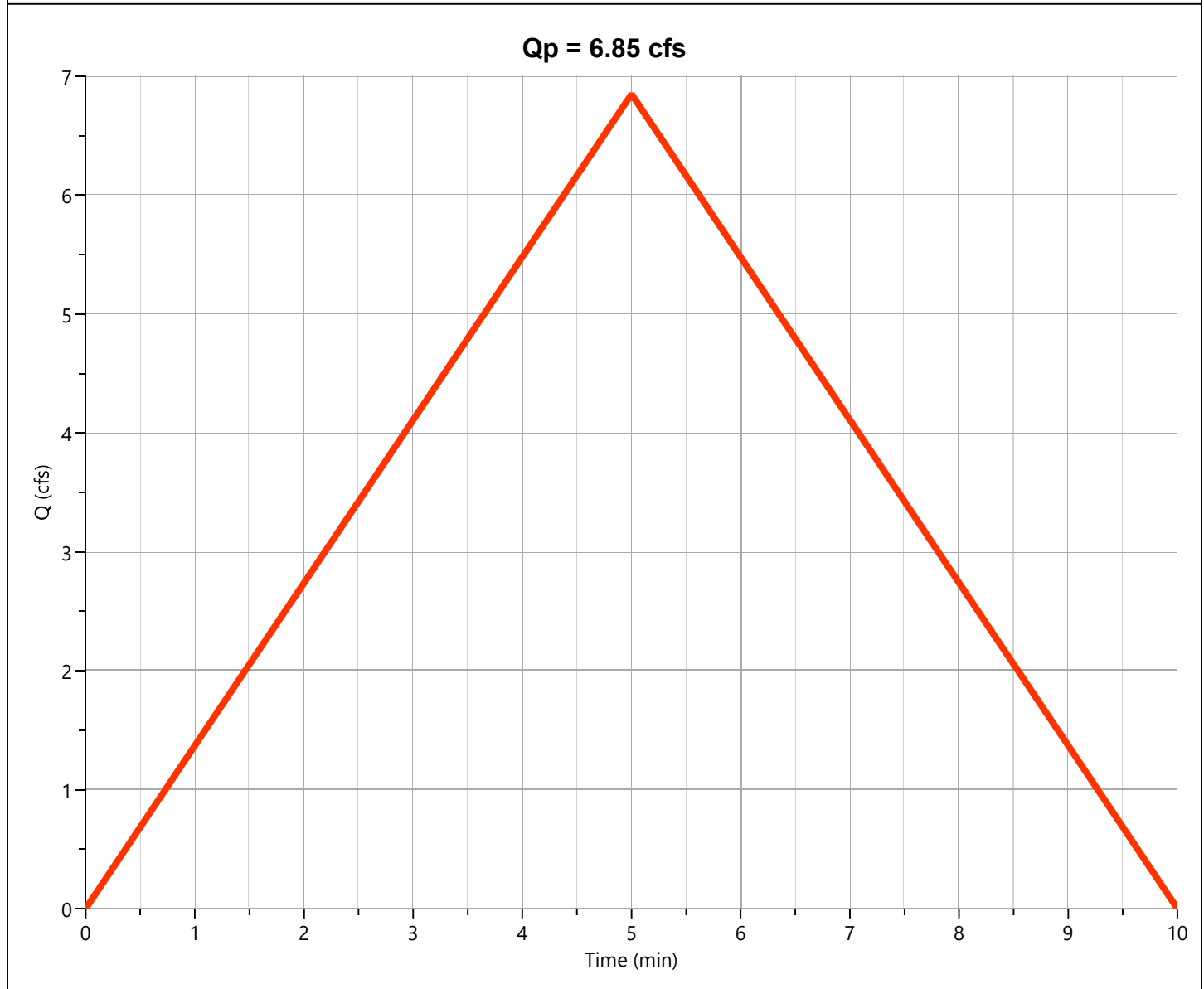
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 6.849 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 2,055 cuft
Drainage Area	= 0.978 ac	Runoff Coeff.	= 0.47*
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 14.90 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.238	0.85	impervious
0.74	0.35	grass
0.978	0.47	



