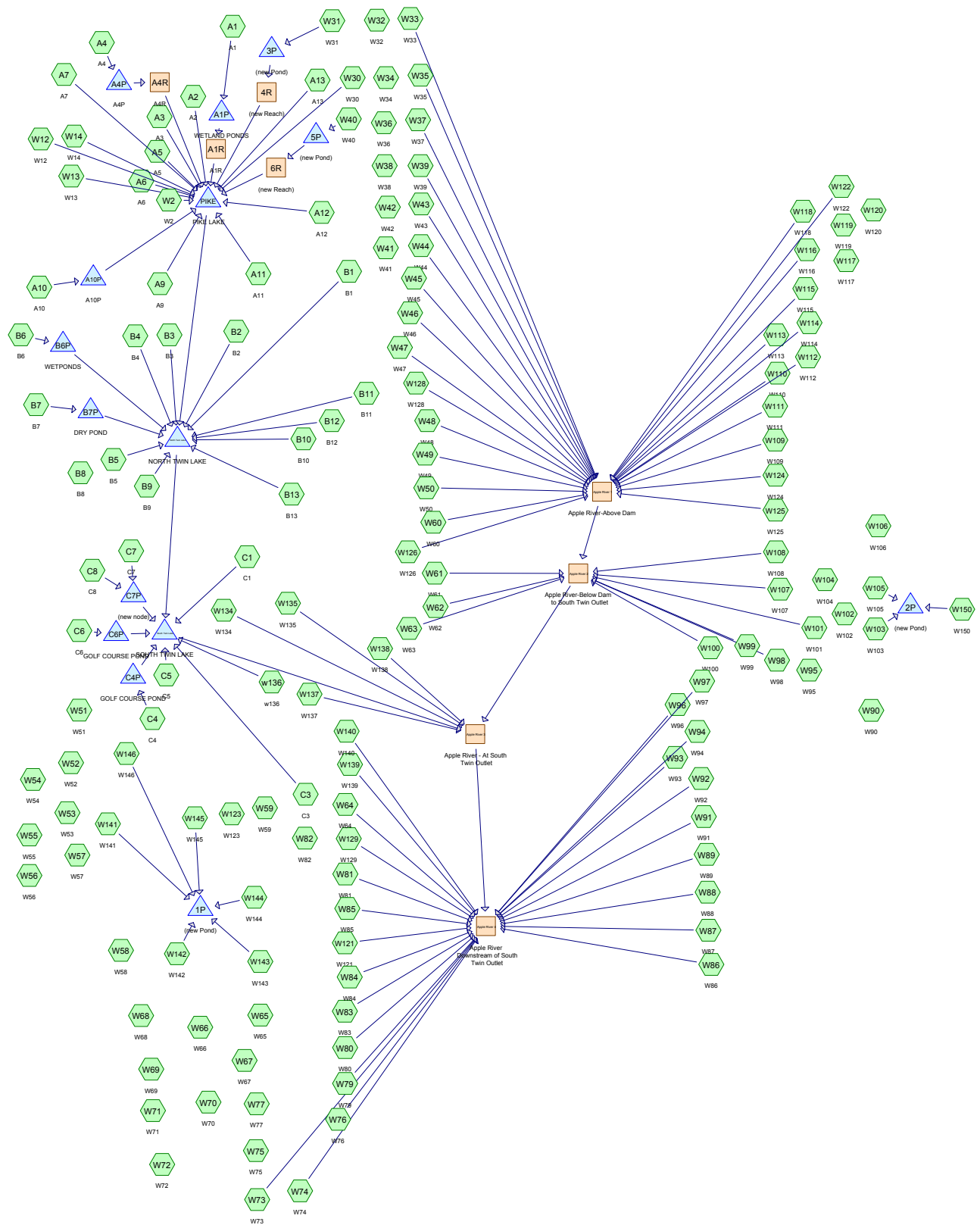


Drainage Diagram for AMERY_1207

Prepared by {enter your company name here} 2/15/2009
HydroCAD® 7.10 s/n 003637 © 2005 HydroCAD Software Solutions LLC

Subcatchment A1: A1

Runoff = 6.18 cfs @ 12.44 hrs, Volume= 1.083 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

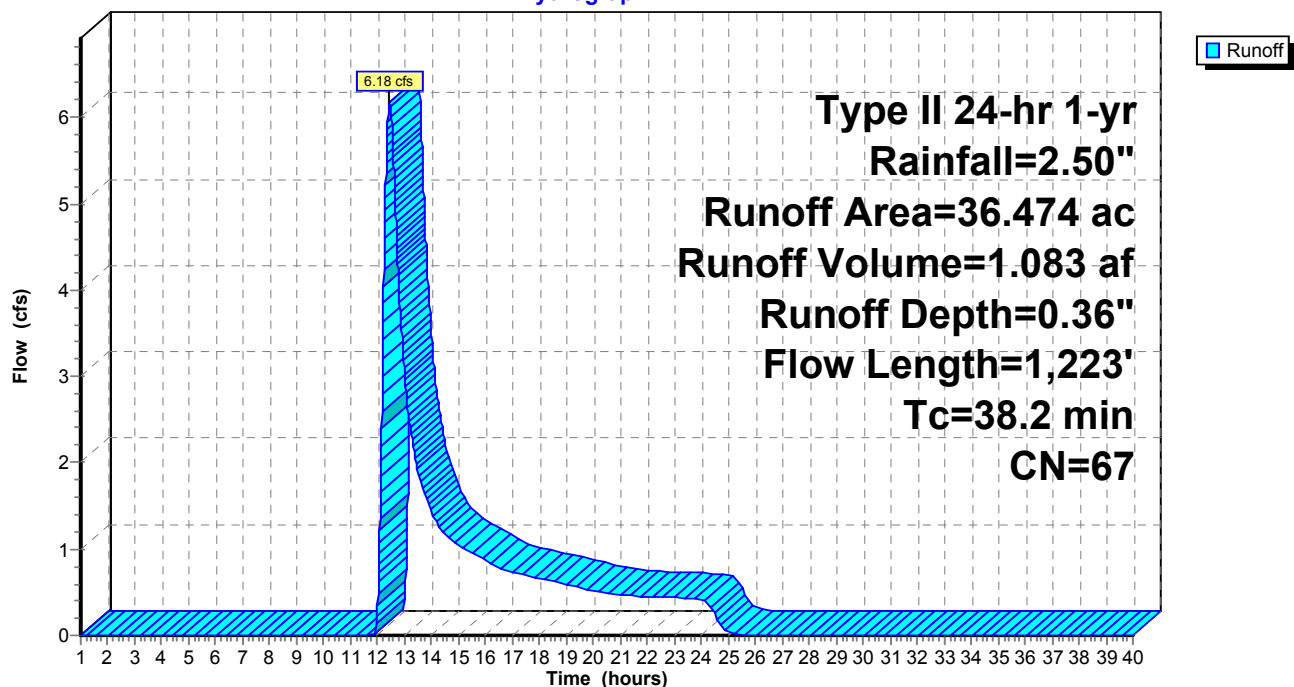
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
36.474	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	1,223	0.0200	0.5		Lag/CN Method,

Subcatchment A1: A1

Hydrograph



Subcatchment A10: A10

Runoff = 5.82 cfs @ 12.00 hrs, Volume= 0.326 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

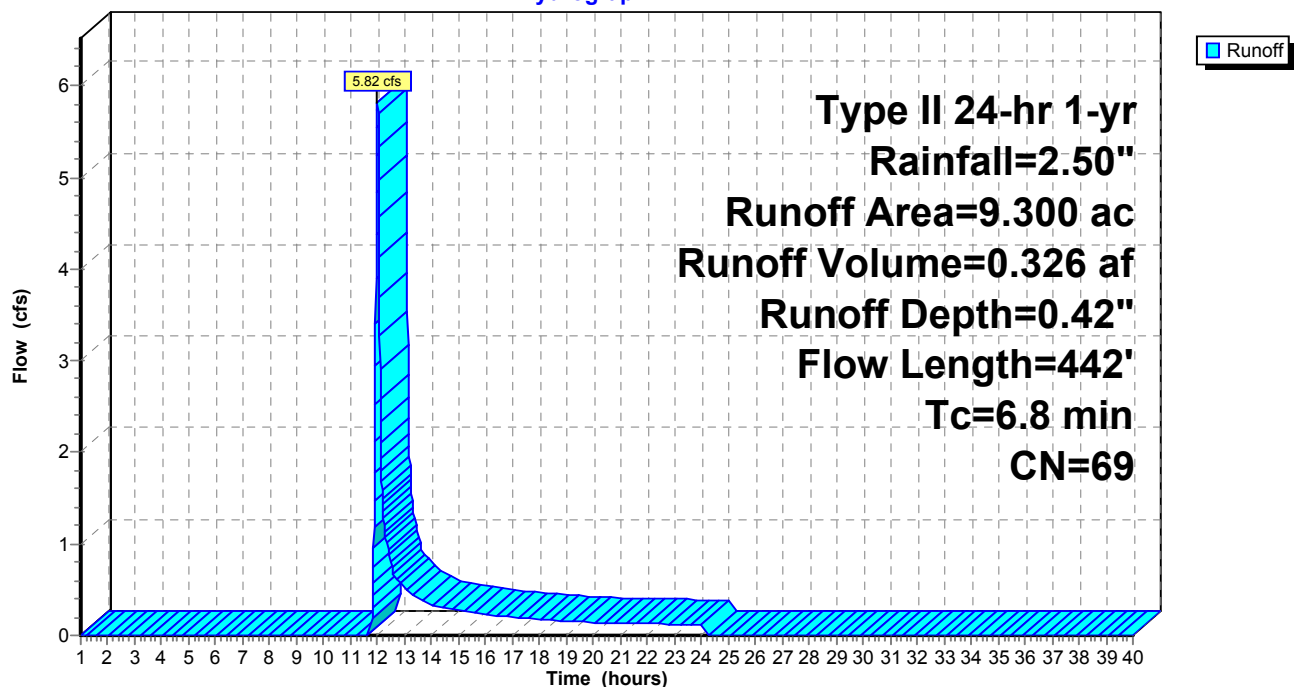
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.300	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	442	0.1100	1.1		Lag/CN Method,

Subcatchment A10: A10

Hydrograph



Subcatchment A11: A11

Runoff = 8.00 cfs @ 12.07 hrs, Volume= 0.659 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

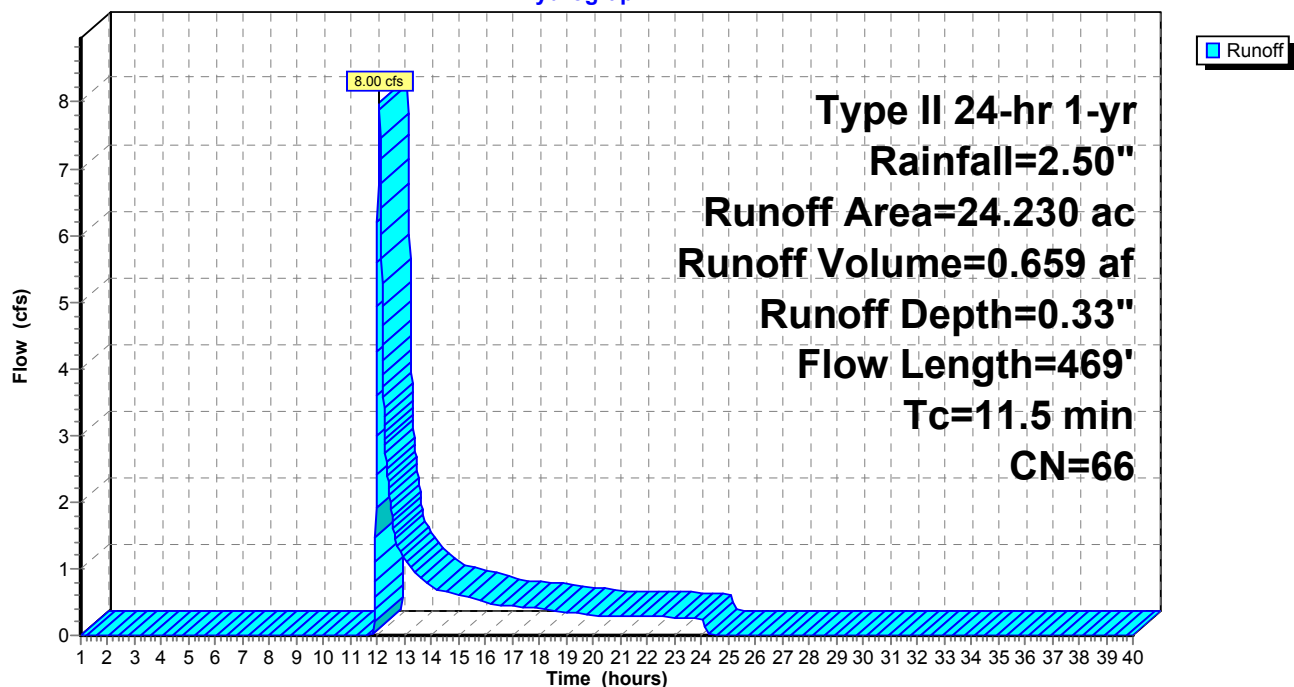
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
24.230	66	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	469	0.0500	0.7		Lag/CN Method,

Subcatchment A11: A11

Hydrograph



Subcatchment A12: A12

Runoff = 2.65 cfs @ 12.17 hrs, Volume= 0.414 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

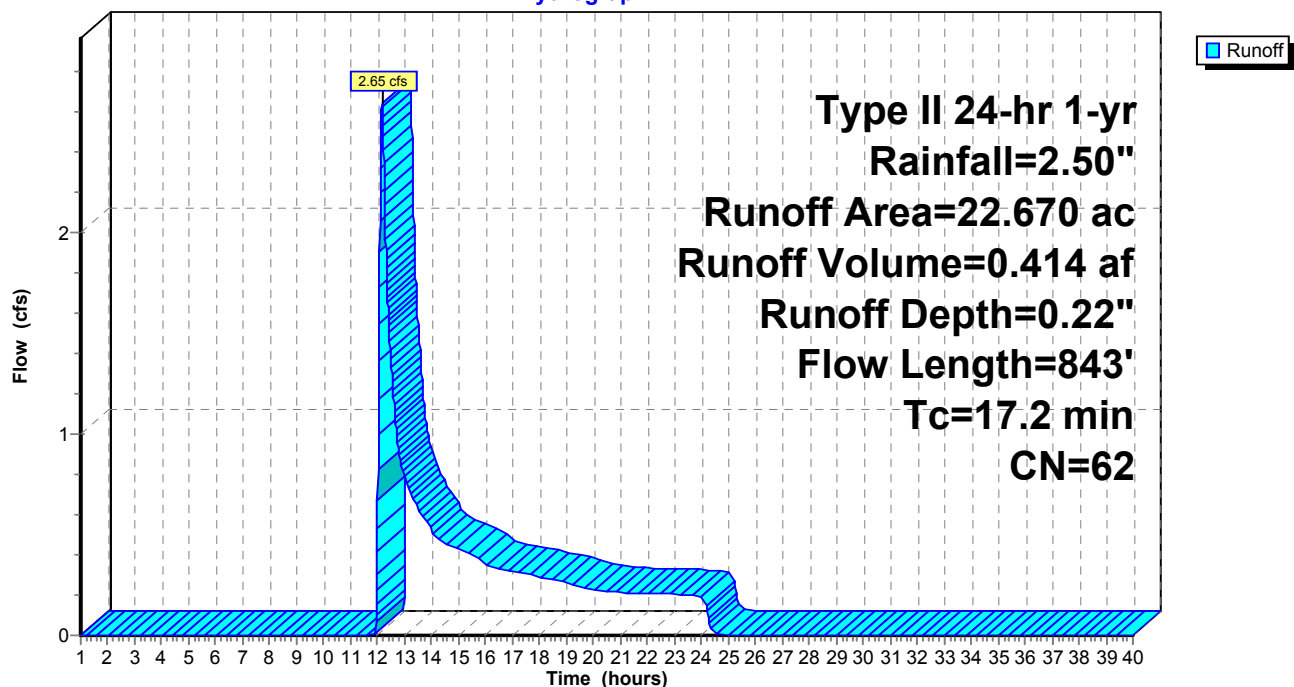
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
22.670	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	843	0.0700	0.8		Lag/CN Method,

Subcatchment A12: A12

Hydrograph



Subcatchment A13: A13

Runoff = 1.59 cfs @ 12.29 hrs, Volume= 0.401 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

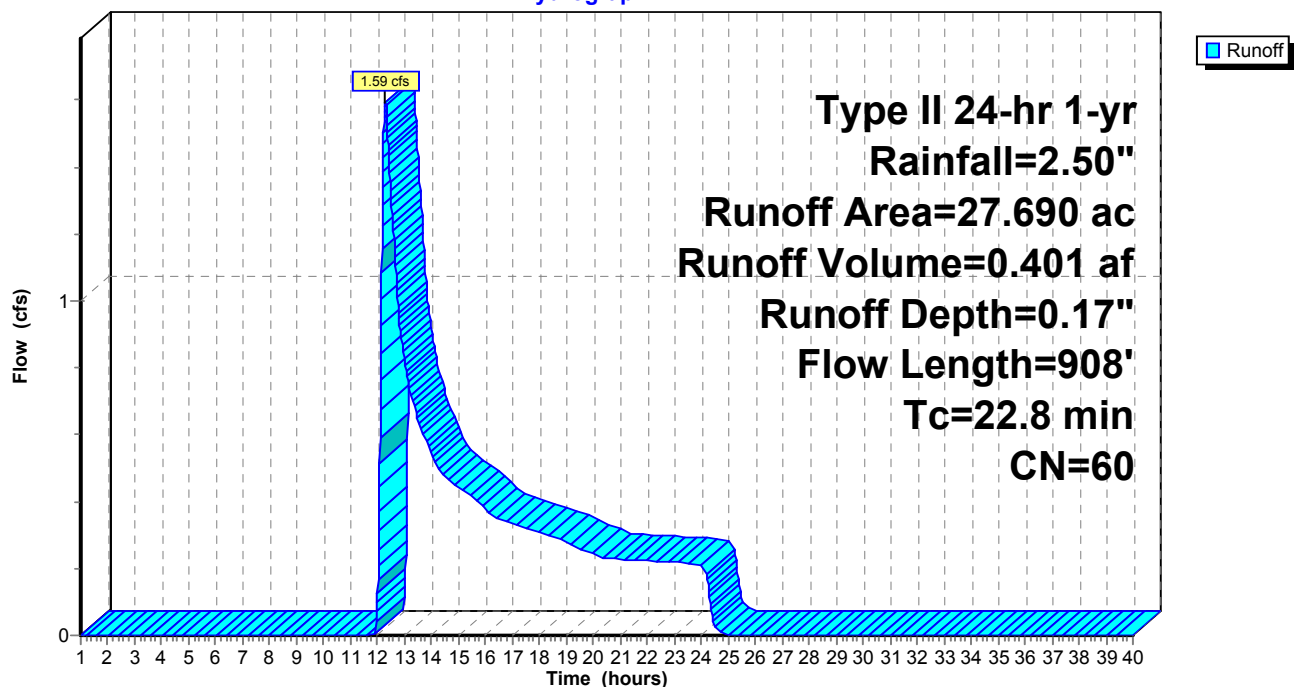
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
27.690	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	908	0.0500	0.7		Lag/CN Method,

Subcatchment A13: A13

Hydrograph



Subcatchment A2: A2

Runoff = 13.87 cfs @ 12.10 hrs, Volume= 1.262 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

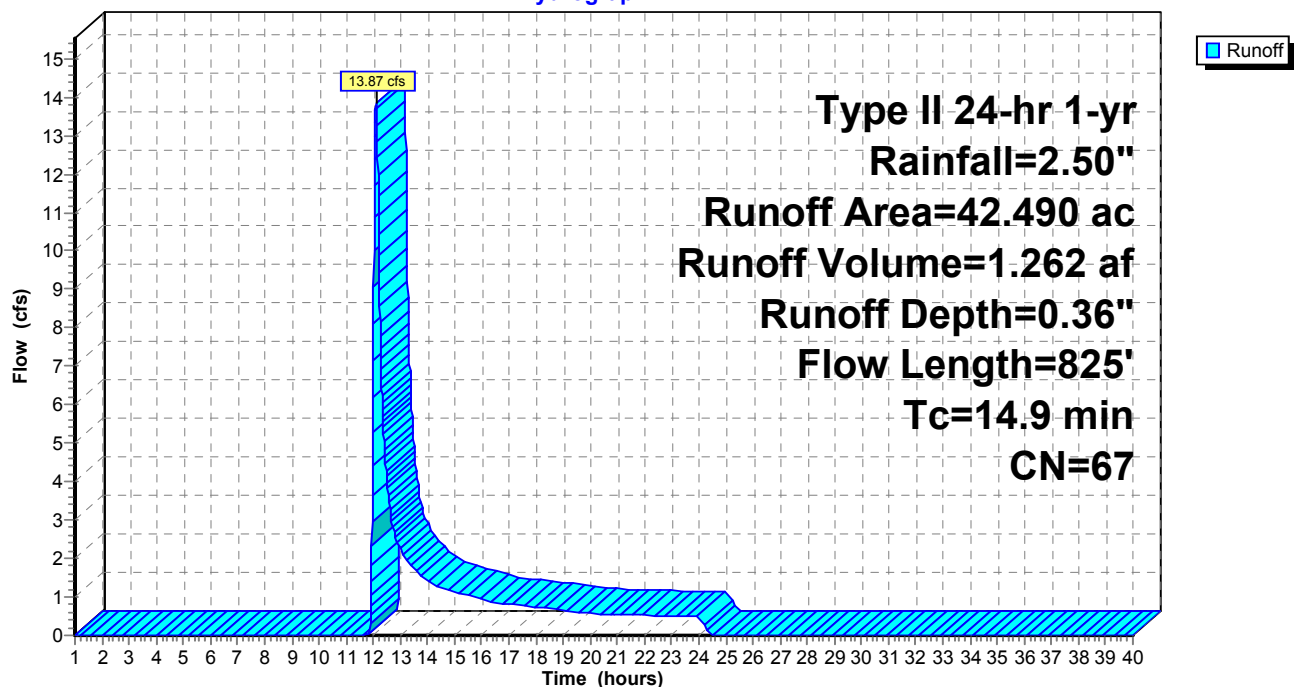
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
42.490	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	825	0.0700	0.9		Lag/CN Method,

Subcatchment A2: A2

Hydrograph



Subcatchment A3: A3

Runoff = 13.71 cfs @ 12.15 hrs, Volume= 1.216 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

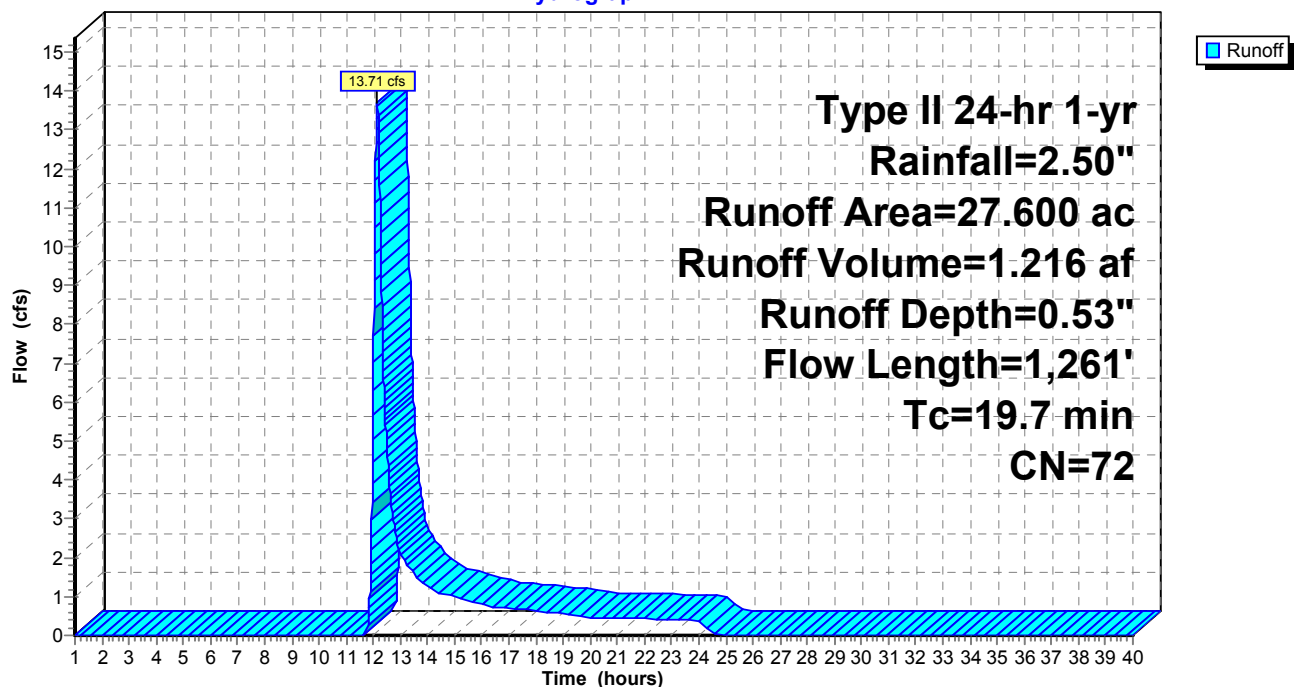
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
27.600	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	1,261	0.0600	1.1		Lag/CN Method,

Subcatchment A3: A3

Hydrograph



Subcatchment A4: A4

Runoff = 8.99 cfs @ 12.37 hrs, Volume= 1.290 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

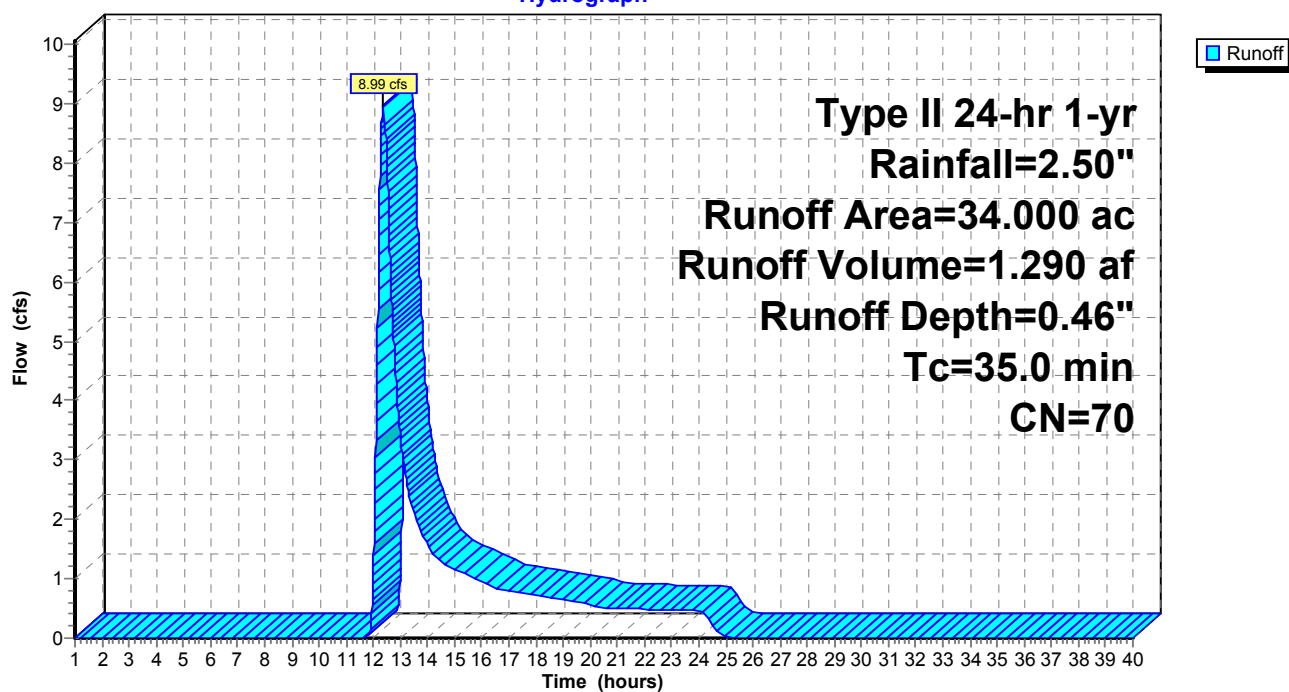
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.000	100	WATER
19.000	60	Woods, Fair, HSG B
10.000	74	Row crops, C + CR, Good, HSG B
34.000	70	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.0					Direct Entry,

Subcatchment A4: A4

Hydrograph



Subcatchment A5: A5

Runoff = 16.71 cfs @ 12.07 hrs, Volume= 1.044 af, Depth= 0.94"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

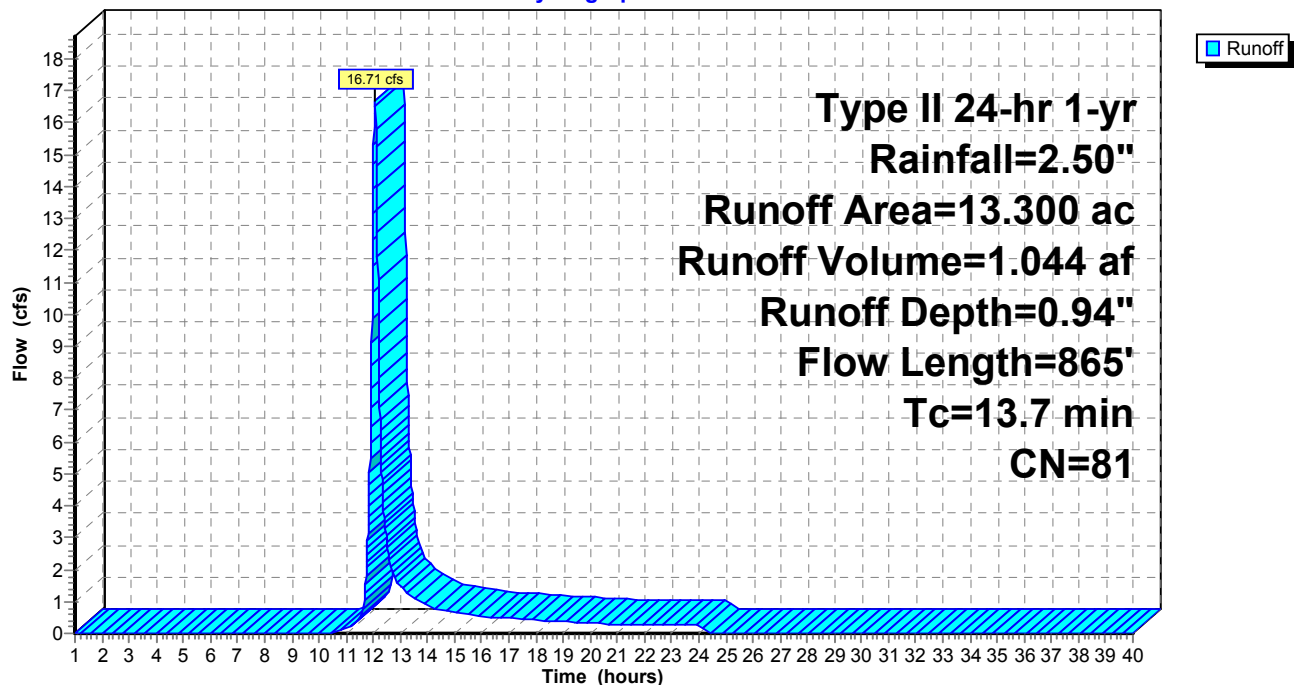
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
13.300	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	865	0.0400	1.1		Lag/CN Method,

Subcatchment A5: A5

Hydrograph



Subcatchment A6: A6

Runoff = 5.27 cfs @ 12.17 hrs, Volume= 0.561 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

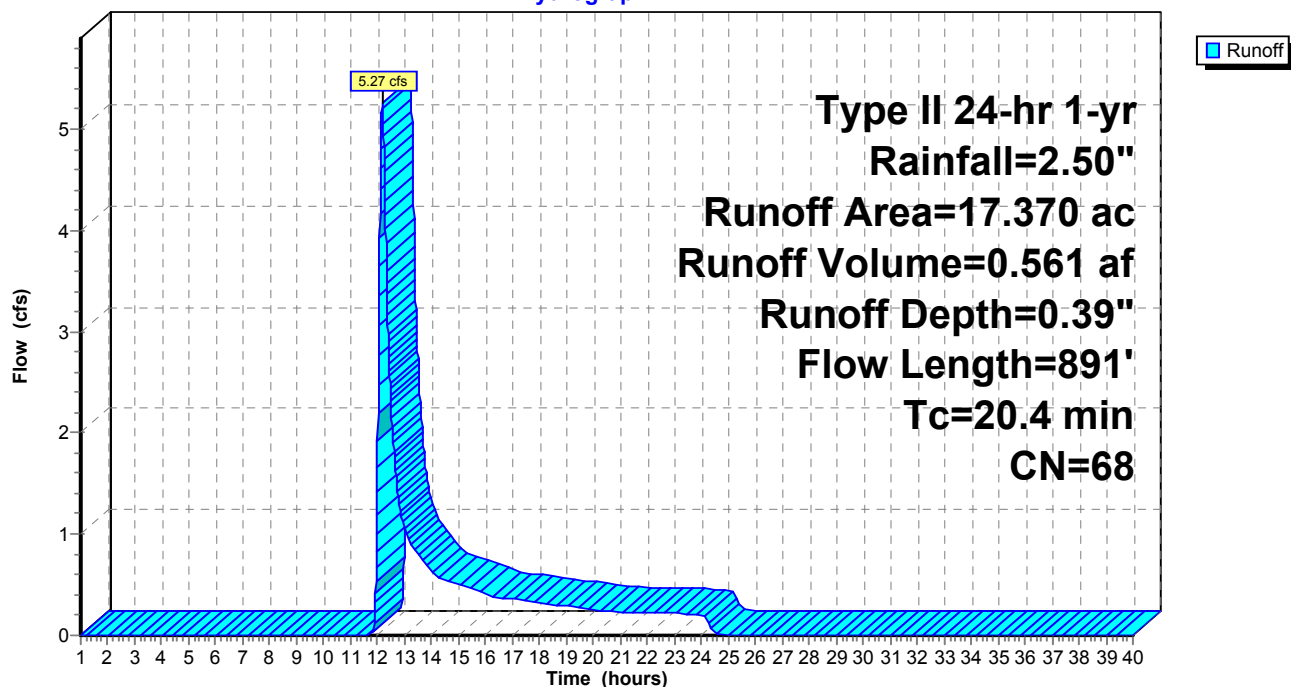
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
17.370	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	891	0.0400	0.7		Lag/CN Method,

Subcatchment A6: A6

Hydrograph



Subcatchment A7: A7

Runoff = 0.28 cfs @ 12.69 hrs, Volume= 0.150 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

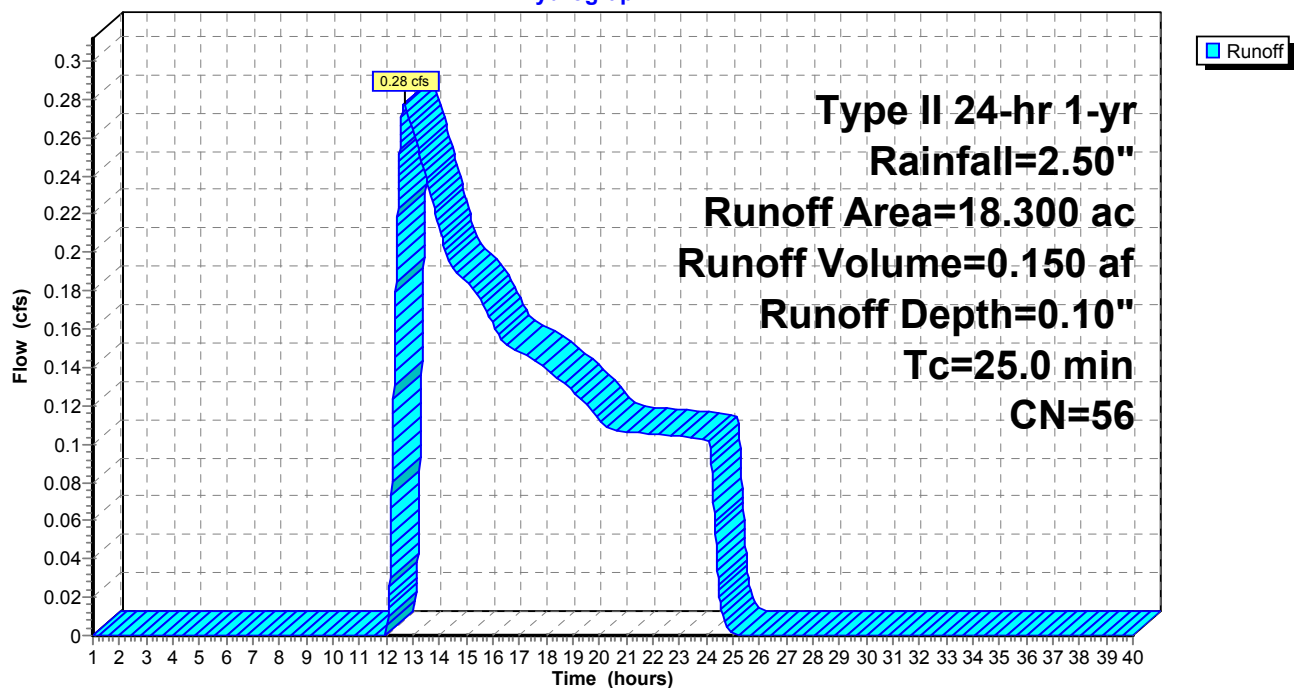
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
1.000	100	WATER
3.000	70	FARM
7.300	64	Row crops, C + CR, Good, HSG A
7.000	36	Woods, Fair, HSG A
18.300	56	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.0					Direct Entry,

Subcatchment A7: A7

Hydrograph



Subcatchment A9: A9

Runoff = 0.49 cfs @ 12.13 hrs, Volume= 0.202 af, Depth= 0.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

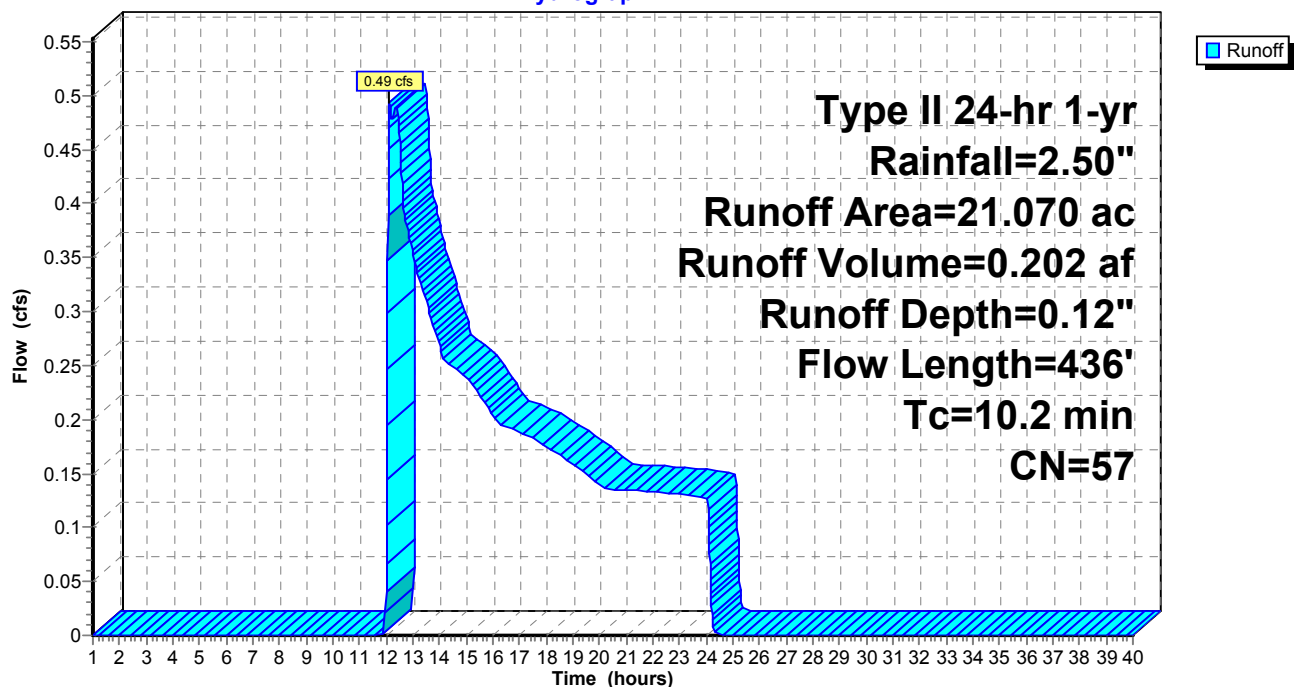
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
21.070	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	436	0.0900	0.7		Lag/CN Method,

Subcatchment A9: A9

Hydrograph



Subcatchment B1: B1

Runoff = 12.80 cfs @ 12.32 hrs, Volume= 1.582 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

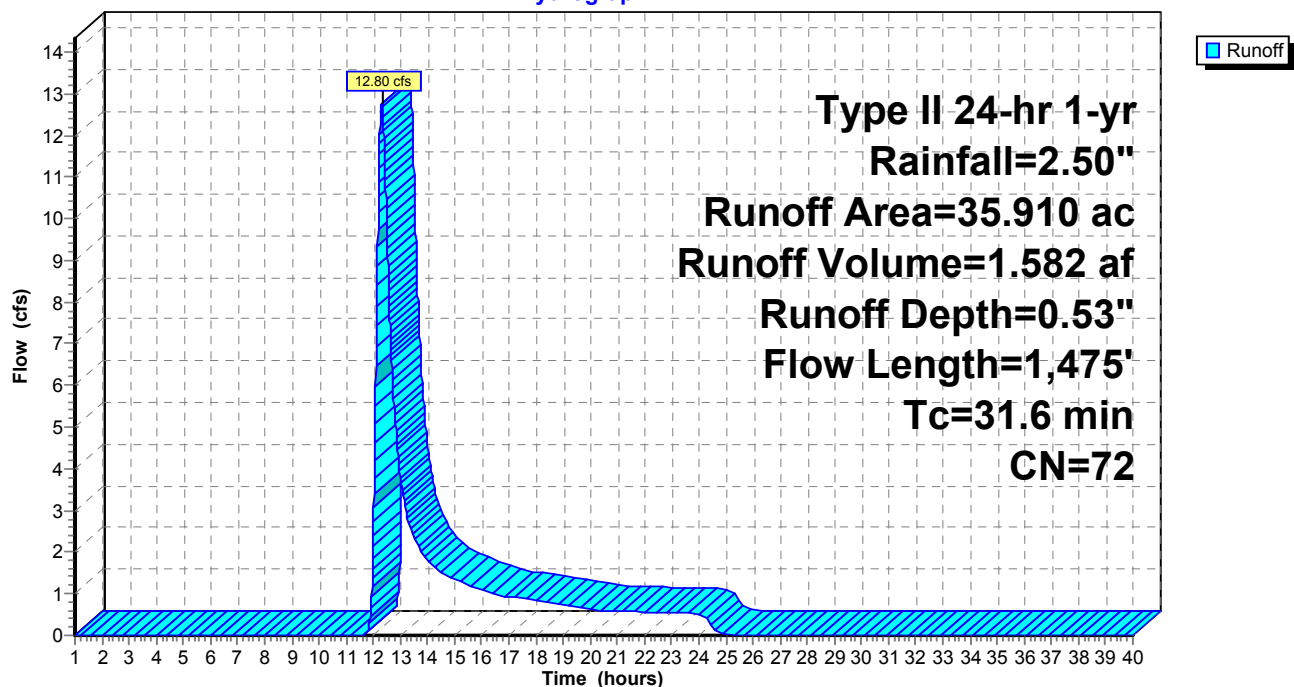
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
35.910	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.6	1,475	0.0300	0.8		Lag/CN Method,

Subcatchment B1: B1

Hydrograph



Subcatchment B10: B10

Runoff = 4.99 cfs @ 11.98 hrs, Volume= 0.248 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

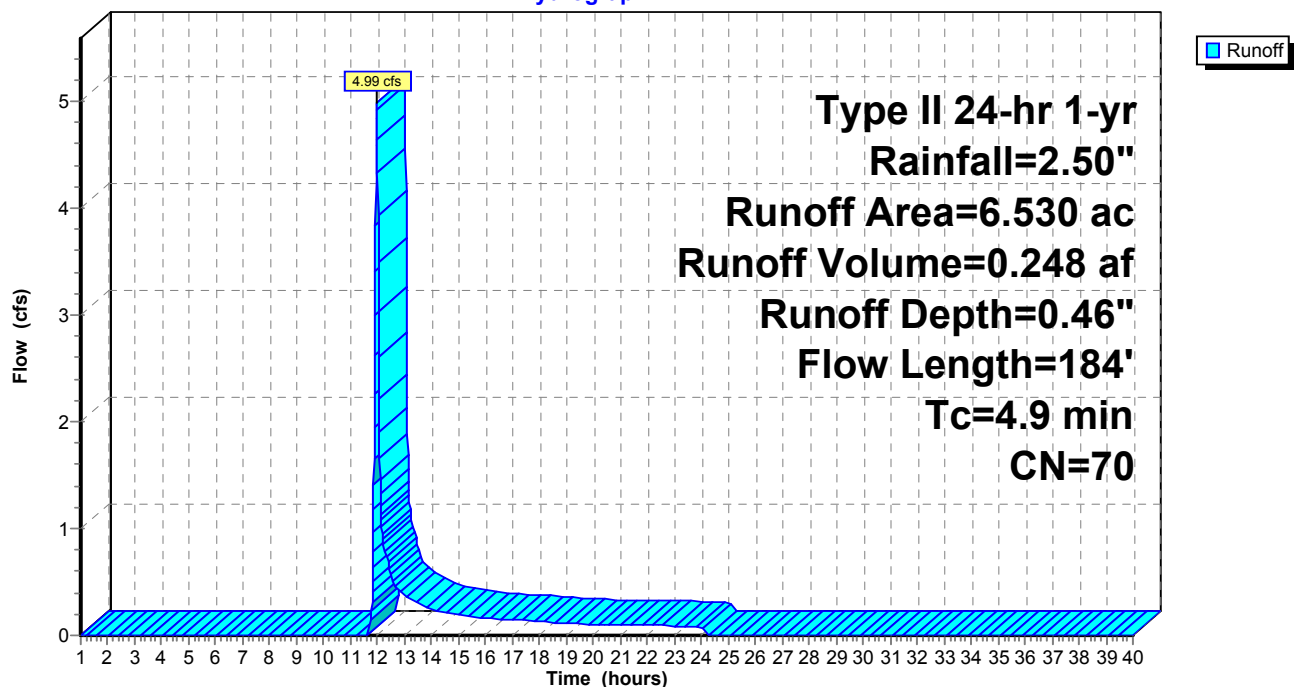
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
6.530	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	184	0.0500	0.6		Lag/CN Method,

Subcatchment B10: B10

Hydrograph



Subcatchment B11: B11

Runoff = 4.37 cfs @ 12.40 hrs, Volume= 0.565 af, Depth= 0.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

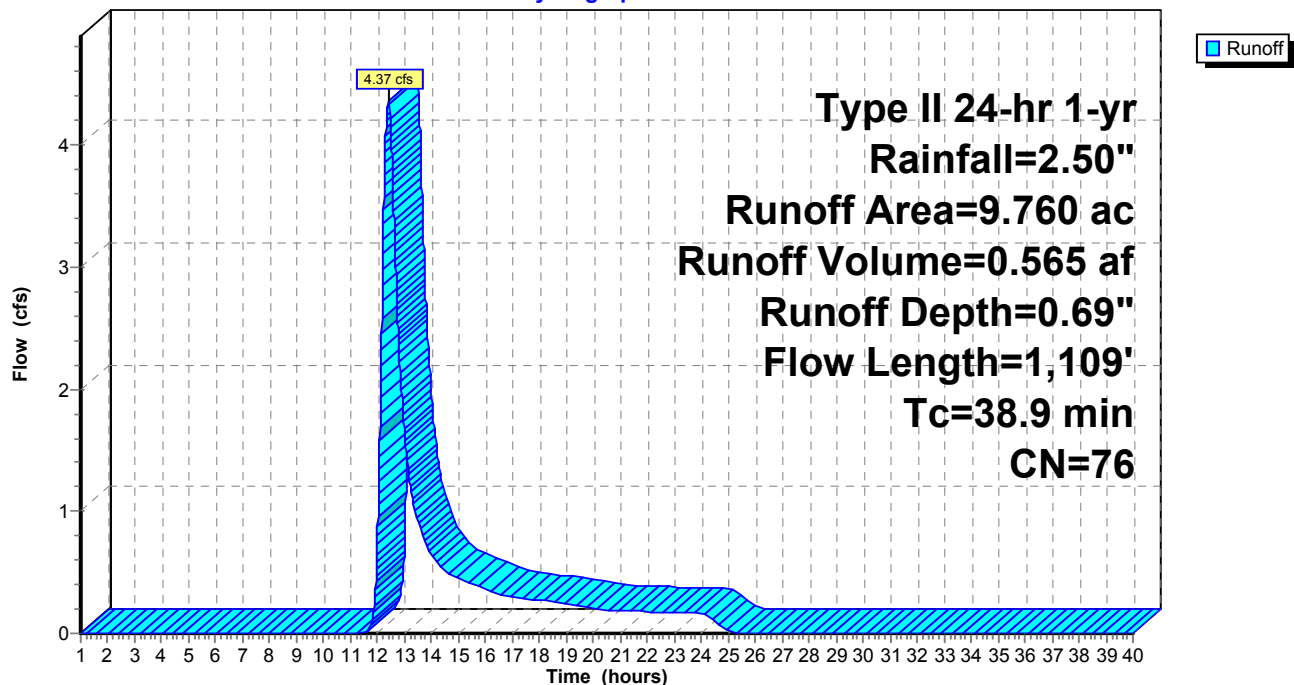
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.760	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.9	1,109	0.0100	0.5		Lag/CN Method,

Subcatchment B11: B11

Hydrograph



Subcatchment B12: B12

Runoff = 6.26 cfs @ 11.99 hrs, Volume= 0.310 af, Depth= 1.18"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

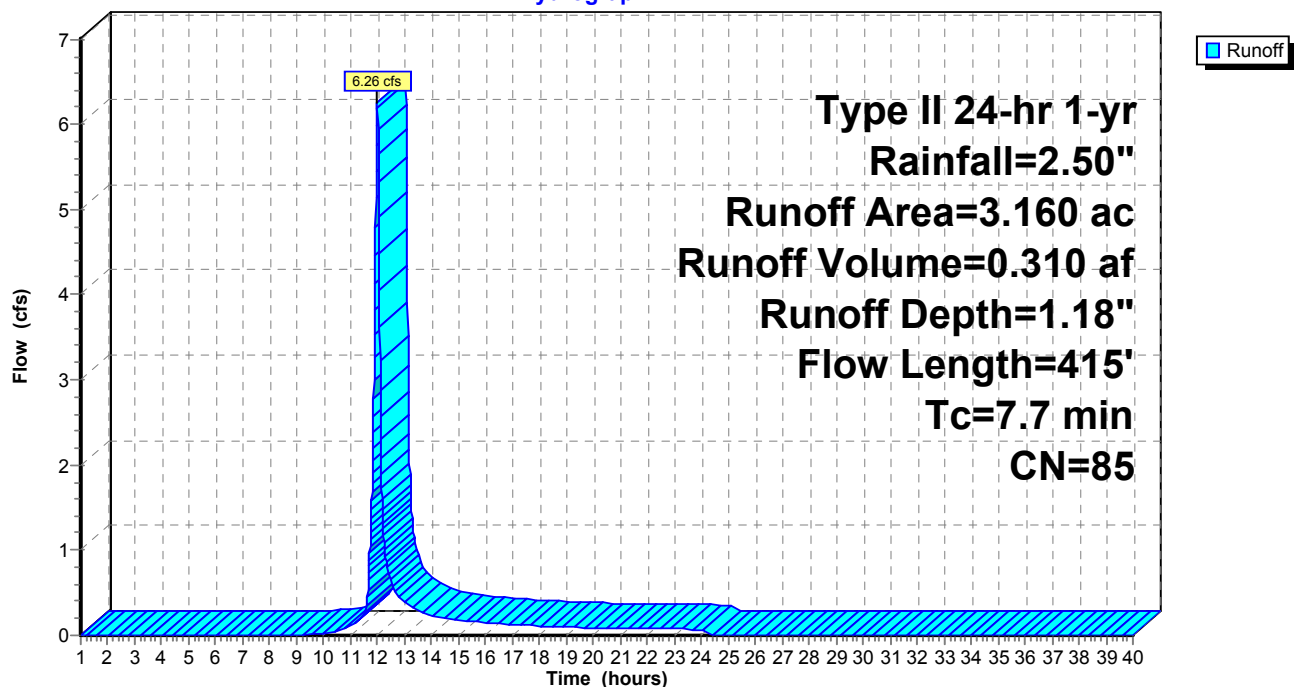
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
3.160	85	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	415	0.0300	0.9		Lag/CN Method,

Subcatchment B12: B12

Hydrograph



Subcatchment B13: B13

Runoff = 4.29 cfs @ 12.02 hrs, Volume= 0.277 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

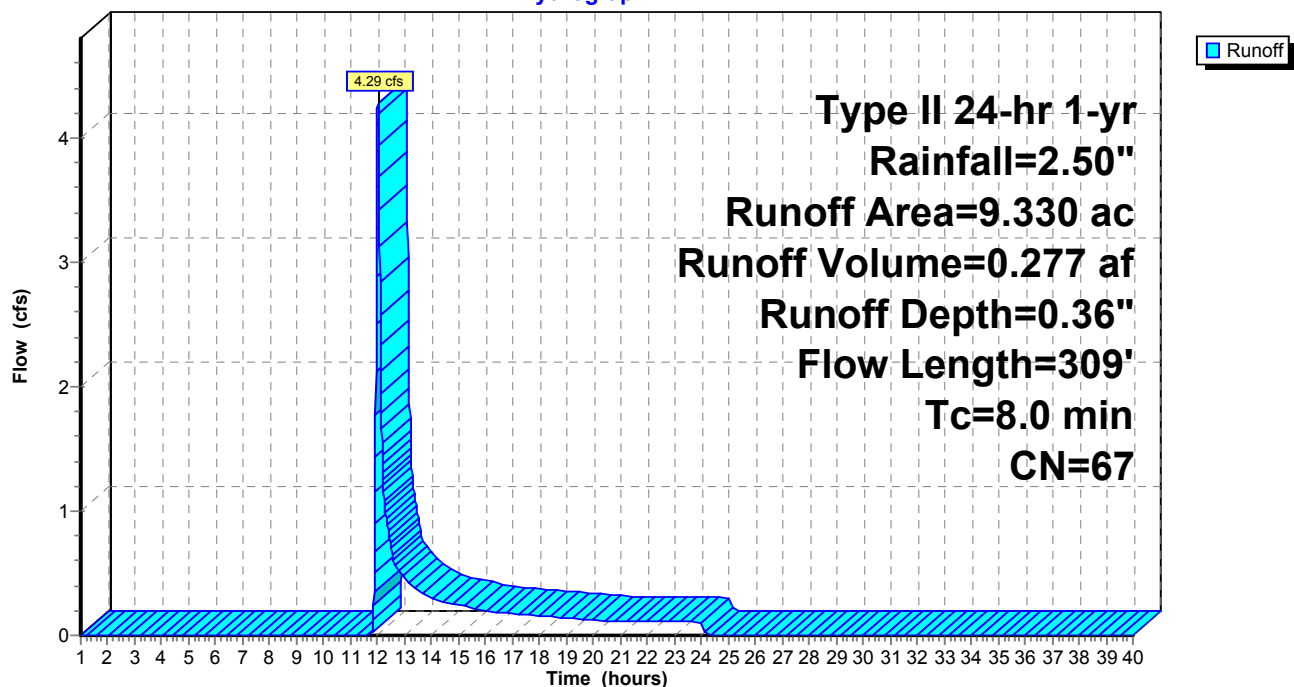
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.330	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	309	0.0500	0.6		Lag/CN Method,

Subcatchment B13: B13

Hydrograph



Subcatchment B2: B2

Runoff = 2.20 cfs @ 12.04 hrs, Volume= 0.215 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

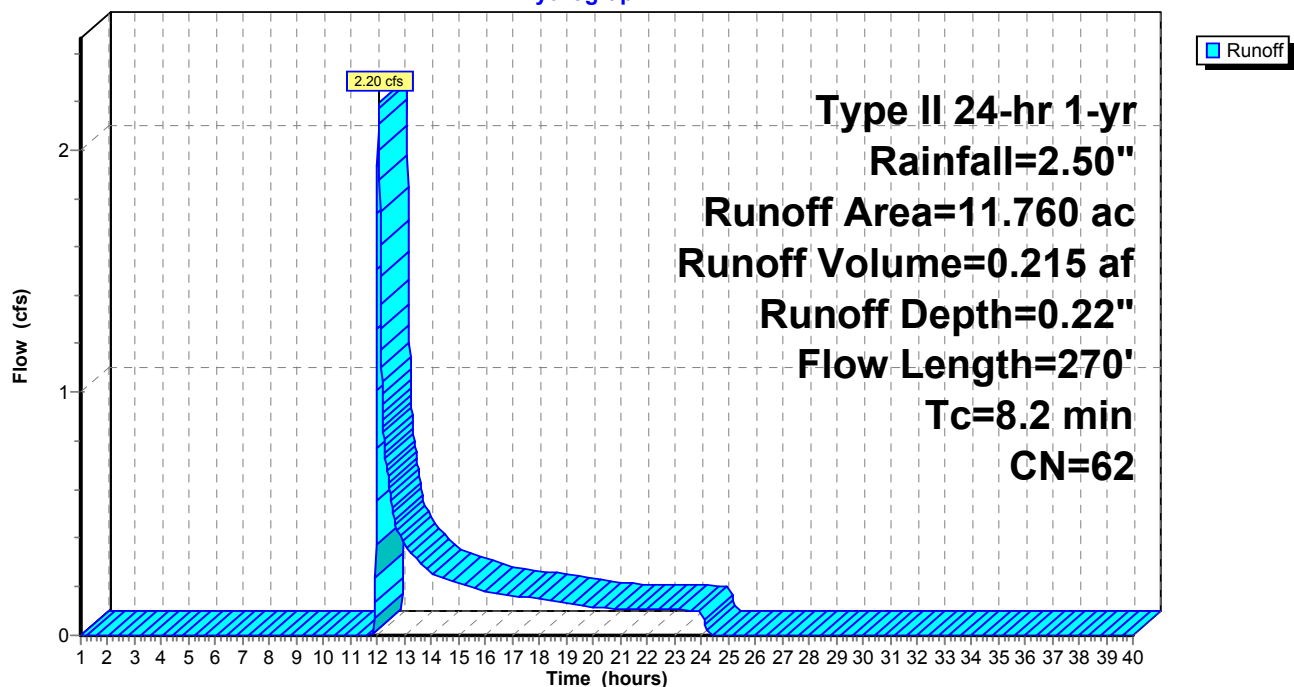
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description			
11.760	62				

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	270	0.0500	0.5		Lag/CN Method,

Subcatchment B2: B2

Hydrograph



Subcatchment B3: B3

Runoff = 7.49 cfs @ 11.96 hrs, Volume= 0.347 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

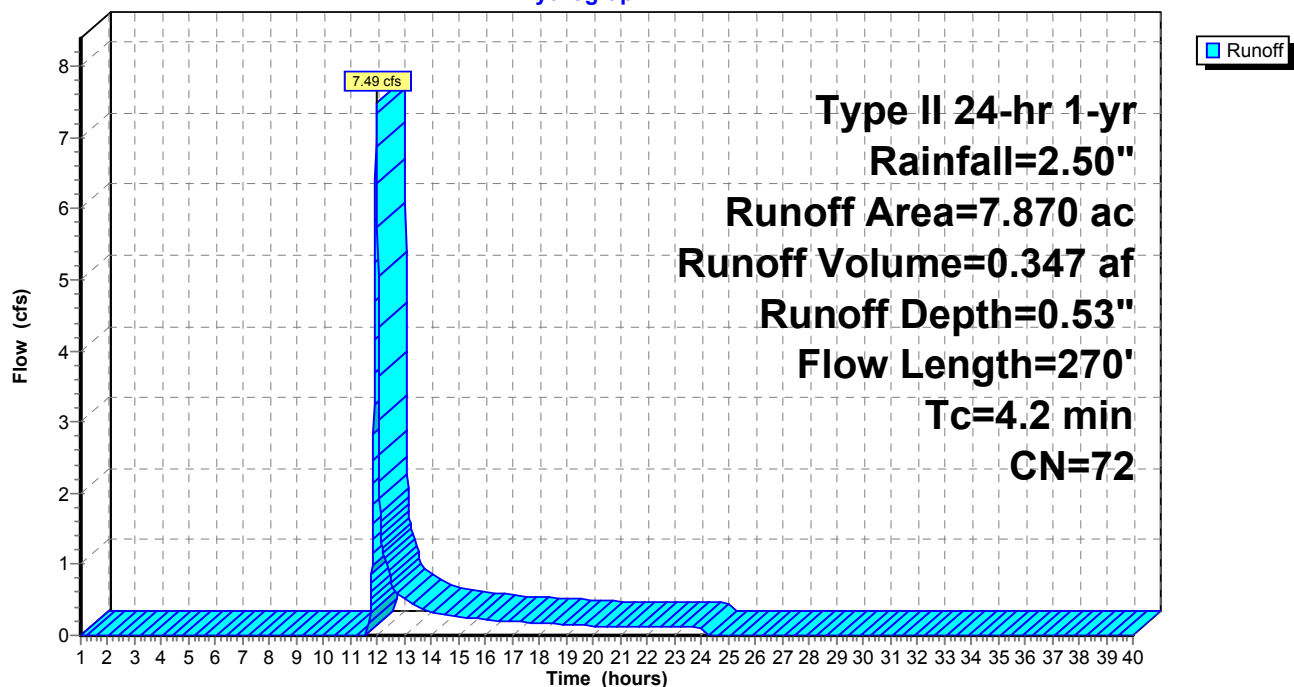
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.870	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	270	0.1100	1.1		Lag/CN Method,

Subcatchment B3: B3

Hydrograph



Subcatchment B4: B4

Runoff = 0.54 cfs @ 12.46 hrs, Volume= 0.130 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

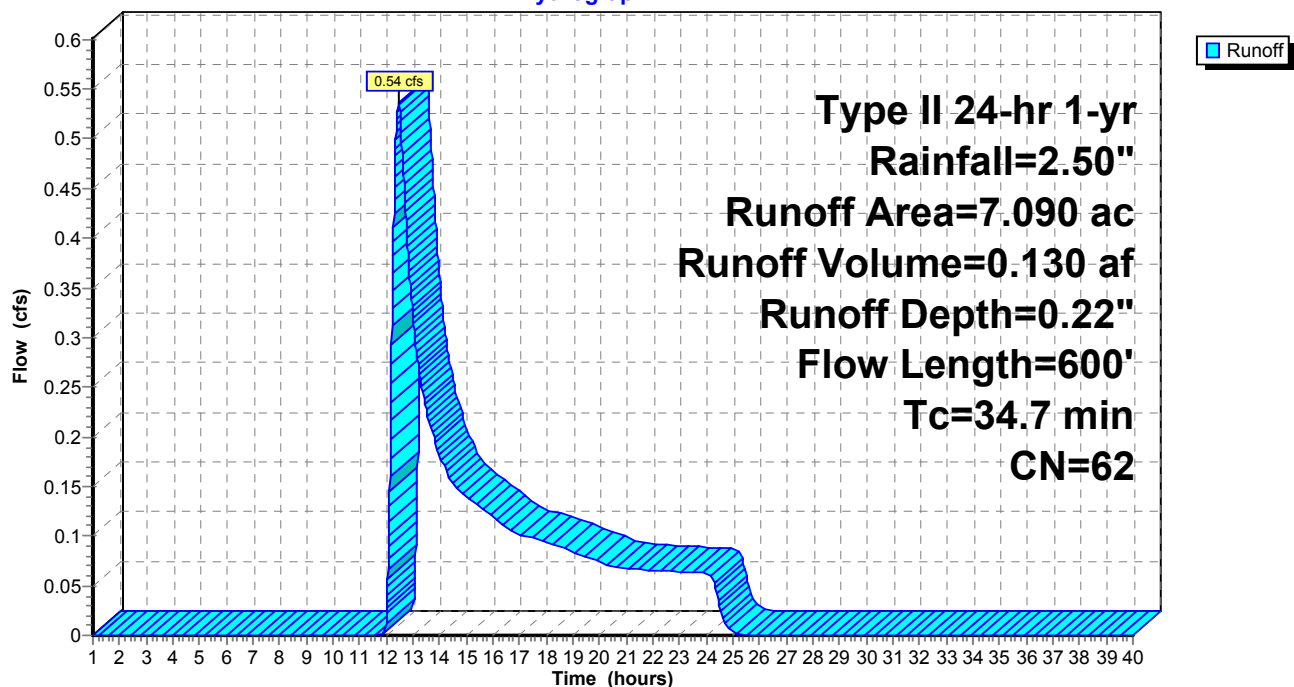
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.090	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.7	600	0.0100	0.3		Lag/CN Method,

Subcatchment B4: B4

Hydrograph



Subcatchment B5: B5

Runoff = 16.25 cfs @ 12.05 hrs, Volume= 1.063 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

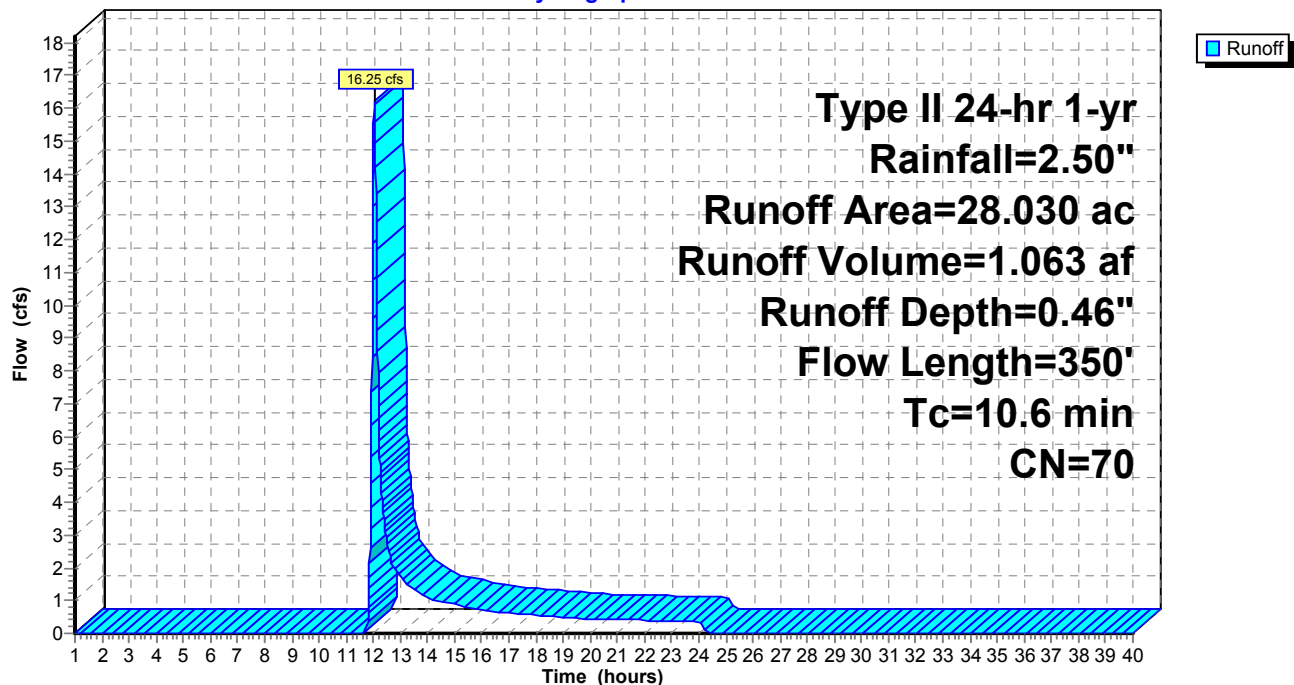
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
28.030	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	350	0.0300	0.6		Lag/CN Method,

Subcatchment B5: B5

Hydrograph



Subcatchment B6: B6

Runoff = 7.99 cfs @ 12.03 hrs, Volume= 0.519 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

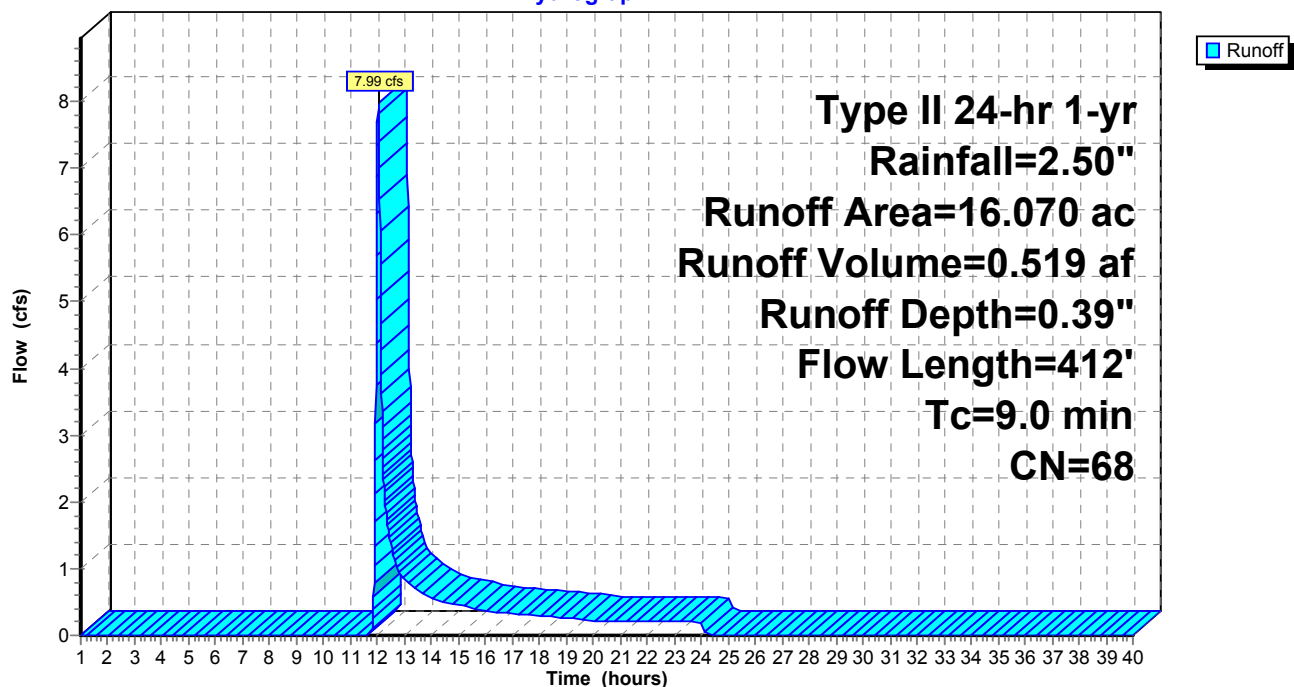
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
16.070	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	412	0.0600	0.8		Lag/CN Method,

Subcatchment B6: B6

Hydrograph



Subcatchment B7: B7

Runoff = 1.69 cfs @ 12.46 hrs, Volume= 0.346 af, Depth= 0.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

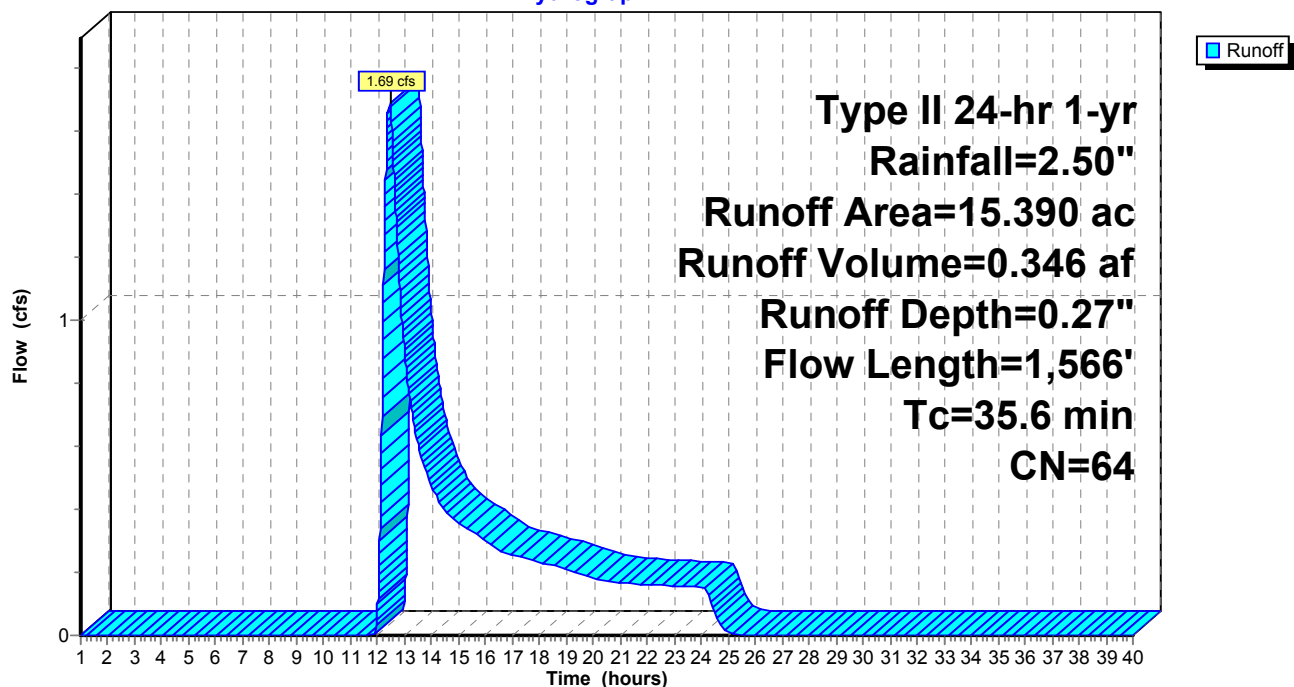
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
15.390	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.6	1,566	0.0400	0.7		Lag/CN Method,

Subcatchment B7: B7

Hydrograph



Subcatchment B8: B8

Runoff = 4.67 cfs @ 12.08 hrs, Volume= 0.333 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

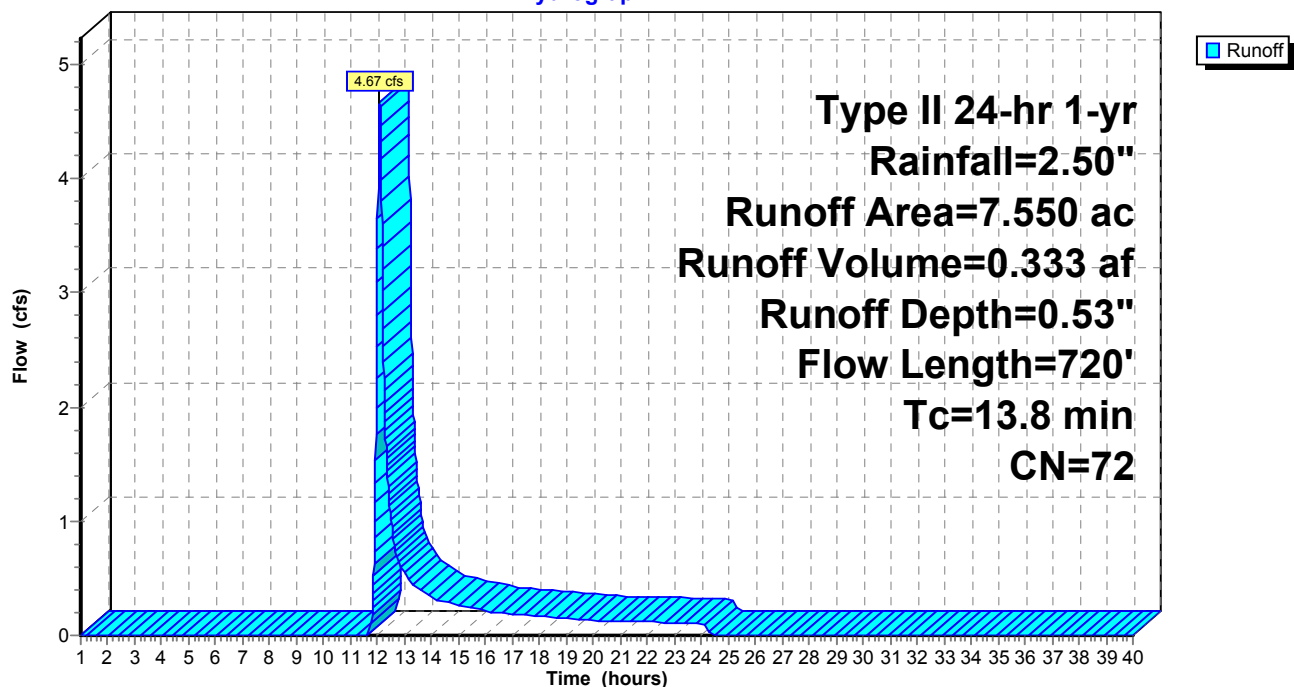
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.550	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	720	0.0500	0.9		Lag/CN Method,

Subcatchment B8: B8

Hydrograph



Subcatchment B9: B9

Runoff = 4.16 cfs @ 12.25 hrs, Volume= 0.549 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

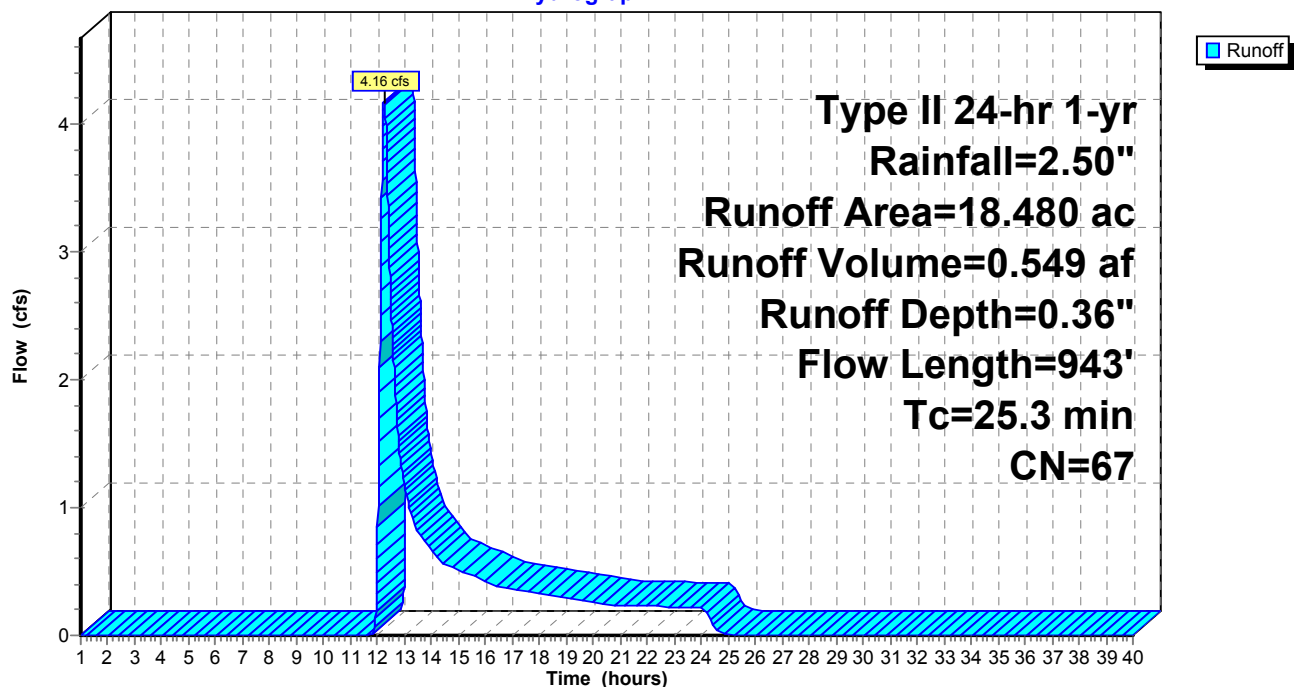
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.480	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	943	0.0300	0.6		Lag/CN Method,

Subcatchment B9: B9

Hydrograph



Subcatchment C1: C1

Runoff = 10.06 cfs @ 12.12 hrs, Volume= 0.783 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

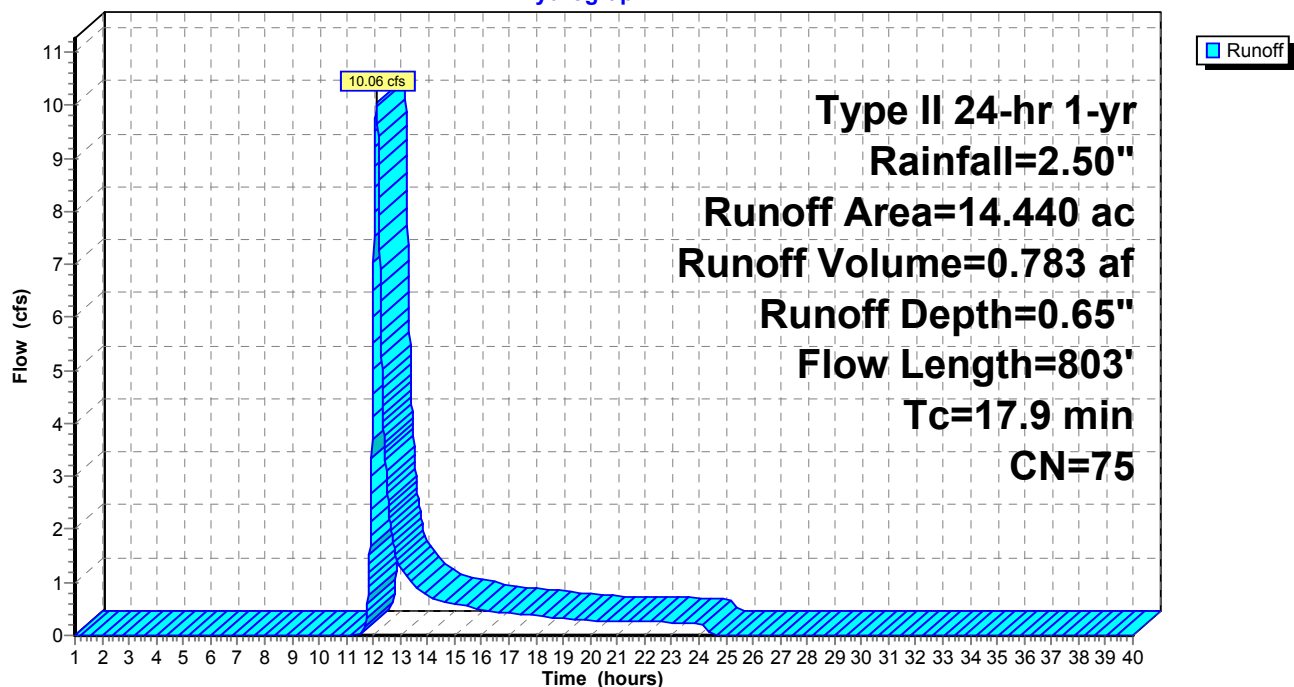
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
14.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.9	803	0.0300	0.7		Lag/CN Method,

Subcatchment C1: C1

Hydrograph



Subcatchment C3: C3

Runoff = 13.90 cfs @ 13.07 hrs, Volume= 3.048 af, Depth= 0.84"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

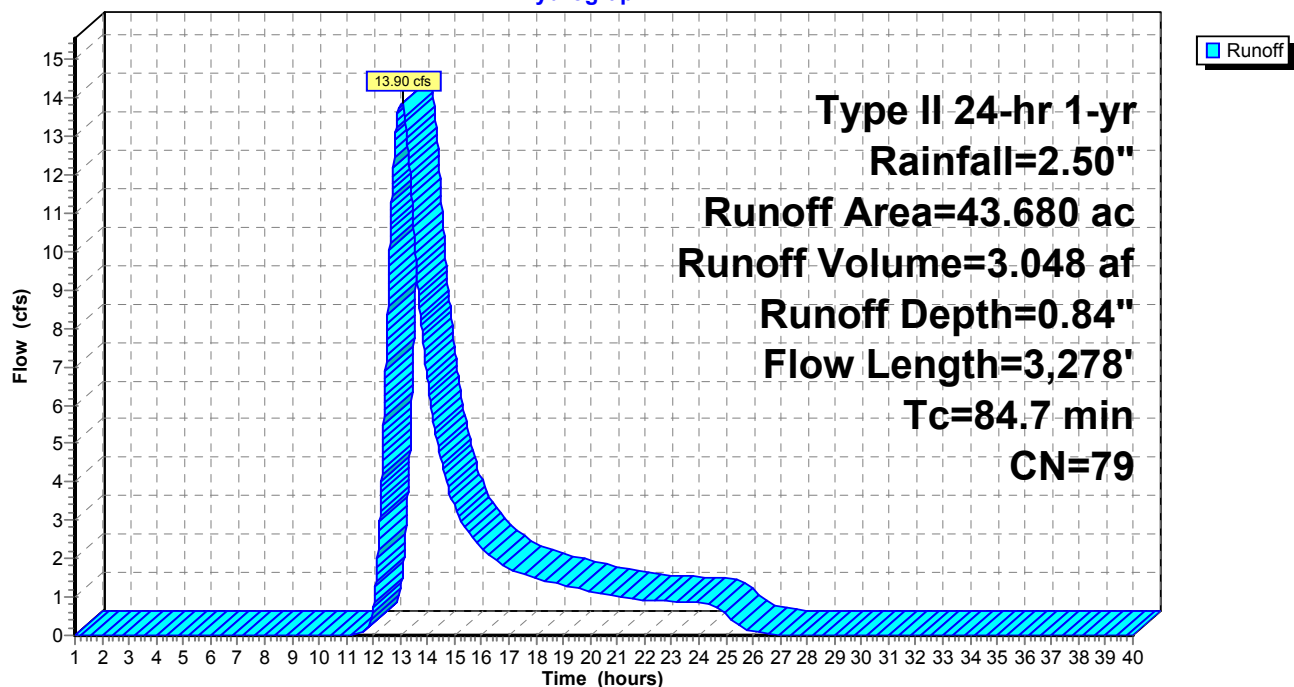
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
43.680	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
84.7	3,278	0.0100	0.6		Lag/CN Method,

Subcatchment C3: C3

Hydrograph



Subcatchment C4: C4

Runoff = 6.58 cfs @ 12.00 hrs, Volume= 0.452 af, Depth= 0.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

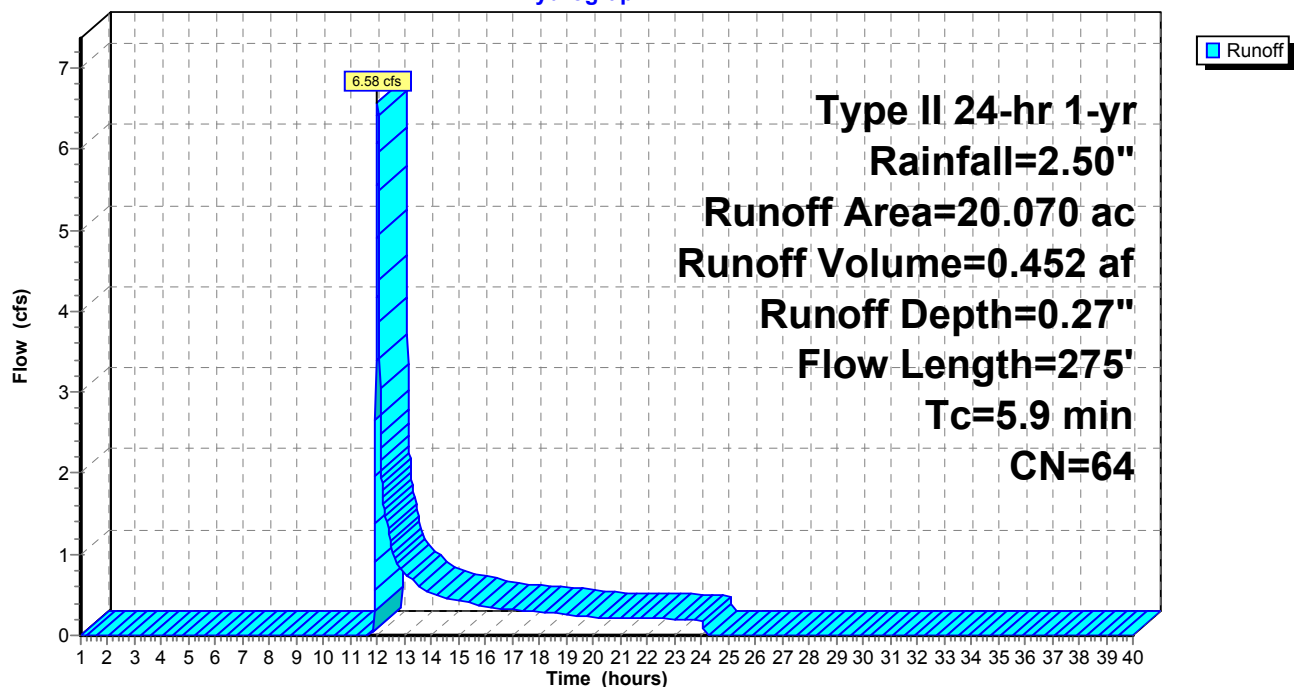
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
20.070	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	275	0.0900	0.8		Lag/CN Method,

Subcatchment C4: C4

Hydrograph



Subcatchment C5: C5

Runoff = 4.82 cfs @ 12.24 hrs, Volume= 0.543 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

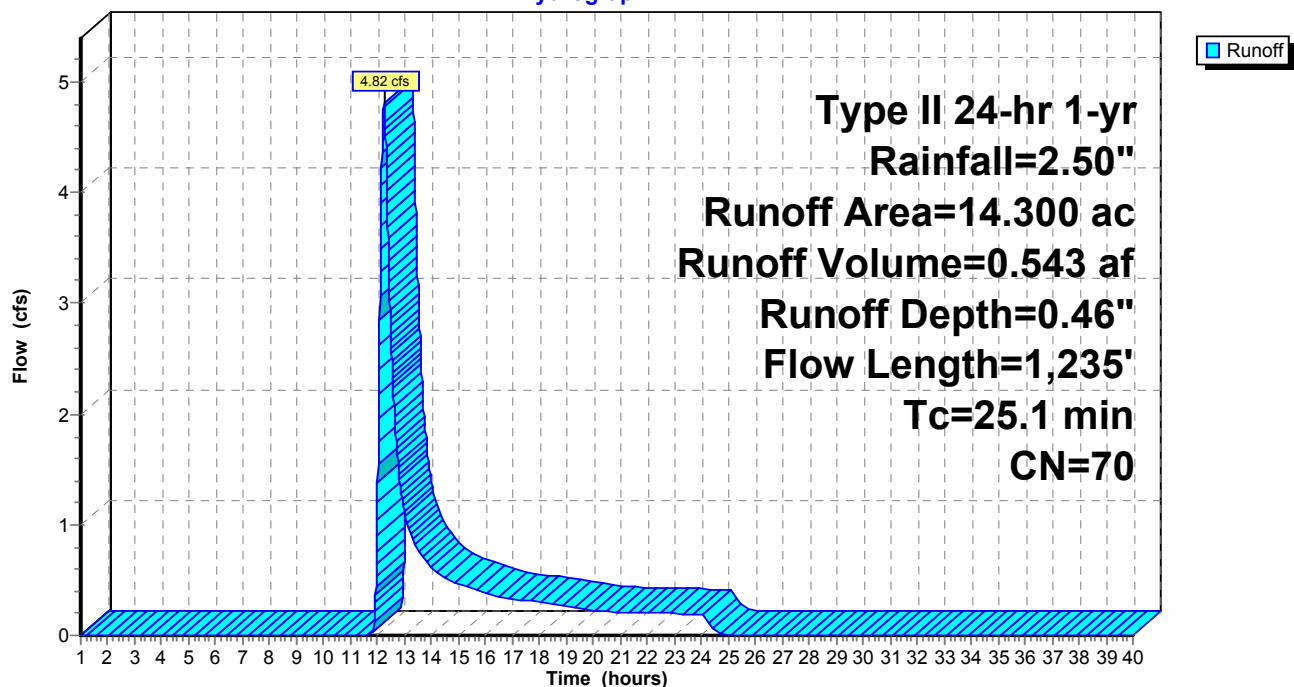
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
14.300	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,235	0.0400	0.8		Lag/CN Method,

Subcatchment C5: C5

Hydrograph



Subcatchment C6: C6

Runoff = 8.50 cfs @ 11.98 hrs, Volume= 0.456 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

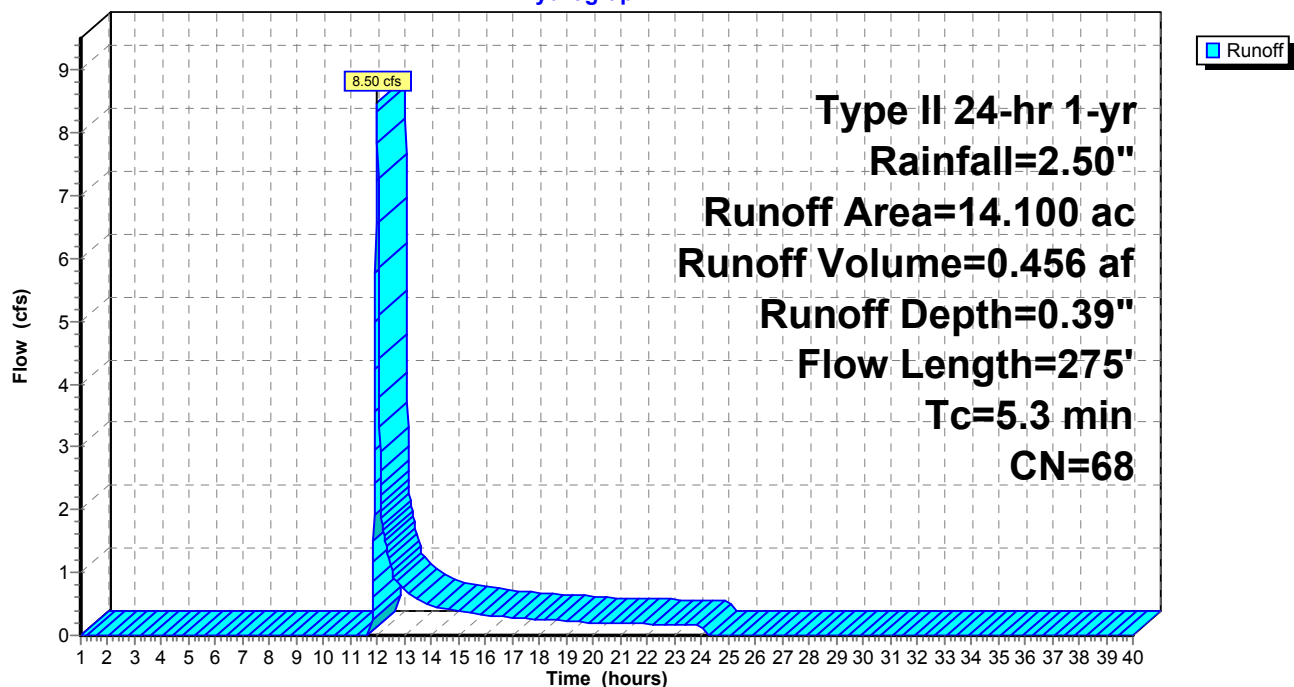
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
14.100	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	275	0.0900	0.9		Lag/CN Method,

Subcatchment C6: C6

Hydrograph



Subcatchment C7: C7

Runoff = 8.67 cfs @ 11.97 hrs, Volume= 0.412 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

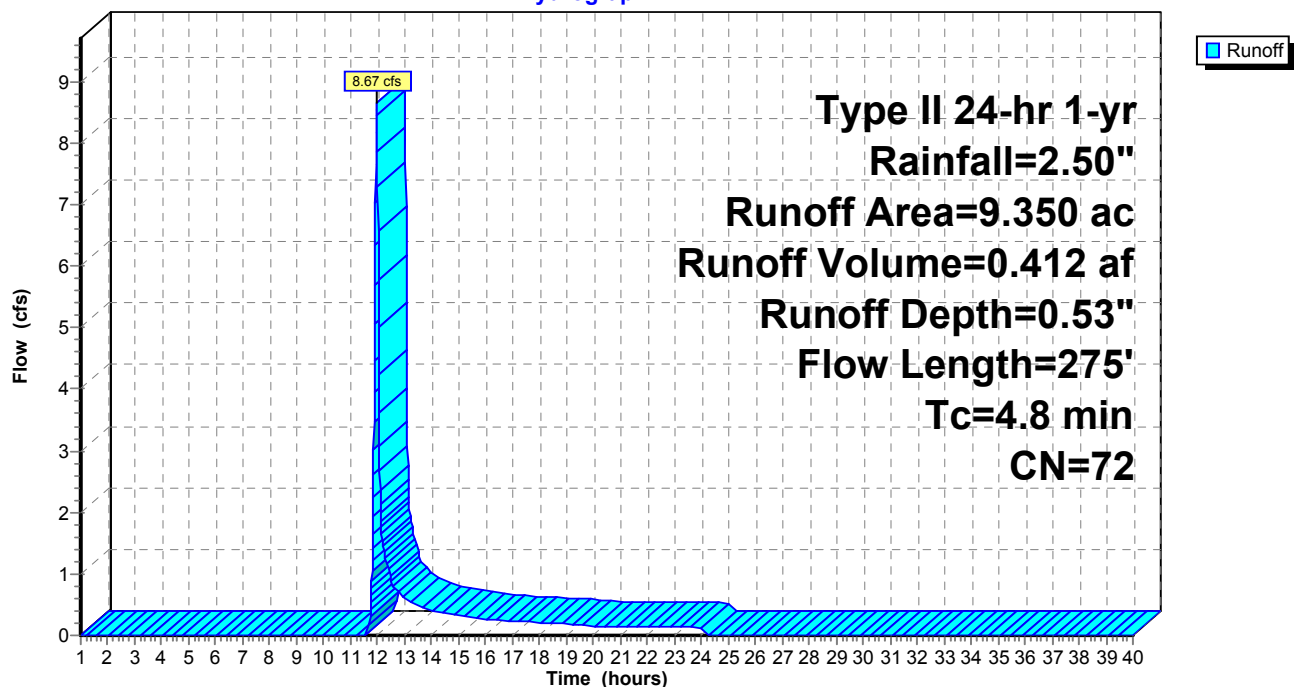
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.350	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	275	0.0900	1.0		Lag/CN Method,

Subcatchment C7: C7

Hydrograph



Subcatchment C8: C8

Runoff = 7.06 cfs @ 11.94 hrs, Volume= 0.295 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

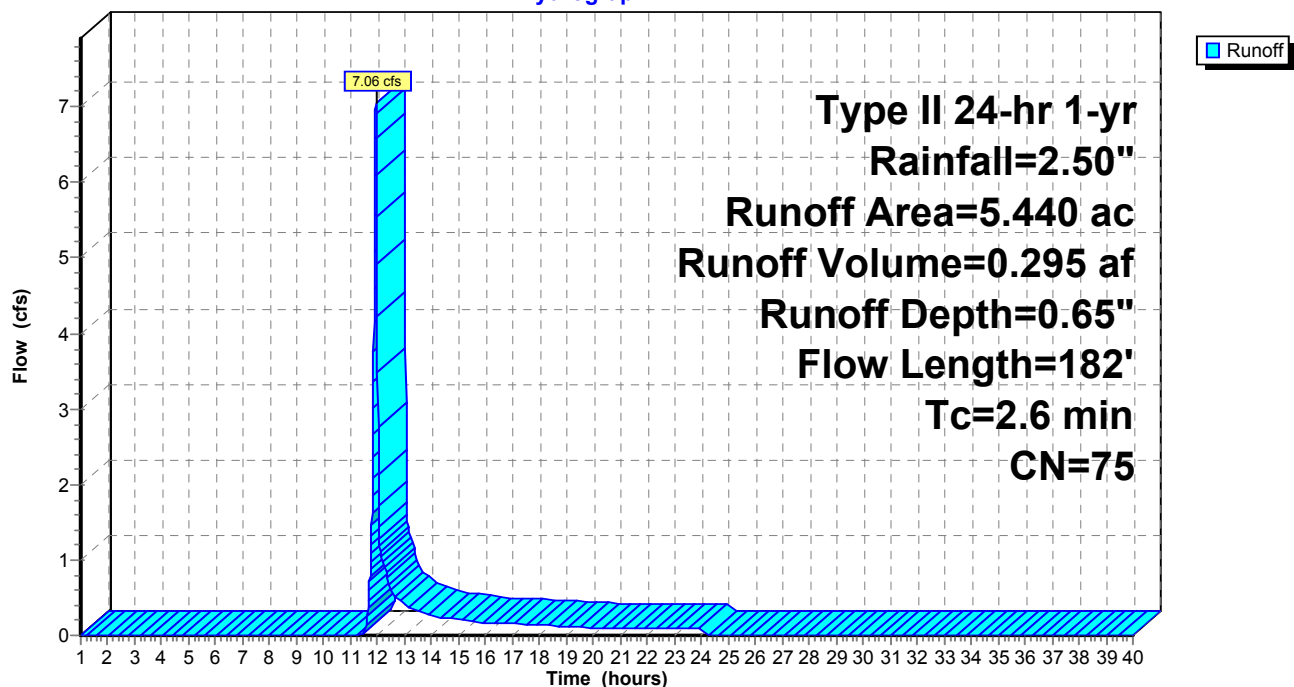
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	182	0.1300	1.2		Lag/CN Method,

Subcatchment C8: C8

Hydrograph



Subcatchment W100: W100

Runoff = 1.09 cfs @ 12.05 hrs, Volume= 0.079 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

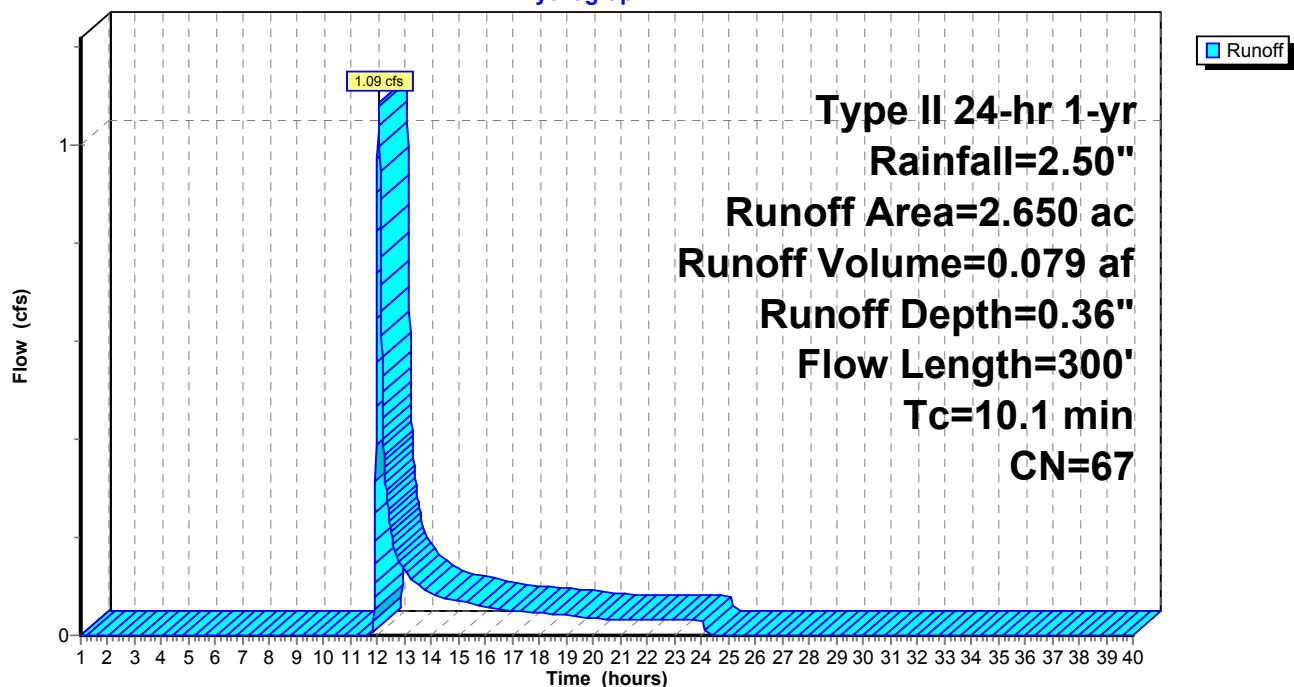
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
2.650	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	300	0.0300	0.5		Lag/CN Method,

Subcatchment W100: W100

Hydrograph



Subcatchment W101: W101

Runoff = 4.57 cfs @ 12.39 hrs, Volume= 0.742 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

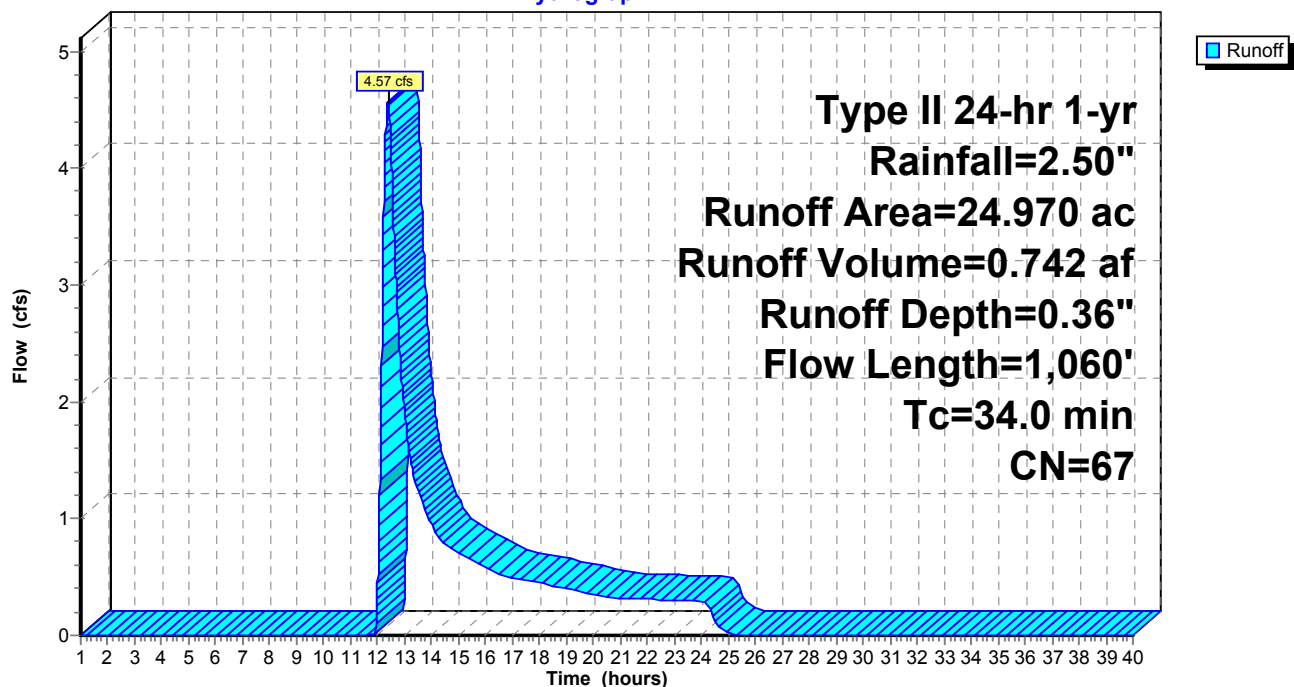
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
24.970	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.0	1,060	0.0200	0.5		Lag/CN Method,

Subcatchment W101: W101

Hydrograph



Subcatchment W102: W102

Runoff = 42.09 cfs @ 12.20 hrs, Volume= 3.802 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

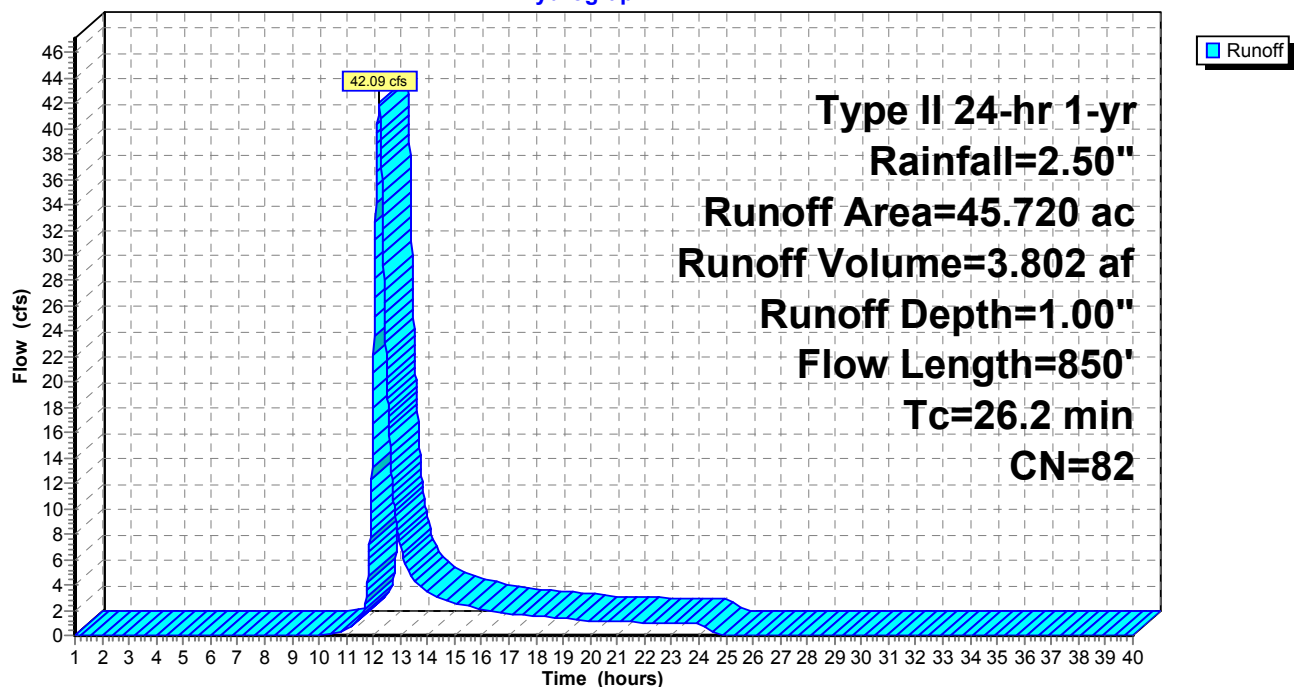
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
45.720	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.2	850	0.0100	0.5		Lag/CN Method,

Subcatchment W102: W102

Hydrograph



Subcatchment W103: W103

Runoff = 0.04 cfs @ 13.32 hrs, Volume= 0.026 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

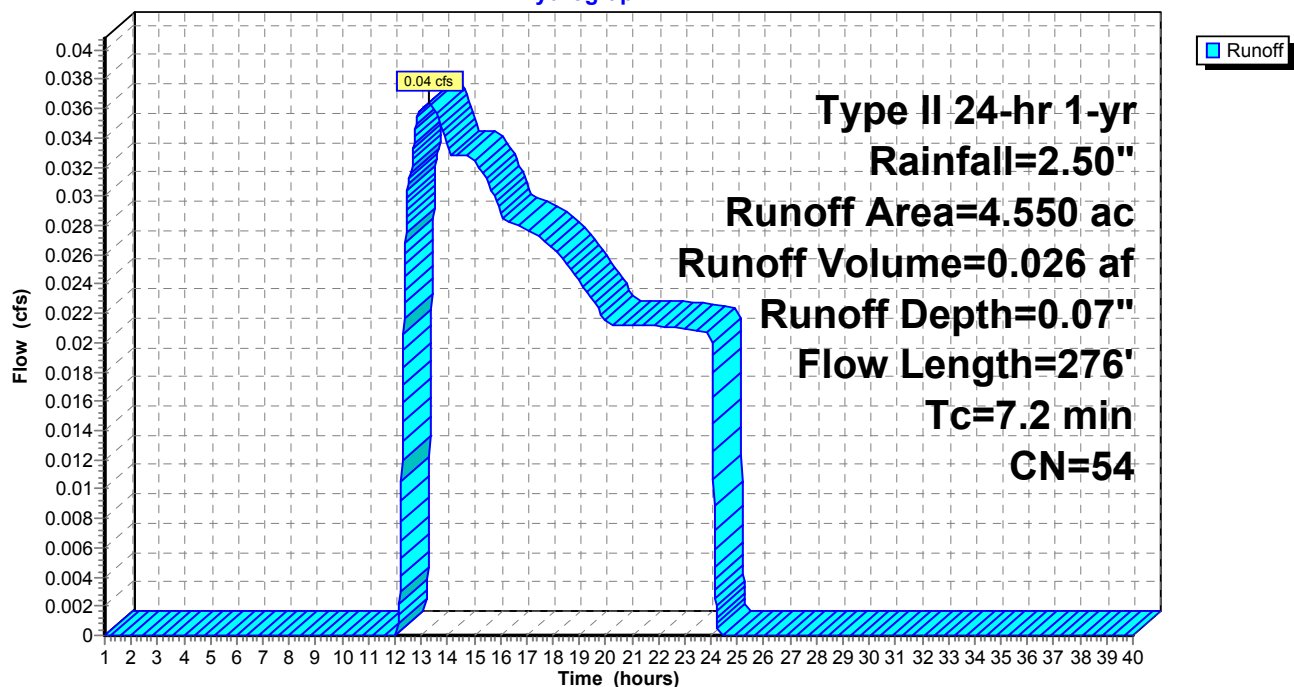
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.550	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	276	0.1000	0.6		Lag/CN Method,

Subcatchment W103: W103

Hydrograph



Subcatchment W104: W104

Runoff = 24.90 cfs @ 12.27 hrs, Volume= 2.911 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

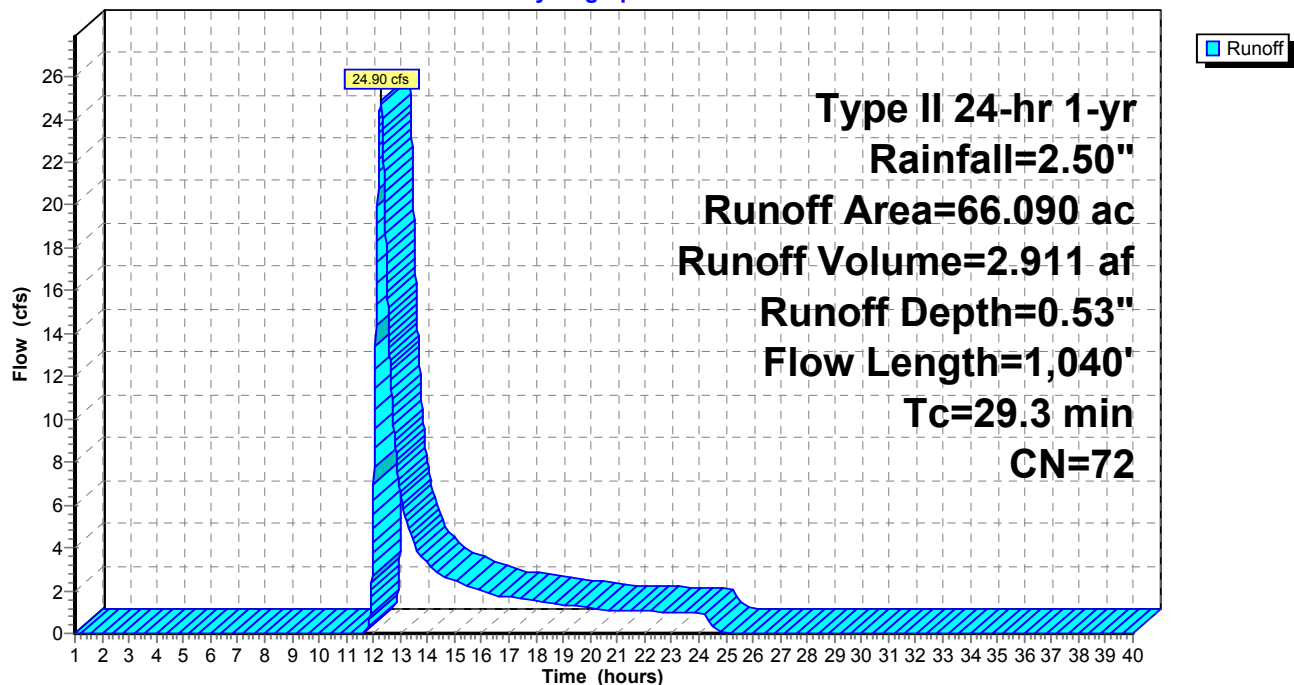
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
66.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.3	1,040	0.0200	0.6		Lag/CN Method,

Subcatchment W104: W104

Hydrograph



Subcatchment W105: W105

Runoff = 0.89 cfs @ 12.15 hrs, Volume= 0.172 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

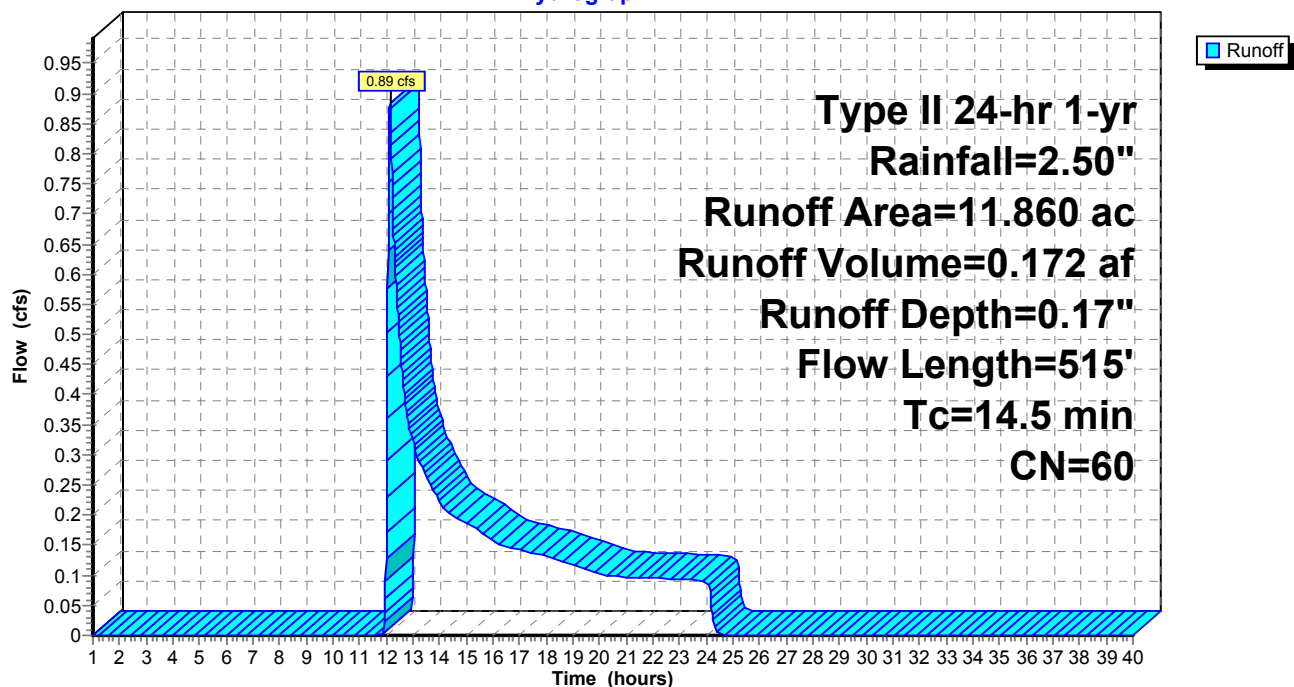
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
11.860	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	515	0.0500	0.6		Lag/CN Method,

Subcatchment W105: W105

Hydrograph



Subcatchment W106: W106

Runoff = 18.00 cfs @ 11.97 hrs, Volume= 0.821 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

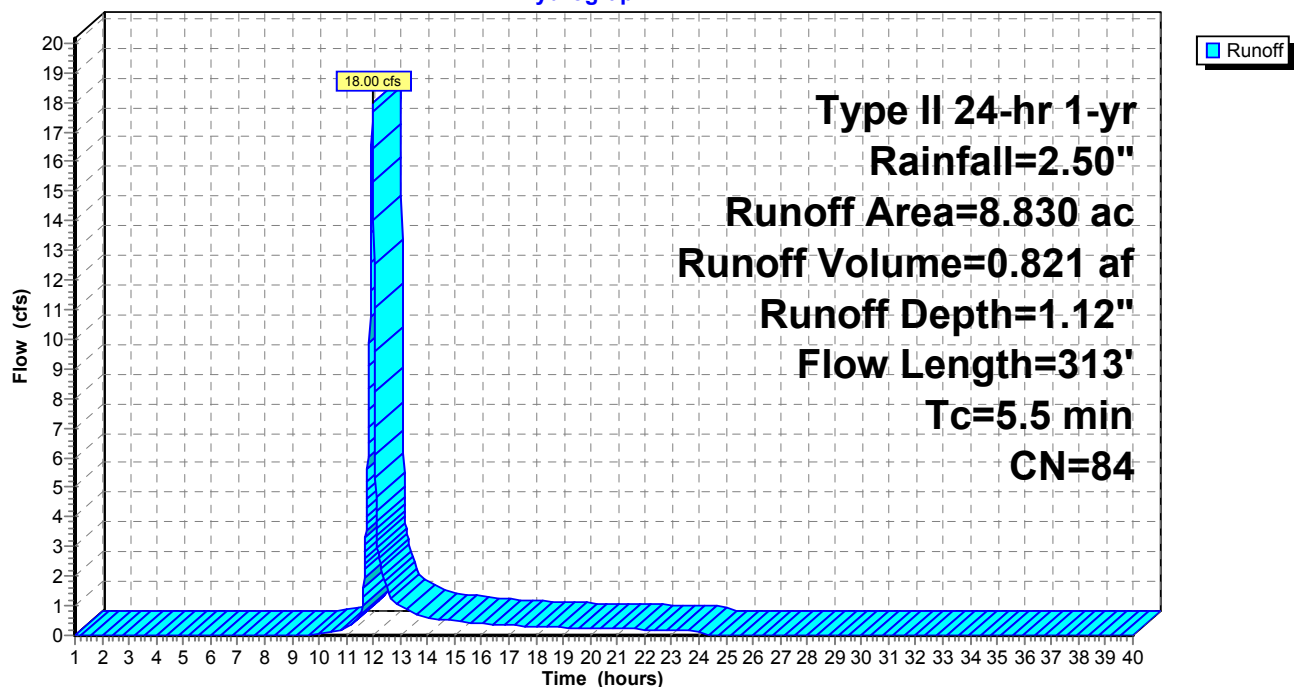
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.830	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	313	0.0400	0.9		Lag/CN Method,

Subcatchment W106: W106

Hydrograph



Subcatchment W107: W107

Runoff = 21.96 cfs @ 12.09 hrs, Volume= 1.521 af, Depth= 0.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

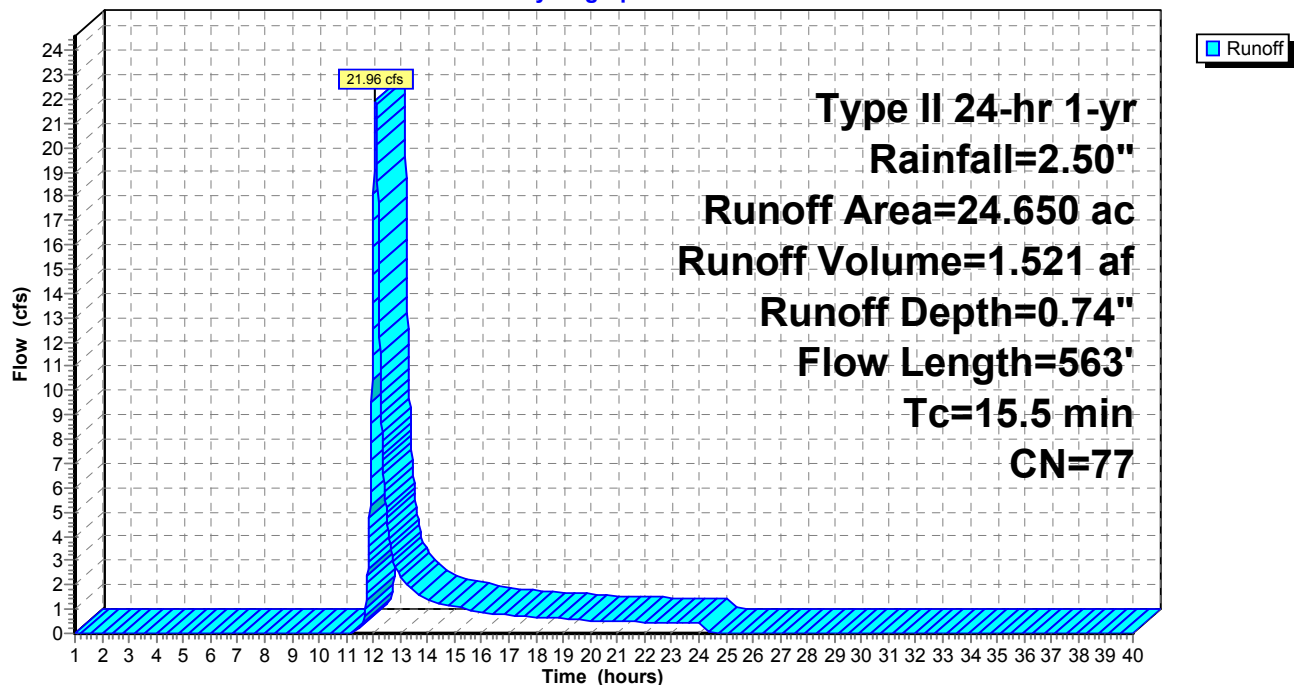
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
24.650	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	563	0.0200	0.6		Lag/CN Method,

Subcatchment W107: W107

Hydrograph



Subcatchment W108: W108

Runoff = 6.91 cfs @ 12.11 hrs, Volume= 0.517 af, Depth= 0.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

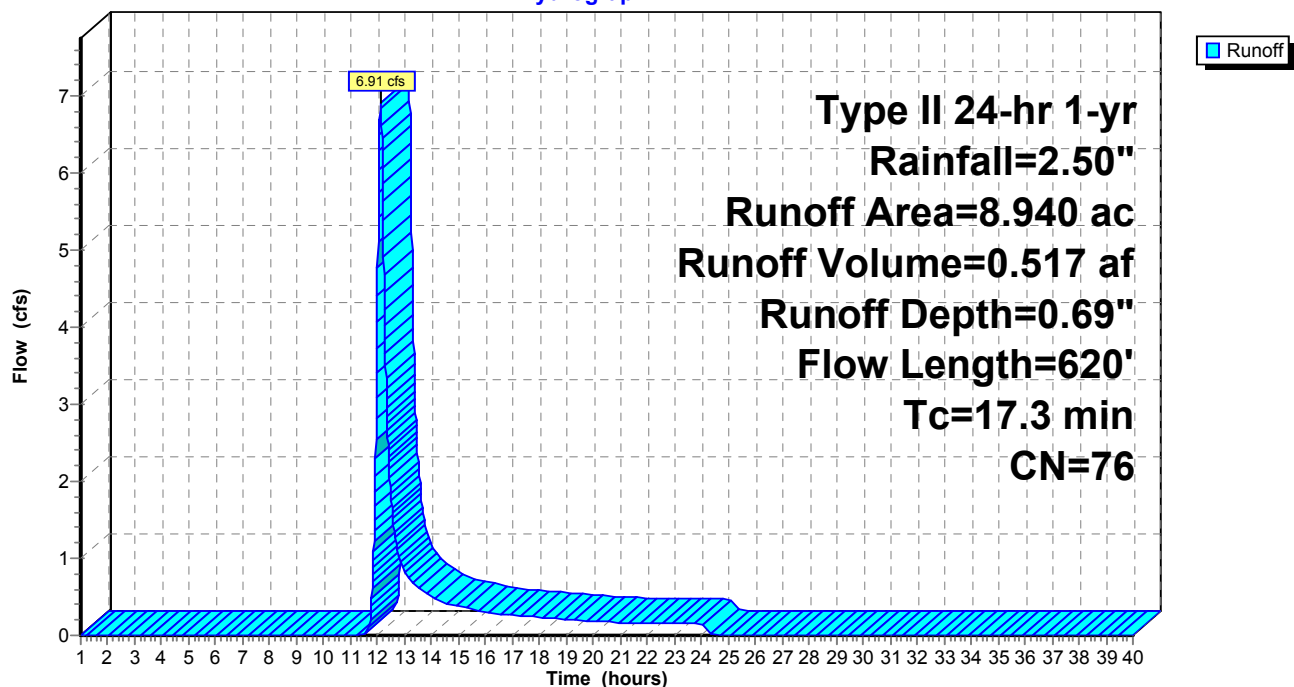
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.940	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	620	0.0200	0.6		Lag/CN Method,

Subcatchment W108: W108

Hydrograph



Subcatchment W109: W109

Runoff = 1.70 cfs @ 12.30 hrs, Volume= 0.220 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

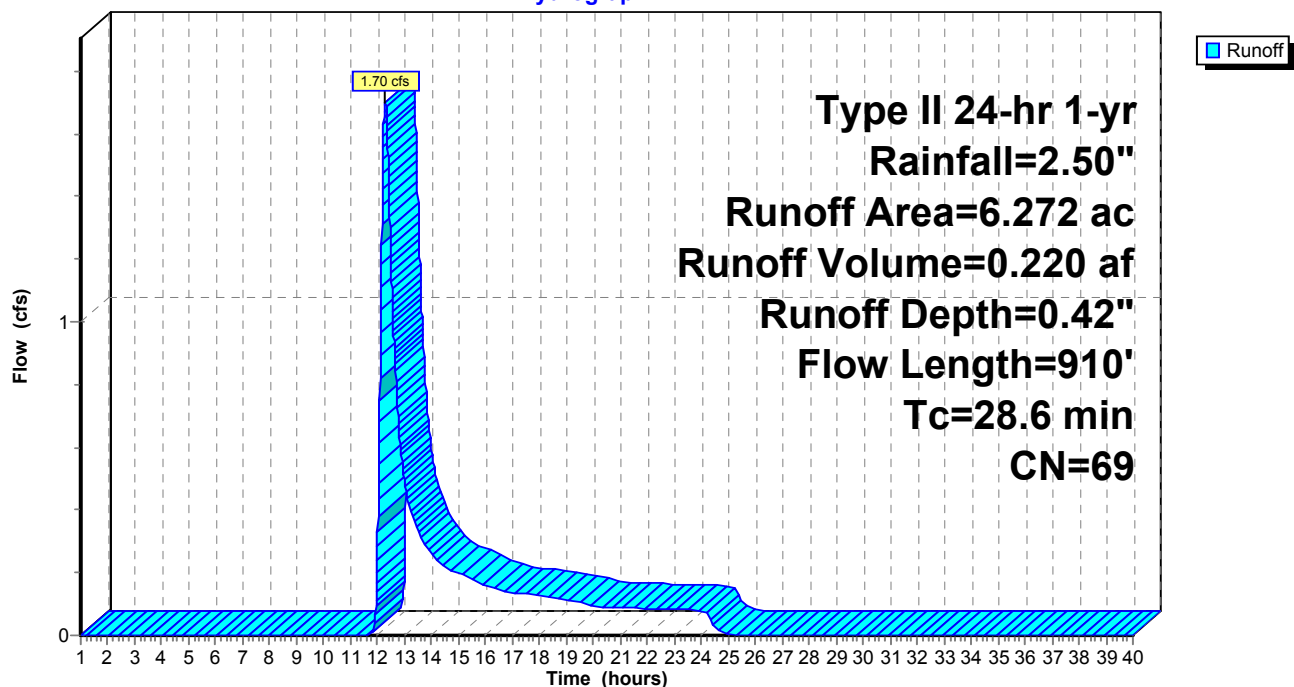
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
6.272	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	910	0.0200	0.5		Lag/CN Method,

Subcatchment W109: W109

Hydrograph



Subcatchment W110: W110

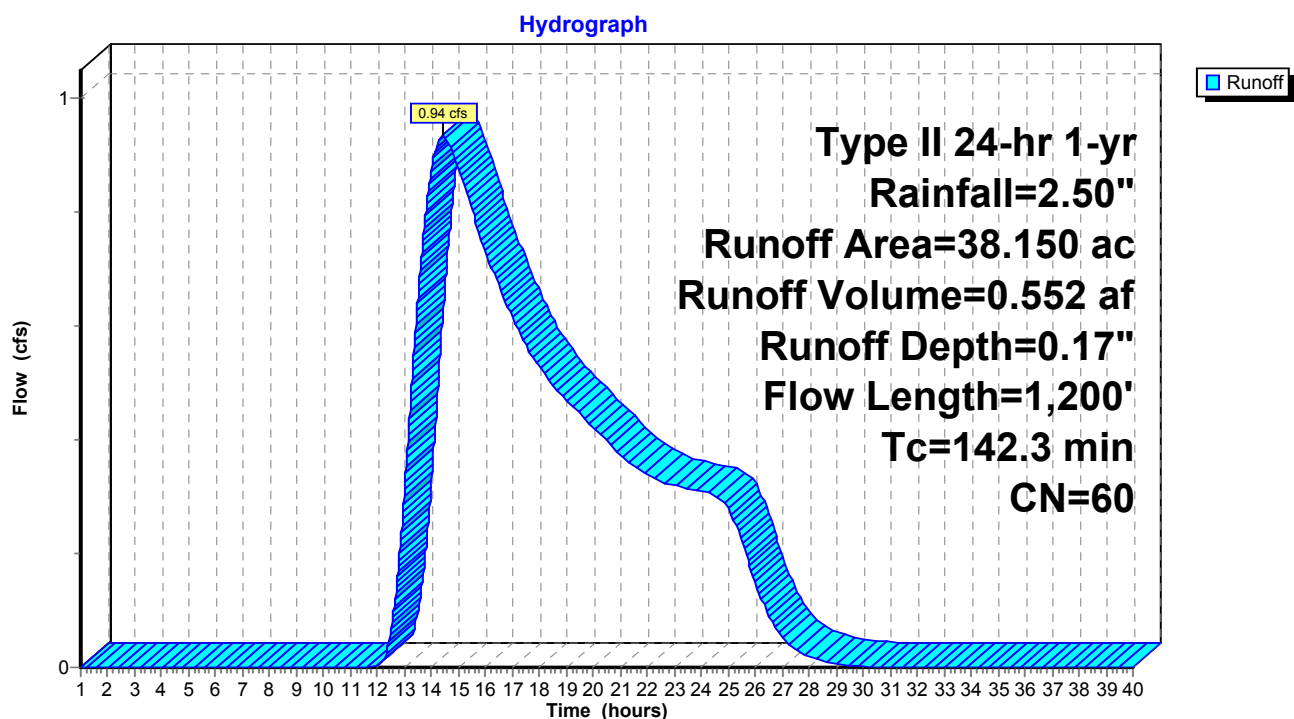
Runoff = 0.94 cfs @ 14.39 hrs, Volume= 0.552 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
38.150	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
142.3	1,200	0.0020	0.1		Lag/CN Method,

Subcatchment W110: W110

Subcatchment W111: W111

Runoff = 1.90 cfs @ 12.04 hrs, Volume= 0.123 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

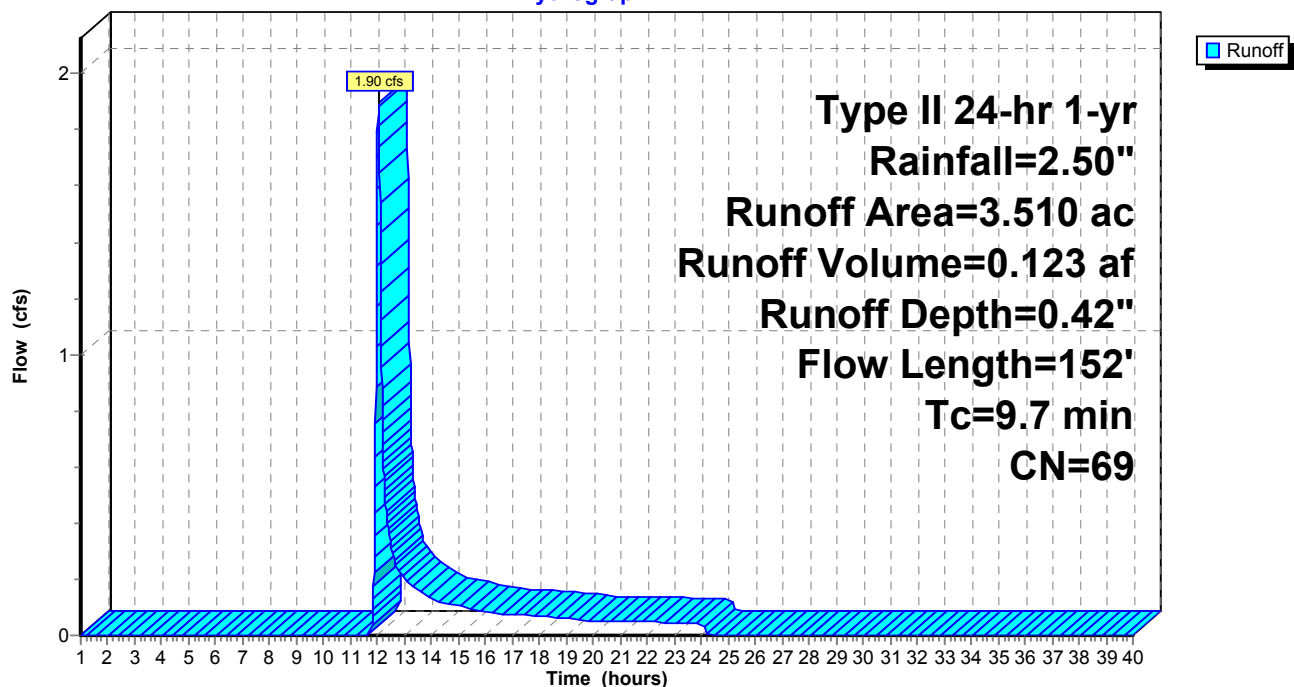
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
3.510	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	152	0.0100	0.3		Lag/CN Method,

Subcatchment W111: W111

Hydrograph



Subcatchment W112: W112

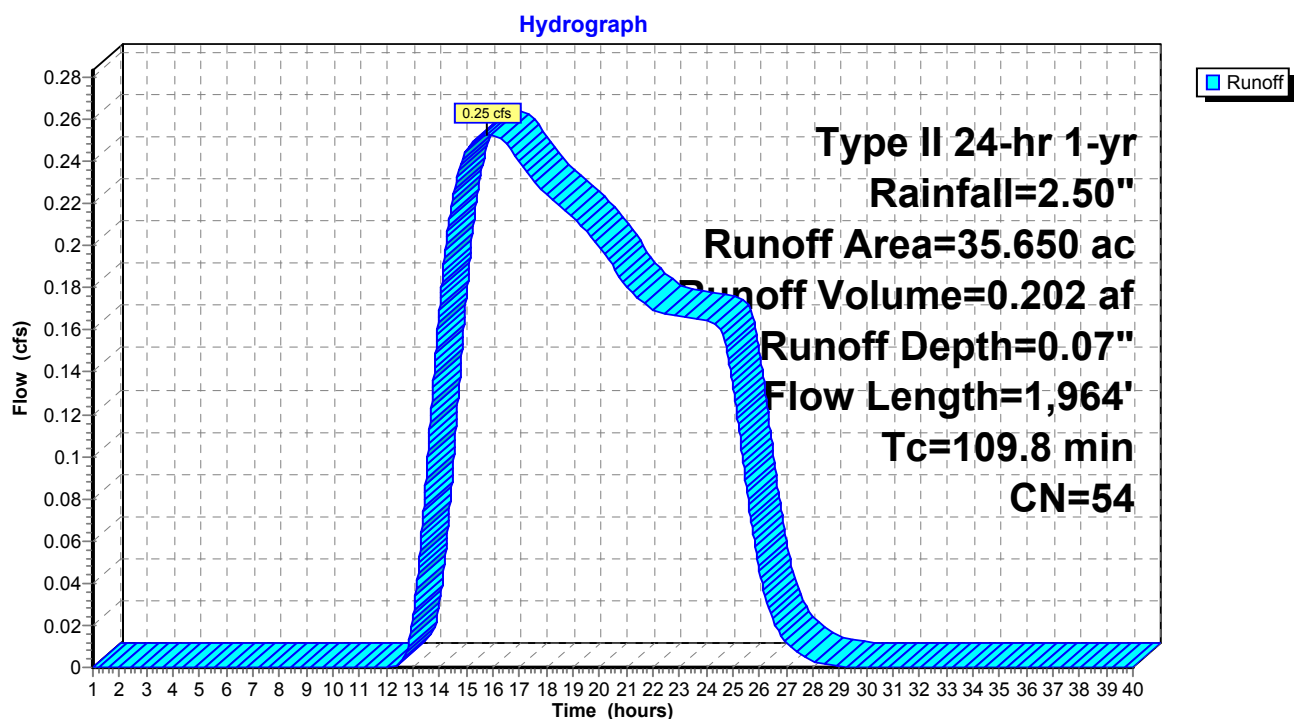
Runoff = 0.25 cfs @ 15.74 hrs, Volume= 0.202 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
35.650	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
109.8	1,964	0.0100	0.3		Lag/CN Method,

Subcatchment W112: W112

Subcatchment W113: W113

Runoff = 2.89 cfs @ 12.20 hrs, Volume= 0.314 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

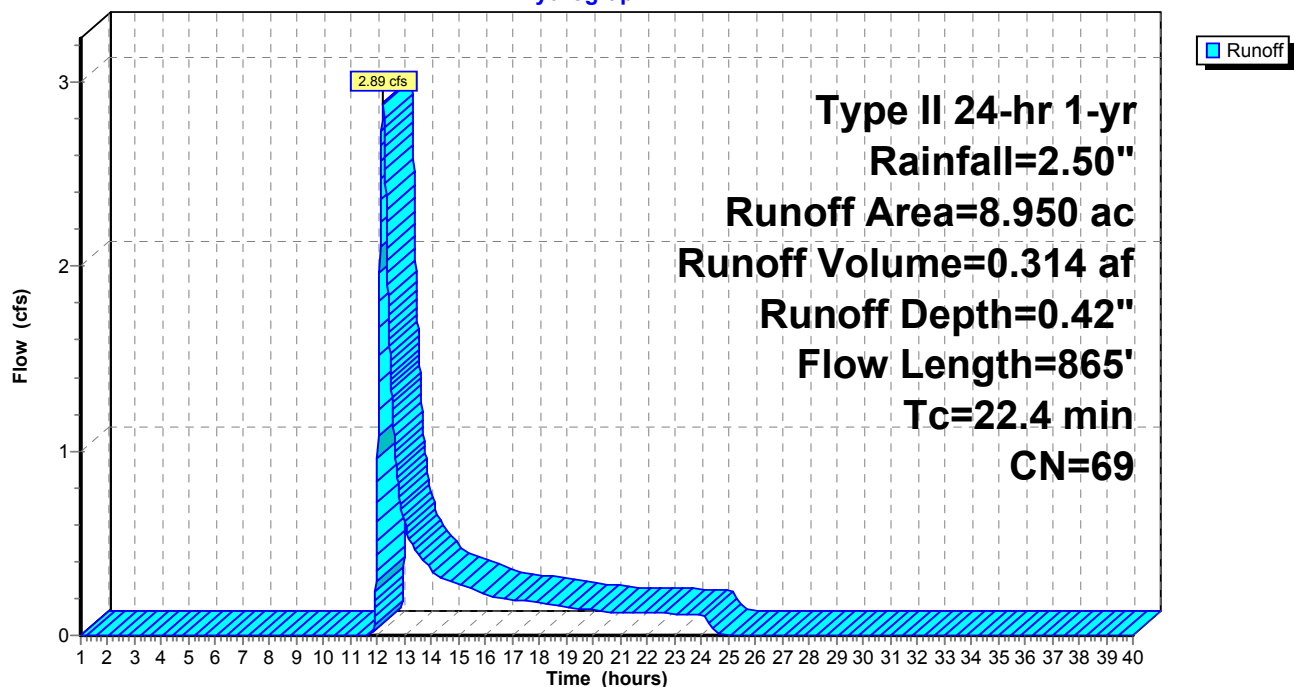
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.950	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	865	0.0300	0.6		Lag/CN Method,

Subcatchment W113: W113

Hydrograph



Subcatchment W114: W114

Runoff = 0.59 cfs @ 13.44 hrs, Volume= 0.362 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

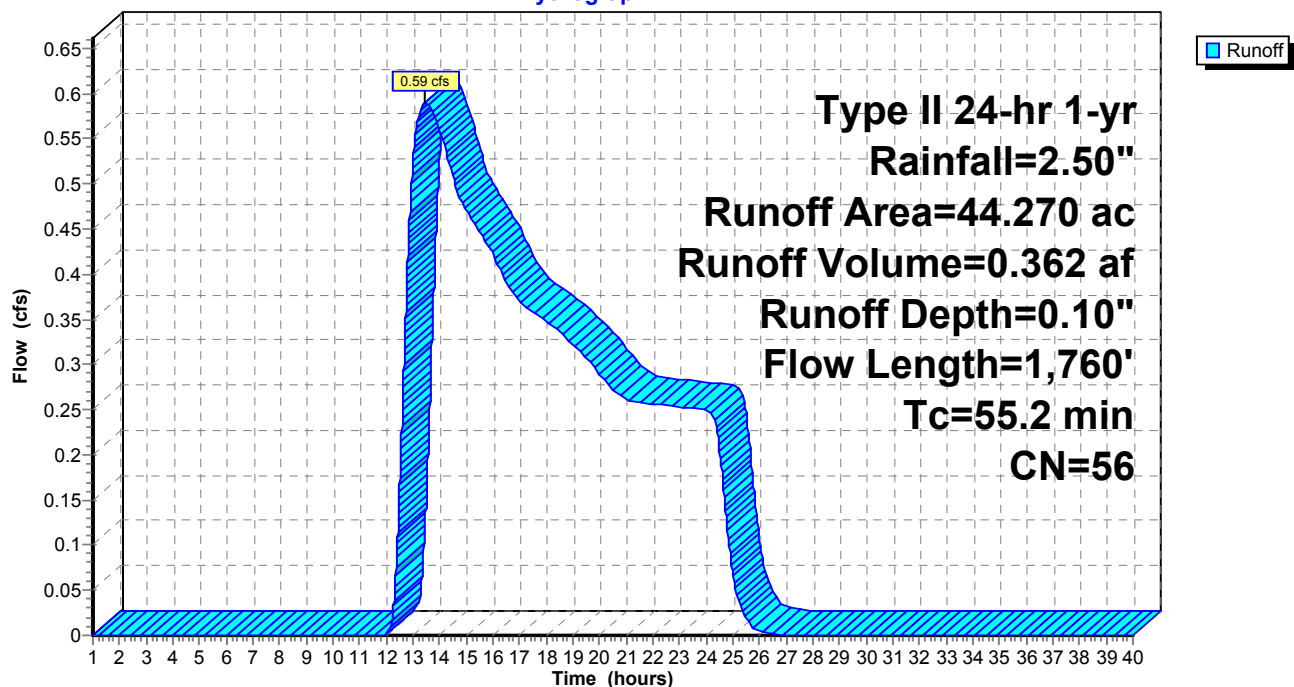
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
44.270	56	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.2	1,760	0.0300	0.5		Lag/CN Method,

Subcatchment W114: W114

Hydrograph



Subcatchment W115: W115

Runoff = 0.26 cfs @ 13.18 hrs, Volume= 0.142 af, Depth= 0.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

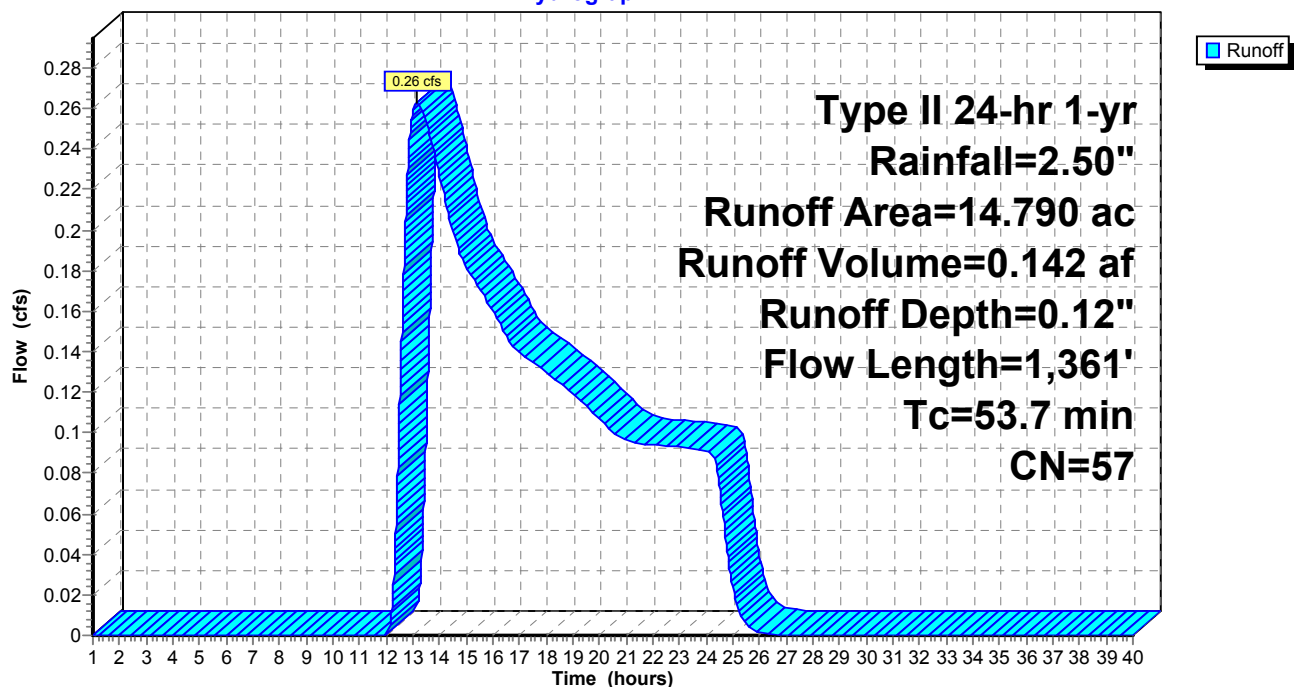
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
14.790	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	1,361	0.0200	0.4		Lag/CN Method,

Subcatchment W115: W115

Hydrograph



Subcatchment W116: W116

Runoff = 2.18 cfs @ 12.03 hrs, Volume= 0.159 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

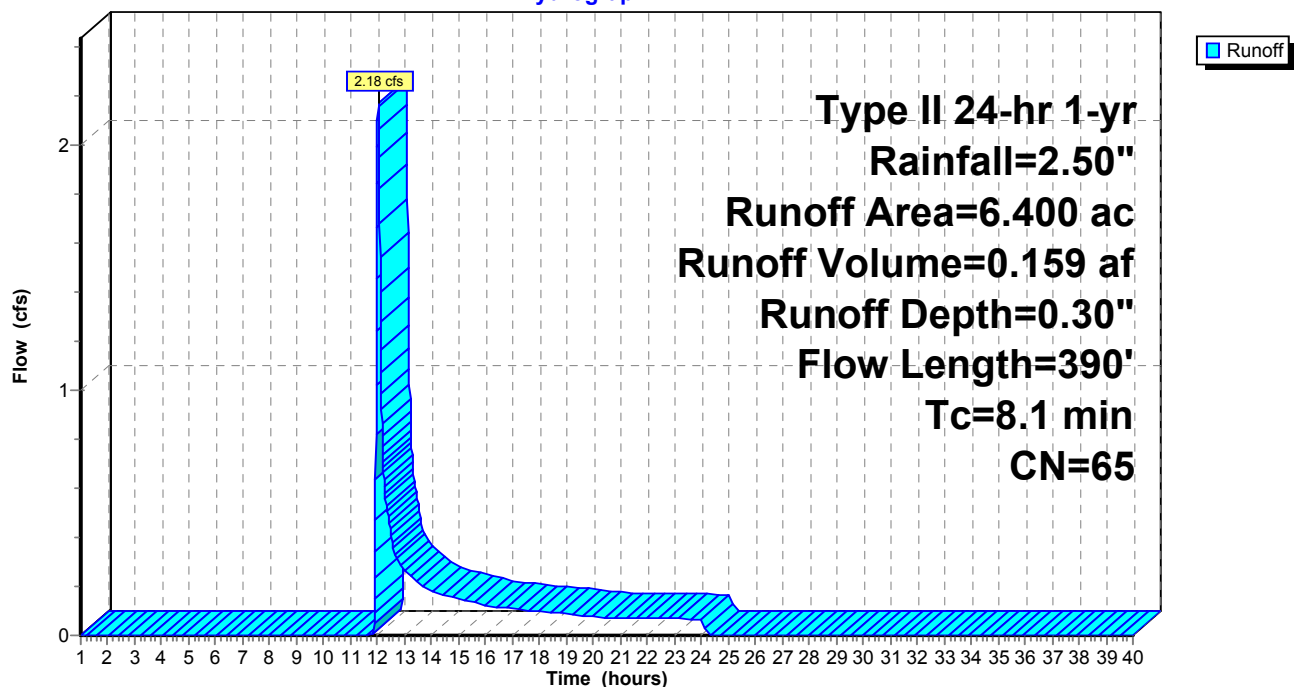
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
6.400	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	390	0.0800	0.8		Lag/CN Method,

Subcatchment W116: W116

Hydrograph



Subcatchment W117: W117

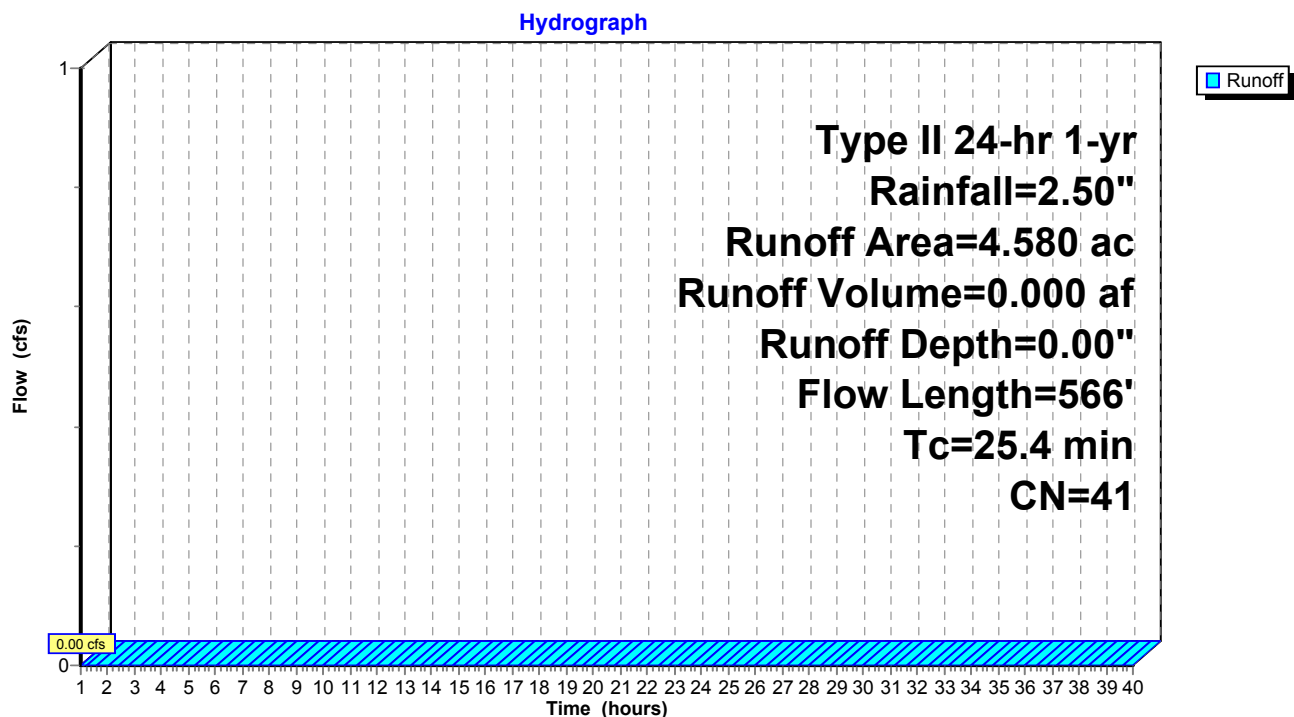
Runoff = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.580	41	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	566	0.0500	0.4		Lag/CN Method,

Subcatchment W117: W117

Subcatchment W118: W118

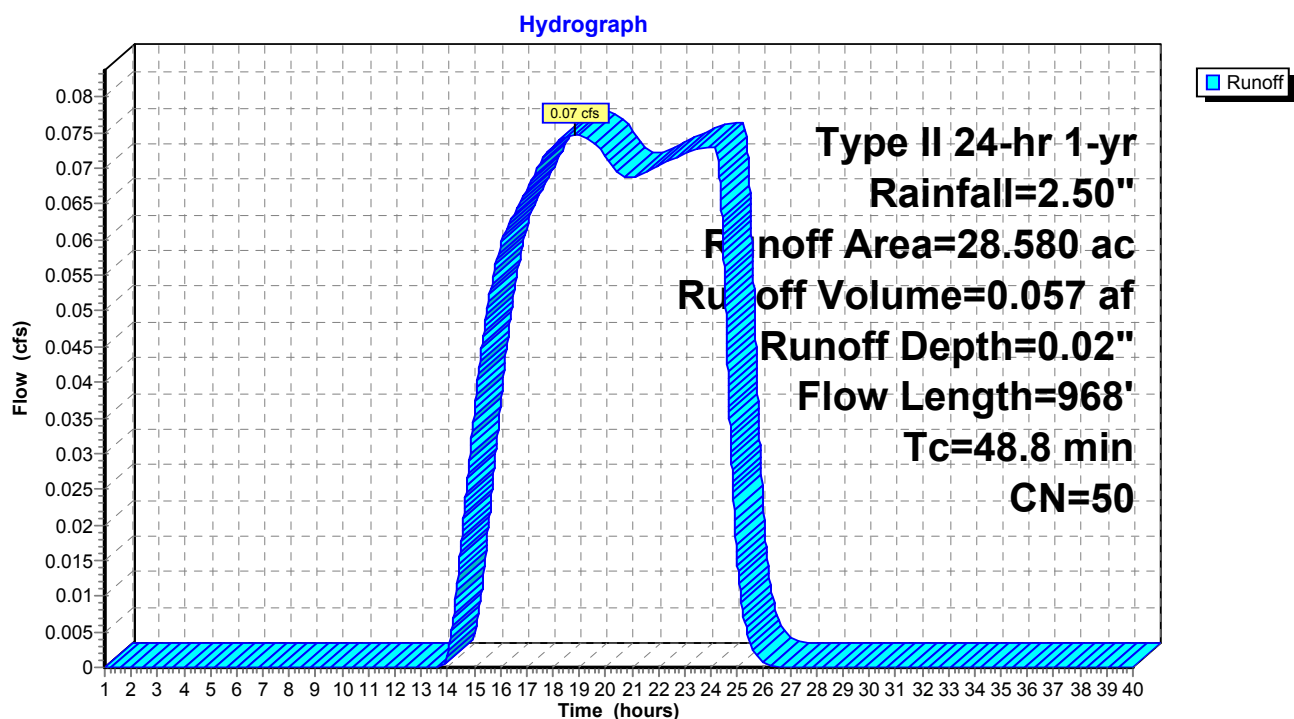
Runoff = 0.07 cfs @ 18.82 hrs, Volume= 0.057 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
28.580	50	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.8	968	0.0200	0.3		Lag/CN Method,

Subcatchment W118: W118

Subcatchment W119: W119

Runoff = 0.02 cfs @ 24.01 hrs, Volume= 0.011 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

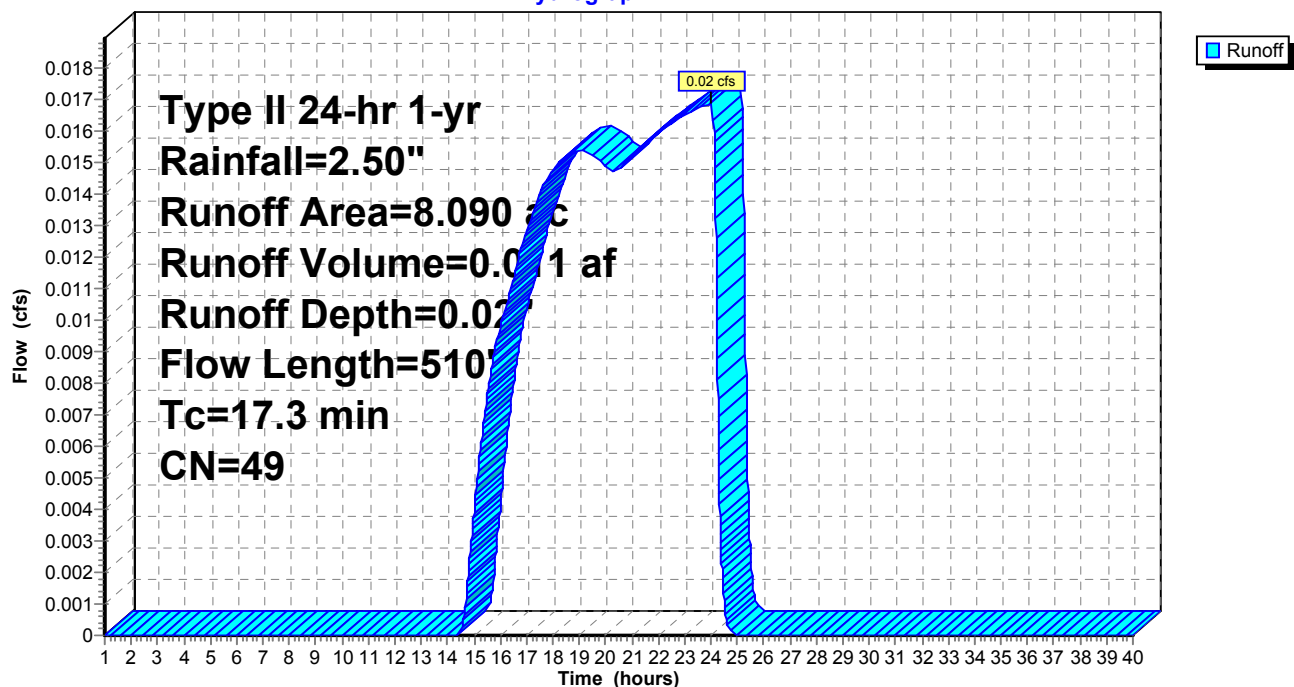
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.090	49	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	510	0.0600	0.5		Lag/CN Method,

Subcatchment W119: W119

Hydrograph



Subcatchment W12: W12

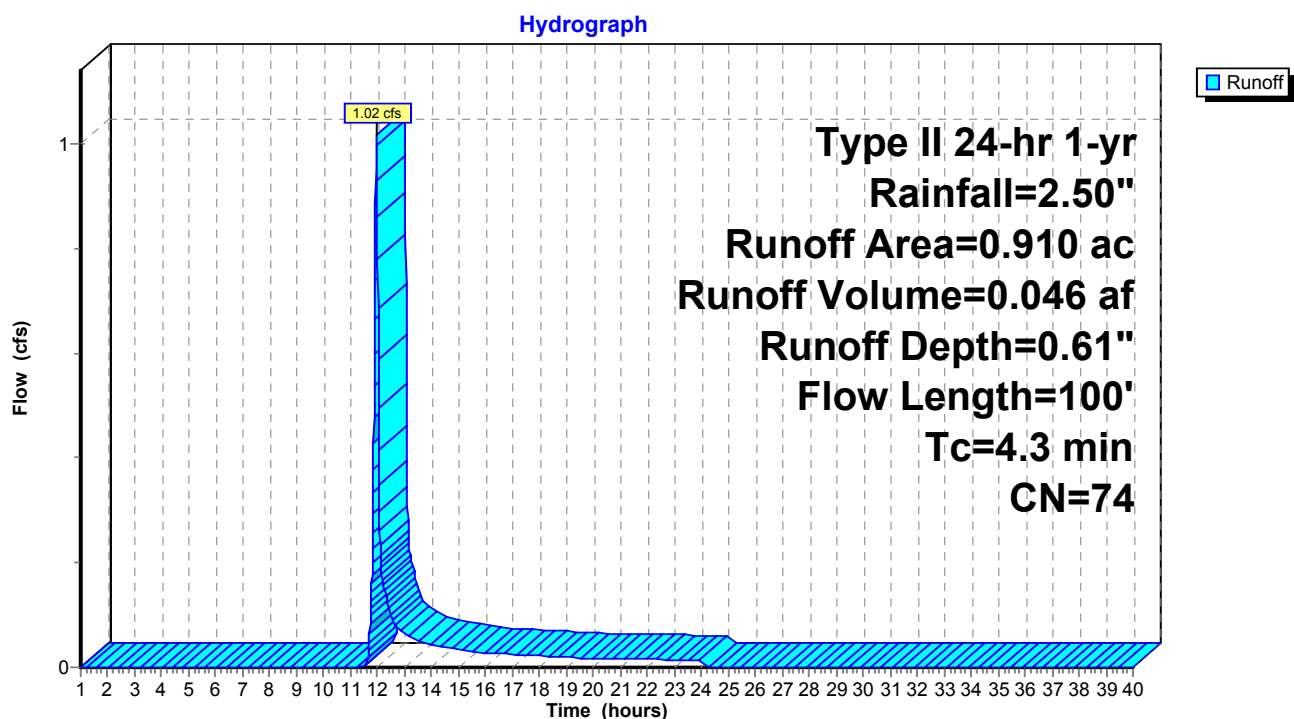
Runoff = 1.02 cfs @ 11.96 hrs, Volume= 0.046 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
0.910	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.0200	0.4		Lag/CN Method,

Subcatchment W12: W12

Subcatchment W120: W120

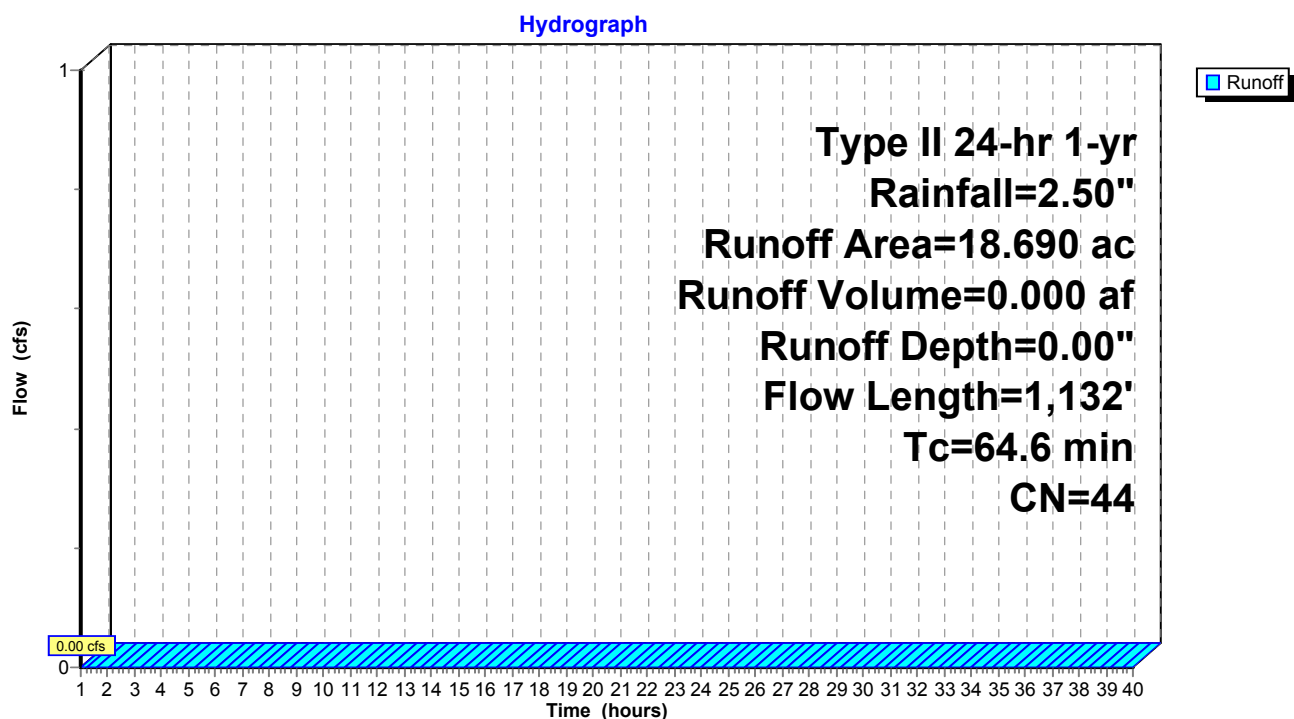
Runoff = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.690	44	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.6	1,132	0.0200	0.3		Lag/CN Method,

Subcatchment W120: W120

Subcatchment W121: W121

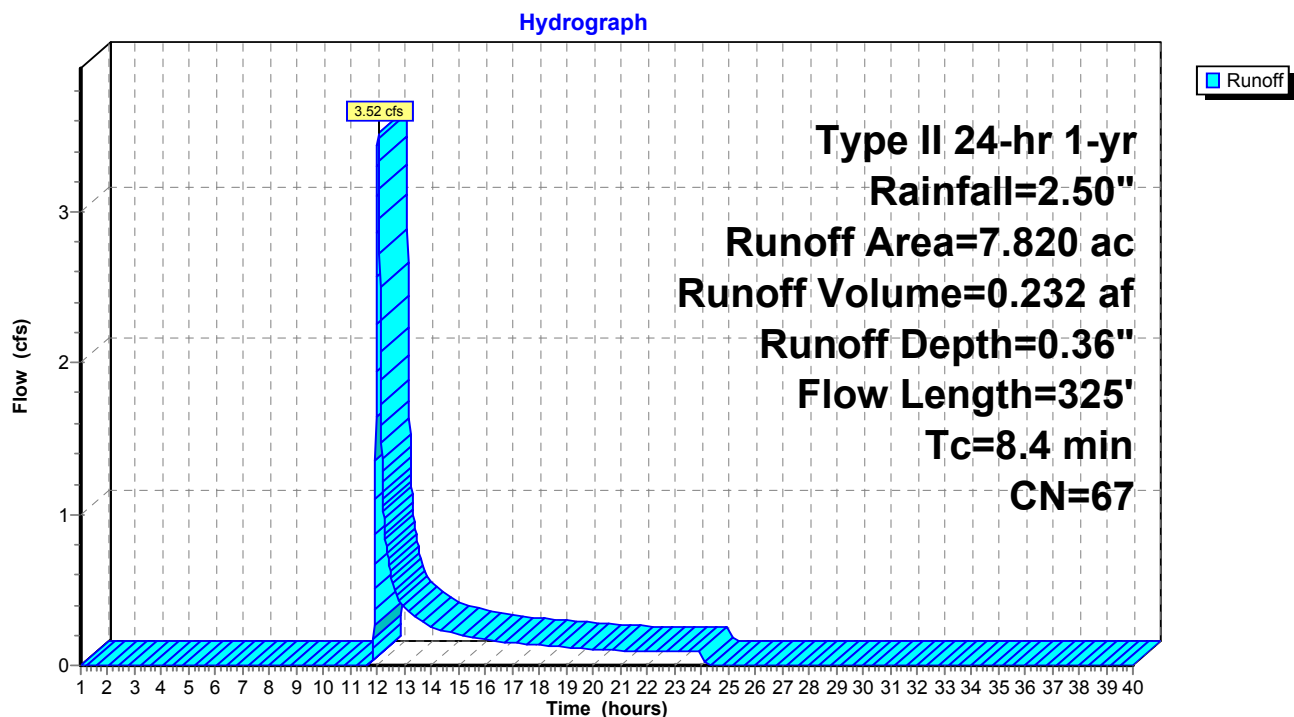
Runoff = 3.52 cfs @ 12.03 hrs, Volume= 0.232 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.820	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	325	0.0500	0.6		Lag/CN Method,

Subcatchment W121: W121

Subcatchment W122: W122

Runoff = 14.78 cfs @ 12.09 hrs, Volume= 1.008 af, Depth= 1.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

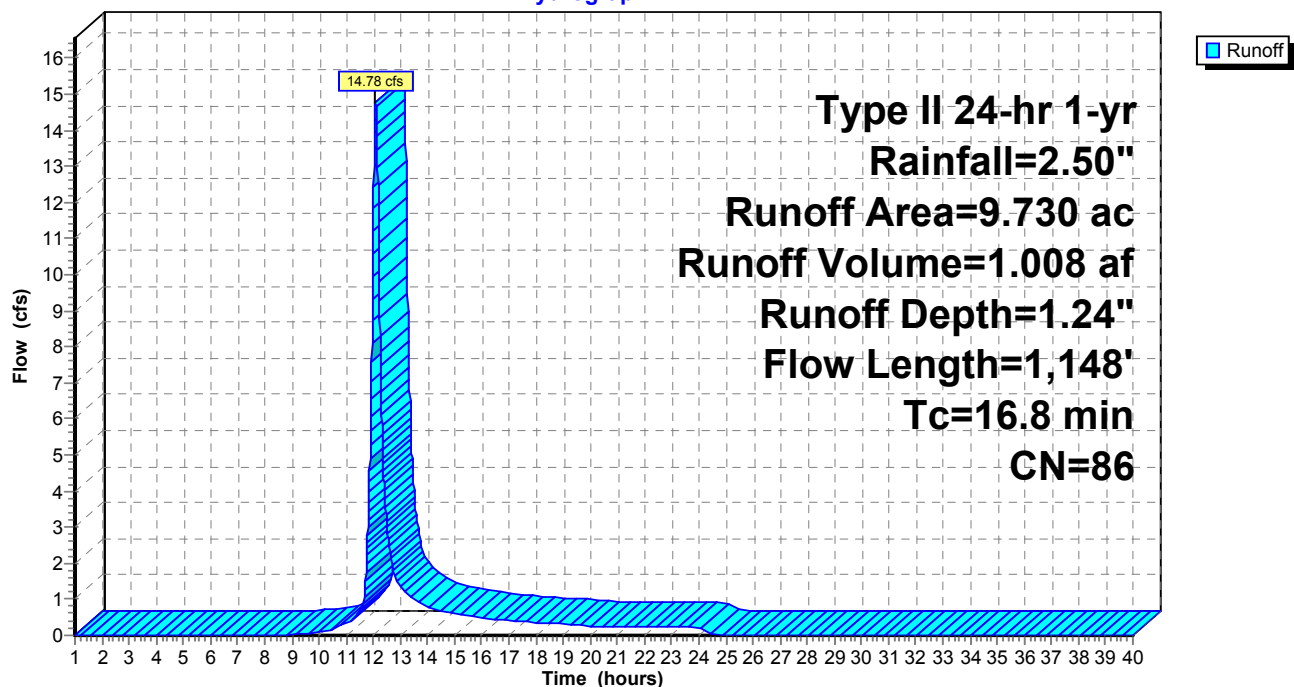
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.730	86	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,148	0.0300	1.1		Lag/CN Method,

Subcatchment W122: W122

Hydrograph



Subcatchment W123: W123

Runoff = 1.76 cfs @ 12.10 hrs, Volume= 0.127 af, Depth= 0.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

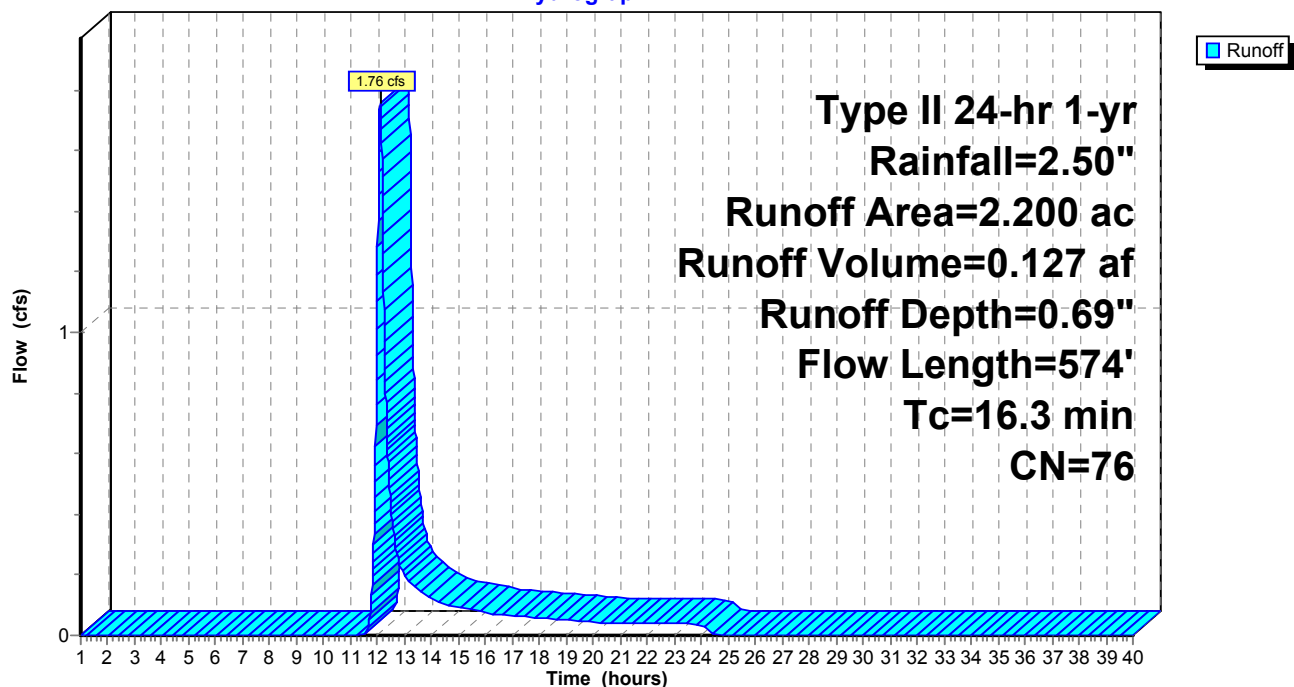
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
2.200	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	574	0.0200	0.6		Lag/CN Method,

Subcatchment W123: W123

Hydrograph



Subcatchment W124: W124

Runoff = 0.38 cfs @ 12.08 hrs, Volume= 0.028 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

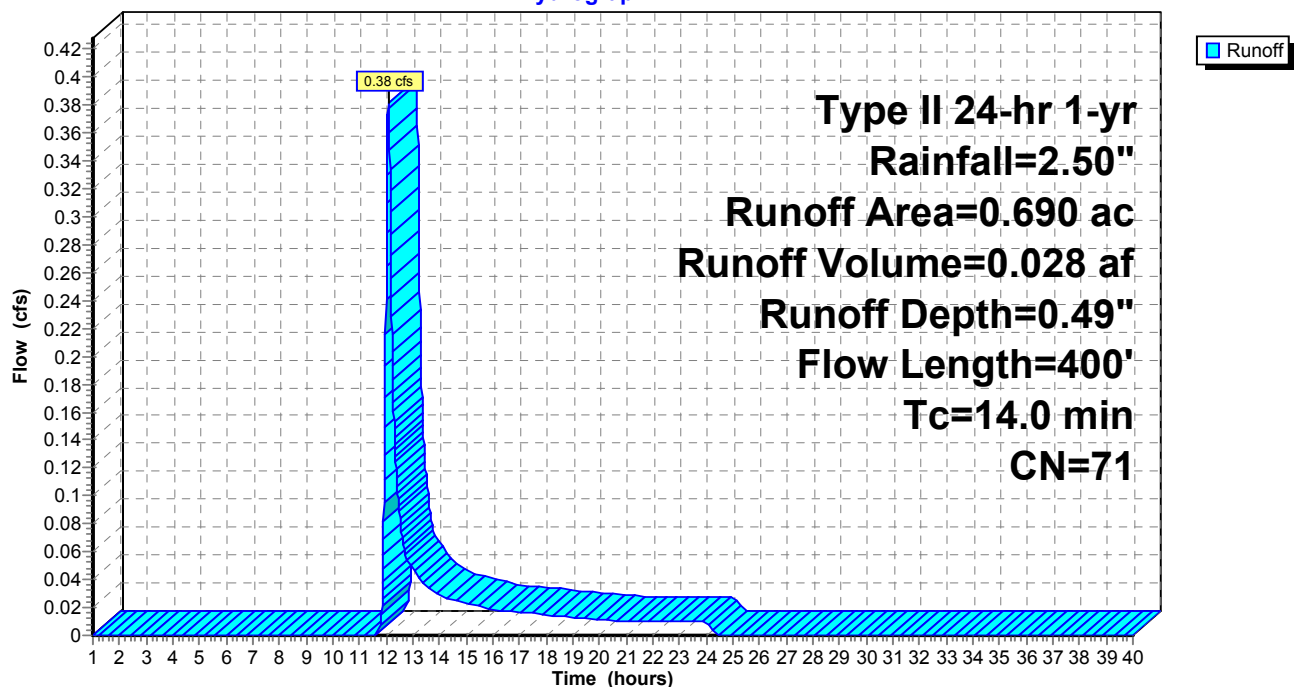
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
0.690	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	400	0.0200	0.5		Lag/CN Method,

Subcatchment W124: W124

Hydrograph



Subcatchment W125: W125

Runoff = 3.12 cfs @ 12.57 hrs, Volume= 0.517 af, Depth= 0.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

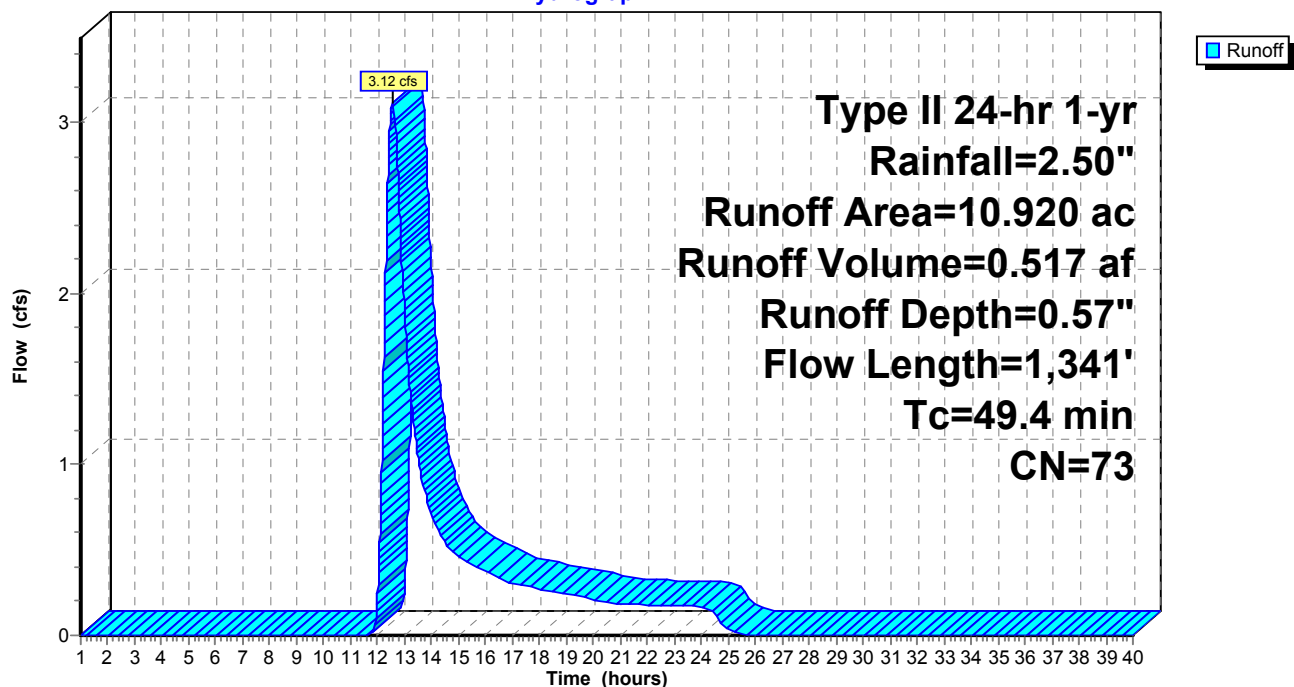
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
10.920	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.4	1,341	0.0100	0.5		Lag/CN Method,

Subcatchment W125: W125

Hydrograph



Subcatchment W126: W126

Runoff = 31.44 cfs @ 12.06 hrs, Volume= 1.942 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

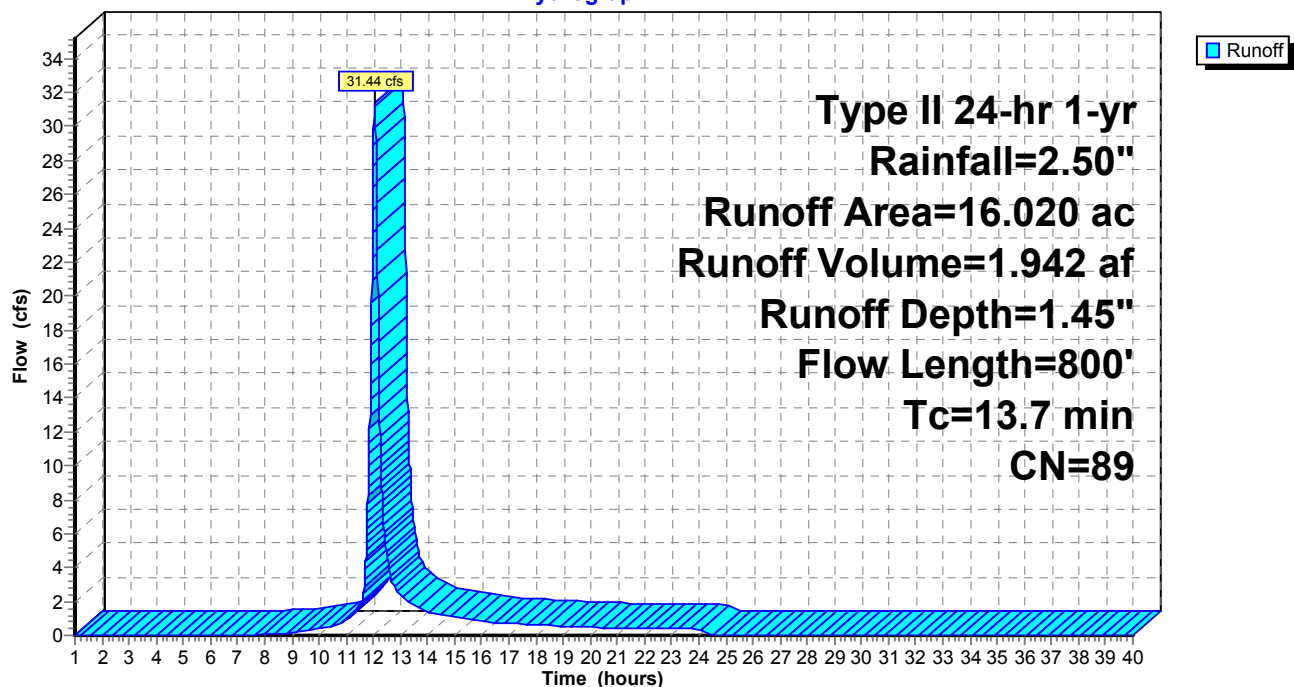
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
16.020	89	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	800	0.0200	1.0		Lag/CN Method,

Subcatchment W126: W126

Hydrograph



Subcatchment W128: W128

Runoff = 4.34 cfs @ 12.08 hrs, Volume= 0.296 af, Depth= 0.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

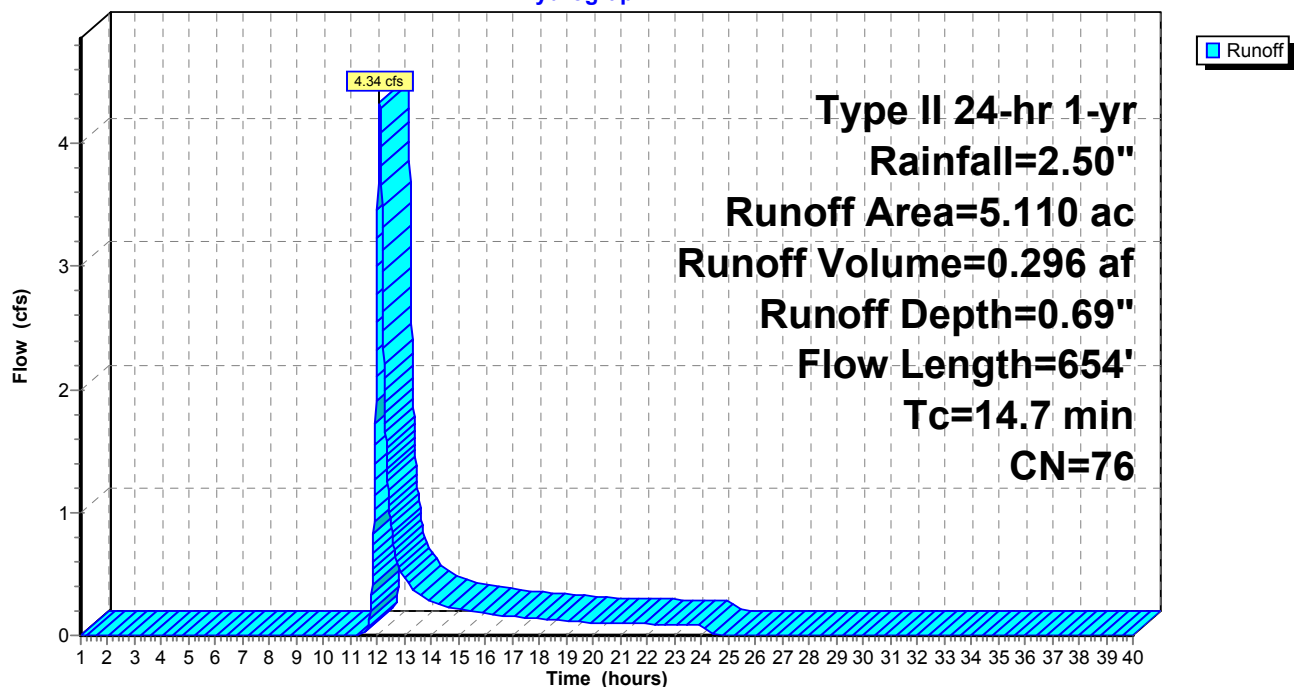
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.110	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	654	0.0300	0.7		Lag/CN Method,

Subcatchment W128: W128

Hydrograph



Subcatchment W129: W129

Runoff = 20.84 cfs @ 12.13 hrs, Volume= 1.554 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

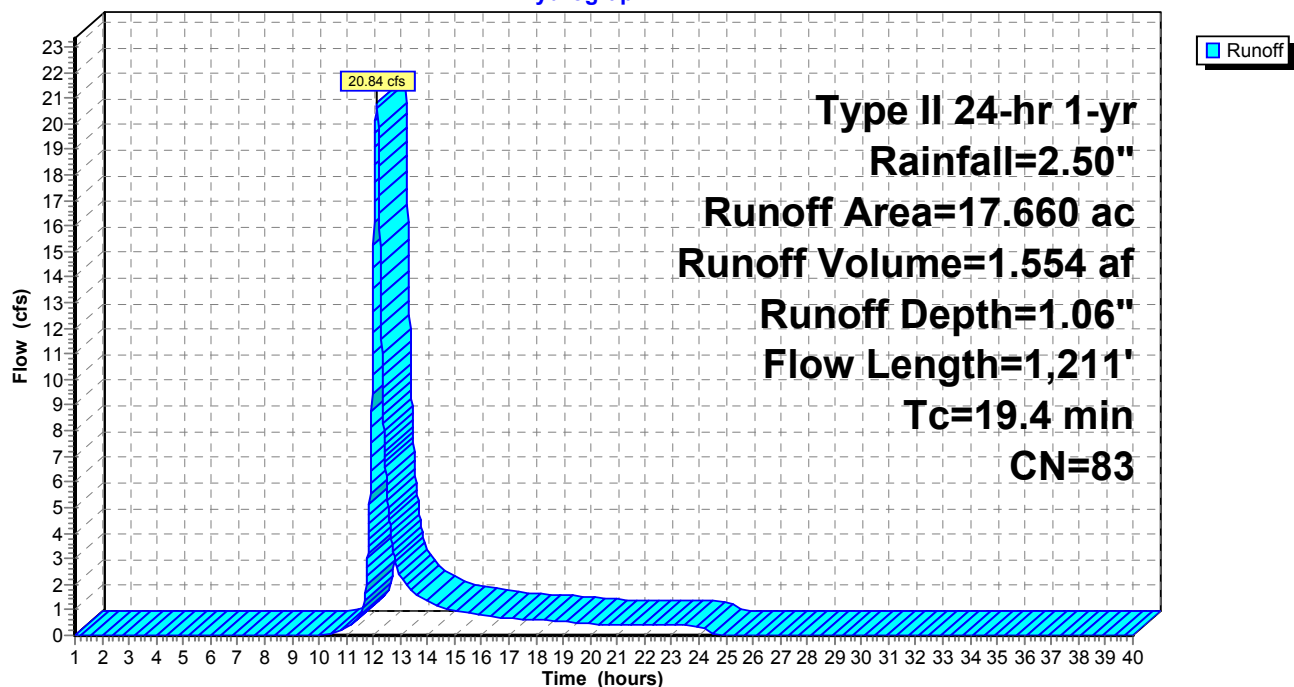
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
17.660	83	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.4	1,211	0.0300	1.0		Lag/CN Method,

Subcatchment W129: W129

Hydrograph



Subcatchment W13: W13

Runoff = 0.61 cfs @ 11.92 hrs, Volume= 0.024 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

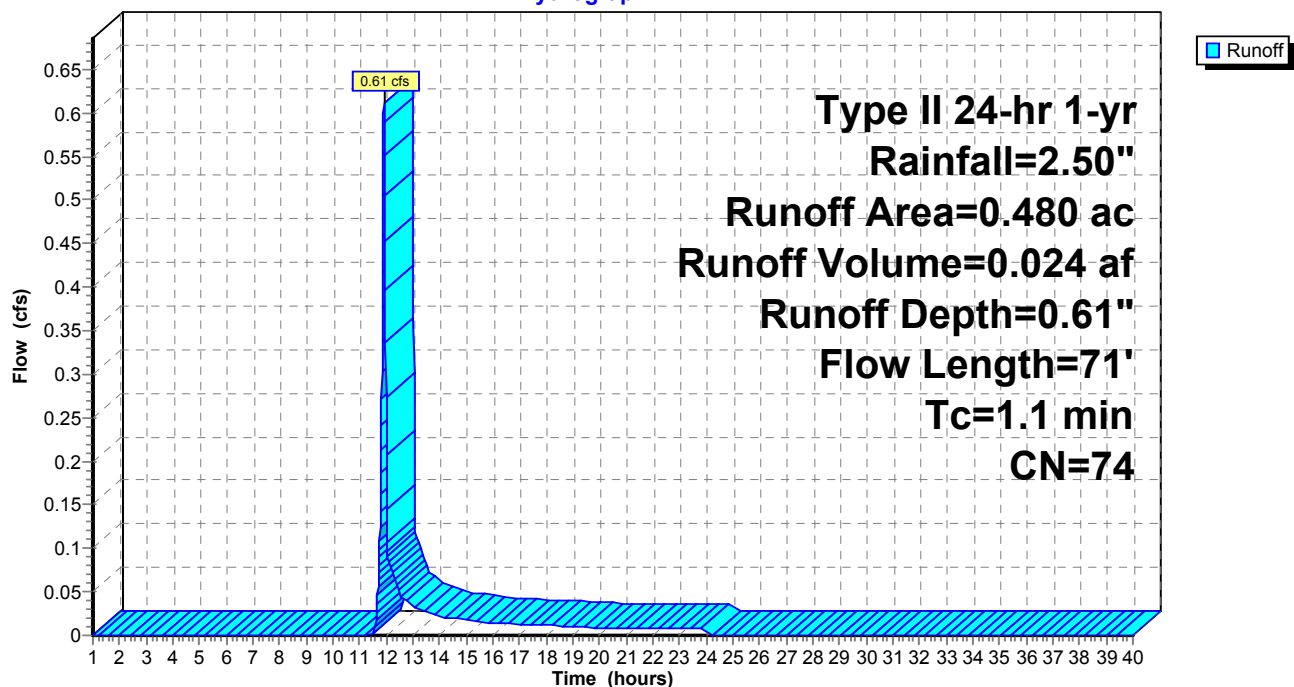
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
0.480	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	71	0.1700	1.1		Lag/CN Method,

Subcatchment W13: W13

Hydrograph



Subcatchment W134: W134

Runoff = 13.81 cfs @ 12.02 hrs, Volume= 0.760 af, Depth= 1.31"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

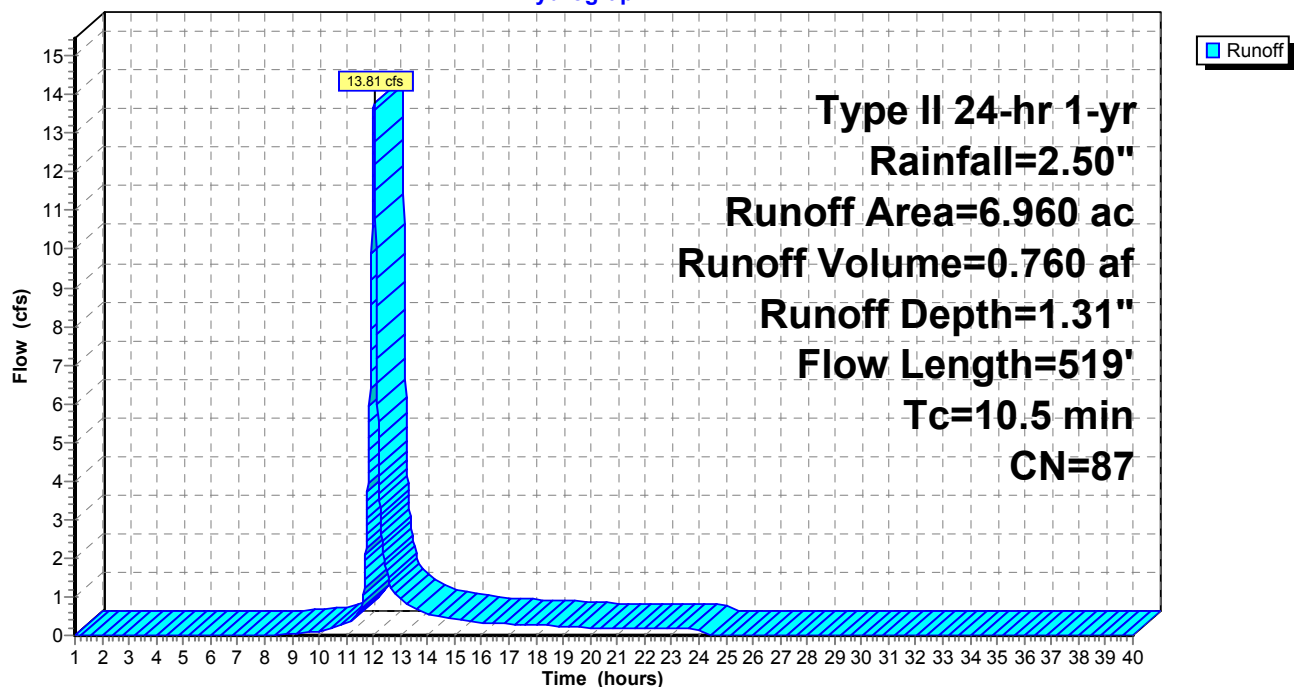
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
6.960	87	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	519	0.0200	0.8		Lag/CN Method,

Subcatchment W134: W134

Hydrograph



Subcatchment W135: W135

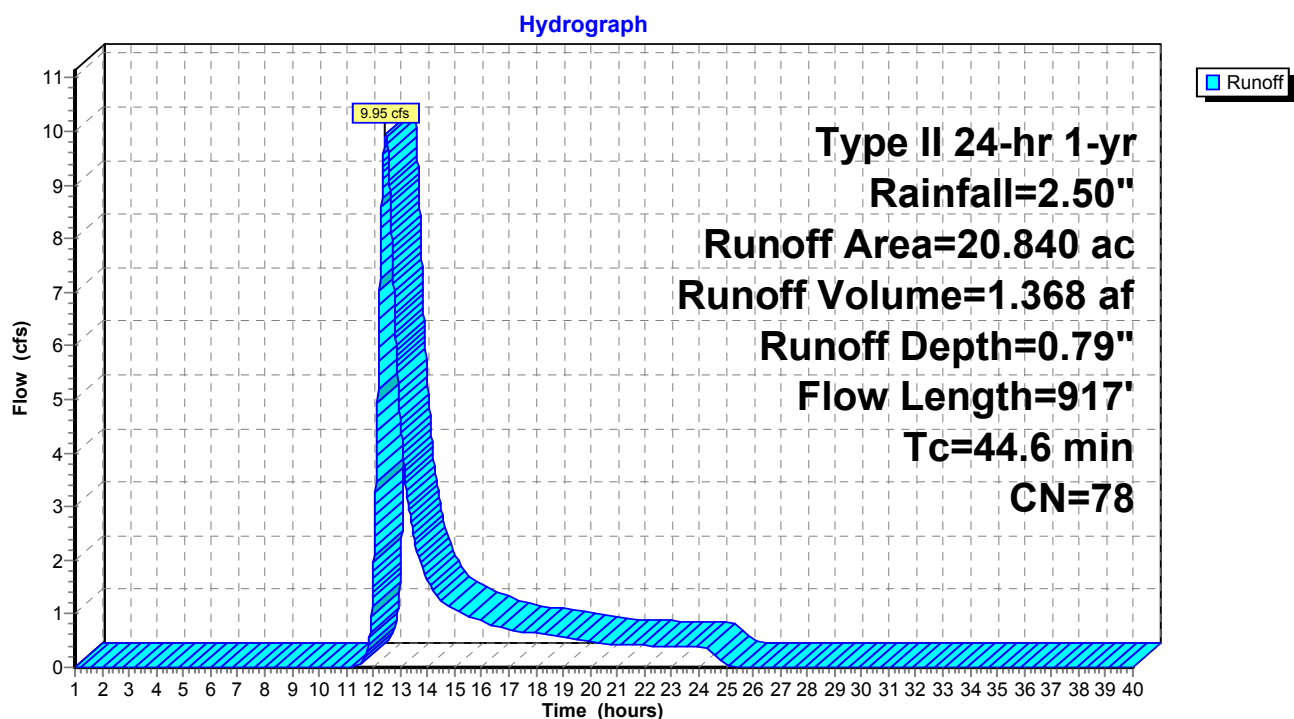
Runoff = 9.95 cfs @ 12.44 hrs, Volume= 1.368 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
20.840	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.6	917	0.0050	0.3		Lag/CN Method,

Subcatchment W135: W135

Subcatchment w136: w136

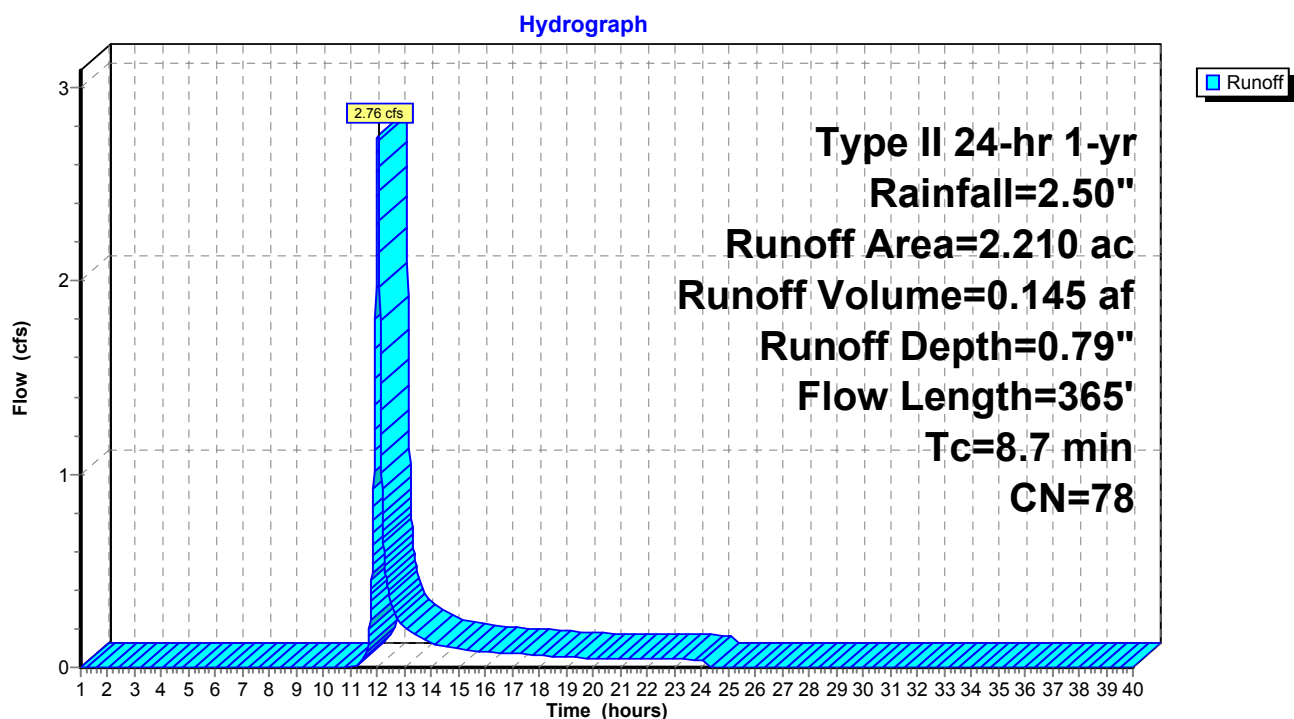
Runoff = 2.76 cfs @ 12.01 hrs, Volume= 0.145 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
2.210	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	365	0.0300	0.7		Lag/CN Method,

Subcatchment w136: w136

Subcatchment W137: W137

Runoff = 5.99 cfs @ 12.19 hrs, Volume= 0.562 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

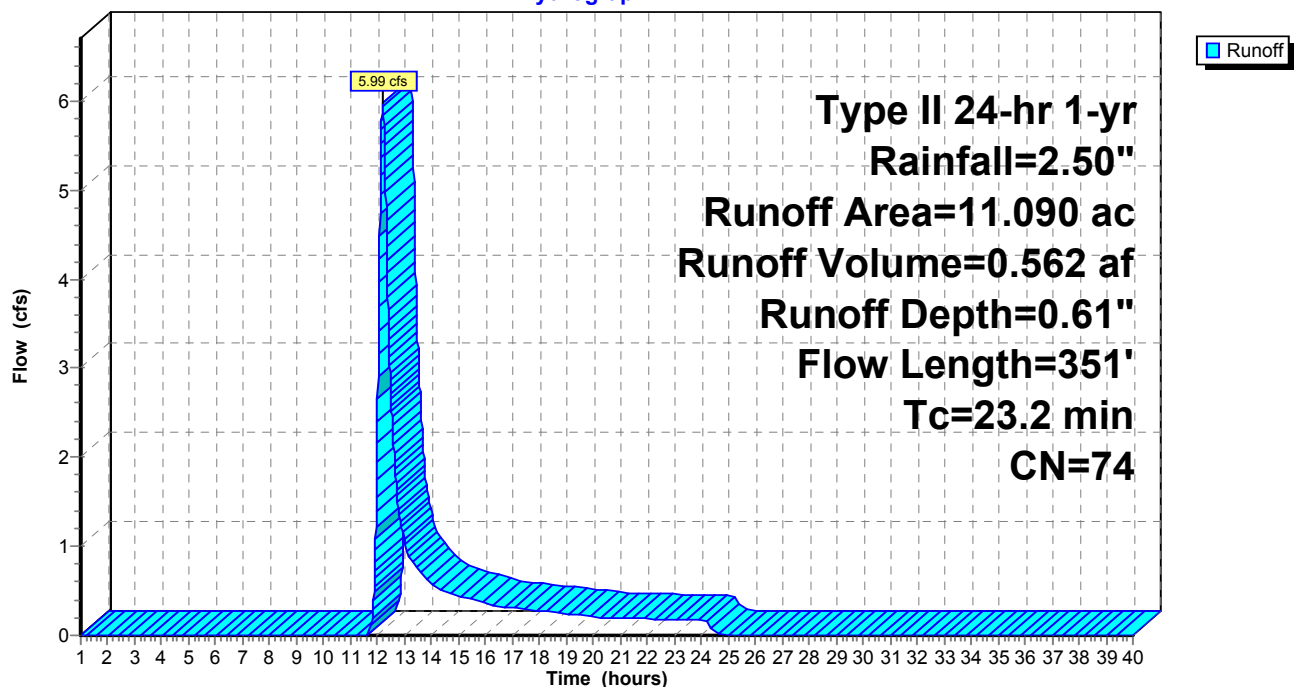
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
11.090	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	351	0.0050	0.3		Lag/CN Method,

Subcatchment W137: W137

Hydrograph



Subcatchment W138: W138

Runoff = 3.03 cfs @ 12.91 hrs, Volume= 0.677 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

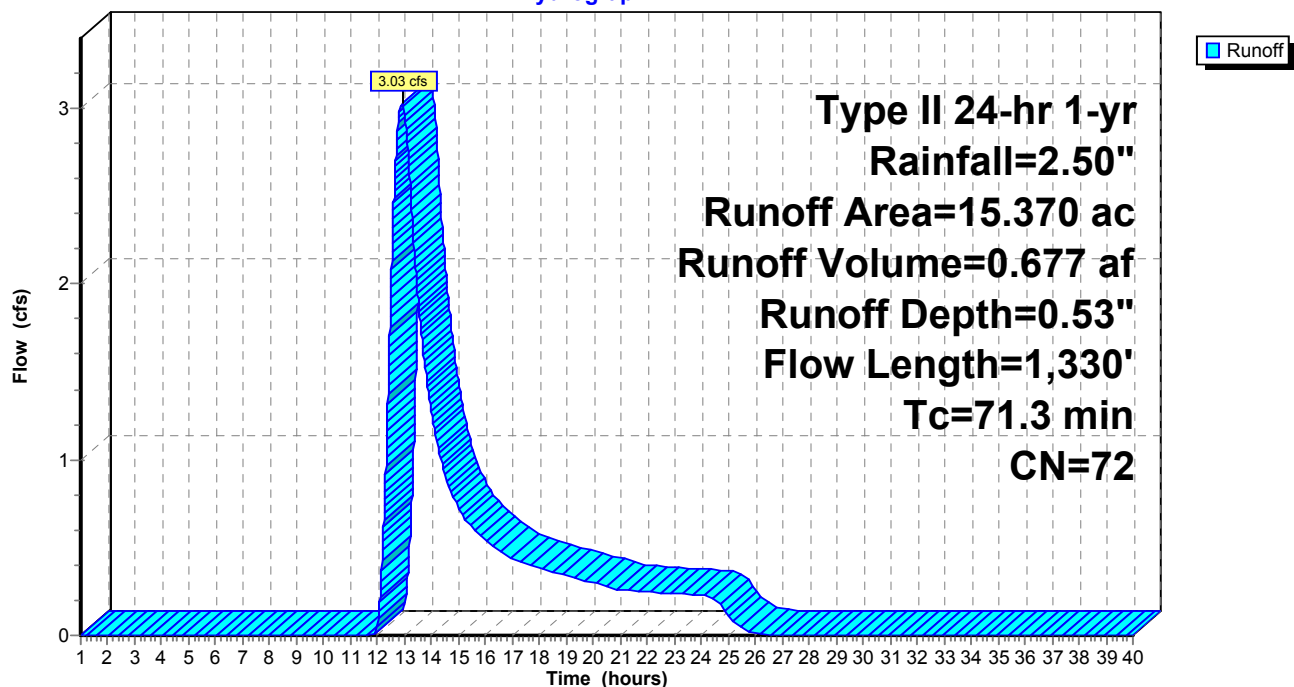
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
15.370	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.3	1,330	0.0050	0.3		Lag/CN Method,

Subcatchment W138: W138

Hydrograph



Subcatchment W139: W139

Runoff = 11.58 cfs @ 12.35 hrs, Volume= 1.352 af, Depth= 0.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

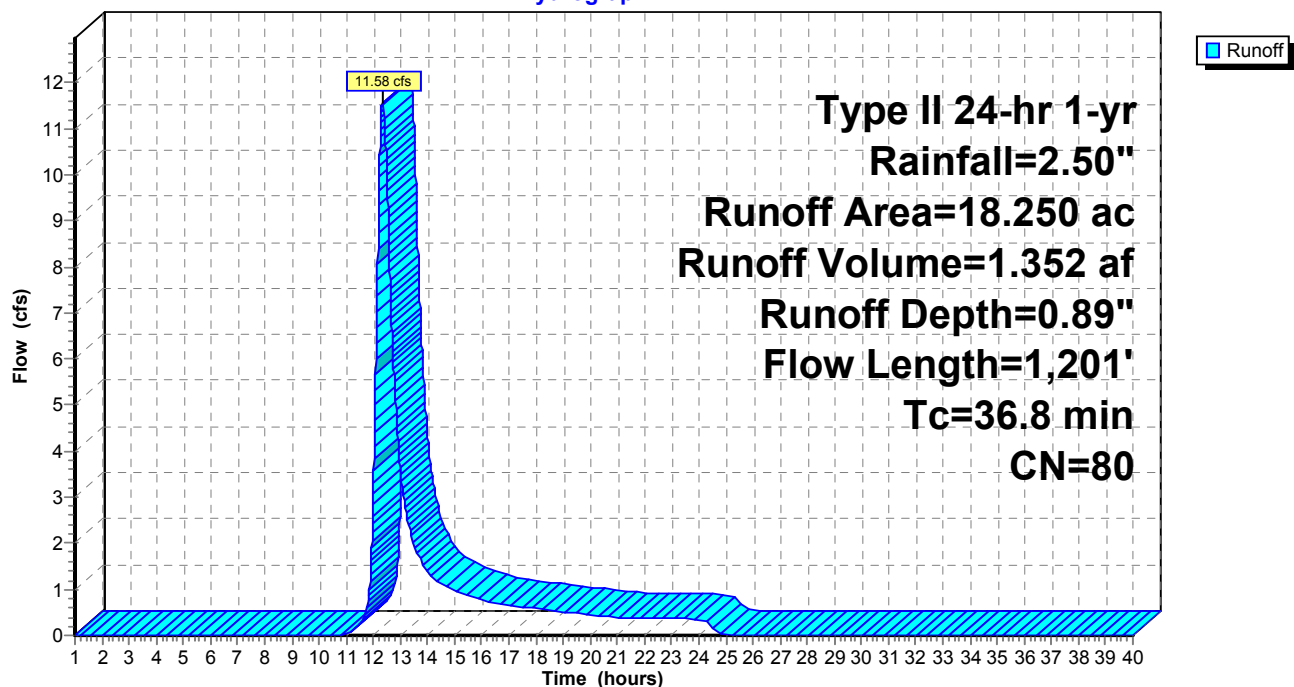
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.250	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	1,201	0.0100	0.5		Lag/CN Method,

Subcatchment W139: W139

Hydrograph



Subcatchment W14: W14

Runoff = 0.49 cfs @ 11.92 hrs, Volume= 0.020 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