Hydrograph Report

Pond

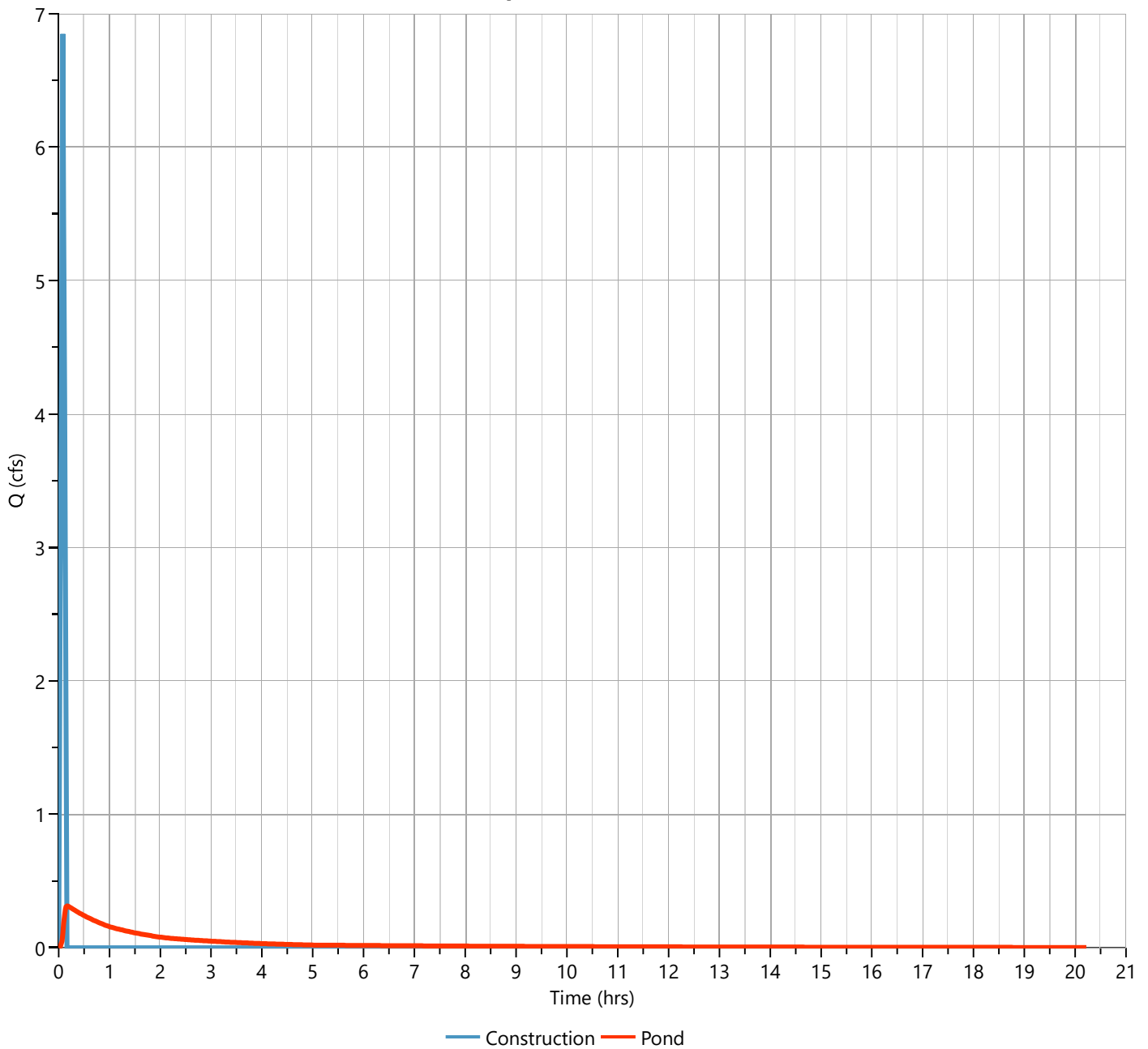
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 0.317 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Hydrograph Volume	= 2,033 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 7.07 ft
Pond Name	= Pond	Max. Storage	= 1,973 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 2.73 hrs

Qp = 0.32 cfs



Hydrograph Discharge Table

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
0.03	0.008	0.63	0.215	1.23	0.134	1.83	0.088	2.43	0.063
0.05	0.017	0.65	0.212	1.25	0.132	1.85	0.087	2.45	0.063
0.07	0.049	0.67	0.209	1.27	0.131	1.87	0.086	2.47	0.062
0.08	0.106	0.68	0.206	1.28	0.129	1.88	0.085	2.48	0.062
0.10	0.180	0.70	0.203	1.30	0.128	1.90	0.084	2.50	0.061
0.12	0.244	0.72	0.200	1.32	0.126	1.92	0.084	2.52	0.061
0.13	0.288	0.73	0.198	1.33	0.125	1.93	0.083	2.53	0.060
0.15	0.312	0.75	0.195	1.35	0.124	1.95	0.082	2.55	0.060
0.17	0.317	0.77	0.192	1.37	0.122	1.97	0.081	2.57	0.059
0.18	0.313	0.78	0.189	1.38	0.121	1.98	0.080	2.58	0.059
0.20	0.308	0.80	0.187	1.40	0.119	2.00	0.079	2.60	0.059
0.22	0.304	0.82	0.184	1.42	0.118	2.02	0.078	2.62	0.058
0.23	0.300	0.83	0.182	1.43	0.117	2.03	0.077	2.63	0.058
0.25	0.296	0.85	0.179	1.45	0.115	2.05	0.076	2.65	0.057
0.27	0.292	0.87	0.176	1.47	0.114	2.07	0.075	2.67	0.057
0.28	0.288	0.88	0.174	1.48	0.113	2.08	0.074	2.68	0.056
0.30	0.284	0.90	0.172	1.50	0.111	2.10	0.074	2.70	0.056
0.32	0.280	0.92	0.169	1.52	0.110	2.12	0.073	2.72	0.056
0.33	0.276	0.93	0.167	1.53	0.109	2.13	0.073	2.73	0.055
0.35	0.273	0.95	0.164	1.55	0.108	2.15	0.072	2.75	0.055
0.37	0.269	0.97	0.162	1.57	0.106	2.17	0.071	2.77	0.054
0.38	0.265	0.98	0.160	1.58	0.105	2.18	0.071	2.78	0.054
0.40	0.262	1.00	0.158	1.60	0.104	2.20	0.070	2.80	0.053
0.42	0.258	1.02	0.155	1.62	0.103	2.22	0.070	2.82	0.053
0.43	0.255	1.03	0.154	1.63	0.102	2.23	0.069	2.83	0.053
0.45	0.251	1.05	0.152	1.65	0.100	2.25	0.069	2.85	0.052
0.47	0.248	1.07	0.150	1.67	0.099	2.27	0.068	2.87	0.052
0.48	0.244	1.08	0.148	1.68	0.098	2.28	0.068	2.88	0.051
0.50	0.241	1.10	0.147	1.70	0.097	2.30	0.067	2.90	0.051
0.52	0.237	1.12	0.145	1.72	0.096	2.32	0.067	2.92	0.051
0.53	0.234	1.13	0.143	1.73	0.095	2.33	0.066	2.93	0.050
0.55	0.231	1.15	0.142	1.75	0.094	2.35	0.066	2.95	0.050
0.57	0.228	1.17	0.140	1.77	0.093	2.37	0.065	2.97	0.049
0.58	0.224	1.18	0.139	1.78	0.092	2.38	0.065	2.98	0.049
0.60	0.221	1.20	0.137	1.80	0.091	2.40	0.064	3.00	0.049
0.62	0.218	1.22	0.135	1.82	0.089	2.42	0.064	3.02	0.048