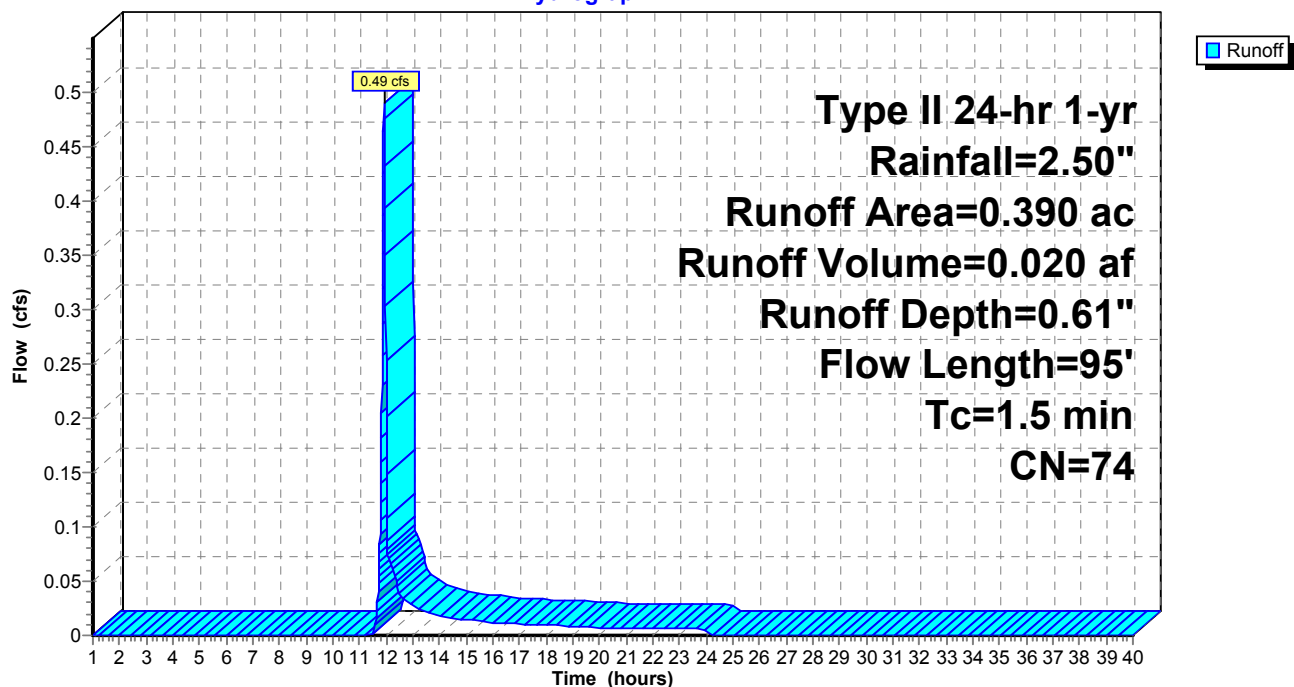
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
0.390	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	95	0.1500	1.1		Lag/CN Method,

Subcatchment W14: W14

Hydrograph



Subcatchment W140: W140

Runoff = 0.01 cfs @ 14.88 hrs, Volume= 0.012 af, Depth= 0.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

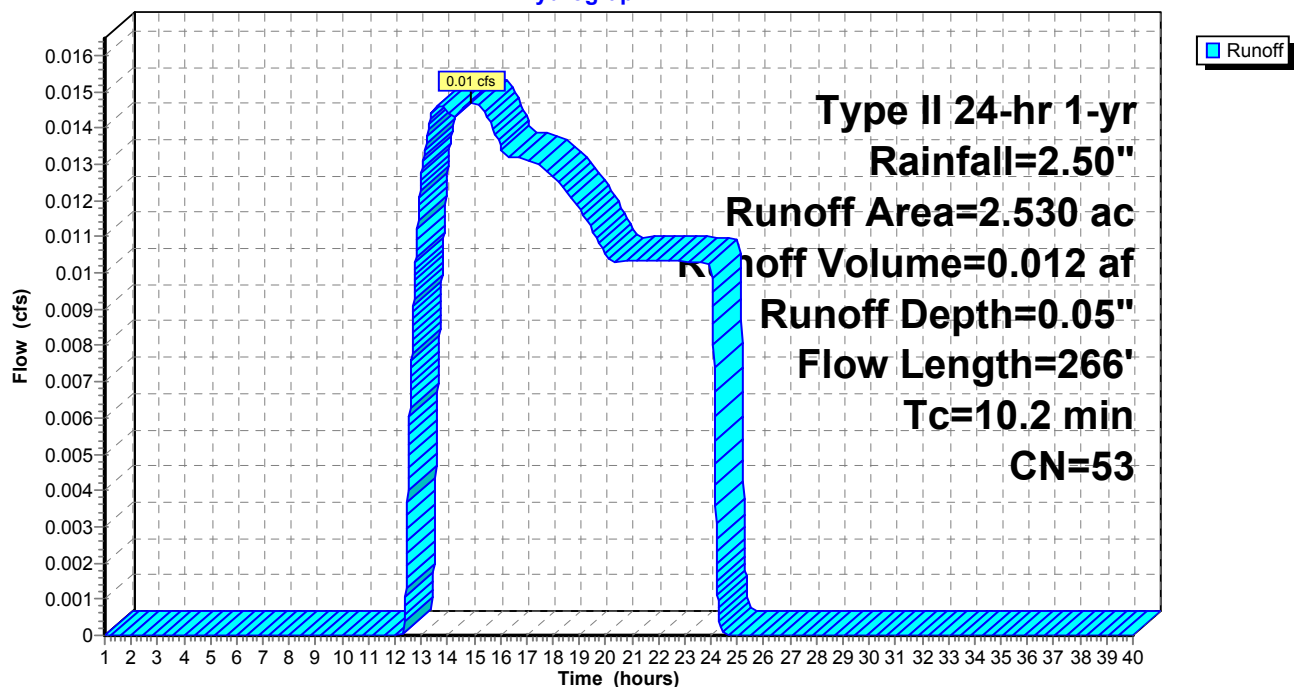
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
2.530	53	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	266	0.0500	0.4		Lag/CN Method,

Subcatchment W140: W140

Hydrograph



Subcatchment W141: W141

Runoff = 11.56 cfs @ 12.11 hrs, Volume= 0.961 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

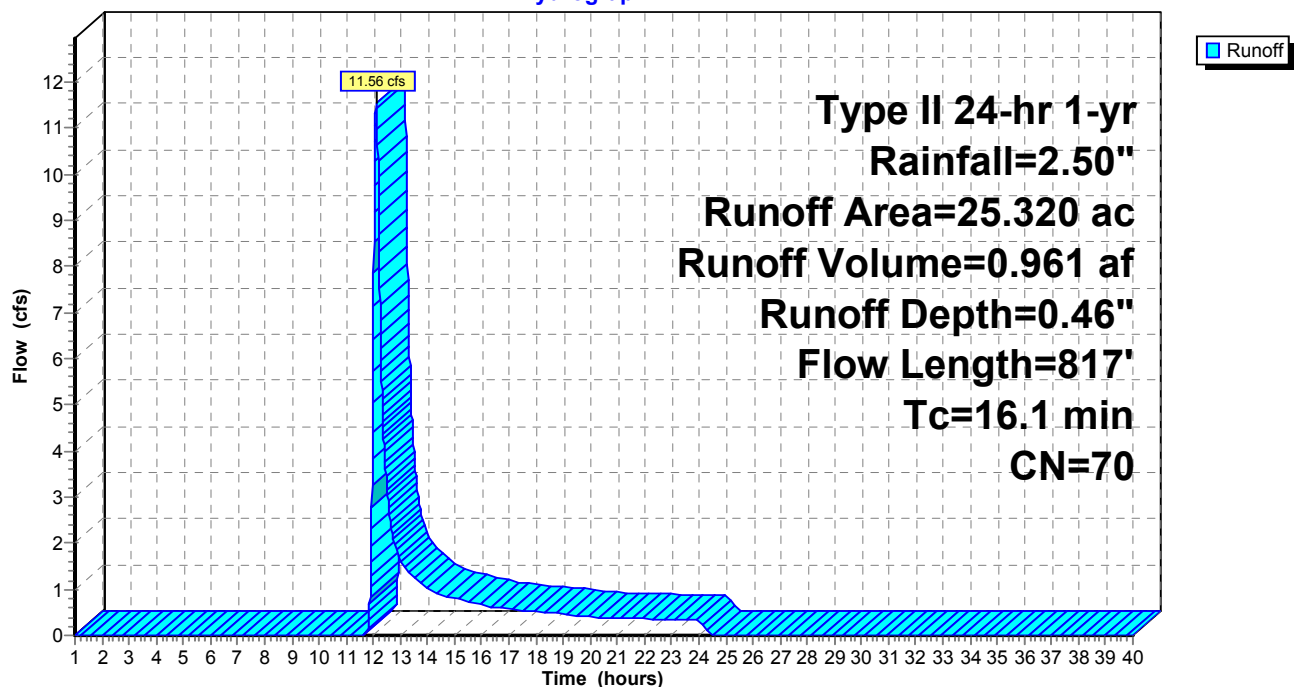
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
25.320	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	817	0.0500	0.8		Lag/CN Method,

Subcatchment W141: W141

Hydrograph



Subcatchment W142: W142

Runoff = 7.53 cfs @ 12.11 hrs, Volume= 0.561 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

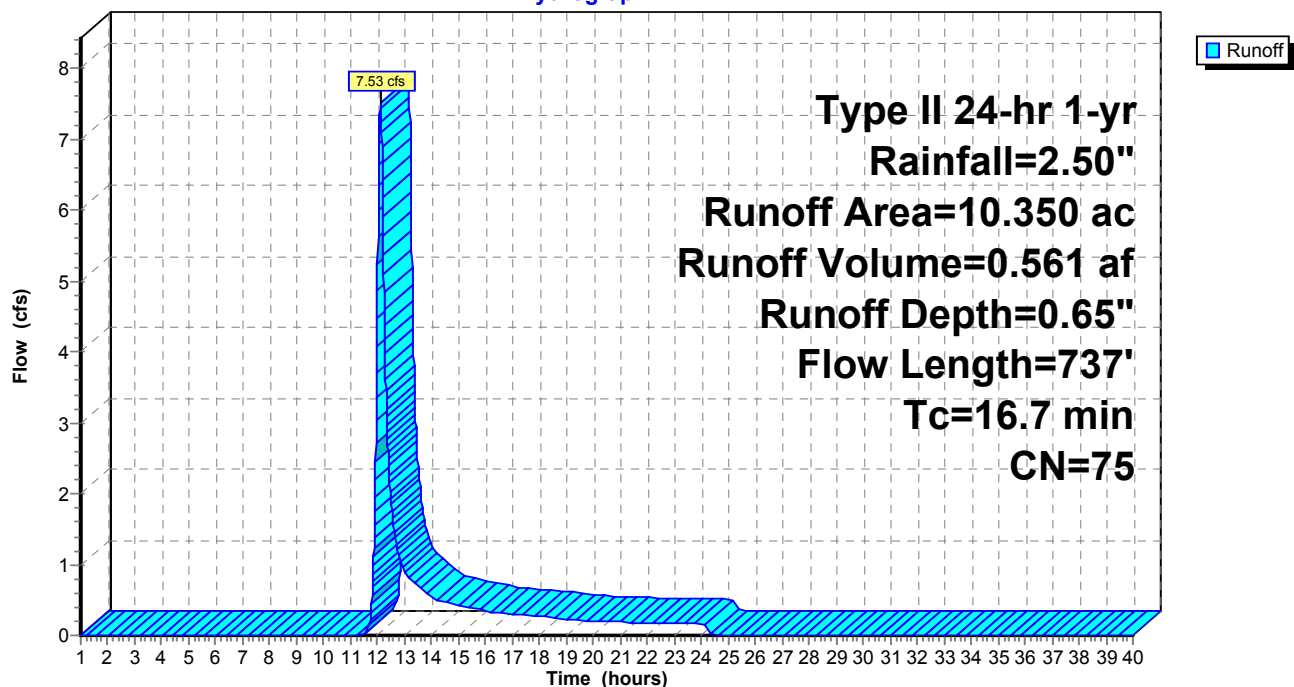
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
10.350	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	737	0.0300	0.7		Lag/CN Method,

Subcatchment W142: W142

Hydrograph



Subcatchment W143: W143

Runoff = 4.68 cfs @ 12.09 hrs, Volume= 0.324 af, Depth= 0.84"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

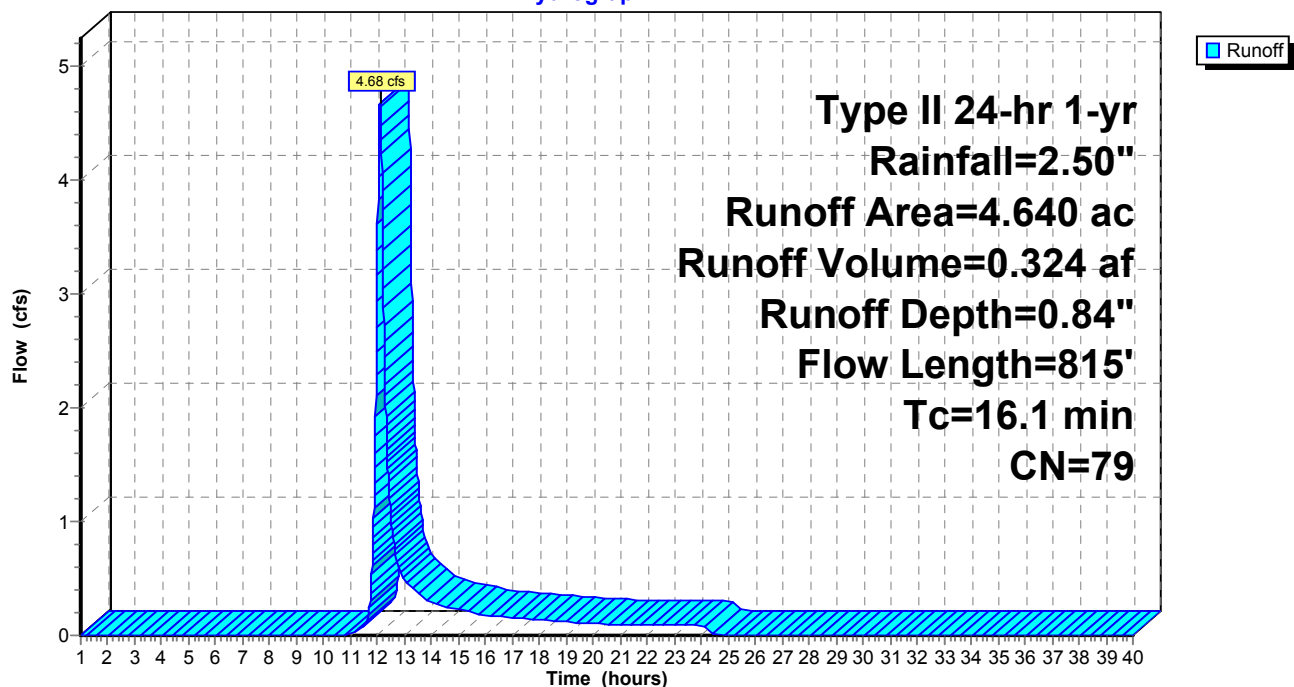
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.640	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	815	0.0300	0.8		Lag/CN Method,

Subcatchment W143: W143

Hydrograph



Subcatchment W144: W144

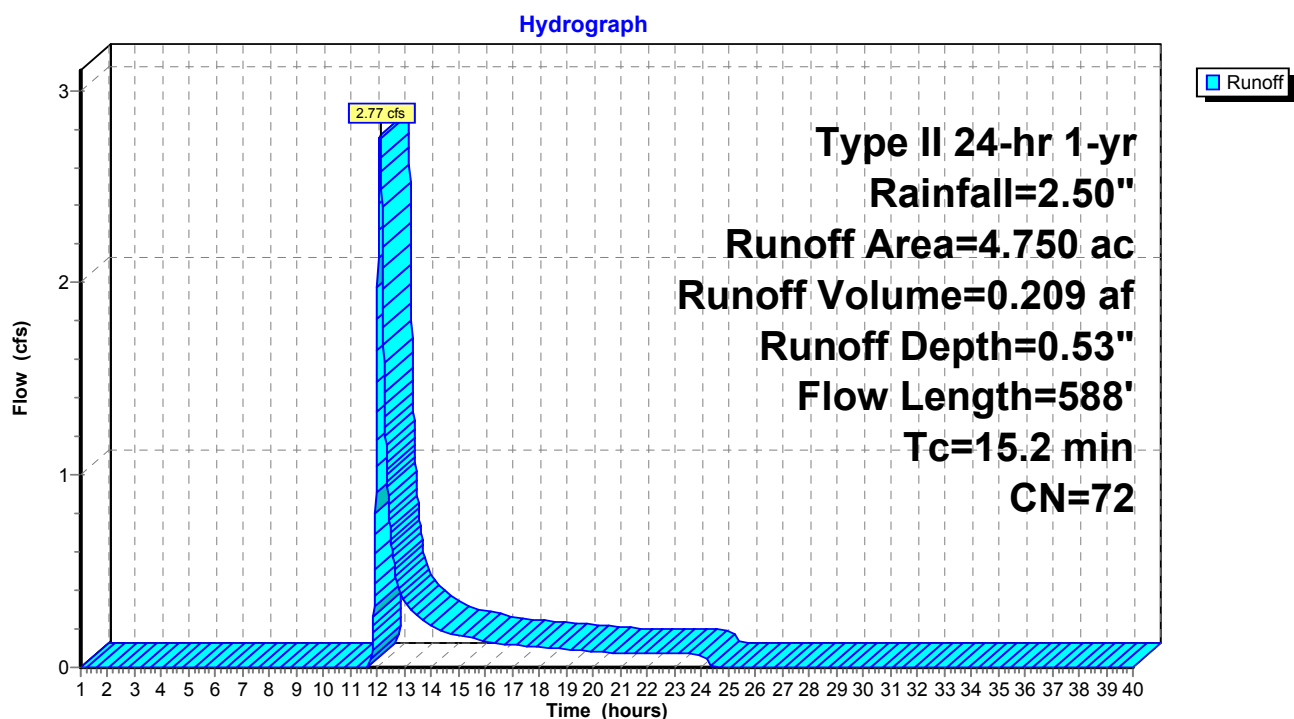
Runoff = 2.77 cfs @ 12.10 hrs, Volume= 0.209 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.750	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	588	0.0300	0.6		Lag/CN Method,

Subcatchment W144: W144

Subcatchment W145: W145

Runoff = 5.46 cfs @ 12.18 hrs, Volume= 0.546 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

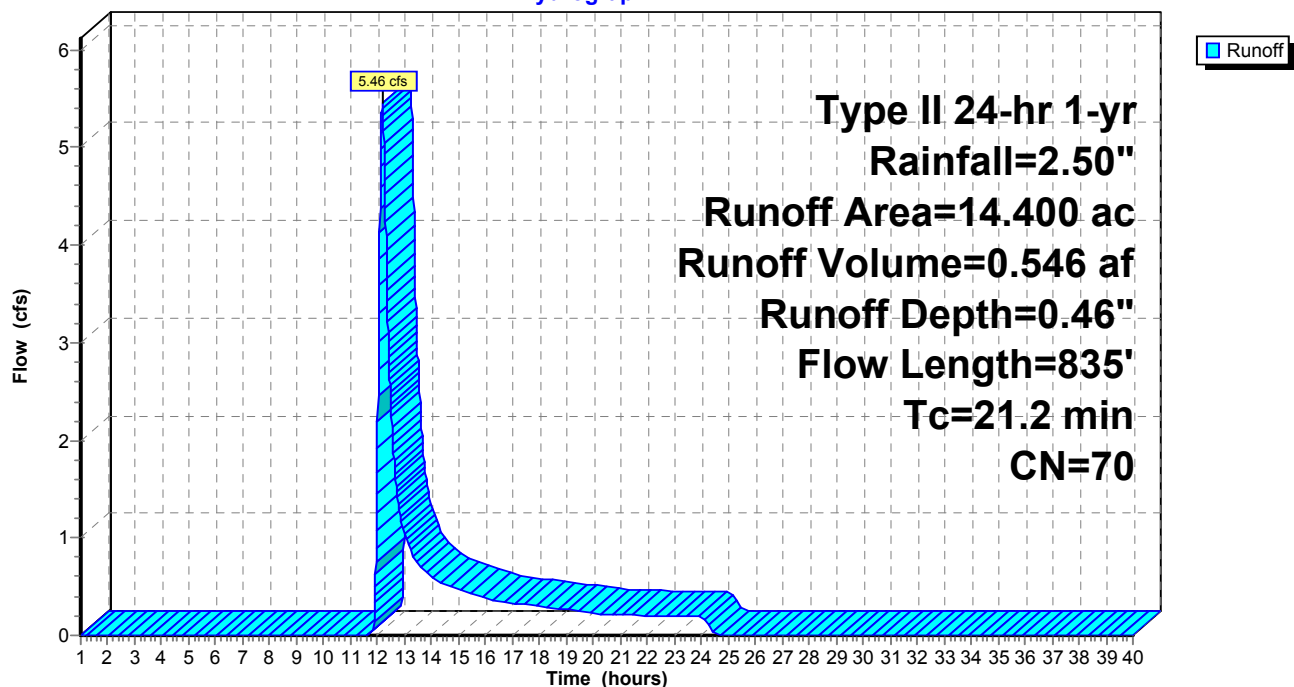
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
14.400	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	835	0.0300	0.7		Lag/CN Method,

Subcatchment W145: W145

Hydrograph



Subcatchment W146: W146

Runoff = 6.12 cfs @ 12.23 hrs, Volume= 0.768 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

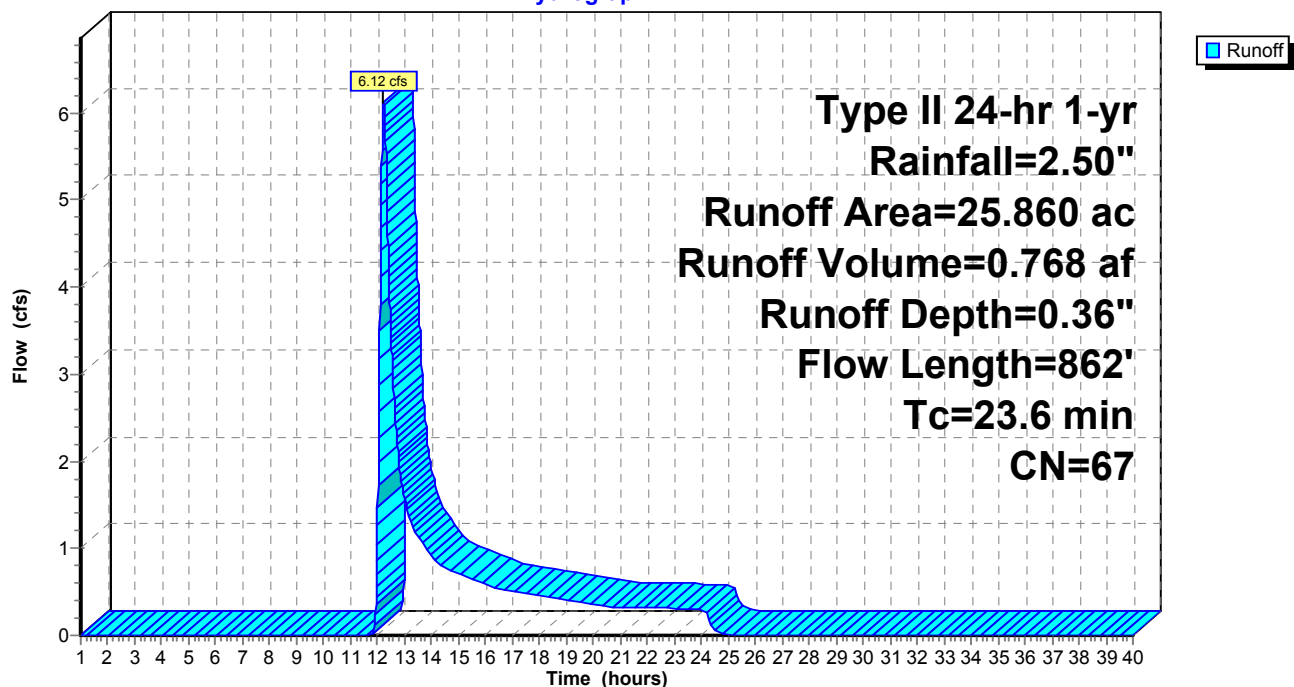
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
25.860	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.6	862	0.0300	0.6		Lag/CN Method,

Subcatchment W146: W146

Hydrograph



Subcatchment W150: W150

Runoff = 2.99 cfs @ 12.34 hrs, Volume= 0.704 af, Depth= 0.20"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

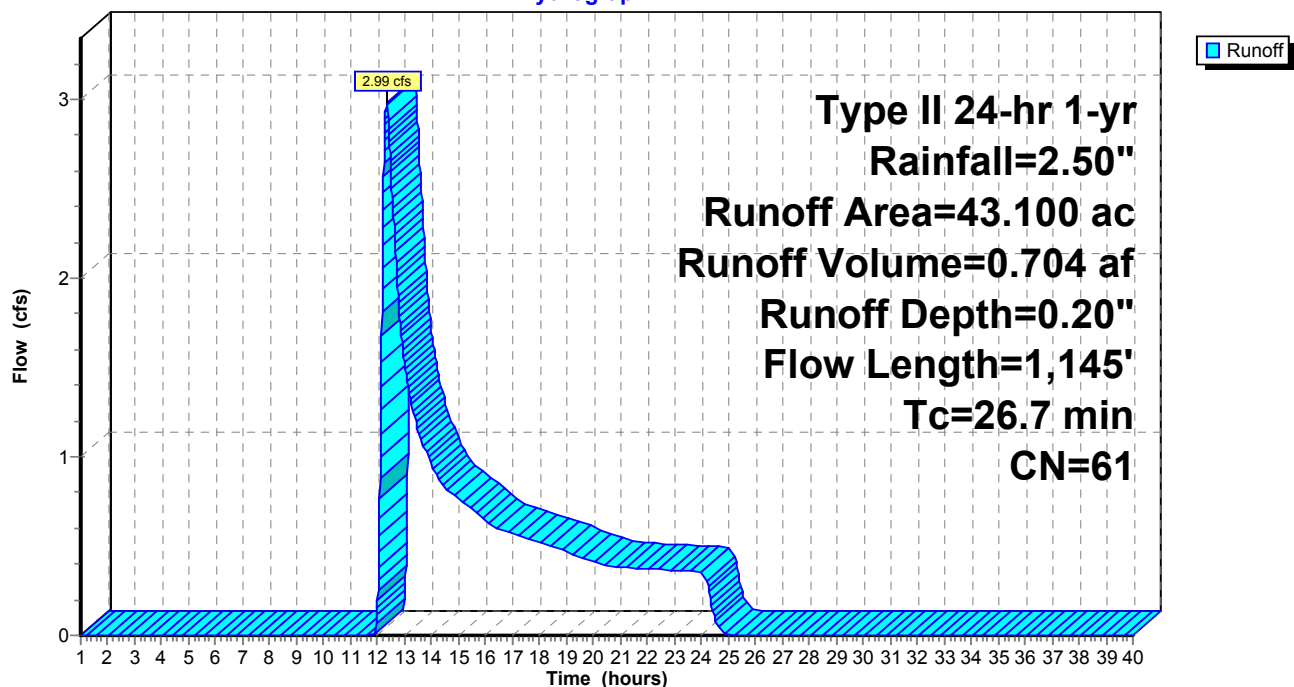
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
43.100	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,145	0.0500	0.7		Lag/CN Method,

Subcatchment W150: W150

Hydrograph



Subcatchment W2: W2

Runoff = 0.02 cfs @ 24.00 hrs, Volume= 0.011 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

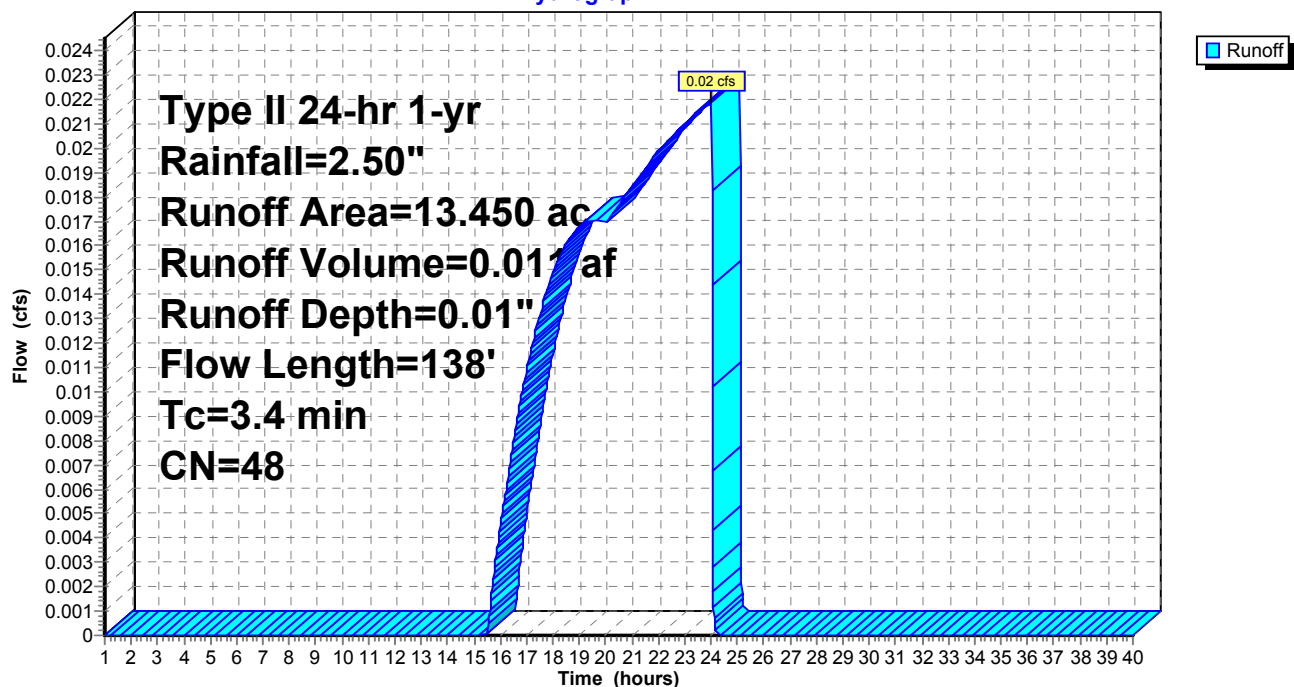
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
13.450	48	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	138	0.2000	0.7		Lag/CN Method,

Subcatchment W2: W2

Hydrograph



Subcatchment W30: W30

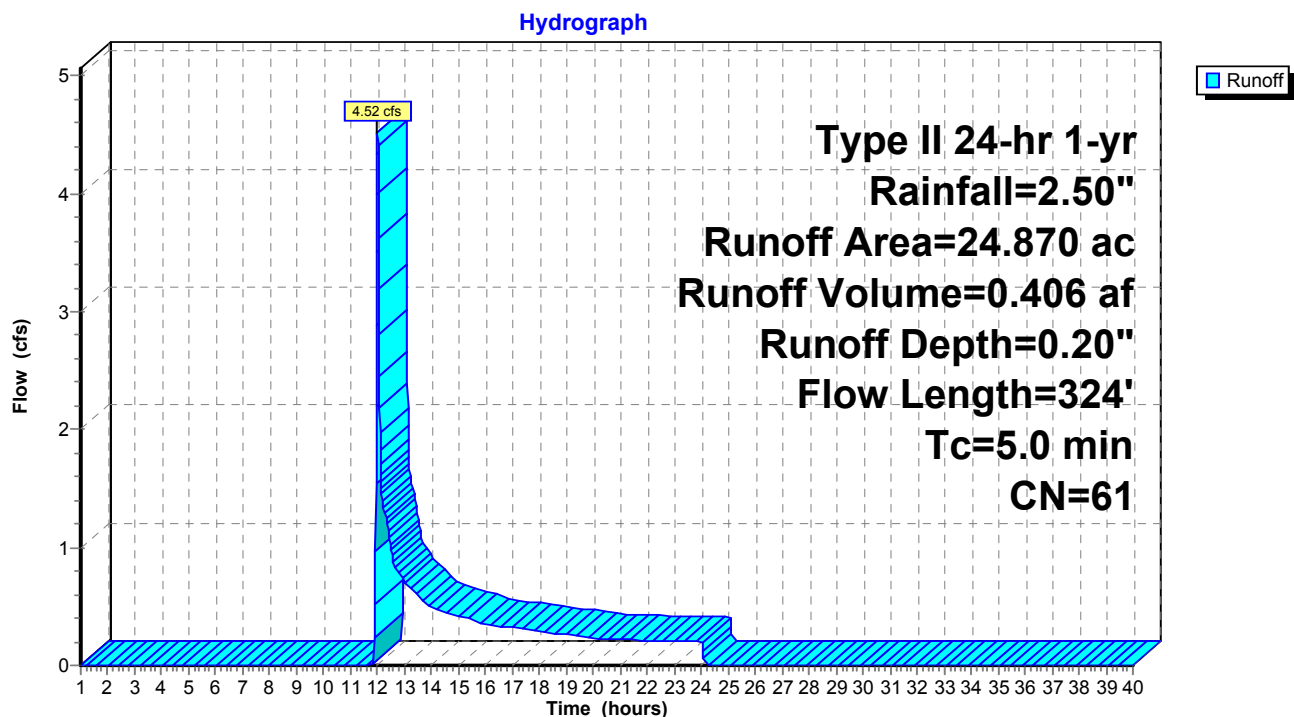
Runoff = 4.52 cfs @ 12.00 hrs, Volume= 0.406 af, Depth= 0.20"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
24.870	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	324	0.1900	1.1		Lag/CN Method,

Subcatchment W30: W30

Subcatchment W31: W31

Runoff = 12.57 cfs @ 12.09 hrs, Volume= 1.179 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

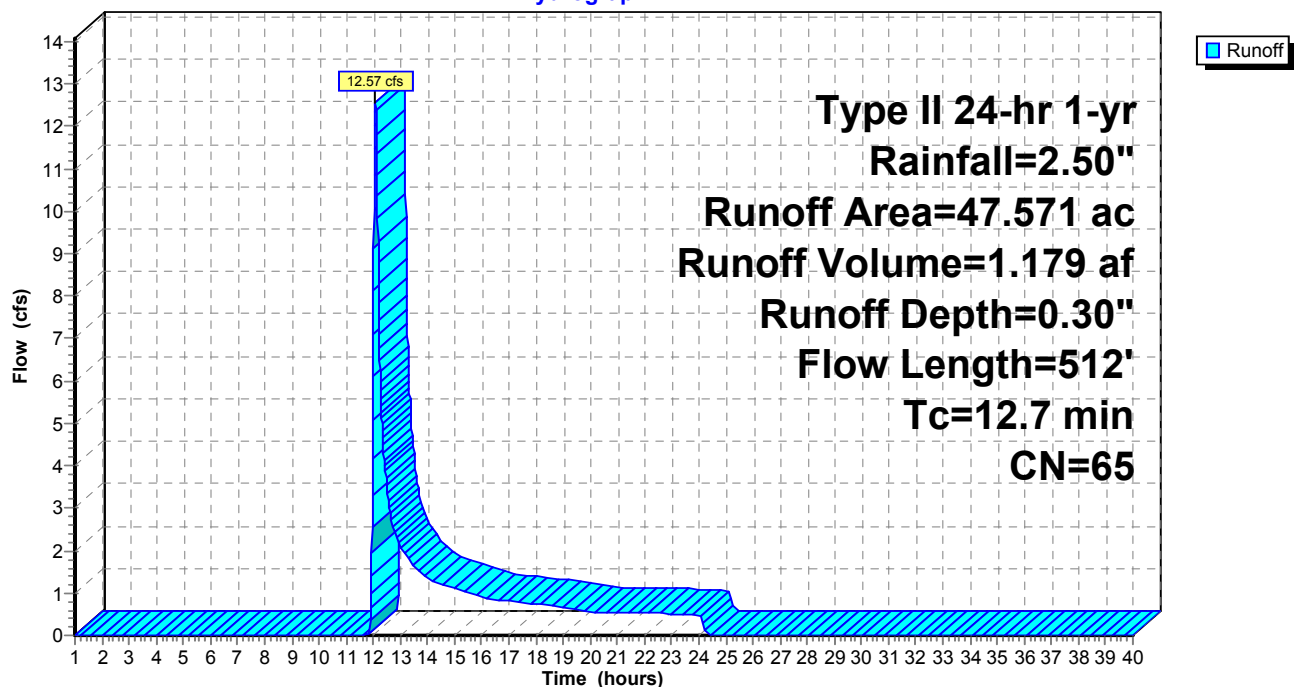
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
47.571	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	512	0.0500	0.7		Lag/CN Method,

Subcatchment W31: W31

Hydrograph



Subcatchment W32: W32

Runoff = 20.94 cfs @ 12.04 hrs, Volume= 1.618 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

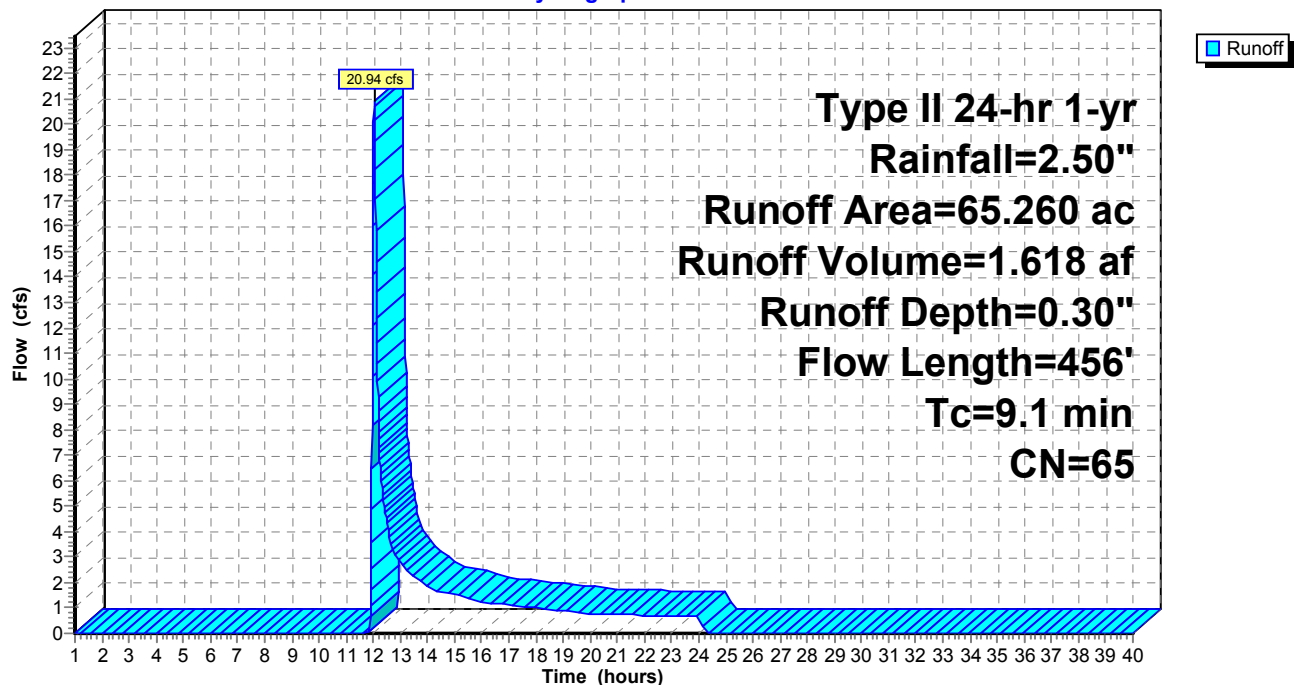
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
65.260	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	456	0.0800	0.8		Lag/CN Method,

Subcatchment W32: W32

Hydrograph



Subcatchment W33: W33

Runoff = 1.78 cfs @ 11.99 hrs, Volume= 0.171 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

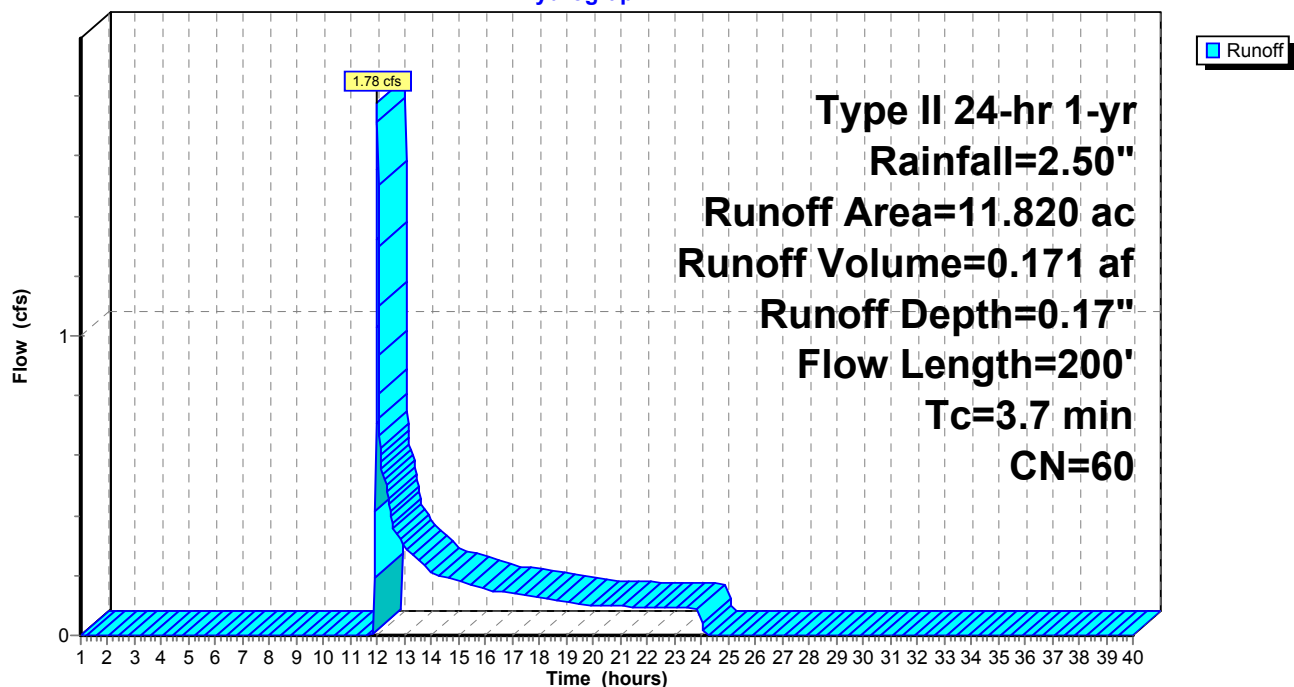
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
11.820	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	200	0.1700	0.9		Lag/CN Method,

Subcatchment W33: W33

Hydrograph



Subcatchment W34: W34

Runoff = 0.97 cfs @ 12.06 hrs, Volume= 0.167 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

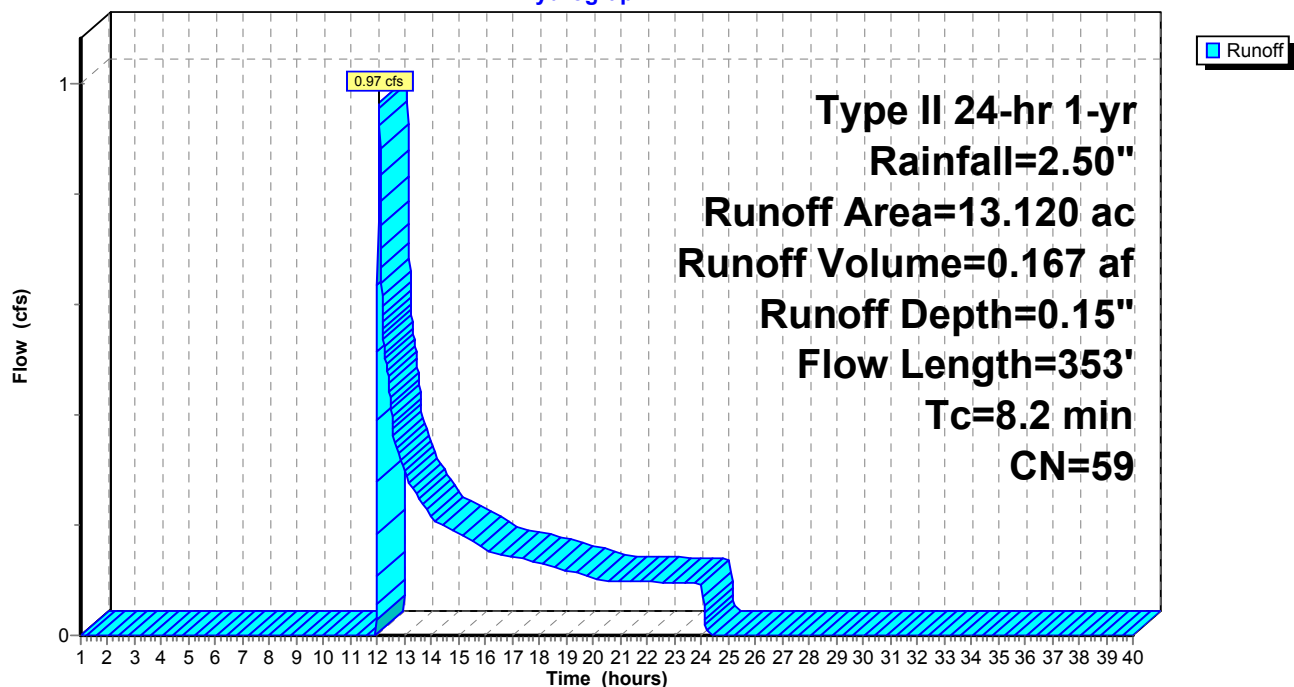
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
13.120	59	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	353	0.0900	0.7		Lag/CN Method,

Subcatchment W34: W34

Hydrograph



Subcatchment W35: W35

Runoff = 0.76 cfs @ 12.00 hrs, Volume= 0.075 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

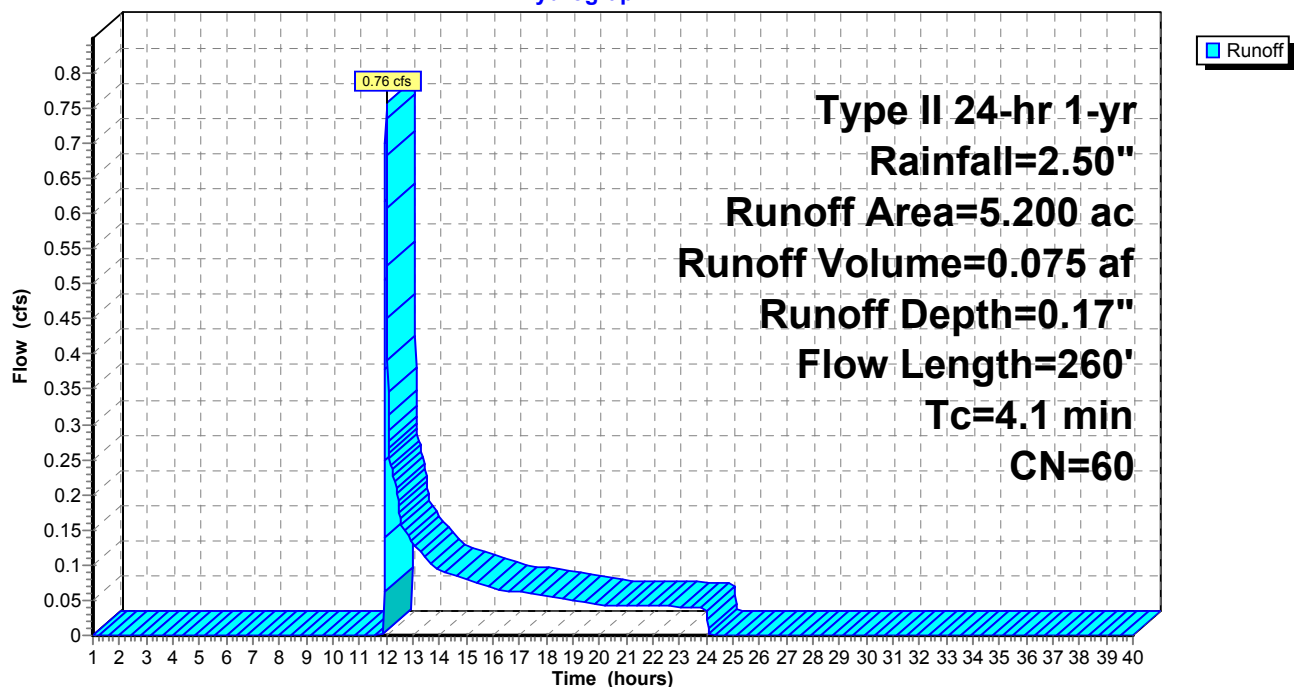
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.200	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	260	0.2100	1.1		Lag/CN Method,

Subcatchment W35: W35

Hydrograph



Subcatchment W36: W36

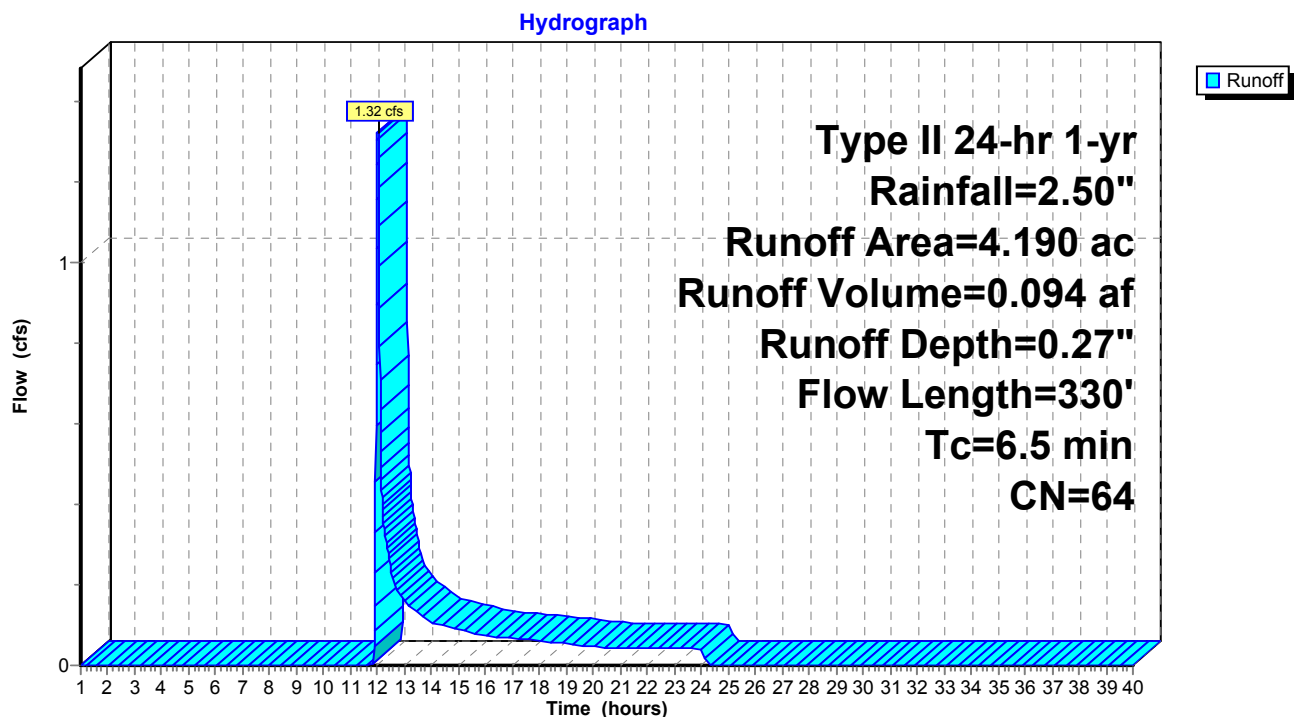
Runoff = 1.32 cfs @ 12.01 hrs, Volume= 0.094 af, Depth= 0.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.190	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	330	0.1000	0.9		Lag/CN Method,

Subcatchment W36: W36

Subcatchment W37: W37

Runoff = 0.19 cfs @ 12.08 hrs, Volume= 0.047 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

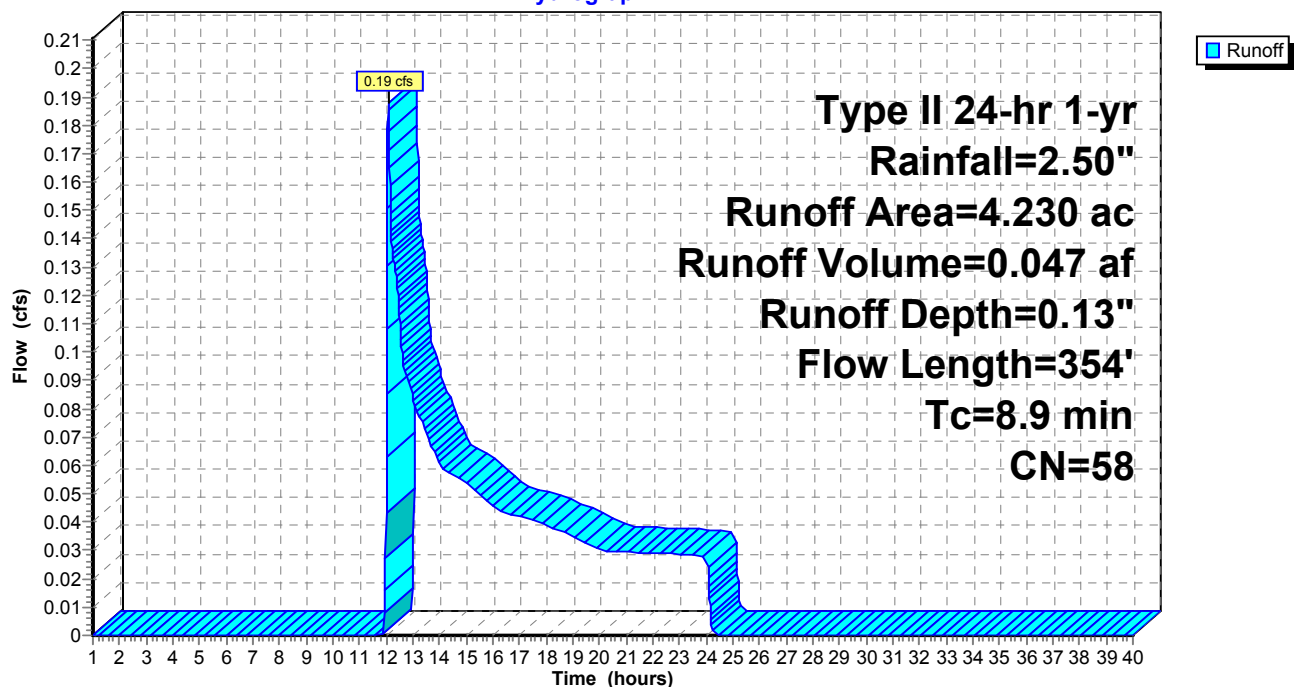
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.230	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	354	0.0800	0.7		Lag/CN Method,

Subcatchment W37: W37

Hydrograph



Subcatchment W38: W38

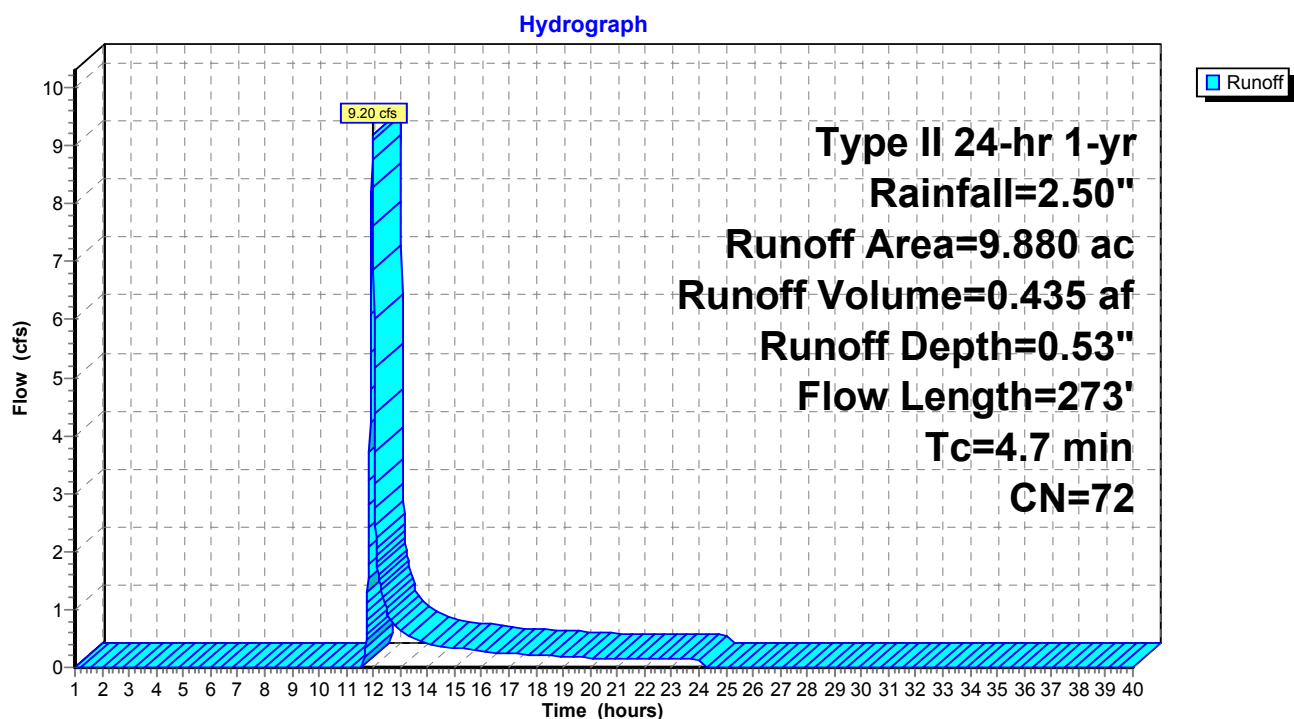
Runoff = 9.20 cfs @ 11.97 hrs, Volume= 0.435 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.880	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	273	0.0900	1.0		Lag/CN Method,

Subcatchment W38: W38

Subcatchment W39: W39

Runoff = 1.72 cfs @ 12.06 hrs, Volume= 0.208 af, Depth= 0.20"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

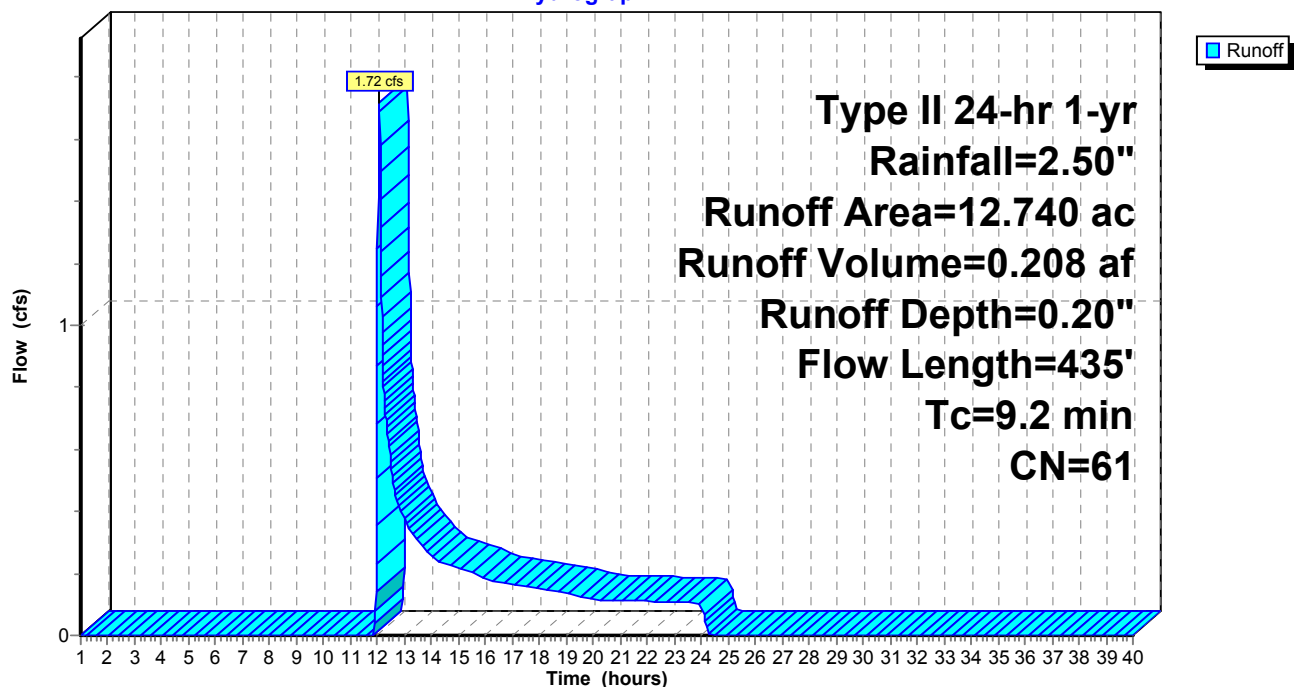
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
12.740	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	435	0.0900	0.8		Lag/CN Method,

Subcatchment W39: W39

Hydrograph



Subcatchment W40: W40

Runoff = 29.96 cfs @ 11.95 hrs, Volume= 1.296 af, Depth= 0.84"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

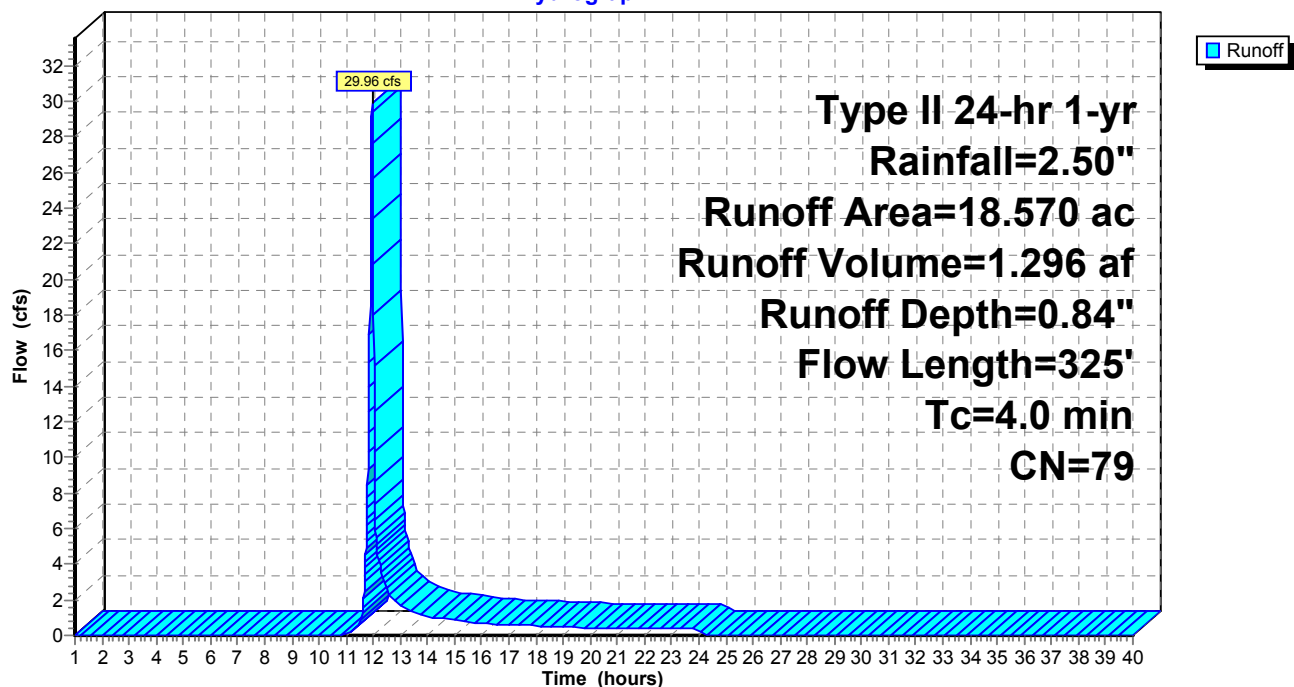
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.570	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	325	0.1100	1.3		Lag/CN Method,

Subcatchment W40: W40

Hydrograph



Subcatchment W41: W41

Runoff = 4.96 cfs @ 12.00 hrs, Volume= 0.263 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

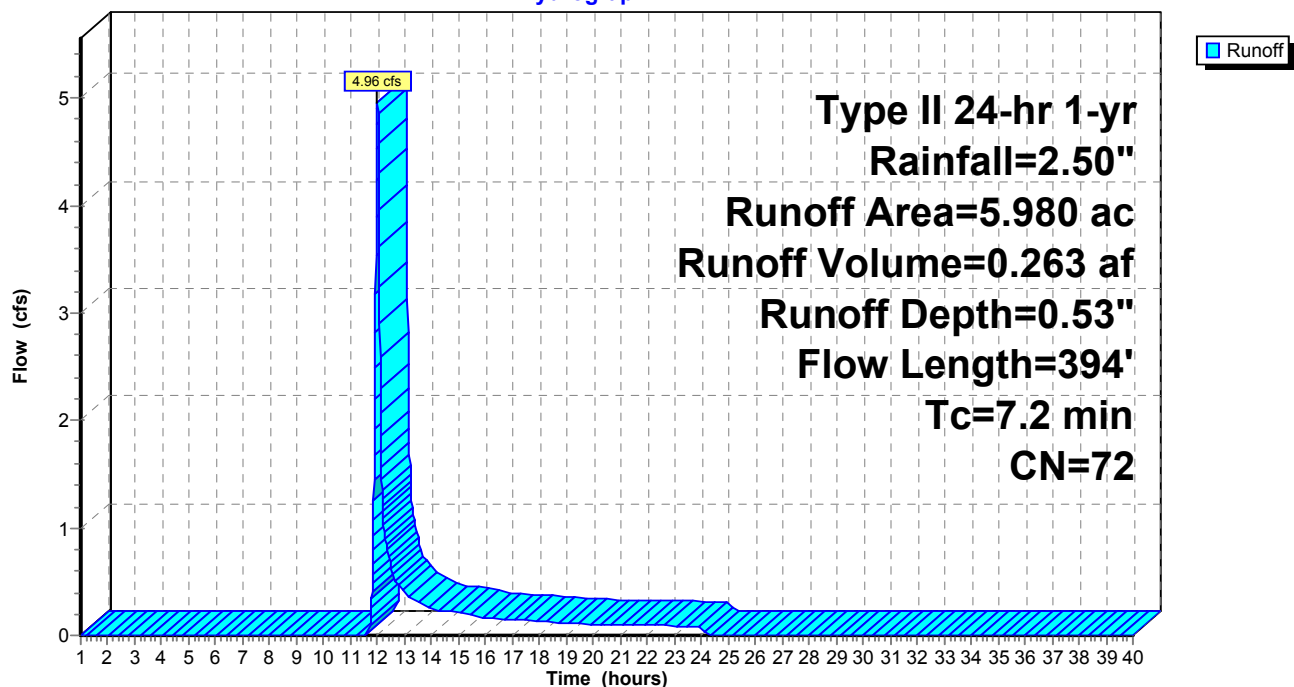
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.980	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	394	0.0700	0.9		Lag/CN Method,

Subcatchment W41: W41

Hydrograph



Subcatchment W42: W42

Runoff = 4.26 cfs @ 11.95 hrs, Volume= 0.194 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

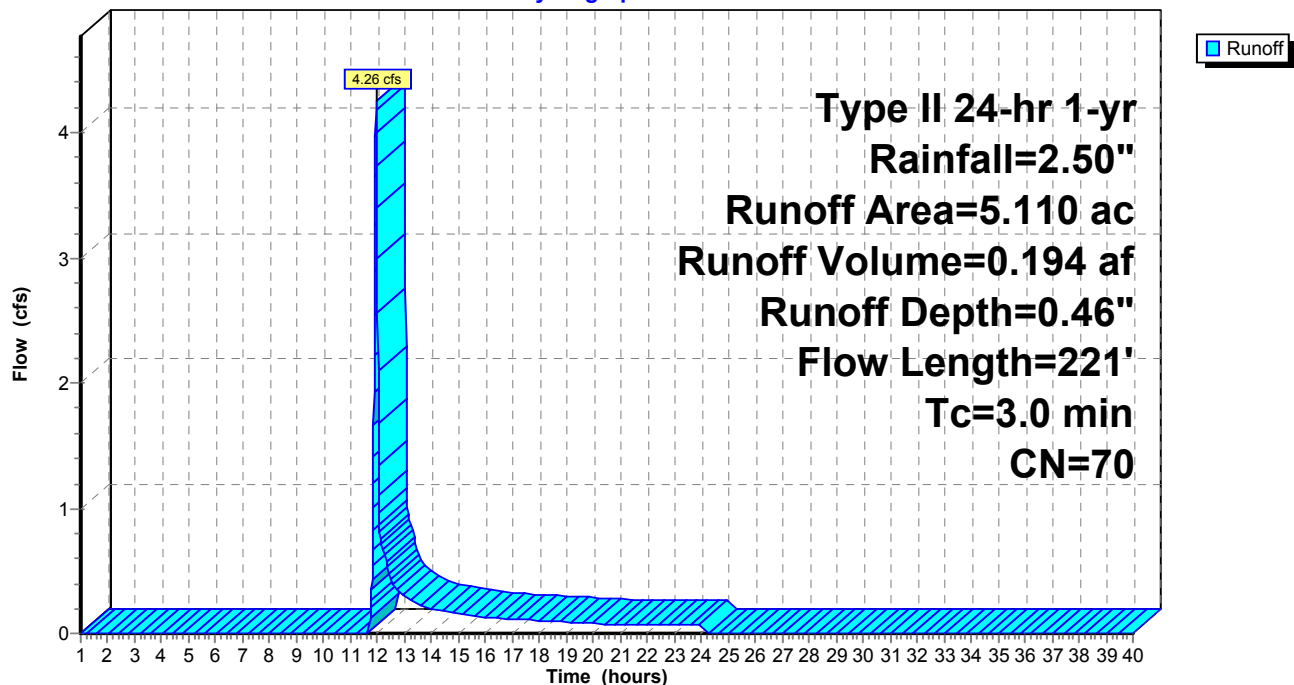
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.110	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	221	0.1800	1.2		Lag/CN Method,

Subcatchment W42: W42

Hydrograph



Subcatchment W43: W43

Runoff = 2.13 cfs @ 12.06 hrs, Volume= 0.181 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

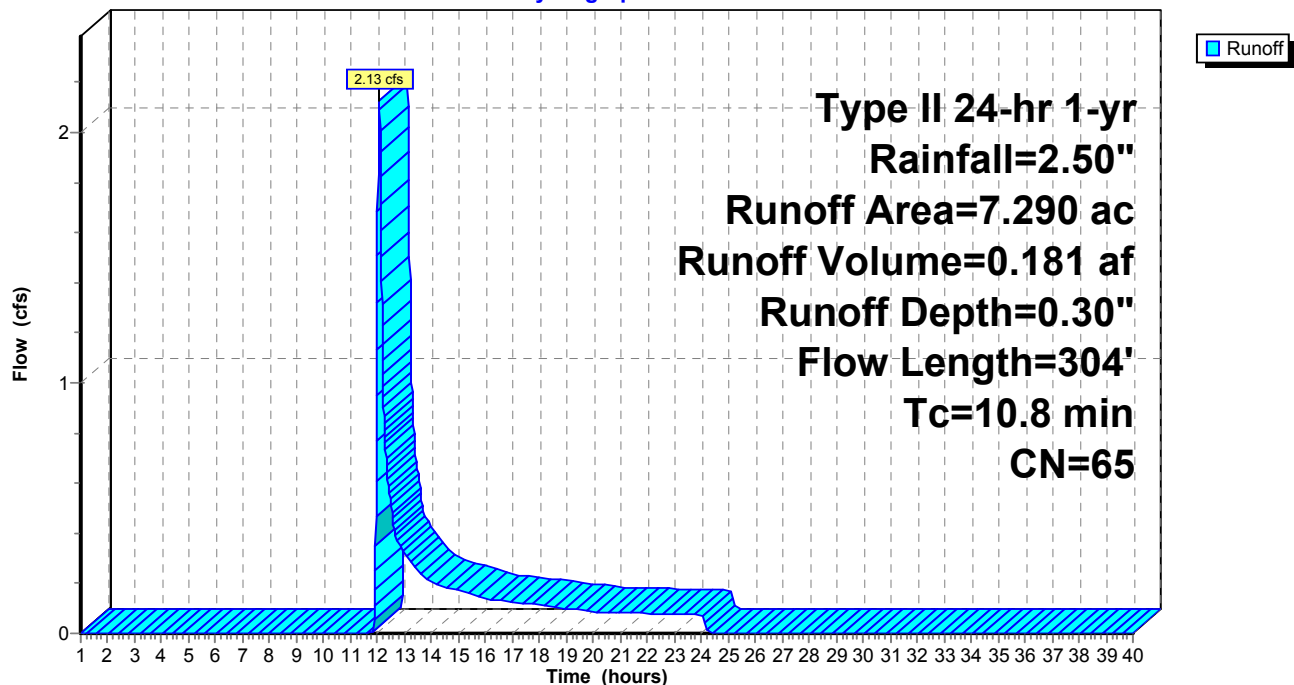
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.290	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	304	0.0300	0.5		Lag/CN Method,

Subcatchment W43: W43

Hydrograph



Subcatchment W44: W44

Runoff = 2.16 cfs @ 12.15 hrs, Volume= 0.224 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

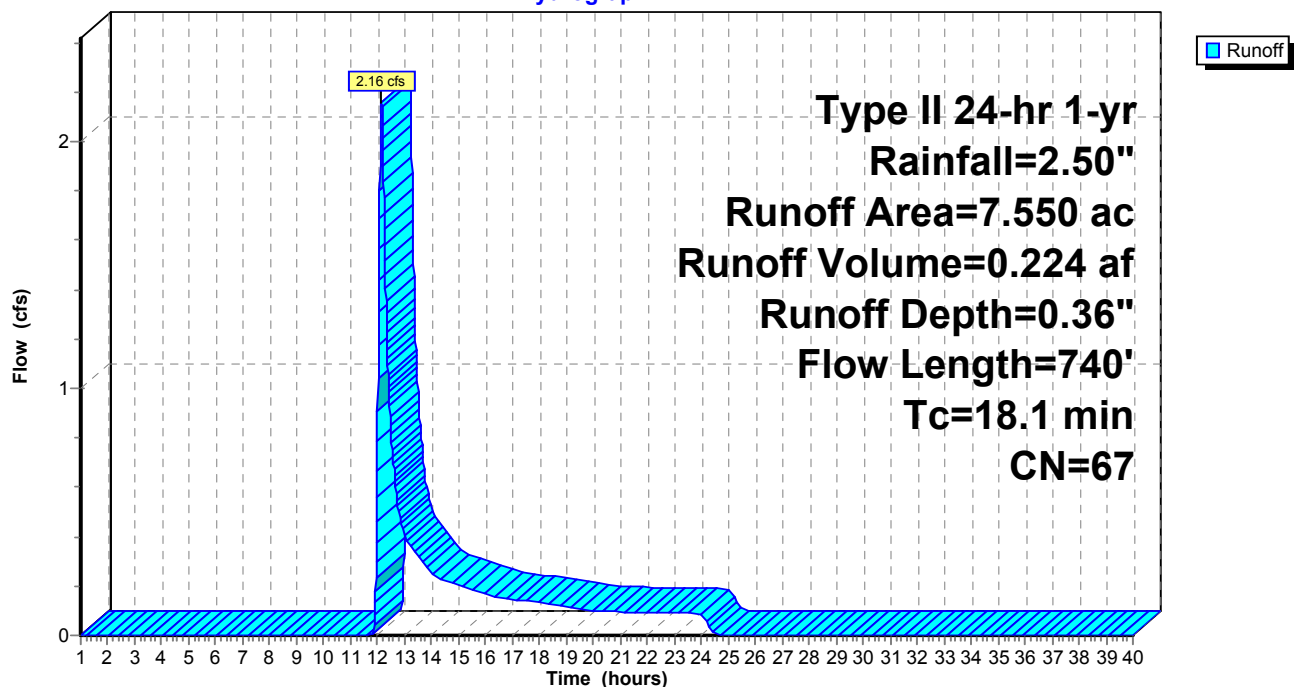
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.550	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.1	740	0.0400	0.7		Lag/CN Method,

Subcatchment W44: W44

Hydrograph



Subcatchment W45: W45

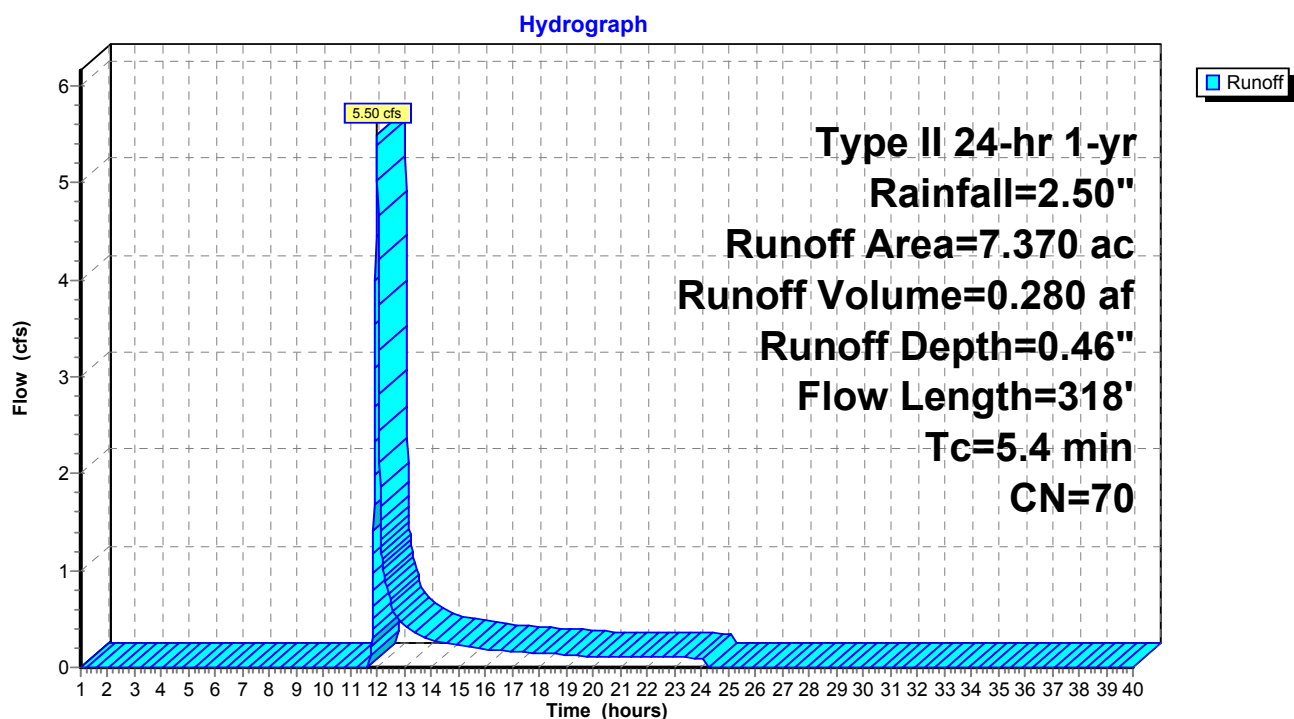
Runoff = 5.50 cfs @ 11.98 hrs, Volume= 0.280 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.370	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.4	318	0.1000	1.0		Lag/CN Method,

Subcatchment W45: W45

Subcatchment W46: W46

Runoff = 7.42 cfs @ 12.16 hrs, Volume= 0.663 af, Depth= 0.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

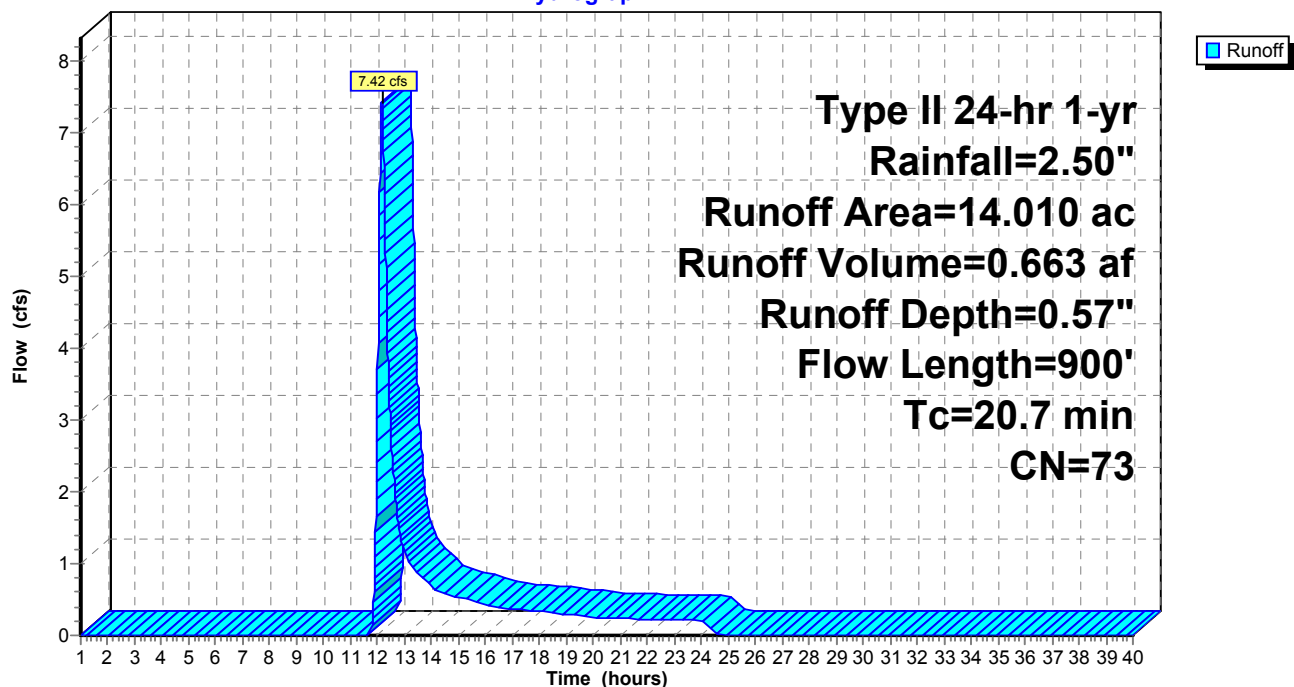
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
14.010	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.7	900	0.0300	0.7		Lag/CN Method,

Subcatchment W46: W46

Hydrograph



Subcatchment W47: W47

Runoff = 2.93 cfs @ 12.17 hrs, Volume= 0.268 af, Depth= 0.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

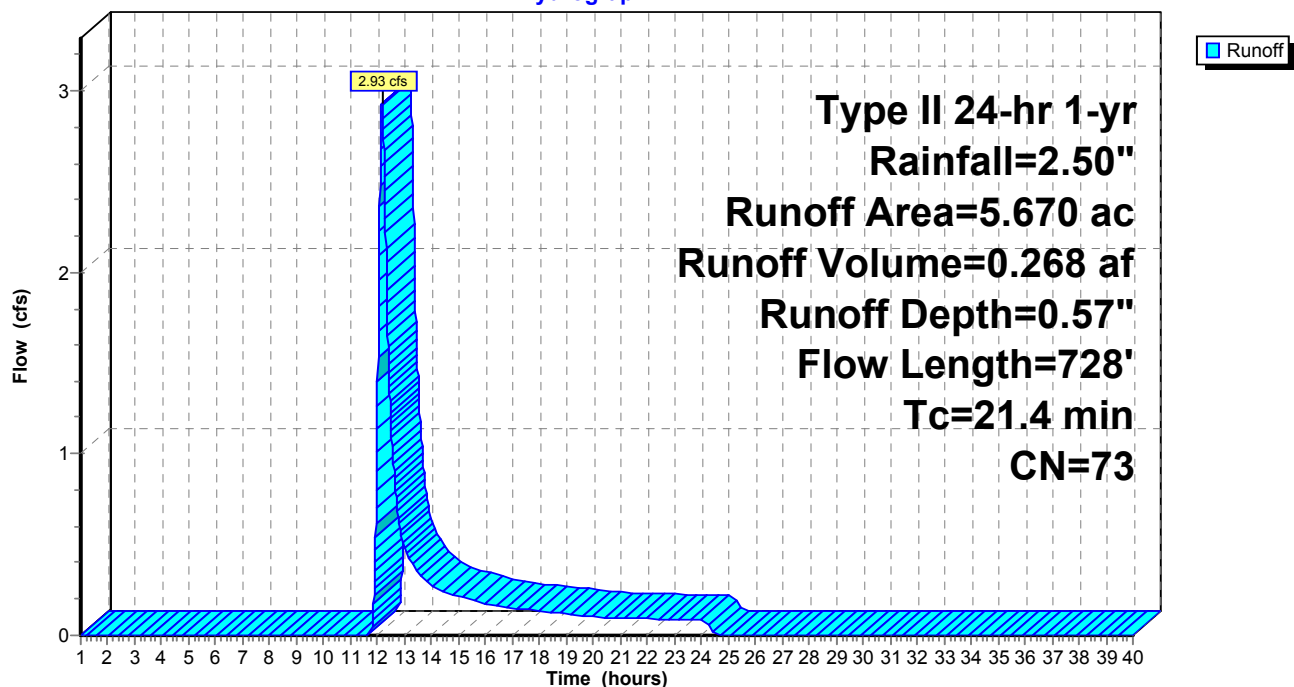
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.670	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.4	728	0.0200	0.6		Lag/CN Method,

Subcatchment W47: W47

Hydrograph



Subcatchment W48: W48

Runoff = 1.44 cfs @ 12.02 hrs, Volume= 0.082 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

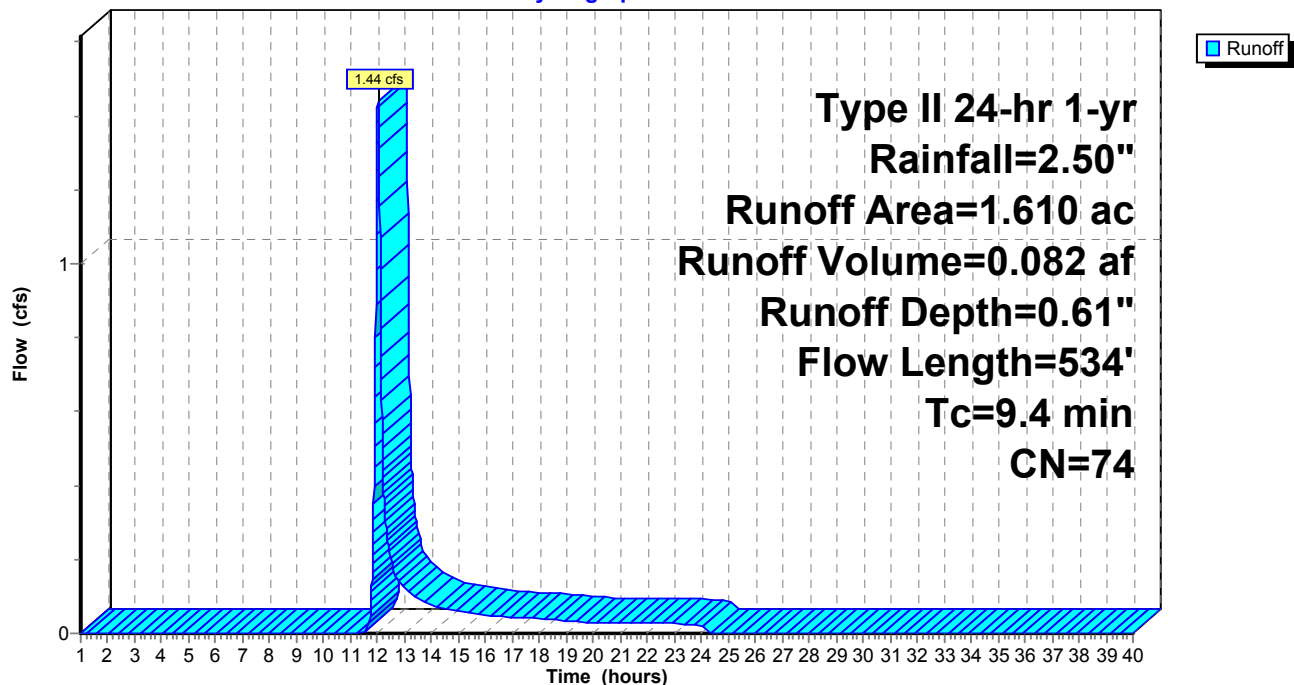
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
1.610	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	534	0.0600	0.9		Lag/CN Method,

Subcatchment W48: W48

Hydrograph



Subcatchment W49: W49

Runoff = 13.39 cfs @ 11.99 hrs, Volume= 0.653 af, Depth= 0.94"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

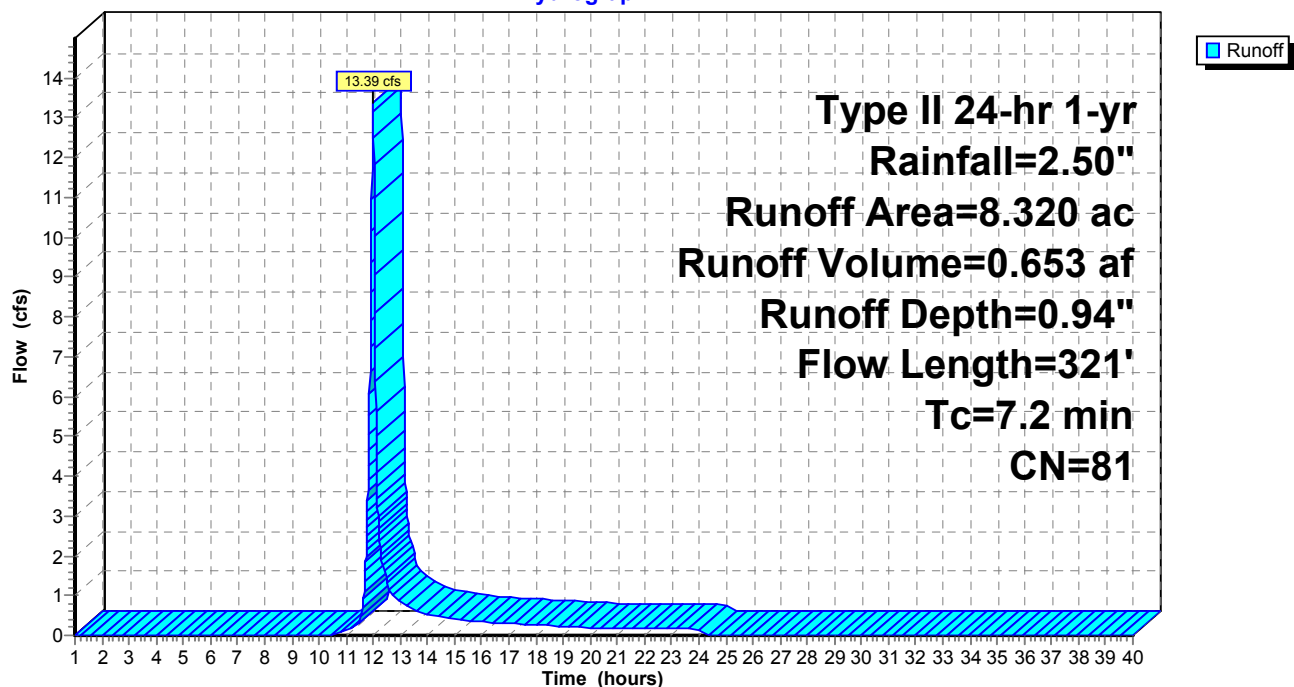
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.320	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	321	0.0300	0.7		Lag/CN Method,

Subcatchment W49: W49

Hydrograph



Subcatchment W50: W50

Runoff = 14.91 cfs @ 12.26 hrs, Volume= 1.511 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

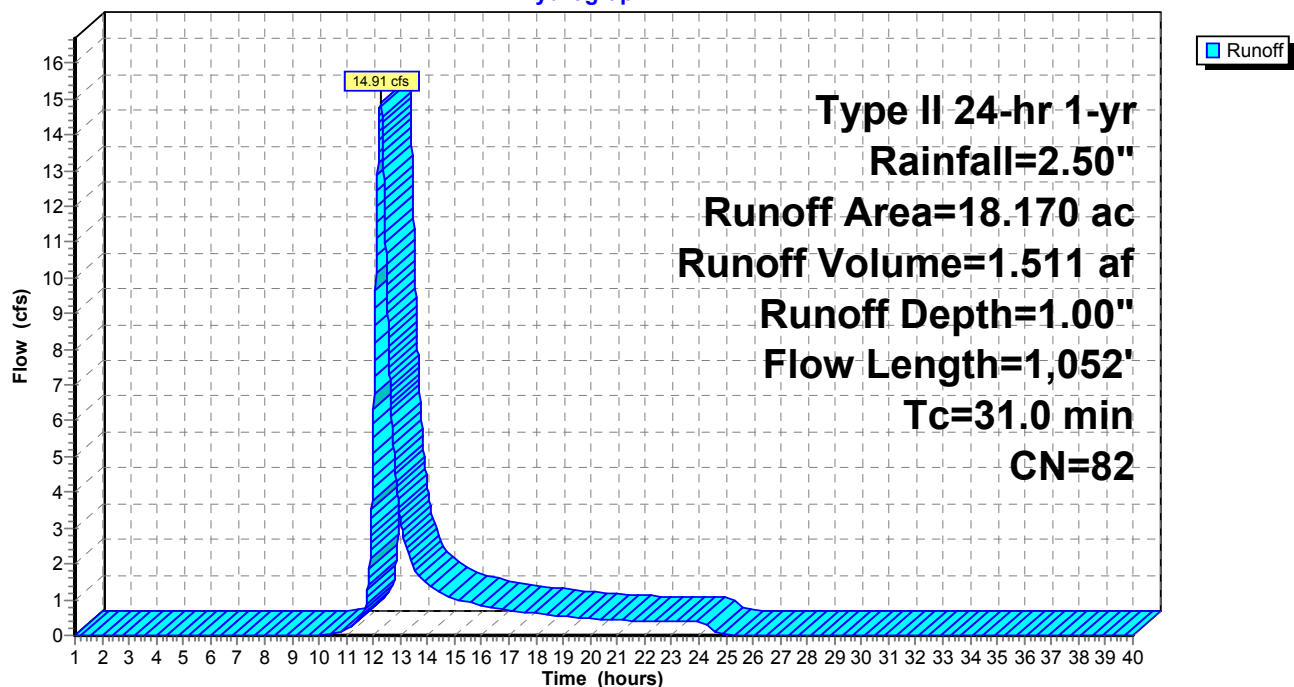
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.170	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	1,052	0.0100	0.6		Lag/CN Method,

Subcatchment W50: W50

Hydrograph



Subcatchment W51: W51

Runoff = 3.98 cfs @ 12.06 hrs, Volume= 0.285 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

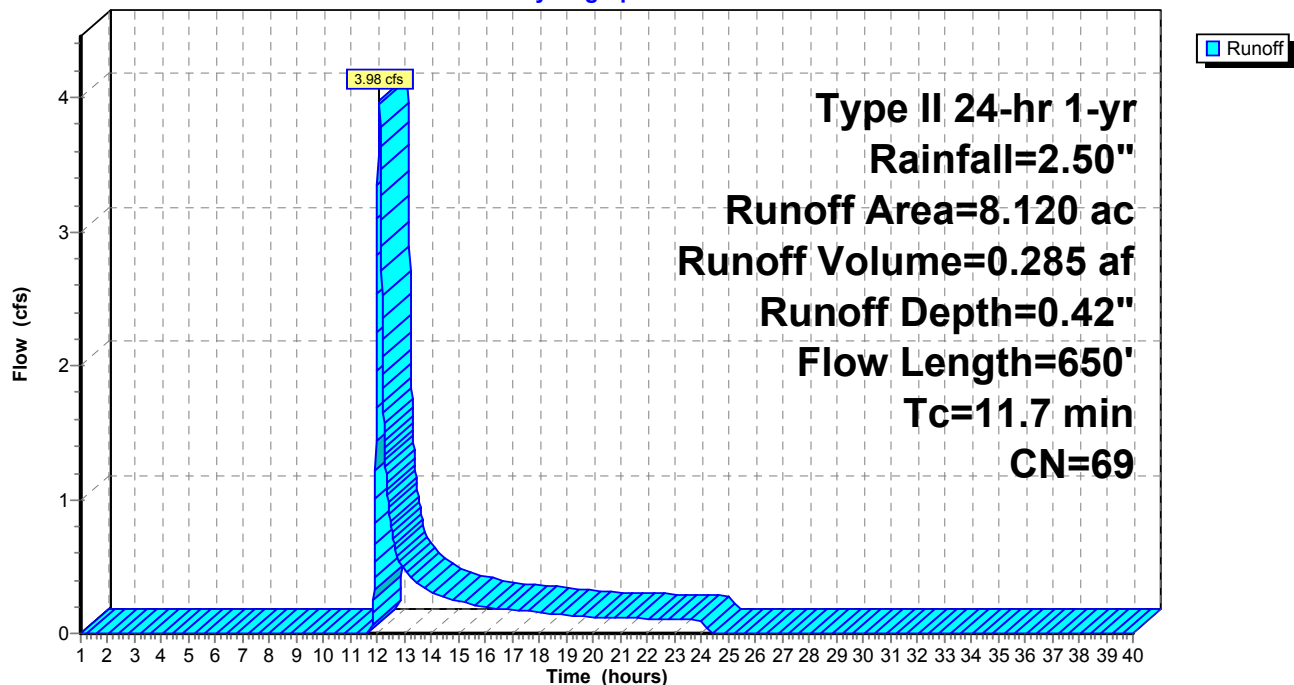
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.120	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	650	0.0700	0.9		Lag/CN Method,

Subcatchment W51: W51

Hydrograph



Subcatchment W52: W52

Runoff = 6.07 cfs @ 12.01 hrs, Volume= 0.326 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

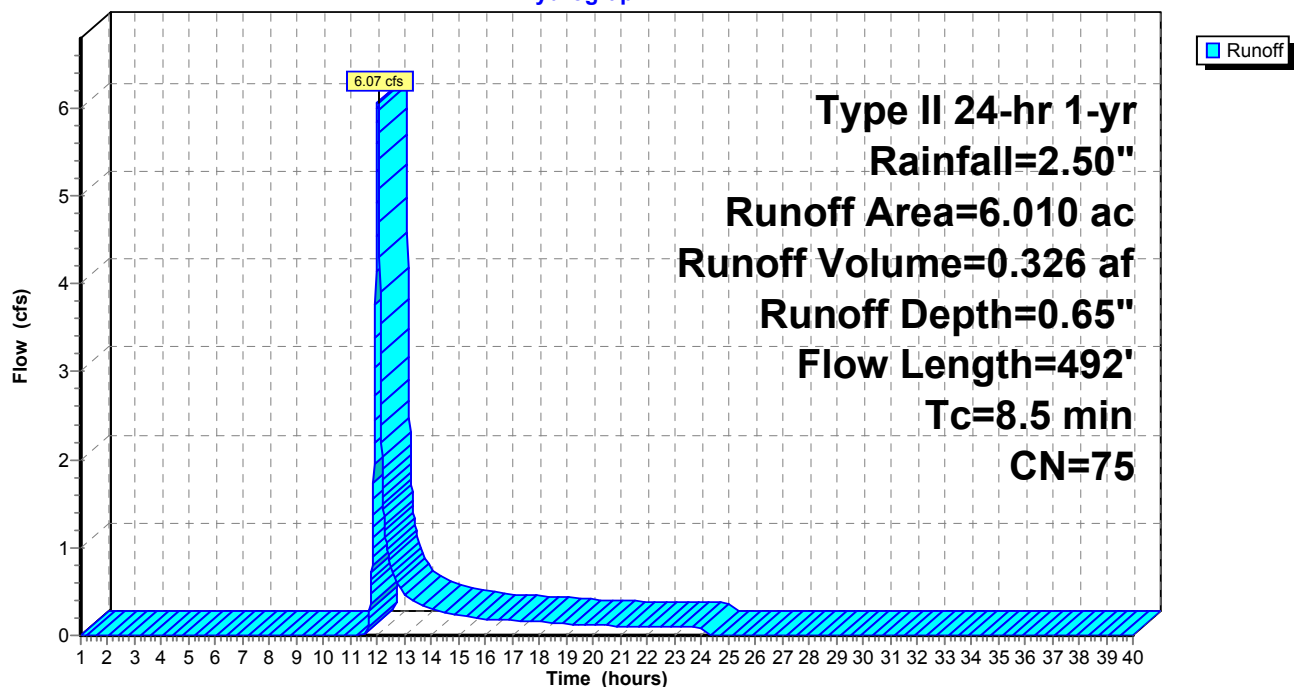
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
6.010	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	492	0.0600	1.0		Lag/CN Method,

Subcatchment W52: W52

Hydrograph



Subcatchment W53: W53

Runoff = 4.95 cfs @ 12.23 hrs, Volume= 0.538 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

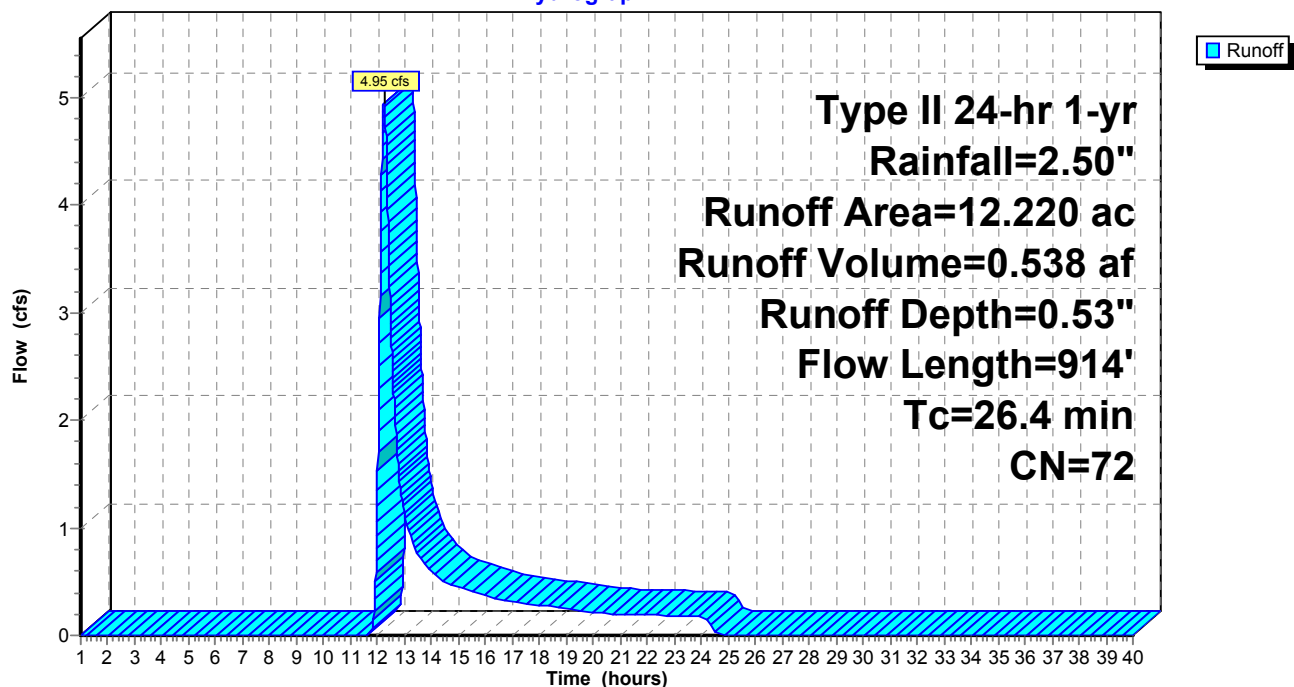
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
12.220	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	914	0.0200	0.6		Lag/CN Method,

Subcatchment W53: W53

Hydrograph



Subcatchment W54: W54

Runoff = 7.08 cfs @ 12.04 hrs, Volume= 0.429 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

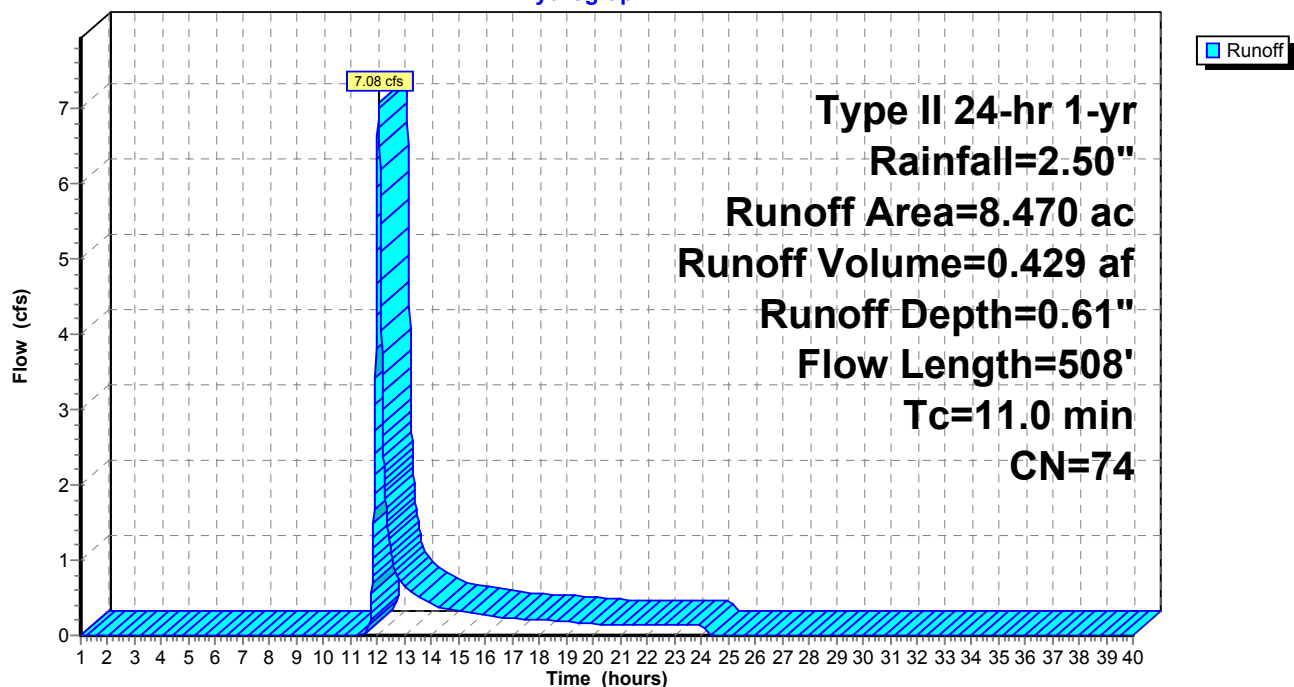
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.470	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	508	0.0400	0.8		Lag/CN Method,

Subcatchment W54: W54

Hydrograph



Subcatchment W55: W55

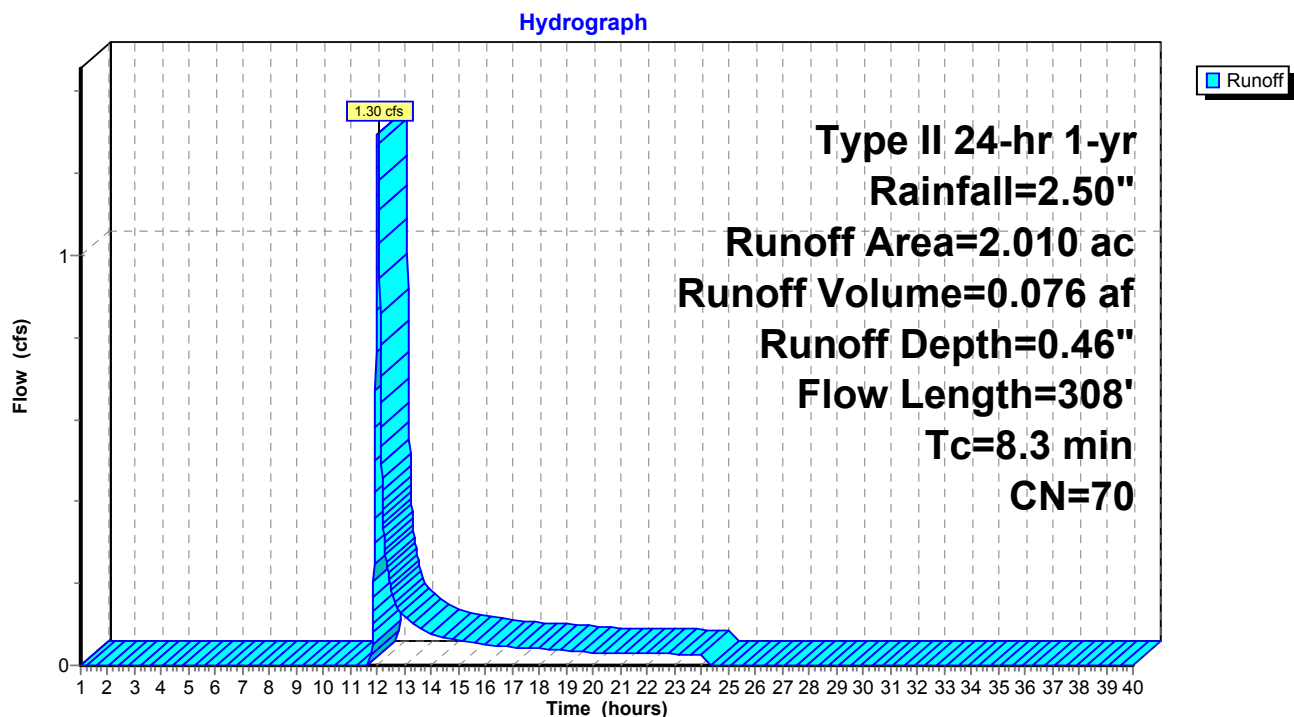
Runoff = 1.30 cfs @ 12.02 hrs, Volume= 0.076 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
2.010	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	308	0.0400	0.6		Lag/CN Method,

Subcatchment W55: W55

Subcatchment W56: W56

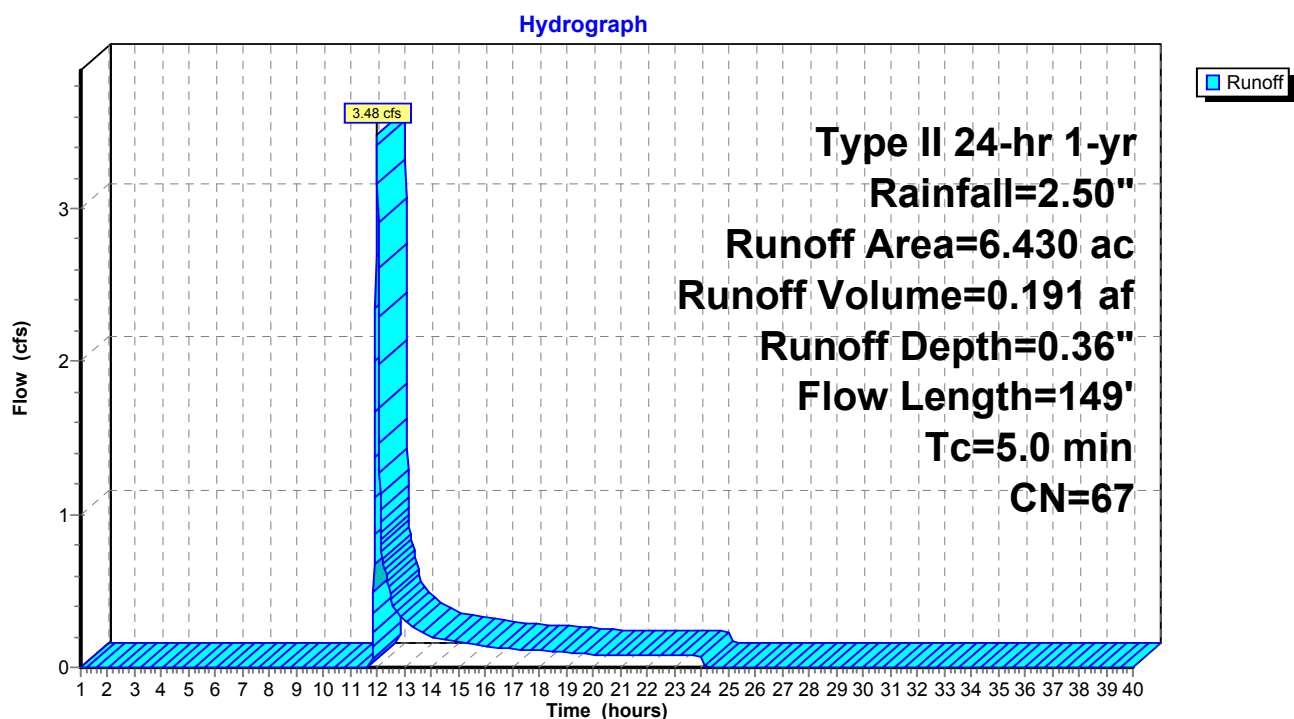
Runoff = 3.48 cfs @ 11.98 hrs, Volume= 0.191 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
6.430	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	149	0.0400	0.5		Lag/CN Method,

Subcatchment W56: W56

Subcatchment W57: W57

Runoff = 6.03 cfs @ 12.00 hrs, Volume= 0.339 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

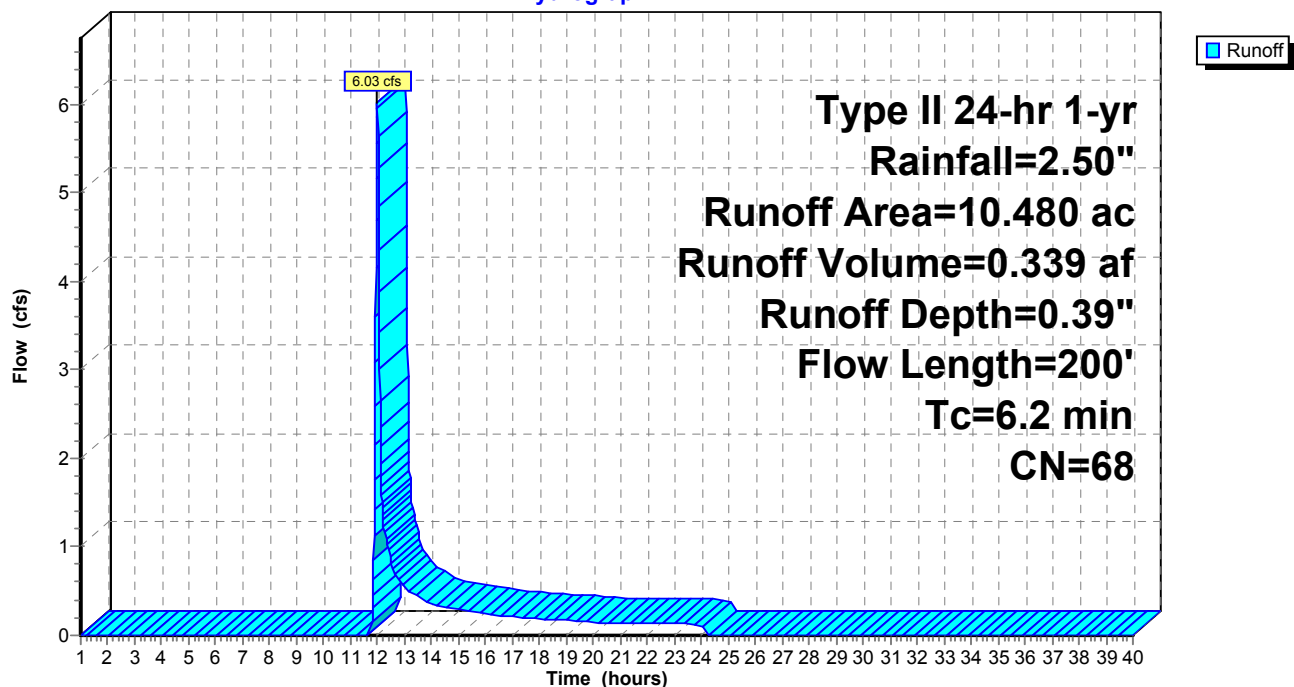
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
10.480	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	200	0.0400	0.5		Lag/CN Method,

Subcatchment W57: W57

Hydrograph



Subcatchment W58: W58

Runoff = 29.86 cfs @ 12.03 hrs, Volume= 1.852 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

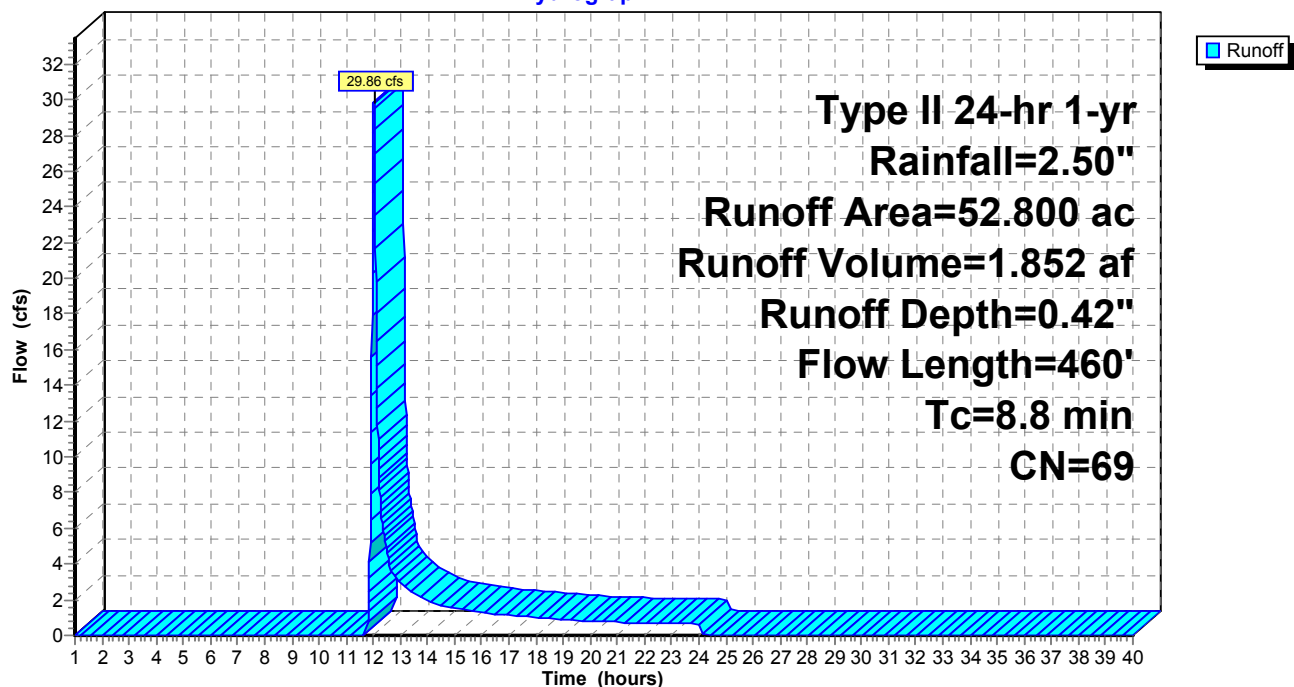
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
52.800	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	460	0.0700	0.9		Lag/CN Method,

Subcatchment W58: W58

Hydrograph



Subcatchment W59: W59

Runoff = 26.37 cfs @ 11.99 hrs, Volume= 1.288 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

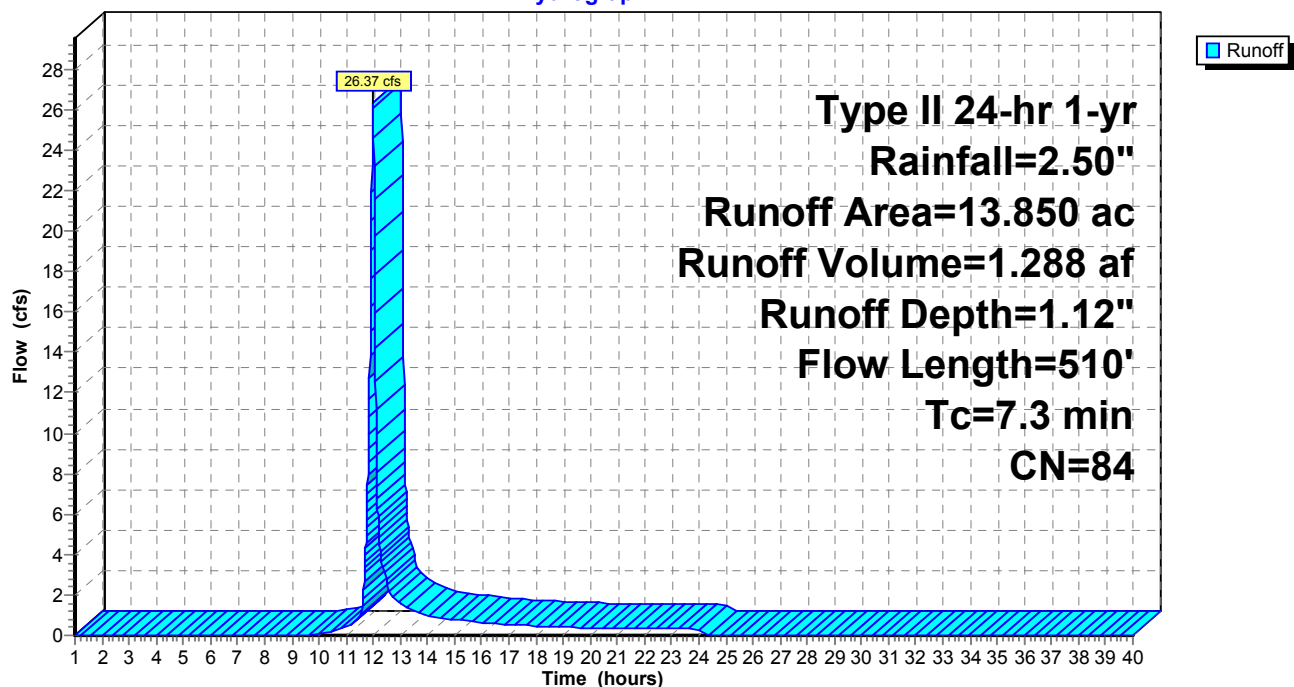
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
13.850	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	510	0.0500	1.2		Lag/CN Method,

Subcatchment W59: W59

Hydrograph



Subcatchment W60: W60

Runoff = 4.06 cfs @ 12.03 hrs, Volume= 0.225 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

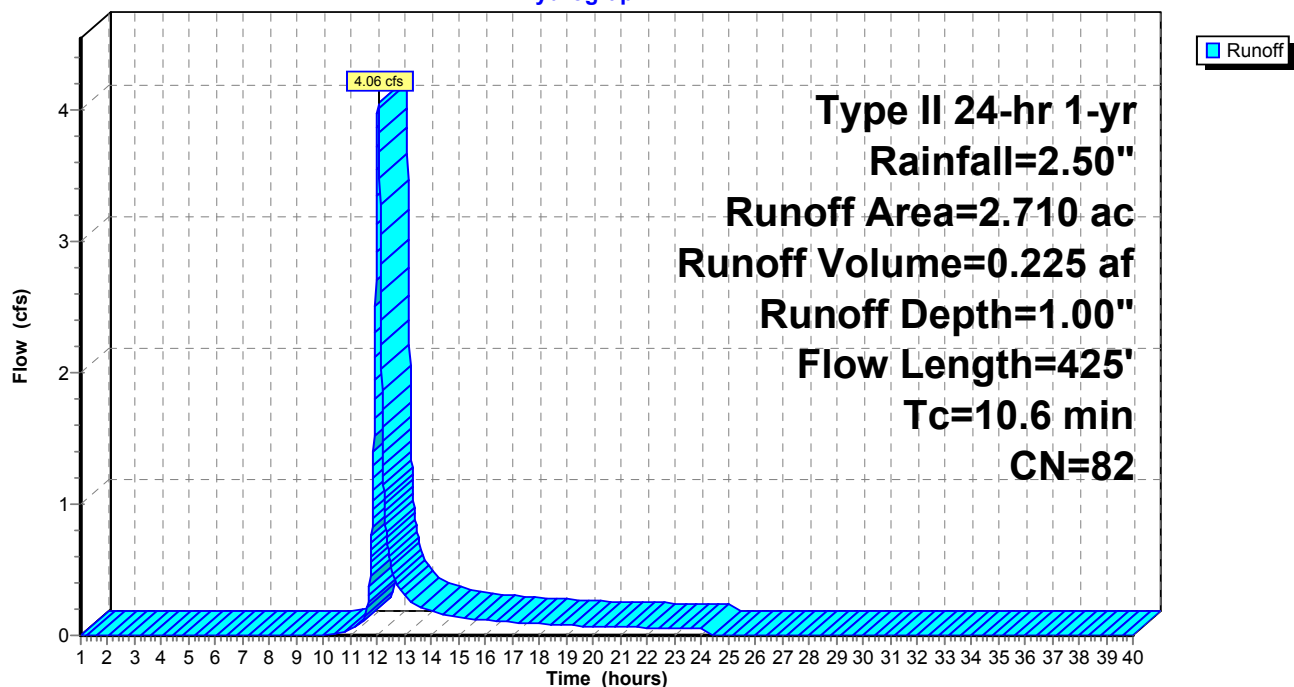
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
2.710	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	425	0.0200	0.7		Lag/CN Method,

Subcatchment W60: W60

Hydrograph



Subcatchment W61: W61

Runoff = 6.38 cfs @ 12.11 hrs, Volume= 0.487 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

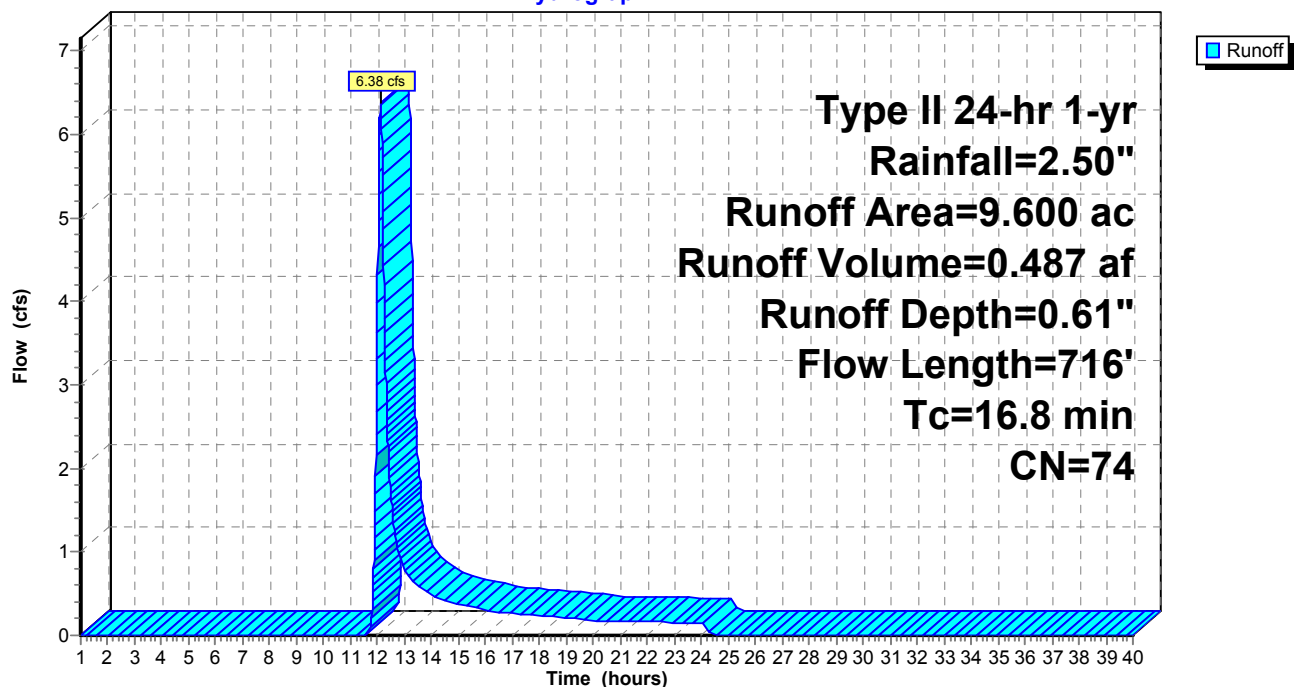
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.600	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	716	0.0300	0.7		Lag/CN Method,

Subcatchment W61: W61

Hydrograph



Subcatchment W62: W62

Runoff = 5.90 cfs @ 12.13 hrs, Volume= 0.469 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

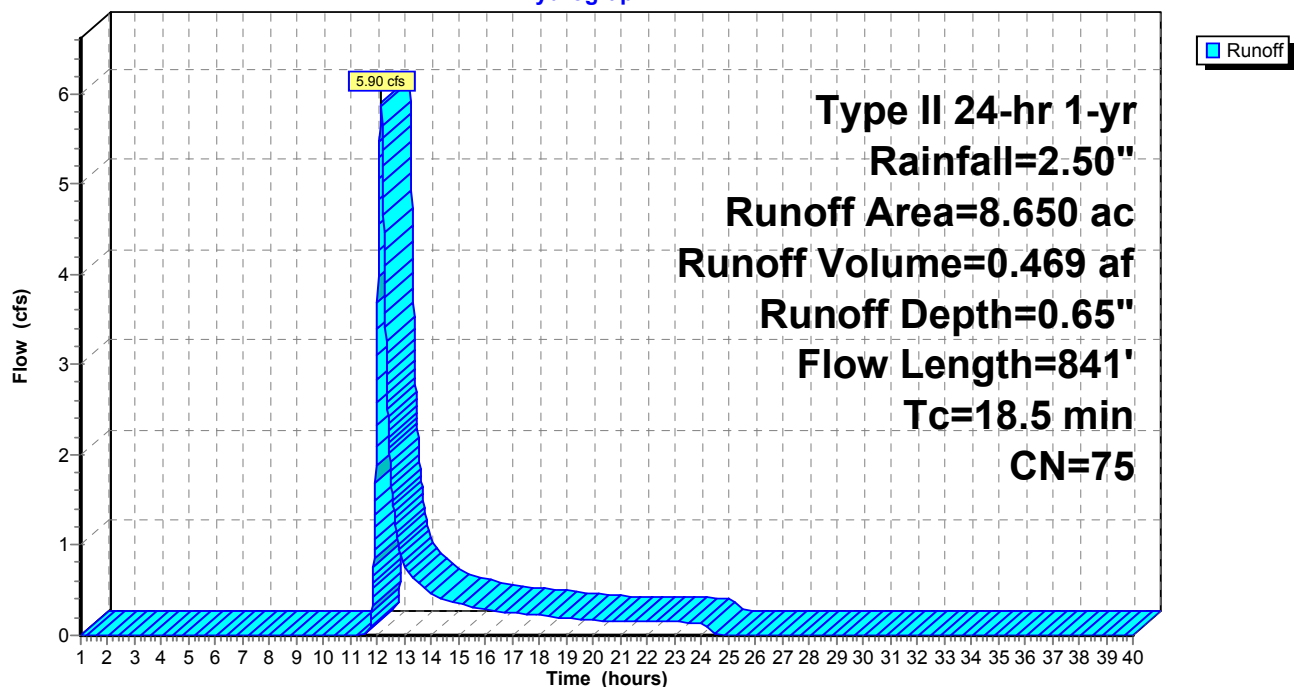
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.650	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.5	841	0.0300	0.8		Lag/CN Method,

Subcatchment W62: W62

Hydrograph



Subcatchment W63: W63

Runoff = 4.34 cfs @ 11.95 hrs, Volume= 0.191 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

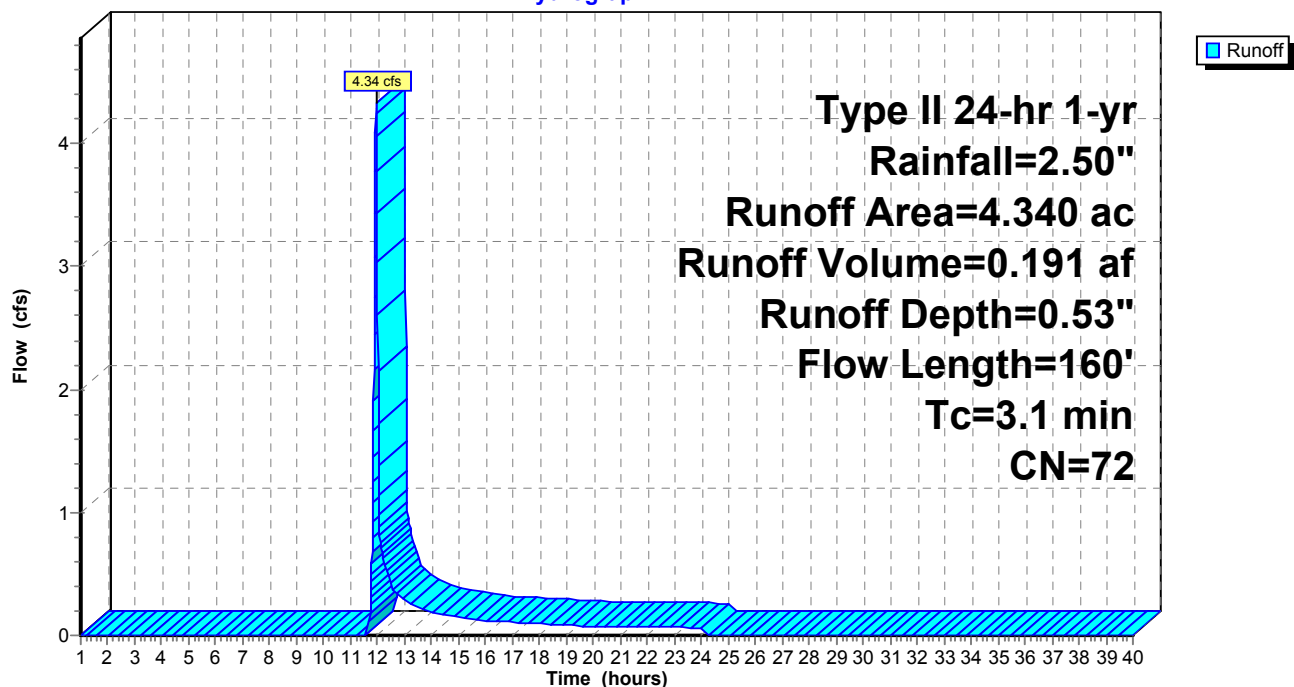
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.340	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	160	0.0900	0.9		Lag/CN Method,

Subcatchment W63: W63

Hydrograph



Subcatchment W64: W64

Runoff = 16.40 cfs @ 12.13 hrs, Volume= 1.249 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

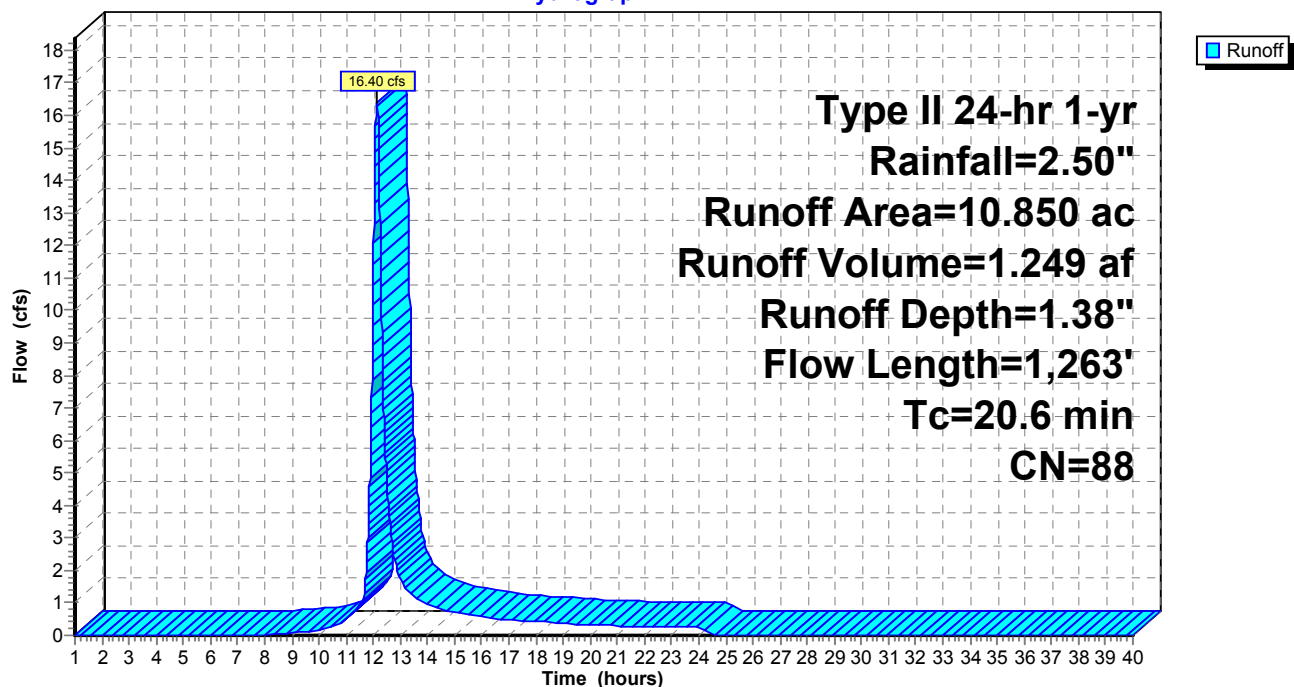
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
10.850	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,263	0.0200	1.0		Lag/CN Method,

Subcatchment W64: W64

Hydrograph



Subcatchment W65: W65

Runoff = 15.41 cfs @ 12.19 hrs, Volume= 1.416 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

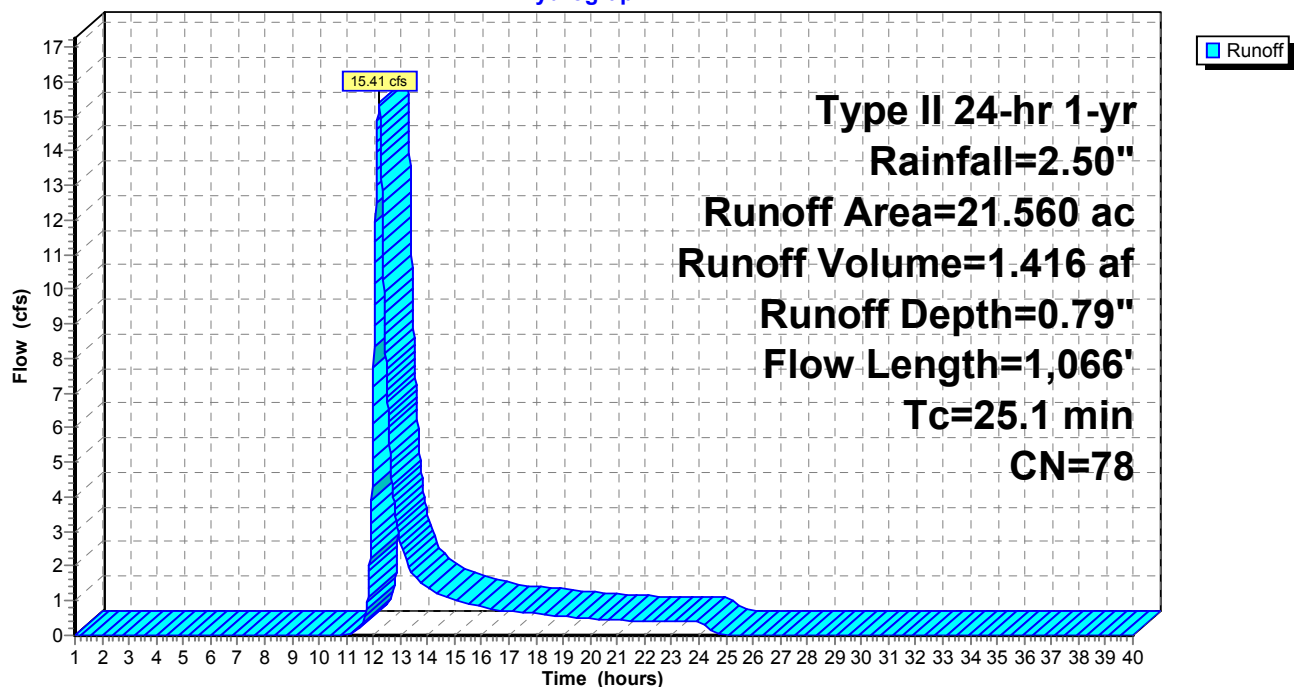
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
21.560	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,066	0.0200	0.7		Lag/CN Method,

Subcatchment W65: W65

Hydrograph



Subcatchment W66: W66

Runoff = 30.18 cfs @ 11.99 hrs, Volume= 1.478 af, Depth= 0.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

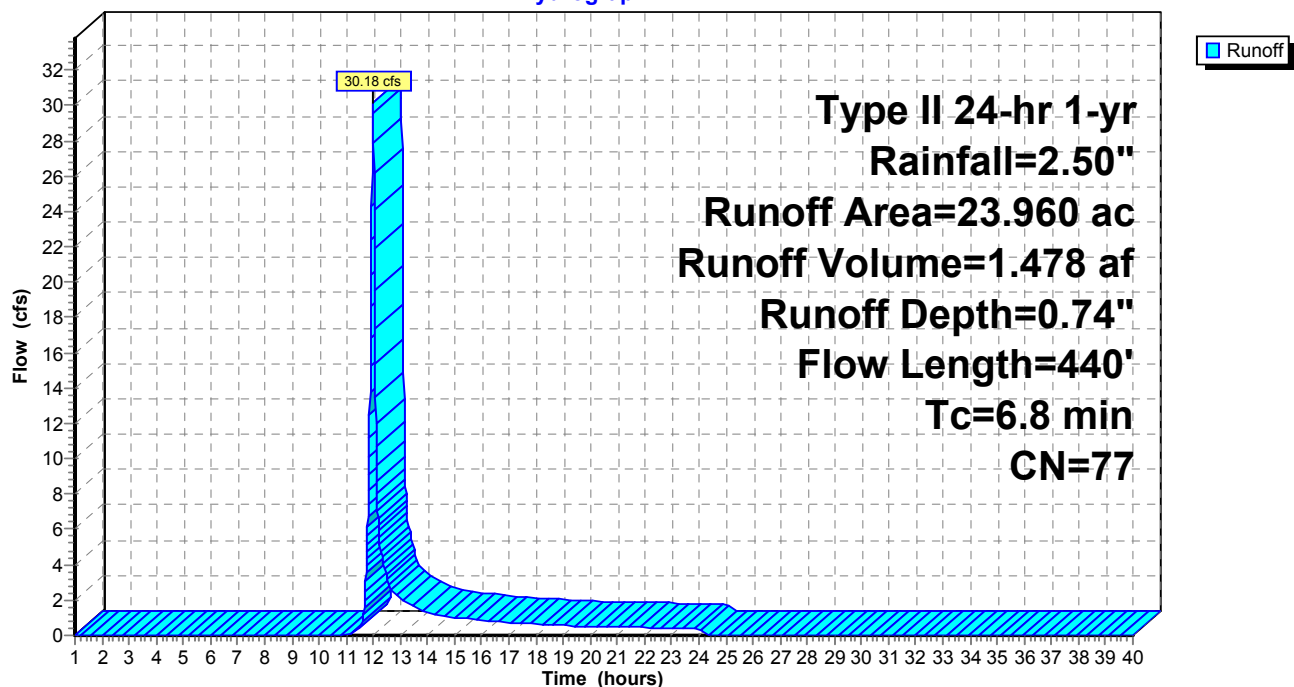
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
23.960	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	440	0.0700	1.1		Lag/CN Method,

Subcatchment W66: W66

Hydrograph



Subcatchment W67: W67

Runoff = 40.98 cfs @ 12.30 hrs, Volume= 4.317 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

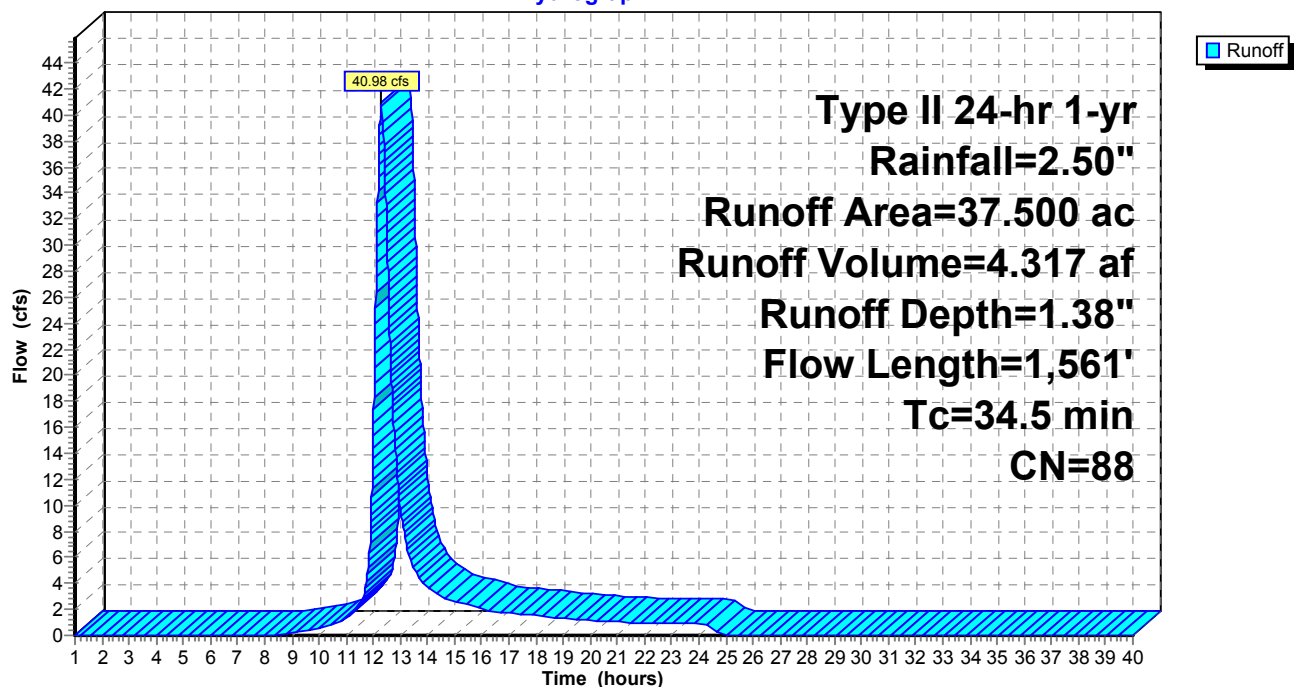
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
37.500	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.5	1,561	0.0100	0.8		Lag/CN Method,

Subcatchment W67: W67

Hydrograph



Subcatchment W68: W68

Runoff = 26.36 cfs @ 12.10 hrs, Volume= 2.288 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

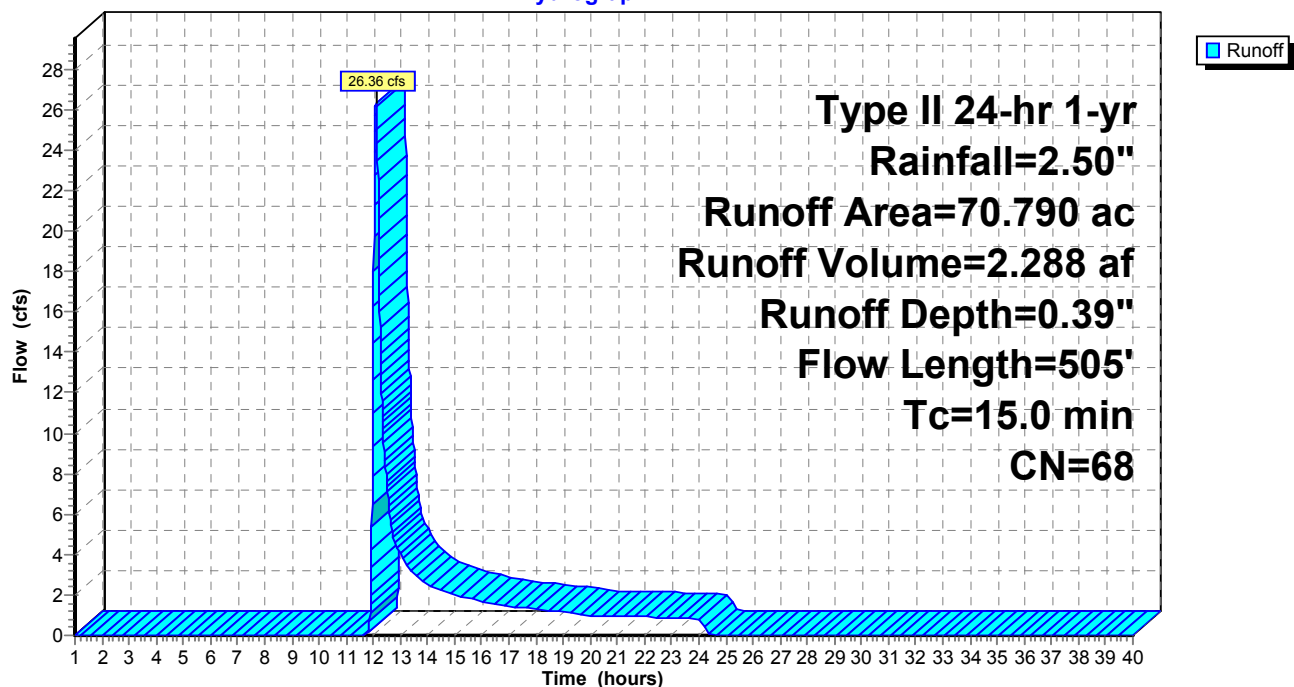
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
70.790	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	505	0.0300	0.6		Lag/CN Method,

Subcatchment W68: W68

Hydrograph



Subcatchment W69: W69

Runoff = 7.77 cfs @ 12.03 hrs, Volume= 0.503 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

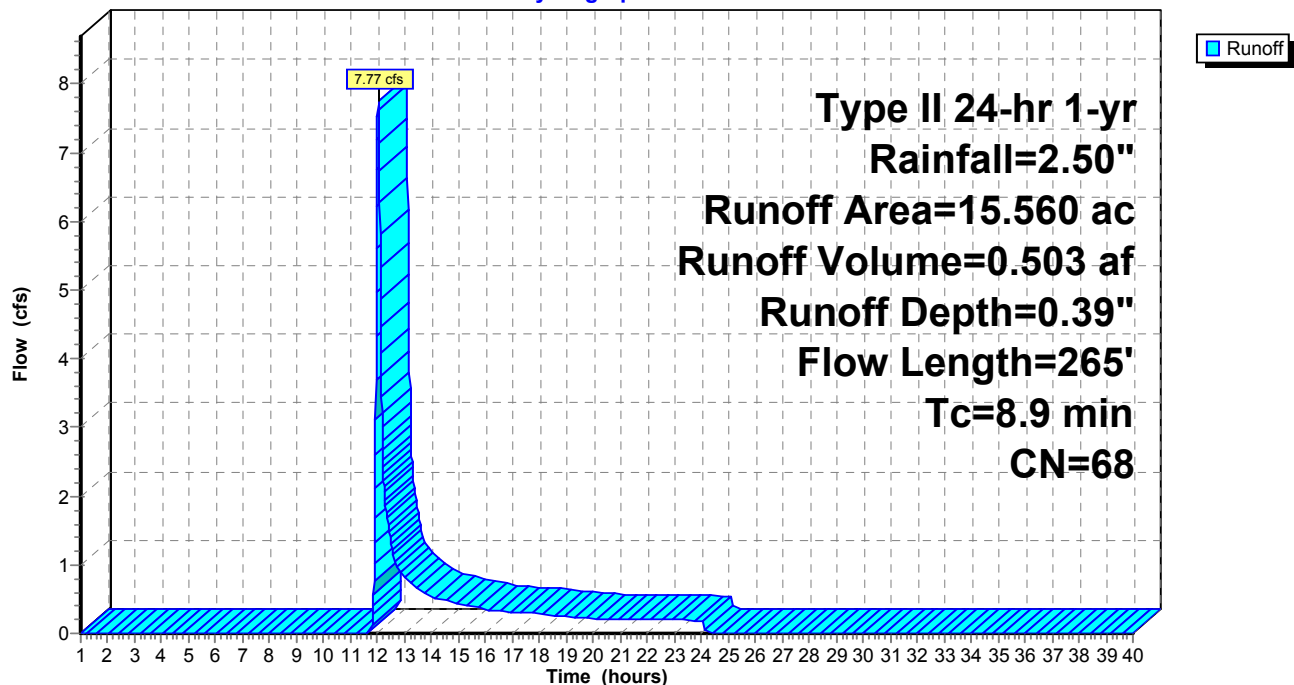
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
15.560	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	265	0.0300	0.5		Lag/CN Method,

Subcatchment W69: W69

Hydrograph



Subcatchment W70: W70

Runoff = 9.11 cfs @ 14.57 hrs, Volume= 4.275 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

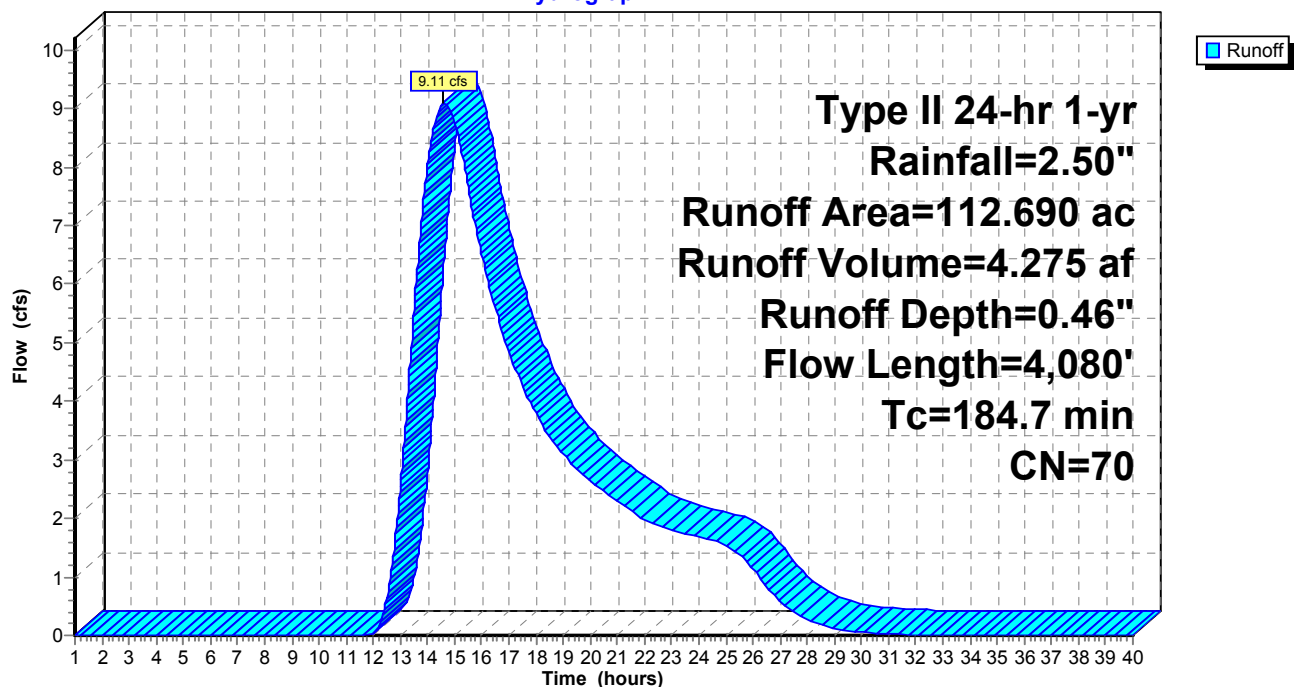
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
112.690	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
184.7	4,080	0.0050	0.4		Lag/CN Method,

Subcatchment W70: W70

Hydrograph



Subcatchment W71: W71

Runoff = 5.48 cfs @ 12.91 hrs, Volume= 1.321 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

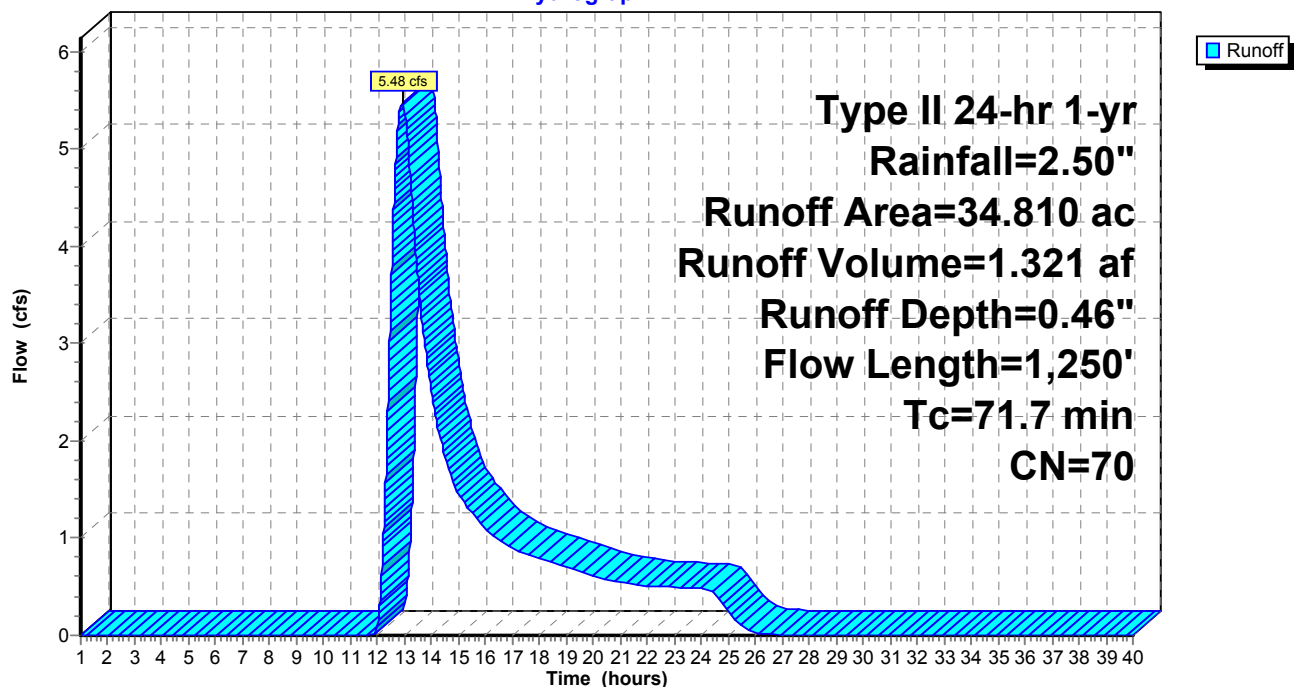
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
34.810	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.7	1,250	0.0050	0.3		Lag/CN Method,

Subcatchment W71: W71

Hydrograph



Subcatchment W72: W72

Runoff = 6.78 cfs @ 12.19 hrs, Volume= 0.693 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

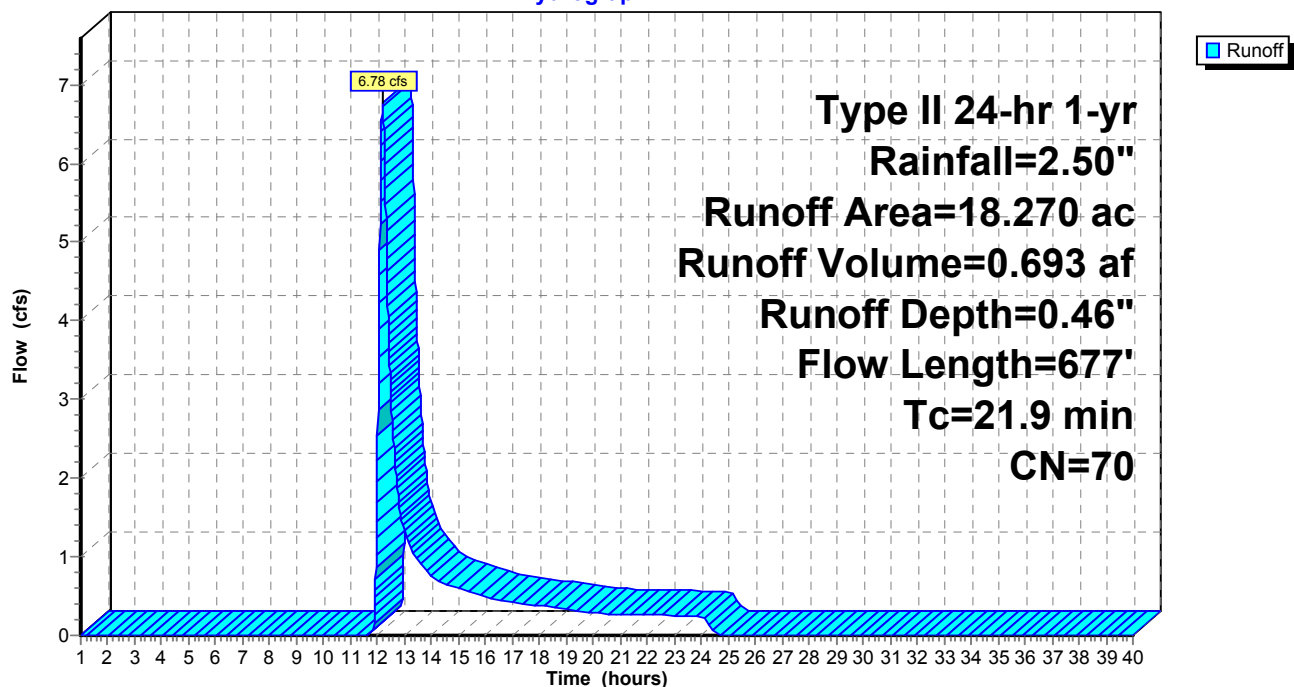
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.270	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	677	0.0200	0.5		Lag/CN Method,

Subcatchment W72: W72

Hydrograph



Subcatchment W73: W73

Runoff = 2.90 cfs @ 12.75 hrs, Volume= 0.781 af, Depth= 0.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

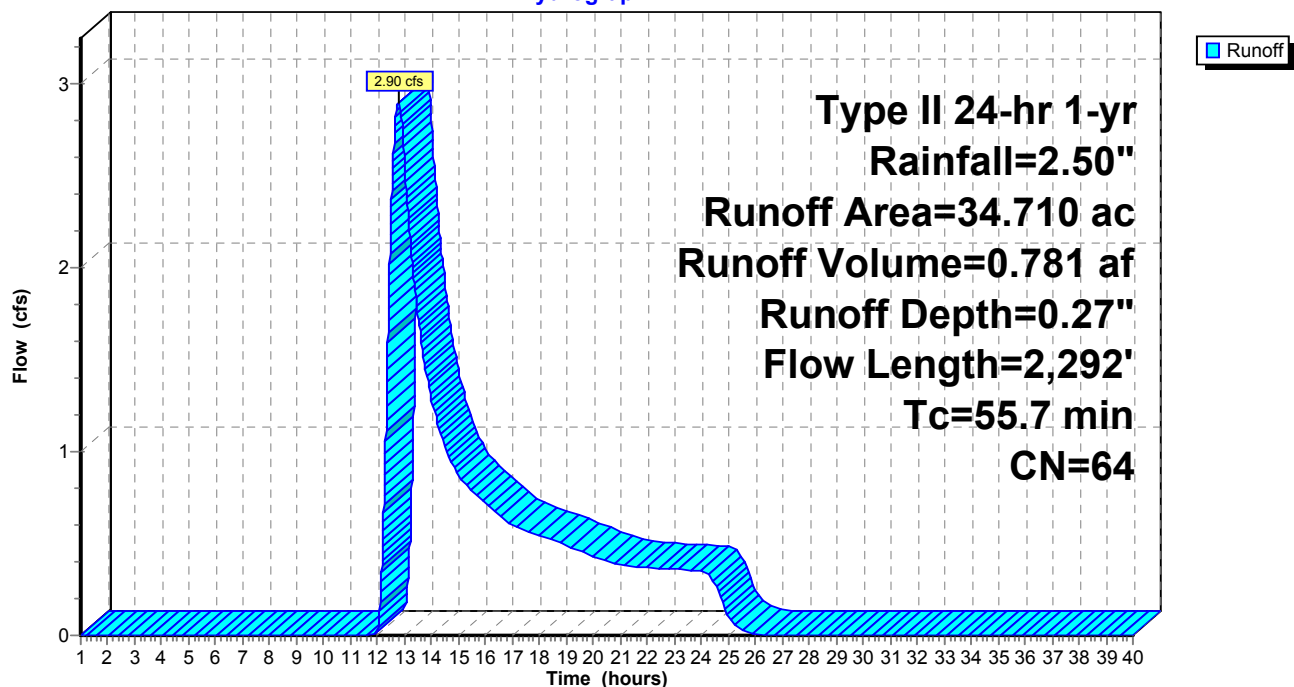
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
34.710	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.7	2,292	0.0300	0.7		Lag/CN Method,

Subcatchment W73: W73

Hydrograph



Subcatchment W74: W74

Runoff = 2.16 cfs @ 12.04 hrs, Volume= 0.148 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

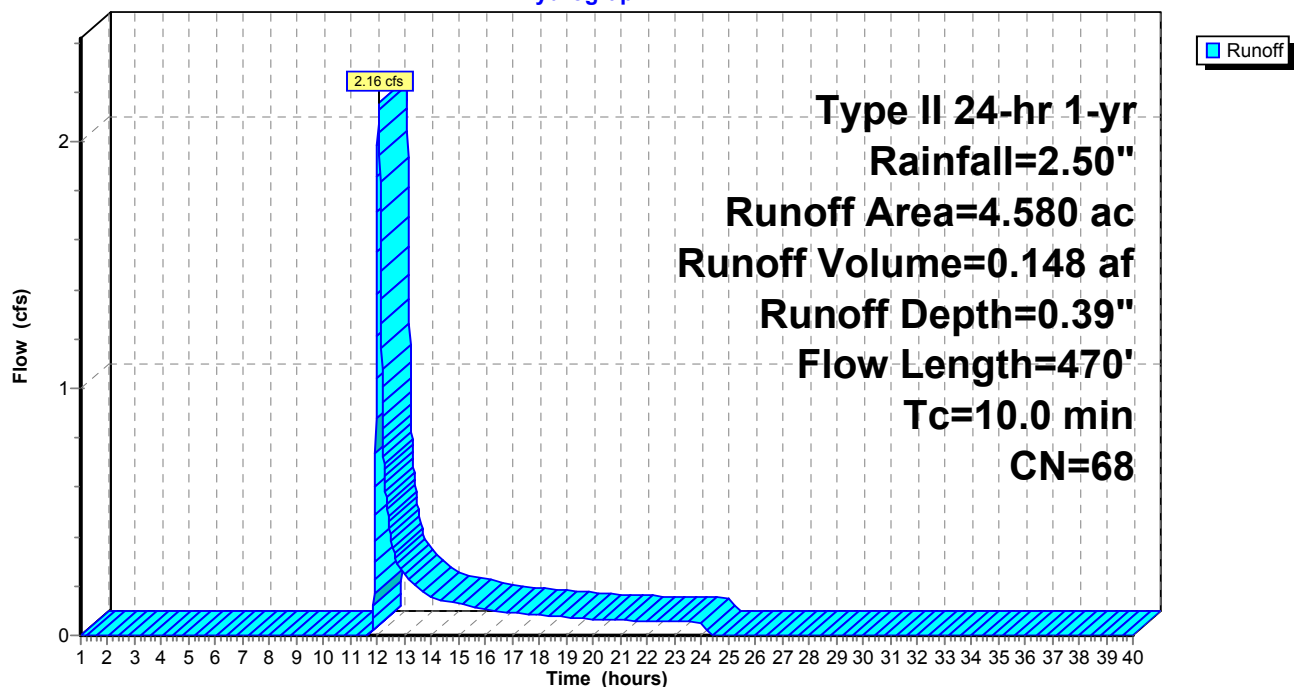
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
4.580	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	470	0.0600	0.8		Lag/CN Method,

Subcatchment W74: W74

Hydrograph



Subcatchment W75: W75

Runoff = 29.83 cfs @ 12.11 hrs, Volume= 2.216 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

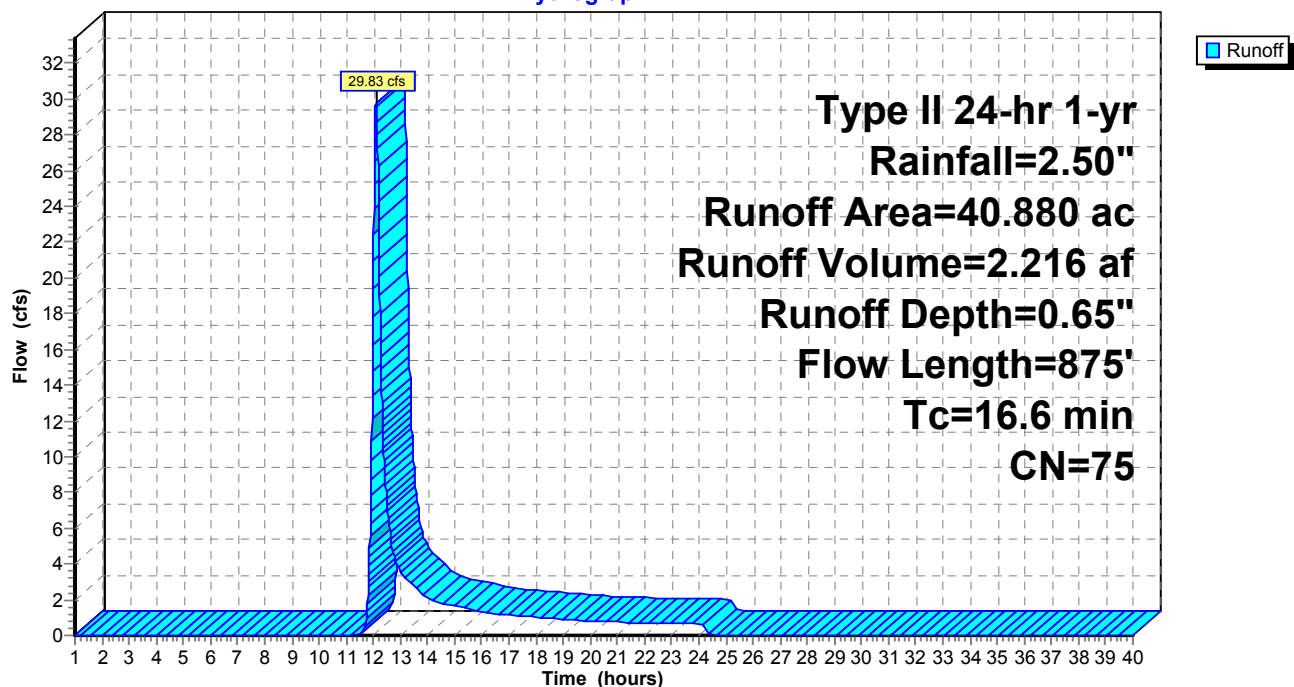
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
40.880	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	875	0.0400	0.9		Lag/CN Method,

Subcatchment W75: W75

Hydrograph



Subcatchment W76: W76

Runoff = 14.70 cfs @ 12.41 hrs, Volume= 2.162 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

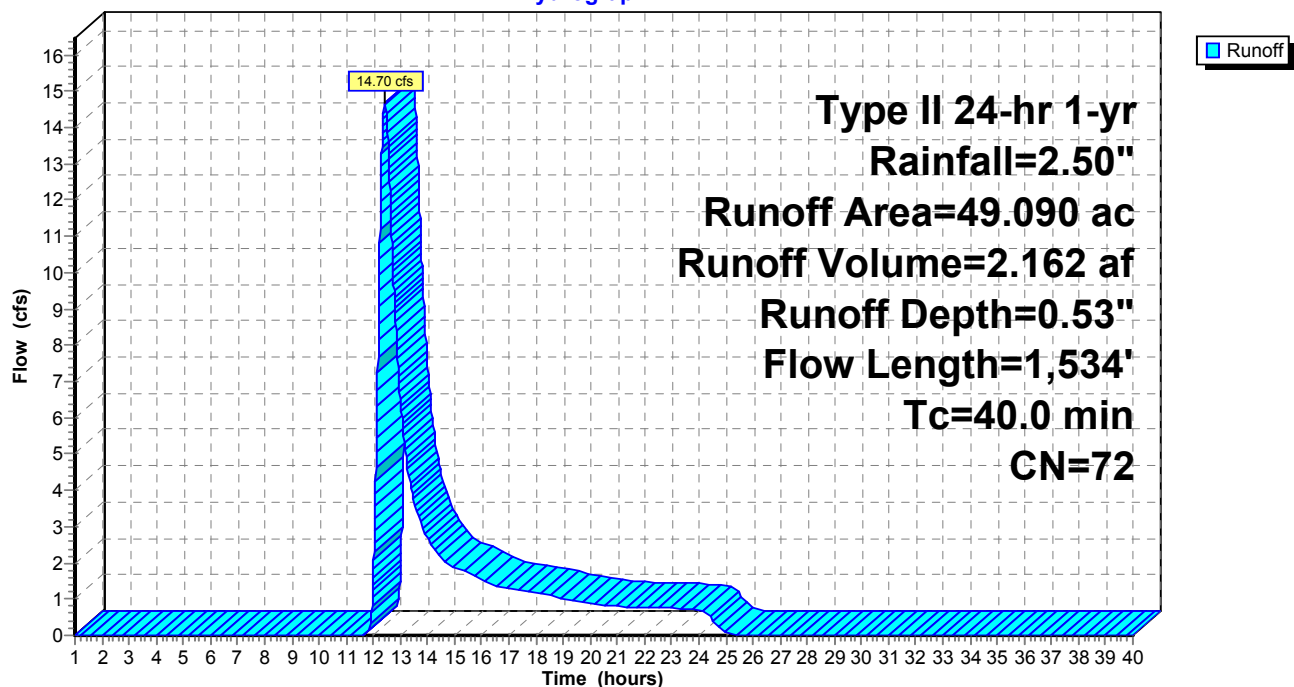
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
49.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.0	1,534	0.0200	0.6		Lag/CN Method,

Subcatchment W76: W76

Hydrograph



Subcatchment W77: W77

Runoff = 70.95 cfs @ 12.02 hrs, Volume= 3.838 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

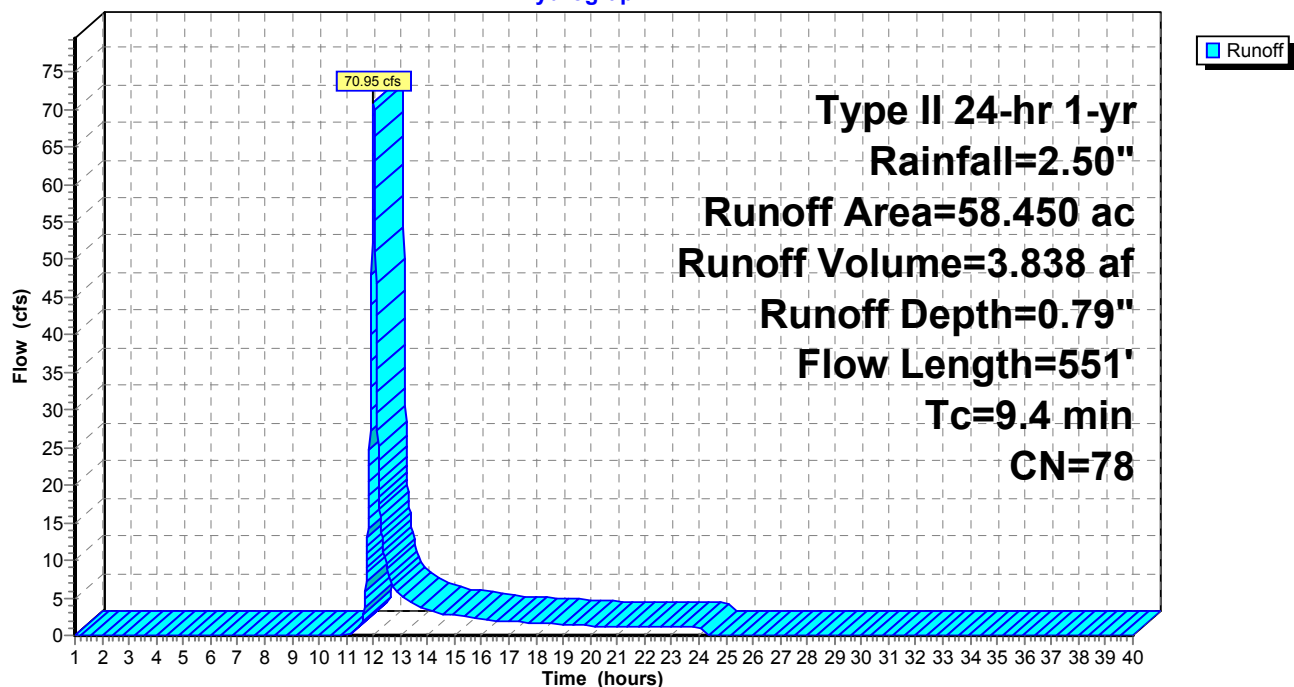
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
58.450	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	551	0.0500	1.0		Lag/CN Method,

Subcatchment W77: W77

Hydrograph



Subcatchment W79: W79

Runoff = 6.17 cfs @ 12.67 hrs, Volume= 1.320 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

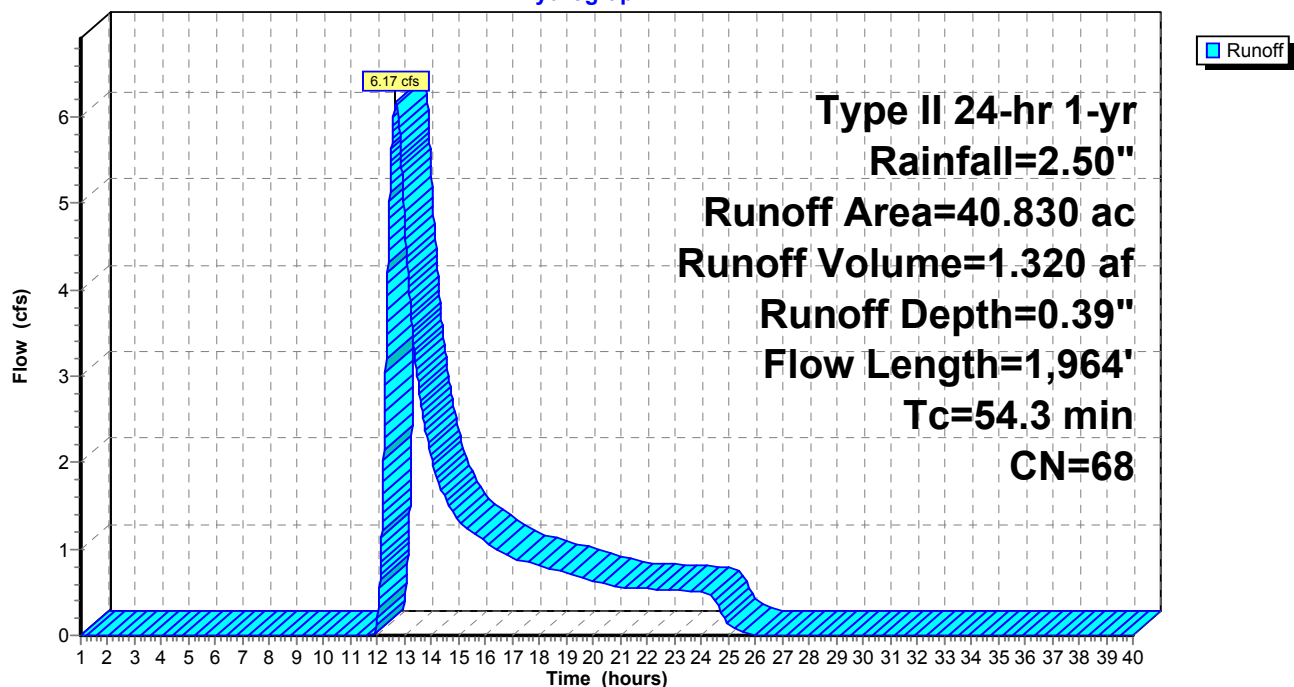
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
40.830	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.3	1,964	0.0200	0.6		Lag/CN Method,

Subcatchment W79: W79

Hydrograph



Subcatchment W80: W80

Runoff = 36.33 cfs @ 12.32 hrs, Volume= 4.215 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

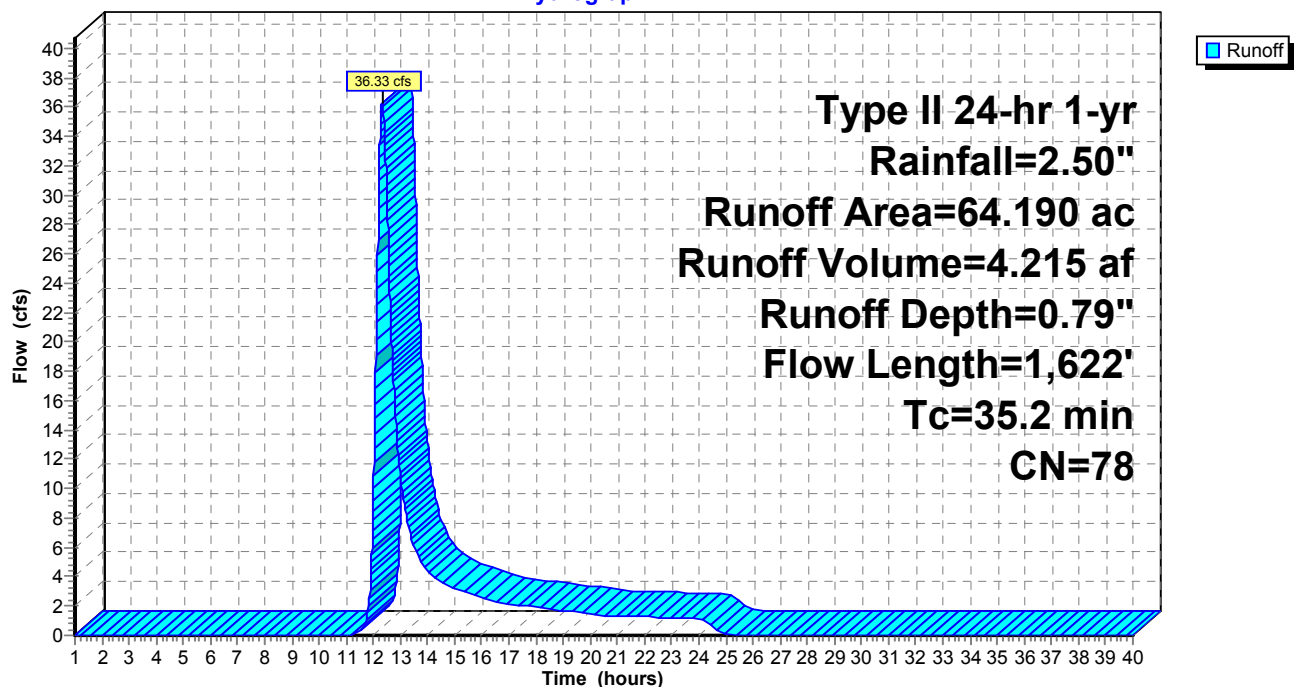
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
64.190	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.2	1,622	0.0200	0.8		Lag/CN Method,

Subcatchment W80: W80

Hydrograph



Subcatchment W81: W81

Runoff = 27.62 cfs @ 11.97 hrs, Volume= 1.304 af, Depth= 1.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

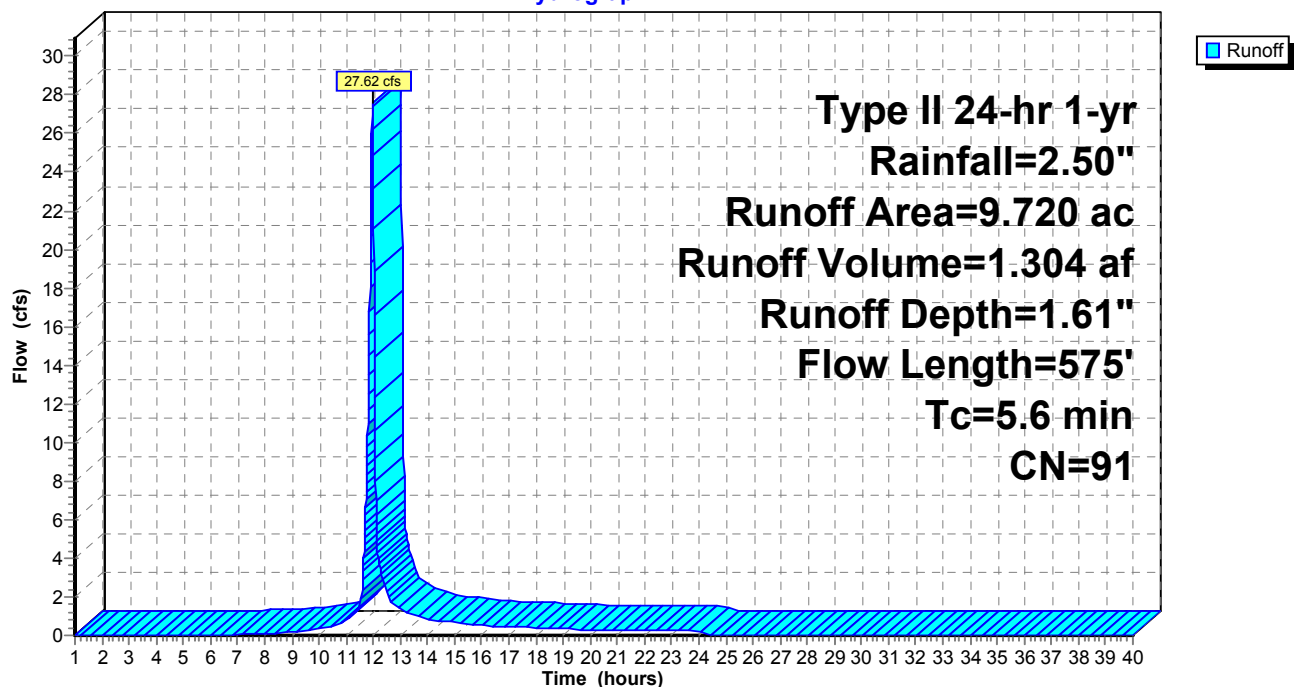
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.720	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	575	0.0600	1.7		Lag/CN Method,

Subcatchment W81: W81

Hydrograph



Subcatchment W82: W82

Runoff = 15.12 cfs @ 12.07 hrs, Volume= 1.011 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

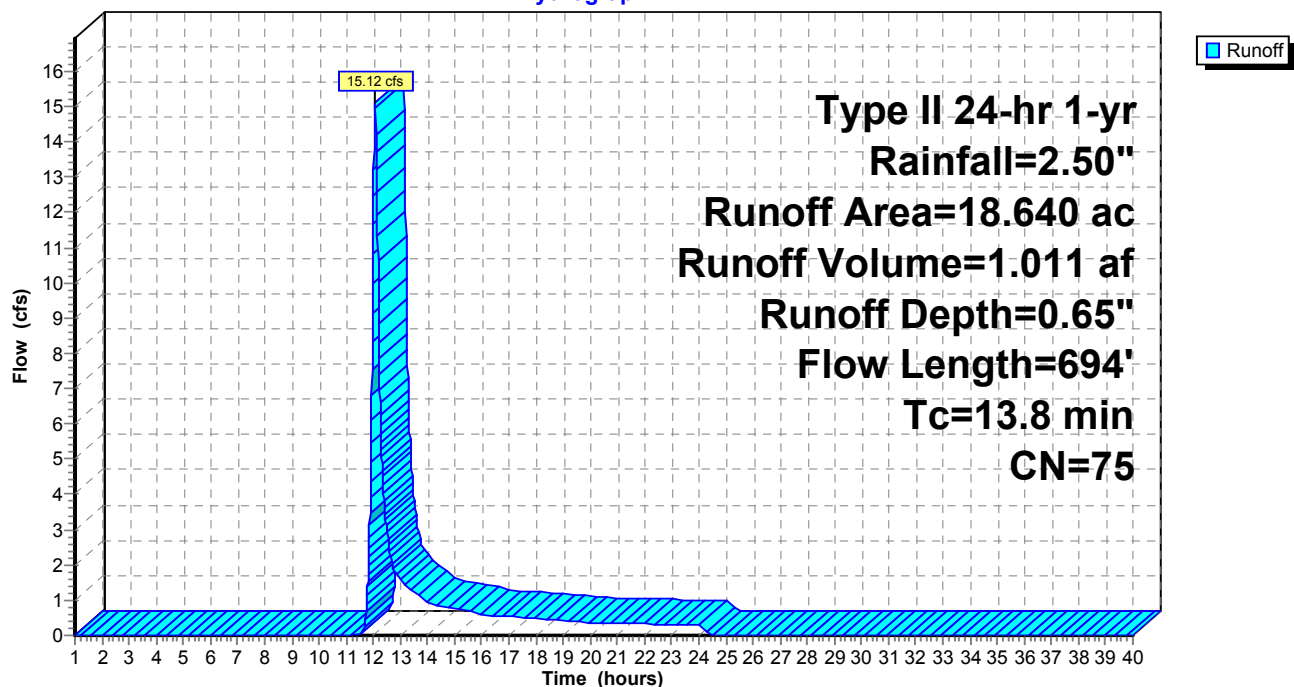
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.640	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	694	0.0400	0.8		Lag/CN Method,

Subcatchment W82: W82

Hydrograph



Subcatchment W83: W83

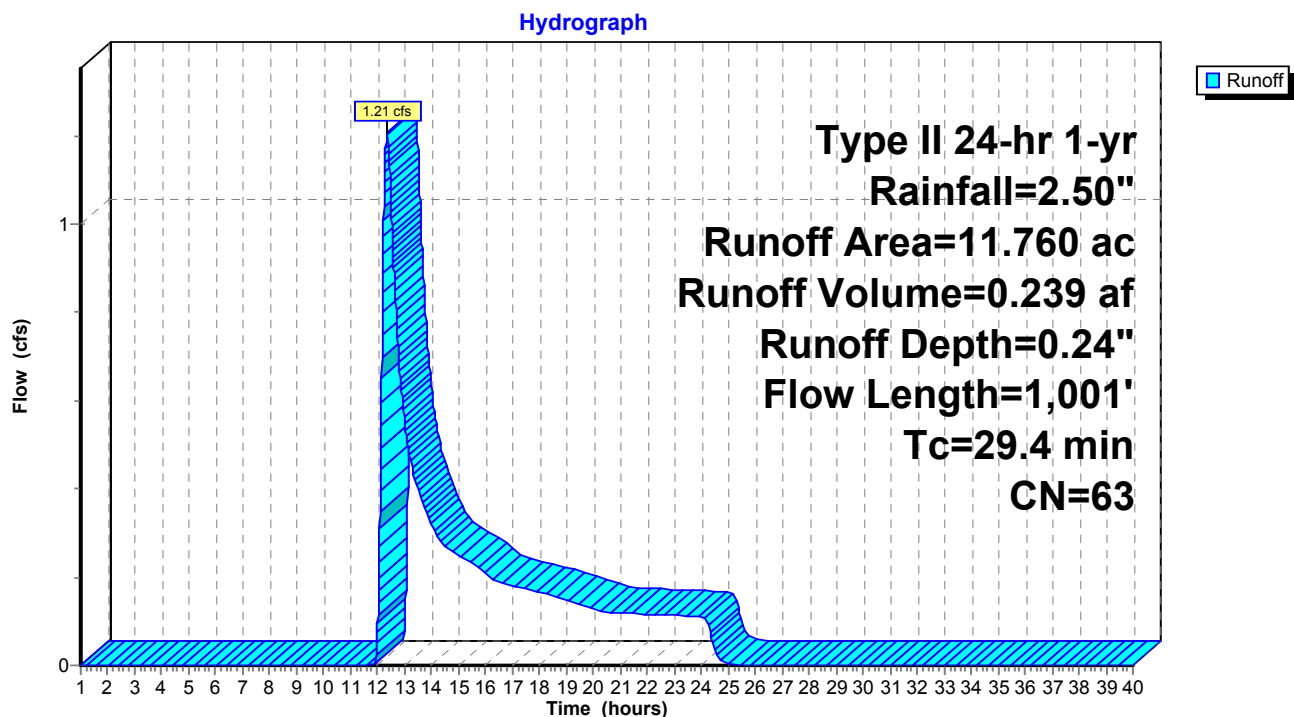
Runoff = 1.21 cfs @ 12.35 hrs, Volume= 0.239 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
11.760	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,001	0.0300	0.6		Lag/CN Method,

Subcatchment W83: W83

Subcatchment W84: W84

Runoff = 14.63 cfs @ 12.14 hrs, Volume= 1.142 af, Depth= 0.84"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

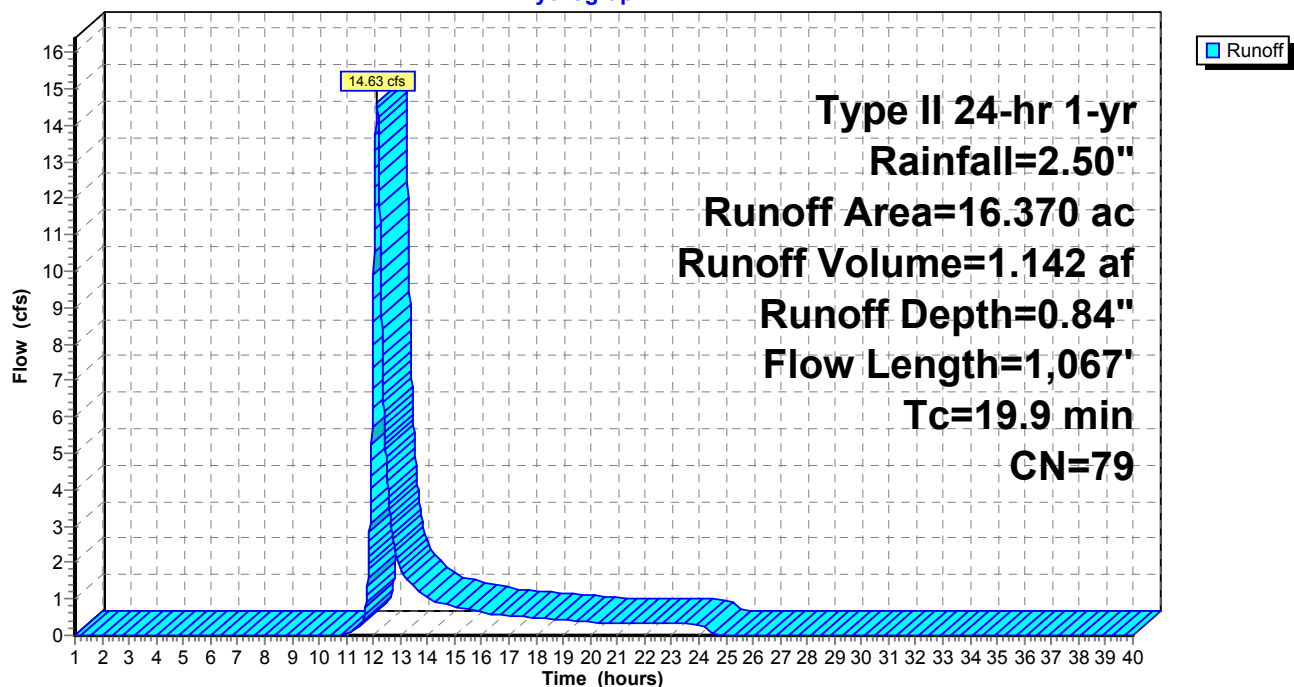
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
16.370	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,067	0.0300	0.9		Lag/CN Method,

Subcatchment W84: W84

Hydrograph



Subcatchment W85: W85

Runoff = 14.62 cfs @ 12.00 hrs, Volume= 0.756 af, Depth= 1.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

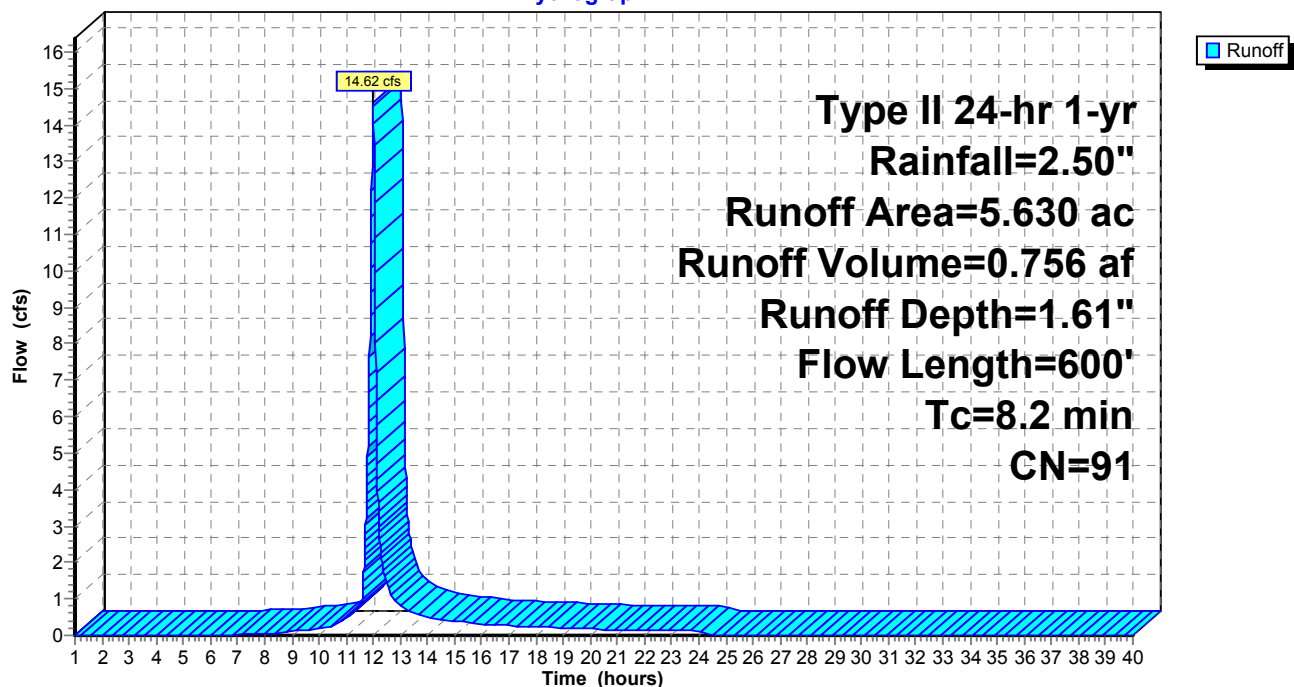
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
5.630	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	600	0.0300	1.2		Lag/CN Method,

Subcatchment W85: W85

Hydrograph



Subcatchment W86: W86

Runoff = 0.02 cfs @ 24.04 hrs, Volume= 0.008 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

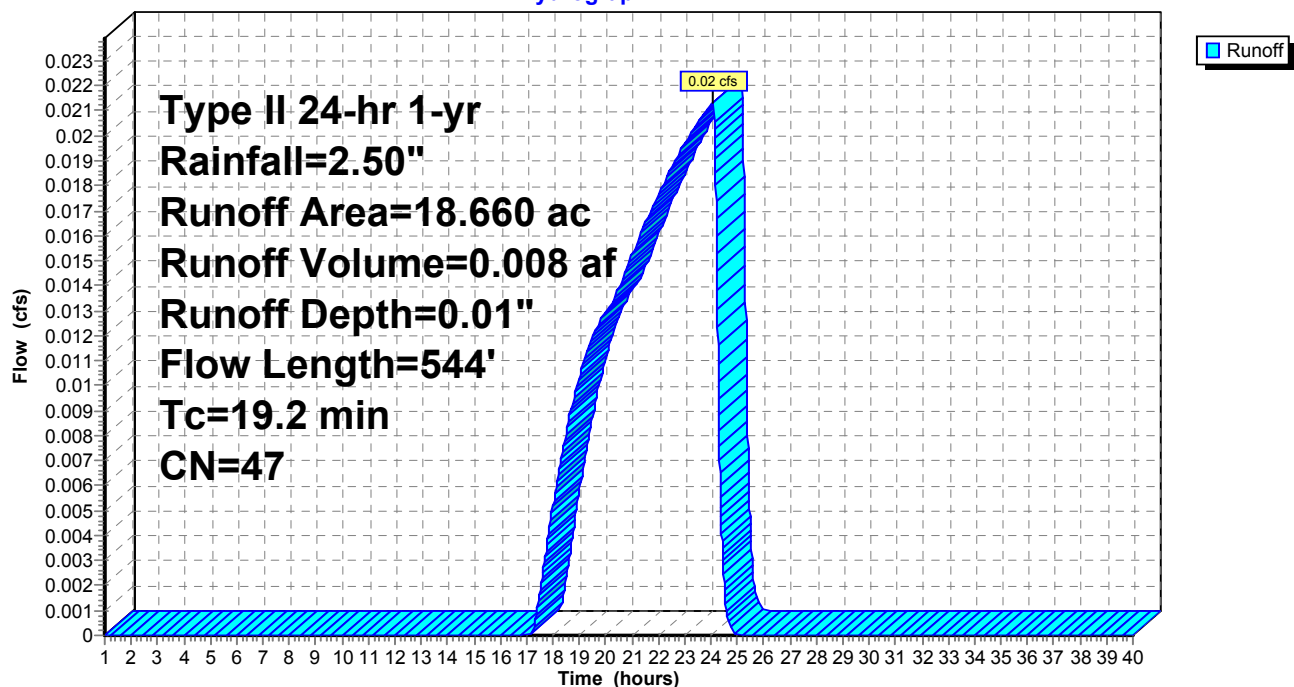
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
18.660	47	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	544	0.0600	0.5		Lag/CN Method,

Subcatchment W86: W86

Hydrograph



Subcatchment W87: W87

Runoff = 0.19 cfs @ 12.28 hrs, Volume= 0.069 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

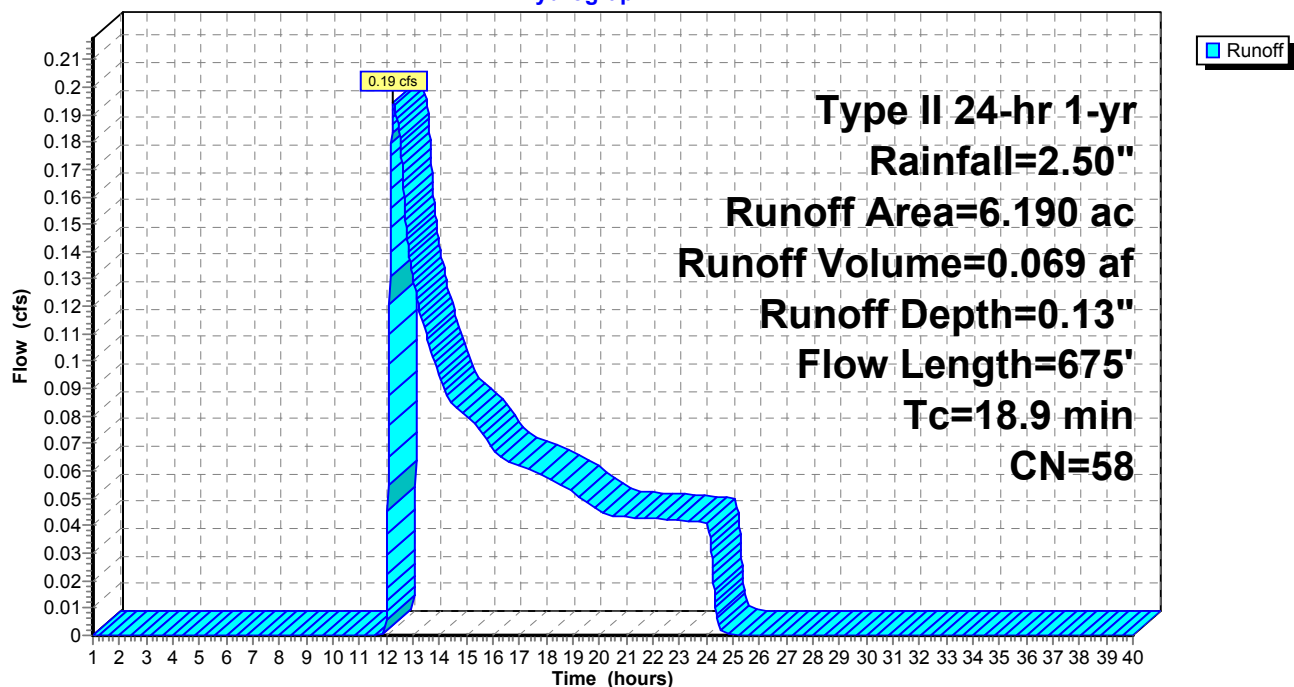
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
6.190	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.9	675	0.0500	0.6		Lag/CN Method,

Subcatchment W87: W87

Hydrograph



Subcatchment W88: W88

Runoff = 0.22 cfs @ 13.01 hrs, Volume= 0.140 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

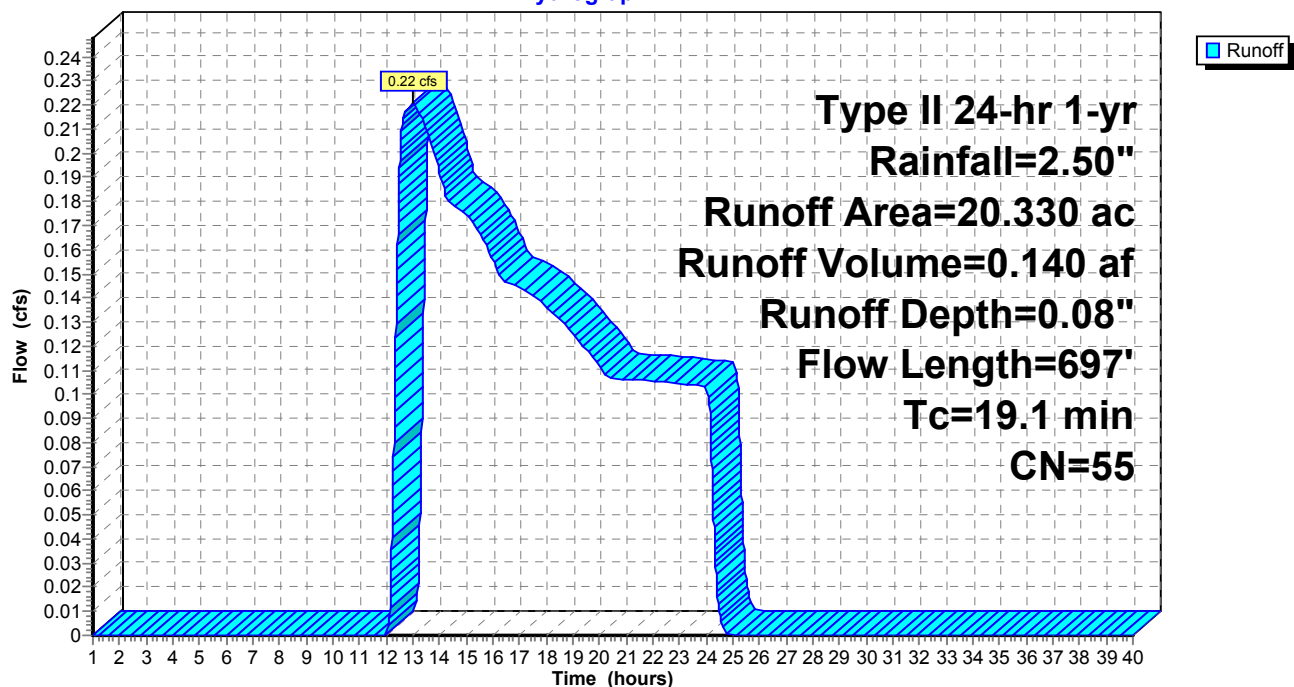
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
20.330	55	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	697	0.0600	0.6		Lag/CN Method,

Subcatchment W88: W88

Hydrograph



Subcatchment W89: W89

Runoff = 16.94 cfs @ 12.56 hrs, Volume= 2.822 af, Depth= 0.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

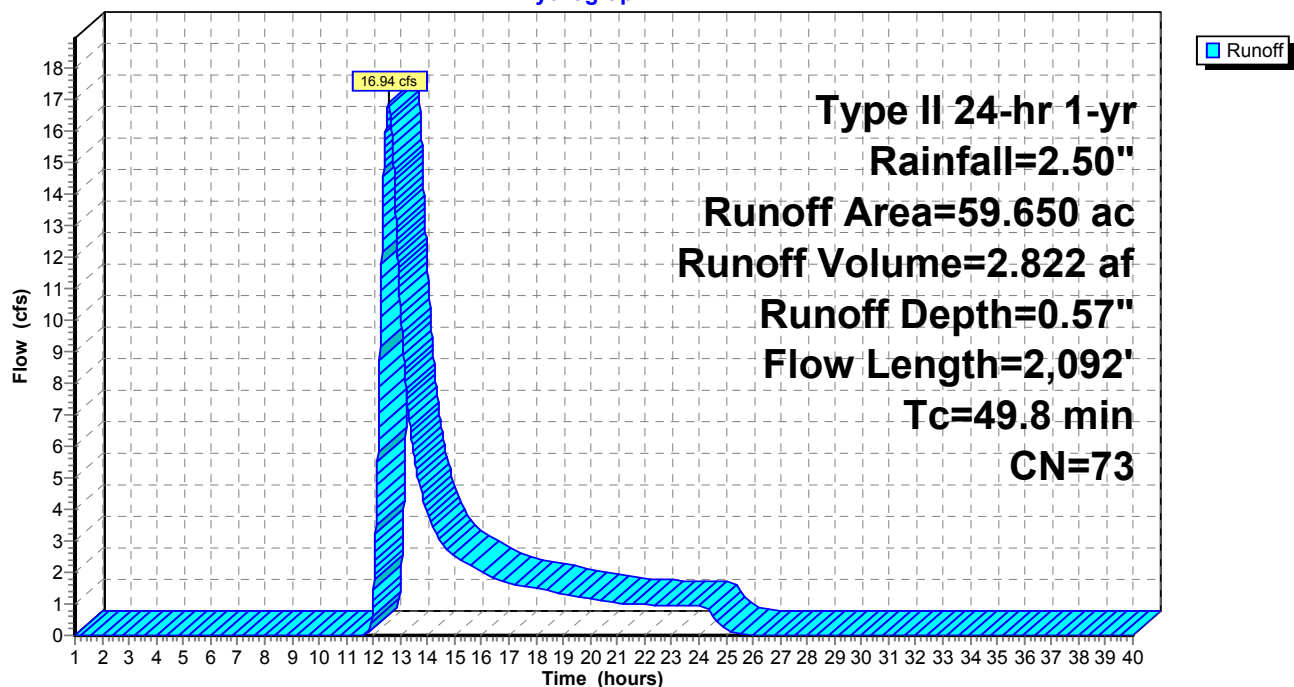
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
59.650	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	2,092	0.0200	0.7		Lag/CN Method,

Subcatchment W89: W89

Hydrograph



Subcatchment W90: W90

Runoff = 10.65 cfs @ 13.39 hrs, Volume= 3.333 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

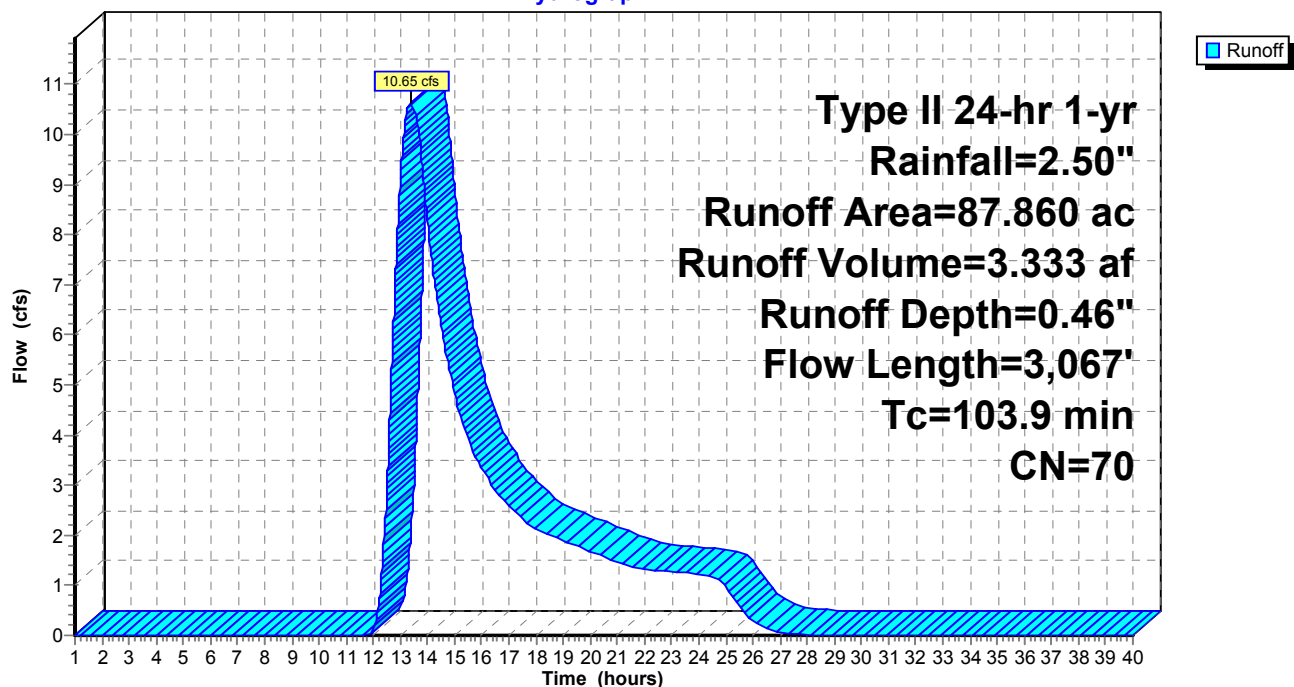
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
87.860	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
103.9	3,067	0.0100	0.5		Lag/CN Method,

Subcatchment W90: W90

Hydrograph



Subcatchment W91: W91

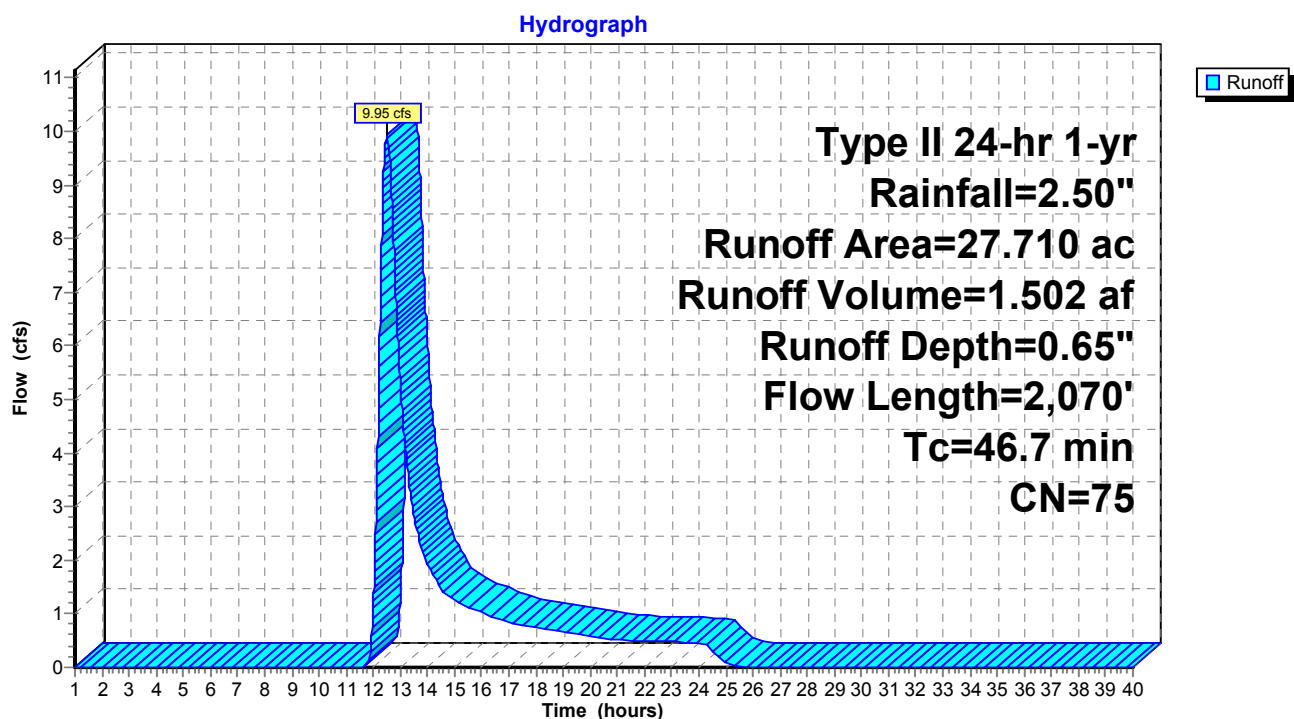
Runoff = 9.95 cfs @ 12.51 hrs, Volume= 1.502 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
27.710	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	2,070	0.0200	0.7		Lag/CN Method,

Subcatchment W91: W91

Subcatchment W92: W92

Runoff = 8.76 cfs @ 12.26 hrs, Volume= 1.051 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

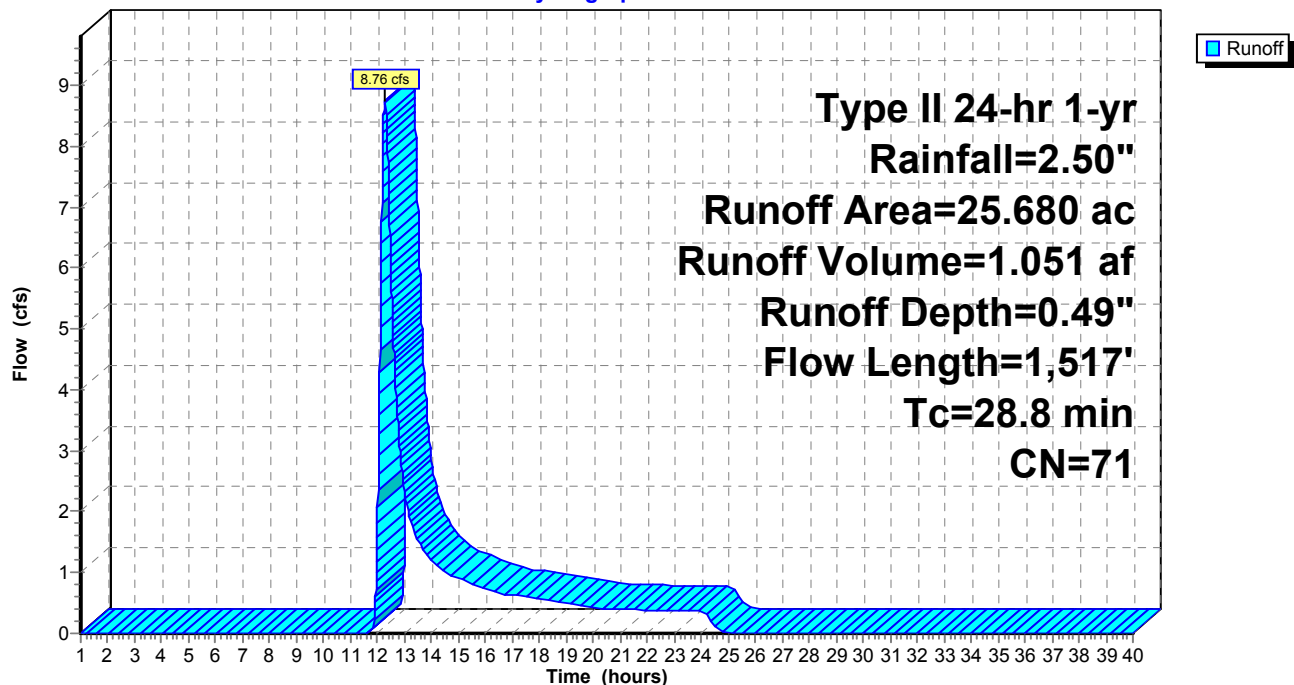
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
25.680	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	1,517	0.0400	0.9		Lag/CN Method,

Subcatchment W92: W92

Hydrograph



Subcatchment W93: W93

Runoff = 0.82 cfs @ 11.99 hrs, Volume= 0.062 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

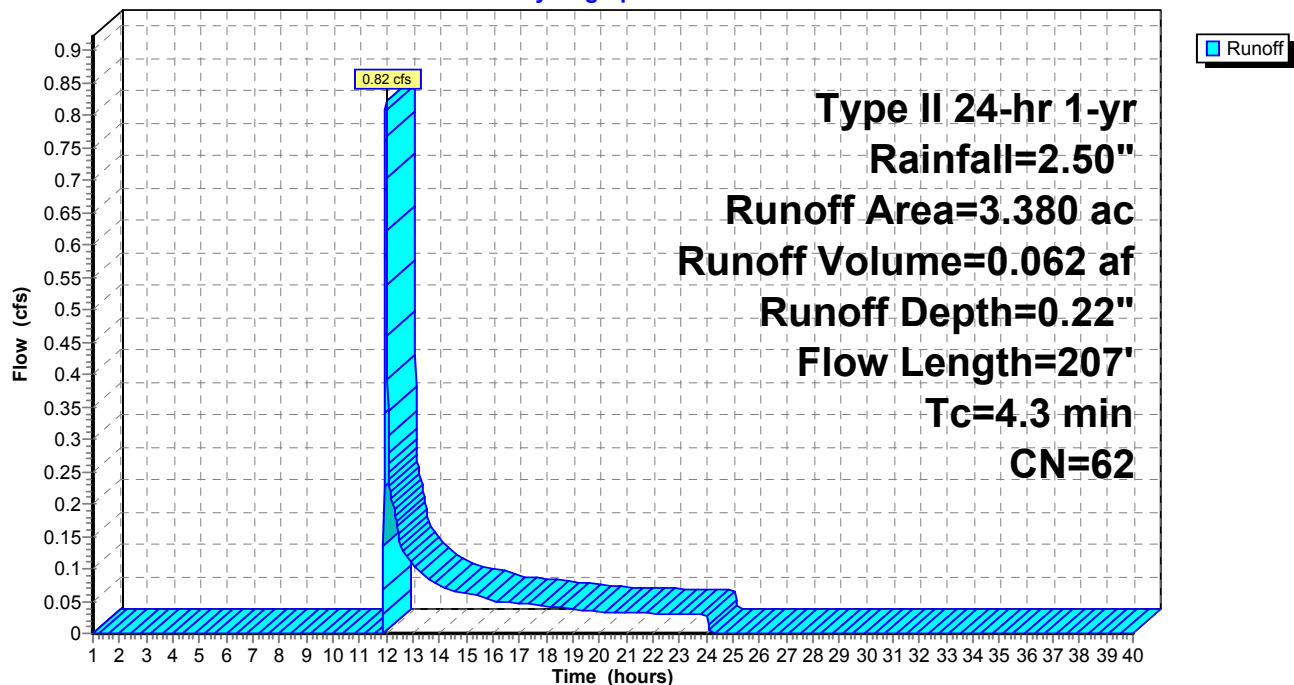
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
3.380	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	207	0.1200	0.8		Lag/CN Method,

Subcatchment W93: W93

Hydrograph



Subcatchment W94: W94

Runoff = 2.28 cfs @ 12.70 hrs, Volume= 0.619 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

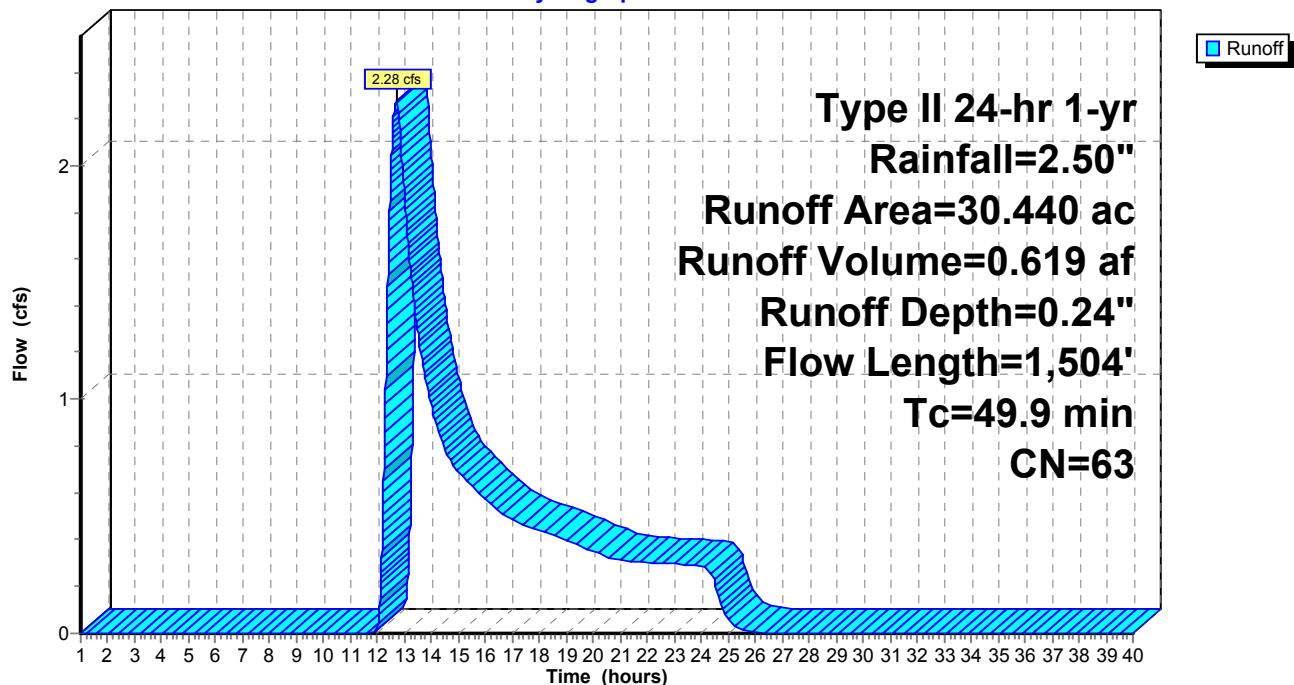
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
30.440	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.9	1,504	0.0200	0.5		Lag/CN Method,

Subcatchment W94: W94

Hydrograph



Subcatchment W95: W95

Runoff = 0.00 cfs @ 24.05 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

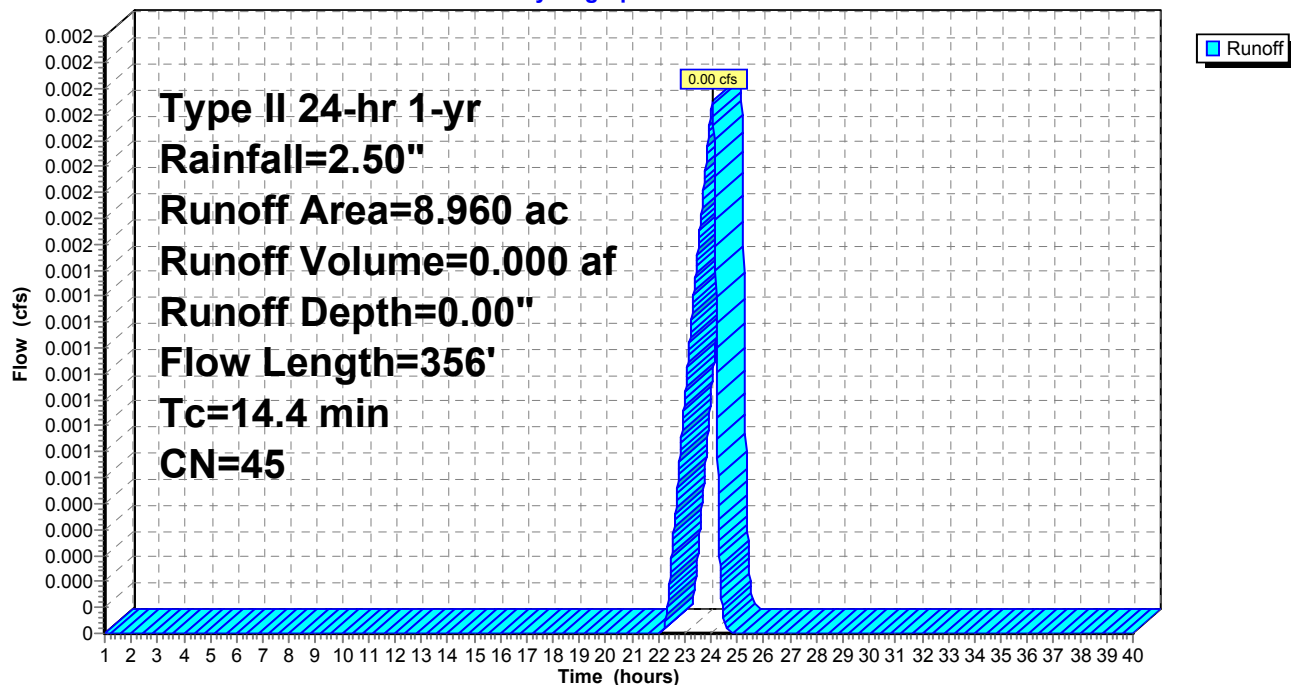
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
8.960	45	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.4	356	0.0600	0.4		Lag/CN Method,

Subcatchment W95: W95

Hydrograph



Subcatchment W96: W96

Runoff = 10.43 cfs @ 12.19 hrs, Volume= 0.896 af, Depth= 0.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

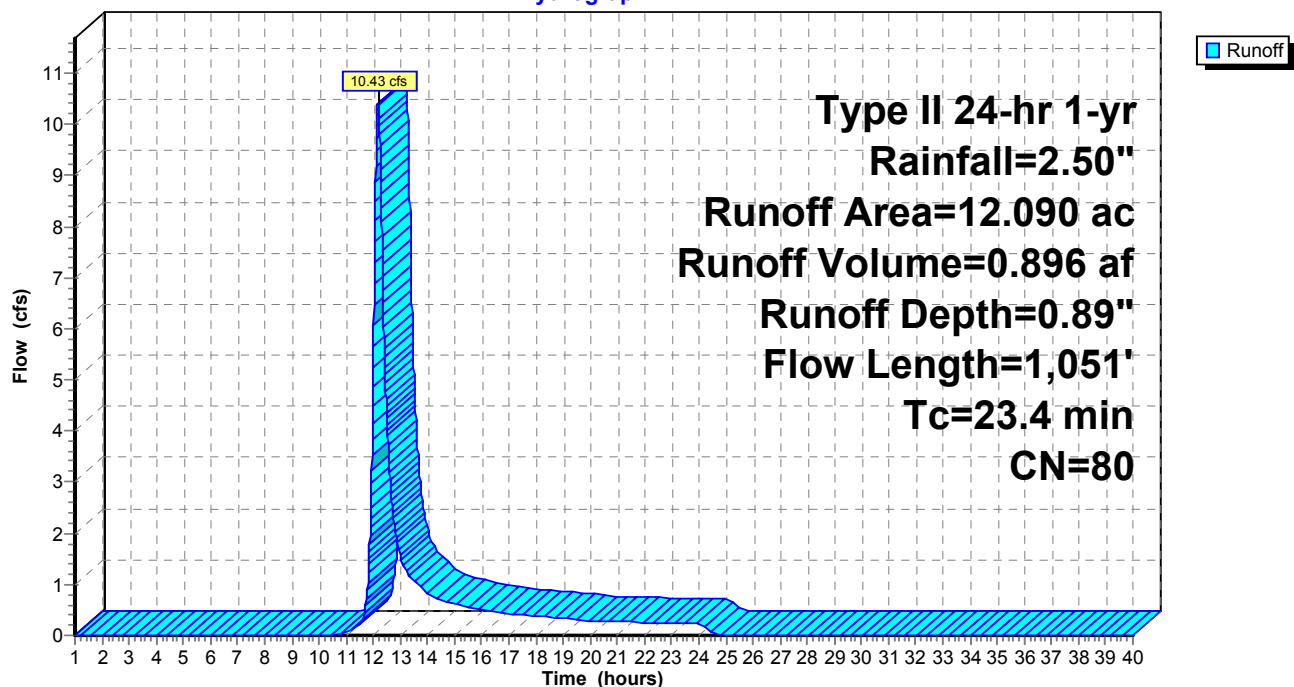
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
12.090	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,051	0.0200	0.7		Lag/CN Method,

Subcatchment W96: W96

Hydrograph



Subcatchment W97: W97

Runoff = 4.96 cfs @ 12.03 hrs, Volume= 0.302 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

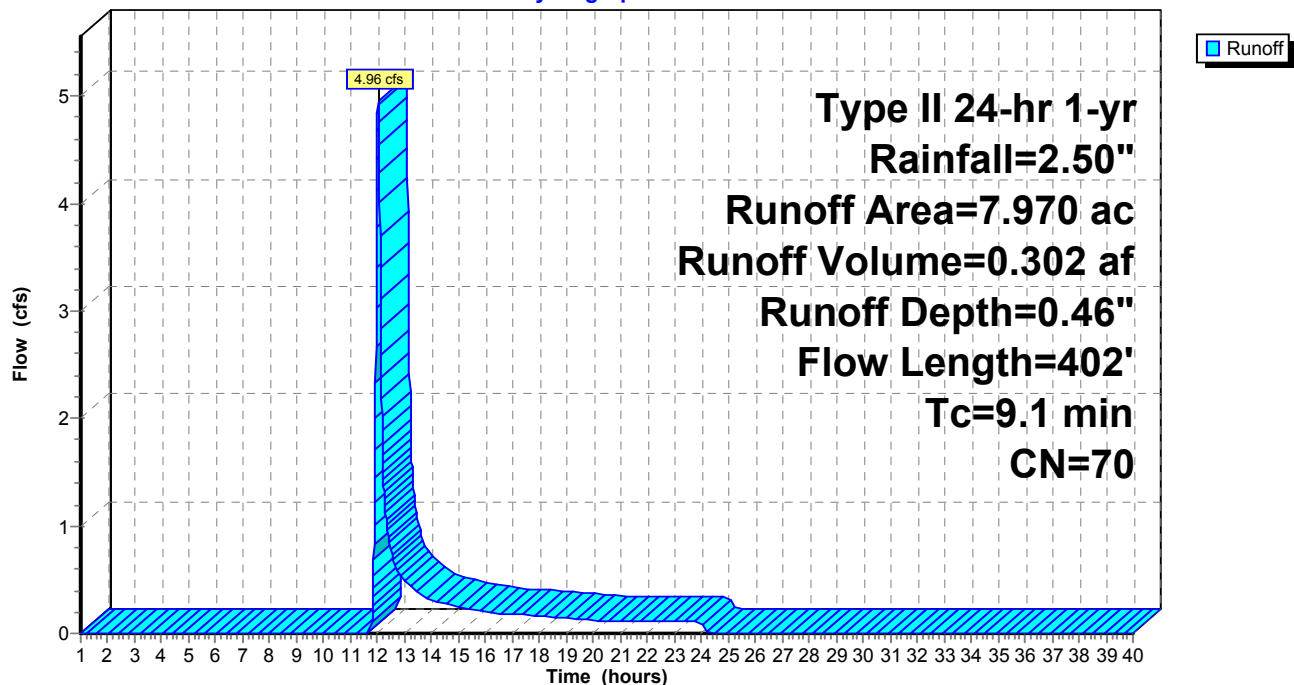
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
7.970	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	402	0.0500	0.7		Lag/CN Method,

Subcatchment W97: W97

Hydrograph



Subcatchment W98: W98

Runoff = 0.53 cfs @ 12.33 hrs, Volume= 0.140 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

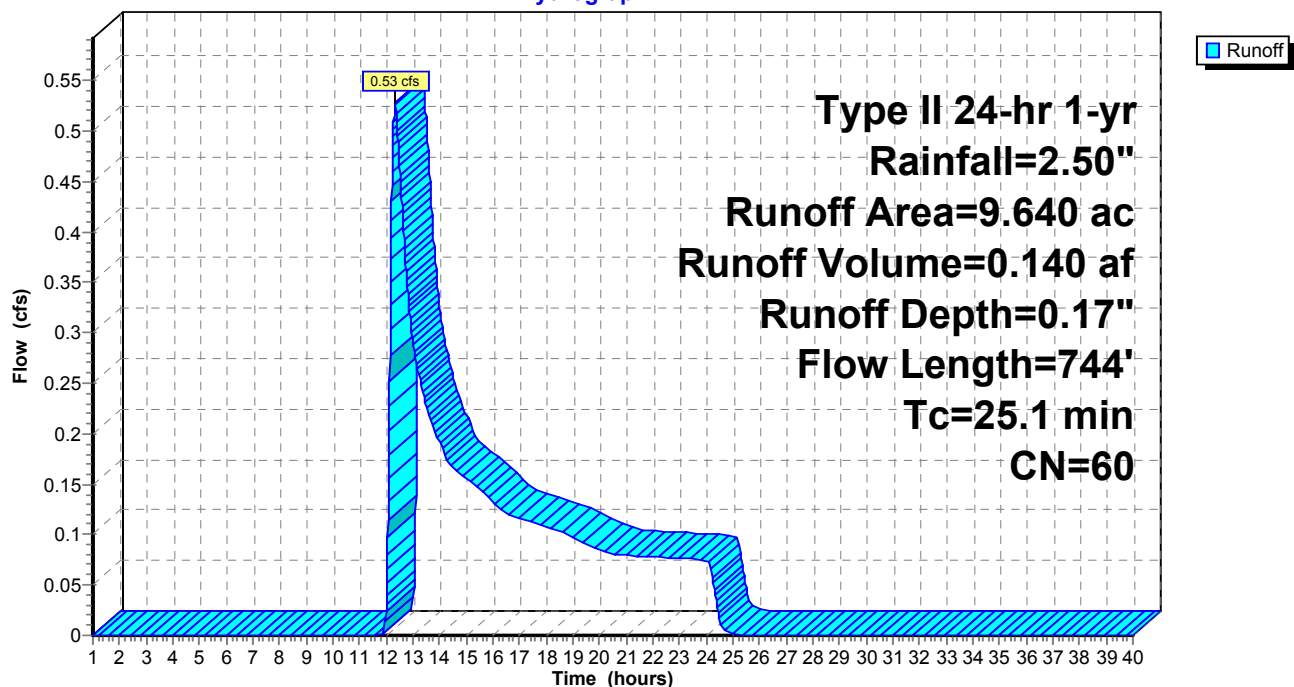
Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
9.640	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	744	0.0300	0.5		Lag/CN Method,

Subcatchment W98: W98

Hydrograph



Subcatchment W99: W99

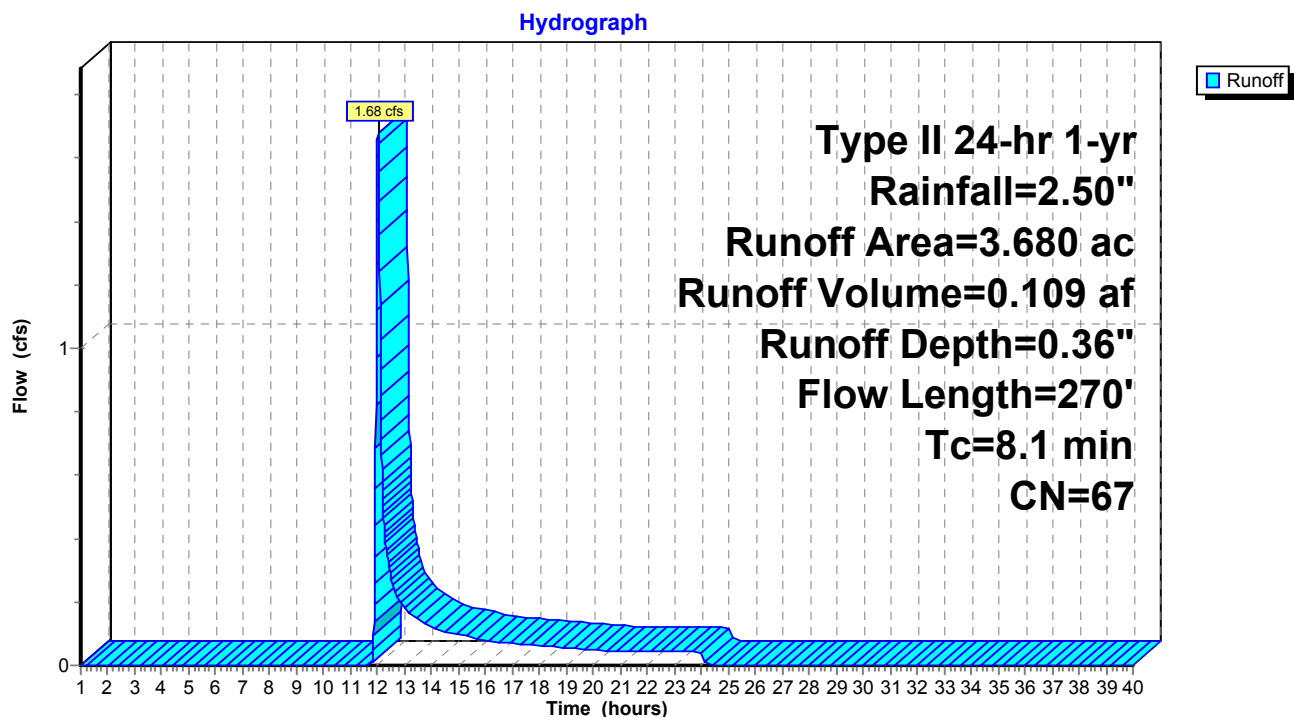
Runoff = 1.68 cfs @ 12.02 hrs, Volume= 0.109 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 1-yr Rainfall=2.50"

Area (ac)	CN	Description
3.680	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	270	0.0400	0.6		Lag/CN Method,

Subcatchment W99: W99

Reach 4R: (new Reach)

Inflow Area = 47.571 ac, Inflow Depth > 0.15" for 1-yr event
 Inflow = 0.35 cfs @ 24.14 hrs, Volume= 0.577 af
 Outflow = 0.35 cfs @ 24.26 hrs, Volume= 0.571 af, Atten= 0%, Lag= 7.1 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 0.9 fps, Min. Travel Time= 18.0 min

Avg. Velocity = 0.8 fps, Avg. Travel Time= 20.6 min

Peak Depth= 0.08' @ 24.26 hrs

Capacity at bank full= 1,161.31 cfs

Inlet Invert= 980.00', Outlet Invert= 968.00'

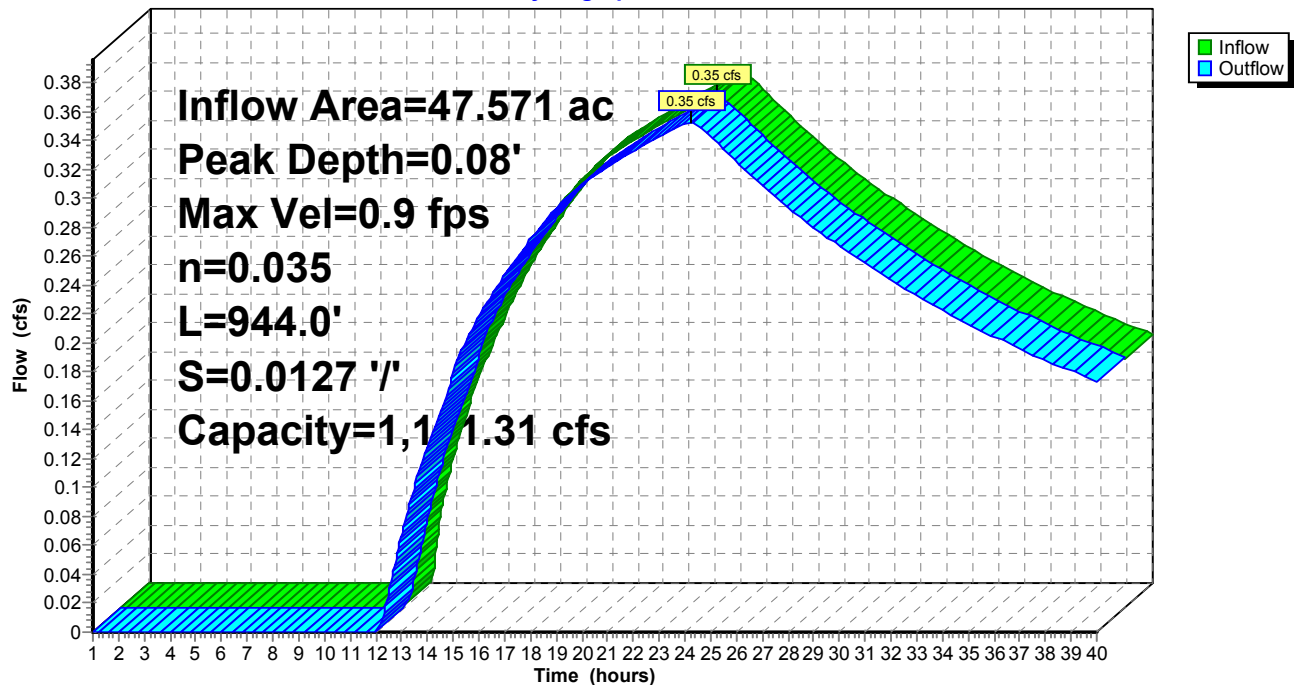
5.00' x 5.00' deep channel, n= 0.035 Earth, dense weeds

Side Slope Z-value= 4.0 ' Top Width= 45.00'

Length= 944.0' Slope= 0.0127 ' '

Reach 4R: (new Reach)

Hydrograph



Reach 6R: (new Reach)

Inflow Area = 18.570 ac, Inflow Depth = 0.70" for 1-yr event
Inflow = 51.53 cfs @ 11.95 hrs, Volume= 1.088 af
Outflow = 23.97 cfs @ 12.00 hrs, Volume= 1.088 af, Atten= 53%, Lag= 2.9 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.7 fps, Min. Travel Time= 3.1 min

Avg. Velocity = 0.8 fps, Avg. Travel Time= 10.0 min

Peak Depth= 1.06' @ 12.00 hrs

Capacity at bank full= 20.54 cfs

Inlet Invert= 1,108.00', Outlet Invert= 1,070.00'

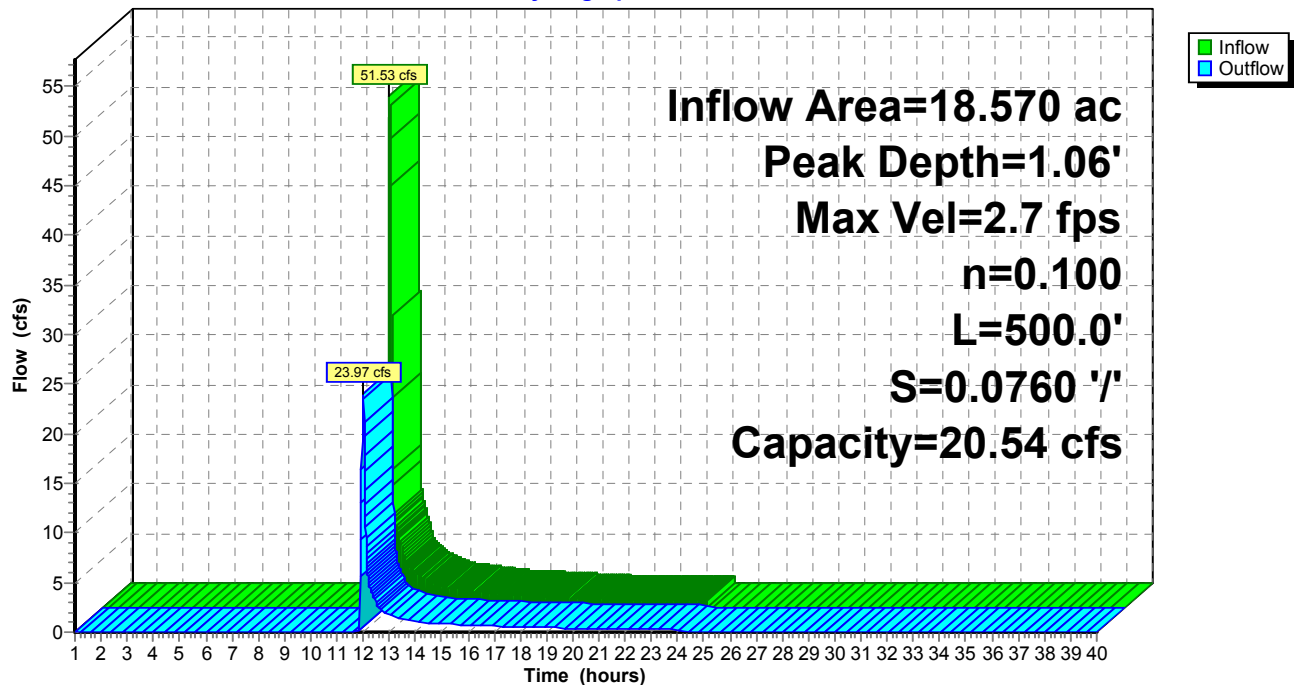
0.00' x 1.00' deep channel, n= 0.100 Earth, dense brush, high stage

Side Slope Z-value= 8.0 '/' Top Width= 16.00'

Length= 500.0' Slope= 0.0760 '/'

Reach 6R: (new Reach)

Hydrograph



Reach A1R: A1R

Inflow Area = 36.474 ac, Inflow Depth > 0.14" for 1-yr event
 Inflow = 0.28 cfs @ 24.44 hrs, Volume= 0.423 af
 Outflow = 0.28 cfs @ 24.55 hrs, Volume= 0.420 af, Atten= 0%, Lag= 6.3 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.4 fps, Min. Travel Time= 12.1 min

Avg. Velocity= 1.2 fps, Avg. Travel Time= 14.1 min

Peak Depth= 0.06' @ 24.55 hrs

Capacity at bank full= 330.73 cfs

Inlet Invert= 1,092.50', Outlet Invert= 1,061.00'

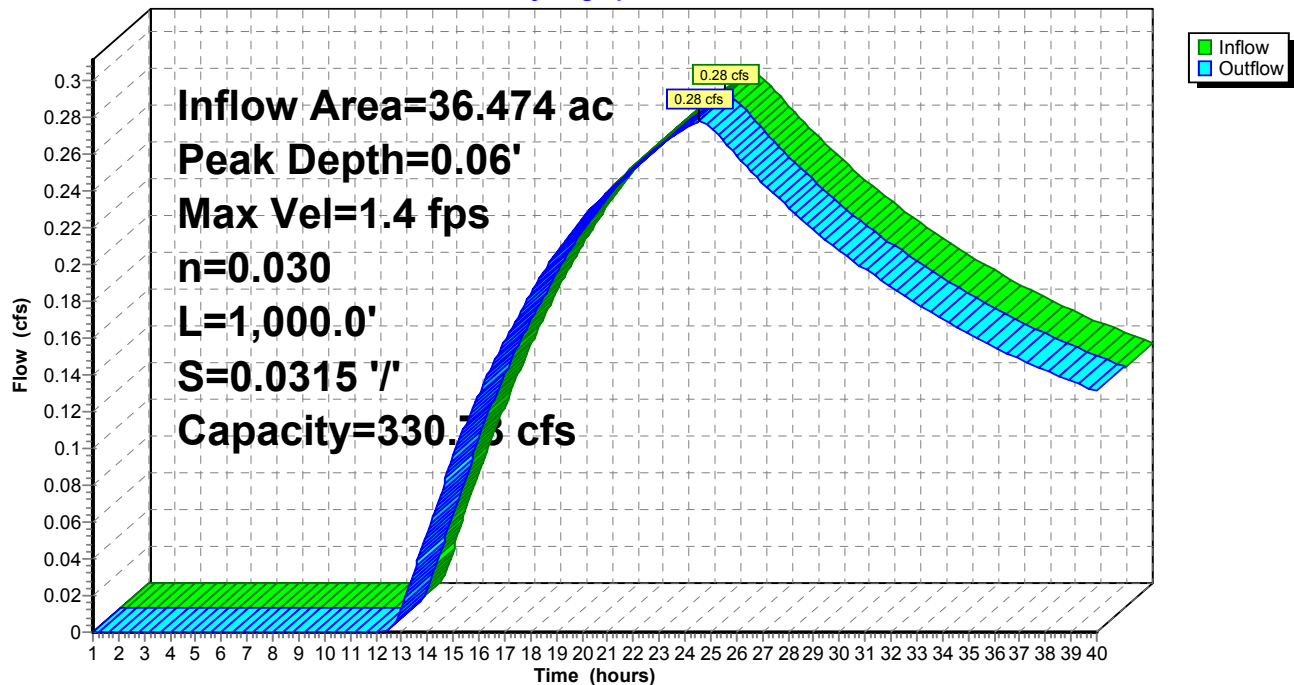
3.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 15.00'

Length= 1,000.0' Slope= 0.0315 '/'

Reach A1R: A1R

Hydrograph



Reach A4R: A4R

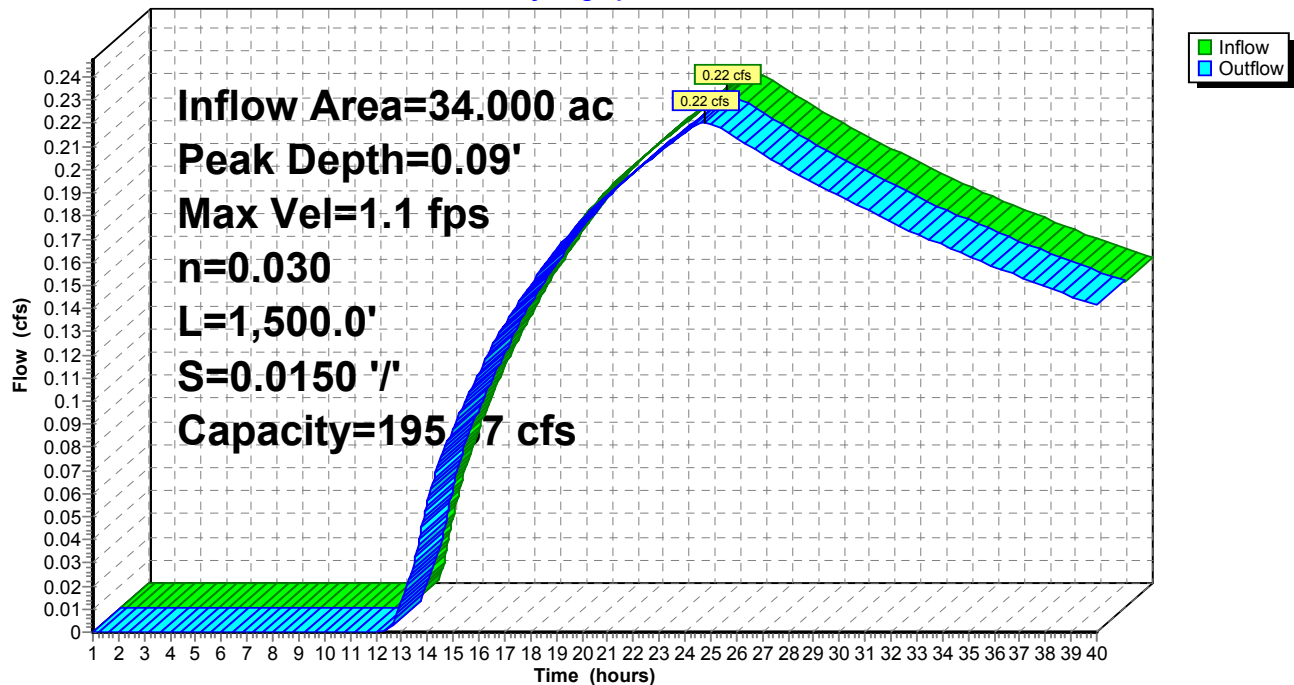
Inflow Area = 34.000 ac, Inflow Depth > 0.13" for 1-yr event
 Inflow = 0.22 cfs @ 24.50 hrs, Volume= 0.375 af
 Outflow = 0.22 cfs @ 24.75 hrs, Volume= 0.370 af, Atten= 0%, Lag= 14.6 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.1 fps, Min. Travel Time= 22.0 min
Avg. Velocity = 1.0 fps, Avg. Travel Time= 24.8 min

Peak Depth= 0.09' @ 24.75 hrs
Capacity at bank full= 195.57 cfs
Inlet Invert= 1,083.50', Outlet Invert= 1,061.00'
2.00' x 3.00' deep channel, n= 0.030
Side Slope Z-value= 2.0 '/' Top Width= 14.00'
Length= 1,500.0' Slope= 0.0150 '/'

Reach A4R: A4R

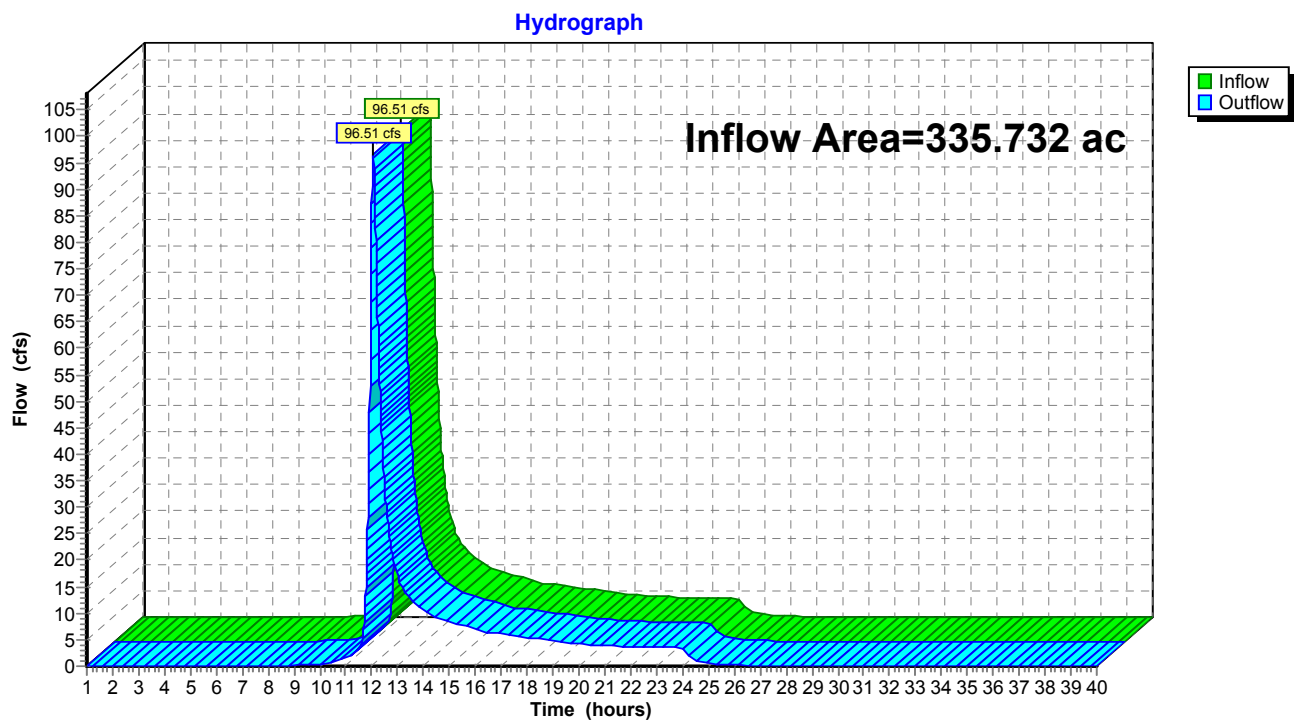
Hydrograph



Reach Apple River 1: Apple River-Above Dam

Inflow Area = 335.732 ac, Inflow Depth = 0.38" for 1-yr event
Inflow = 96.51 cfs @ 12.05 hrs, Volume= 10.510 af
Outflow = 96.51 cfs @ 12.05 hrs, Volume= 10.510 af, Atten= 0%, Lag= 0.0 min

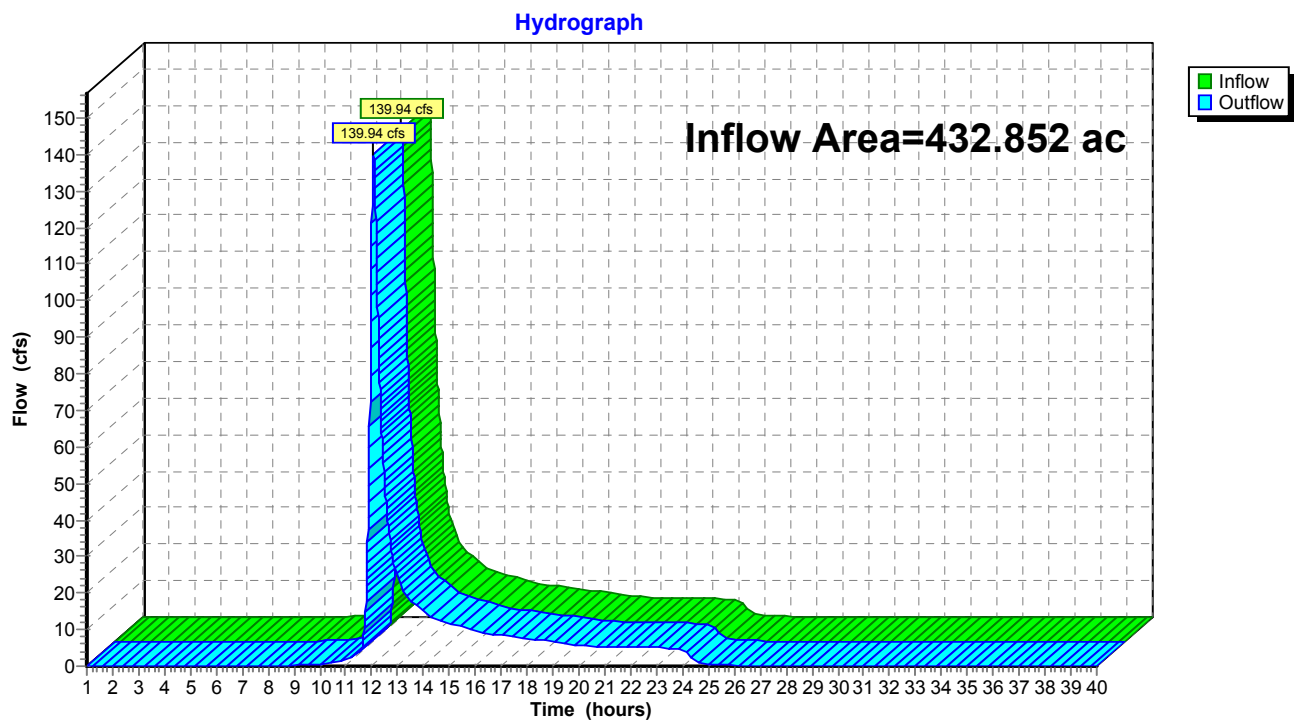
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 1: Apple River-Above Dam

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Inflow Area = 432.852 ac, Inflow Depth = 0.41" for 1-yr event
Inflow = 139.94 cfs @ 12.07 hrs, Volume= 14.764 af
Outflow = 139.94 cfs @ 12.07 hrs, Volume= 14.764 af, Atten= 0%, Lag= 0.0 min

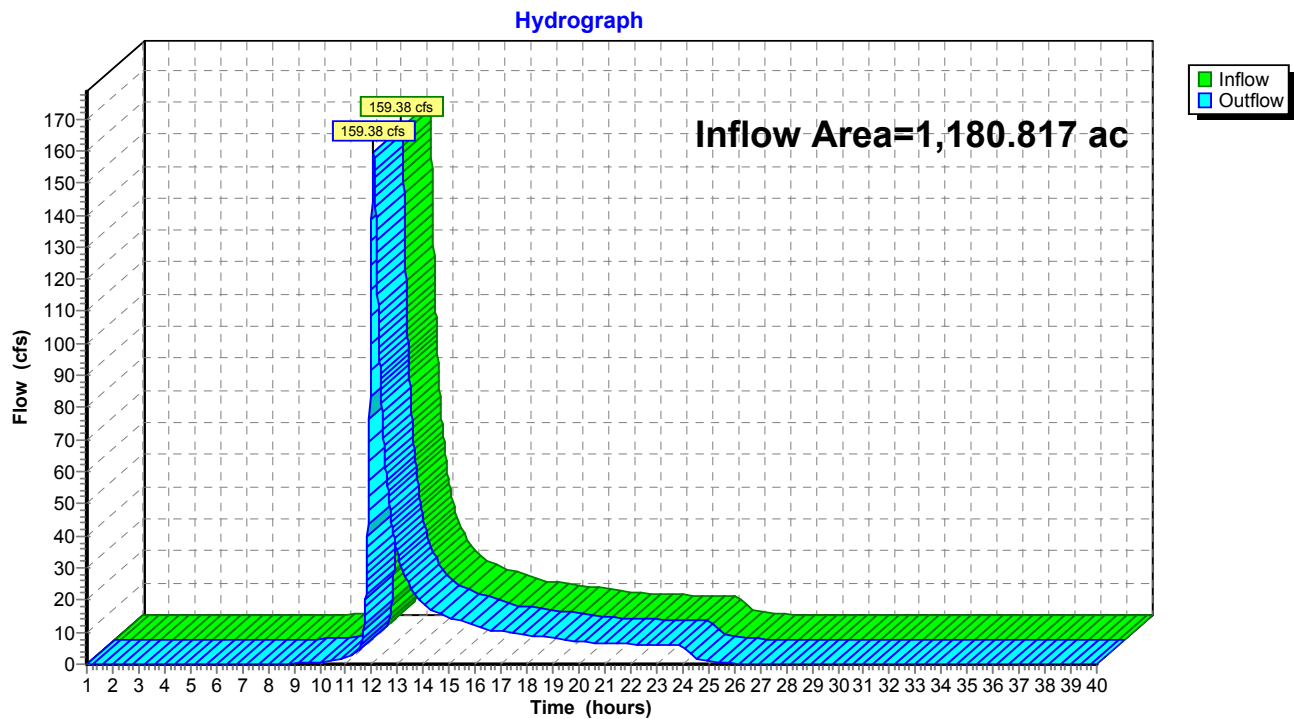
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Reach Apple River 3: Apple River - At South Twin Outlet

Inflow Area = 1,180.817 ac, Inflow Depth > 0.19" for 1-yr event
Inflow = 159.38 cfs @ 12.07 hrs, Volume= 18.225 af
Outflow = 159.38 cfs @ 12.07 hrs, Volume= 18.225 af, Atten= 0%, Lag= 0.0 min

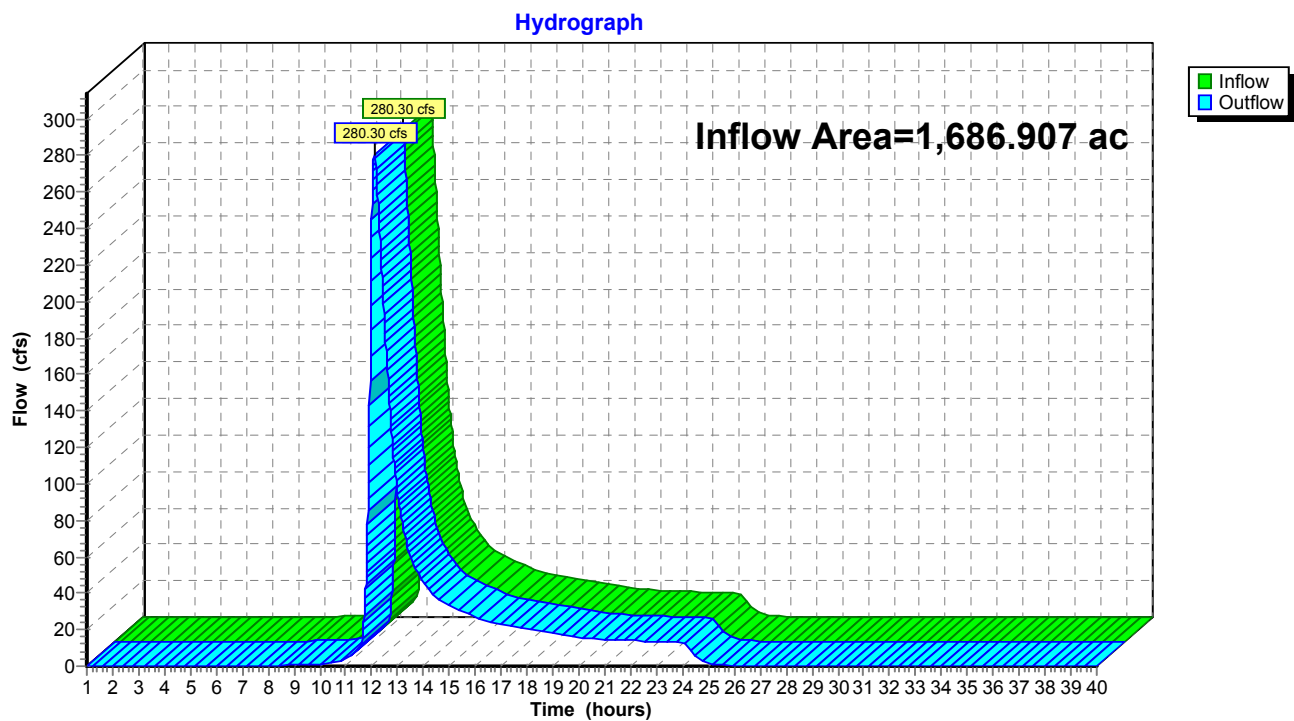
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 3: Apple River - At South Twin Outlet

Reach Apple River 4: Apple River Downstream of South Twin Outlet

Inflow Area = 1,686.907 ac, Inflow Depth > 0.30" for 1-yr event
Inflow = 280.30 cfs @ 12.10 hrs, Volume= 42.161 af
Outflow = 280.30 cfs @ 12.10 hrs, Volume= 42.161 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 4: Apple River Downstream of South Twin Outlet

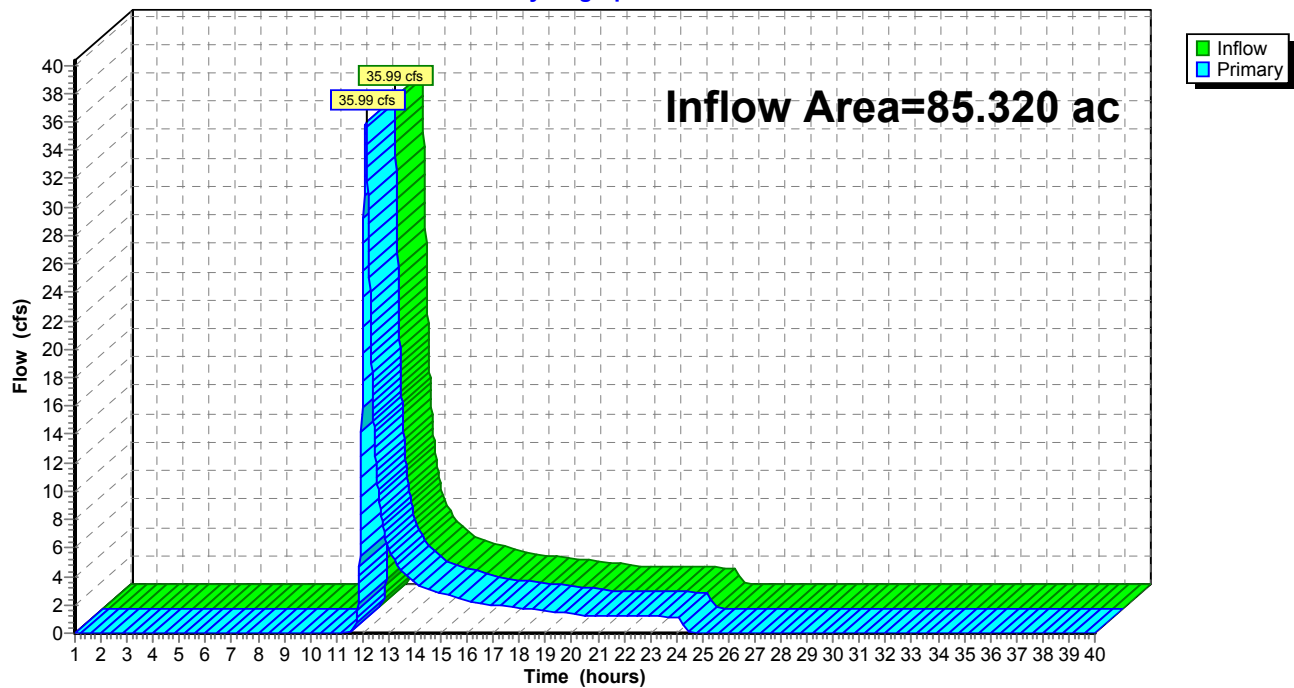
Pond 1P: (new Pond)

Inflow Area = 85.320 ac, Inflow Depth = 0.47" for 1-yr event
Inflow = 35.99 cfs @ 12.13 hrs, Volume= 3.369 af
Primary = 35.99 cfs @ 12.13 hrs, Volume= 3.369 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 1P: (new Pond)

Hydrograph



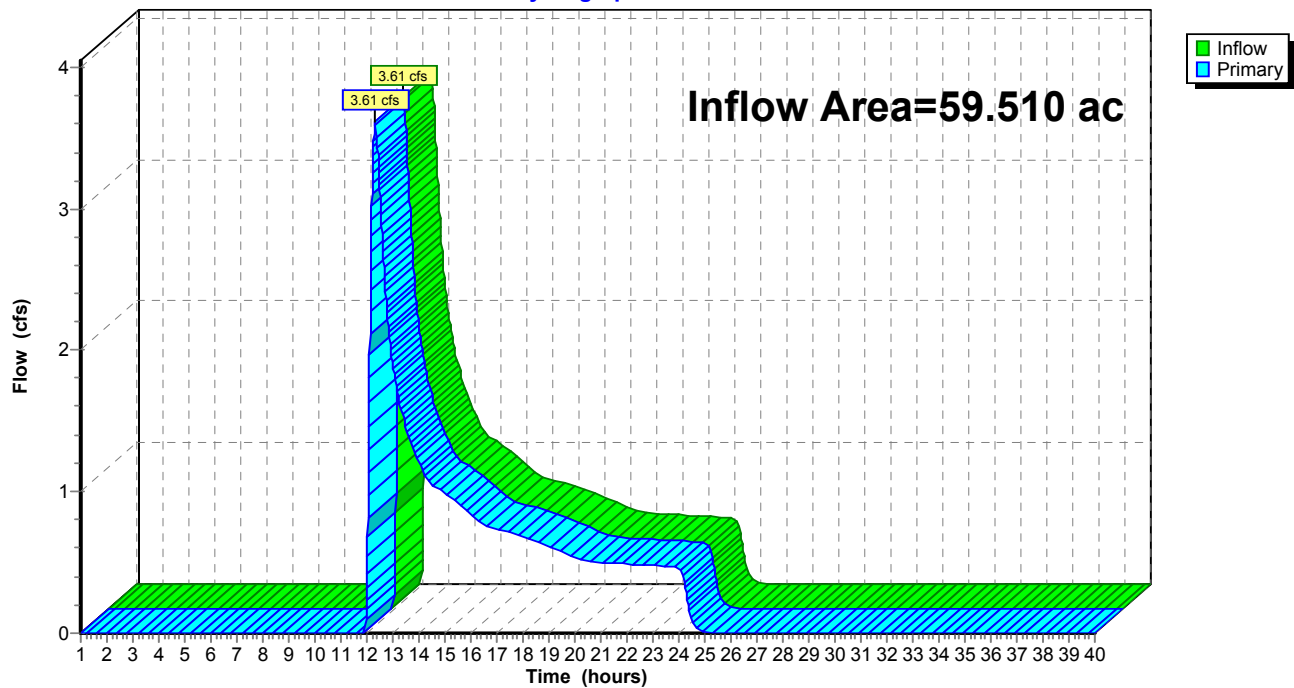
Pond 2P: (new Pond)

Inflow Area = 59.510 ac, Inflow Depth = 0.18" for 1-yr event
Inflow = 3.61 cfs @ 12.32 hrs, Volume= 0.901 af
Primary = 3.61 cfs @ 12.32 hrs, Volume= 0.901 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 2P: (new Pond)

Hydrograph



Pond 3P: (new Pond)

Inflow Area = 47.571 ac, Inflow Depth = 0.30" for 1-yr event
 Inflow = 12.57 cfs @ 12.09 hrs, Volume= 1.179 af
 Outflow = 0.35 cfs @ 24.14 hrs, Volume= 0.577 af, Atten= 97%, Lag= 723.1 min
 Primary = 0.35 cfs @ 24.14 hrs, Volume= 0.577 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.19' @ 24.14 hrs Surf.Area= 214,177 sf Storage= 40,288 cf
 Plug-Flow detention time= 799.7 min calculated for 0.577 af (49% of inflow)
 Center-of-Mass det. time= 626.2 min (1,556.8 - 930.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,068.00'	4,623,972 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

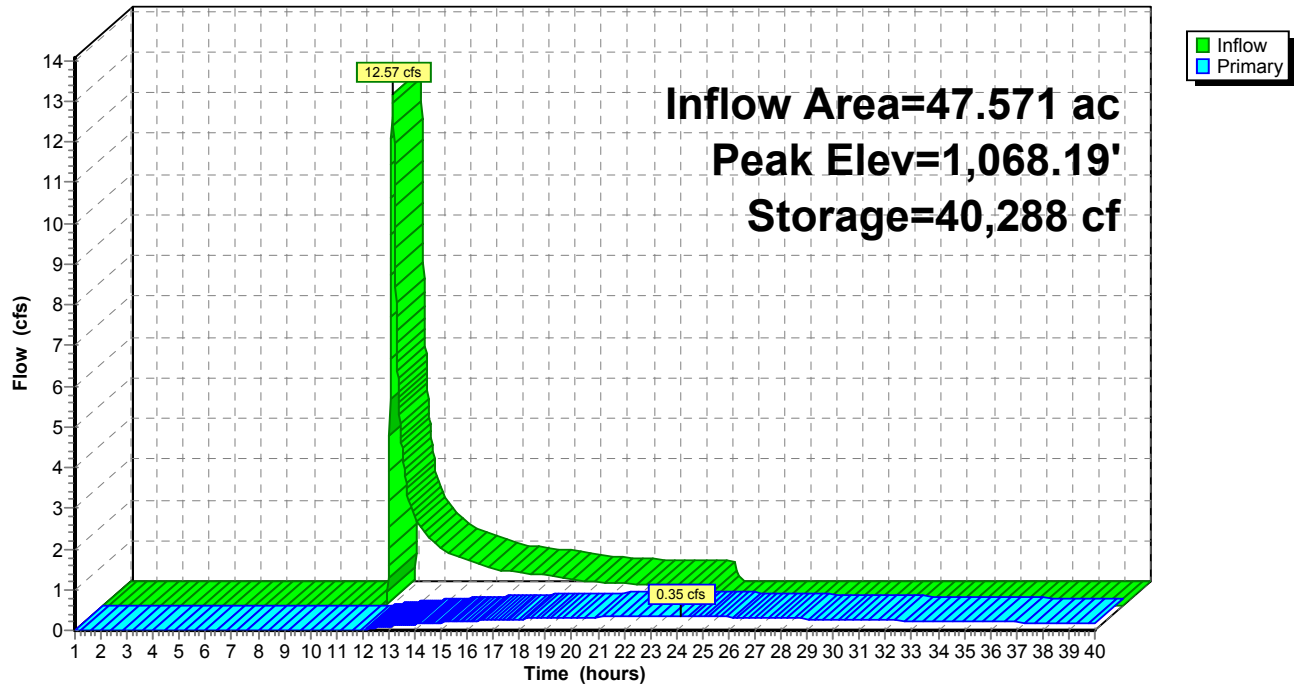
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,068.00	208,562	0	0
1,080.00	562,100	4,623,972	4,623,972

Device	Routing	Invert	Outlet Devices
#1	Primary	1,068.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 10.00 Width (feet) 1.00 40.00

Primary OutFlow Max=0.35 cfs @ 24.14 hrs HW=1,068.19' TW=980.08' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Weir Controls 0.35 cfs @ 1.4 fps)

Pond 3P: (new Pond)

Hydrograph



Pond 5P: (new Pond)

Inflow Area = 18.570 ac, Inflow Depth = 0.84" for 1-yr event
 Inflow = 29.96 cfs @ 11.95 hrs, Volume= 1.296 af
 Outflow = 51.53 cfs @ 11.95 hrs, Volume= 1.088 af, Atten= 0%, Lag= 0.0 min
 Primary = 51.53 cfs @ 11.95 hrs, Volume= 1.088 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,121.07' @ 11.95 hrs Surf.Area= 9,060 sf Storage= 9,060 cf
 Plug-Flow detention time= 102.9 min calculated for 1.088 af (84% of inflow)
 Center-of-Mass det. time= 28.5 min (883.3 - 854.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,107.00'	9,060 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

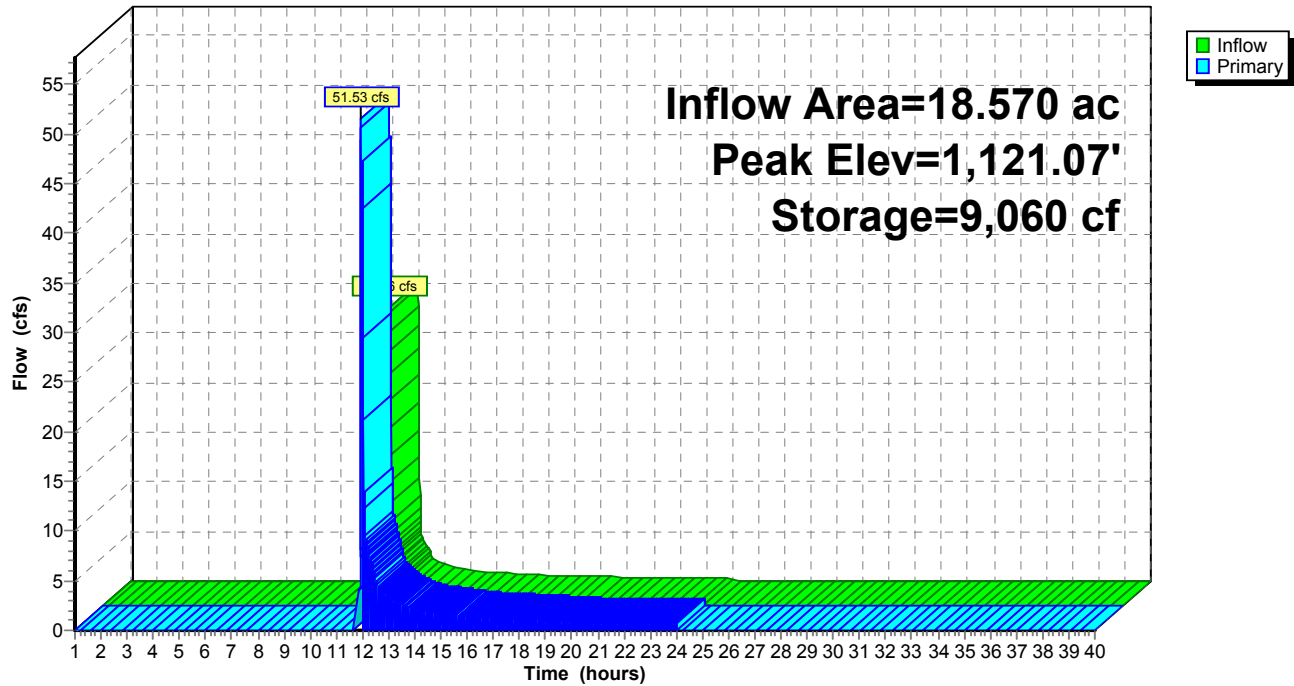
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,107.00	9,060	0	0
1,108.00	9,060	9,060	9,060

Device	Routing	Invert	Outlet Devices
#1	Primary	1,107.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 1.00 Width (feet) 1.00 5.00

Primary OutFlow Max=51.26 cfs @ 11.95 hrs HW=1,121.02' TW=1,108.92' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Orifice Controls 51.26 cfs @ 17.1 fps)

Pond 5P: (new Pond)

Hydrograph



AMERY_1207

Type II 24-hr 1-yr Rainfall=2.50"

Prepared by {enter your company name here}

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Pond A10P: A10P

Inflow Area = 9.300 ac, Inflow Depth = 0.42" for 1-yr event
 Inflow = 5.82 cfs @ 12.00 hrs, Volume= 0.326 af
 Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.18' @ 24.40 hrs Surf.Area= 60,888 sf Storage= 14,207 cf
 Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

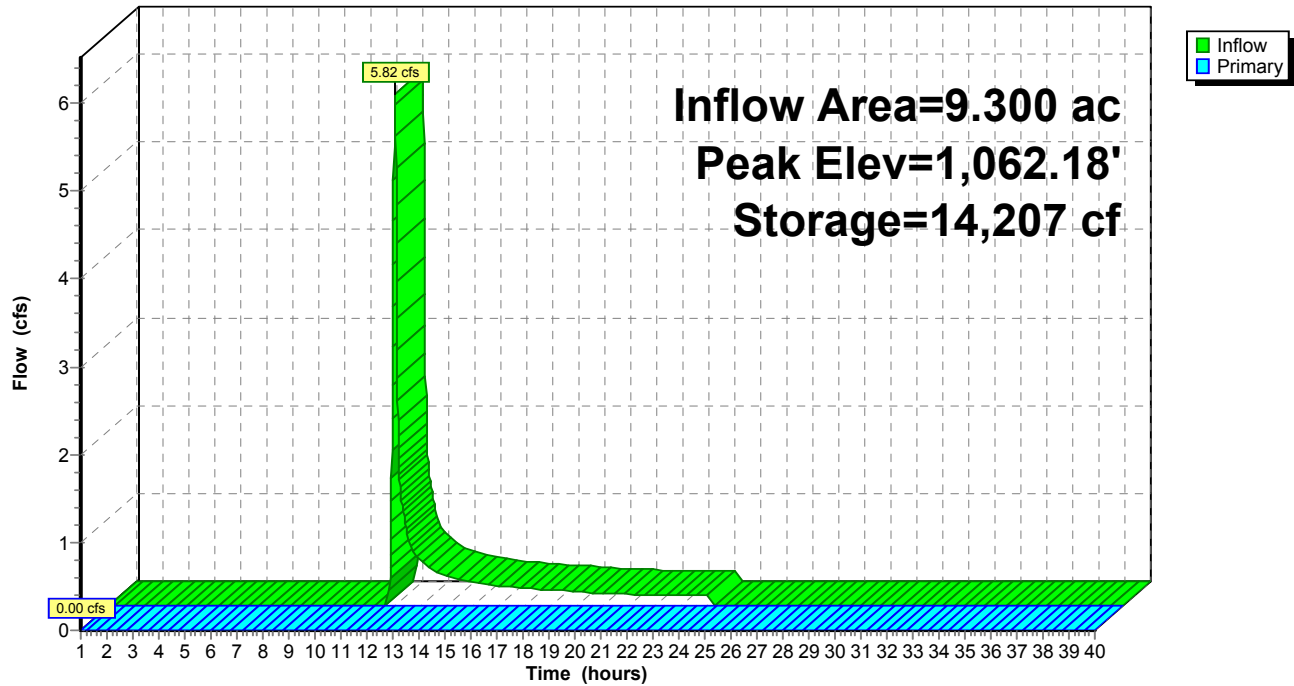
Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	640,000 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	60,000	0	0
1,070.00	100,000	640,000	640,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,070.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=1,062.00' TW=1,060.80' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond A10P: A10P**Hydrograph**

Pond A1P: WETLAND PONDS

Inflow Area = 36.474 ac, Inflow Depth = 0.36" for 1-yr event
 Inflow = 6.18 cfs @ 12.44 hrs, Volume= 1.083 af
 Outflow = 0.28 cfs @ 24.44 hrs, Volume= 0.423 af, Atten= 95%, Lag= 720.2 min
 Primary = 0.28 cfs @ 24.44 hrs, Volume= 0.423 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,092.90' @ 24.45 hrs Surf.Area= 82,237 sf Storage= 39,200 cf
 Plug-Flow detention time= 831.6 min calculated for 0.423 af (39% of inflow)
 Center-of-Mass det. time= 649.4 min (1,590.8 - 941.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,092.50'	243,750 cf	Custom Stage Data (Prismatic) Listed below

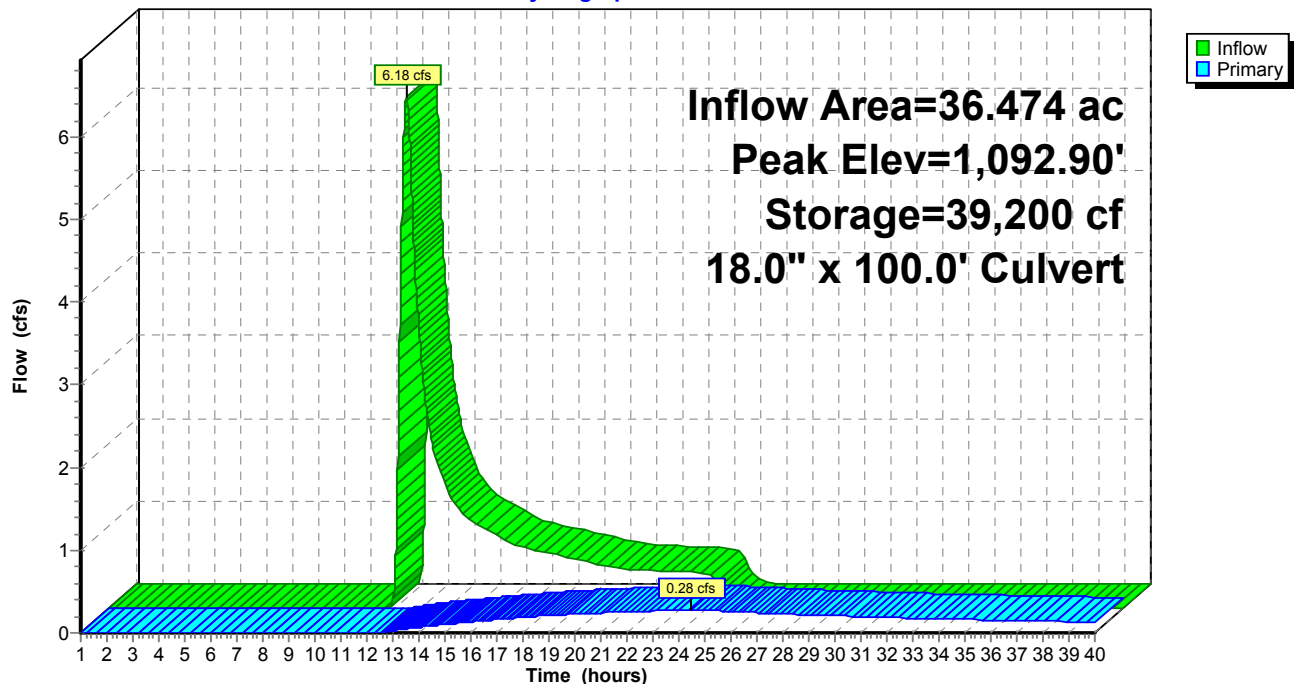
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,092.50	75,000	0	0
1,095.00	120,000	243,750	243,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,092.50'	18.0" x 100.0' long Culvert Ke= 0.700 Outlet Invert= 1,091.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.28 cfs @ 24.44 hrs HW=1,092.90' TW=1,092.56' (Dynamic Tailwater)
 ↑1=Culvert (Outlet Controls 0.28 cfs @ 1.1 fps)

Pond A1P: WETLAND PONDS

Hydrograph



Pond A4P: A4P

Inflow Area = 34.000 ac, Inflow Depth = 0.46" for 1-yr event
 Inflow = 8.99 cfs @ 12.37 hrs, Volume= 1.290 af
 Outflow = 0.22 cfs @ 24.50 hrs, Volume= 0.375 af, Atten= 98%, Lag= 727.8 min
 Primary = 0.22 cfs @ 24.50 hrs, Volume= 0.375 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,084.27' @ 24.50 hrs Surf.Area= 158,228 sf Storage= 49,555 cf
 Plug-Flow detention time= 875.1 min calculated for 0.375 af (29% of inflow)
 Center-of-Mass det. time= 696.0 min (1,617.8 - 921.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,084.00'	368,635 cf	Custom Stage Data (Prismatic) Listed below

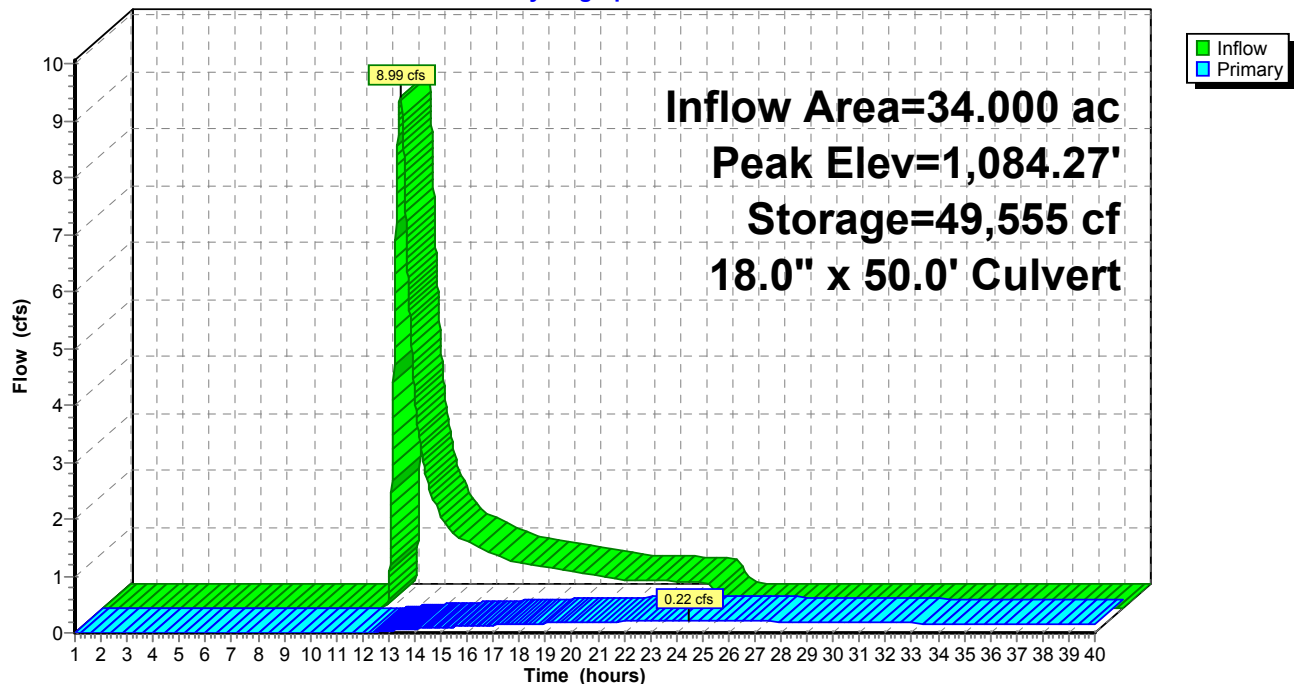
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,084.00	148,635	0	0
1,086.00	220,000	368,635	368,635

Device	Routing	Invert	Outlet Devices
#1	Primary	1,084.00'	18.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,083.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.22 cfs @ 24.50 hrs HW=1,084.27' TW=1,083.59' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.22 cfs @ 1.6 fps)

Pond A4P: A4P

Hydrograph



Pond B6P: WETPONDS

Inflow Area = 16.070 ac, Inflow Depth = 0.39" for 1-yr event
 Inflow = 7.99 cfs @ 12.03 hrs, Volume= 0.519 af
 Outflow = 1.00 cfs @ 12.02 hrs, Volume= 0.519 af, Atten= 87%, Lag= 0.0 min
 Discarded = 1.00 cfs @ 12.02 hrs, Volume= 0.519 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.14' @ 12.74 hrs Surf.Area= 37,010 sf Storage= 5,528 cf
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 39.5 min (947.9 - 908.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.00'	153,798 cf	Custom Stage Data (Prismatic) Listed below

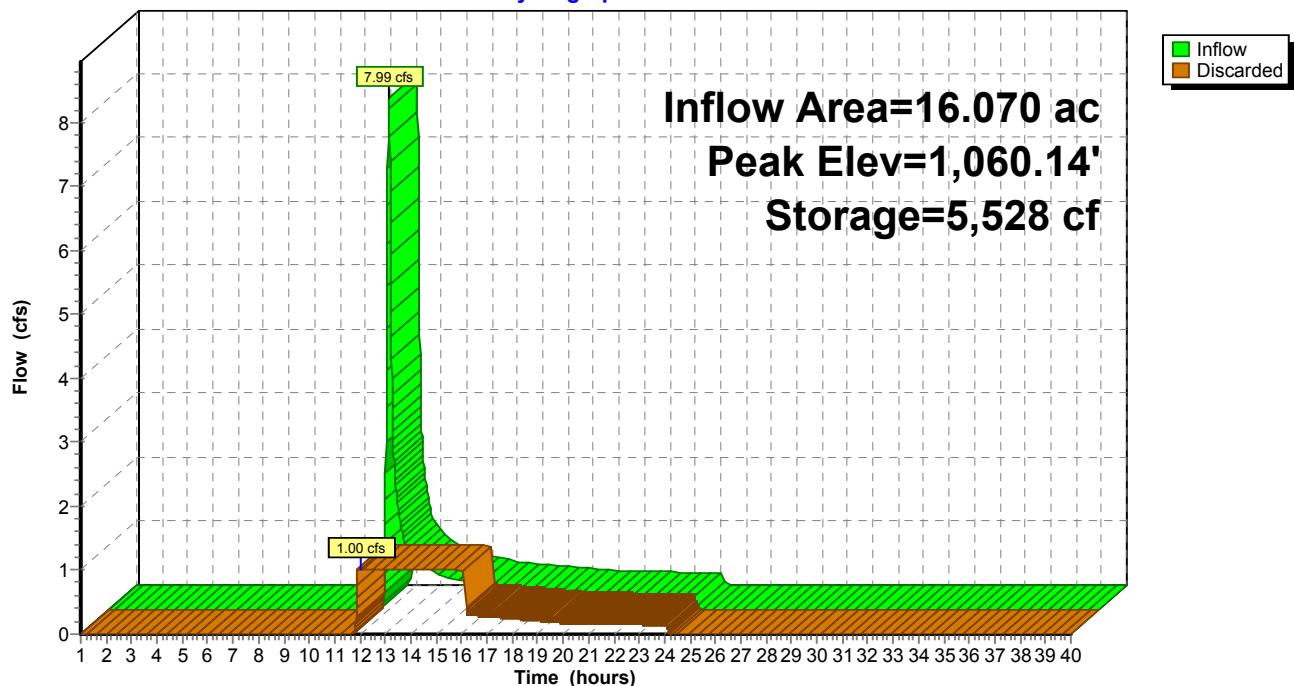
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,060.00	36,899	0	0
1,064.00	40,000	153,798	153,798

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	1.00 cfs Exfiltration at all elevations

Discarded OutFlow Max=1.00 cfs @ 12.02 hrs HW=1,060.05' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 1.00 cfs)

Pond B6P: WETPONDS

Hydrograph



Pond B7P: DRY POND

Inflow Area = 15.390 ac, Inflow Depth = 0.27" for 1-yr event
 Inflow = 1.69 cfs @ 12.46 hrs, Volume= 0.346 af
 Outflow = 0.64 cfs @ 13.41 hrs, Volume= 0.345 af, Atten= 62%, Lag= 57.3 min
 Primary = 0.64 cfs @ 13.41 hrs, Volume= 0.345 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.08' @ 13.41 hrs Surf.Area= 36,379 sf Storage= 3,413 cf
 Plug-Flow detention time= 115.9 min calculated for 0.345 af (99% of inflow)
 Center-of-Mass det. time= 113.5 min (1,072.4 - 958.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	81,000 cf	Custom Stage Data (Prismatic) Listed below

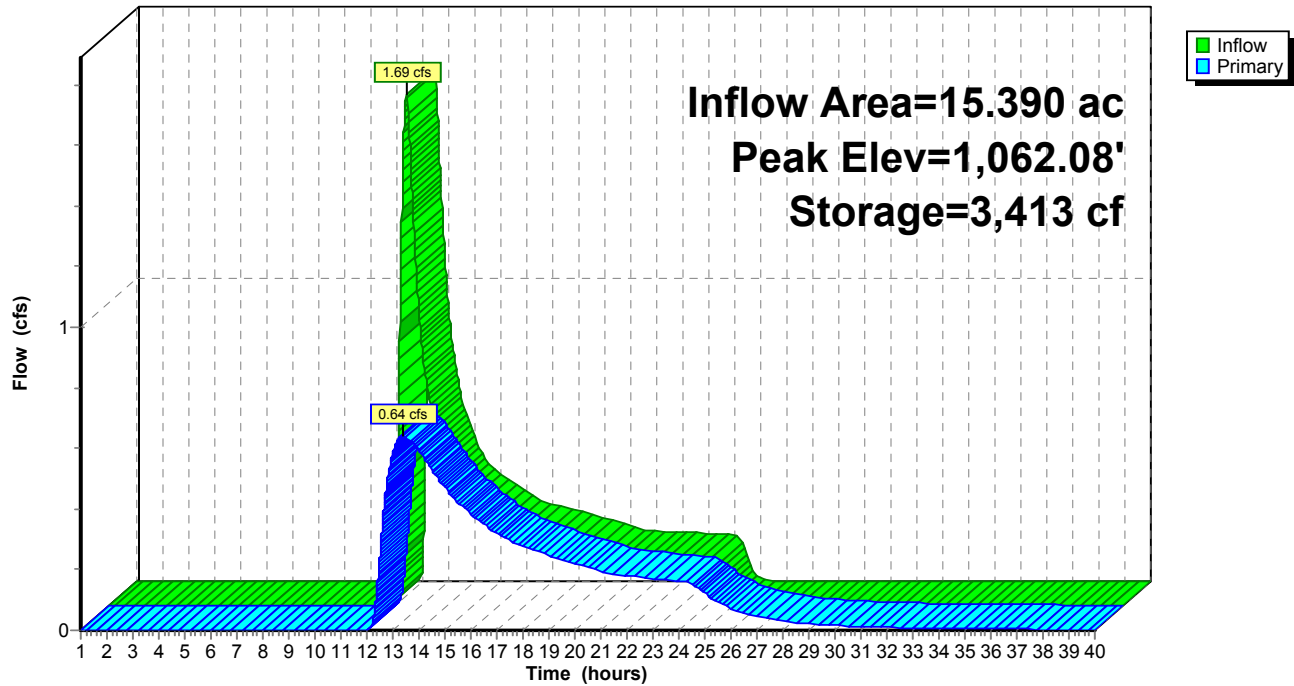
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	36,000	0	0
1,064.00	45,000	81,000	81,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=0.64 cfs @ 13.41 hrs HW=1,062.08' TW=1,060.82' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 0.64 cfs @ 0.8 fps)

Pond B7P: DRY POND

Hydrograph



Pond C4P: GOLF COURSE POND

Inflow Area = 20.070 ac, Inflow Depth = 0.27" for 1-yr event
 Inflow = 6.58 cfs @ 12.00 hrs, Volume= 0.452 af
 Outflow = 0.82 cfs @ 12.89 hrs, Volume= 0.449 af, Atten= 88%, Lag= 53.5 min
 Primary = 0.82 cfs @ 12.89 hrs, Volume= 0.449 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.08' @ 12.89 hrs Surf.Area= 55,360 sf Storage= 4,578 cf
 Plug-Flow detention time= 120.8 min calculated for 0.449 af (99% of inflow)
 Center-of-Mass det. time= 118.3 min (1,049.7 - 931.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,063.00'	147,275 cf	Custom Stage Data (Prismatic) Listed below

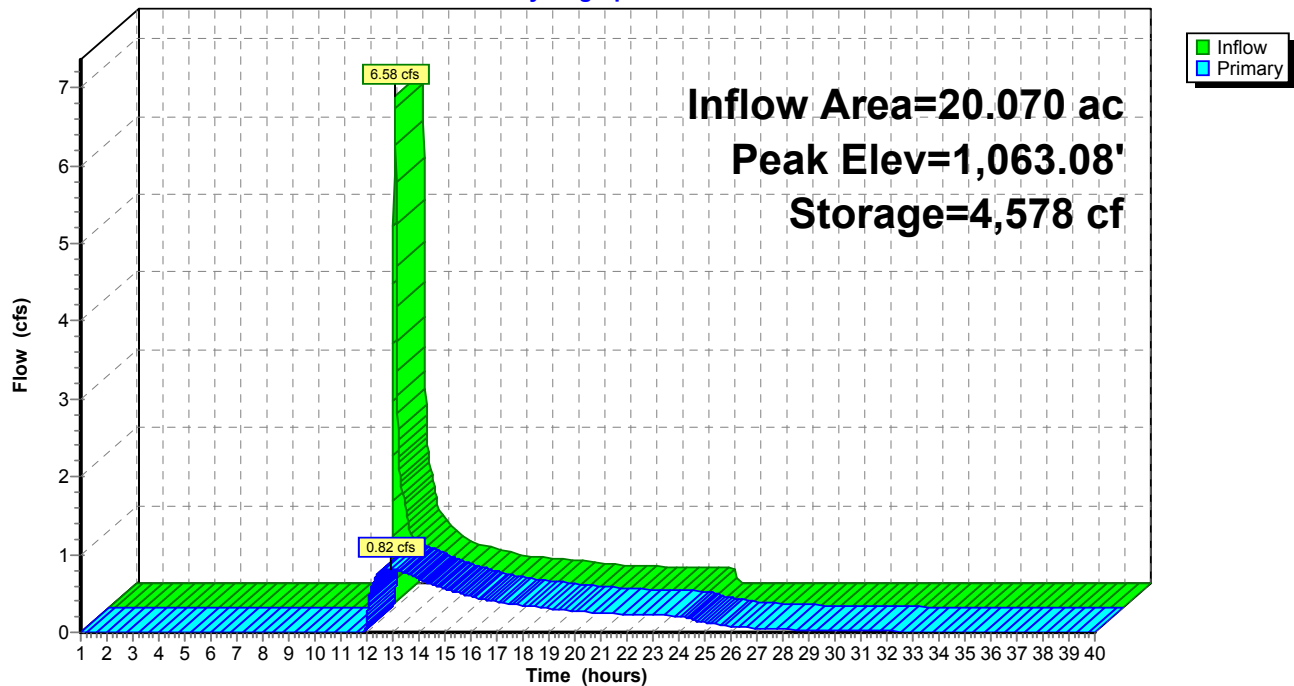
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,063.00	53,600	0	0
1,063.50	65,000	29,650	29,650
1,064.00	76,500	35,375	65,025
1,065.00	88,000	82,250	147,275

Device	Routing	Invert	Outlet Devices
#1	Primary	1,063.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.82 cfs @ 12.89 hrs HW=1,063.08' TW=1,059.82' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 0.82 cfs @ 0.7 fps)

Pond C4P: GOLF COURSE POND

Hydrograph



Pond C6P: GOLF COURSE POND

Inflow Area = 14.100 ac, Inflow Depth = 0.39" for 1-yr event
 Inflow = 8.50 cfs @ 11.98 hrs, Volume= 0.456 af
 Outflow = 0.10 cfs @ 24.07 hrs, Volume= 0.056 af, Atten= 99%, Lag= 725.1 min
 Primary = 0.10 cfs @ 24.07 hrs, Volume= 0.056 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,067.72' @ 24.07 hrs Surf.Area= 84,574 sf Storage= 19,107 cf
 Plug-Flow detention time= 902.1 min calculated for 0.056 af (12% of inflow)
 Center-of-Mass det. time= 713.1 min (1,618.0 - 905.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,067.50'	185,886 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,067.50	78,544	0	0
1,068.00	92,000	42,636	42,636
1,069.50	99,000	143,250	185,886

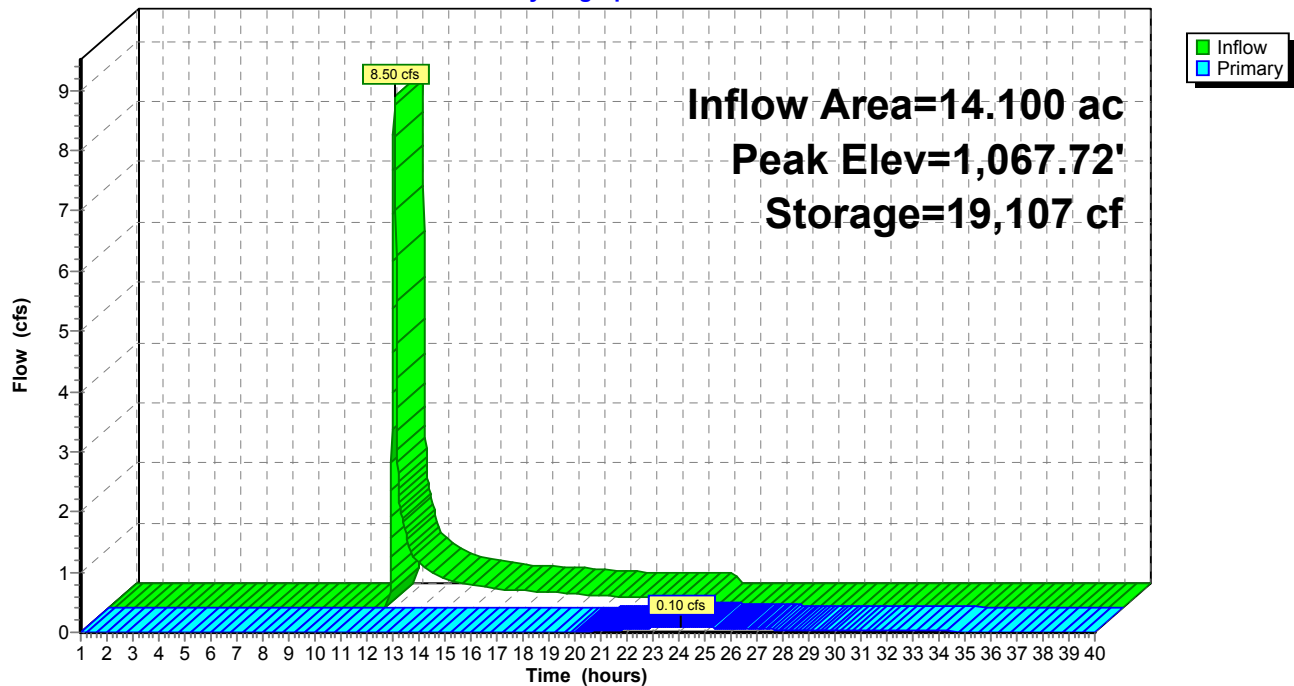
Device	Routing	Invert	Outlet Devices
#1	Primary	1,067.70'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=0.10 cfs @ 24.07 hrs HW=1,067.72' TW=1,059.90' (Dynamic Tailwater)

↑1=**Broad-Crested Rectangular Weir** (Weir Controls 0.10 cfs @ 0.4 fps)

Pond C6P: GOLF COURSE POND

Hydrograph



Pond C7P: (new node)

Inflow Area = 14.790 ac, Inflow Depth = 0.57" for 1-yr event
 Inflow = 15.14 cfs @ 11.96 hrs, Volume= 0.707 af
 Outflow = 0.05 cfs @ 24.08 hrs, Volume= 0.087 af, Atten= 100%, Lag= 727.7 min
 Primary = 0.05 cfs @ 24.08 hrs, Volume= 0.087 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.14' @ 24.08 hrs Surf.Area= 4.107 ac Storage= 0.676 af
 Plug-Flow detention time= 935.0 min calculated for 0.087 af (12% of inflow)
 Center-of-Mass det. time= 767.7 min (1,645.6 - 877.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	9.500 af	Custom Stage Data (Prismatic) Listed below

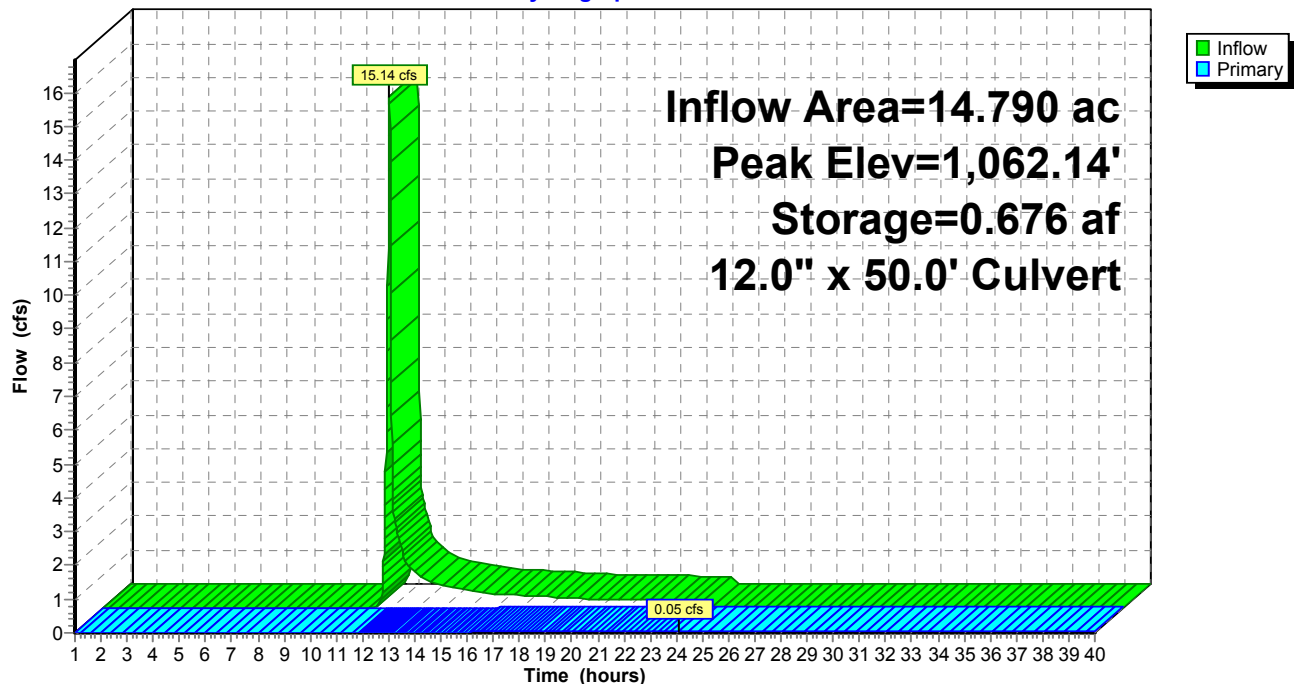
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,062.00	4.000	0.000	0.000
1,064.00	5.500	9.500	9.500

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	12.0" x 50.0' long Culvert Ke= 0.500 Outlet Invert= 1,061.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.05 cfs @ 24.08 hrs HW=1,062.14' TW=1,059.90' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.05 cfs @ 1.0 fps)

Pond C7P: (new node)

Hydrograph



Pond North Twin Lake: NORTH TWIN LAKE

Inflow Area = 570.115 ac, Inflow Depth > 0.16" for 1-yr event
 Inflow = 41.93 cfs @ 12.02 hrs, Volume= 7.682 af
 Outflow = 3.34 cfs @ 19.48 hrs, Volume= 7.682 af, Atten= 92%, Lag= 447.4 min
 Primary = 3.34 cfs @ 19.48 hrs, Volume= 7.682 af

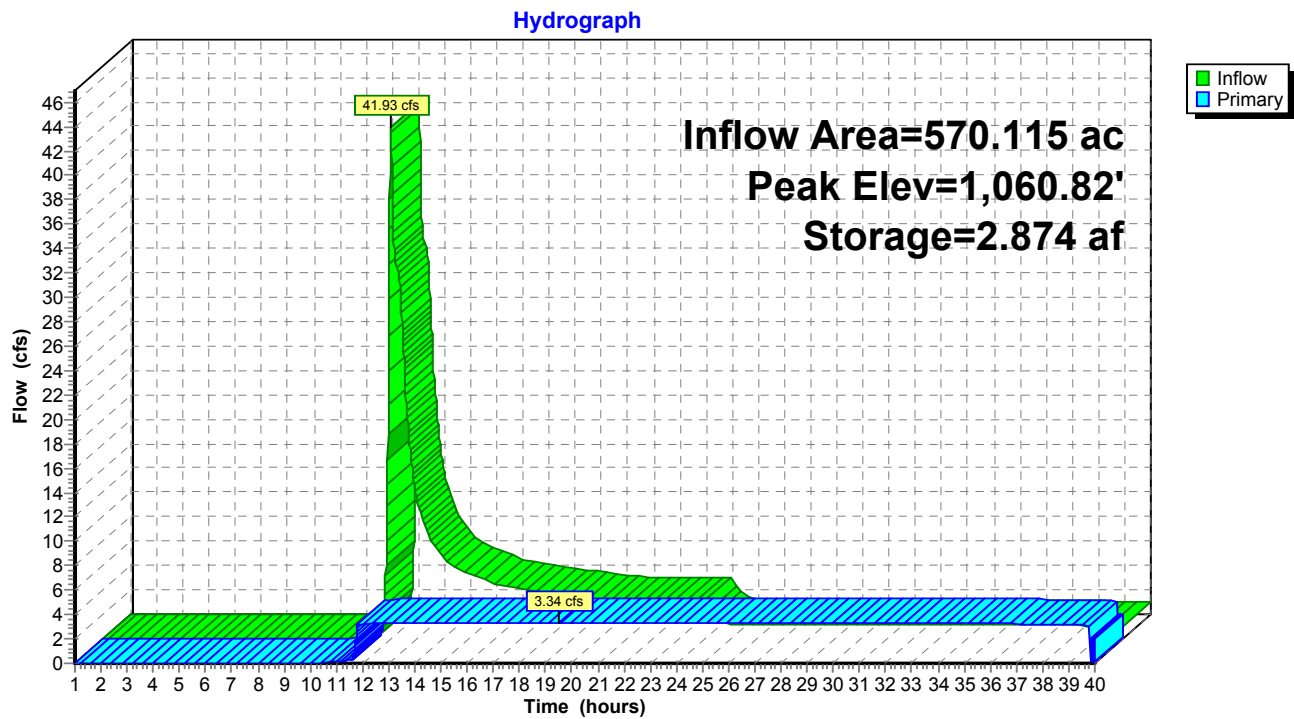
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.82' @ 19.48 hrs Surf.Area= 142.452 ac Storage= 2.874 af
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 418.6 min (1,541.6 - 1,123.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	172.740 af	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	142.400	0.000	0.000
1,062.00	145.500	172.740	172.740

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	30.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.60' S= 0.0040 '/' Cc= 0.900 n= 0.024
#2	Primary	1,062.80'	100.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.34 cfs @ 19.48 hrs HW=1,060.82' TW=1,059.88' (Dynamic Tailwater)
 1=Culvert (Barrel Controls 3.34 cfs @ 2.6 fps)
 2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond North Twin Lake: NORTH TWIN LAKE

Pond PIKE: PIKE LAKE

Inflow Area = 400.735 ac, Inflow Depth > 0.27" for 1-yr event
 Inflow = 72.79 cfs @ 12.06 hrs, Volume= 8.865 af
 Outflow = 1.10 cfs @ 32.32 hrs, Volume= 2.052 af, Atten= 98%, Lag= 1,215.5 min
 Primary = 1.10 cfs @ 32.32 hrs, Volume= 2.052 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.84' @ 24.48 hrs Surf.Area= 169.416 ac Storage= 7.406 af
 Plug-Flow detention time= 967.2 min calculated for 2.052 af (23% of inflow)
 Center-of-Mass det. time= 673.8 min (1,693.3 - 1,019.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	205.080 af	Custom Stage Data (Prismatic) Listed below

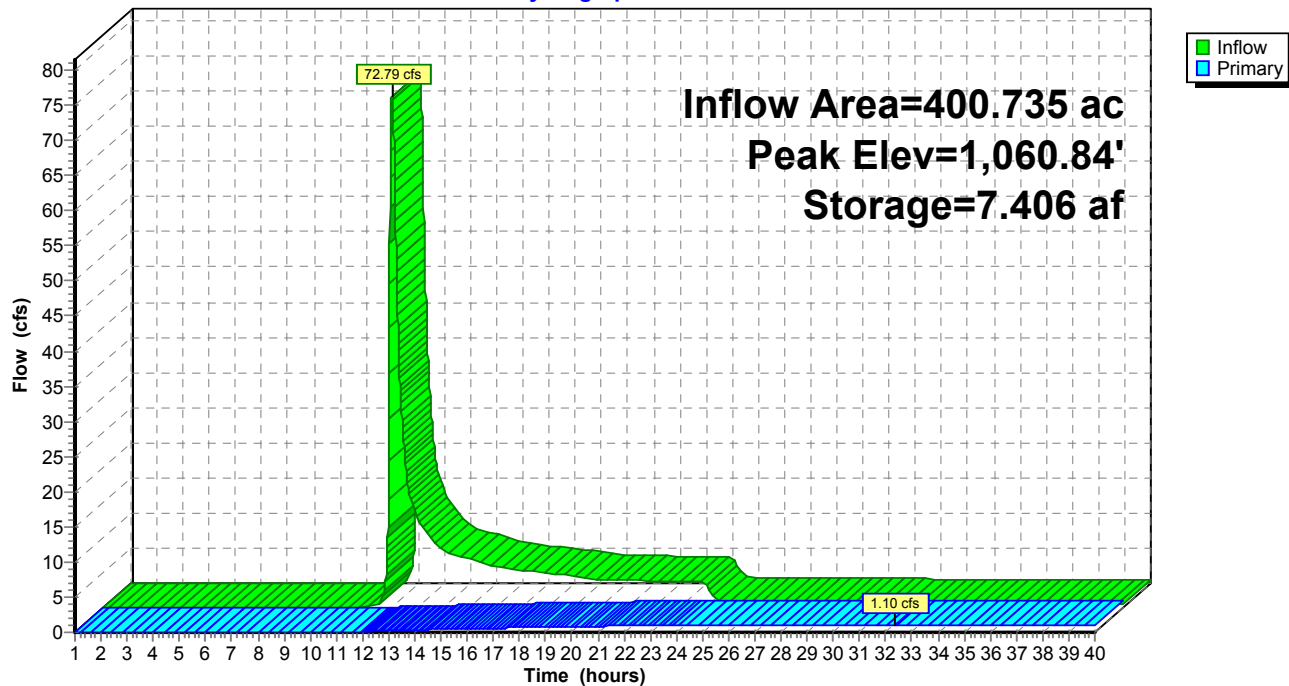
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	169.300	0.000	0.000
1,062.00	172.500	205.080	205.080

Device	Routing	Invert	Outlet Devices
#1	Primary	1,060.80'	50.0' long x 1.2' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.66 2.69 2.71 2.78 2.89 2.99 3.09 3.20 3.21 3.19 3.30 3.32

Primary OutFlow Max=1.10 cfs @ 32.32 hrs HW=1,060.84' TW=1,060.81' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 1.10 cfs @ 0.5 fps)

Pond PIKE: PIKE LAKE

Hydrograph



Pond South Twin Lake: SOUTH TWIN LAKE

Inflow Area = 693.705 ac, Inflow Depth > 0.22" for 1-yr event
 Inflow = 20.68 cfs @ 12.16 hrs, Volume= 12.793 af
 Outflow = 0.08 cfs @ 40.00 hrs, Volume= 0.093 af, Atten= 100%, Lag= 1,670.6 min
 Primary = 0.08 cfs @ 40.00 hrs, Volume= 0.093 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,059.96' @ 40.00 hrs Surf.Area= 76.547 ac Storage= 12.699 af
 Plug-Flow detention time= 1,158.5 min calculated for 0.093 af (1% of inflow)
 Center-of-Mass det. time= 553.2 min (1,858.1 - 1,305.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,059.80'	321.440 af	Custom Stage Data (Prismatic) Listed below

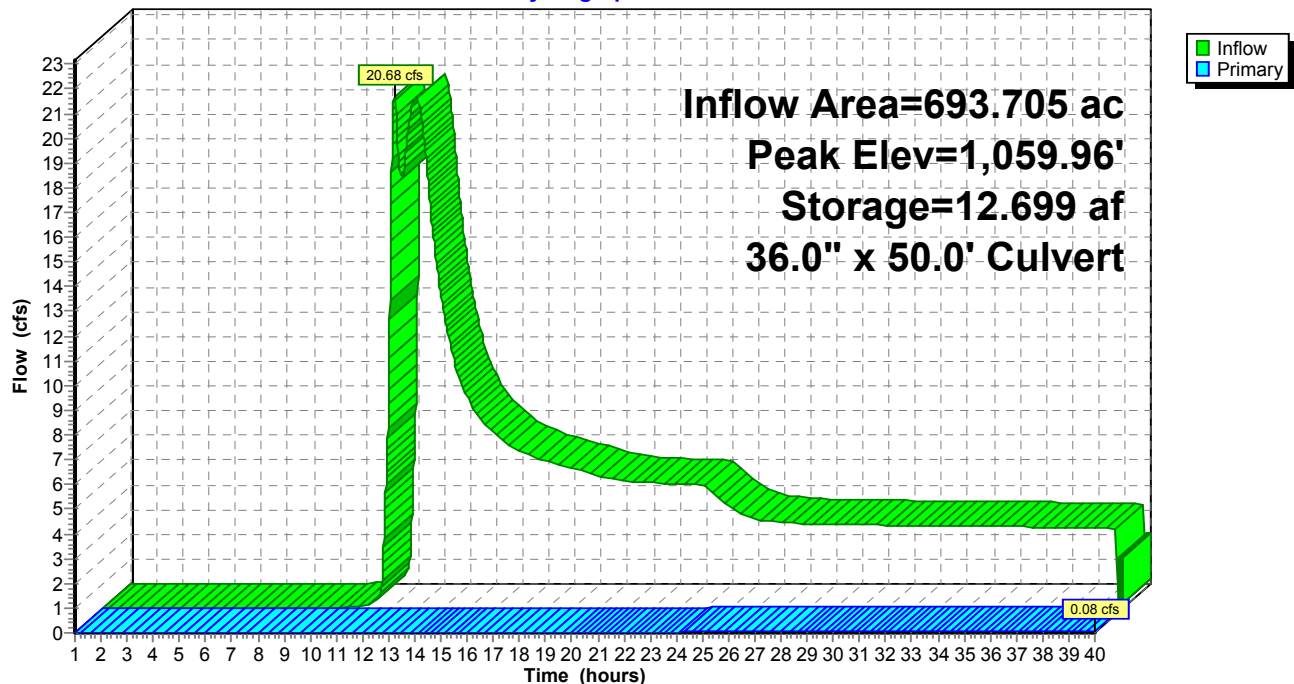
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,059.80	76.220	0.000	0.000
1,063.80	84.500	321.440	321.440

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	36.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.50' S= 0.0060 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.08 cfs @ 40.00 hrs HW=1,059.96' TW=0.00' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.08 cfs @ 0.9 fps)

Pond South Twin Lake: SOUTH TWIN LAKE

Hydrograph



Subcatchment A1: A1

Runoff = 10.77 cfs @ 12.43 hrs, Volume= 1.629 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

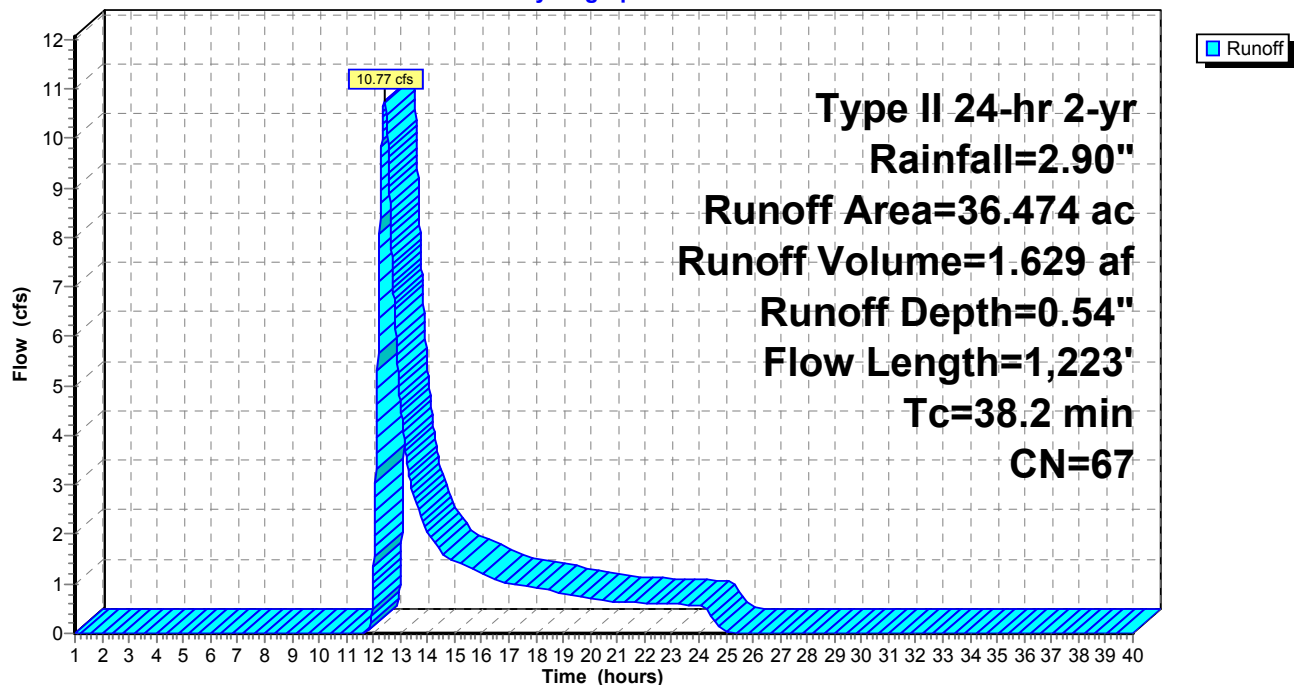
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
36.474	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	1,223	0.0200	0.5		Lag/CN Method,

Subcatchment A1: A1

Hydrograph



Subcatchment A10: A10

Runoff = 9.19 cfs @ 12.00 hrs, Volume= 0.478 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

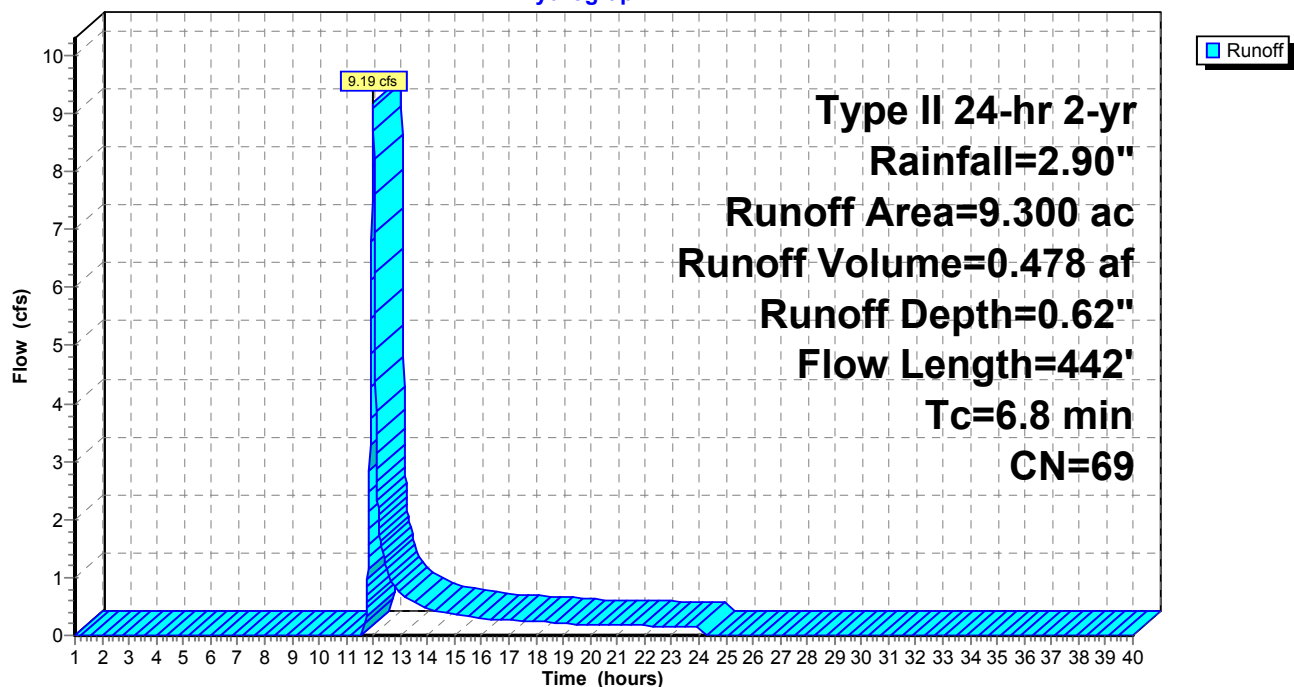
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.300	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	442	0.1100	1.1		Lag/CN Method,

Subcatchment A10: A10

Hydrograph



Subcatchment A11: A11

Runoff = 14.33 cfs @ 12.06 hrs, Volume= 1.005 af, Depth= 0.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

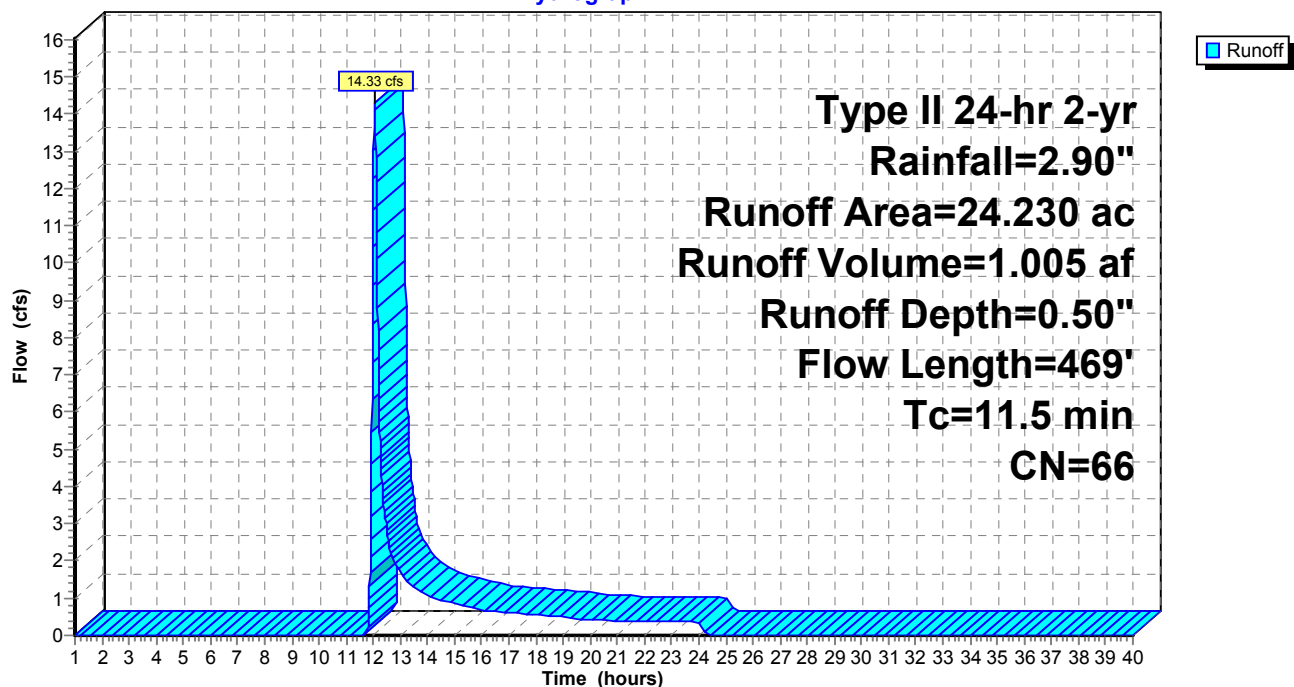
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
24.230	66	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	469	0.0500	0.7		Lag/CN Method,

Subcatchment A11: A11

Hydrograph



Subcatchment A12: A12

Runoff = 6.10 cfs @ 12.14 hrs, Volume= 0.679 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

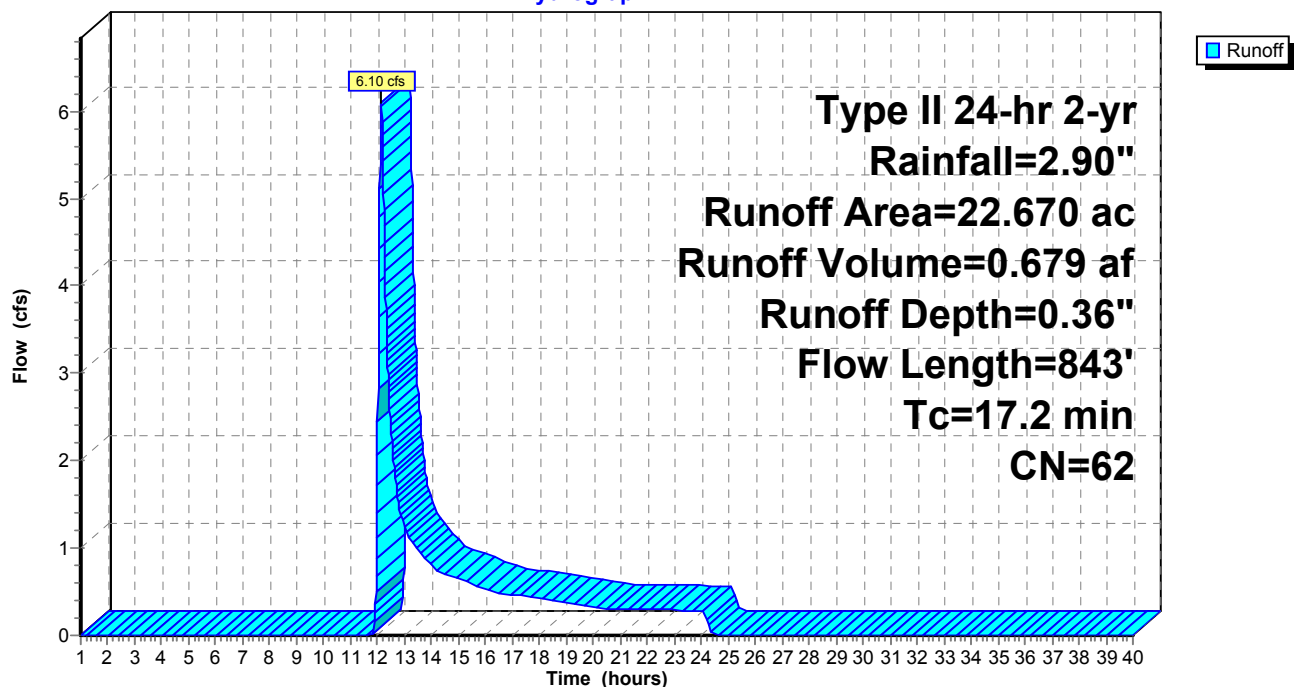
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
22.670	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	843	0.0700	0.8		Lag/CN Method,

Subcatchment A12: A12

Hydrograph



Subcatchment A13: A13

Runoff = 4.31 cfs @ 12.24 hrs, Volume= 0.688 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

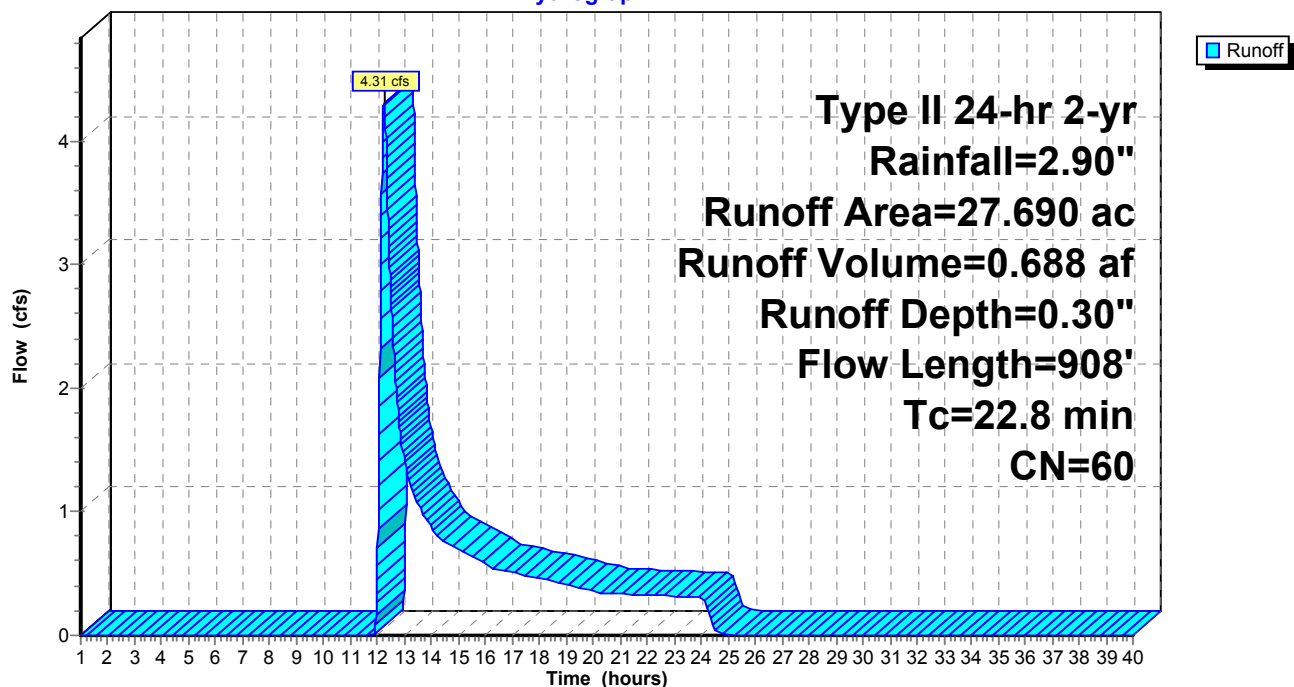
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
27.690	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	908	0.0500	0.7		Lag/CN Method,

Subcatchment A13: A13

Hydrograph



Subcatchment A2: A2

Runoff = 24.13 cfs @ 12.10 hrs, Volume= 1.898 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

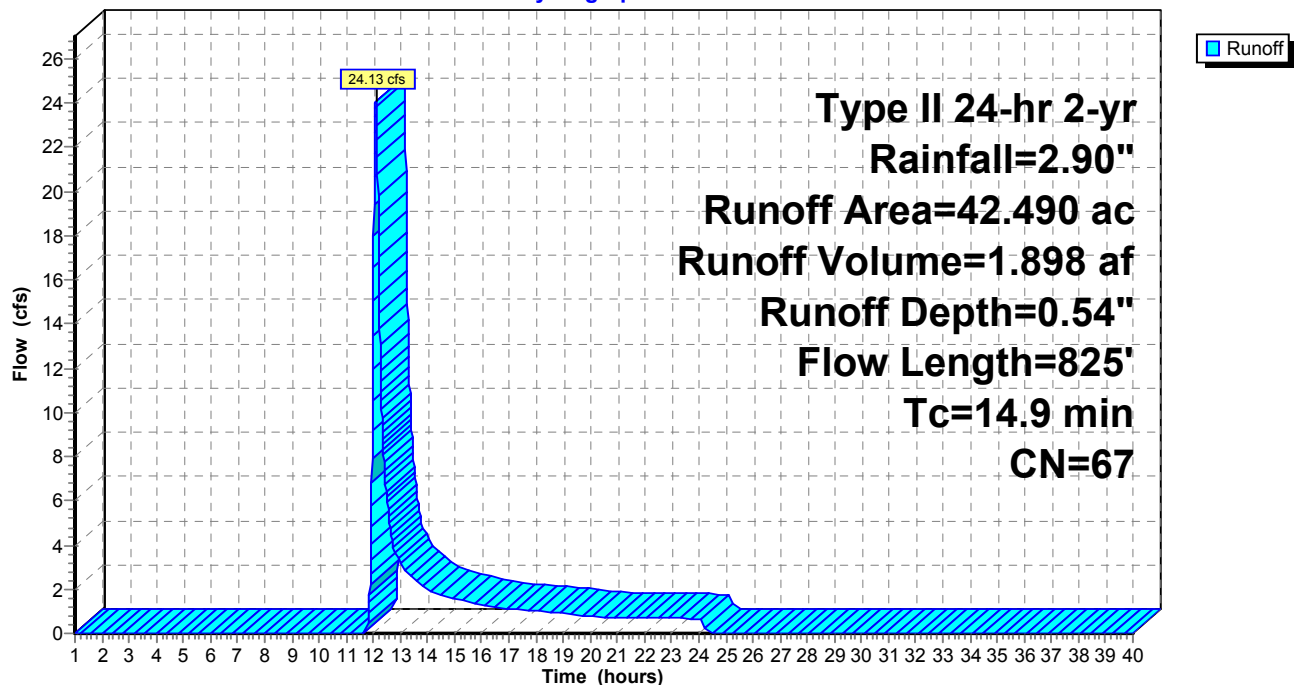
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
42.490	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	825	0.0700	0.9		Lag/CN Method,

Subcatchment A2: A2

Hydrograph



Subcatchment A3: A3

Runoff = 20.87 cfs @ 12.15 hrs, Volume= 1.723 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

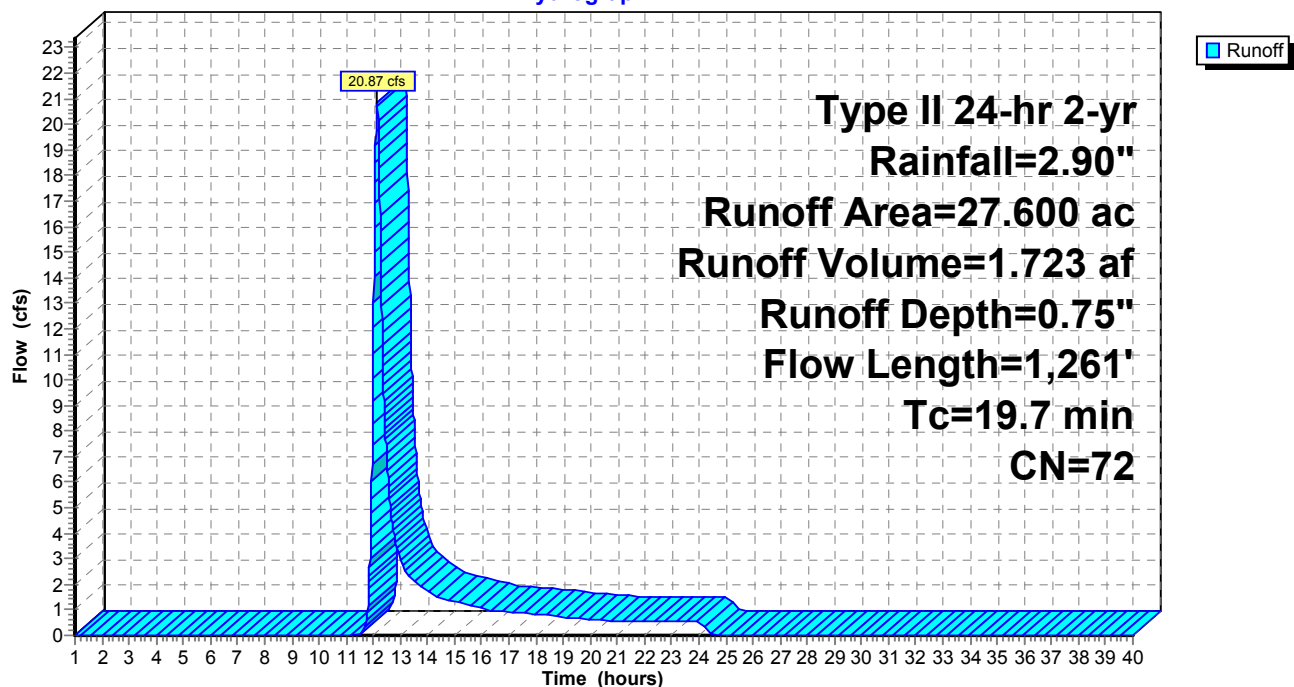
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
27.600	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	1,261	0.0600	1.1		Lag/CN Method,

Subcatchment A3: A3

Hydrograph



Subcatchment A4: A4

Runoff = 14.45 cfs @ 12.34 hrs, Volume= 1.868 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

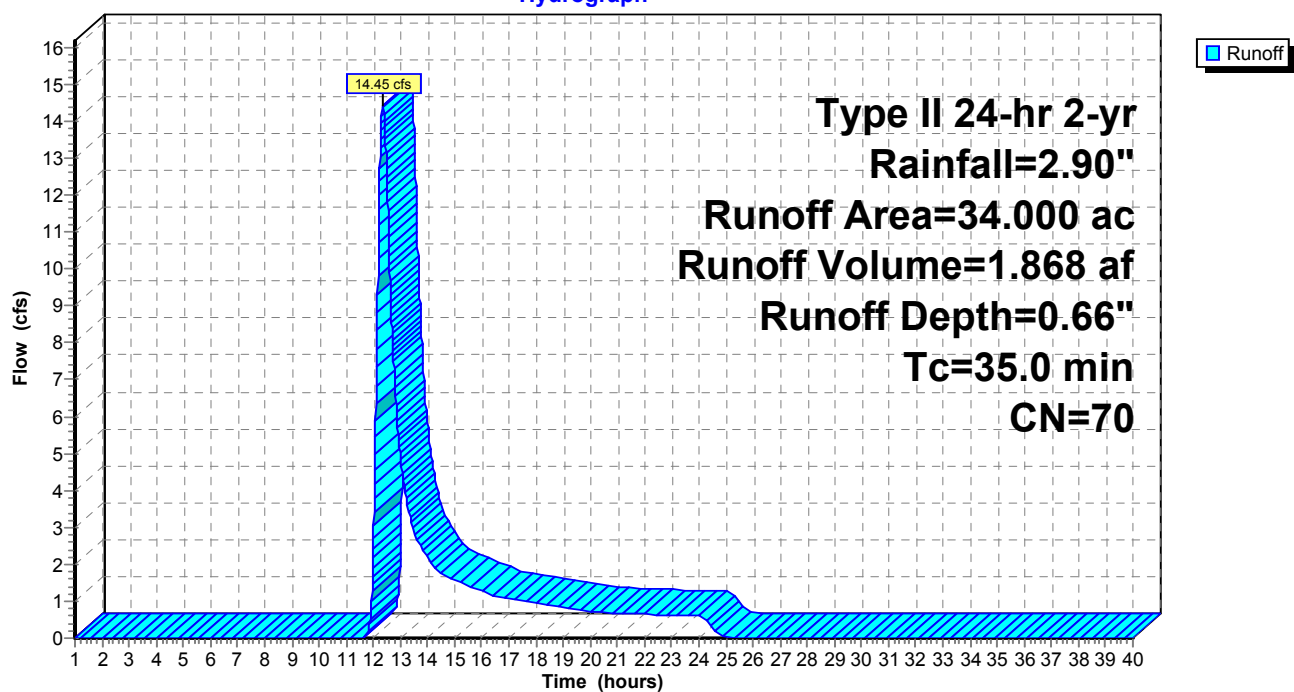
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.000	100	WATER
19.000	60	Woods, Fair, HSG B
10.000	74	Row crops, C + CR, Good, HSG B
34.000	70	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.0					Direct Entry,

Subcatchment A4: A4

Hydrograph



Subcatchment A5: A5

Runoff = 22.14 cfs @ 12.06 hrs, Volume= 1.371 af, Depth= 1.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

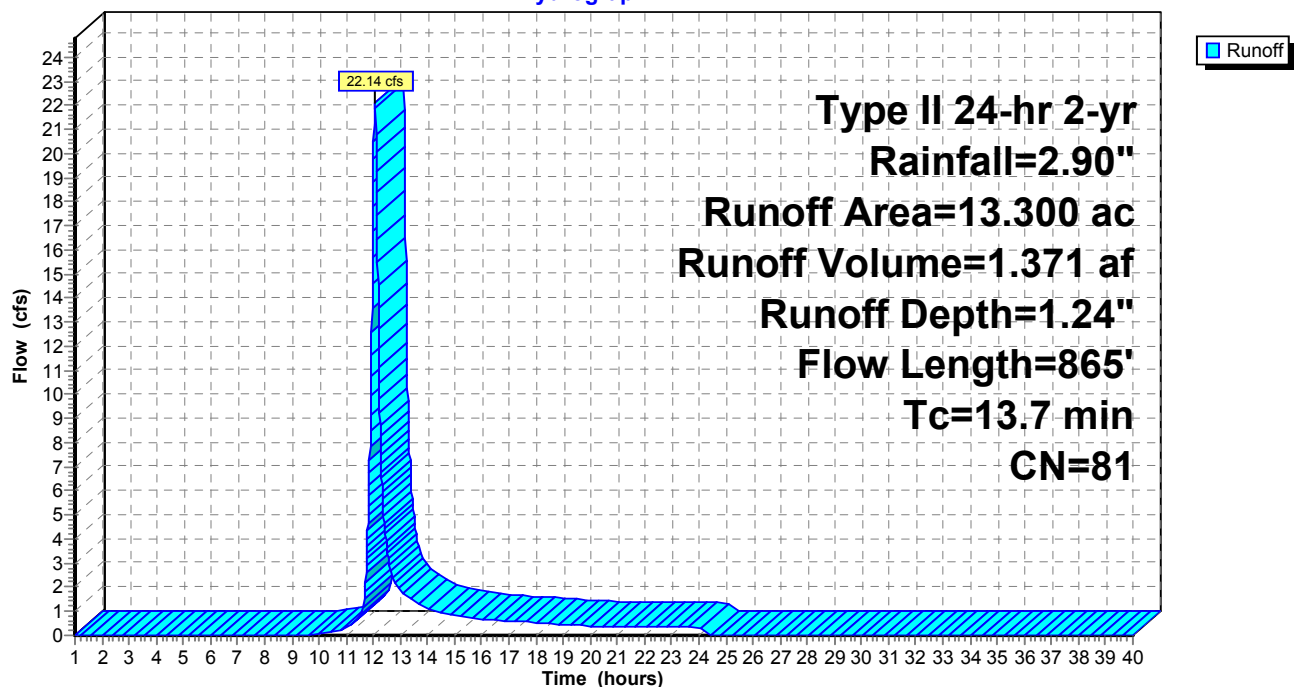
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
13.300	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	865	0.0400	1.1		Lag/CN Method,

Subcatchment A5: A5

Hydrograph



Subcatchment A6: A6

Runoff = 8.92 cfs @ 12.17 hrs, Volume= 0.833 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

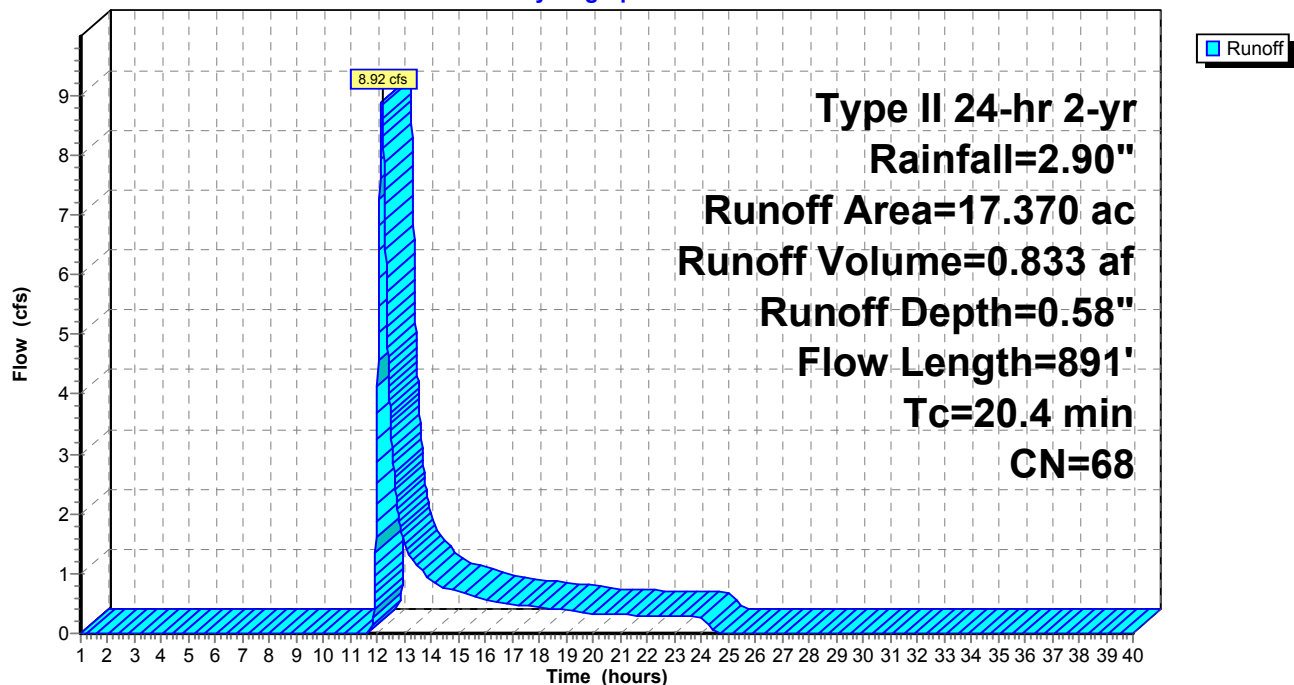
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
17.370	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	891	0.0400	0.7		Lag/CN Method,

Subcatchment A6: A6

Hydrograph



Subcatchment A7: A7

Runoff = 1.04 cfs @ 12.35 hrs, Volume= 0.293 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

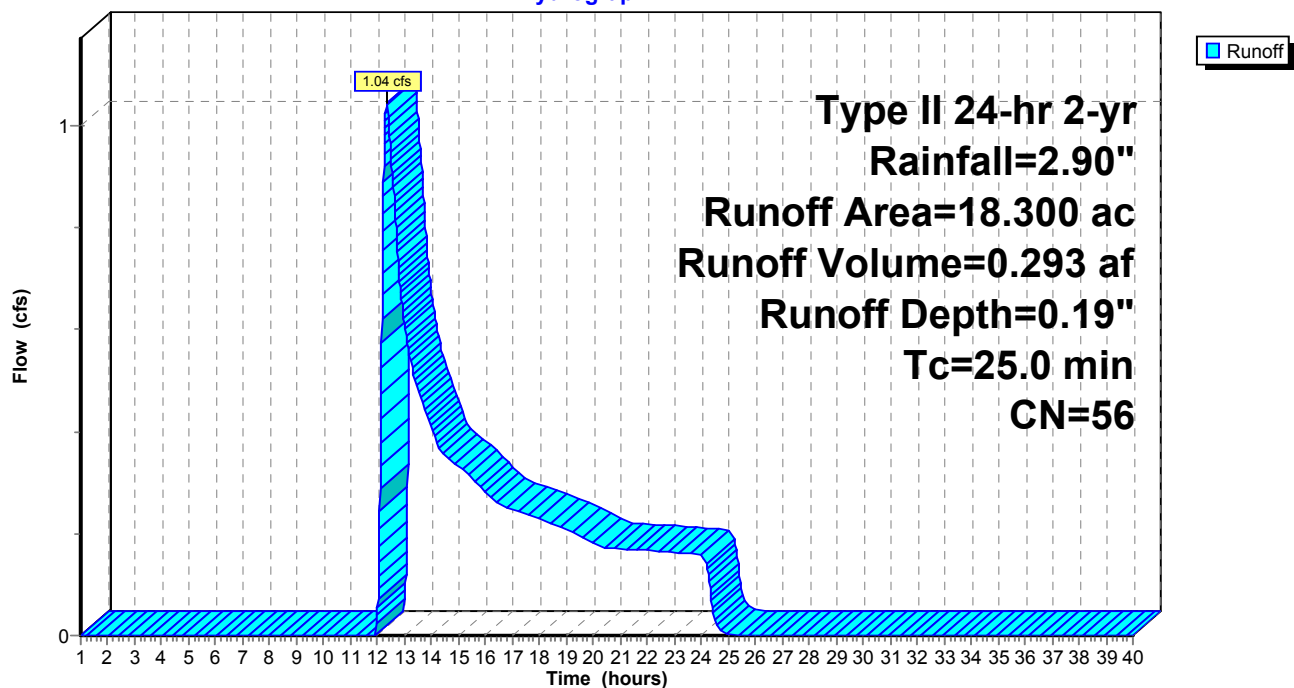
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
1.000	100	WATER
3.000	70	FARM
7.300	64	Row crops, C + CR, Good, HSG A
7.000	36	Woods, Fair, HSG A
18.300	56	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.0					Direct Entry,

Subcatchment A7: A7

Hydrograph



Subcatchment A9: A9

Runoff = 2.75 cfs @ 12.07 hrs, Volume= 0.380 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

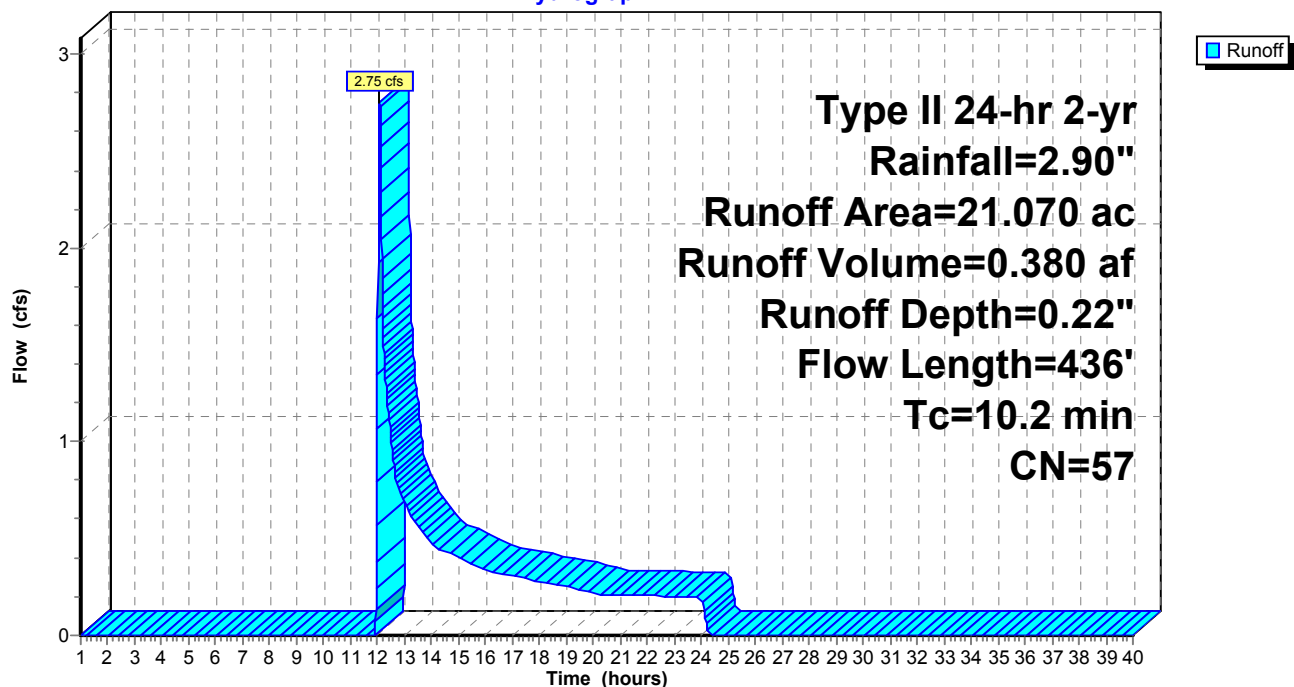
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
21.070	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	436	0.0900	0.7		Lag/CN Method,

Subcatchment A9: A9

Hydrograph



Subcatchment B1: B1

Runoff = 19.60 cfs @ 12.29 hrs, Volume= 2.242 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

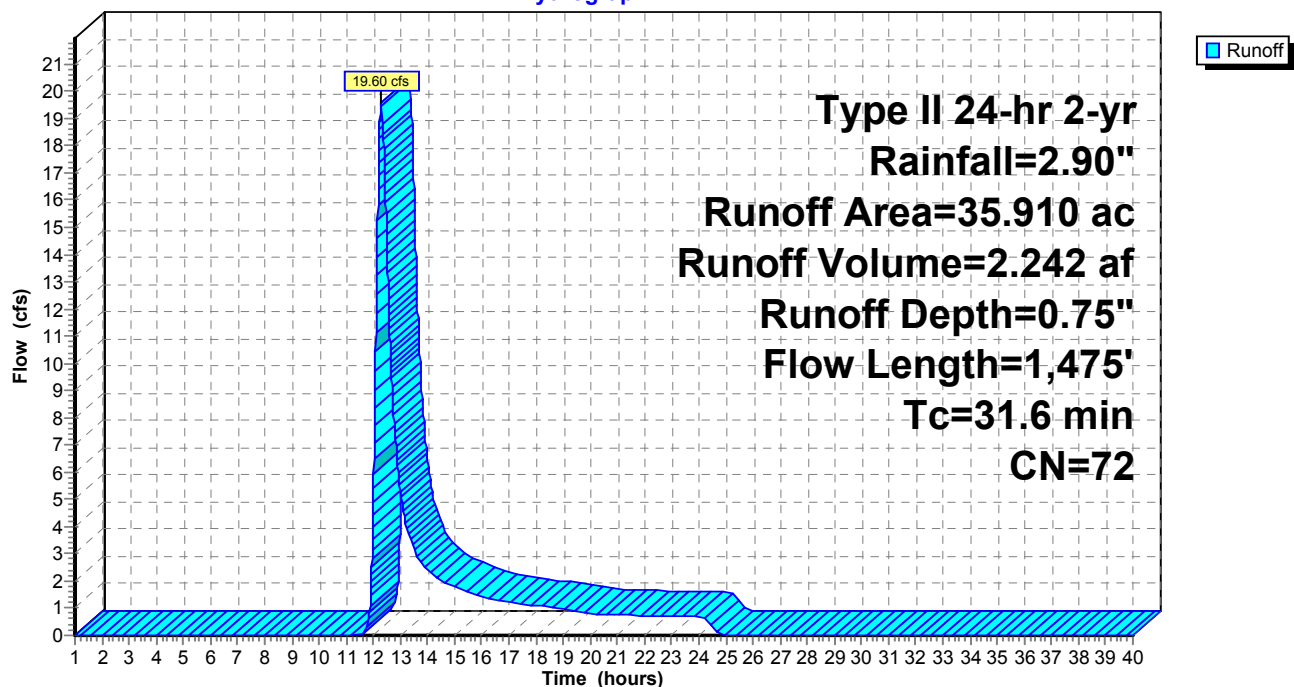
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
35.910	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.6	1,475	0.0300	0.8		Lag/CN Method,

Subcatchment B1: B1

Hydrograph



Subcatchment B10: B10

Runoff = 7.63 cfs @ 11.97 hrs, Volume= 0.359 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

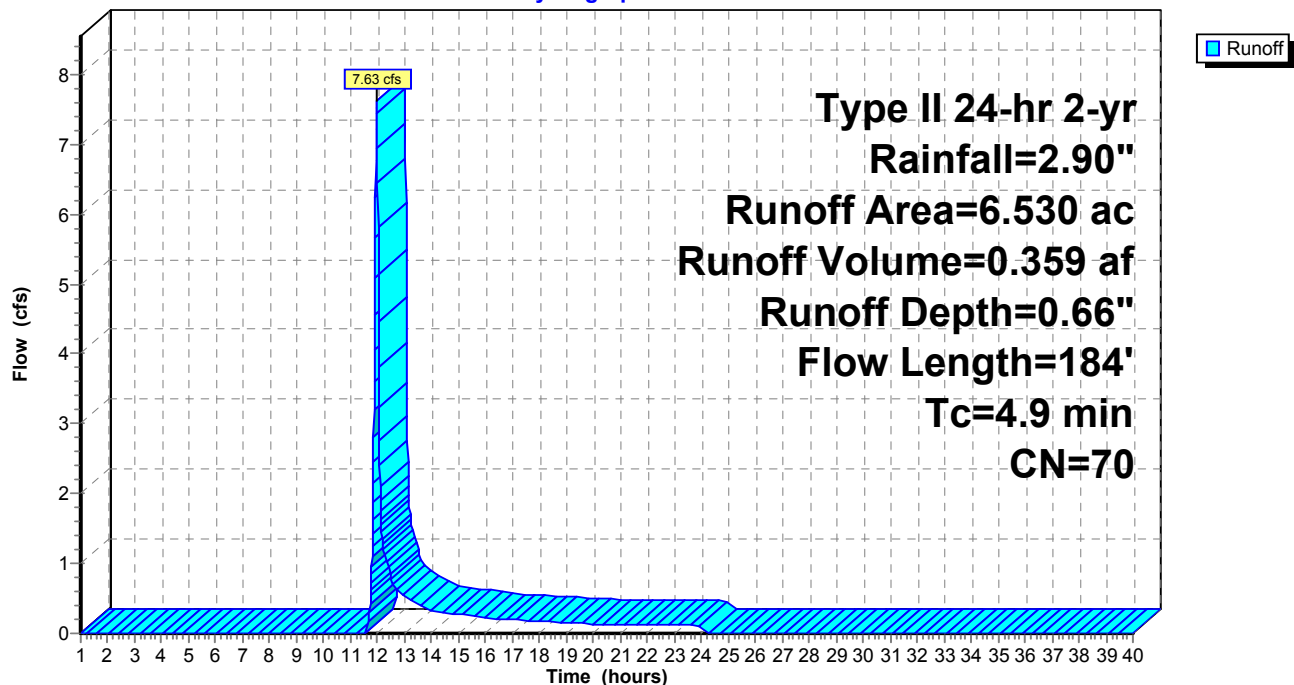
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
6.530	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	184	0.0500	0.6		Lag/CN Method,

Subcatchment B10: B10

Hydrograph



Subcatchment B11: B11

Runoff = 6.23 cfs @ 12.40 hrs, Volume= 0.771 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

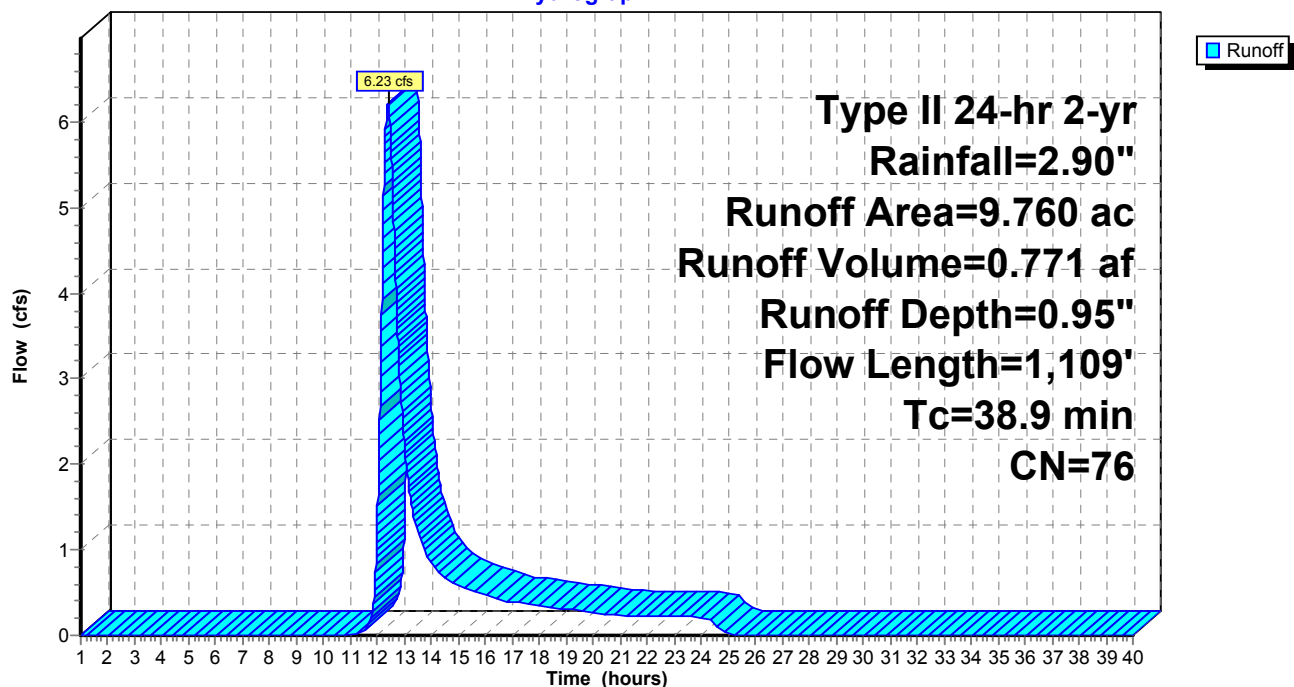
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.760	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.9	1,109	0.0100	0.5		Lag/CN Method,

Subcatchment B11: B11

Hydrograph



Subcatchment B12: B12

Runoff = 7.97 cfs @ 11.99 hrs, Volume= 0.396 af, Depth= 1.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

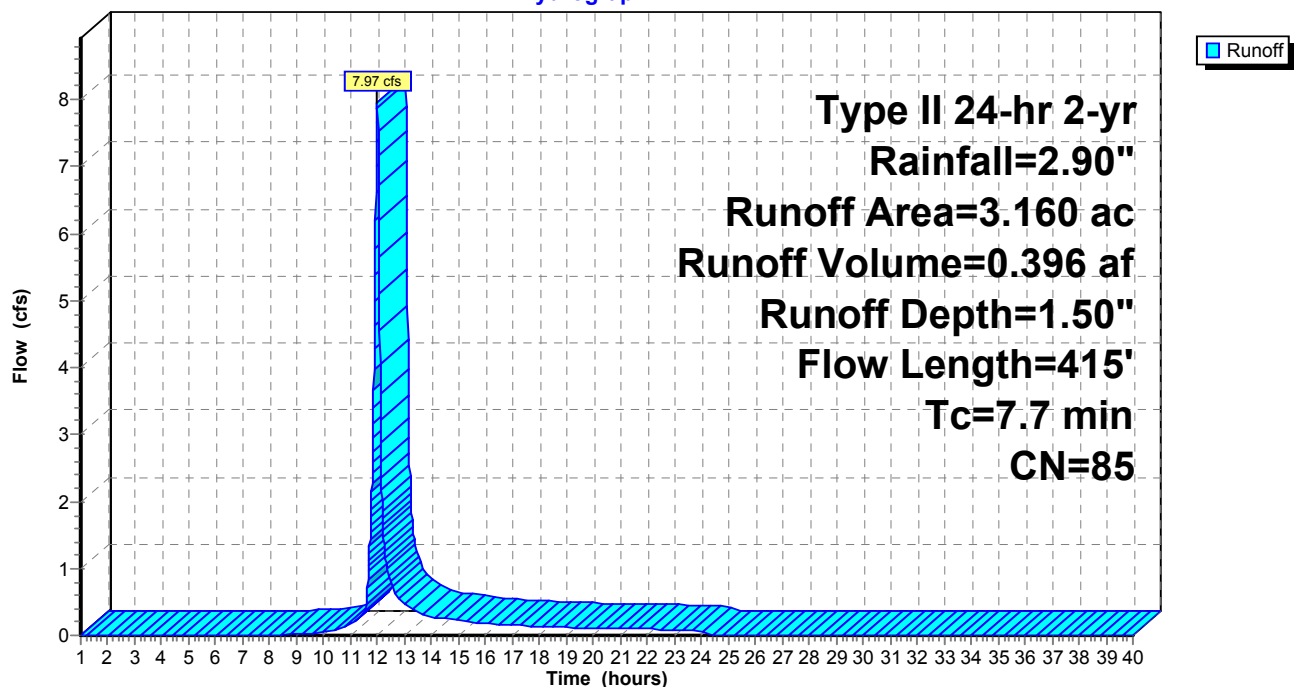
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
3.160	85	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	415	0.0300	0.9		Lag/CN Method,

Subcatchment B12: B12

Hydrograph



Subcatchment B13: B13

Runoff = 7.26 cfs @ 12.01 hrs, Volume= 0.417 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

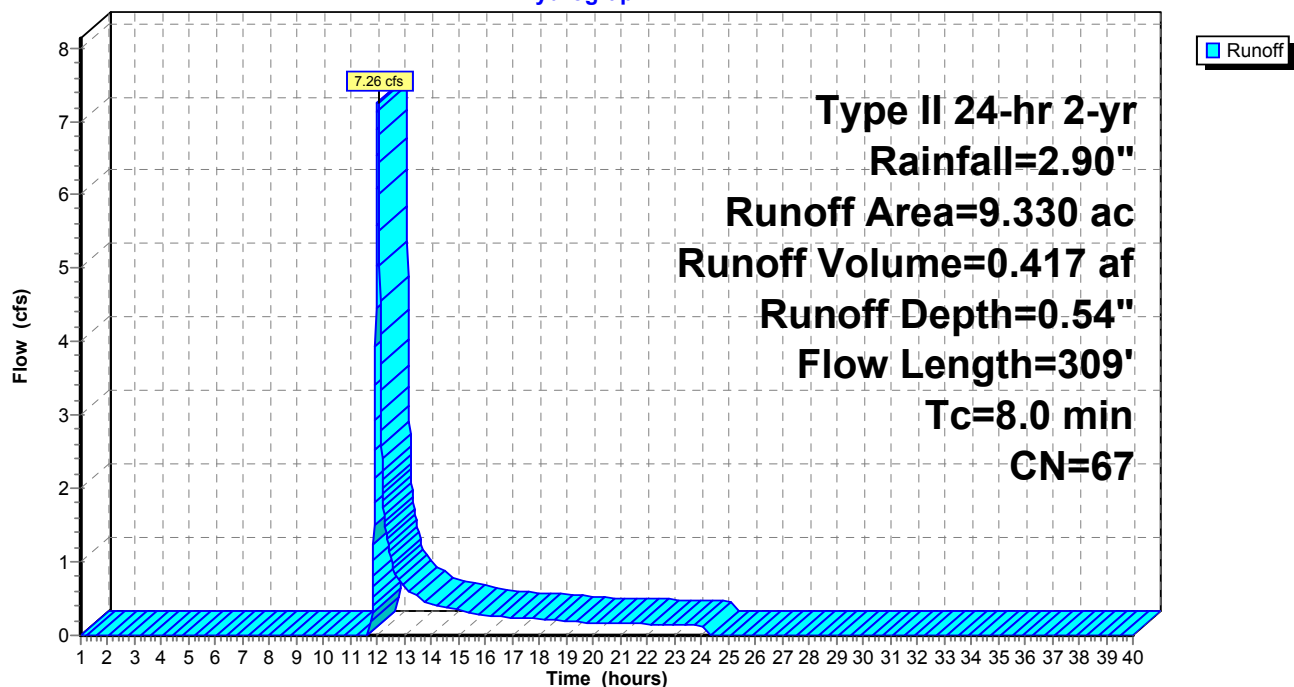
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.330	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	309	0.0500	0.6		Lag/CN Method,

Subcatchment B13: B13

Hydrograph



Subcatchment B2: B2

Runoff = 4.94 cfs @ 12.03 hrs, Volume= 0.352 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

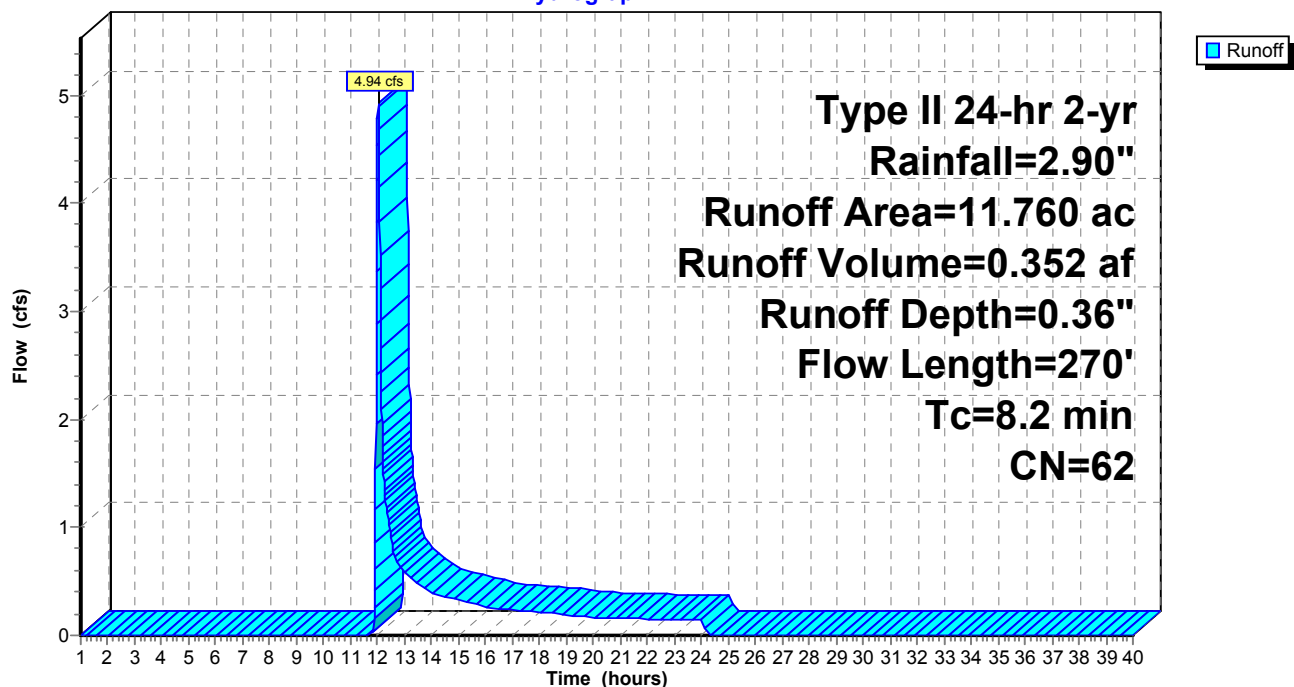
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
11.760	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	270	0.0500	0.5		Lag/CN Method,

Subcatchment B2: B2

Hydrograph



Subcatchment B3: B3

Runoff = 11.00 cfs @ 11.96 hrs, Volume= 0.491 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

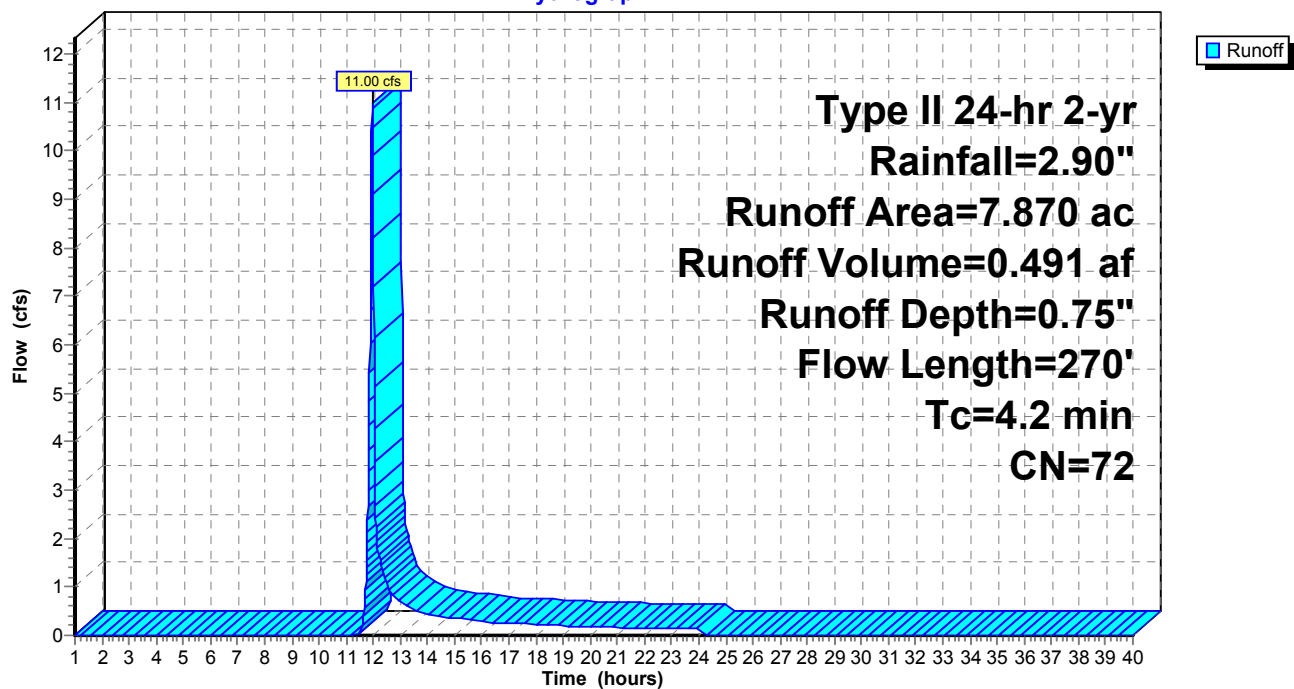
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.870	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	270	0.1100	1.1		Lag/CN Method,

Subcatchment B3: B3

Hydrograph



Subcatchment B4: B4

Runoff = 1.17 cfs @ 12.41 hrs, Volume= 0.212 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

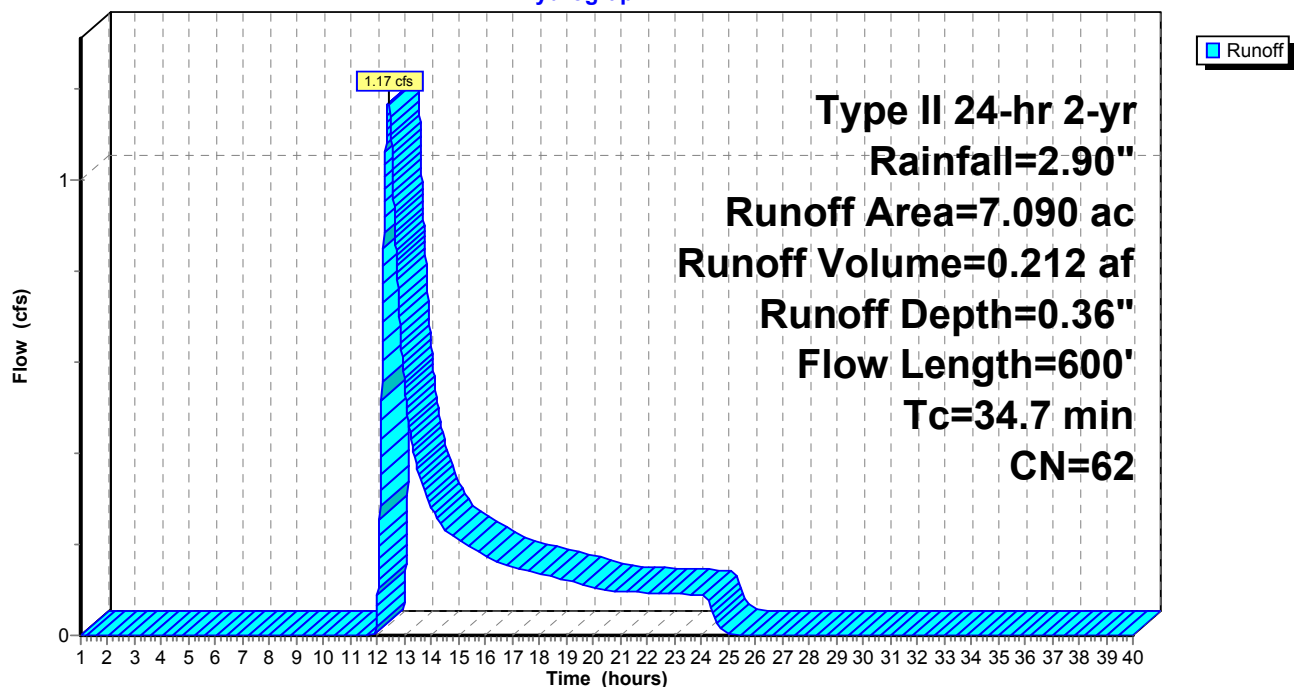
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.090	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.7	600	0.0100	0.3		Lag/CN Method,

Subcatchment B4: B4

Hydrograph



Subcatchment B5: B5

Runoff = 25.36 cfs @ 12.04 hrs, Volume= 1.540 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

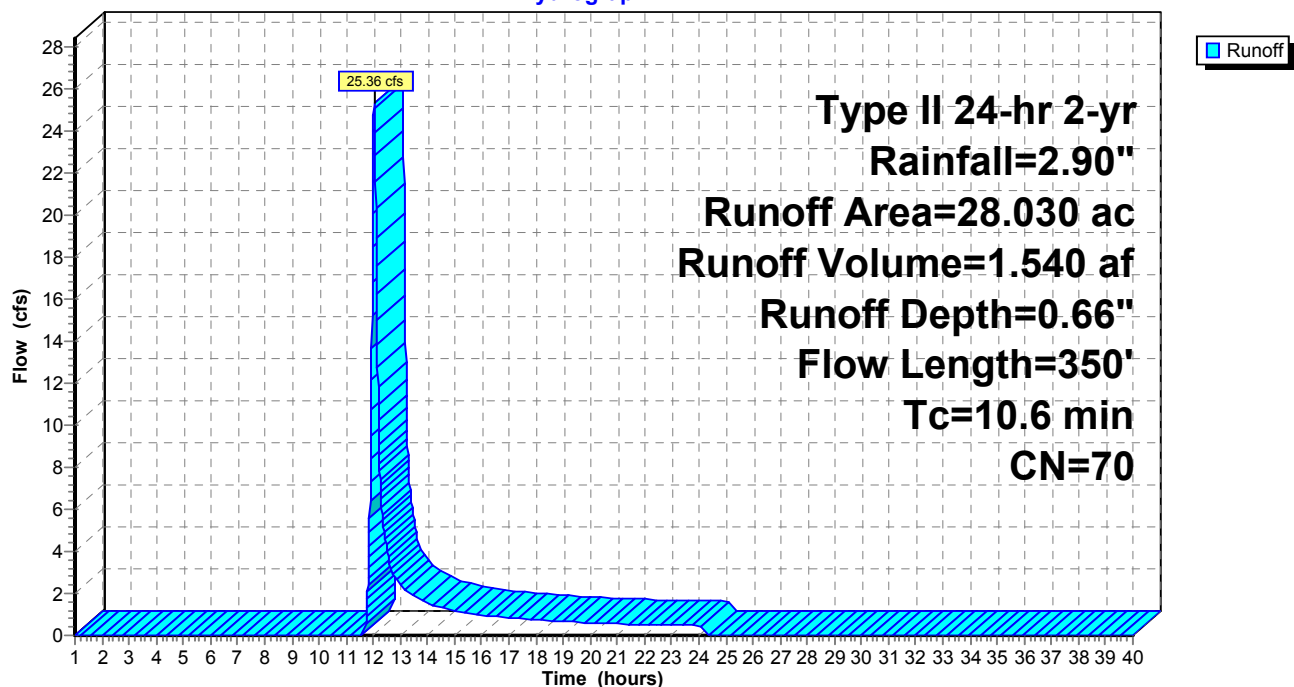
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
28.030	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	350	0.0300	0.6		Lag/CN Method,

Subcatchment B5: B5

Hydrograph



Subcatchment B6: B6

Runoff = 13.11 cfs @ 12.02 hrs, Volume= 0.771 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

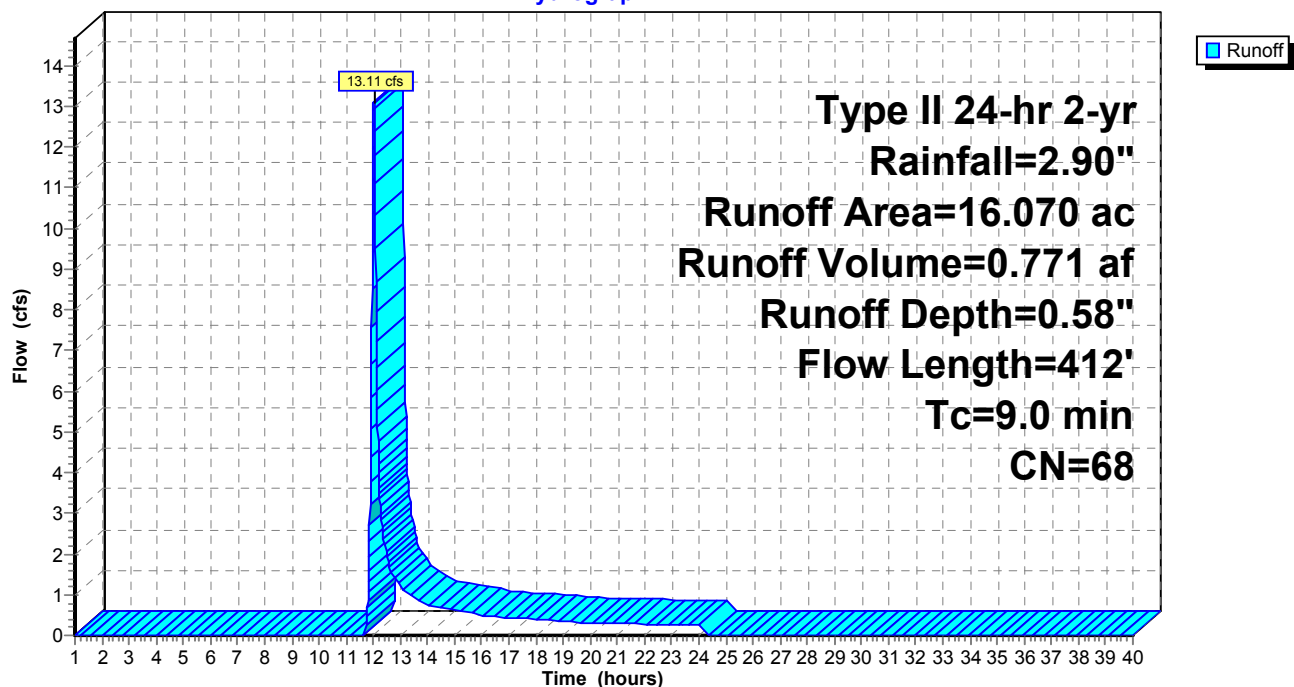
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
16.070	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	412	0.0600	0.8		Lag/CN Method,

Subcatchment B6: B6

Hydrograph



Subcatchment B7: B7

Runoff = 3.32 cfs @ 12.39 hrs, Volume= 0.546 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

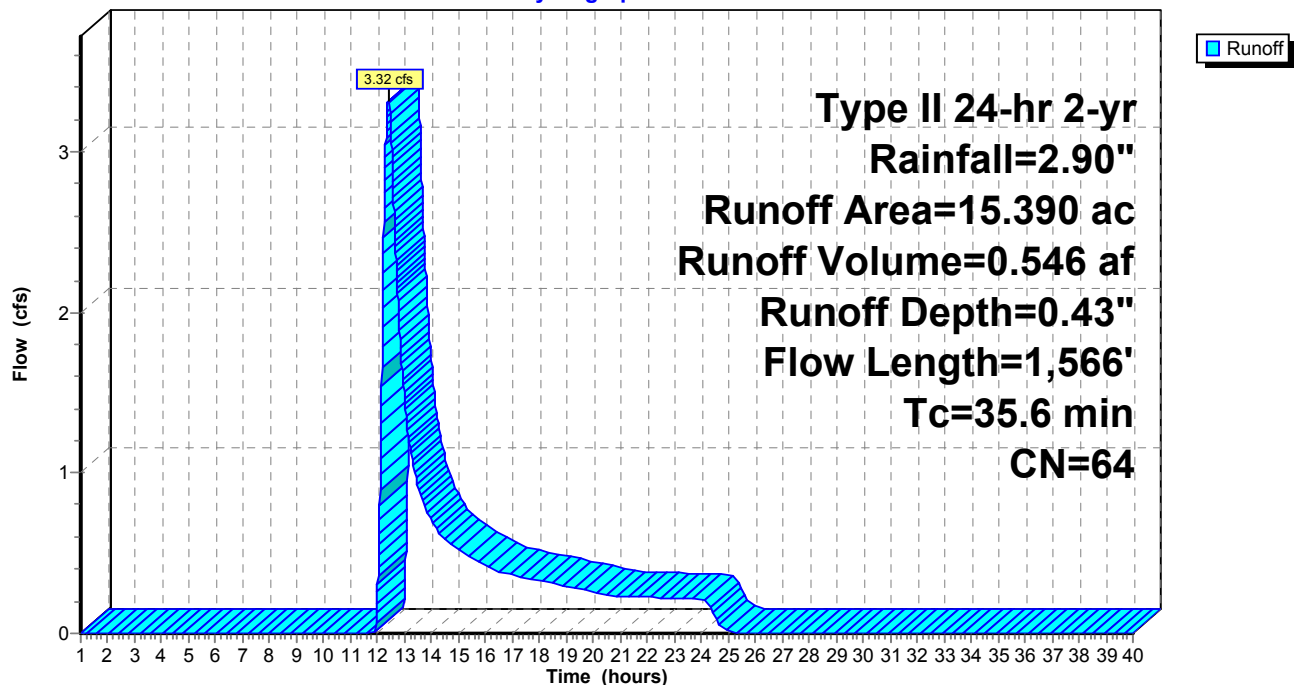
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
15.390	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.6	1,566	0.0400	0.7		Lag/CN Method,

Subcatchment B7: B7

Hydrograph



Subcatchment B8: B8

Runoff = 7.04 cfs @ 12.07 hrs, Volume= 0.471 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

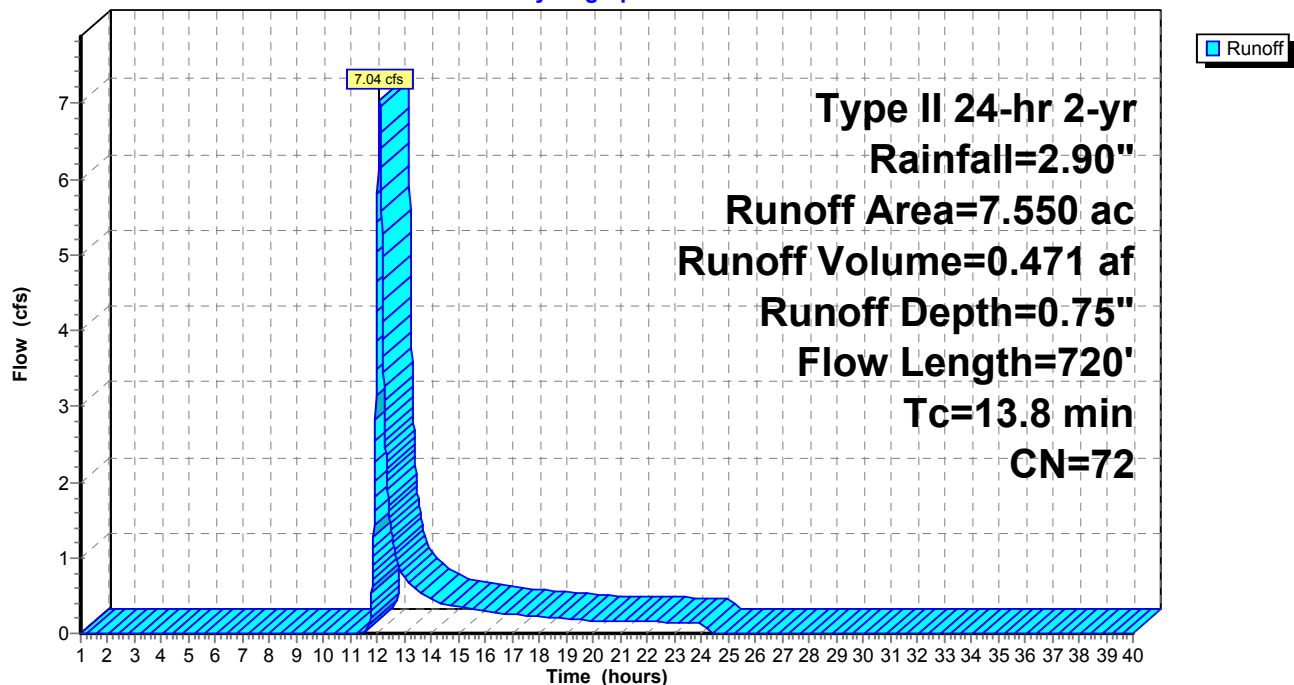
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.550	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	720	0.0500	0.9		Lag/CN Method,

Subcatchment B8: B8

Hydrograph



Subcatchment B9: B9

Runoff = 7.35 cfs @ 12.23 hrs, Volume= 0.826 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

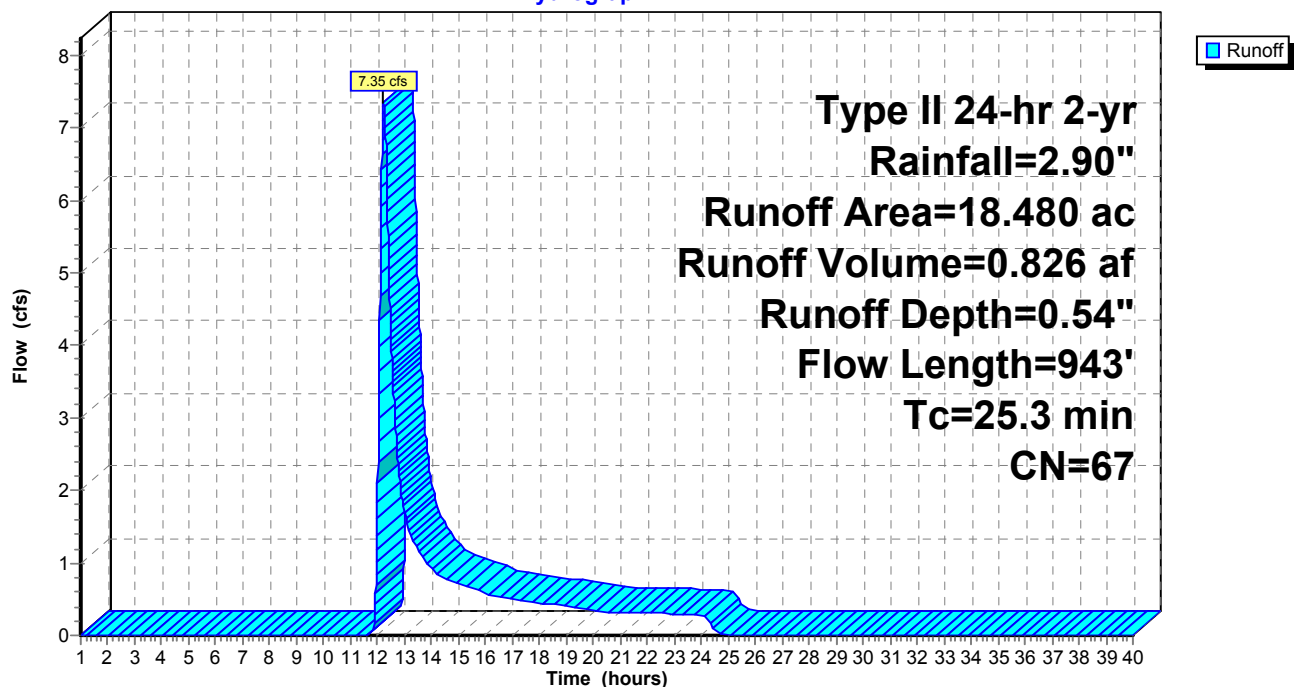
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.480	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	943	0.0300	0.6		Lag/CN Method,

Subcatchment B9: B9

Hydrograph



Subcatchment C1: C1

Runoff = 14.47 cfs @ 12.11 hrs, Volume= 1.078 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

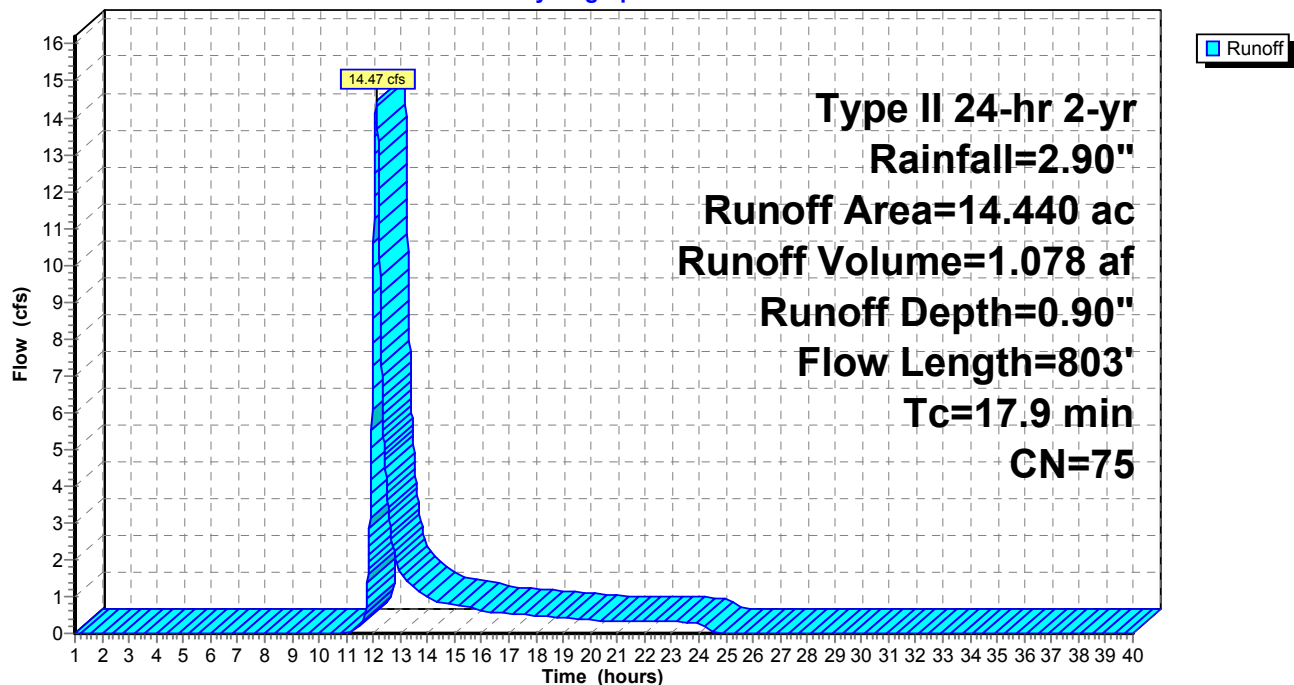
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
14.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.9	803	0.0300	0.7		Lag/CN Method,

Subcatchment C1: C1

Hydrograph



Subcatchment C3: C3

Runoff = 19.10 cfs @ 12.99 hrs, Volume= 4.062 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

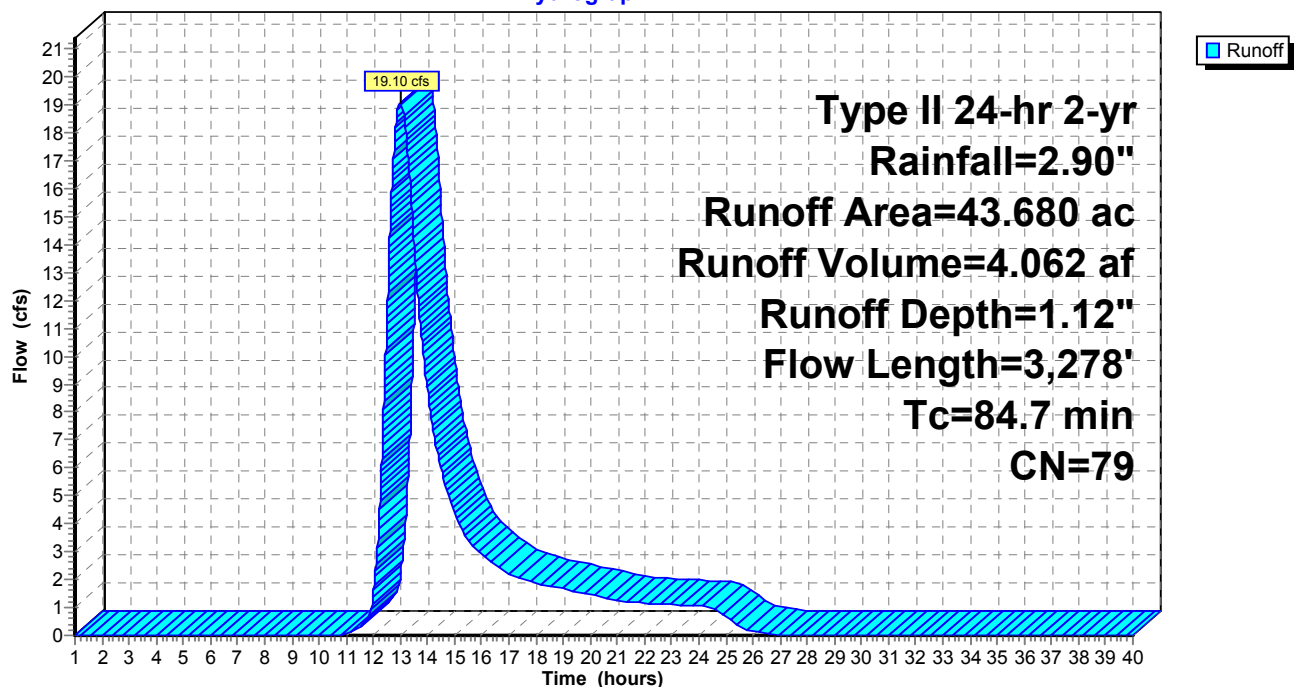
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
43.680	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
84.7	3,278	0.0100	0.6		Lag/CN Method,

Subcatchment C3: C3

Hydrograph



Subcatchment C4: C4

Runoff = 12.55 cfs @ 11.99 hrs, Volume= 0.712 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

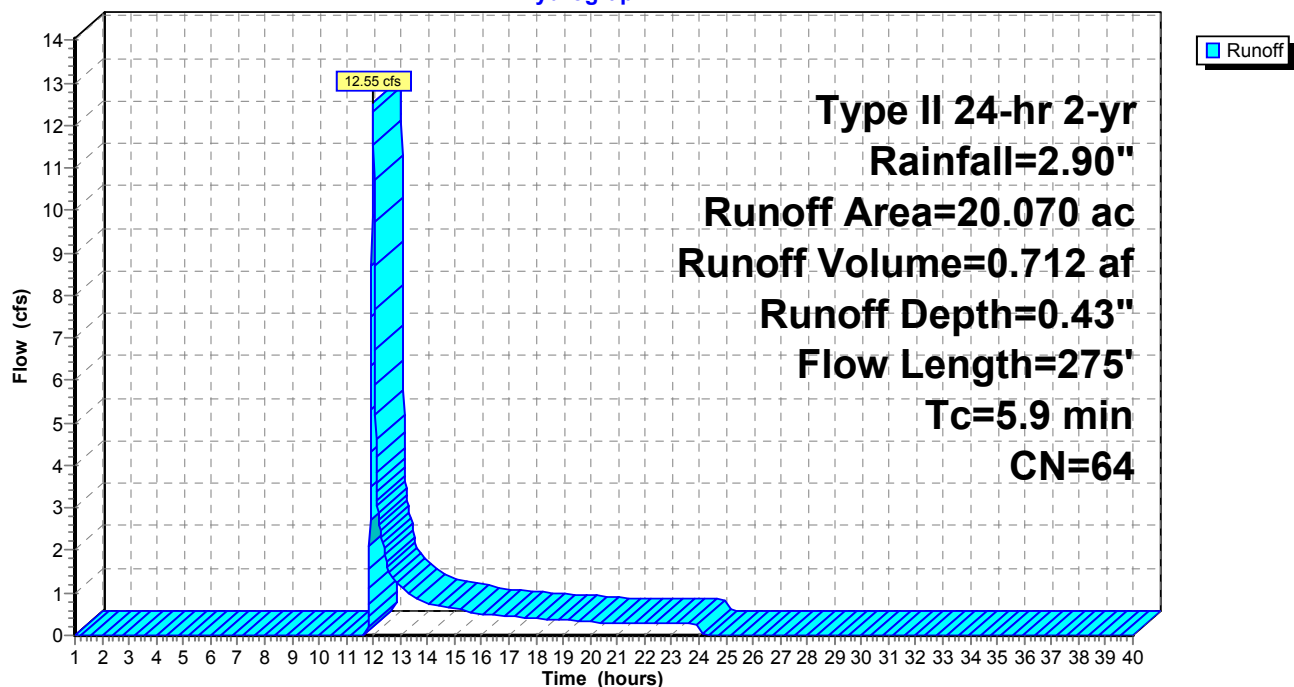
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
20.070	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	275	0.0900	0.8		Lag/CN Method,

Subcatchment C4: C4

Hydrograph



Subcatchment C5: C5

Runoff = 7.71 cfs @ 12.22 hrs, Volume= 0.786 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

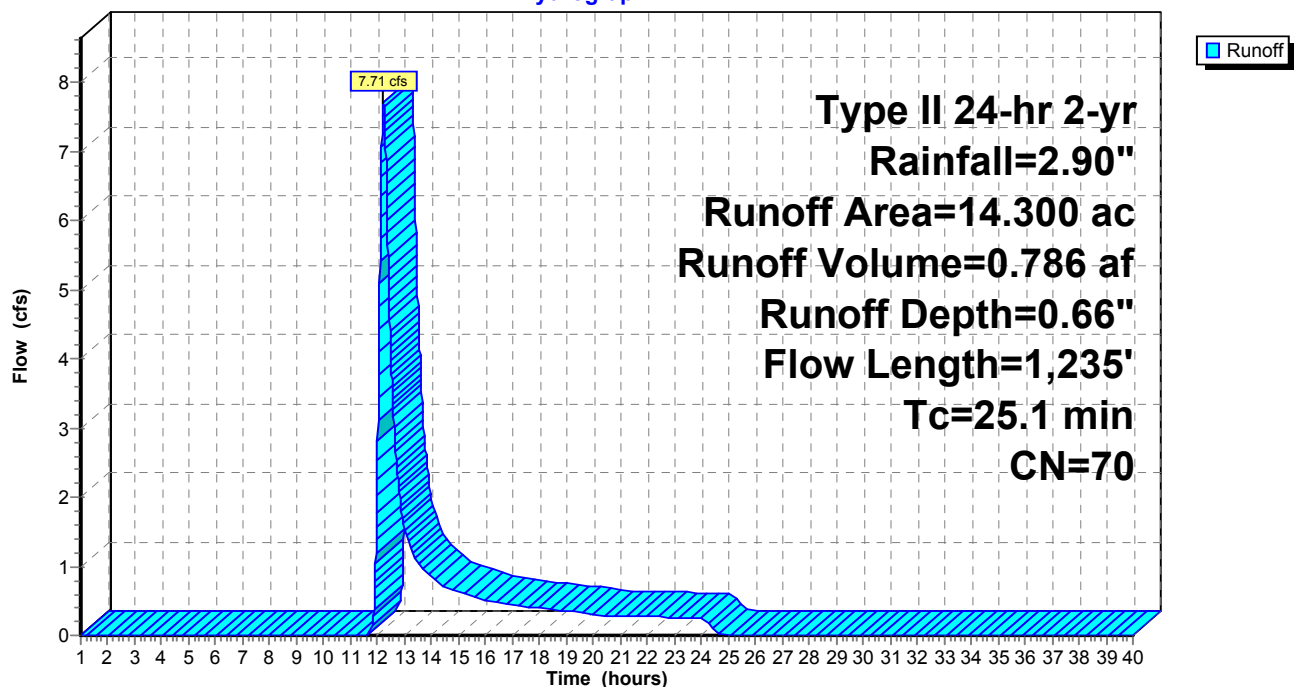
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
14.300	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,235	0.0400	0.8		Lag/CN Method,

Subcatchment C5: C5

Hydrograph



Subcatchment C6: C6

Runoff = 13.70 cfs @ 11.98 hrs, Volume= 0.676 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

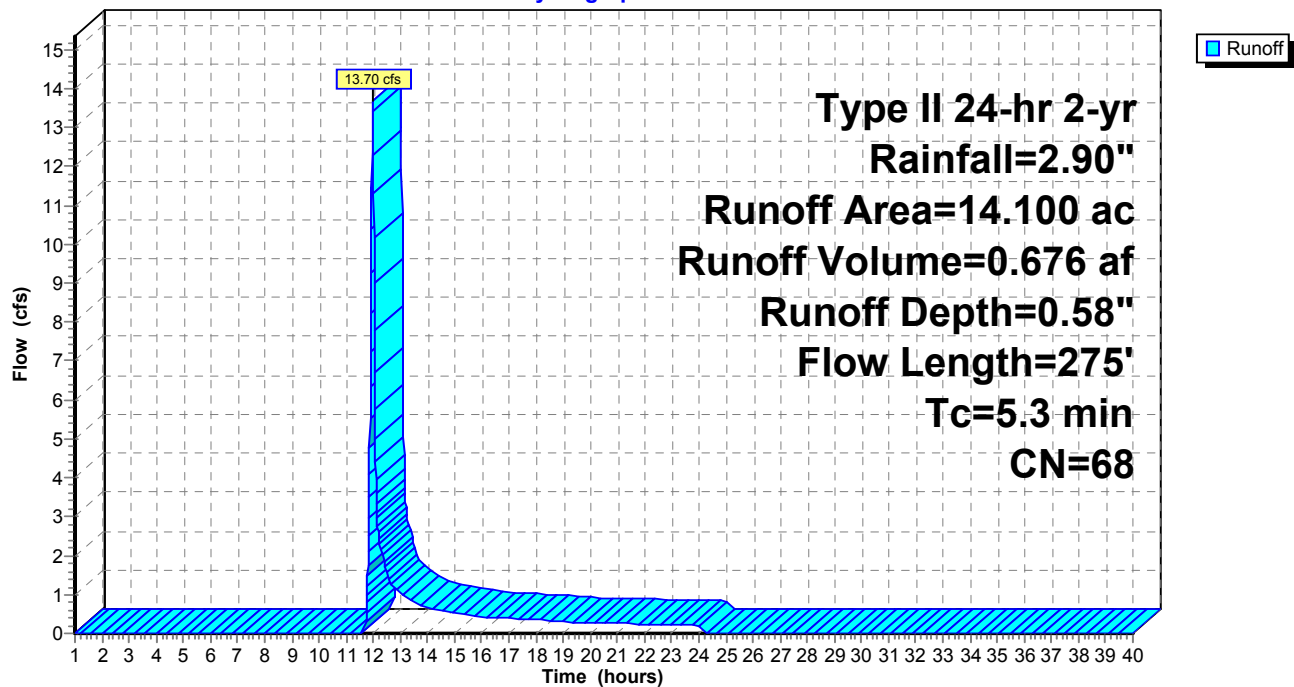
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
14.100	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	275	0.0900	0.9		Lag/CN Method,

Subcatchment C6: C6

Hydrograph



Subcatchment C7: C7

Runoff = 12.74 cfs @ 11.97 hrs, Volume= 0.584 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

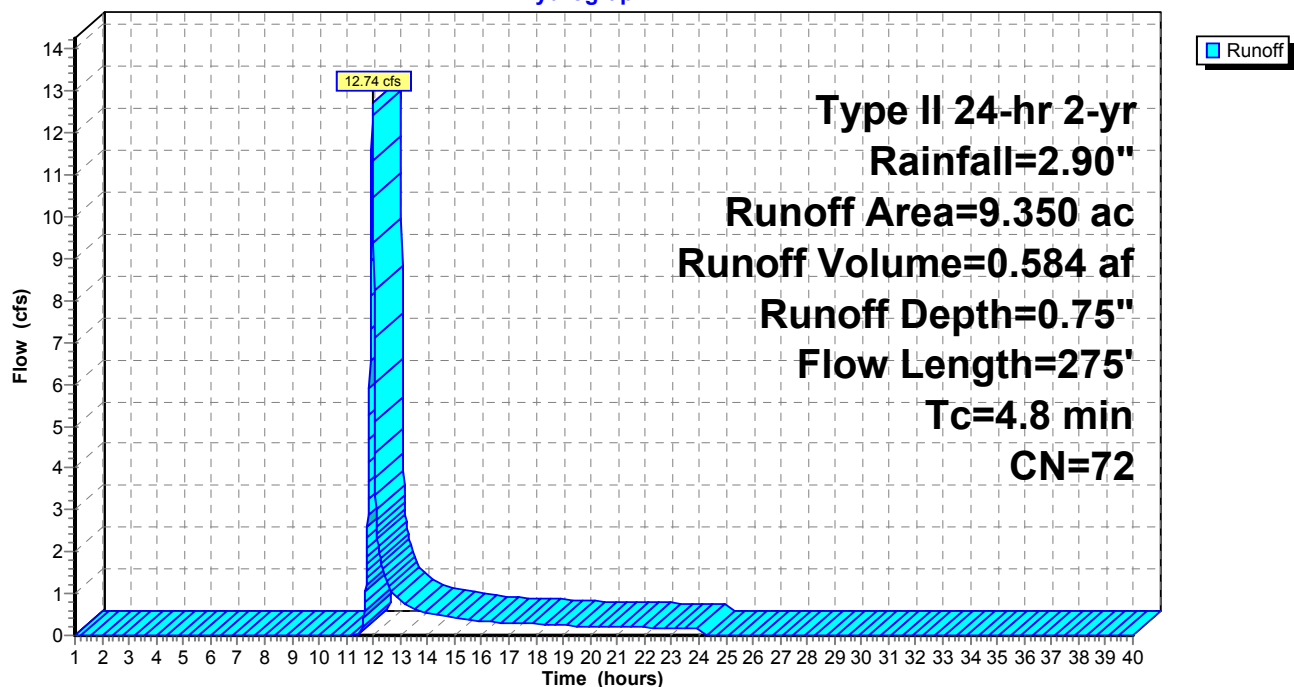
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.350	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	275	0.0900	1.0		Lag/CN Method,

Subcatchment C7: C7

Hydrograph



Subcatchment C8: C8

Runoff = 9.88 cfs @ 11.94 hrs, Volume= 0.406 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

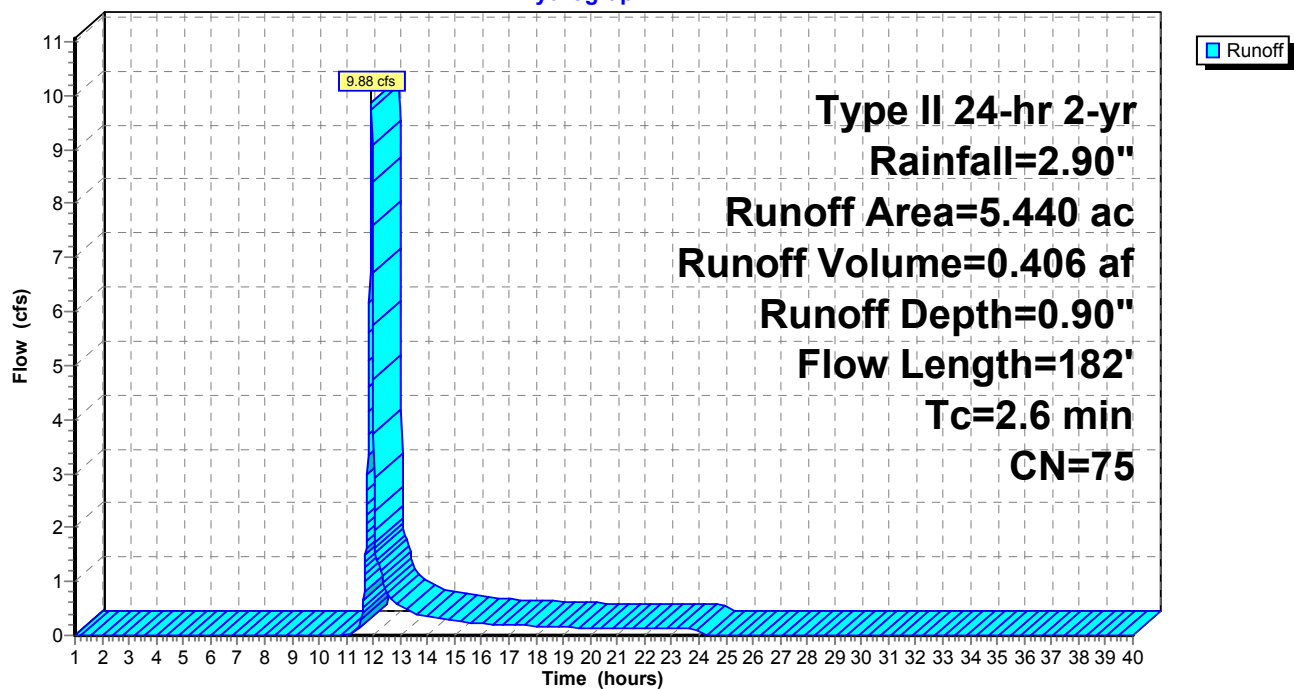
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	182	0.1300	1.2		Lag/CN Method,

Subcatchment C8: C8

Hydrograph



Subcatchment W100: W100

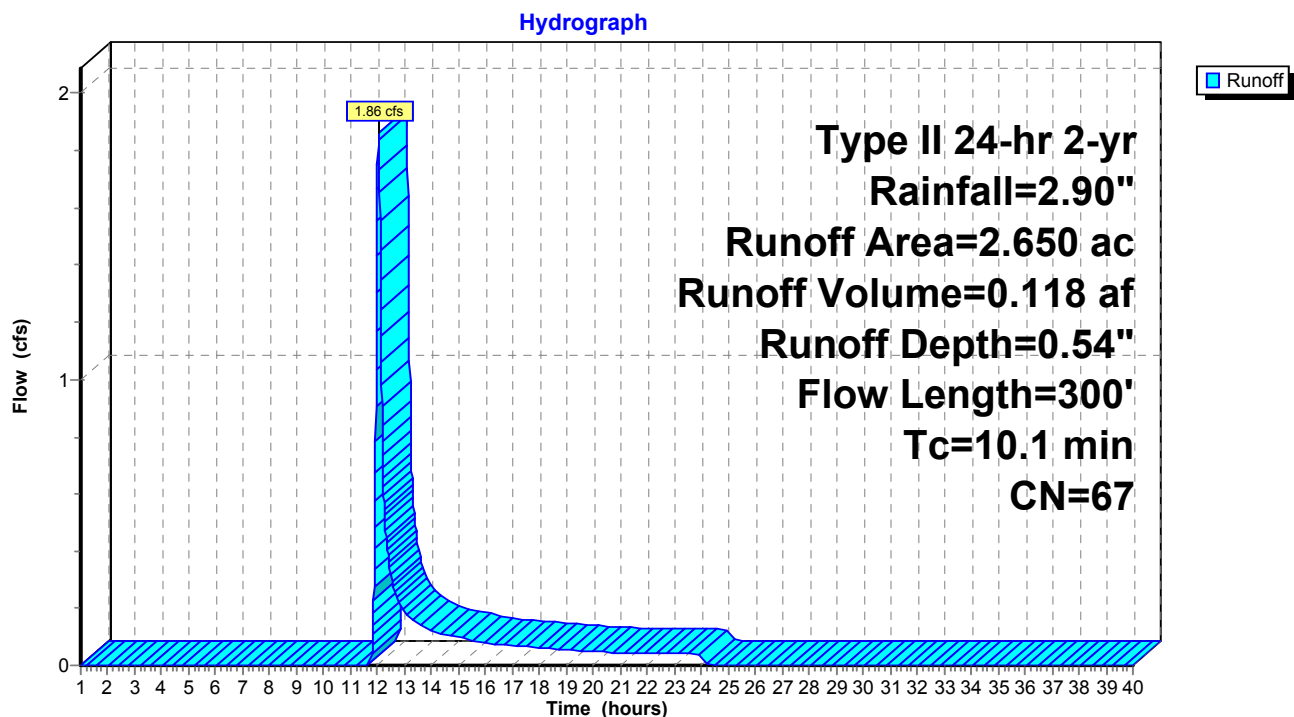
Runoff = 1.86 cfs @ 12.04 hrs, Volume= 0.118 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
2.650	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	300	0.0300	0.5		Lag/CN Method,

Subcatchment W100: W100

Subcatchment W101: W101

Runoff = 8.03 cfs @ 12.35 hrs, Volume= 1.115 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

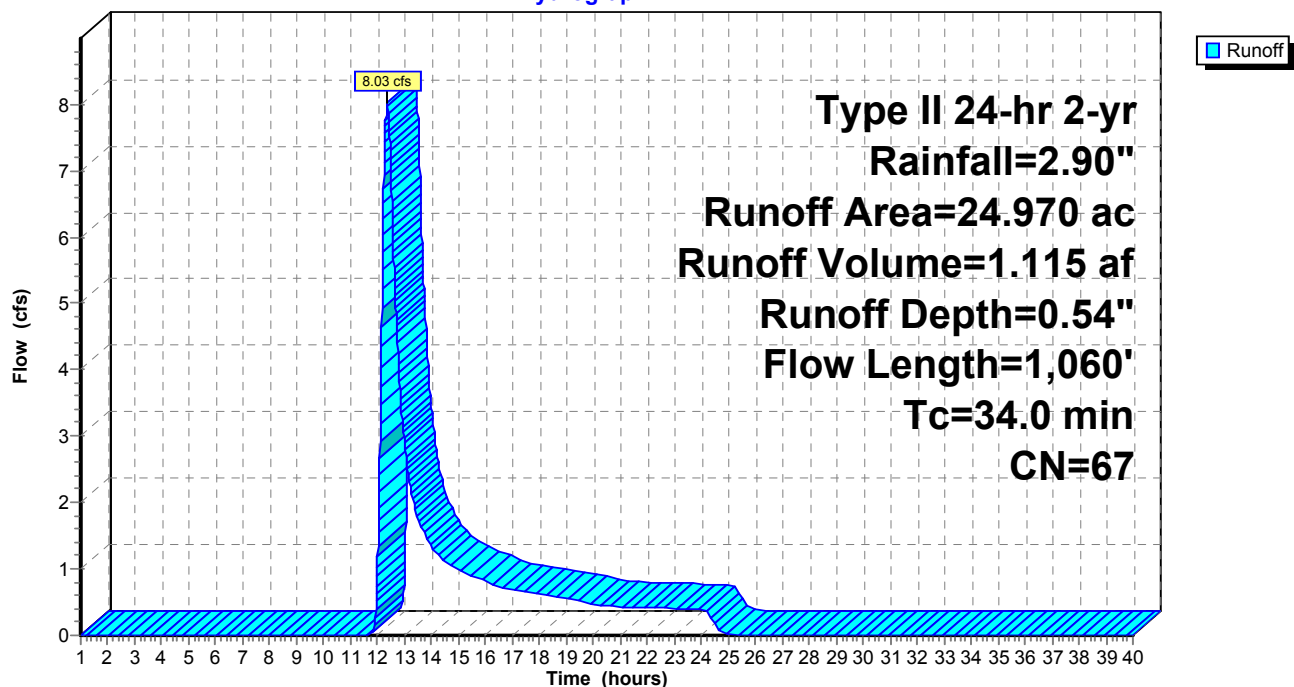
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
24.970	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.0	1,060	0.0200	0.5		Lag/CN Method,

Subcatchment W101: W101

Hydrograph



Subcatchment W102: W102

Runoff = 55.67 cfs @ 12.20 hrs, Volume= 4.956 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

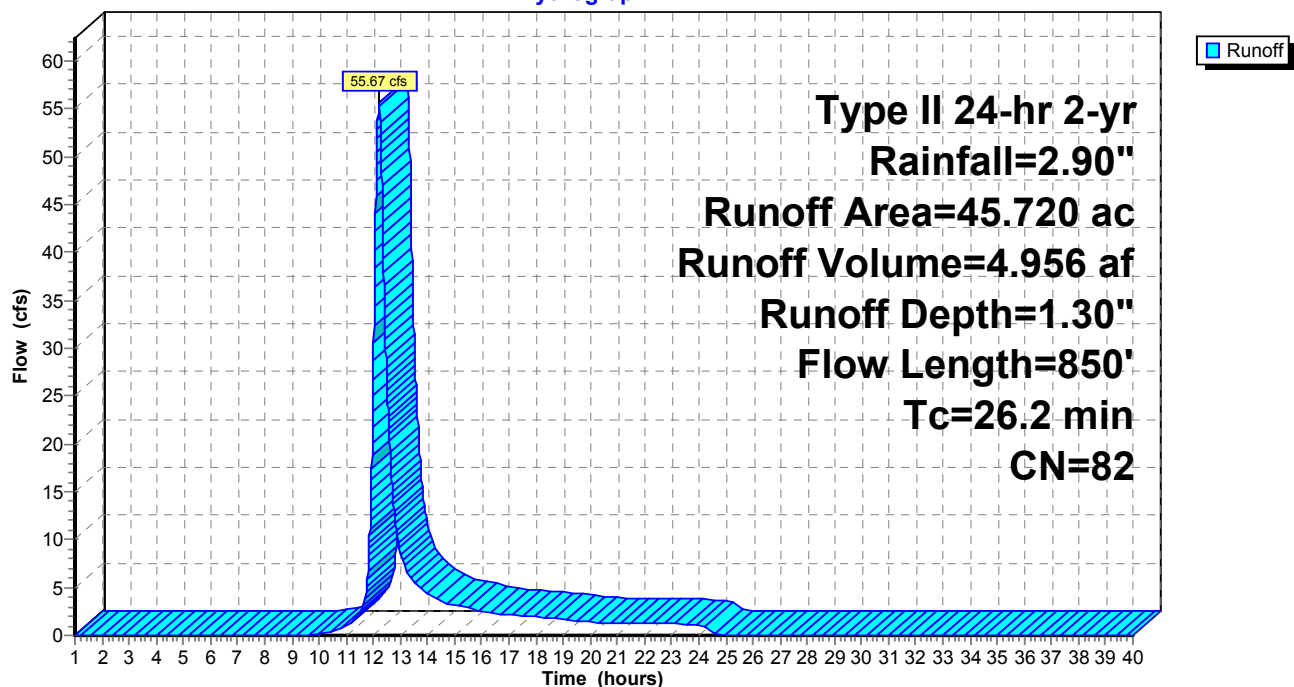
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
45.720	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.2	850	0.0100	0.5		Lag/CN Method,