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
3.03	0.048	3.63	0.036	4.23	0.028	4.83	0.021	5.43	0.018
3.05	0.048	3.65	0.036	4.25	0.027	4.85	0.021	5.45	0.018
3.07	0.047	3.67	0.036	4.27	0.027	4.87	0.021	5.47	0.018
3.08	0.047	3.68	0.036	4.28	0.027	4.88	0.021	5.48	0.018
3.10	0.047	3.70	0.035	4.30	0.027	4.90	0.020	5.50	0.018
3.12	0.046	3.72	0.035	4.32	0.027	4.92	0.020	5.52	0.018
3.13	0.046	3.73	0.035	4.33	0.026	4.93	0.020	5.53	0.018
3.15	0.045	3.75	0.035	4.35	0.026	4.95	0.020	5.55	0.018
3.17	0.045	3.77	0.034	4.37	0.026	4.97	0.020	5.57	0.018
3.18	0.045	3.78	0.034	4.38	0.026	4.98	0.020	5.58	0.018
3.20	0.044	3.80	0.034	4.40	0.026	5.00	0.020	5.60	0.018
3.22	0.044	3.82	0.033	4.42	0.025	5.02	0.019	5.62	0.018
3.23	0.044	3.83	0.033	4.43	0.025	5.03	0.019	5.63	0.018
3.25	0.043	3.85	0.033	4.45	0.025	5.05	0.019	5.65	0.018
3.27	0.043	3.87	0.033	4.47	0.025	5.07	0.019	5.67	0.017
3.28	0.043	3.88	0.032	4.48	0.025	5.08	0.019	5.68	0.017
3.30	0.042	3.90	0.032	4.50	0.024	5.10	0.019	5.70	0.017
3.32	0.042	3.92	0.032	4.52	0.024	5.12	0.019	5.72	0.017
3.33	0.042	3.93	0.032	4.53	0.024	5.13	0.019	5.73	0.017
3.35	0.042	3.95	0.032	4.55	0.024	5.15	0.019	5.75	0.017
3.37	0.041	3.97	0.031	4.57	0.024	5.17	0.019	5.77	0.017
3.38	0.041	3.98	0.031	4.58	0.024	5.18	0.019	5.78	0.017
3.40	0.041	4.00	0.031	4.60	0.023	5.20	0.019	5.80	0.017
3.42	0.040	4.02	0.031	4.62	0.023	5.22	0.019	5.82	0.017
3.43	0.040	4.03	0.030	4.63	0.023	5.23	0.019	5.83	0.017
3.45	0.040	4.05	0.030	4.65	0.023	5.25	0.019	5.85	0.017
3.47	0.039	4.07	0.030	4.67	0.023	5.27	0.019	5.87	0.017
3.48	0.039	4.08	0.030	4.68	0.022	5.28	0.019	5.88	0.017
3.50	0.039	4.10	0.029	4.70	0.022	5.30	0.019	5.90	0.017
3.52	0.038	4.12	0.029	4.72	0.022	5.32	0.019	5.92	0.017
3.53	0.038	4.13	0.029	4.73	0.022	5.33	0.018	5.93	0.017
3.55	0.038	4.15	0.029	4.75	0.022	5.35	0.018	5.95	0.017
3.57	0.038	4.17	0.029	4.77	0.022	5.37	0.018	5.97	0.017
3.58	0.037	4.18	0.028	4.78	0.021	5.38	0.018	5.98	0.017
3.60	0.037	4.20	0.028	4.80	0.021	5.40	0.018	6.00	0.017
3.62	0.037	4.22	0.028	4.82	0.021	5.42	0.018	6.02	0.016

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
6.03	0.016	6.63	0.015	7.23	0.013	7.83	0.012	8.43	0.011
6.05	0.016	6.65	0.015	7.25	0.013	7.85	0.012	8.45	0.011
6.07	0.016	6.67	0.015	7.27	0.013	7.87	0.012	8.47	0.011
6.08	0.016	6.68	0.015	7.28	0.013	7.88	0.012	8.48	0.011
6.10	0.016	6.70	0.015	7.30	0.013	7.90	0.012	8.50	0.011
6.12	0.016	6.72	0.015	7.32	0.013	7.92	0.012	8.52	0.011
6.13	0.016	6.73	0.015	7.33	0.013	7.93	0.012	8.53	0.011
6.15	0.016	6.75	0.015	7.35	0.013	7.95	0.012	8.55	0.011
6.17	0.016	6.77	0.015	7.37	0.013	7.97	0.012	8.57	0.011
6.18	0.016	6.78	0.015	7.38	0.013	7.98	0.012	8.58	0.011
6.20	0.016	6.80	0.014	7.40	0.013	8.00	0.012	8.60	0.011
6.22	0.016	6.82	0.014	7.42	0.013	8.02	0.012	8.62	0.011
6.23	0.016	6.83	0.014	7.43	0.013	8.03	0.012	8.63	0.011
6.25	0.016	6.85	0.014	7.45	0.013	8.05	0.012	8.65	0.011
6.27	0.016	6.87	0.014	7.47	0.013	8.07	0.012	8.67	0.011
6.28	0.016	6.88	0.014	7.48	0.013	8.08	0.012	8.68	0.011
6.30	0.016	6.90	0.014	7.50	0.013	8.10	0.012	8.70	0.011
6.32	0.016	6.92	0.014	7.52	0.013	8.12	0.012	8.72	0.011
6.33	0.016	6.93	0.014	7.53	0.013	8.13	0.012	8.73	0.011
6.35	0.016	6.95	0.014	7.55	0.013	8.15	0.012	8.75	0.011
6.37	0.016	6.97	0.014	7.57	0.013	8.17	0.012	8.77	0.010
6.38	0.016	6.98	0.014	7.58	0.013	8.18	0.012	8.78	0.010
6.40	0.015	7.00	0.014	7.60	0.013	8.20	0.011	8.80	0.010
6.42	0.015	7.02	0.014	7.62	0.013	8.22	0.011	8.82	0.010
6.43	0.015	7.03	0.014	7.63	0.013	8.23	0.011	8.83	0.010
6.45	0.015	7.05	0.014	7.65	0.013	8.25	0.011	8.85	0.010
6.47	0.015	7.07	0.014	7.67	0.013	8.27	0.011	8.87	0.010
6.48	0.015	7.08	0.014	7.68	0.013	8.28	0.011	8.88	0.010
6.50	0.015	7.10	0.014	7.70	0.012	8.30	0.011	8.90	0.010
6.52	0.015	7.12	0.014	7.72	0.012	8.32	0.011	8.92	0.010
6.53	0.015	7.13	0.014	7.73	0.012	8.33	0.011	8.93	0.010
6.55	0.015	7.15	0.014	7.75	0.012	8.35	0.011	8.95	0.010
6.57	0.015	7.17	0.014	7.77	0.012	8.37	0.011	8.97	0.010
6.58	0.015	7.18	0.014	7.78	0.012	8.38	0.011	8.98	0.010
6.60	0.015	7.20	0.014	7.80	0.012	8.40	0.011	9.00	0.010
6.62	0.015	7.22	0.014	7.82	0.012	8.42	0.011	9.02	0.010

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
9.03	0.010	9.63	0.009	10.23	0.008	10.83	0.007	11.43	0.007
9.05	0.010	9.65	0.009	10.25	0.008	10.85	0.007	11.45	0.007
9.07	0.010	9.67	0.009	10.27	0.008	10.87	0.007	11.47	0.007
9.08	0.010	9.68	0.009	10.28	0.008	10.88	0.007	11.48	0.007
9.10	0.010	9.70	0.009	10.30	0.008	10.90	0.007	11.50	0.007
9.12	0.010	9.72	0.009	10.32	0.008	10.92	0.007	11.52	0.007
9.13	0.010	9.73	0.009	10.33	0.008	10.93	0.007	11.53	0.007
9.15	0.010	9.75	0.009	10.35	0.008	10.95	0.007	11.55	0.007
9.17	0.010	9.77	0.009	10.37	0.008	10.97	0.007	11.57	0.007
9.18	0.010	9.78	0.009	10.38	0.008	10.98	0.007	11.58	0.007
9.20	0.010	9.80	0.009	10.40	0.008	11.00	0.007	11.60	0.007
9.22	0.010	9.82	0.009	10.42	0.008	11.02	0.007	11.62	0.007
9.23	0.010	9.83	0.009	10.43	0.008	11.03	0.007	11.63	0.007
9.25	0.010	9.85	0.009	10.45	0.008	11.05	0.007	11.65	0.007
9.27	0.010	9.87	0.009	10.47	0.008	11.07	0.007	11.67	0.006
9.28	0.010	9.88	0.009	10.48	0.008	11.08	0.007	11.68	0.006
9.30	0.010	9.90	0.009	10.50	0.008	11.10	0.007	11.70	0.006
9.32	0.010	9.92	0.009	10.52	0.008	11.12	0.007	11.72	0.006
9.33	0.010	9.93	0.009	10.53	0.008	11.13	0.007	11.73	0.006
9.35	0.010	9.95	0.009	10.55	0.008	11.15	0.007	11.75	0.006
9.37	0.009	9.97	0.009	10.57	0.008	11.17	0.007	11.77	0.006
9.38	0.009	9.98	0.009	10.58	0.008	11.18	0.007	11.78	0.006
9.40	0.009	10.00	0.009	10.60	0.008	11.20	0.007	11.80	0.006
9.42	0.009	10.02	0.009	10.62	0.008	11.22	0.007	11.82	0.006
9.43	0.009	10.03	0.008	10.63	0.008	11.23	0.007	11.83	0.006
9.45	0.009	10.05	0.008	10.65	0.008	11.25	0.007	11.85	0.006
9.47	0.009	10.07	0.008	10.67	0.008	11.27	0.007	11.87	0.006
9.48	0.009	10.08	0.008	10.68	0.008	11.28	0.007	11.88	0.006
9.50	0.009	10.10	0.008	10.70	0.008	11.30	0.007	11.90	0.006
9.52	0.009	10.12	0.008	10.72	0.008	11.32	0.007	11.92	0.006
9.53	0.009	10.13	0.008	10.73	0.008	11.33	0.007	11.93	0.006
9.55	0.009	10.15	0.008	10.75	0.008	11.35	0.007	11.95	0.006
9.57	0.009	10.17	0.008	10.77	0.008	11.37	0.007	11.97	0.006
9.58	0.009	10.18	0.008	10.78	0.008	11.38	0.007	11.98	0.006
9.60	0.009	10.20	0.008	10.80	0.007	11.40	0.007	12.00	0.006
9.62	0.009	10.22	0.008	10.82	0.007	11.42	0.007	12.02	0.006