Subcatchment W102: W102

Hydrograph



Subcatchment W103: W103

Runoff = 0.22 cfs @ 12.06 hrs, Volume= 0.056 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

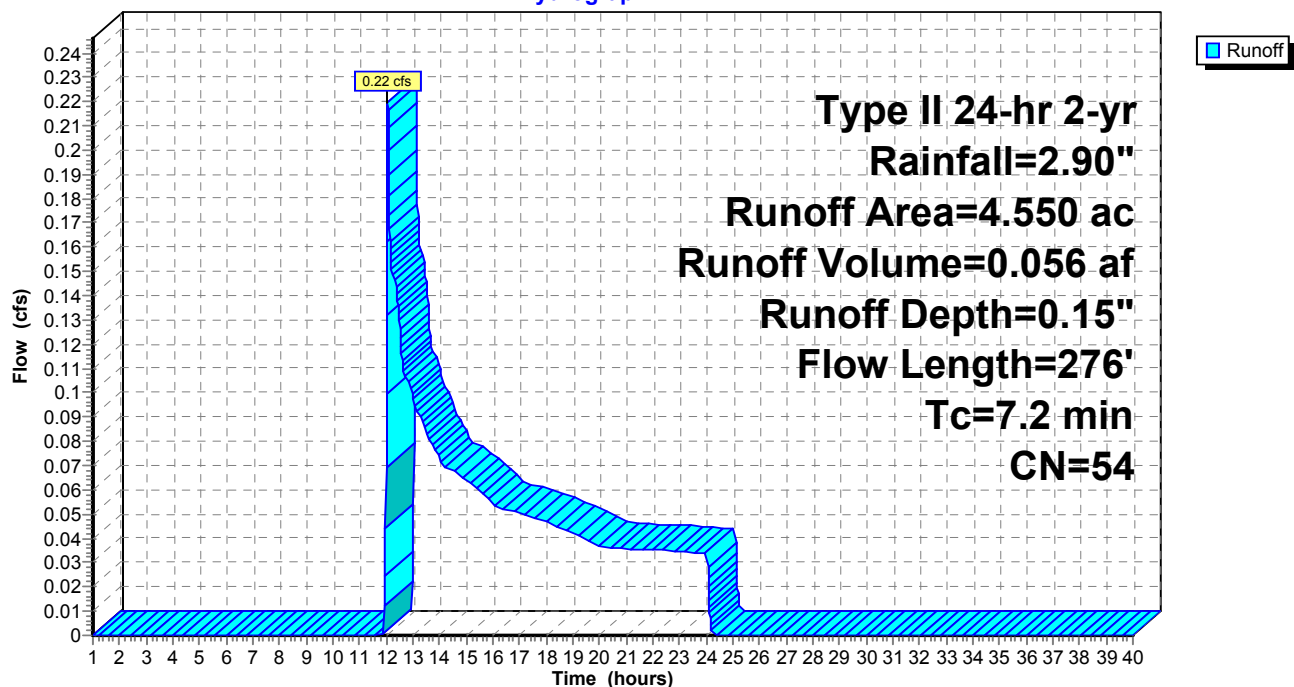
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
4.550	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	276	0.1000	0.6		Lag/CN Method,

Subcatchment W103: W103

Hydrograph



Subcatchment W104: W104

Runoff = 38.20 cfs @ 12.27 hrs, Volume= 4.126 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

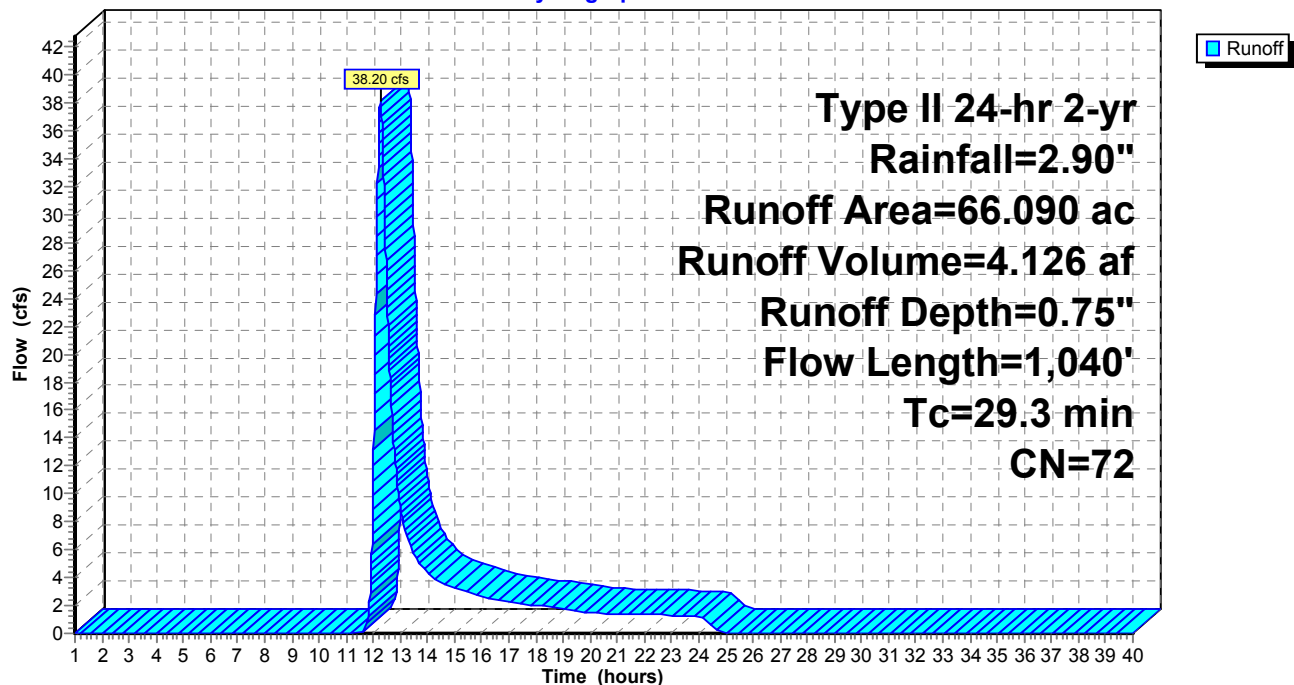
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
66.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.3	1,040	0.0200	0.6		Lag/CN Method,

Subcatchment W104: W104

Hydrograph



Subcatchment W105: W105

Runoff = 2.51 cfs @ 12.12 hrs, Volume= 0.295 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

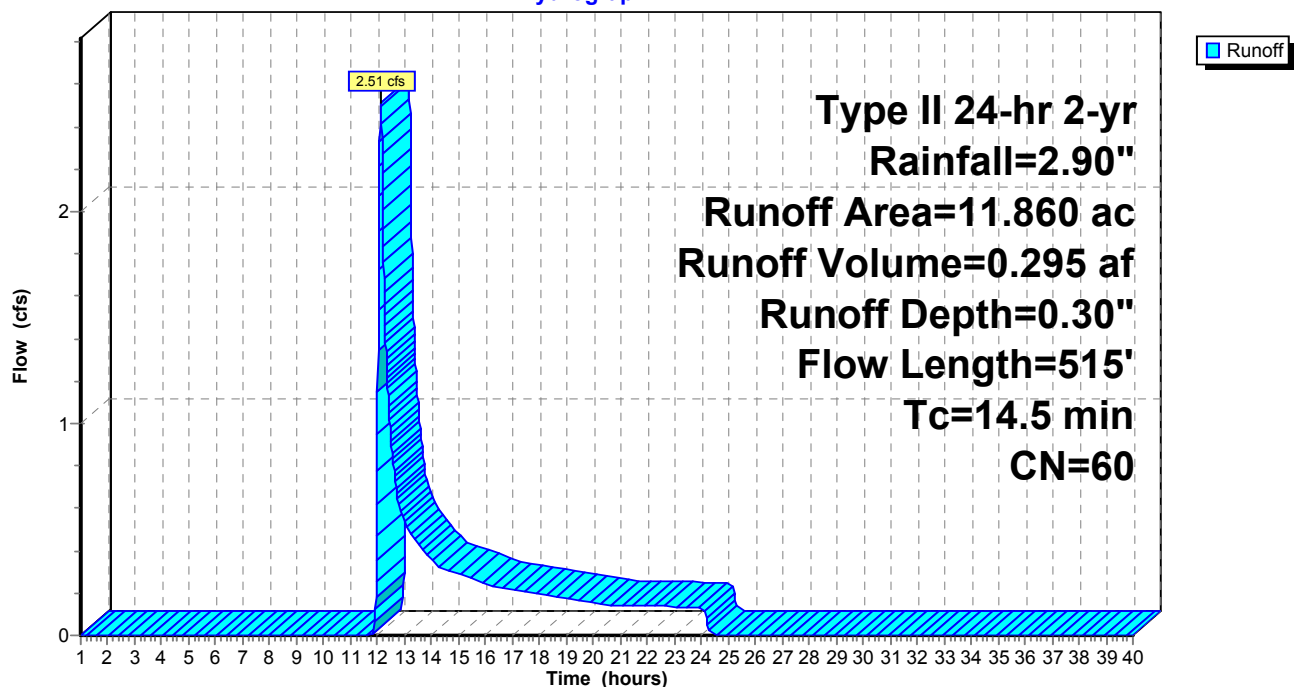
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
11.860	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	515	0.0500	0.6		Lag/CN Method,

Subcatchment W105: W105

Hydrograph



Subcatchment W106: W106

Runoff = 23.06 cfs @ 11.97 hrs, Volume= 1.055 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

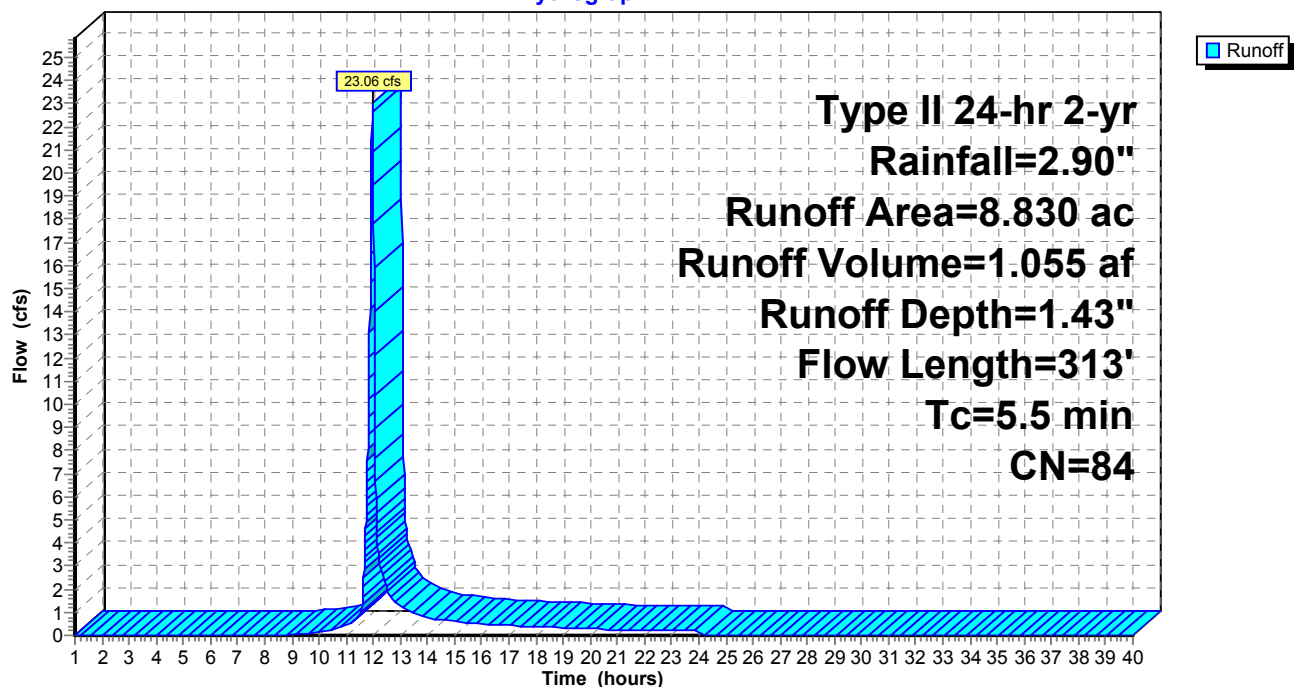
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.830	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	313	0.0400	0.9		Lag/CN Method,

Subcatchment W106: W106

Hydrograph



Subcatchment W107: W107

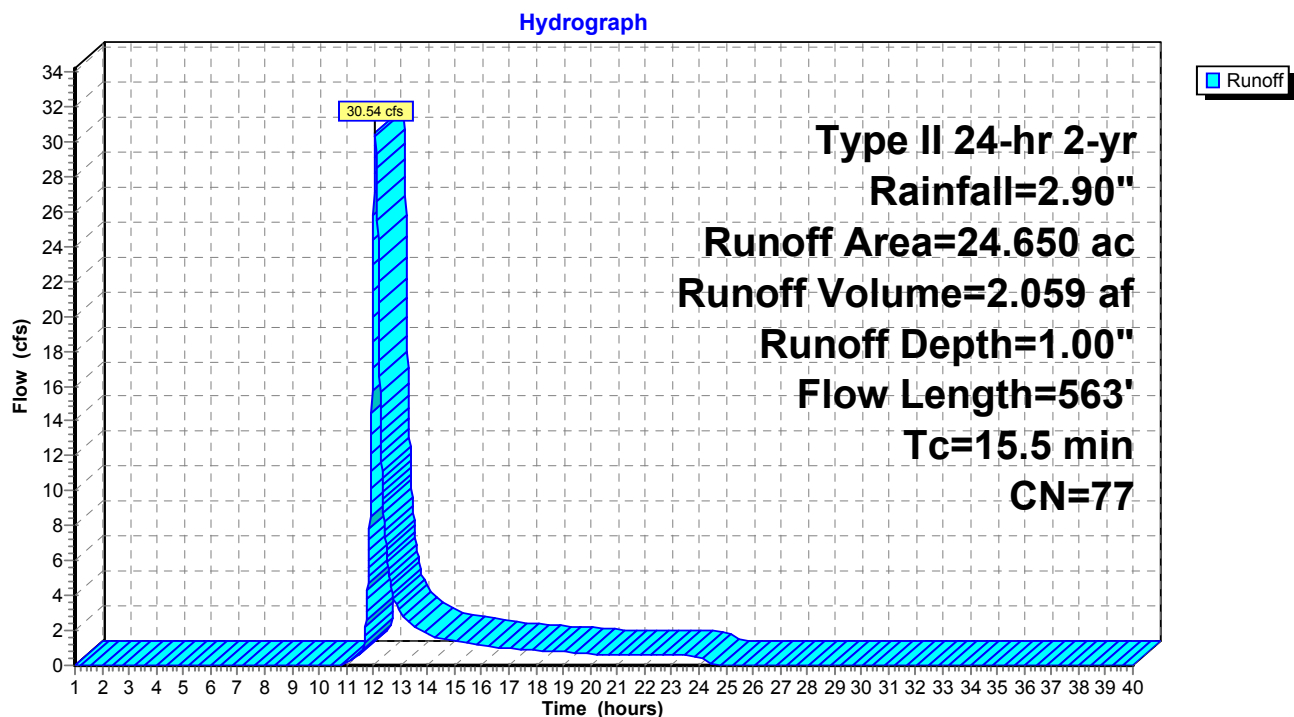
Runoff = 30.54 cfs @ 12.09 hrs, Volume= 2.059 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
24.650	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	563	0.0200	0.6		Lag/CN Method,

Subcatchment W107: W107

Subcatchment W108: W108

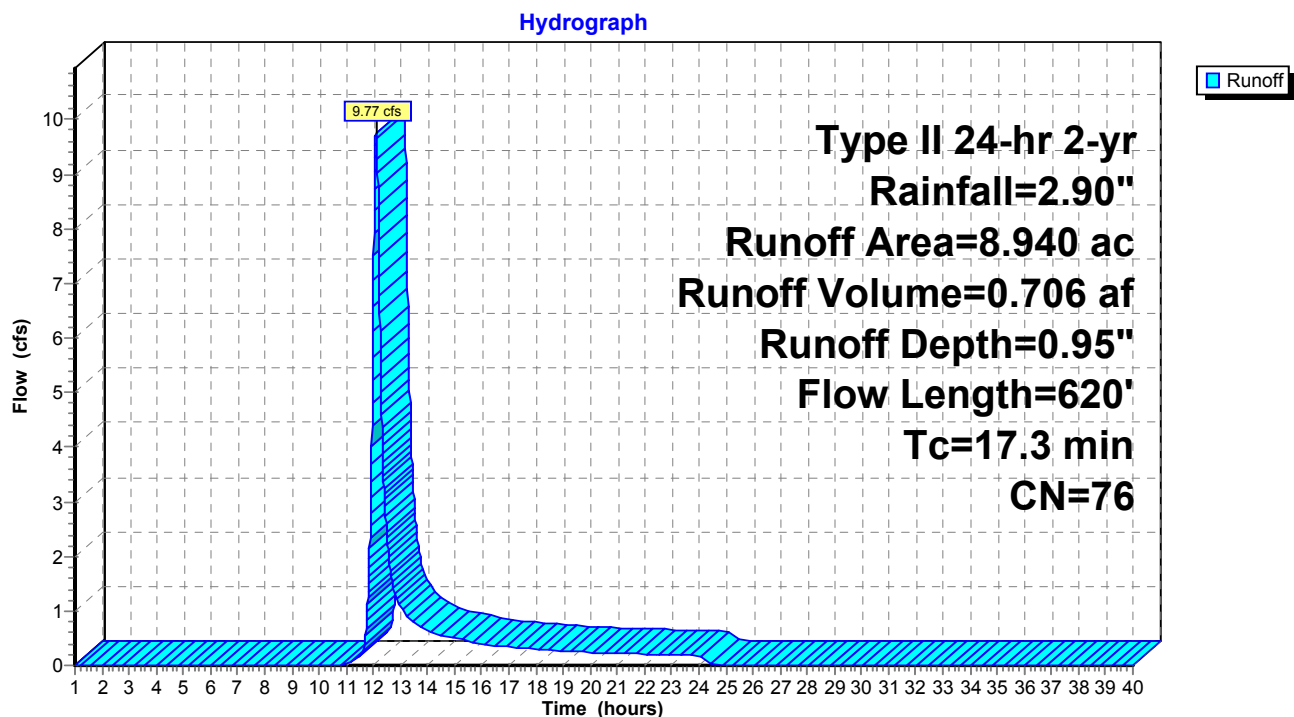
Runoff = 9.77 cfs @ 12.11 hrs, Volume= 0.706 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.940	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	620	0.0200	0.6		Lag/CN Method,

Subcatchment W108: W108

Subcatchment W109: W109

Runoff = 2.80 cfs @ 12.27 hrs, Volume= 0.322 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

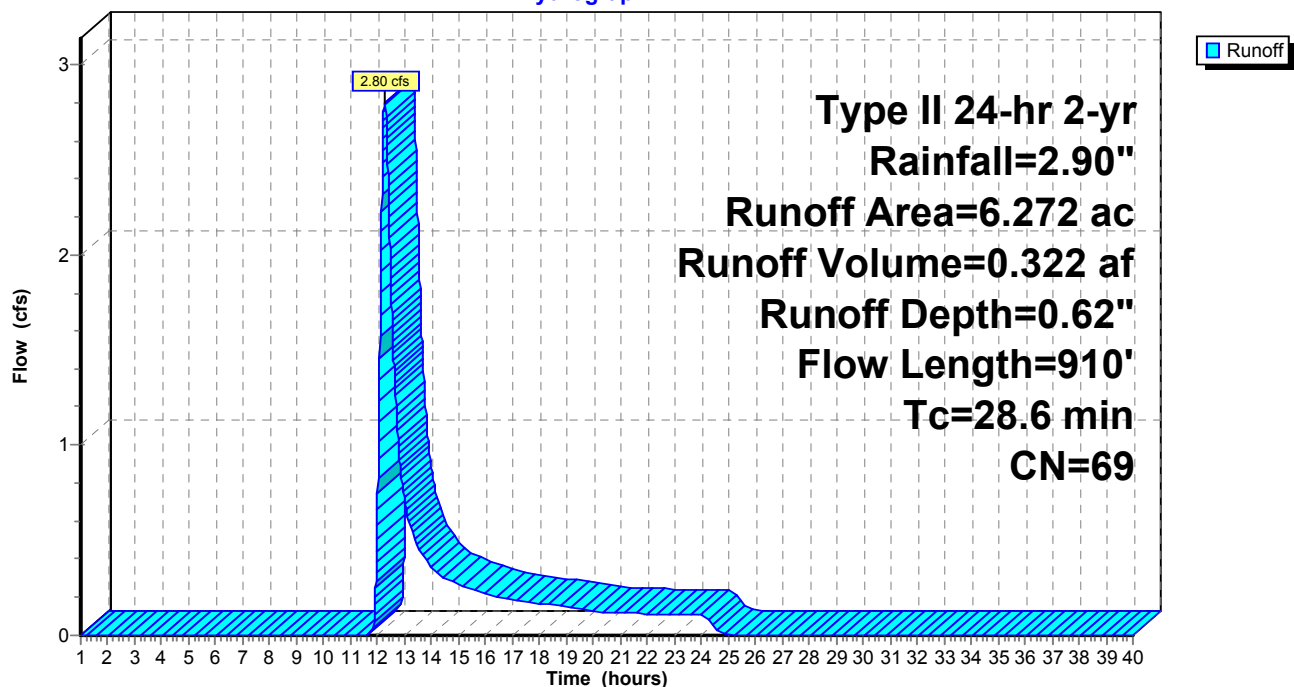
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
6.272	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	910	0.0200	0.5		Lag/CN Method,

Subcatchment W109: W109

Hydrograph



Subcatchment W110: W110

Runoff = 1.92 cfs @ 14.23 hrs, Volume= 0.948 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

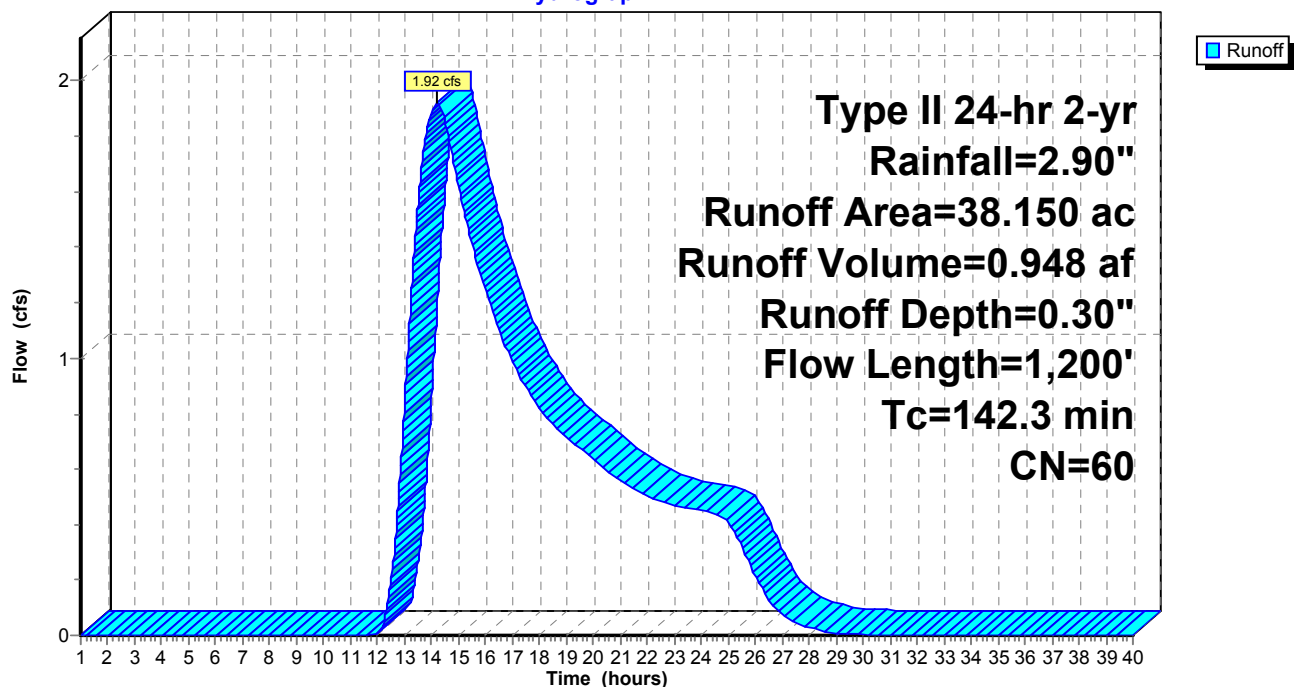
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
38.150	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
142.3	1,200	0.0020	0.1		Lag/CN Method,

Subcatchment W110: W110

Hydrograph



Subcatchment W111: W111

Runoff = 3.03 cfs @ 12.03 hrs, Volume= 0.180 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

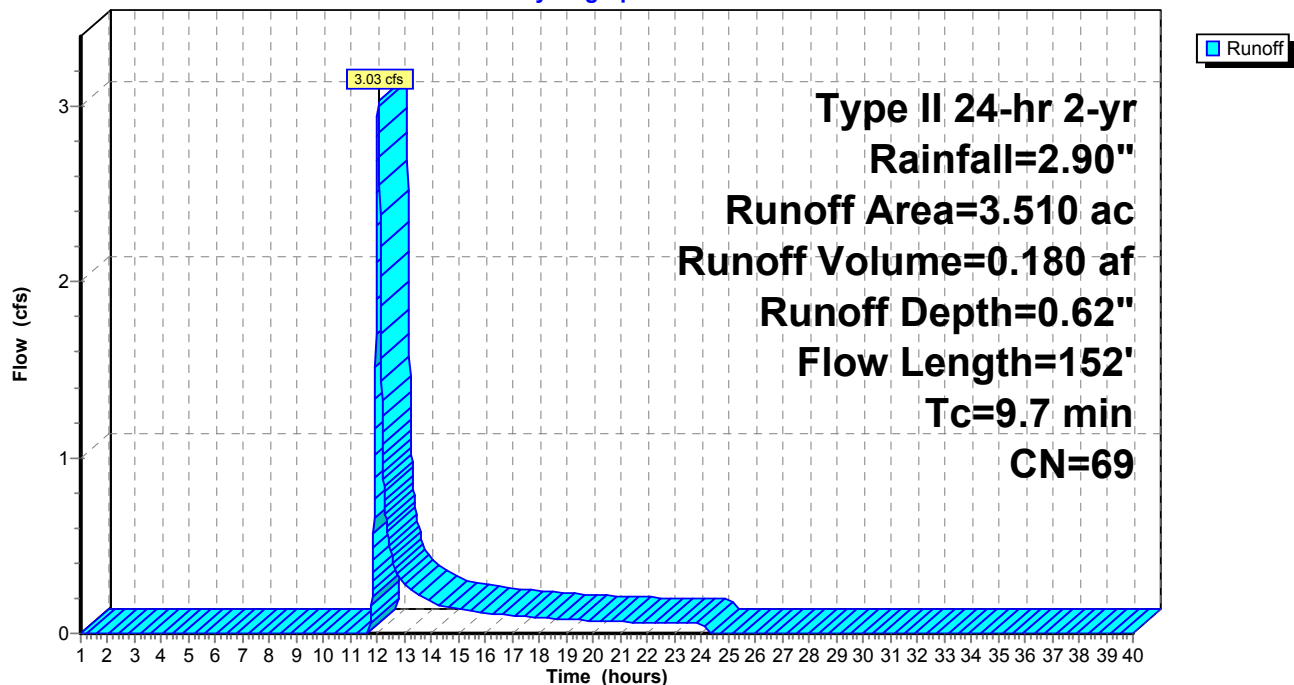
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
3.510	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	152	0.0100	0.3		Lag/CN Method,

Subcatchment W111: W111

Hydrograph



Subcatchment W112: W112

Runoff = 0.71 cfs @ 14.15 hrs, Volume= 0.438 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

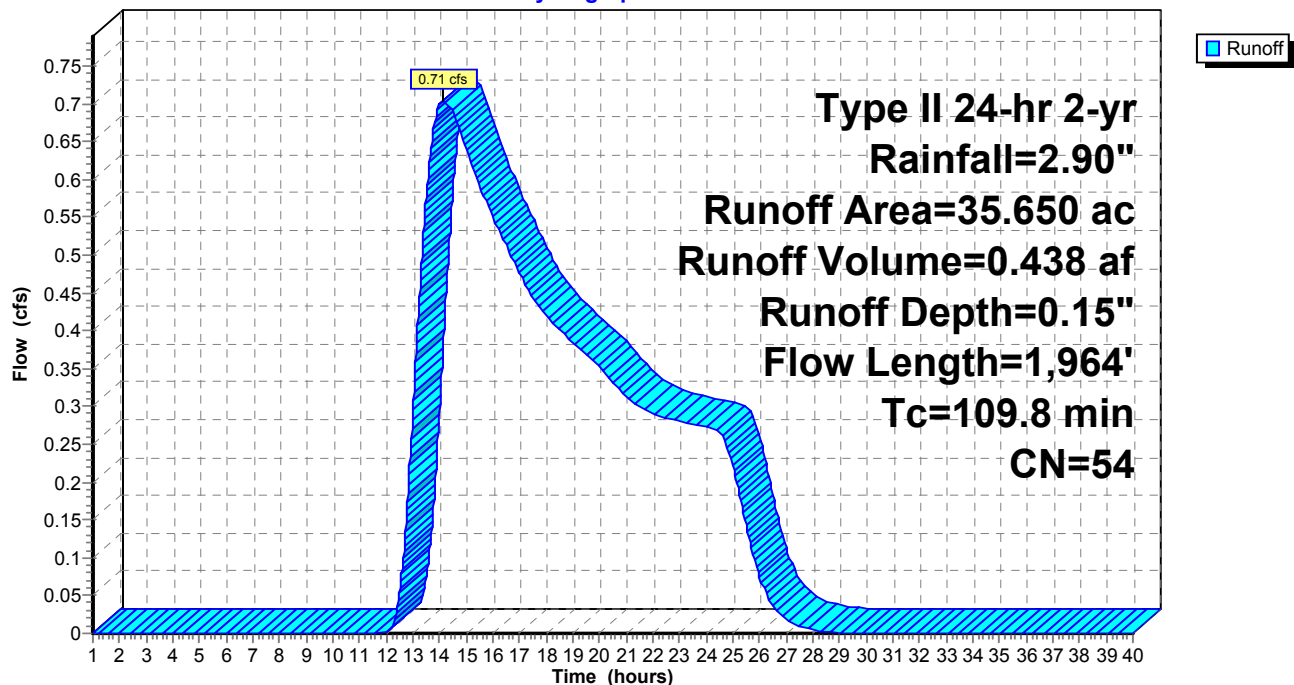
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
35.650	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
109.8	1,964	0.0100	0.3		Lag/CN Method,

Subcatchment W112: W112

Hydrograph



Subcatchment W113: W113

Runoff = 4.75 cfs @ 12.18 hrs, Volume= 0.460 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

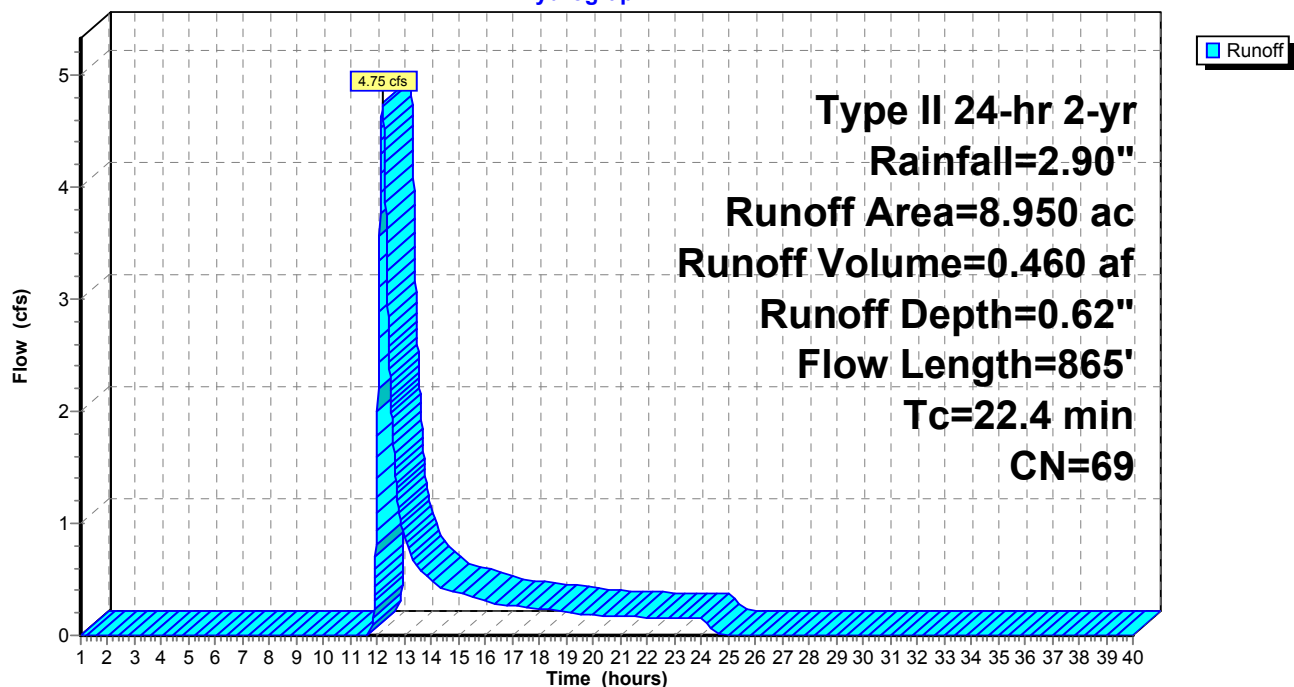
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.950	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	865	0.0300	0.6		Lag/CN Method,

Subcatchment W113: W113

Hydrograph



Subcatchment W114: W114

Runoff = 1.82 cfs @ 12.93 hrs, Volume= 0.709 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

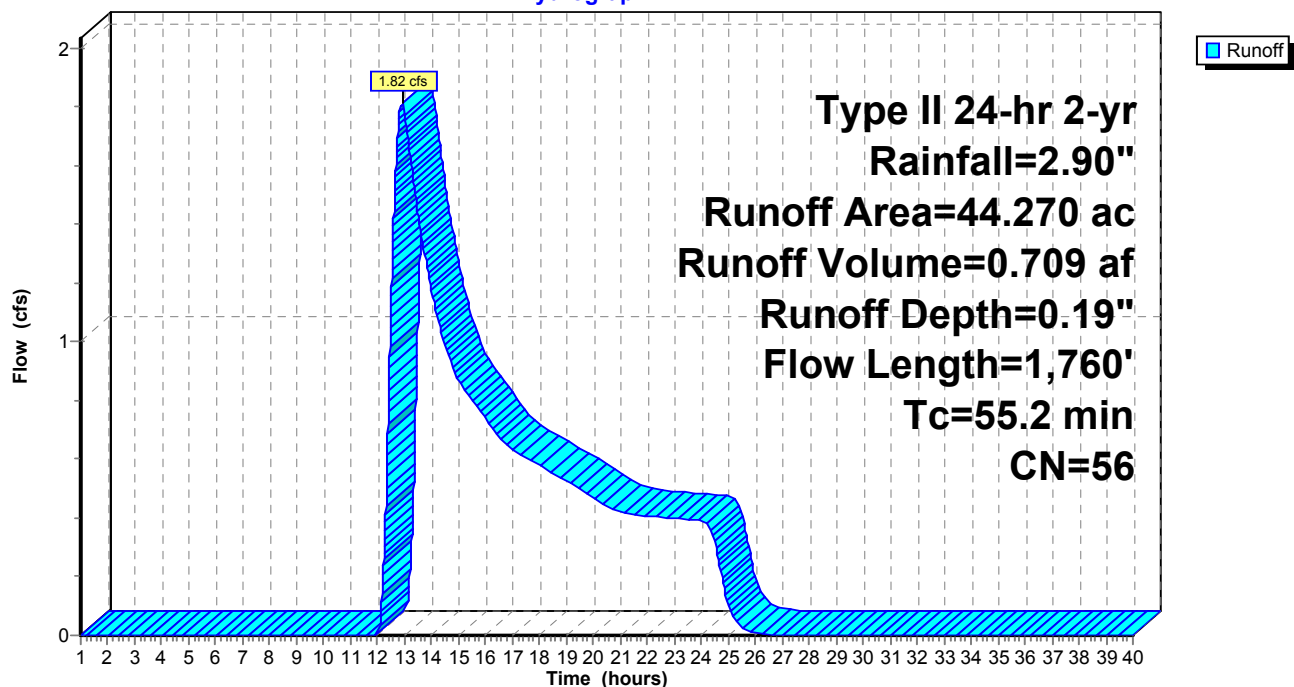
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
44.270	56	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.2	1,760	0.0300	0.5		Lag/CN Method,

Subcatchment W114: W114

Hydrograph



Subcatchment W115: W115

Runoff = 0.76 cfs @ 12.83 hrs, Volume= 0.267 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

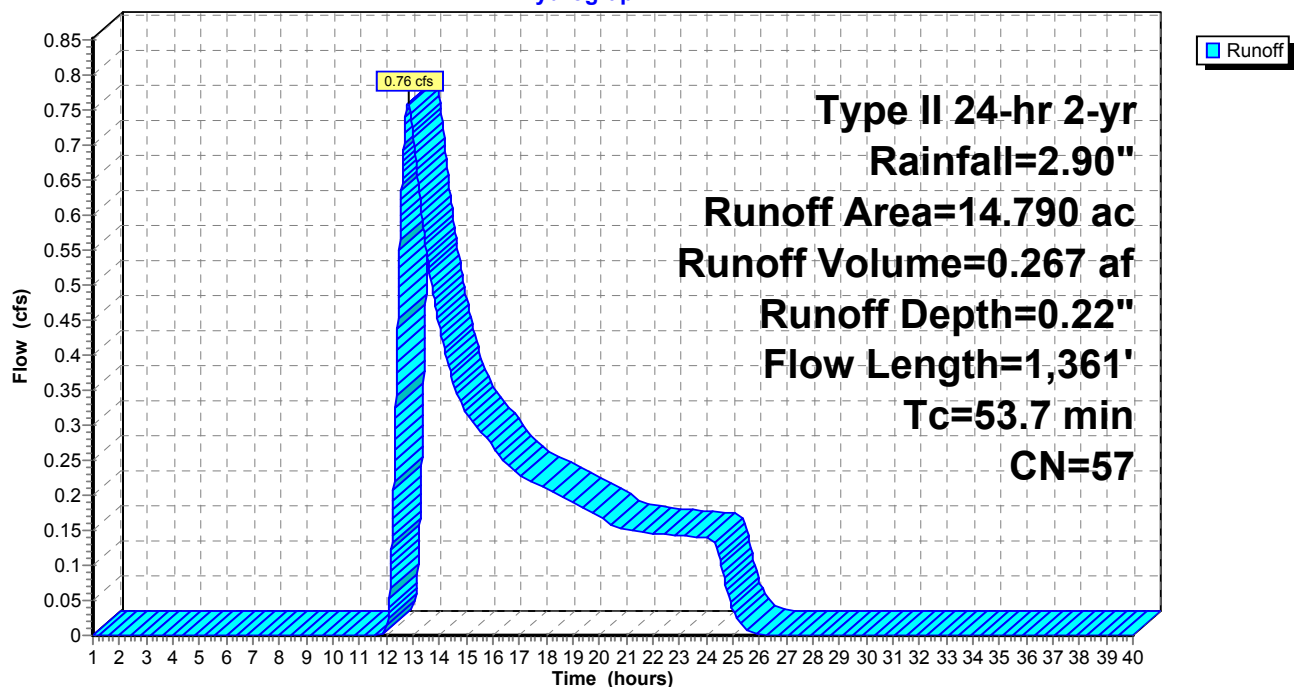
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
14.790	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	1,361	0.0200	0.4		Lag/CN Method,

Subcatchment W115: W115

Hydrograph



Subcatchment W116: W116

Runoff = 4.01 cfs @ 12.02 hrs, Volume= 0.246 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

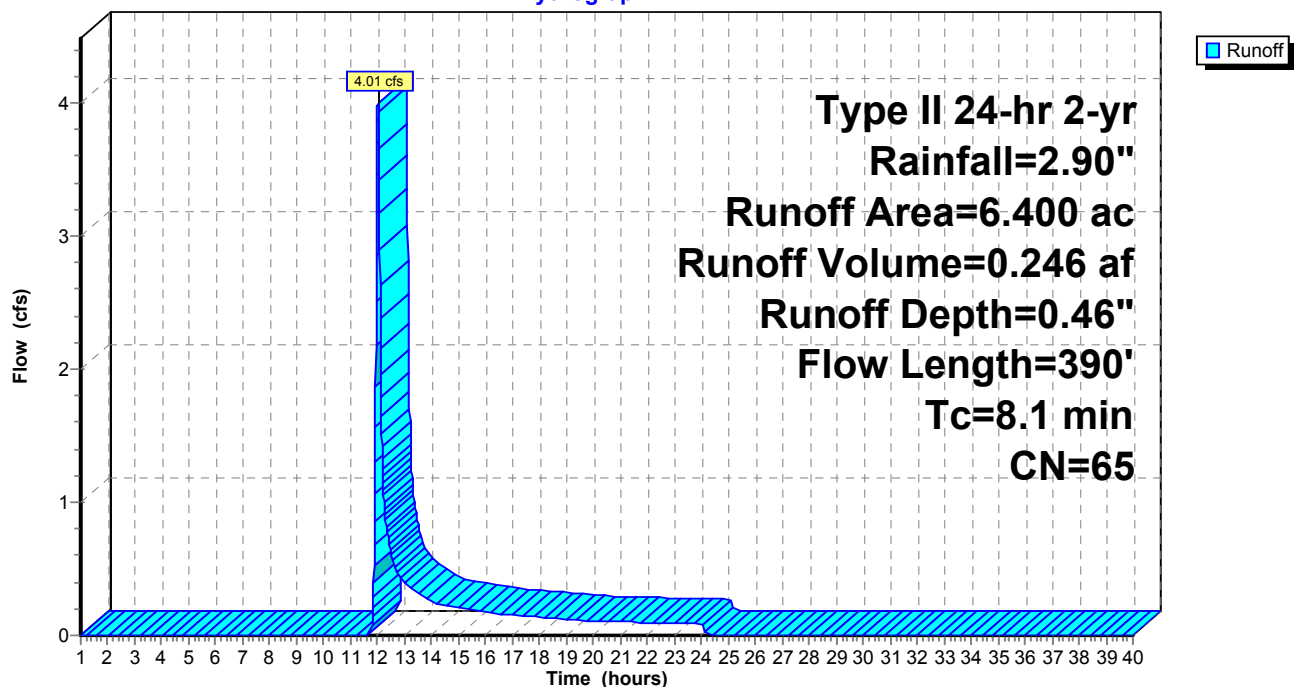
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
6.400	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	390	0.0800	0.8		Lag/CN Method,

Subcatchment W116: W116

Hydrograph



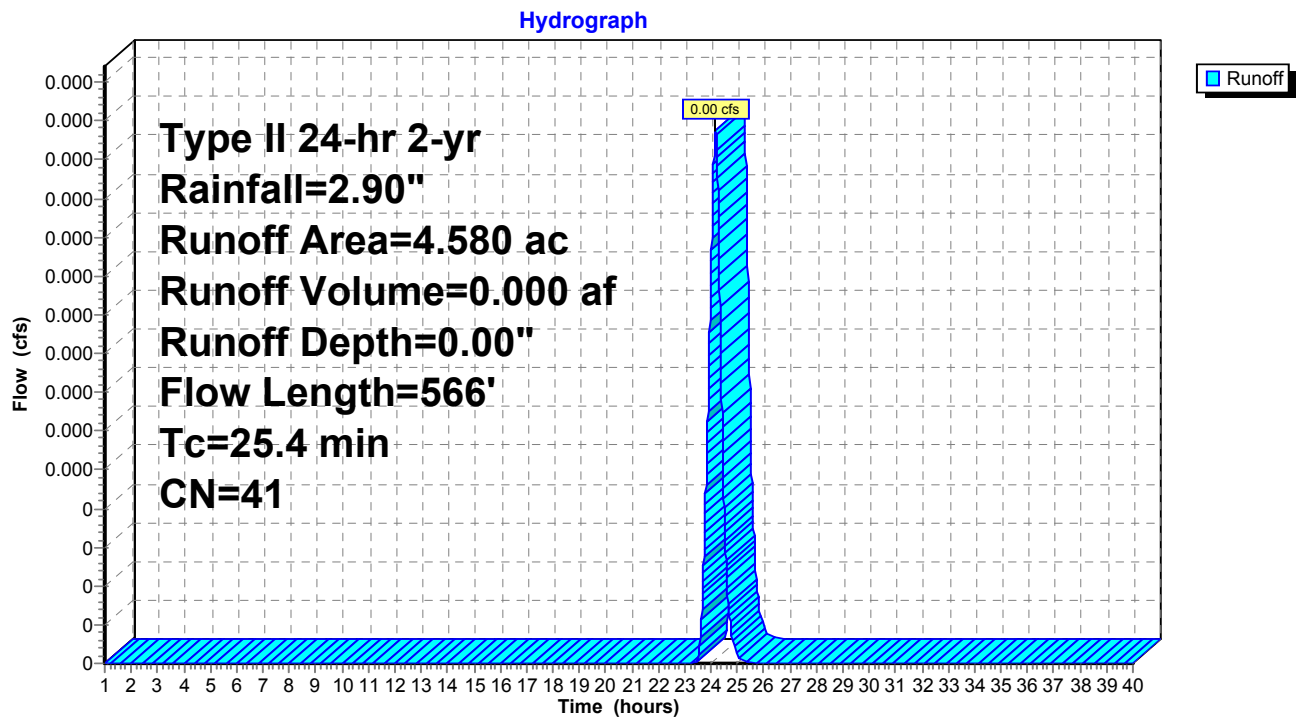
Subcatchment W117: W117

Runoff = 0.00 cfs @ 24.18 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description			
4.580	41				
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	566	0.0500	0.4	Lag/CN Method,	

Subcatchment W117: W117



Subcatchment W118: W118

Runoff = 0.23 cfs @ 14.15 hrs, Volume= 0.177 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

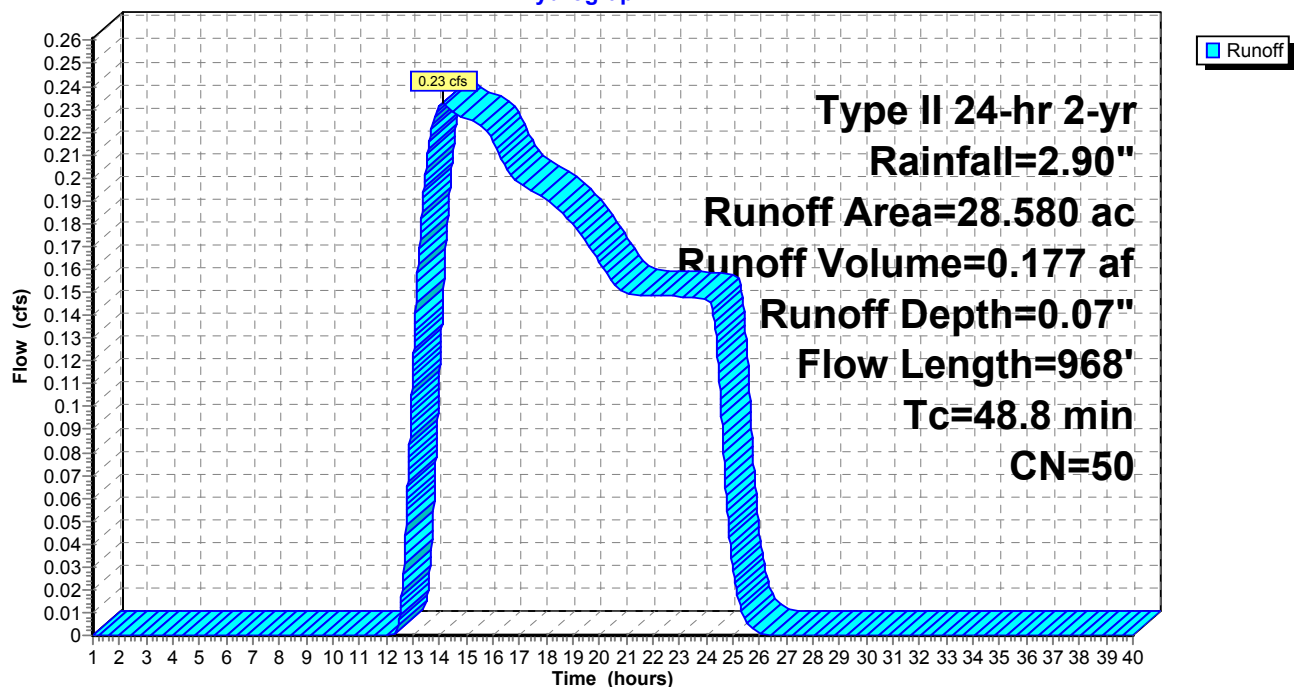
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
28.580	50	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.8	968	0.0200	0.3		Lag/CN Method,

Subcatchment W118: W118

Hydrograph



Subcatchment W119: W119

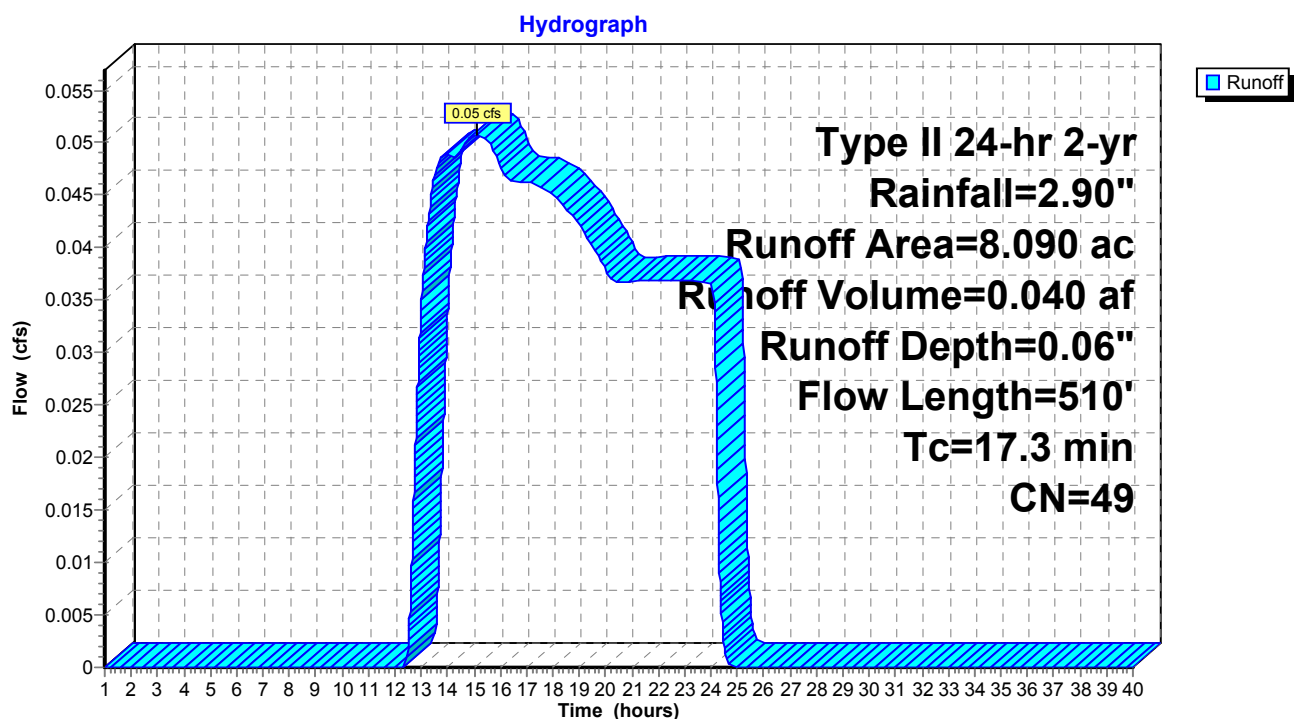
Runoff = 0.05 cfs @ 15.09 hrs, Volume= 0.040 af, Depth= 0.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.090	49	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	510	0.0600	0.5		Lag/CN Method,

Subcatchment W119: W119

Subcatchment W12: W12

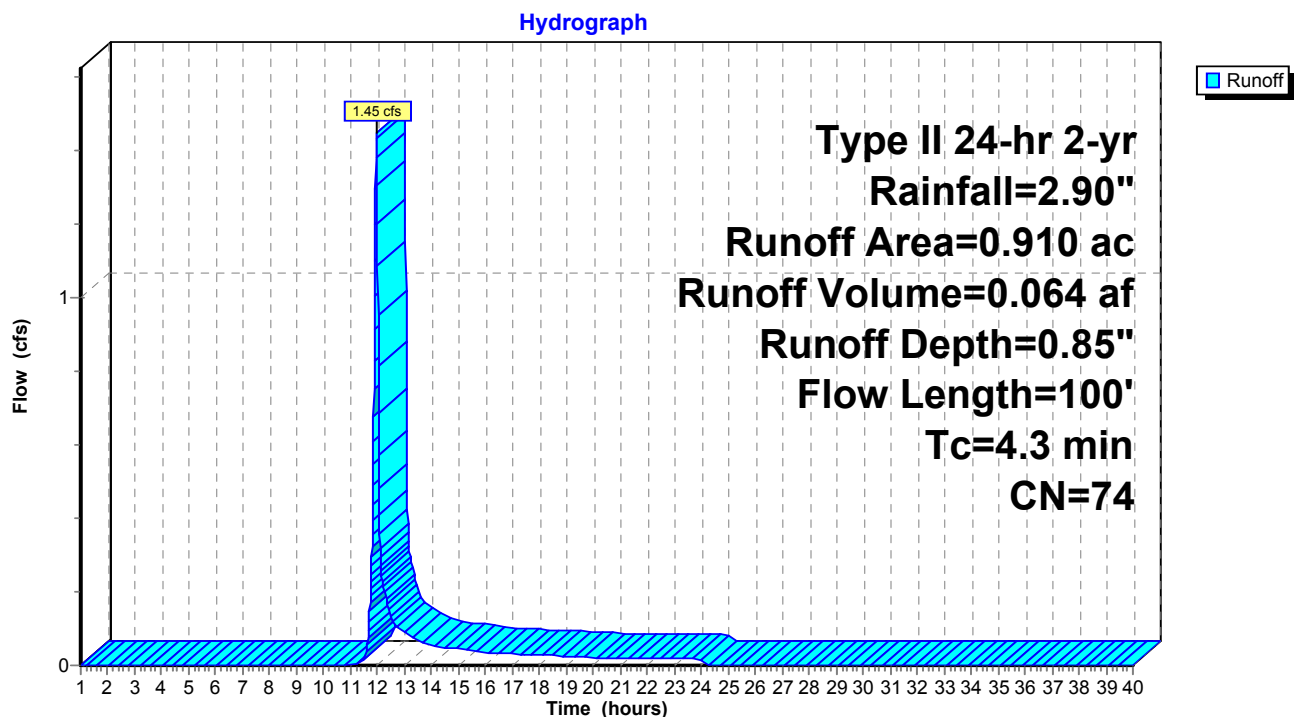
Runoff = 1.45 cfs @ 11.96 hrs, Volume= 0.064 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
0.910	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.0200	0.4		Lag/CN Method,

Subcatchment W12: W12

Subcatchment W120: W120

Runoff = 0.03 cfs @ 24.19 hrs, Volume= 0.015 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

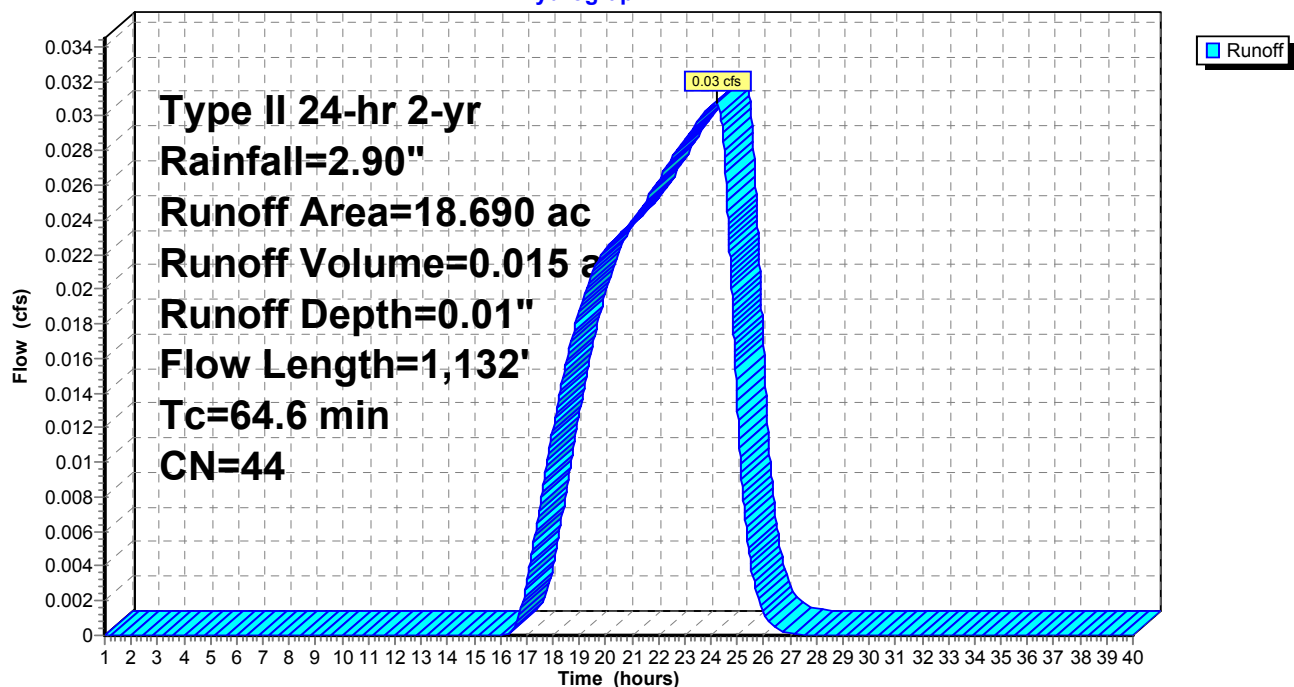
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.690	44	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.6	1,132	0.0200	0.3		Lag/CN Method,

Subcatchment W120: W120

Hydrograph



Subcatchment W121: W121

Runoff = 5.96 cfs @ 12.02 hrs, Volume= 0.349 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

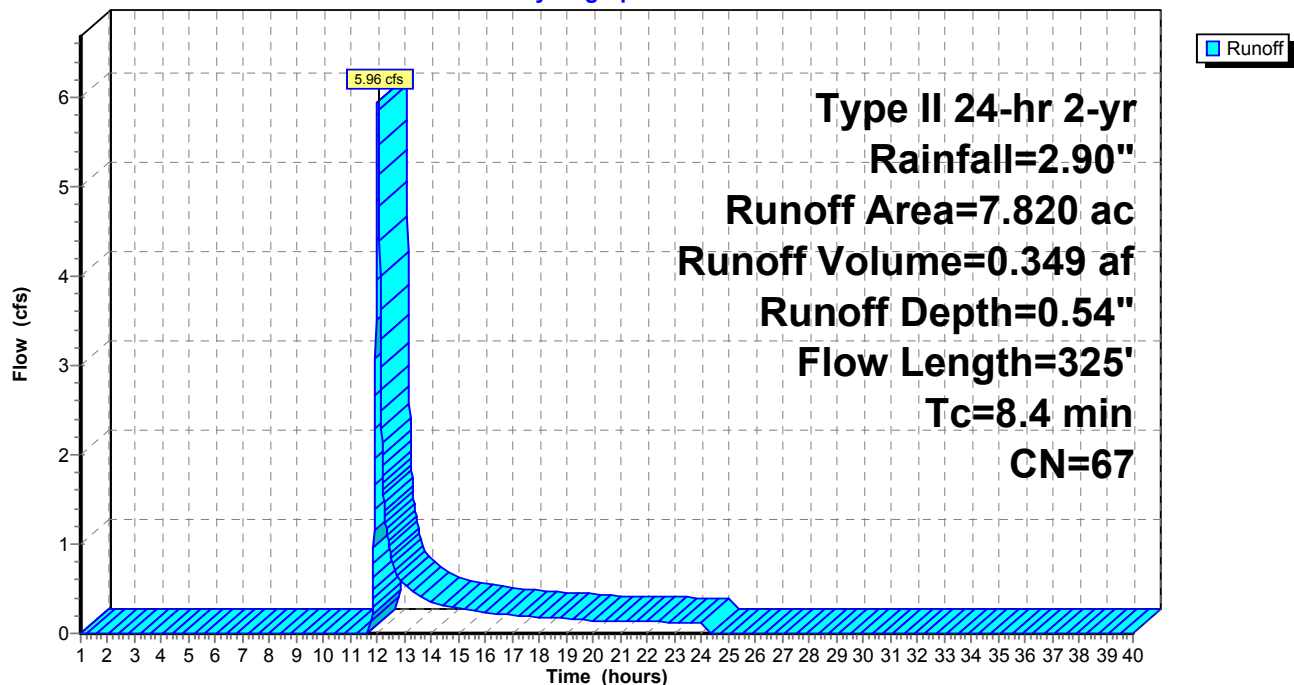
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.820	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	325	0.0500	0.6		Lag/CN Method,

Subcatchment W121: W121

Hydrograph



Subcatchment W122: W122

Runoff = 18.78 cfs @ 12.09 hrs, Volume= 1.279 af, Depth= 1.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

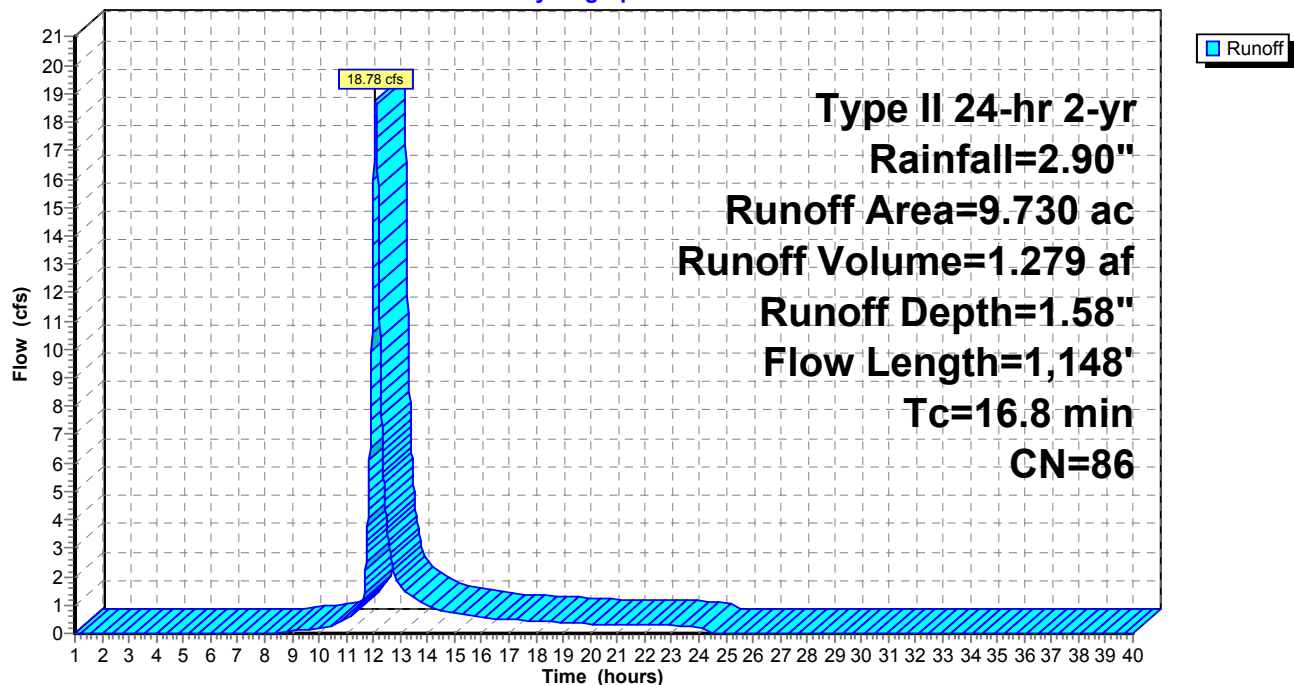
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.730	86	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,148	0.0300	1.1		Lag/CN Method,

Subcatchment W122: W122

Hydrograph



Subcatchment W123: W123

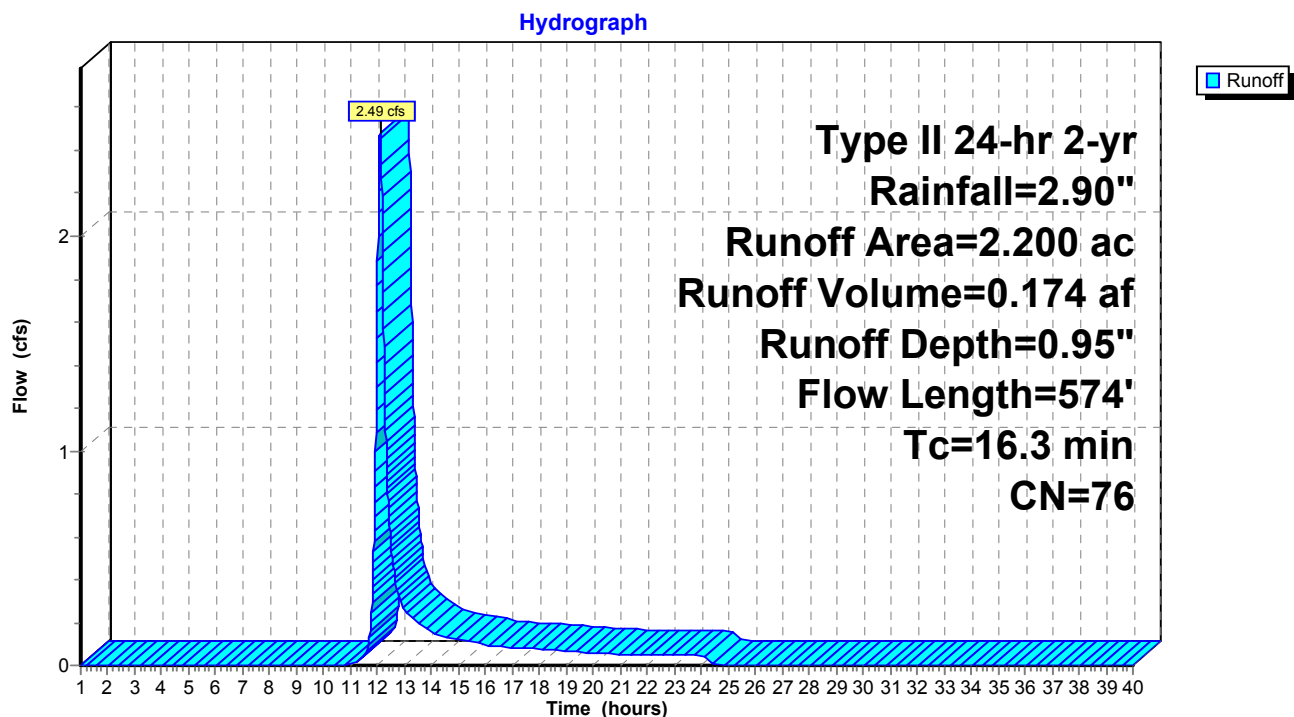
Runoff = 2.49 cfs @ 12.10 hrs, Volume= 0.174 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
2.200	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	574	0.0200	0.6		Lag/CN Method,

Subcatchment W123: W123

Subcatchment W124: W124

Runoff = 0.59 cfs @ 12.08 hrs, Volume= 0.040 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

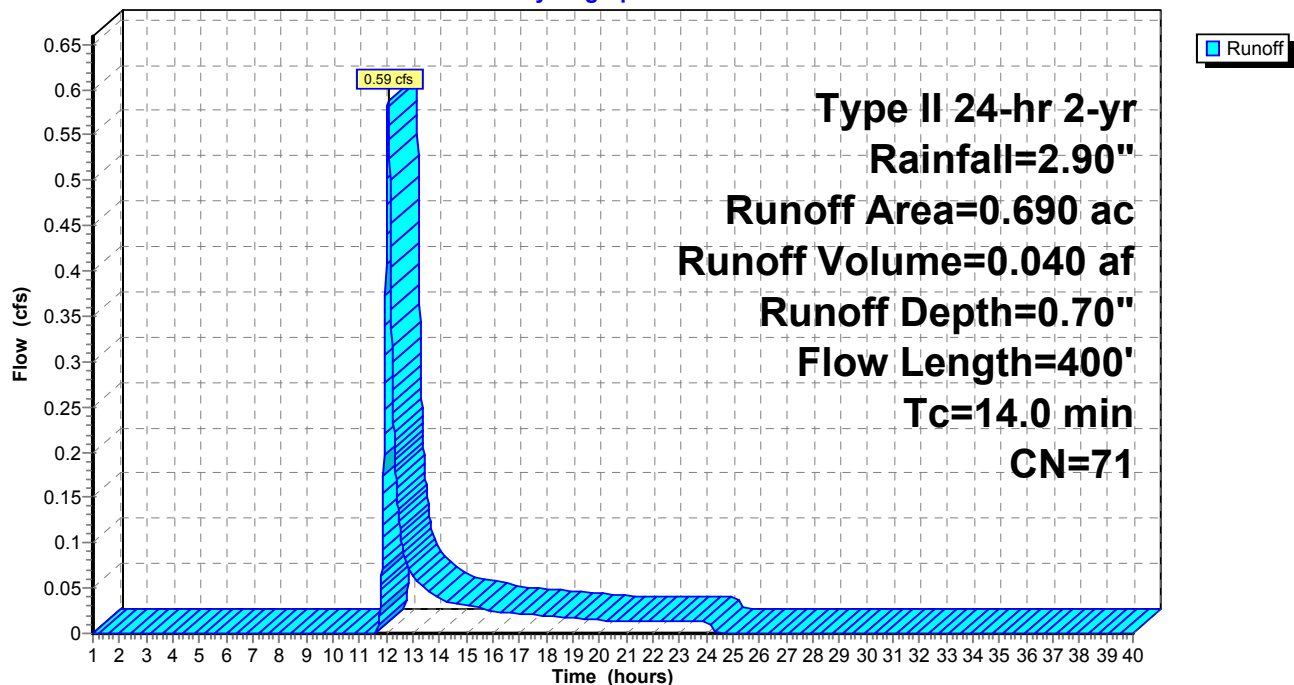
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
0.690	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	400	0.0200	0.5		Lag/CN Method,

Subcatchment W124: W124

Hydrograph



Subcatchment W125: W125

Runoff = 4.68 cfs @ 12.56 hrs, Volume= 0.725 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

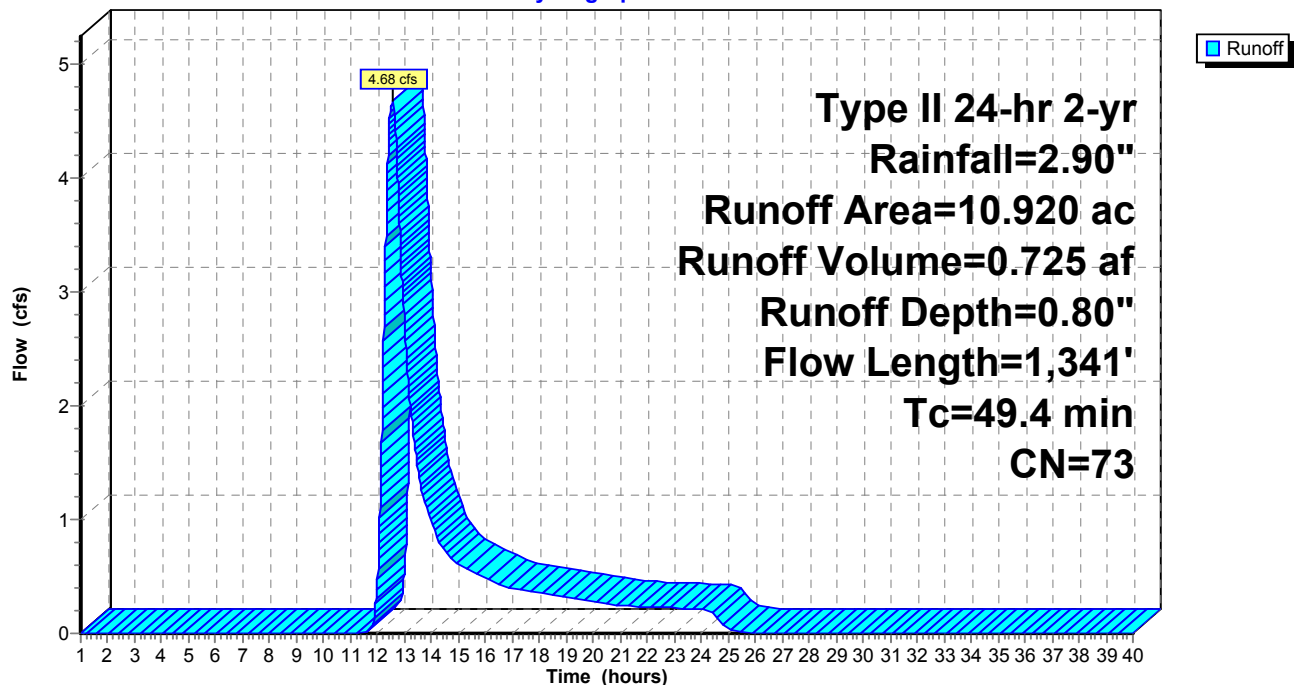
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
10.920	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.4	1,341	0.0100	0.5		Lag/CN Method,

Subcatchment W125: W125

Hydrograph



Subcatchment W126: W126

Runoff = 38.92 cfs @ 12.05 hrs, Volume= 2.416 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

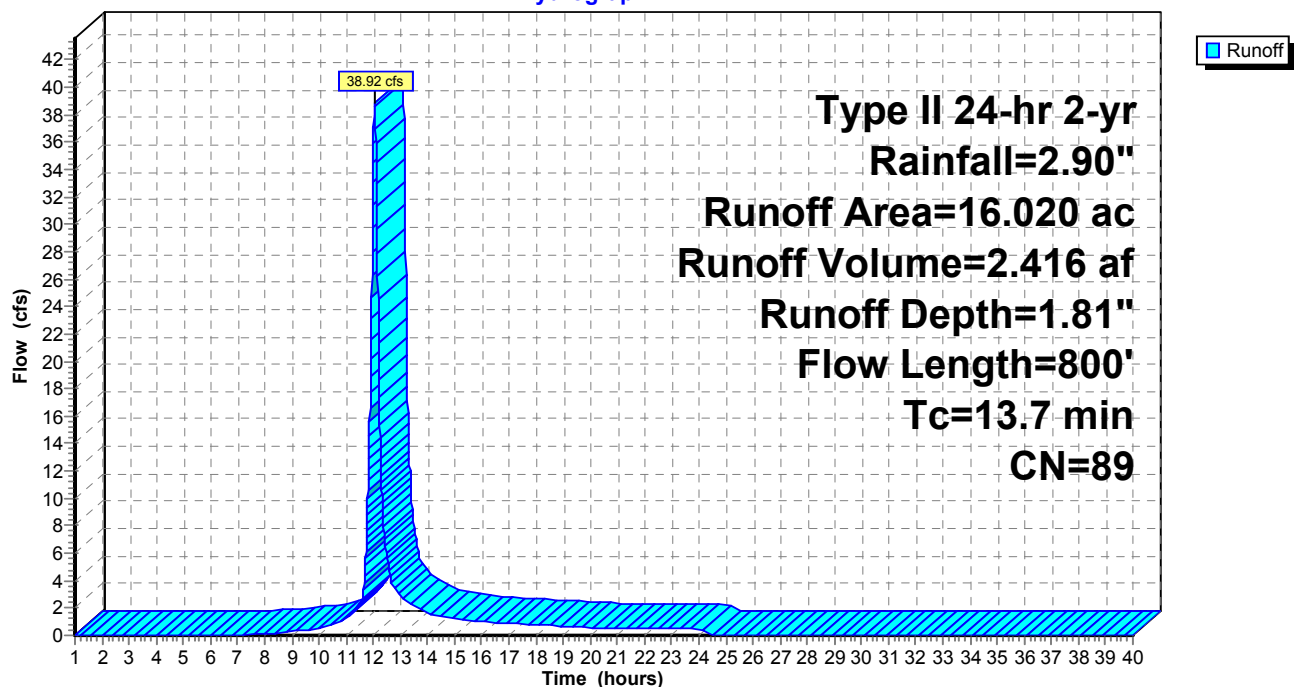
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
16.020	89	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	800	0.0200	1.0		Lag/CN Method,

Subcatchment W126: W126

Hydrograph



Subcatchment W128: W128

Runoff = 6.11 cfs @ 12.08 hrs, Volume= 0.404 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

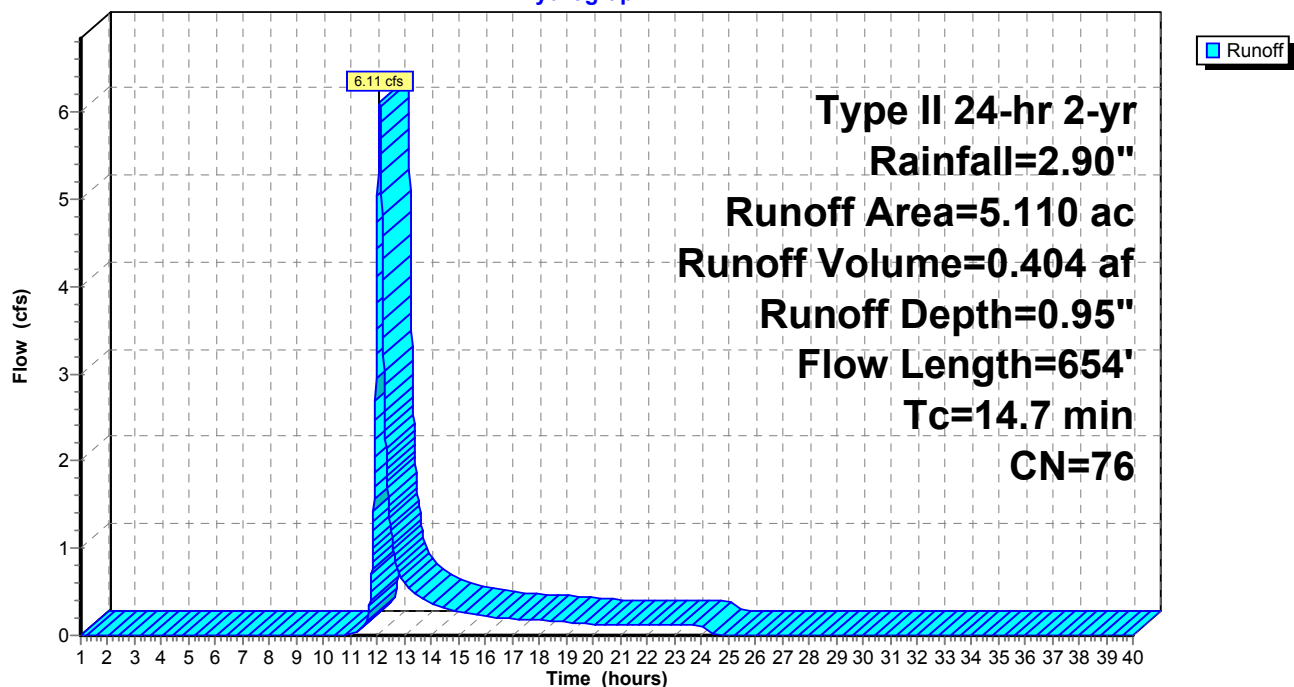
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.110	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	654	0.0300	0.7		Lag/CN Method,

Subcatchment W128: W128

Hydrograph



Subcatchment W129: W129

Runoff = 27.20 cfs @ 12.13 hrs, Volume= 2.011 af, Depth= 1.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

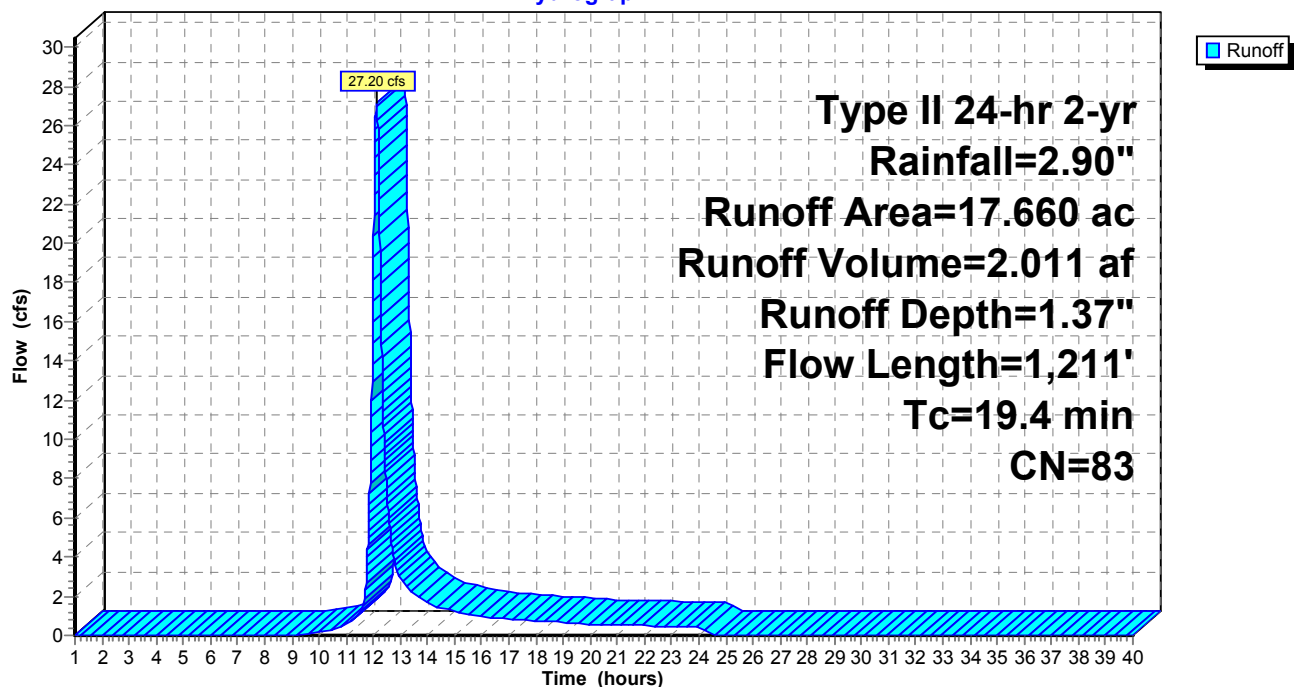
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
17.660	83	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.4	1,211	0.0300	1.0		Lag/CN Method,

Subcatchment W129: W129

Hydrograph



Subcatchment W13: W13

Runoff = 0.87 cfs @ 11.92 hrs, Volume= 0.034 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

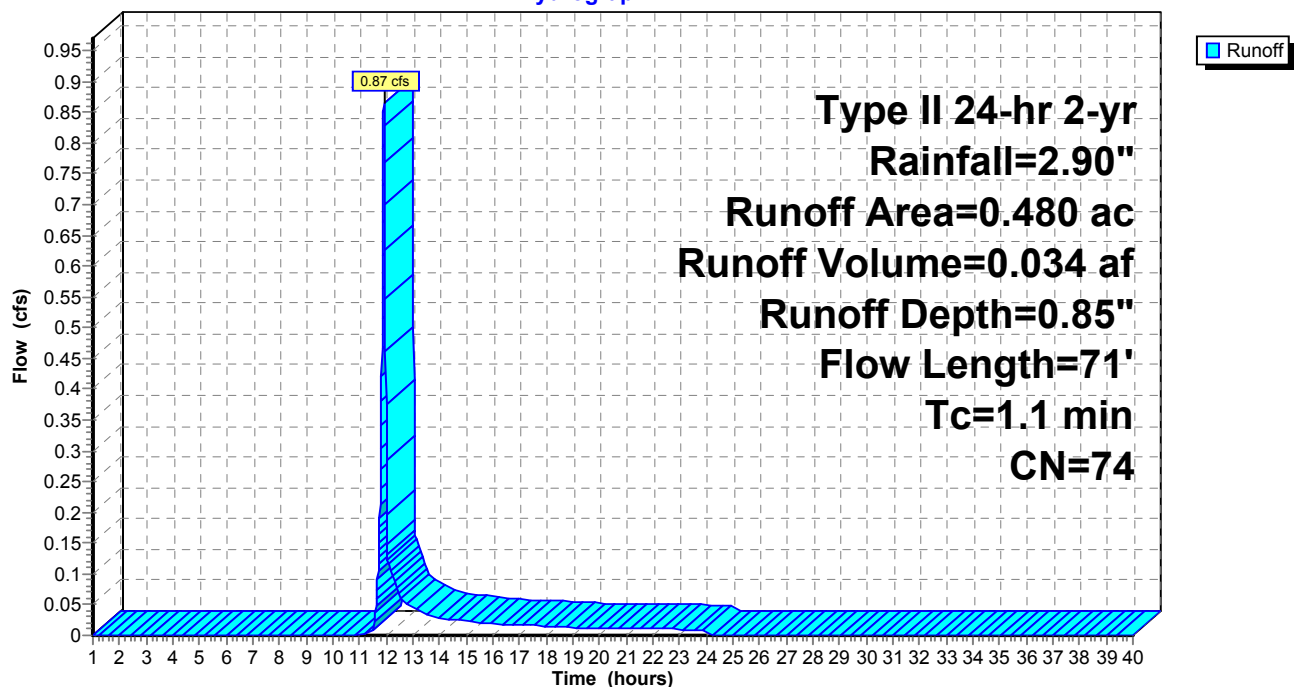
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
0.480	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	71	0.1700	1.1		Lag/CN Method,

Subcatchment W13: W13

Hydrograph



Subcatchment W134: W134

Runoff = 17.33 cfs @ 12.02 hrs, Volume= 0.958 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

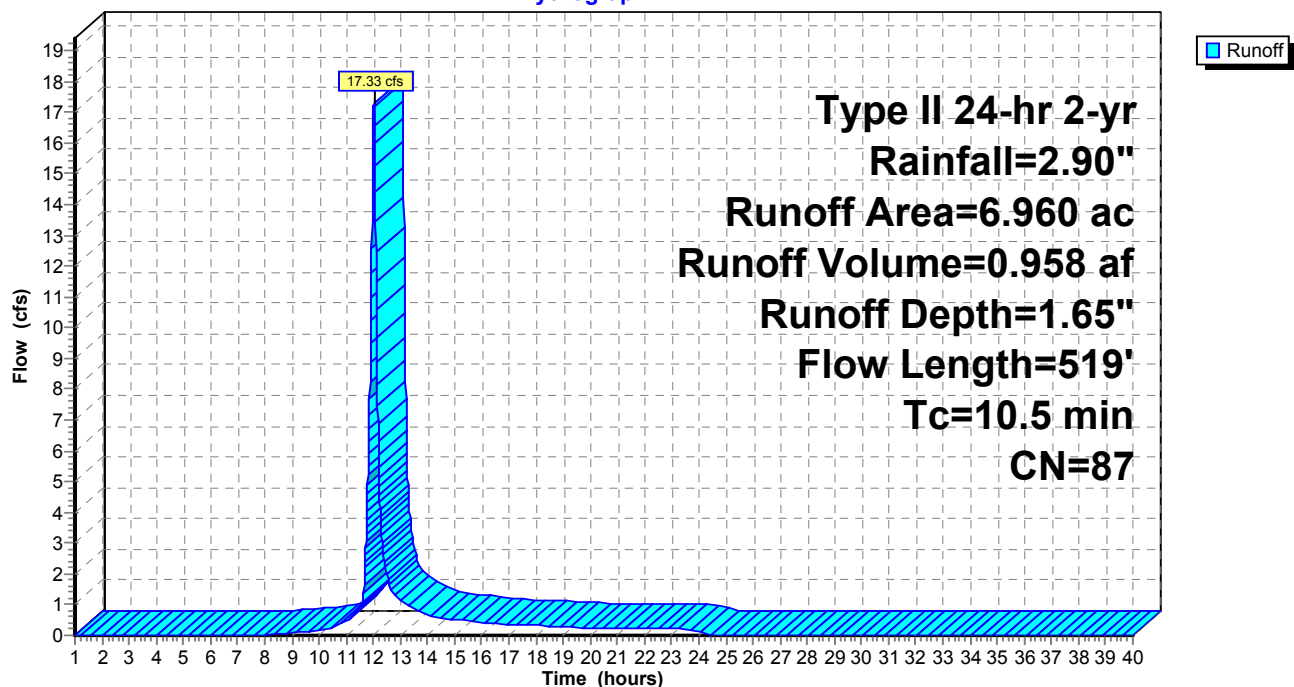
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
6.960	87	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	519	0.0200	0.8		Lag/CN Method,

Subcatchment W134: W134

Hydrograph



Subcatchment W135: W135

Runoff = 13.85 cfs @ 12.44 hrs, Volume= 1.838 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

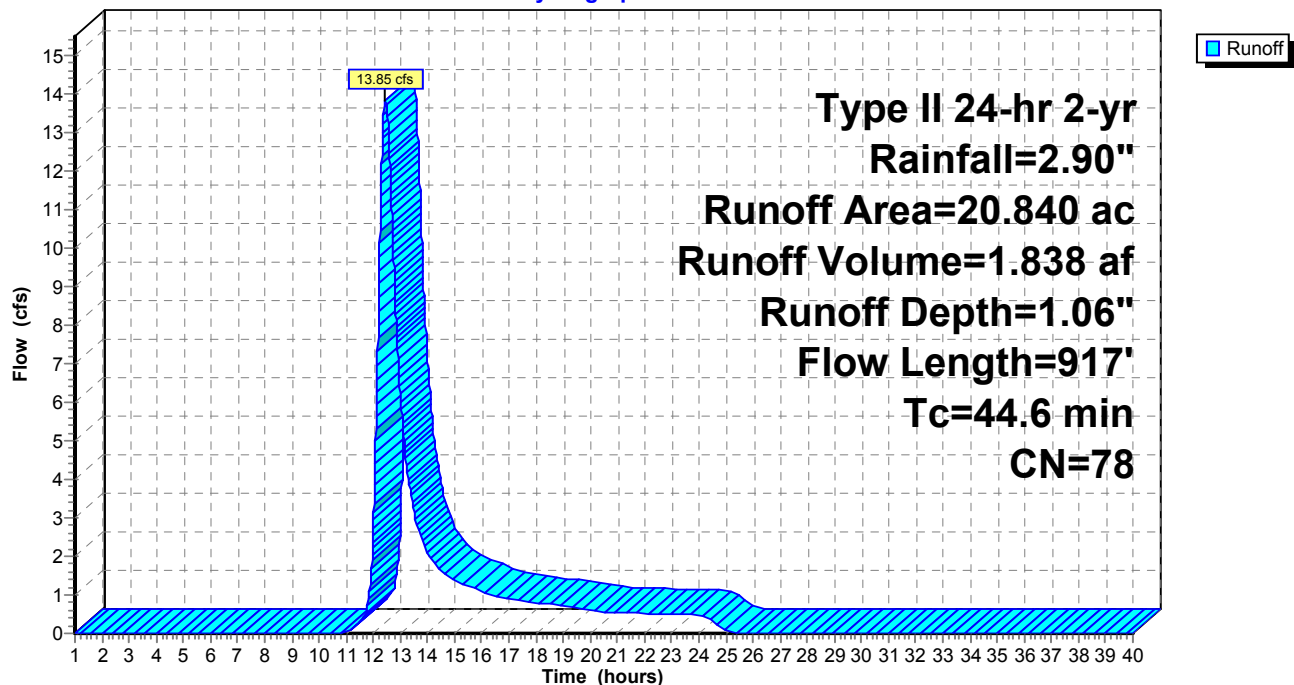
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
20.840	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.6	917	0.0050	0.3		Lag/CN Method,

Subcatchment W135: W135

Hydrograph



Subcatchment w136: w136

Runoff = 3.76 cfs @ 12.01 hrs, Volume= 0.195 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

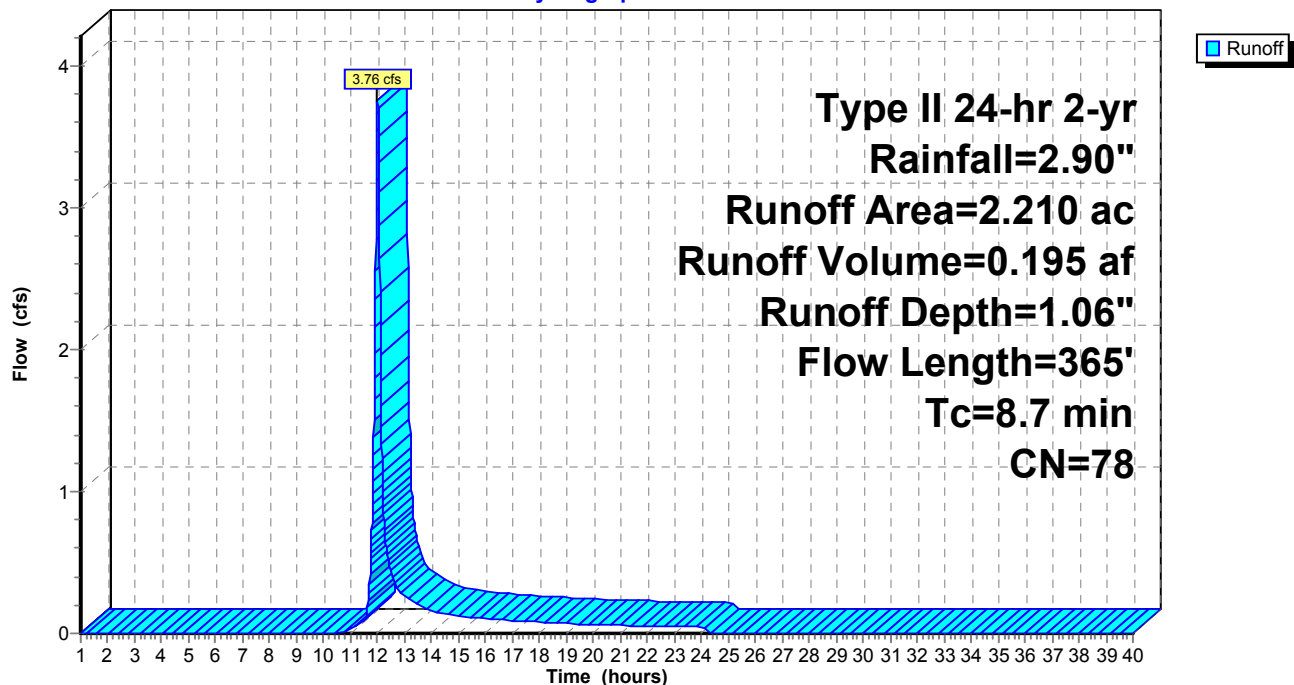
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
2.210	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	365	0.0300	0.7		Lag/CN Method,

Subcatchment w136: w136

Hydrograph



Subcatchment W137: W137

Runoff = 8.79 cfs @ 12.19 hrs, Volume= 0.781 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

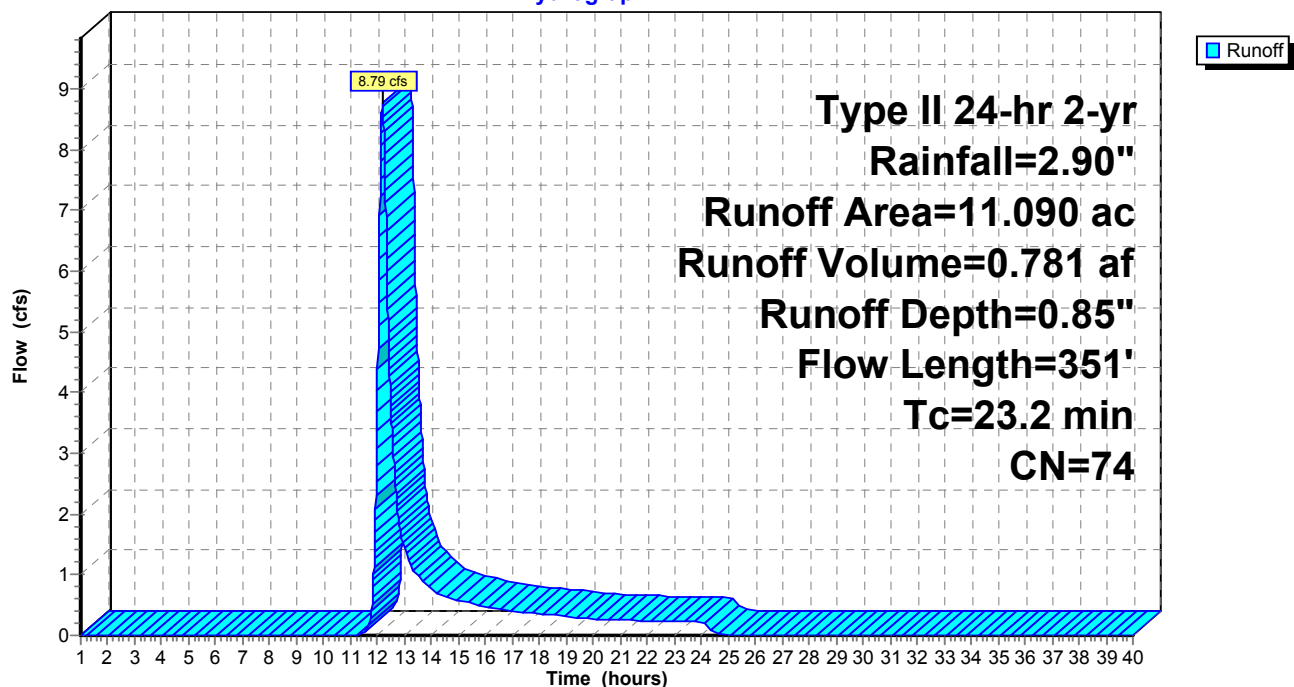
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
11.090	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	351	0.0050	0.3		Lag/CN Method,

Subcatchment W137: W137

Hydrograph



Subcatchment W138: W138

Runoff = 4.61 cfs @ 12.91 hrs, Volume= 0.960 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

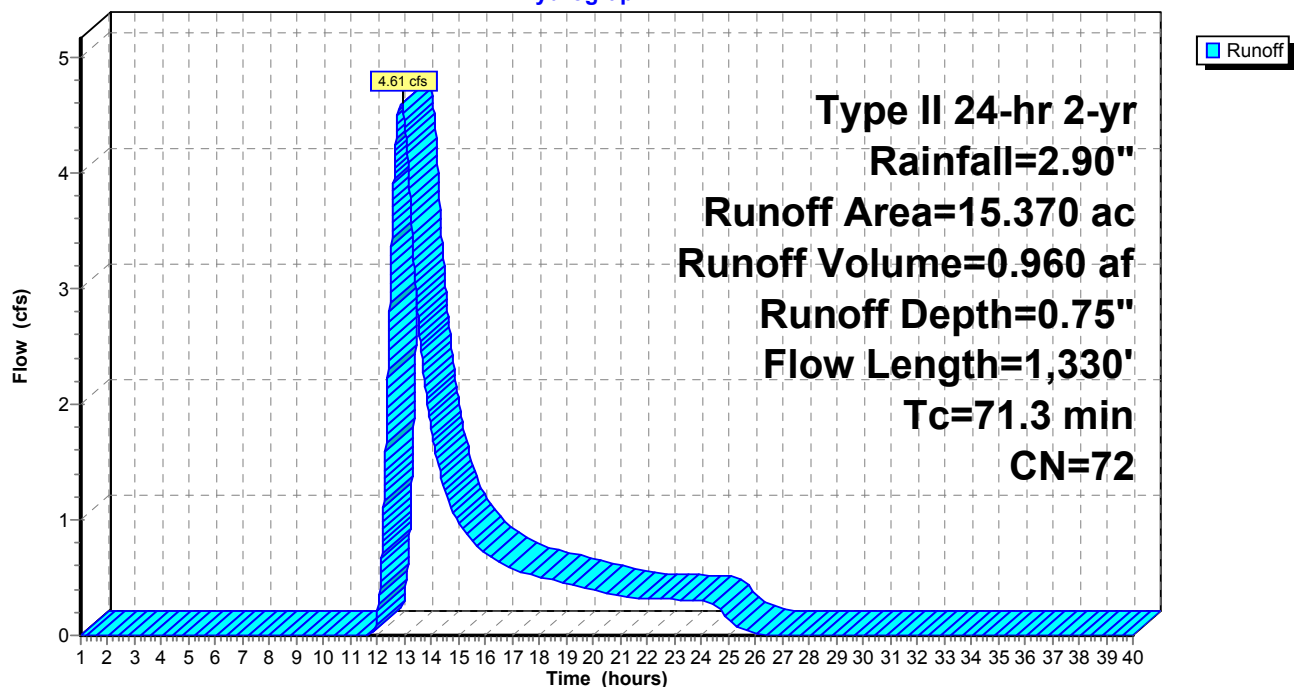
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
15.370	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.3	1,330	0.0050	0.3		Lag/CN Method,

Subcatchment W138: W138

Hydrograph



Subcatchment W139: W139

Runoff = 15.68 cfs @ 12.35 hrs, Volume= 1.788 af, Depth= 1.18"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

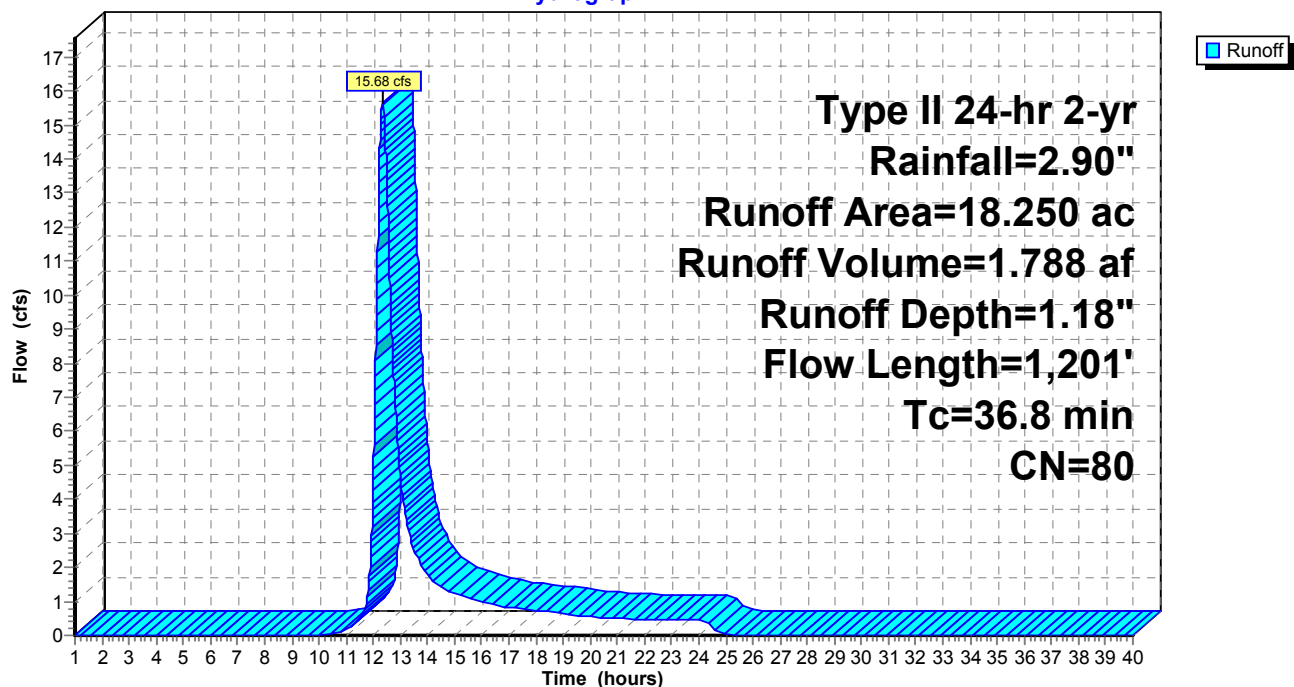
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.250	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	1,201	0.0100	0.5		Lag/CN Method,

Subcatchment W139: W139

Hydrograph



Subcatchment W14: W14

Runoff = 0.69 cfs @ 11.92 hrs, Volume= 0.027 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

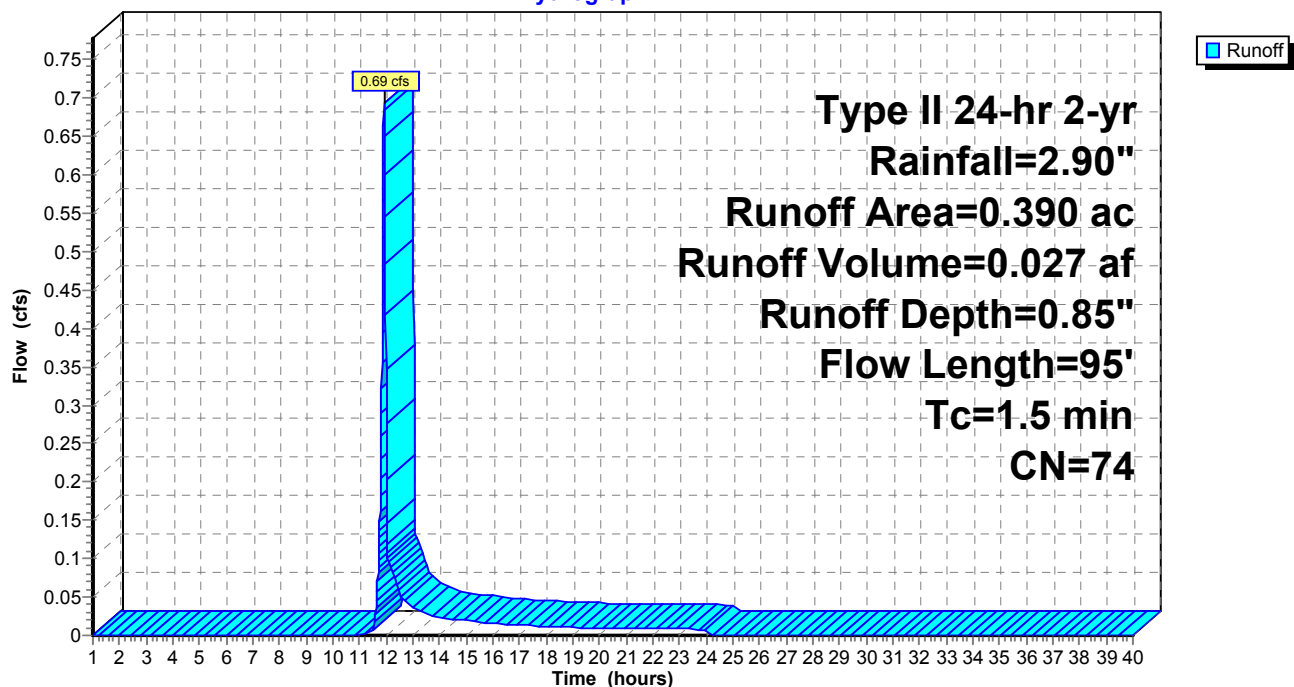
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
0.390	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	95	0.1500	1.1		Lag/CN Method,

Subcatchment W14: W14

Hydrograph



Subcatchment W140: W140

Runoff = 0.06 cfs @ 12.39 hrs, Volume= 0.027 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

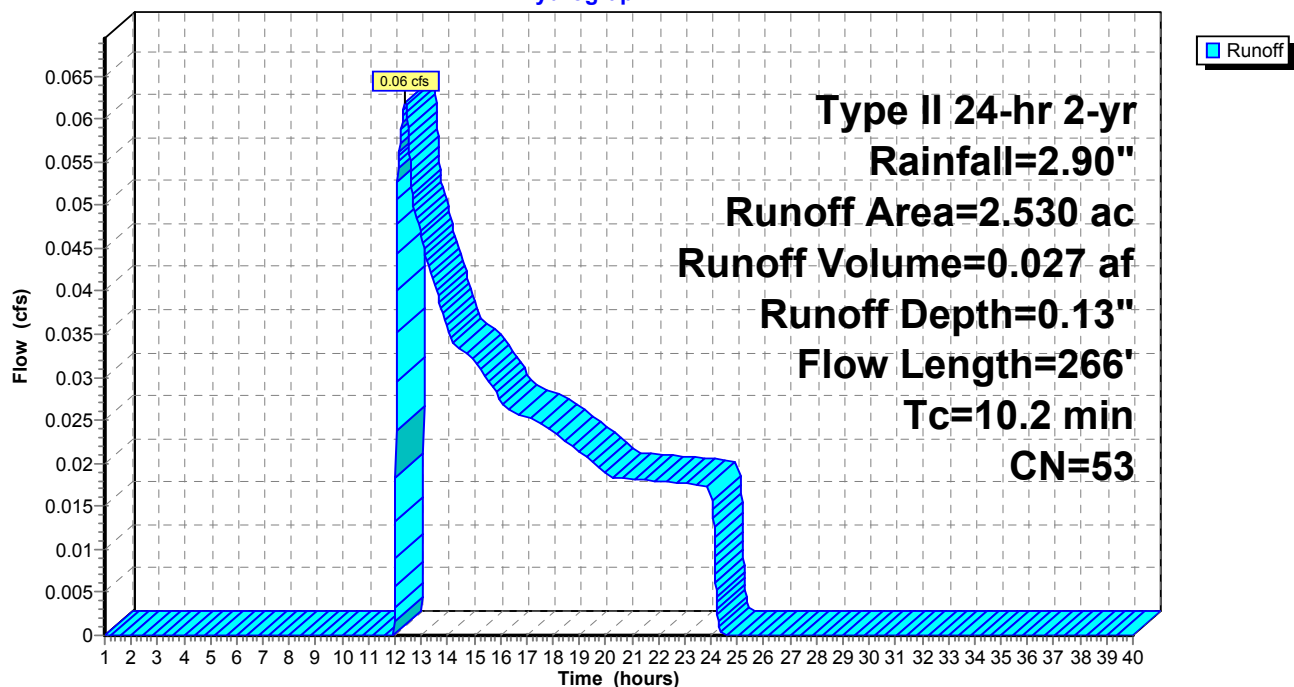
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
2.530	53	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	266	0.0500	0.4		Lag/CN Method,

Subcatchment W140: W140

Hydrograph



Subcatchment W141: W141

Runoff = 18.33 cfs @ 12.11 hrs, Volume= 1.391 af, Depth= 0.66"

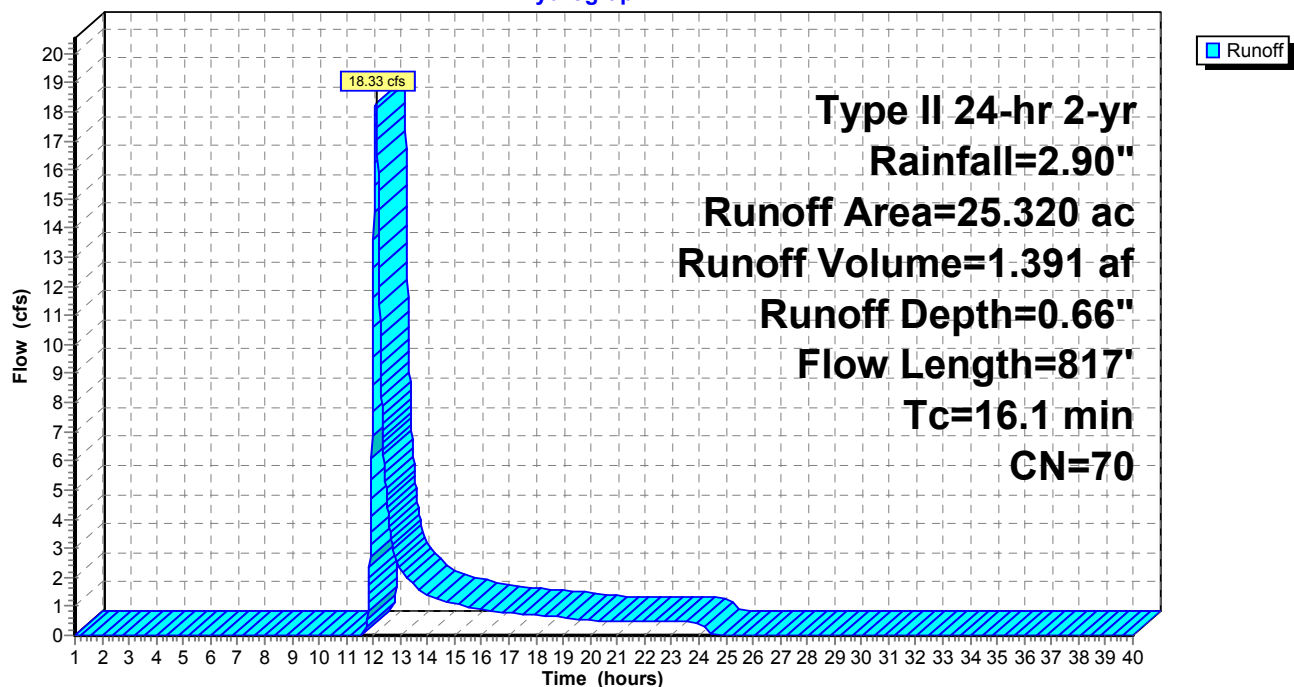
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description			
25.320	70				
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	817	0.0500	0.8		Lag/CN Method,

Subcatchment W141: W141

Hydrograph



Subcatchment W142: W142

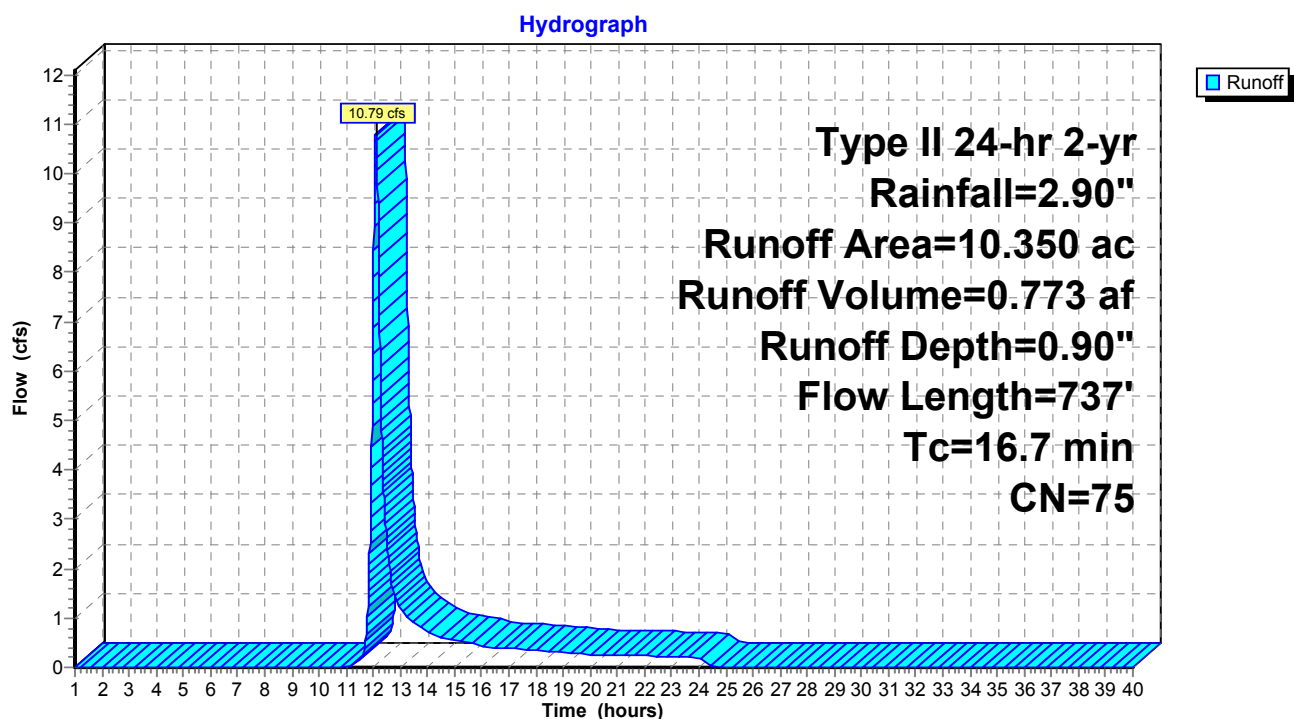
Runoff = 10.79 cfs @ 12.10 hrs, Volume= 0.773 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
10.350	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	737	0.0300	0.7		Lag/CN Method,

Subcatchment W142: W142

Subcatchment W143: W143

Runoff = 6.36 cfs @ 12.09 hrs, Volume= 0.431 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

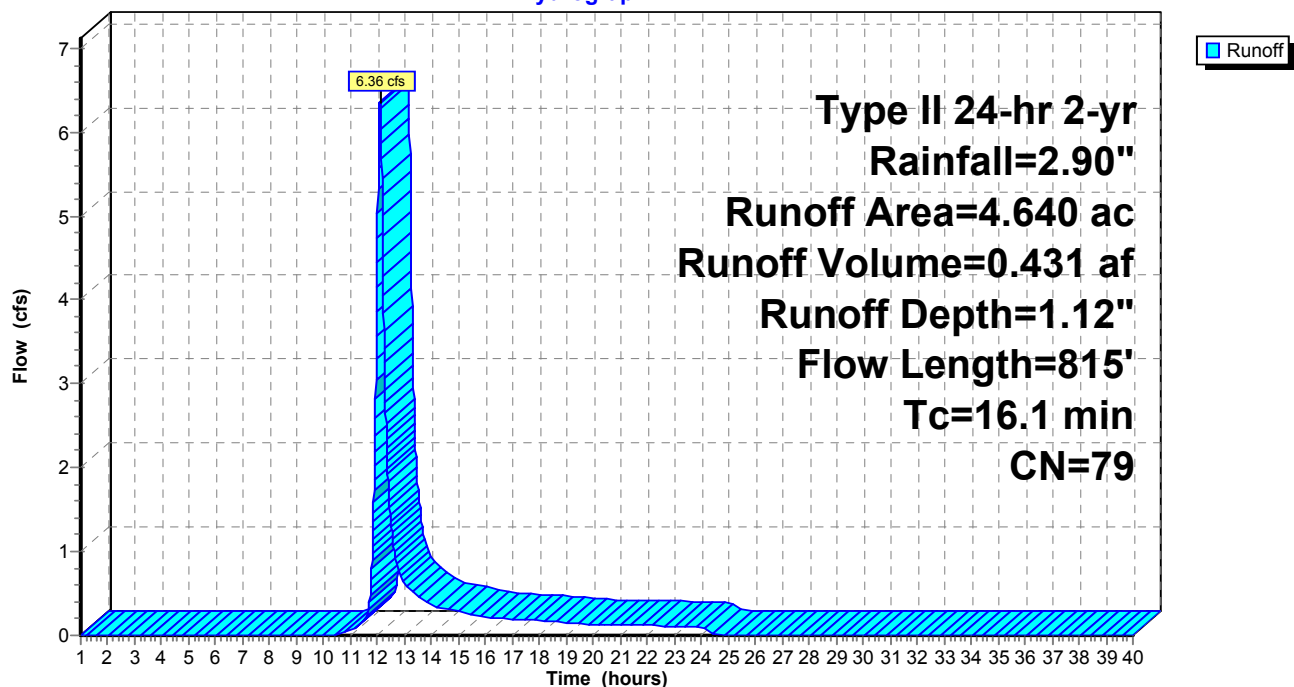
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
4.640	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	815	0.0300	0.8		Lag/CN Method,

Subcatchment W143: W143

Hydrograph



Subcatchment W144: W144

Runoff = 4.19 cfs @ 12.09 hrs, Volume= 0.297 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

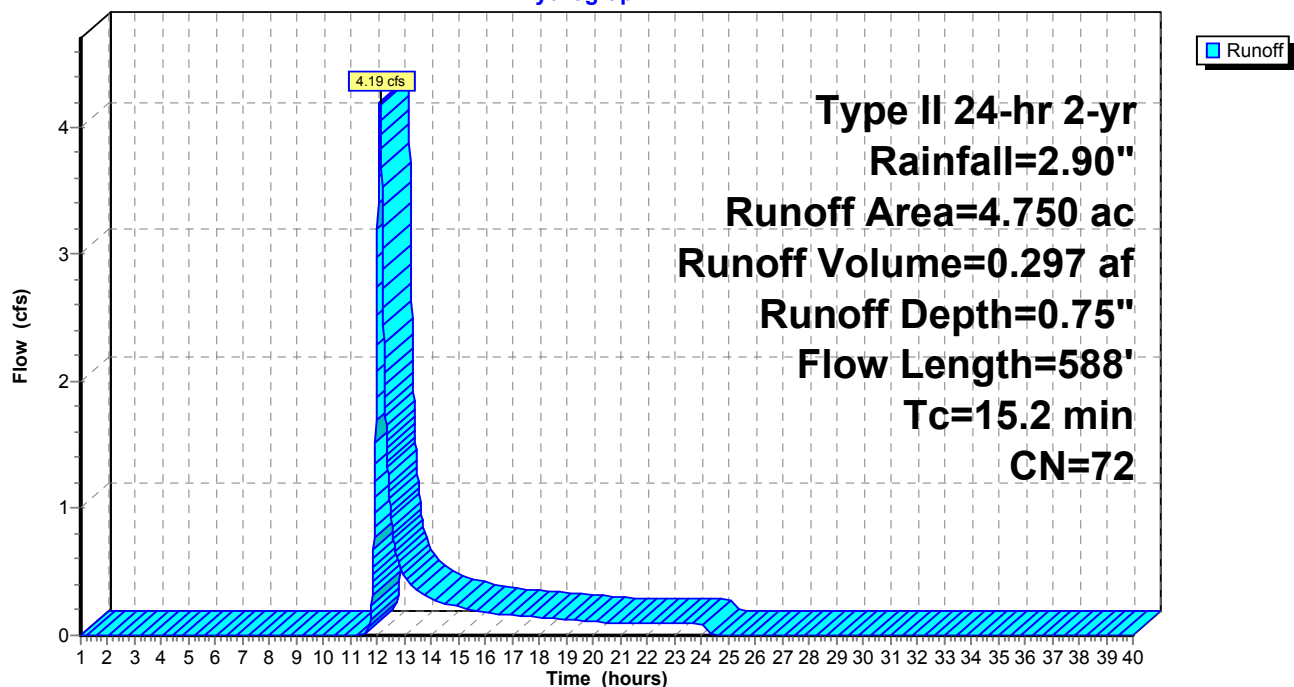
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
4.750	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	588	0.0300	0.6		Lag/CN Method,

Subcatchment W144: W144

Hydrograph



Subcatchment W145: W145

Runoff = 8.72 cfs @ 12.17 hrs, Volume= 0.791 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

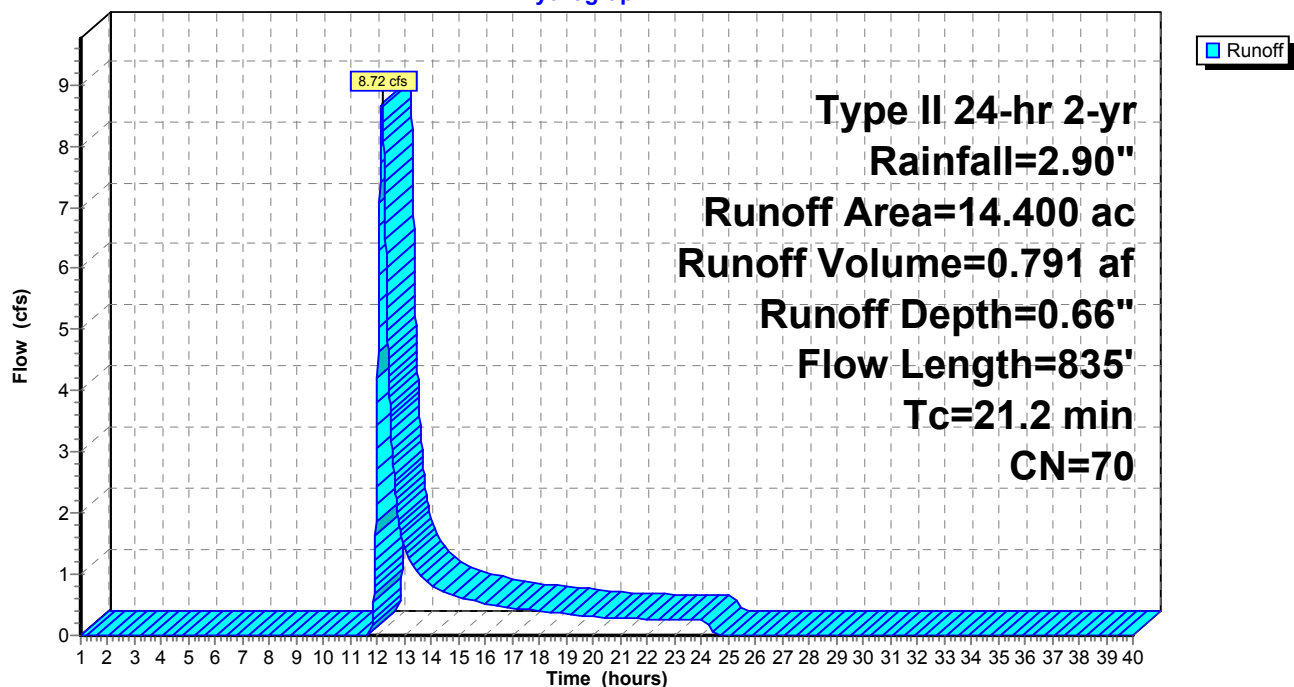
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
14.400	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	835	0.0300	0.7		Lag/CN Method,

Subcatchment W145: W145

Hydrograph



Subcatchment W146: W146

Runoff = 10.77 cfs @ 12.20 hrs, Volume= 1.155 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

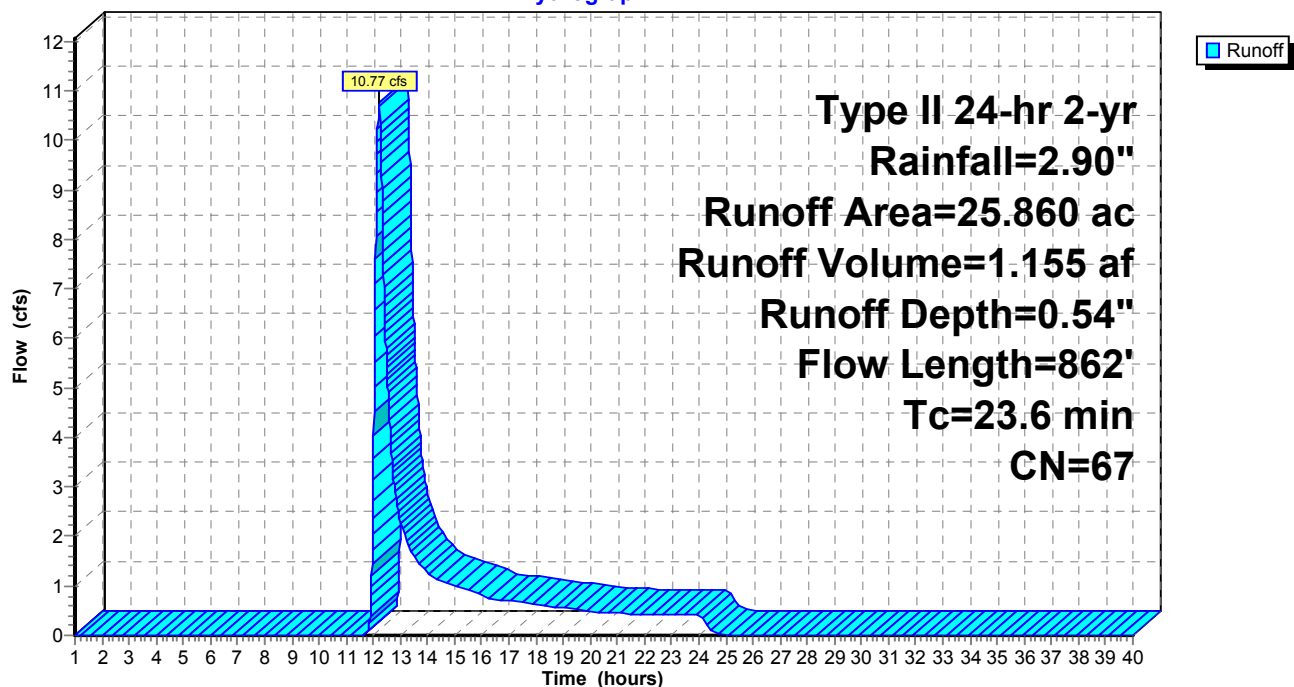
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
25.860	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.6	862	0.0300	0.6		Lag/CN Method,

Subcatchment W146: W146

Hydrograph



Subcatchment W150: W150

Runoff = 7.21 cfs @ 12.30 hrs, Volume= 1.178 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

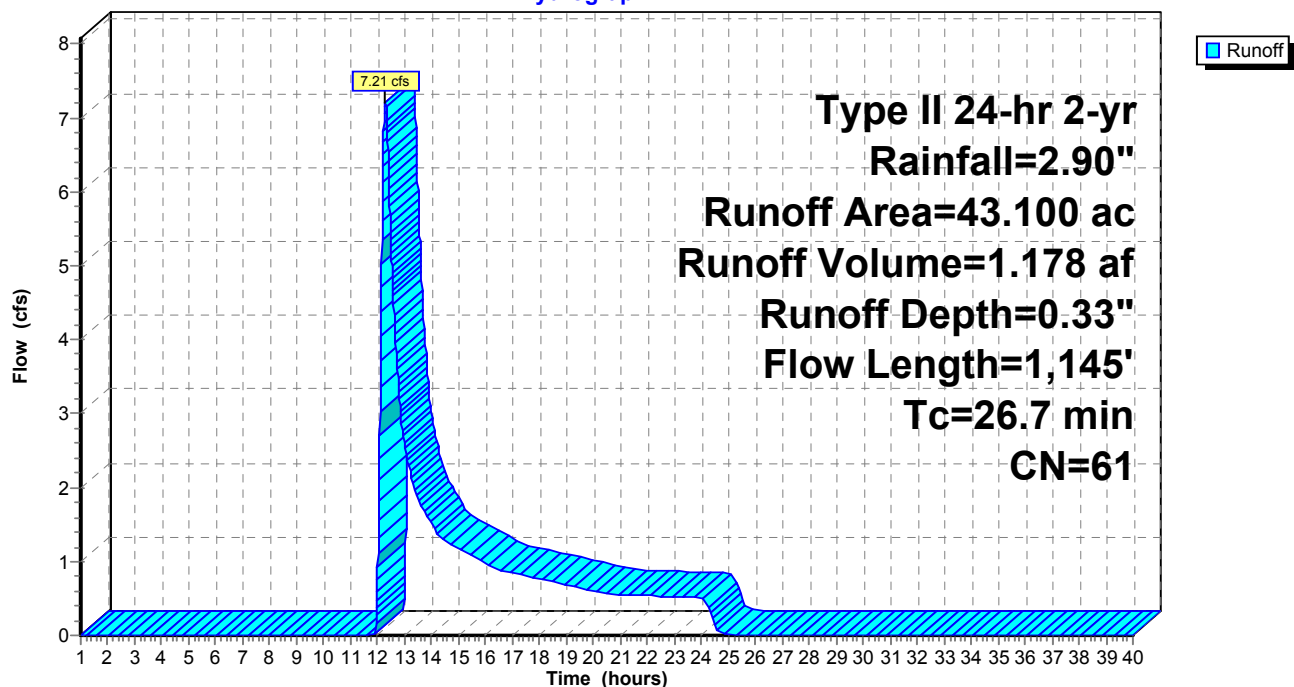
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
43.100	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,145	0.0500	0.7		Lag/CN Method,

Subcatchment W150: W150

Hydrograph



Subcatchment W2: W2

Runoff = 0.06 cfs @ 15.24 hrs, Volume= 0.052 af, Depth= 0.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

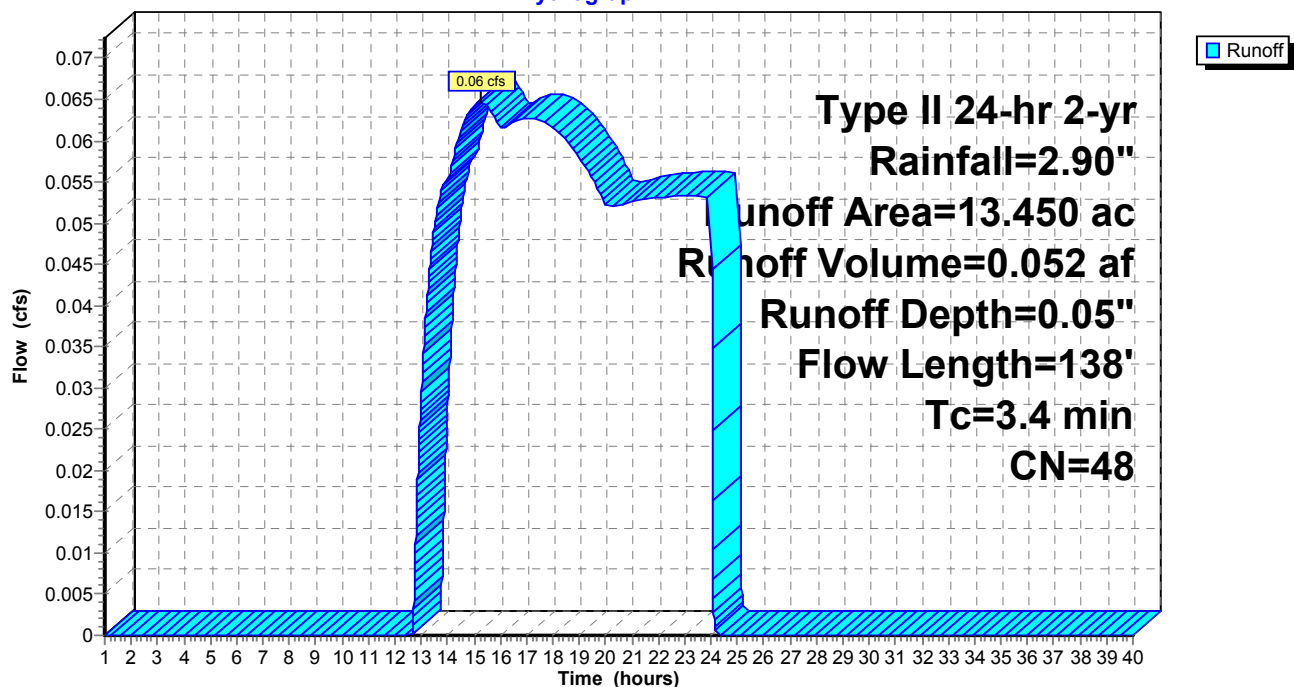
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
13.450	48	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	138	0.2000	0.7		Lag/CN Method,

Subcatchment W2: W2

Hydrograph



Subcatchment W30: W30

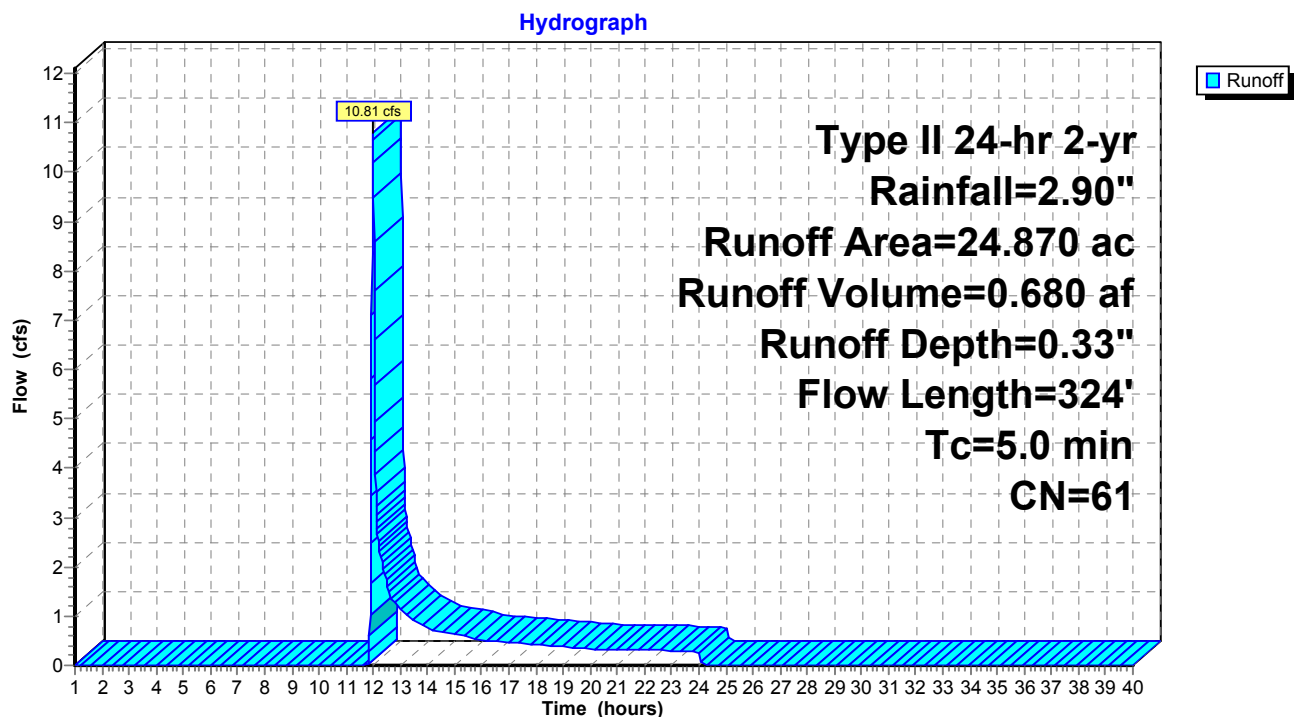
Runoff = 10.81 cfs @ 11.99 hrs, Volume= 0.680 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
24.870	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	324	0.1900	1.1		Lag/CN Method,

Subcatchment W30: W30

Subcatchment W31: W31

Runoff = 23.69 cfs @ 12.07 hrs, Volume= 1.828 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

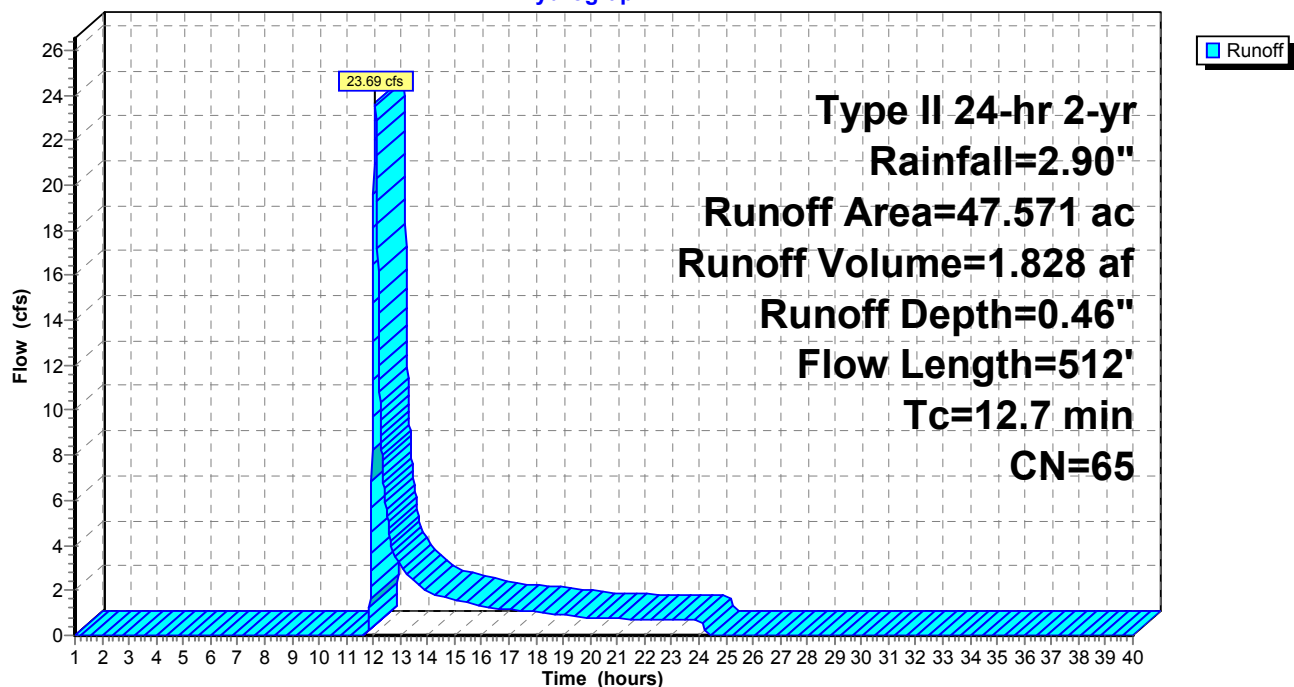
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
47.571	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	512	0.0500	0.7		Lag/CN Method,

Subcatchment W31: W31

Hydrograph



Subcatchment W32: W32

Runoff = 38.79 cfs @ 12.03 hrs, Volume= 2.508 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

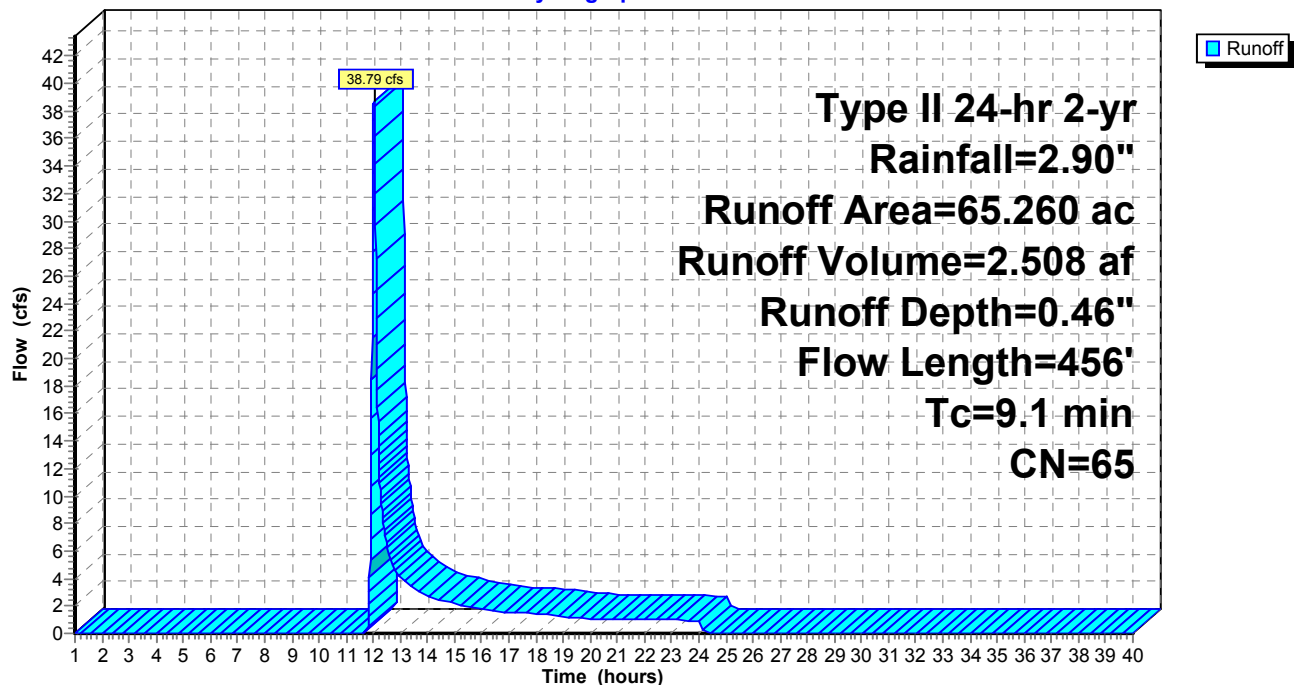
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
65.260	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	456	0.0800	0.8		Lag/CN Method,

Subcatchment W32: W32

Hydrograph



Subcatchment W33: W33

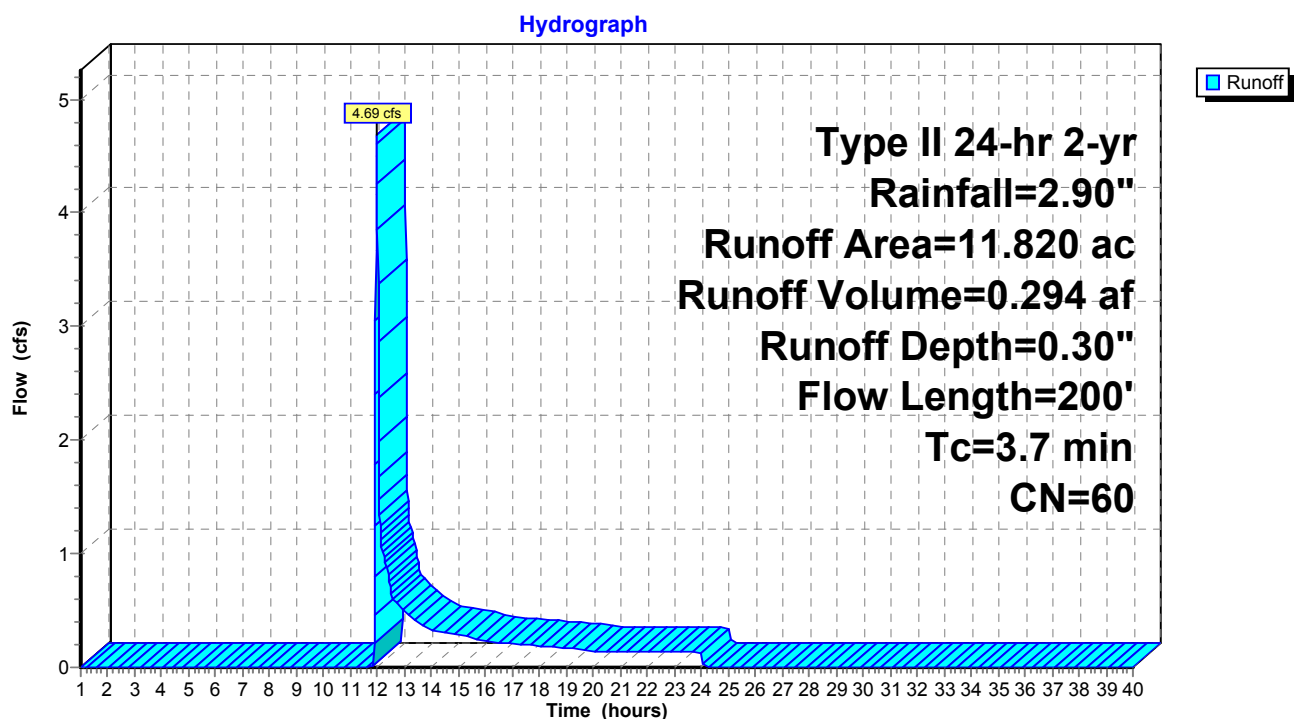
Runoff = 4.69 cfs @ 11.98 hrs, Volume= 0.294 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
11.820	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	200	0.1700	0.9		Lag/CN Method,

Subcatchment W33: W33

Subcatchment W34: W34

Runoff = 3.22 cfs @ 12.04 hrs, Volume= 0.295 af, Depth= 0.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

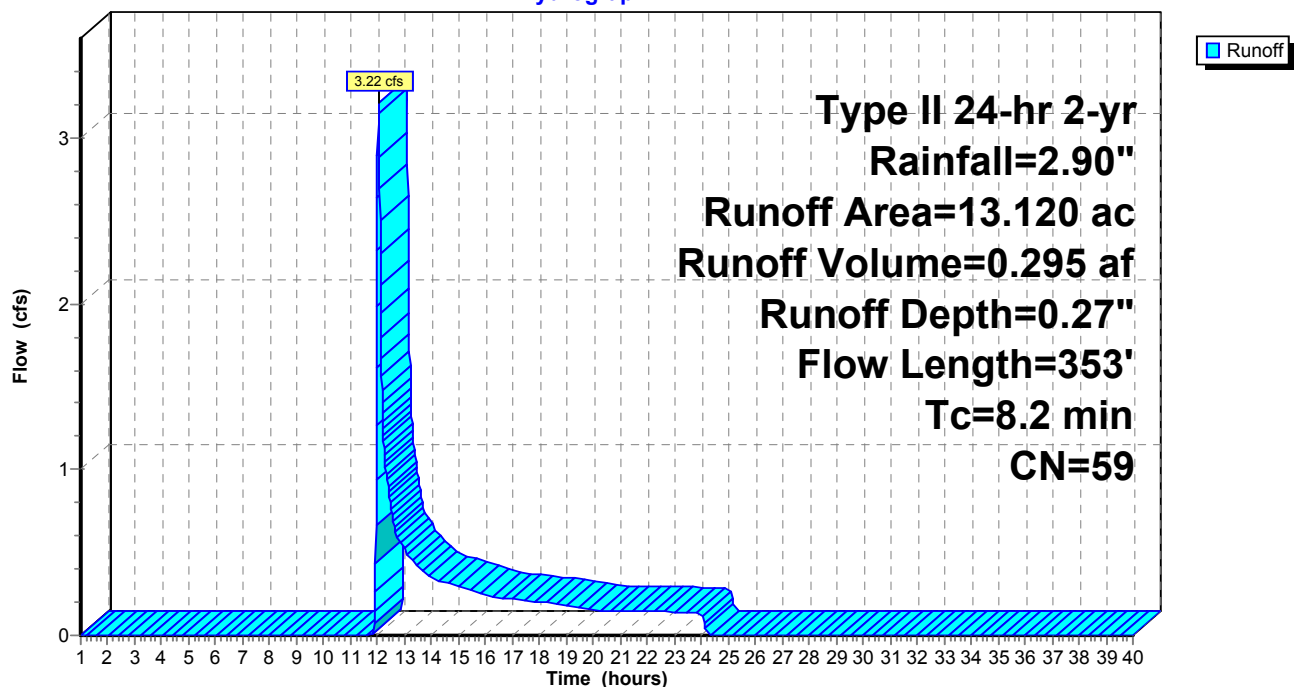
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
13.120	59	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	353	0.0900	0.7		Lag/CN Method,

Subcatchment W34: W34

Hydrograph



Subcatchment W35: W35

Runoff = 2.02 cfs @ 11.98 hrs, Volume= 0.129 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

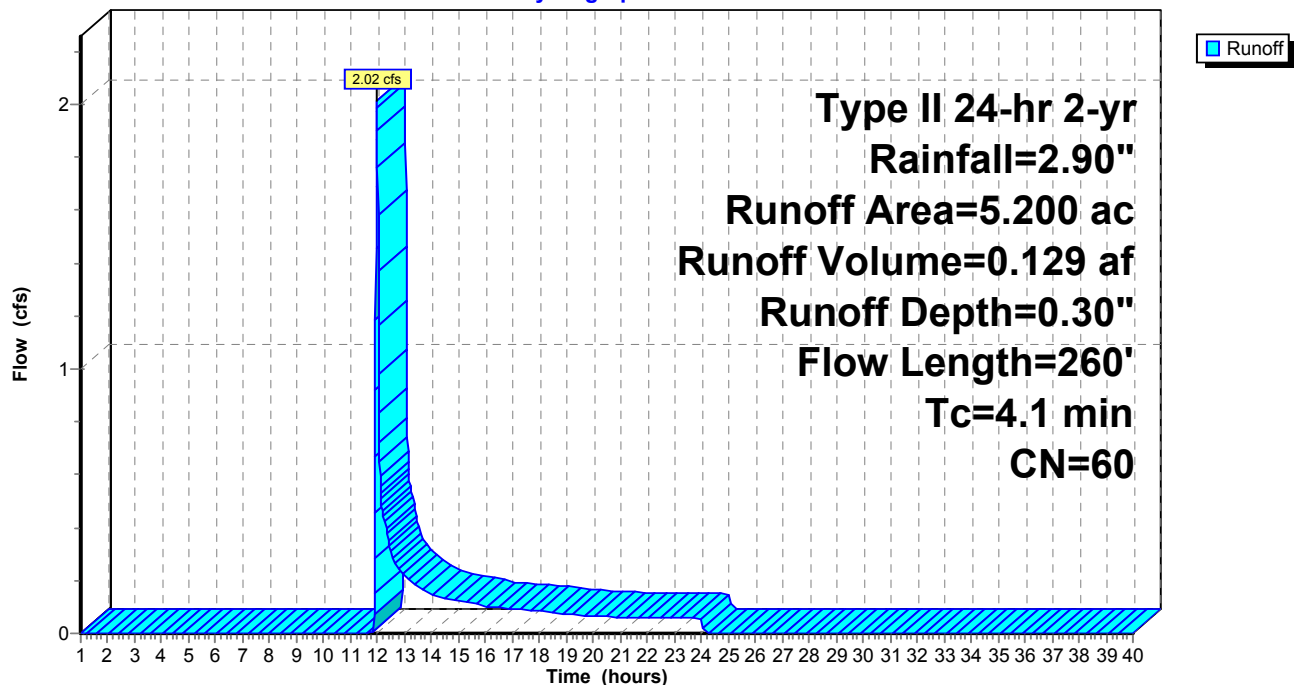
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.200	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	260	0.2100	1.1		Lag/CN Method,

Subcatchment W35: W35

Hydrograph



Subcatchment W36: W36

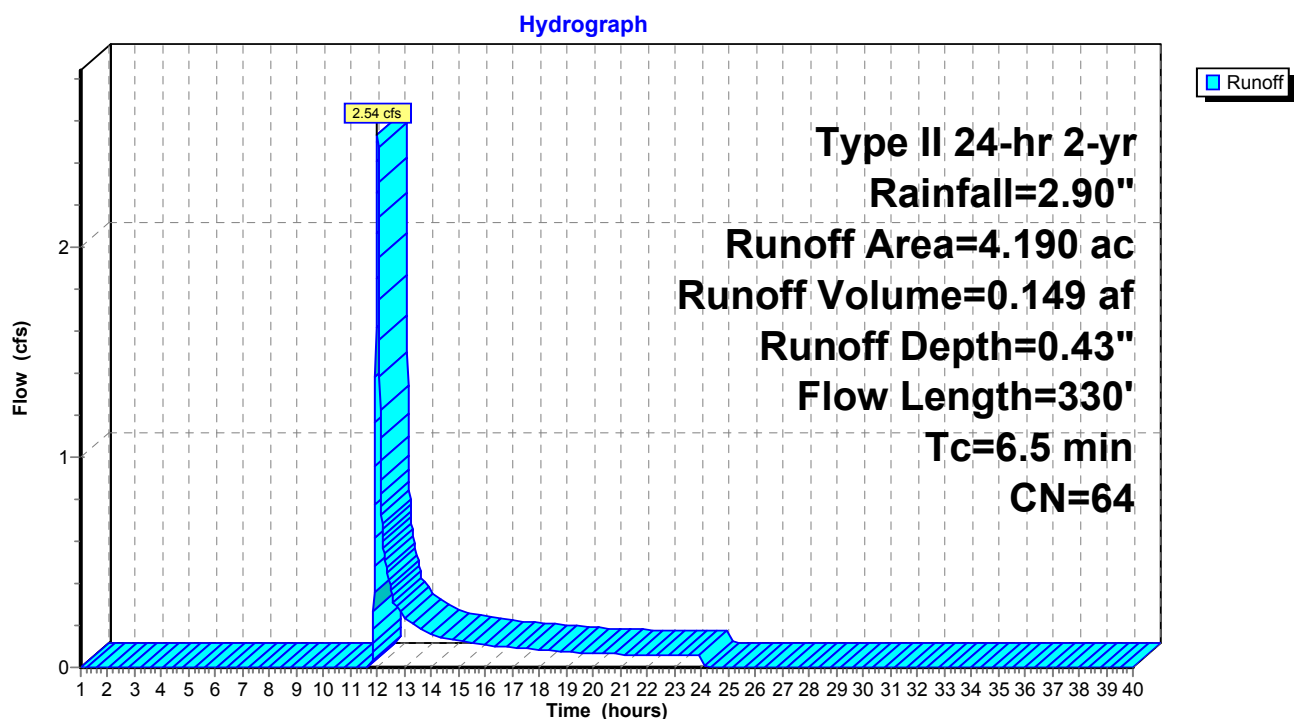
Runoff = 2.54 cfs @ 12.00 hrs, Volume= 0.149 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
4.190	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	330	0.1000	0.9		Lag/CN Method,

Subcatchment W36: W36

Subcatchment W37: W37

Runoff = 0.79 cfs @ 12.05 hrs, Volume= 0.085 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

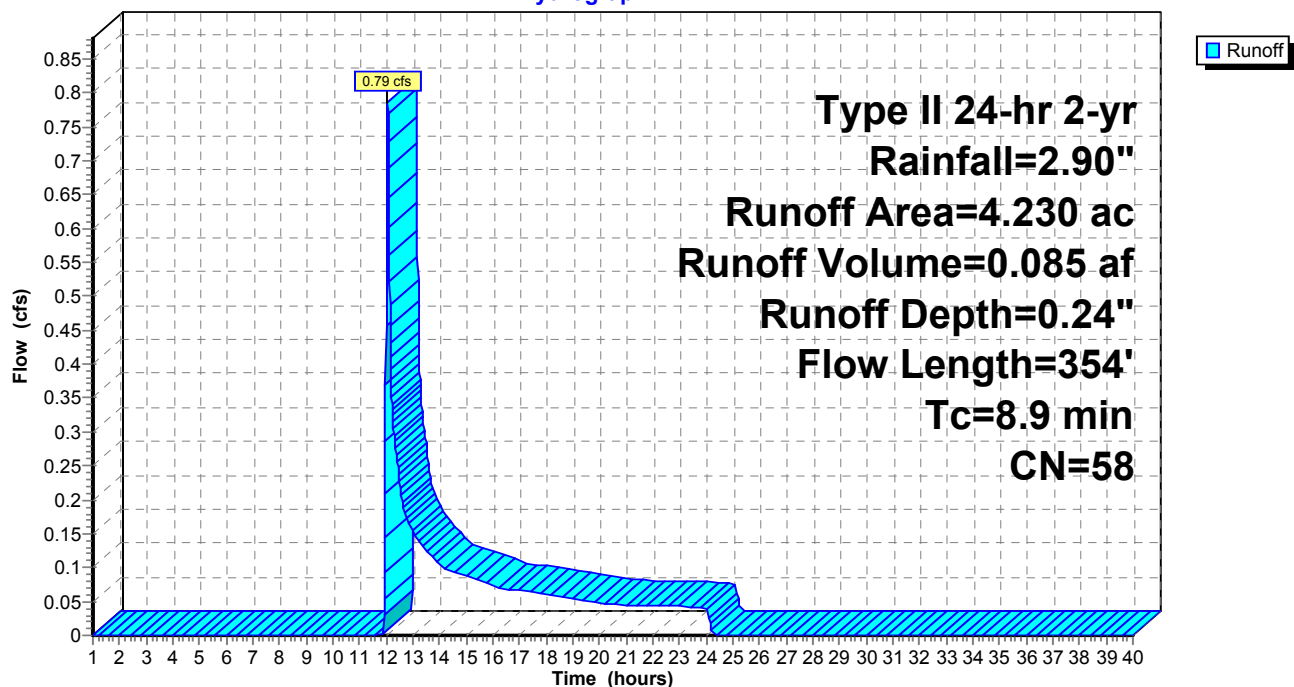
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
4.230	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	354	0.0800	0.7		Lag/CN Method,

Subcatchment W37: W37

Hydrograph



Subcatchment W38: W38

Runoff = 13.52 cfs @ 11.97 hrs, Volume= 0.617 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

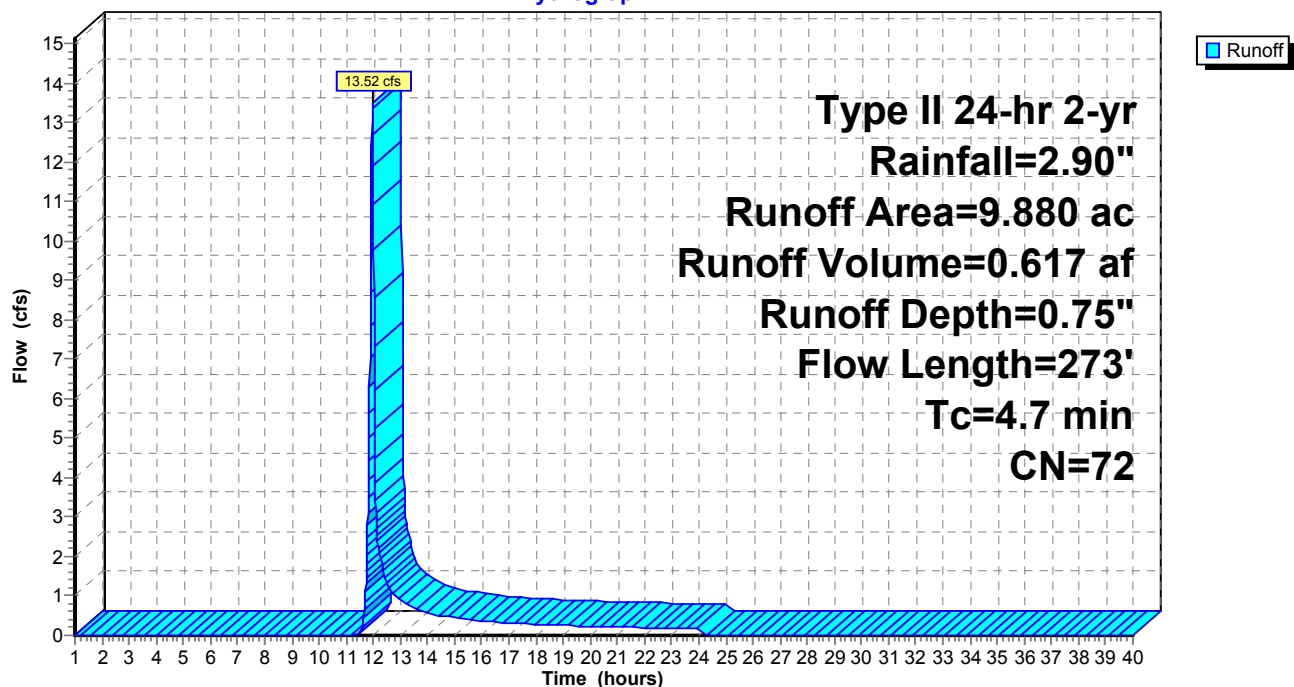
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.880	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	273	0.0900	1.0		Lag/CN Method,

Subcatchment W38: W38

Hydrograph



Subcatchment W39: W39

Runoff = 4.30 cfs @ 12.04 hrs, Volume= 0.348 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

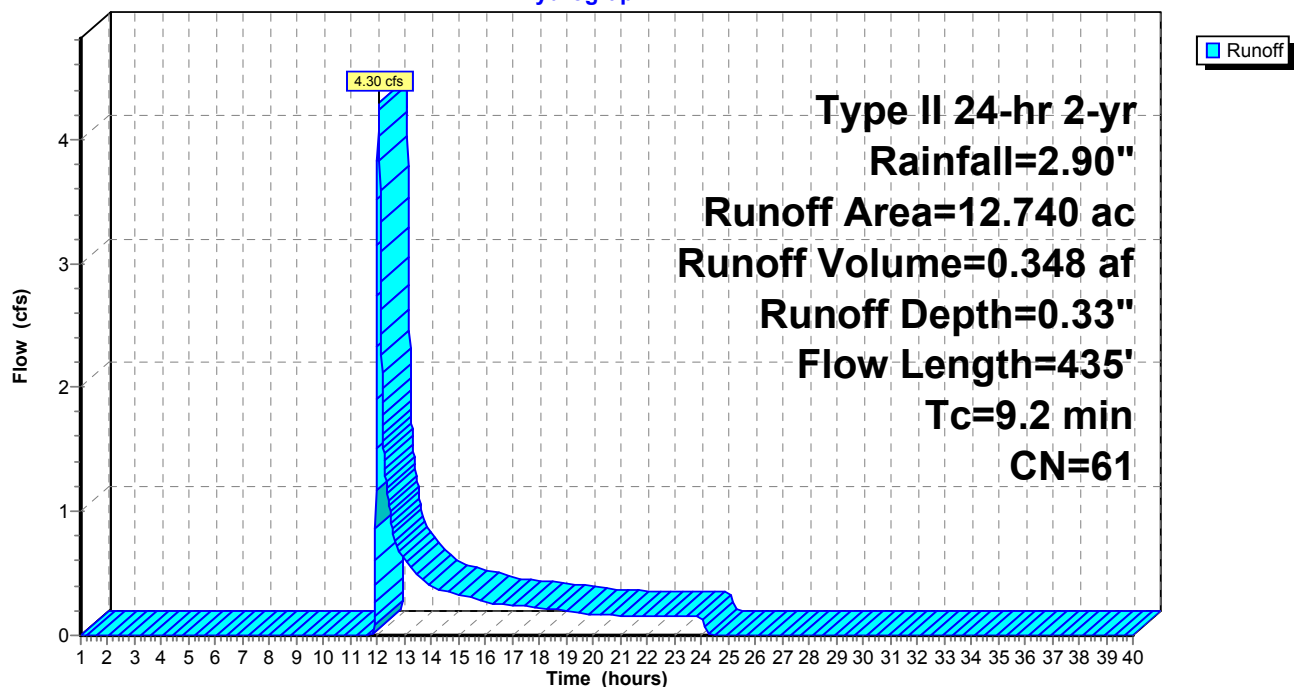
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
12.740	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	435	0.0900	0.8		Lag/CN Method,

Subcatchment W39: W39

Hydrograph



Subcatchment W40: W40

Runoff = 40.10 cfs @ 11.95 hrs, Volume= 1.727 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

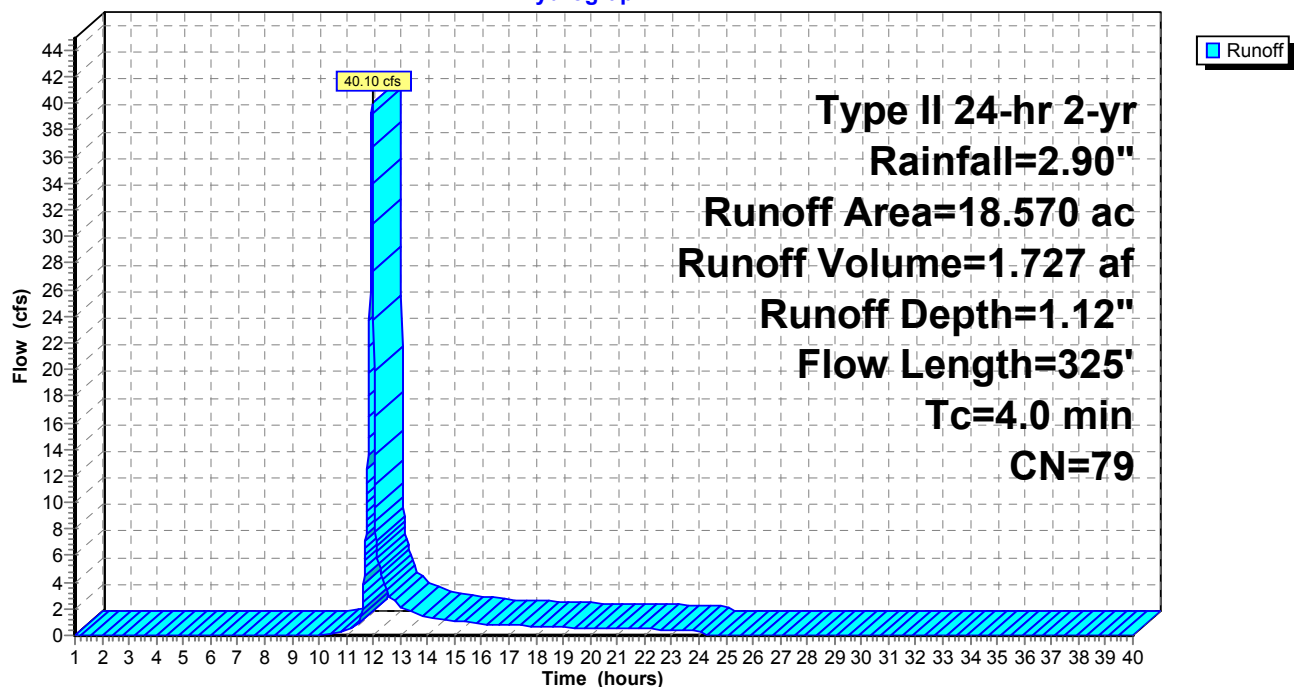
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.570	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	325	0.1100	1.3		Lag/CN Method,

Subcatchment W40: W40

Hydrograph



Subcatchment W41: W41

Runoff = 7.35 cfs @ 12.00 hrs, Volume= 0.373 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

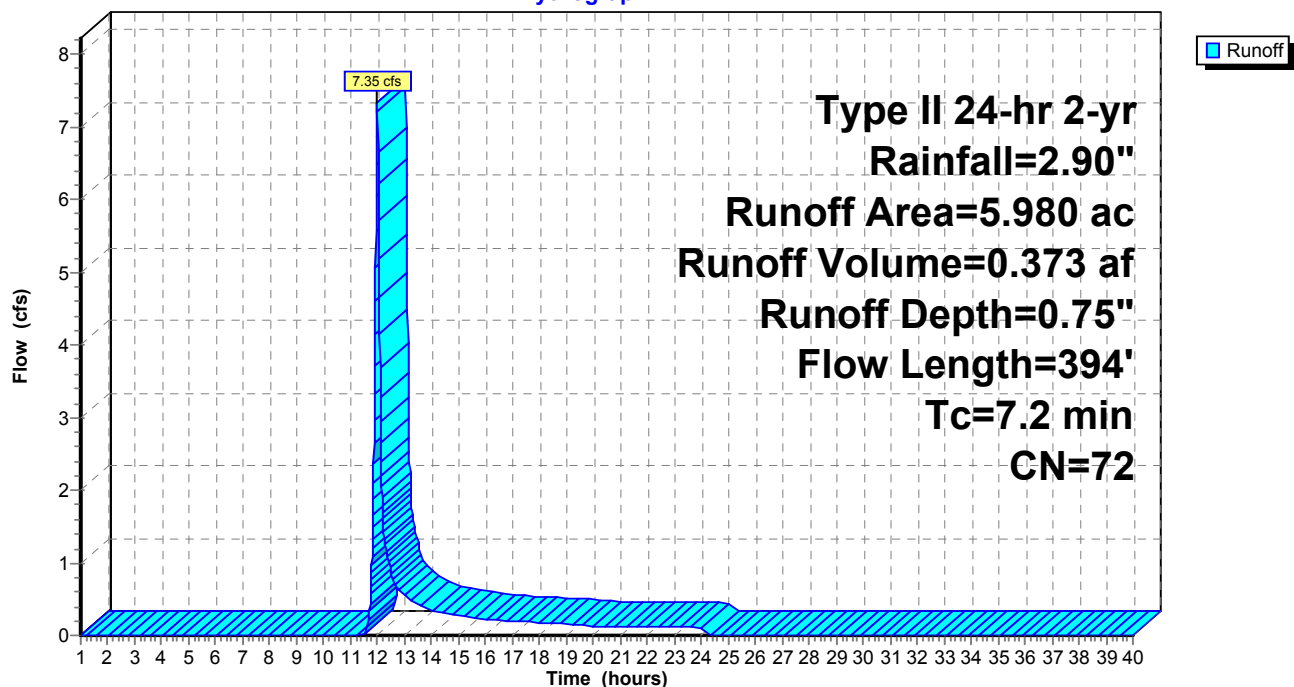
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.980	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	394	0.0700	0.9		Lag/CN Method,

Subcatchment W41: W41

Hydrograph



Subcatchment W42: W42

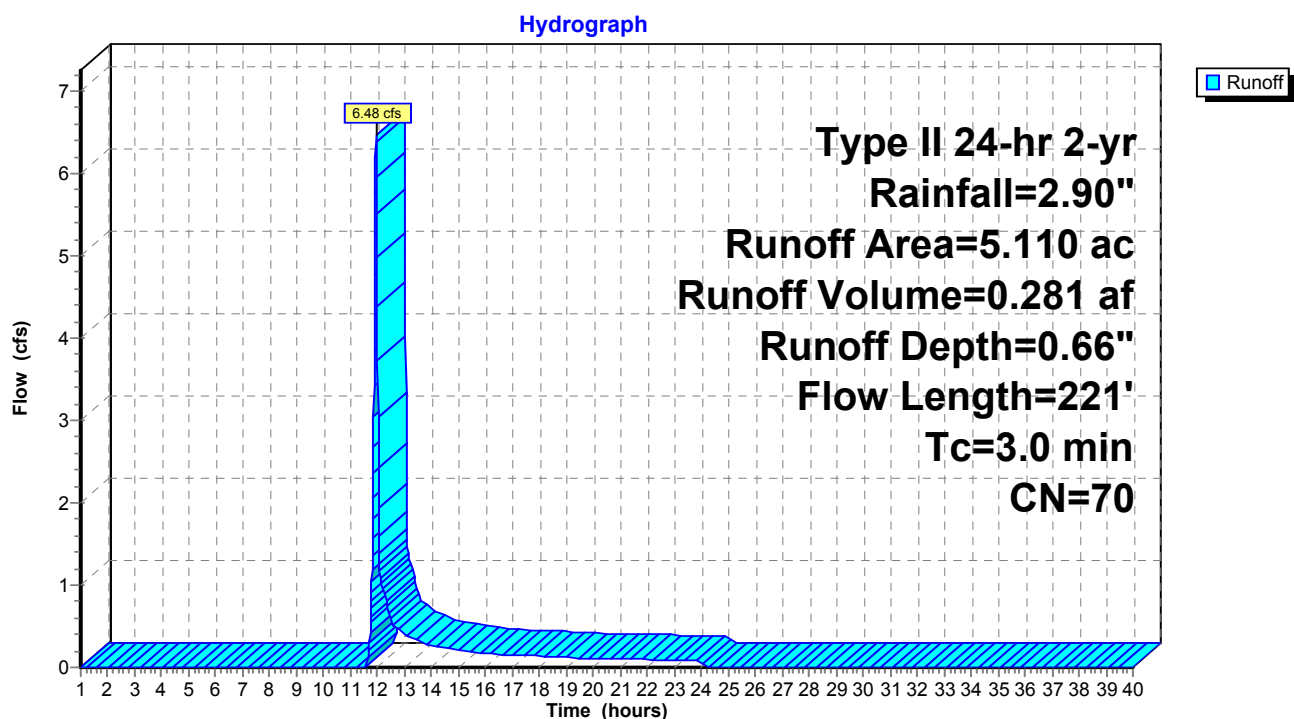
Runoff = 6.48 cfs @ 11.95 hrs, Volume= 0.281 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.110	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	221	0.1800	1.2		Lag/CN Method,

Subcatchment W42: W42

Subcatchment W43: W43

Runoff = 3.97 cfs @ 12.05 hrs, Volume= 0.280 af, Depth= 0.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

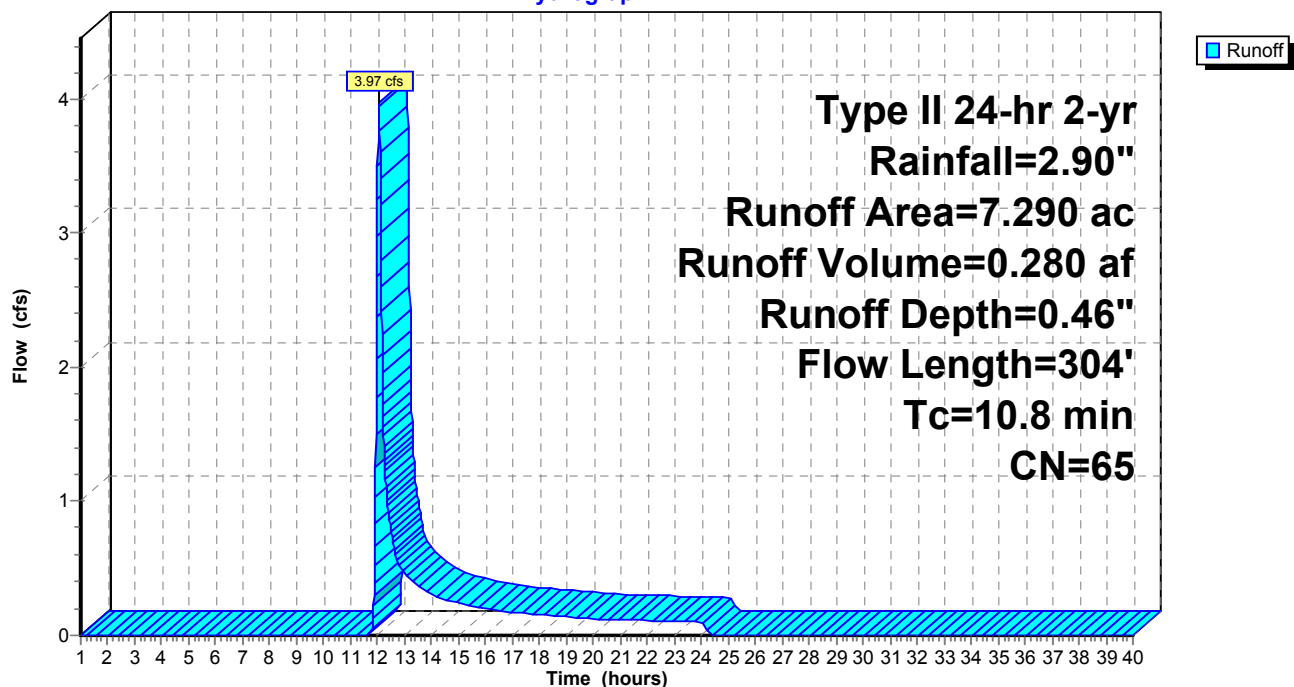
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.290	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	304	0.0300	0.5		Lag/CN Method,

Subcatchment W43: W43

Hydrograph



Subcatchment W44: W44

Runoff = 3.78 cfs @ 12.13 hrs, Volume= 0.337 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

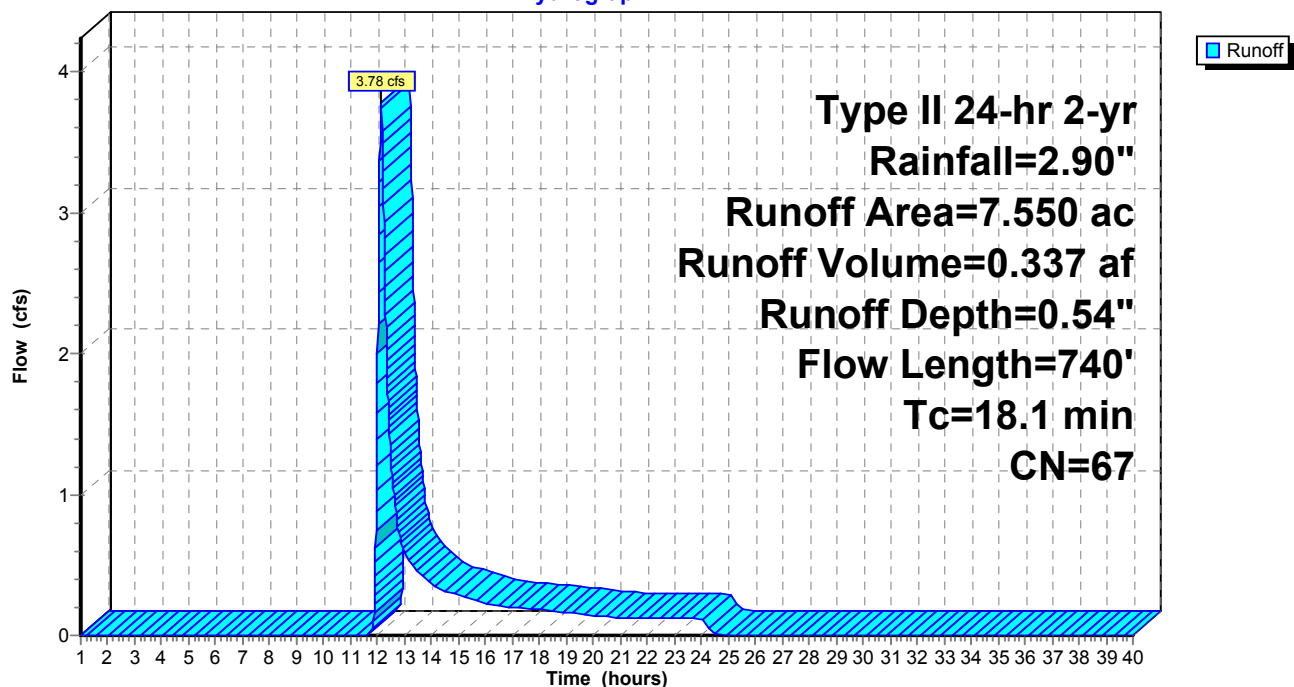
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.550	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.1	740	0.0400	0.7		Lag/CN Method,

Subcatchment W44: W44

Hydrograph



Subcatchment W45: W45

Runoff = 8.43 cfs @ 11.98 hrs, Volume= 0.405 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

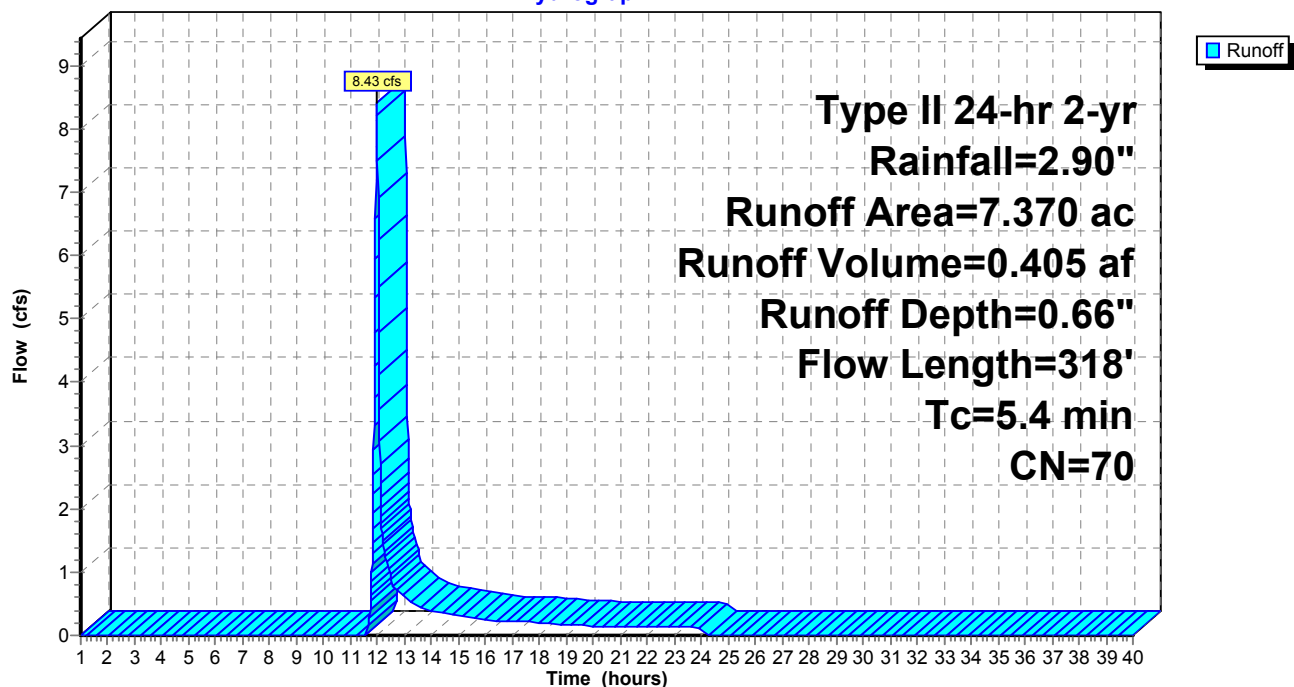
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.370	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.4	318	0.1000	1.0		Lag/CN Method,

Subcatchment W45: W45

Hydrograph



Subcatchment W46: W46

Runoff = 11.07 cfs @ 12.16 hrs, Volume= 0.930 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

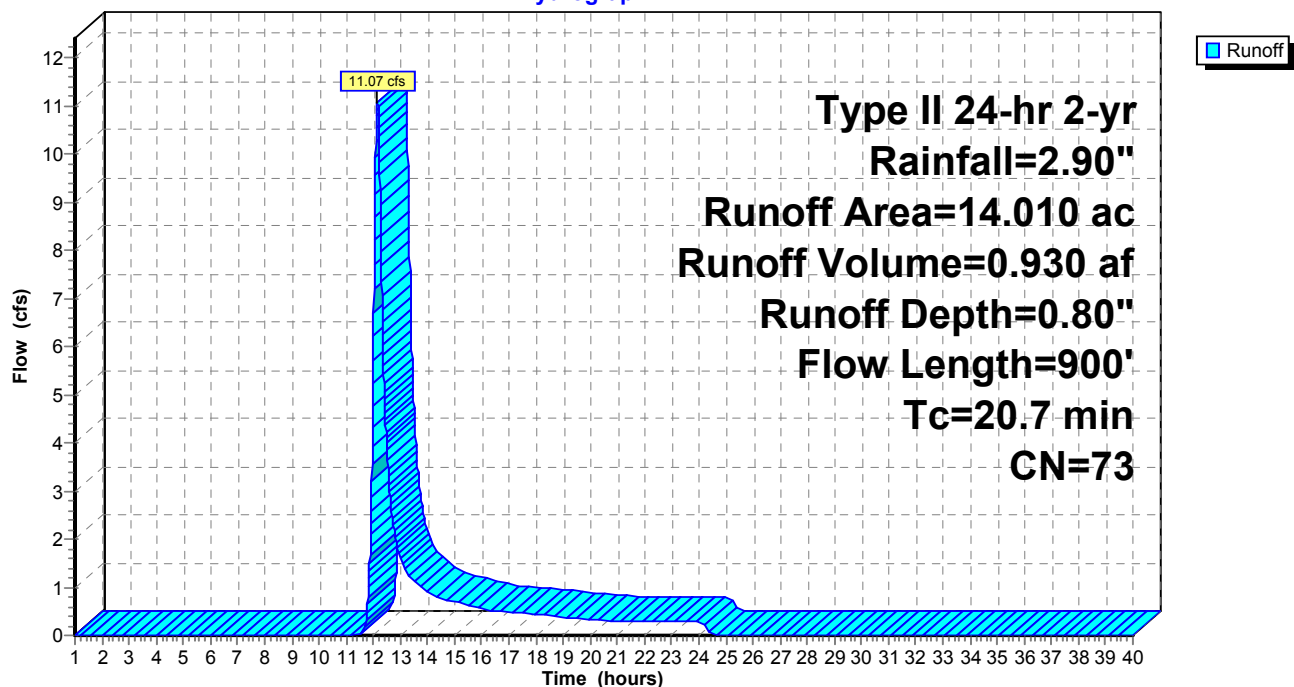
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
14.010	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.7	900	0.0300	0.7		Lag/CN Method,

Subcatchment W46: W46

Hydrograph



Subcatchment W47: W47

Runoff = 4.39 cfs @ 12.16 hrs, Volume= 0.376 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

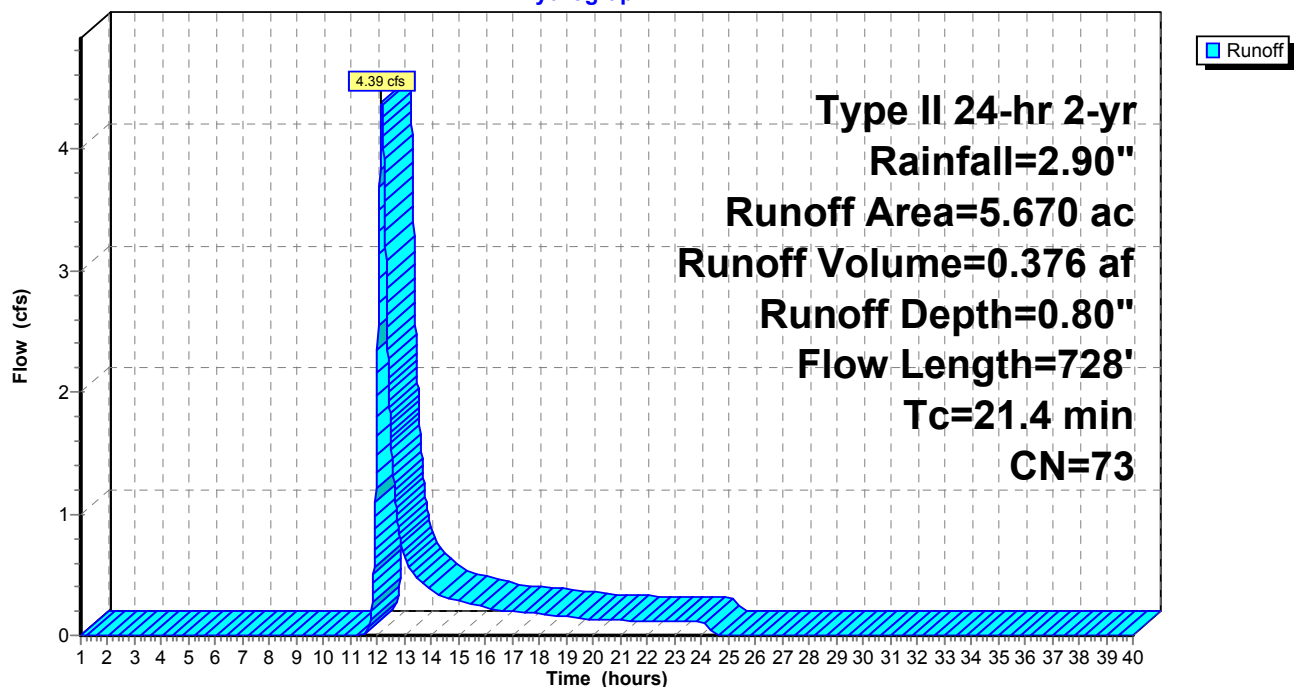
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.670	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.4	728	0.0200	0.6		Lag/CN Method,

Subcatchment W47: W47

Hydrograph



Subcatchment W48: W48

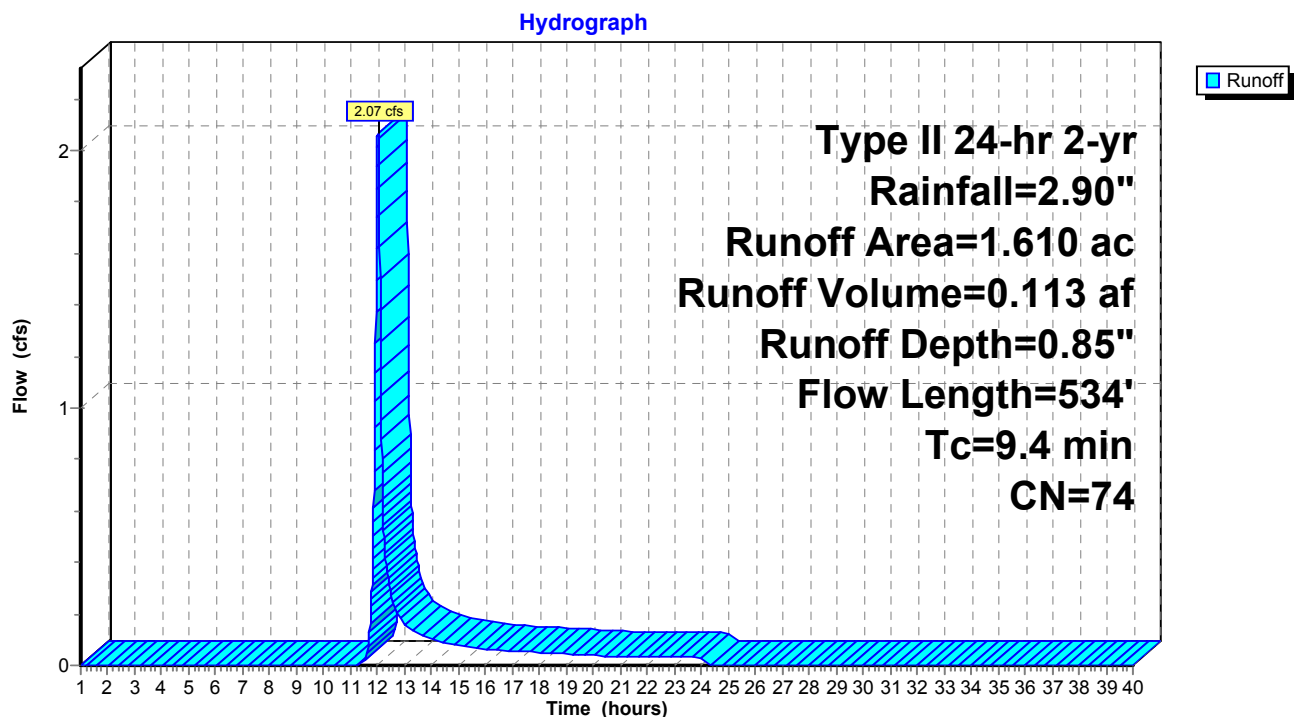
Runoff = 2.07 cfs @ 12.02 hrs, Volume= 0.113 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
1.610	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	534	0.0600	0.9		Lag/CN Method,

Subcatchment W48: W48

Subcatchment W49: W49

Runoff = 17.64 cfs @ 11.99 hrs, Volume= 0.858 af, Depth= 1.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

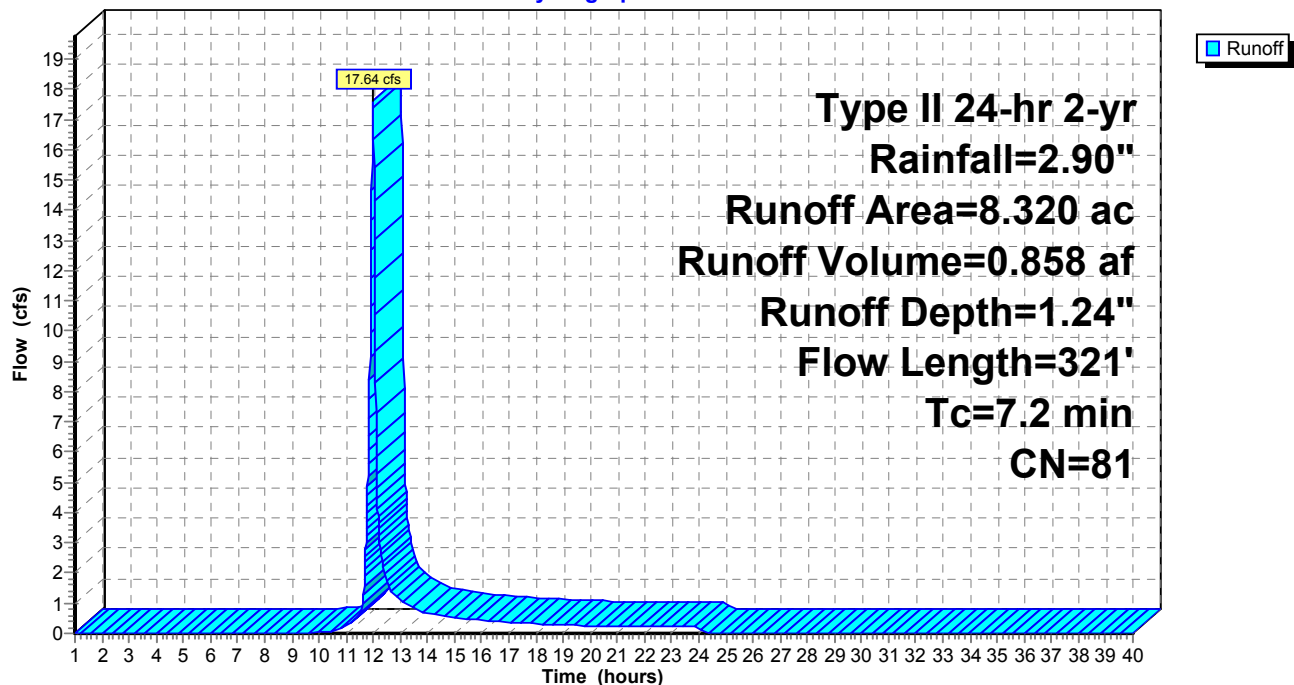
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.320	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	321	0.0300	0.7		Lag/CN Method,

Subcatchment W49: W49

Hydrograph



Subcatchment W50: W50

Runoff = 19.74 cfs @ 12.26 hrs, Volume= 1.970 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

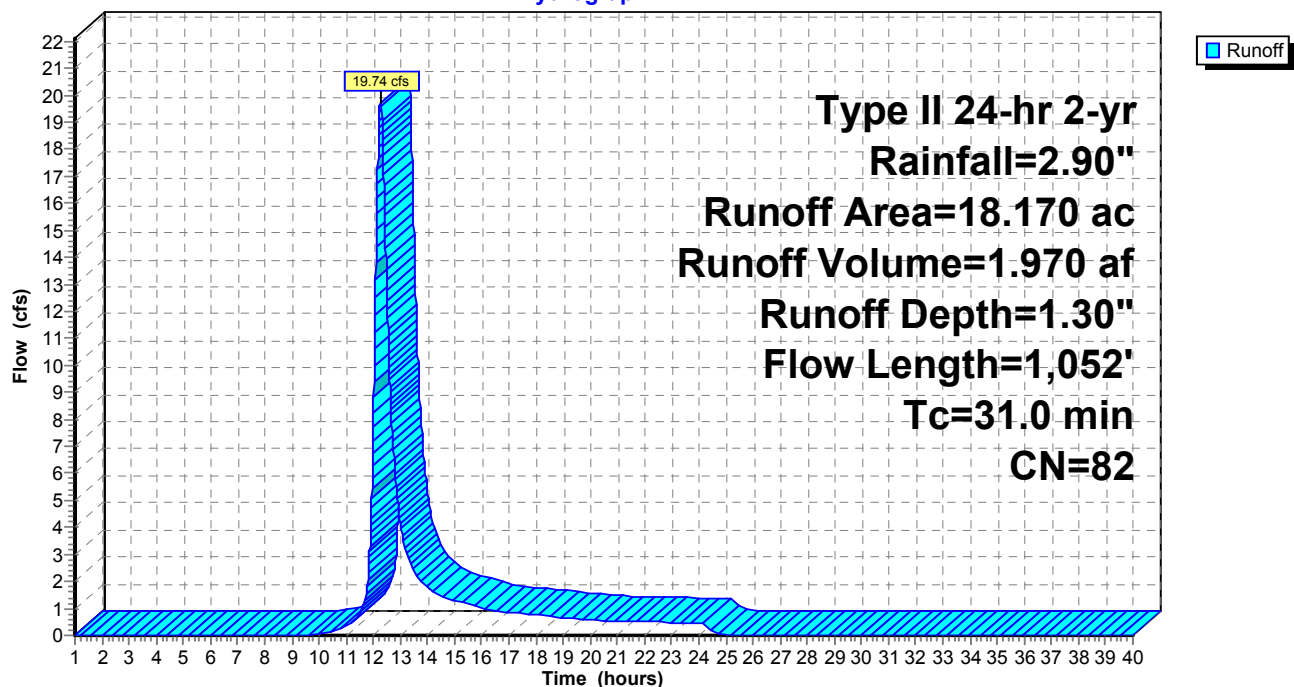
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.170	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	1,052	0.0100	0.6		Lag/CN Method,

Subcatchment W50: W50

Hydrograph



Subcatchment W51: W51

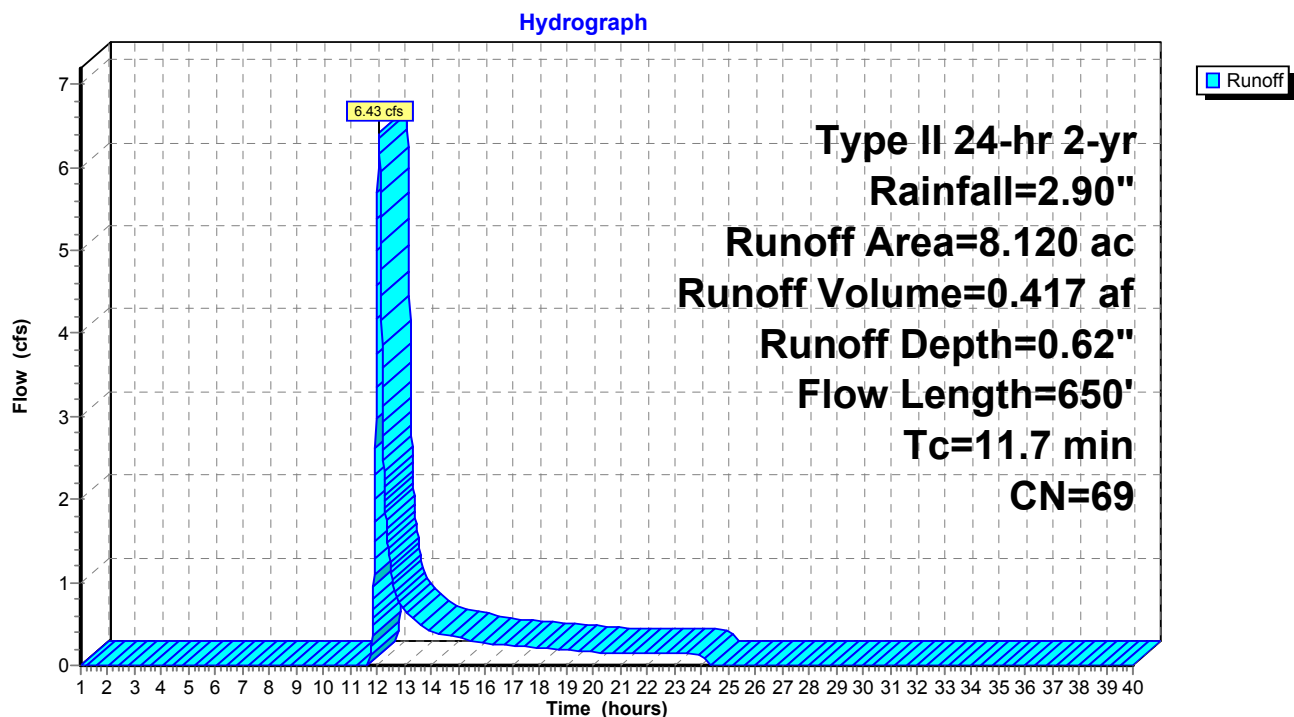
Runoff = 6.43 cfs @ 12.05 hrs, Volume= 0.417 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.120	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	650	0.0700	0.9		Lag/CN Method,

Subcatchment W51: W51

Subcatchment W52: W52

Runoff = 8.58 cfs @ 12.01 hrs, Volume= 0.449 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

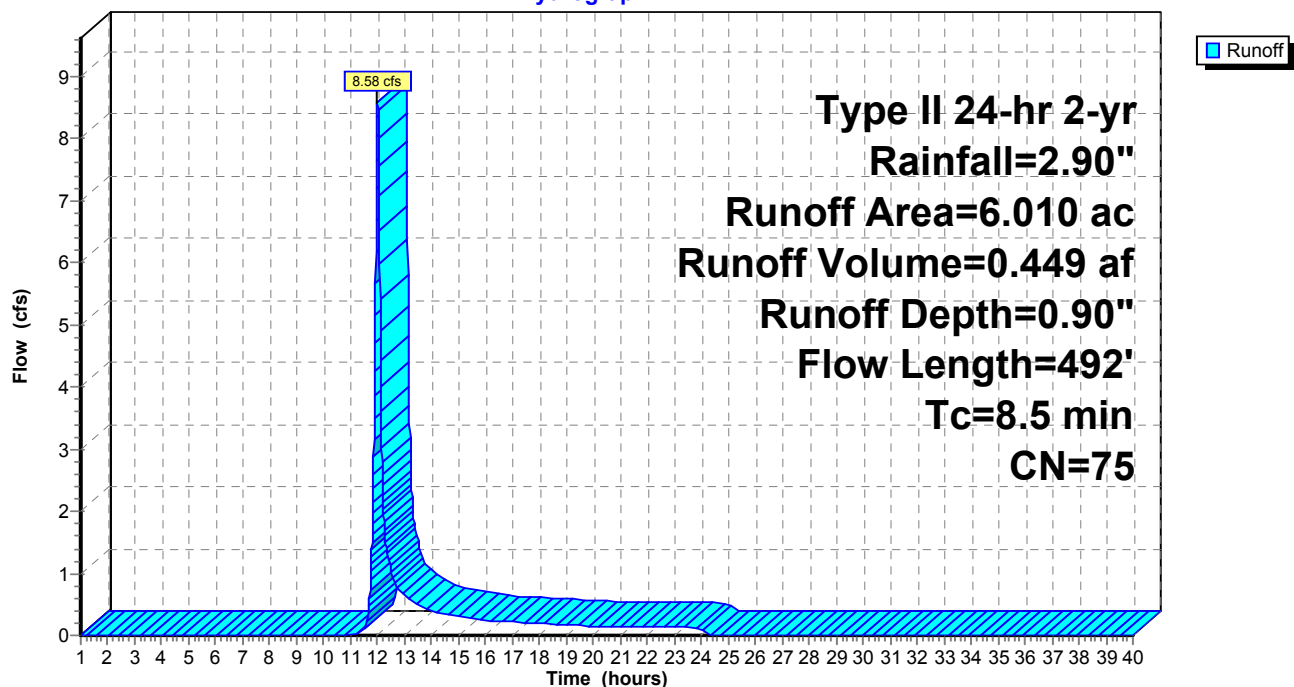
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
6.010	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	492	0.0600	1.0		Lag/CN Method,

Subcatchment W52: W52

Hydrograph



Subcatchment W53: W53

Runoff = 7.59 cfs @ 12.23 hrs, Volume= 0.763 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

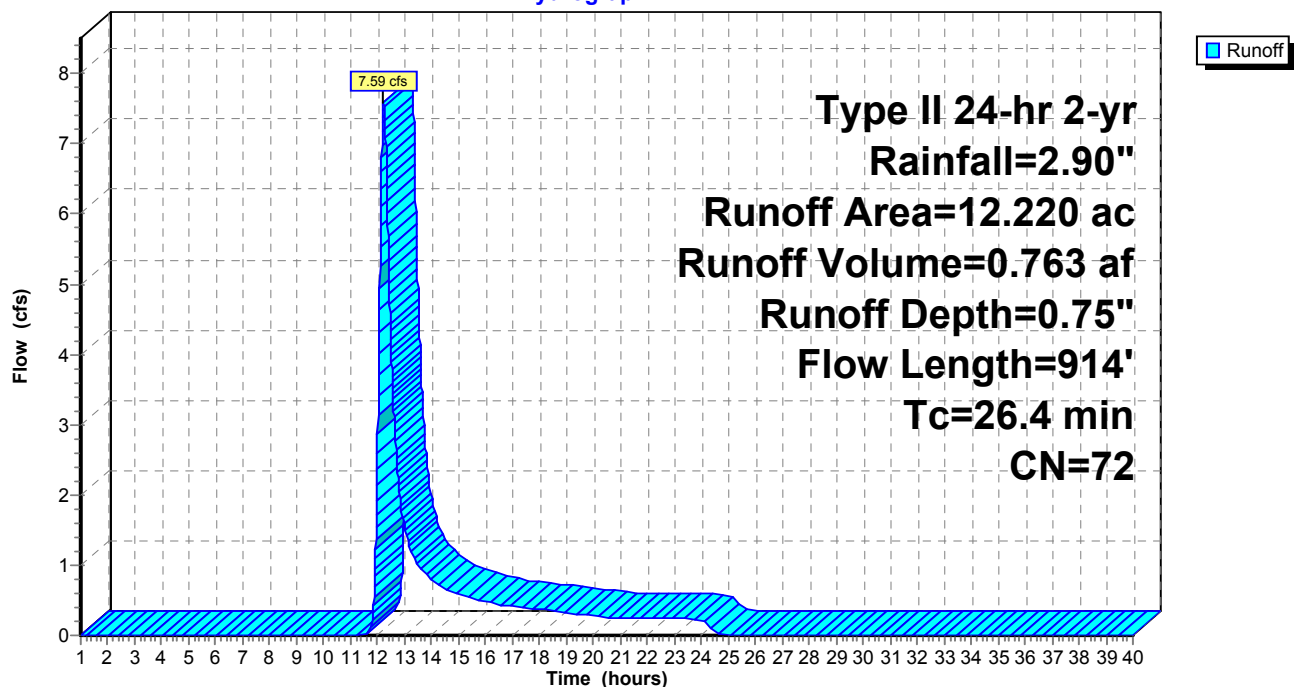
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
12.220	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	914	0.0200	0.6		Lag/CN Method,

Subcatchment W53: W53

Hydrograph



Subcatchment W54: W54

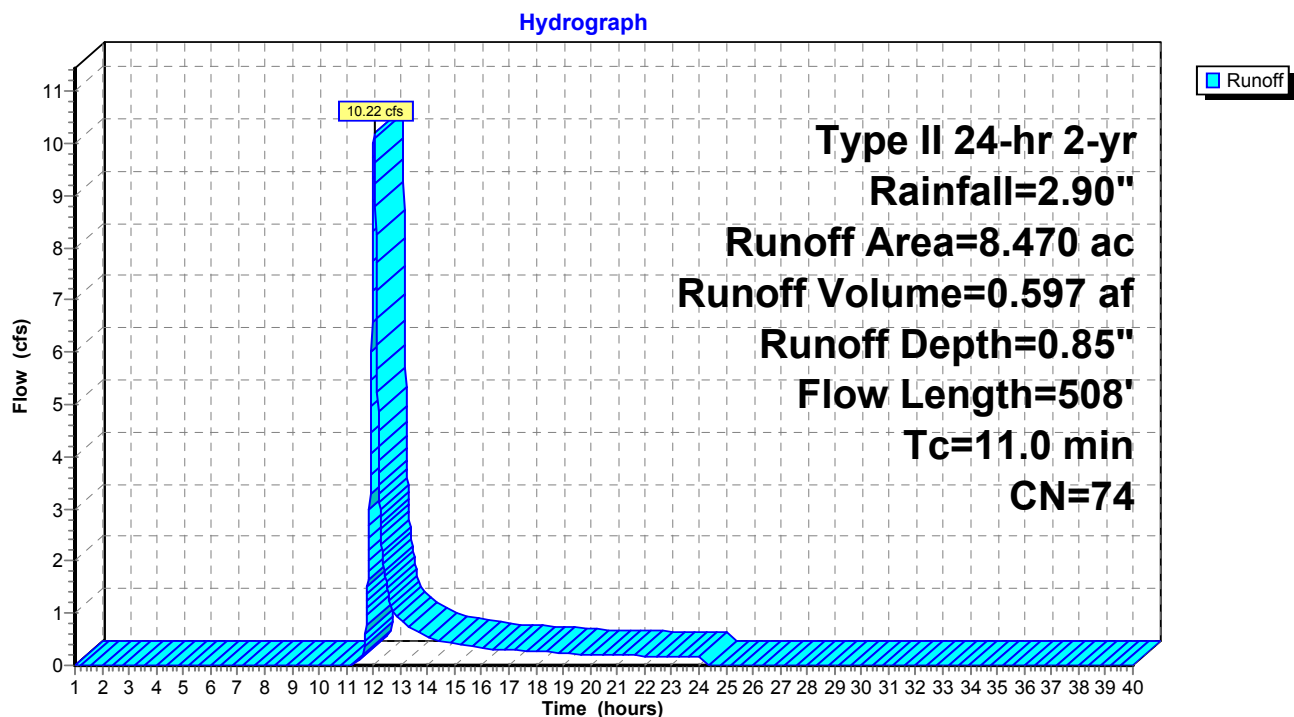
Runoff = 10.22 cfs @ 12.04 hrs, Volume= 0.597 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.470	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	508	0.0400	0.8		Lag/CN Method,

Subcatchment W54: W54

Subcatchment W55: W55

Runoff = 2.02 cfs @ 12.01 hrs, Volume= 0.110 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

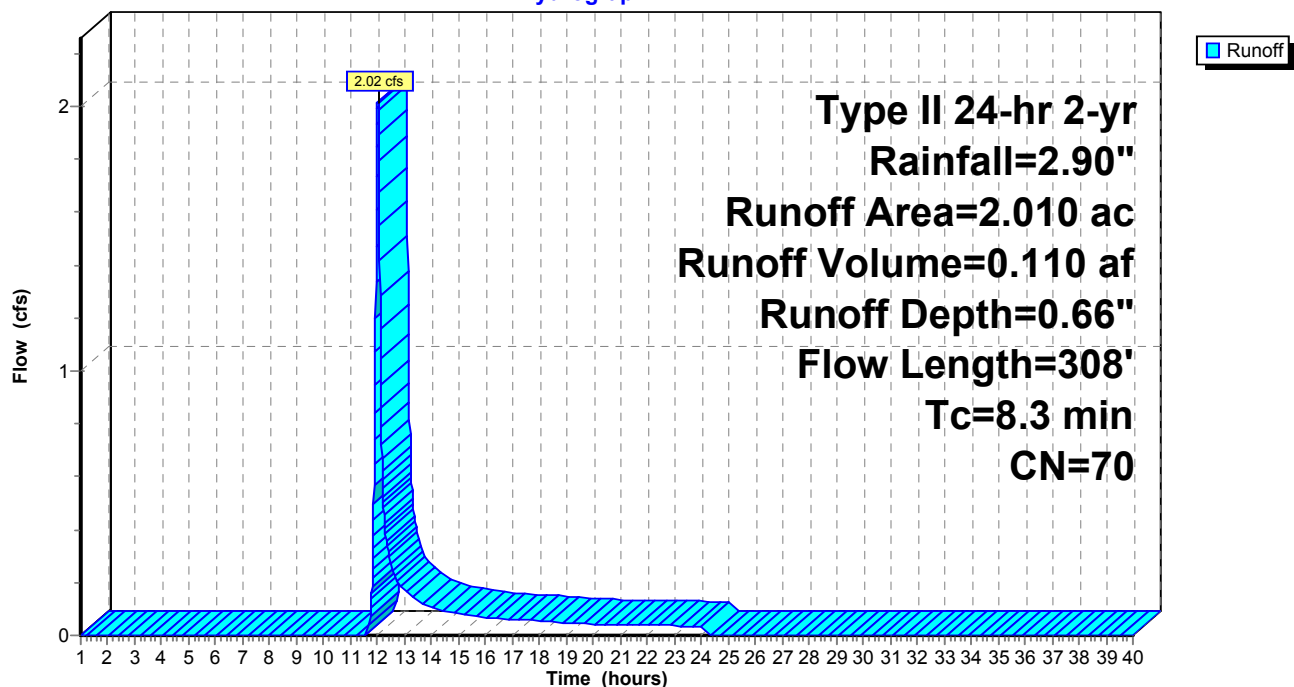
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
2.010	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	308	0.0400	0.6		Lag/CN Method,

Subcatchment W55: W55

Hydrograph



Subcatchment W56: W56

Runoff = 5.78 cfs @ 11.98 hrs, Volume= 0.287 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