Hydrograph Discharge Table, cont'd

Pond

Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
12.03	0.006	12.63	0.006	13.23	0.005	13.83	0.005	14.43	0.004
12.05	0.006	12.65	0.006	13.25	0.005	13.85	0.005	14.45	0.004
12.07	0.006	12.67	0.006	13.27	0.005	13.87	0.005	14.47	0.004
12.08	0.006	12.68	0.005	13.28	0.005	13.88	0.005	14.48	0.004
12.10	0.006	12.70	0.005	13.30	0.005	13.90	0.004	14.50	0.004
12.12	0.006	12.72	0.005	13.32	0.005	13.92	0.004	14.52	0.004
12.13	0.006	12.73	0.005	13.33	0.005	13.93	0.004	14.53	0.004
12.15	0.006	12.75	0.005	13.35	0.005	13.95	0.004	14.55	0.004
12.17	0.006	12.77	0.005	13.37	0.005	13.97	0.004	14.57	0.004
12.18	0.006	12.78	0.005	13.38	0.005	13.98	0.004	14.58	0.004
12.20	0.006	12.80	0.005	13.40	0.005	14.00	0.004	14.60	0.004
12.22	0.006	12.82	0.005	13.42	0.005	14.02	0.004	14.62	0.004
12.23	0.006	12.83	0.005	13.43	0.005	14.03	0.004	14.63	0.004
12.25	0.006	12.85	0.005	13.45	0.005	14.05	0.004	14.65	0.004
12.27	0.006	12.87	0.005	13.47	0.005	14.07	0.004	14.67	0.004
12.28	0.006	12.88	0.005	13.48	0.005	14.08	0.004	14.68	0.004
12.30	0.006	12.90	0.005	13.50	0.005	14.10	0.004	14.70	0.004
12.32	0.006	12.92	0.005	13.52	0.005	14.12	0.004	14.72	0.004
12.33	0.006	12.93	0.005	13.53	0.005	14.13	0.004	14.73	0.004
12.35	0.006	12.95	0.005	13.55	0.005	14.15	0.004	14.75	0.004
12.37	0.006	12.97	0.005	13.57	0.005	14.17	0.004	14.77	0.004
12.38	0.006	12.98	0.005	13.58	0.005	14.18	0.004	14.78	0.004
12.40	0.006	13.00	0.005	13.60	0.005	14.20	0.004	14.80	0.004
12.42	0.006	13.02	0.005	13.62	0.005	14.22	0.004	14.82	0.004
12.43	0.006	13.03	0.005	13.63	0.005	14.23	0.004	14.83	0.004
12.45	0.006	13.05	0.005	13.65	0.005	14.25	0.004	14.85	0.004
12.47	0.006	13.07	0.005	13.67	0.005	14.27	0.004	14.87	0.004
12.48	0.006	13.08	0.005	13.68	0.005	14.28	0.004	14.88	0.004
12.50	0.006	13.10	0.005	13.70	0.005	14.30	0.004	14.90	0.004
12.52	0.006	13.12	0.005	13.72	0.005	14.32	0.004	14.92	0.004
12.53	0.006	13.13	0.005	13.73	0.005	14.33	0.004	14.93	0.004
12.55	0.006	13.15	0.005	13.75	0.005	14.35	0.004	14.95	0.004
12.57	0.006	13.17	0.005	13.77	0.005	14.37	0.004	14.97	0.004
12.58	0.006	13.18	0.005	13.78	0.005	14.38	0.004	14.98	0.004
12.60	0.006	13.20	0.005	13.80	0.005	14.40	0.004	15.00	0.004
12.62	0.006	13.22	0.005	13.82	0.005	14.42	0.004	15.02	0.004

Hydrograph Discharge Table, cont'd

Pond

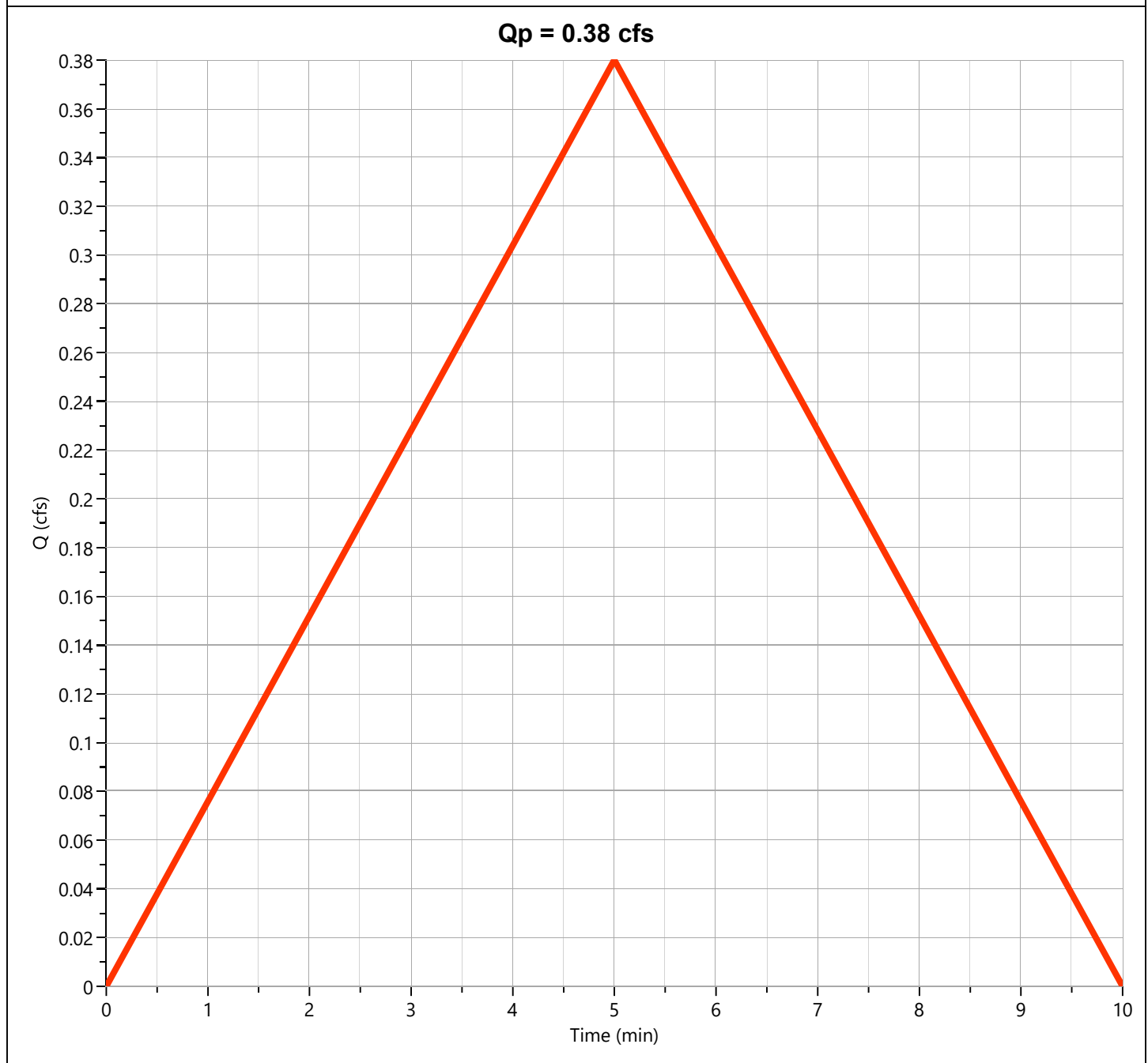
Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)	Time (hrs)	Outflow (cfs)
15.03	0.004	15.63	0.003						
15.05	0.004	15.65	0.003						
15.07	0.004	15.67	0.003						
15.08	0.004	15.68	0.003						
15.10	0.004	15.70	0.003						
15.12	0.004	15.72	0.003						
15.13	0.004	15.73	0.003						
15.15	0.004	15.75	0.003						
15.17	0.004	15.77	0.003						
15.18	0.004	15.78	0.003						
15.20	0.004	15.80	0.003						
15.22	0.004	15.82	0.003						
15.23	0.004	15.83	0.003						
15.25	0.004	15.85	0.003						
15.27	0.004	15.87	0.003						
15.28	0.004	15.88	0.003						
15.30	0.004	15.90	0.003						
15.32	0.004	15.92	0.003						
15.33	0.004	15.93	0.003						
15.35	0.004	15.95	0.003						
15.37	0.004	15.97	0.003						
15.38	0.004	15.98	0.003						
15.40	0.004	16.00	0.003						
15.42	0.003	16.02	0.003						
15.43	0.003	...end	...end						
15.45	0.003								
15.47	0.003								
15.48	0.003								
15.50	0.003								
15.52	0.003								
15.53	0.003								
15.55	0.003								
15.57	0.003								
15.58	0.003								
15.60	0.003								
15.62	0.003								

Hydrograph Report

Direct Runoff

Hyd. No. 4

Hydrograph Type	= Rational	Peak Flow	= 0.380 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.08 hrs
Time Interval	= 1 min	Runoff Volume	= 114 cuft
Drainage Area	= 0.03 ac	Runoff Coeff.	= 0.85
Tc Method	= User	Time of Conc. (Tc)	= 5.0 min
IDF Curve	= MandevilleLA (6).idf	Intensity	= 14.90 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Design Storm Report

Custom Storm filename:

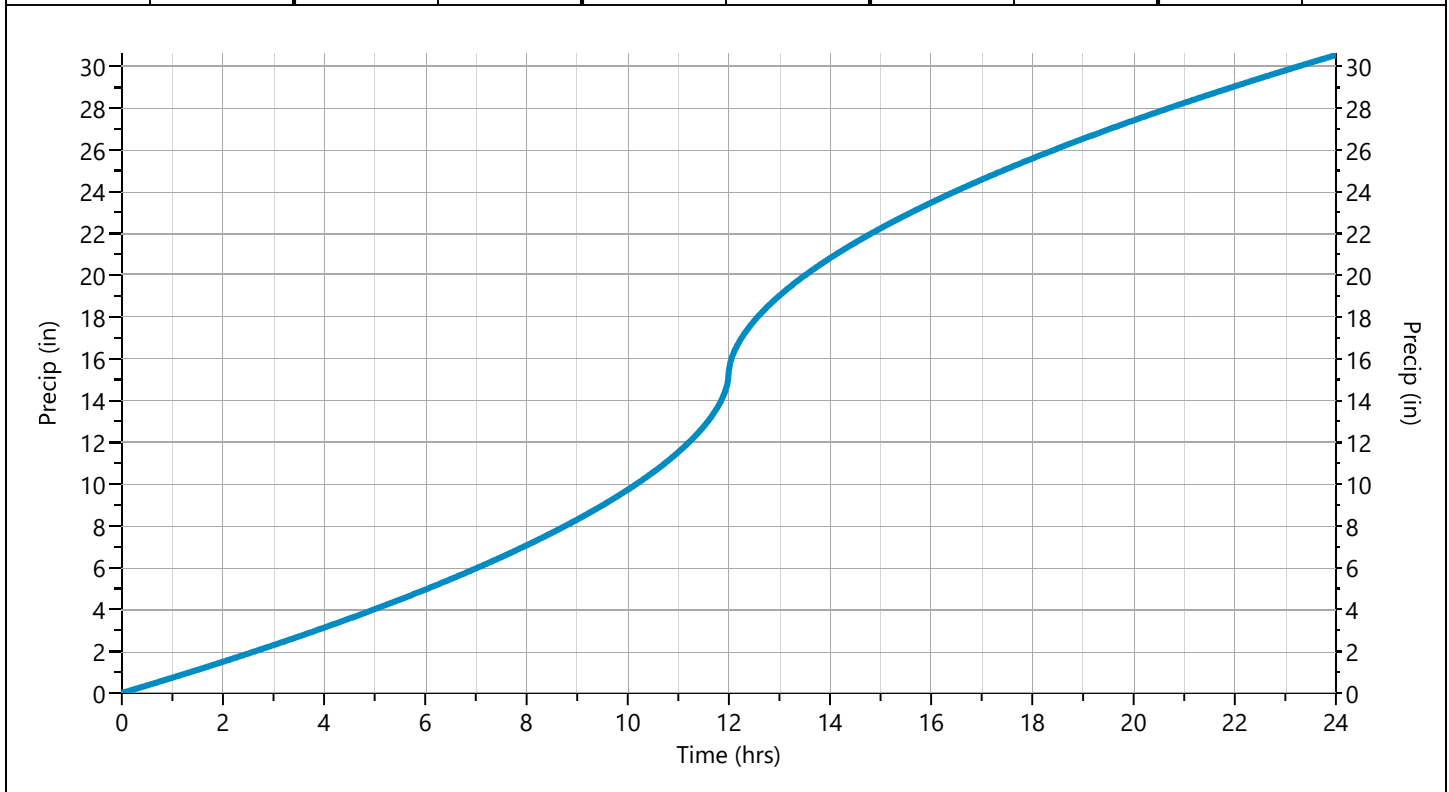
Hydrology Studio v 3.0.0.26

09-06-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	✓ 100-yr
24 hrs	12.54	14.52	0	17.79	20.45	24.46	27.58	30.53

Incremental Rainfall Distribution, 100-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.047527	11.68	0.057842	11.87	0.083594	12.05	0.134844	12.23	0.066950
11.52	0.048227	11.70	0.059199	11.88	0.088424	12.07	0.117796	12.25	0.064938
11.53	0.048961	11.72	0.060667	11.90	0.094319	12.08	0.106278	12.27	0.063113
11.55	0.049734	11.73	0.062262	11.92	0.101750	12.10	0.097802	12.28	0.061447
11.57	0.050549	11.75	0.064004	11.93	0.111549	12.12	0.091215	12.30	0.059918
11.58	0.051409	11.77	0.065918	11.95	0.125372	12.13	0.085897	12.32	0.058507
11.60	0.052320	11.78	0.068037	11.97	0.147193	12.15	0.081483	12.33	0.057201
11.62	0.053287	11.80	0.070397	11.98	0.190583	12.17	0.077739	12.35	0.055987
11.63	0.054314	11.82	0.073051	12.00	0.499757	12.18	0.074509	12.37	0.054853
11.65	0.055410	11.83	0.076067	12.02	0.239818	12.20	0.071683	12.38	0.053792
11.67	0.056583	11.85	0.079538	12.03	0.164317	12.22	0.069183	12.40	0.052796