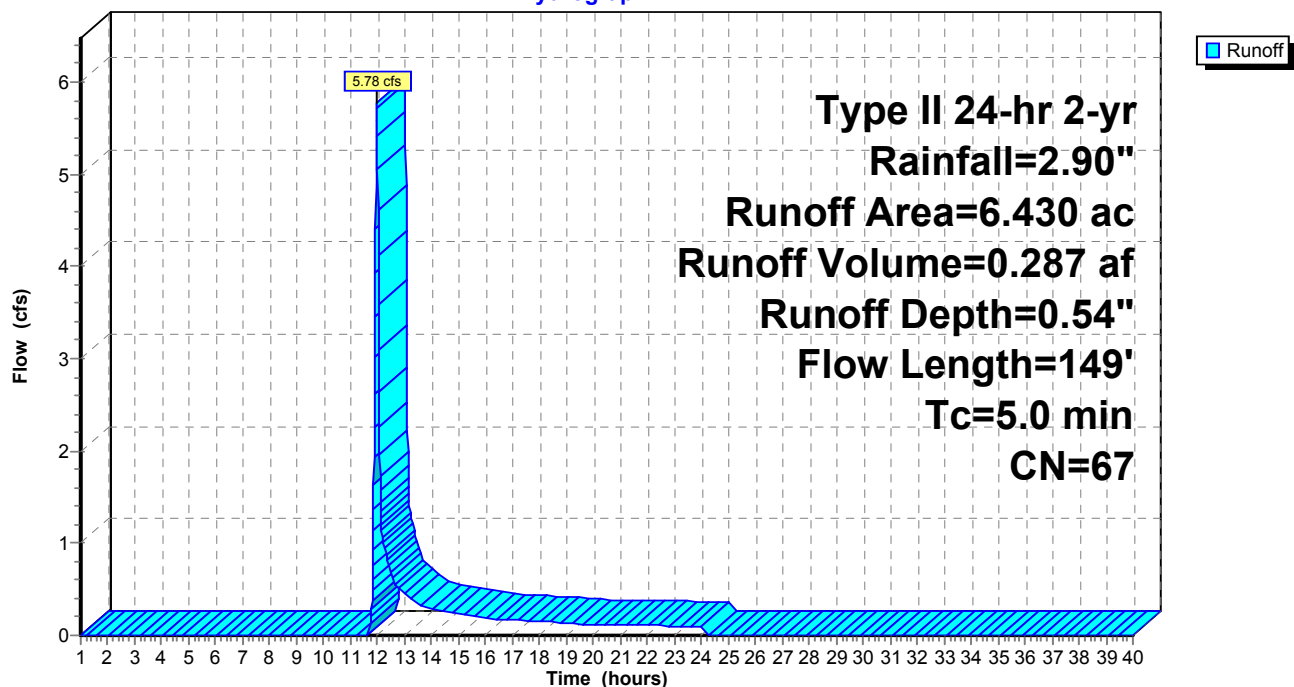
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
6.430	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	149	0.0400	0.5		Lag/CN Method,

Subcatchment W56: W56

Hydrograph



Subcatchment W57: W57

Runoff = 9.77 cfs @ 11.99 hrs, Volume= 0.503 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

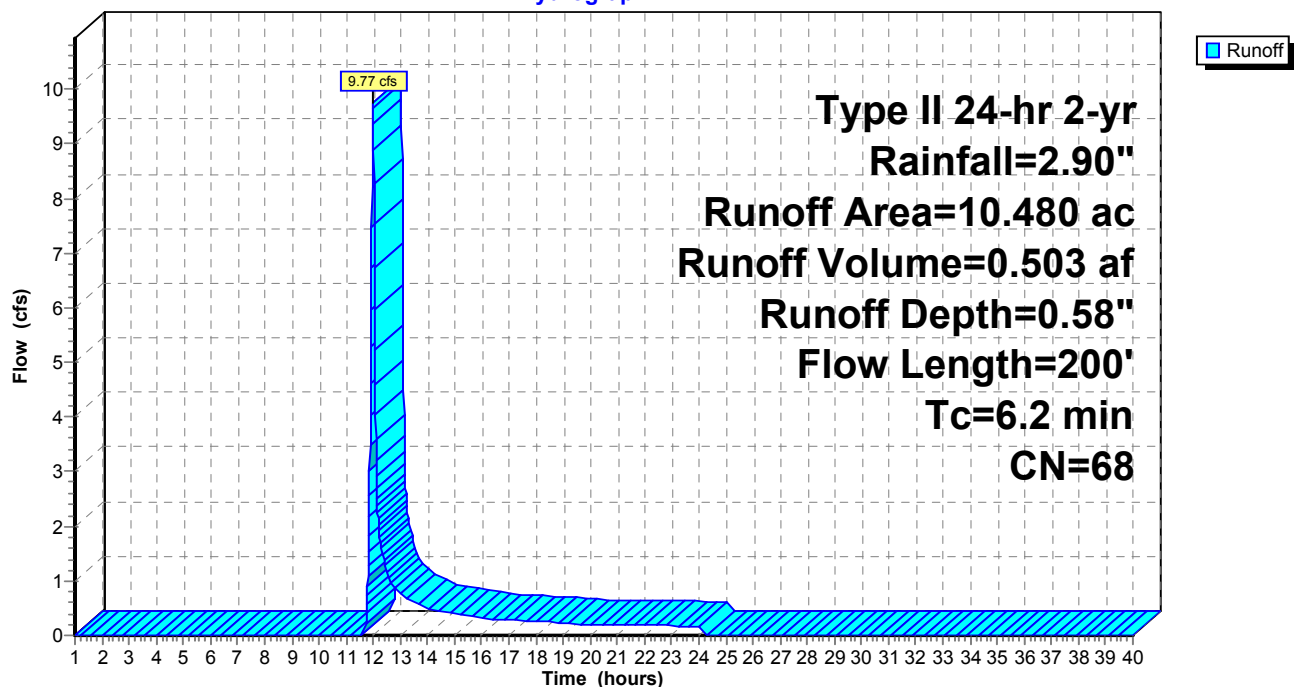
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
10.480	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	200	0.0400	0.5		Lag/CN Method,

Subcatchment W57: W57

Hydrograph



Subcatchment W58: W58

Runoff = 47.61 cfs @ 12.02 hrs, Volume= 2.714 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

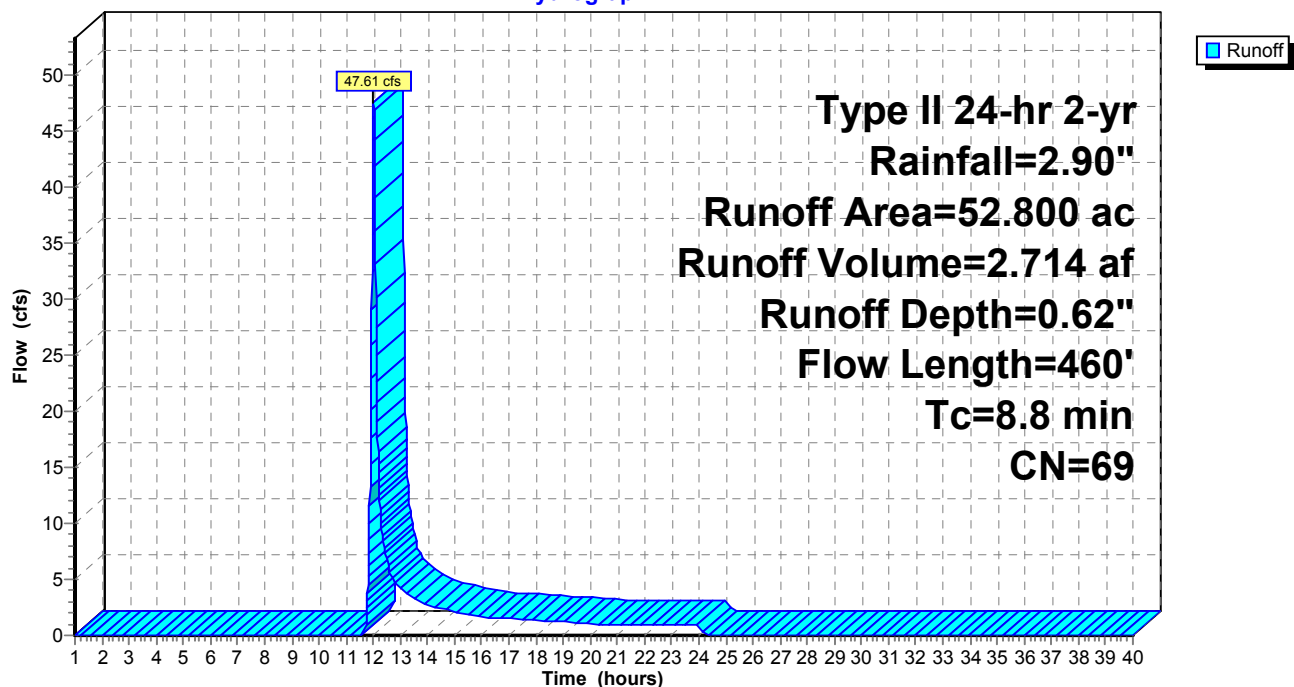
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
52.800	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	460	0.0700	0.9		Lag/CN Method,

Subcatchment W58: W58

Hydrograph



Subcatchment W59: W59

Runoff = 33.83 cfs @ 11.99 hrs, Volume= 1.656 af, Depth= 1.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

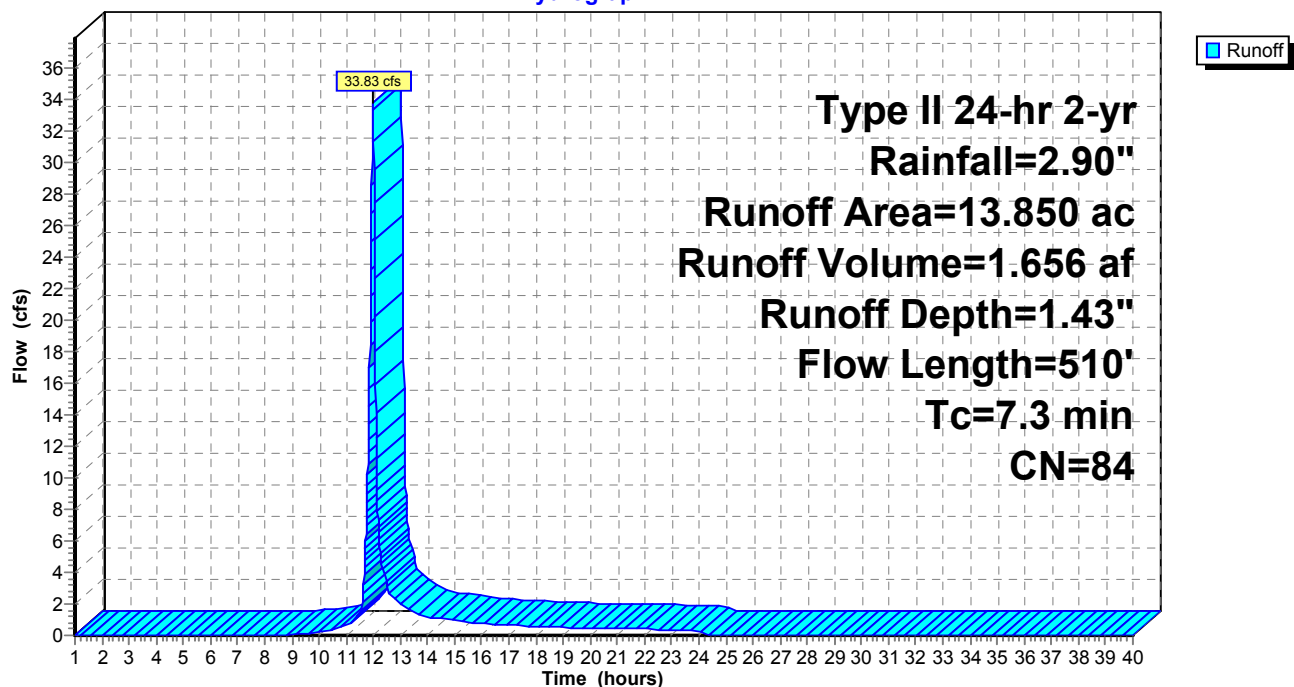
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
13.850	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	510	0.0500	1.2		Lag/CN Method,

Subcatchment W59: W59

Hydrograph



Subcatchment W60: W60

Runoff = 5.32 cfs @ 12.03 hrs, Volume= 0.294 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

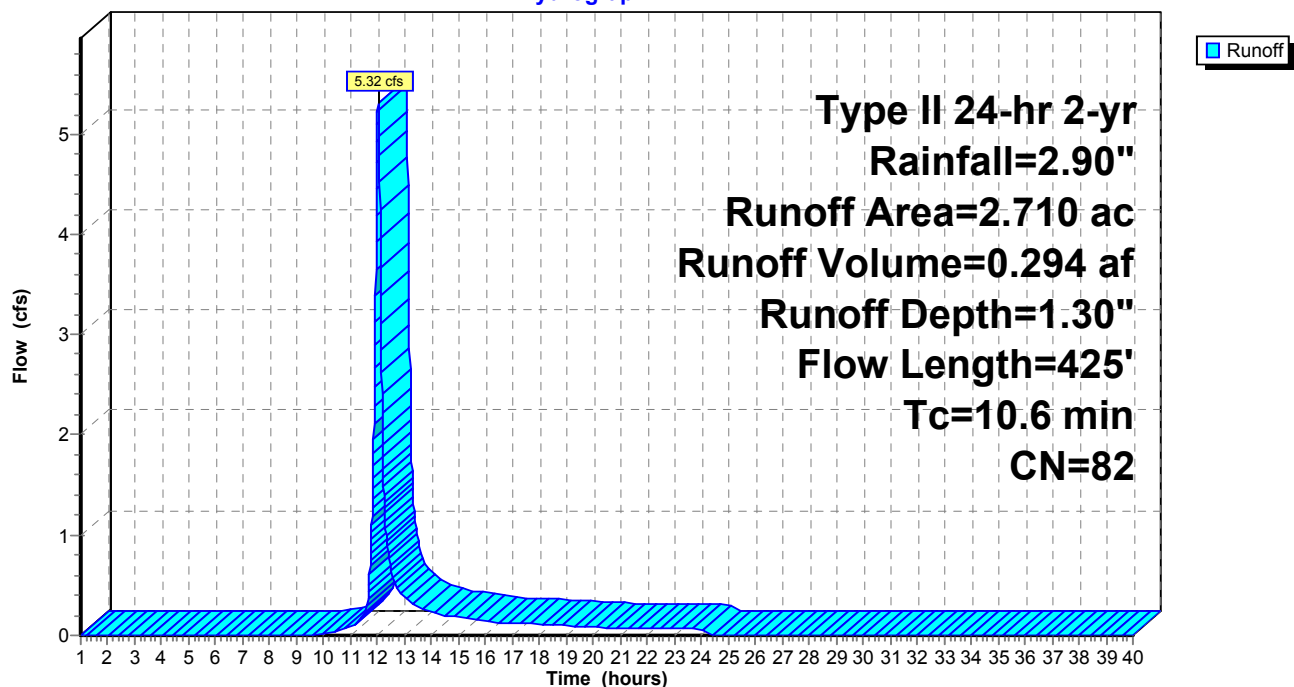
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
2.710	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	425	0.0200	0.7		Lag/CN Method,

Subcatchment W60: W60

Hydrograph



Subcatchment W61: W61

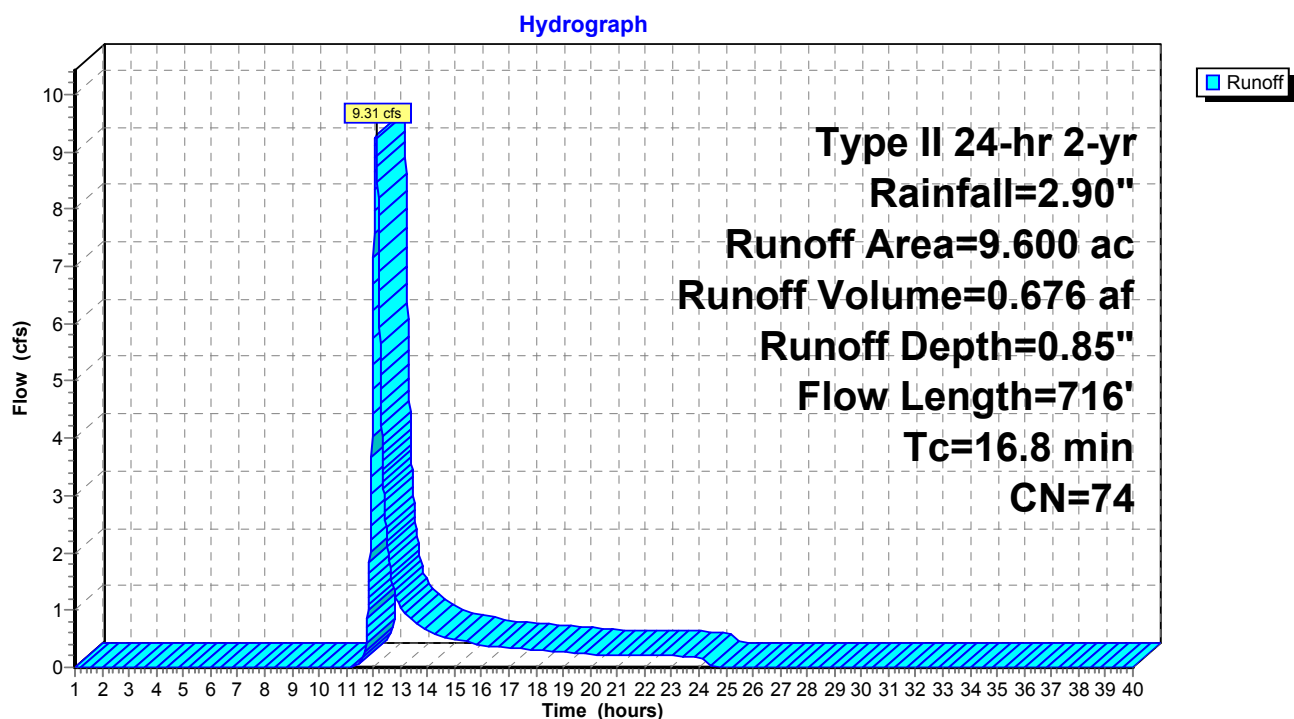
Runoff = 9.31 cfs @ 12.11 hrs, Volume= 0.676 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.600	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	716	0.0300	0.7		Lag/CN Method,

Subcatchment W61: W61

Subcatchment W62: W62

Runoff = 8.48 cfs @ 12.12 hrs, Volume= 0.646 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

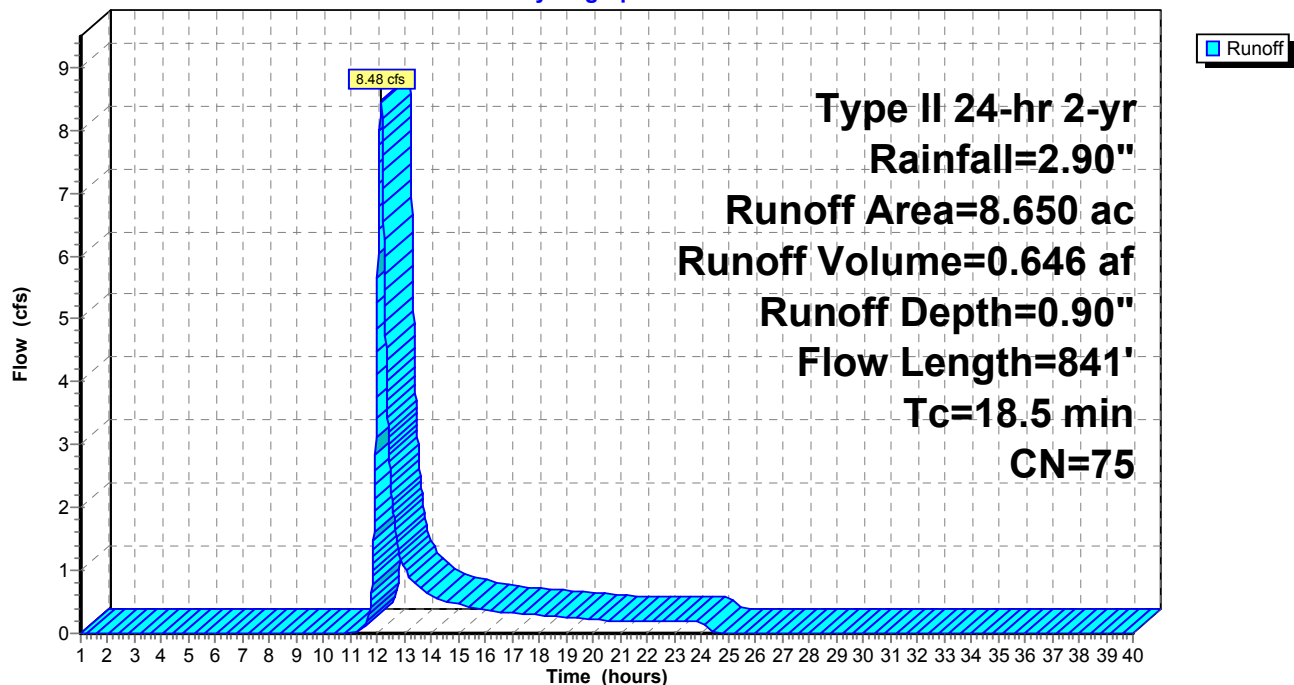
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.650	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.5	841	0.0300	0.8		Lag/CN Method,

Subcatchment W62: W62

Hydrograph



Subcatchment W63: W63

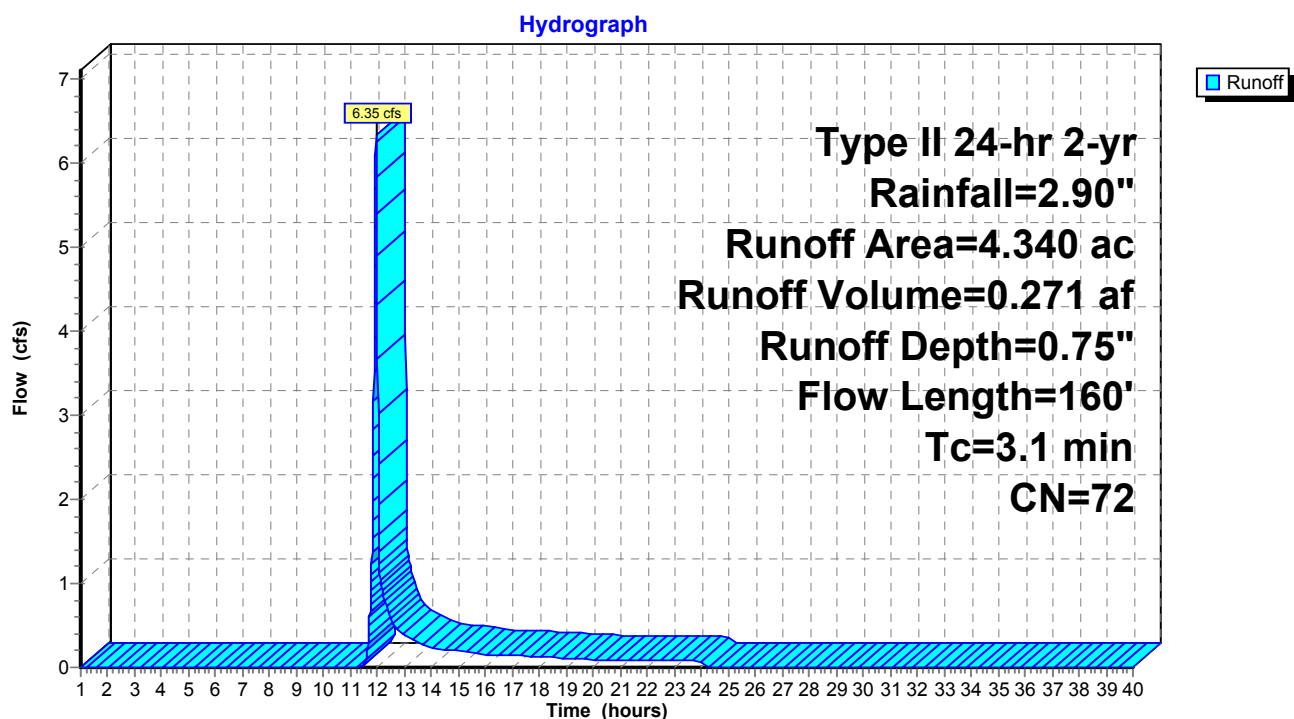
Runoff = 6.35 cfs @ 11.95 hrs, Volume= 0.271 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
4.340	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	160	0.0900	0.9		Lag/CN Method,

Subcatchment W63: W63

Subcatchment W64: W64

Runoff = 20.52 cfs @ 12.13 hrs, Volume= 1.564 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

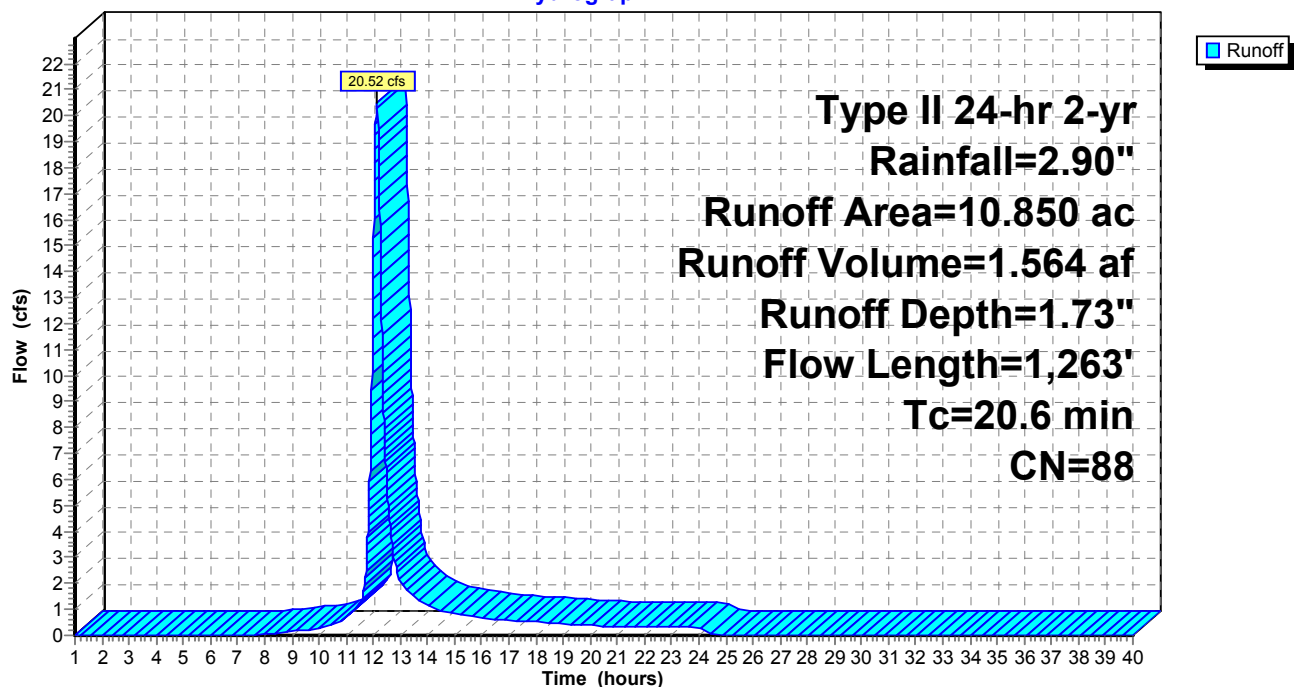
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
10.850	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,263	0.0200	1.0		Lag/CN Method,

Subcatchment W64: W64

Hydrograph



Subcatchment W65: W65

Runoff = 21.34 cfs @ 12.19 hrs, Volume= 1.901 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

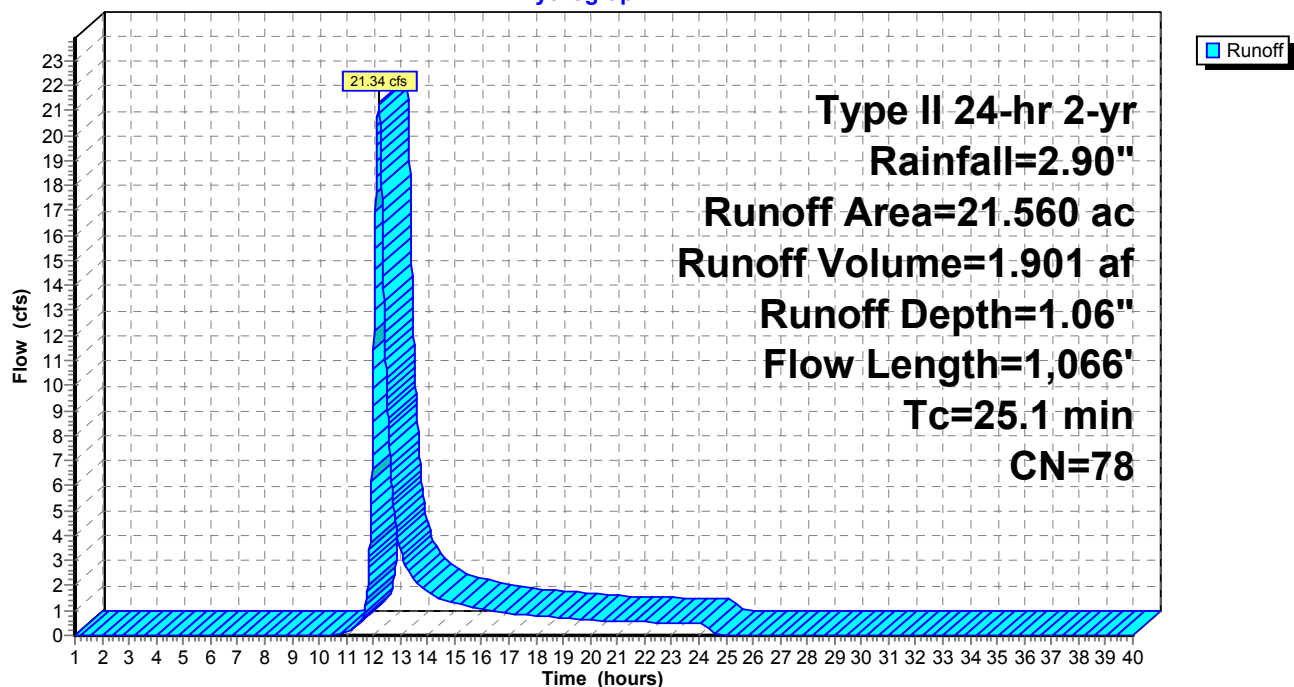
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
21.560	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,066	0.0200	0.7		Lag/CN Method,

Subcatchment W65: W65

Hydrograph



Subcatchment W66: W66

Runoff = 41.45 cfs @ 11.99 hrs, Volume= 2.001 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

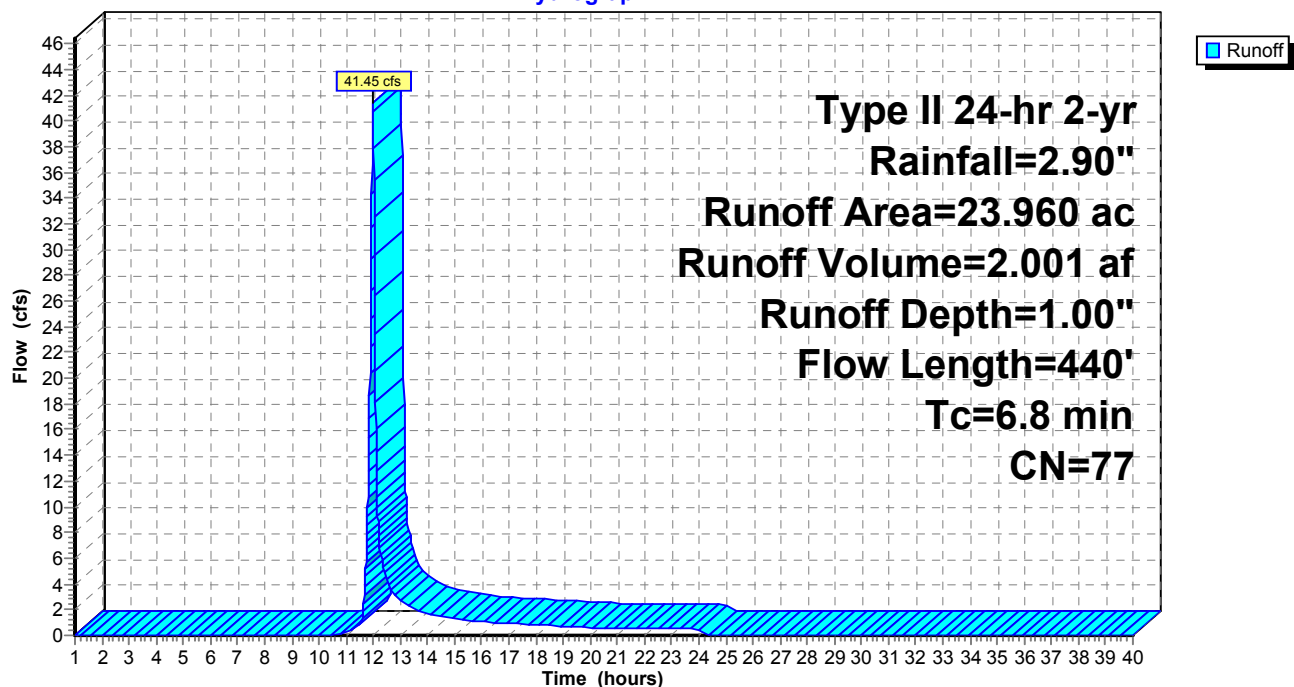
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
23.960	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	440	0.0700	1.1		Lag/CN Method,

Subcatchment W66: W66

Hydrograph



Subcatchment W67: W67

Runoff = 51.39 cfs @ 12.30 hrs, Volume= 5.405 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

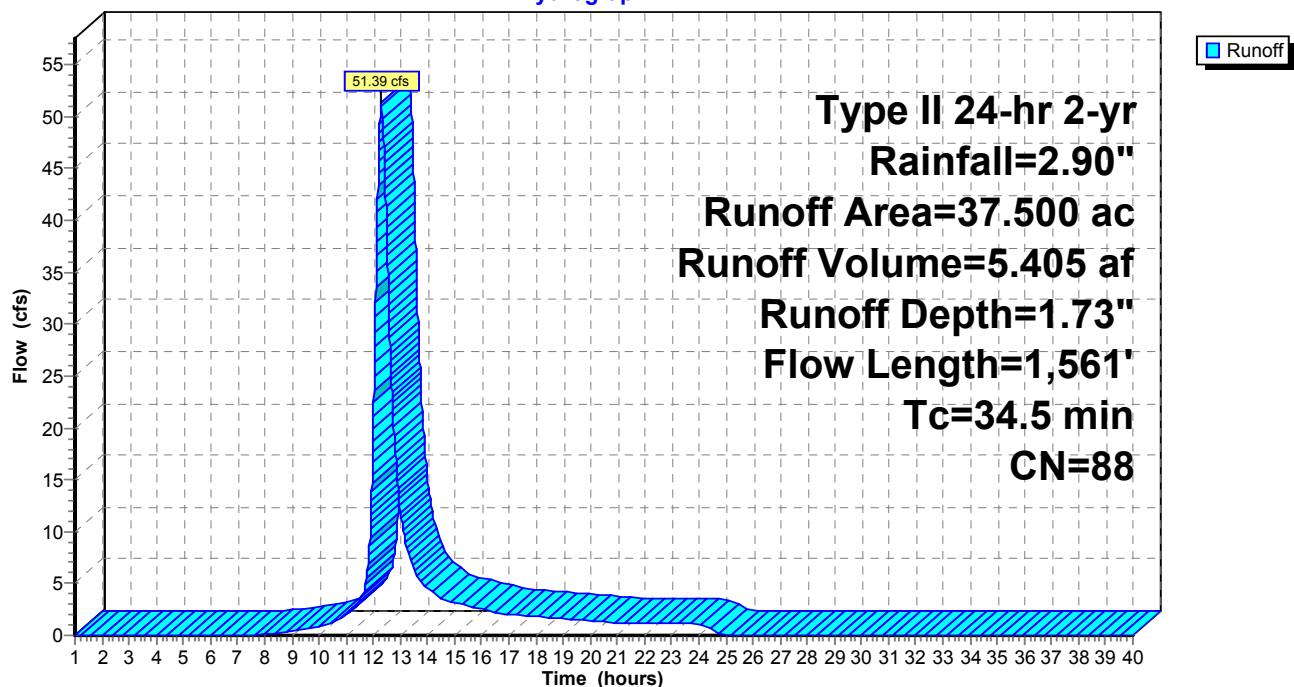
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
37.500	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.5	1,561	0.0100	0.8		Lag/CN Method,

Subcatchment W67: W67

Hydrograph



Subcatchment W68: W68

Runoff = 44.26 cfs @ 12.09 hrs, Volume= 3.396 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

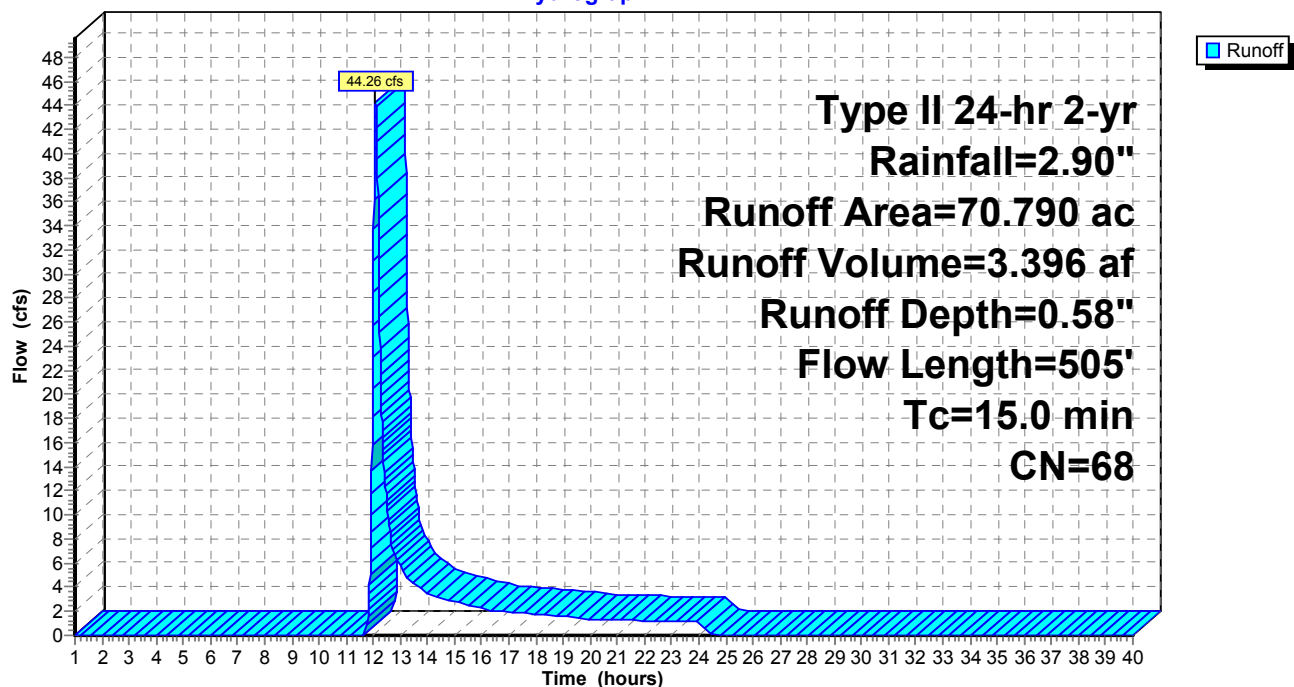
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
70.790	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	505	0.0300	0.6		Lag/CN Method,

Subcatchment W68: W68

Hydrograph



Subcatchment W69: W69

Runoff = 12.76 cfs @ 12.02 hrs, Volume= 0.747 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

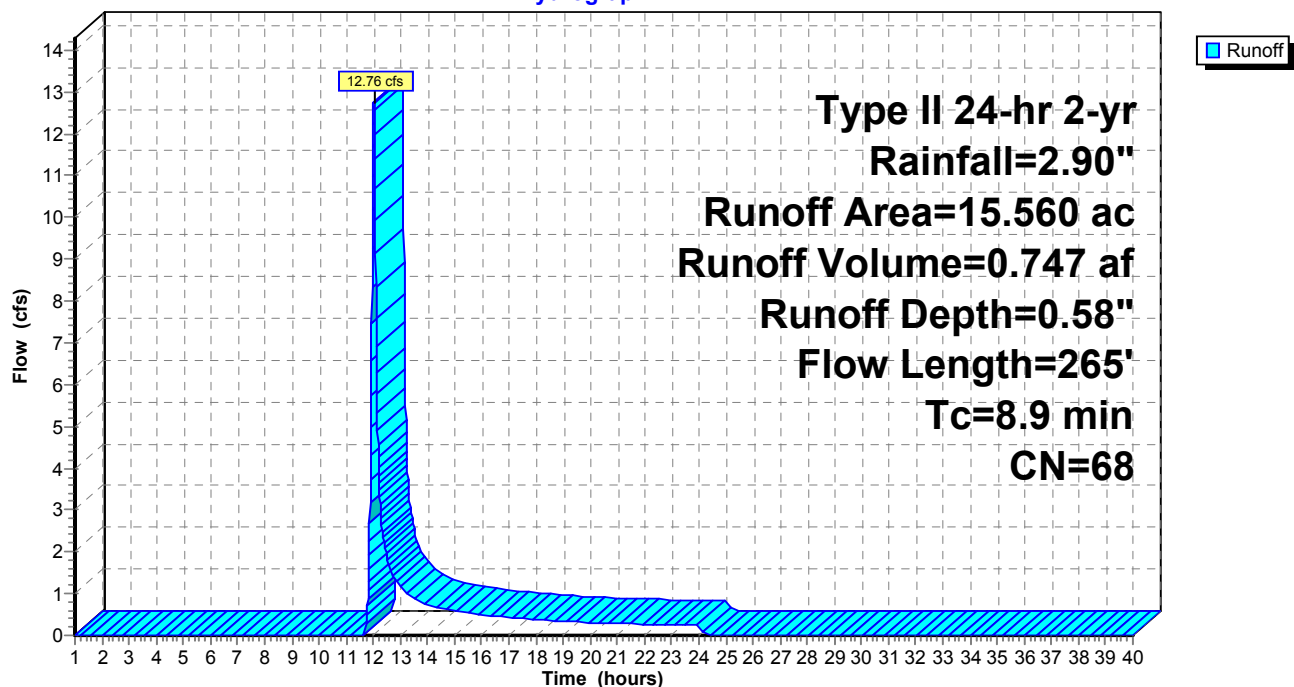
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
15.560	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	265	0.0300	0.5		Lag/CN Method,

Subcatchment W69: W69

Hydrograph



Subcatchment W70: W70

Runoff = 14.04 cfs @ 14.57 hrs, Volume= 6.193 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

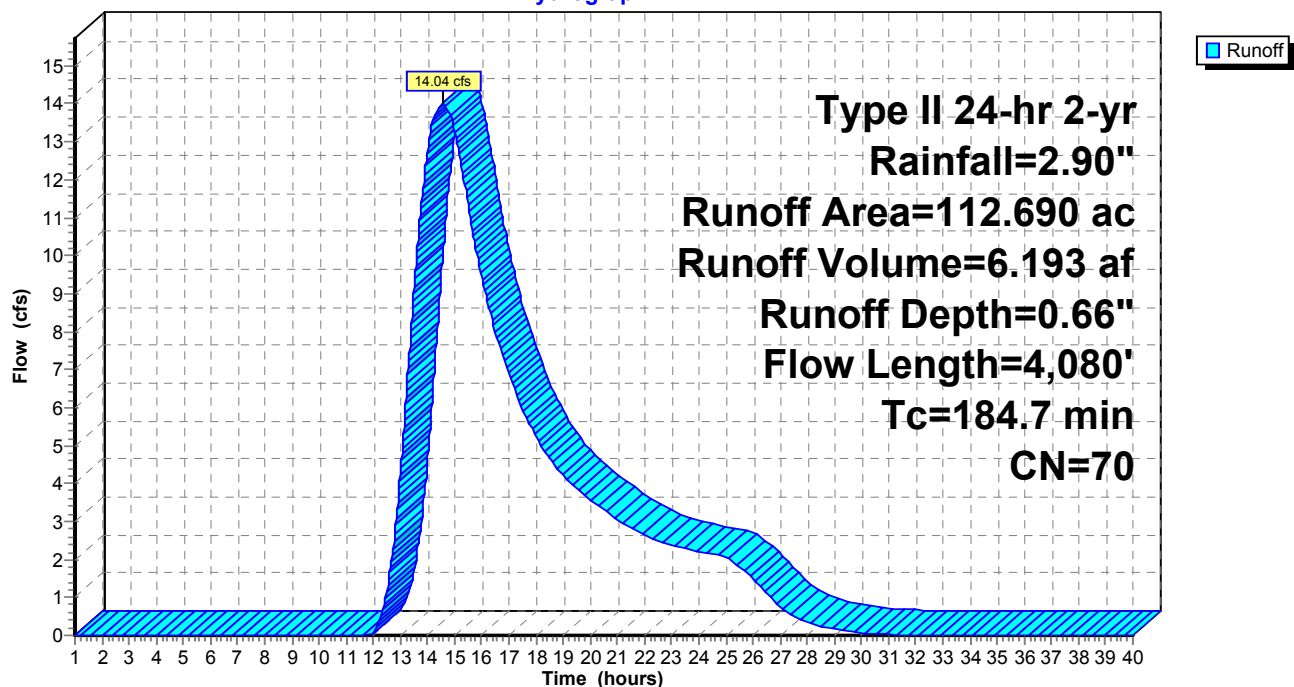
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
112.690	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
184.7	4,080	0.0050	0.4		Lag/CN Method,

Subcatchment W70: W70

Hydrograph



Subcatchment W71: W71

Runoff = 8.74 cfs @ 12.83 hrs, Volume= 1.913 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

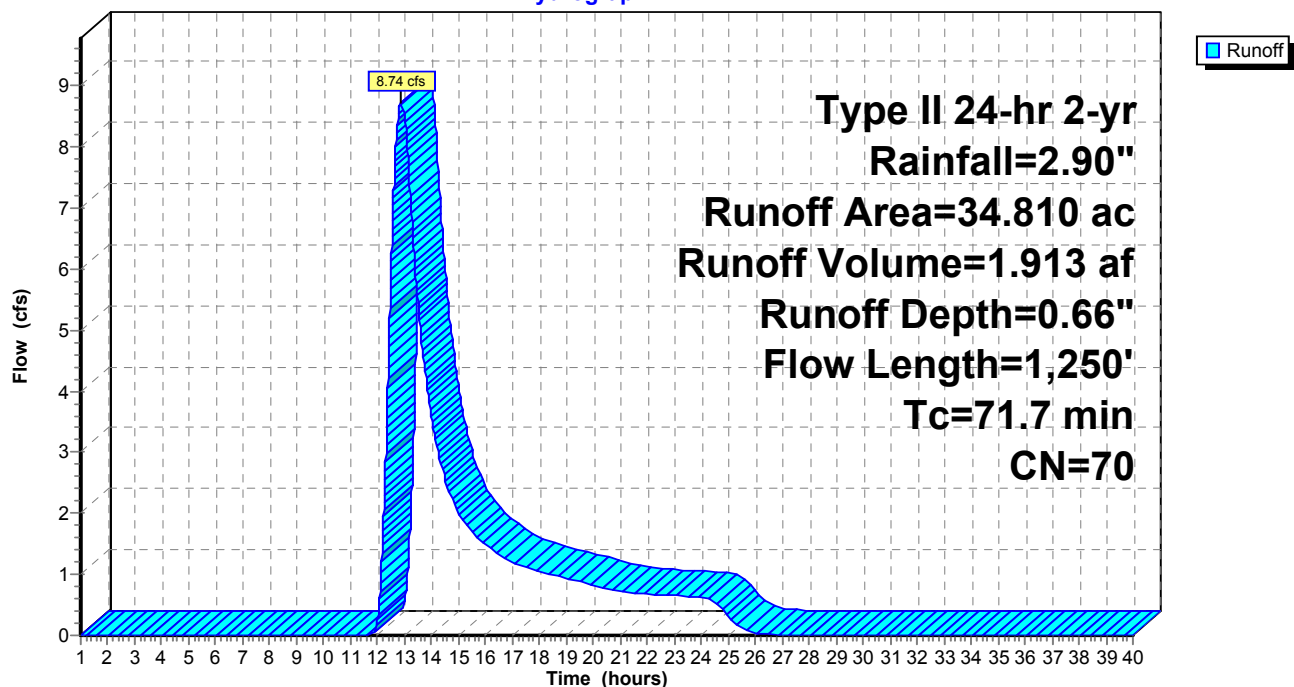
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
34.810	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.7	1,250	0.0050	0.3		Lag/CN Method,

Subcatchment W71: W71

Hydrograph



Subcatchment W72: W72

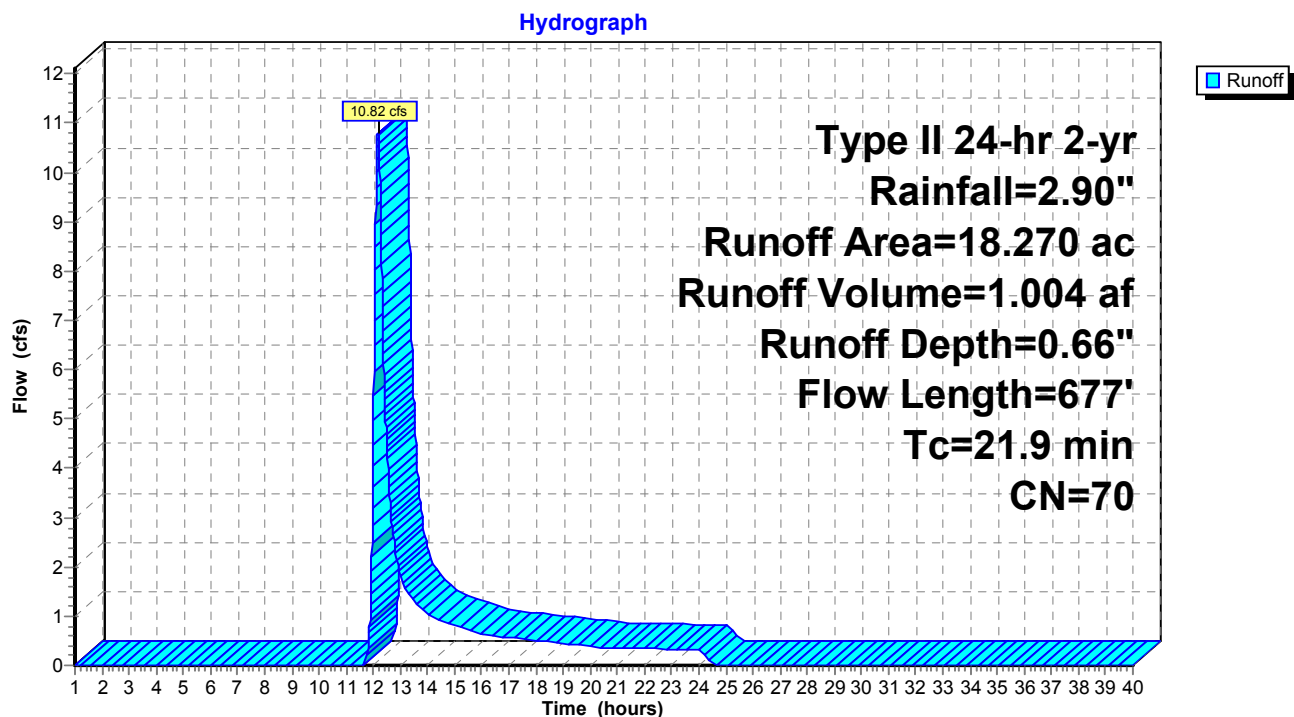
Runoff = 10.82 cfs @ 12.18 hrs, Volume= 1.004 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.270	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	677	0.0200	0.5		Lag/CN Method,

Subcatchment W72: W72

Subcatchment W73: W73

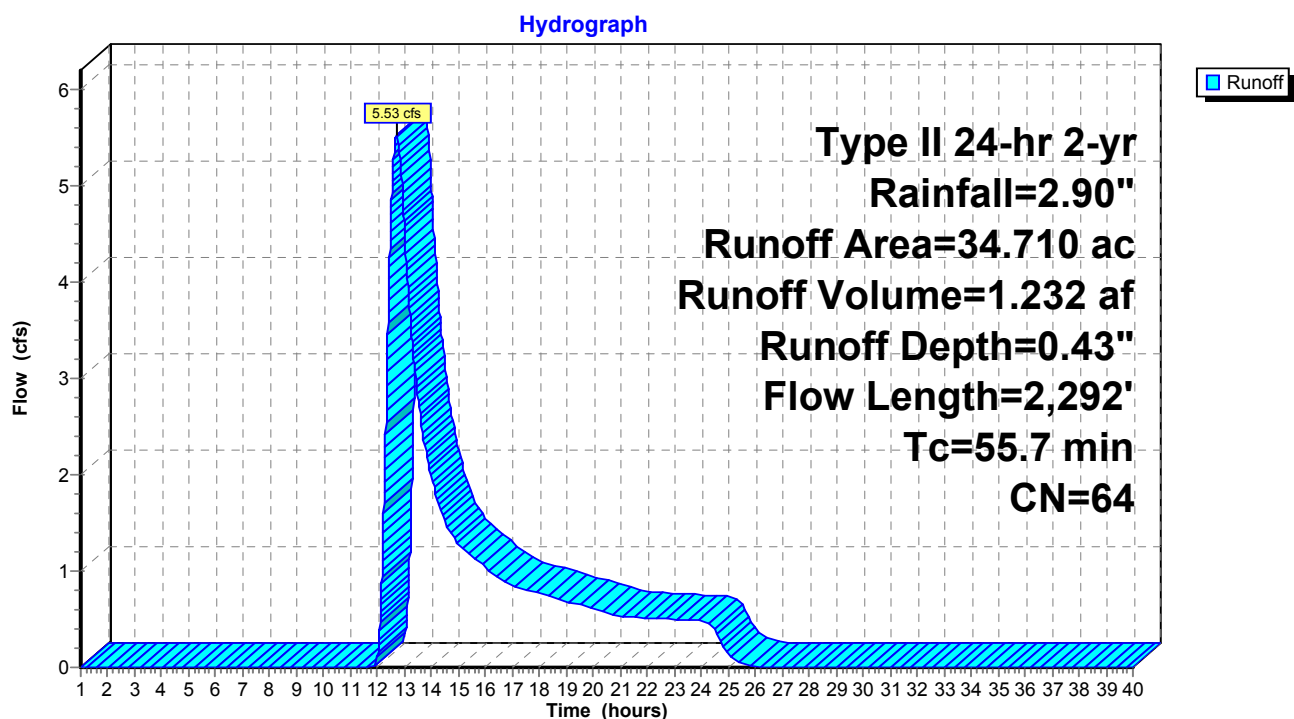
Runoff = 5.53 cfs @ 12.69 hrs, Volume= 1.232 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
34.710	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.7	2,292	0.0300	0.7		Lag/CN Method,

Subcatchment W73: W73

Subcatchment W74: W74

Runoff = 3.57 cfs @ 12.03 hrs, Volume= 0.220 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

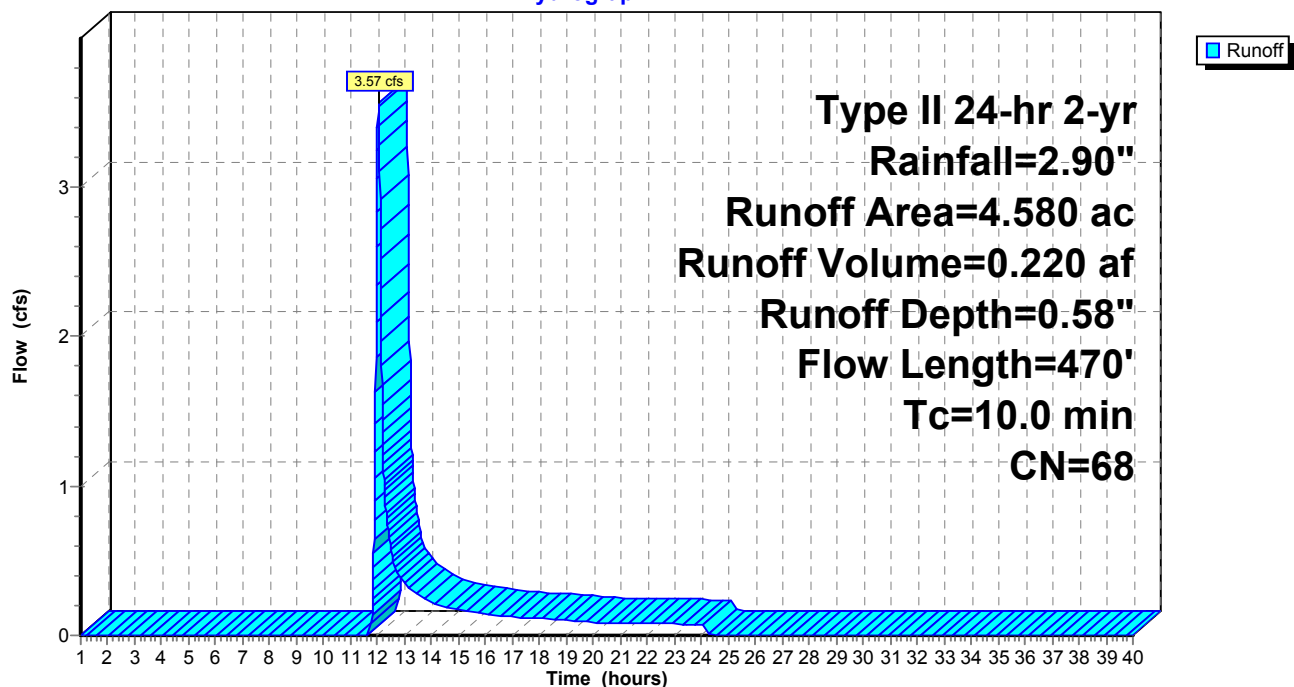
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
4.580	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	470	0.0600	0.8		Lag/CN Method,

Subcatchment W74: W74

Hydrograph



Subcatchment W75: W75

Runoff = 42.78 cfs @ 12.10 hrs, Volume= 3.052 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

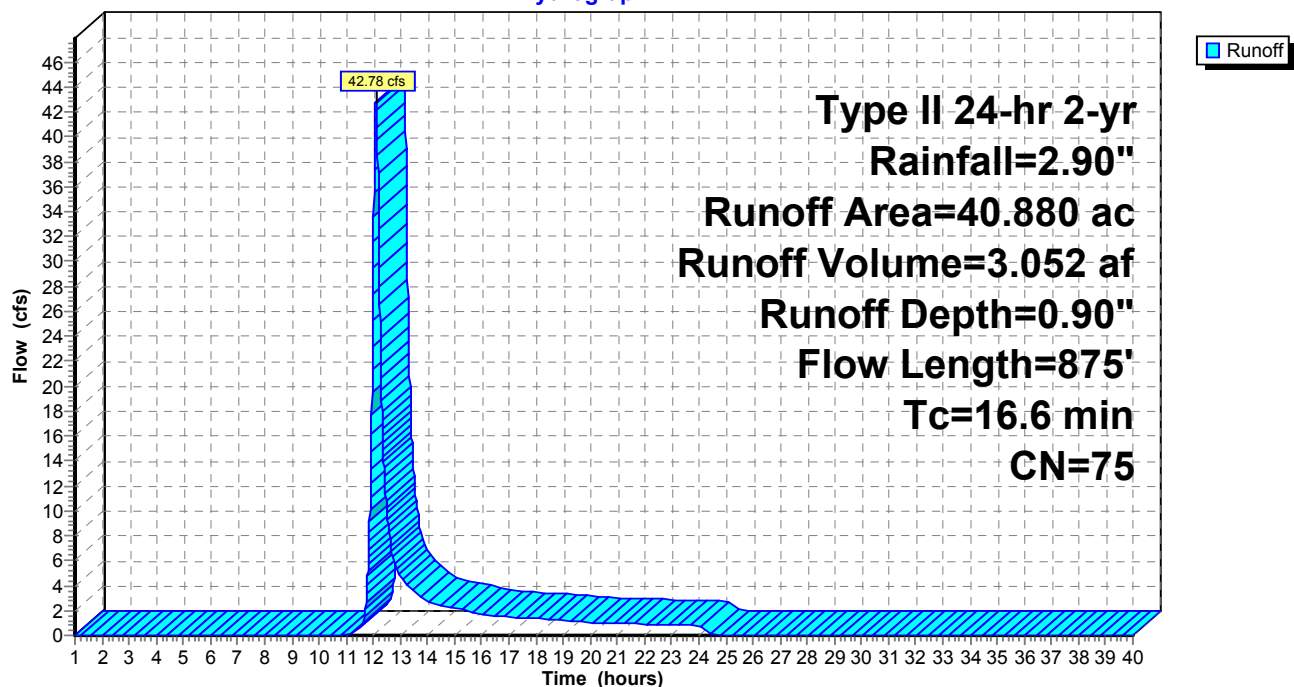
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
40.880	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	875	0.0400	0.9		Lag/CN Method,

Subcatchment W75: W75

Hydrograph



Subcatchment W76: W76

Runoff = 22.68 cfs @ 12.40 hrs, Volume= 3.065 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

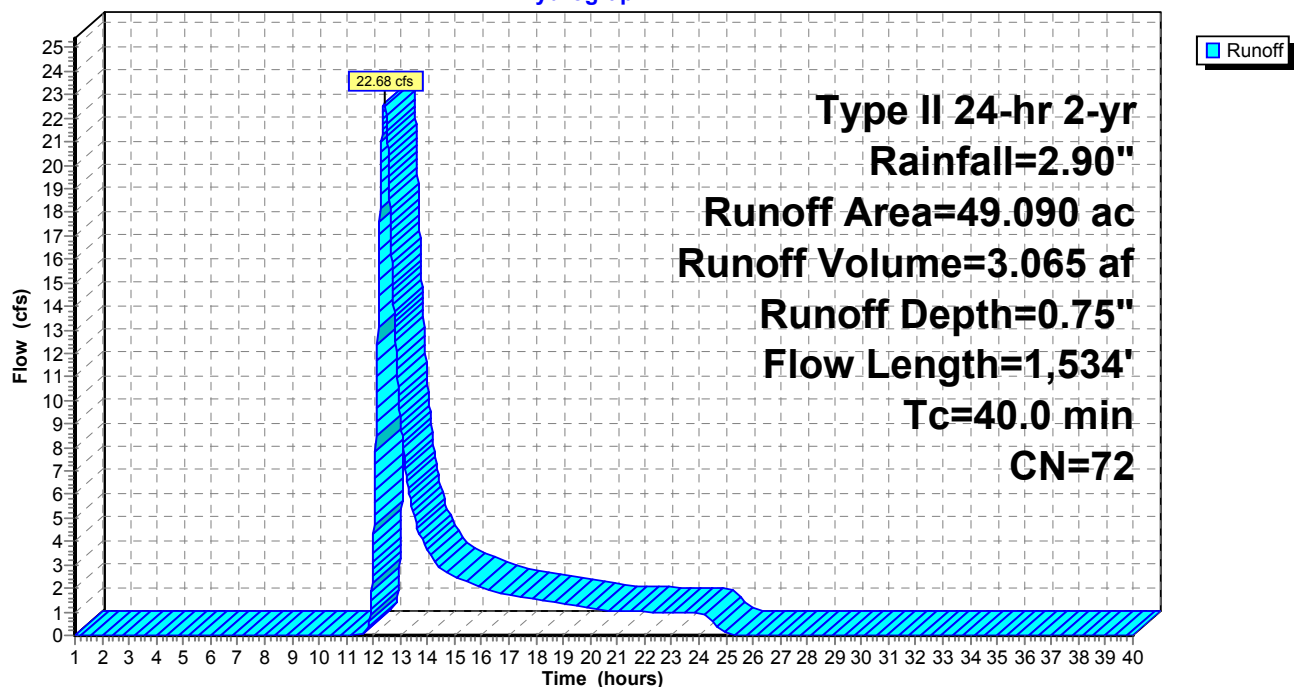
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
49.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.0	1,534	0.0200	0.6		Lag/CN Method,

Subcatchment W76: W76

Hydrograph



Subcatchment W77: W77

Runoff = 96.68 cfs @ 12.02 hrs, Volume= 5.154 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

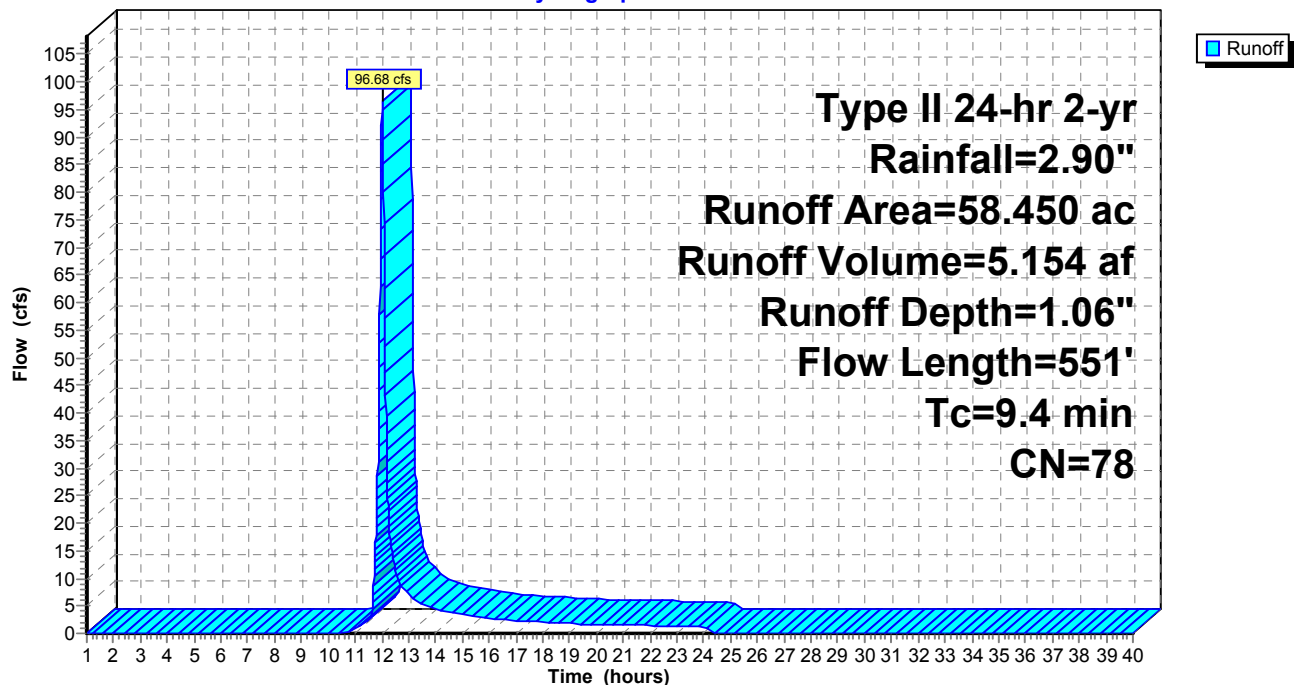
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
58.450	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	551	0.0500	1.0		Lag/CN Method,

Subcatchment W77: W77

Hydrograph



Subcatchment W79: W79

Runoff = 10.37 cfs @ 12.62 hrs, Volume= 1.959 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

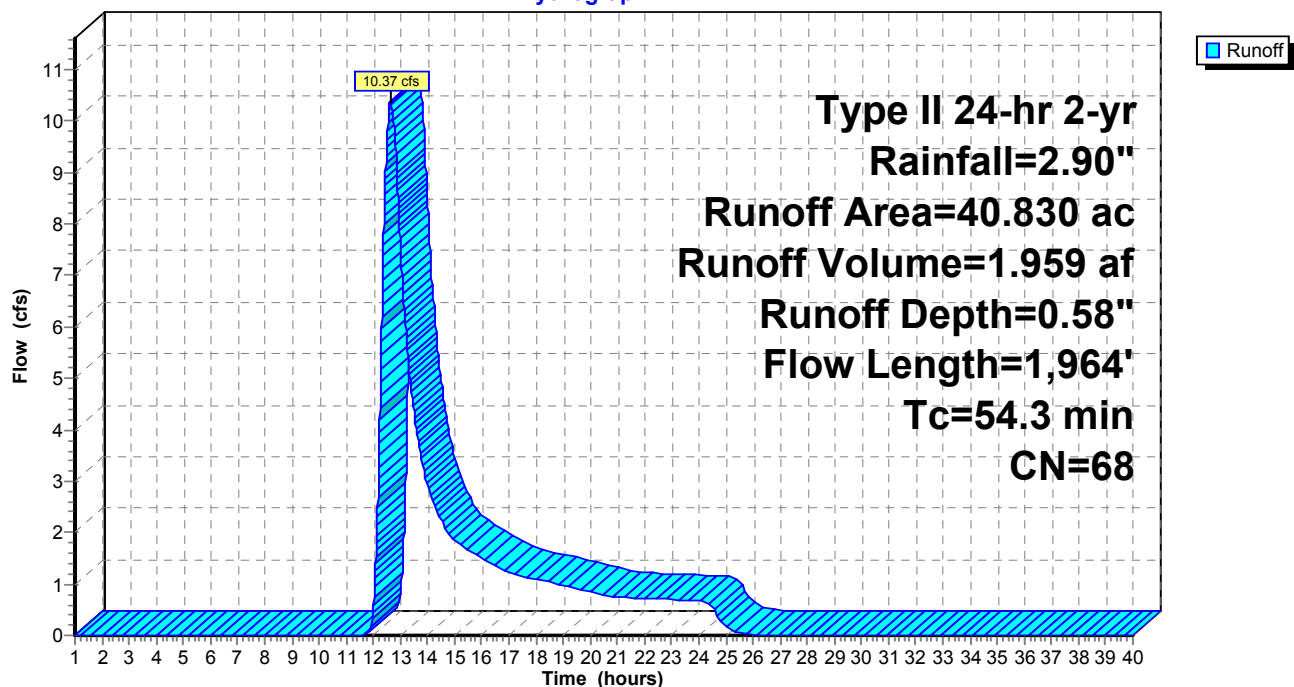
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
40.830	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.3	1,964	0.0200	0.6		Lag/CN Method,

Subcatchment W79: W79

Hydrograph



Subcatchment W80: W80

Runoff = 50.48 cfs @ 12.32 hrs, Volume= 5.660 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

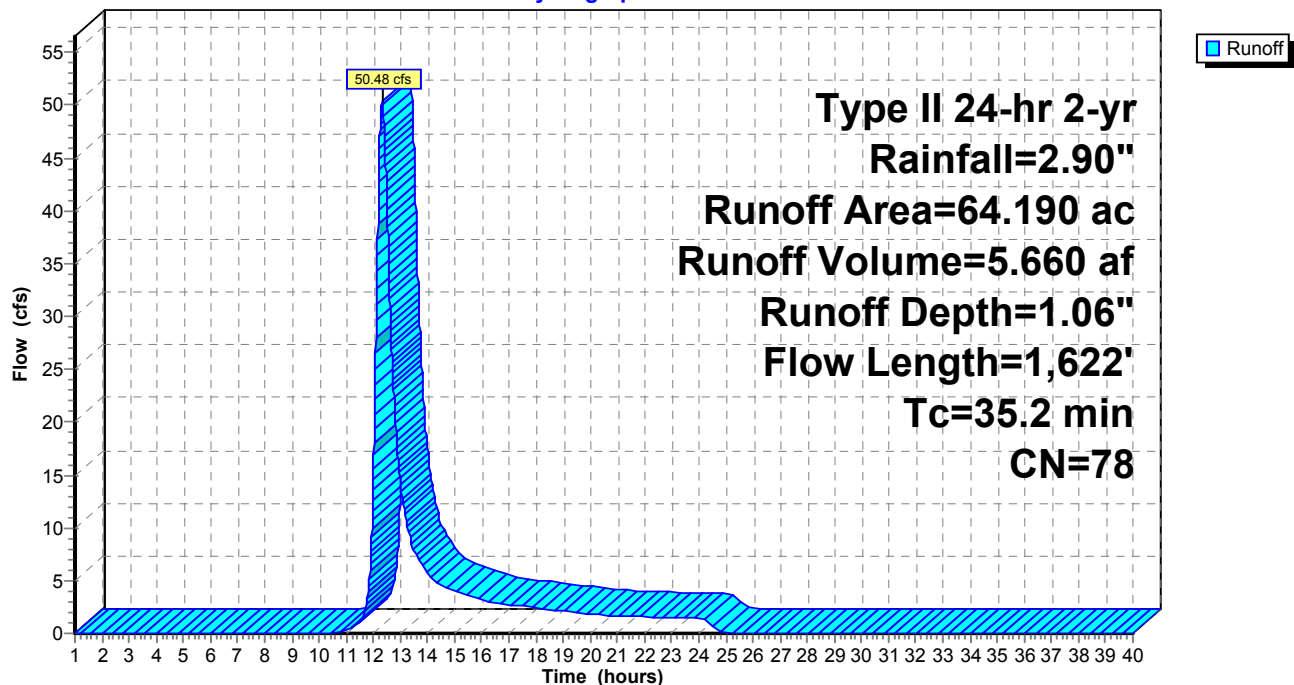
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
64.190	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.2	1,622	0.0200	0.8		Lag/CN Method,

Subcatchment W80: W80

Hydrograph



Subcatchment W81: W81

Runoff = 33.57 cfs @ 11.97 hrs, Volume= 1.602 af, Depth= 1.98"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

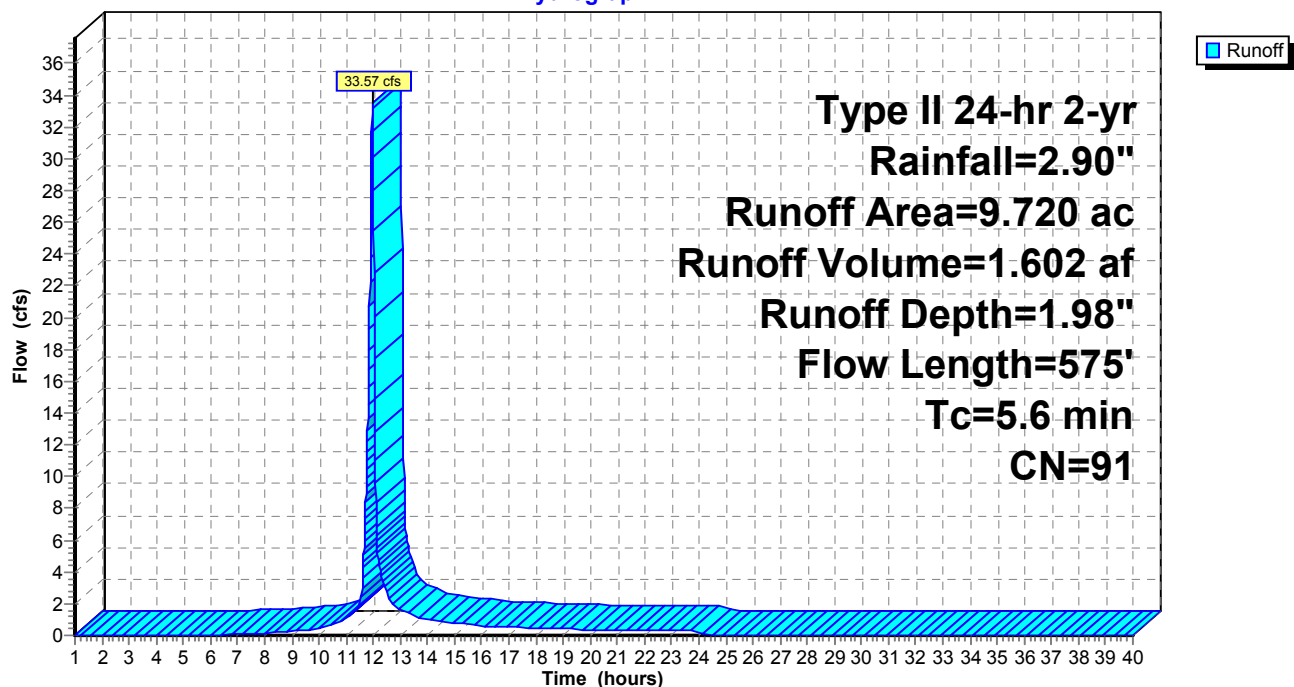
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.720	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	575	0.0600	1.7		Lag/CN Method,

Subcatchment W81: W81

Hydrograph



Subcatchment W82: W82

Runoff = 21.59 cfs @ 12.07 hrs, Volume= 1.392 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

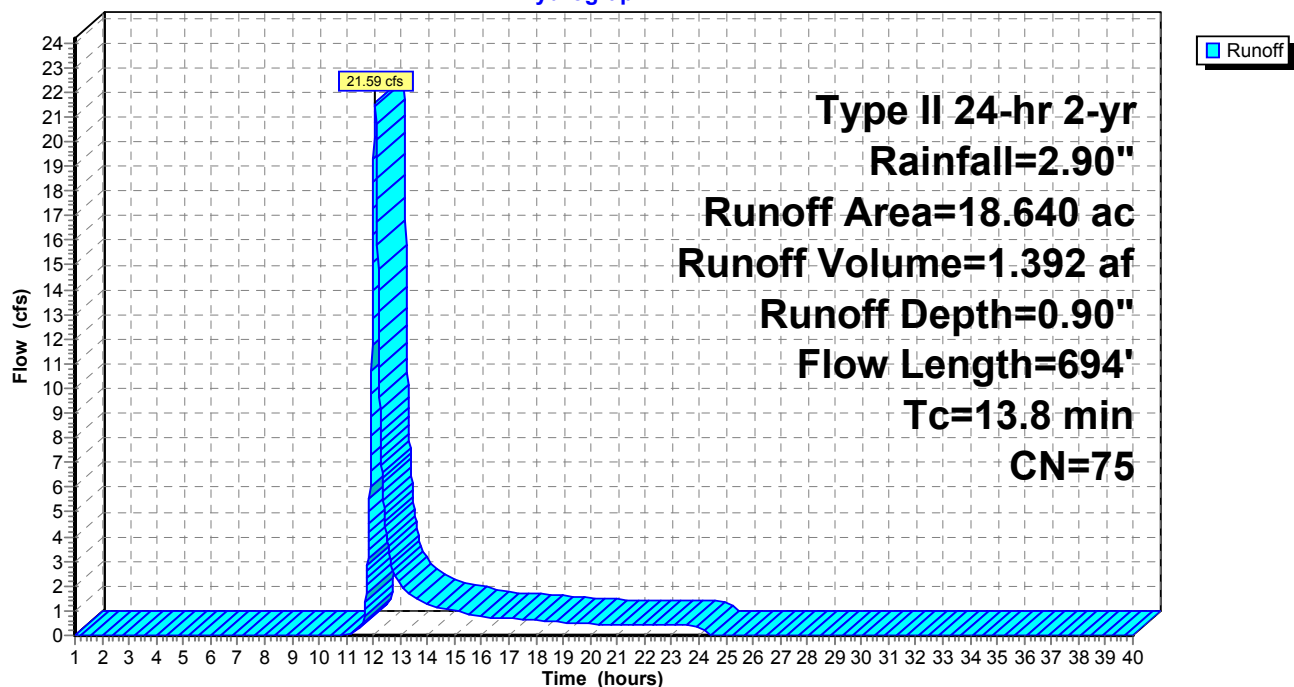
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.640	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	694	0.0400	0.8		Lag/CN Method,

Subcatchment W82: W82

Hydrograph



Subcatchment W83: W83

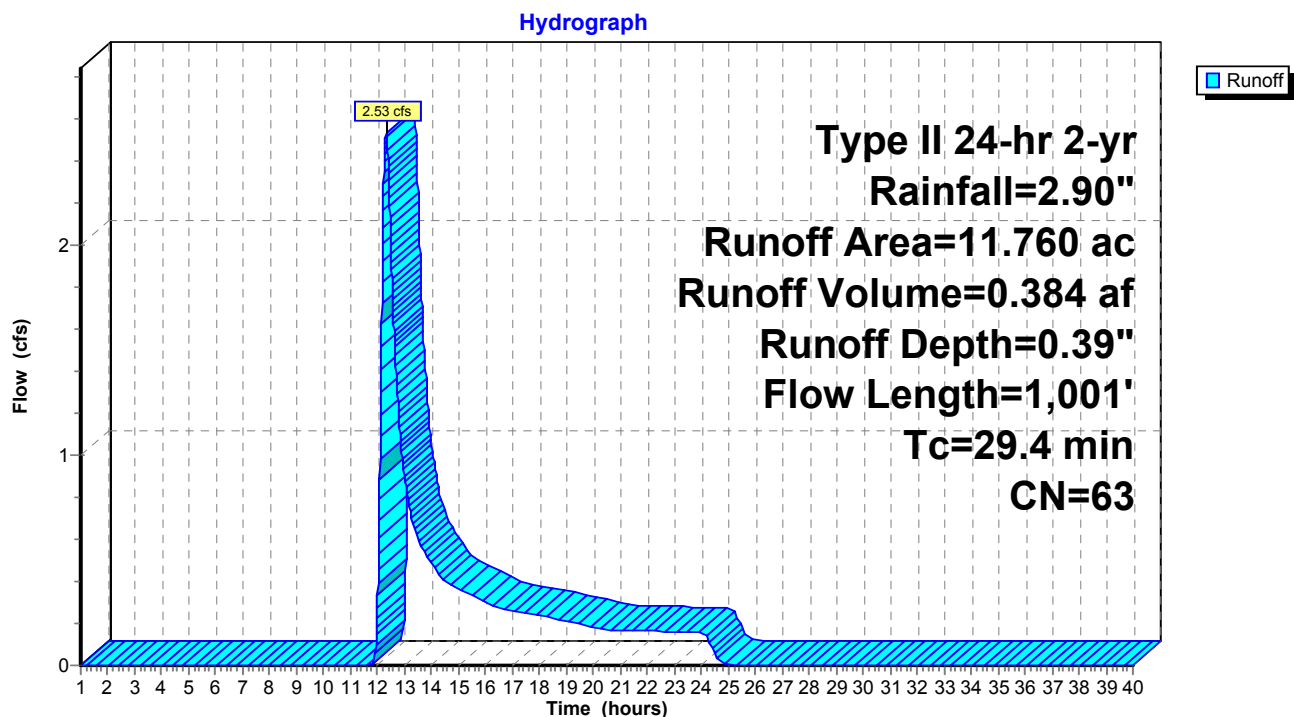
Runoff = 2.53 cfs @ 12.32 hrs, Volume= 0.384 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
11.760	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,001	0.0300	0.6		Lag/CN Method,

Subcatchment W83: W83

Subcatchment W84: W84

Runoff = 19.92 cfs @ 12.14 hrs, Volume= 1.522 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

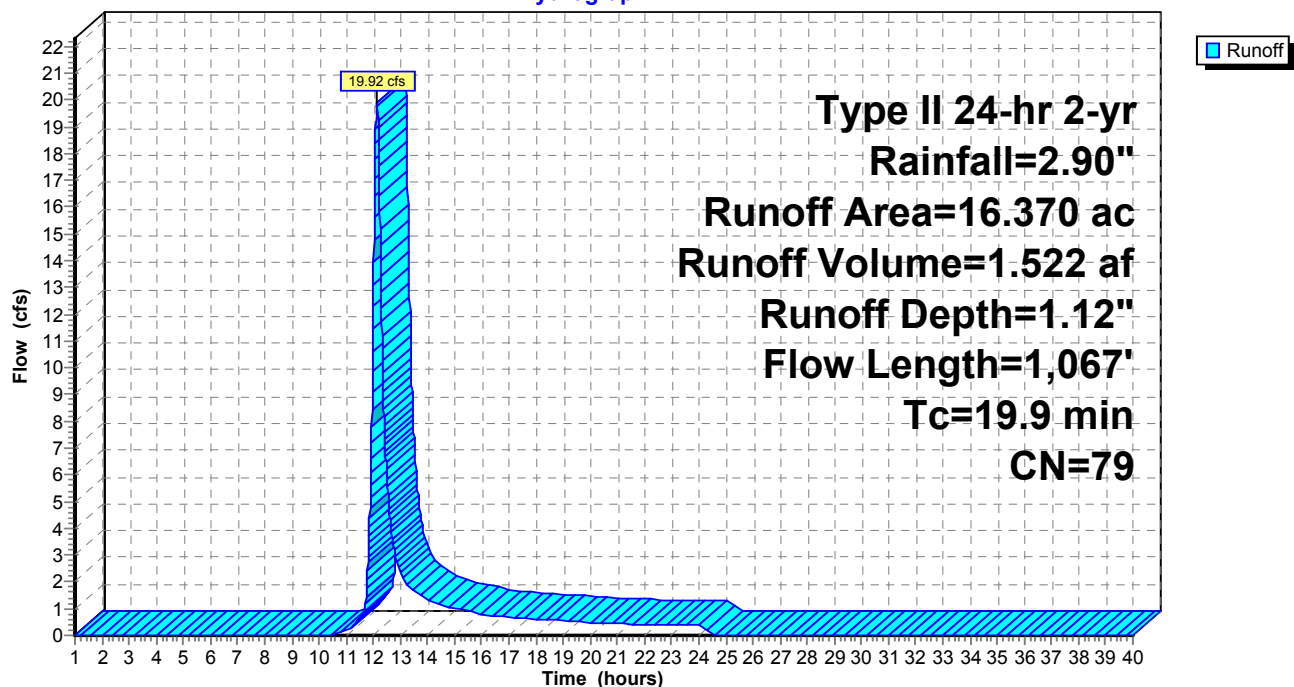
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
16.370	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,067	0.0300	0.9		Lag/CN Method,

Subcatchment W84: W84

Hydrograph



Subcatchment W85: W85

Runoff = 17.79 cfs @ 12.00 hrs, Volume= 0.928 af, Depth= 1.98"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

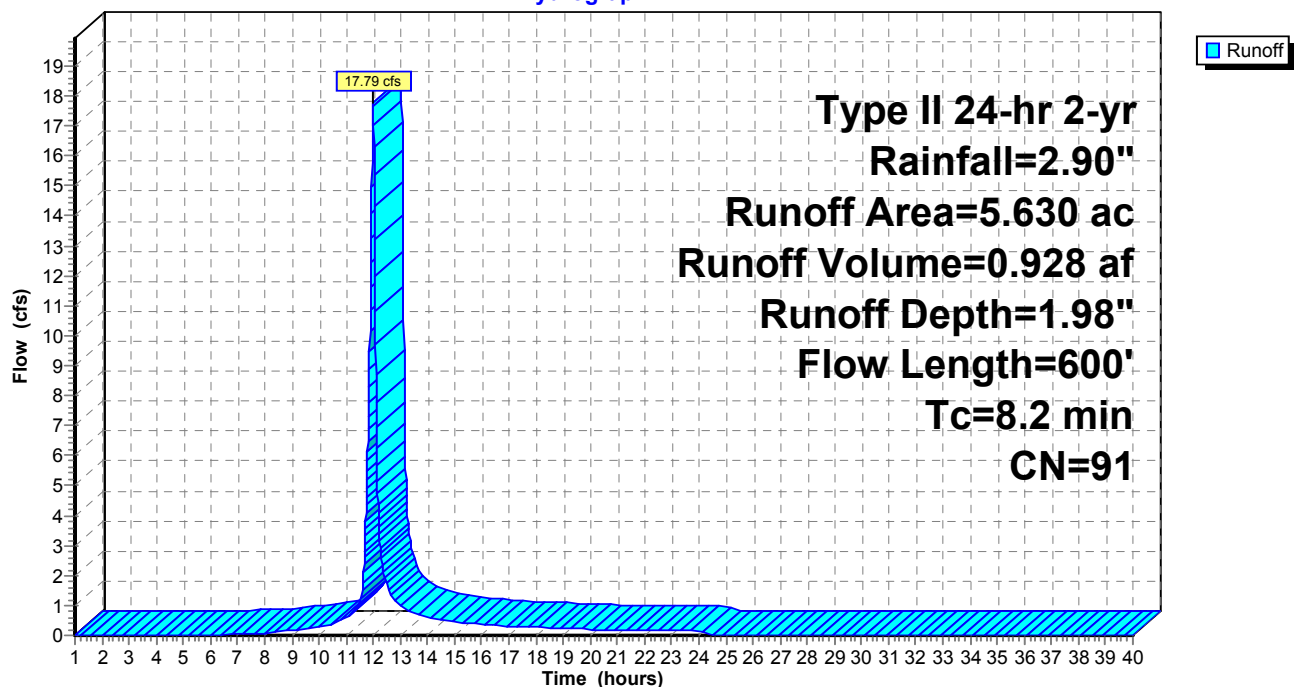
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
5.630	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	600	0.0300	1.2		Lag/CN Method,

Subcatchment W85: W85

Hydrograph



Subcatchment W86: W86

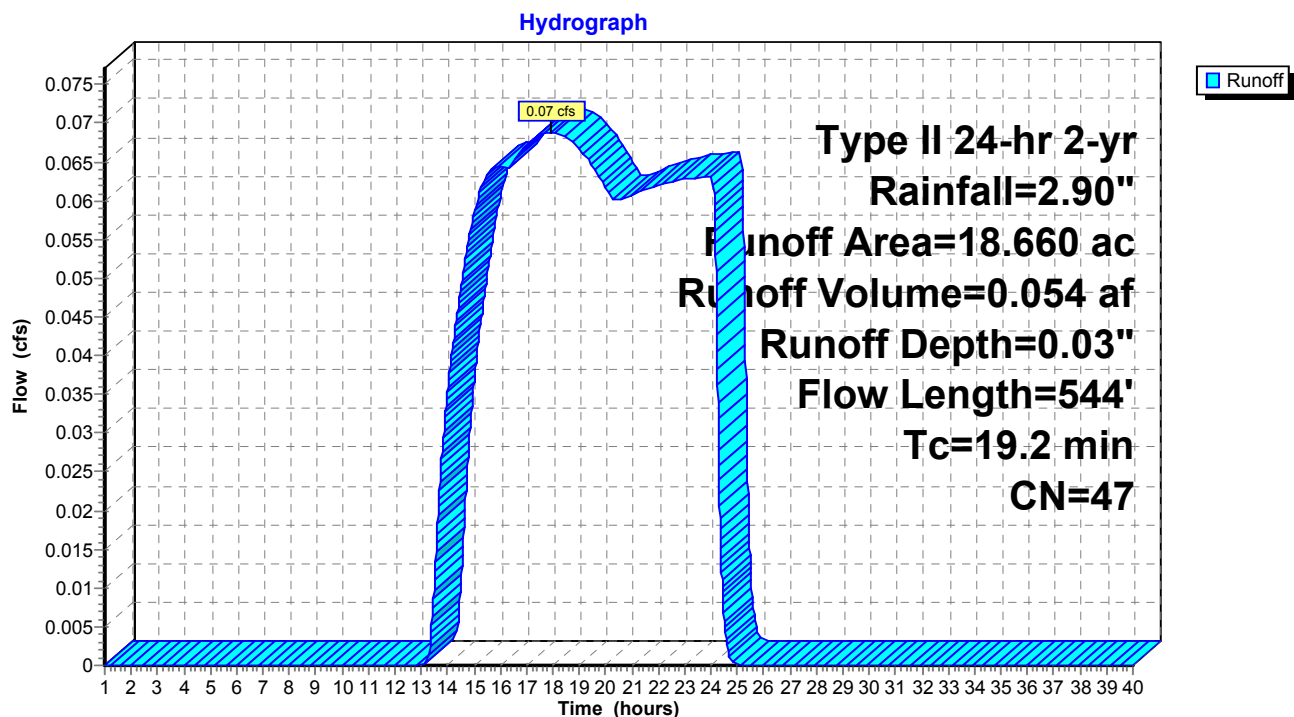
Runoff = 0.07 cfs @ 17.94 hrs, Volume= 0.054 af, Depth= 0.03"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
18.660	47	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	544	0.0600	0.5		Lag/CN Method,

Subcatchment W86: W86

Subcatchment W87: W87

Runoff = 0.71 cfs @ 12.20 hrs, Volume= 0.125 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

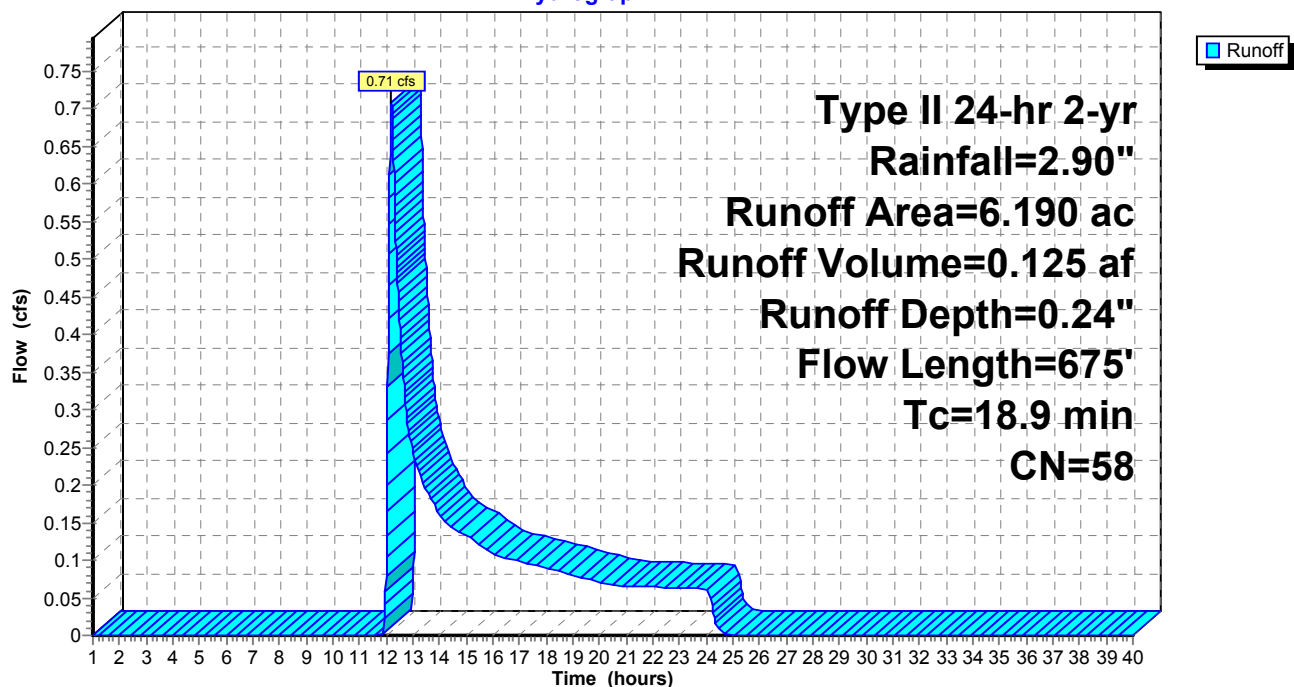
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
6.190	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.9	675	0.0500	0.6		Lag/CN Method,

Subcatchment W87: W87

Hydrograph



Subcatchment W88: W88

Runoff = 0.94 cfs @ 12.26 hrs, Volume= 0.286 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

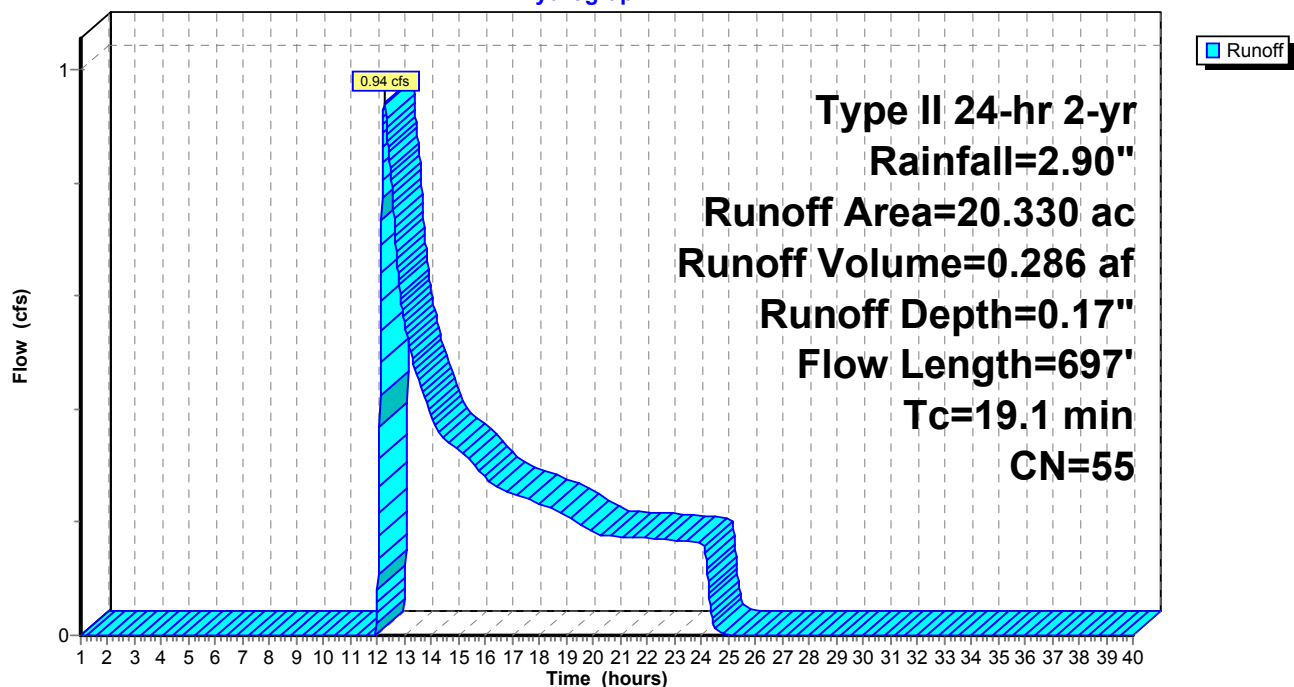
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
20.330	55	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	697	0.0600	0.6		Lag/CN Method,

Subcatchment W88: W88

Hydrograph



Subcatchment W89: W89

Runoff = 25.48 cfs @ 12.56 hrs, Volume= 3.959 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

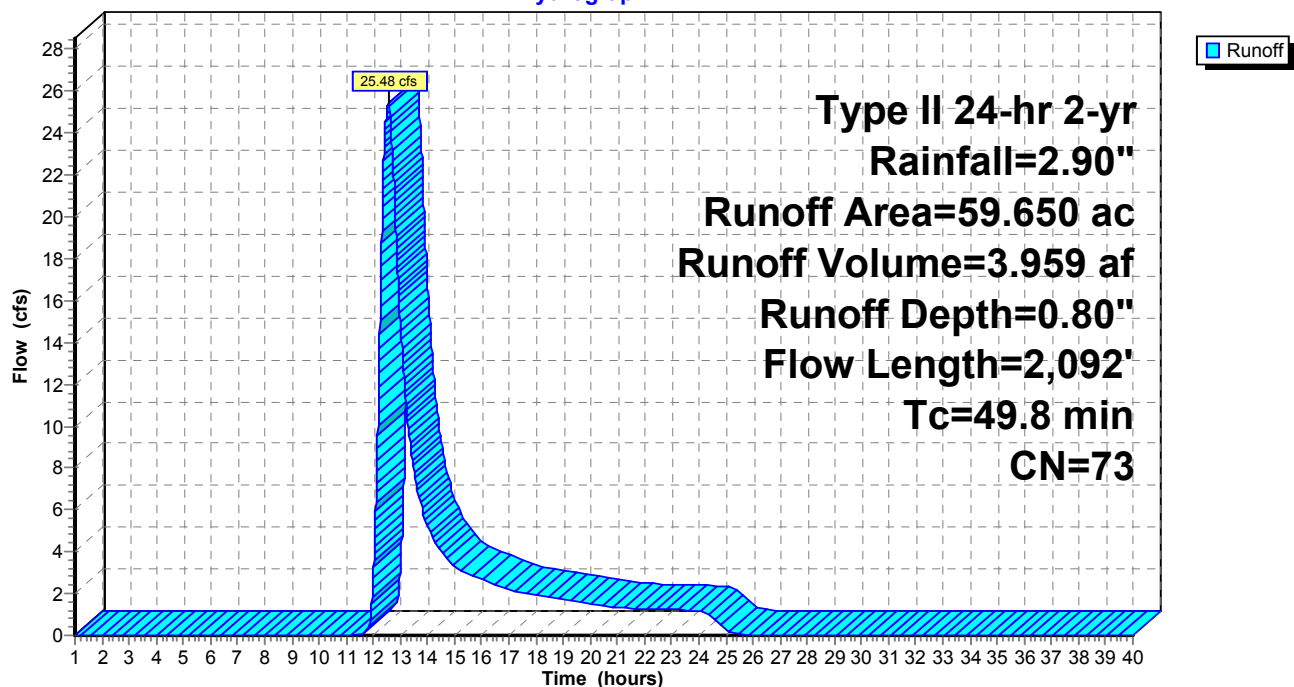
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
59.650	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	2,092	0.0200	0.7		Lag/CN Method,

Subcatchment W89: W89

Hydrograph



Subcatchment W90: W90

Runoff = 16.81 cfs @ 13.28 hrs, Volume= 4.828 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

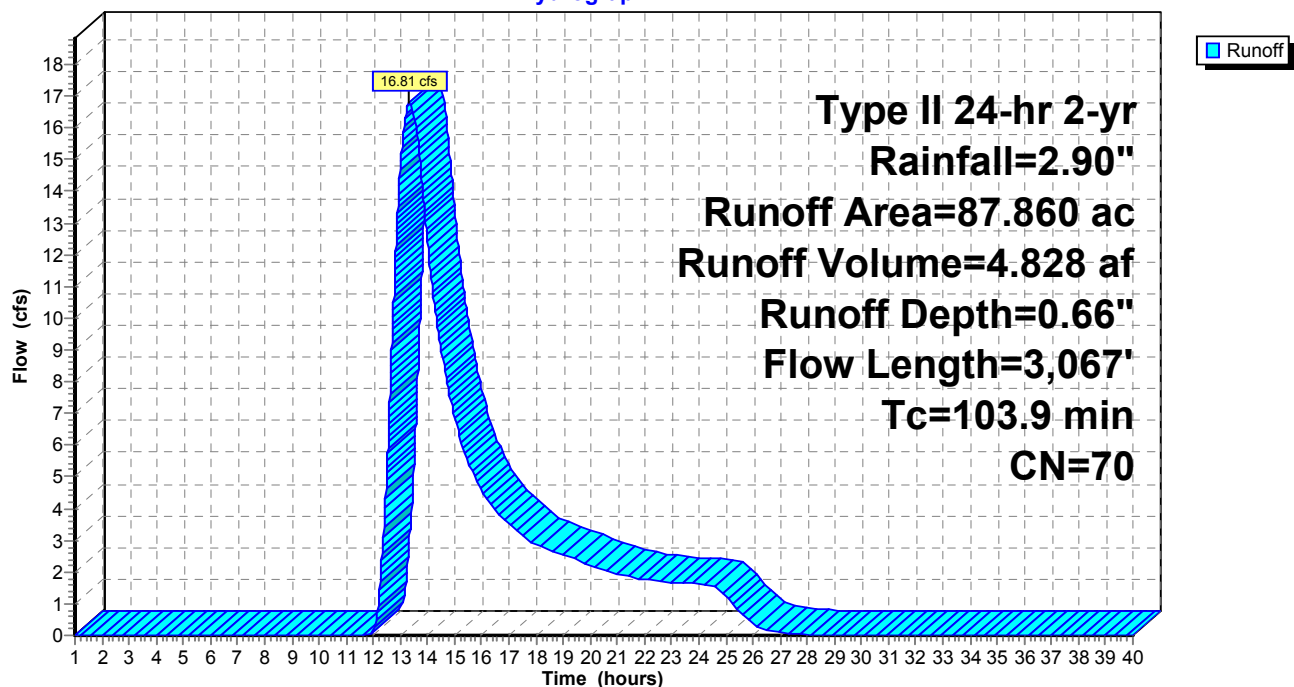
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
87.860	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
103.9	3,067	0.0100	0.5		Lag/CN Method,

Subcatchment W90: W90

Hydrograph



Subcatchment W91: W91

Runoff = 14.46 cfs @ 12.50 hrs, Volume= 2.069 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

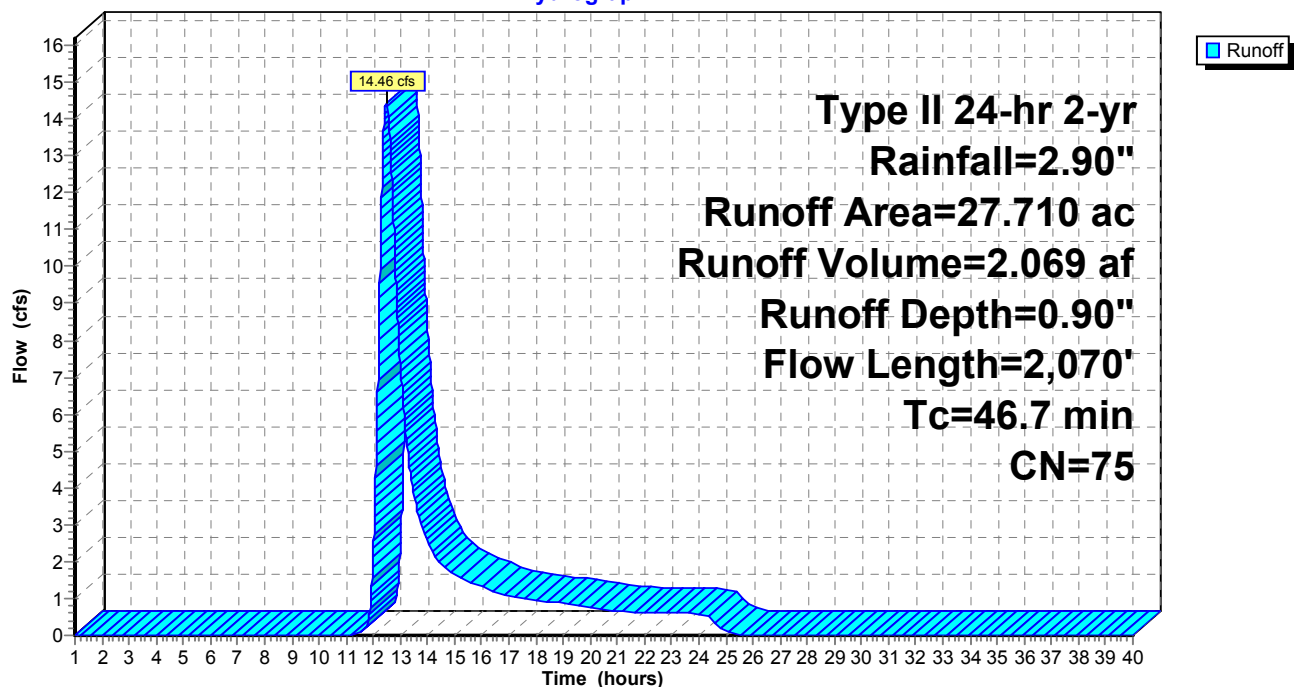
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
27.710	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	2,070	0.0200	0.7		Lag/CN Method,

Subcatchment W91: W91

Hydrograph



Subcatchment W92: W92

Runoff = 13.78 cfs @ 12.26 hrs, Volume= 1.506 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

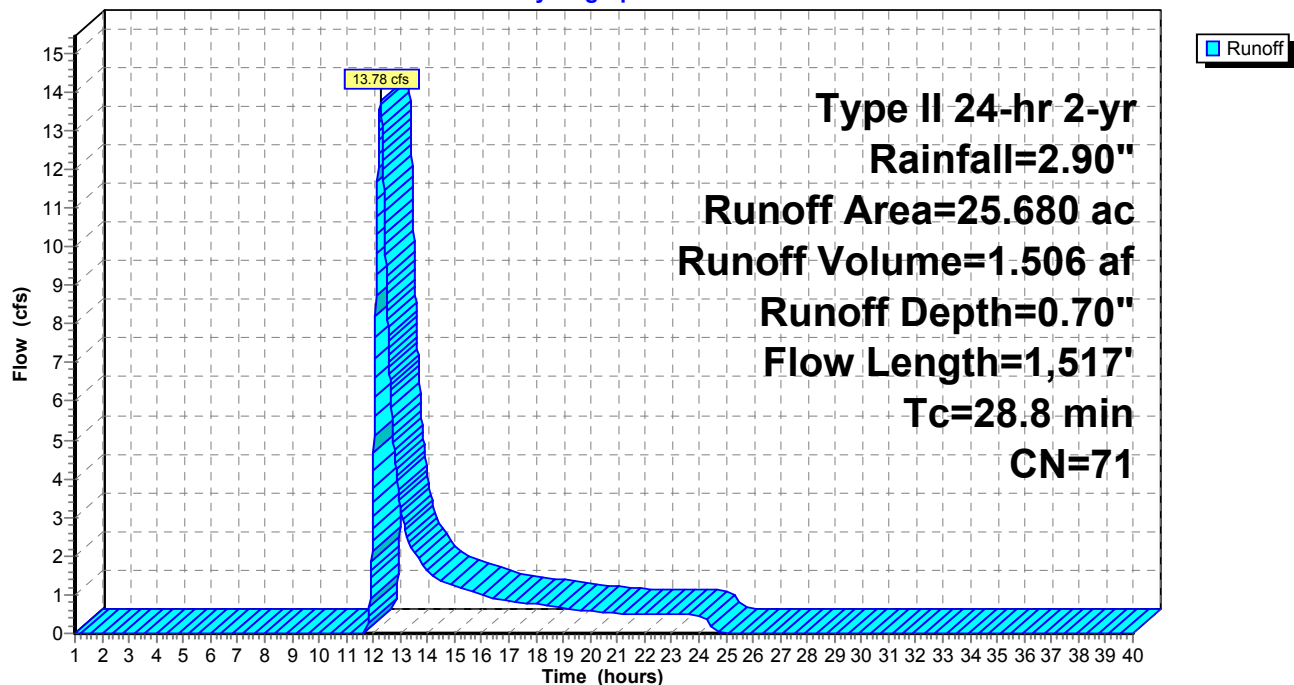
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
25.680	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	1,517	0.0400	0.9		Lag/CN Method,

Subcatchment W92: W92

Hydrograph



Subcatchment W93: W93

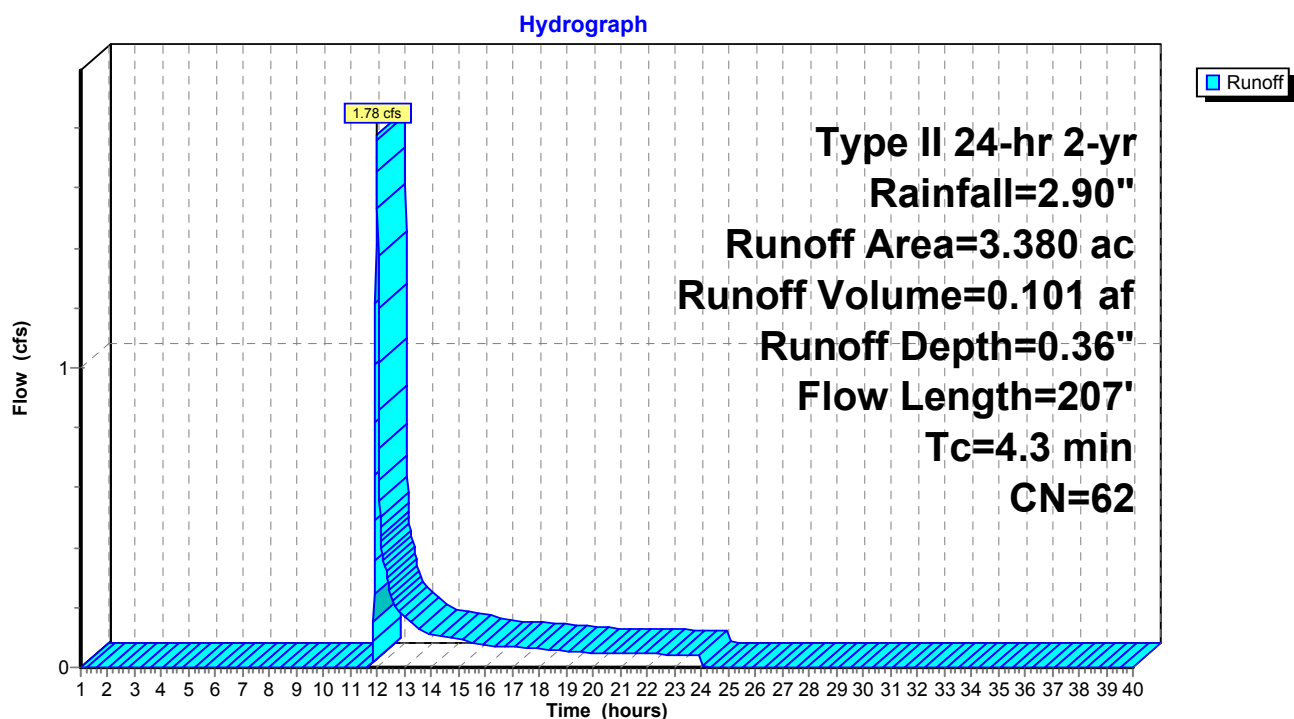
Runoff = 1.78 cfs @ 11.98 hrs, Volume= 0.101 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
3.380	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	207	0.1200	0.8		Lag/CN Method,

Subcatchment W93: W93

Subcatchment W94: W94

Runoff = 4.56 cfs @ 12.64 hrs, Volume= 0.994 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

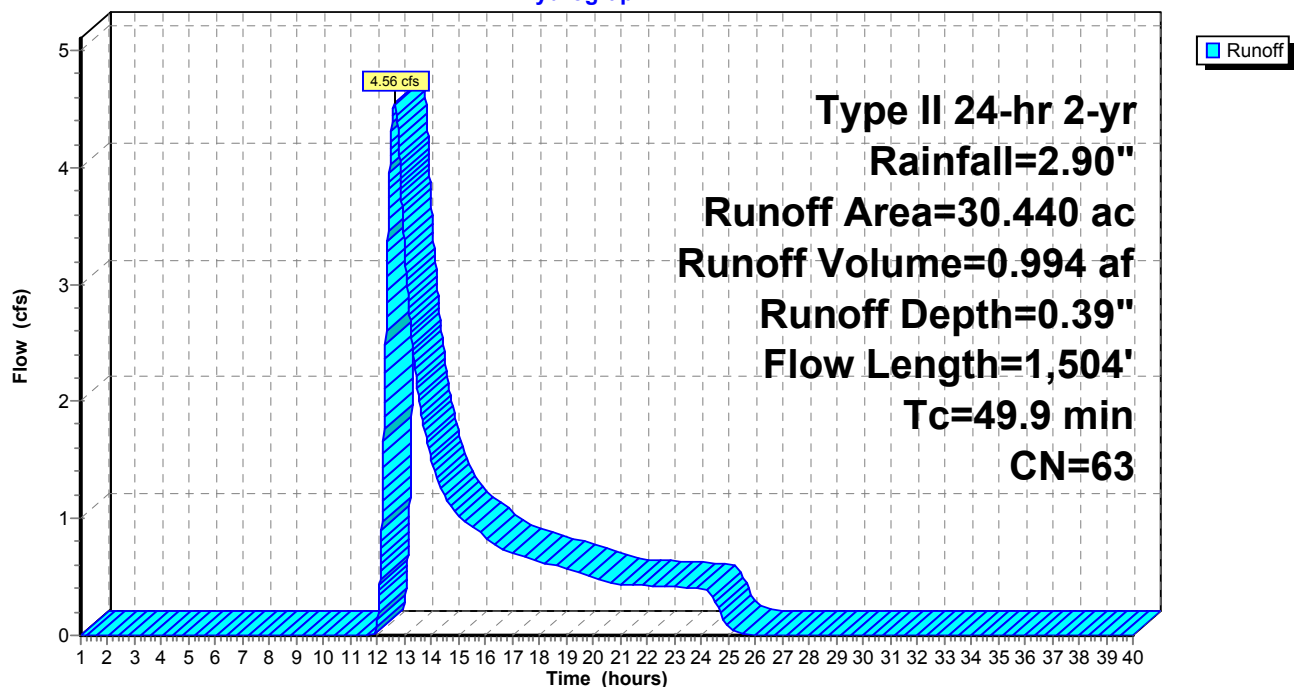
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
30.440	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.9	1,504	0.0200	0.5		Lag/CN Method,

Subcatchment W94: W94

Hydrograph



Subcatchment W95: W95

Runoff = 0.02 cfs @ 24.02 hrs, Volume= 0.012 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

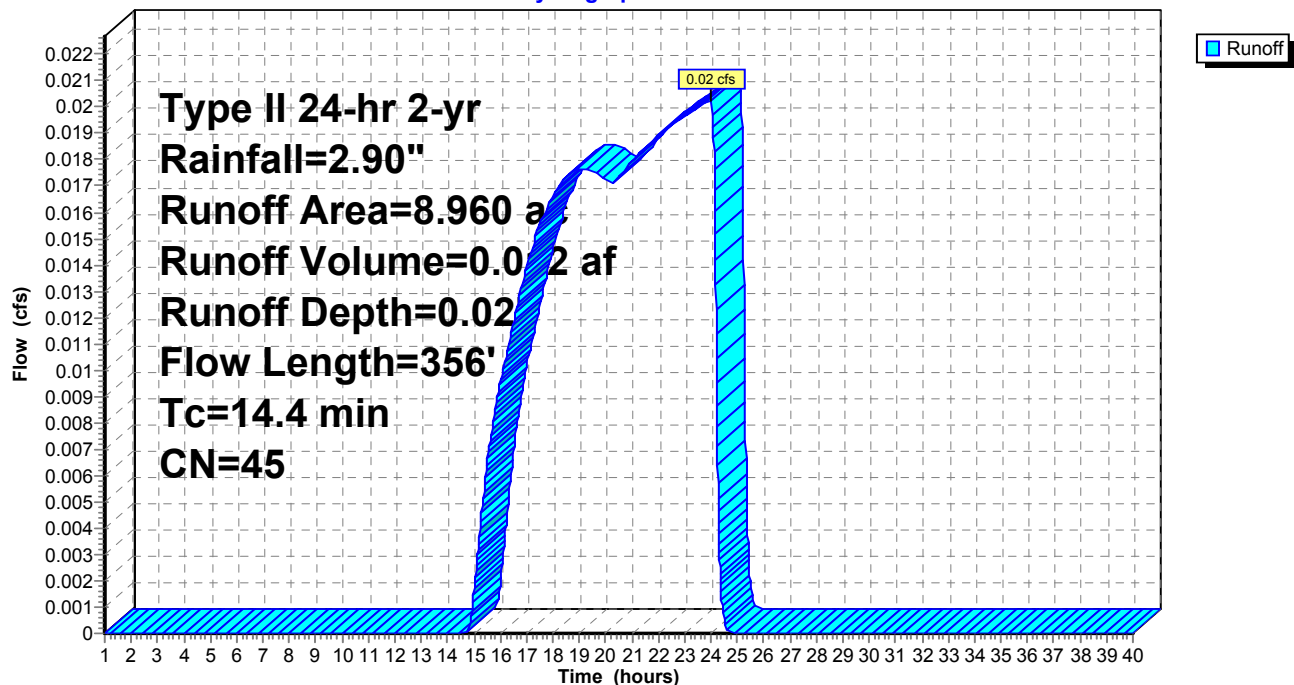
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
8.960	45	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.4	356	0.0600	0.4		Lag/CN Method,

Subcatchment W95: W95

Hydrograph



Subcatchment W96: W96

Runoff = 14.08 cfs @ 12.17 hrs, Volume= 1.184 af, Depth= 1.18"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

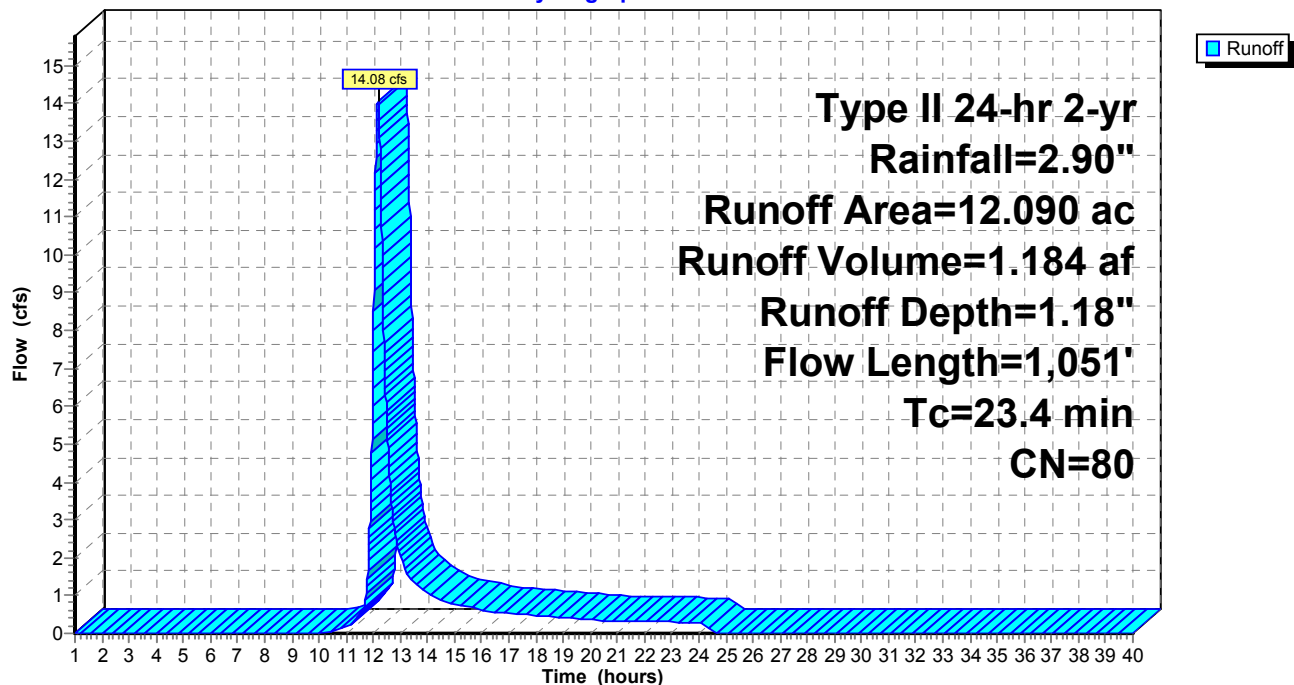
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
12.090	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,051	0.0200	0.7		Lag/CN Method,

Subcatchment W96: W96

Hydrograph



Subcatchment W97: W97

Runoff = 7.72 cfs @ 12.02 hrs, Volume= 0.438 af, Depth= 0.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

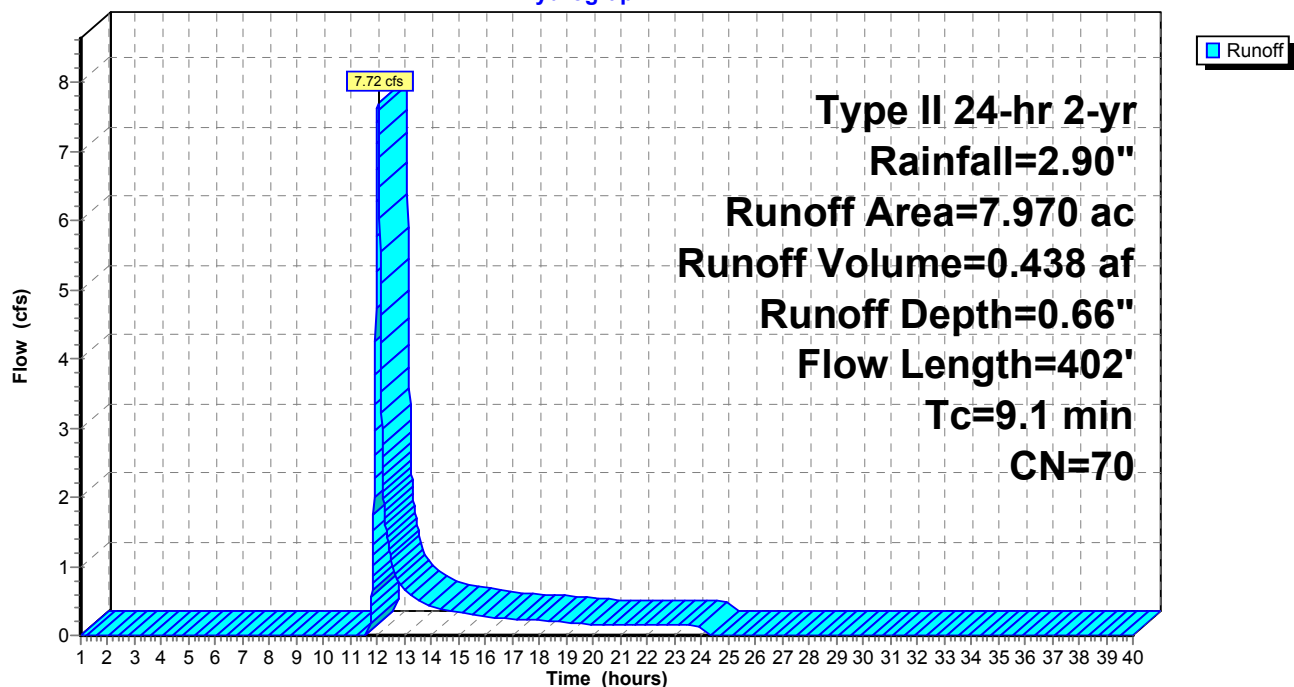
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
7.970	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	402	0.0500	0.7		Lag/CN Method,

Subcatchment W97: W97

Hydrograph



Subcatchment W98: W98

Runoff = 1.40 cfs @ 12.28 hrs, Volume= 0.239 af, Depth= 0.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

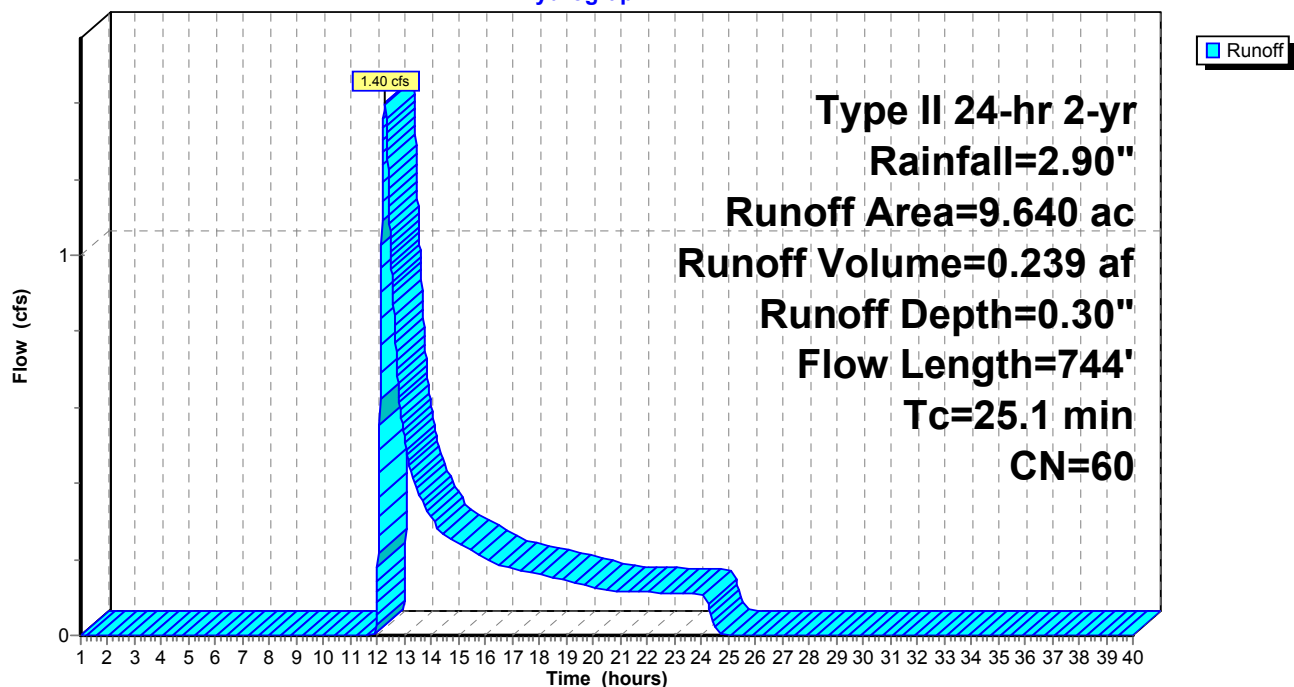
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
9.640	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	744	0.0300	0.5		Lag/CN Method,

Subcatchment W98: W98

Hydrograph



Subcatchment W99: W99

Runoff = 2.85 cfs @ 12.01 hrs, Volume= 0.164 af, Depth= 0.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

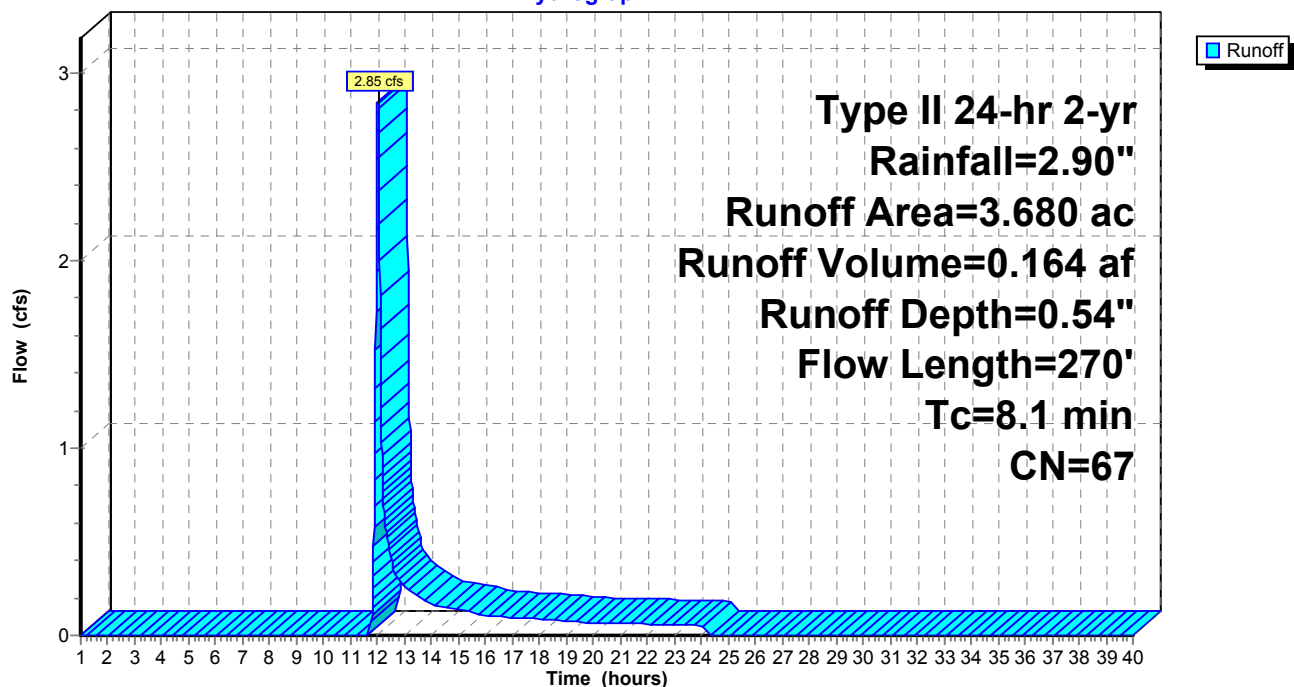
Type II 24-hr 2-yr Rainfall=2.90"

Area (ac)	CN	Description
3.680	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	270	0.0400	0.6		Lag/CN Method,

Subcatchment W99: W99

Hydrograph



Reach 4R: (new Reach)

Inflow Area = 47.571 ac, Inflow Depth > 0.27" for 2-yr event
 Inflow = 0.65 cfs @ 24.08 hrs, Volume= 1.056 af
 Outflow = 0.64 cfs @ 24.13 hrs, Volume= 1.049 af, Atten= 0%, Lag= 3.5 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.1 fps, Min. Travel Time= 14.8 min

Avg. Velocity = 0.9 fps, Avg. Travel Time= 16.9 min

Peak Depth= 0.11' @ 24.13 hrs

Capacity at bank full= 1,161.31 cfs

Inlet Invert= 980.00', Outlet Invert= 968.00'

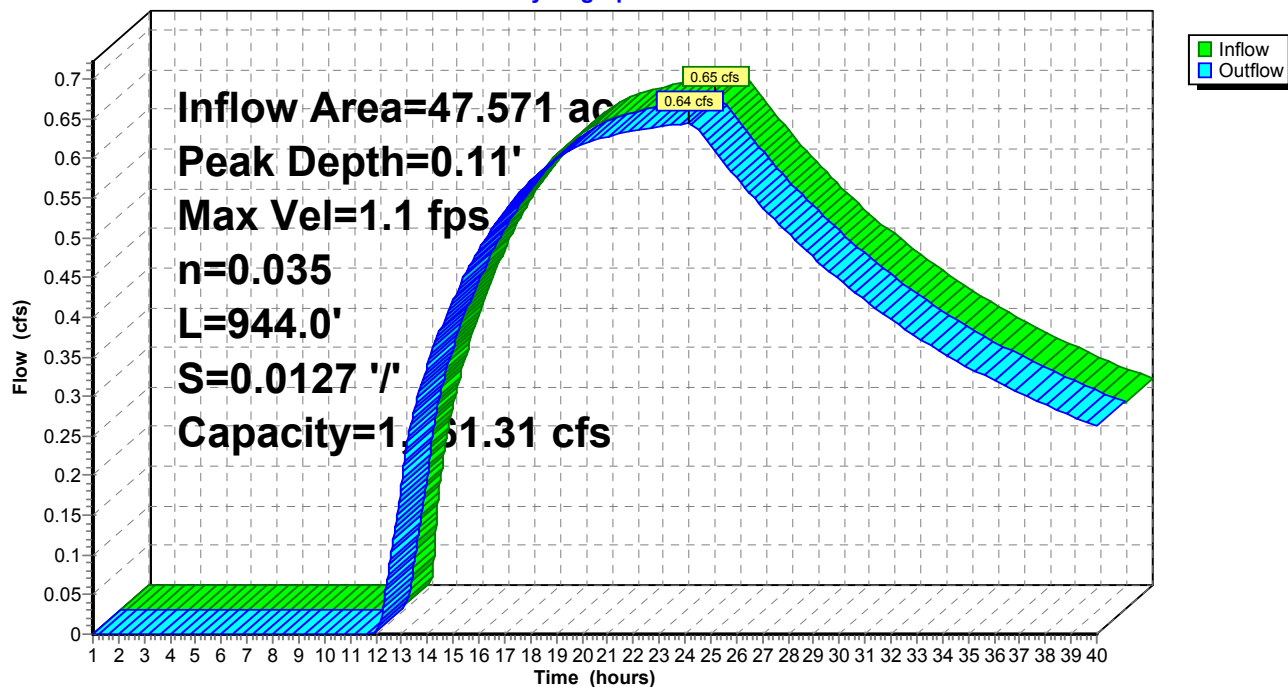
5.00' x 5.00' deep channel, n= 0.035 Earth, dense weeds

Side Slope Z-value= 4.0 ' ' Top Width= 45.00'

Length= 944.0' Slope= 0.0127 ' '

Reach 4R: (new Reach)

Hydrograph



Reach 6R: (new Reach)

Inflow Area = 18.570 ac, Inflow Depth = 0.98" for 2-yr event
Inflow = 55.24 cfs @ 11.95 hrs, Volume= 1.519 af
Outflow = 35.21 cfs @ 11.99 hrs, Volume= 1.519 af, Atten= 36%, Lag= 2.1 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.9 fps, Min. Travel Time= 2.9 min

Avg. Velocity = 0.9 fps, Avg. Travel Time= 9.4 min

Peak Depth= 1.27' @ 11.99 hrs

Capacity at bank full= 20.54 cfs

Inlet Invert= 1,108.00', Outlet Invert= 1,070.00'

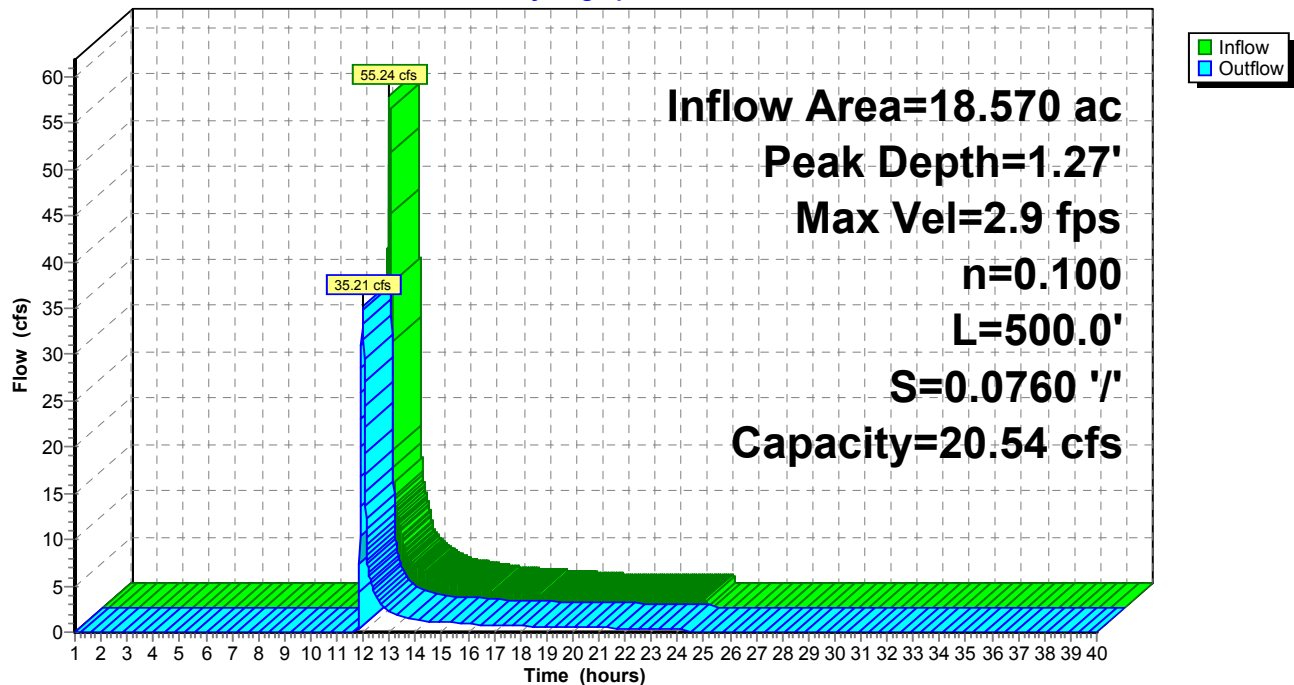
0.00' x 1.00' deep channel, n= 0.100 Earth, dense brush, high stage

Side Slope Z-value= 8.0 '/' Top Width= 16.00'

Length= 500.0' Slope= 0.0760 '/'

Reach 6R: (new Reach)

Hydrograph



Reach A1R: A1R

Inflow Area = 36.474 ac, Inflow Depth > 0.28" for 2-yr event
 Inflow = 0.55 cfs @ 24.20 hrs, Volume= 0.848 af
 Outflow = 0.55 cfs @ 24.27 hrs, Volume= 0.844 af, Atten= 0%, Lag= 4.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.8 fps, Min. Travel Time= 9.3 min

Avg. Velocity = 1.5 fps, Avg. Travel Time= 11.0 min

Peak Depth= 0.10' @ 24.27 hrs

Capacity at bank full= 330.73 cfs

Inlet Invert= 1,092.50', Outlet Invert= 1,061.00'

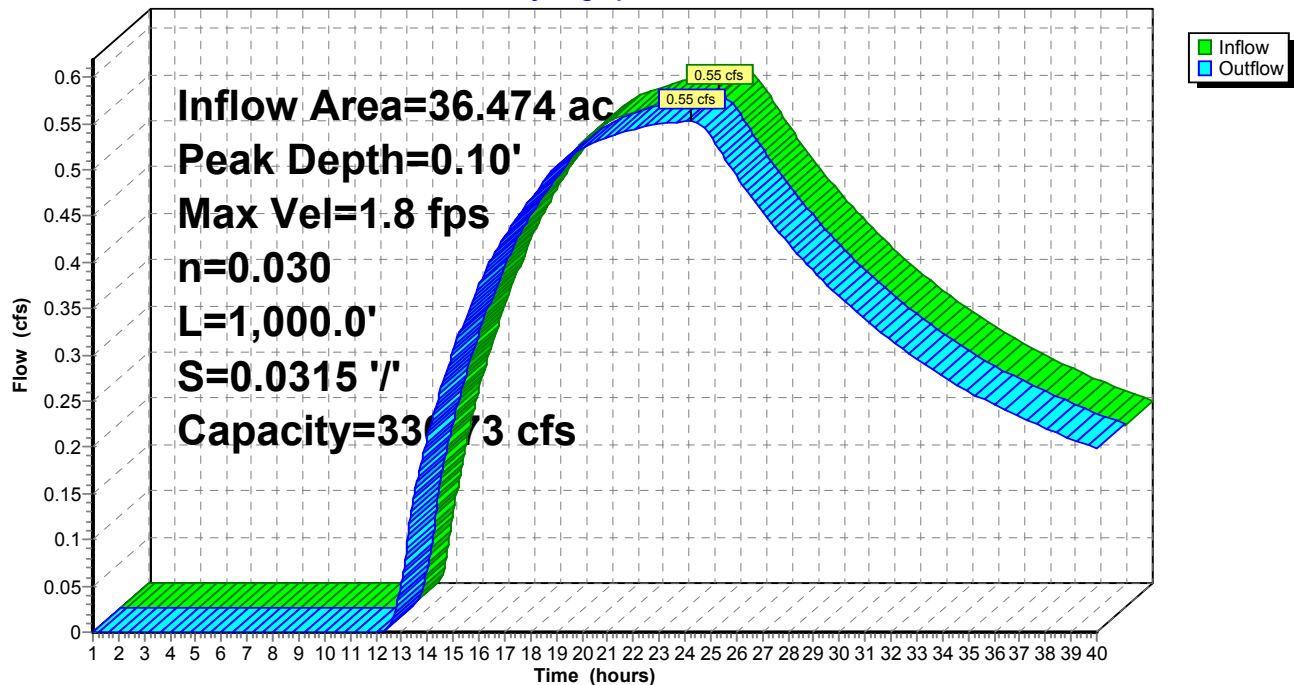
3.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 15.00'

Length= 1,000.0' Slope= 0.0315 '/'

Reach A1R: A1R

Hydrograph



Reach A4R: A4R

Inflow Area = 34.000 ac, Inflow Depth > 0.25" for 2-yr event
Inflow = 0.42 cfs @ 24.39 hrs, Volume= 0.708 af
Outflow = 0.42 cfs @ 24.54 hrs, Volume= 0.701 af, Atten= 0%, Lag= 8.9 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.4 fps, Min. Travel Time= 17.5 min

Avg. Velocity = 1.3 fps, Avg. Travel Time= 19.8 min

Peak Depth= 0.13' @ 24.54 hrs

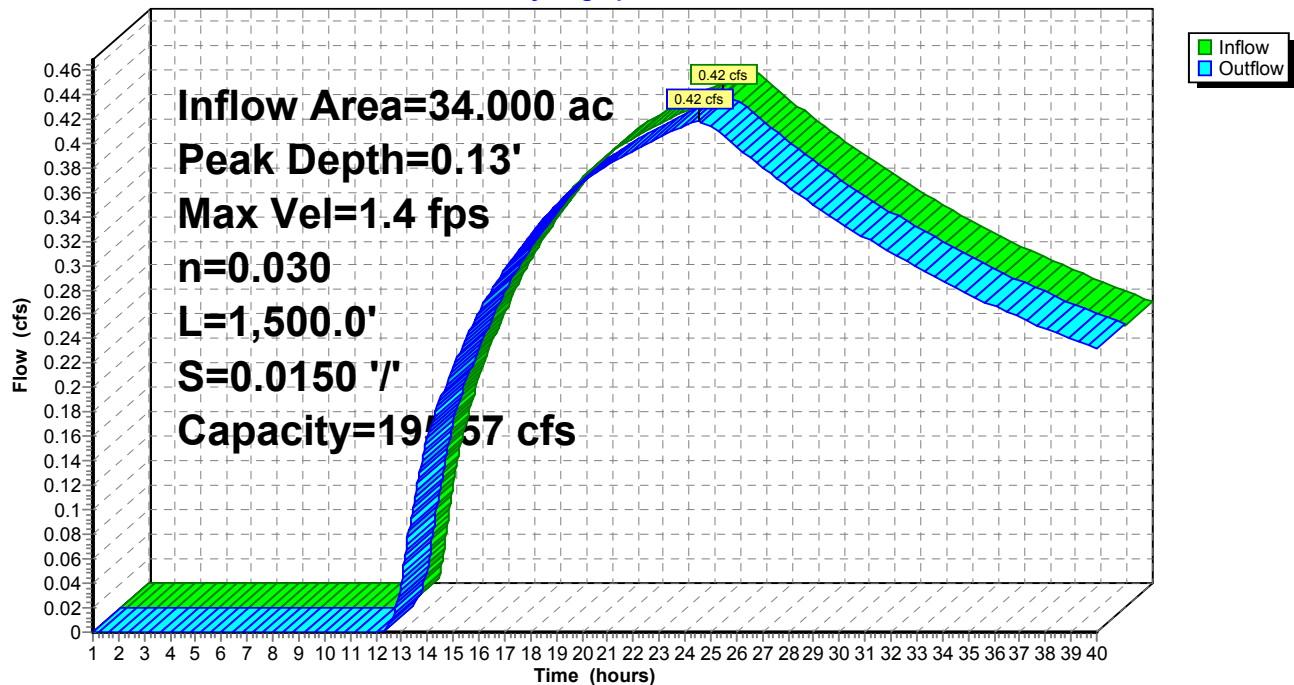
Capacity at bank full= 195.57 cfs

Inlet Invert= 1,083.50', Outlet Invert= 1,061.00'

2.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 14.00'

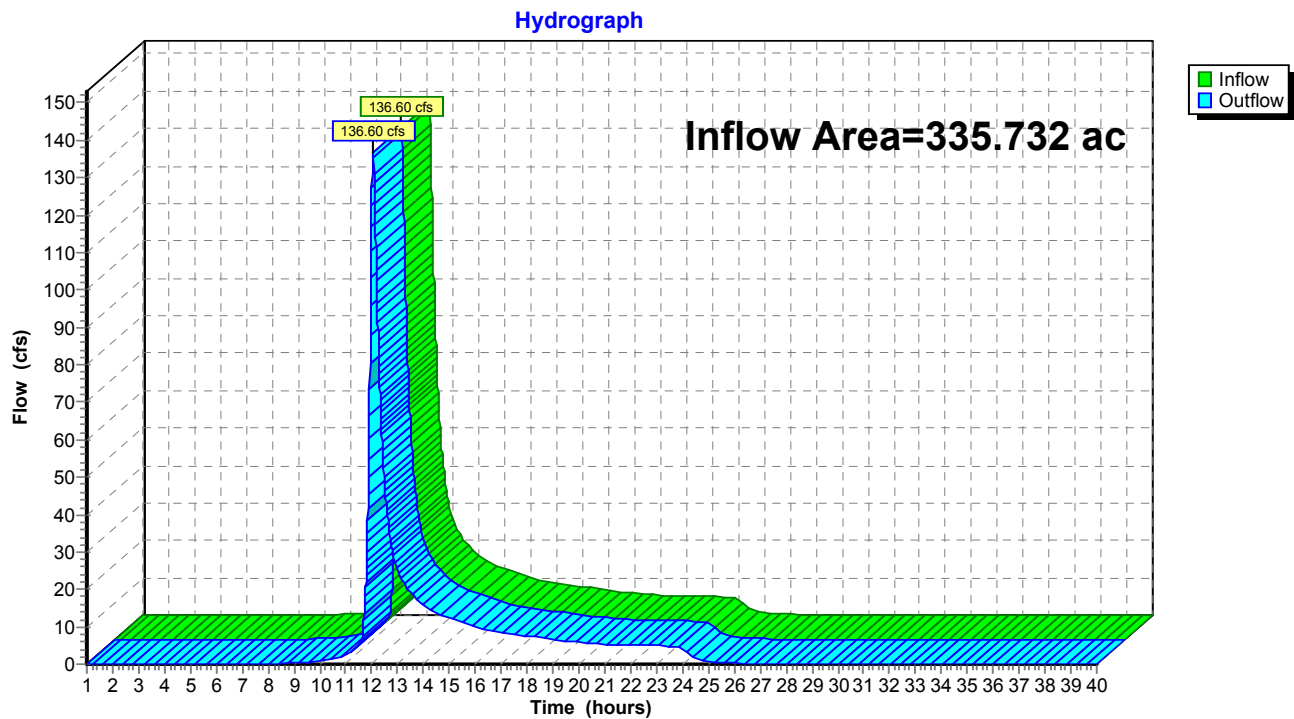
Length= 1,500.0' Slope= 0.0150 '/'

Reach A4R: A4R**Hydrograph**

Reach Apple River 1: Apple River-Above Dam

Inflow Area = 335.732 ac, Inflow Depth = 0.54" for 2-yr event
Inflow = 136.60 cfs @ 12.04 hrs, Volume= 15.031 af
Outflow = 136.60 cfs @ 12.04 hrs, Volume= 15.031 af, Atten= 0%, Lag= 0.0 min

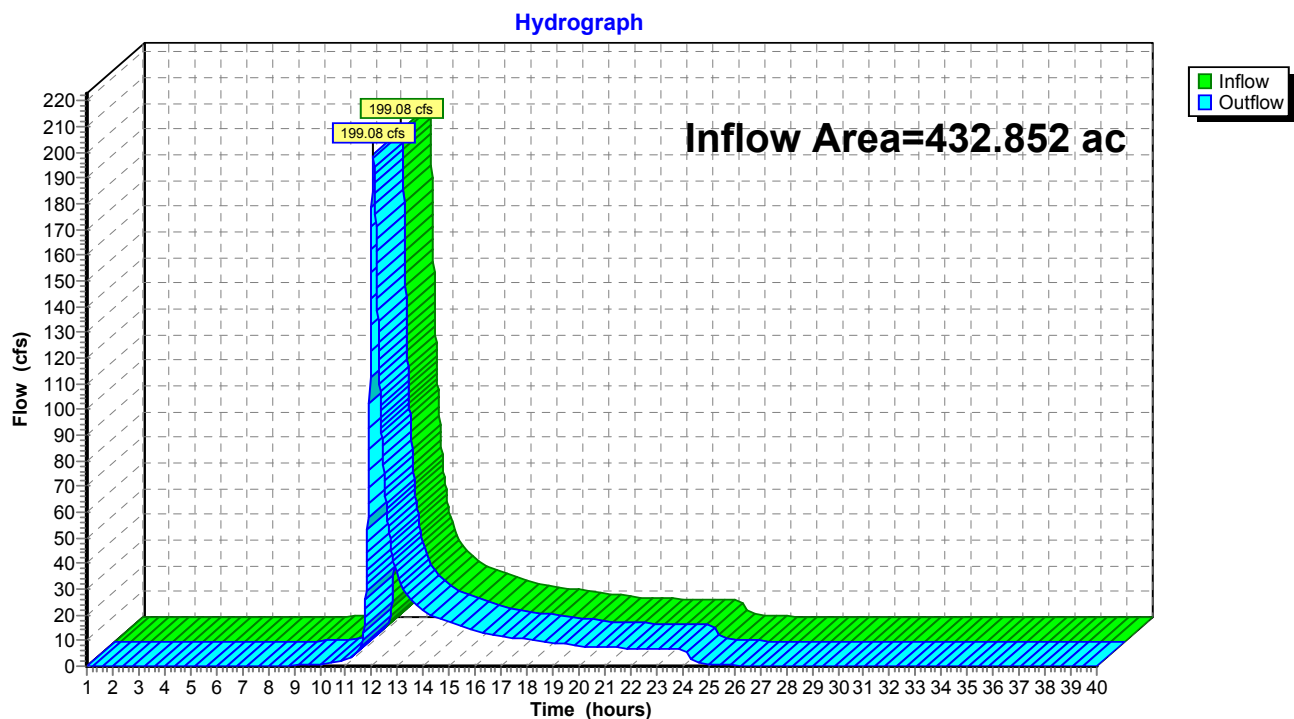
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 1: Apple River-Above Dam

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Inflow Area = 432.852 ac, Inflow Depth = 0.58" for 2-yr event
Inflow = 199.08 cfs @ 12.07 hrs, Volume= 21.027 af
Outflow = 199.08 cfs @ 12.07 hrs, Volume= 21.027 af, Atten= 0%, Lag= 0.0 min

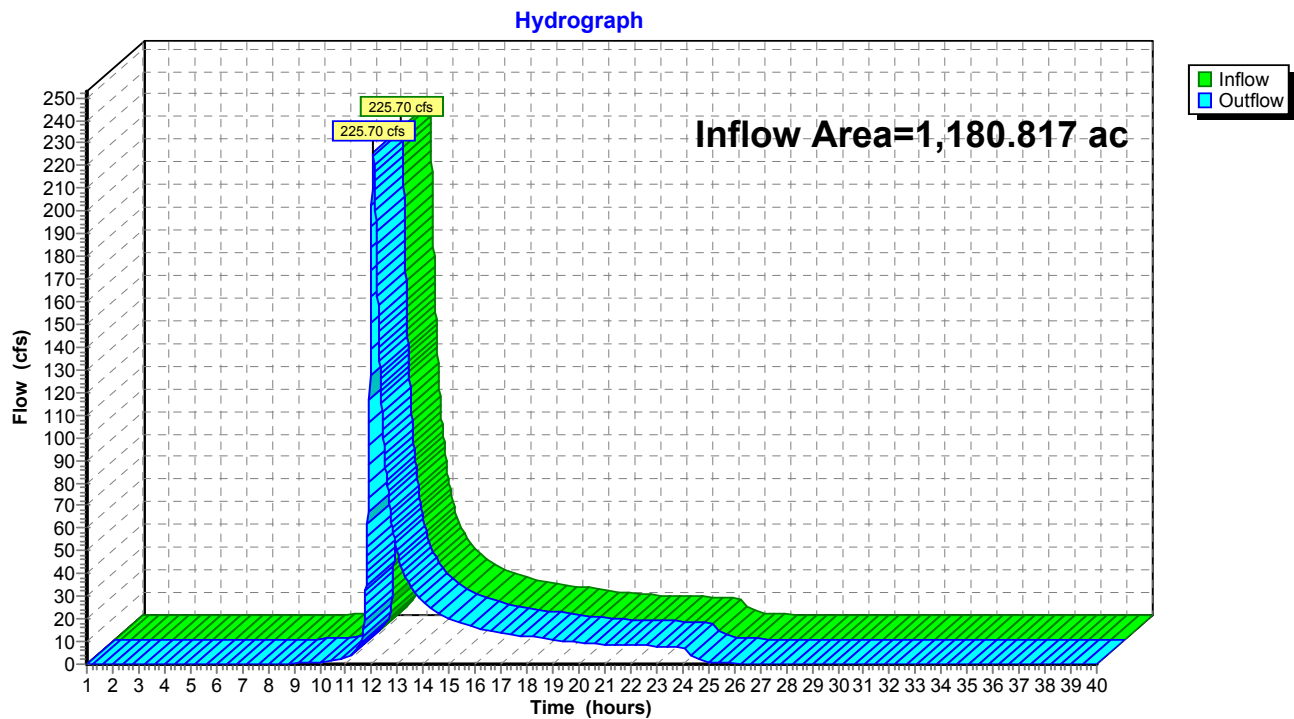
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Reach Apple River 3: Apple River - At South Twin Outlet

Inflow Area = 1,180.817 ac, Inflow Depth > 0.26" for 2-yr event
Inflow = 225.70 cfs @ 12.07 hrs, Volume= 25.708 af
Outflow = 225.70 cfs @ 12.07 hrs, Volume= 25.708 af, Atten= 0%, Lag= 0.0 min

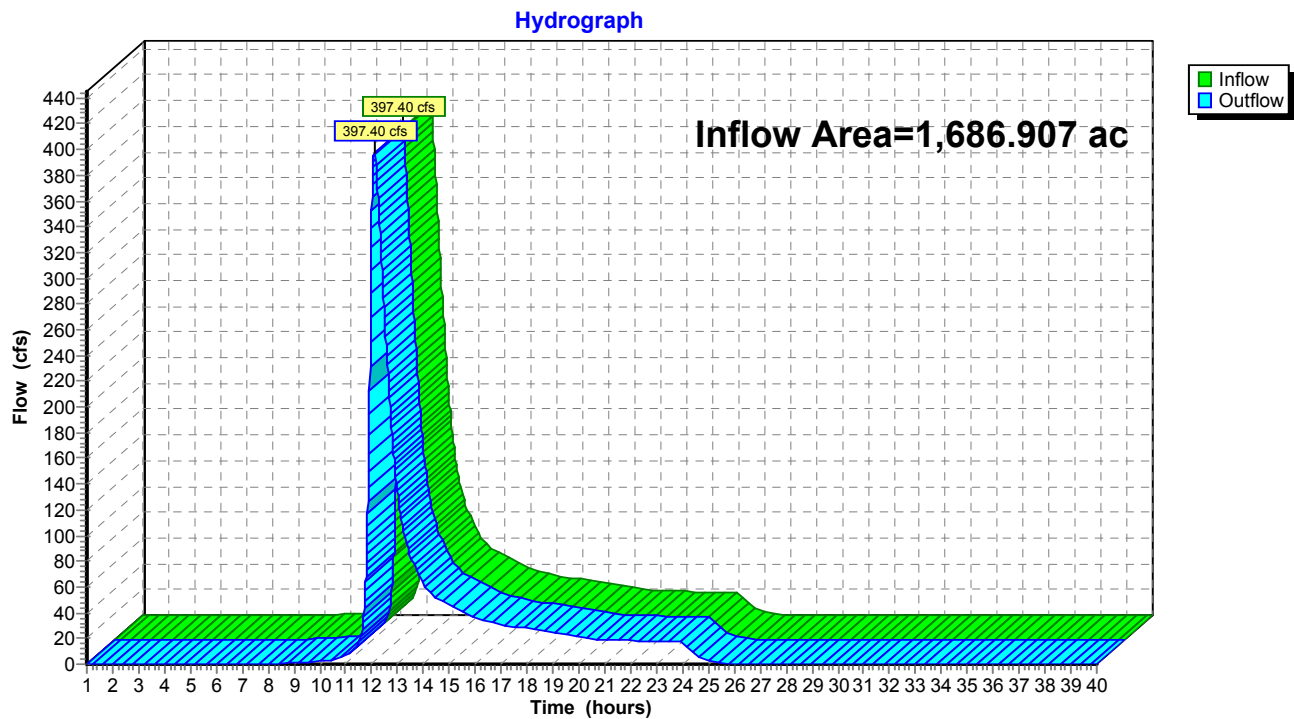
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 3: Apple River - At South Twin Outlet

Reach Apple River 4: Apple River Downstream of South Twin Outlet

Inflow Area = 1,686.907 ac, Inflow Depth > 0.42" for 2-yr event
Inflow = 397.40 cfs @ 12.10 hrs, Volume= 58.736 af
Outflow = 397.40 cfs @ 12.10 hrs, Volume= 58.736 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 4: Apple River Downstream of South Twin Outlet

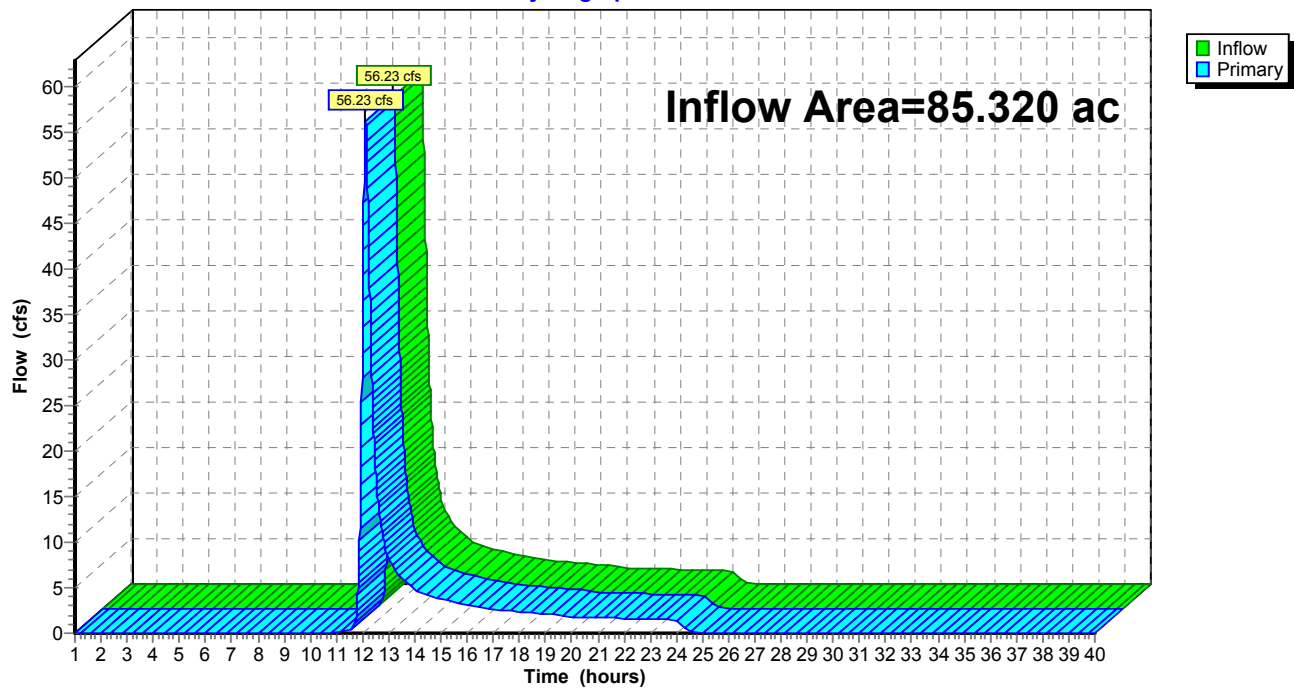
Pond 1P: (new Pond)

Inflow Area = 85.320 ac, Inflow Depth = 0.68" for 2-yr event
Inflow = 56.23 cfs @ 12.12 hrs, Volume= 4.839 af
Primary = 56.23 cfs @ 12.12 hrs, Volume= 4.839 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 1P: (new Pond)

Hydrograph



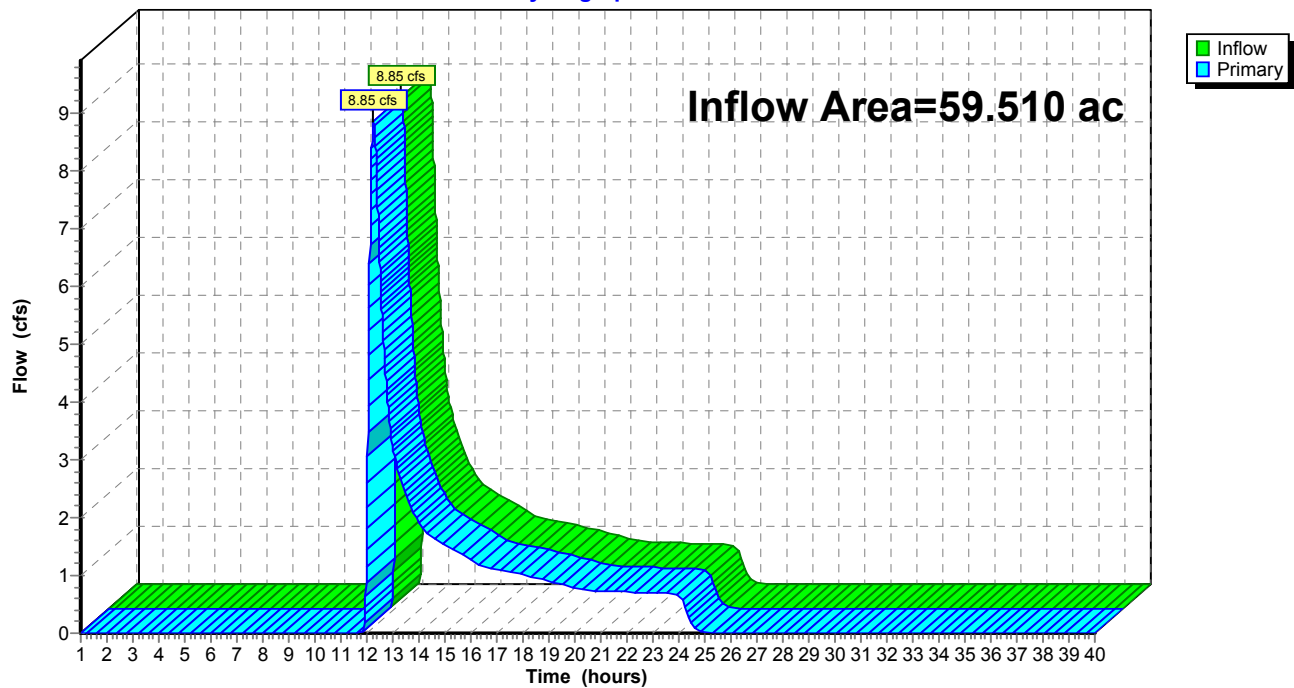
Pond 2P: (new Pond)

Inflow Area = 59.510 ac, Inflow Depth = 0.31" for 2-yr event
Inflow = 8.85 cfs @ 12.25 hrs, Volume= 1.528 af
Primary = 8.85 cfs @ 12.25 hrs, Volume= 1.528 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 2P: (new Pond)

Hydrograph



Pond 3P: (new Pond)

Inflow Area = 47.571 ac, Inflow Depth = 0.46" for 2-yr event
 Inflow = 23.69 cfs @ 12.07 hrs, Volume= 1.828 af
 Outflow = 0.65 cfs @ 24.08 hrs, Volume= 1.056 af, Atten= 97%, Lag= 720.1 min
 Primary = 0.65 cfs @ 24.08 hrs, Volume= 1.056 af

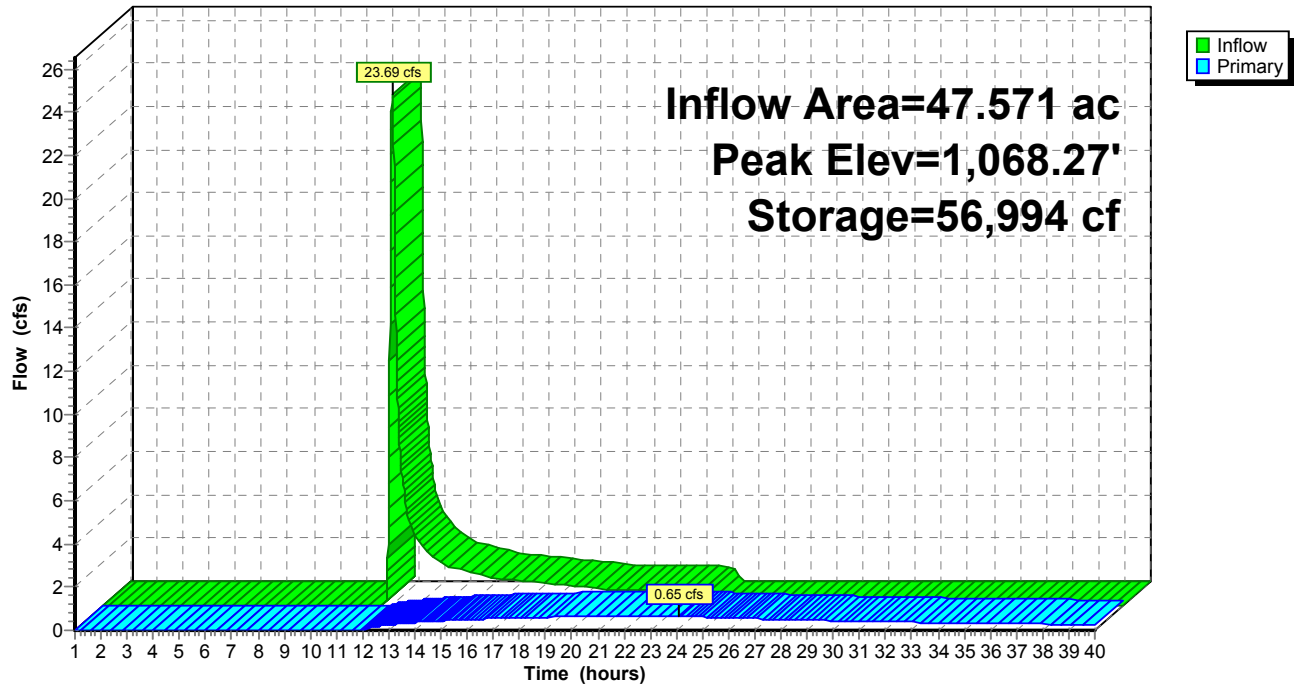
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.27' @ 24.08 hrs Surf.Area= 216,463 sf Storage= 56,994 cf
 Plug-Flow detention time= 743.8 min calculated for 1.056 af (58% of inflow)
 Center-of-Mass det. time= 593.5 min (1,503.6 - 910.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,068.00'	4,623,972 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,068.00	208,562	0	0
1,080.00	562,100	4,623,972	4,623,972

Device	Routing	Invert	Outlet Devices
#1	Primary	1,068.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 10.00 Width (feet) 1.00 40.00

Primary OutFlow Max=0.65 cfs @ 24.08 hrs HW=1,068.27' TW=980.11' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Weir Controls 0.65 cfs @ 1.6 fps)

Pond 3P: (new Pond)**Hydrograph**

Pond 5P: (new Pond)

Inflow Area = 18.570 ac, Inflow Depth = 1.12" for 2-yr event
 Inflow = 40.10 cfs @ 11.95 hrs, Volume= 1.727 af
 Outflow = 55.24 cfs @ 11.95 hrs, Volume= 1.519 af, Atten= 0%, Lag= 0.0 min
 Primary = 55.24 cfs @ 11.95 hrs, Volume= 1.519 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,123.20' @ 11.95 hrs Surf.Area= 9,060 sf Storage= 9,060 cf
 Plug-Flow detention time= 79.7 min calculated for 1.518 af (88% of inflow)
 Center-of-Mass det. time= 20.3 min (866.4 - 846.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,107.00'	9,060 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

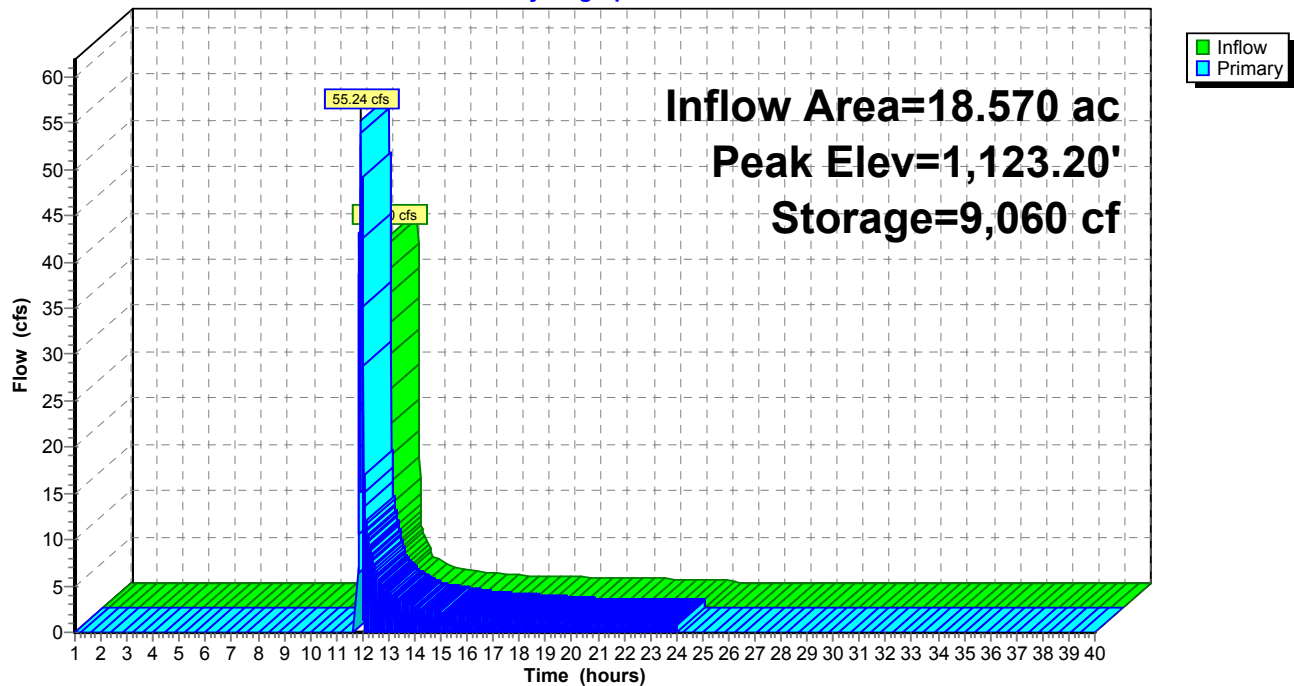
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,107.00	9,060	0	0
1,108.00	9,060	9,060	9,060

Device	Routing	Invert	Outlet Devices
#1	Primary	1,107.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 1.00 Width (feet) 1.00 5.00

Primary OutFlow Max=55.03 cfs @ 11.95 hrs HW=1,123.14' TW=1,109.19' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Orifice Controls 55.03 cfs @ 18.3 fps)

Pond 5P: (new Pond)

Hydrograph



Pond A10P: A10P

Inflow Area = 9.300 ac, Inflow Depth = 0.62" for 2-yr event
 Inflow = 9.19 cfs @ 12.00 hrs, Volume= 0.478 af
 Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.26' @ 24.40 hrs Surf.Area= 61,301 sf Storage= 20,823 cf
 Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

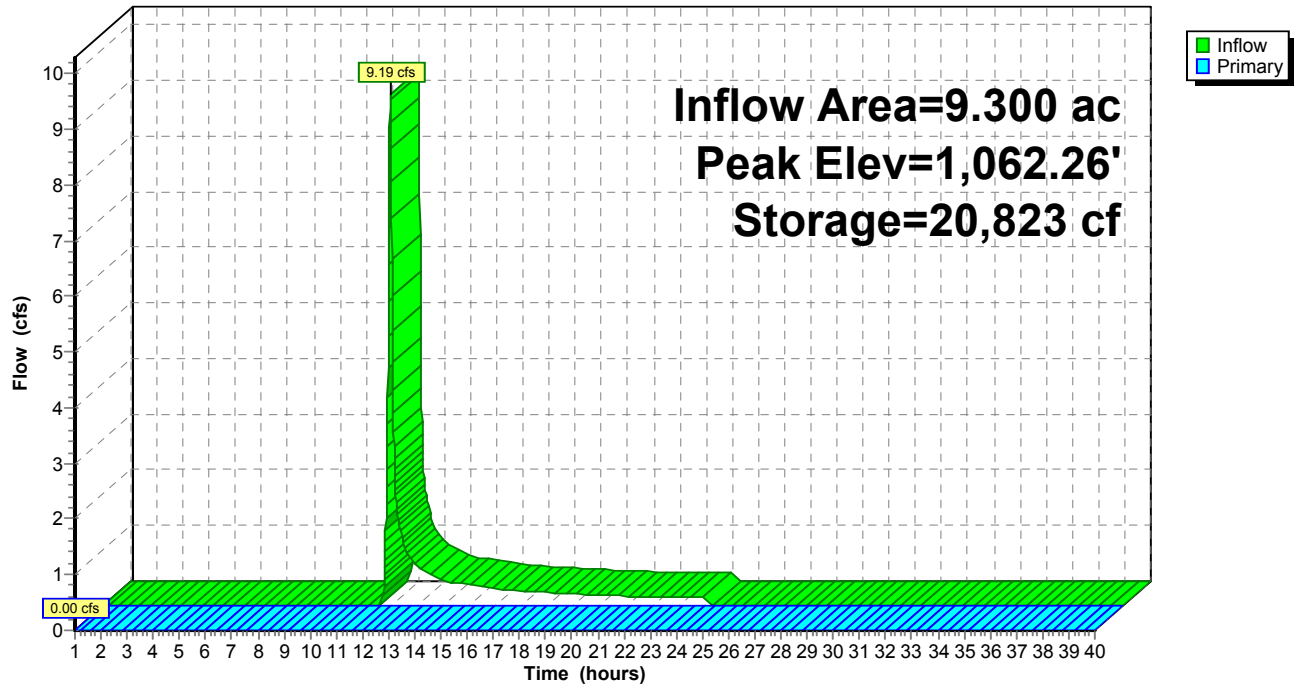
Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	640,000 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	60,000	0	0
1,070.00	100,000	640,000	640,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,070.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50
			3.00 3.50
			Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85
			3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=1,062.00' TW=1,060.80' (Dynamic Tailwater)

↑1=**Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond A10P: A10P**Hydrograph**

Pond A1P: WETLAND PONDS

Inflow Area = 36.474 ac, Inflow Depth = 0.54" for 2-yr event
 Inflow = 10.77 cfs @ 12.43 hrs, Volume= 1.629 af
 Outflow = 0.55 cfs @ 24.20 hrs, Volume= 0.848 af, Atten= 95%, Lag= 706.2 min
 Primary = 0.55 cfs @ 24.20 hrs, Volume= 0.848 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,093.04' @ 24.20 hrs Surf.Area= 84,647 sf Storage= 52,255 cf
 Plug-Flow detention time= 746.0 min calculated for 0.848 af (52% of inflow)
 Center-of-Mass det. time= 589.2 min (1,513.0 - 923.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,092.50'	243,750 cf	Custom Stage Data (Prismatic) Listed below

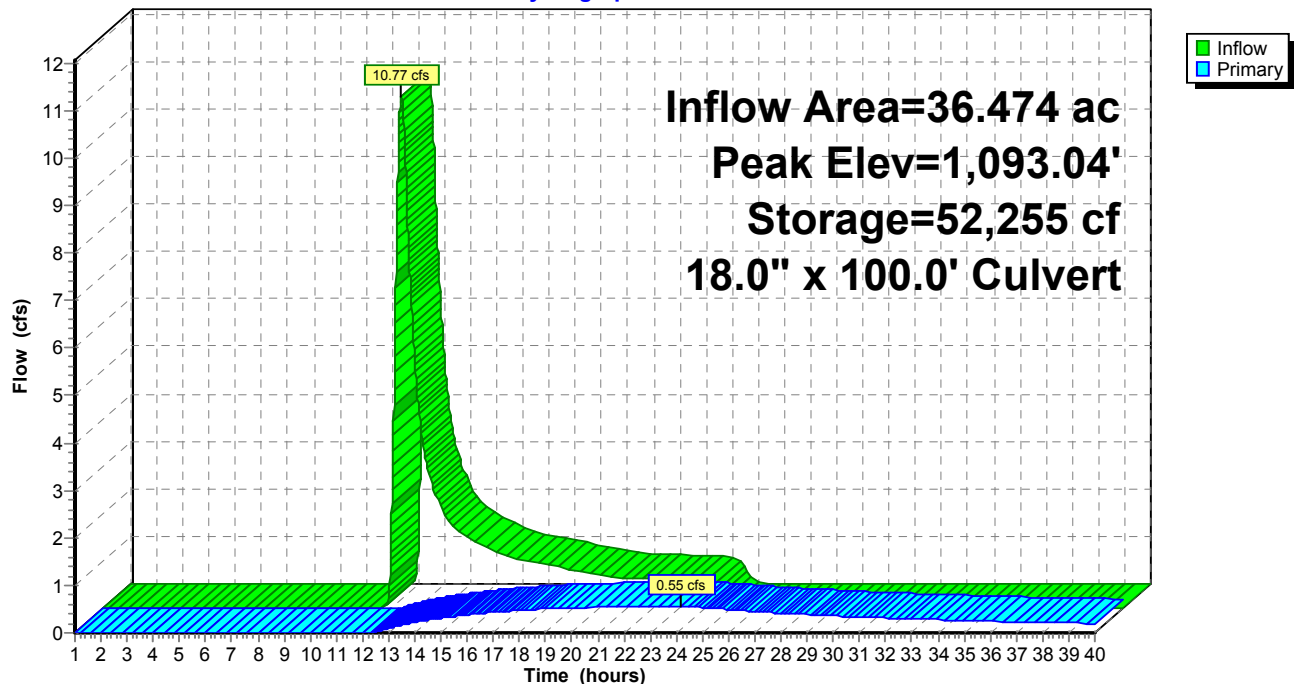
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,092.50	75,000	0	0
1,095.00	120,000	243,750	243,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,092.50'	18.0" x 100.0' long Culvert Ke= 0.700 Outlet Invert= 1,091.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.55 cfs @ 24.20 hrs HW=1,093.04' TW=1,092.60' (Dynamic Tailwater)
 ↑ **1=Culvert** (Outlet Controls 0.55 cfs @ 1.5 fps)

Pond A1P: WETLAND PONDS

Hydrograph



Pond A4P: A4P

Inflow Area = 34.000 ac, Inflow Depth = 0.66" for 2-yr event
 Inflow = 14.45 cfs @ 12.34 hrs, Volume= 1.868 af
 Outflow = 0.42 cfs @ 24.39 hrs, Volume= 0.708 af, Atten= 97%, Lag= 723.2 min
 Primary = 0.42 cfs @ 24.39 hrs, Volume= 0.708 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,084.37' @ 24.39 hrs Surf.Area= 161,743 sf Storage= 67,708 cf
 Plug-Flow detention time= 830.4 min calculated for 0.708 af (38% of inflow)
 Center-of-Mass det. time= 667.8 min (1,575.4 - 907.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,084.00'	368,635 cf	Custom Stage Data (Prismatic) Listed below

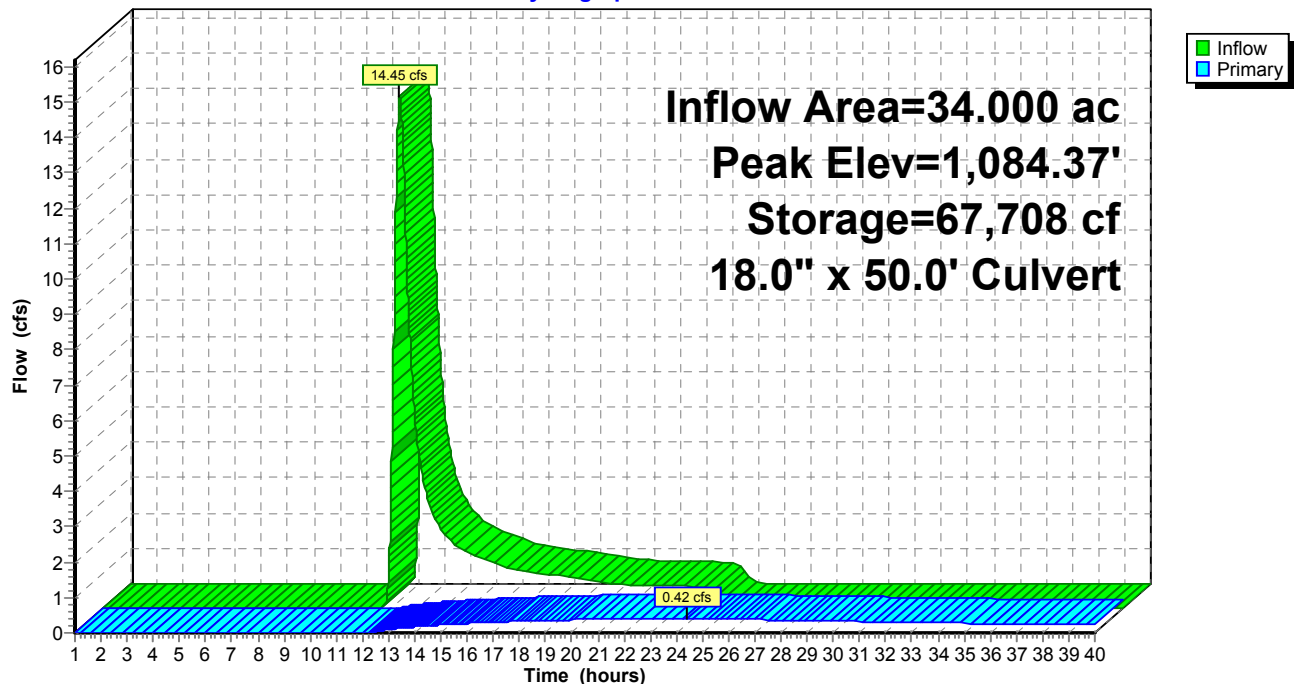
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,084.00	148,635	0	0
1,086.00	220,000	368,635	368,635

Device	Routing	Invert	Outlet Devices
#1	Primary	1,084.00'	18.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,083.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.42 cfs @ 24.39 hrs HW=1,084.37' TW=1,083.63' (Dynamic Tailwater)
 ↑1=Culvert (Barrel Controls 0.42 cfs @ 1.9 fps)

Pond A4P: A4P

Hydrograph



Pond B6P: WETPONDS

Inflow Area = 16.070 ac, Inflow Depth = 0.58" for 2-yr event
 Inflow = 13.11 cfs @ 12.02 hrs, Volume= 0.771 af
 Outflow = 1.00 cfs @ 11.96 hrs, Volume= 0.771 af, Atten= 92%, Lag= 0.0 min
 Discarded = 1.00 cfs @ 11.96 hrs, Volume= 0.771 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.30' @ 13.39 hrs Surf.Area= 37,131 sf Storage= 11,512 cf
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 105.7 min (997.7 - 892.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.00'	153,798 cf	Custom Stage Data (Prismatic) Listed below

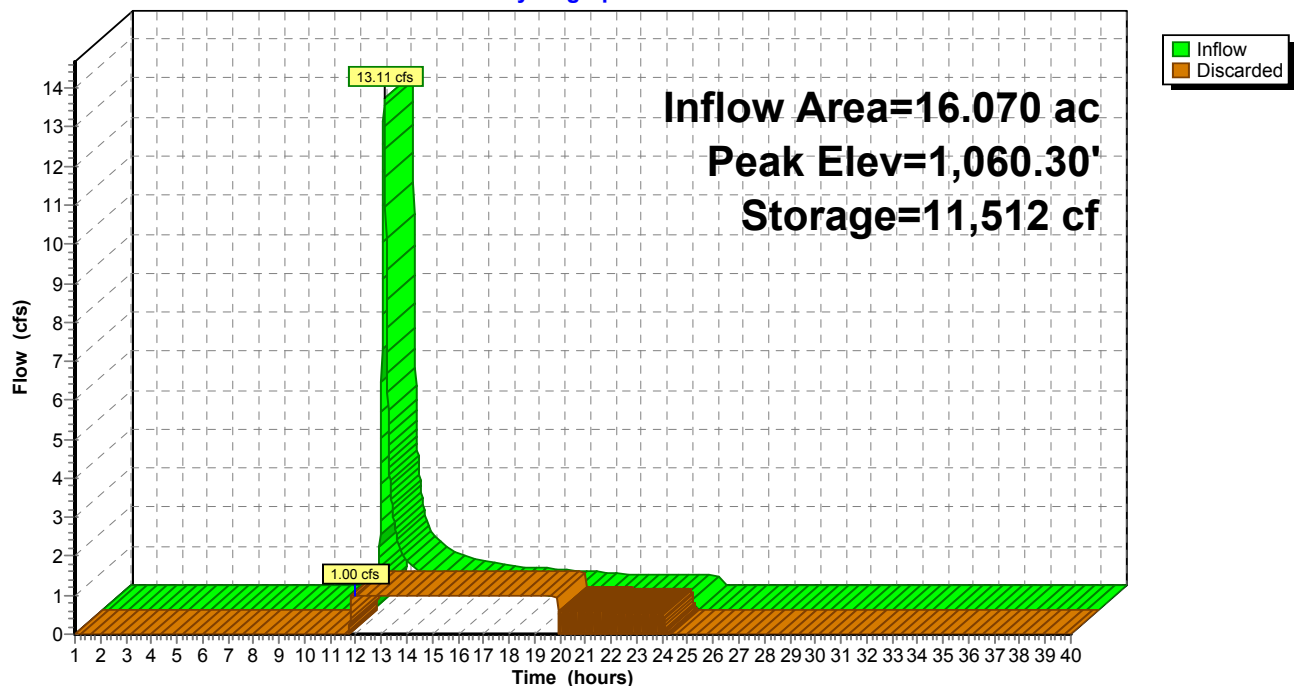
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,060.00	36,899	0	0
1,064.00	40,000	153,798	153,798

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	1.00 cfs Exfiltration at all elevations

Discarded OutFlow Max=1.00 cfs @ 11.96 hrs HW=1,060.04' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 1.00 cfs)

Pond B6P: WETPONDS

Hydrograph



Pond B7P: DRY POND

Inflow Area = 15.390 ac, Inflow Depth = 0.43" for 2-yr event
 Inflow = 3.32 cfs @ 12.39 hrs, Volume= 0.546 af
 Outflow = 1.34 cfs @ 13.07 hrs, Volume= 0.544 af, Atten= 60%, Lag= 41.0 min
 Primary = 1.34 cfs @ 13.07 hrs, Volume= 0.544 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.14' @ 13.07 hrs Surf.Area= 36,619 sf Storage= 5,568 cf
 Plug-Flow detention time= 97.8 min calculated for 0.544 af (100% of inflow)
 Center-of-Mass det. time= 96.0 min (1,032.9 - 936.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	81,000 cf	Custom Stage Data (Prismatic) Listed below

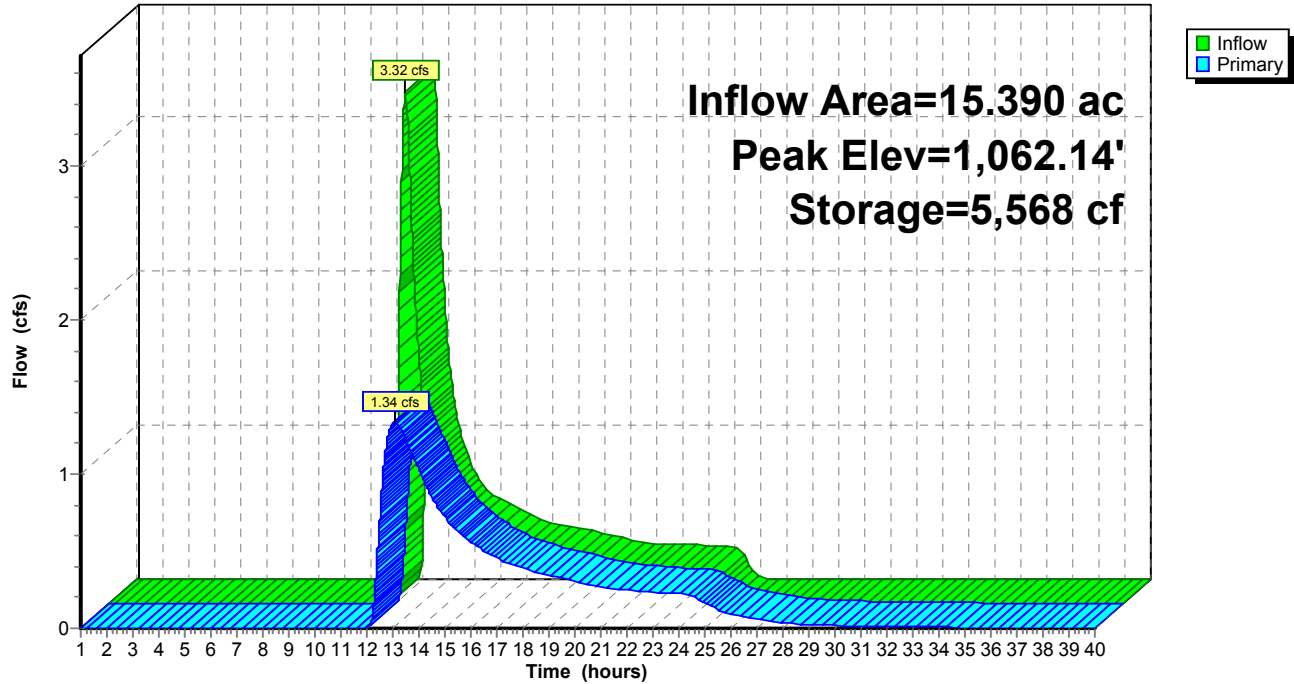
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	36,000	0	0
1,064.00	45,000	81,000	81,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=1.34 cfs @ 13.07 hrs HW=1,062.14' TW=1,060.82' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 1.34 cfs @ 1.0 fps)

Pond B7P: DRY POND

Hydrograph



Pond C4P: GOLF COURSE POND

Inflow Area = 20.070 ac, Inflow Depth = 0.43" for 2-yr event
 Inflow = 12.55 cfs @ 11.99 hrs, Volume= 0.712 af
 Outflow = 1.78 cfs @ 12.49 hrs, Volume= 0.710 af, Atten= 86%, Lag= 29.5 min
 Primary = 1.78 cfs @ 12.49 hrs, Volume= 0.710 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.13' @ 12.49 hrs Surf.Area= 56,562 sf Storage= 7,703 cf
 Plug-Flow detention time= 101.8 min calculated for 0.710 af (100% of inflow)
 Center-of-Mass det. time= 99.9 min (1,009.2 - 909.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,063.00'	147,275 cf	Custom Stage Data (Prismatic) Listed below

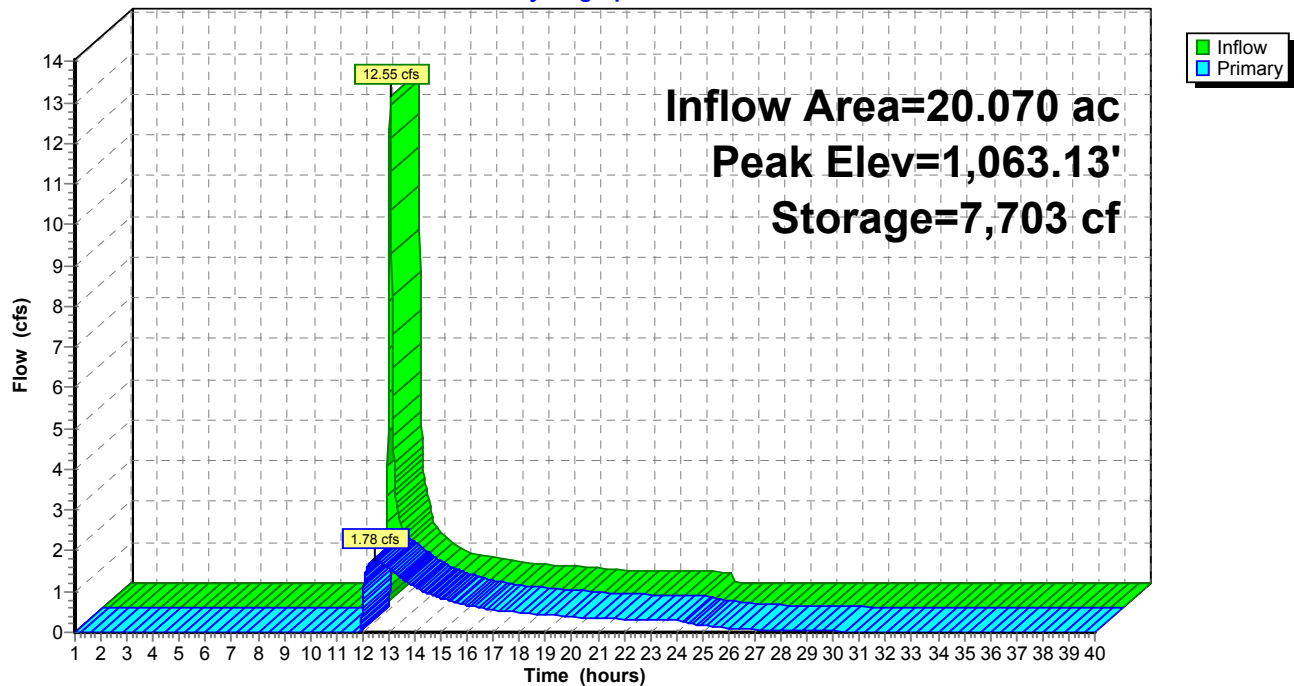
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,063.00	53,600	0	0
1,063.50	65,000	29,650	29,650
1,064.00	76,500	35,375	65,025
1,065.00	88,000	82,250	147,275

Device	Routing	Invert	Outlet Devices
#1	Primary	1,063.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.78 cfs @ 12.49 hrs HW=1,063.13' TW=1,059.82' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 1.78 cfs @ 0.9 fps)

Pond C4P: GOLF COURSE POND

Hydrograph



Pond C6P: GOLF COURSE POND

Inflow Area = 14.100 ac, Inflow Depth = 0.58" for 2-yr event
 Inflow = 13.70 cfs @ 11.98 hrs, Volume= 0.676 af
 Outflow = 0.30 cfs @ 19.15 hrs, Volume= 0.274 af, Atten= 98%, Lag= 430.4 min
 Primary = 0.30 cfs @ 19.15 hrs, Volume= 0.274 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,067.75' @ 19.15 hrs Surf.Area= 85,291 sf Storage= 21,380 cf
 Plug-Flow detention time= 603.9 min calculated for 0.274 af (41% of inflow)
 Center-of-Mass det. time= 438.6 min (1,327.3 - 888.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,067.50'	185,886 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,067.50	78,544	0	0
1,068.00	92,000	42,636	42,636
1,069.50	99,000	143,250	185,886

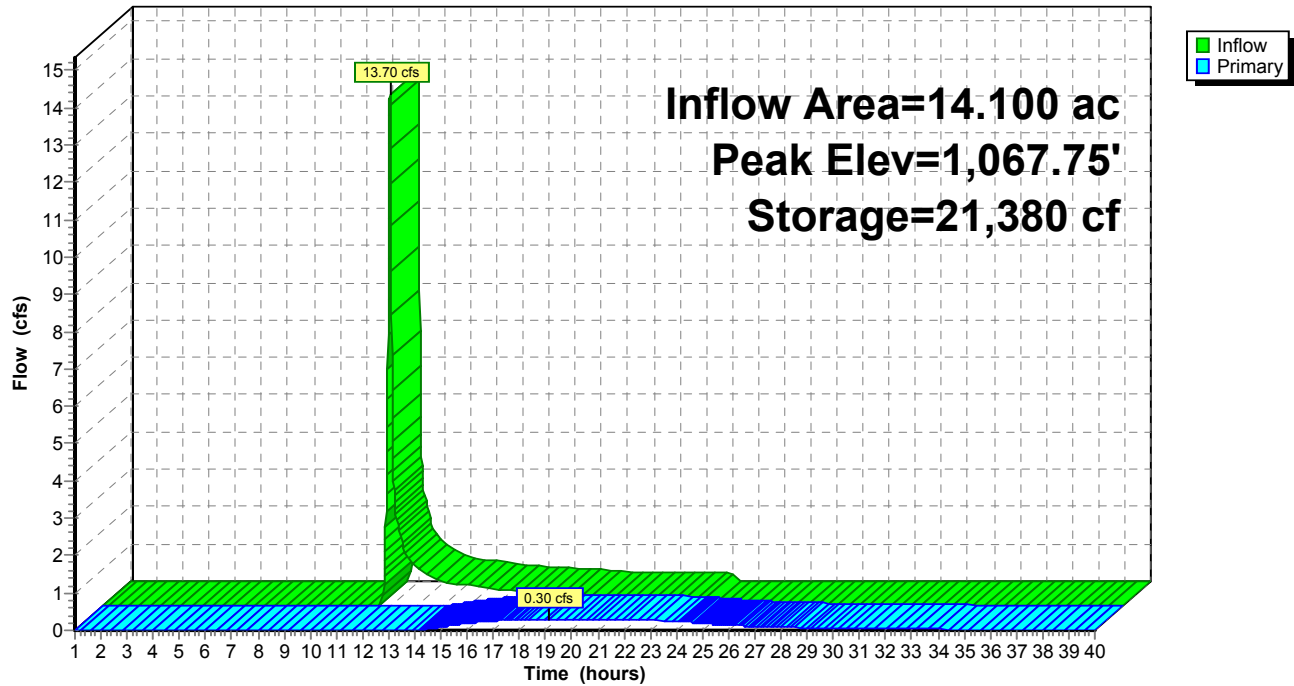
Device	Routing	Invert	Outlet Devices
#1	Primary	1,067.70'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=0.30 cfs @ 19.15 hrs HW=1,067.75' TW=1,059.90' (Dynamic Tailwater)

↑1=**Broad-Crested Rectangular Weir** (Weir Controls 0.30 cfs @ 0.6 fps)

Pond C6P: GOLF COURSE POND

Hydrograph



Pond C7P: (new node)

Inflow Area = 14.790 ac, Inflow Depth = 0.80" for 2-yr event
 Inflow = 21.87 cfs @ 11.95 hrs, Volume= 0.990 af
 Outflow = 0.09 cfs @ 24.07 hrs, Volume= 0.167 af, Atten= 100%, Lag= 727.1 min
 Primary = 0.09 cfs @ 24.07 hrs, Volume= 0.167 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.20' @ 24.07 hrs Surf.Area= 4.146 ac Storage= 0.928 af
 Plug-Flow detention time= 912.9 min calculated for 0.167 af (17% of inflow)
 Center-of-Mass det. time= 756.6 min (1,622.8 - 866.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	9.500 af	Custom Stage Data (Prismatic) Listed below

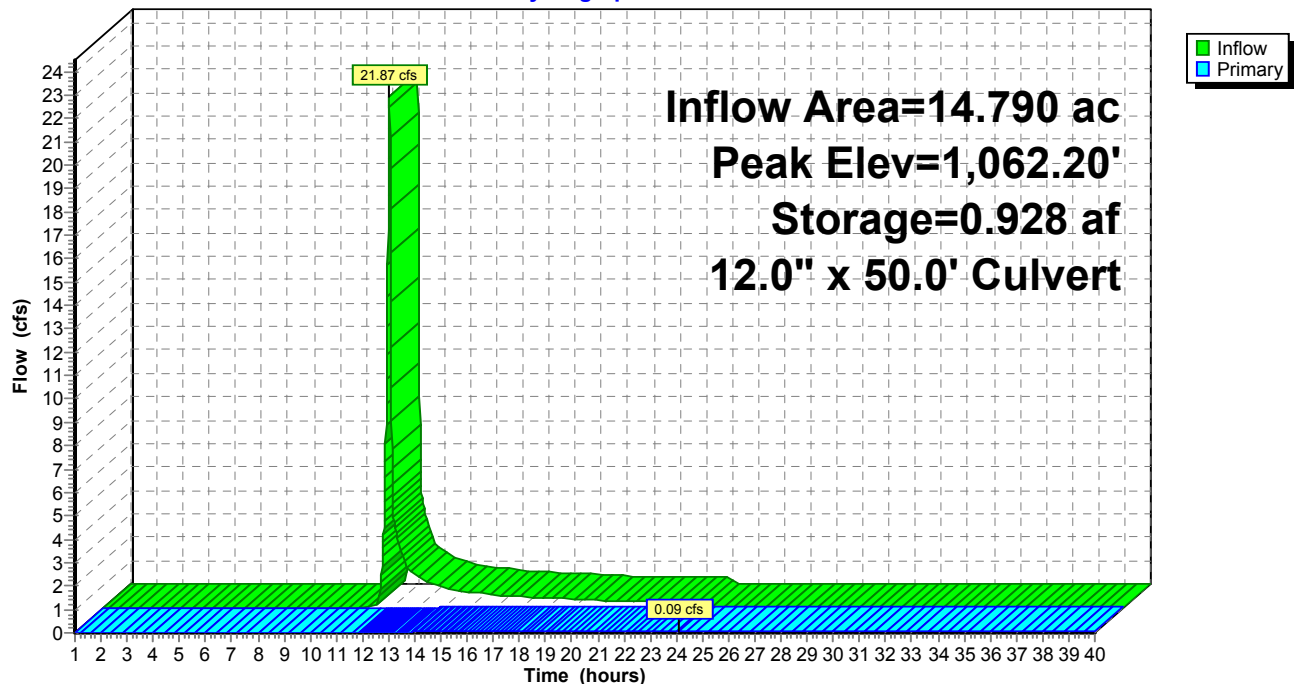
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,062.00	4.000	0.000	0.000
1,064.00	5.500	9.500	9.500

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	12.0" x 50.0' long Culvert Ke= 0.500 Outlet Invert= 1,061.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.09 cfs @ 24.07 hrs HW=1,062.20' TW=1,059.93' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.09 cfs @ 1.3 fps)

Pond C7P: (new node)

Hydrograph



Pond North Twin Lake: NORTH TWIN LAKE

Inflow Area = 570.115 ac, Inflow Depth > 0.25" for 2-yr event
 Inflow = 67.67 cfs @ 12.02 hrs, Volume= 11.652 af
 Outflow = 3.46 cfs @ 24.17 hrs, Volume= 8.037 af, Atten= 95%, Lag= 729.6 min
 Primary = 3.46 cfs @ 24.17 hrs, Volume= 8.037 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.84' @ 24.17 hrs Surf.Area= 142.501 ac Storage= 5.644 af
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 412.1 min (1,546.8 - 1,134.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	172.740 af	Custom Stage Data (Prismatic) Listed below

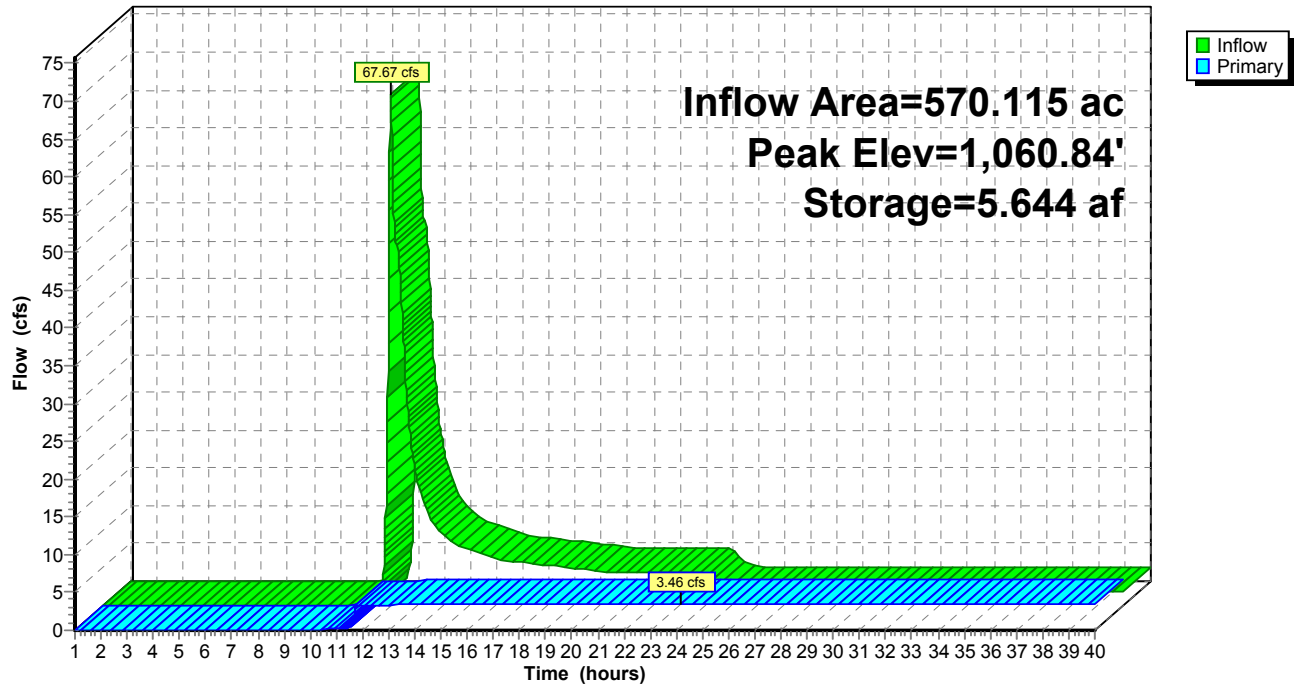
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	142.400	0.000	0.000
1,062.00	145.500	172.740	172.740

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	30.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.60' S= 0.0040 '/' Cc= 0.900 n= 0.024
#2	Primary	1,062.80'	100.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.46 cfs @ 24.17 hrs HW=1,060.84' TW=1,059.93' (Dynamic Tailwater)
 1=Culvert (Barrel Controls 3.46 cfs @ 2.7 fps)
 2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond North Twin Lake: NORTH TWIN LAKE

Hydrograph



Pond PIKE: PIKE LAKE

Inflow Area = 400.735 ac, Inflow Depth > 0.41" for 2-yr event
 Inflow = 119.97 cfs @ 12.05 hrs, Volume= 13.841 af
 Outflow = 1.83 cfs @ 29.00 hrs, Volume= 3.501 af, Atten= 98%, Lag= 1,016.9 min
 Primary = 1.83 cfs @ 29.00 hrs, Volume= 3.501 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.87' @ 24.53 hrs Surf.Area= 169.476 ac Storage= 11.300 af
 Plug-Flow detention time= 953.2 min calculated for 3.500 af (25% of inflow)
 Center-of-Mass det. time= 659.1 min (1,678.4 - 1,019.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	205.080 af	Custom Stage Data (Prismatic) Listed below

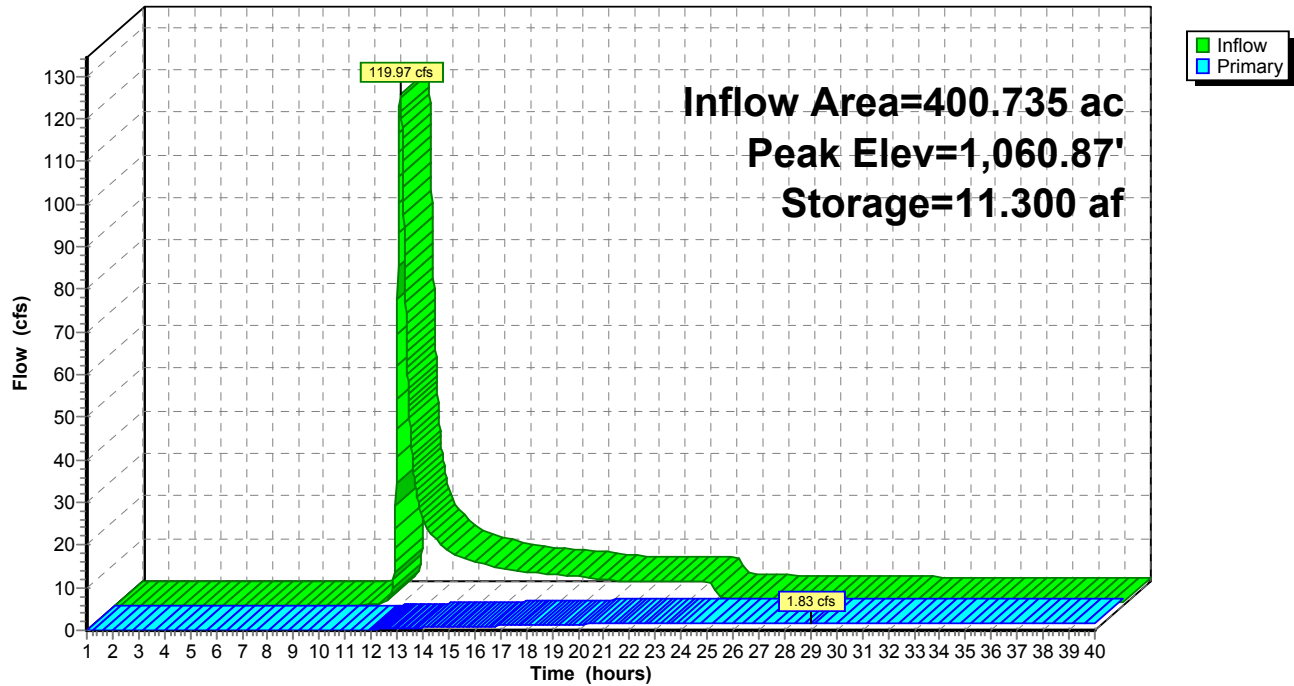
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	169.300	0.000	0.000
1,062.00	172.500	205.080	205.080

Device	Routing	Invert	Outlet Devices
#1	Primary	1,060.80'	50.0' long x 1.2' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.66 2.69 2.71 2.78 2.89 2.99 3.09 3.20 3.21 3.19 3.30 3.32

Primary OutFlow Max=1.83 cfs @ 29.00 hrs HW=1,060.87' TW=1,060.84' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 1.83 cfs @ 0.6 fps)

Pond PIKE: PIKE LAKE

Hydrograph



Pond South Twin Lake: SOUTH TWIN LAKE

Inflow Area = 693.705 ac, Inflow Depth > 0.26" for 2-yr event
 Inflow = 30.25 cfs @ 12.15 hrs, Volume= 15.309 af
 Outflow = 0.12 cfs @ 40.00 hrs, Volume= 0.144 af, Atten= 100%, Lag= 1,670.9 min
 Primary = 0.12 cfs @ 40.00 hrs, Volume= 0.144 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,059.99' @ 40.00 hrs Surf.Area= 76.611 ac Storage= 15.164 af
 Plug-Flow detention time= 1,144.7 min calculated for 0.144 af (1% of inflow)
 Center-of-Mass det. time= 574.5 min (1,837.7 - 1,263.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,059.80'	321.440 af	Custom Stage Data (Prismatic) Listed below

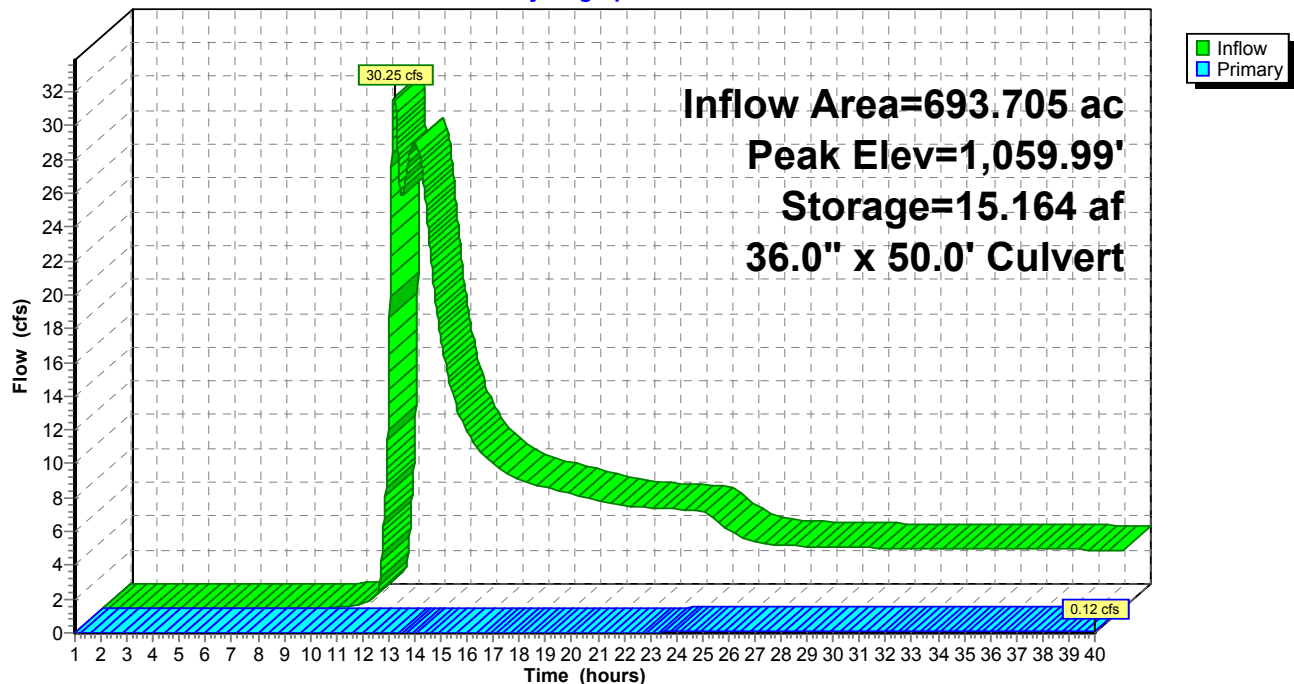
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,059.80	76.220	0.000	0.000
1,063.80	84.500	321.440	321.440

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	36.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.50' S= 0.0060 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.12 cfs @ 40.00 hrs HW=1,059.99' TW=0.00' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.12 cfs @ 1.0 fps)

Pond South Twin Lake: SOUTH TWIN LAKE

Hydrograph



Subcatchment A1: A1

Runoff = 22.43 cfs @ 12.39 hrs, Volume= 2.932 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

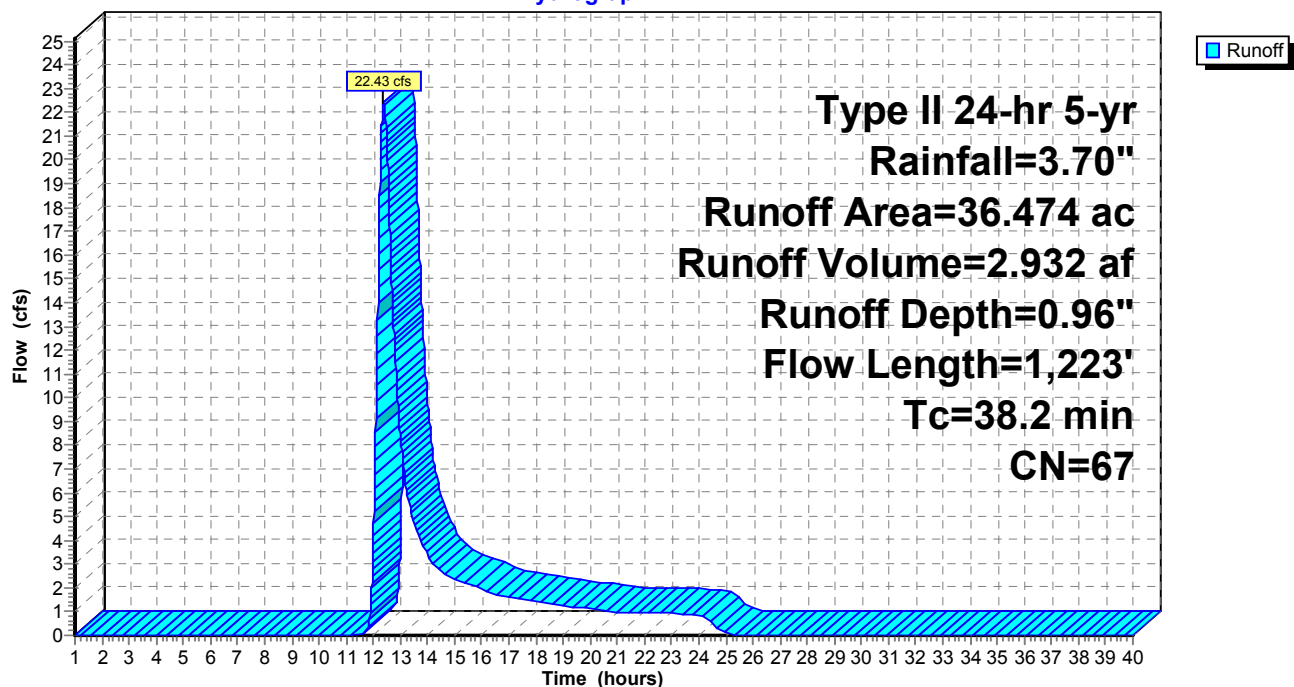
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
36.474	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	1,223	0.0200	0.5		Lag/CN Method,

Subcatchment A1: A1

Hydrograph



Subcatchment A10: A10

Runoff = 16.99 cfs @ 11.99 hrs, Volume= 0.834 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

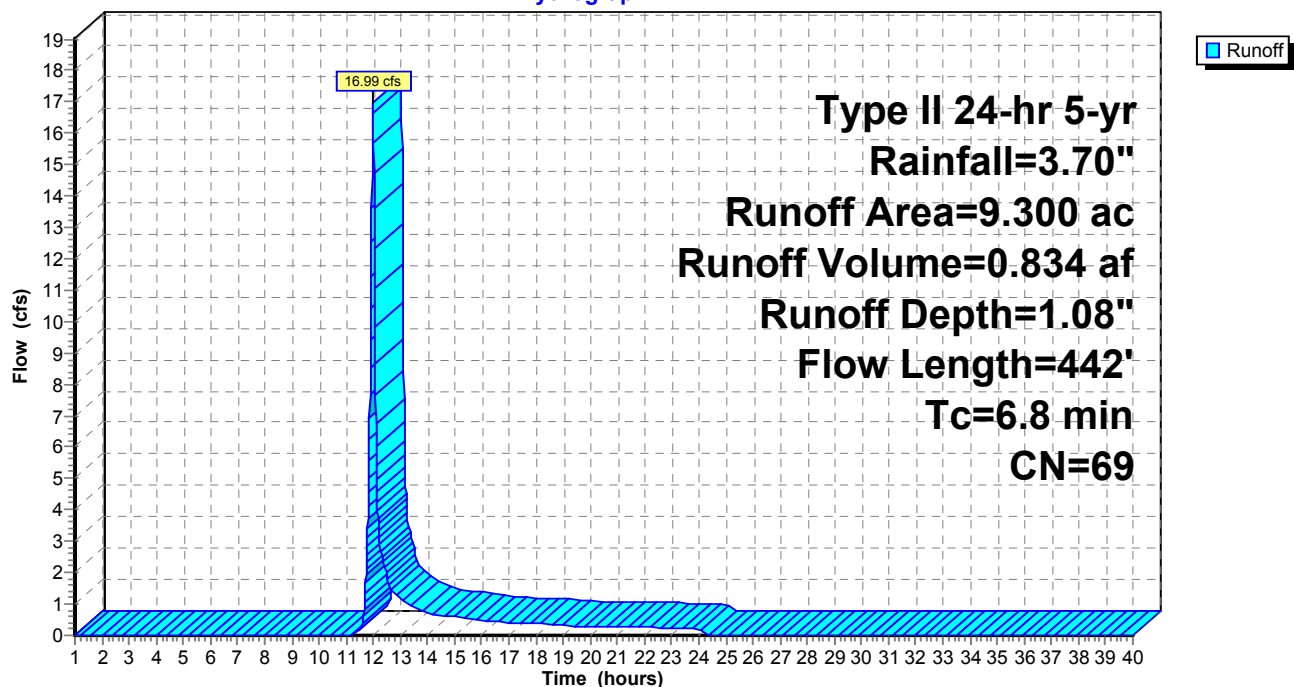
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.300	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	442	0.1100	1.1		Lag/CN Method,

Subcatchment A10: A10

Hydrograph



Subcatchment A11: A11

Runoff = 29.81 cfs @ 12.05 hrs, Volume= 1.840 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

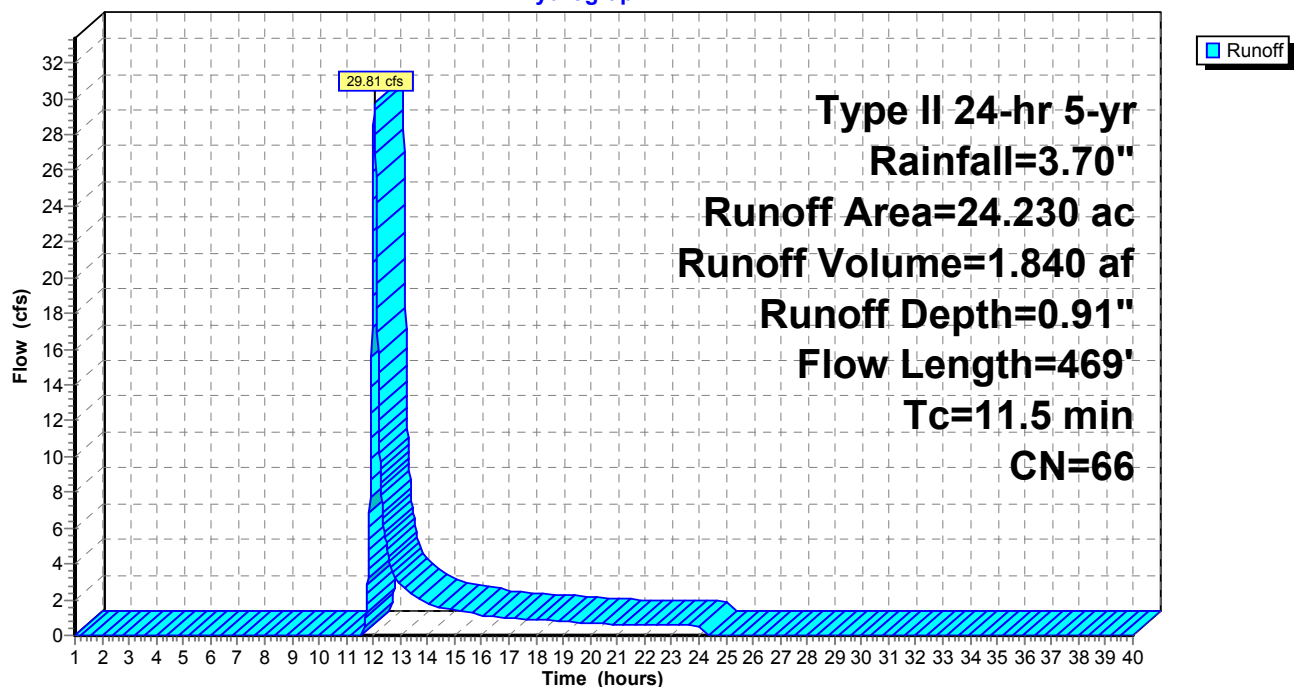
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
24.230	66	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	469	0.0500	0.7		Lag/CN Method,

Subcatchment A11: A11

Hydrograph



Subcatchment A12: A12

Runoff = 15.86 cfs @ 12.13 hrs, Volume= 1.344 af, Depth= 0.71"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

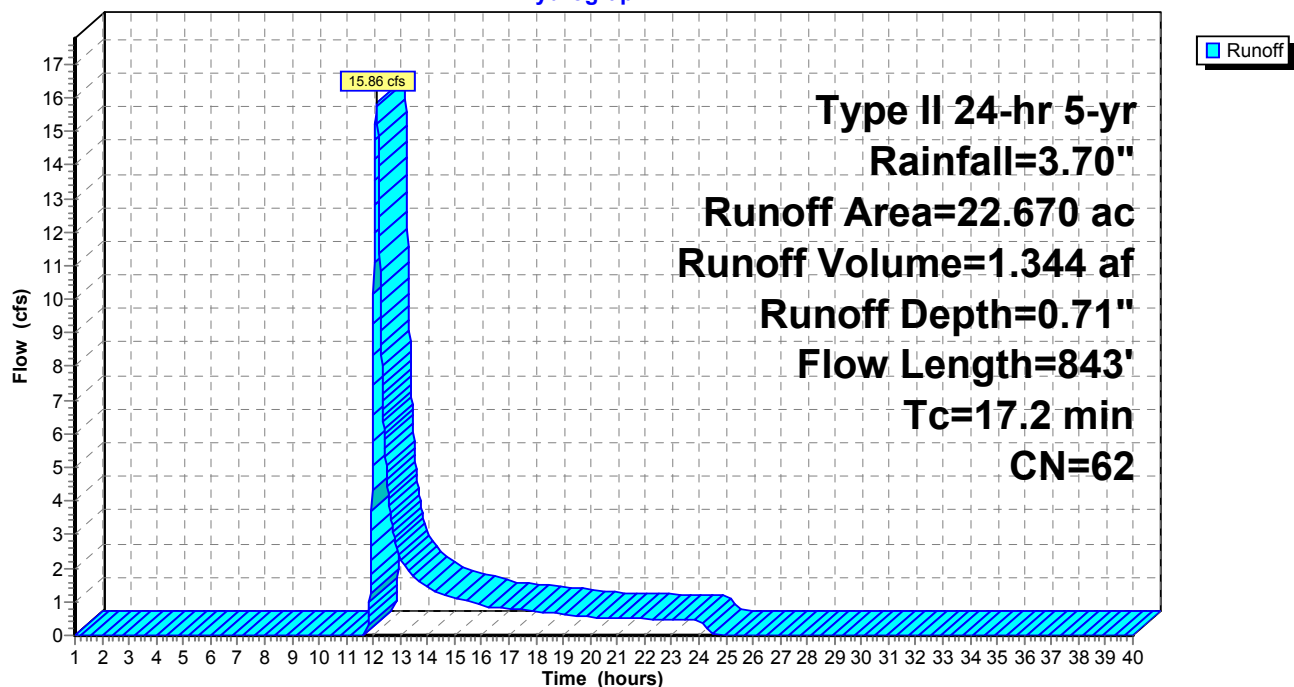
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
22.670	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	843	0.0700	0.8		Lag/CN Method,

Subcatchment A12: A12

Hydrograph



Subcatchment A13: A13

Runoff = 12.95 cfs @ 12.21 hrs, Volume= 1.431 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

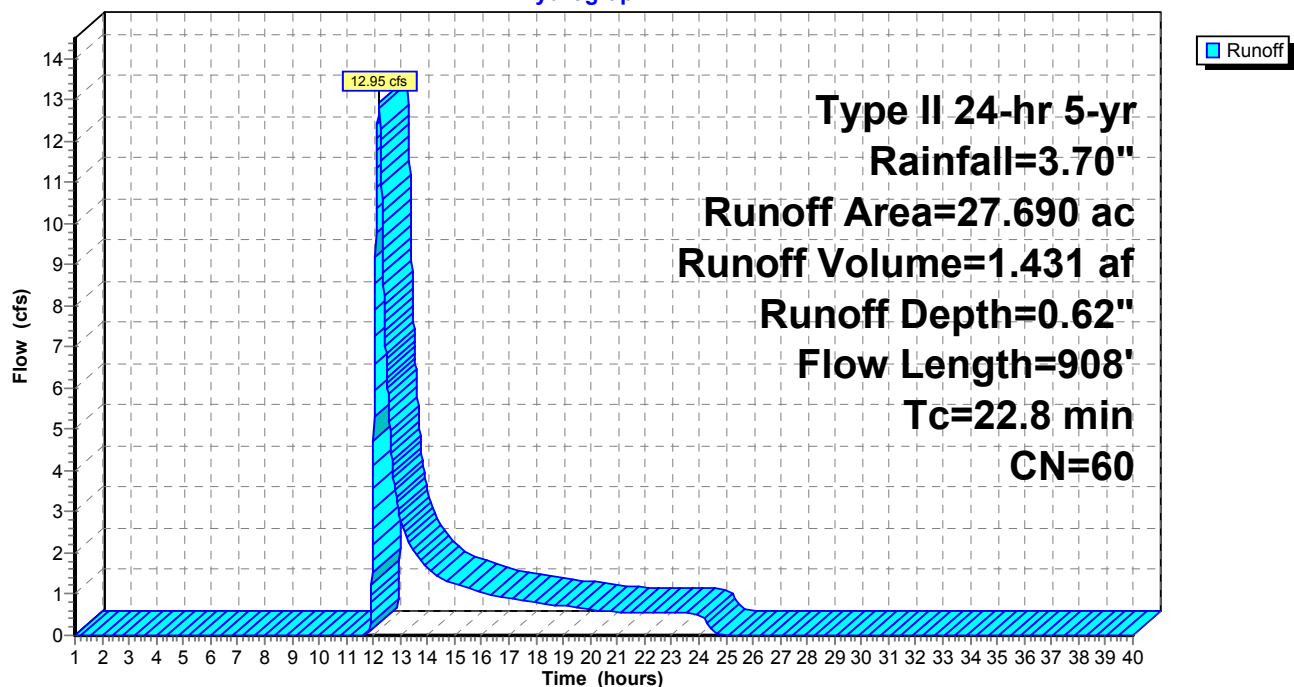
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
27.690	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	908	0.0500	0.7		Lag/CN Method,

Subcatchment A13: A13

Hydrograph



Subcatchment A2: A2

Runoff = 48.94 cfs @ 12.09 hrs, Volume= 3.416 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

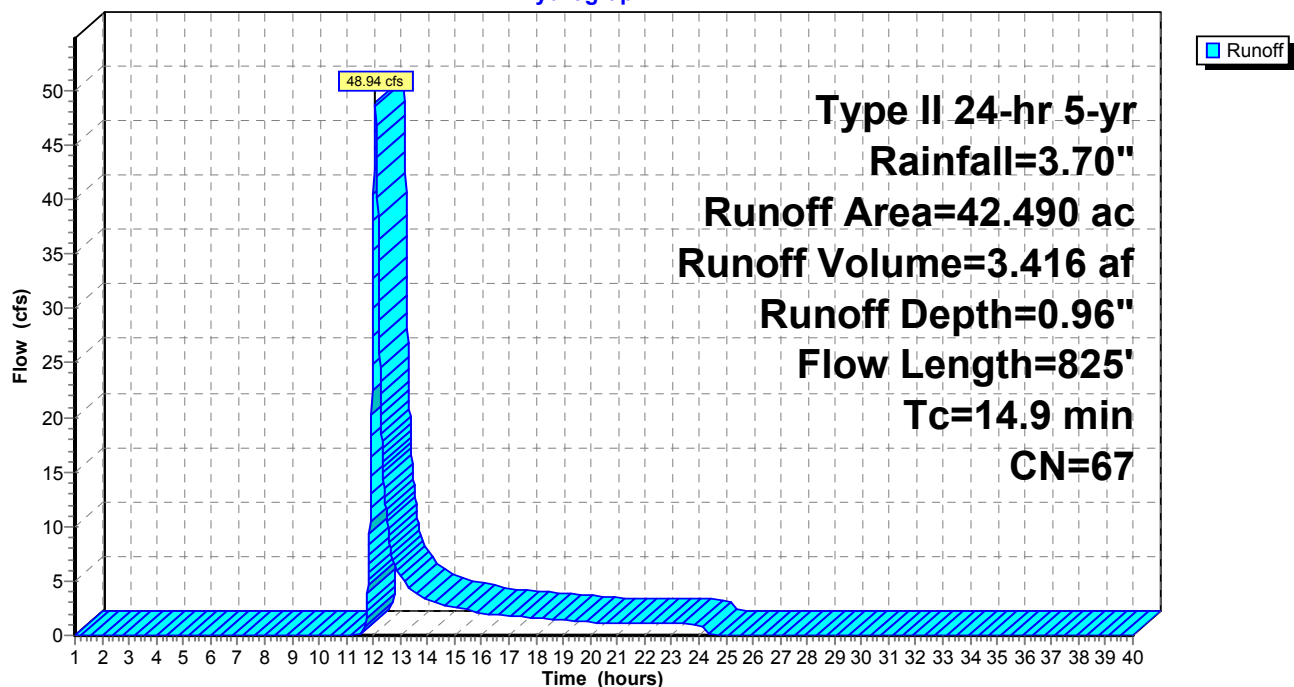
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
42.490	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	825	0.0700	0.9		Lag/CN Method,

Subcatchment A2: A2

Hydrograph



Subcatchment A3: A3

Runoff = 37.15 cfs @ 12.14 hrs, Volume= 2.884 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

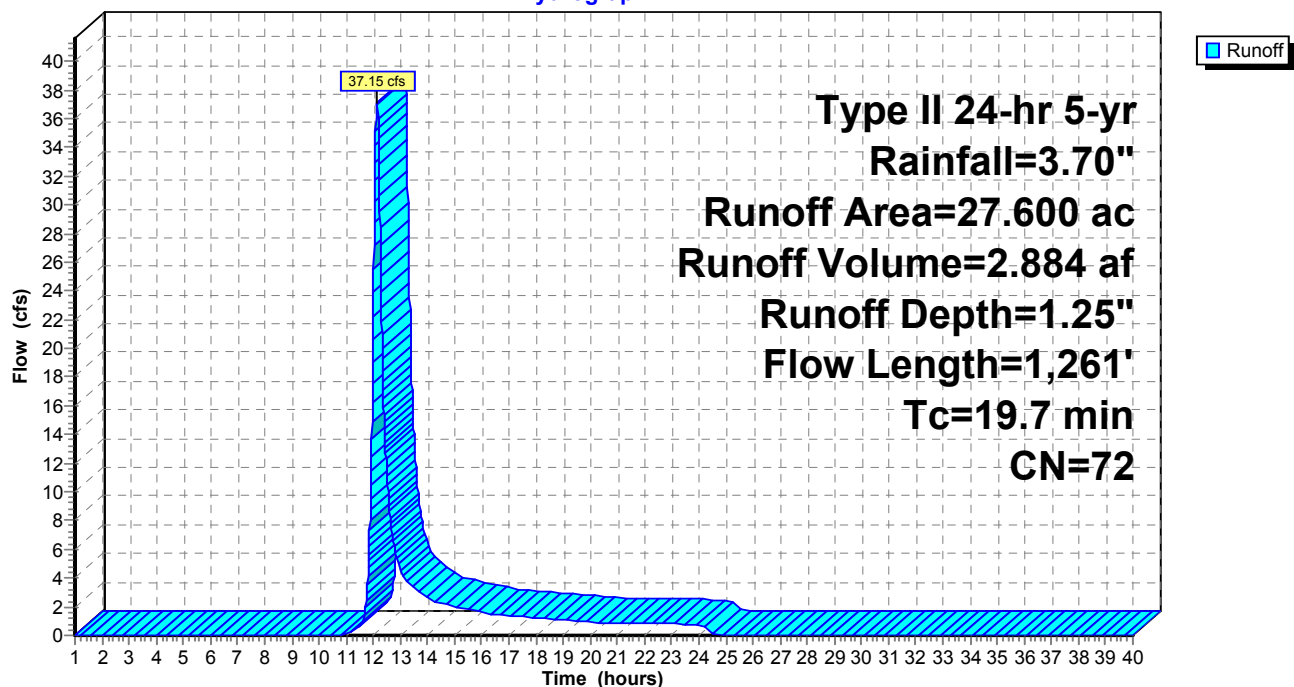
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
27.600	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	1,261	0.0600	1.1		Lag/CN Method,

Subcatchment A3: A3

Hydrograph



Subcatchment A4: A4

Runoff = 27.63 cfs @ 12.33 hrs, Volume= 3.212 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

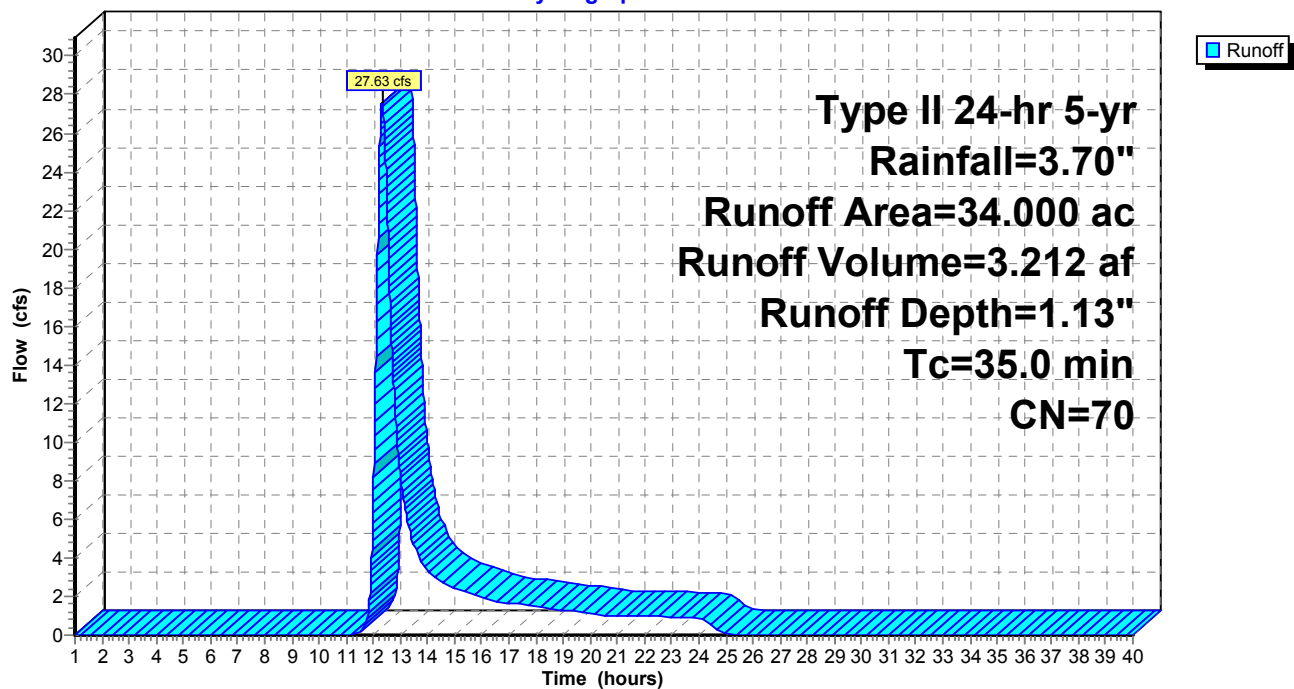
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.000	100	WATER
19.000	60	Woods, Fair, HSG B
10.000	74	Row crops, C + CR, Good, HSG B
34.000	70	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.0					Direct Entry,

Subcatchment A4: A4

Hydrograph



Subcatchment A5: A5

Runoff = 33.69 cfs @ 12.06 hrs, Volume= 2.075 af, Depth= 1.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

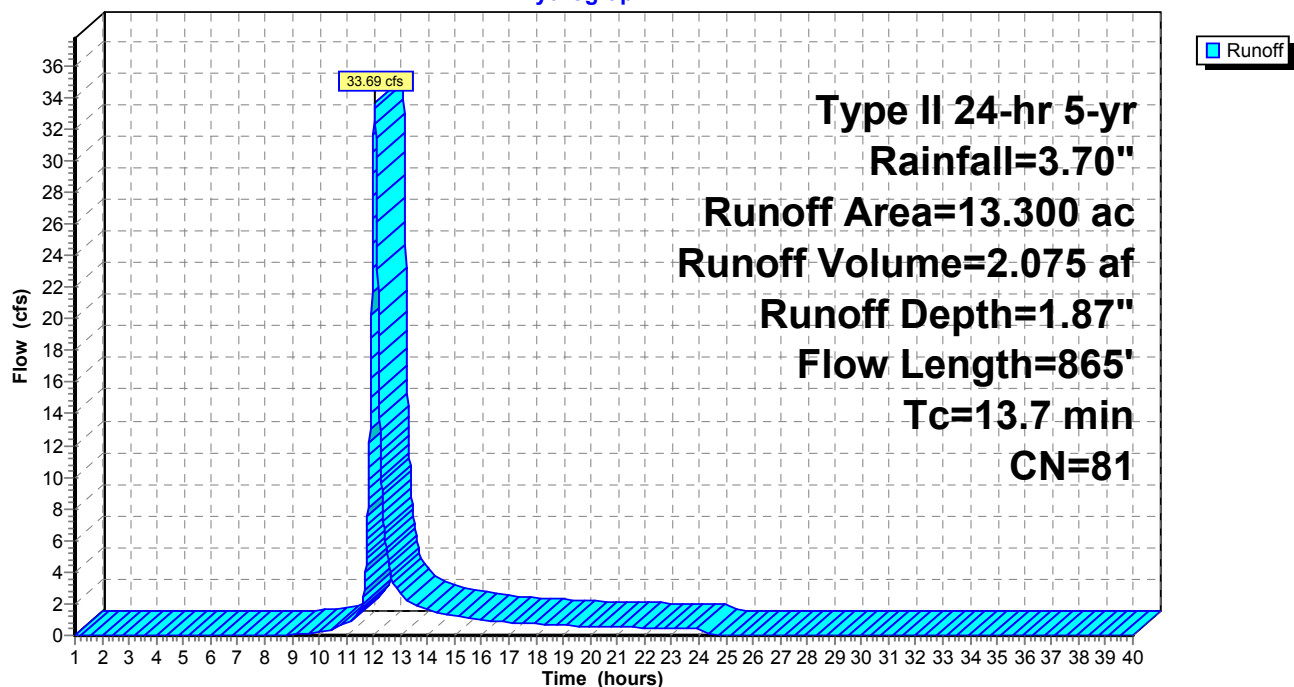
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
13.300	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	865	0.0400	1.1		Lag/CN Method,

Subcatchment A5: A5

Hydrograph



Subcatchment A6: A6

Runoff = 17.75 cfs @ 12.15 hrs, Volume= 1.476 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

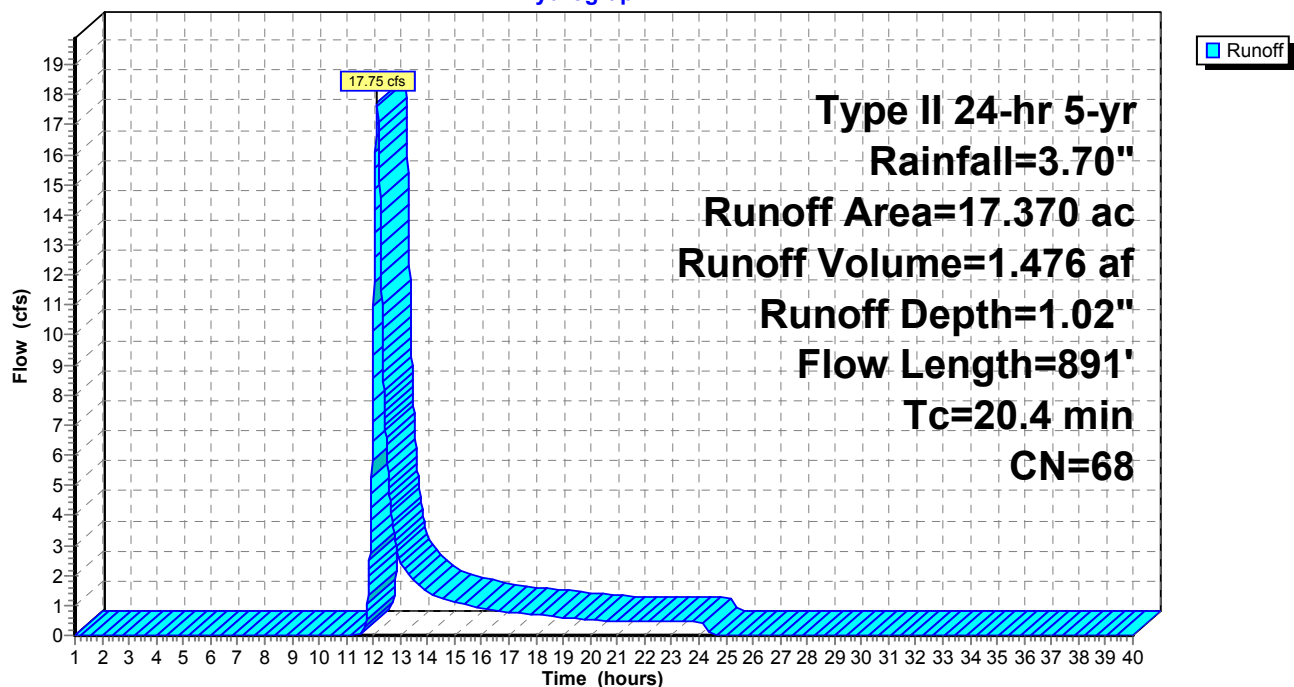
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
17.370	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	891	0.0400	0.7		Lag/CN Method,

Subcatchment A6: A6

Hydrograph



Subcatchment A7: A7

Runoff = 4.76 cfs @ 12.25 hrs, Volume= 0.692 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

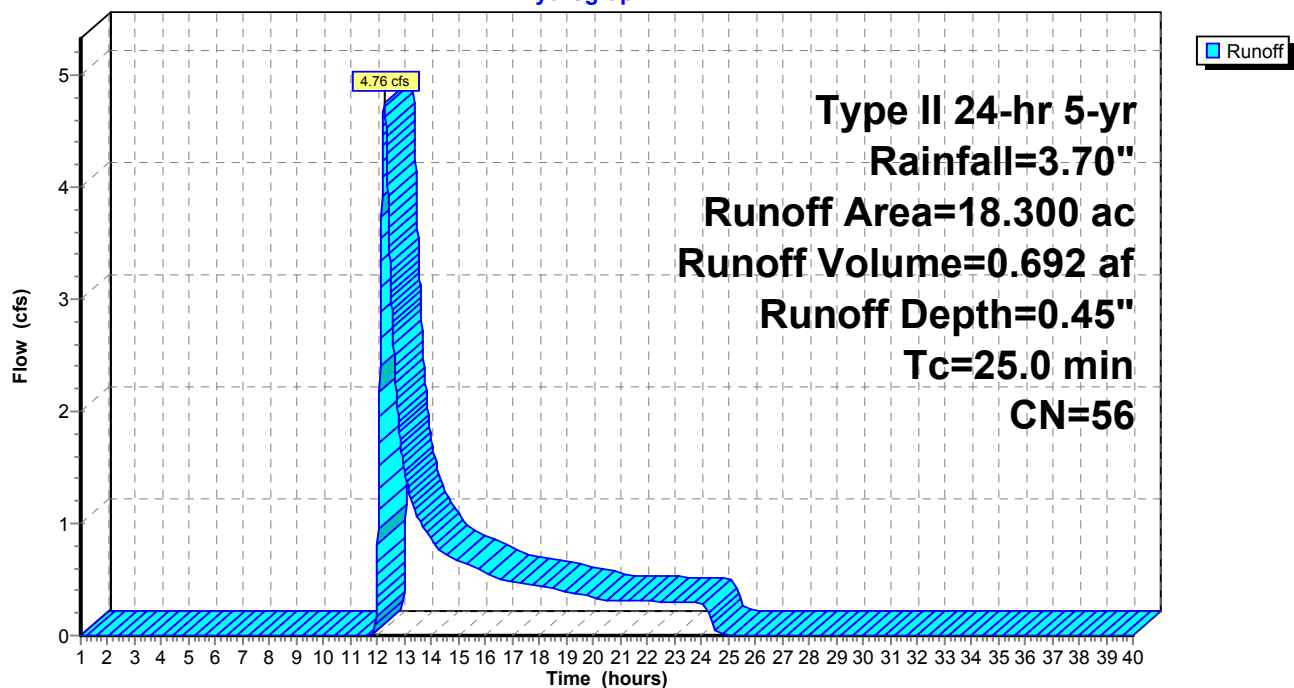
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
1.000	100	WATER
3.000	70	FARM
7.300	64	Row crops, C + CR, Good, HSG A
7.000	36	Woods, Fair, HSG A
18.300	56	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.0					Direct Entry,

Subcatchment A7: A7

Hydrograph



Subcatchment A9: A9

Runoff = 11.44 cfs @ 12.05 hrs, Volume= 0.866 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

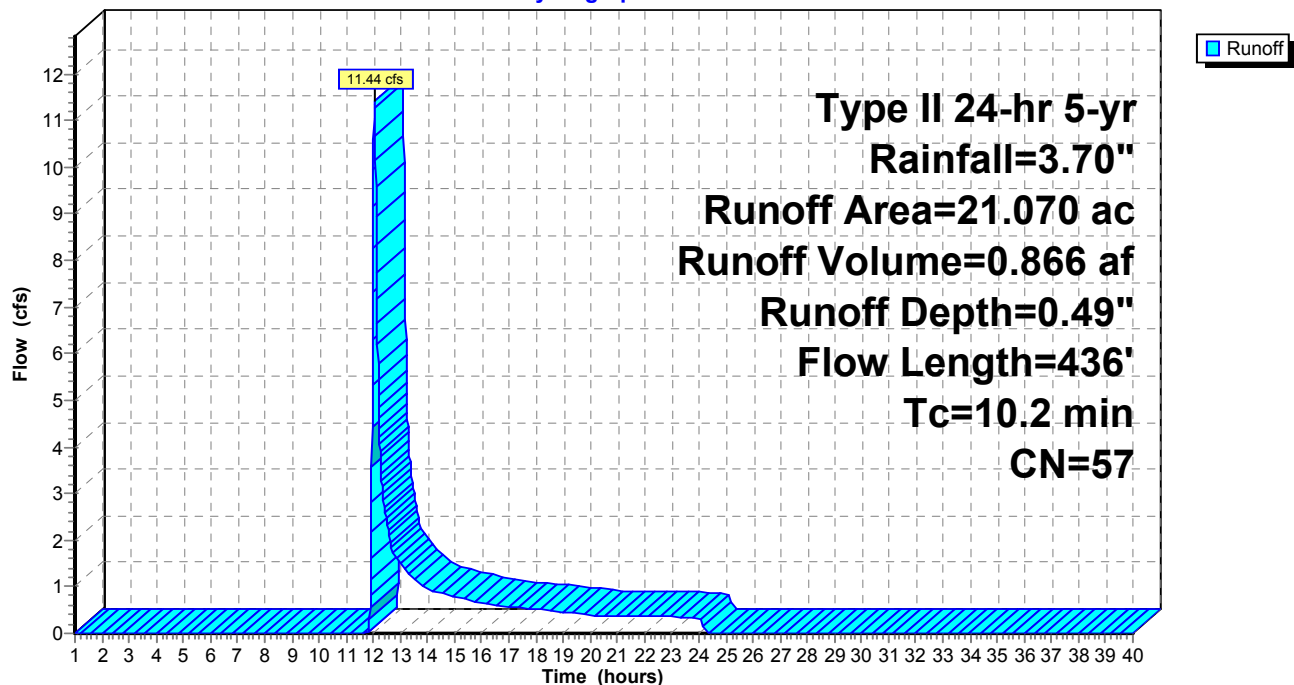
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
21.070	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	436	0.0900	0.7		Lag/CN Method,

Subcatchment A9: A9

Hydrograph



Subcatchment B1: B1

Runoff = 35.39 cfs @ 12.29 hrs, Volume= 3.752 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

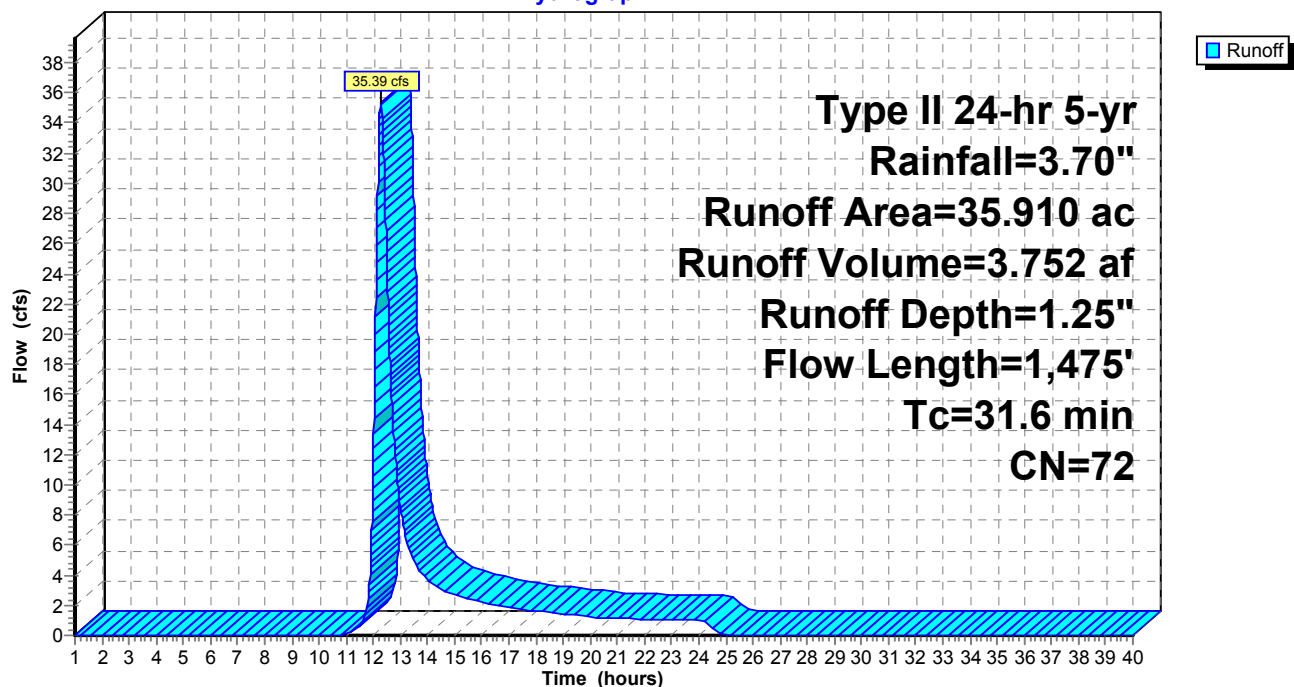
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
35.910	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.6	1,475	0.0300	0.8		Lag/CN Method,

Subcatchment B1: B1

Hydrograph



Subcatchment B10: B10

Runoff = 13.67 cfs @ 11.97 hrs, Volume= 0.617 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

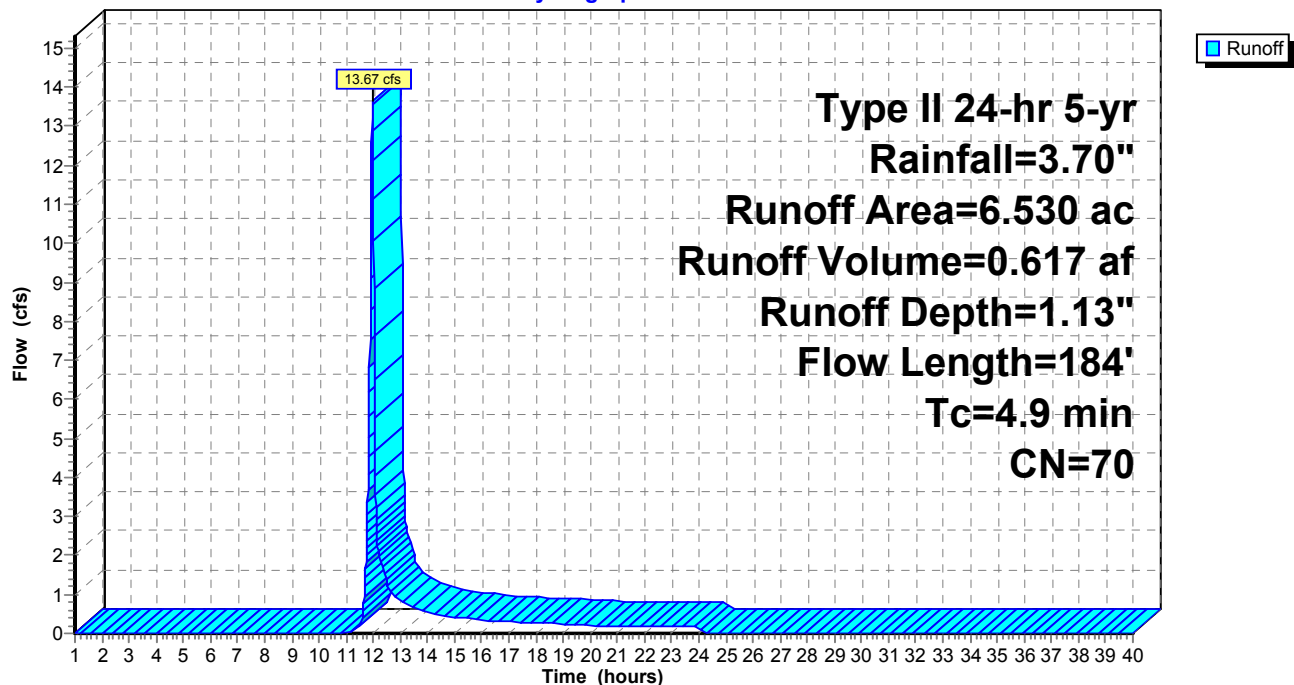
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
6.530	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	184	0.0500	0.6		Lag/CN Method,

Subcatchment B10: B10

Hydrograph



Subcatchment B11: B11

Runoff = 10.39 cfs @ 12.36 hrs, Volume= 1.230 af, Depth= 1.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

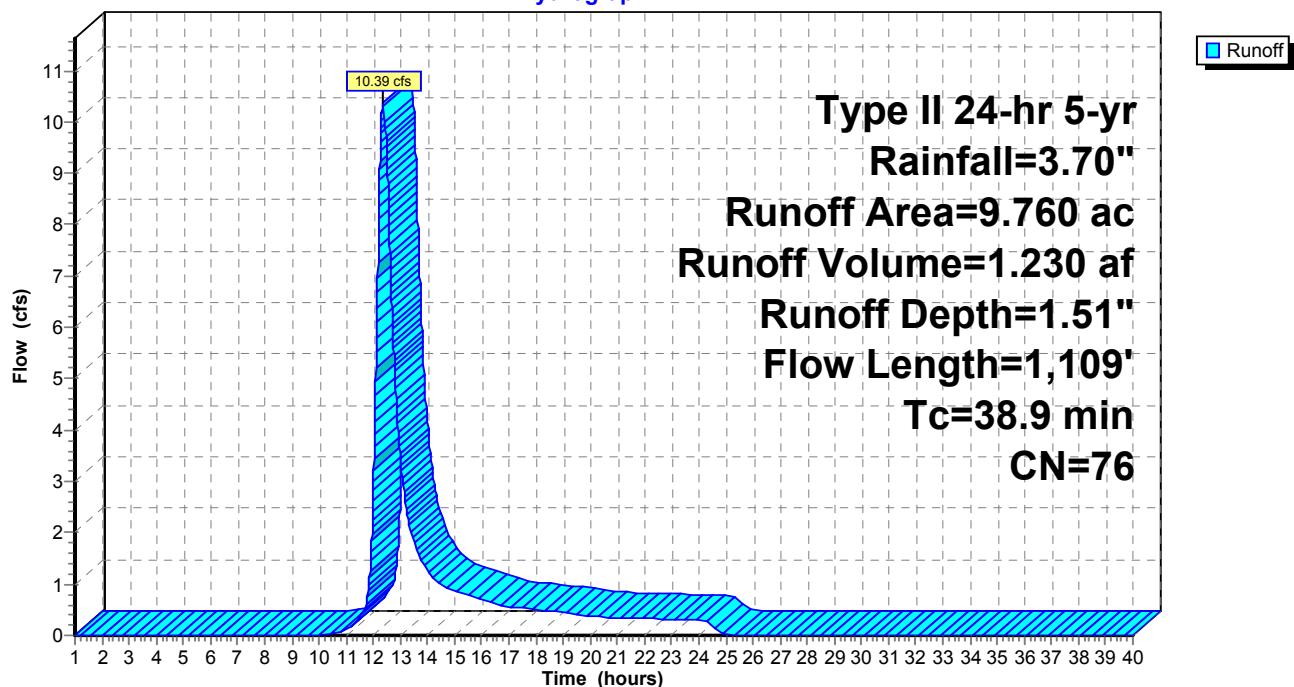
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.760	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.9	1,109	0.0100	0.5		Lag/CN Method,

Subcatchment B11: B11

Hydrograph



Subcatchment B12: B12

Runoff = 11.49 cfs @ 11.99 hrs, Volume= 0.577 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

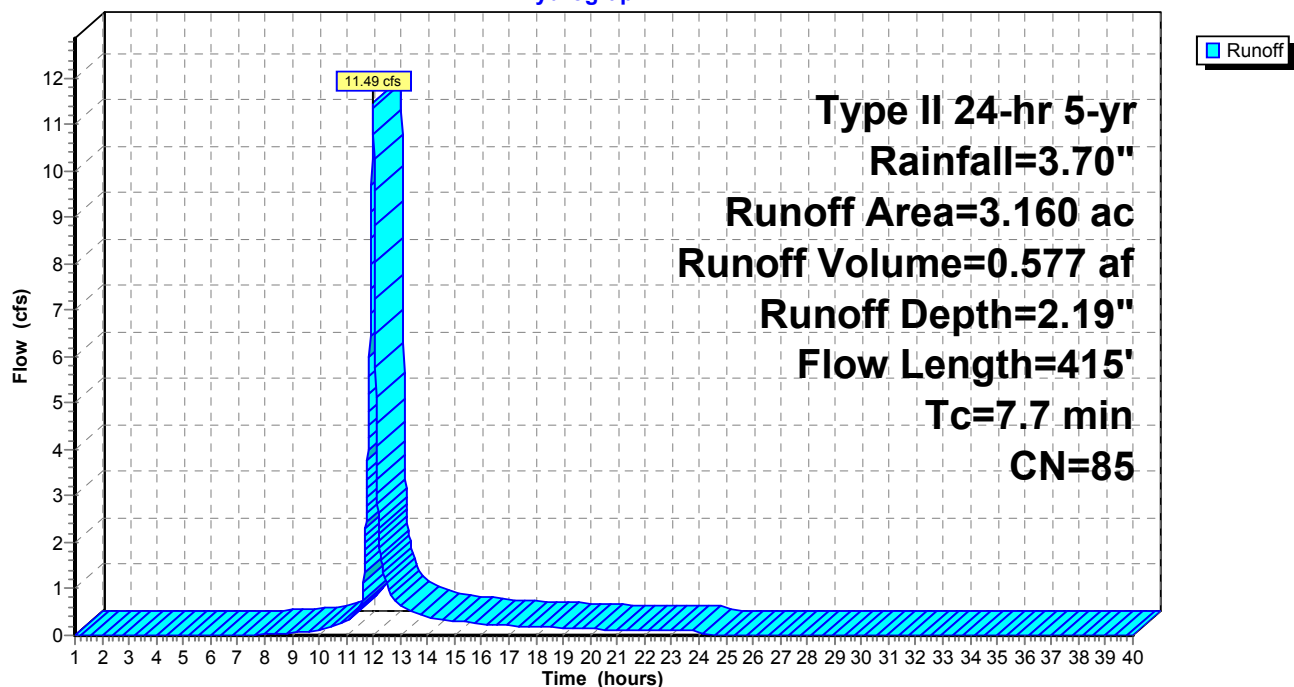
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
3.160	85	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	415	0.0300	0.9		Lag/CN Method,

Subcatchment B12: B12

Hydrograph



Subcatchment B13: B13

Runoff = 14.29 cfs @ 12.01 hrs, Volume= 0.750 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

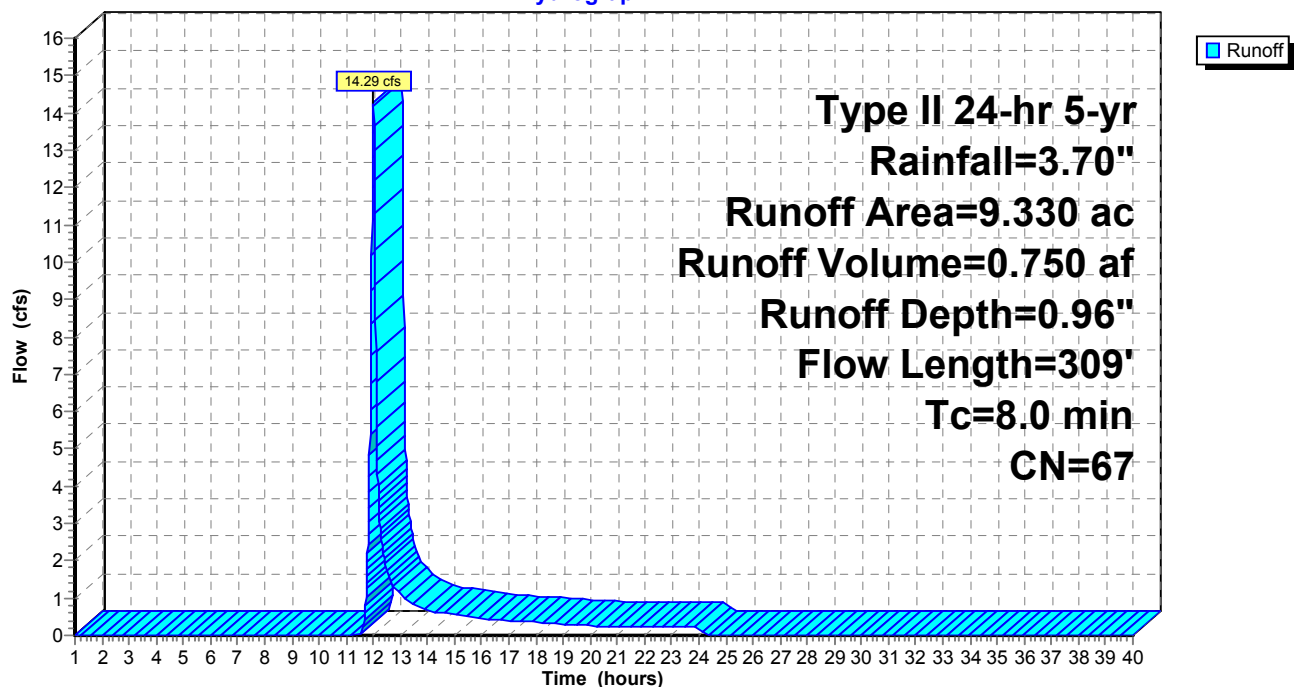
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.330	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	309	0.0500	0.6		Lag/CN Method,

Subcatchment B13: B13

Hydrograph



Subcatchment B2: B2

Runoff = 12.20 cfs @ 12.02 hrs, Volume= 0.697 af, Depth= 0.71"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

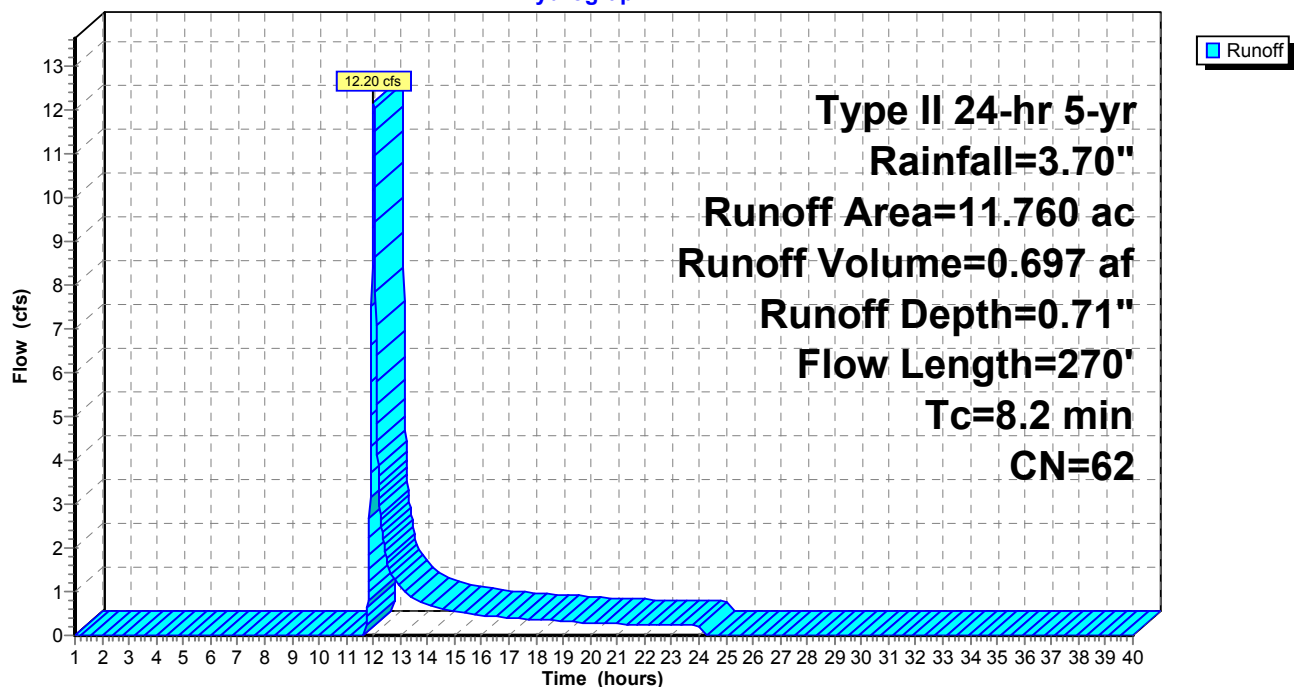
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
11.760	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	270	0.0500	0.5		Lag/CN Method,

Subcatchment B2: B2

Hydrograph



Subcatchment B3: B3

Runoff = 18.87 cfs @ 11.96 hrs, Volume= 0.822 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

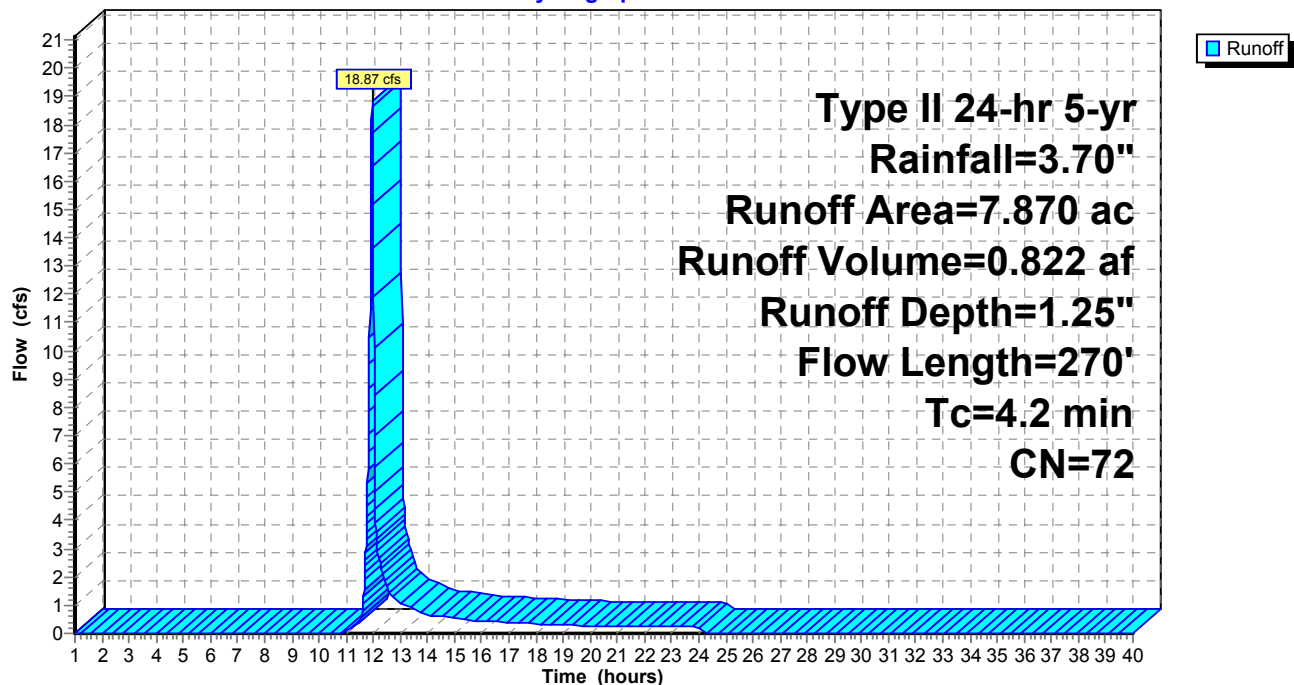
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.870	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	270	0.1100	1.1		Lag/CN Method,

Subcatchment B3: B3

Hydrograph



Subcatchment B4: B4

Runoff = 3.04 cfs @ 12.37 hrs, Volume= 0.420 af, Depth= 0.71"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

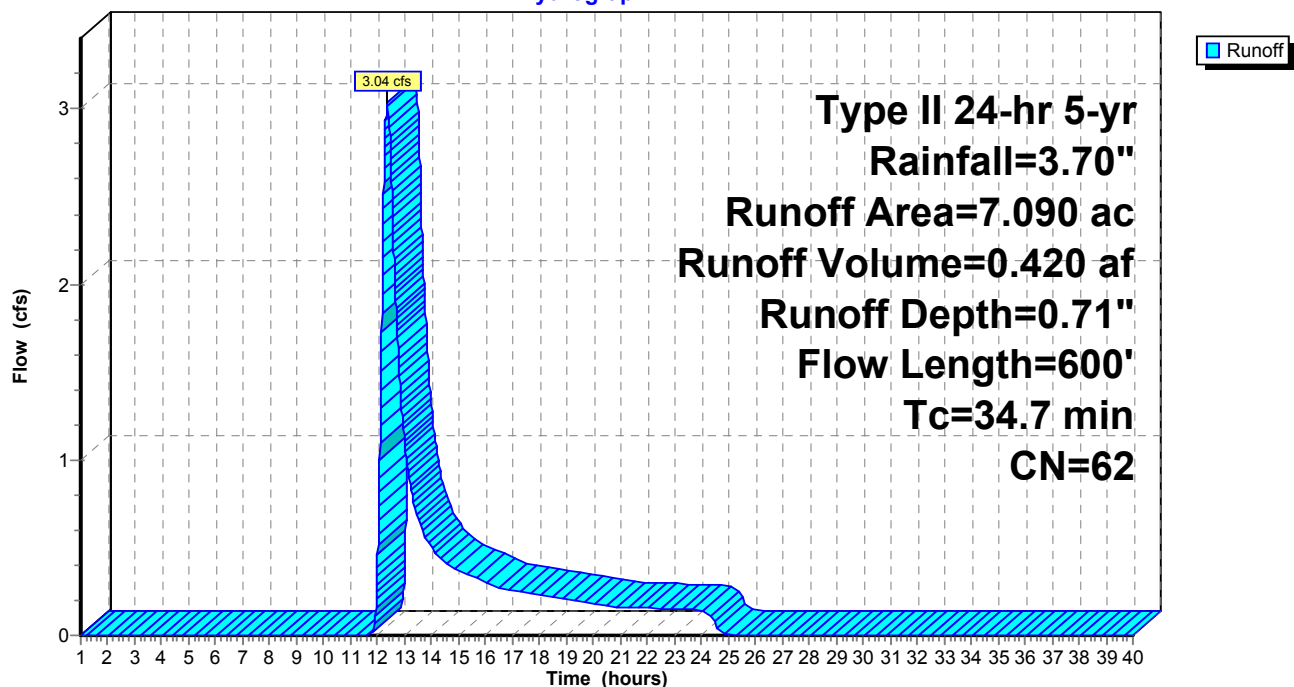
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.090	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.7	600	0.0100	0.3		Lag/CN Method,

Subcatchment B4: B4

Hydrograph



Subcatchment B5: B5

Runoff = 46.42 cfs @ 12.03 hrs, Volume= 2.648 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

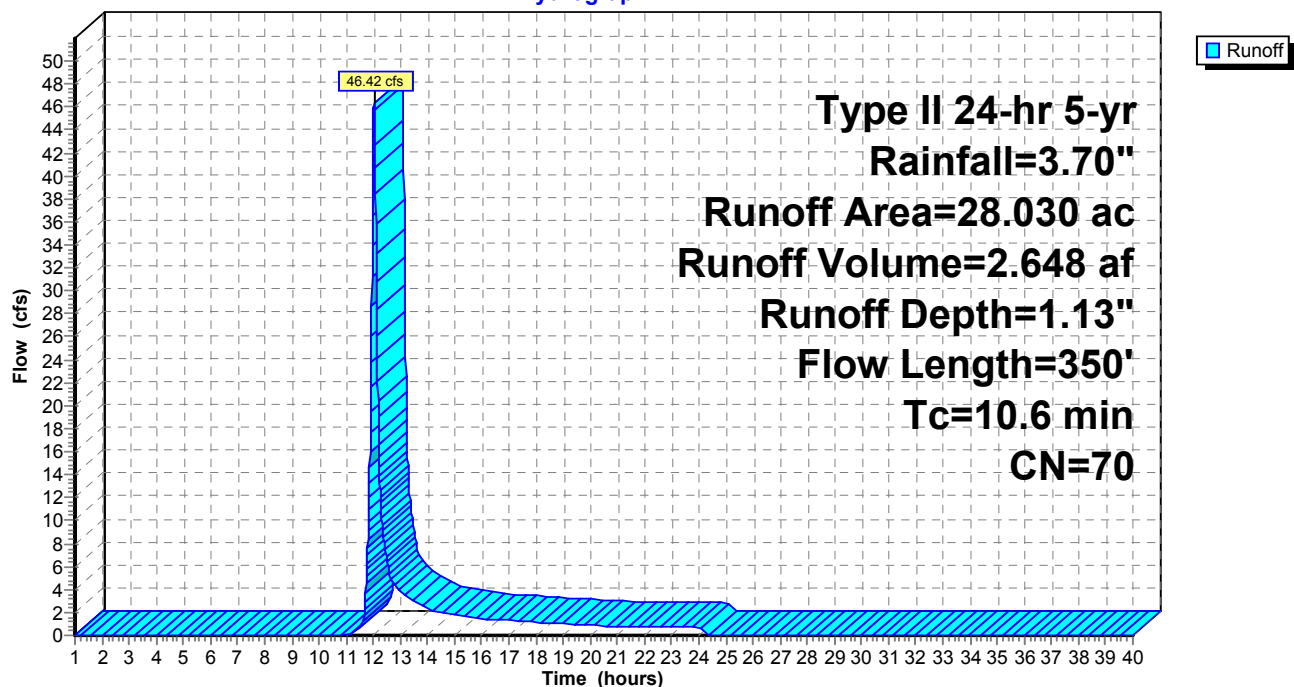
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
28.030	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	350	0.0300	0.6		Lag/CN Method,

Subcatchment B5: B5

Hydrograph



Subcatchment B6: B6

Runoff = 25.14 cfs @ 12.02 hrs, Volume= 1.365 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

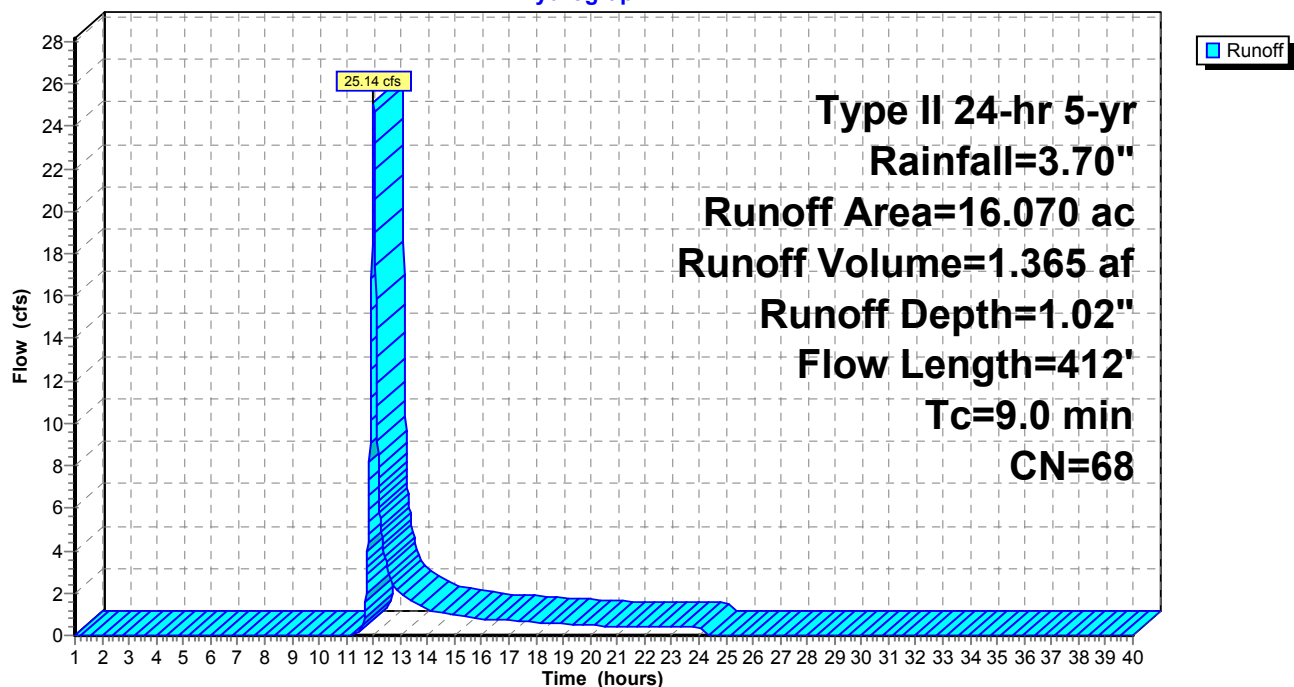
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
16.070	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	412	0.0600	0.8		Lag/CN Method,

Subcatchment B6: B6

Hydrograph



Subcatchment B7: B7

Runoff = 7.81 cfs @ 12.38 hrs, Volume= 1.037 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

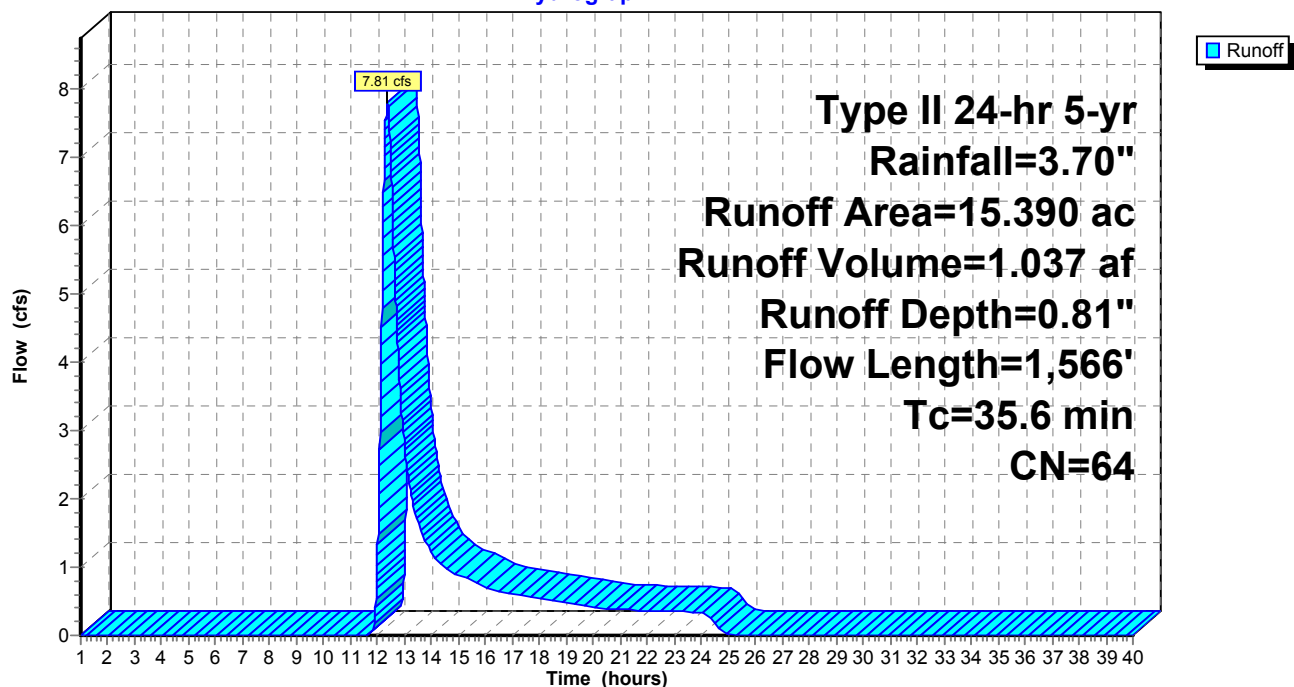
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
15.390	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.6	1,566	0.0400	0.7		Lag/CN Method,

Subcatchment B7: B7

Hydrograph



Subcatchment B8: B8

Runoff = 12.42 cfs @ 12.07 hrs, Volume= 0.789 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

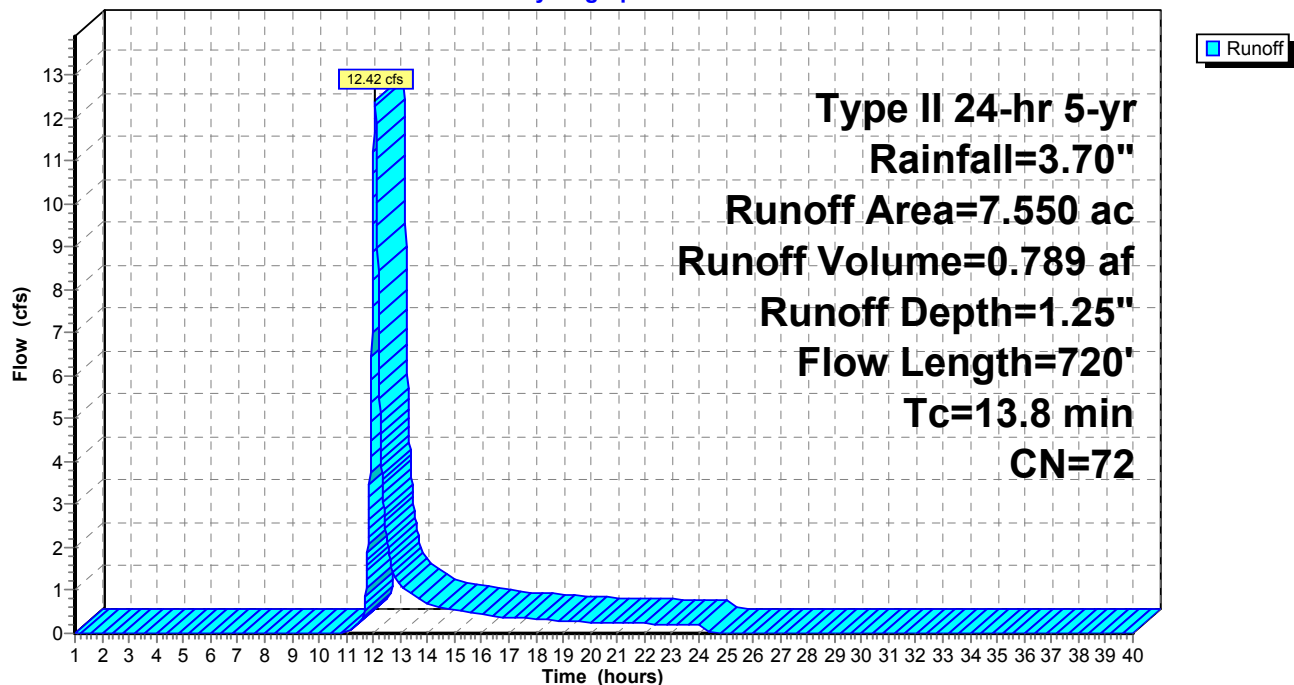
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.550	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	720	0.0500	0.9		Lag/CN Method,

Subcatchment B8: B8

Hydrograph



Subcatchment B9: B9

Runoff = 15.24 cfs @ 12.22 hrs, Volume= 1.486 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

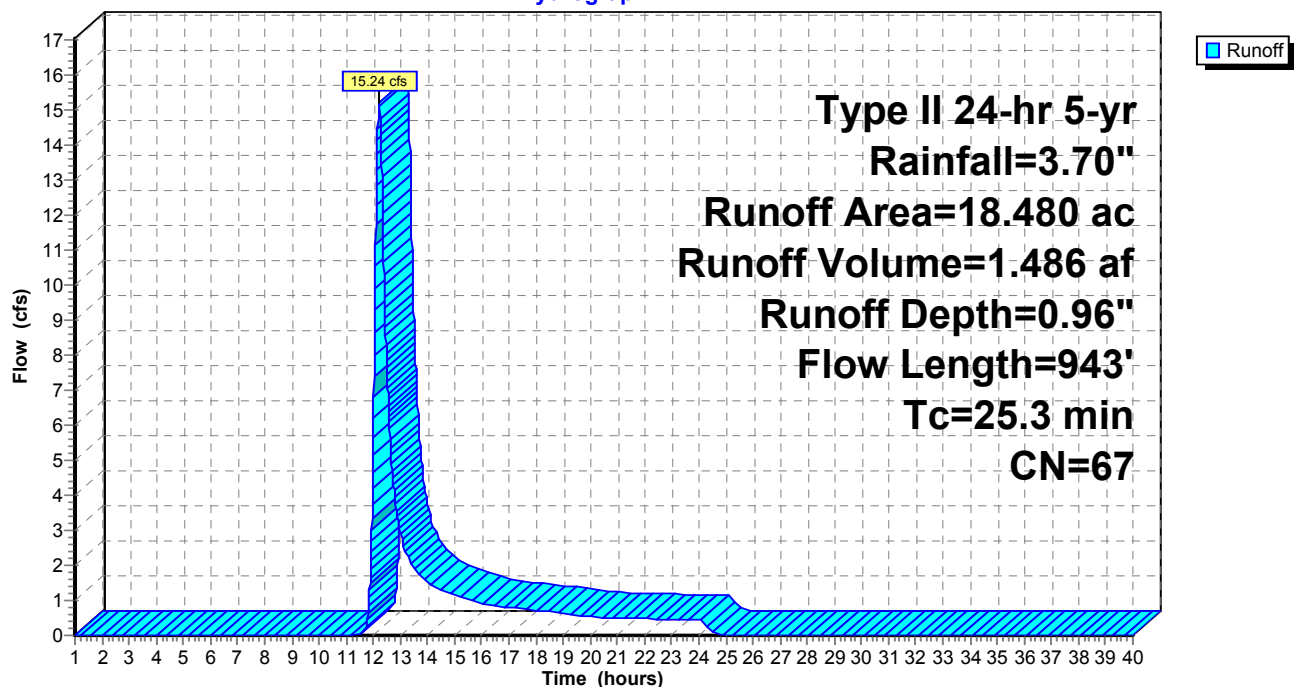
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.480	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	943	0.0300	0.6		Lag/CN Method,

Subcatchment B9: B9

Hydrograph



Subcatchment C1: C1

Runoff = 24.24 cfs @ 12.11 hrs, Volume= 1.739 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

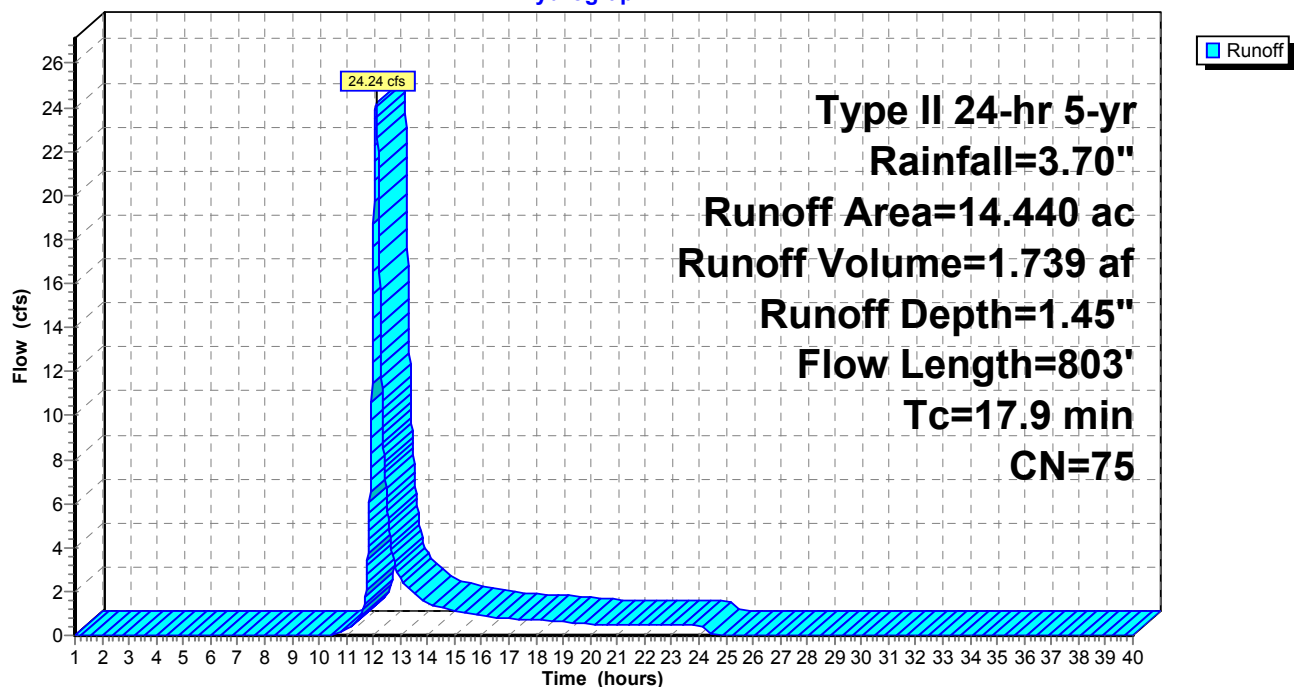
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
14.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.9	803	0.0300	0.7		Lag/CN Method,

Subcatchment C1: C1

Hydrograph



Subcatchment C3: C3

Runoff = 30.40 cfs @ 12.99 hrs, Volume= 6.271 af, Depth= 1.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

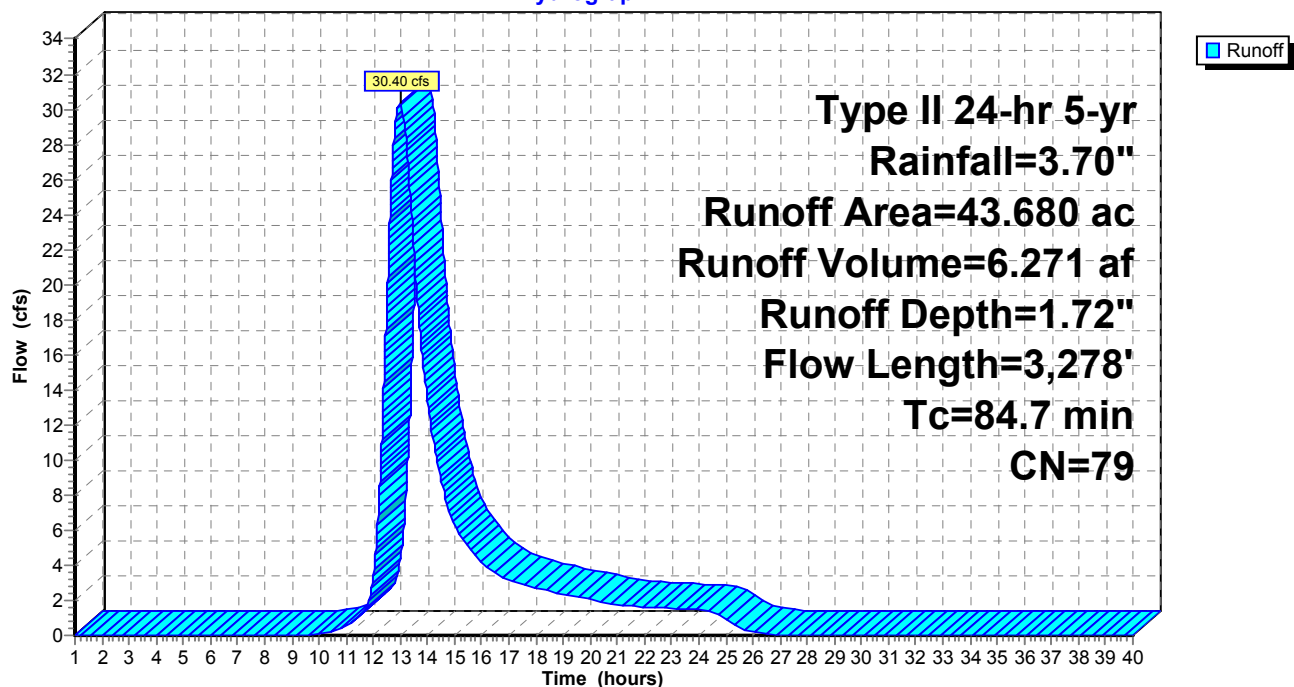
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
43.680	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
84.7	3,278	0.0100	0.6		Lag/CN Method,

Subcatchment C3: C3

Hydrograph



Subcatchment C4: C4

Runoff = 27.29 cfs @ 11.98 hrs, Volume= 1.352 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

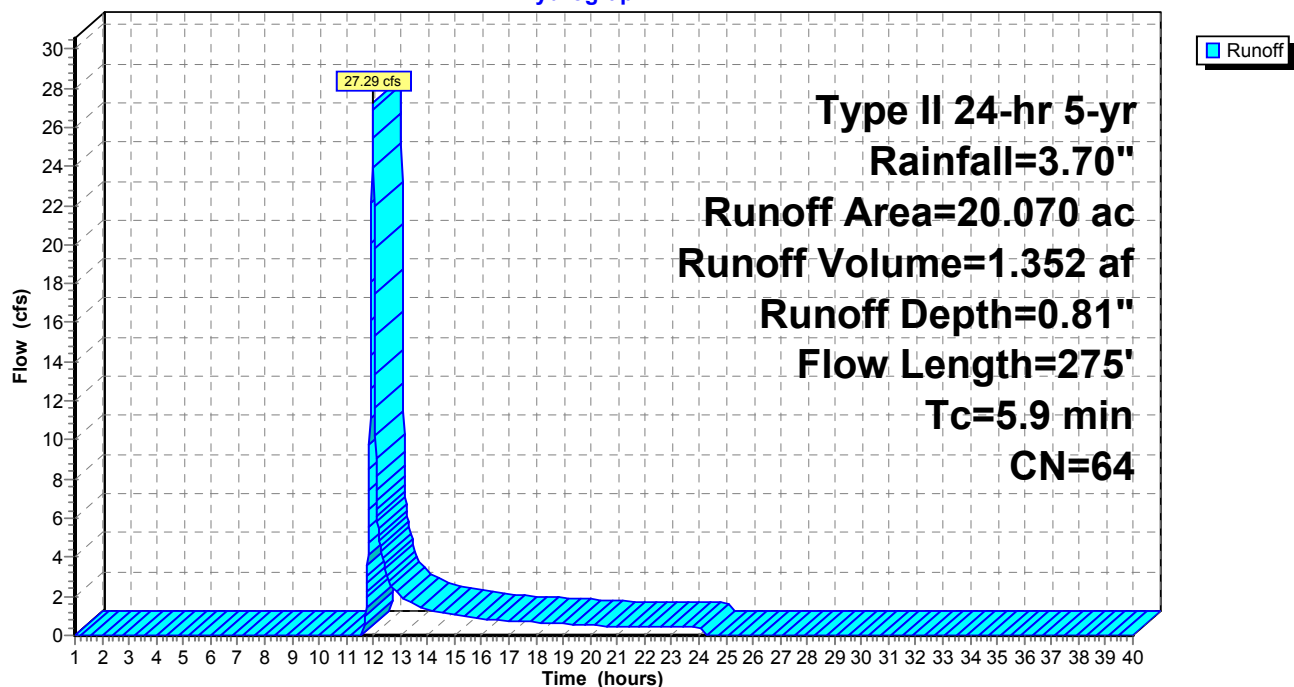
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
20.070	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	275	0.0900	0.8		Lag/CN Method,

Subcatchment C4: C4

Hydrograph



Subcatchment C5: C5

Runoff = 14.59 cfs @ 12.19 hrs, Volume= 1.351 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

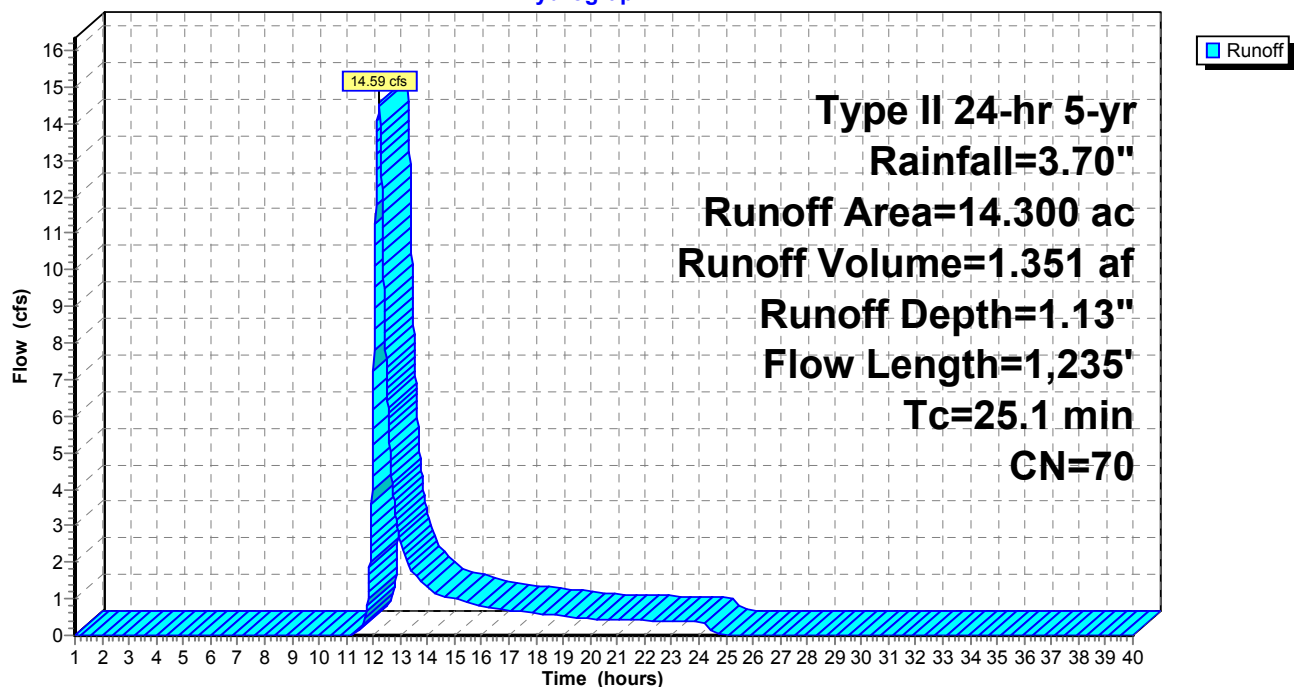
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
14.300	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,235	0.0400	0.8		Lag/CN Method,

Subcatchment C5: C5

Hydrograph



Subcatchment C6: C6

Runoff = 25.82 cfs @ 11.97 hrs, Volume= 1.198 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

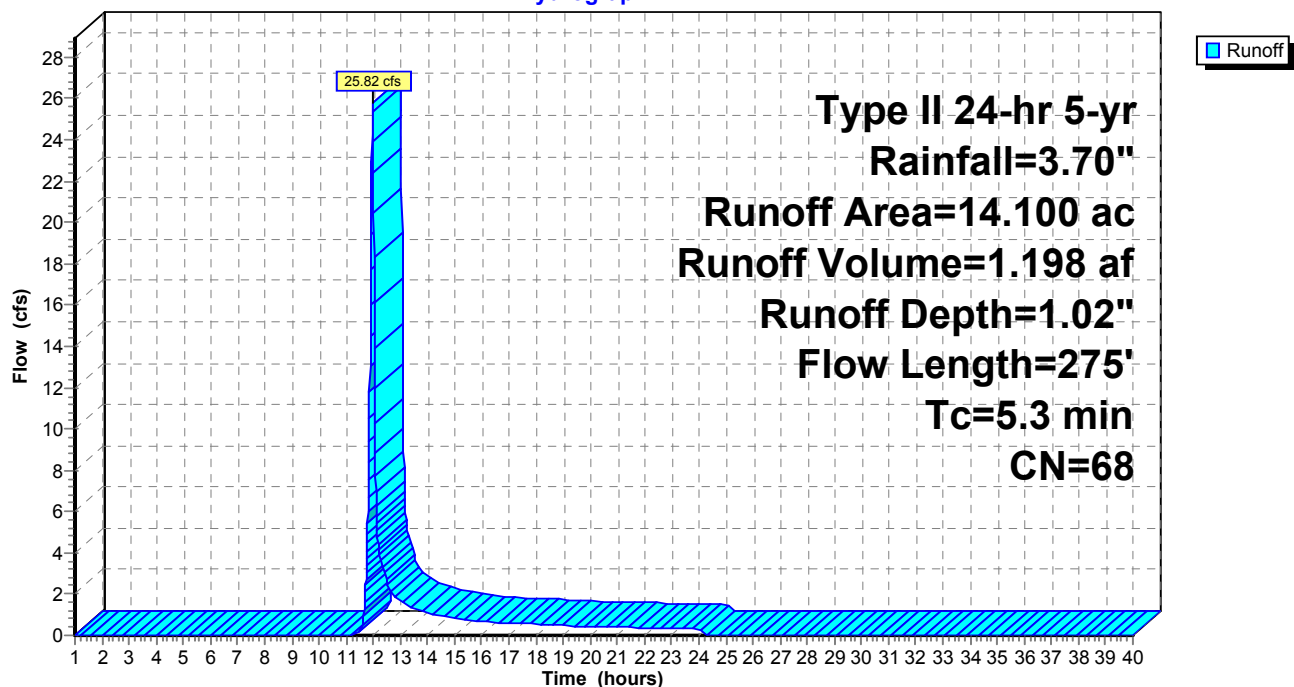
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
14.100	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	275	0.0900	0.9		Lag/CN Method,

Subcatchment C6: C6

Hydrograph



Subcatchment C7: C7

Runoff = 21.89 cfs @ 11.96 hrs, Volume= 0.977 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

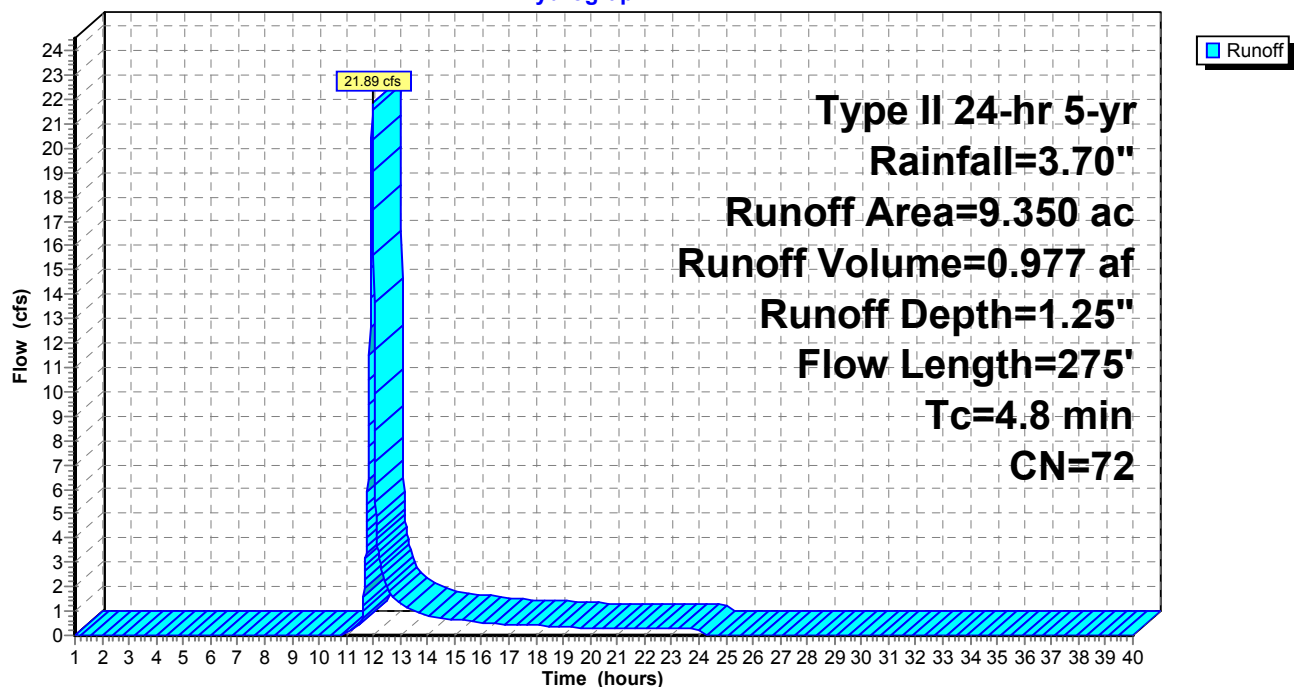
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.350	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	275	0.0900	1.0		Lag/CN Method,

Subcatchment C7: C7

Hydrograph



Subcatchment C8: C8

Runoff = 16.04 cfs @ 11.94 hrs, Volume= 0.655 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

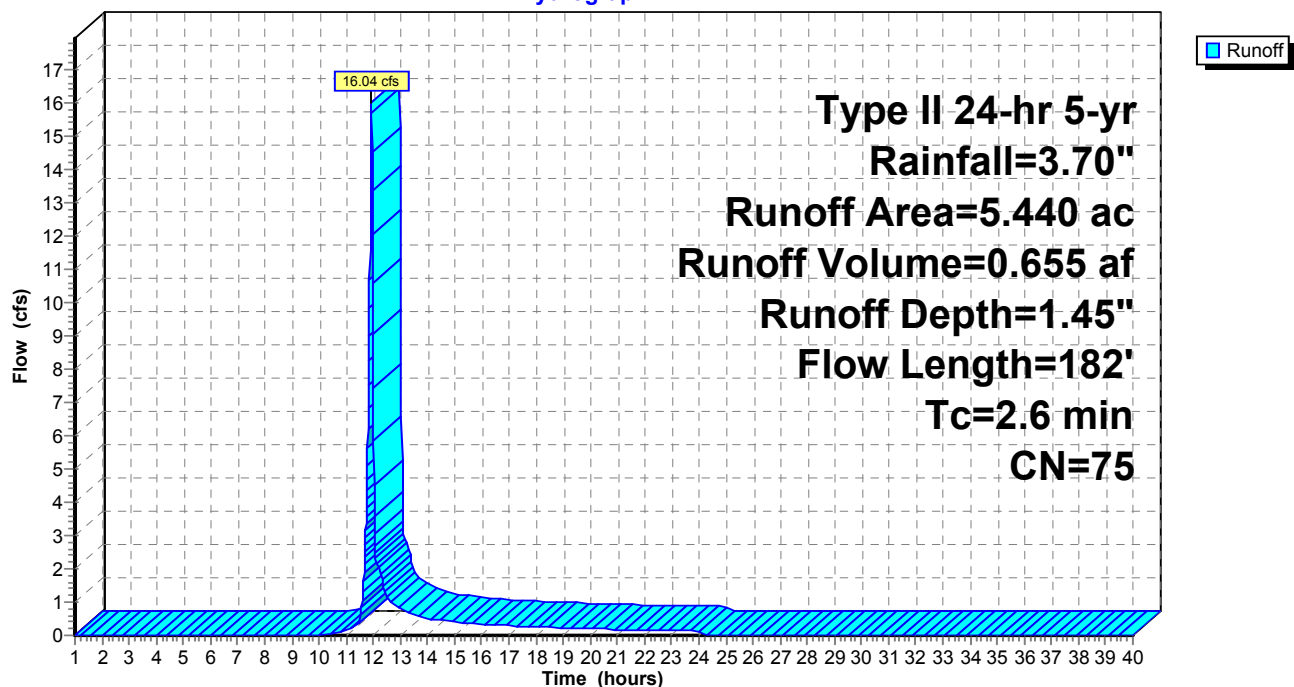
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	182	0.1300	1.2		Lag/CN Method,

Subcatchment C8: C8

Hydrograph



Subcatchment W100: W100

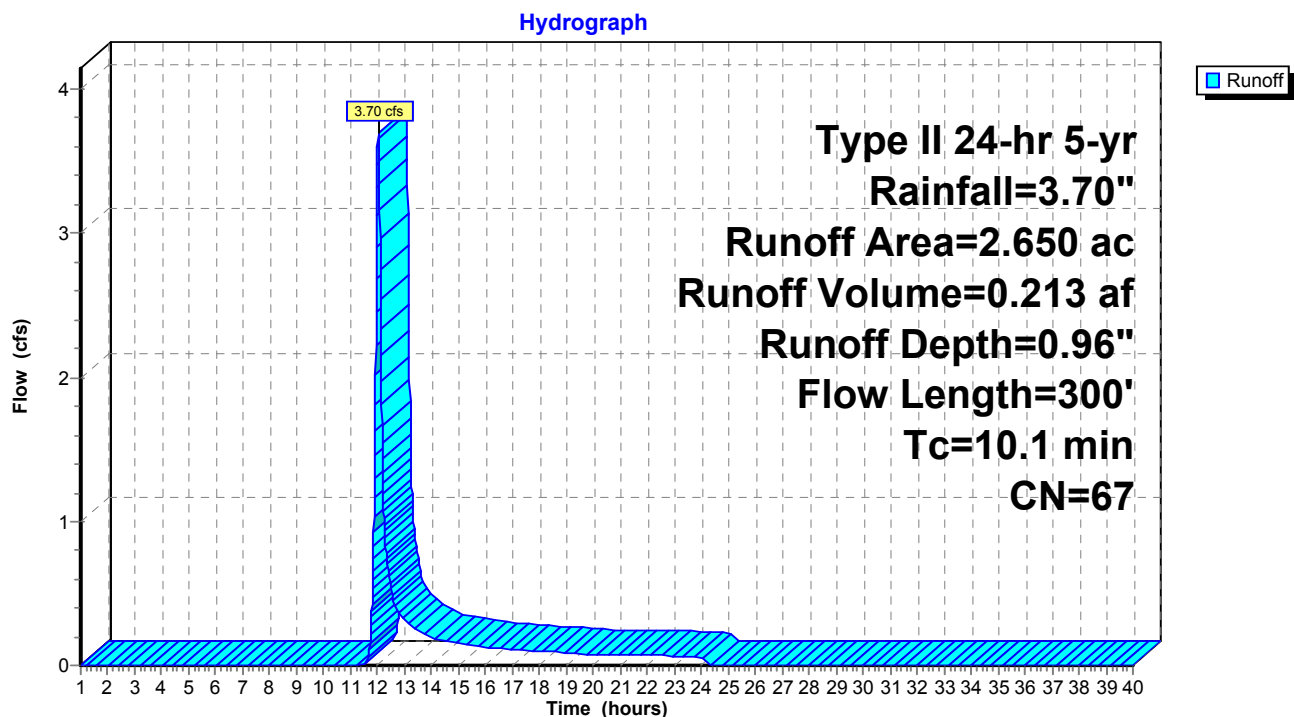
Runoff = 3.70 cfs @ 12.03 hrs, Volume= 0.213 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
2.650	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	300	0.0300	0.5		Lag/CN Method,

Subcatchment W100: W100

Subcatchment W101: W101

Runoff = 16.70 cfs @ 12.35 hrs, Volume= 2.007 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

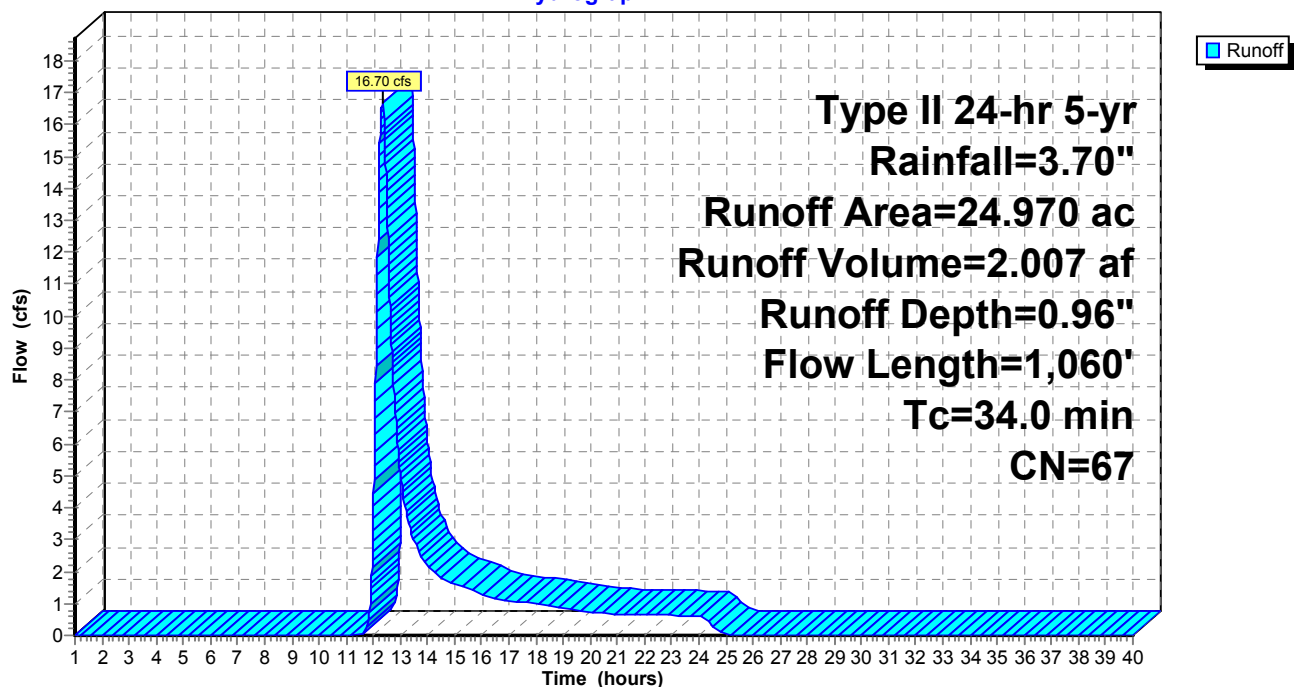
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
24.970	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.0	1,060	0.0200	0.5		Lag/CN Method,

Subcatchment W101: W101

Hydrograph



Subcatchment W102: W102

Runoff = 84.43 cfs @ 12.20 hrs, Volume= 7.426 af, Depth= 1.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

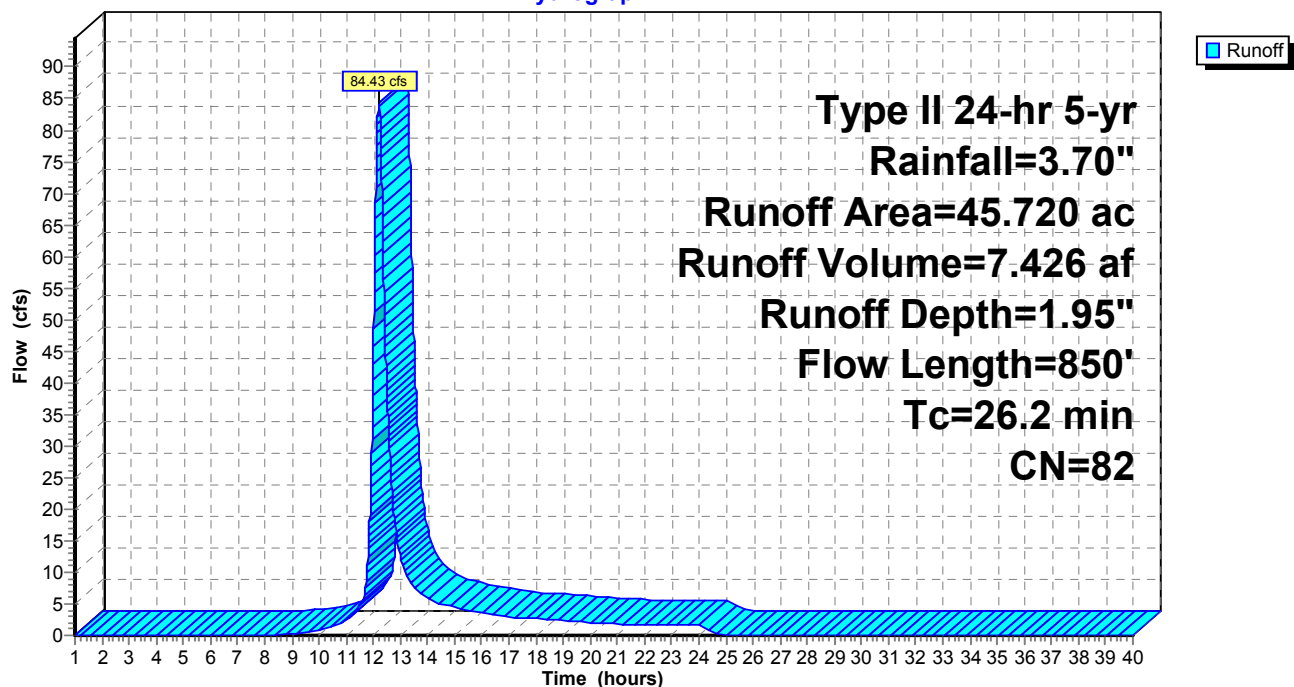
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
45.720	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.2	850	0.0100	0.5		Lag/CN Method,

Subcatchment W102: W102

Hydrograph



Subcatchment W103: W103

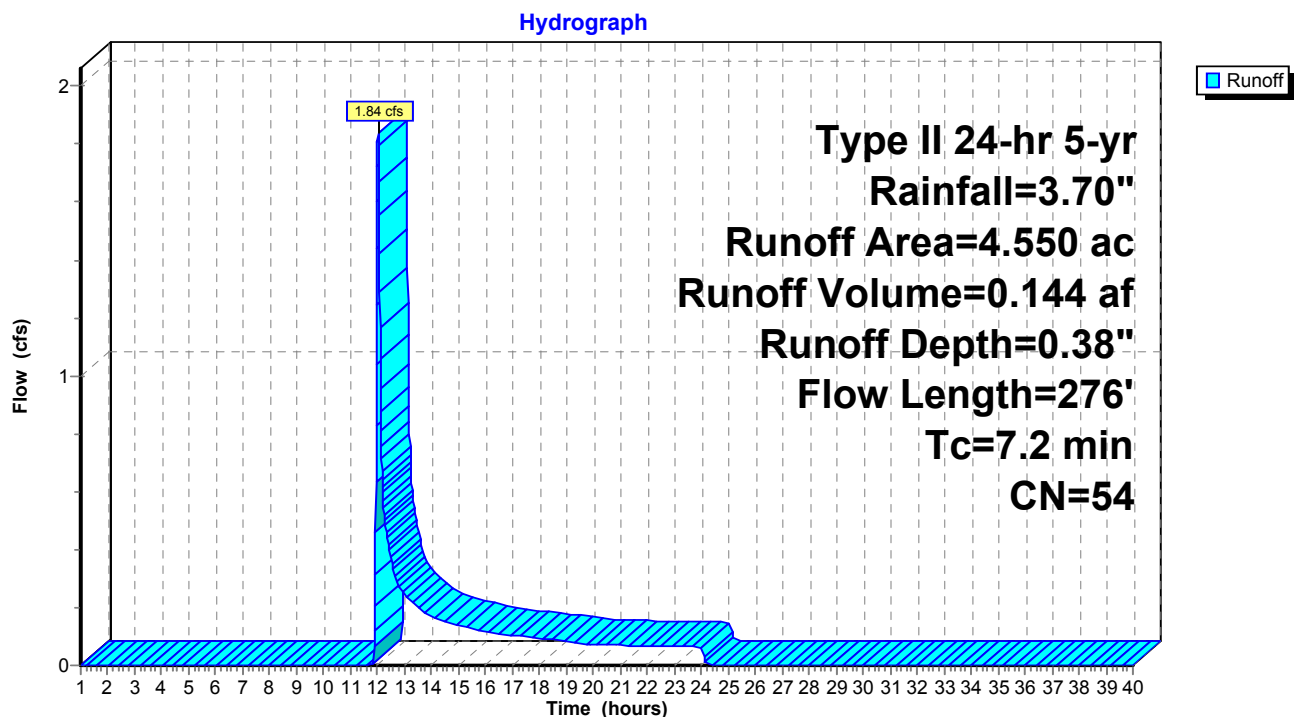
Runoff = 1.84 cfs @ 12.02 hrs, Volume= 0.144 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.550	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	276	0.1000	0.6		Lag/CN Method,

Subcatchment W103: W103

Subcatchment W104: W104

Runoff = 68.65 cfs @ 12.26 hrs, Volume= 6.905 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

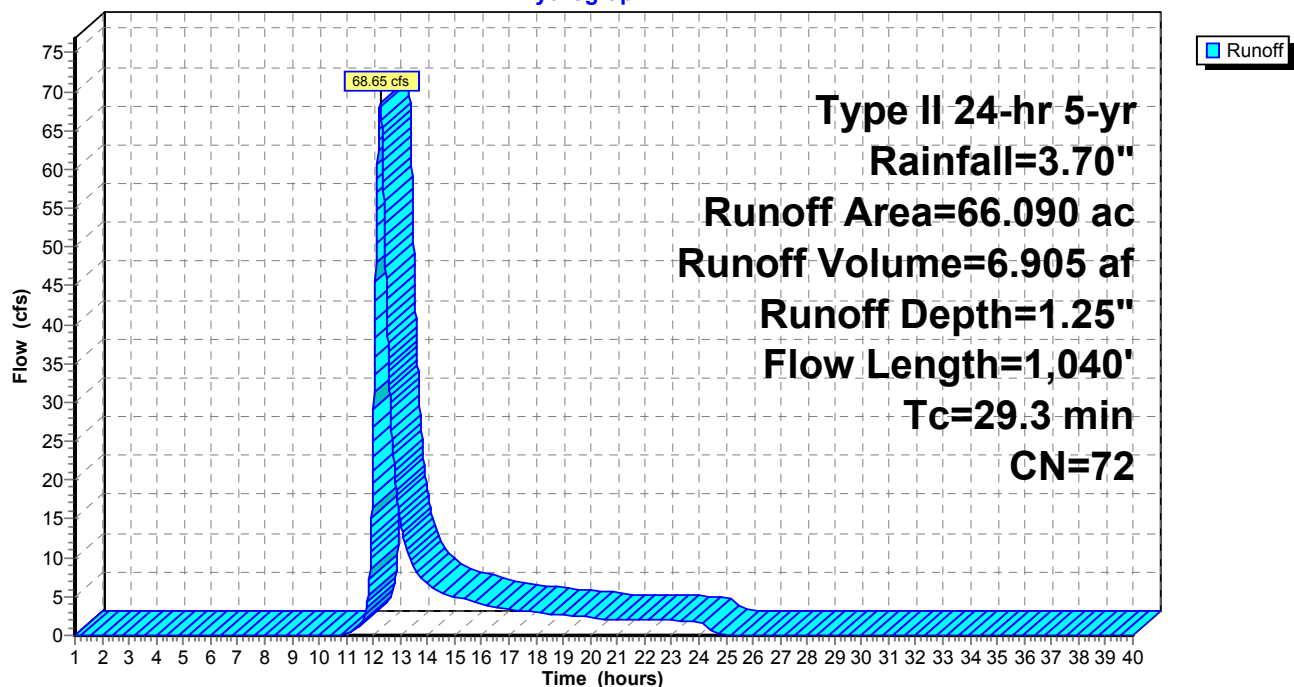
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
66.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.3	1,040	0.0200	0.6		Lag/CN Method,

Subcatchment W104: W104

Hydrograph



Subcatchment W105: W105

Runoff = 7.55 cfs @ 12.10 hrs, Volume= 0.613 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

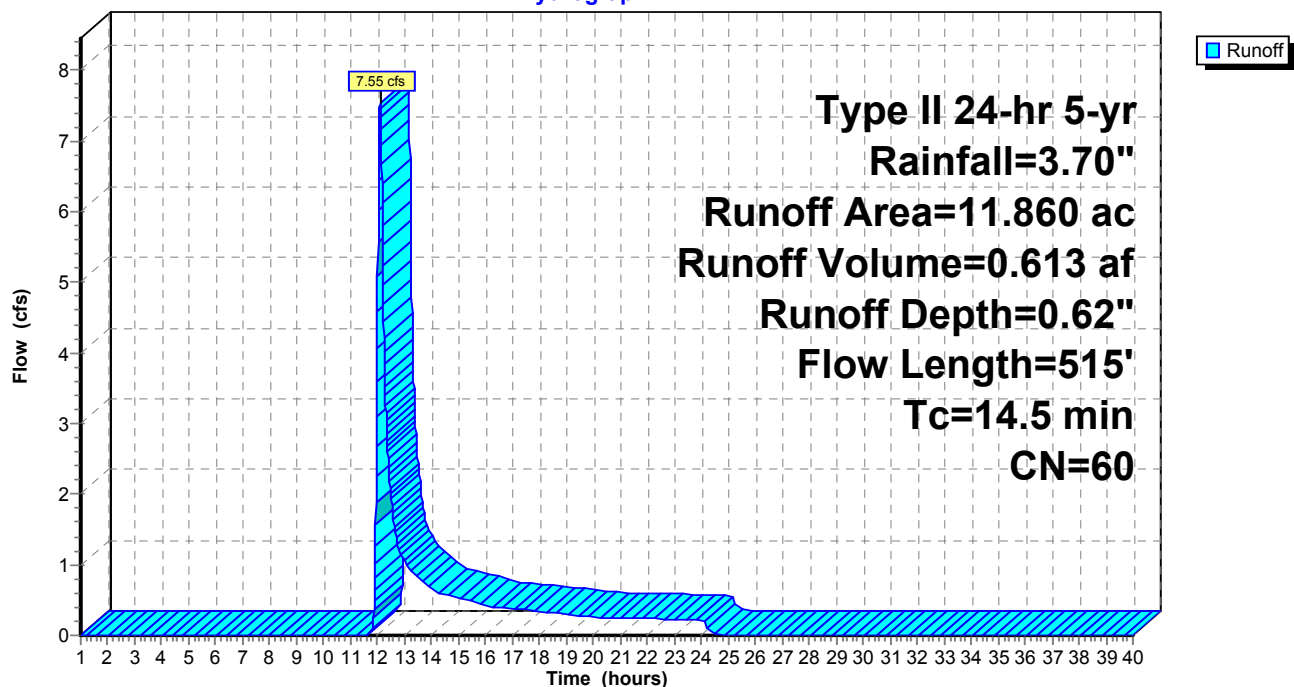
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
11.860	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	515	0.0500	0.6		Lag/CN Method,

Subcatchment W105: W105

Hydrograph



Subcatchment W106: W106

Runoff = 33.54 cfs @ 11.97 hrs, Volume= 1.552 af, Depth= 2.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

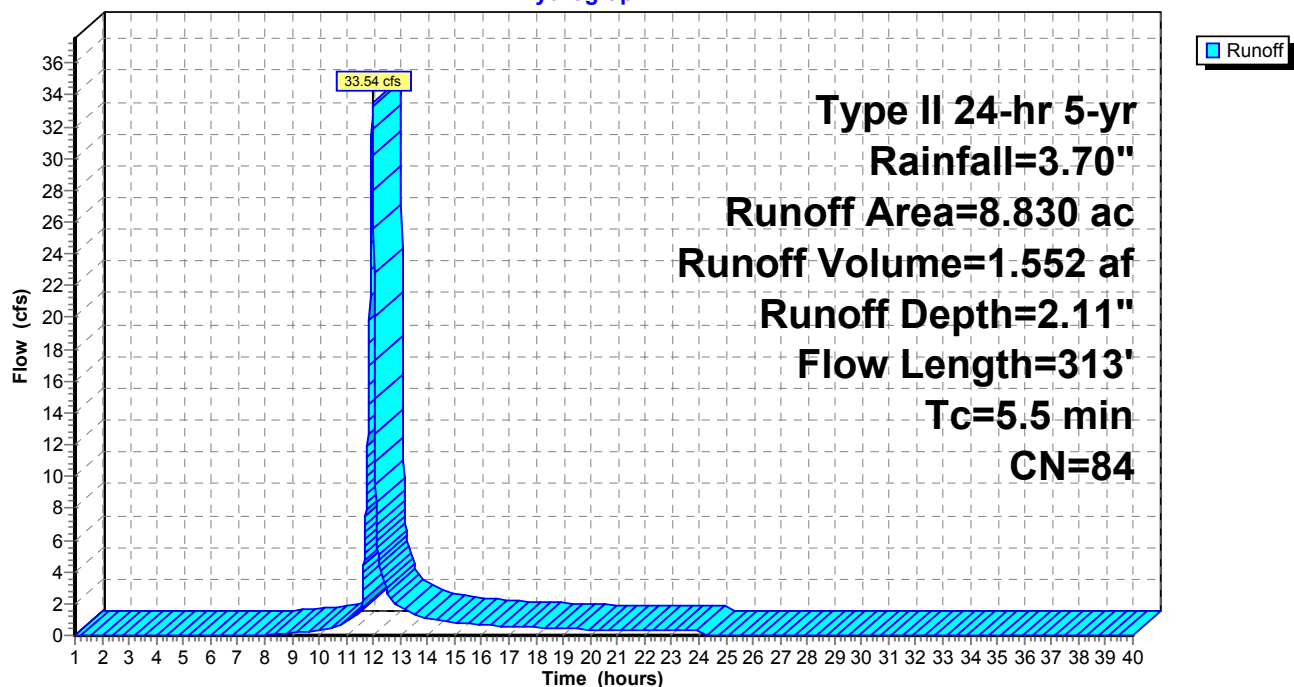
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.830	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	313	0.0400	0.9		Lag/CN Method,

Subcatchment W106: W106

Hydrograph



Subcatchment W107: W107

Runoff = 49.30 cfs @ 12.08 hrs, Volume= 3.247 af, Depth= 1.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

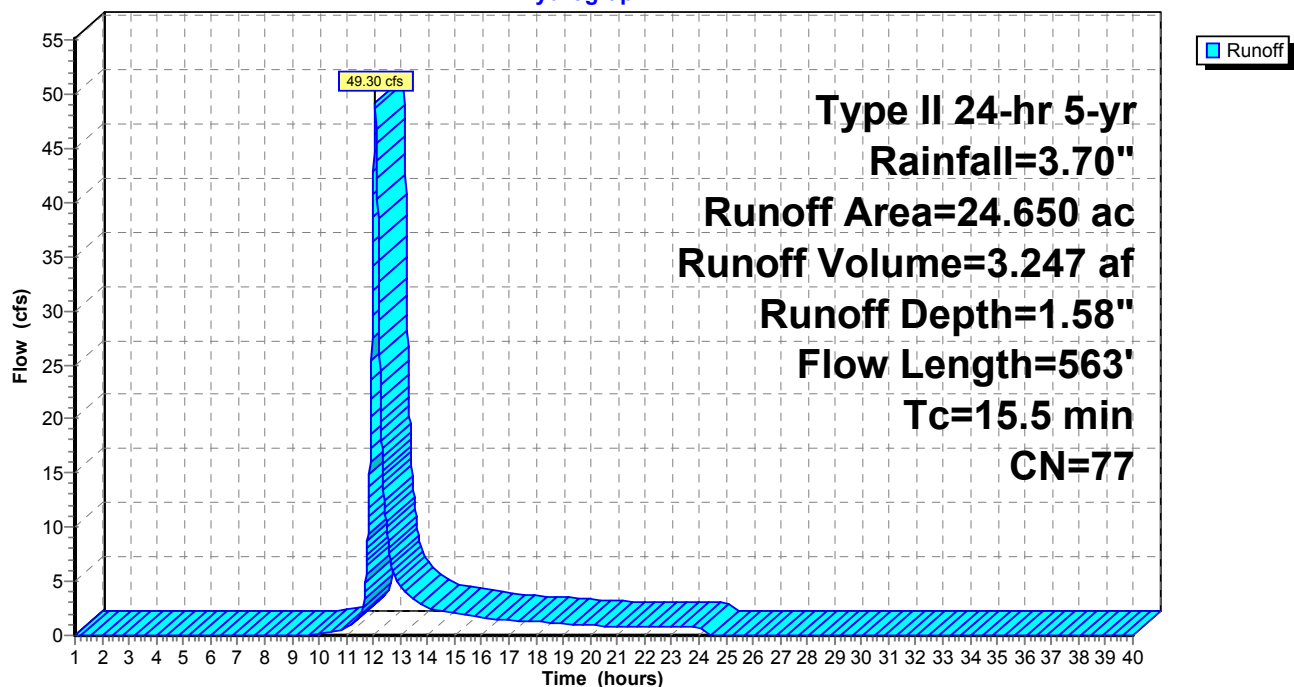
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
24.650	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	563	0.0200	0.6		Lag/CN Method,

Subcatchment W107: W107

Hydrograph



Subcatchment W108: W108

Runoff = 16.06 cfs @ 12.10 hrs, Volume= 1.127 af, Depth= 1.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

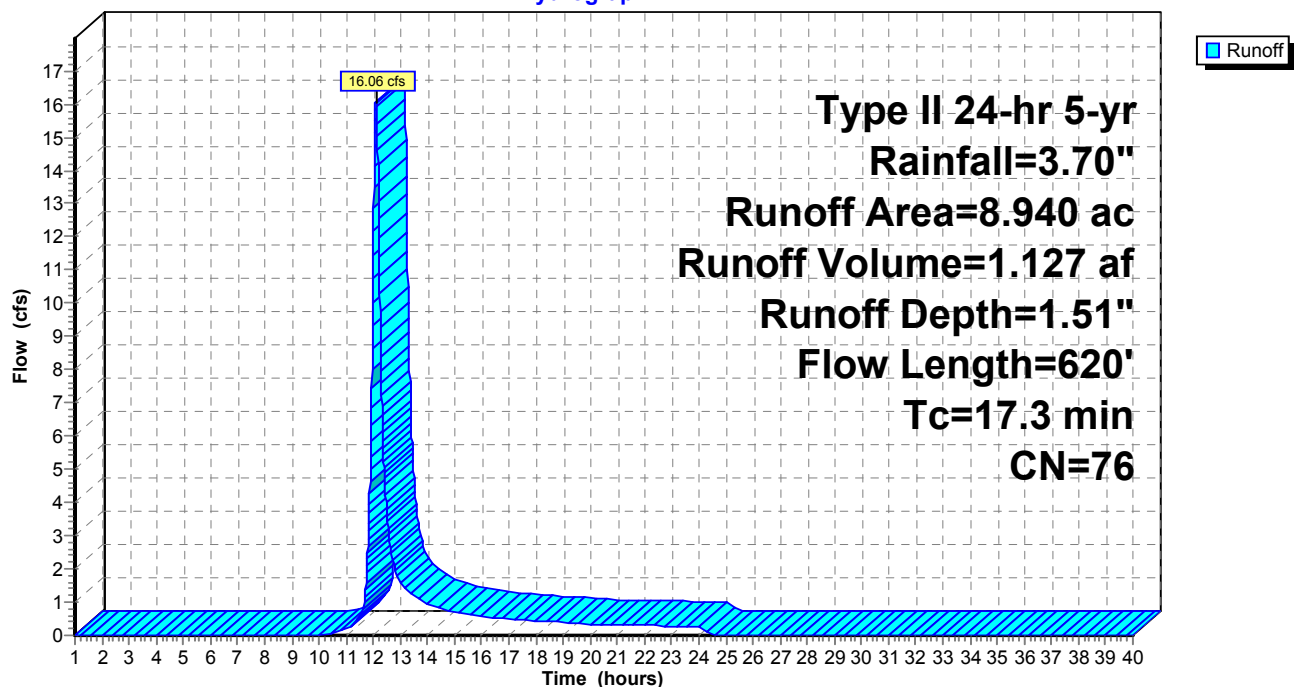
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.940	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	620	0.0200	0.6		Lag/CN Method,

Subcatchment W108: W108

Hydrograph



Subcatchment W109: W109

Runoff = 5.48 cfs @ 12.24 hrs, Volume= 0.562 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

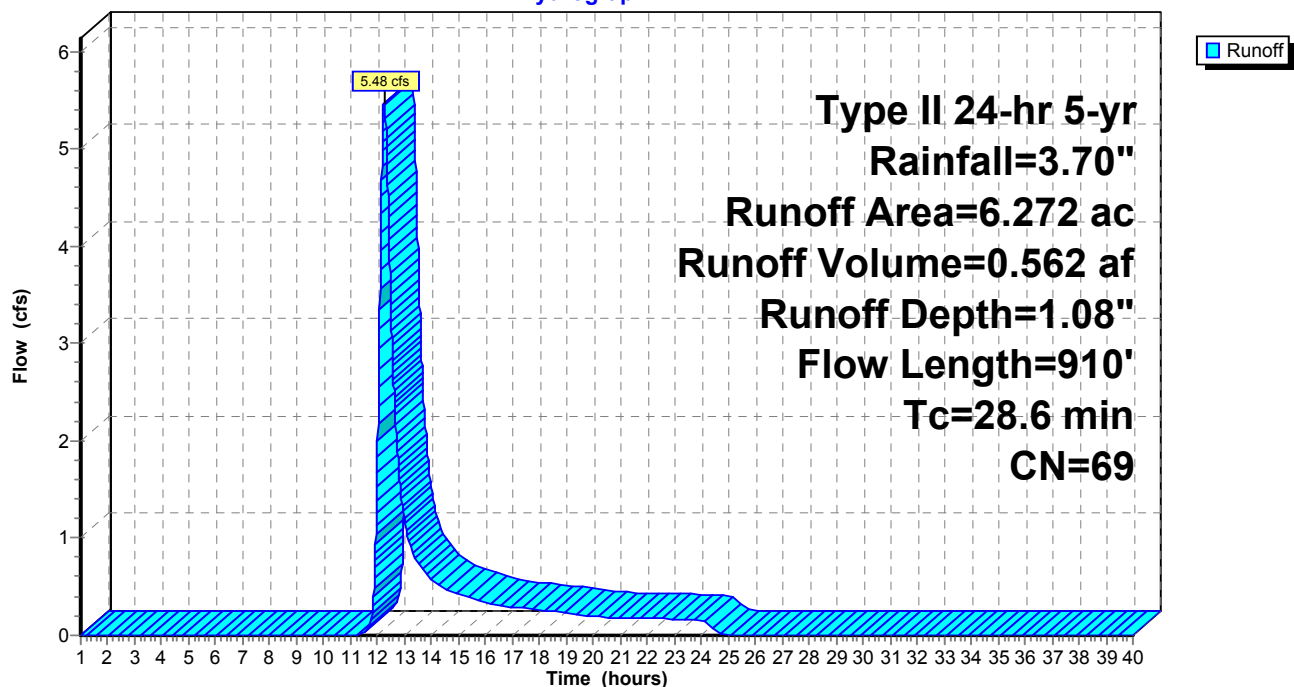
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
6.272	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	910	0.0200	0.5		Lag/CN Method,

Subcatchment W109: W109

Hydrograph



Subcatchment W110: W110

Runoff = 4.86 cfs @ 14.07 hrs, Volume= 1.971 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

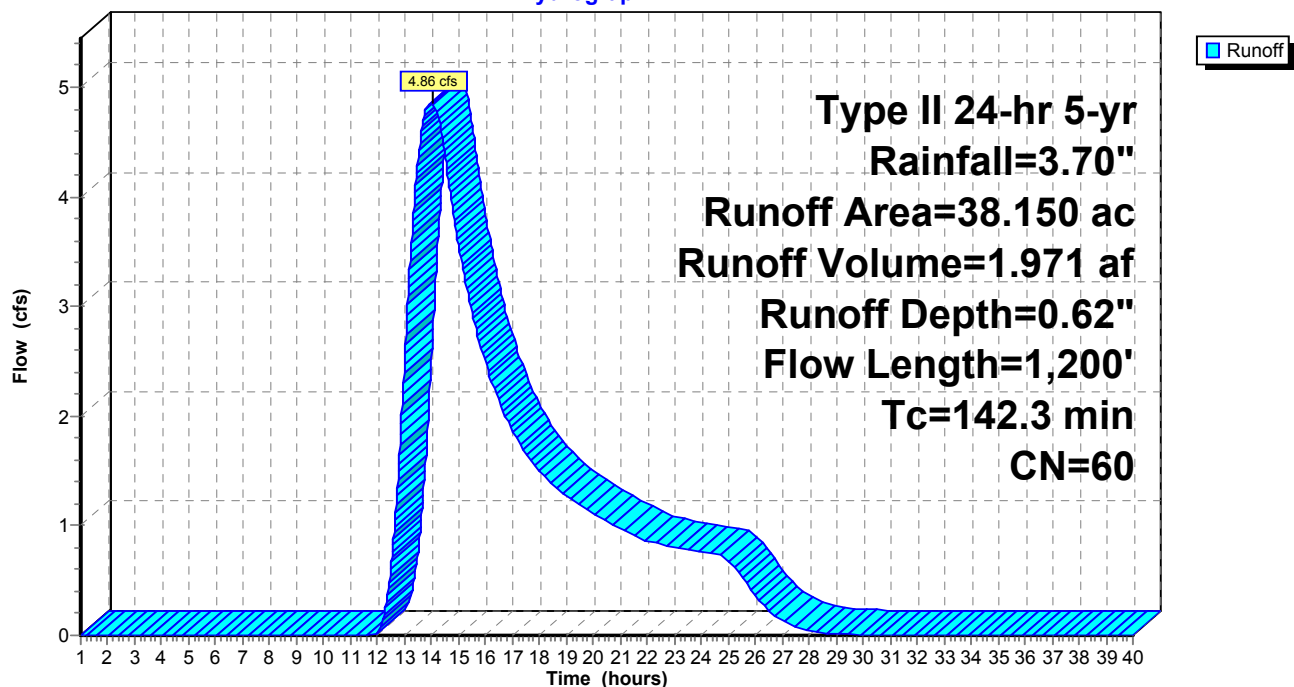
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
38.150	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
142.3	1,200	0.0020	0.1		Lag/CN Method,

Subcatchment W110: W110

Hydrograph



Subcatchment W111: W111

Runoff = 5.68 cfs @ 12.02 hrs, Volume= 0.315 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

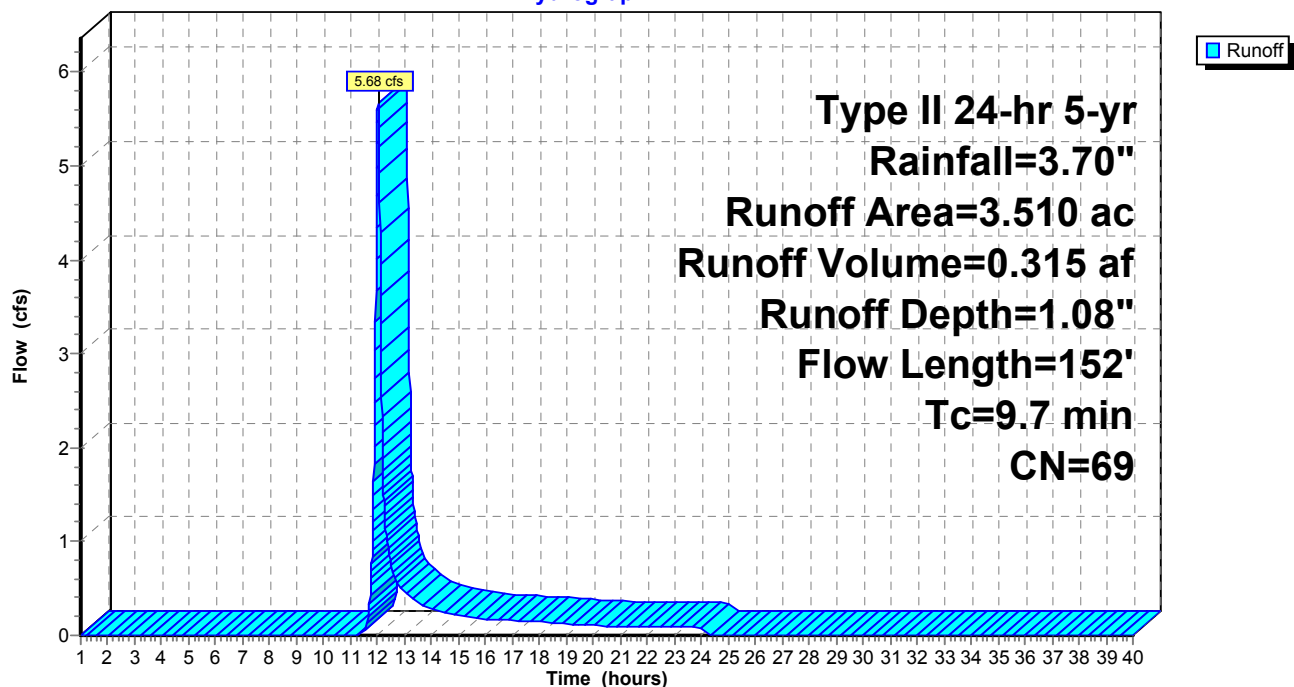
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
3.510	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	152	0.0100	0.3		Lag/CN Method,

Subcatchment W111: W111

Hydrograph



Subcatchment W112: W112

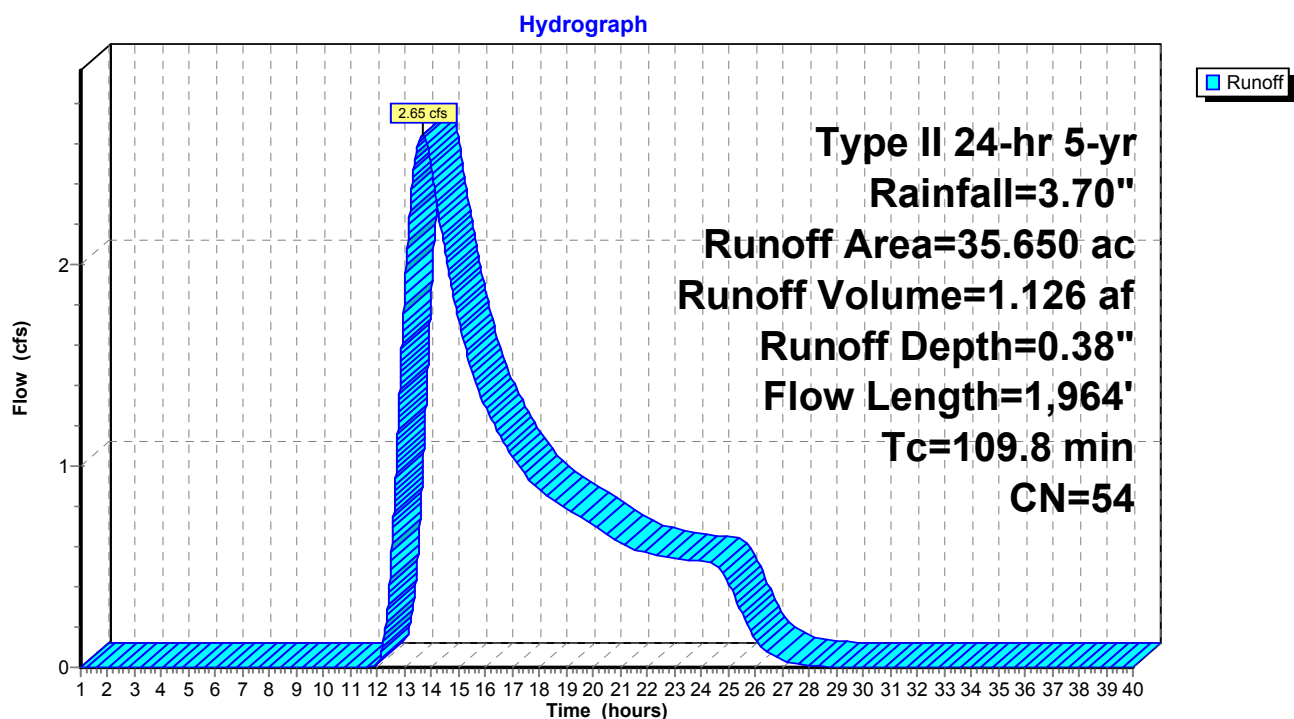
Runoff = 2.65 cfs @ 13.66 hrs, Volume= 1.126 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
35.650	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
109.8	1,964	0.0100	0.3		Lag/CN Method,

Subcatchment W112: W112

Subcatchment W113: W113

Runoff = 9.25 cfs @ 12.17 hrs, Volume= 0.802 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

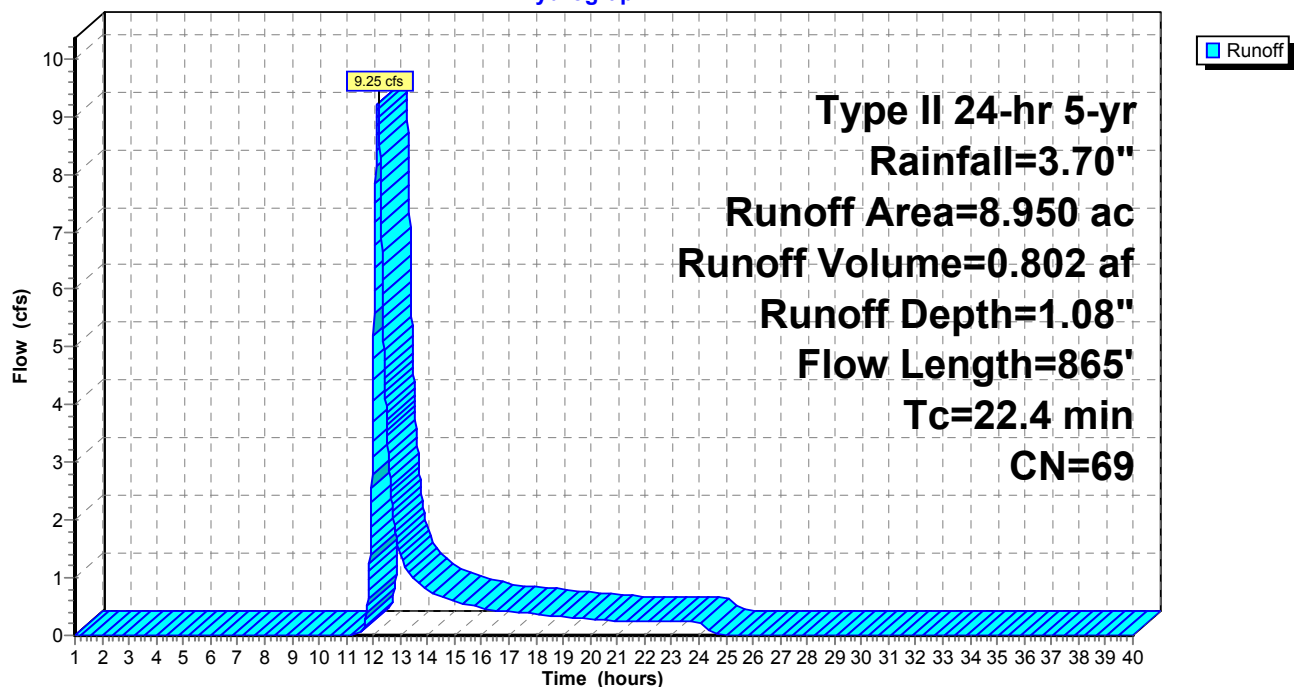
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.950	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	865	0.0300	0.6		Lag/CN Method,

Subcatchment W113: W113

Hydrograph



Subcatchment W114: W114

Runoff = 6.77 cfs @ 12.75 hrs, Volume= 1.674 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

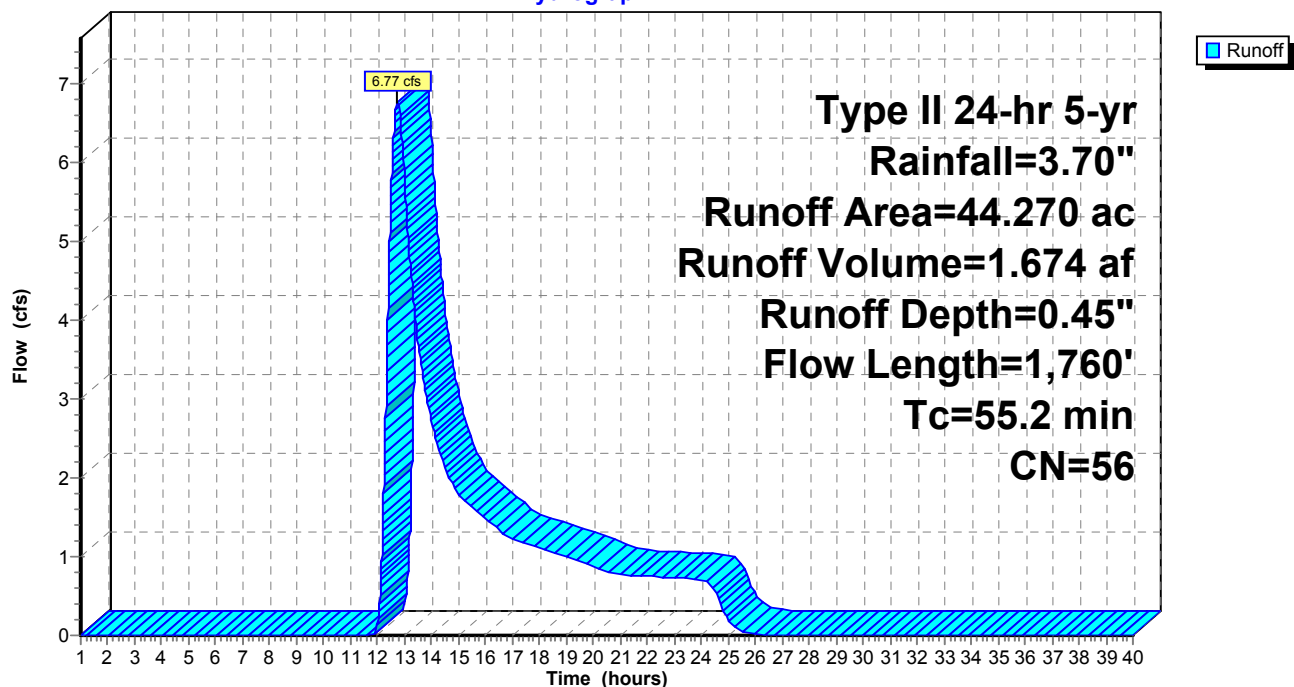
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
44.270	56	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.2	1,760	0.0300	0.5		Lag/CN Method,

Subcatchment W114: W114

Hydrograph



Subcatchment W115: W115

Runoff = 2.63 cfs @ 12.71 hrs, Volume= 0.608 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

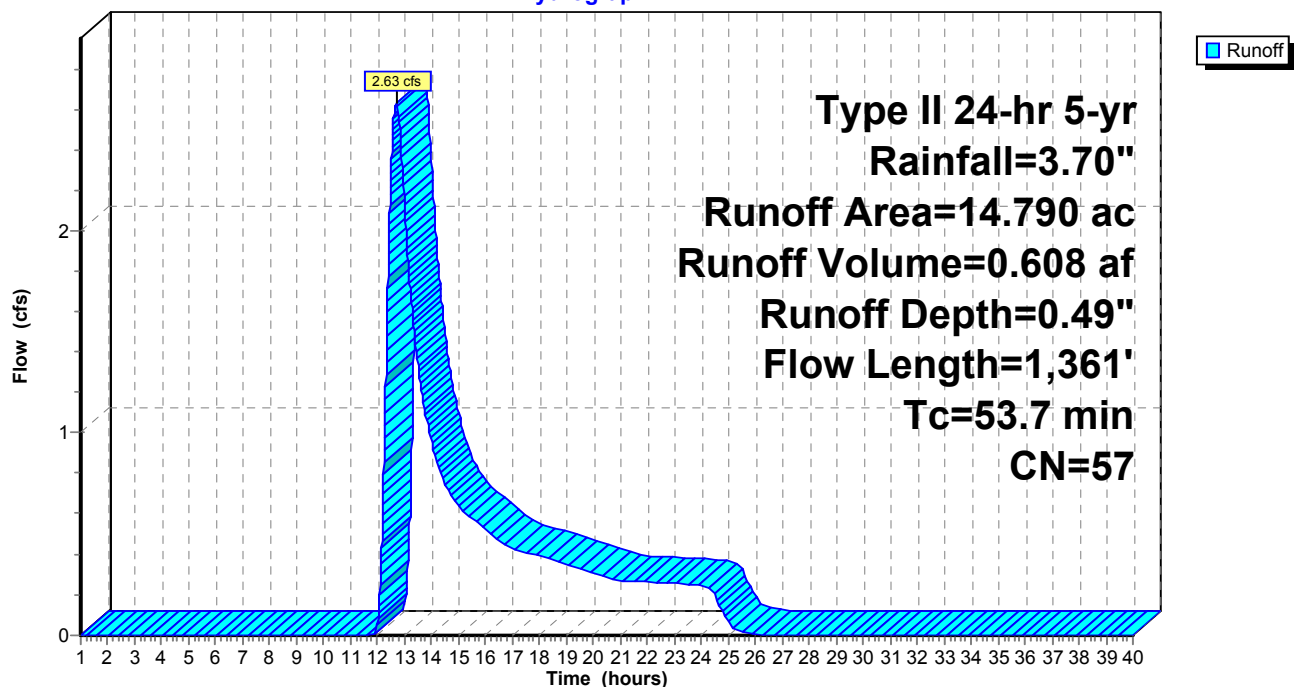
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
14.790	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	1,361	0.0200	0.4		Lag/CN Method,

Subcatchment W115: W115

Hydrograph



Subcatchment W116: W116

Runoff = 8.49 cfs @ 12.01 hrs, Volume= 0.458 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

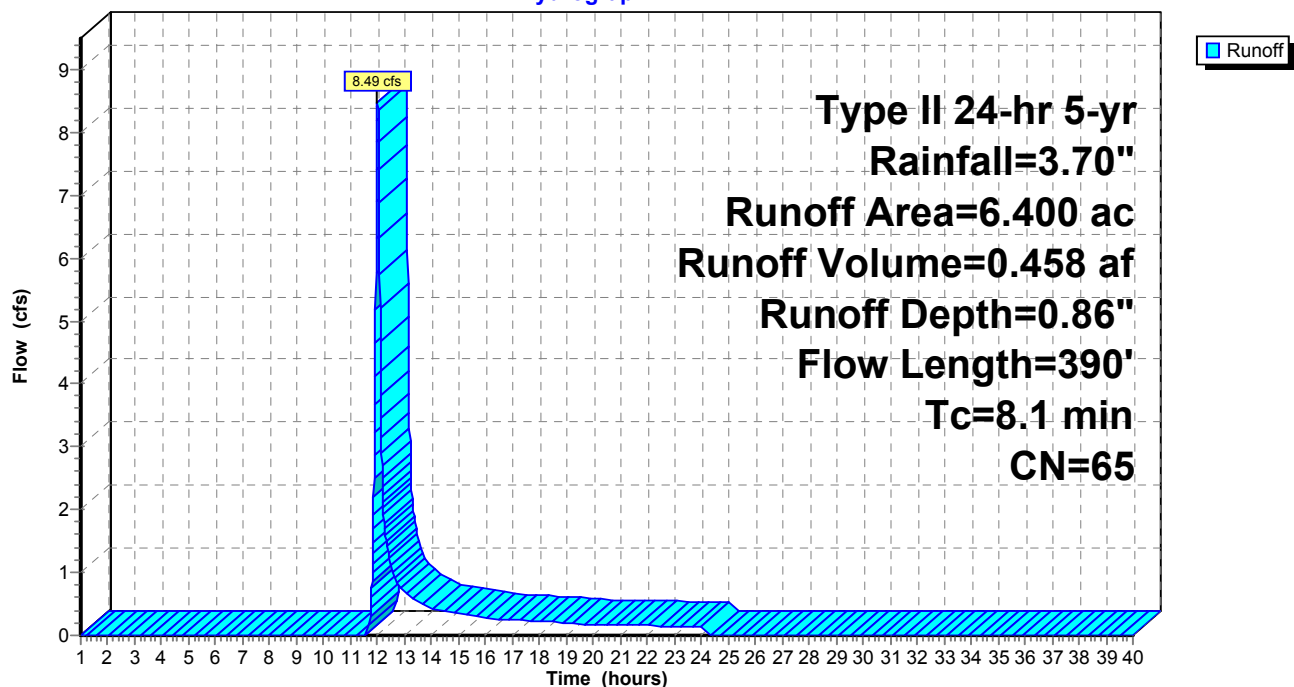
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
6.400	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	390	0.0800	0.8		Lag/CN Method,

Subcatchment W116: W116

Hydrograph



Subcatchment W117: W117

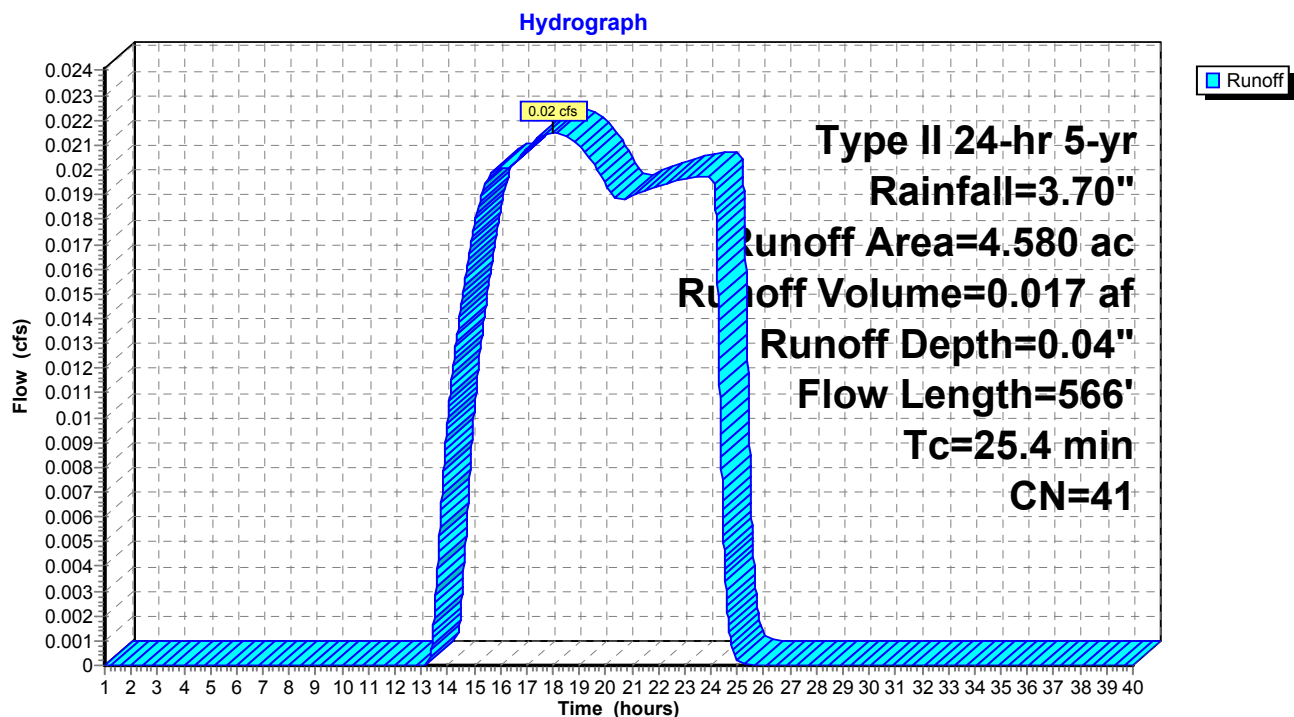
Runoff = 0.02 cfs @ 17.98 hrs, Volume= 0.017 af, Depth= 0.04"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.580	41	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	566	0.0500	0.4		Lag/CN Method,

Subcatchment W117: W117

Subcatchment W118: W118

Runoff = 1.59 cfs @ 12.79 hrs, Volume= 0.588 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

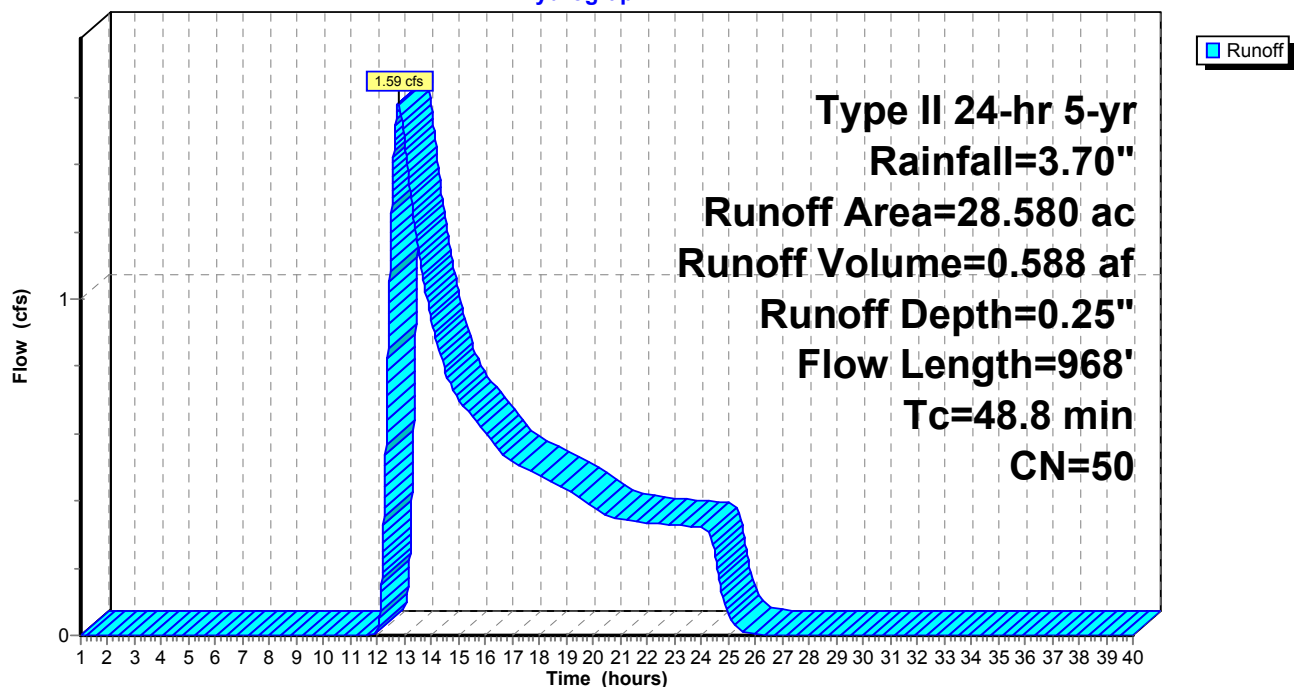
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
28.580	50	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.8	968	0.0200	0.3		Lag/CN Method,

Subcatchment W118: W118

Hydrograph



Subcatchment W119: W119

Runoff = 0.51 cfs @ 12.22 hrs, Volume= 0.147 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

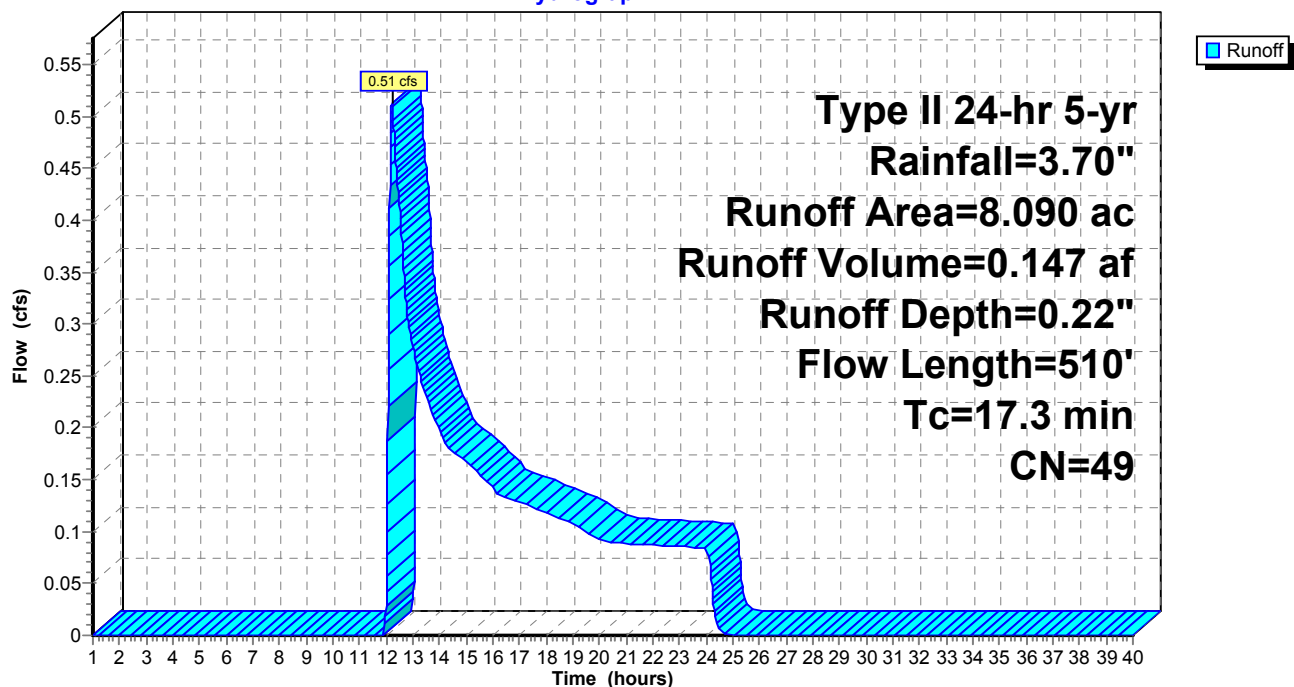
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.090	49	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	510	0.0600	0.5		Lag/CN Method,

Subcatchment W119: W119

Hydrograph



Subcatchment W12: W12

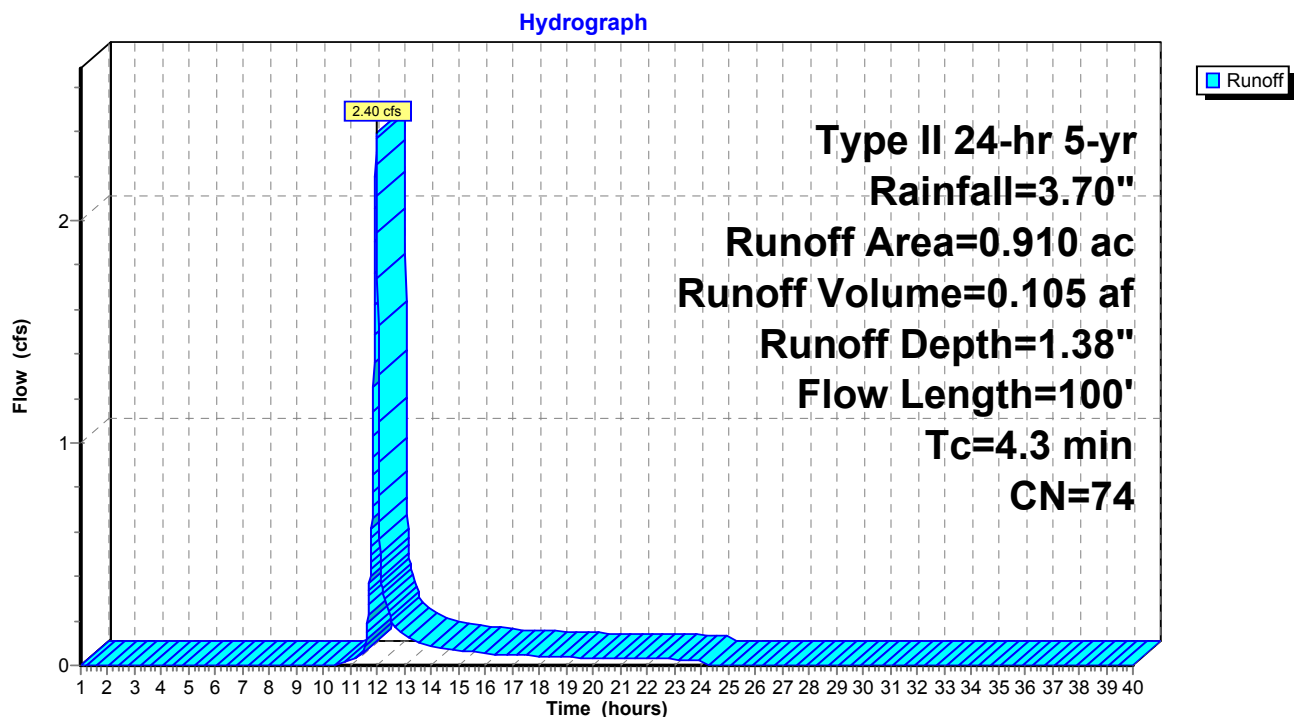
Runoff = 2.40 cfs @ 11.96 hrs, Volume= 0.105 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
0.910	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.0200	0.4		Lag/CN Method,

Subcatchment W12: W12

Subcatchment W120: W120

Runoff = 0.19 cfs @ 14.43 hrs, Volume= 0.150 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

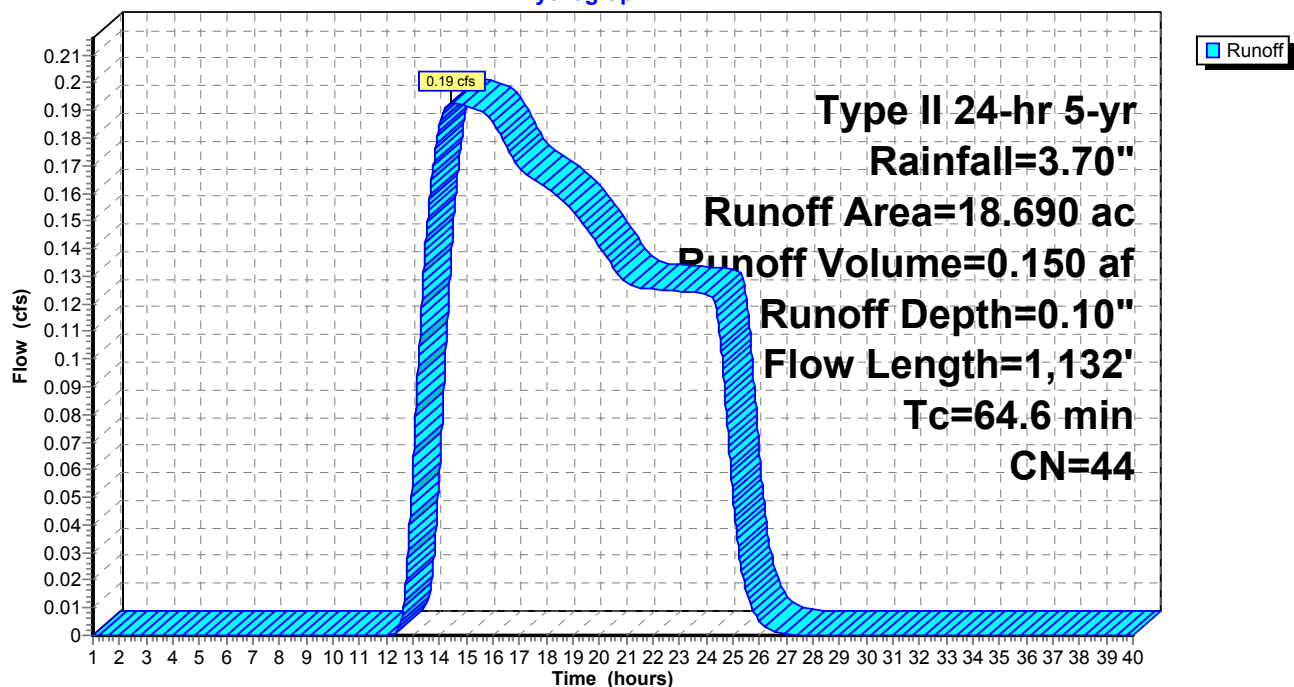
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.690	44	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.6	1,132	0.0200	0.3		Lag/CN Method,

Subcatchment W120: W120

Hydrograph



Subcatchment W121: W121

Runoff = 11.77 cfs @ 12.01 hrs, Volume= 0.629 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

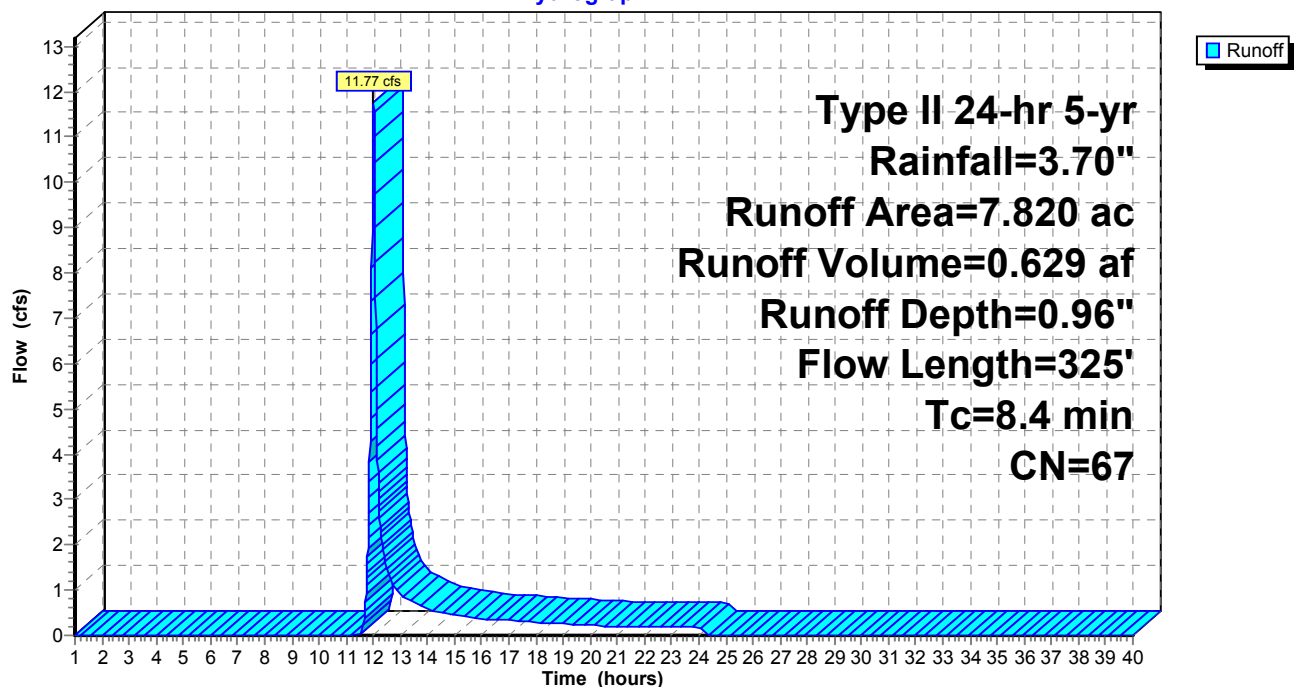
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.820	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	325	0.0500	0.6		Lag/CN Method,

Subcatchment W121: W121

Hydrograph



Subcatchment W122: W122

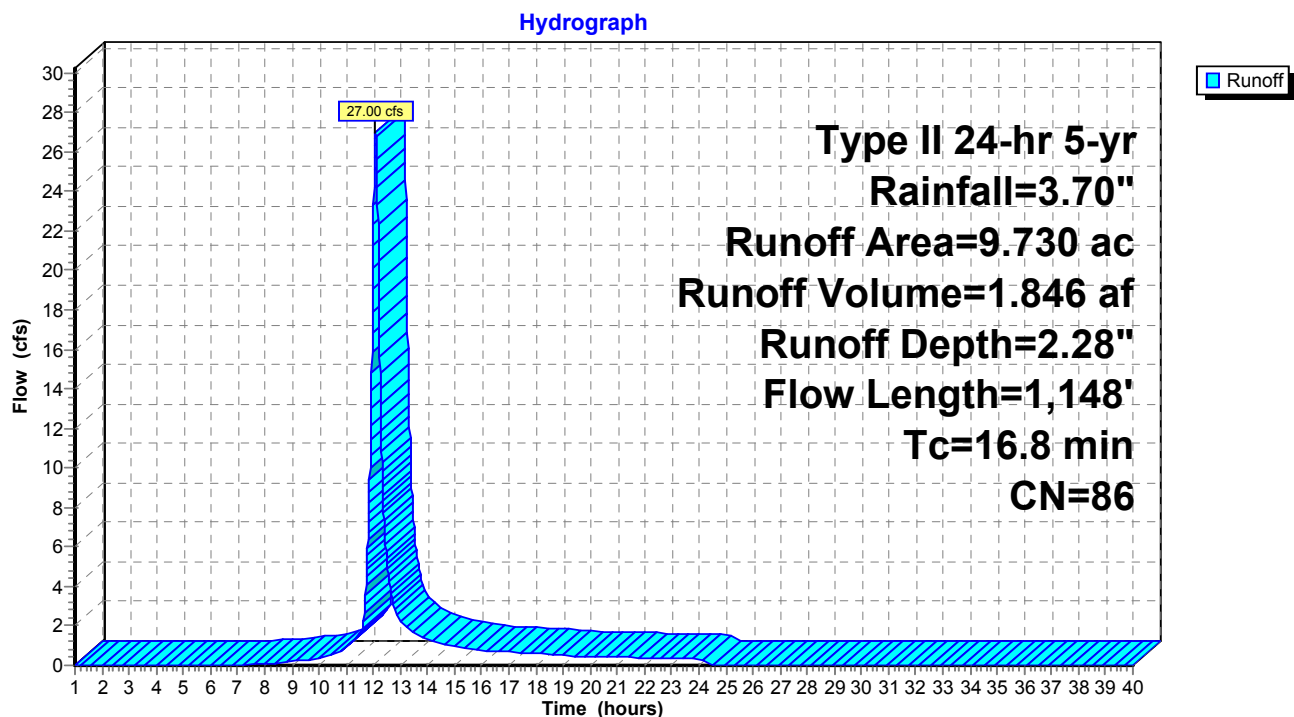
Runoff = 27.00 cfs @ 12.09 hrs, Volume= 1.846 af, Depth= 2.28"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.730	86	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,148	0.0300	1.1		Lag/CN Method,

Subcatchment W122: W122

Subcatchment W123: W123

Runoff = 4.08 cfs @ 12.09 hrs, Volume= 0.277 af, Depth= 1.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

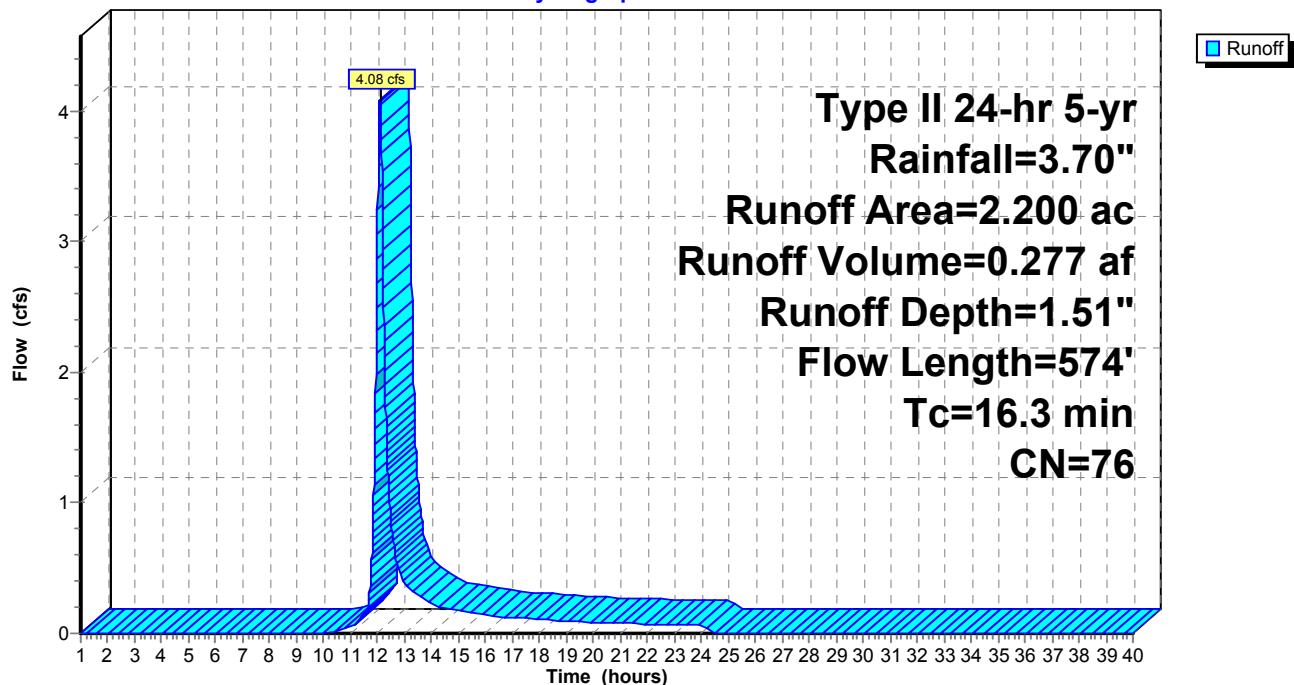
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
2.200	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	574	0.0200	0.6		Lag/CN Method,

Subcatchment W123: W123

Hydrograph



Subcatchment W124: W124

Runoff = 1.06 cfs @ 12.07 hrs, Volume= 0.069 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

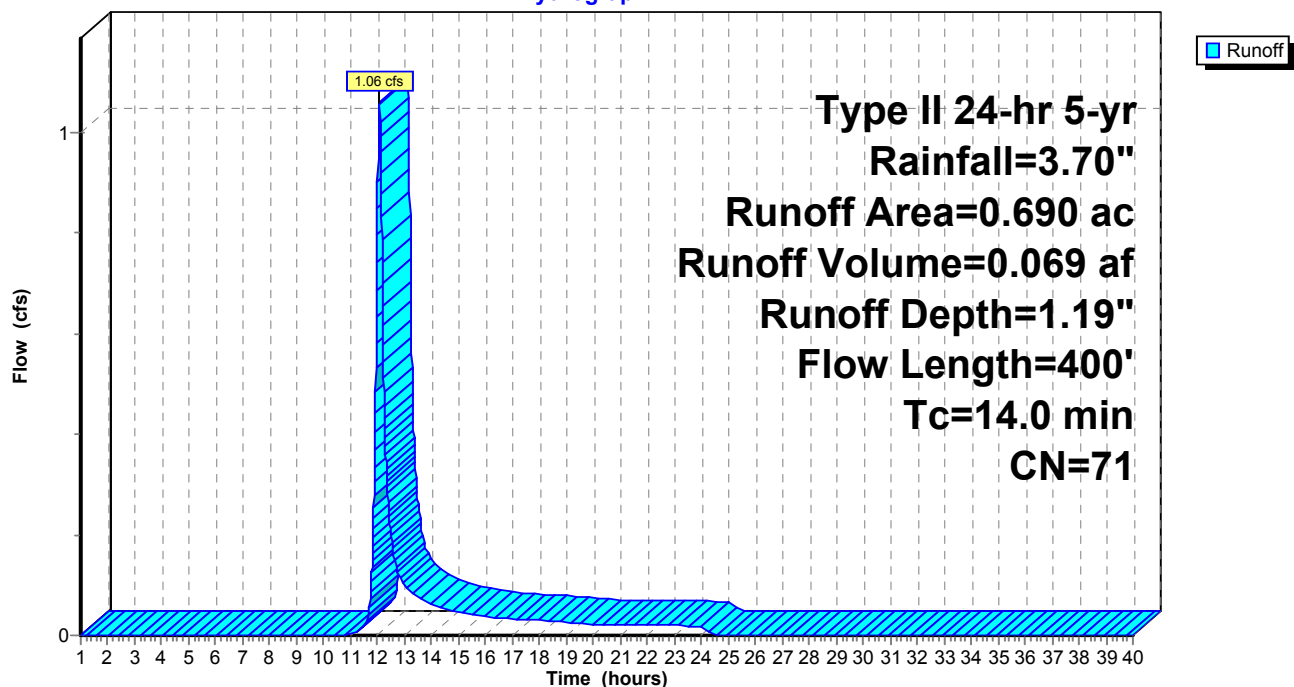
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
0.690	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	400	0.0200	0.5		Lag/CN Method,

Subcatchment W124: W124

Hydrograph



Subcatchment W125: W125

Runoff = 8.30 cfs @ 12.52 hrs, Volume= 1.198 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

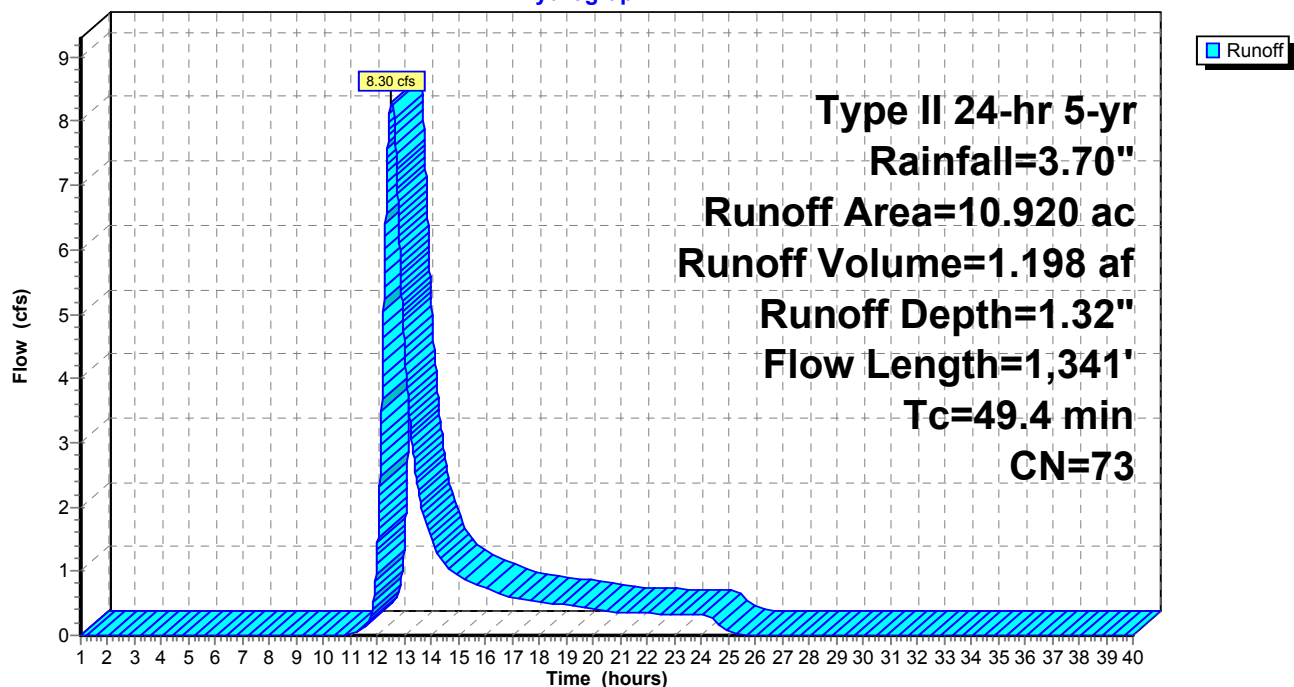
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
10.920	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.4	1,341	0.0100	0.5		Lag/CN Method,

Subcatchment W125: W125

Hydrograph



Subcatchment W126: W126

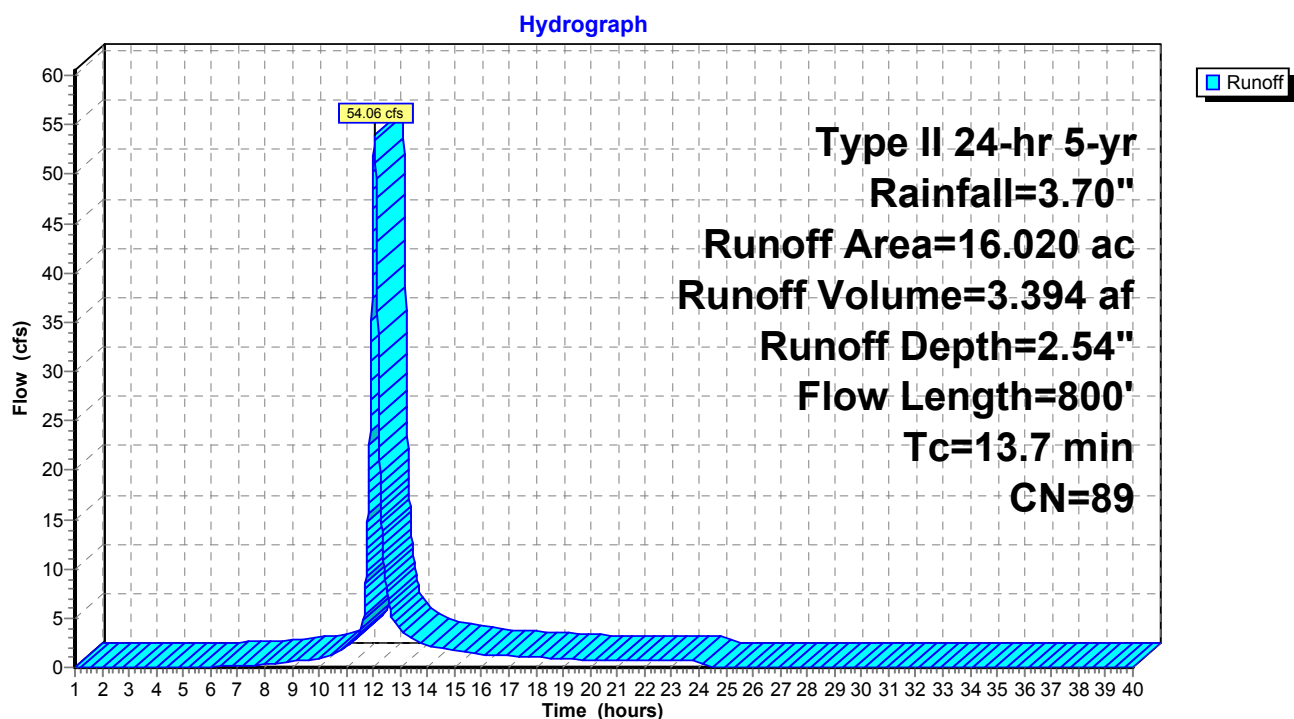
Runoff = 54.06 cfs @ 12.05 hrs, Volume= 3.394 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
16.020	89	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	800	0.0200	1.0		Lag/CN Method,

Subcatchment W126: W126

Subcatchment W128: W128

Runoff = 10.03 cfs @ 12.07 hrs, Volume= 0.644 af, Depth= 1.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

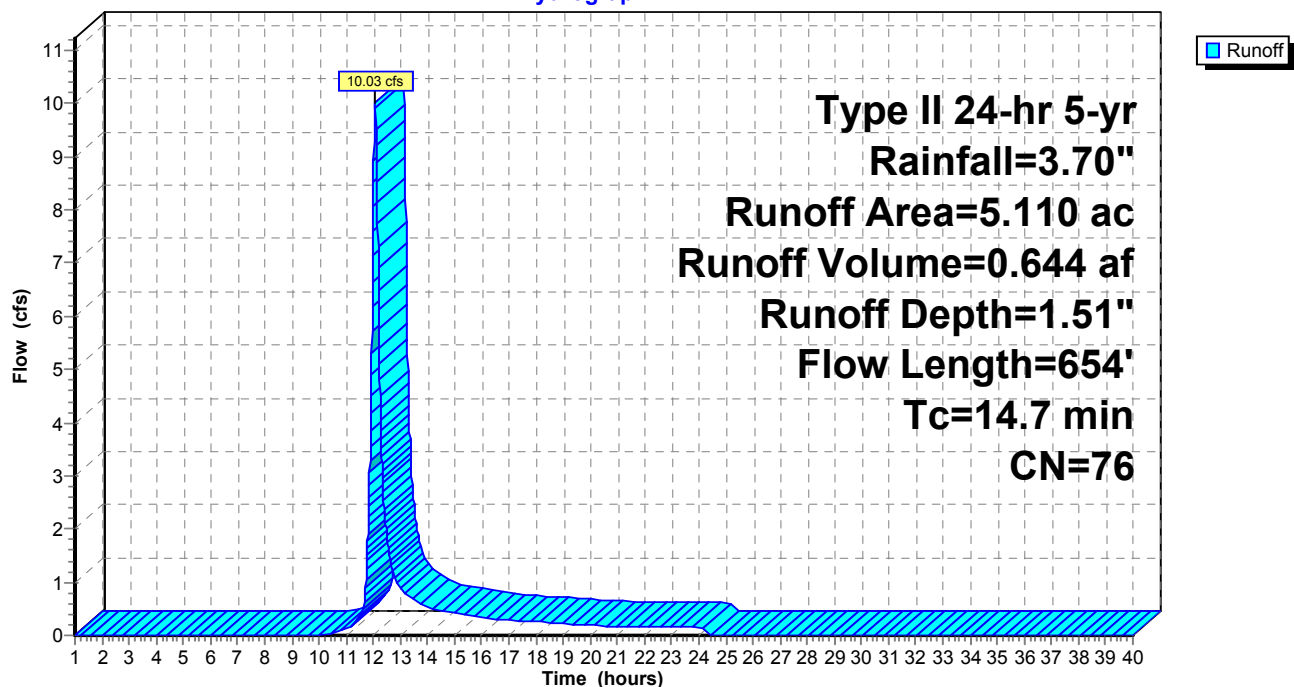
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.110	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	654	0.0300	0.7		Lag/CN Method,

Subcatchment W128: W128

Hydrograph



Subcatchment W129: W129

Runoff = 40.54 cfs @ 12.12 hrs, Volume= 2.985 af, Depth= 2.03"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

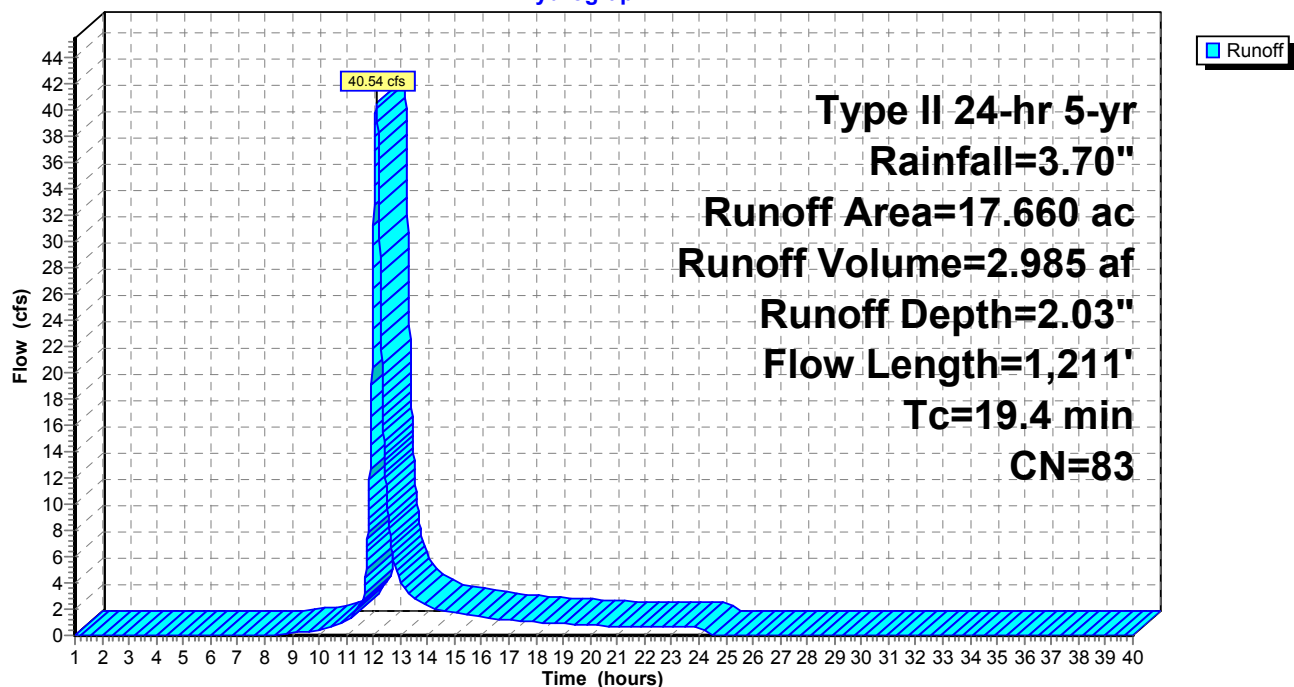
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
17.660	83	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.4	1,211	0.0300	1.0		Lag/CN Method,

Subcatchment W129: W129

Hydrograph



Subcatchment W13: W13

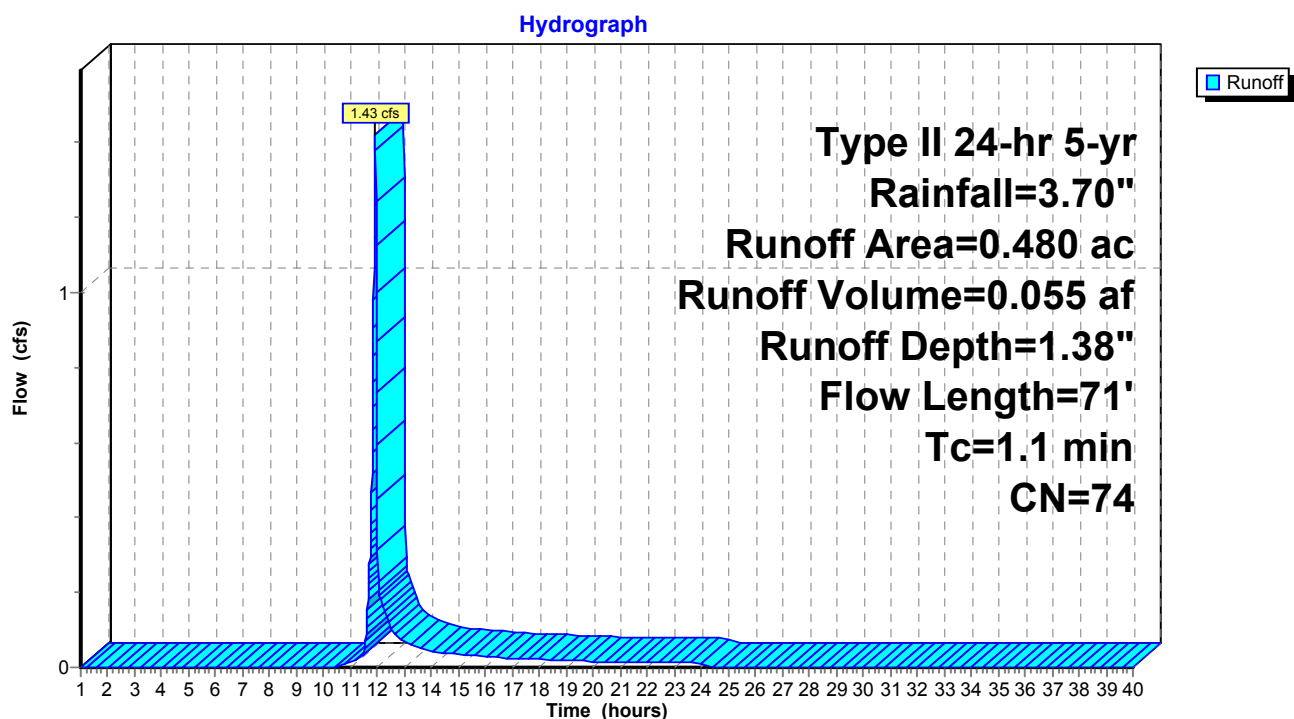
Runoff = 1.43 cfs @ 11.92 hrs, Volume= 0.055 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
0.480	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	71	0.1700	1.1		Lag/CN Method,

Subcatchment W13: W13

Subcatchment W134: W134

Runoff = 24.52 cfs @ 12.02 hrs, Volume= 1.371 af, Depth= 2.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

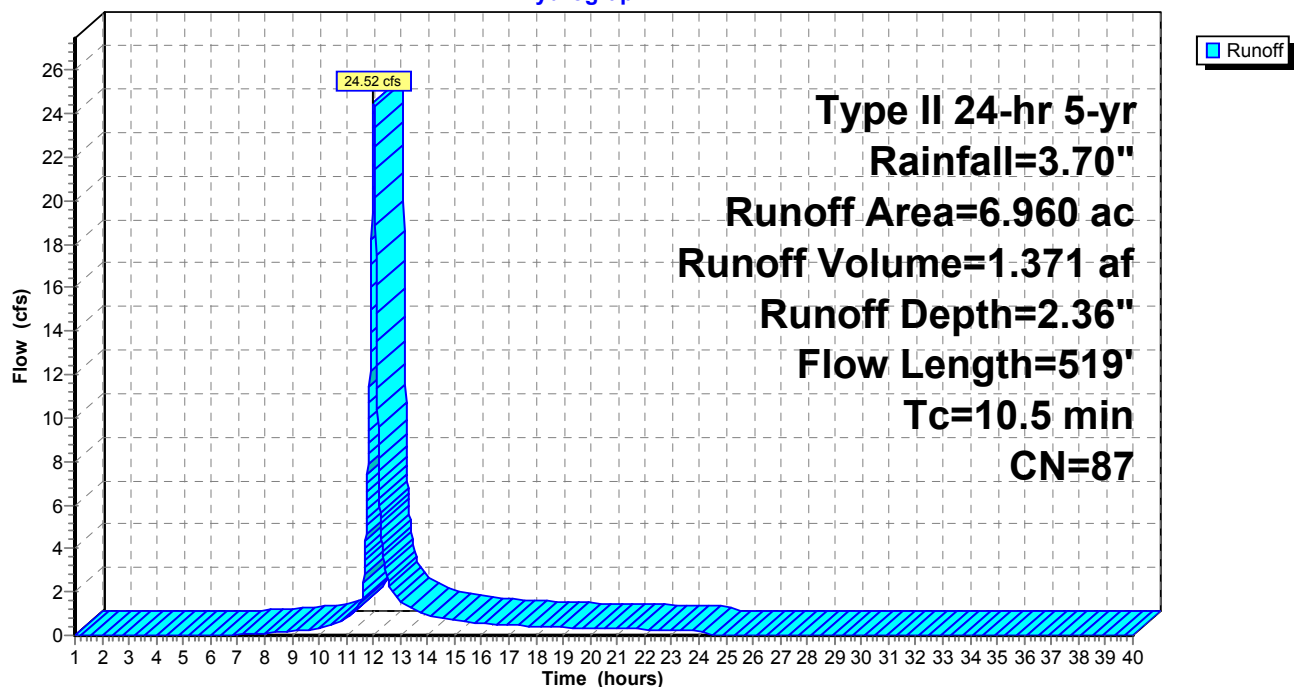
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
6.960	87	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	519	0.0200	0.8		Lag/CN Method,

Subcatchment W134: W134

Hydrograph



Subcatchment W135: W135

Runoff = 22.36 cfs @ 12.44 hrs, Volume= 2.867 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

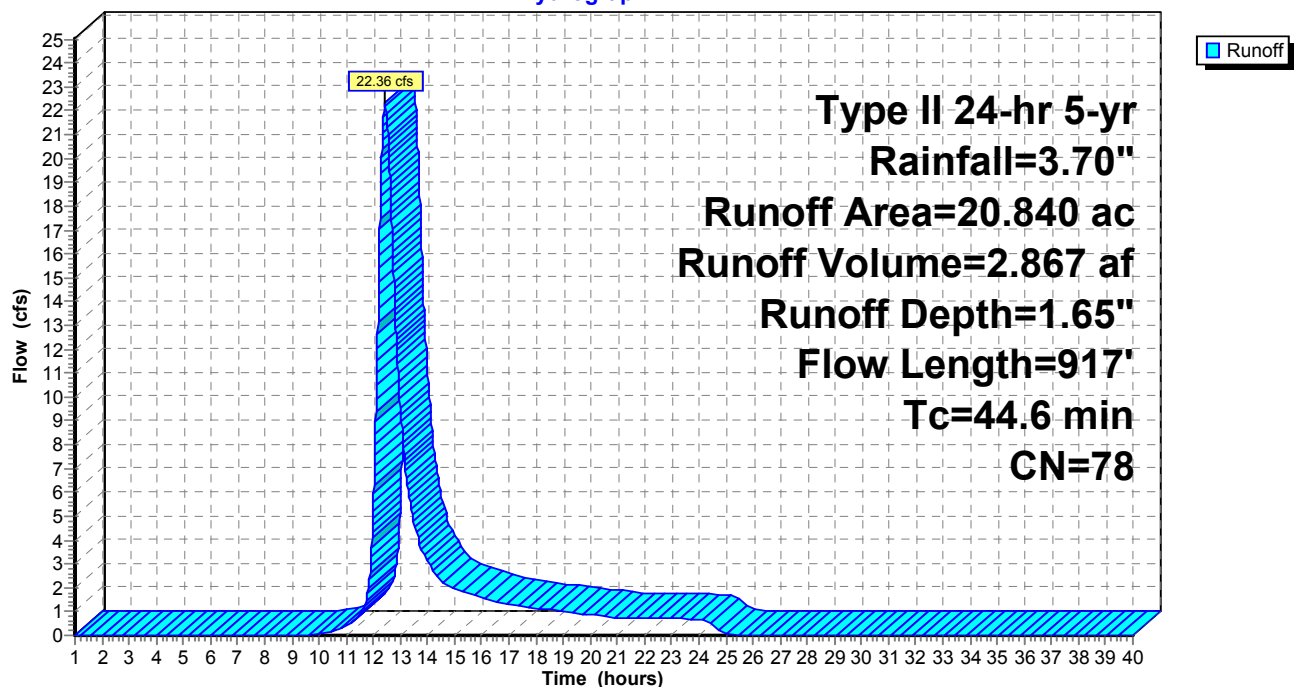
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
20.840	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.6	917	0.0050	0.3		Lag/CN Method,

Subcatchment W135: W135

Hydrograph



Subcatchment w136: w136

Runoff = 5.91 cfs @ 12.01 hrs, Volume= 0.304 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

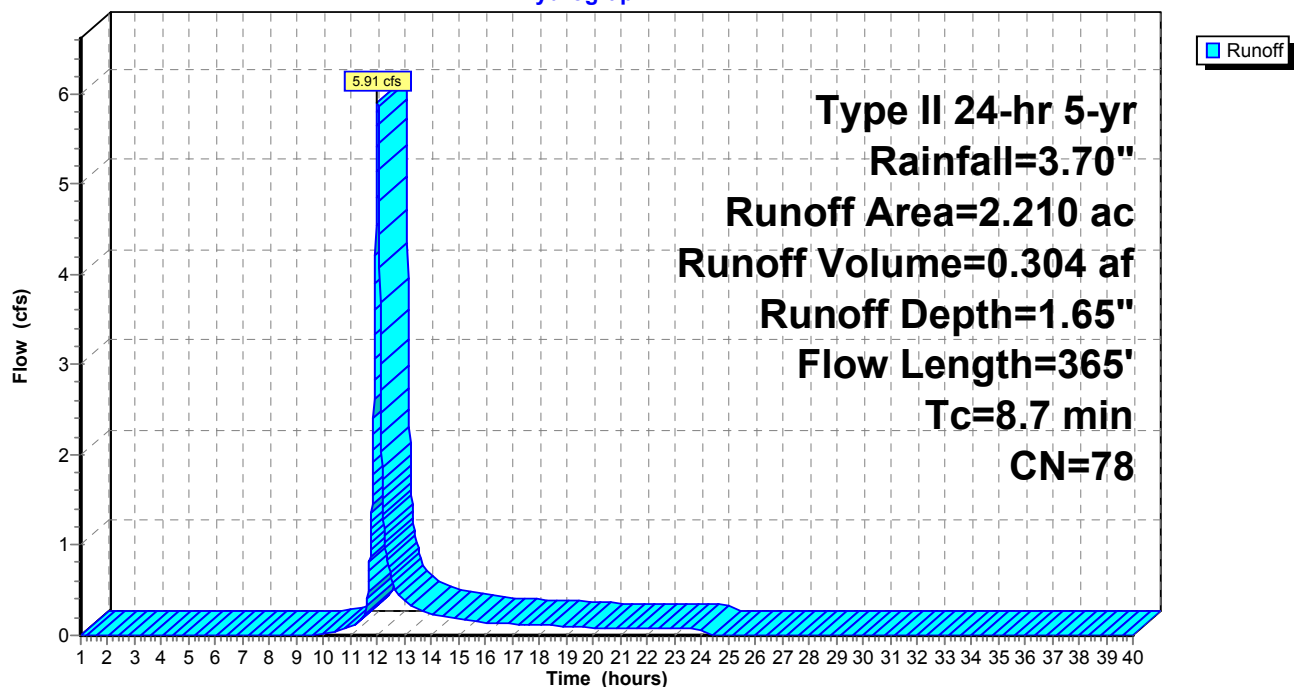
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
2.210	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	365	0.0300	0.7		Lag/CN Method,

Subcatchment w136: w136

Hydrograph



Subcatchment W137: W137

Runoff = 15.06 cfs @ 12.17 hrs, Volume= 1.275 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

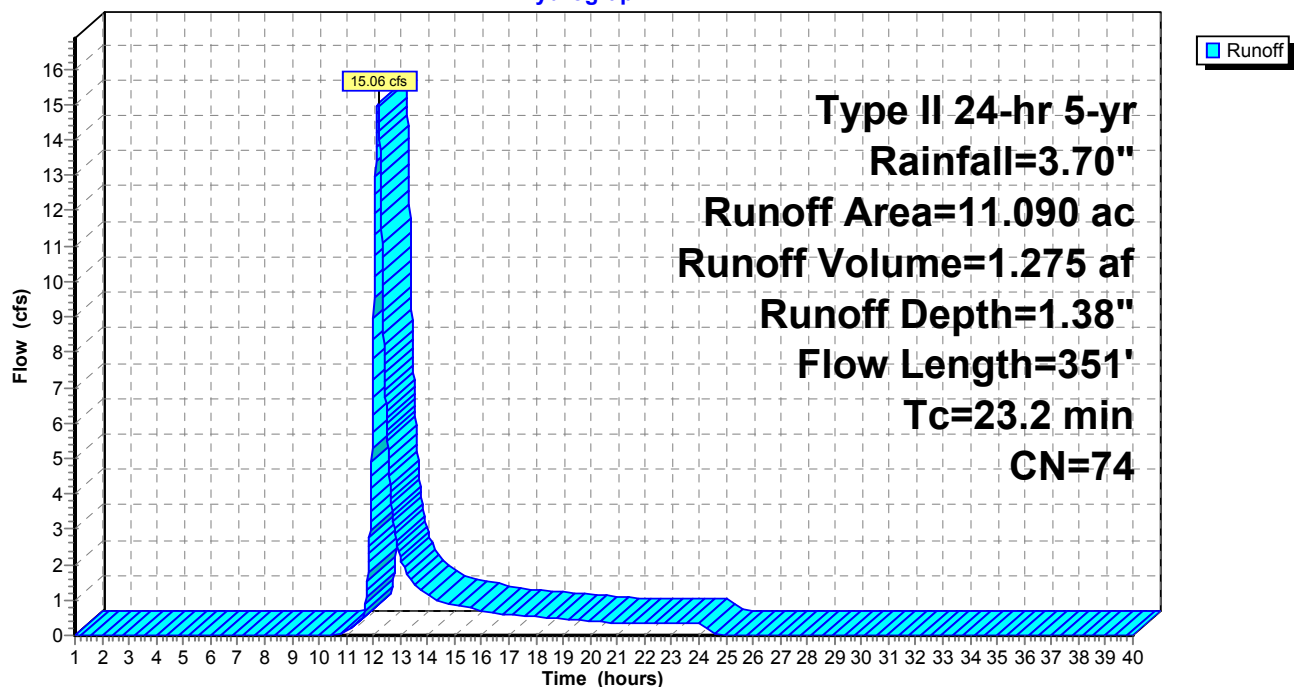
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
11.090	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	351	0.0050	0.3		Lag/CN Method,

Subcatchment W137: W137

Hydrograph



Subcatchment W138: W138

Runoff = 8.36 cfs @ 12.83 hrs, Volume= 1.606 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

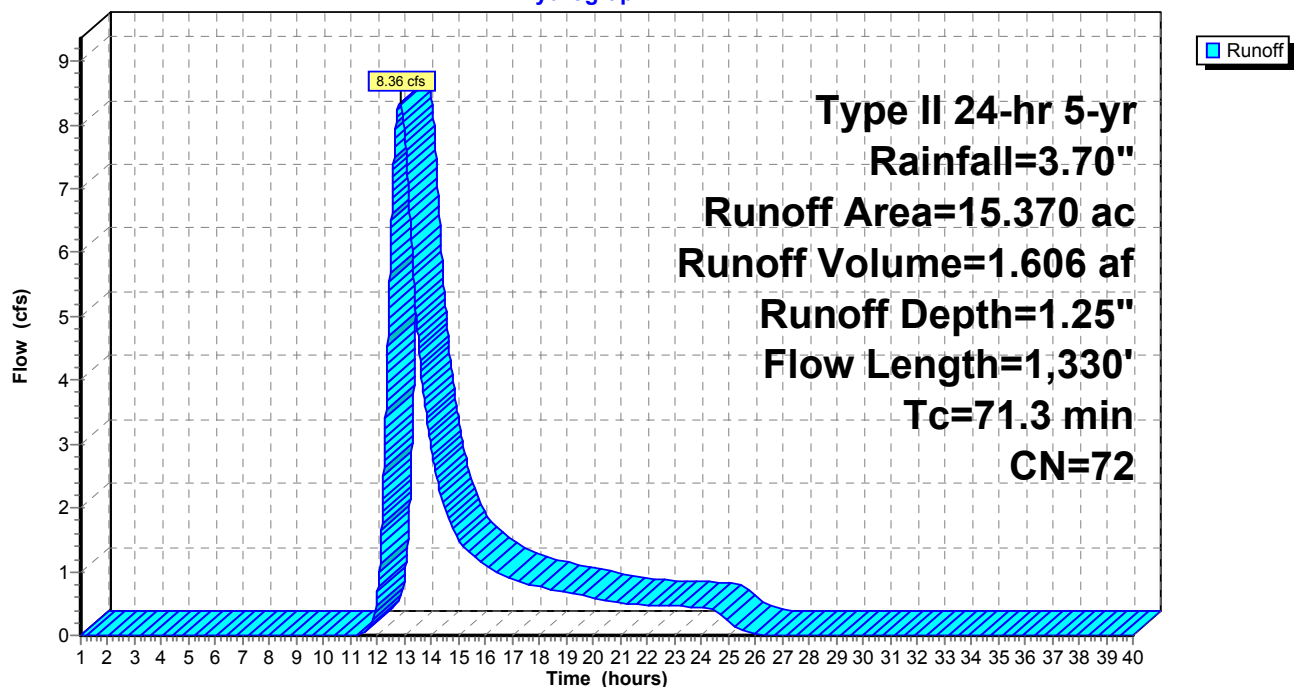
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
15.370	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.3	1,330	0.0050	0.3		Lag/CN Method,

Subcatchment W138: W138

Hydrograph



Subcatchment W139: W139

Runoff = 24.51 cfs @ 12.31 hrs, Volume= 2.732 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

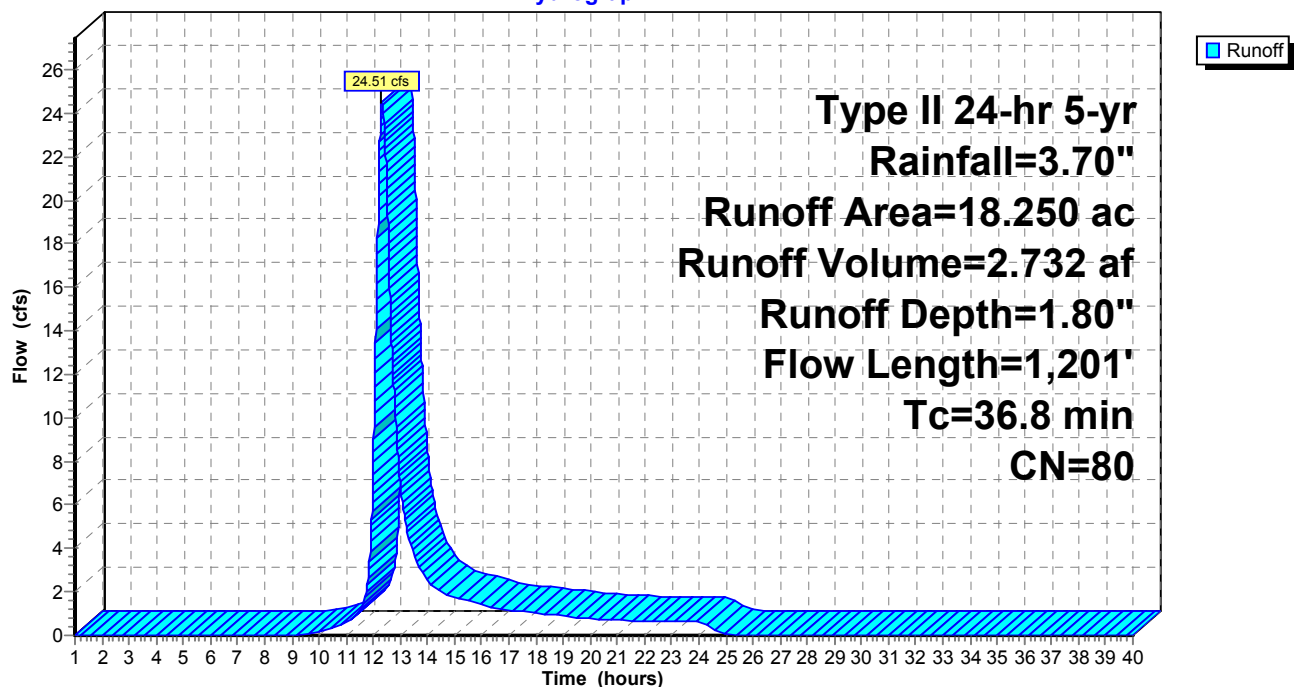
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.250	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	1,201	0.0100	0.5		Lag/CN Method,

Subcatchment W139: W139

Hydrograph



Subcatchment W14: W14

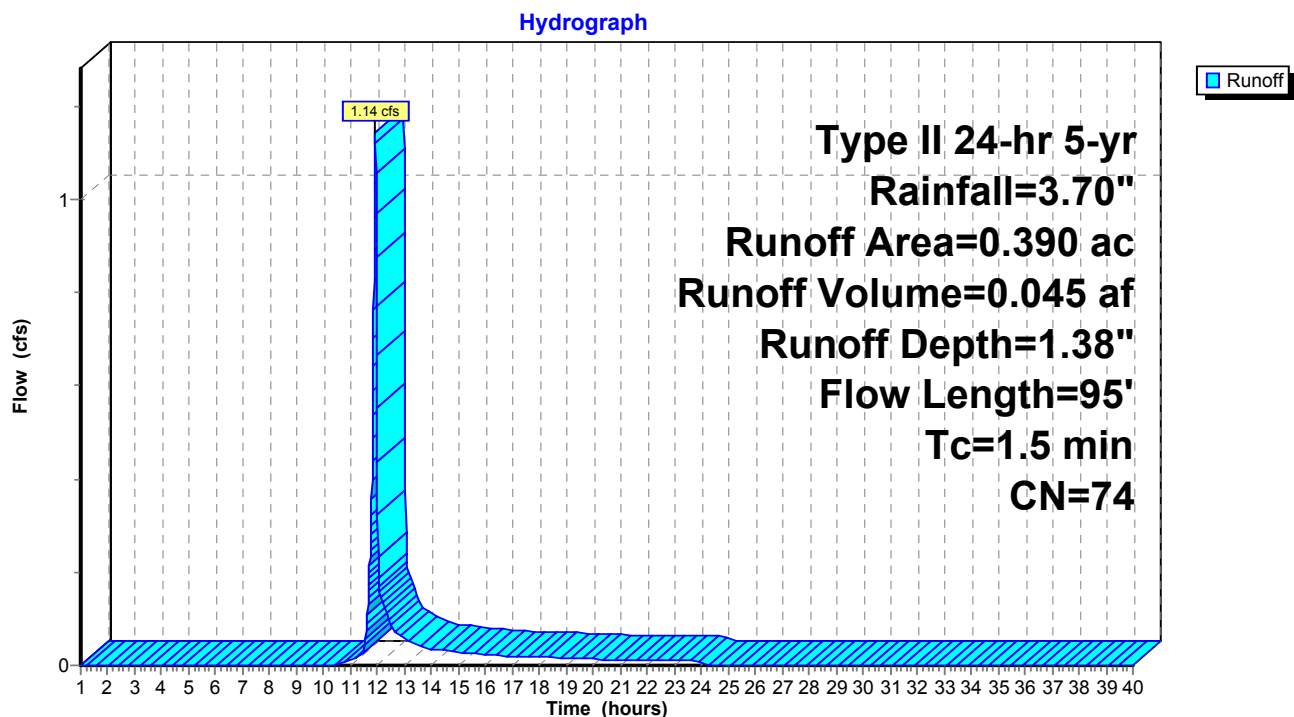
Runoff = 1.14 cfs @ 11.92 hrs, Volume= 0.045 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
0.390	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	95	0.1500	1.1		Lag/CN Method,

Subcatchment W14: W14

Subcatchment W140: W140

Runoff = 0.70 cfs @ 12.07 hrs, Volume= 0.072 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