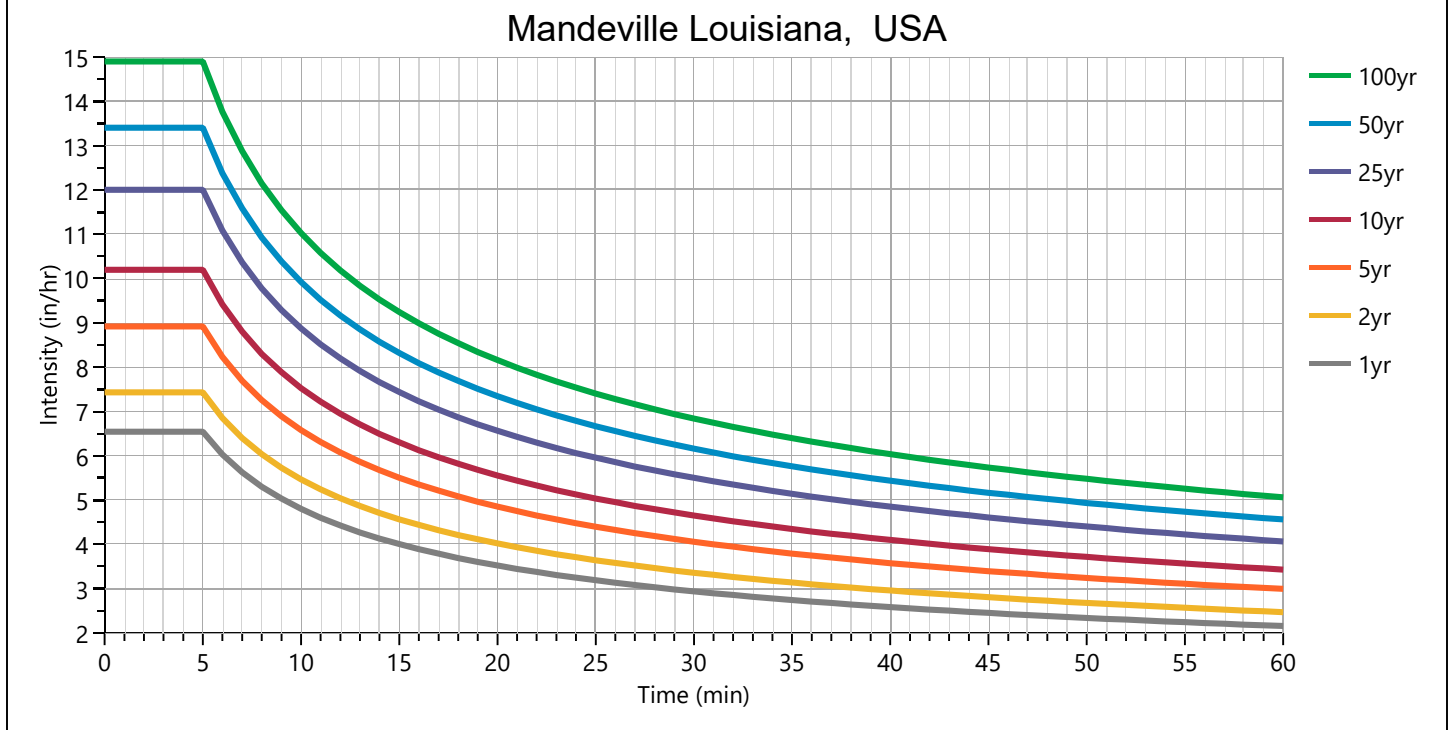
IDF Report

Equation Coefficients	Intensity = B / (Tc + D)^E (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
B	13.4114	15.1554	0.0000	18.0892	20.6554	24.1837	26.9330	29.9854	
D	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
E	0.4462	0.4429	0.0000	0.4393	0.4384	0.4354	0.4338	0.4345	

Minimum Tc = 5 minutes

Tc (min)	Intensity Values (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
Cf	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
5	6.54	7.43	0	8.92	10.20	12.00	13.40	14.90	
10	4.80	5.47	0	6.58	7.53	8.87	9.92	11.03	
15	4.01	4.57	0	5.51	6.30	7.44	8.32	9.24	
20	3.52	4.02	0	4.85	5.55	6.56	7.34	8.16	
25	3.19	3.64	0	4.40	5.04	5.95	6.67	7.40	
30	2.94	3.36	0	4.06	4.65	5.50	6.16	6.84	
35	2.74	3.14	0	3.79	4.35	5.14	5.76	6.40	
40	2.59	2.96	0	3.58	4.10	4.85	5.44	6.04	
45	2.45	2.81	0	3.40	3.89	4.61	5.17	5.74	
50	2.34	2.68	0	3.24	3.72	4.40	4.94	5.48	
55	2.24	2.57	0	3.11	3.56	4.22	4.74	5.26	
60	2.16	2.47	0	2.99	3.43	4.07	4.56	5.06	

Cf = Correction Factor applied to Rational Method runoff coefficient.



Precipitation Report

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active						✓	✓		✓
SCS Storms	> SCS Dimensionless Storms								
SCS 6hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
Type I, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type IA, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type II, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type II FL, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type III, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Synthetic Storms	> IDF-Based Synthetic Storms								
1-hr		2.16	2.47	0	2.99	3.43	4.07	4.56	5.06
2-hr		3.17	3.64	0	4.42	5.06	6.02	6.75	7.49
3-hr		3.96	4.56	0	5.54	6.36	7.56	8.50	9.42
6-hr		5.82	6.71	0	8.18	9.39	11.18	12.58	13.94
12-hr		8.54	9.87	0	12.06	13.85	16.54	18.62	20.63
24-hr	✓	12.54	14.52	0	17.79	20.45	24.46	27.58	30.53
Huff Distribution	> 1st Quartile (0 to 6 hrs)								
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
Huff Distribution	> 2nd Quartile (>6 to 12 hrs)								
8-hr		0	0	0	0	0	0	0	0
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
Huff Distribution	> 3rd Quartile (>12 to 24 hrs)								
18-hr		0	0	0	0	0	0	0	0
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Custom Storms	> Custom Storm Distributions								
My Custom Storm 1		0	0	0	0	0	0	0	0
My Custom Storm 2		0	0	0	0	0	0	0	0
My Custom Storm 3		0	0	0	0	0	0	0	0
My Custom Storm 4		0	0	0	0	0	0	0	0
My Custom Storm 5		0	0	0	0	0	0	0	0
My Custom Storm 6		0	0	0	0	0	0	0	0
My Custom Storm 7		0	0	0	0	0	0	0	0
My Custom Storm 8		0	0	0	0	0	0	0	0
My Custom Storm 9		0	0	0	0	0	0	0	0
My Custom Storm 10		0	0	0	0	0	0	0	0

Precipitation Report Cont'd

Precipitation filename: MandevilleLA.pcp

Rainfall totals in Inches

09-06-2022

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active						✓	✓		✓
Huff Indiana	> Indianapolis								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Huff Indiana	> Evansville								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Huff Indiana	> Fort Wayne								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Huff Indiana	> South Bend								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10

Precipitation Report Cont'd

Precipitation filename: MandevilleLA.pcp

Rainfall totals in Inches

09-06-2022

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active						✓	✓		✓
NRCS Storms	> NRCS Dimensionless Storms								
NRCS MSE1, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE2, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE3, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE4, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE5, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE6, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-A, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-B, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-C, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-D, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-A, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-B, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-C, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-D, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-1, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-2, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-3, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-4, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-5, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-6, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
FDOT Storms	> Florida DOT Storms								
FDOT, 1-hr		0	0	0	0	0	0	0	0
FDOT, 2-hr		0	0	0	0	0	0	0	0
FDOT, 4-hr		0	0	0	0	0	0	0	0
FDOT, 8-hr		0	0	0	0	0	0	0	0
FDOT, 24-hr		0	0	0	0	0	0	0	0
FDOT, 72-hr		0	0	0	0	0	0	0	0
SFWMD, 72-hr		0	0	0	0	0	0	0	0
Austin Storms	> Austin Frequency Storms								
Austin Zone 1, 24-hr		0	0	0	0	0	0	0	0
Austin Zone 2, 24-hr		0	0	0	0	0	0	0	0