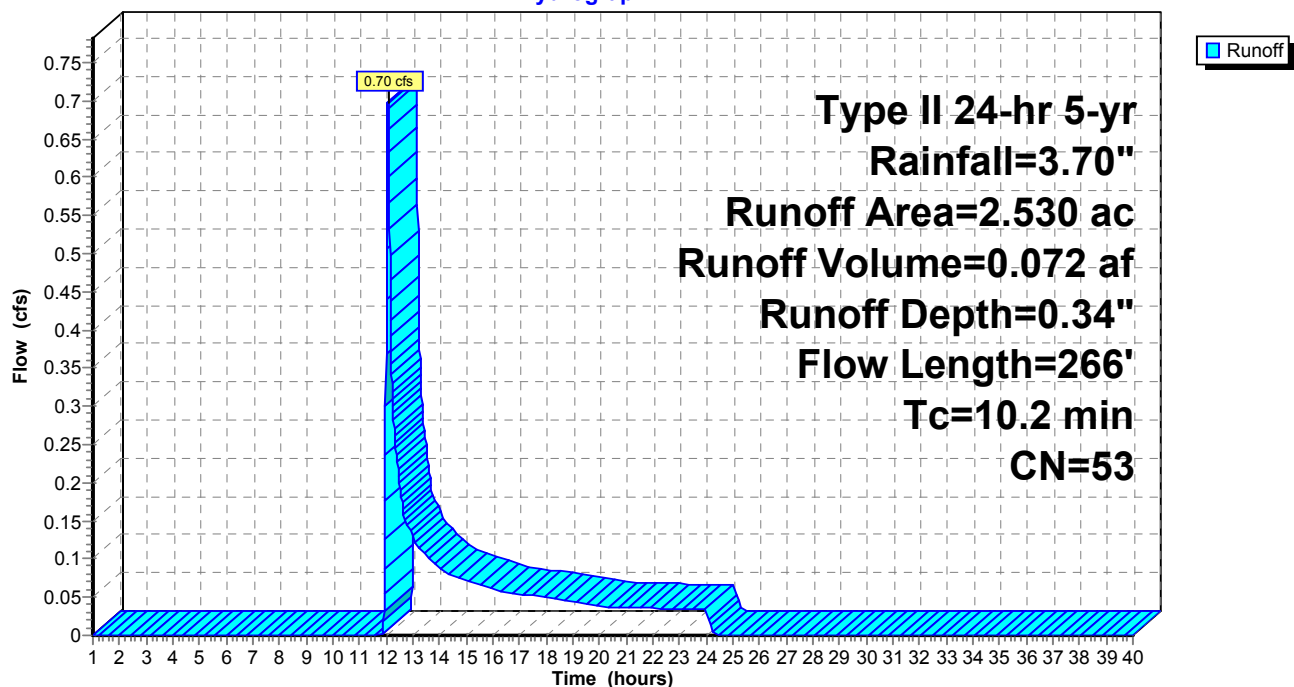
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
2.530	53	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	266	0.0500	0.4		Lag/CN Method,

Subcatchment W140: W140

Hydrograph



Subcatchment W141: W141

Runoff = 34.03 cfs @ 12.10 hrs, Volume= 2.392 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

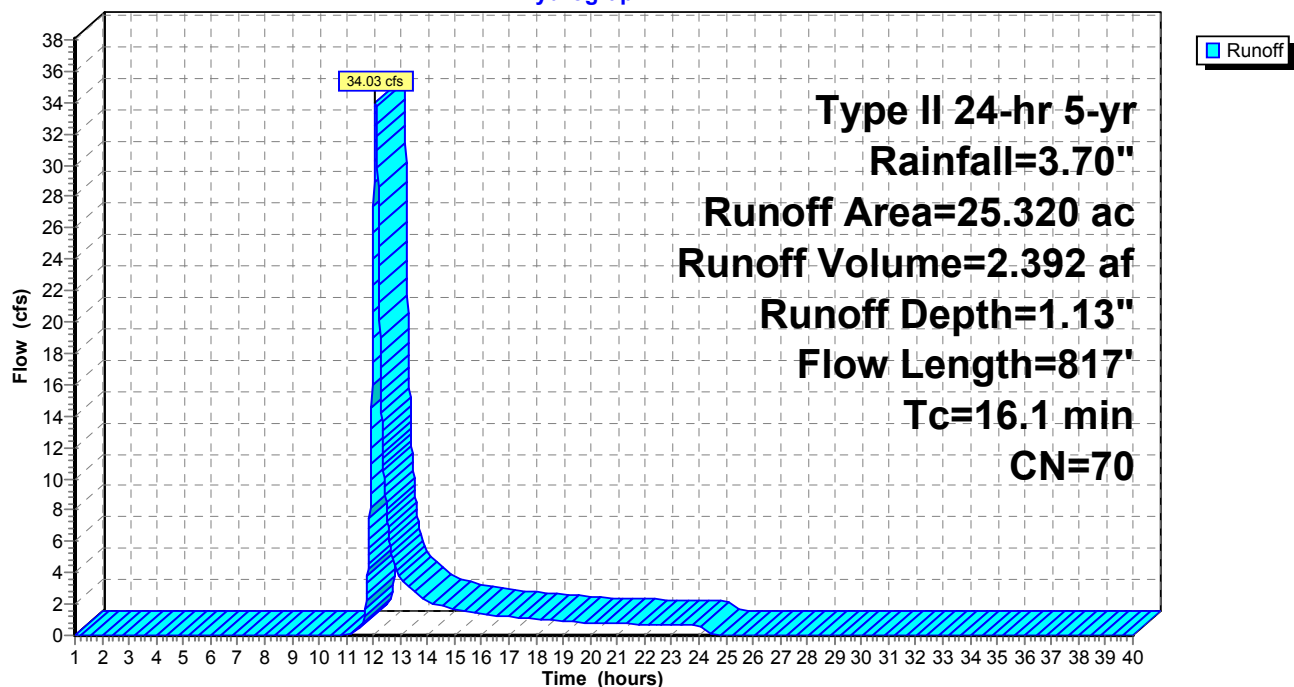
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
25.320	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	817	0.0500	0.8		Lag/CN Method,

Subcatchment W141: W141

Hydrograph



Subcatchment W142: W142

Runoff = 18.04 cfs @ 12.10 hrs, Volume= 1.246 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

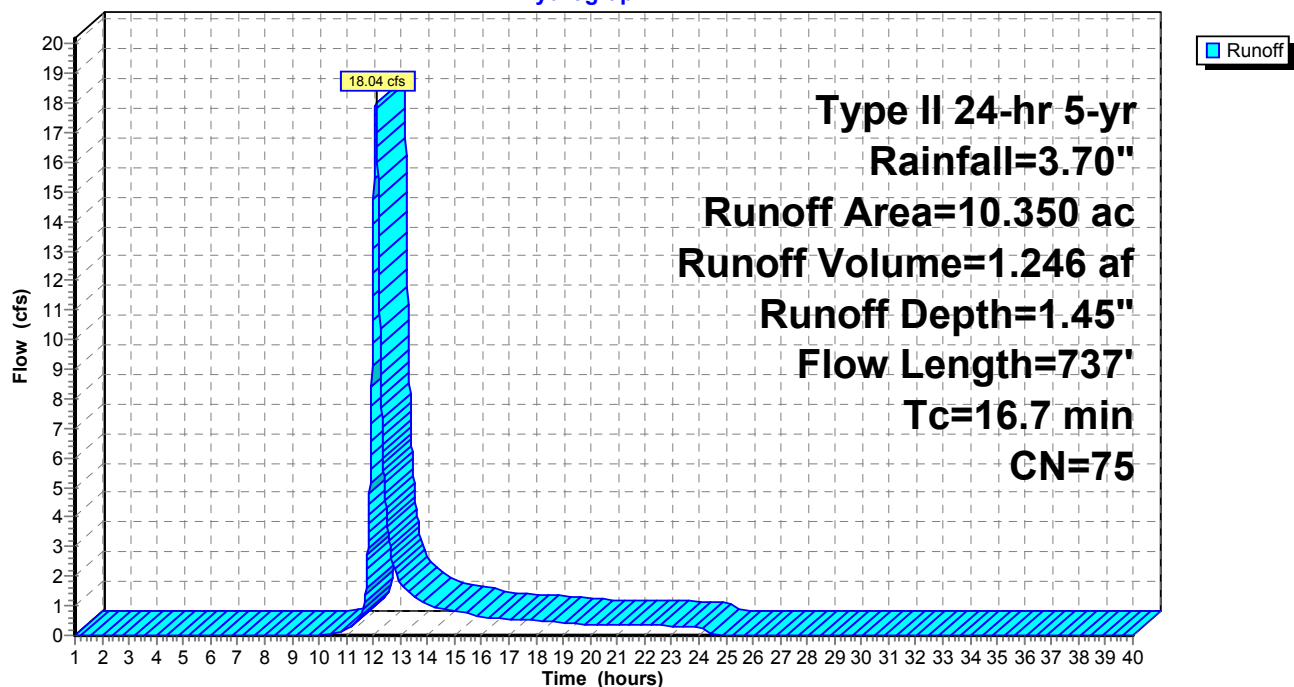
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
10.350	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	737	0.0300	0.7		Lag/CN Method,

Subcatchment W142: W142

Hydrograph



Subcatchment W143: W143

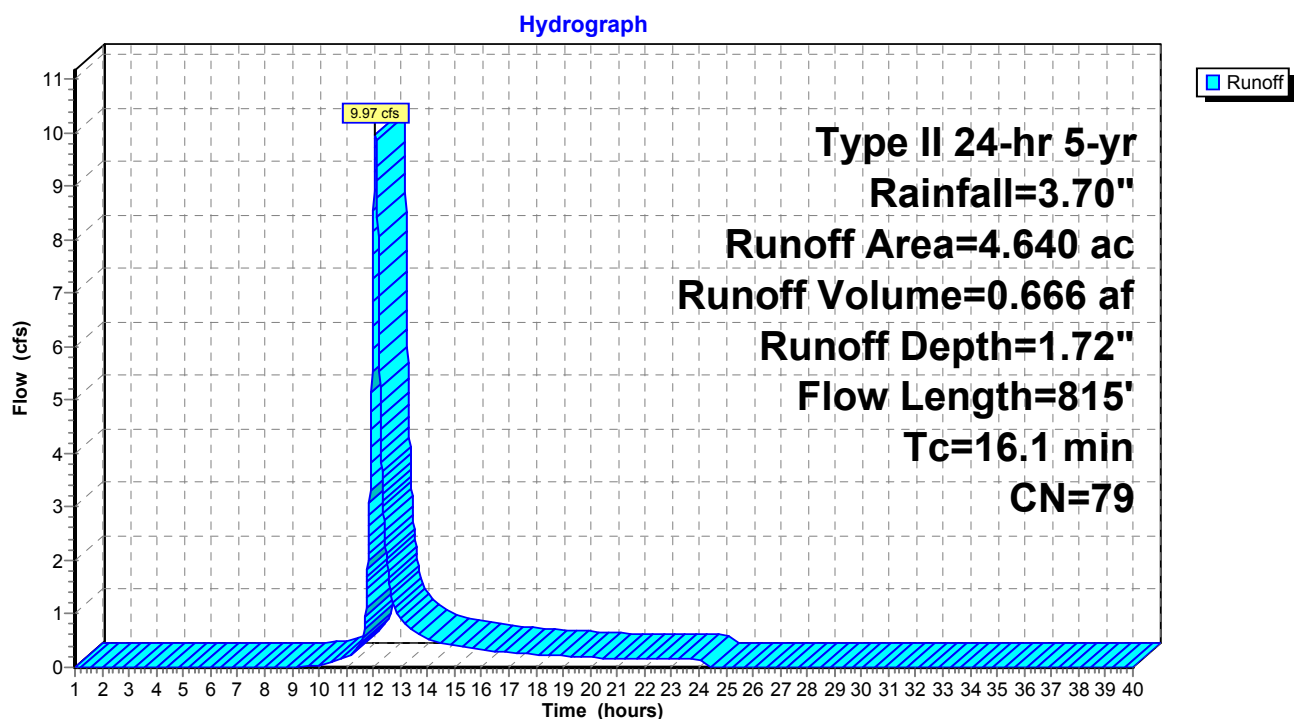
Runoff = 9.97 cfs @ 12.08 hrs, Volume= 0.666 af, Depth= 1.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.640	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	815	0.0300	0.8		Lag/CN Method,

Subcatchment W143: W143

Subcatchment W144: W144

Runoff = 7.43 cfs @ 12.08 hrs, Volume= 0.496 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

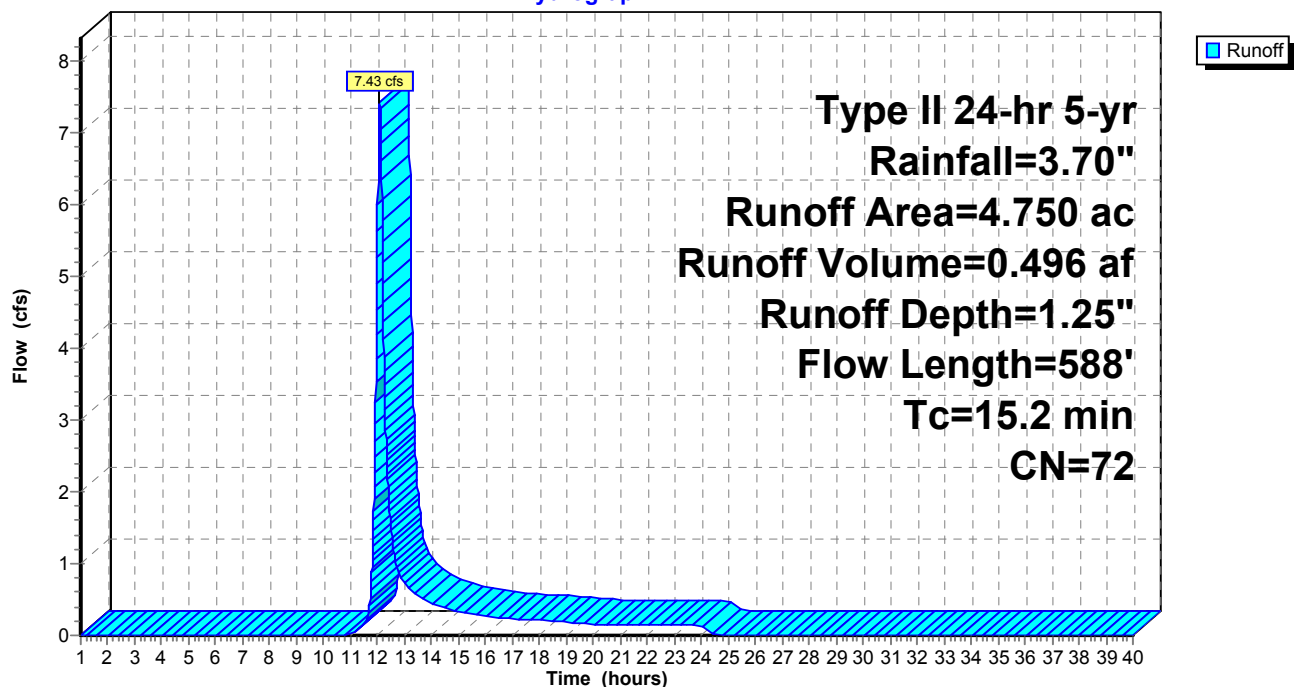
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.750	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	588	0.0300	0.6		Lag/CN Method,

Subcatchment W144: W144

Hydrograph



Subcatchment W145: W145

Runoff = 16.39 cfs @ 12.16 hrs, Volume= 1.360 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

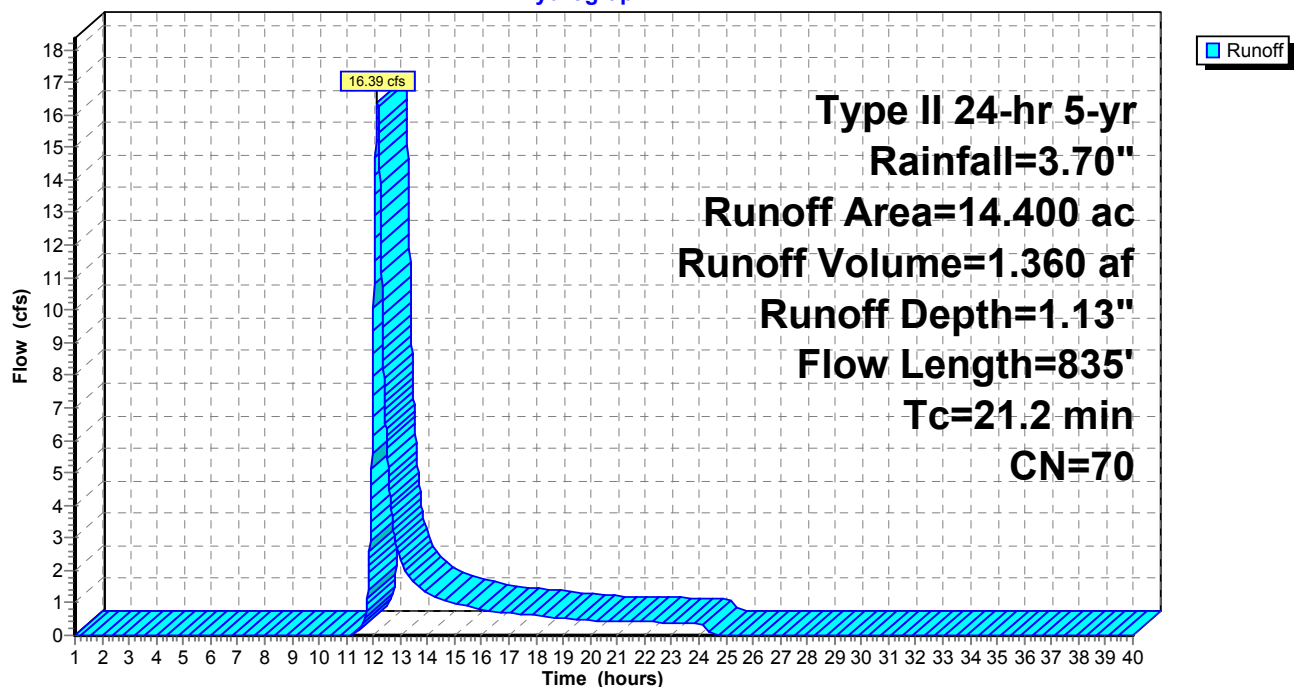
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
14.400	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	835	0.0300	0.7		Lag/CN Method,

Subcatchment W145: W145

Hydrograph



Subcatchment W146: W146

Runoff = 22.40 cfs @ 12.19 hrs, Volume= 2.079 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

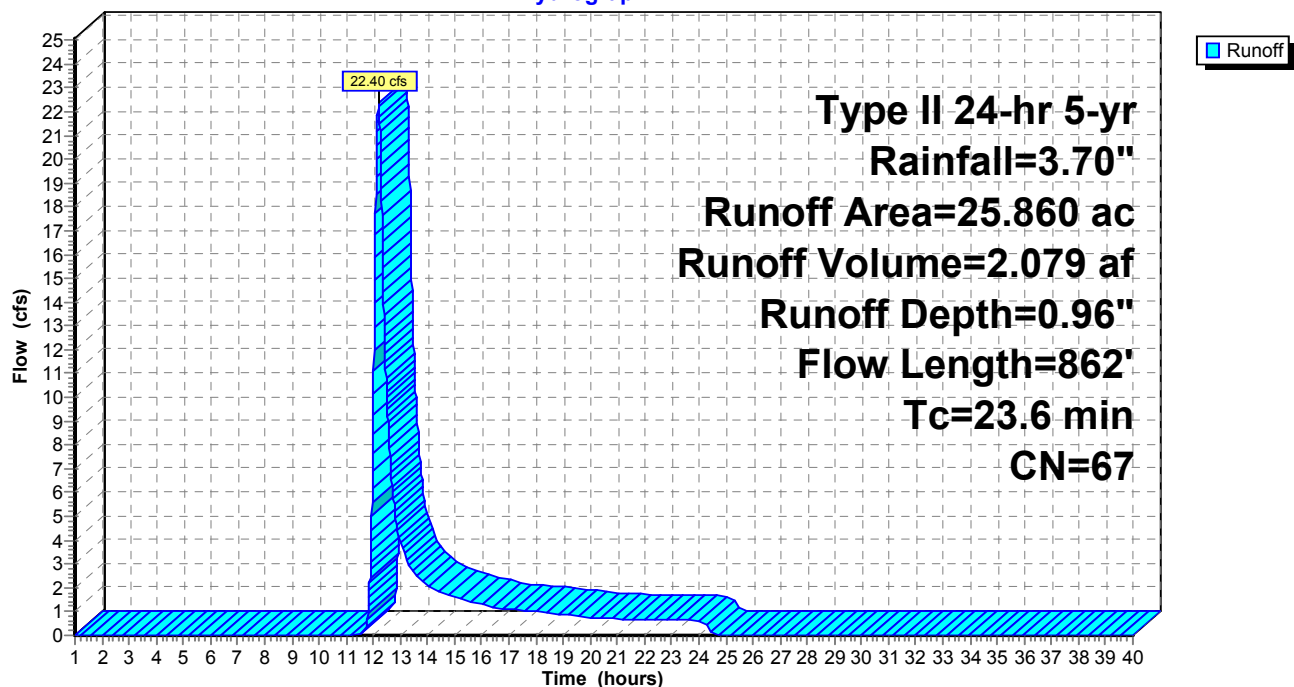
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
25.860	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.6	862	0.0300	0.6		Lag/CN Method,

Subcatchment W146: W146

Hydrograph



Subcatchment W150: W150

Runoff = 20.18 cfs @ 12.25 hrs, Volume= 2.389 af, Depth= 0.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

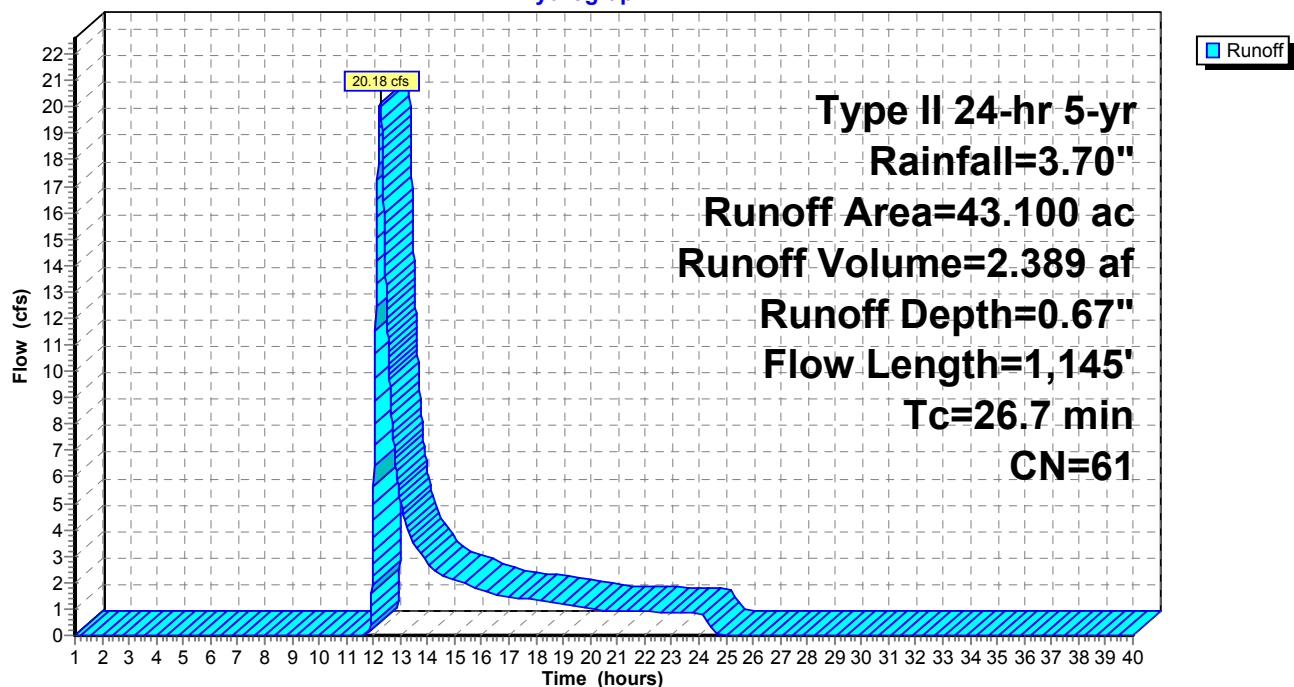
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
43.100	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,145	0.0500	0.7		Lag/CN Method,

Subcatchment W150: W150

Hydrograph



Subcatchment W2: W2

Runoff = 1.23 cfs @ 12.00 hrs, Volume= 0.213 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

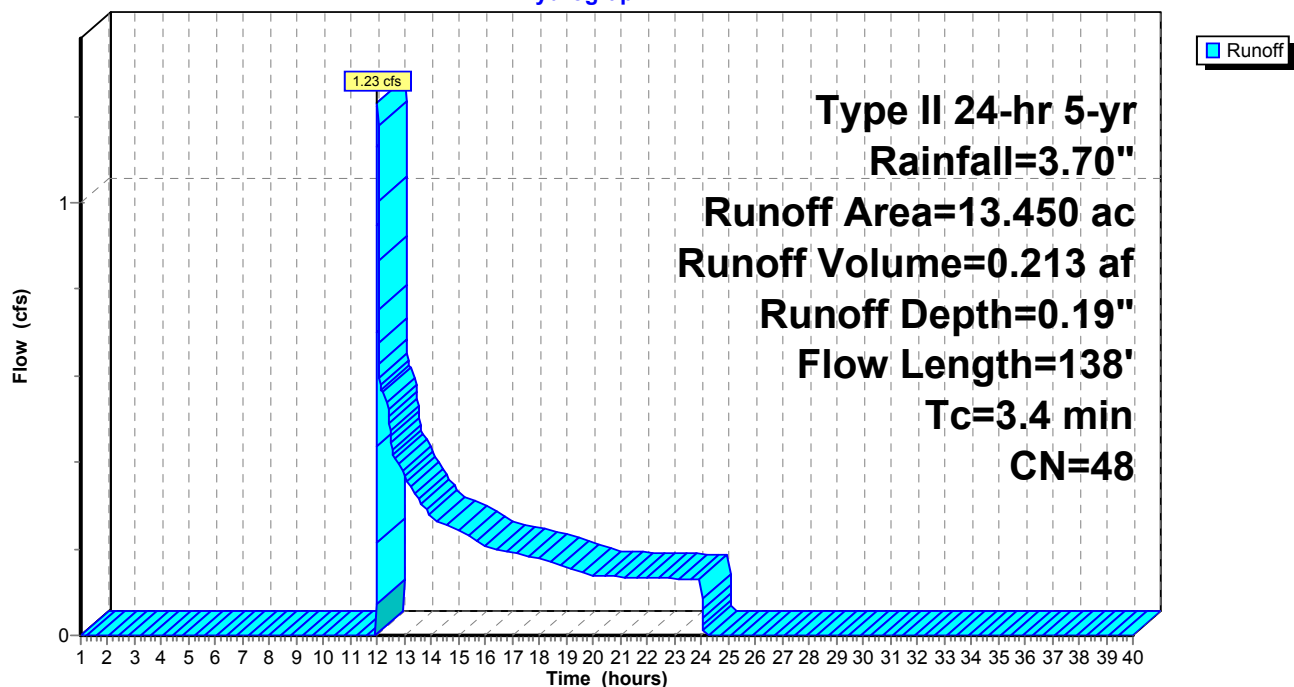
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
13.450	48	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	138	0.2000	0.7		Lag/CN Method,

Subcatchment W2: W2

Hydrograph



Subcatchment W30: W30

Runoff = 27.52 cfs @ 11.98 hrs, Volume= 1.378 af, Depth= 0.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

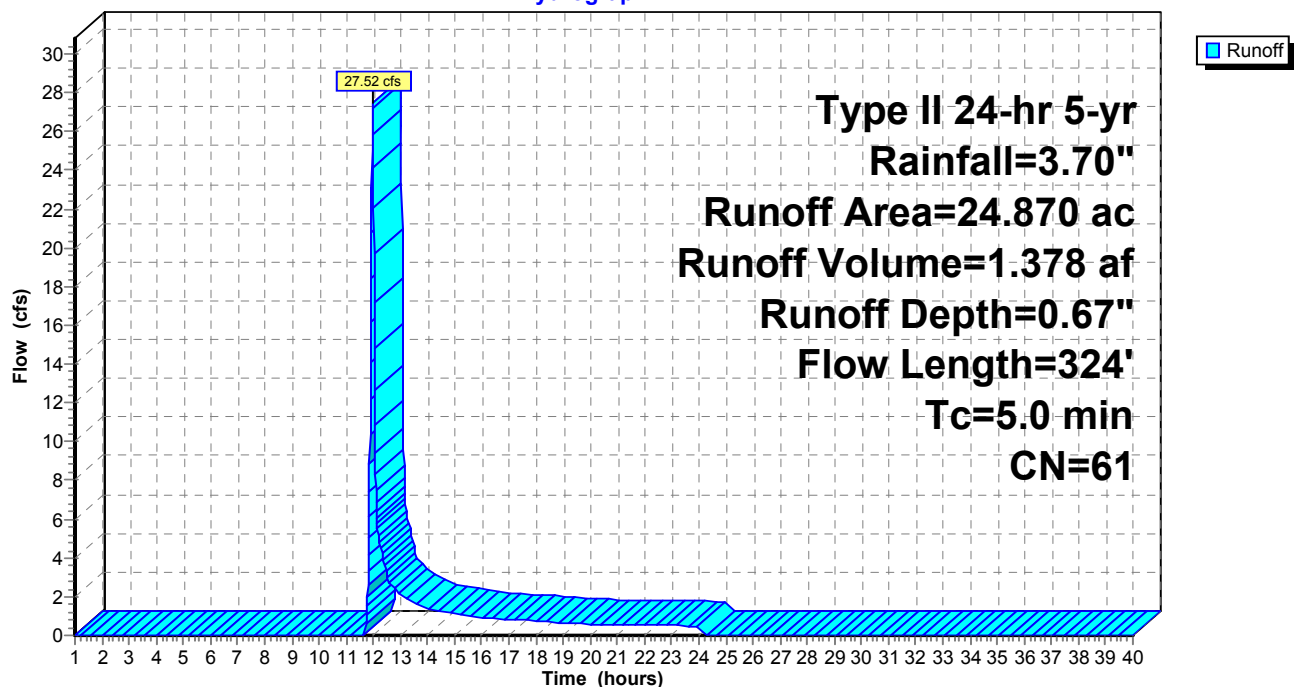
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
24.870	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	324	0.1900	1.1		Lag/CN Method,

Subcatchment W30: W30

Hydrograph



Subcatchment W31: W31

Runoff = 51.63 cfs @ 12.06 hrs, Volume= 3.406 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

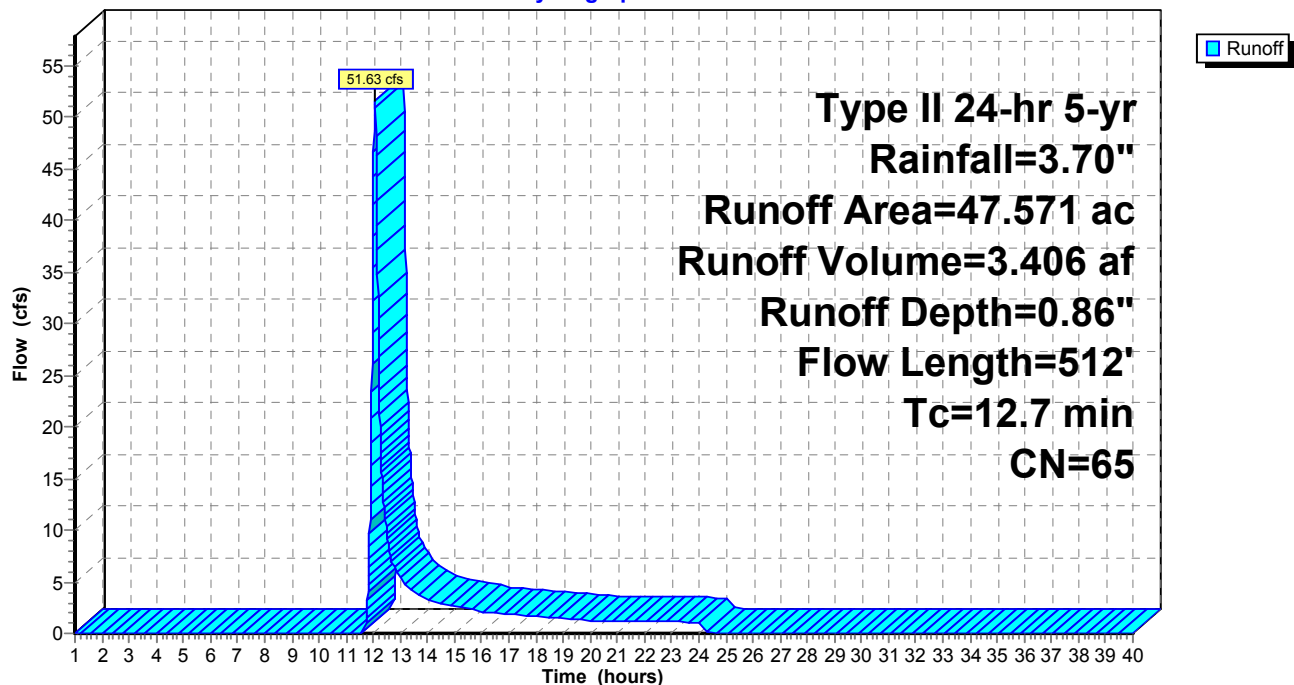
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
47.571	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	512	0.0500	0.7		Lag/CN Method,

Subcatchment W31: W31

Hydrograph



Subcatchment W32: W32

Runoff = 82.78 cfs @ 12.02 hrs, Volume= 4.673 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

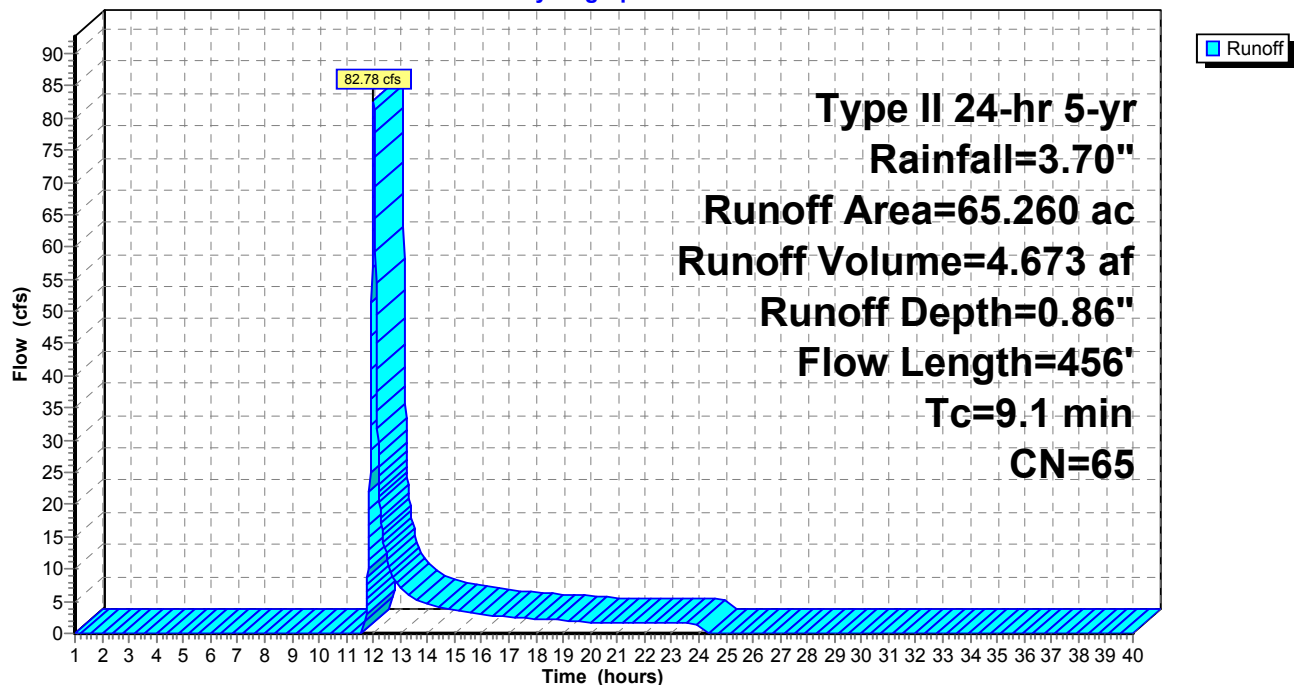
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
65.260	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	456	0.0800	0.8		Lag/CN Method,

Subcatchment W32: W32

Hydrograph



Subcatchment W33: W33

Runoff = 12.68 cfs @ 11.96 hrs, Volume= 0.611 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

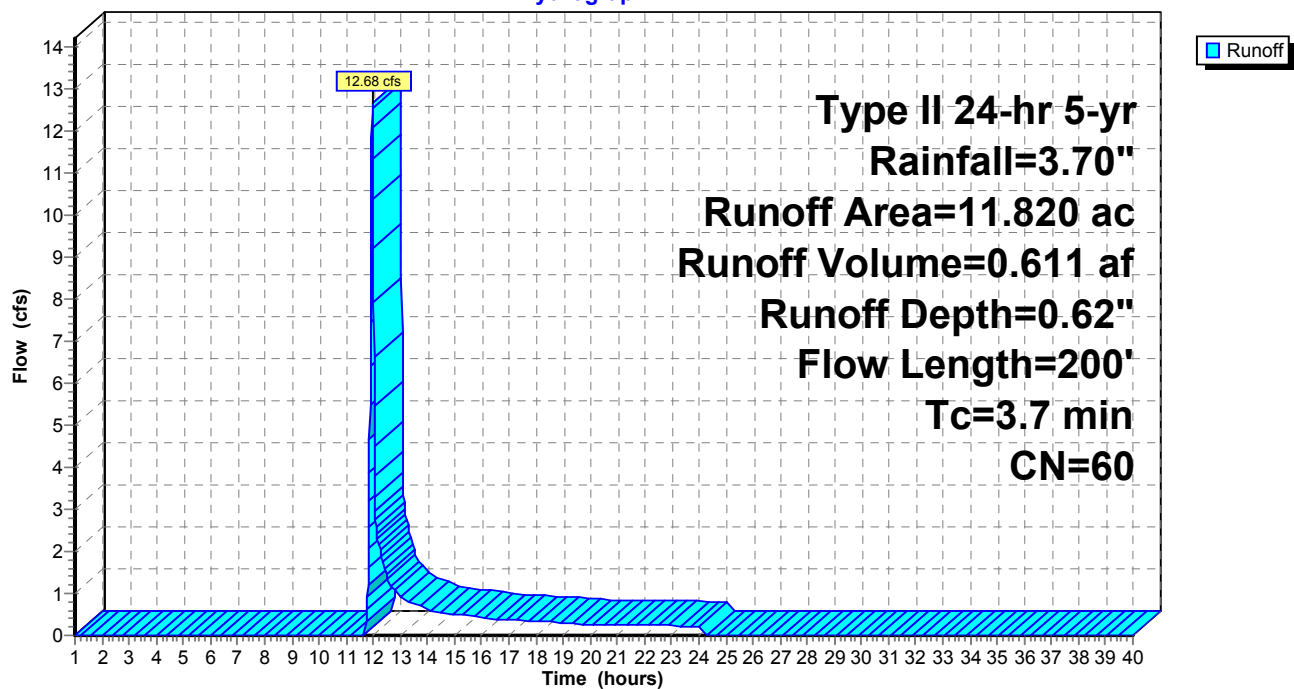
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
11.820	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	200	0.1700	0.9		Lag/CN Method,

Subcatchment W33: W33

Hydrograph



Subcatchment W34: W34

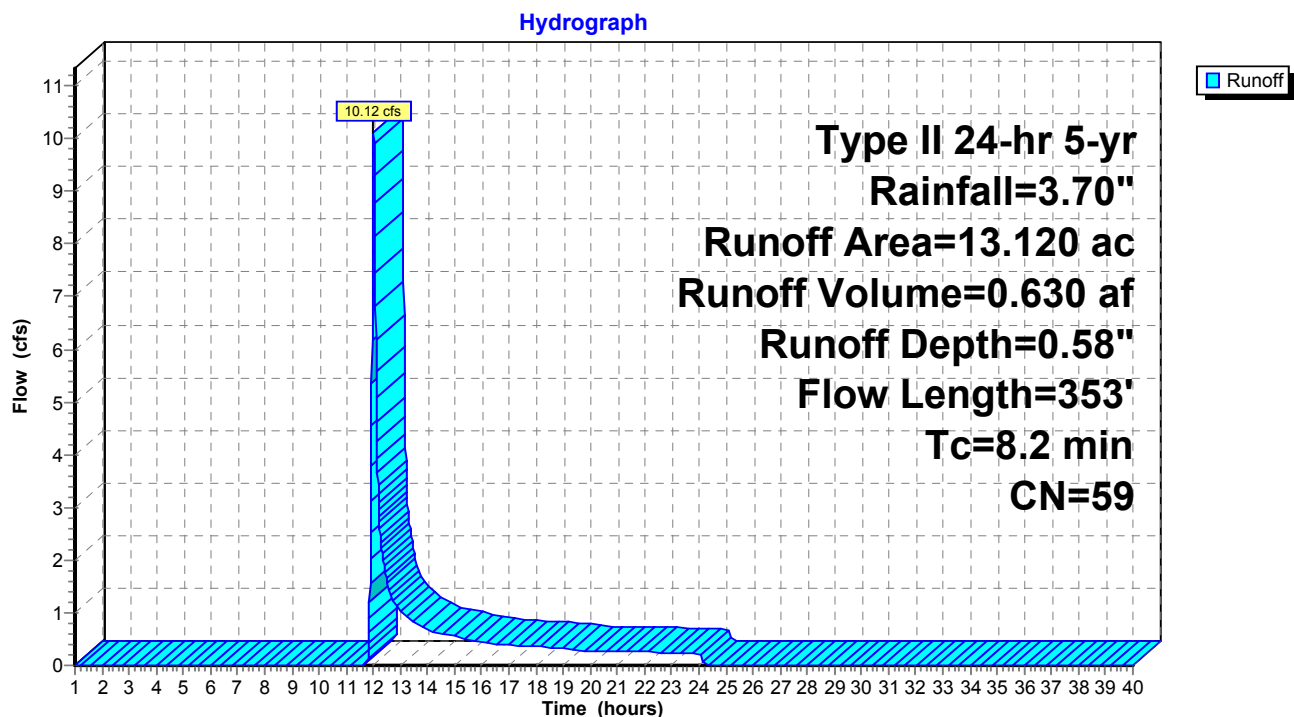
Runoff = 10.12 cfs @ 12.02 hrs, Volume= 0.630 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
13.120	59	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	353	0.0900	0.7		Lag/CN Method,

Subcatchment W34: W34

Subcatchment W35: W35

Runoff = 5.47 cfs @ 11.97 hrs, Volume= 0.269 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

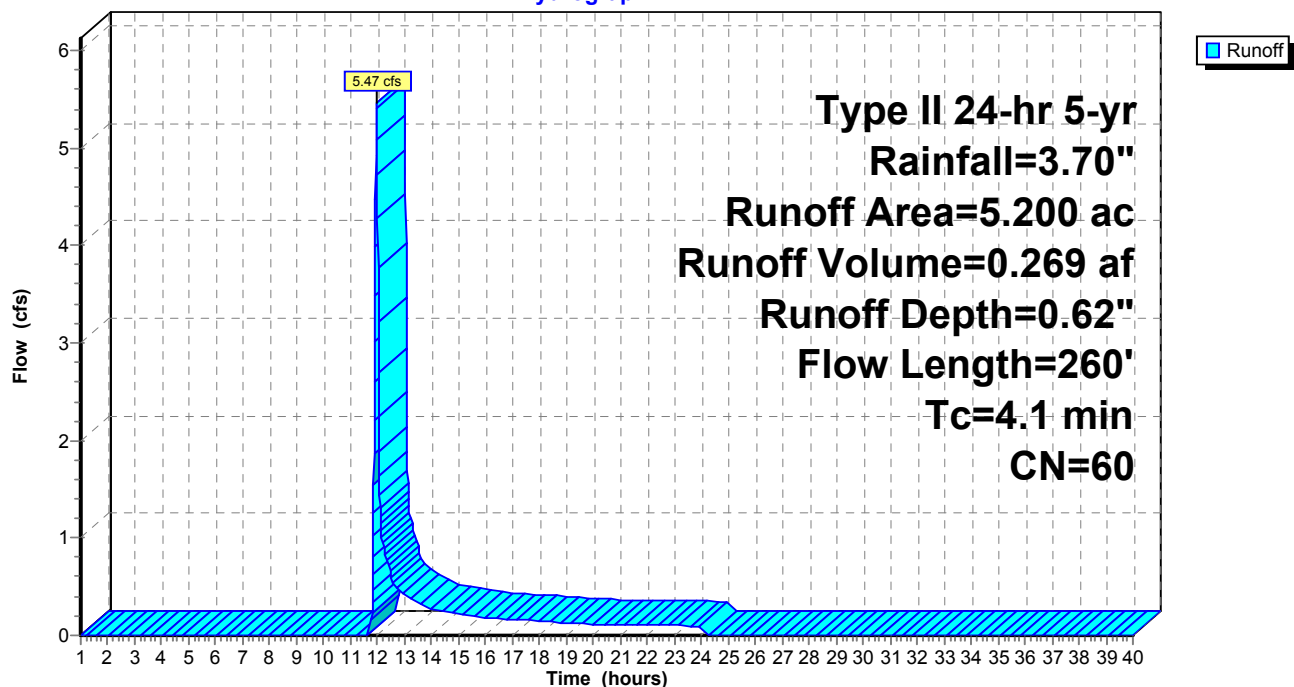
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.200	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	260	0.2100	1.1		Lag/CN Method,

Subcatchment W35: W35

Hydrograph



Subcatchment W36: W36

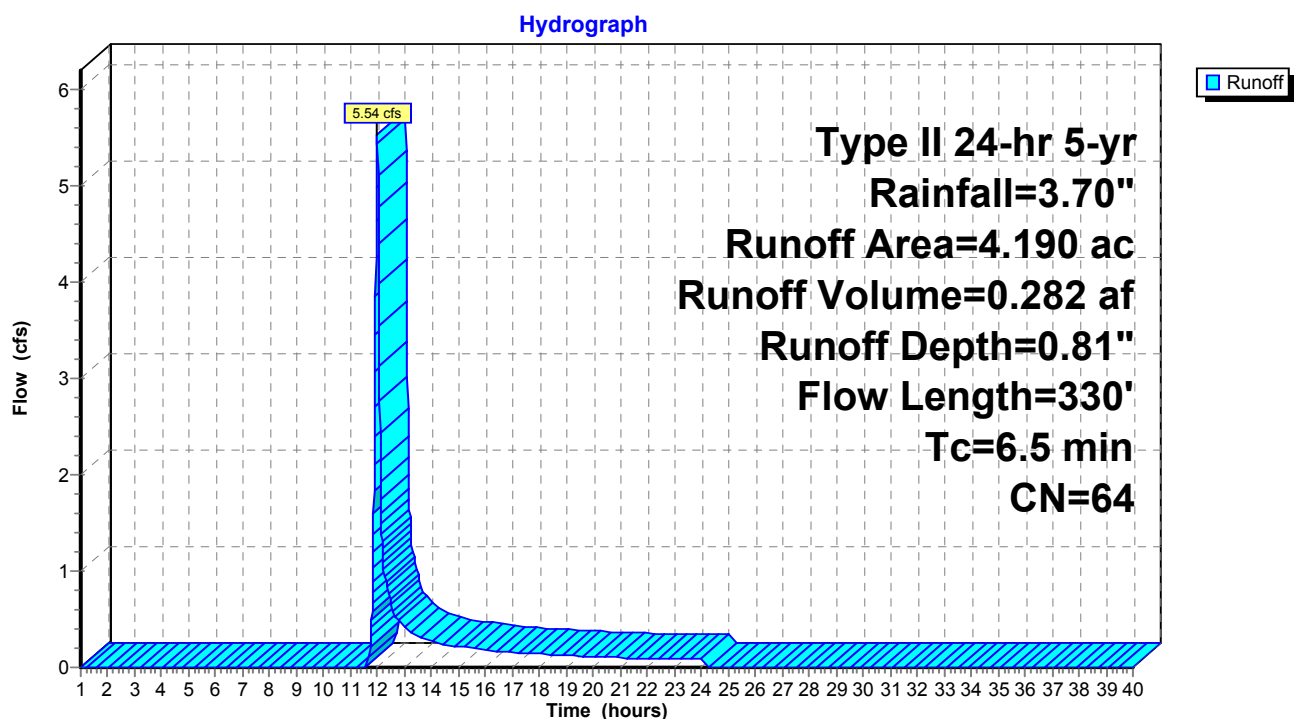
Runoff = 5.54 cfs @ 11.99 hrs, Volume= 0.282 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.190	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	330	0.1000	0.9		Lag/CN Method,

Subcatchment W36: W36

Subcatchment W37: W37

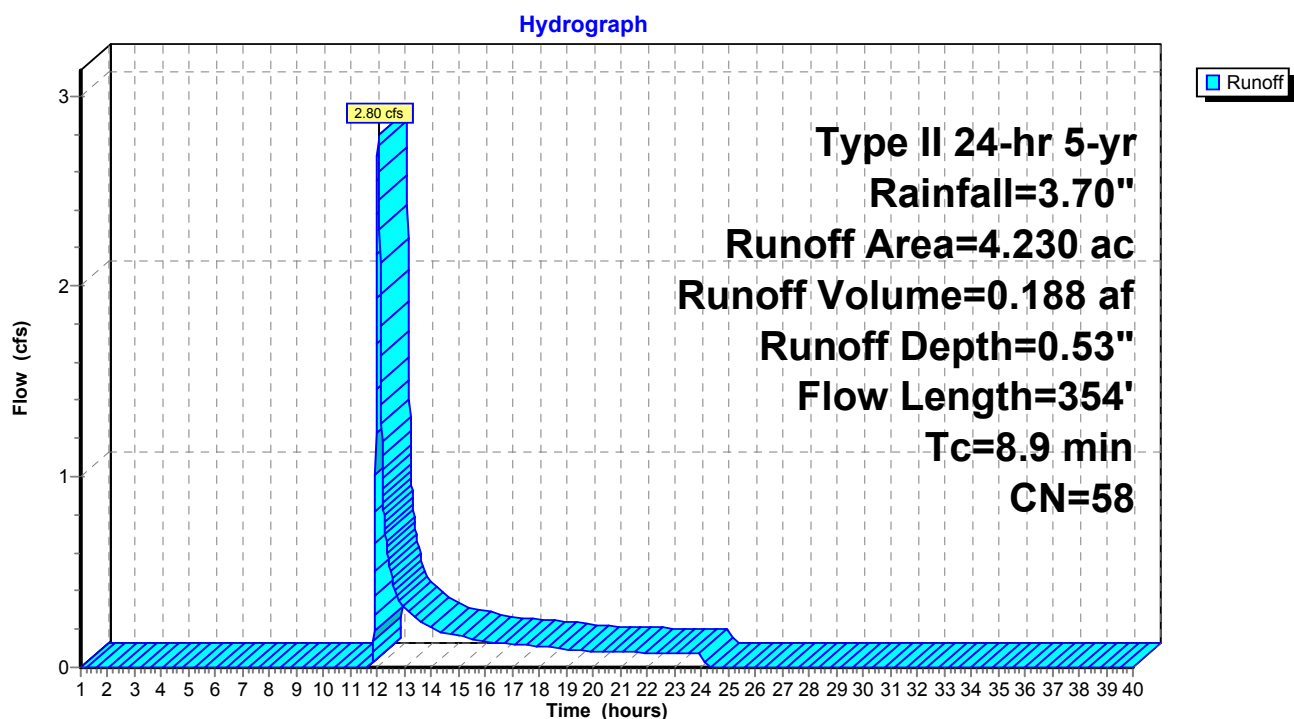
Runoff = 2.80 cfs @ 12.03 hrs, Volume= 0.188 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.230	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	354	0.0800	0.7		Lag/CN Method,

Subcatchment W37: W37

Subcatchment W38: W38

Runoff = 23.22 cfs @ 11.96 hrs, Volume= 1.032 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

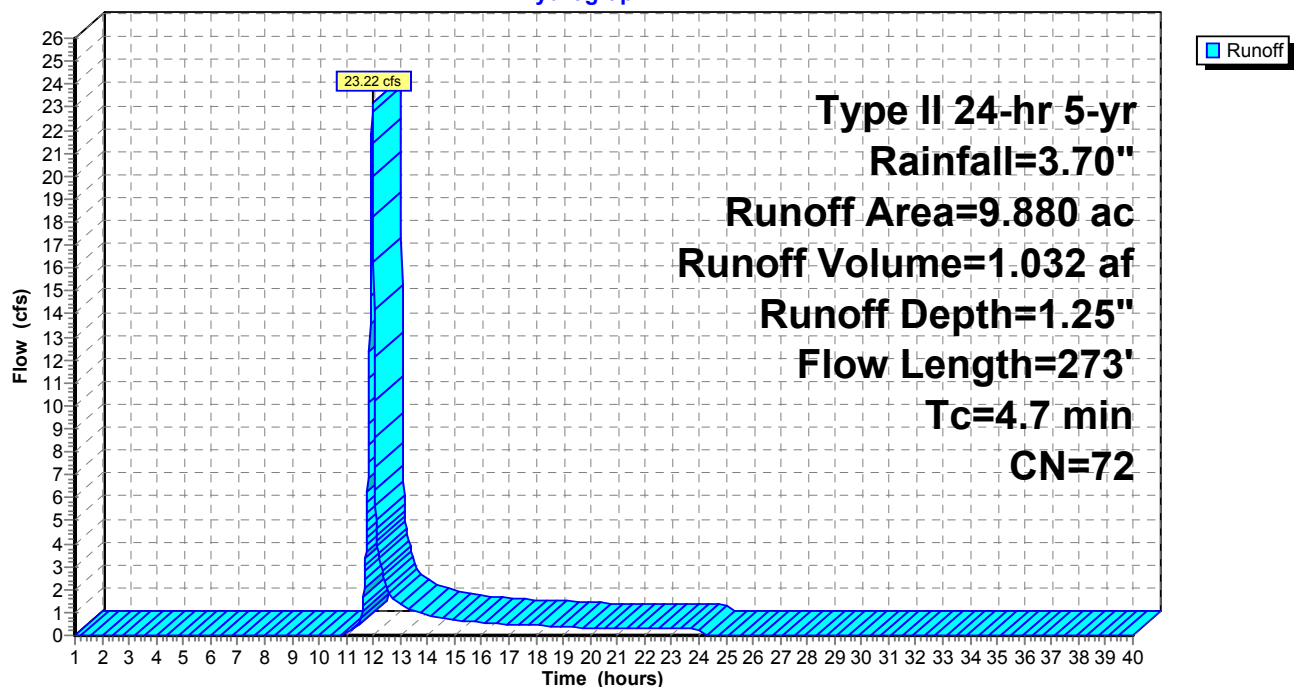
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.880	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	273	0.0900	1.0		Lag/CN Method,

Subcatchment W38: W38

Hydrograph



Subcatchment W39: W39

Runoff = 11.48 cfs @ 12.03 hrs, Volume= 0.706 af, Depth= 0.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

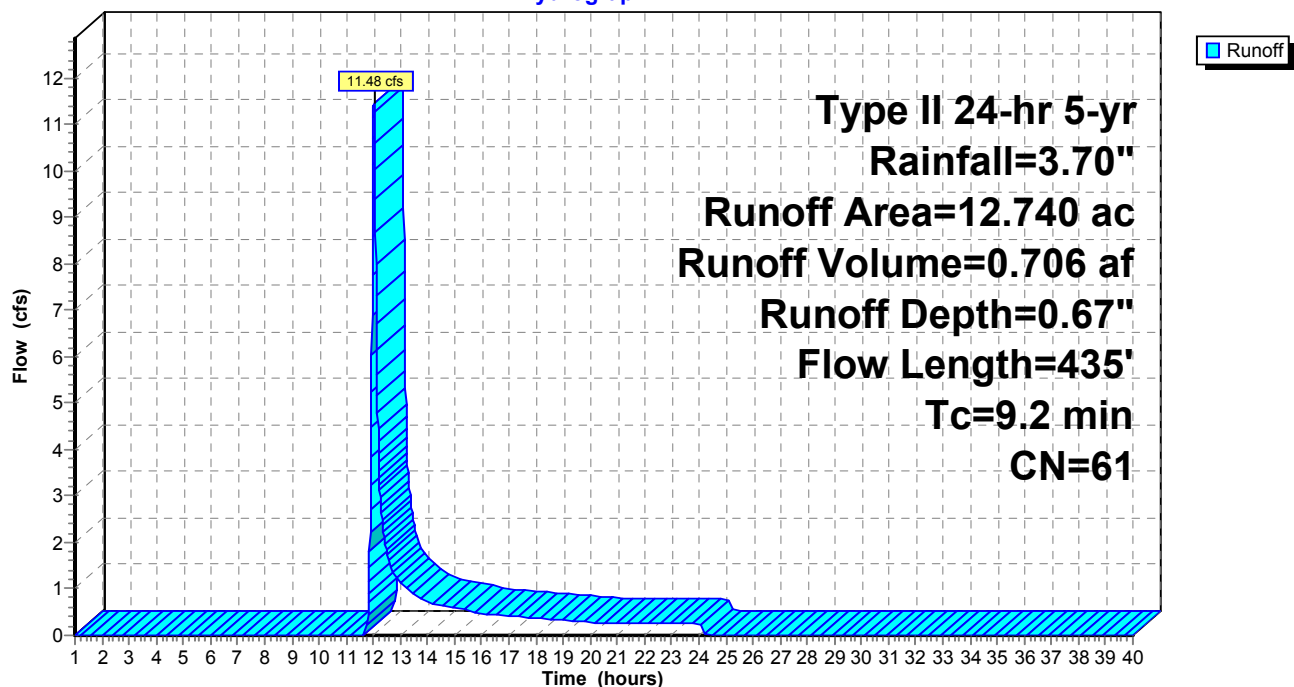
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
12.740	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	435	0.0900	0.8		Lag/CN Method,

Subcatchment W39: W39

Hydrograph



Subcatchment W40: W40

Runoff = 61.74 cfs @ 11.95 hrs, Volume= 2.666 af, Depth= 1.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

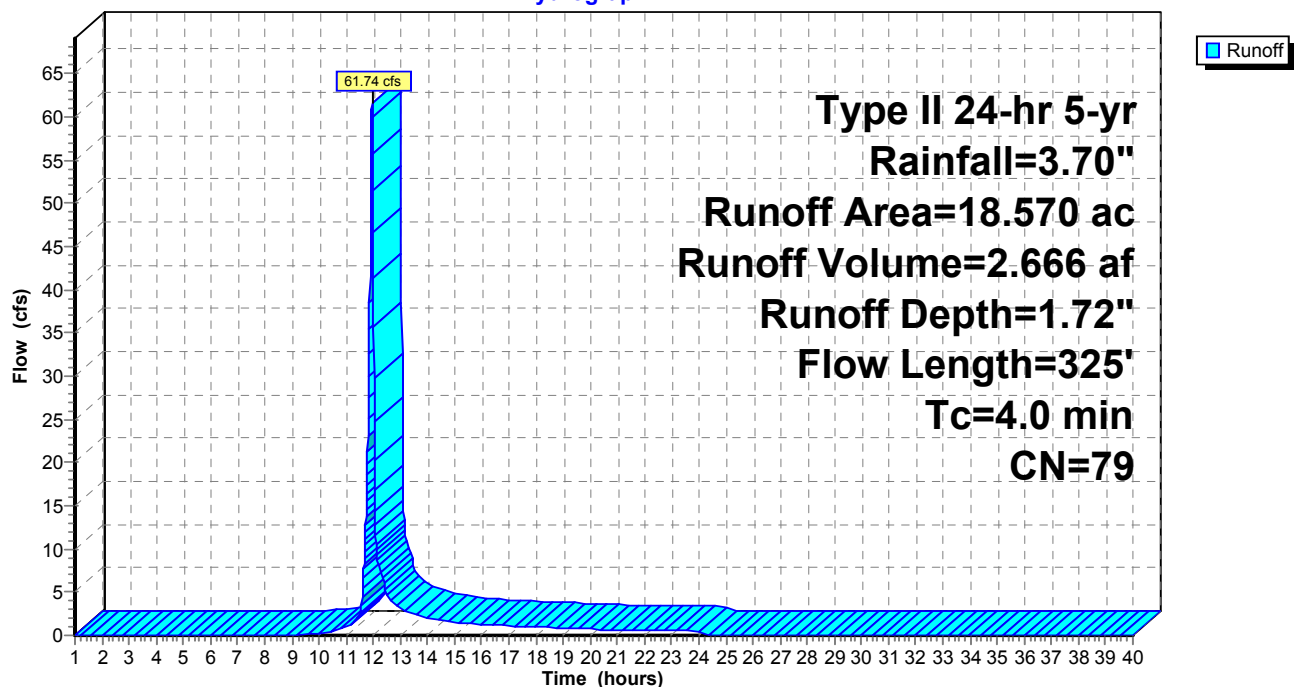
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.570	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	325	0.1100	1.3		Lag/CN Method,

Subcatchment W40: W40

Hydrograph



Subcatchment W41: W41

Runoff = 12.71 cfs @ 11.99 hrs, Volume= 0.625 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

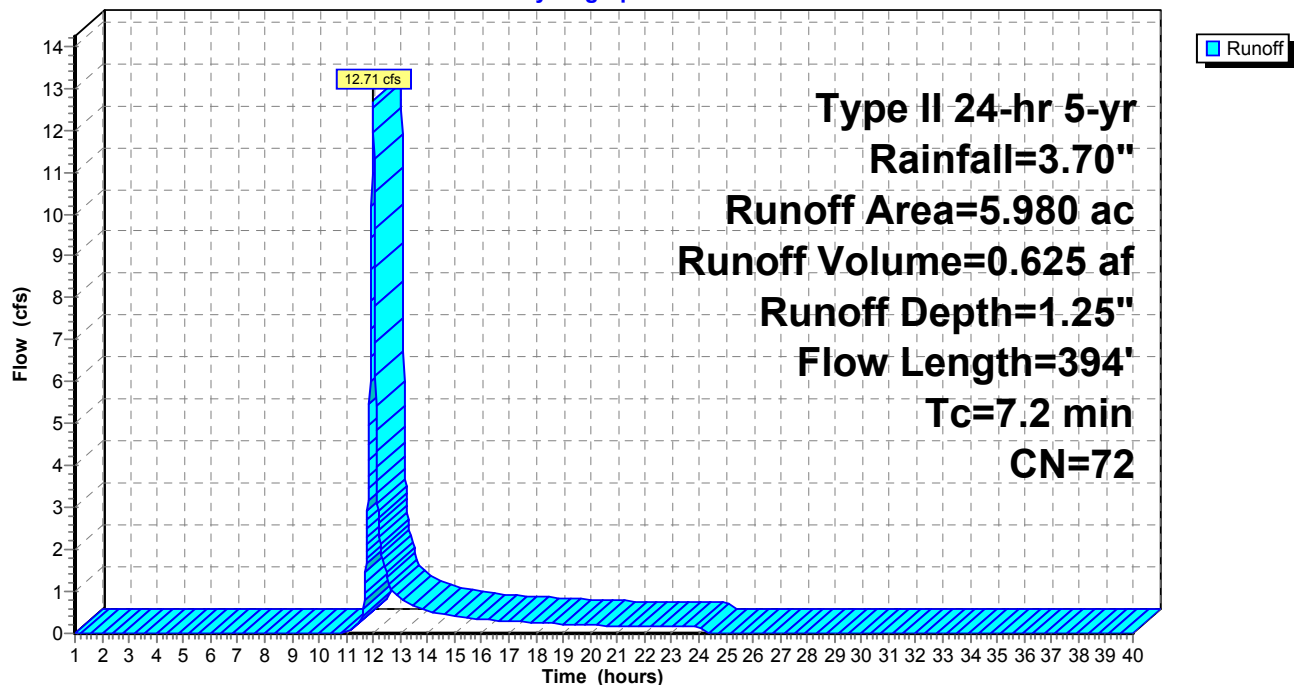
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.980	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	394	0.0700	0.9		Lag/CN Method,

Subcatchment W41: W41

Hydrograph



Subcatchment W42: W42

Runoff = 11.55 cfs @ 11.94 hrs, Volume= 0.483 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

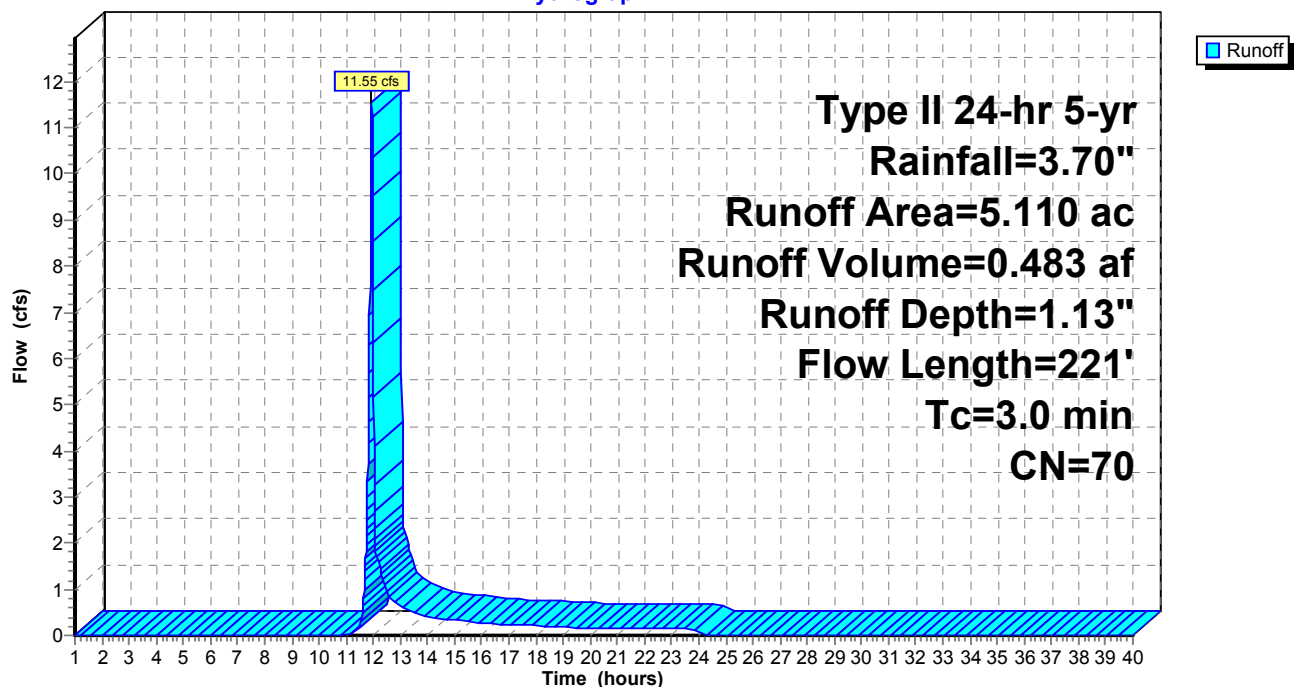
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.110	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	221	0.1800	1.2		Lag/CN Method,

Subcatchment W42: W42

Hydrograph



Subcatchment W43: W43

Runoff = 8.58 cfs @ 12.04 hrs, Volume= 0.522 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

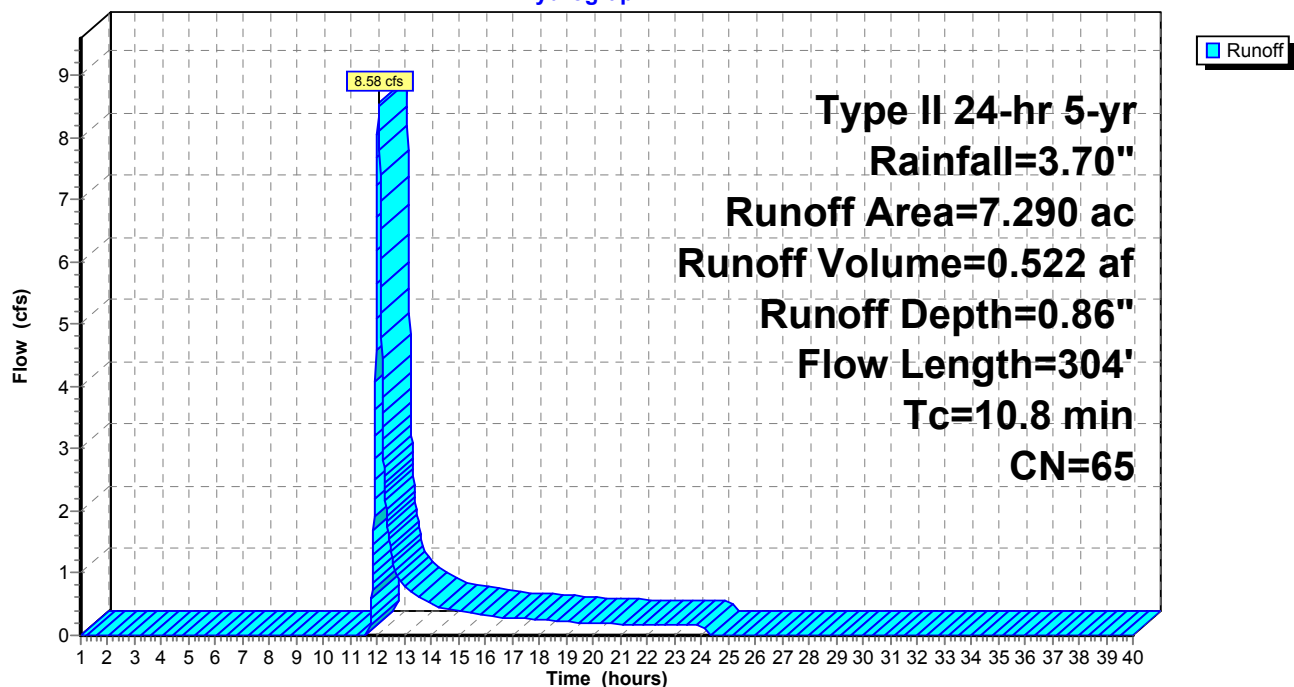
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.290	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	304	0.0300	0.5		Lag/CN Method,

Subcatchment W43: W43

Hydrograph



Subcatchment W44: W44

Runoff = 7.77 cfs @ 12.13 hrs, Volume= 0.607 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

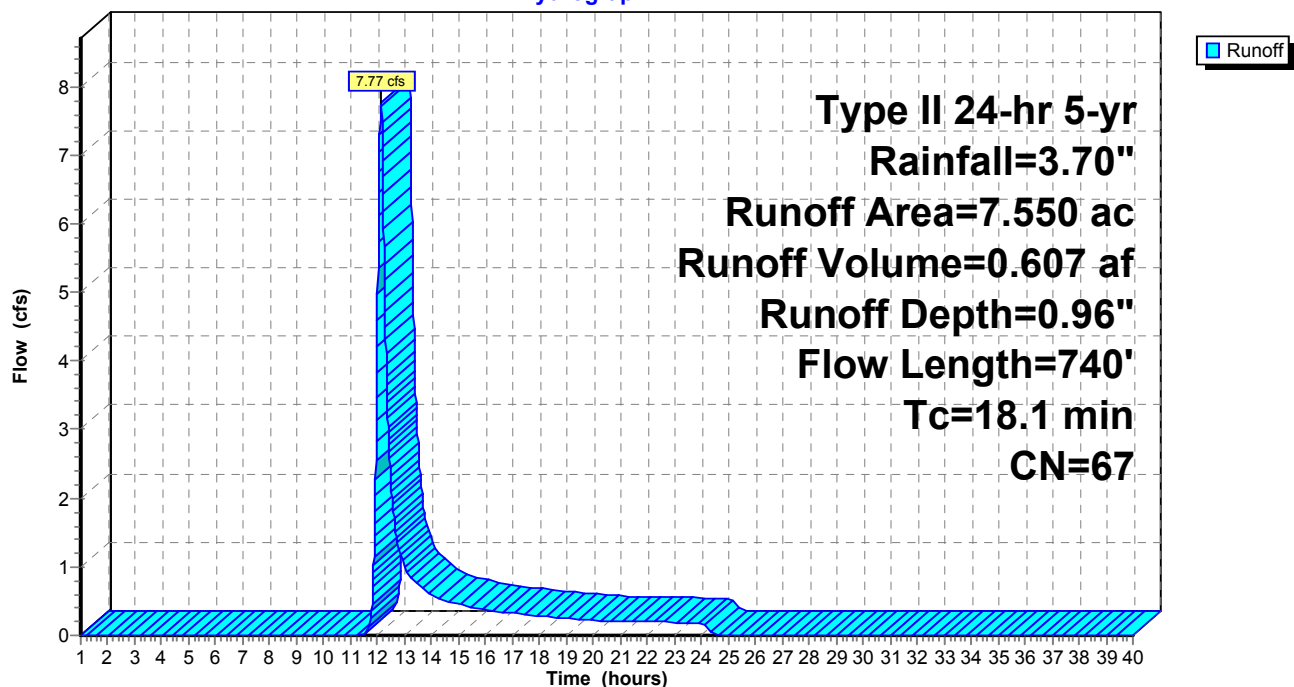
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.550	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.1	740	0.0400	0.7		Lag/CN Method,

Subcatchment W44: W44

Hydrograph



Subcatchment W45: W45

Runoff = 15.12 cfs @ 11.97 hrs, Volume= 0.696 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

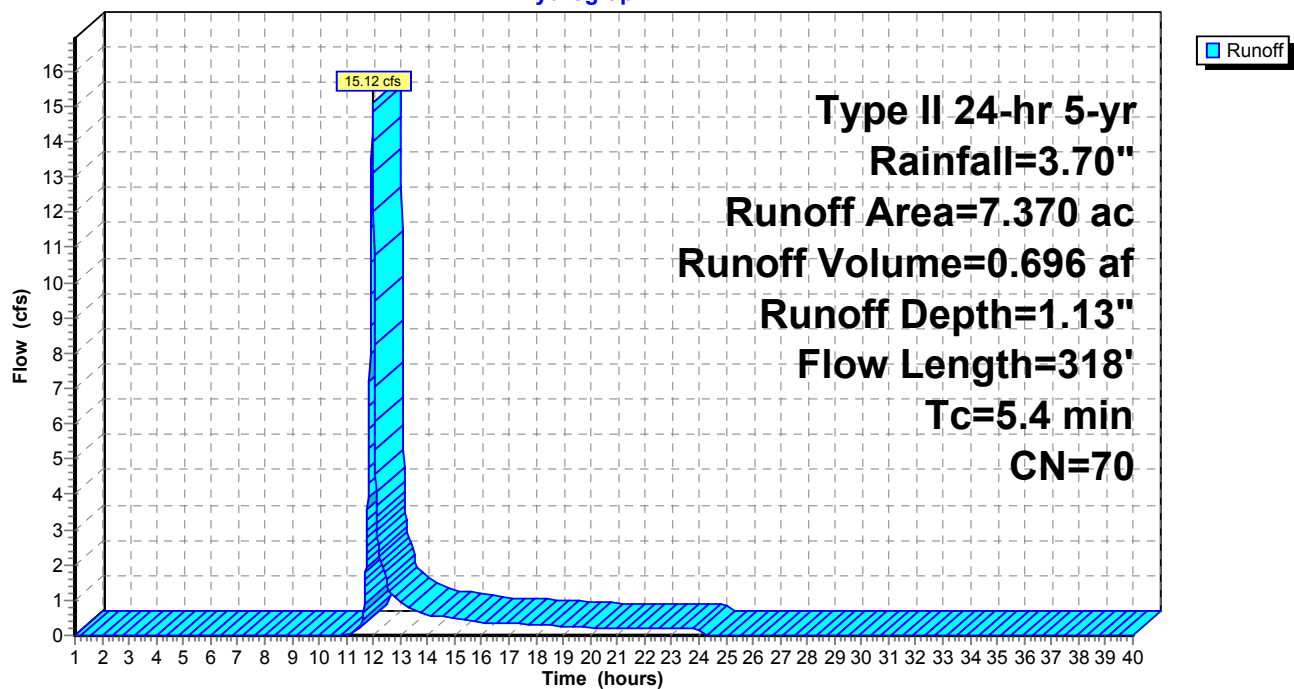
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.370	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.4	318	0.1000	1.0		Lag/CN Method,

Subcatchment W45: W45

Hydrograph



Subcatchment W46: W46

Runoff = 19.34 cfs @ 12.15 hrs, Volume= 1.536 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

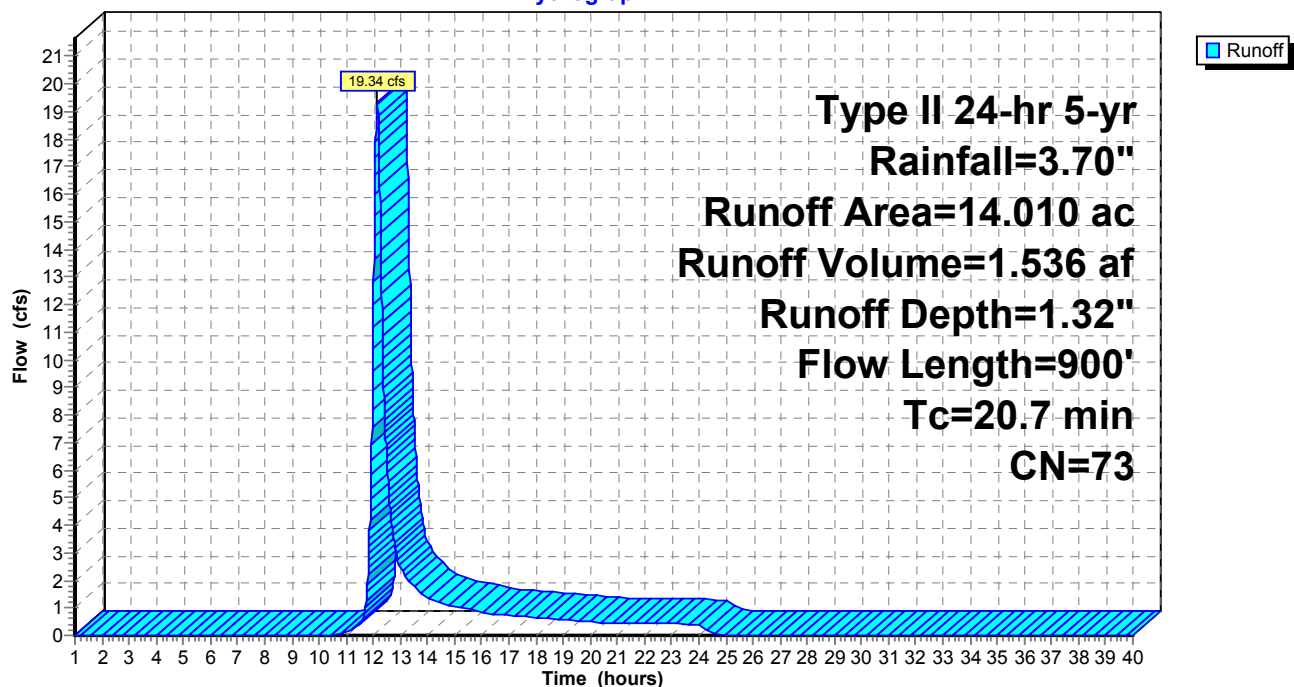
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
14.010	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.7	900	0.0300	0.7		Lag/CN Method,

Subcatchment W46: W46

Hydrograph



Subcatchment W47: W47

Runoff = 7.70 cfs @ 12.15 hrs, Volume= 0.622 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

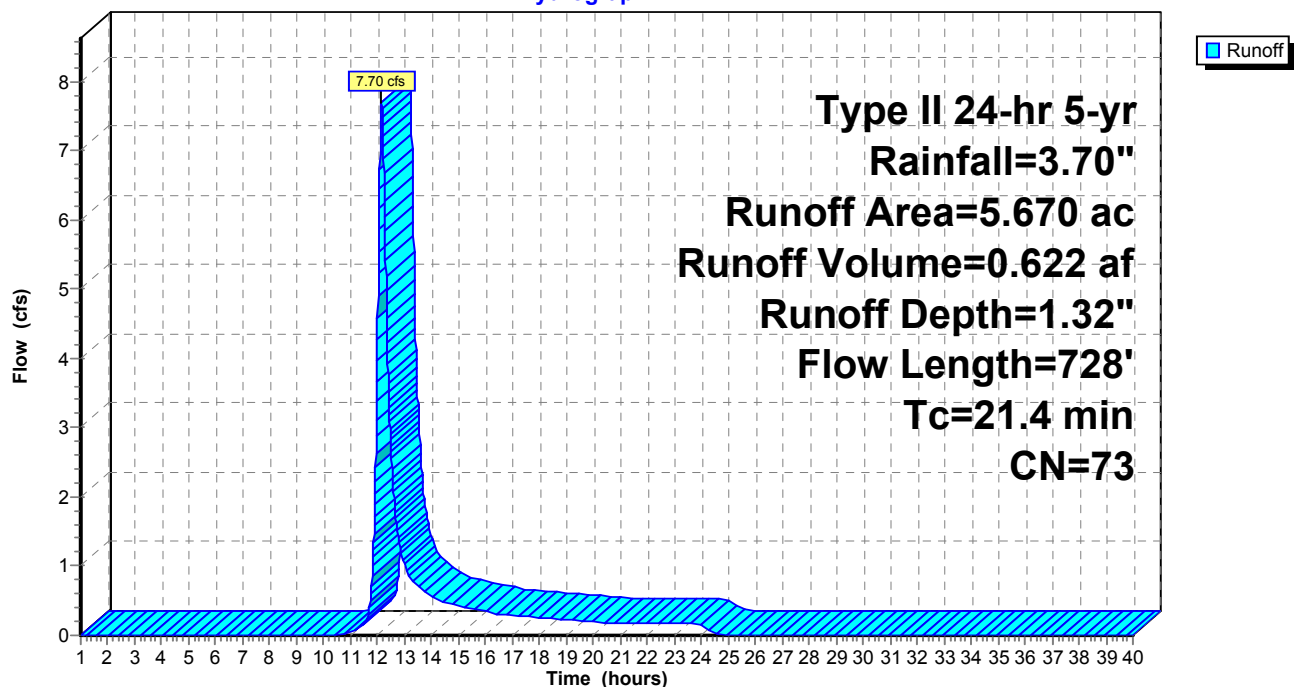
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.670	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.4	728	0.0200	0.6		Lag/CN Method,

Subcatchment W47: W47

Hydrograph



Subcatchment W48: W48

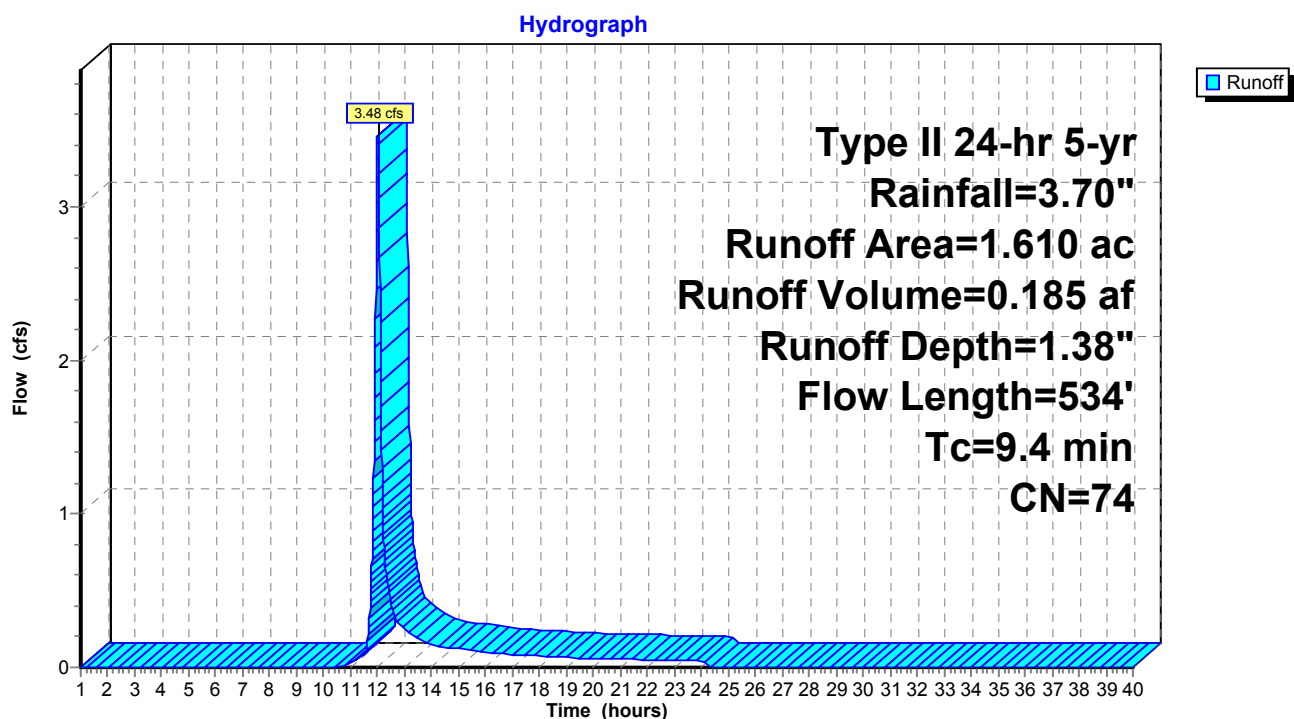
Runoff = 3.48 cfs @ 12.02 hrs, Volume= 0.185 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
1.610	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	534	0.0600	0.9		Lag/CN Method,

Subcatchment W48: W48

Subcatchment W49: W49

Runoff = 26.61 cfs @ 11.99 hrs, Volume= 1.298 af, Depth= 1.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

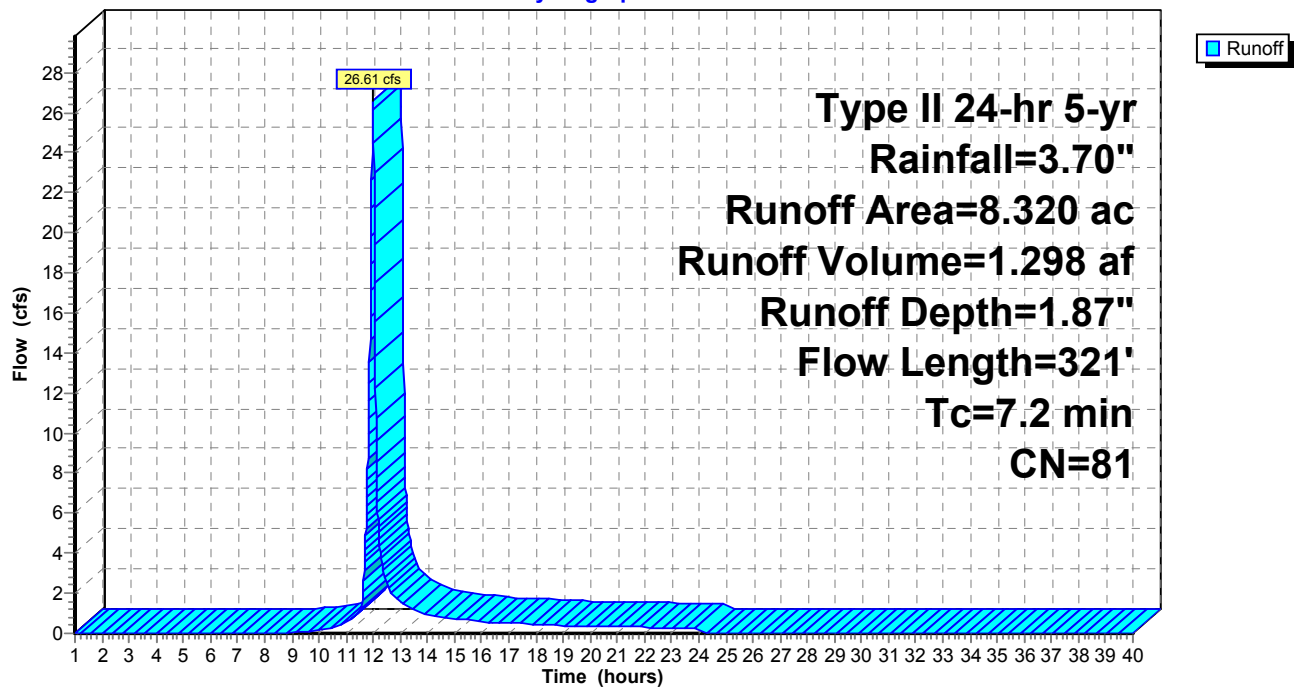
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.320	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	321	0.0300	0.7		Lag/CN Method,

Subcatchment W49: W49

Hydrograph



Subcatchment W50: W50

Runoff = 29.99 cfs @ 12.26 hrs, Volume= 2.951 af, Depth= 1.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

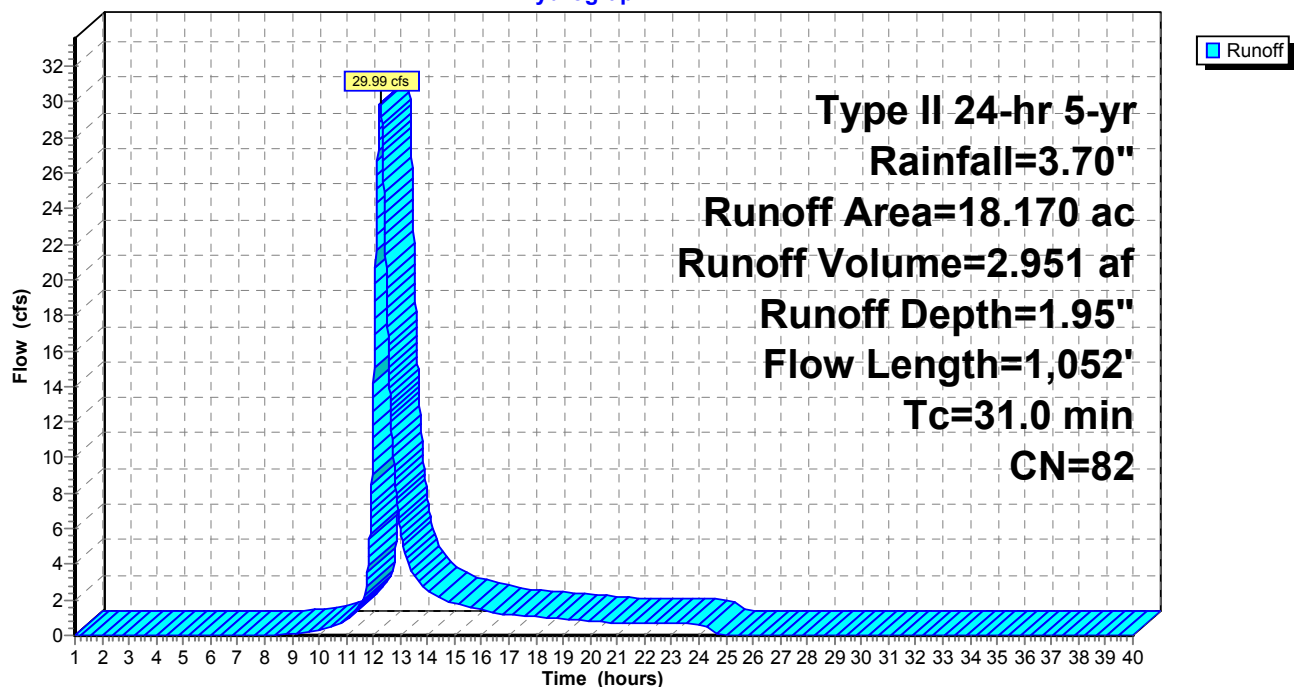
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.170	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	1,052	0.0100	0.6		Lag/CN Method,

Subcatchment W50: W50

Hydrograph



Subcatchment W51: W51

Runoff = 12.12 cfs @ 12.05 hrs, Volume= 0.728 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

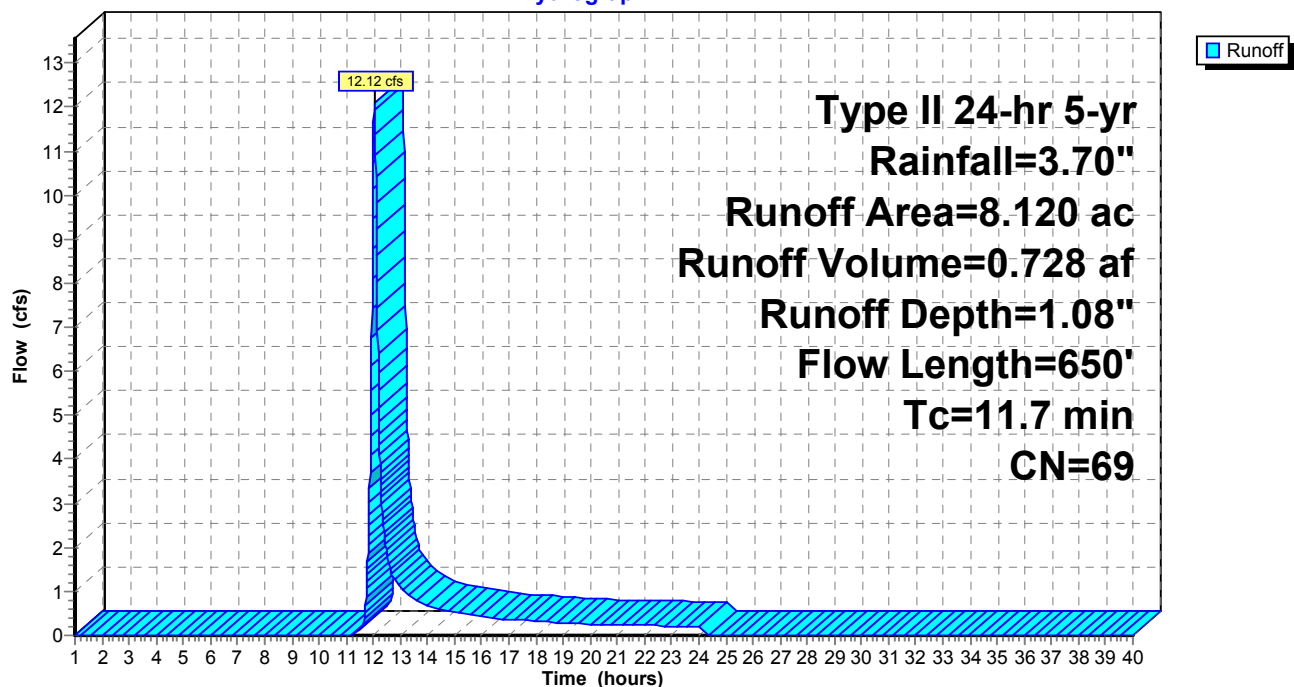
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.120	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	650	0.0700	0.9		Lag/CN Method,

Subcatchment W51: W51

Hydrograph



Subcatchment W52: W52

Runoff = 14.11 cfs @ 12.01 hrs, Volume= 0.724 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

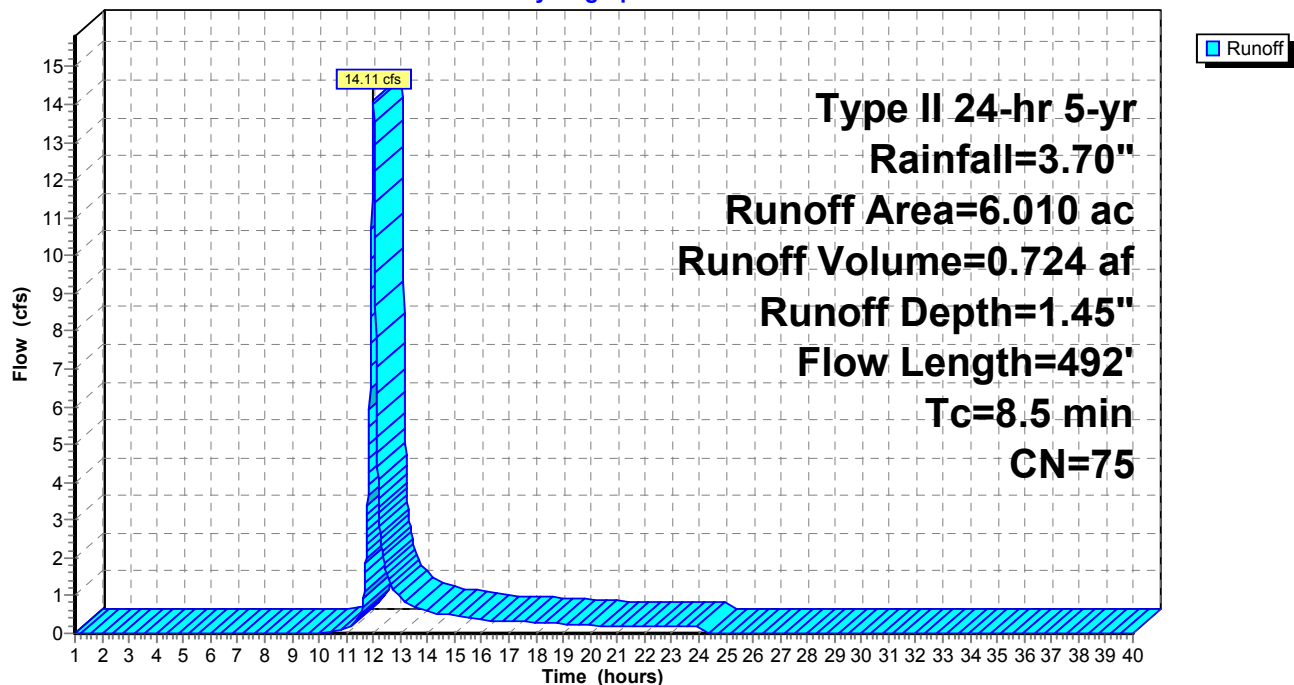
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
6.010	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	492	0.0600	1.0		Lag/CN Method,

Subcatchment W52: W52

Hydrograph



Subcatchment W53: W53

Runoff = 13.63 cfs @ 12.23 hrs, Volume= 1.277 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

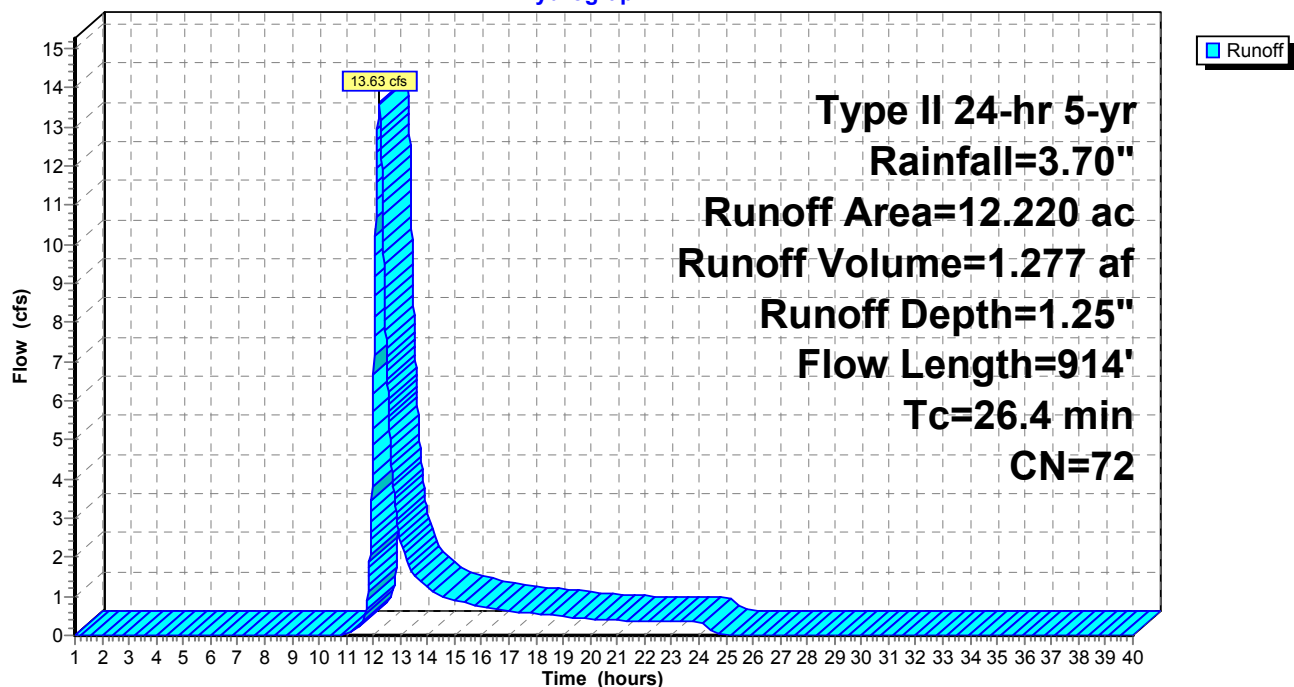
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
12.220	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	914	0.0200	0.6		Lag/CN Method,

Subcatchment W53: W53

Hydrograph



Subcatchment W54: W54

Runoff = 17.20 cfs @ 12.04 hrs, Volume= 0.974 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

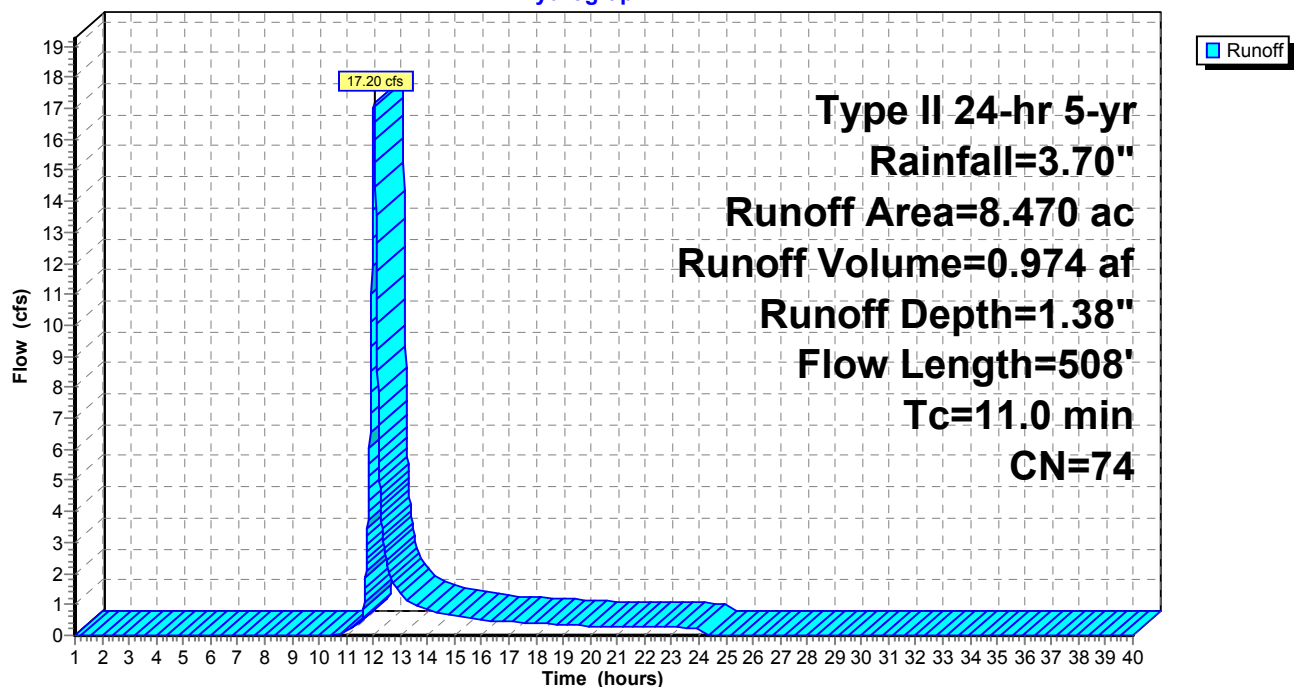
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.470	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	508	0.0400	0.8		Lag/CN Method,

Subcatchment W54: W54

Hydrograph



Subcatchment W55: W55

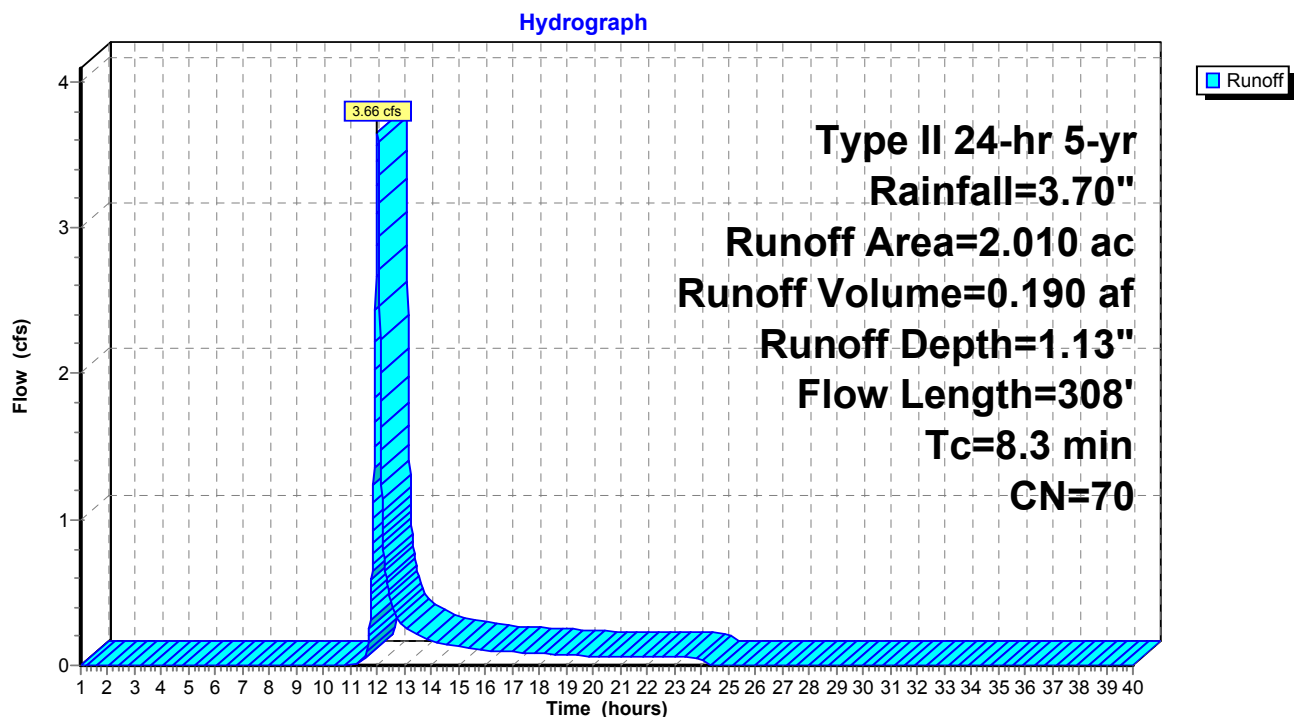
Runoff = 3.66 cfs @ 12.01 hrs, Volume= 0.190 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description			
2.010	70				

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	308	0.0400	0.6		Lag/CN Method,

Subcatchment W55: W55

Subcatchment W56: W56

Runoff = 11.20 cfs @ 11.97 hrs, Volume= 0.517 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

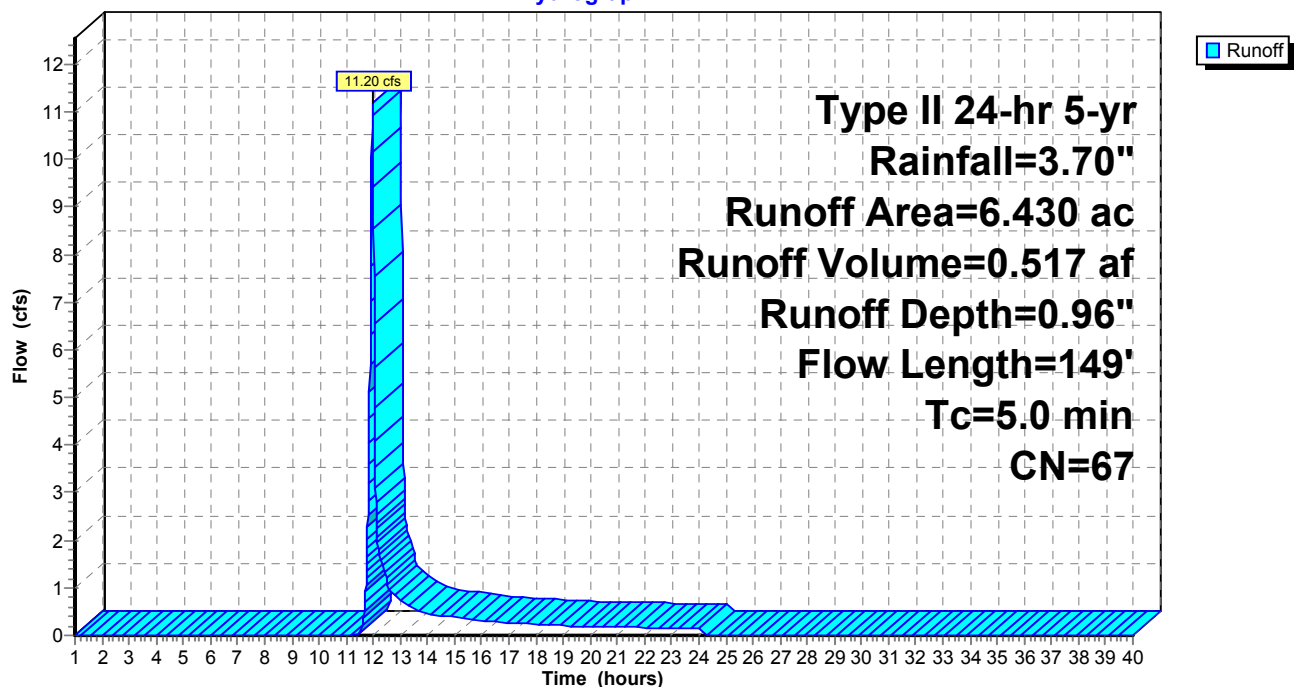
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
6.430	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	149	0.0400	0.5		Lag/CN Method,

Subcatchment W56: W56

Hydrograph



Subcatchment W57: W57

Runoff = 18.48 cfs @ 11.98 hrs, Volume= 0.890 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

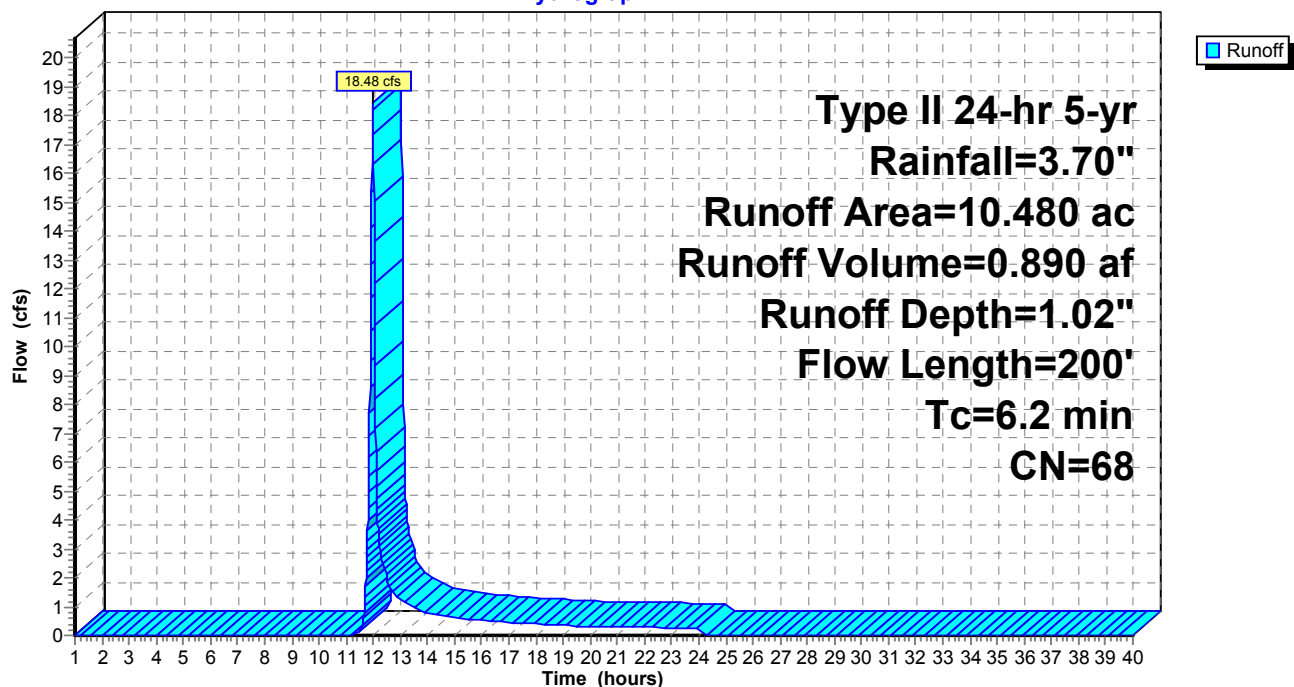
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
10.480	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	200	0.0400	0.5		Lag/CN Method,

Subcatchment W57: W57

Hydrograph



Subcatchment W58: W58

Runoff = 88.67 cfs @ 12.01 hrs, Volume= 4.734 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

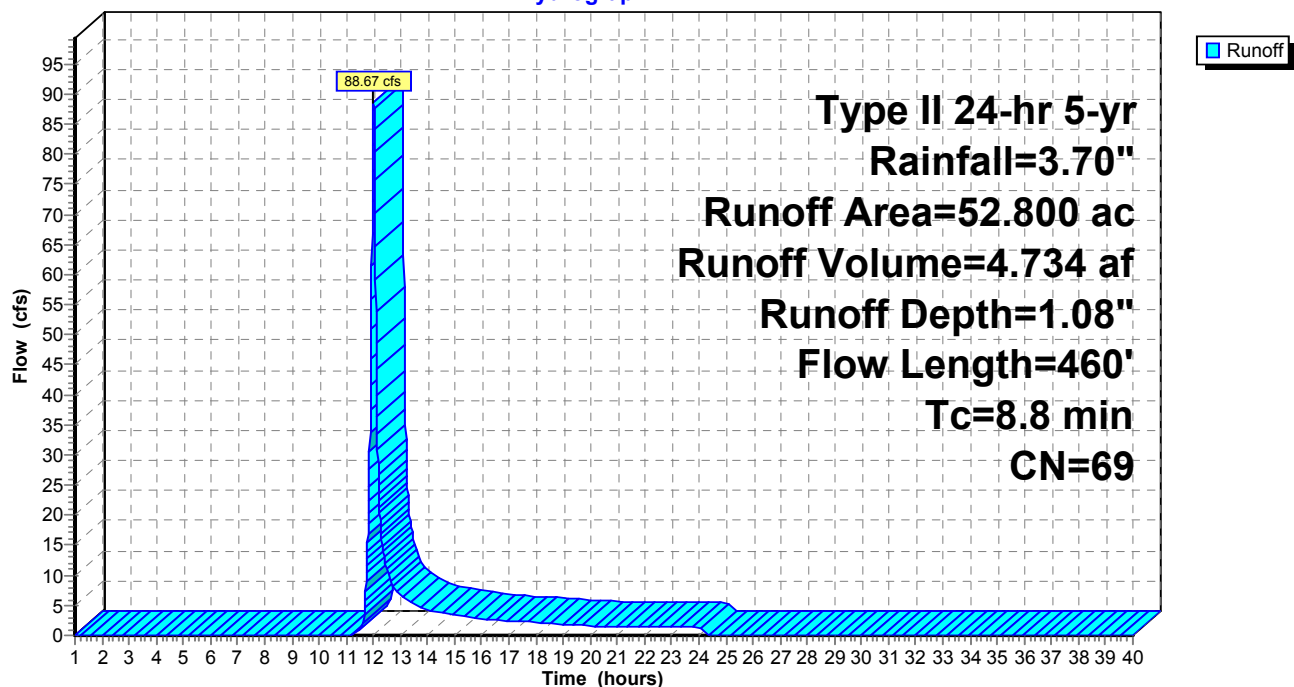
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
52.800	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	460	0.0700	0.9		Lag/CN Method,

Subcatchment W58: W58

Hydrograph



Subcatchment W59: W59

Runoff = 49.31 cfs @ 11.99 hrs, Volume= 2.434 af, Depth= 2.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

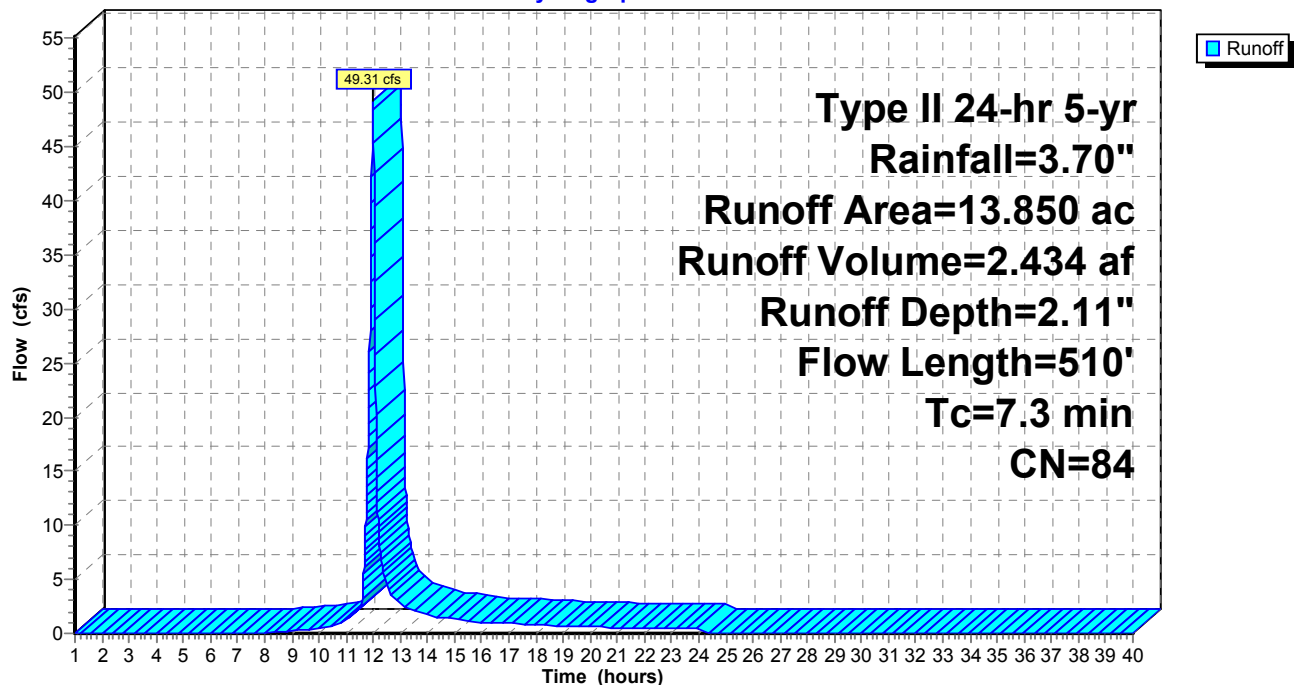
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
13.850	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	510	0.0500	1.2		Lag/CN Method,

Subcatchment W59: W59

Hydrograph



Subcatchment W60: W60

Runoff = 7.96 cfs @ 12.02 hrs, Volume= 0.440 af, Depth= 1.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

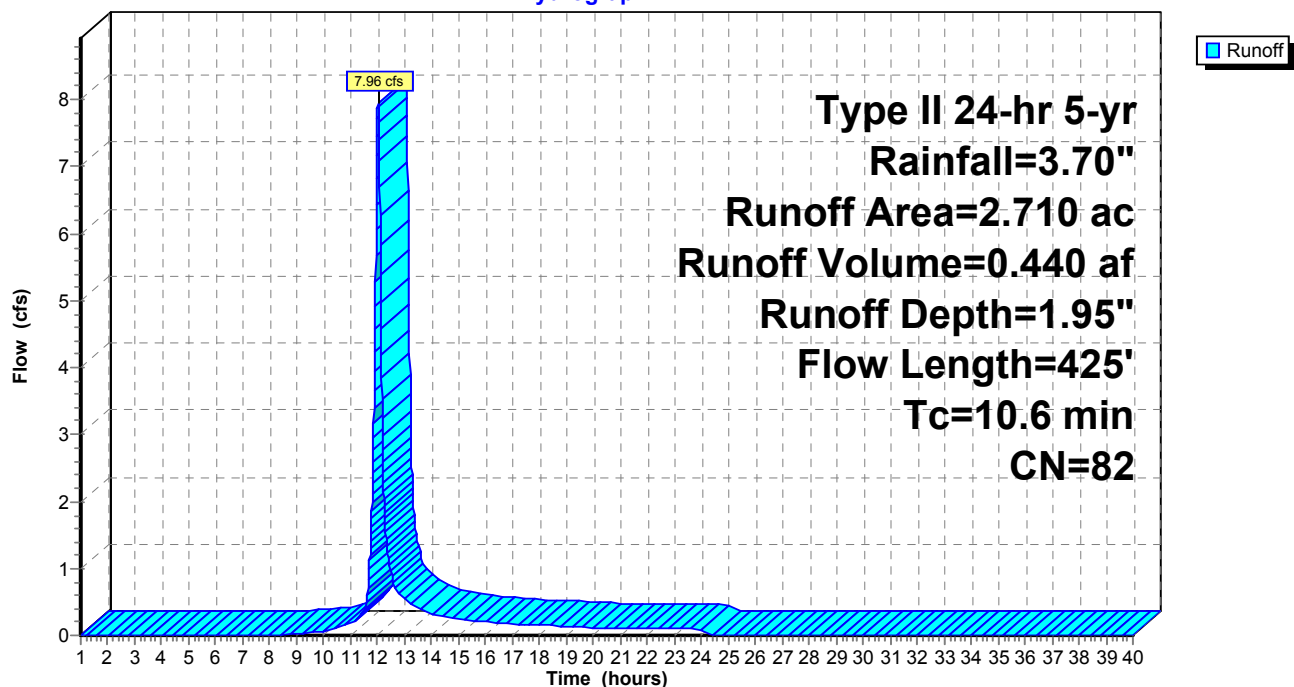
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
2.710	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	425	0.0200	0.7		Lag/CN Method,

Subcatchment W60: W60

Hydrograph



Subcatchment W61: W61

Runoff = 15.83 cfs @ 12.10 hrs, Volume= 1.104 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

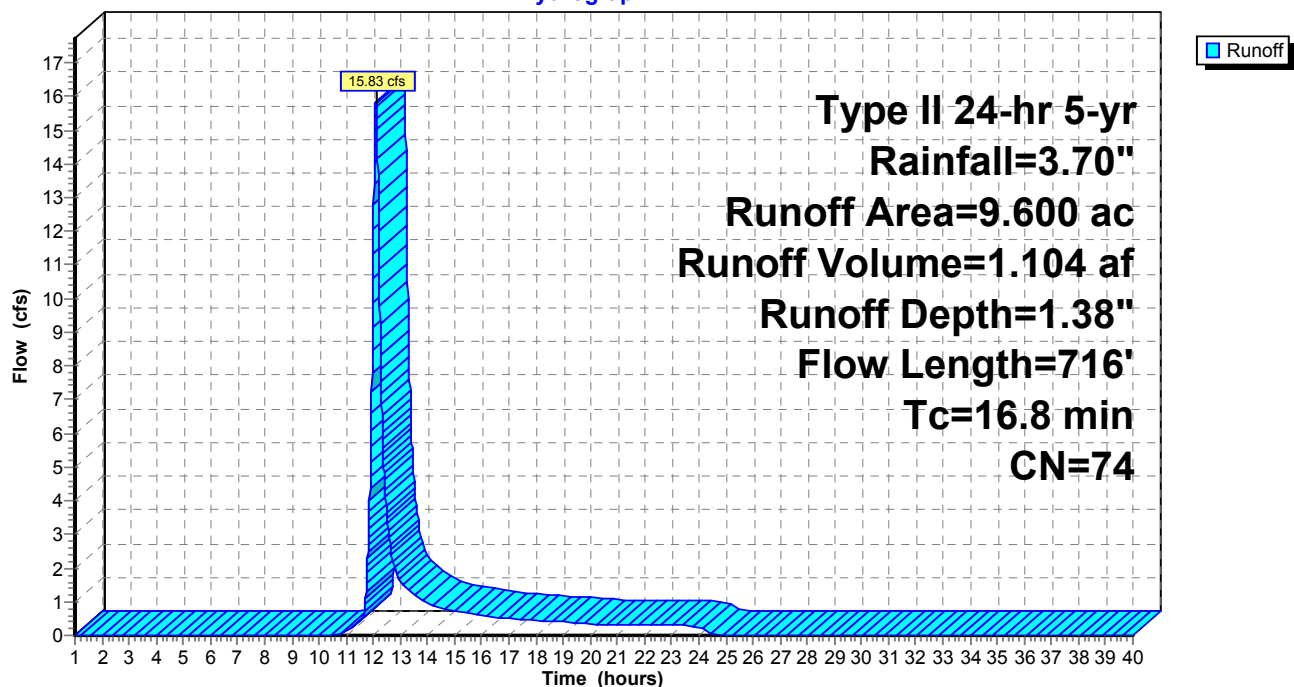
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.600	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	716	0.0300	0.7		Lag/CN Method,

Subcatchment W61: W61

Hydrograph



Subcatchment W62: W62

Runoff = 14.24 cfs @ 12.11 hrs, Volume= 1.042 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

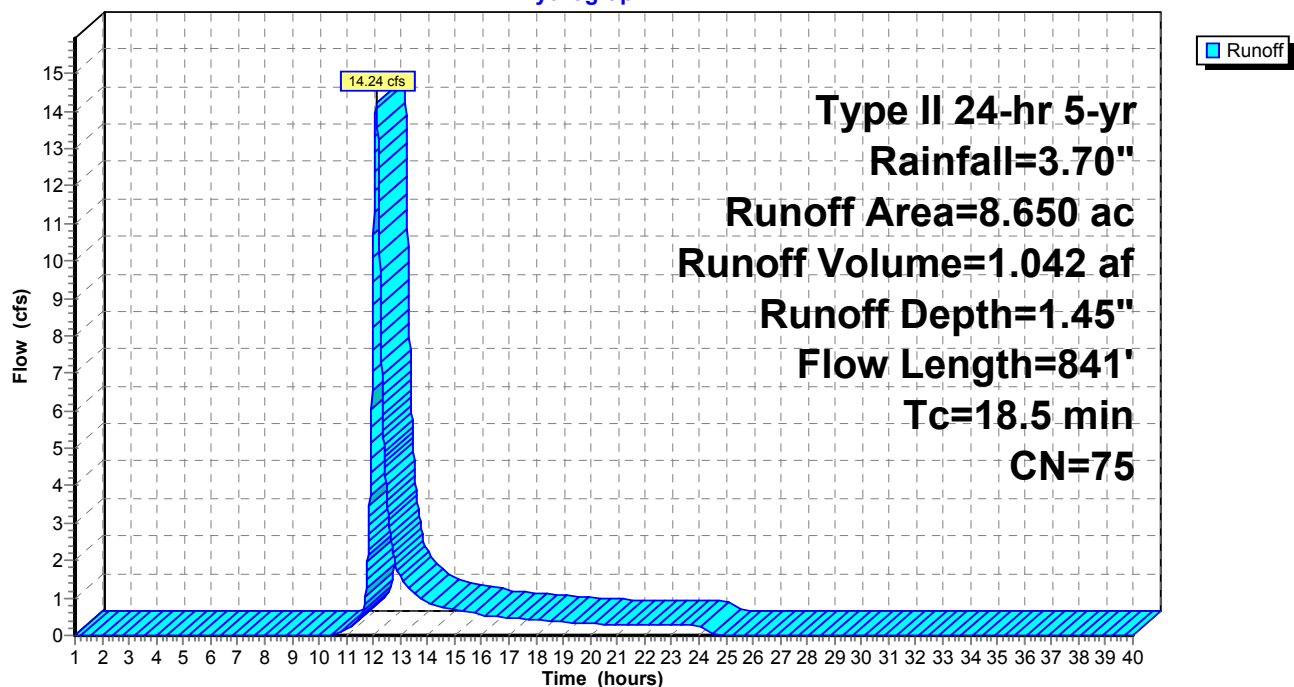
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.650	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.5	841	0.0300	0.8		Lag/CN Method,

Subcatchment W62: W62

Hydrograph



Subcatchment W63: W63

Runoff = 10.87 cfs @ 11.94 hrs, Volume= 0.453 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

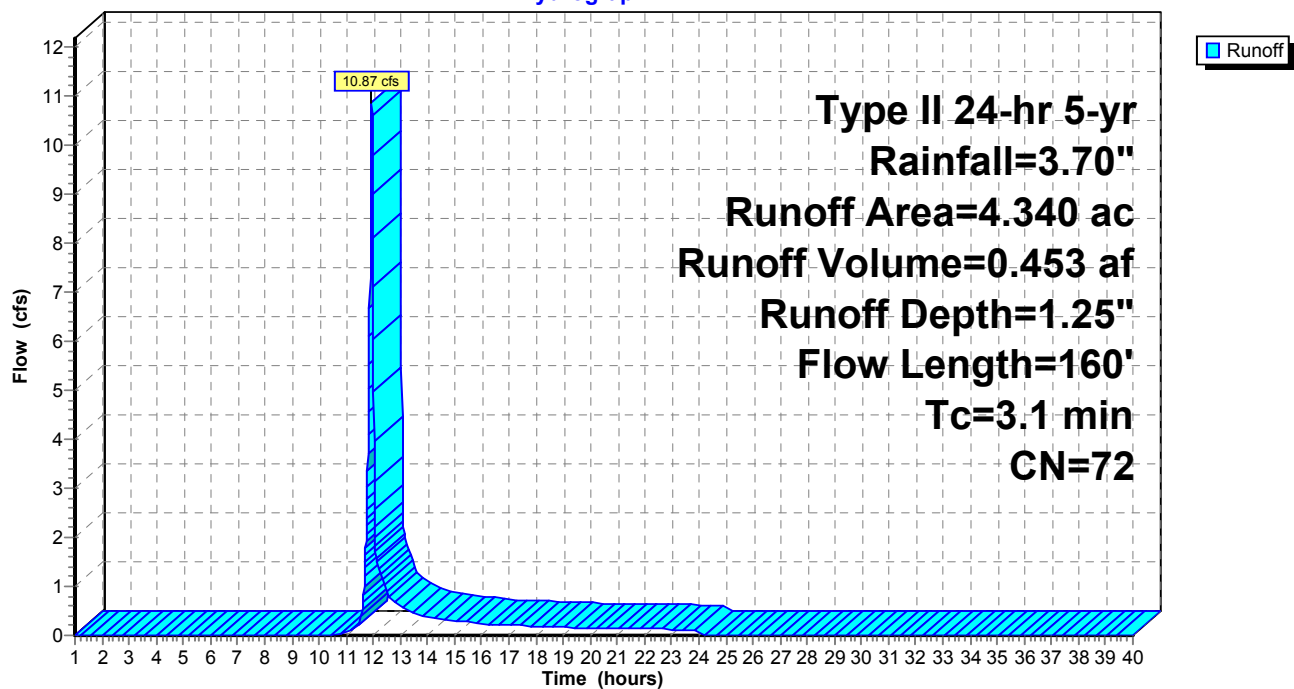
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.340	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	160	0.0900	0.9		Lag/CN Method,

Subcatchment W63: W63

Hydrograph



Subcatchment W64: W64

Runoff = 28.91 cfs @ 12.13 hrs, Volume= 2.217 af, Depth= 2.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

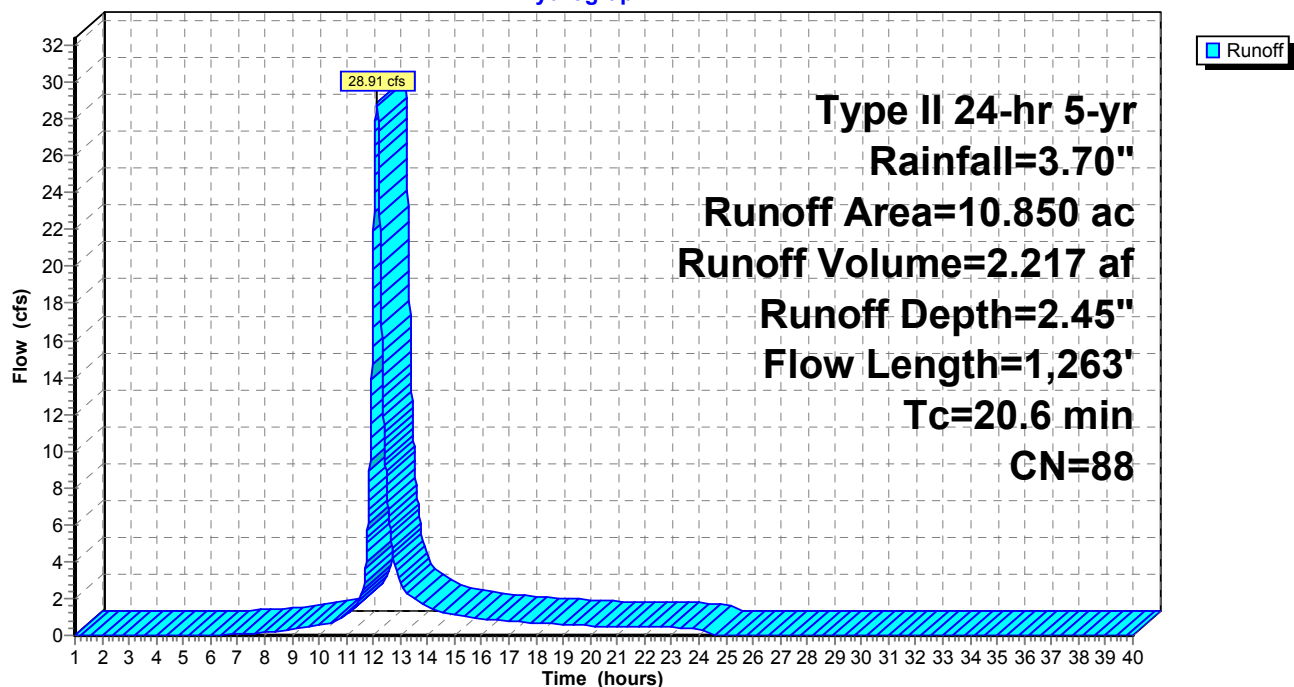
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
10.850	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,263	0.0200	1.0		Lag/CN Method,

Subcatchment W64: W64

Hydrograph



Subcatchment W65: W65

Runoff = 34.24 cfs @ 12.19 hrs, Volume= 2.966 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

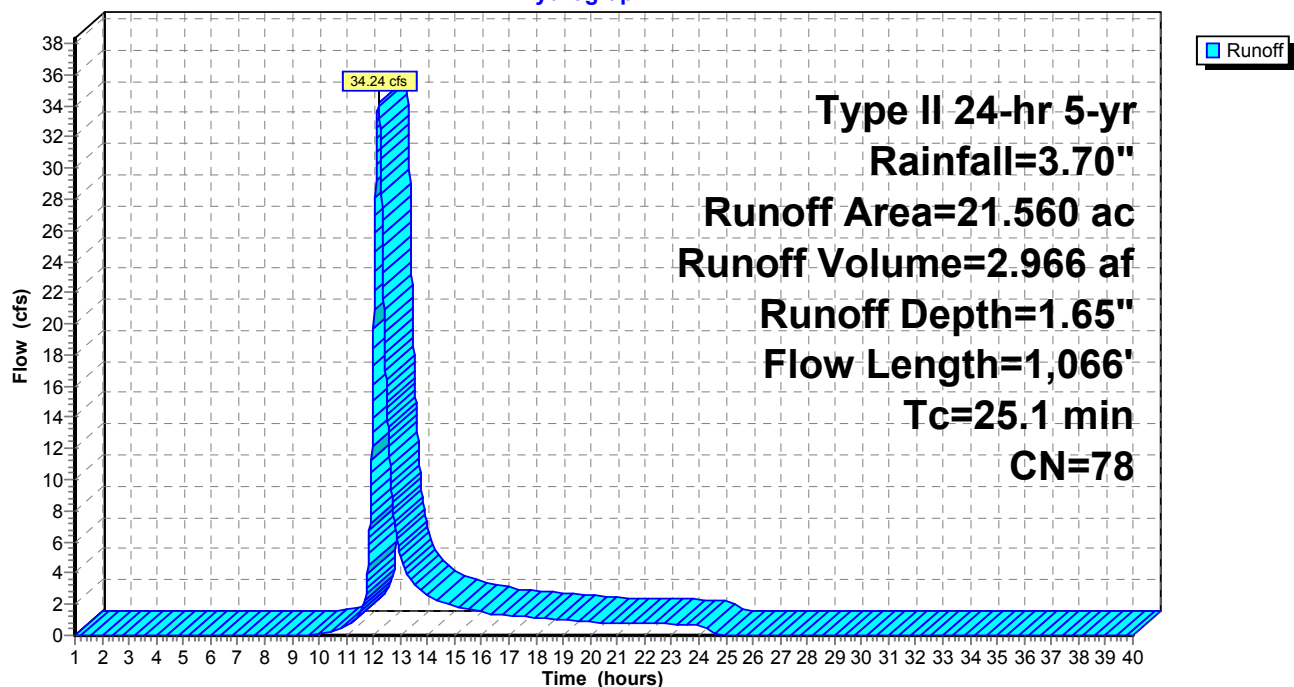
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
21.560	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,066	0.0200	0.7		Lag/CN Method,

Subcatchment W65: W65

Hydrograph



Subcatchment W66: W66

Runoff = 65.89 cfs @ 11.99 hrs, Volume= 3.156 af, Depth= 1.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

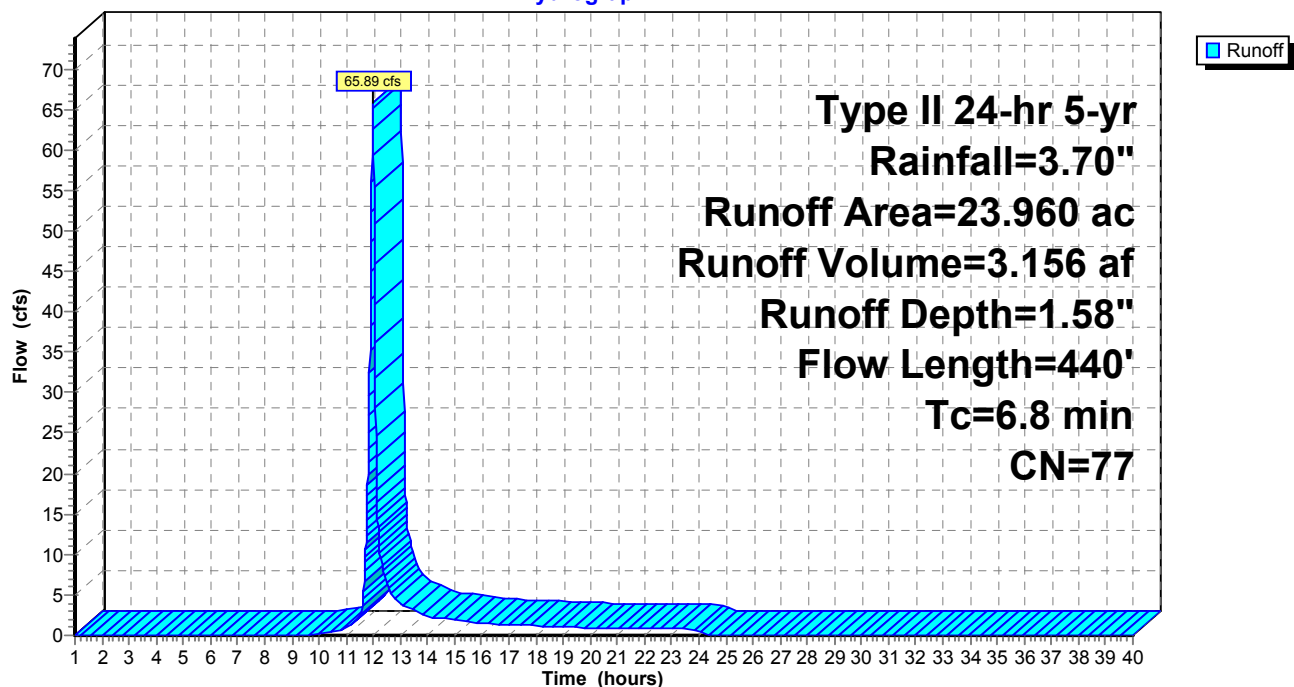
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
23.960	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	440	0.0700	1.1		Lag/CN Method,

Subcatchment W66: W66

Hydrograph



Subcatchment W67: W67

Runoff = 72.65 cfs @ 12.30 hrs, Volume= 7.662 af, Depth= 2.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

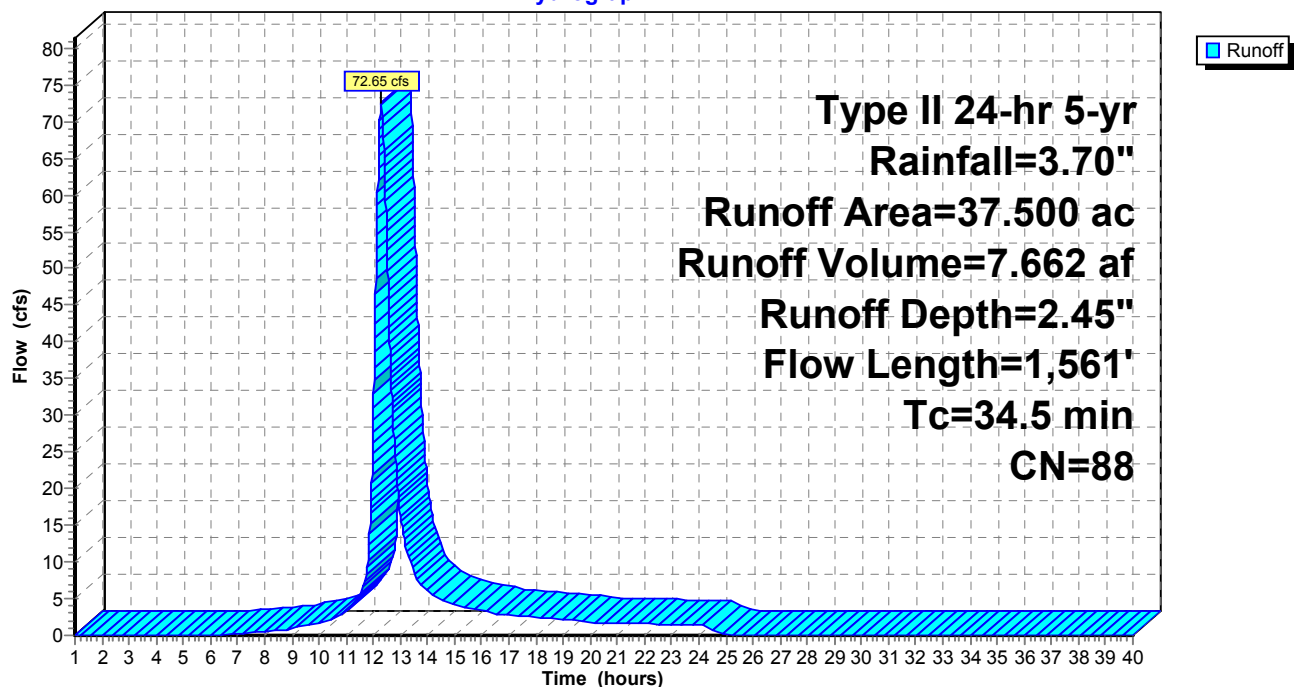
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
37.500	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.5	1,561	0.0100	0.8		Lag/CN Method,

Subcatchment W67: W67

Hydrograph



Subcatchment W68: W68

Runoff = 87.16 cfs @ 12.08 hrs, Volume= 6.015 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

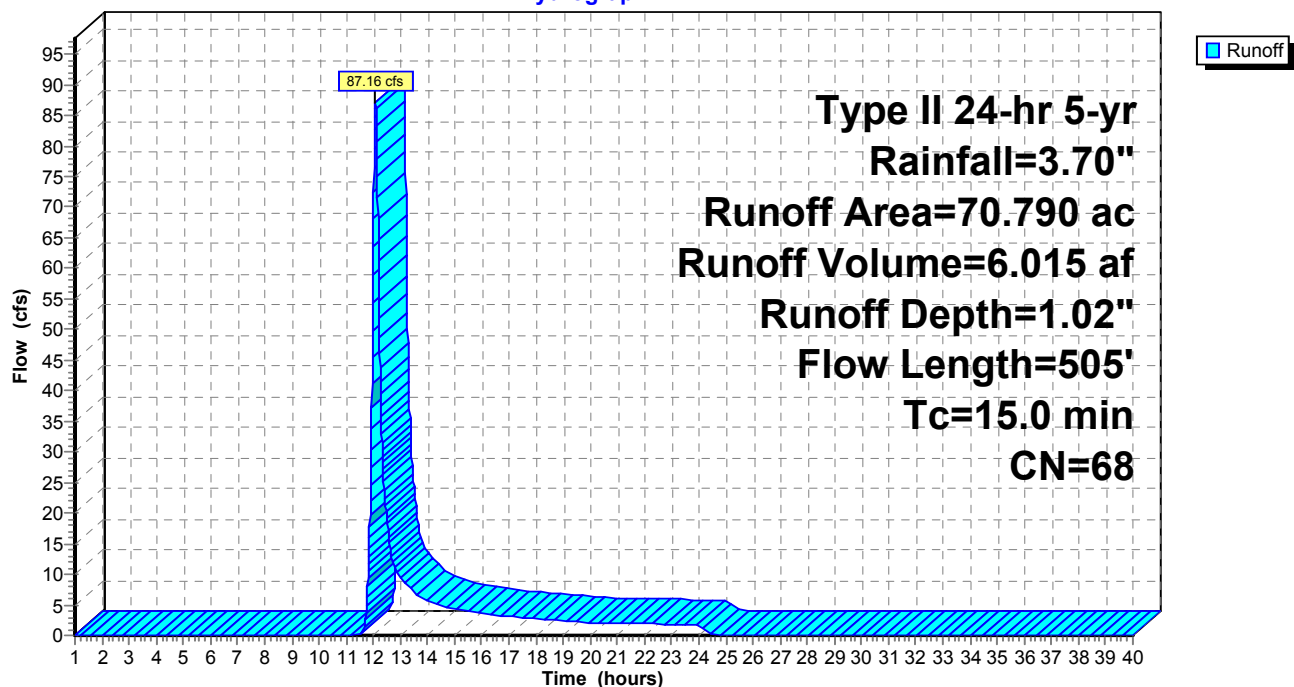
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
70.790	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	505	0.0300	0.6		Lag/CN Method,

Subcatchment W68: W68

Hydrograph



Subcatchment W69: W69

Runoff = 24.45 cfs @ 12.02 hrs, Volume= 1.322 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

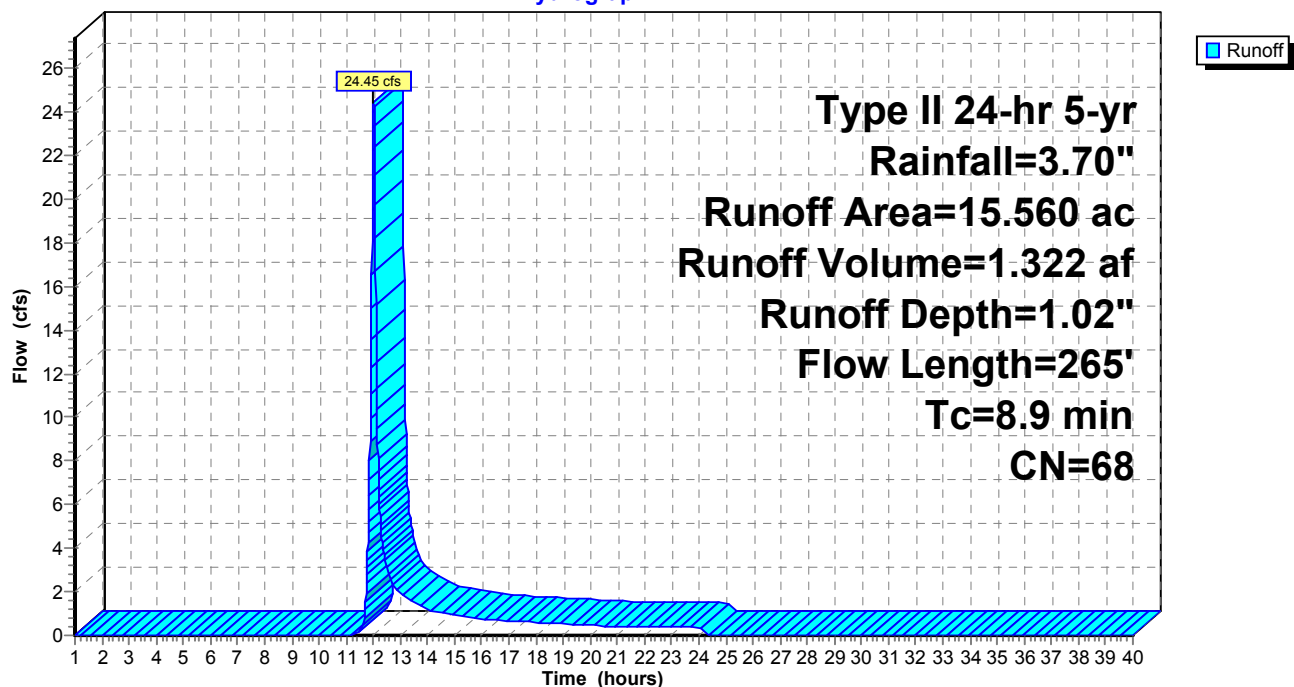
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
15.560	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	265	0.0300	0.5		Lag/CN Method,

Subcatchment W69: W69

Hydrograph



Subcatchment W70: W70

Runoff = 25.93 cfs @ 14.56 hrs, Volume= 10.647 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

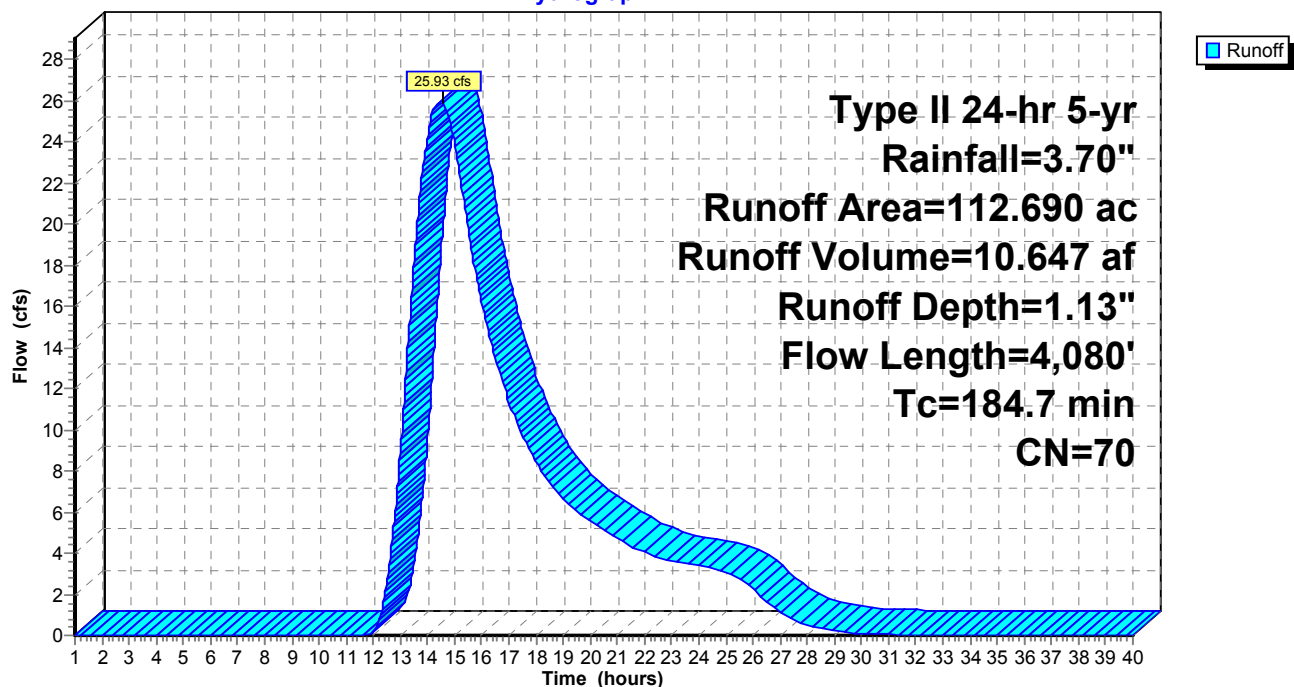
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
112.690	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
184.7	4,080	0.0050	0.4		Lag/CN Method,

Subcatchment W70: W70

Hydrograph



Subcatchment W71: W71

Runoff = 16.69 cfs @ 12.83 hrs, Volume= 3.289 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

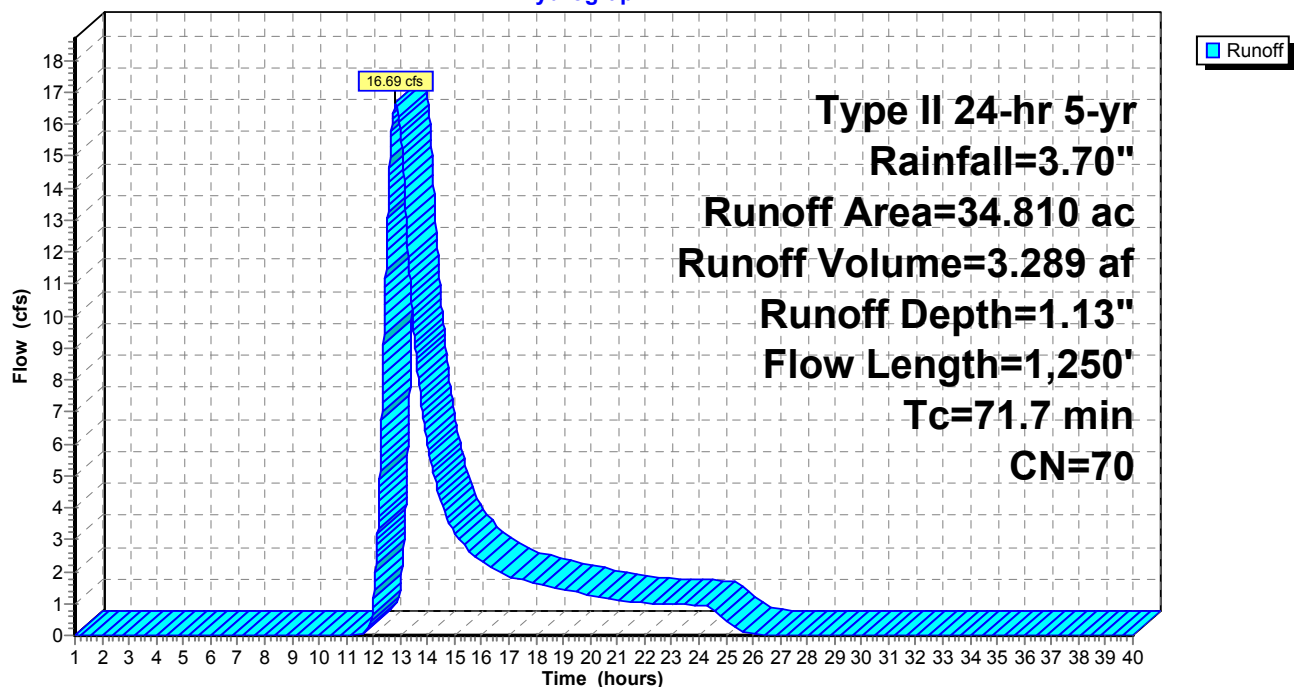
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
34.810	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.7	1,250	0.0050	0.3		Lag/CN Method,

Subcatchment W71: W71

Hydrograph



Subcatchment W72: W72

Runoff = 20.37 cfs @ 12.17 hrs, Volume= 1.726 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

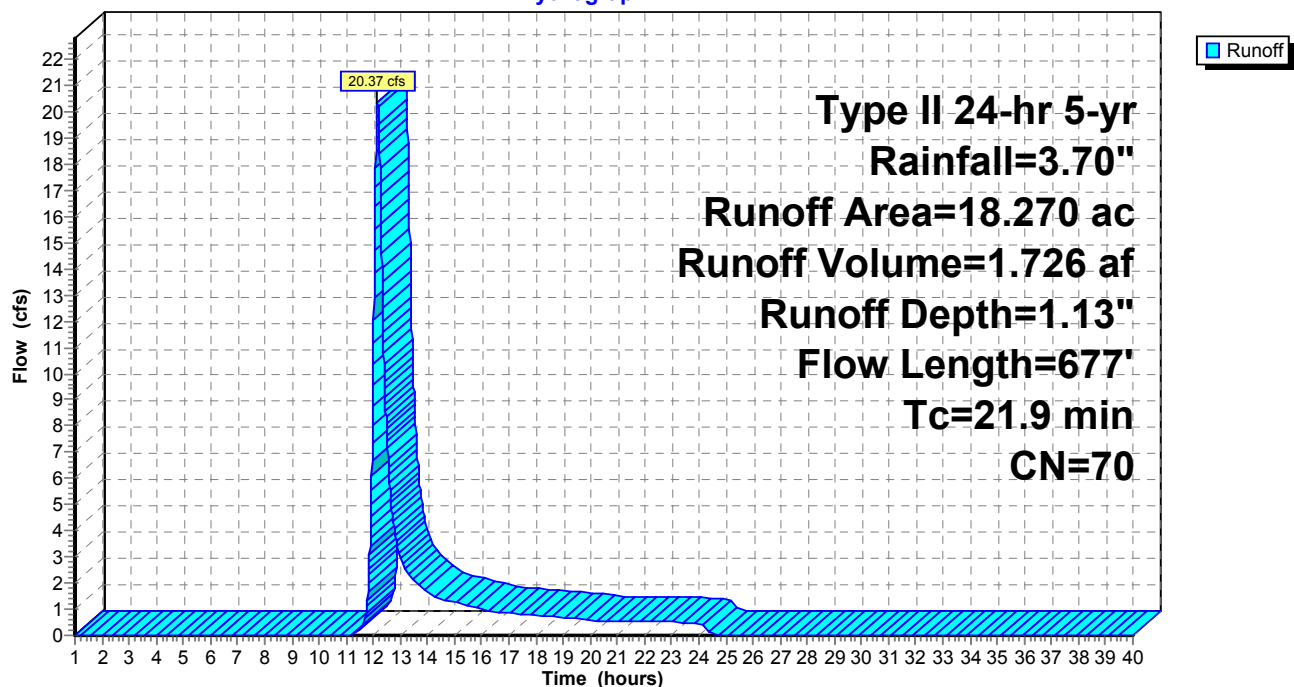
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.270	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	677	0.0200	0.5		Lag/CN Method,

Subcatchment W72: W72

Hydrograph



Subcatchment W73: W73

Runoff = 12.71 cfs @ 12.68 hrs, Volume= 2.339 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

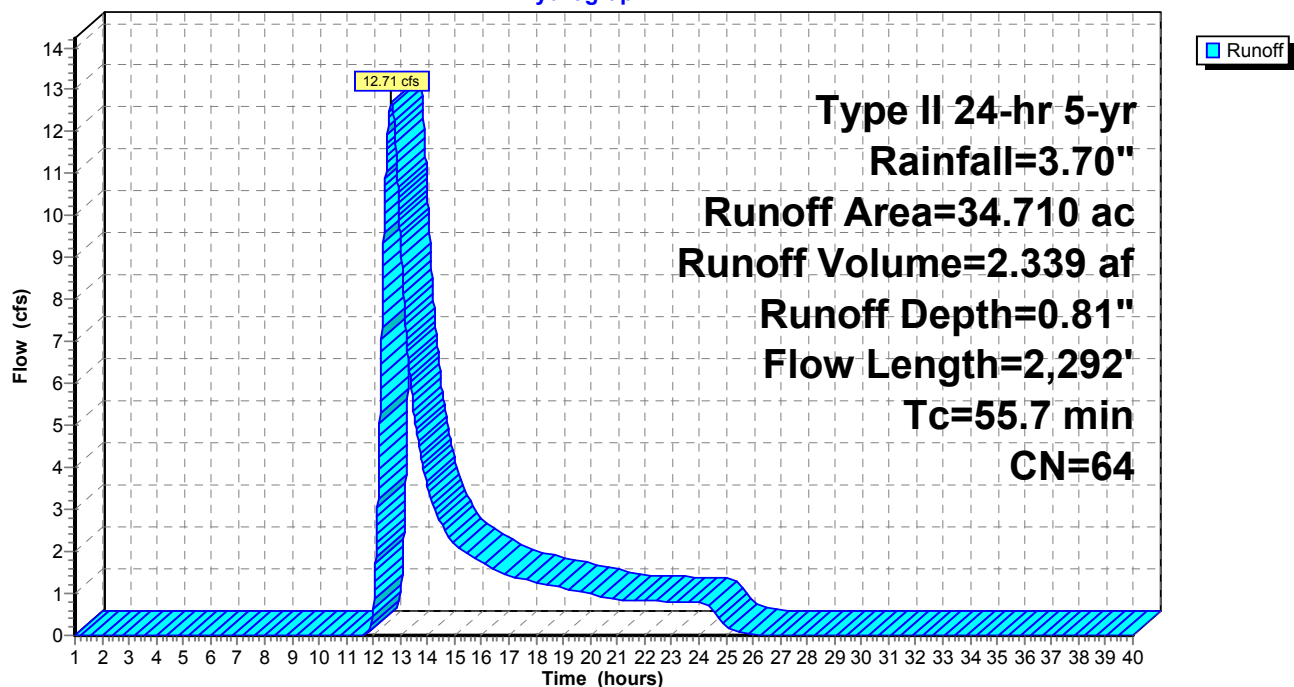
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
34.710	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.7	2,292	0.0300	0.7		Lag/CN Method,

Subcatchment W73: W73

Hydrograph



Subcatchment W74: W74

Runoff = 6.87 cfs @ 12.03 hrs, Volume= 0.389 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

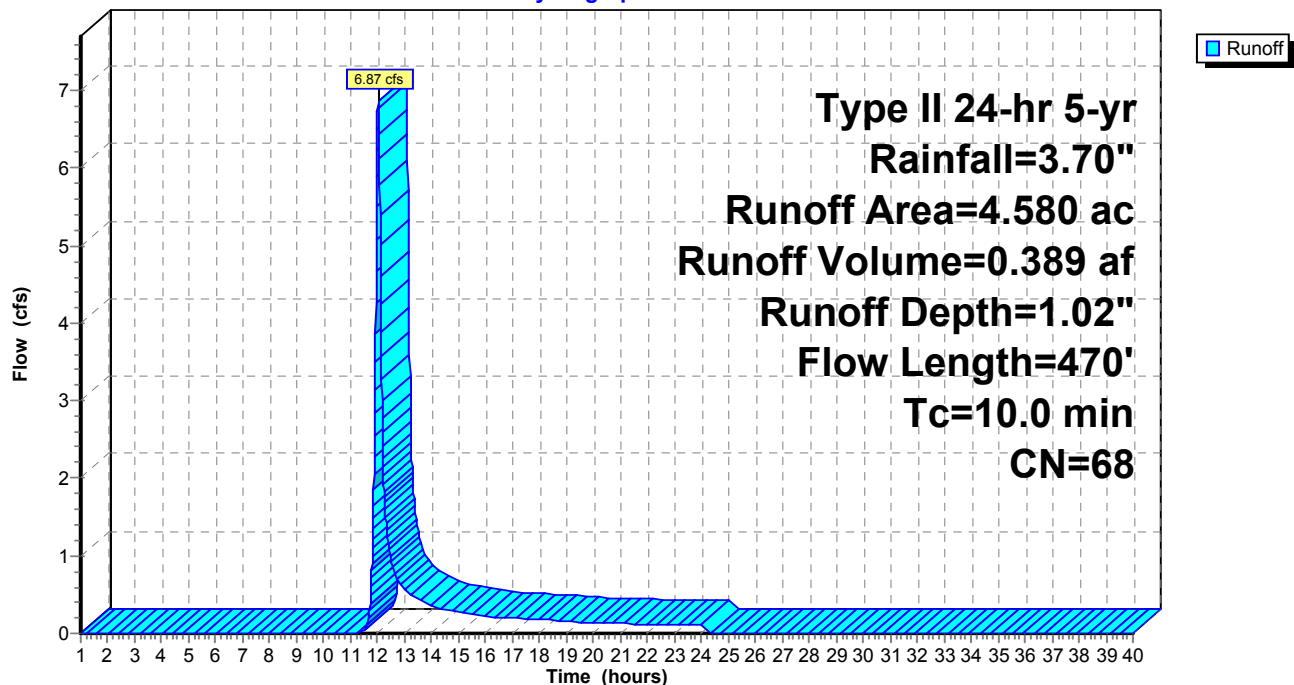
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
4.580	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	470	0.0600	0.8		Lag/CN Method,

Subcatchment W74: W74

Hydrograph



Subcatchment W75: W75

Runoff = 71.47 cfs @ 12.10 hrs, Volume= 4.923 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

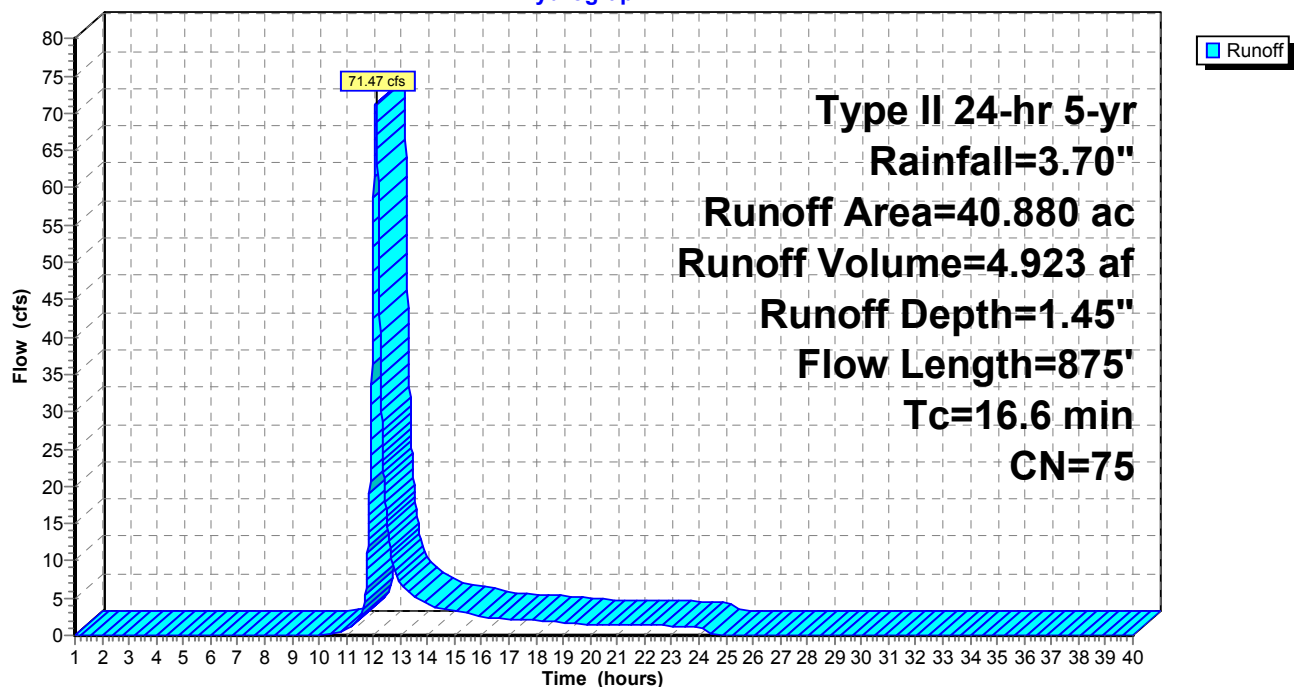
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
40.880	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	875	0.0400	0.9		Lag/CN Method,

Subcatchment W75: W75

Hydrograph



Subcatchment W76: W76

Runoff = 41.12 cfs @ 12.40 hrs, Volume= 5.129 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

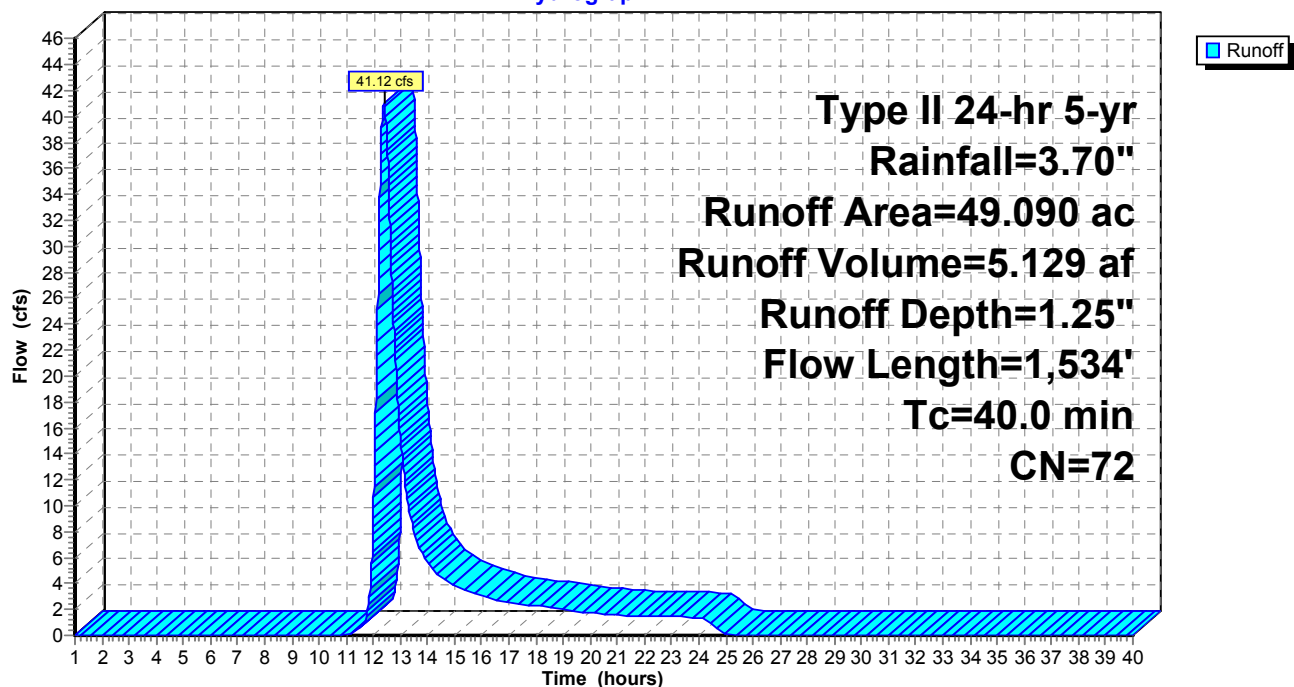
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
49.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.0	1,534	0.0200	0.6		Lag/CN Method,

Subcatchment W76: W76

Hydrograph



Subcatchment W77: W77

Runoff = 152.14 cfs @ 12.01 hrs, Volume= 8.042 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

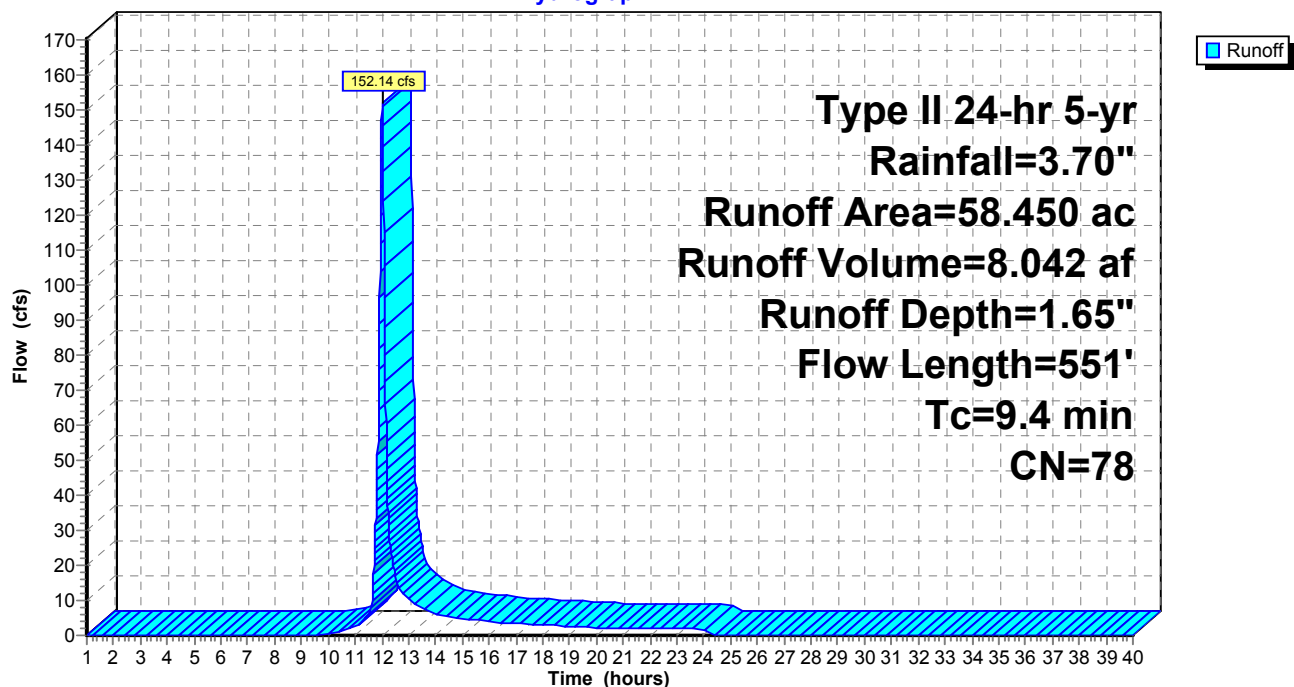
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
58.450	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	551	0.0500	1.0		Lag/CN Method,

Subcatchment W77: W77

Hydrograph



Subcatchment W79: W79

Runoff = 20.98 cfs @ 12.61 hrs, Volume= 3.469 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

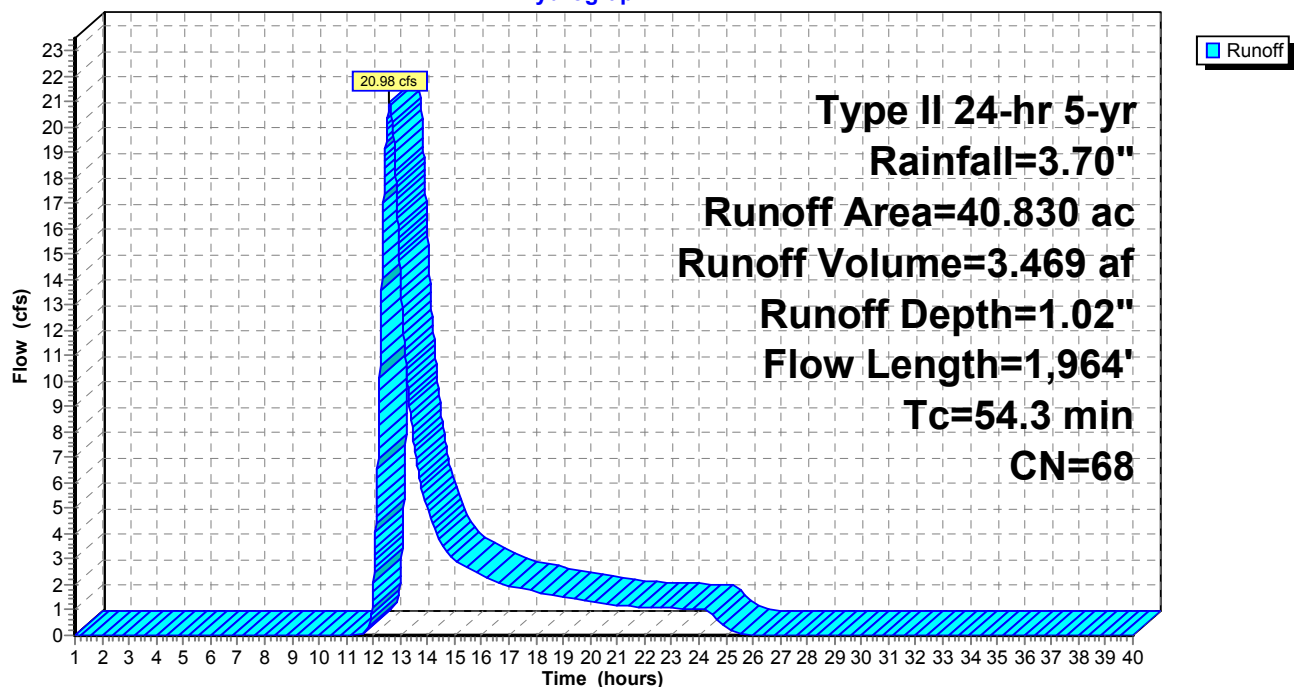
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
40.830	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.3	1,964	0.0200	0.6		Lag/CN Method,

Subcatchment W79: W79

Hydrograph



Subcatchment W80: W80

Runoff = 81.31 cfs @ 12.32 hrs, Volume= 8.831 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

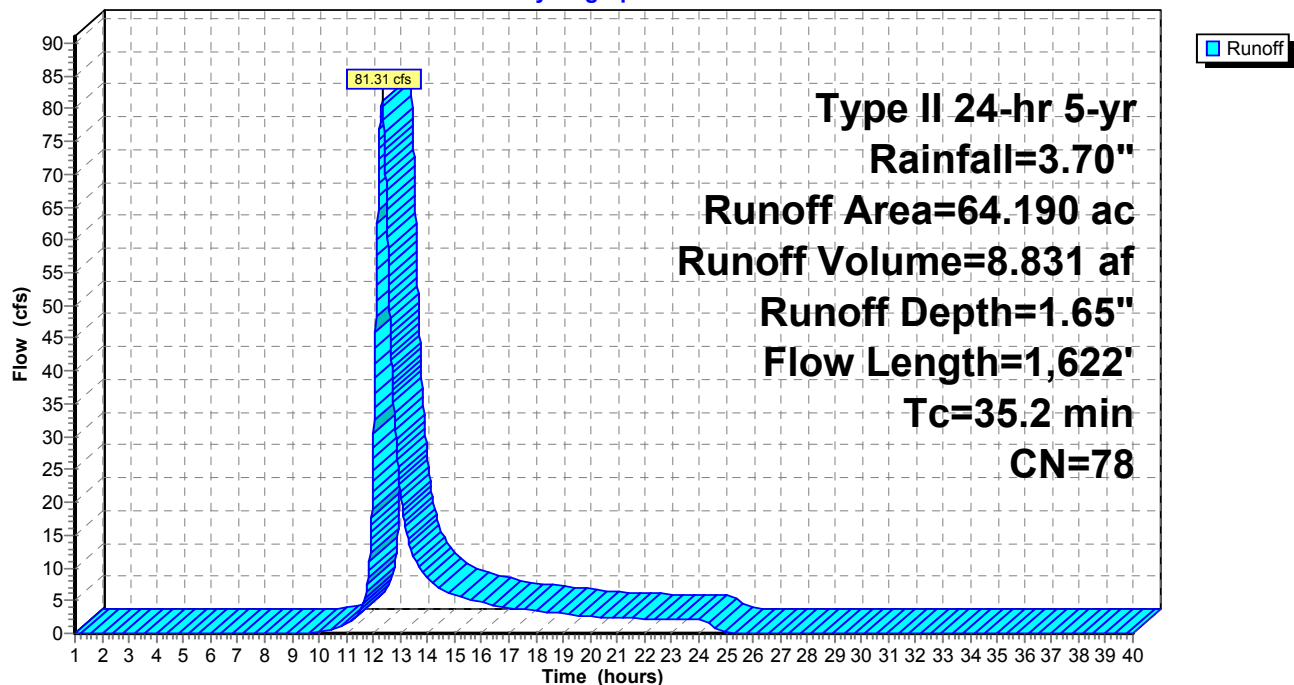
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
64.190	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.2	1,622	0.0200	0.8		Lag/CN Method,

Subcatchment W80: W80

Hydrograph



Subcatchment W81: W81

Runoff = 45.45 cfs @ 11.97 hrs, Volume= 2.212 af, Depth= 2.73"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

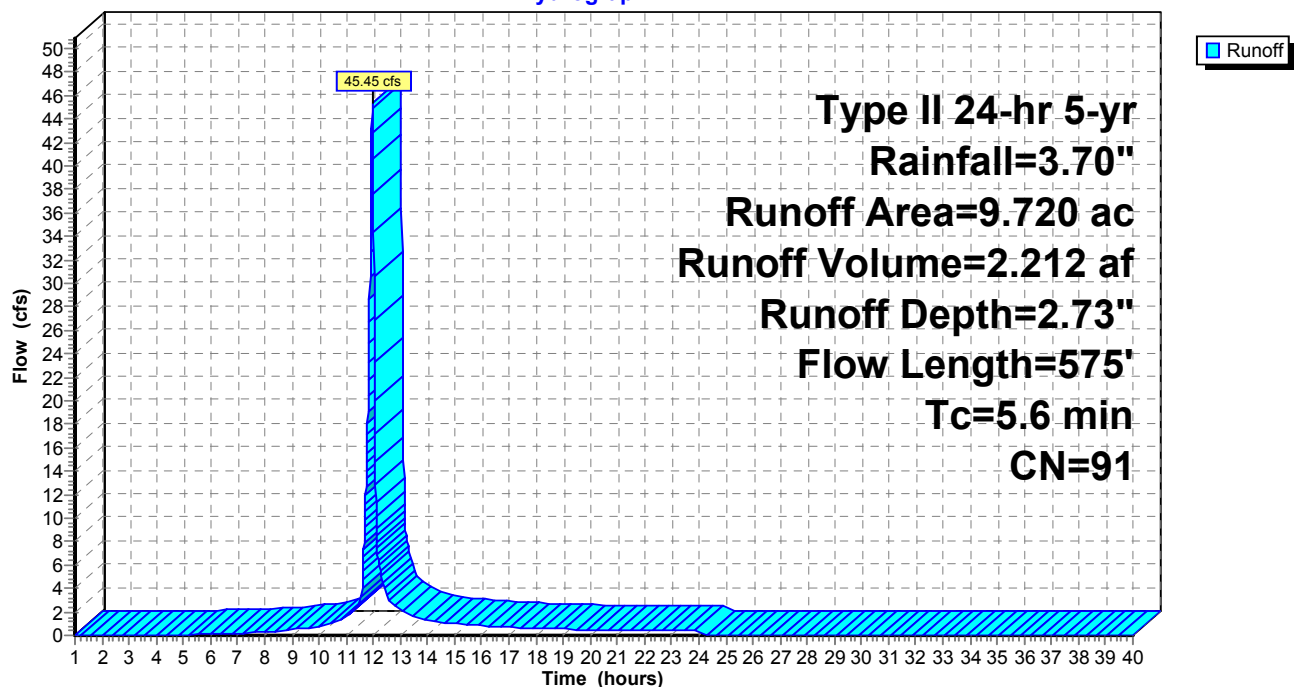
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.720	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	575	0.0600	1.7		Lag/CN Method,

Subcatchment W81: W81

Hydrograph



Subcatchment W82: W82

Runoff = 35.91 cfs @ 12.07 hrs, Volume= 2.245 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

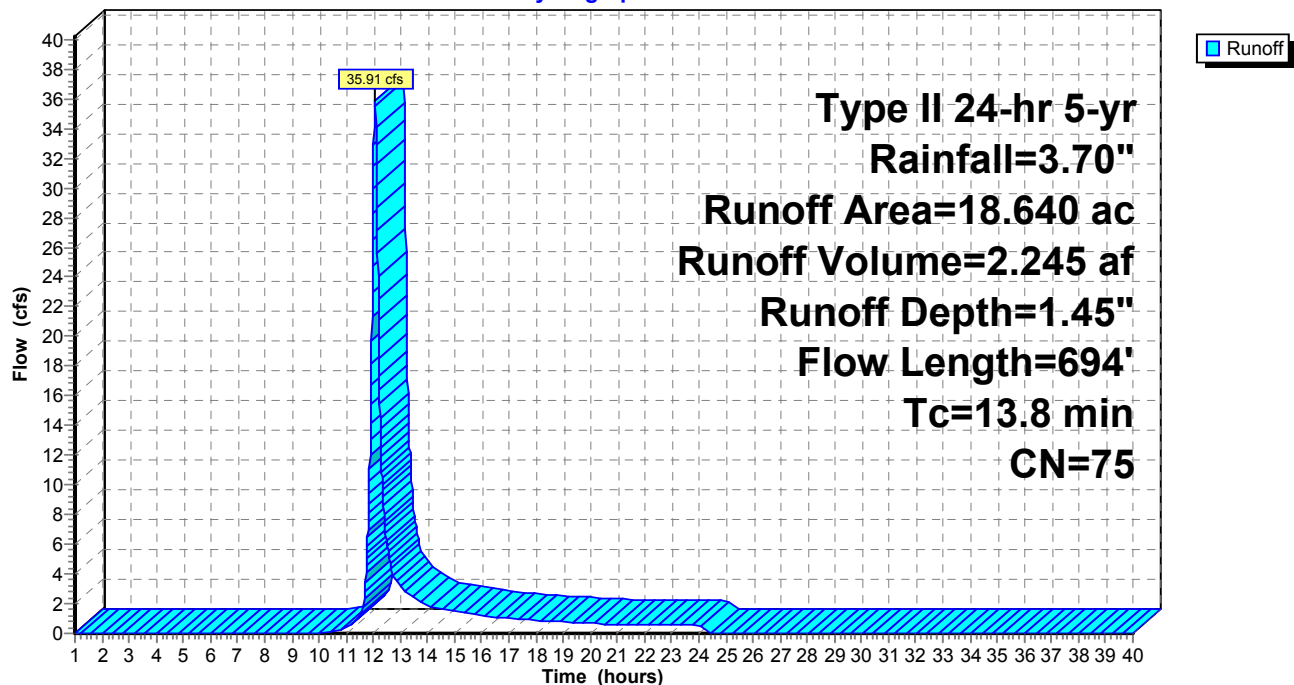
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.640	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	694	0.0400	0.8		Lag/CN Method,

Subcatchment W82: W82

Hydrograph



Subcatchment W83: W83

Runoff = 6.24 cfs @ 12.28 hrs, Volume= 0.744 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

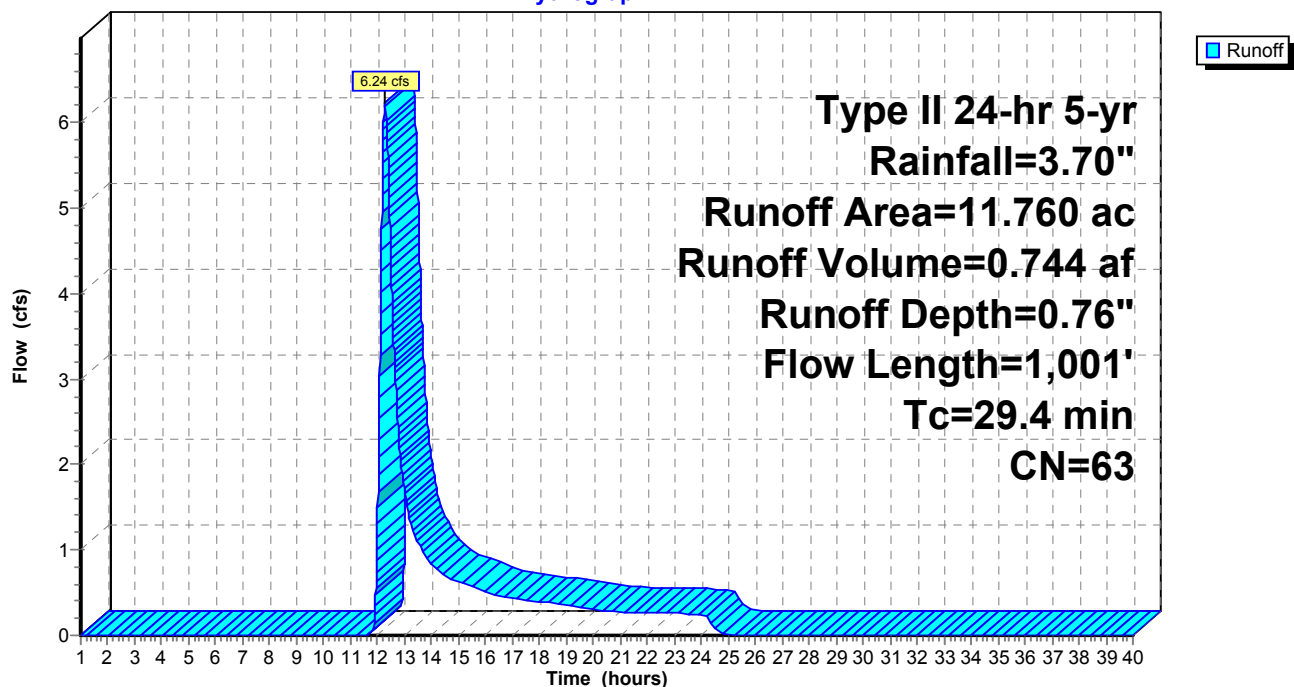
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
11.760	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,001	0.0300	0.6		Lag/CN Method,

Subcatchment W83: W83

Hydrograph



Subcatchment W84: W84

Runoff = 31.29 cfs @ 12.13 hrs, Volume= 2.350 af, Depth= 1.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

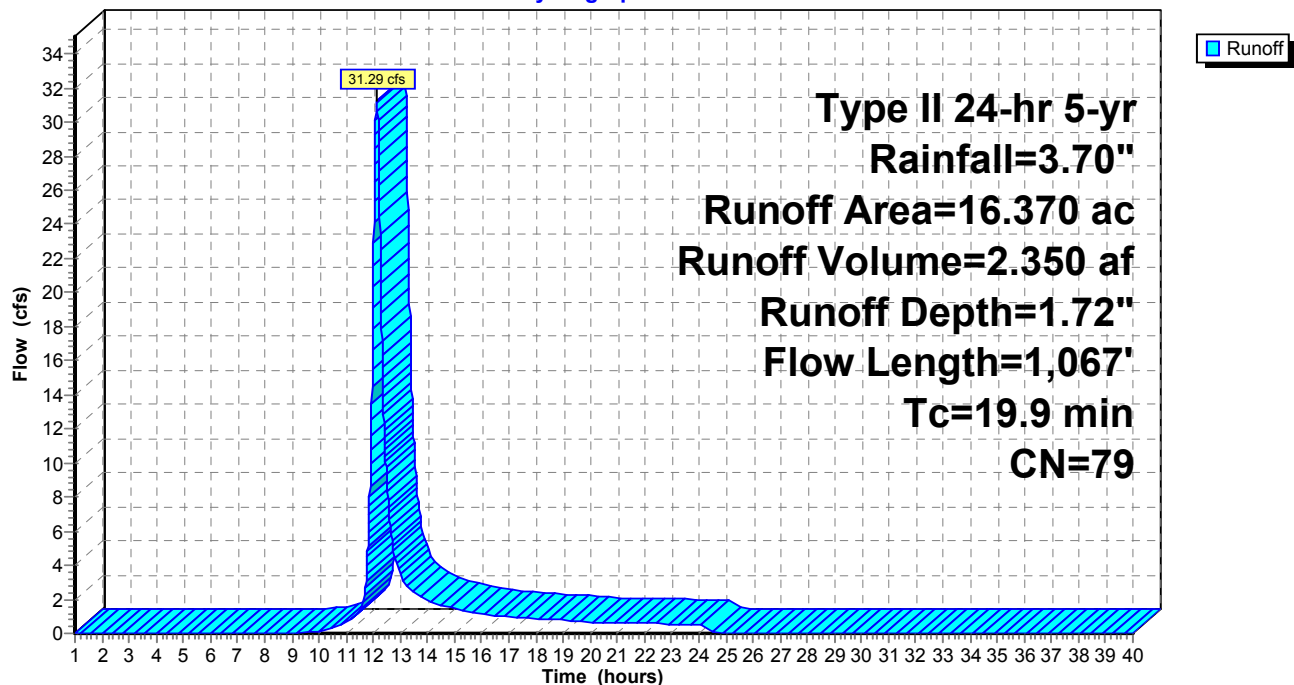
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
16.370	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,067	0.0300	0.9		Lag/CN Method,

Subcatchment W84: W84

Hydrograph



Subcatchment W85: W85

Runoff = 24.12 cfs @ 11.99 hrs, Volume= 1.281 af, Depth= 2.73"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

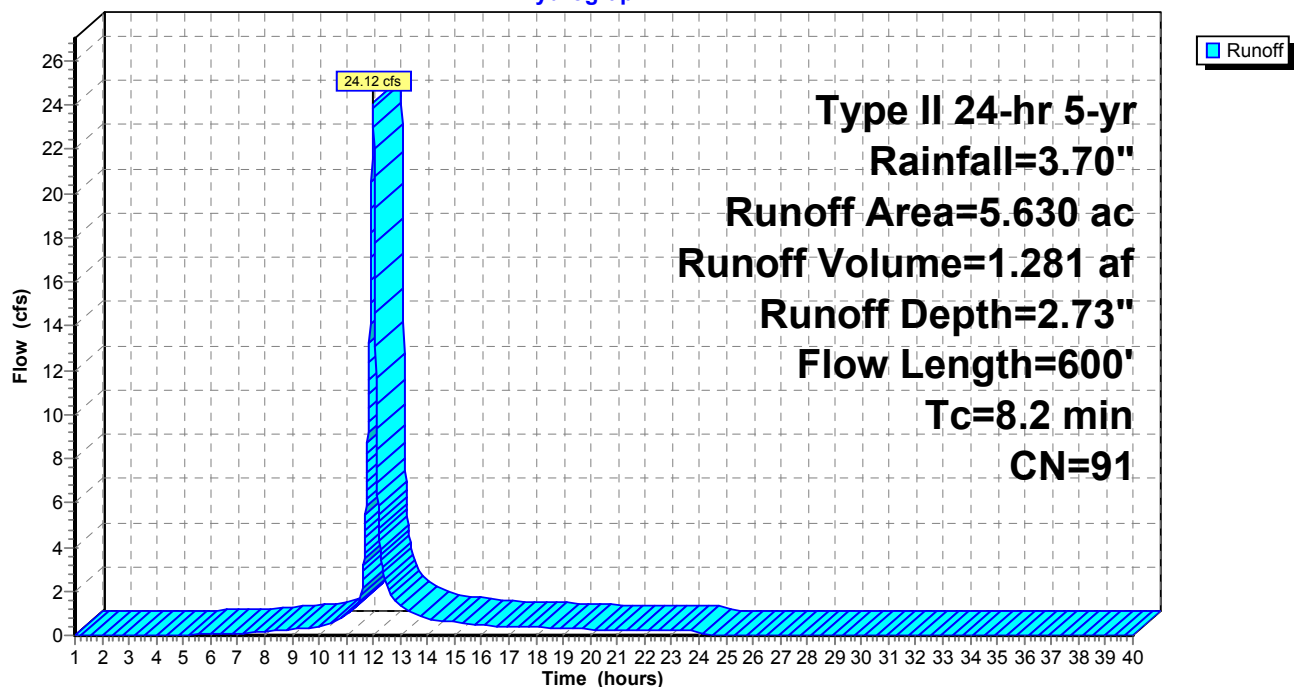
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
5.630	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	600	0.0300	1.2		Lag/CN Method,

Subcatchment W85: W85

Hydrograph



Subcatchment W86: W86

Runoff = 0.57 cfs @ 12.52 hrs, Volume= 0.255 af, Depth= 0.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

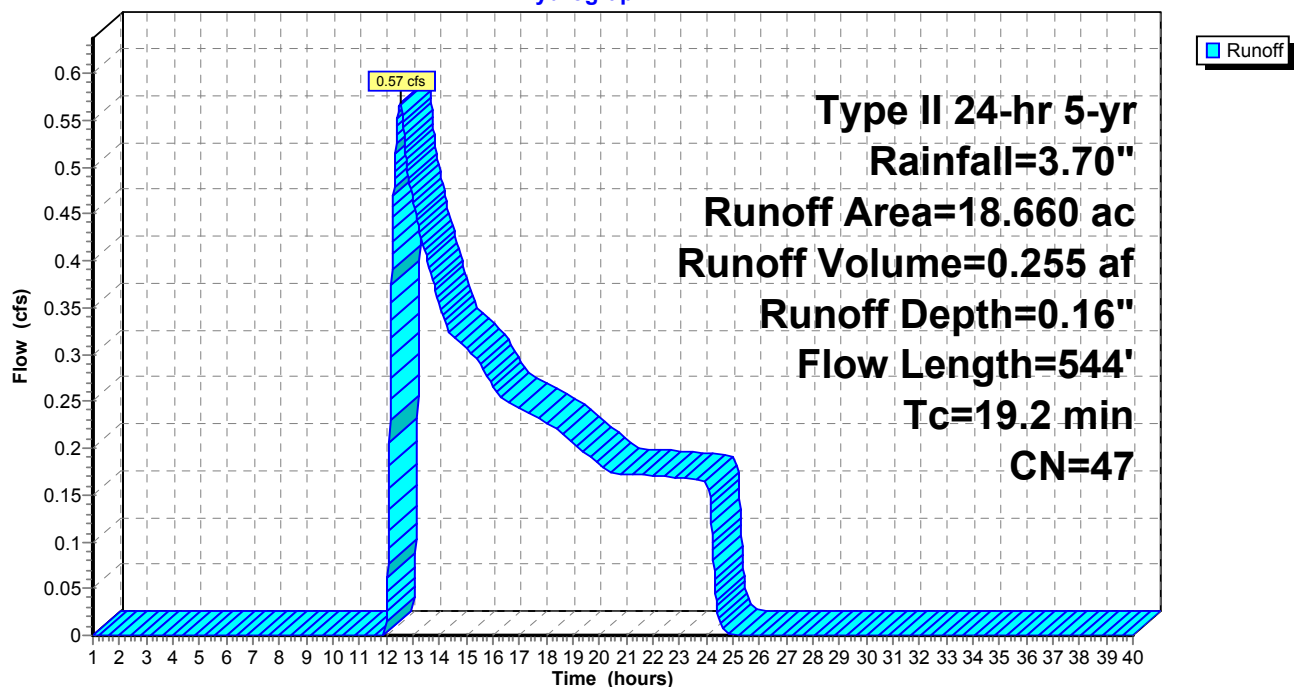
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
18.660	47	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	544	0.0600	0.5		Lag/CN Method,

Subcatchment W86: W86

Hydrograph



Subcatchment W87: W87

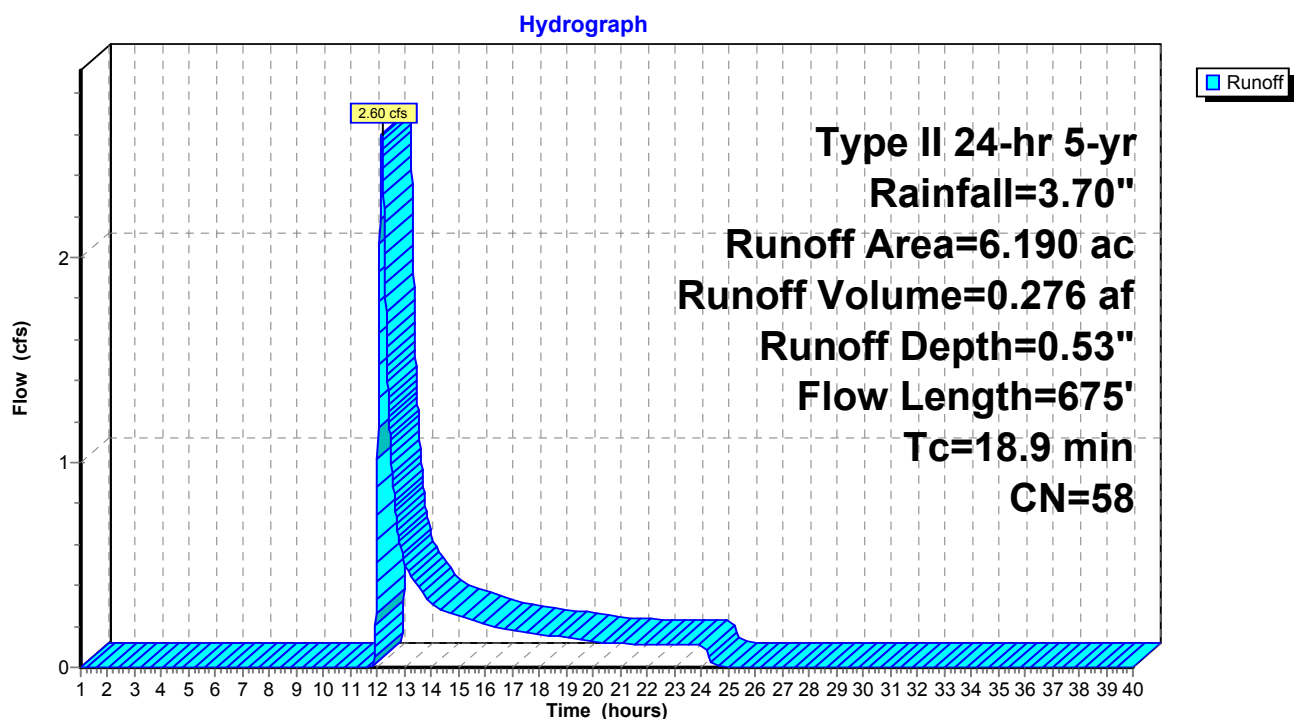
Runoff = 2.60 cfs @ 12.16 hrs, Volume= 0.276 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
6.190	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.9	675	0.0500	0.6		Lag/CN Method,

Subcatchment W87: W87

Subcatchment W88: W88

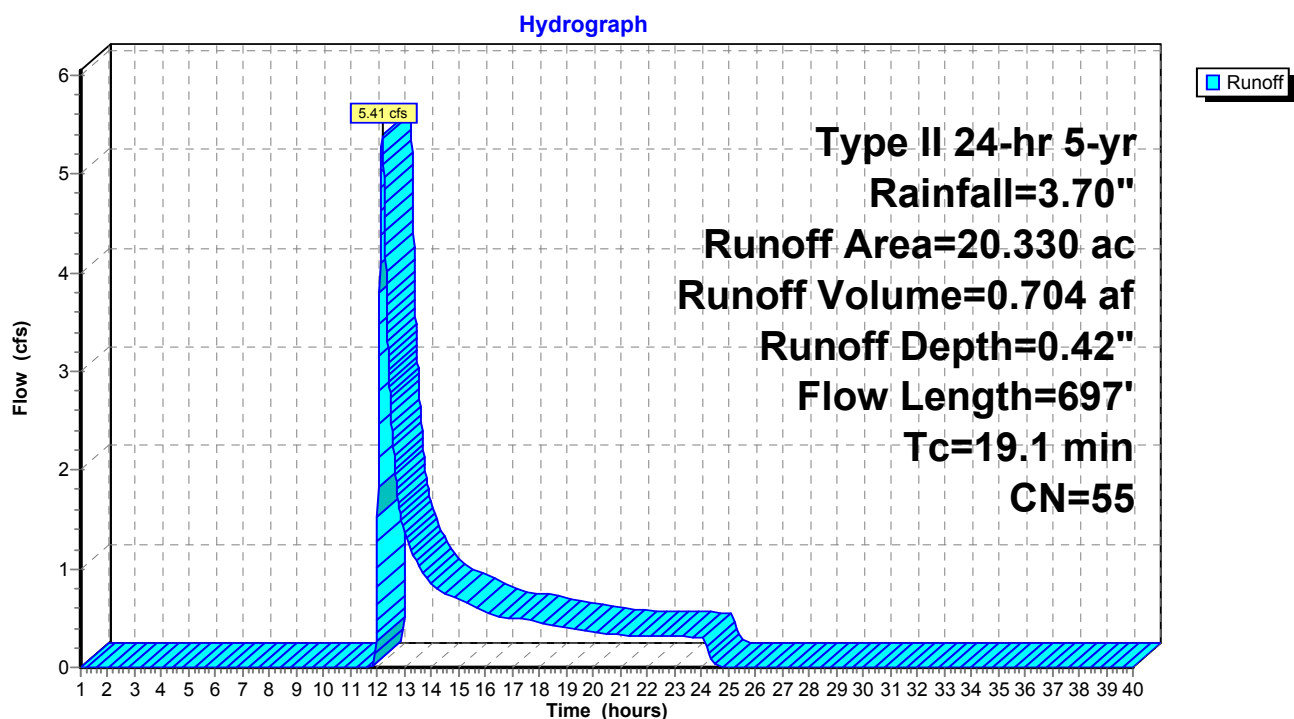
Runoff = 5.41 cfs @ 12.18 hrs, Volume= 0.704 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
20.330	55	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	697	0.0600	0.6		Lag/CN Method,

Subcatchment W88: W88

Subcatchment W89: W89

Runoff = 45.01 cfs @ 12.51 hrs, Volume= 6.542 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

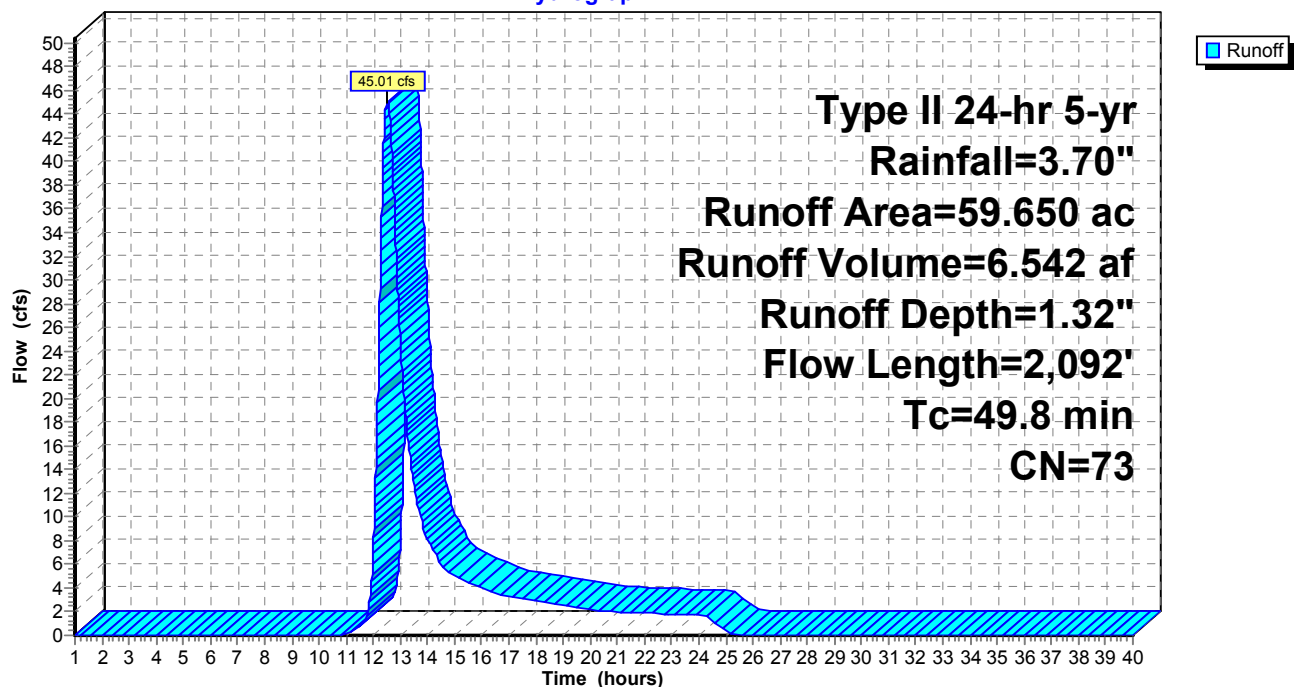
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
59.650	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	2,092	0.0200	0.7		Lag/CN Method,

Subcatchment W89: W89

Hydrograph



Subcatchment W90: W90

Runoff = 31.87 cfs @ 13.28 hrs, Volume= 8.301 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

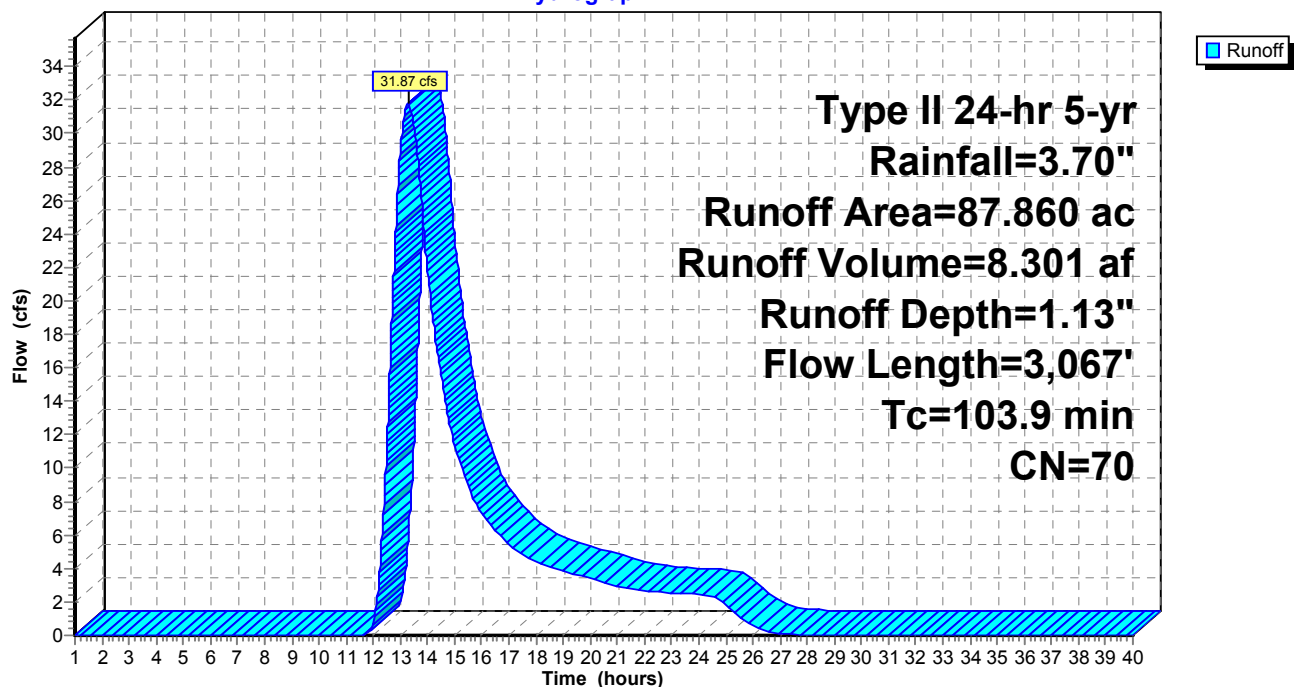
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
87.860	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
103.9	3,067	0.0100	0.5		Lag/CN Method,

Subcatchment W90: W90

Hydrograph



Subcatchment W91: W91

Runoff = 24.53 cfs @ 12.50 hrs, Volume= 3.337 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

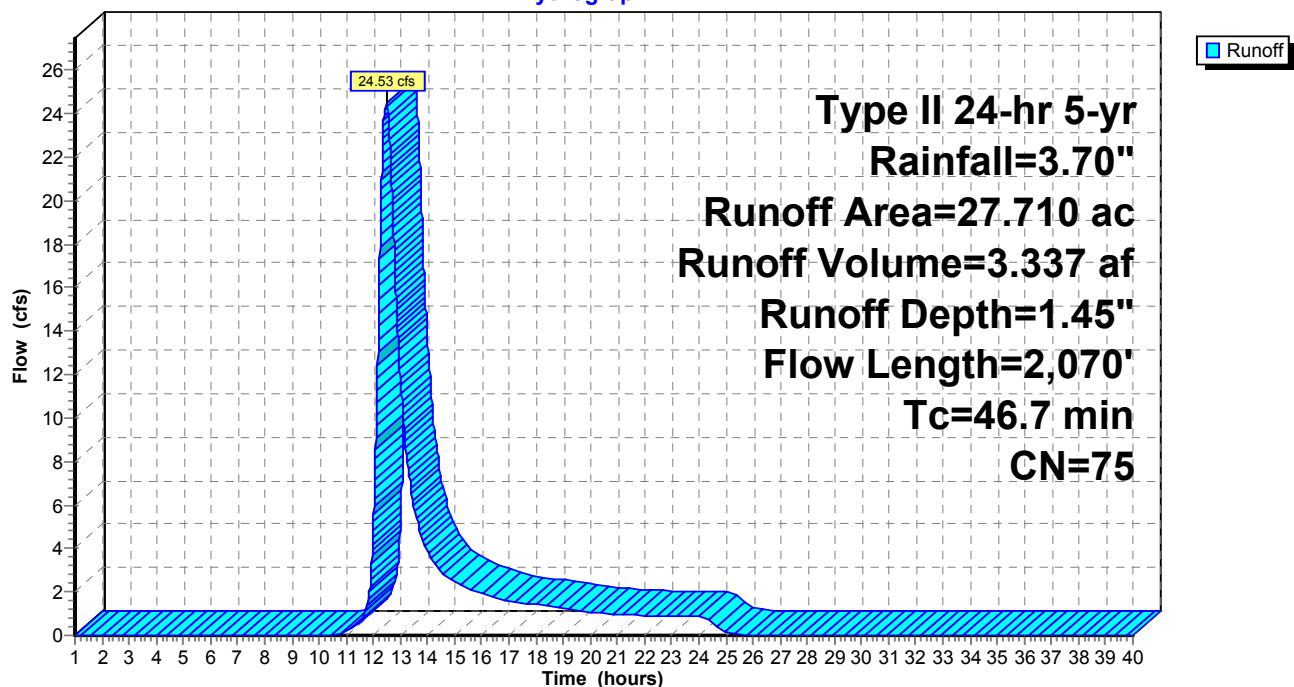
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
27.710	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	2,070	0.0200	0.7		Lag/CN Method,

Subcatchment W91: W91

Hydrograph



Subcatchment W92: W92

Runoff = 25.45 cfs @ 12.25 hrs, Volume= 2.553 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

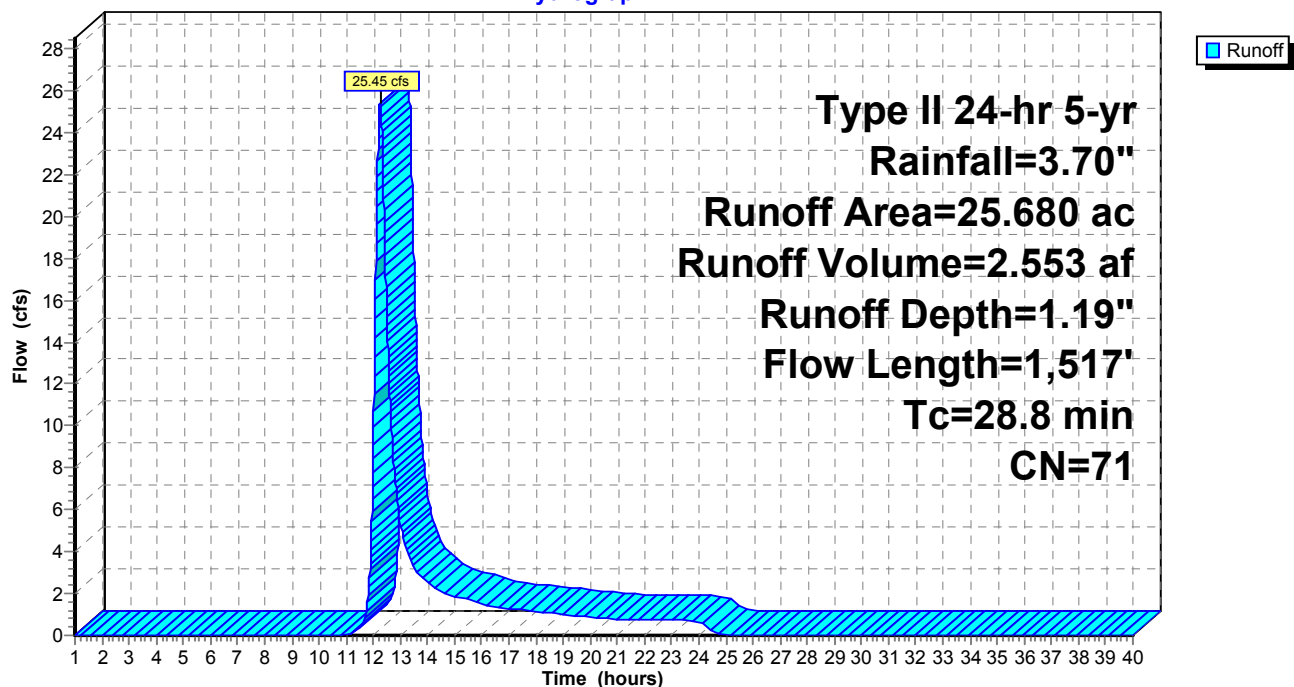
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
25.680	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	1,517	0.0400	0.9		Lag/CN Method,

Subcatchment W92: W92

Hydrograph



Subcatchment W93: W93

Runoff = 4.22 cfs @ 11.97 hrs, Volume= 0.200 af, Depth= 0.71"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

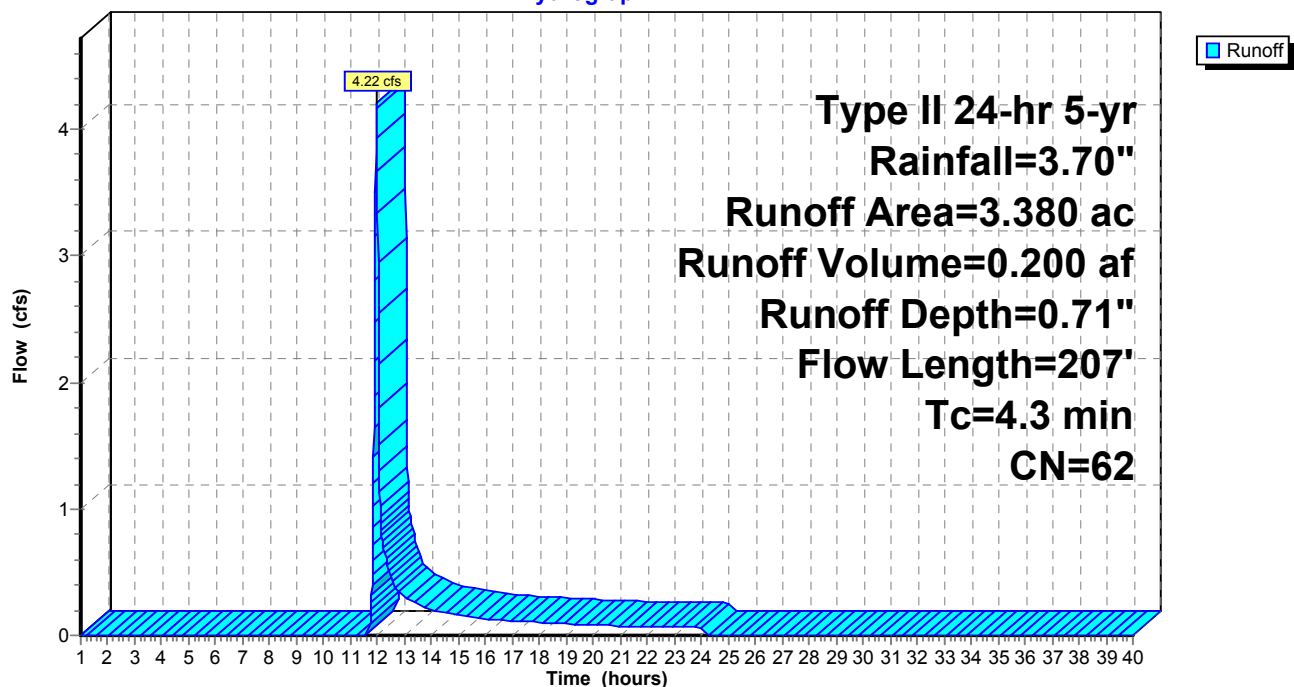
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
3.380	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	207	0.1200	0.8		Lag/CN Method,

Subcatchment W93: W93

Hydrograph



Subcatchment W94: W94

Runoff = 11.06 cfs @ 12.59 hrs, Volume= 1.926 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

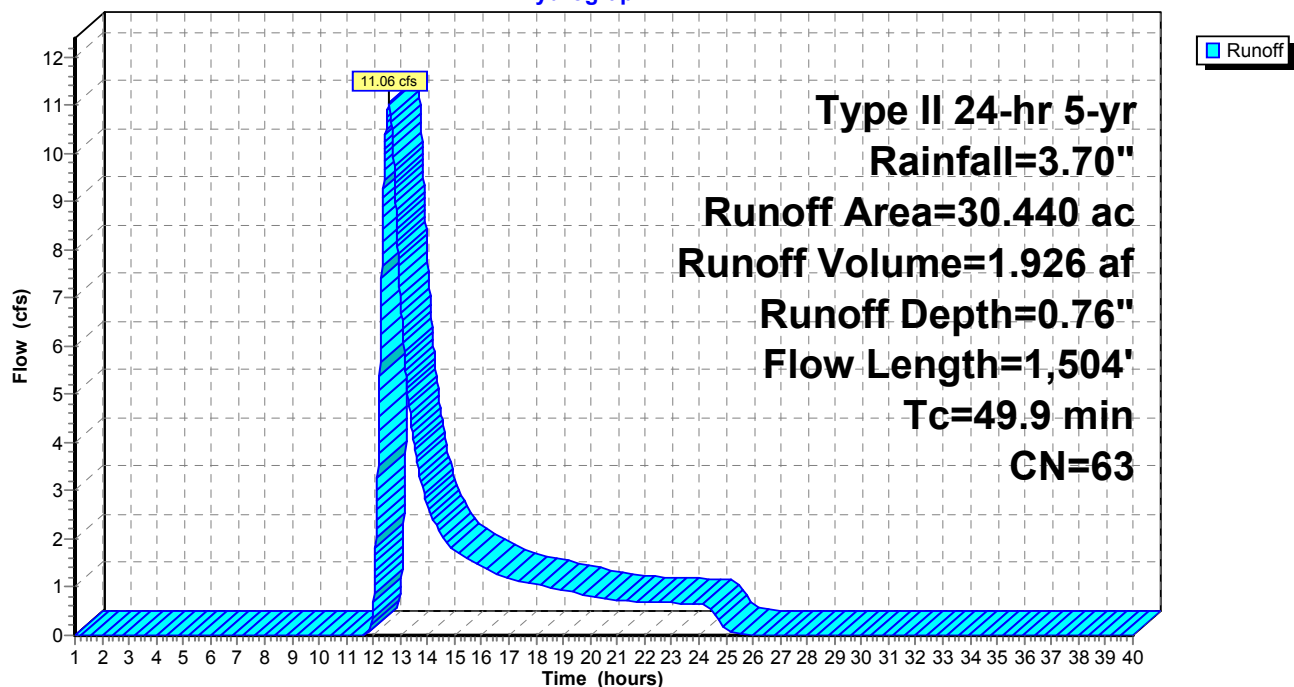
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
30.440	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.9	1,504	0.0200	0.5		Lag/CN Method,

Subcatchment W94: W94

Hydrograph



Subcatchment W95: W95

Runoff = 0.13 cfs @ 12.98 hrs, Volume= 0.087 af, Depth= 0.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

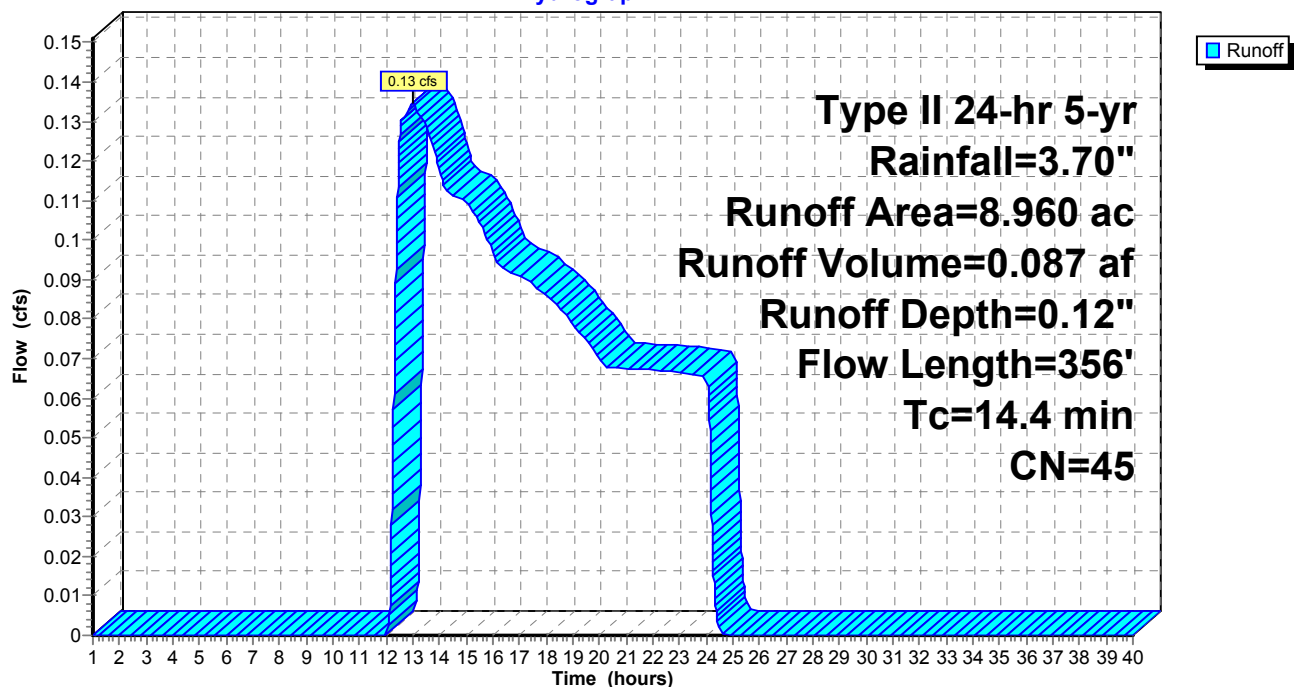
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
8.960	45	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.4	356	0.0600	0.4		Lag/CN Method,

Subcatchment W95: W95

Hydrograph



Subcatchment W96: W96

Runoff = 21.90 cfs @ 12.17 hrs, Volume= 1.810 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

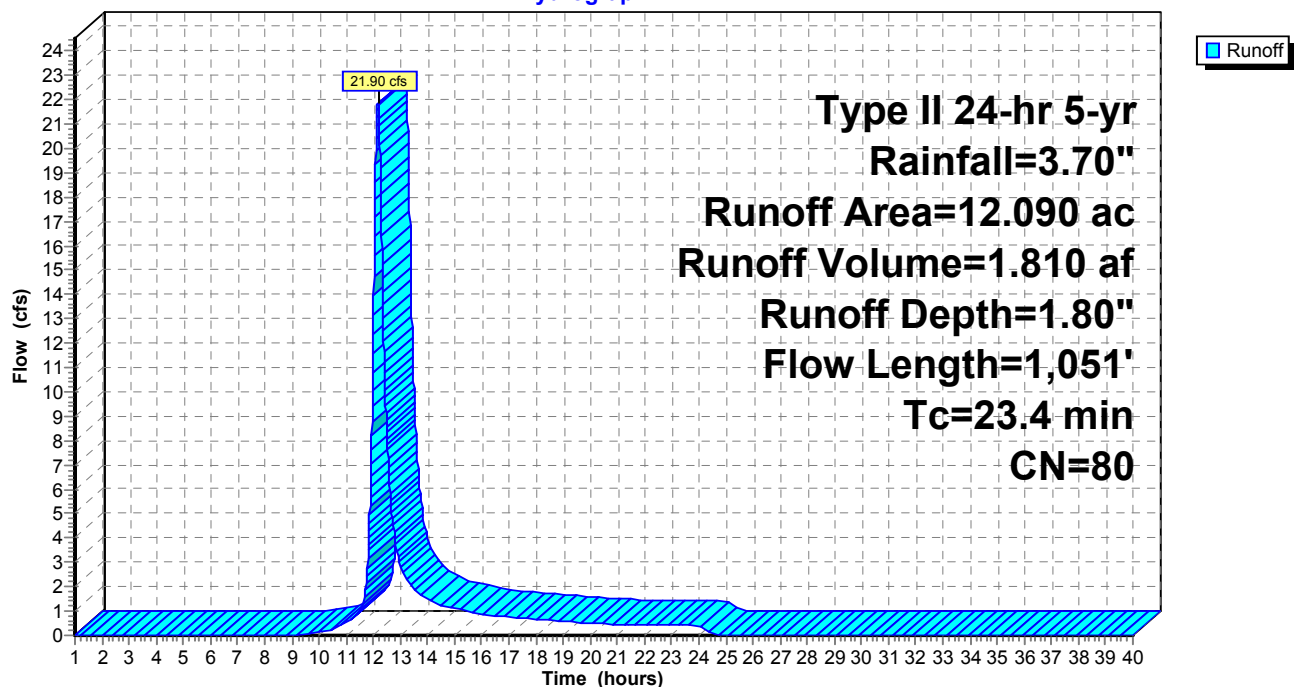
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
12.090	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,051	0.0200	0.7		Lag/CN Method,

Subcatchment W96: W96

Hydrograph



Subcatchment W97: W97

Runoff = 14.04 cfs @ 12.02 hrs, Volume= 0.753 af, Depth= 1.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

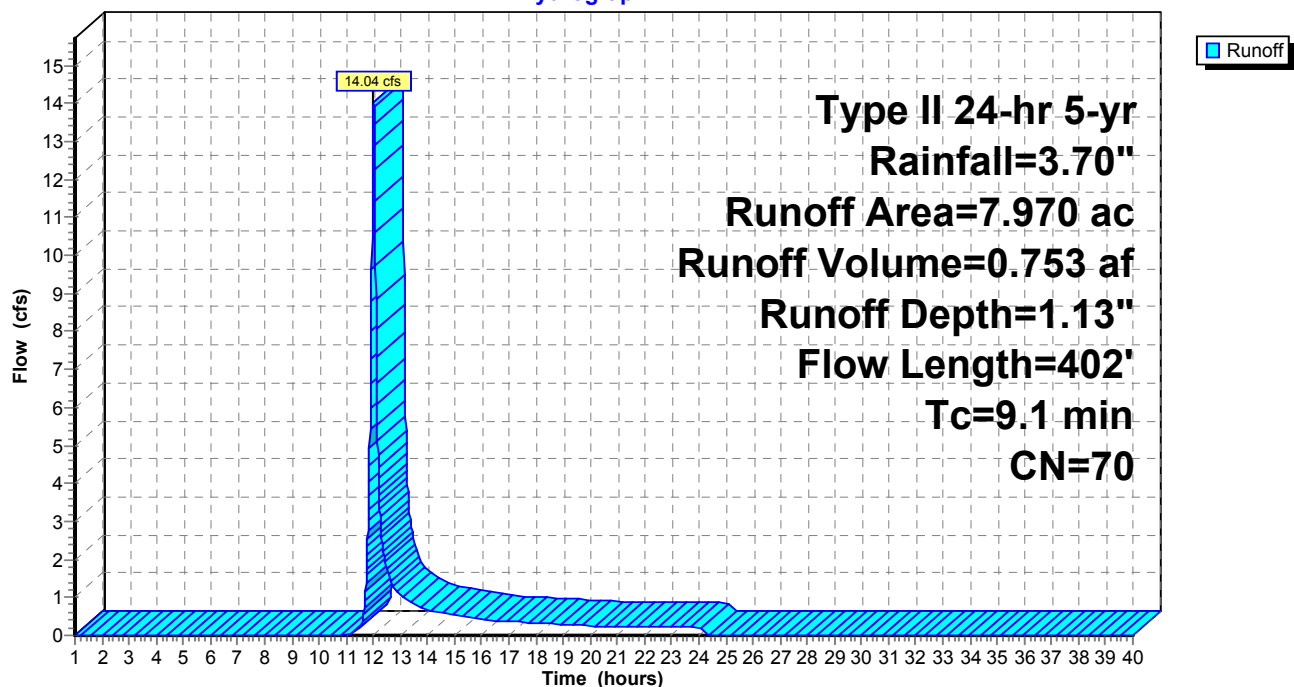
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
7.970	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	402	0.0500	0.7		Lag/CN Method,

Subcatchment W97: W97

Hydrograph



Subcatchment W98: W98

Runoff = 4.23 cfs @ 12.24 hrs, Volume= 0.498 af, Depth= 0.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

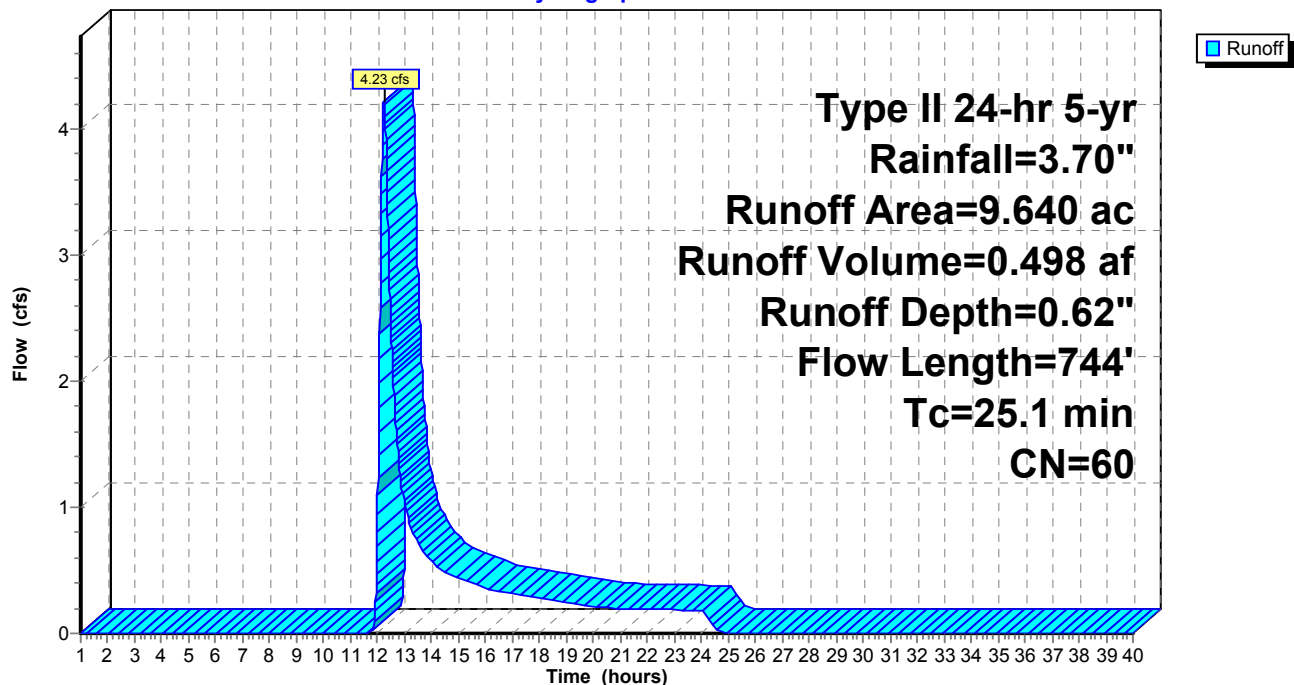
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
9.640	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	744	0.0300	0.5		Lag/CN Method,

Subcatchment W98: W98

Hydrograph



Subcatchment W99: W99

Runoff = 5.61 cfs @ 12.01 hrs, Volume= 0.296 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

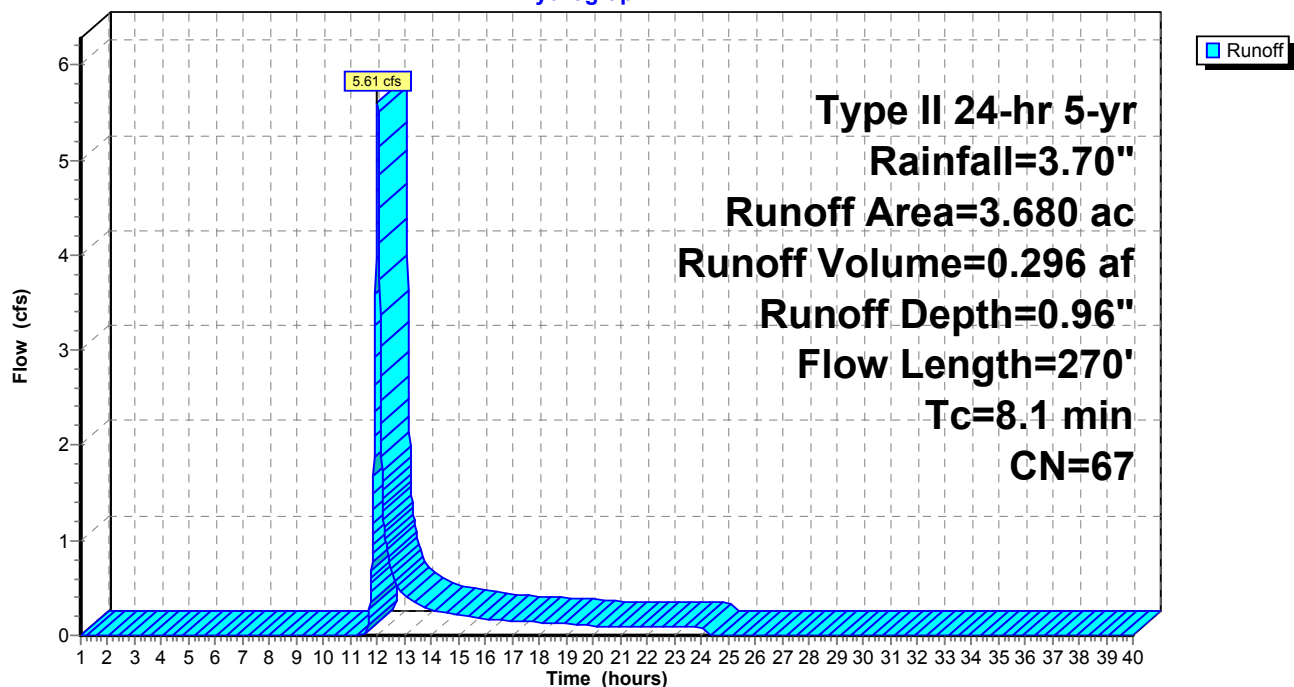
Type II 24-hr 5-yr Rainfall=3.70"

Area (ac)	CN	Description
3.680	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	270	0.0400	0.6		Lag/CN Method,

Subcatchment W99: W99

Hydrograph



Reach 4R: (new Reach)

Inflow Area = 47.571 ac, Inflow Depth > 0.60" for 5-yr event
 Inflow = 1.57 cfs @ 18.54 hrs, Volume= 2.391 af
 Outflow = 1.57 cfs @ 18.66 hrs, Volume= 2.381 af, Atten= 0%, Lag= 7.5 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.4 fps, Min. Travel Time= 10.9 min

Avg. Velocity = 1.2 fps, Avg. Travel Time= 12.9 min

Peak Depth= 0.19' @ 18.66 hrs

Capacity at bank full= 1,161.31 cfs

Inlet Invert= 980.00', Outlet Invert= 968.00'

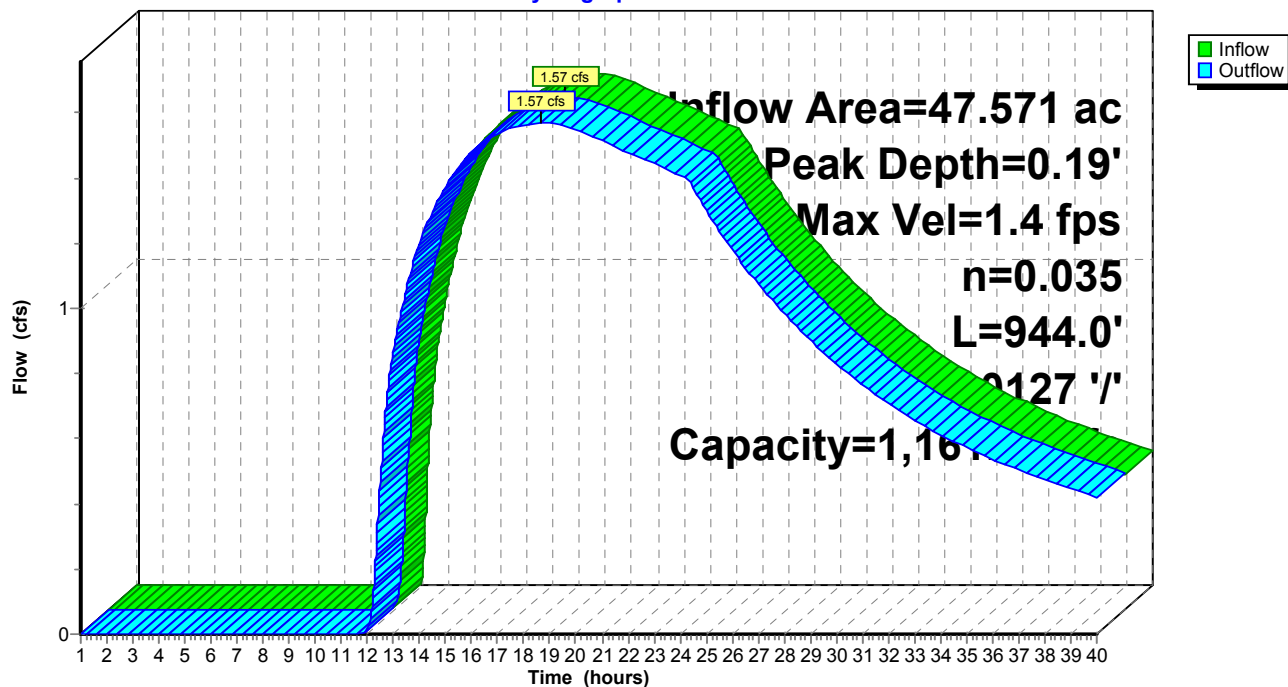
5.00' x 5.00' deep channel, n= 0.035 Earth, dense weeds

Side Slope Z-value= 4.0 ' Top Width= 45.00'

Length= 944.0' Slope= 0.0127 '/'

Reach 4R: (new Reach)

Hydrograph



Reach 6R: (new Reach)

Inflow Area = 18.570 ac, Inflow Depth = 1.59" for 5-yr event
Inflow = 68.66 cfs @ 11.95 hrs, Volume= 2.458 af
Outflow = 55.56 cfs @ 11.98 hrs, Volume= 2.458 af, Atten= 19%, Lag= 1.8 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.0 fps, Min. Travel Time= 2.7 min

Avg. Velocity = 1.0 fps, Avg. Travel Time= 8.5 min

Peak Depth= 1.64' @ 11.98 hrs

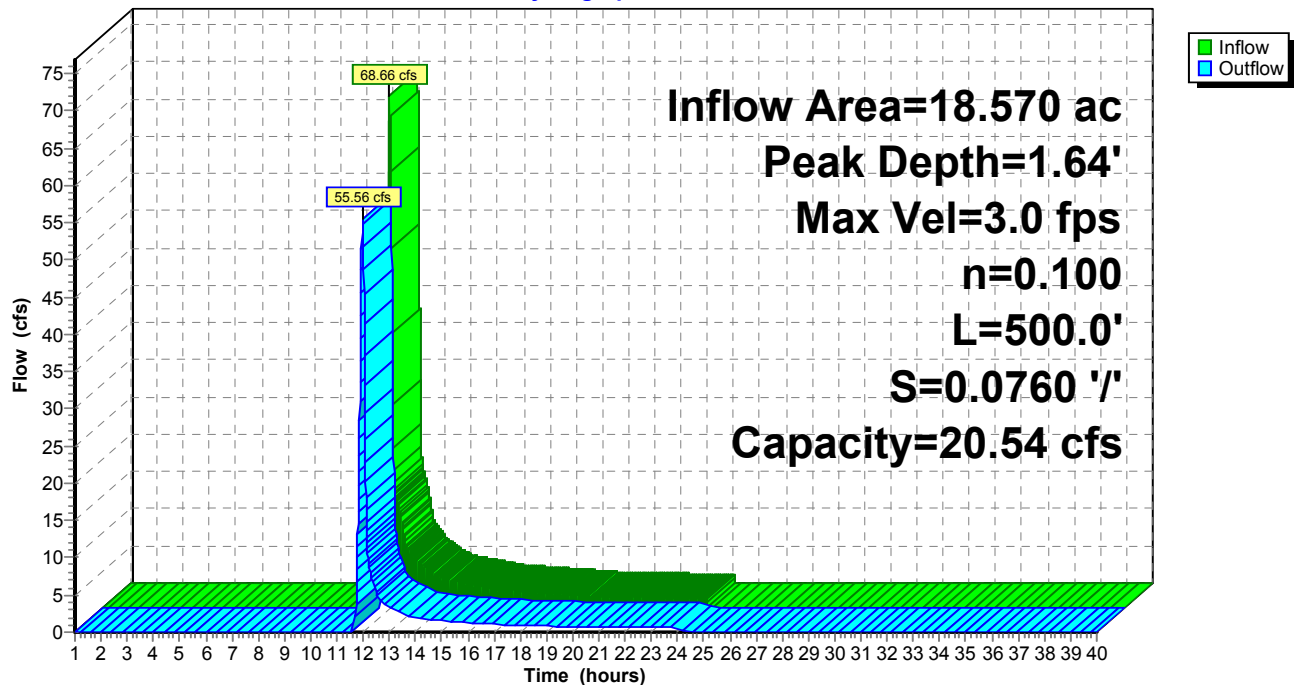
Capacity at bank full= 20.54 cfs

Inlet Invert= 1,108.00', Outlet Invert= 1,070.00'

0.00' x 1.00' deep channel, n= 0.100 Earth, dense brush, high stage

Side Slope Z-value= 8.0 '/' Top Width= 16.00'

Length= 500.0' Slope= 0.0760 '/'

Reach 6R: (new Reach)**Hydrograph**

Reach A1R: A1R

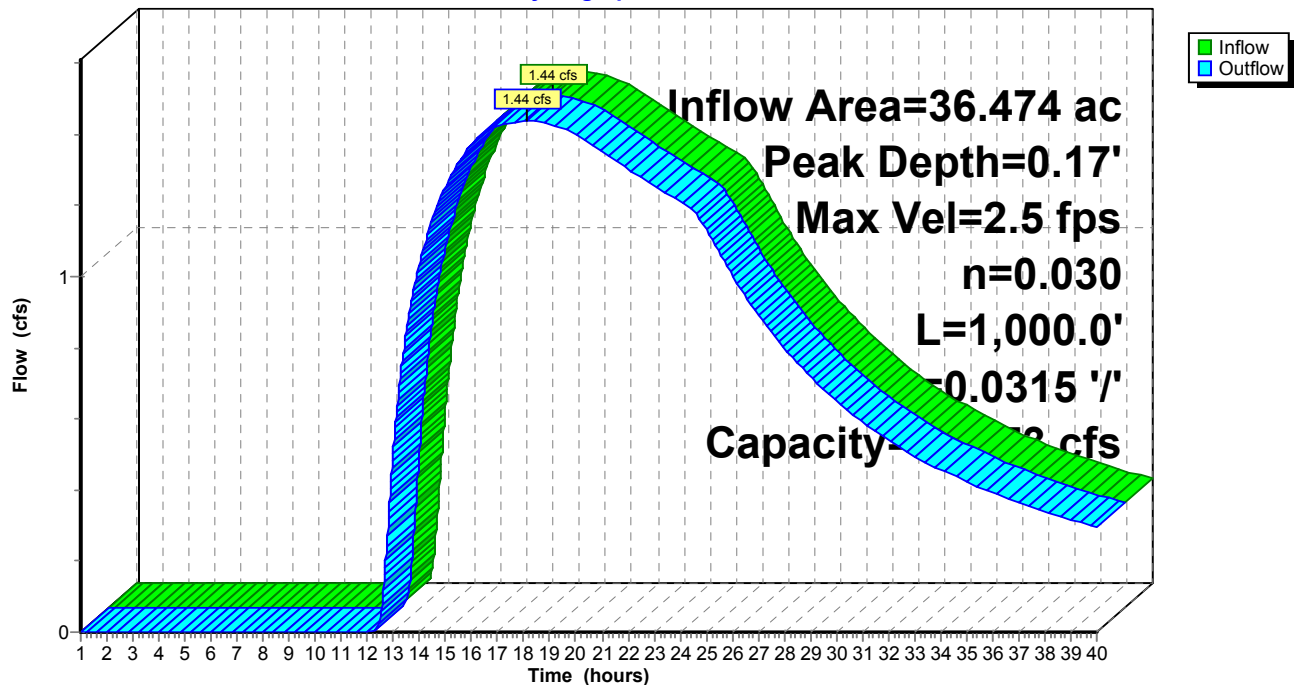
Inflow Area = 36.474 ac, Inflow Depth > 0.66" for 5-yr event
Inflow = 1.44 cfs @ 18.03 hrs, Volume= 2.010 af
Outflow = 1.44 cfs @ 18.10 hrs, Volume= 2.005 af, Atten= 0%, Lag= 4.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.5 fps, Min. Travel Time= 6.6 min
Avg. Velocity = 2.0 fps, Avg. Travel Time= 8.2 min

Peak Depth= 0.17' @ 18.10 hrs
Capacity at bank full= 330.73 cfs
Inlet Invert= 1,092.50', Outlet Invert= 1,061.00'
3.00' x 3.00' deep channel, n= 0.030
Side Slope Z-value= 2.0 '/' Top Width= 15.00'
Length= 1,000.0' Slope= 0.0315 '/'

Reach A1R: A1R

Hydrograph



Reach A4R: A4R

Inflow Area = 34.000 ac, Inflow Depth > 0.58" for 5-yr event
Inflow = 0.97 cfs @ 22.16 hrs, Volume= 1.656 af
Outflow = 0.97 cfs @ 22.31 hrs, Volume= 1.646 af, Atten= 0%, Lag= 9.4 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.9 fps, Min. Travel Time= 13.2 min

Avg. Velocity = 1.7 fps, Avg. Travel Time= 14.9 min

Peak Depth= 0.21' @ 22.31 hrs

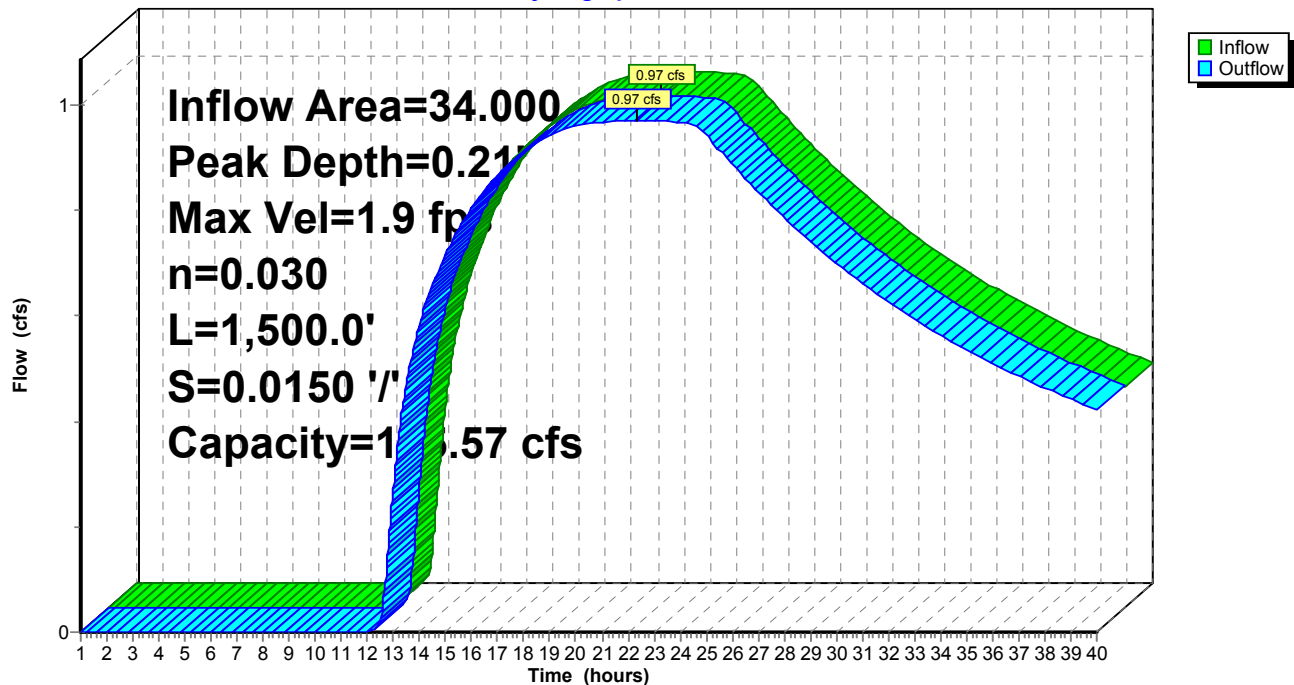
Capacity at bank full= 195.57 cfs

Inlet Invert= 1,083.50', Outlet Invert= 1,061.00'

2.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 14.00'

Length= 1,500.0' Slope= 0.0150 '/'

Reach A4R: A4R**Hydrograph**

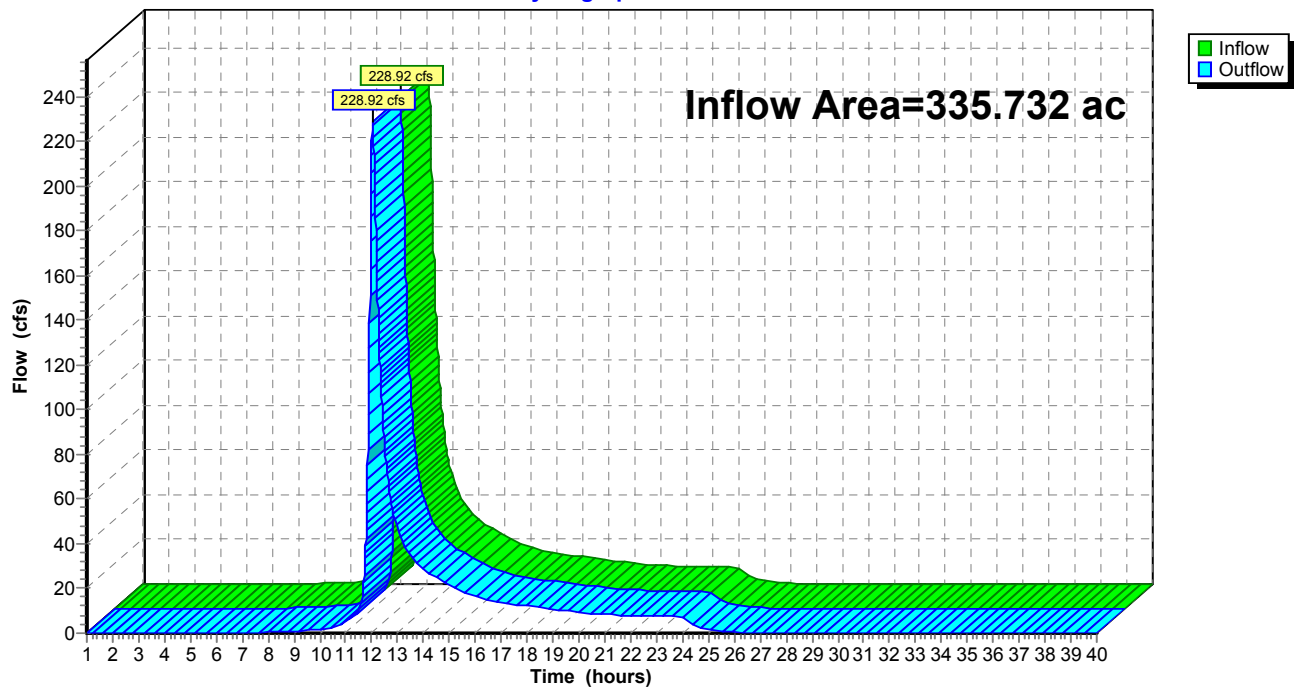
Reach Apple River 1: Apple River-Above Dam

Inflow Area = 335.732 ac, Inflow Depth = 0.93" for 5-yr event
Inflow = 228.92 cfs @ 12.03 hrs, Volume= 25.887 af
Outflow = 228.92 cfs @ 12.03 hrs, Volume= 25.887 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 1: Apple River-Above Dam

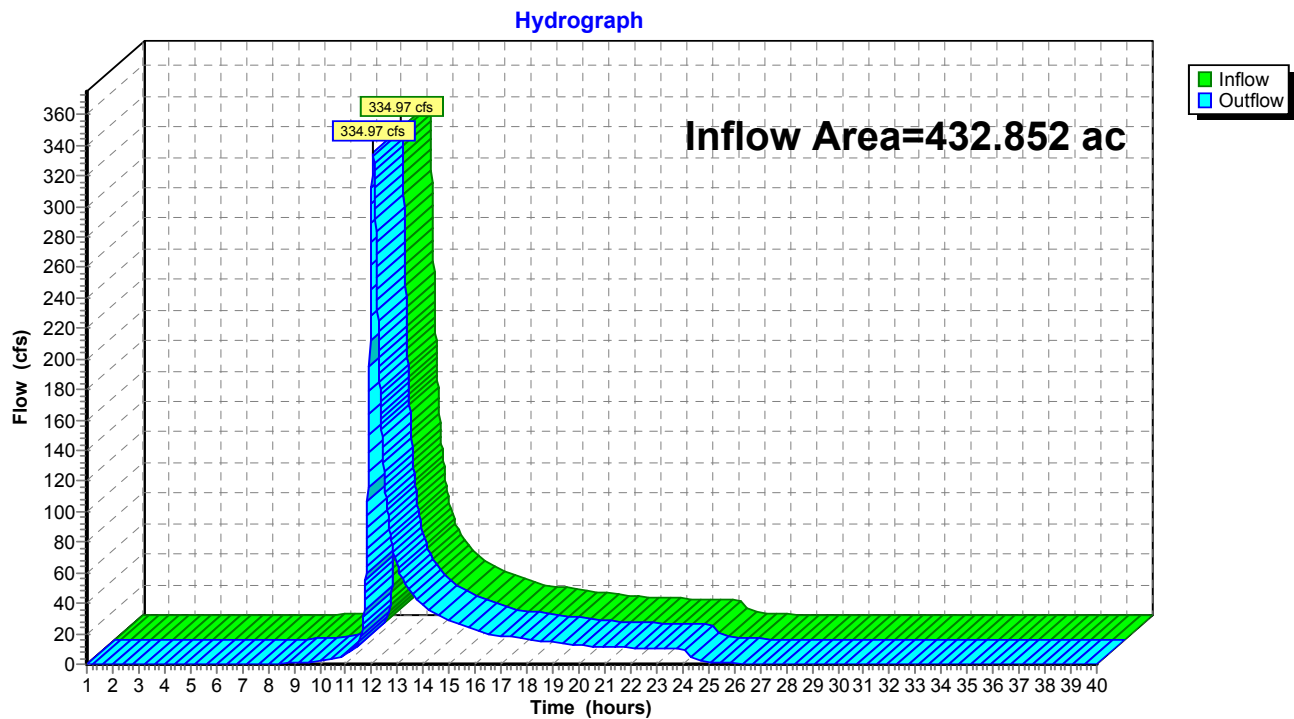
Hydrograph



Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Inflow Area = 432.852 ac, Inflow Depth = 0.99" for 5-yr event
Inflow = 334.97 cfs @ 12.05 hrs, Volume= 35.874 af
Outflow = 334.97 cfs @ 12.05 hrs, Volume= 35.874 af, Atten= 0%, Lag= 0.0 min

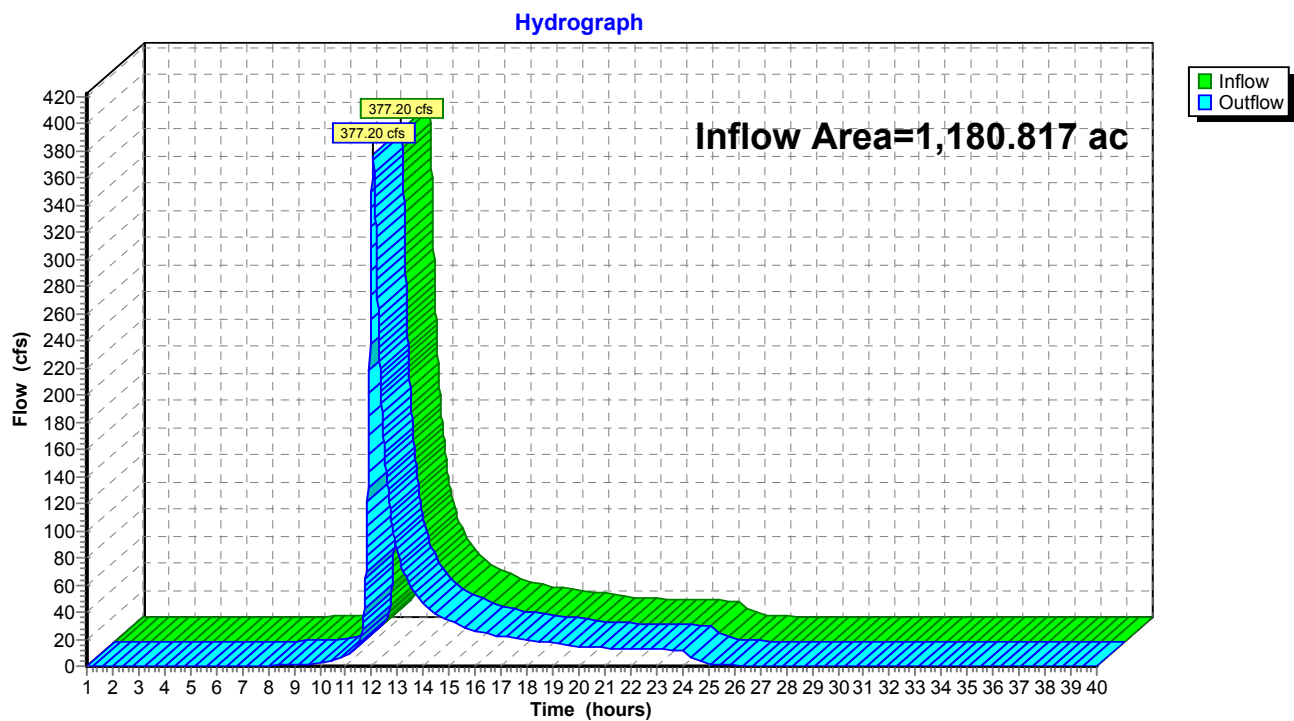
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Reach Apple River 3: Apple River - At South Twin Outlet

Inflow Area = 1,180.817 ac, Inflow Depth > 0.44" for 5-yr event
Inflow = 377.20 cfs @ 12.06 hrs, Volume= 43.304 af
Outflow = 377.20 cfs @ 12.06 hrs, Volume= 43.304 af, Atten= 0%, Lag= 0.0 min

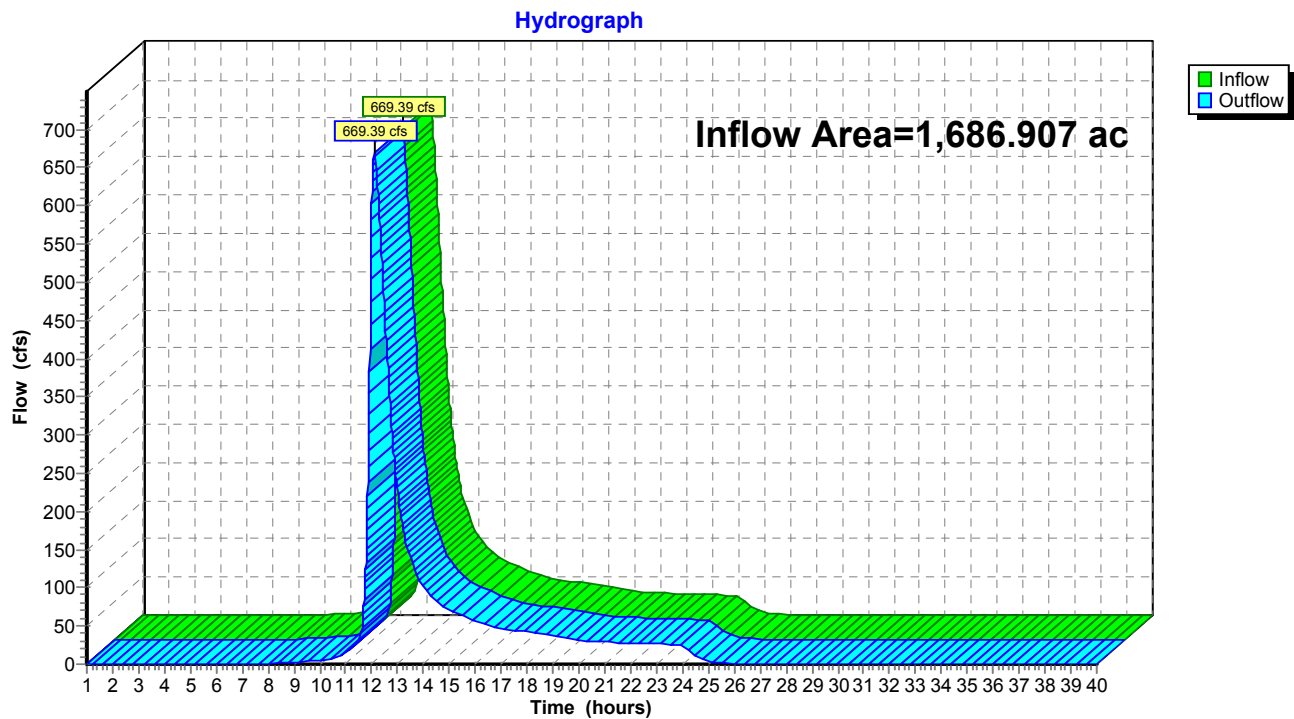
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 3: Apple River - At South Twin Outlet

Reach Apple River 4: Apple River Downstream of South Twin Outlet

Inflow Area = 1,686.907 ac, Inflow Depth > 0.69" for 5-yr event
Inflow = 669.39 cfs @ 12.10 hrs, Volume= 97.040 af
Outflow = 669.39 cfs @ 12.10 hrs, Volume= 97.040 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 4: Apple River Downstream of South Twin Outlet

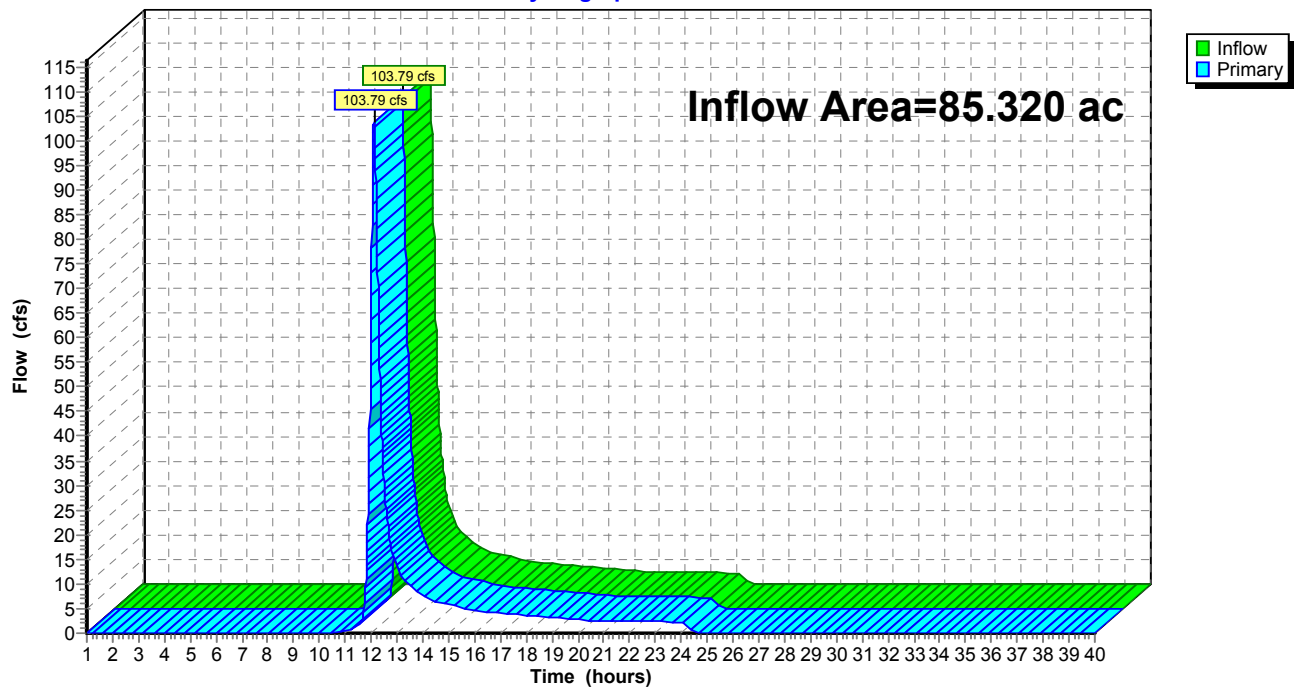
Pond 1P: (new Pond)

Inflow Area = 85.320 ac, Inflow Depth = 1.16" for 5-yr event
Inflow = 103.79 cfs @ 12.11 hrs, Volume= 8.241 af
Primary = 103.79 cfs @ 12.11 hrs, Volume= 8.241 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 1P: (new Pond)

Hydrograph



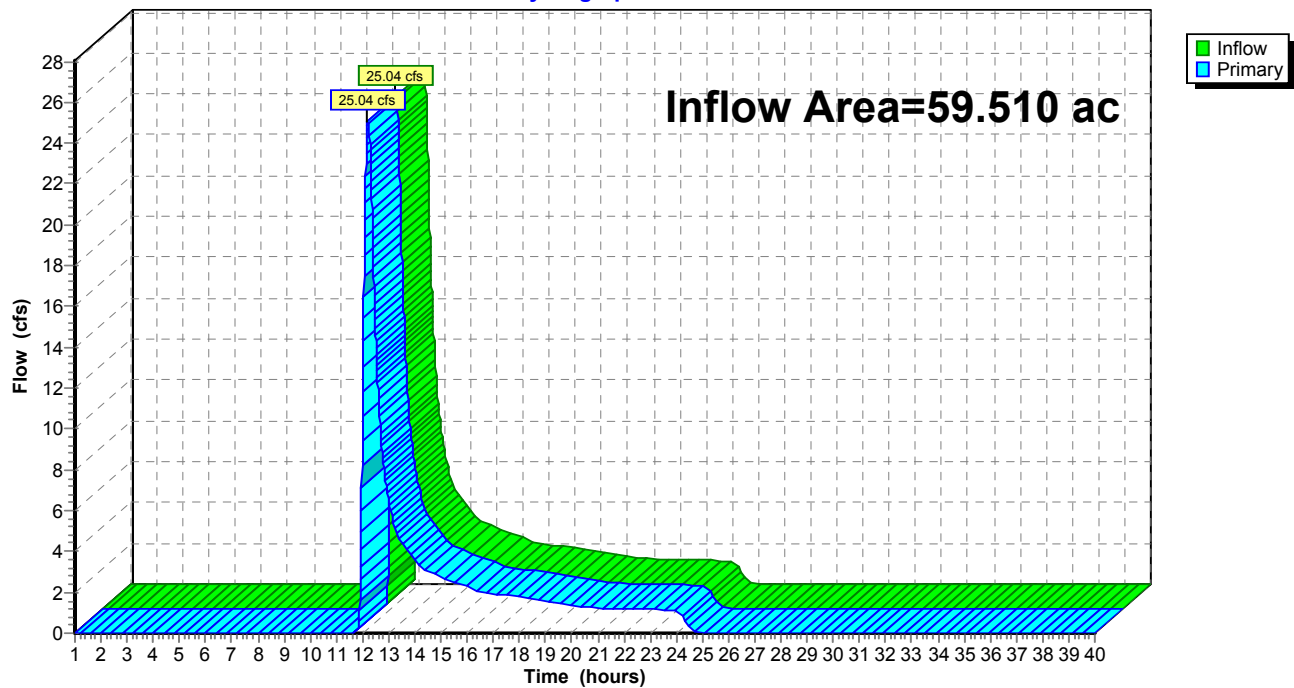
Pond 2P: (new Pond)

Inflow Area = 59.510 ac, Inflow Depth = 0.63" for 5-yr event
Inflow = 25.04 cfs @ 12.20 hrs, Volume= 3.145 af
Primary = 25.04 cfs @ 12.20 hrs, Volume= 3.145 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 2P: (new Pond)

Hydrograph



Pond 3P: (new Pond)

Inflow Area = 47.571 ac, Inflow Depth = 0.86" for 5-yr event
 Inflow = 51.63 cfs @ 12.06 hrs, Volume= 3.406 af
 Outflow = 1.57 cfs @ 18.54 hrs, Volume= 2.391 af, Atten= 97%, Lag= 388.4 min
 Primary = 1.57 cfs @ 18.54 hrs, Volume= 2.391 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.43' @ 18.54 hrs Surf.Area= 221,345 sf Storage= 93,267 cf
 Plug-Flow detention time= 642.7 min calculated for 2.391 af (70% of inflow)
 Center-of-Mass det. time= 525.4 min (1,410.9 - 885.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,068.00'	4,623,972 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

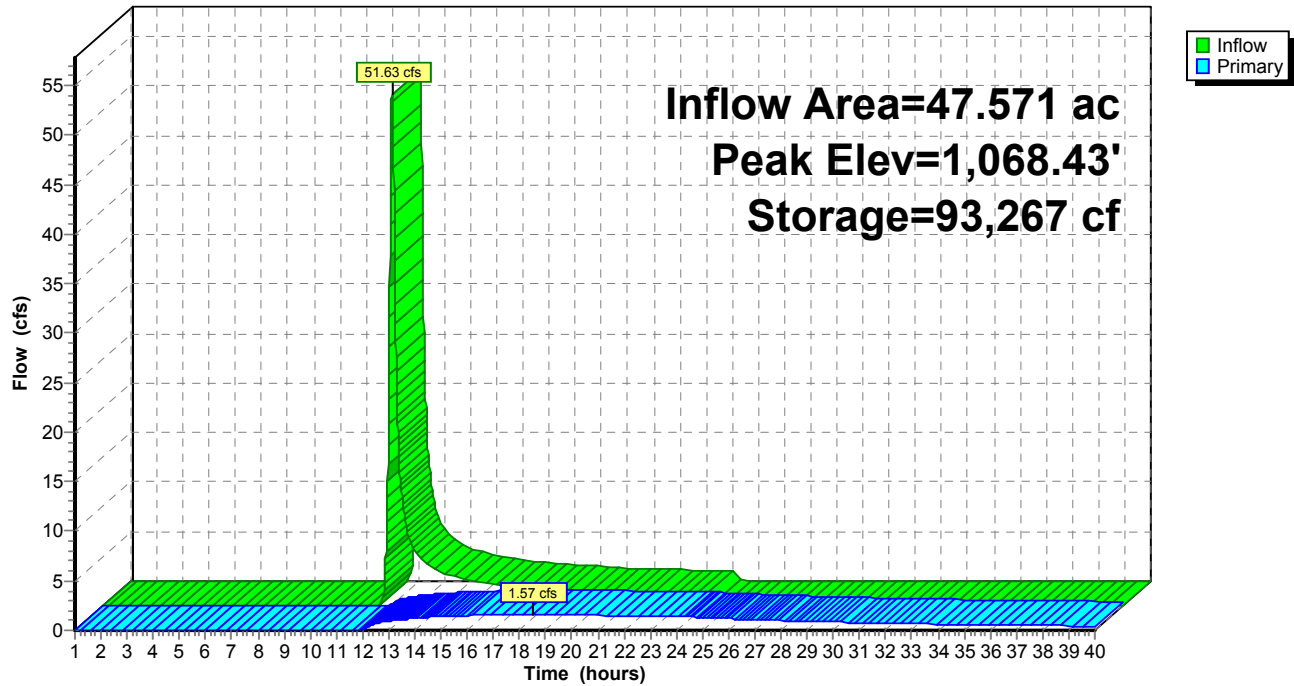
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,068.00	208,562	0	0
1,080.00	562,100	4,623,972	4,623,972

Device	Routing	Invert	Outlet Devices
#1	Primary	1,068.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 10.00 Width (feet) 1.00 40.00

Primary OutFlow Max=1.57 cfs @ 18.54 hrs HW=1,068.43' TW=980.19' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Weir Controls 1.57 cfs @ 2.0 fps)

Pond 3P: (new Pond)

Hydrograph



Pond 5P: (new Pond)

Inflow Area = 18.570 ac, Inflow Depth = 1.72" for 5-yr event
 Inflow = 61.74 cfs @ 11.95 hrs, Volume= 2.666 af
 Outflow = 68.66 cfs @ 11.95 hrs, Volume= 2.458 af, Atten= 0%, Lag= 0.0 min
 Primary = 68.66 cfs @ 11.95 hrs, Volume= 2.458 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,131.22' @ 11.95 hrs Surf.Area= 9,060 sf Storage= 9,060 cf
 Plug-Flow detention time= 55.1 min calculated for 2.458 af (92% of inflow)
 Center-of-Mass det. time= 13.6 min (847.0 - 833.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,107.00'	9,060 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

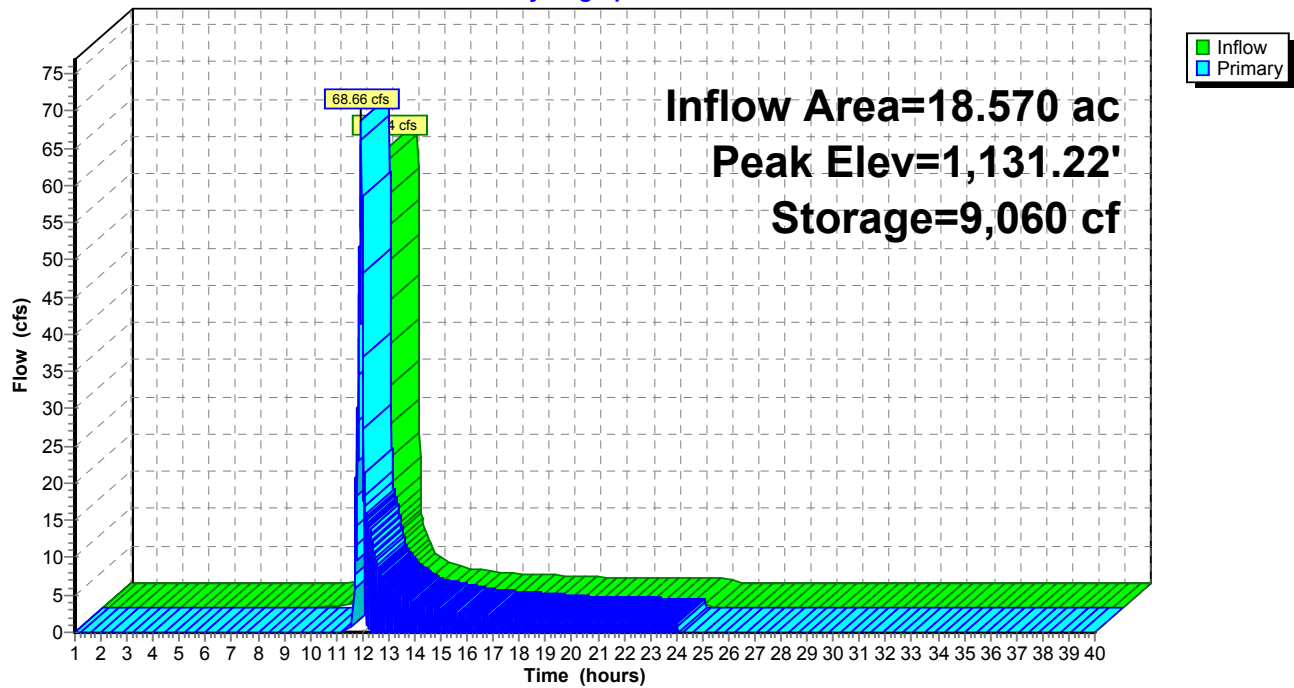
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,107.00	9,060	0	0
1,108.00	9,060	9,060	9,060

Device	Routing	Invert	Outlet Devices
#1	Primary	1,107.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 1.00 Width (feet) 1.00 5.00

Primary OutFlow Max=68.49 cfs @ 11.95 hrs HW=1,131.17' TW=1,109.57' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Orifice Controls 68.49 cfs @ 22.8 fps)

Pond 5P: (new Pond)

Hydrograph



Pond A10P: A10P

Inflow Area = 9.300 ac, Inflow Depth = 1.08" for 5-yr event
 Inflow = 16.99 cfs @ 11.99 hrs, Volume= 0.834 af
 Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.45' @ 24.40 hrs Surf.Area= 62,270 sf Storage= 36,323 cf
 Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

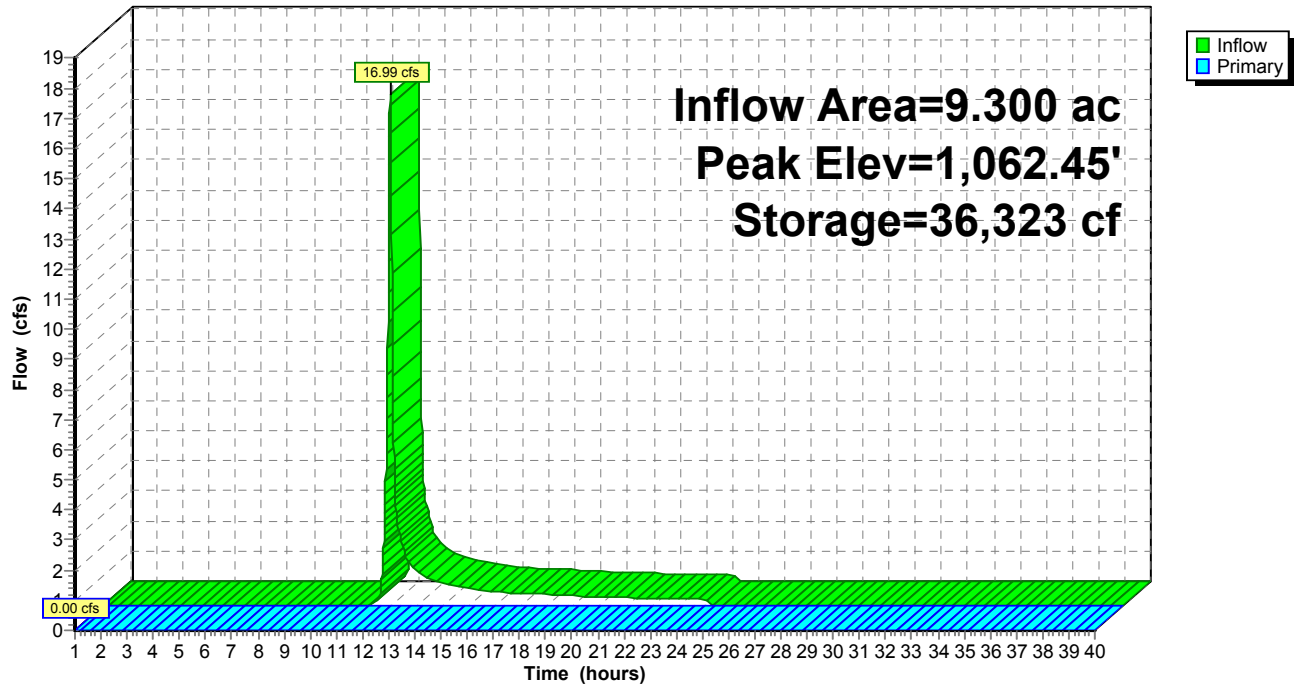
Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	640,000 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	60,000	0	0
1,070.00	100,000	640,000	640,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,070.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=1,062.00' TW=1,060.80' (Dynamic Tailwater)

↑1=**Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond A10P: A10P**Hydrograph**

Pond A1P: WETLAND PONDS

Inflow Area = 36.474 ac, Inflow Depth = 0.96" for 5-yr event
 Inflow = 22.43 cfs @ 12.39 hrs, Volume= 2.932 af
 Outflow = 1.44 cfs @ 18.03 hrs, Volume= 2.010 af, Atten= 94%, Lag= 338.6 min
 Primary = 1.44 cfs @ 18.03 hrs, Volume= 2.010 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,093.32' @ 18.04 hrs Surf.Area= 89,692 sf Storage= 79,580 cf
 Plug-Flow detention time= 610.4 min calculated for 2.009 af (69% of inflow)
 Center-of-Mass det. time= 490.9 min (1,392.9 - 902.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,092.50'	243,750 cf	Custom Stage Data (Prismatic) Listed below

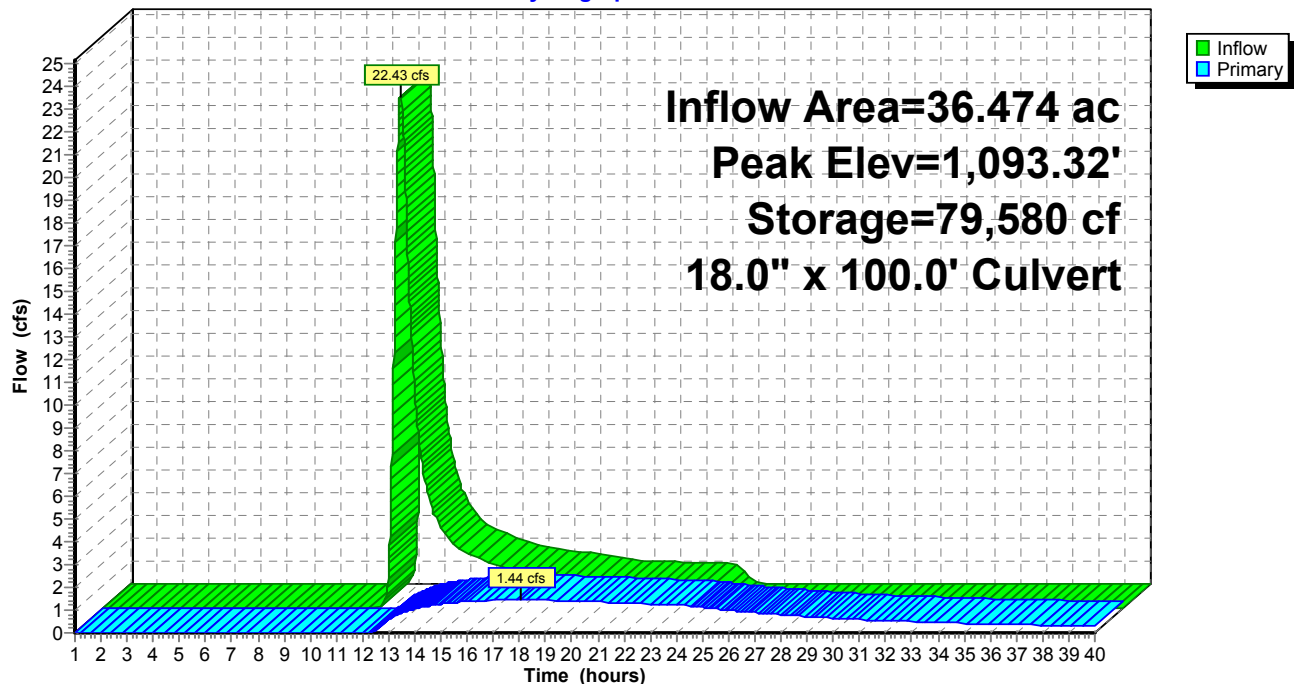
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,092.50	75,000	0	0
1,095.00	120,000	243,750	243,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,092.50'	18.0" x 100.0' long Culvert Ke= 0.700 Outlet Invert= 1,091.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=1.44 cfs @ 18.03 hrs HW=1,093.32' TW=1,092.67' (Dynamic Tailwater)
 ↑ **1=Culvert** (Outlet Controls 1.44 cfs @ 2.1 fps)

Pond A1P: WETLAND PONDS

Hydrograph



Pond A4P: A4P

Inflow Area = 34.000 ac, Inflow Depth = 1.13" for 5-yr event
 Inflow = 27.63 cfs @ 12.33 hrs, Volume= 3.212 af
 Outflow = 0.97 cfs @ 22.16 hrs, Volume= 1.656 af, Atten= 96%, Lag= 589.7 min
 Primary = 0.97 cfs @ 22.16 hrs, Volume= 1.656 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,084.56' @ 22.16 hrs Surf.Area= 168,693 sf Storage= 103,609 cf
 Plug-Flow detention time= 755.5 min calculated for 1.656 af (52% of inflow)
 Center-of-Mass det. time= 615.3 min (1,504.4 - 889.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,084.00'	368,635 cf	Custom Stage Data (Prismatic) Listed below

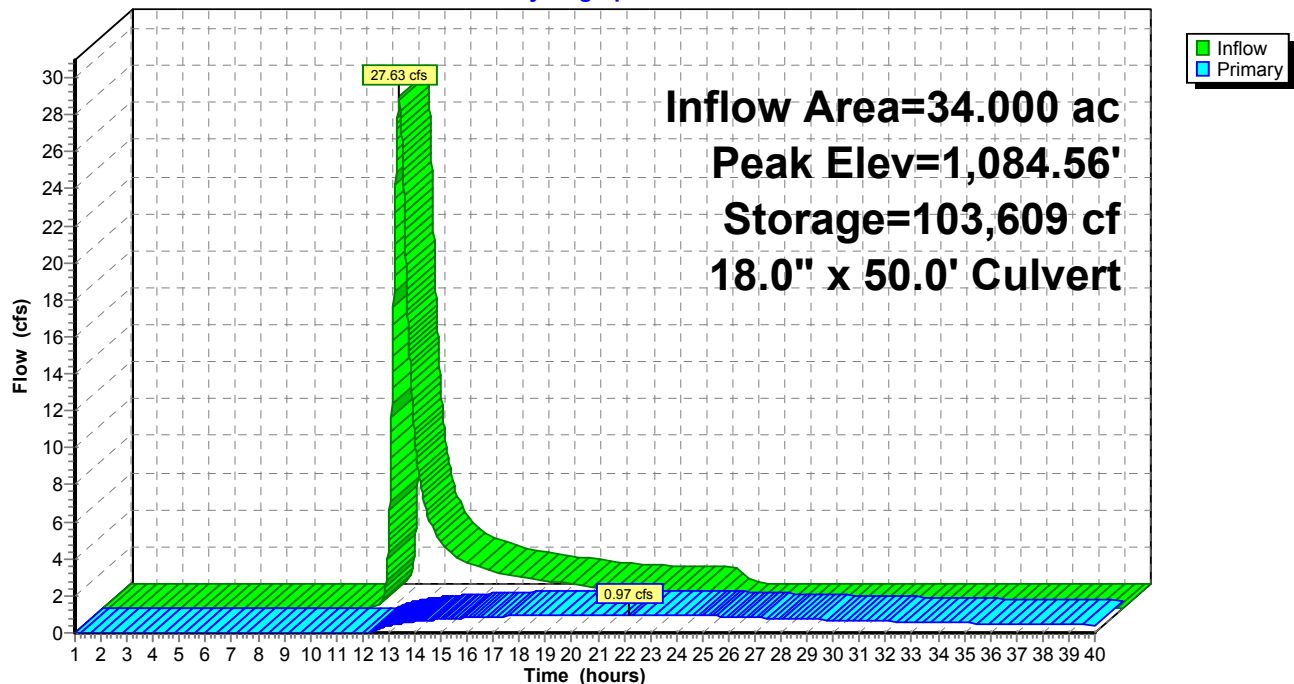
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,084.00	148,635	0	0
1,086.00	220,000	368,635	368,635

Device	Routing	Invert	Outlet Devices
#1	Primary	1,084.00'	18.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,083.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.97 cfs @ 22.16 hrs HW=1,084.56' TW=1,083.71' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.97 cfs @ 2.4 fps)

Pond A4P: A4P

Hydrograph



Pond B6P: WETPONDS

Inflow Area = 16.070 ac, Inflow Depth = 1.02" for 5-yr event
 Inflow = 25.14 cfs @ 12.02 hrs, Volume= 1.365 af
 Outflow = 1.00 cfs @ 11.87 hrs, Volume= 1.366 af, Atten= 96%, Lag= 0.0 min
 Discarded = 1.00 cfs @ 11.87 hrs, Volume= 1.366 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.75' @ 14.97 hrs Surf.Area= 37,477 sf Storage= 28,685 cf
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 320.3 min (1,191.8 - 871.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.00'	153,798 cf	Custom Stage Data (Prismatic) Listed below

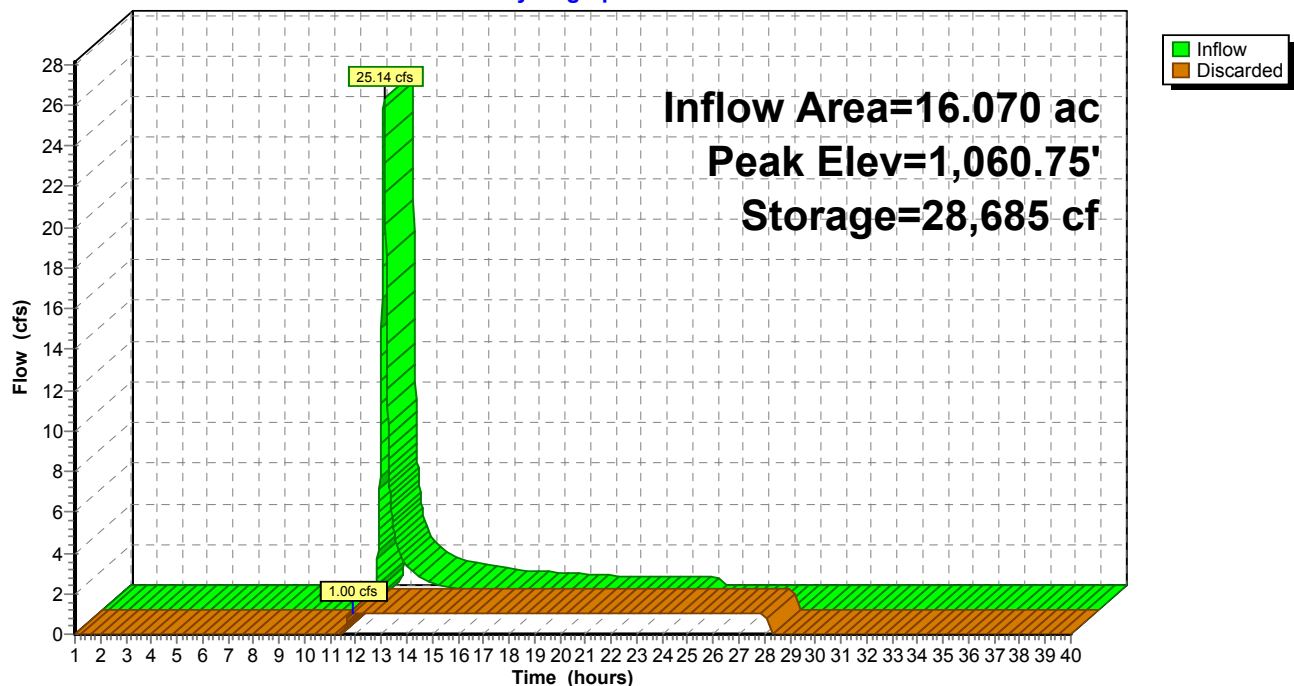
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,060.00	36,899	0	0
1,064.00	40,000	153,798	153,798

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	1.00 cfs Exfiltration at all elevations

Discarded OutFlow Max=1.00 cfs @ 11.87 hrs HW=1,060.04' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 1.00 cfs)

Pond B6P: WETPONDS

Hydrograph



Pond B7P: DRY POND

Inflow Area = 15.390 ac, Inflow Depth = 0.81" for 5-yr event
 Inflow = 7.81 cfs @ 12.38 hrs, Volume= 1.037 af
 Outflow = 3.66 cfs @ 12.83 hrs, Volume= 1.035 af, Atten= 53%, Lag= 27.2 min
 Primary = 3.66 cfs @ 12.83 hrs, Volume= 1.035 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.27' @ 12.83 hrs Surf.Area= 37,209 sf Storage= 10,883 cf
 Plug-Flow detention time= 76.5 min calculated for 1.035 af (100% of inflow)
 Center-of-Mass det. time= 75.4 min (986.0 - 910.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	81,000 cf	Custom Stage Data (Prismatic) Listed below

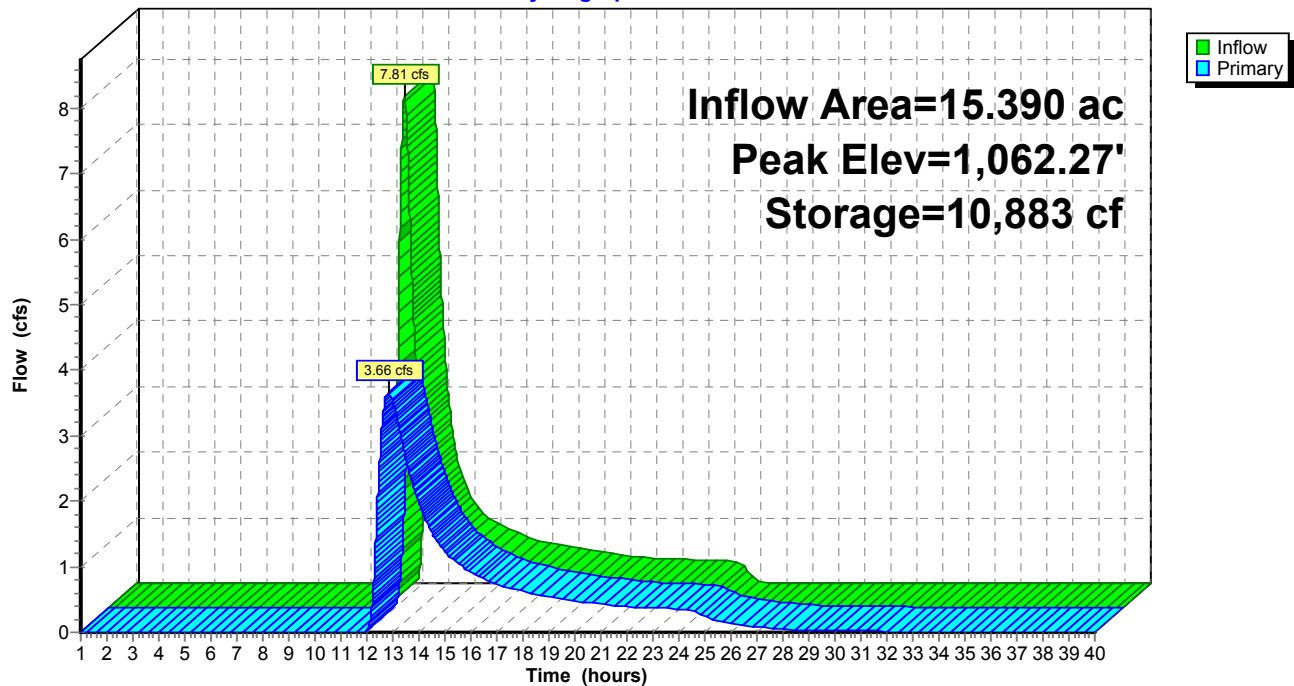
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	36,000	0	0
1,064.00	45,000	81,000	81,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=3.66 cfs @ 12.83 hrs HW=1,062.27' TW=1,060.84' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 3.66 cfs @ 1.4 fps)

Pond B7P: DRY POND

Hydrograph



Pond C4P: GOLF COURSE POND

Inflow Area = 20.070 ac, Inflow Depth = 0.81" for 5-yr event
 Inflow = 27.29 cfs @ 11.98 hrs, Volume= 1.352 af
 Outflow = 5.49 cfs @ 12.17 hrs, Volume= 1.350 af, Atten= 80%, Lag= 11.3 min
 Primary = 5.49 cfs @ 12.17 hrs, Volume= 1.350 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.27' @ 12.17 hrs Surf.Area= 59,825 sf Storage= 16,192 cf
 Plug-Flow detention time= 79.3 min calculated for 1.350 af (100% of inflow)
 Center-of-Mass det. time= 78.2 min (961.2 - 883.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,063.00'	147,275 cf	Custom Stage Data (Prismatic) Listed below

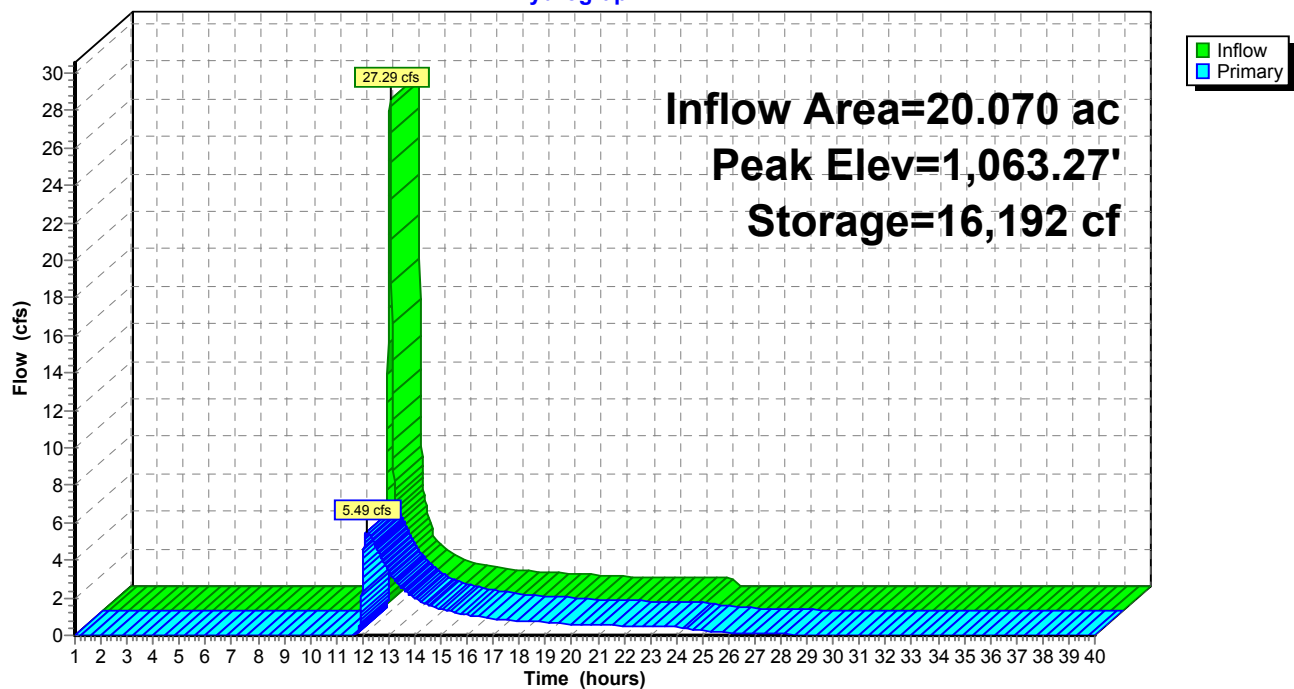
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,063.00	53,600	0	0
1,063.50	65,000	29,650	29,650
1,064.00	76,500	35,375	65,025
1,065.00	88,000	82,250	147,275

Device	Routing	Invert	Outlet Devices
#1	Primary	1,063.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=5.49 cfs @ 12.17 hrs HW=1,063.27' TW=1,059.82' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 5.49 cfs @ 1.3 fps)

Pond C4P: GOLF COURSE POND

Hydrograph



Pond C6P: GOLF COURSE POND

Inflow Area = 14.100 ac, Inflow Depth = 1.02" for 5-yr event
 Inflow = 25.82 cfs @ 11.97 hrs, Volume= 1.198 af
 Outflow = 1.07 cfs @ 13.97 hrs, Volume= 0.795 af, Atten= 96%, Lag= 120.0 min
 Primary = 1.07 cfs @ 13.97 hrs, Volume= 0.795 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,067.82' @ 13.97 hrs Surf.Area= 87,115 sf Storage= 27,158 cf
 Plug-Flow detention time= 376.2 min calculated for 0.795 af (66% of inflow)
 Center-of-Mass det. time= 253.1 min (1,121.2 - 868.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,067.50'	185,886 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,067.50	78,544	0	0
1,068.00	92,000	42,636	42,636
1,069.50	99,000	143,250	185,886

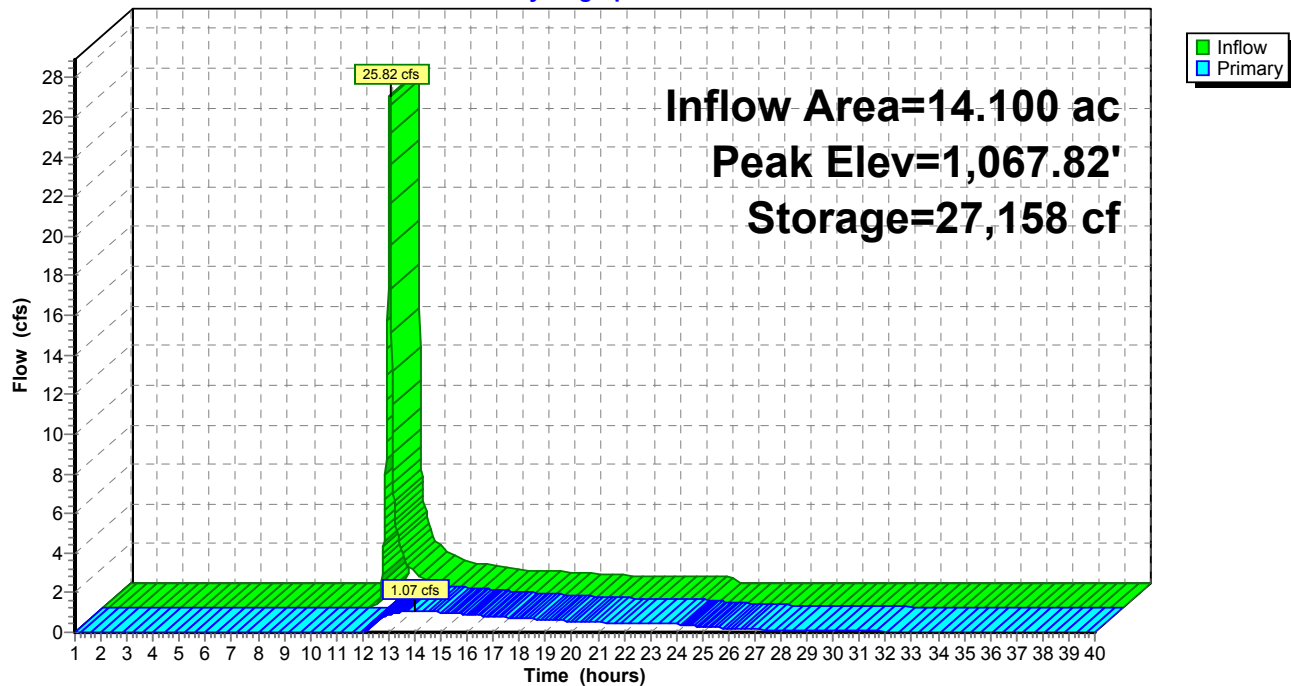
Device	Routing	Invert	Outlet Devices
#1	Primary	1,067.70'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=1.07 cfs @ 13.97 hrs HW=1,067.82' TW=1,059.89' (Dynamic Tailwater)

↑1=**Broad-Crested Rectangular Weir**(Weir Controls 1.07 cfs @ 0.9 fps)

Pond C6P: GOLF COURSE POND

Hydrograph



Pond C7P: (new node)

Inflow Area = 14.790 ac, Inflow Depth = 1.32" for 5-yr event
 Inflow = 36.82 cfs @ 11.95 hrs, Volume= 1.632 af
 Outflow = 0.23 cfs @ 24.05 hrs, Volume= 0.420 af, Atten= 99%, Lag= 726.1 min
 Primary = 0.23 cfs @ 24.05 hrs, Volume= 0.420 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.31' @ 24.05 hrs Surf.Area= 4.231 ac Storage= 1.460 af
 Plug-Flow detention time= 874.8 min calculated for 0.420 af (26% of inflow)
 Center-of-Mass det. time= 732.4 min (1,582.9 - 850.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	9.500 af	Custom Stage Data (Prismatic) Listed below

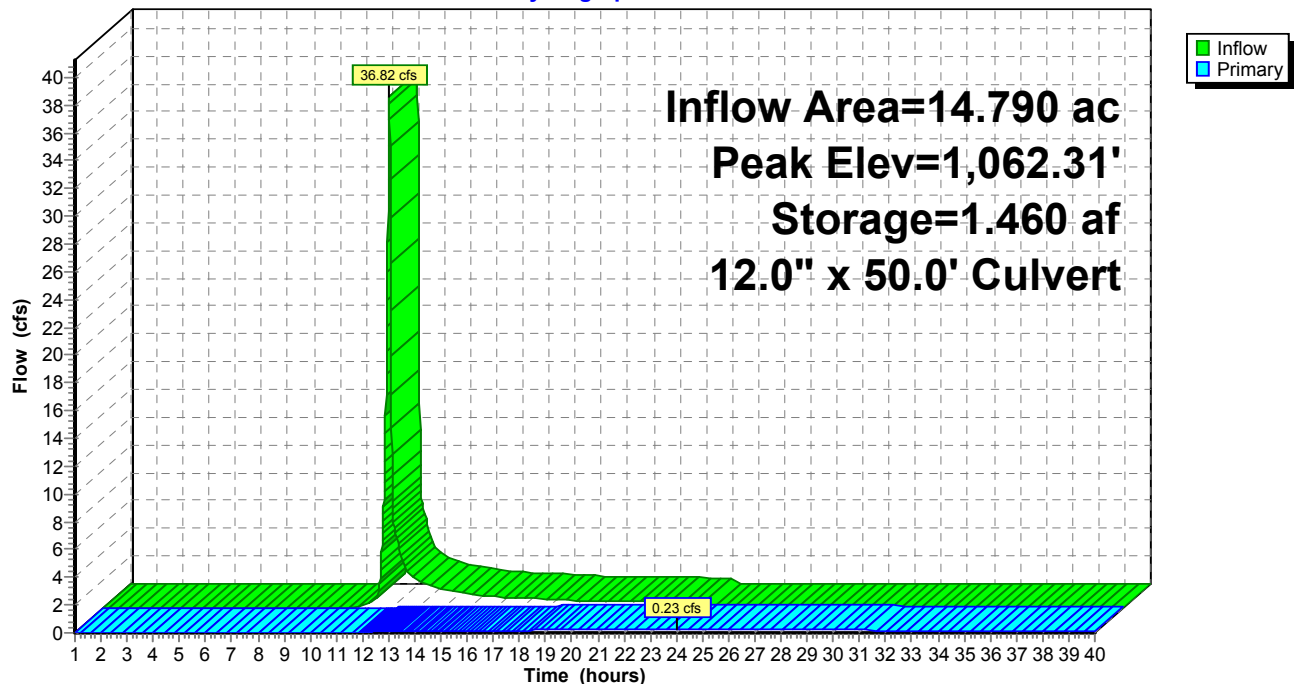
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,062.00	4.000	0.000	0.000
1,064.00	5.500	9.500	9.500

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	12.0" x 50.0' long Culvert Ke= 0.500 Outlet Invert= 1,061.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.23 cfs @ 24.05 hrs HW=1,062.31' TW=1,059.99' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.23 cfs @ 1.7 fps)

Pond C7P: (new node)

Hydrograph



Pond North Twin Lake: NORTH TWIN LAKE

Inflow Area = 570.115 ac, Inflow Depth > 0.45" for 5-yr event
 Inflow = 129.55 cfs @ 12.01 hrs, Volume= 21.410 af
 Outflow = 3.80 cfs @ 28.52 hrs, Volume= 8.881 af, Atten= 97%, Lag= 990.5 min
 Primary = 3.80 cfs @ 28.52 hrs, Volume= 8.881 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.89' @ 28.52 hrs Surf.Area= 142.631 ac Storage= 12.866 af
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 408.7 min (1,547.7 - 1,138.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	172.740 af	Custom Stage Data (Prismatic) Listed below

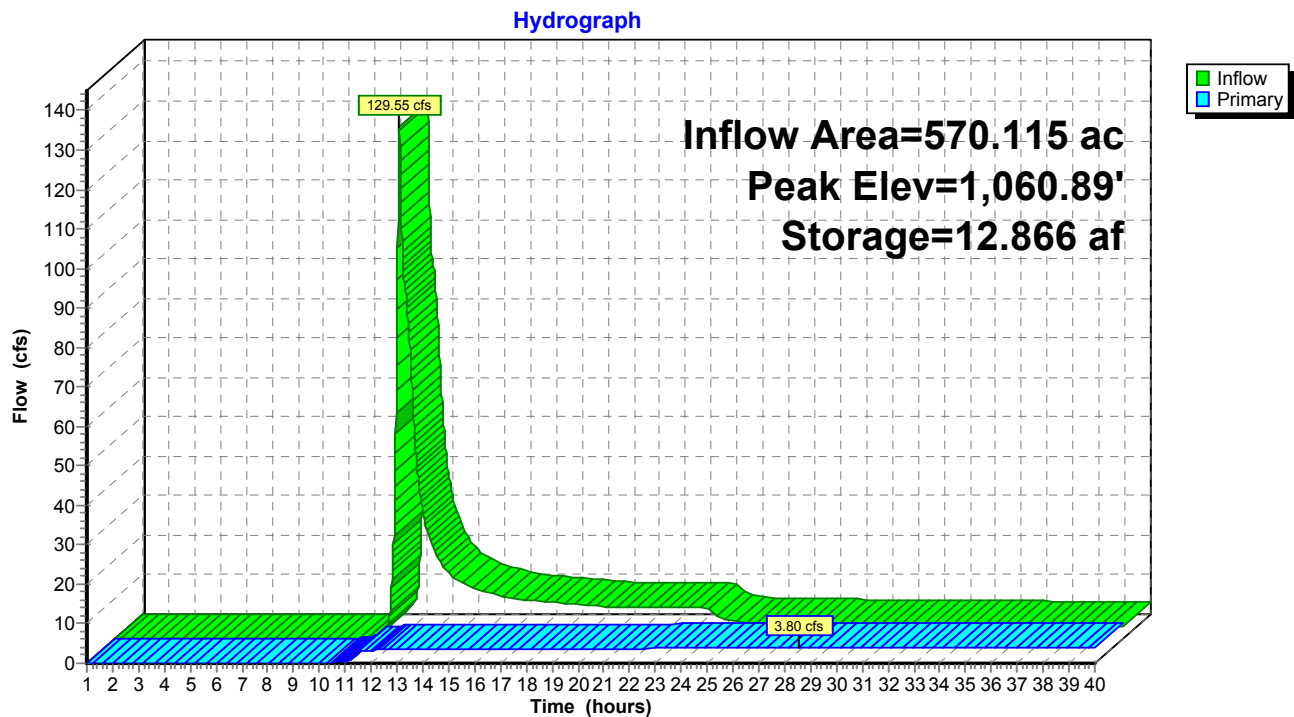
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	142.400	0.000	0.000
1,062.00	145.500	172.740	172.740

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	30.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.60' S= 0.0040 '/' Cc= 0.900 n= 0.024
#2	Primary	1,062.80'	100.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.80 cfs @ 28.52 hrs HW=1,060.89' TW=1,060.01' (Dynamic Tailwater)

1=Culvert (Barrel Controls 3.80 cfs @ 2.7 fps)
 2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond North Twin Lake: NORTH TWIN LAKE



Pond PIKE: PIKE LAKE

Inflow Area = 400.735 ac, Inflow Depth > 0.79" for 5-yr event
 Inflow = 240.48 cfs @ 12.04 hrs, Volume= 26.310 af
 Outflow = 3.93 cfs @ 24.29 hrs, Volume= 7.376 af, Atten= 98%, Lag= 735.2 min
 Primary = 3.93 cfs @ 24.29 hrs, Volume= 7.376 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.92' @ 24.49 hrs Surf.Area= 169.626 ac Storage= 20.900 af
 Plug-Flow detention time= 904.0 min calculated for 7.376 af (28% of inflow)
 Center-of-Mass det. time= 618.9 min (1,627.1 - 1,008.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	205.080 af	Custom Stage Data (Prismatic) Listed below

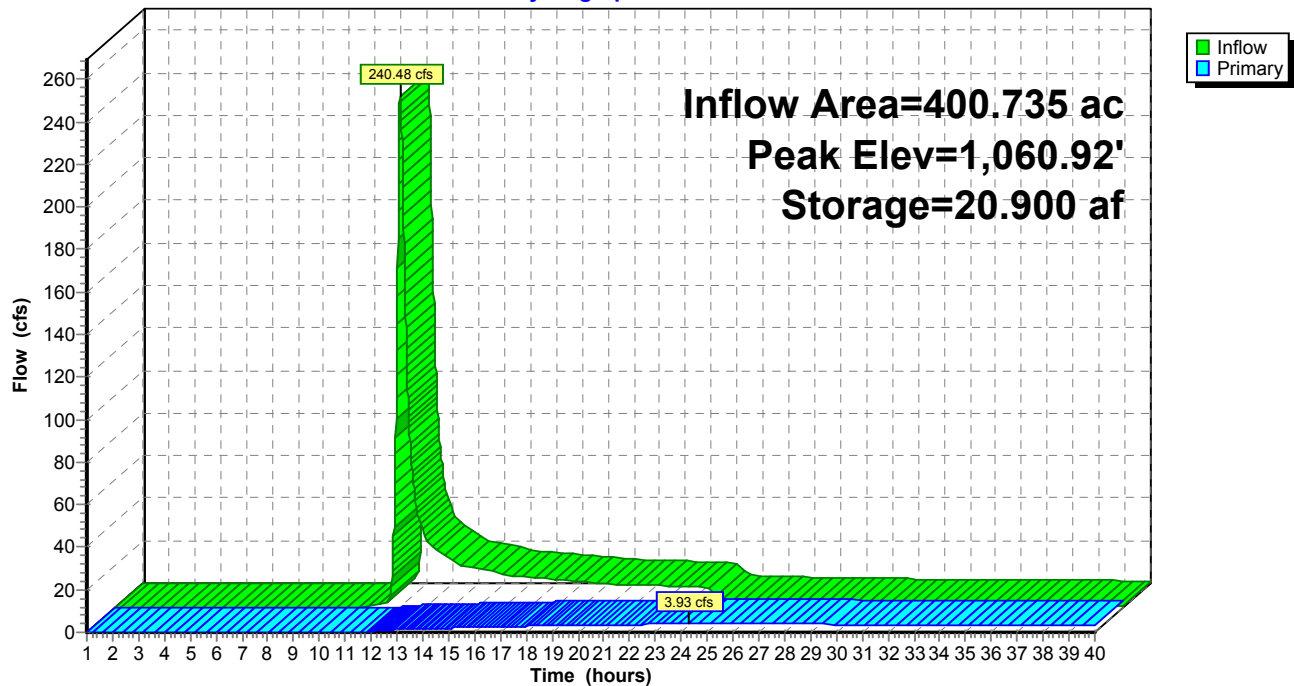
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	169.300	0.000	0.000
1,062.00	172.500	205.080	205.080

Device	Routing	Invert	Outlet Devices
#1	Primary	1,060.80'	50.0' long x 1.2' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.66 2.69 2.71 2.78 2.89 2.99 3.09 3.20 3.21 3.19 3.30 3.32

Primary OutFlow Max=3.92 cfs @ 24.29 hrs HW=1,060.92' TW=1,060.89' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 3.92 cfs @ 0.6 fps)

Pond PIKE: PIKE LAKE

Hydrograph



Pond South Twin Lake: SOUTH TWIN LAKE

Inflow Area = 693.705 ac, Inflow Depth > 0.37" for 5-yr event
 Inflow = 53.97 cfs @ 12.15 hrs, Volume= 21.111 af
 Outflow = 0.24 cfs @ 40.00 hrs, Volume= 0.311 af, Atten= 100%, Lag= 1,671.2 min
 Primary = 0.24 cfs @ 40.00 hrs, Volume= 0.311 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.06' @ 40.00 hrs Surf.Area= 76.756 ac Storage= 20.799 af
 Plug-Flow detention time= 1,128.6 min calculated for 0.311 af (1% of inflow)
 Center-of-Mass det. time= 608.4 min (1,803.6 - 1,195.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,059.80'	321.440 af	Custom Stage Data (Prismatic) Listed below

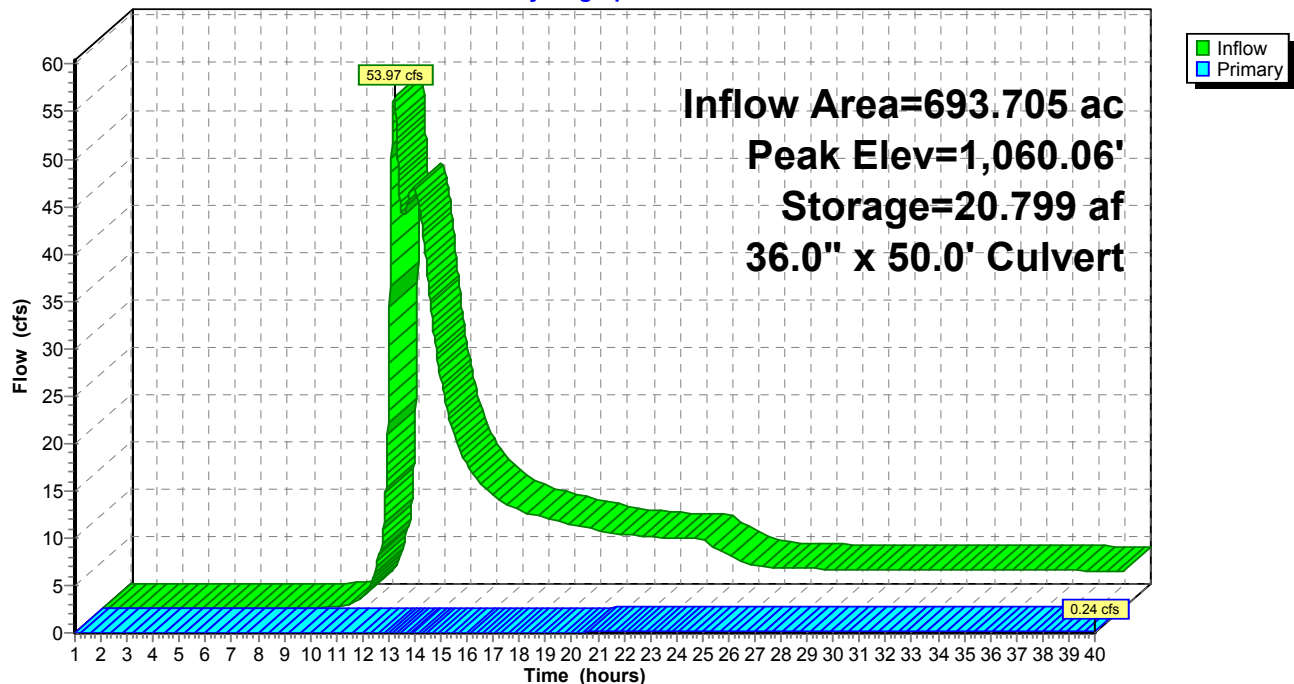
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,059.80	76.220	0.000	0.000
1,063.80	84.500	321.440	321.440

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	36.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.50' S= 0.0060 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.24 cfs @ 40.00 hrs HW=1,060.06' TW=0.00' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.24 cfs @ 1.2 fps)

Pond South Twin Lake: SOUTH TWIN LAKE

Hydrograph



Subcatchment A1: A1

Runoff = 32.75 cfs @ 12.36 hrs, Volume= 4.053 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

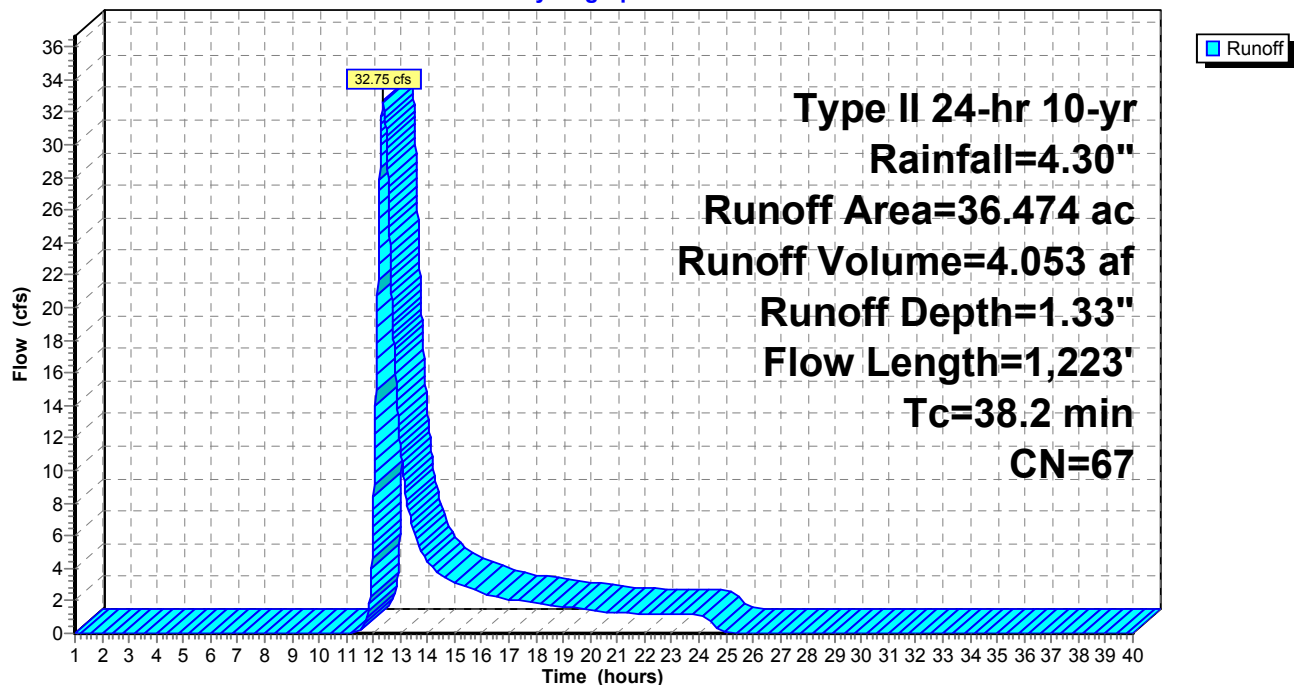
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
36.474	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	1,223	0.0200	0.5		Lag/CN Method,

Subcatchment A1: A1

Hydrograph



Subcatchment A10: A10

Runoff = 23.50 cfs @ 11.99 hrs, Volume= 1.136 af, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

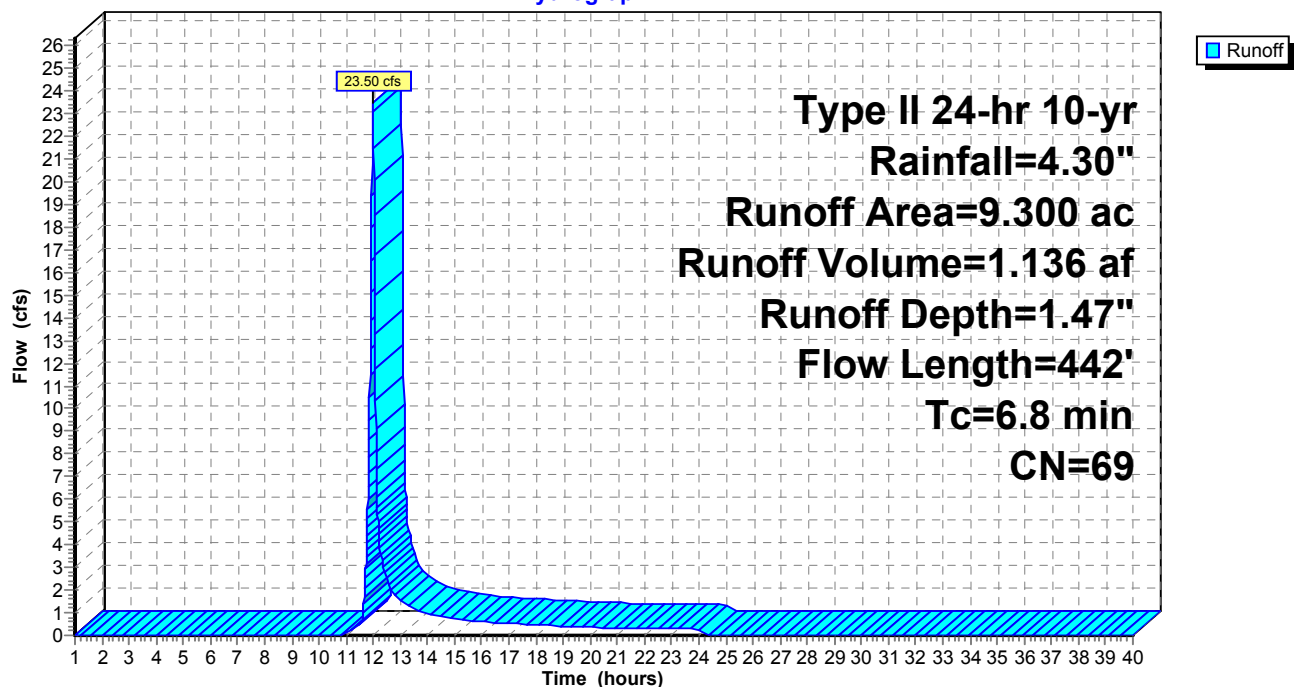
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.300	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	442	0.1100	1.1		Lag/CN Method,

Subcatchment A10: A10

Hydrograph



Subcatchment A11: A11

Runoff = 43.11 cfs @ 12.05 hrs, Volume= 2.563 af, Depth= 1.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

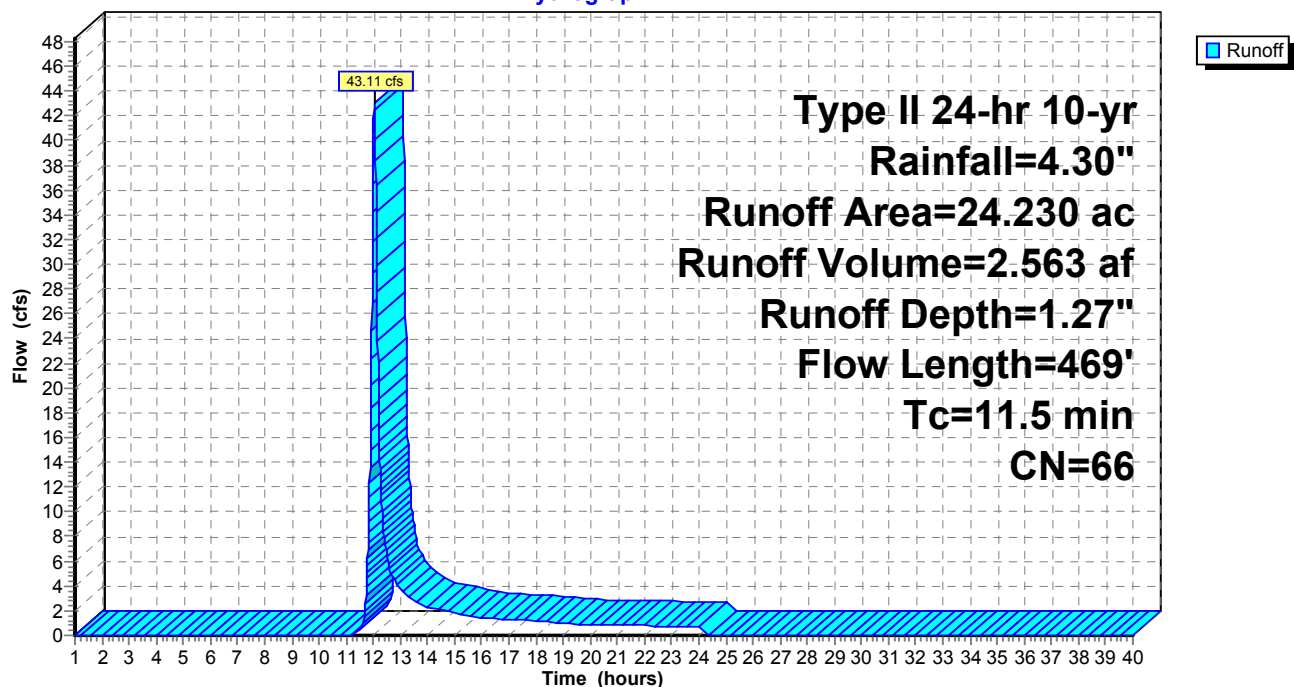
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
24.230	66	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	469	0.0500	0.7		Lag/CN Method,

Subcatchment A11: A11

Hydrograph



Subcatchment A12: A12

Runoff = 24.88 cfs @ 12.12 hrs, Volume= 1.940 af, Depth= 1.03"

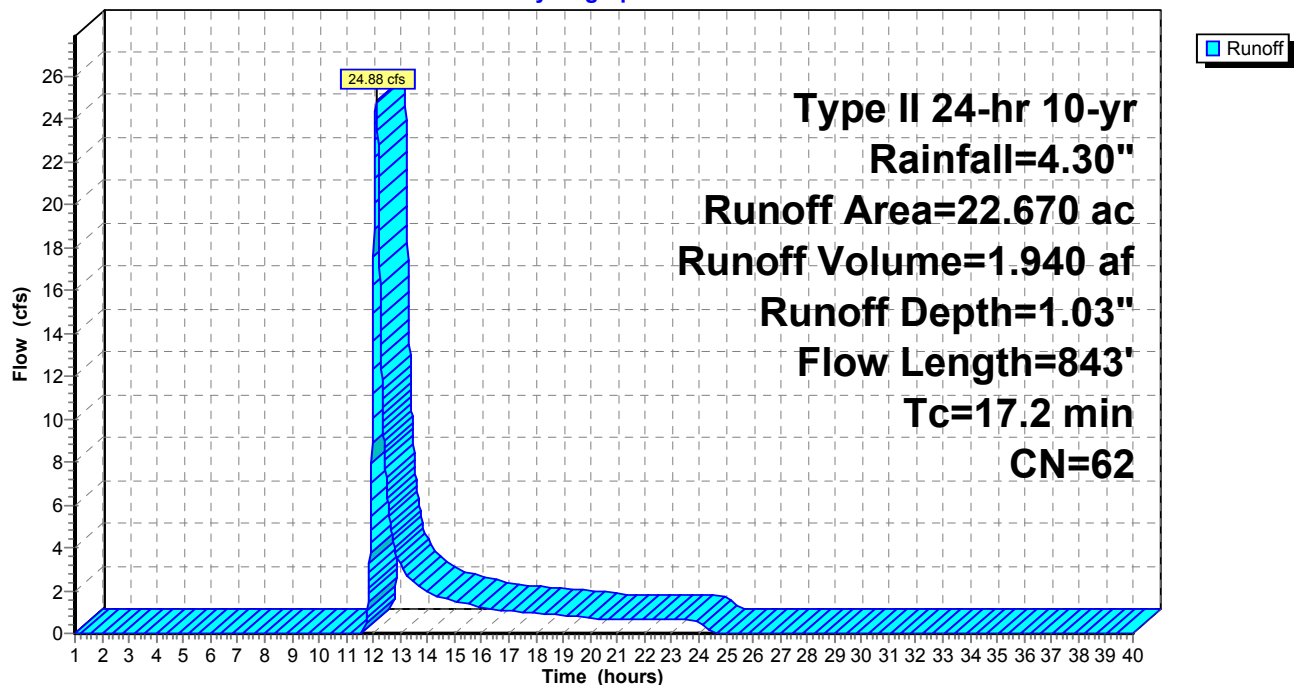
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
22.670	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	843	0.0700	0.8		Lag/CN Method,

Subcatchment A12: A12

Hydrograph



Subcatchment A13: A13

Runoff = 21.54 cfs @ 12.19 hrs, Volume= 2.108 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

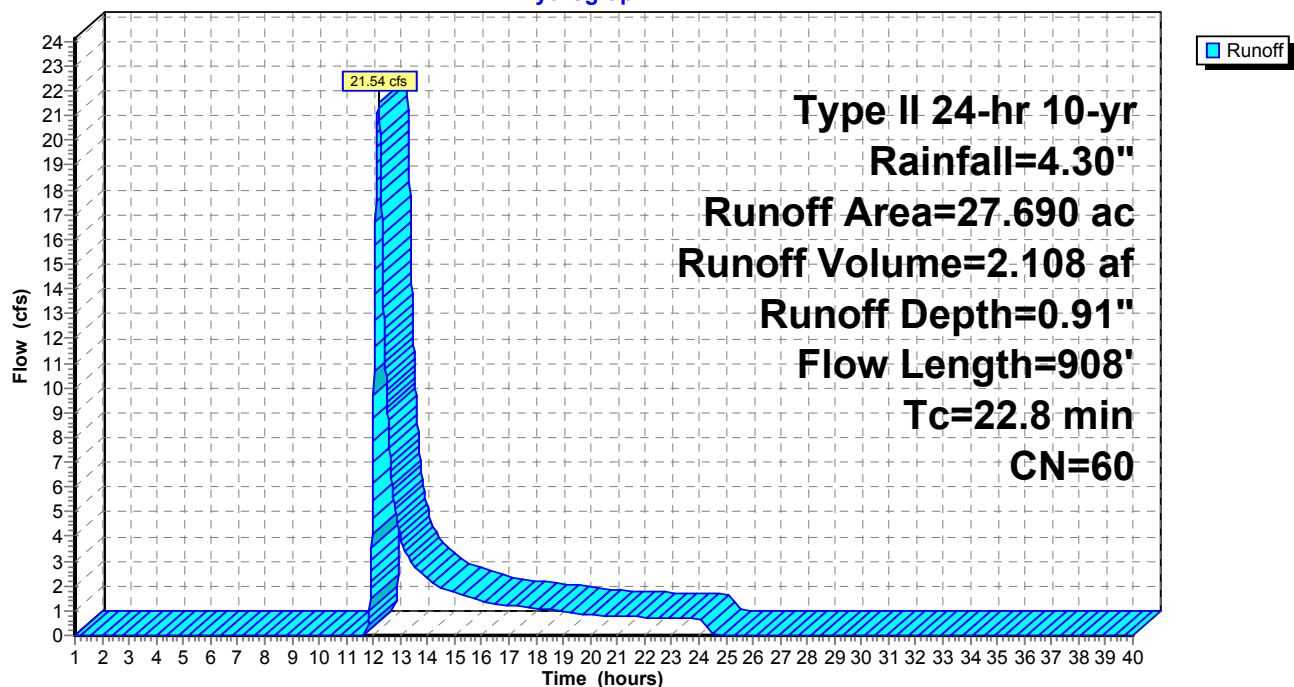
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
27.690	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	908	0.0500	0.7		Lag/CN Method,

Subcatchment A13: A13

Hydrograph



Subcatchment A2: A2

Runoff = 70.27 cfs @ 12.08 hrs, Volume= 4.722 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

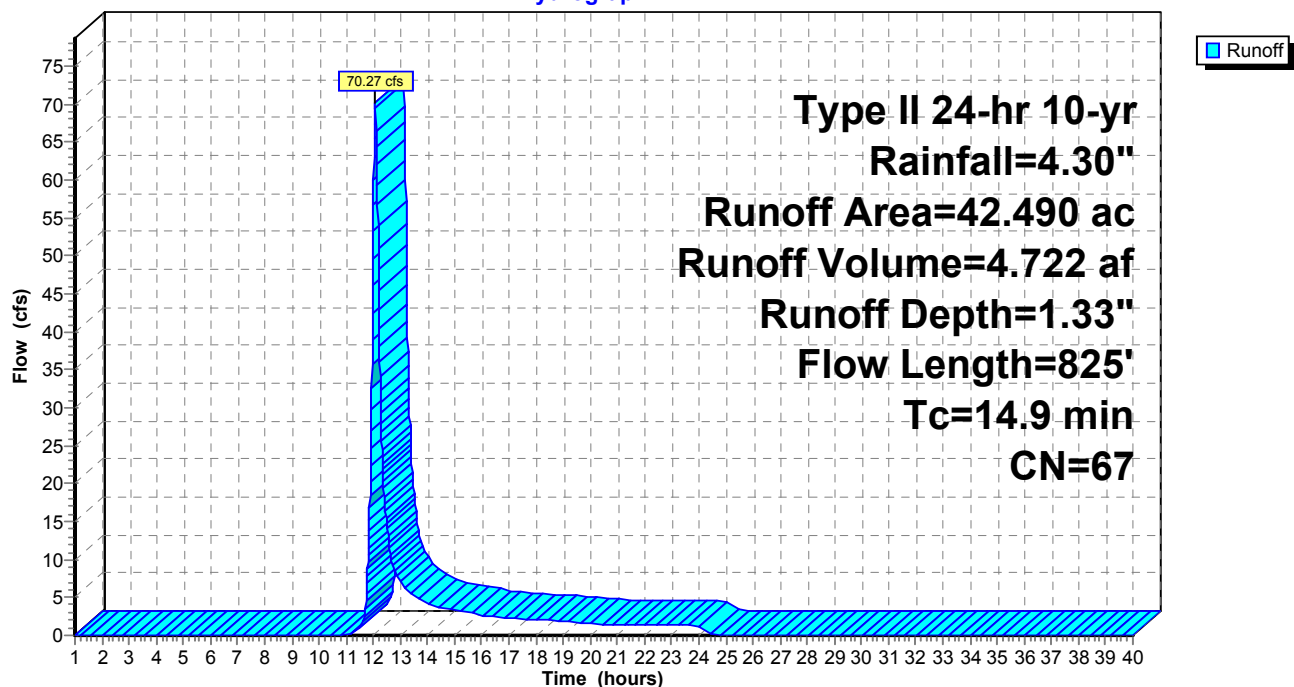
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
42.490	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	825	0.0700	0.9		Lag/CN Method,

Subcatchment A2: A2

Hydrograph



Subcatchment A3: A3

Runoff = 50.66 cfs @ 12.13 hrs, Volume= 3.850 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

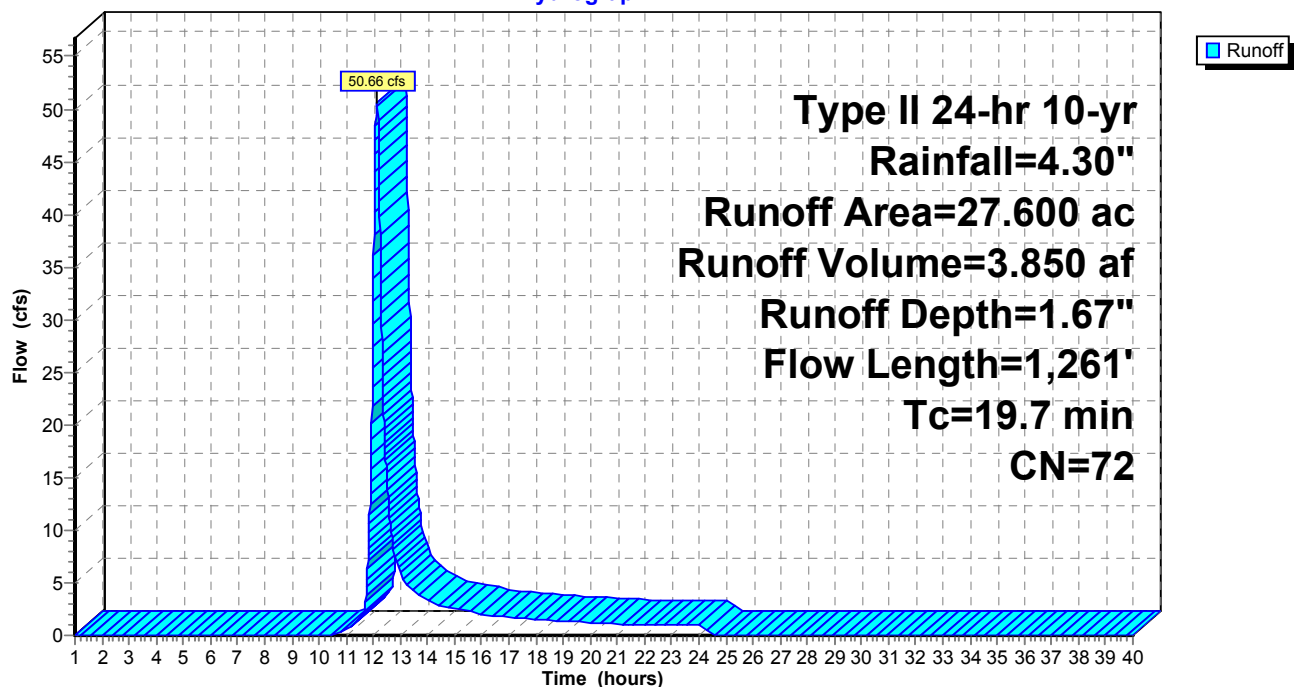
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
27.600	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	1,261	0.0600	1.1		Lag/CN Method,

Subcatchment A3: A3

Hydrograph



Subcatchment A4: A4

Runoff = 38.74 cfs @ 12.33 hrs, Volume= 4.345 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

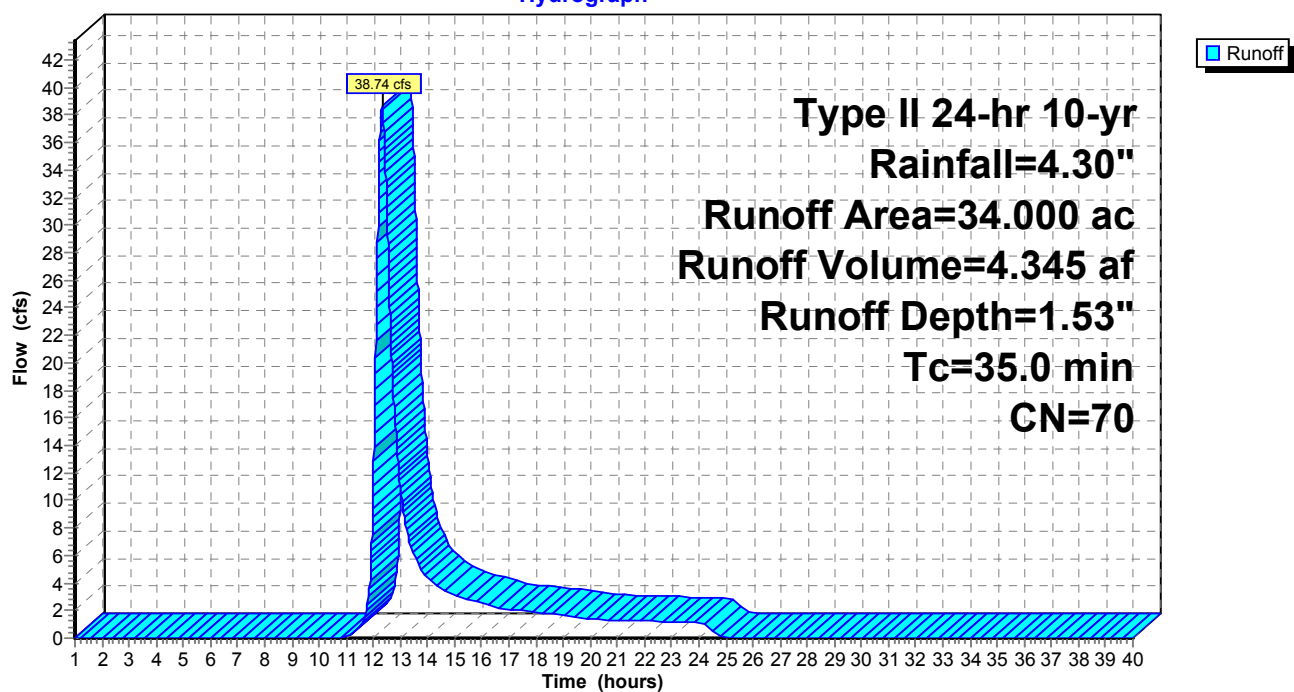
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.000	100	WATER
19.000	60	Woods, Fair, HSG B
10.000	74	Row crops, C + CR, Good, HSG B
34.000	70	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.0					Direct Entry,

Subcatchment A4: A4

Hydrograph



Subcatchment A5: A5

Runoff = 42.72 cfs @ 12.06 hrs, Volume= 2.633 af, Depth= 2.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

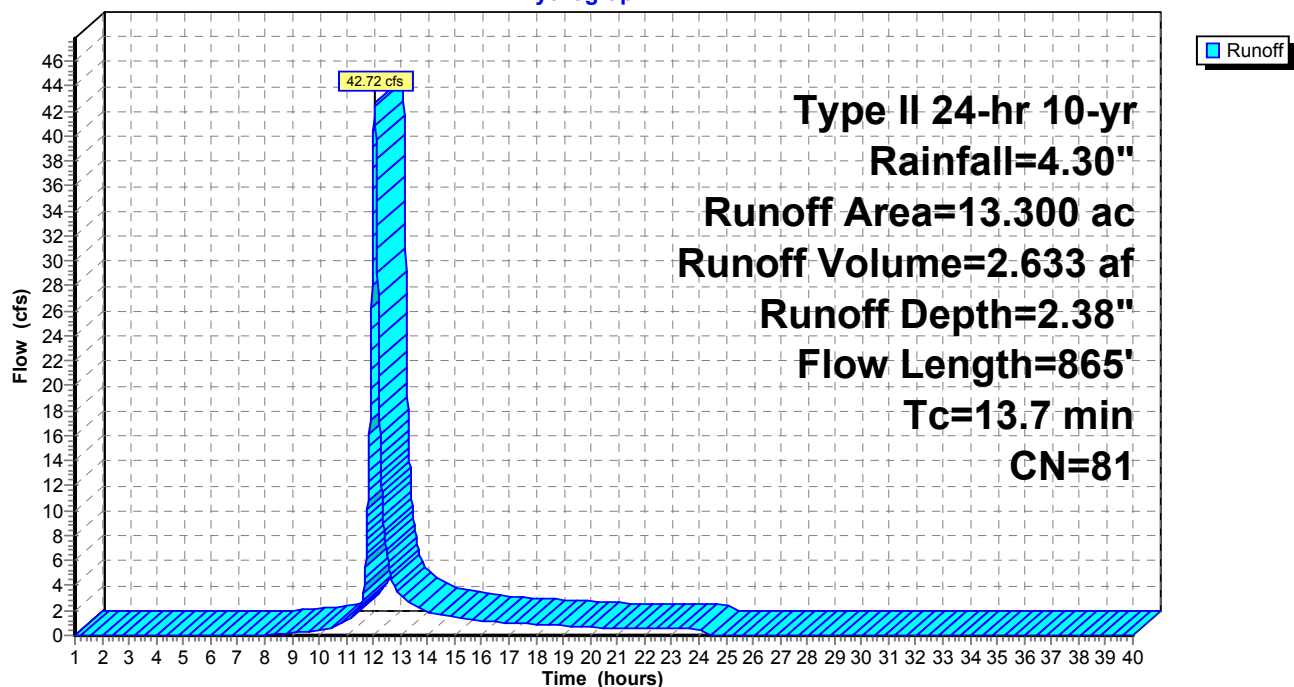
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
13.300	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	865	0.0400	1.1		Lag/CN Method,

Subcatchment A5: A5

Hydrograph



Subcatchment A6: A6

Runoff = 25.31 cfs @ 12.15 hrs, Volume= 2.025 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

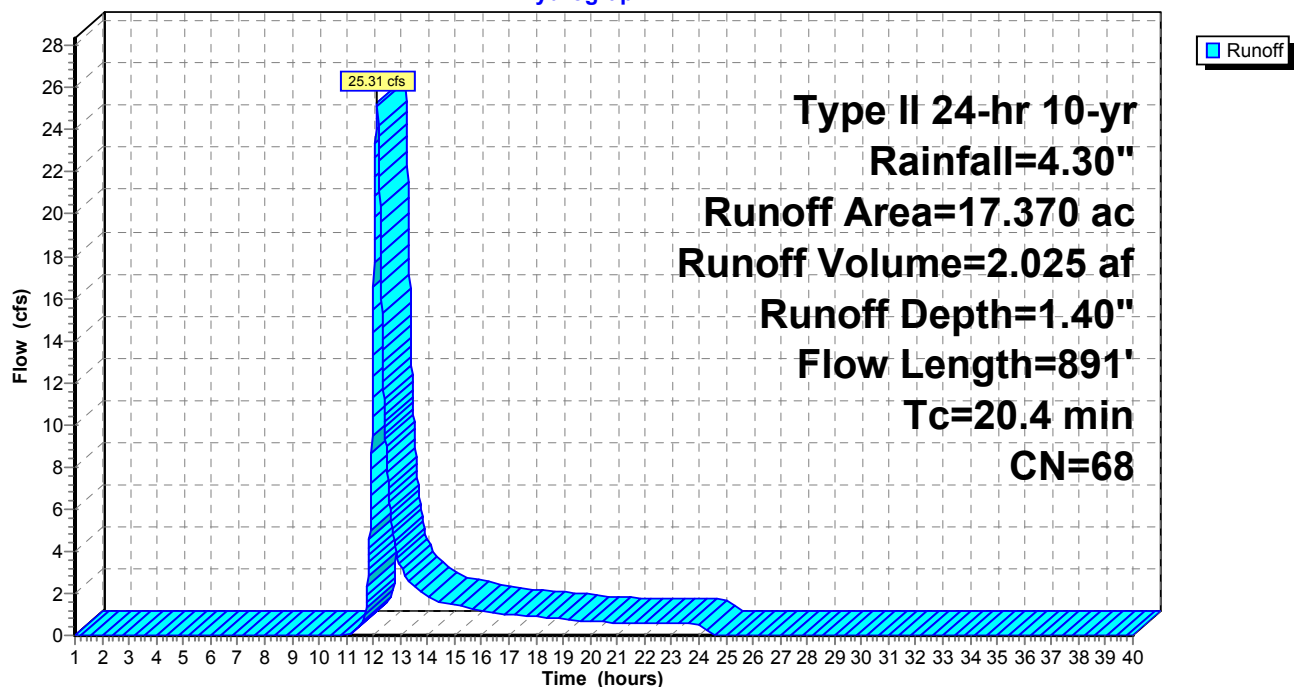
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
17.370	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	891	0.0400	0.7		Lag/CN Method,

Subcatchment A6: A6

Hydrograph



Subcatchment A7: A7

Runoff = 8.99 cfs @ 12.25 hrs, Volume= 1.073 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

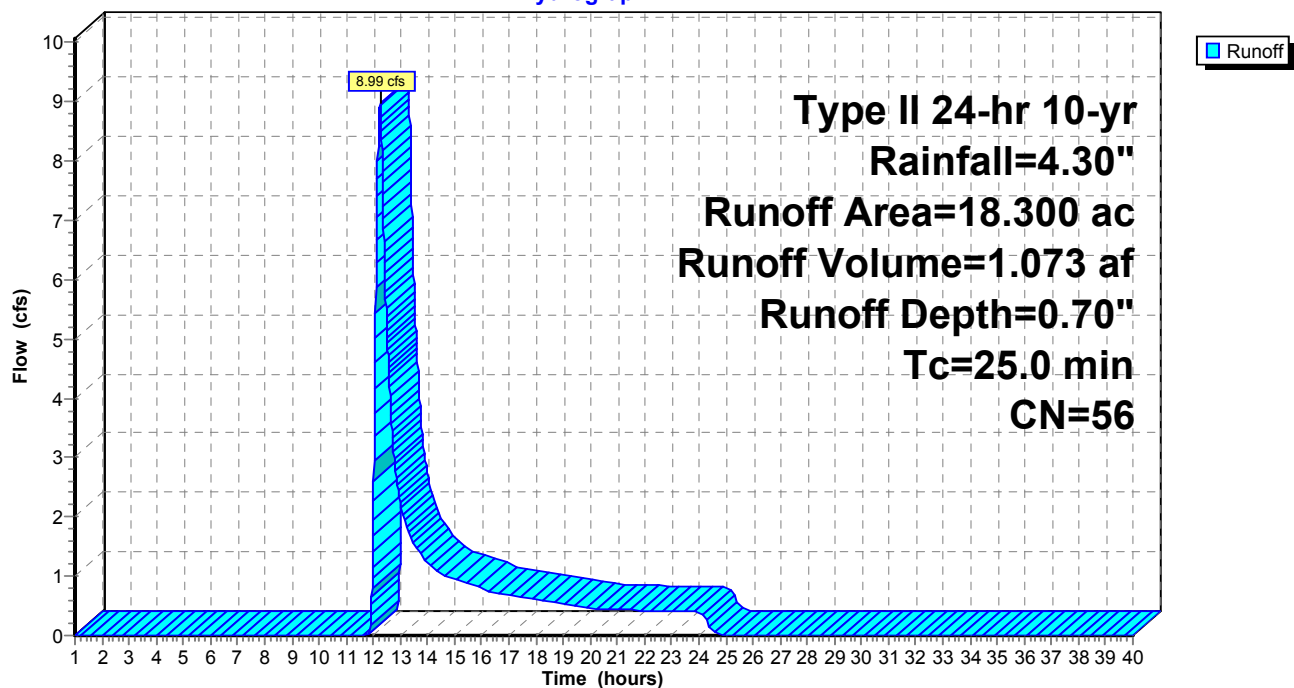
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
1.000	100	WATER
3.000	70	FARM
7.300	64	Row crops, C + CR, Good, HSG A
7.000	36	Woods, Fair, HSG A
18.300	56	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.0					Direct Entry,

Subcatchment A7: A7

Hydrograph



Subcatchment A9: A9

Runoff = 20.27 cfs @ 12.04 hrs, Volume= 1.324 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

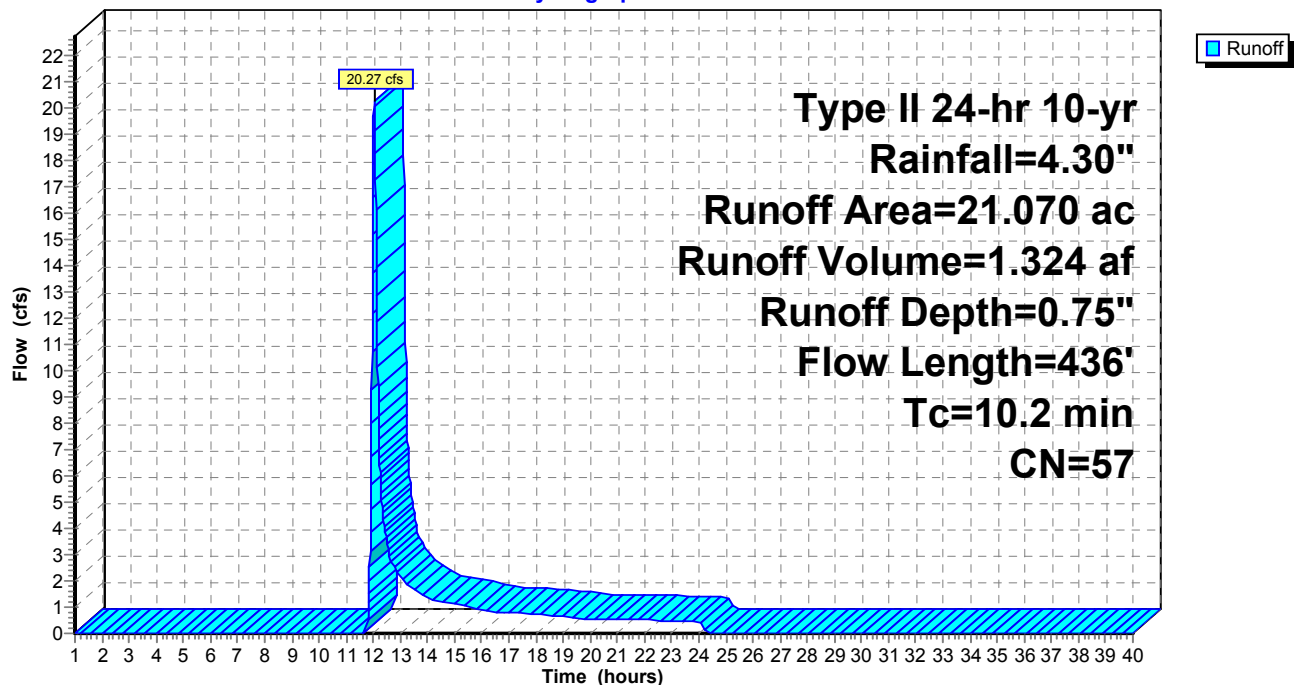
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
21.070	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	436	0.0900	0.7		Lag/CN Method,

Subcatchment A9: A9

Hydrograph



Subcatchment B1: B1

Runoff = 48.50 cfs @ 12.26 hrs, Volume= 5.009 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

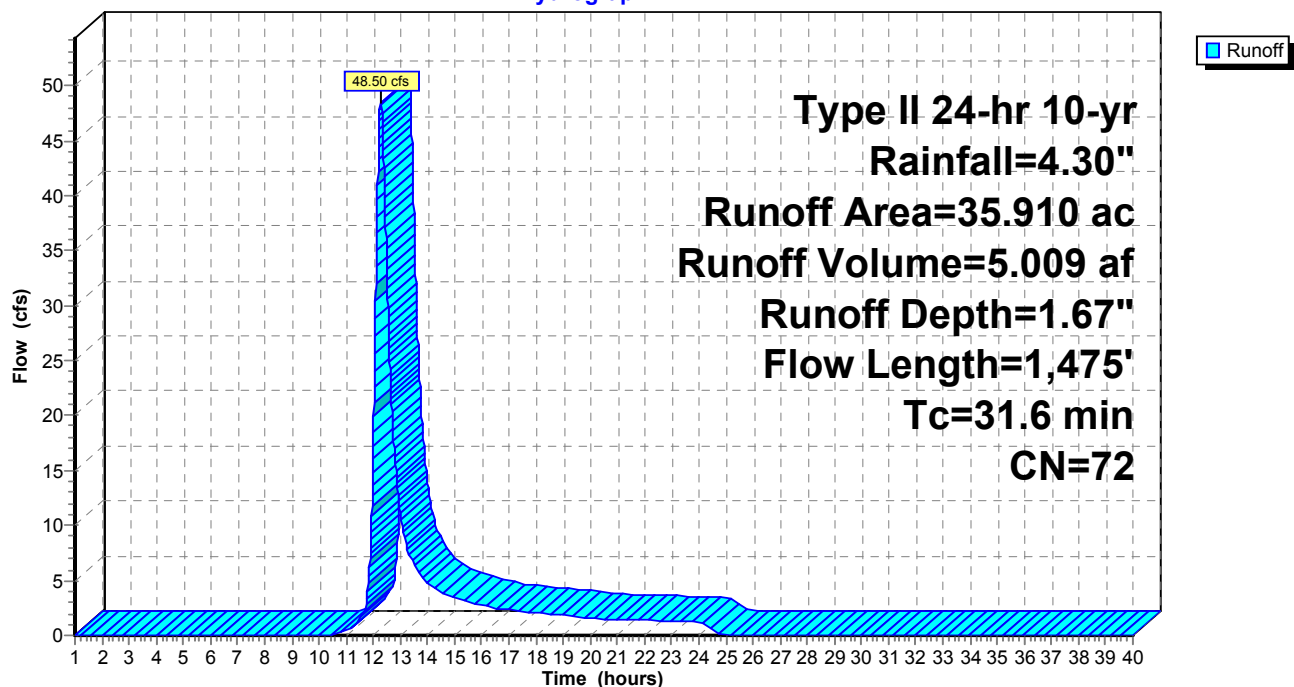
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
35.910	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.6	1,475	0.0300	0.8		Lag/CN Method,

Subcatchment B1: B1

Hydrograph



Subcatchment B10: B10

Runoff = 18.67 cfs @ 11.97 hrs, Volume= 0.835 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

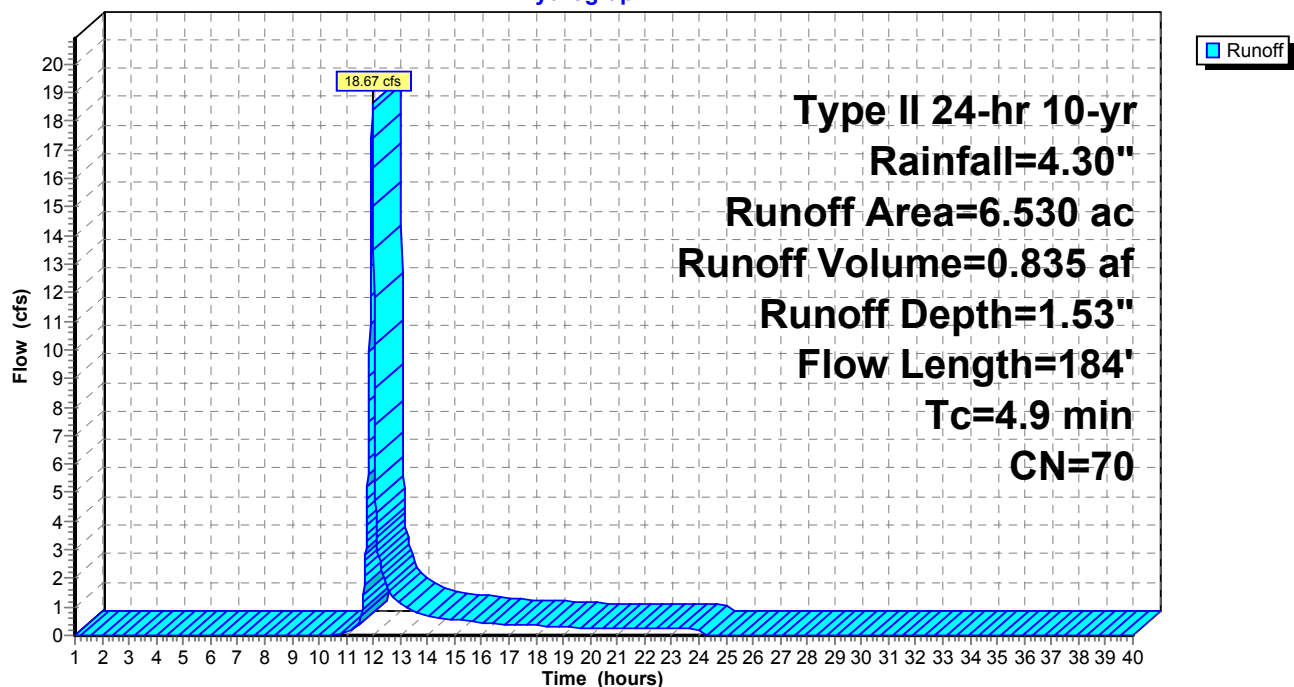
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
6.530	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	184	0.0500	0.6		Lag/CN Method,

Subcatchment B10: B10

Hydrograph



Subcatchment B11: B11

Runoff = 13.76 cfs @ 12.36 hrs, Volume= 1.603 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

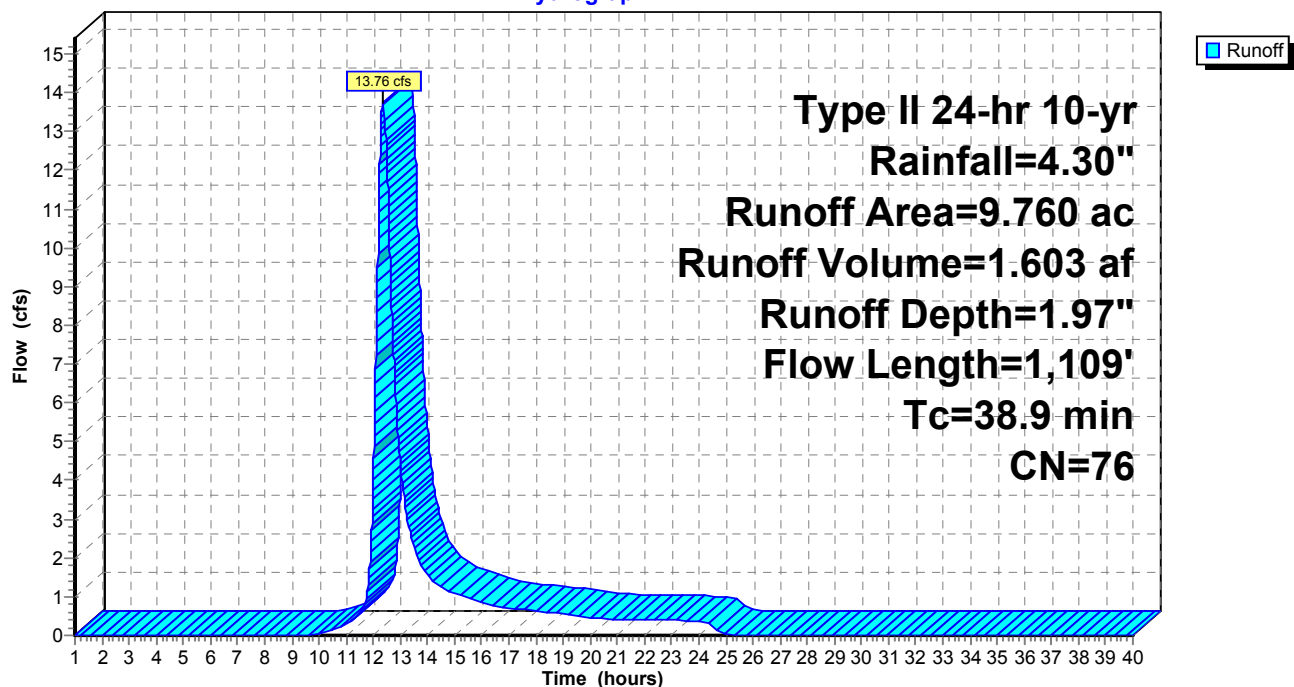
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.760	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.9	1,109	0.0100	0.5		Lag/CN Method,

Subcatchment B11: B11

Hydrograph



Subcatchment B12: B12

Runoff = 14.18 cfs @ 11.99 hrs, Volume= 0.718 af, Depth= 2.73"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

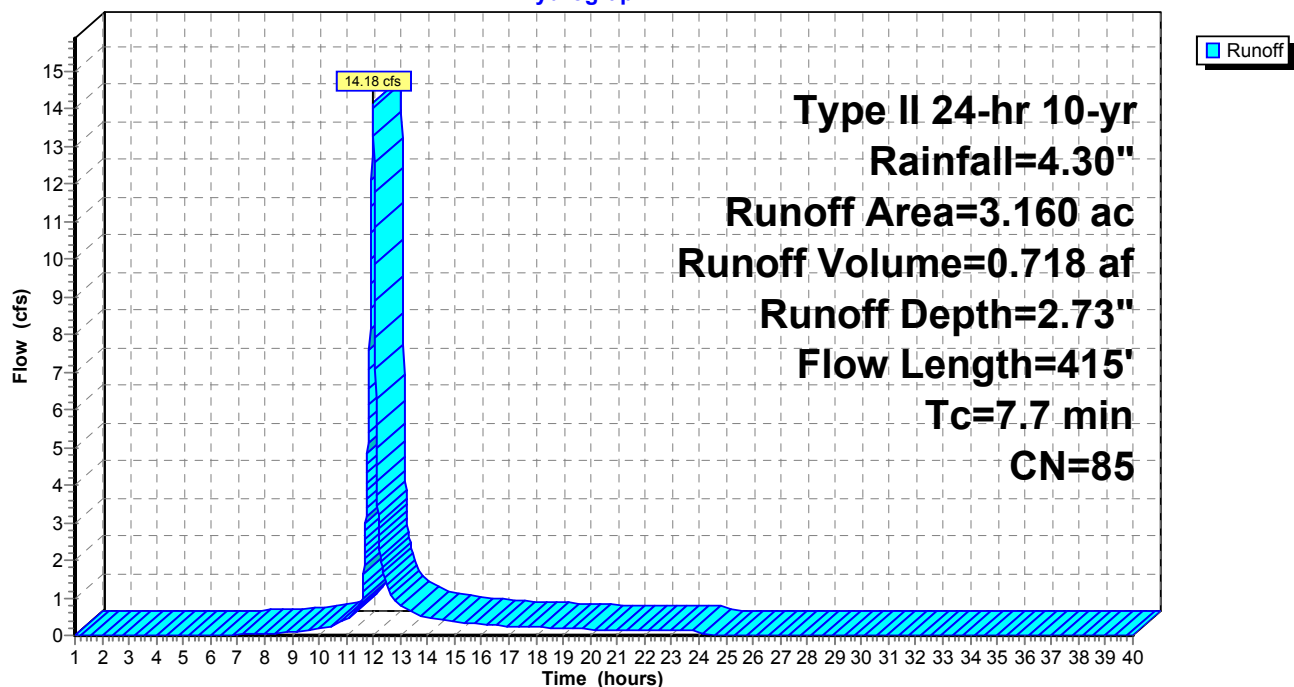
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
3.160	85	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	415	0.0300	0.9		Lag/CN Method,

Subcatchment B12: B12

Hydrograph



Subcatchment B13: B13

Runoff = 20.24 cfs @ 12.00 hrs, Volume= 1.037 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

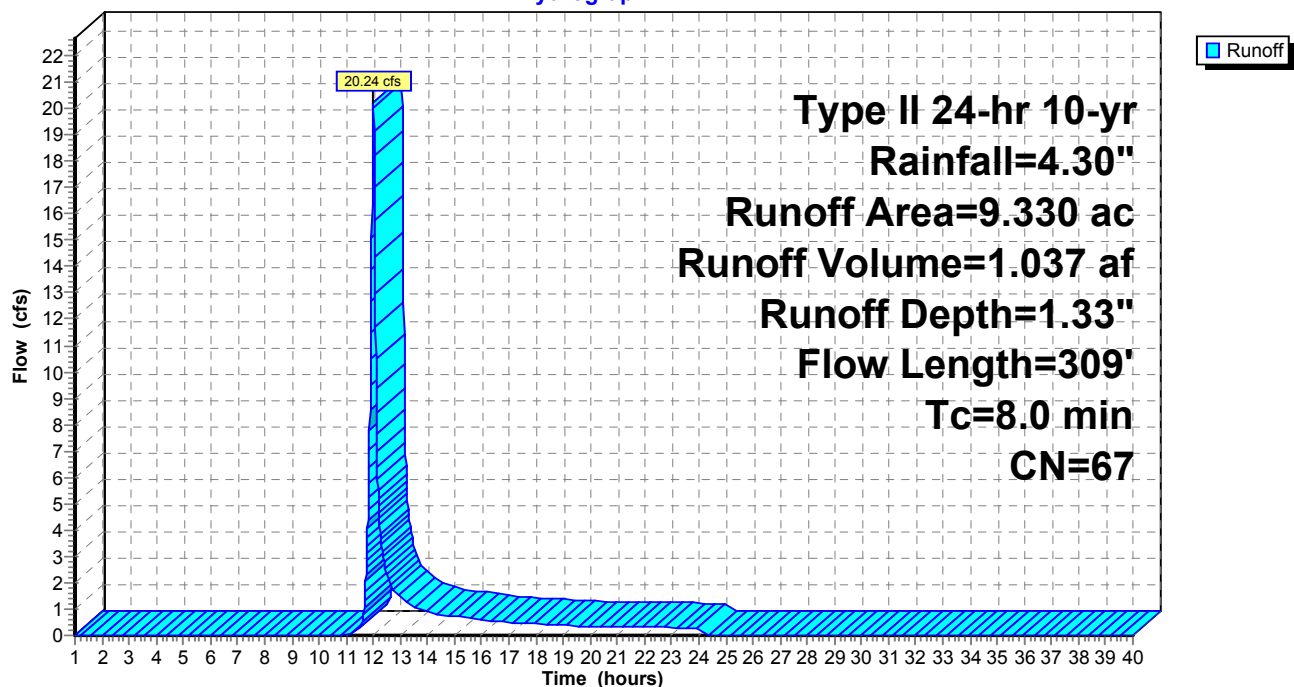
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.330	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	309	0.0500	0.6		Lag/CN Method,

Subcatchment B13: B13

Hydrograph



Subcatchment B2: B2

Runoff = 18.66 cfs @ 12.01 hrs, Volume= 1.006 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

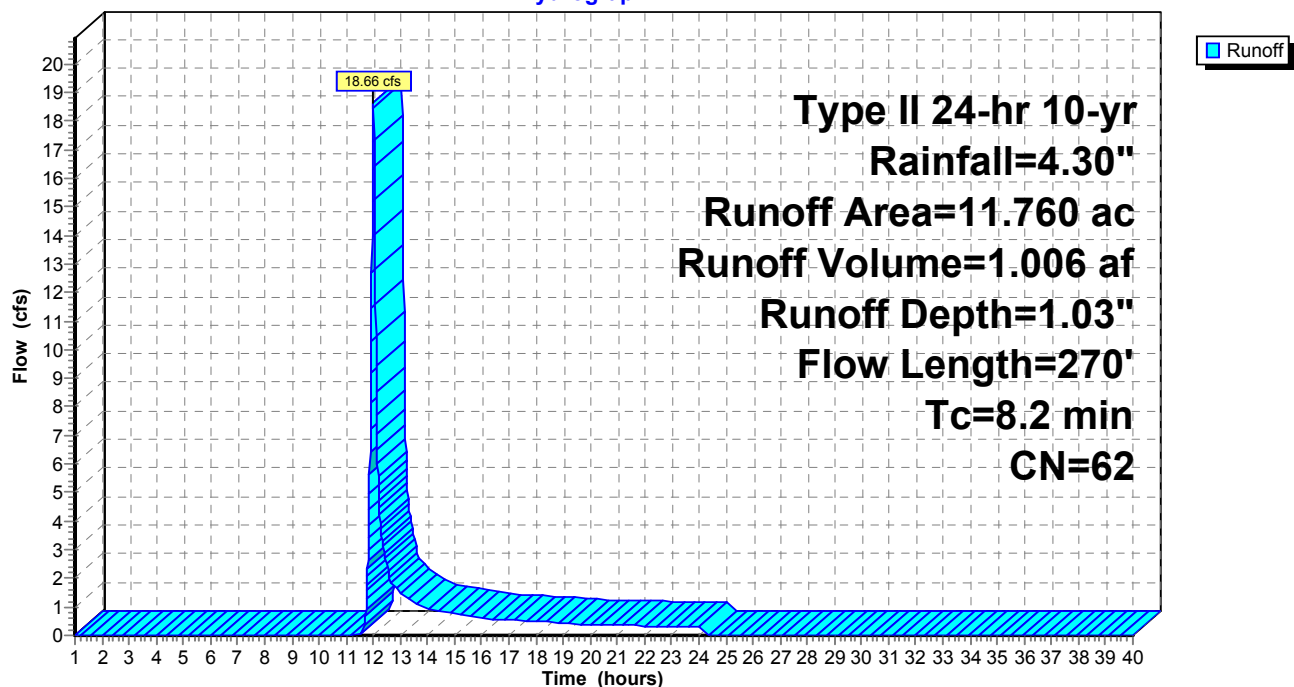
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
11.760	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	270	0.0500	0.5		Lag/CN Method,

Subcatchment B2: B2

Hydrograph



Subcatchment B3: B3

Runoff = 25.30 cfs @ 11.96 hrs, Volume= 1.098 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

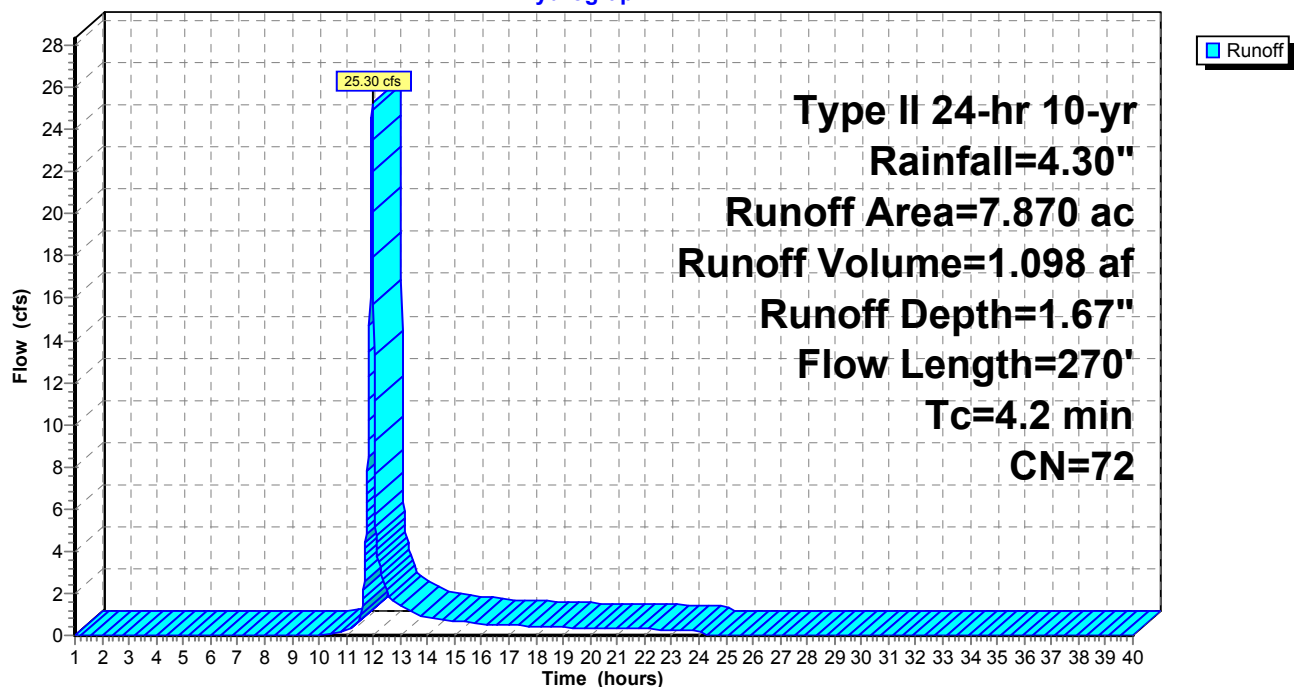
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.870	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	270	0.1100	1.1		Lag/CN Method,

Subcatchment B3: B3

Hydrograph



Subcatchment B4: B4

Runoff = 4.81 cfs @ 12.34 hrs, Volume= 0.607 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

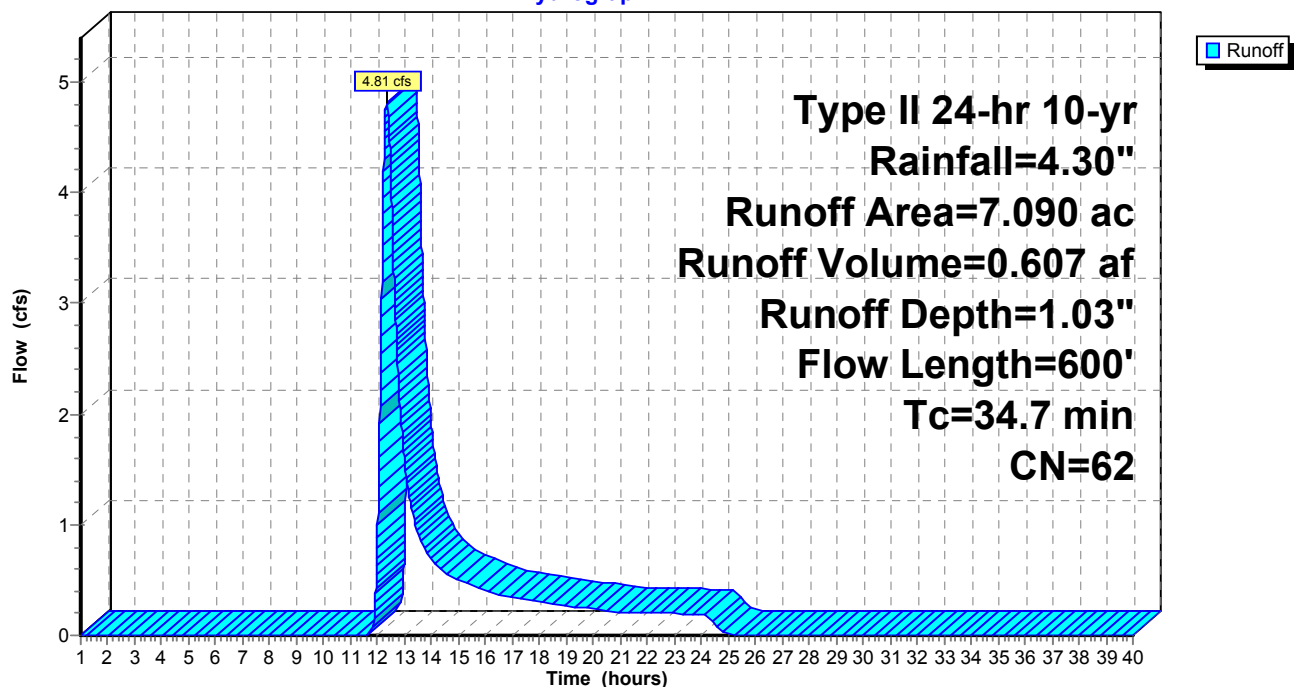
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.090	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.7	600	0.0100	0.3		Lag/CN Method,

Subcatchment B4: B4

Hydrograph



Subcatchment B5: B5

Runoff = 63.96 cfs @ 12.03 hrs, Volume= 3.582 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

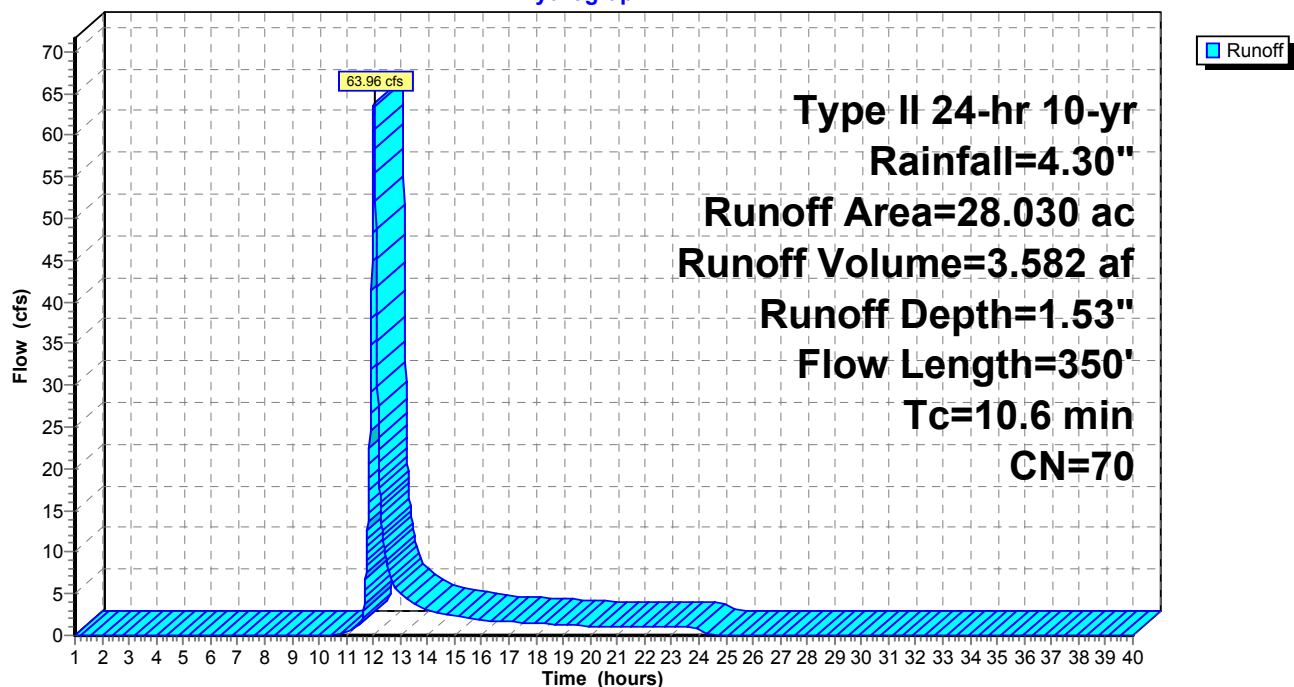
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
28.030	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	350	0.0300	0.6		Lag/CN Method,

Subcatchment B5: B5

Hydrograph



Subcatchment B6: B6

Runoff = 35.32 cfs @ 12.01 hrs, Volume= 1.873 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

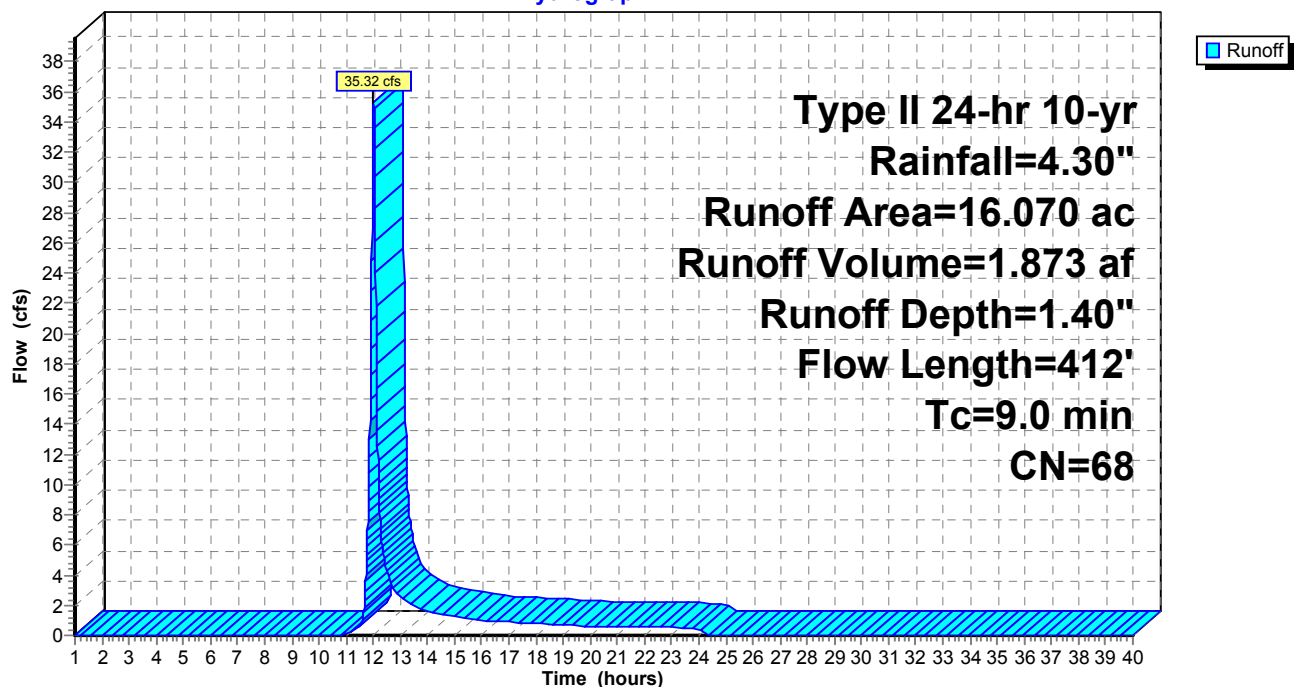
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
16.070	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	412	0.0600	0.8		Lag/CN Method,

Subcatchment B6: B6

Hydrograph



Subcatchment B7: B7

Runoff = 11.90 cfs @ 12.35 hrs, Volume= 1.469 af, Depth= 1.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

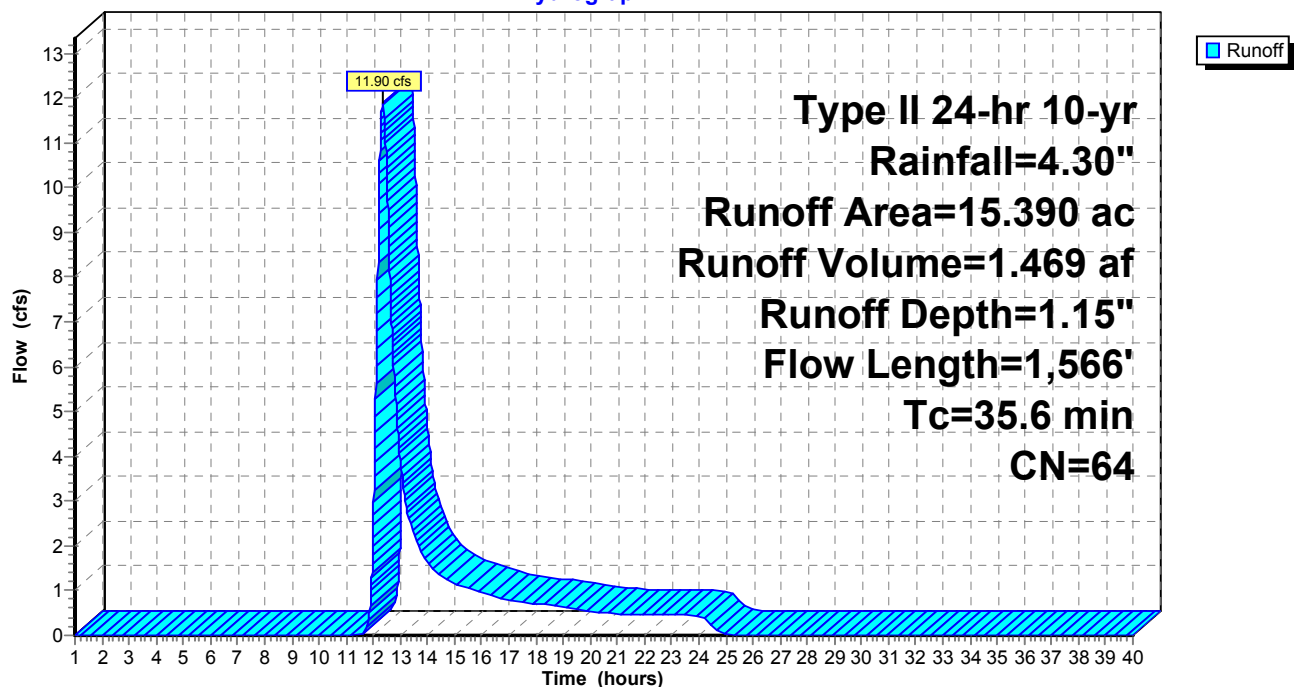
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
15.390	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.6	1,566	0.0400	0.7		Lag/CN Method,

Subcatchment B7: B7

Hydrograph



Subcatchment B8: B8

Runoff = 16.84 cfs @ 12.07 hrs, Volume= 1.053 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

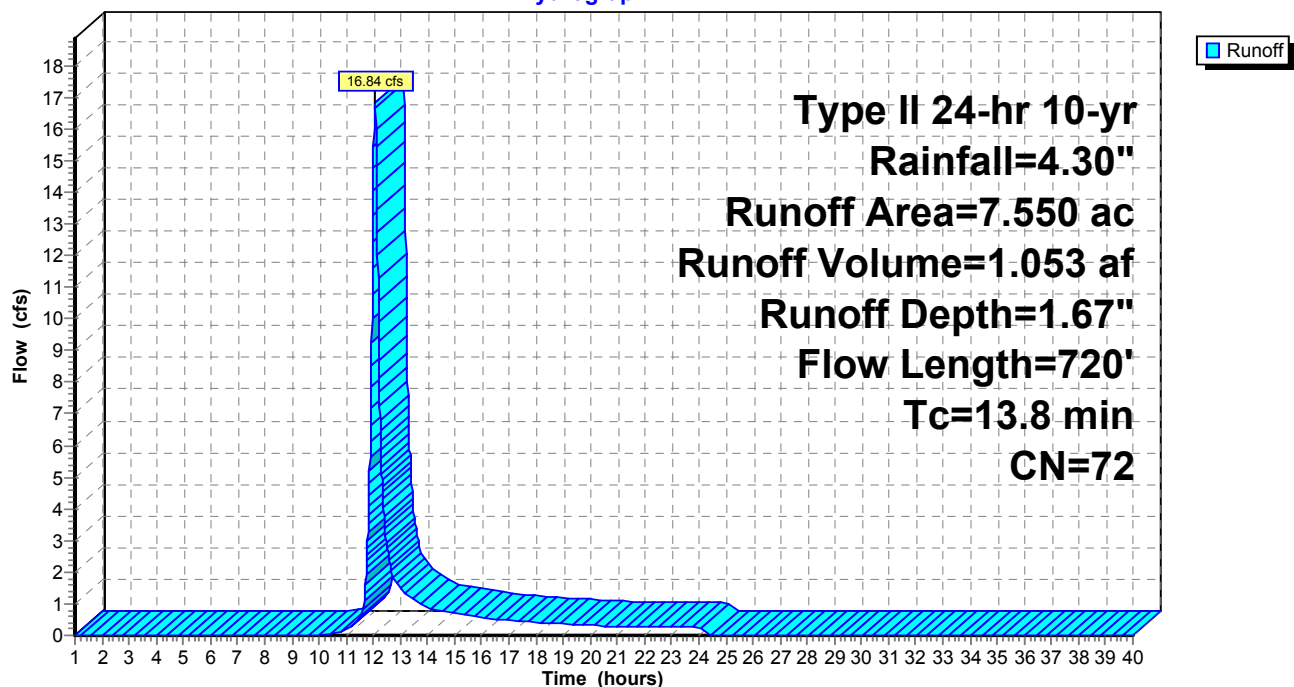
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.550	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	720	0.0500	0.9		Lag/CN Method,

Subcatchment B8: B8

Hydrograph



Subcatchment B9: B9

Runoff = 22.12 cfs @ 12.20 hrs, Volume= 2.054 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

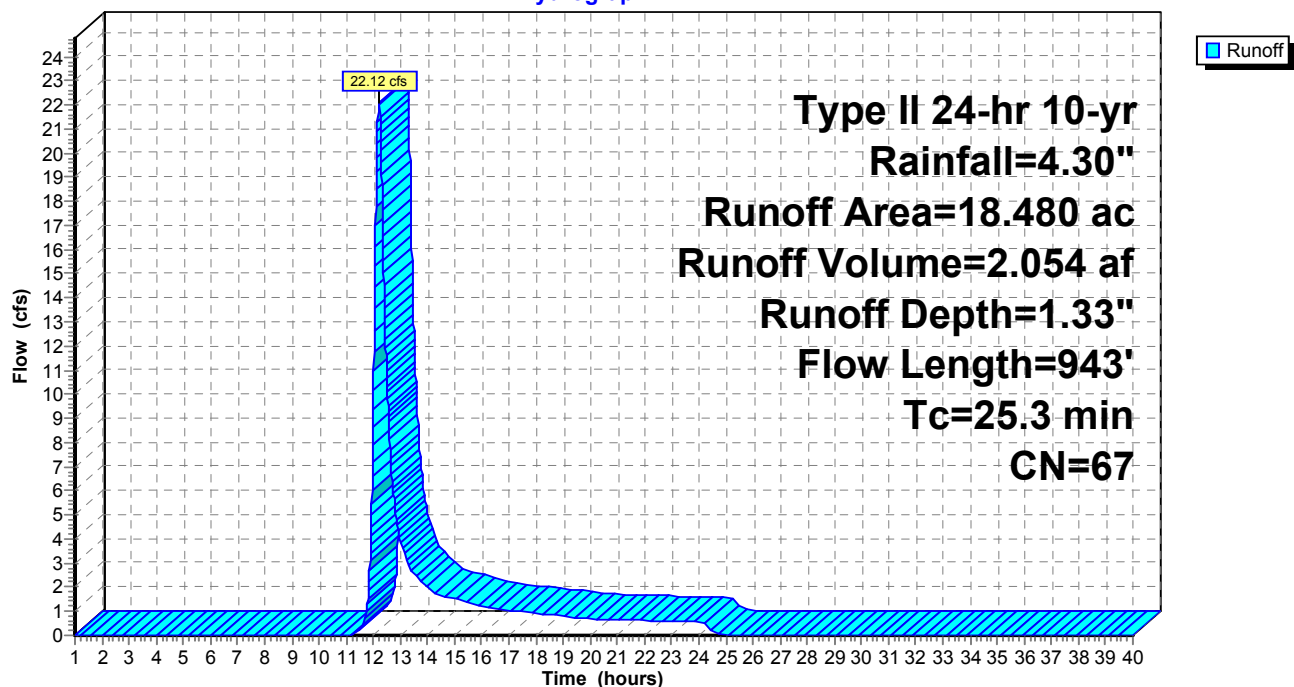
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.480	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	943	0.0300	0.6		Lag/CN Method,

Subcatchment B9: B9

Hydrograph



Subcatchment C1: C1

Runoff = 32.16 cfs @ 12.11 hrs, Volume= 2.280 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

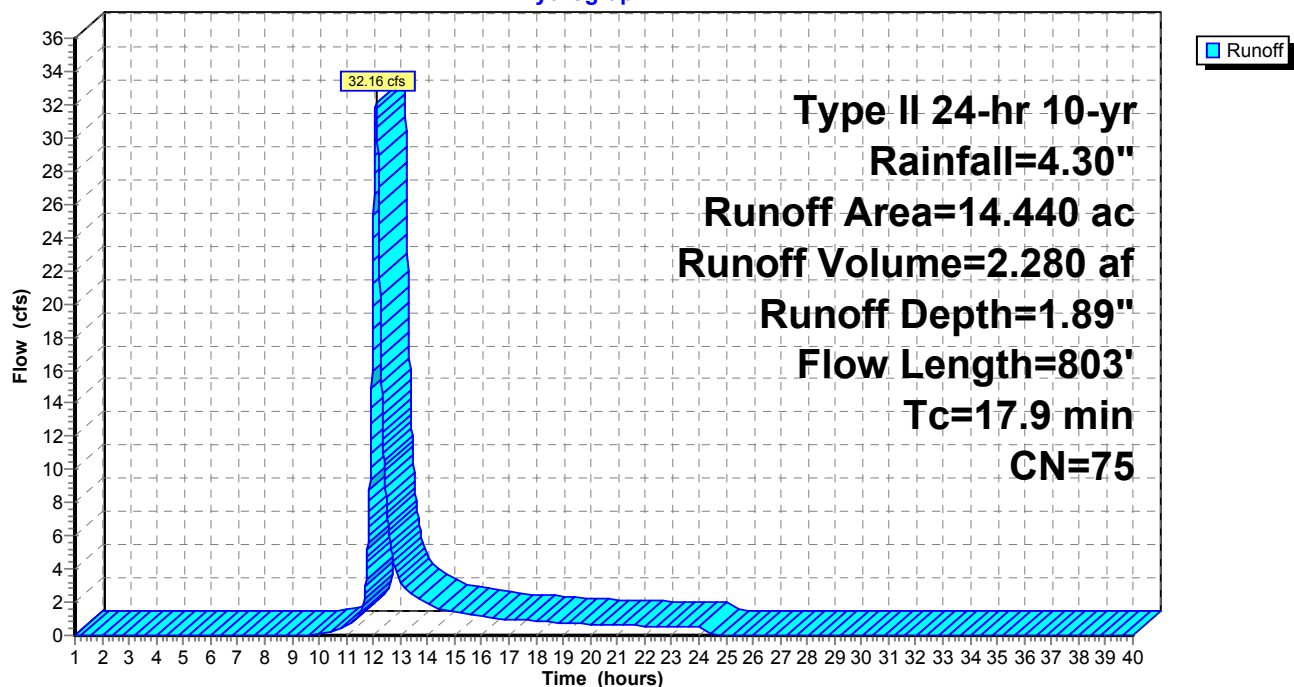
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
14.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.9	803	0.0300	0.7		Lag/CN Method,

Subcatchment C1: C1

Hydrograph



Subcatchment C3: C3

Runoff = 39.41 cfs @ 12.98 hrs, Volume= 8.043 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

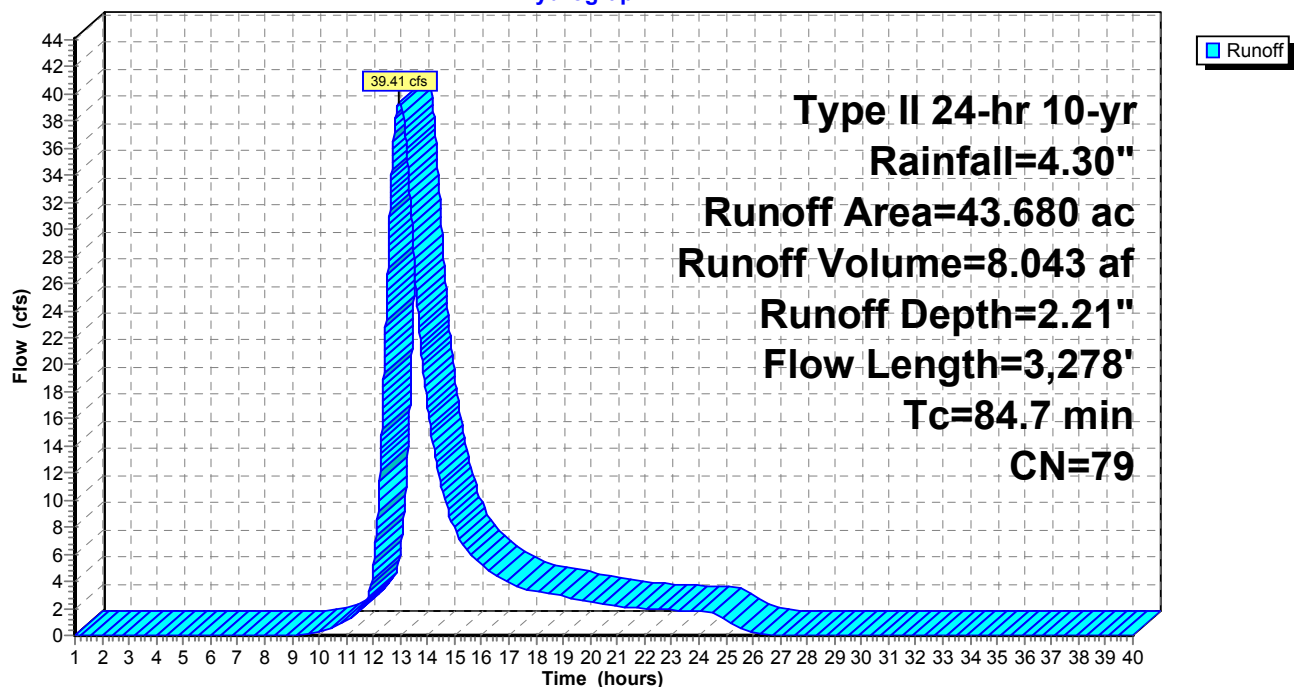
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
43.680	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
84.7	3,278	0.0100	0.6		Lag/CN Method,

Subcatchment C3: C3

Hydrograph



Subcatchment C4: C4

Runoff = 40.07 cfs @ 11.98 hrs, Volume= 1.916 af, Depth= 1.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

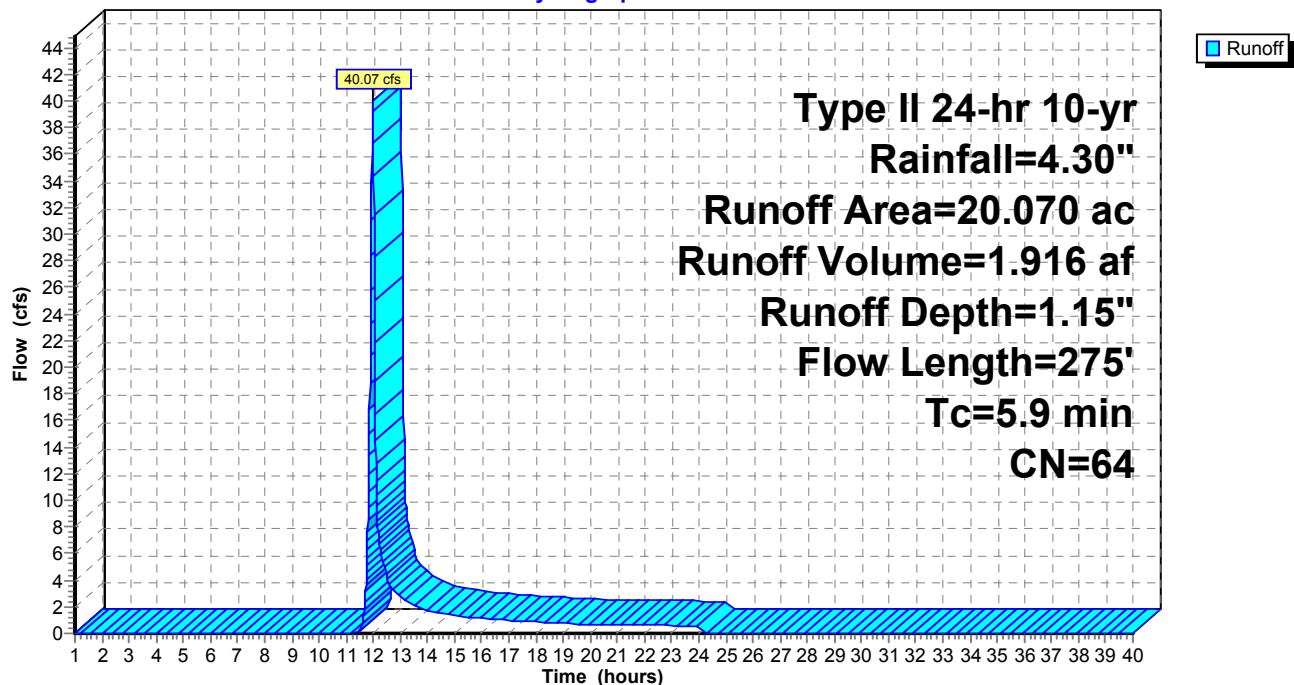
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
20.070	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	275	0.0900	0.8		Lag/CN Method,

Subcatchment C4: C4

Hydrograph



Subcatchment C5: C5

Runoff = 20.43 cfs @ 12.19 hrs, Volume= 1.828 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

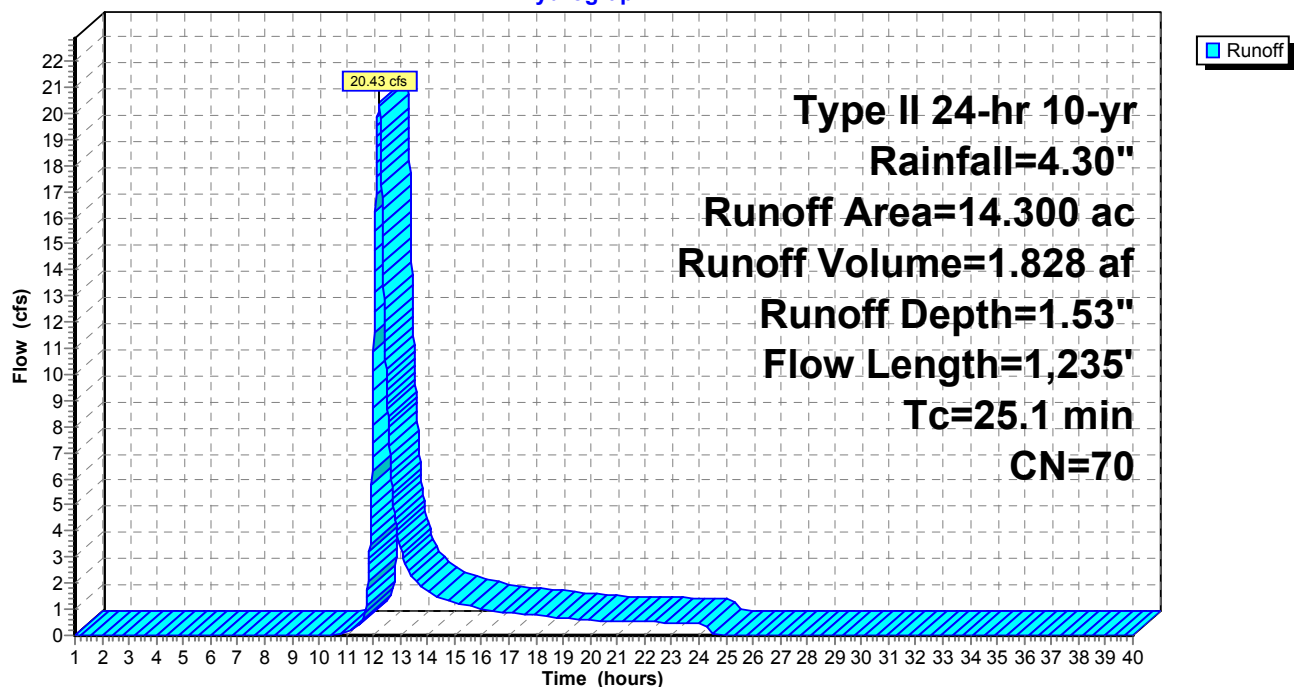
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
14.300	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,235	0.0400	0.8		Lag/CN Method,

Subcatchment C5: C5

Hydrograph



Subcatchment C6: C6

Runoff = 36.01 cfs @ 11.97 hrs, Volume= 1.644 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

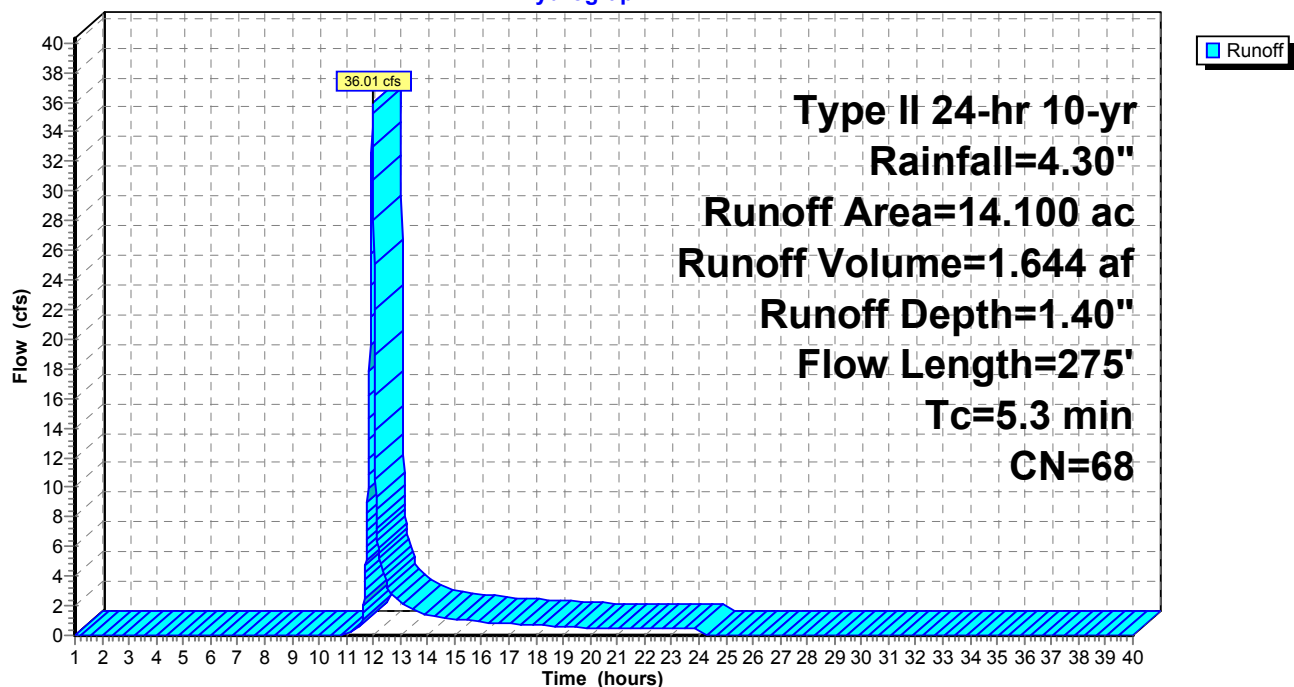
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
14.100	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	275	0.0900	0.9		Lag/CN Method,

Subcatchment C6: C6

Hydrograph



Subcatchment C7: C7

Runoff = 29.37 cfs @ 11.96 hrs, Volume= 1.304 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

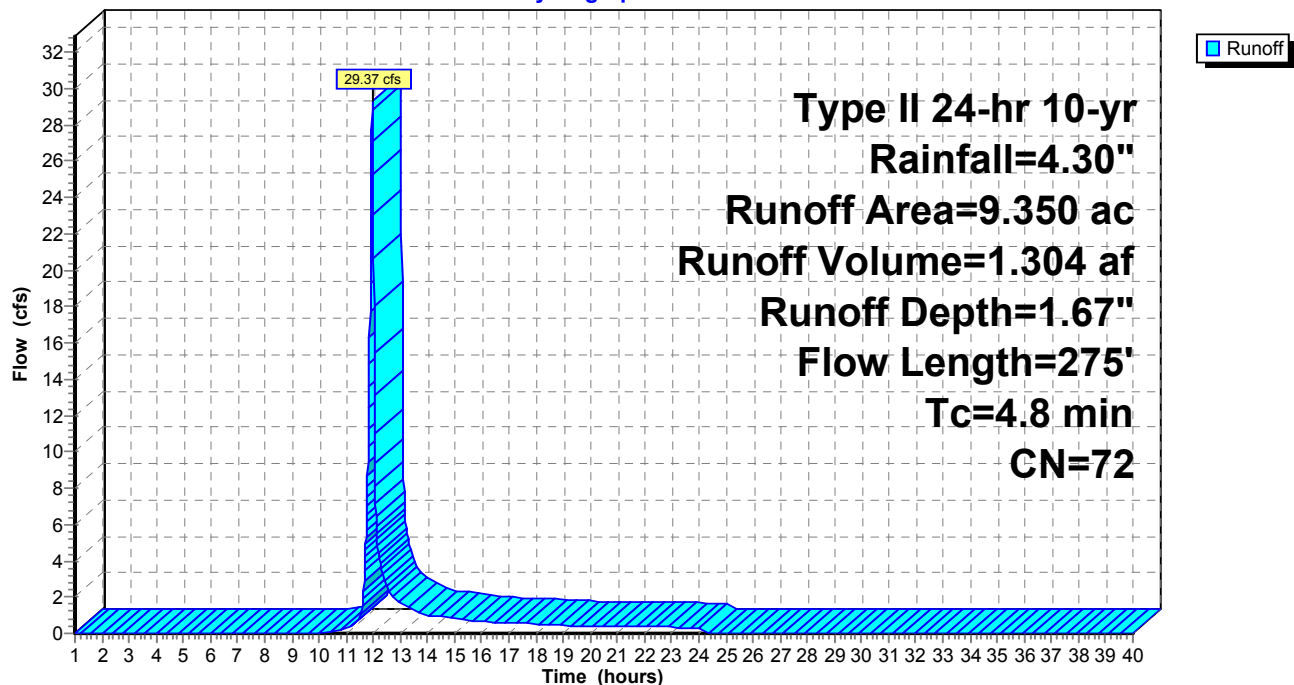
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.350	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	275	0.0900	1.0		Lag/CN Method,

Subcatchment C7: C7

Hydrograph



Subcatchment C8: C8

Runoff = 20.99 cfs @ 11.93 hrs, Volume= 0.859 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

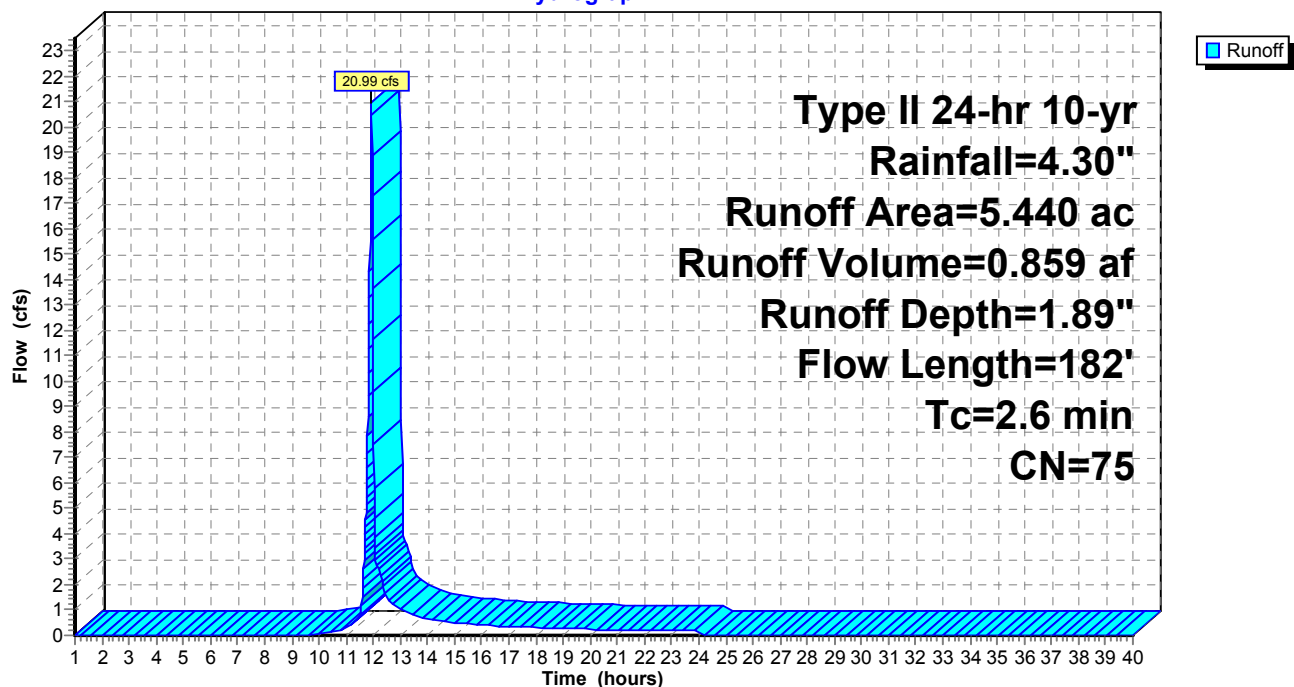
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	182	0.1300	1.2		Lag/CN Method,

Subcatchment C8: C8

Hydrograph



Subcatchment W100: W100

Runoff = 5.27 cfs @ 12.03 hrs, Volume= 0.294 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

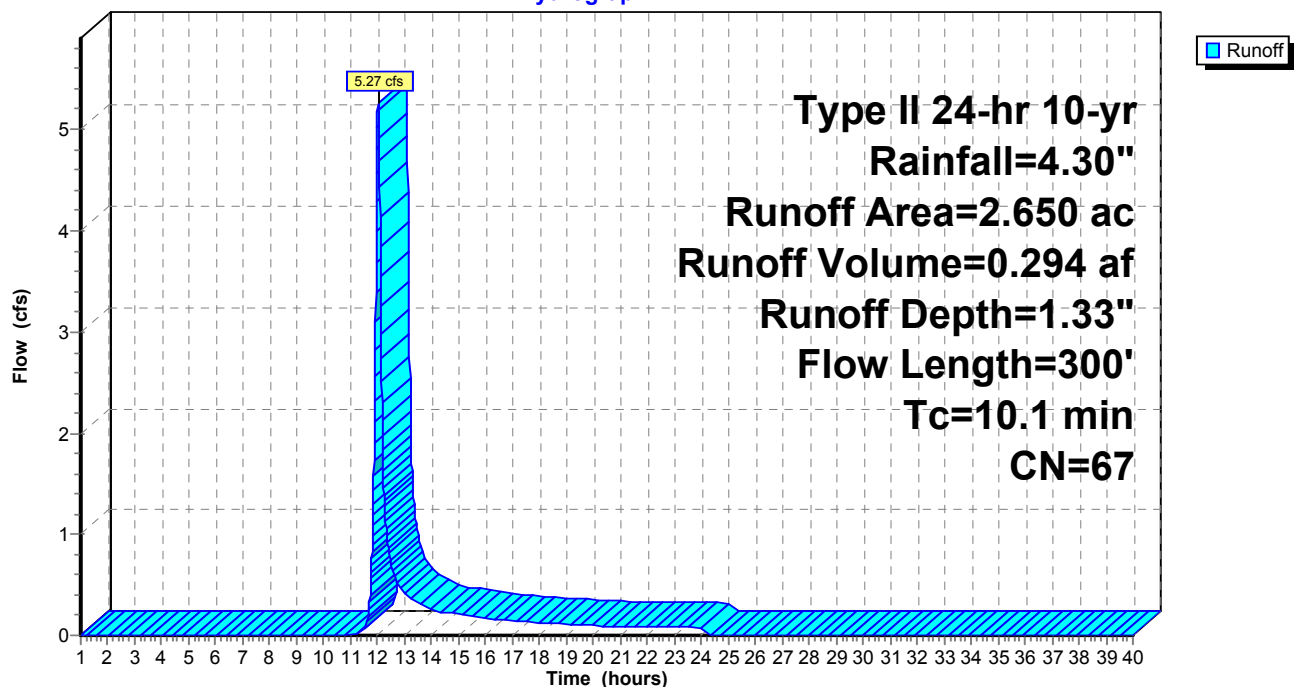
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
2.650	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	300	0.0300	0.5		Lag/CN Method,

Subcatchment W100: W100

Hydrograph



Subcatchment W101: W101

Runoff = 24.34 cfs @ 12.32 hrs, Volume= 2.775 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

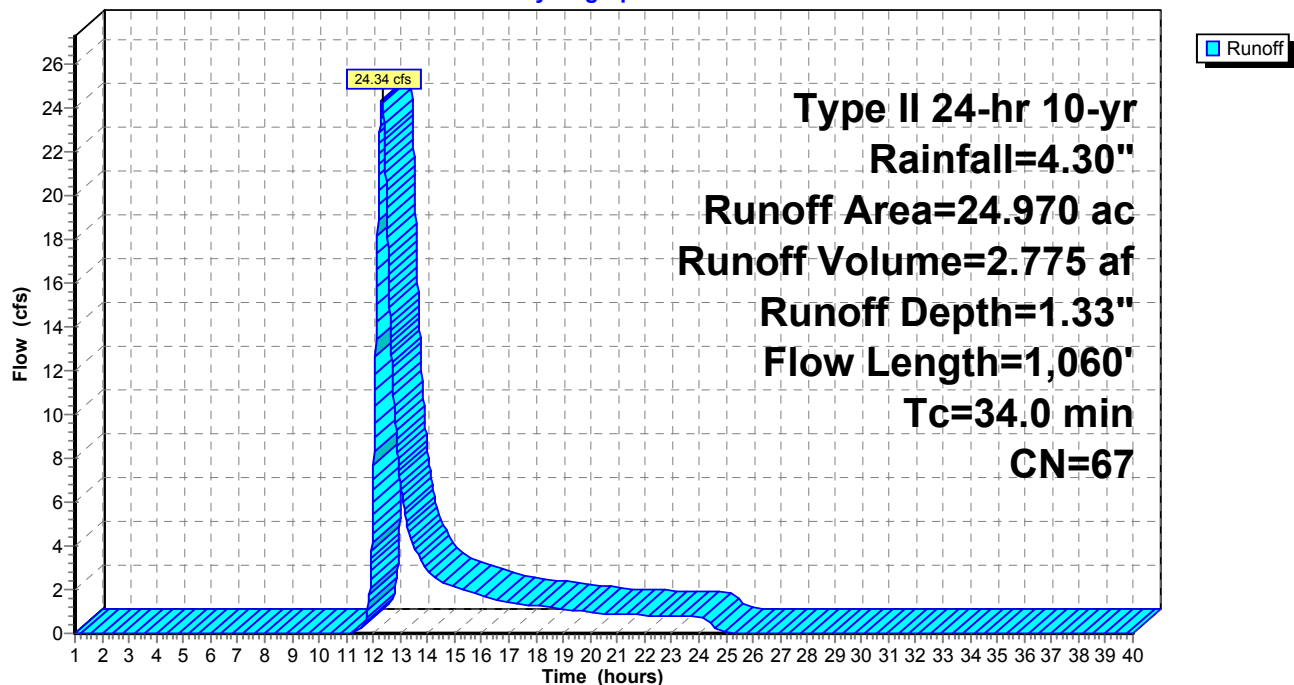
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
24.970	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.0	1,060	0.0200	0.5		Lag/CN Method,

Subcatchment W101: W101

Hydrograph



Subcatchment W102: W102

Runoff = 106.87 cfs @ 12.20 hrs, Volume= 9.378 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

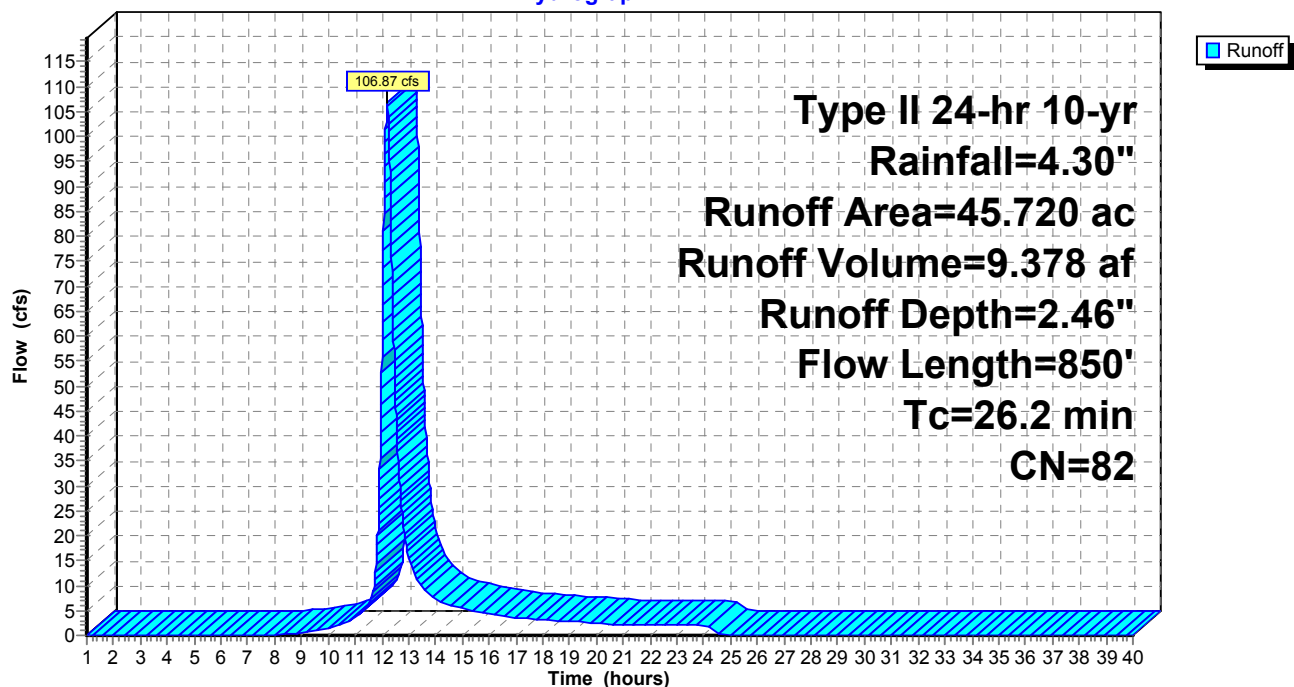
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
45.720	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.2	850	0.0100	0.5		Lag/CN Method,

Subcatchment W102: W102

Hydrograph



Subcatchment W103: W103

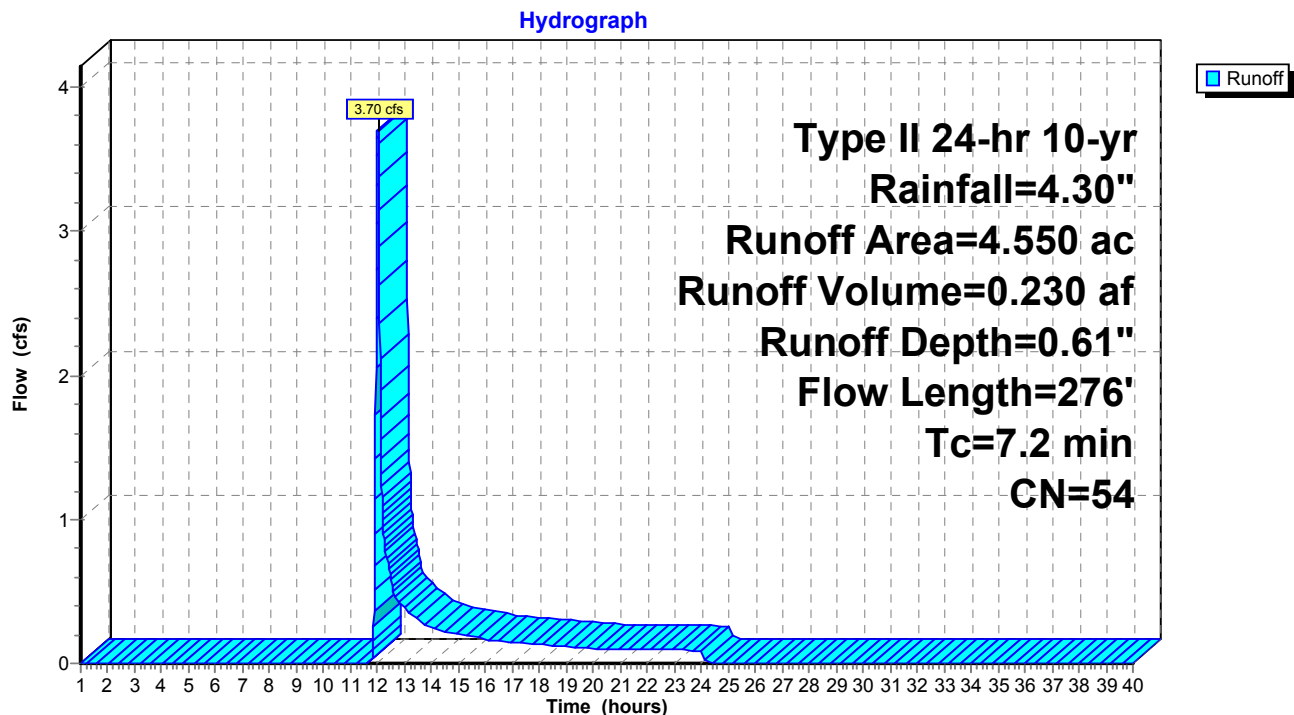
Runoff = 3.70 cfs @ 12.01 hrs, Volume= 0.230 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.550	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	276	0.1000	0.6		Lag/CN Method,

Subcatchment W103: W103

Subcatchment W104: W104

Runoff = 94.13 cfs @ 12.24 hrs, Volume= 9.219 af, Depth= 1.67"

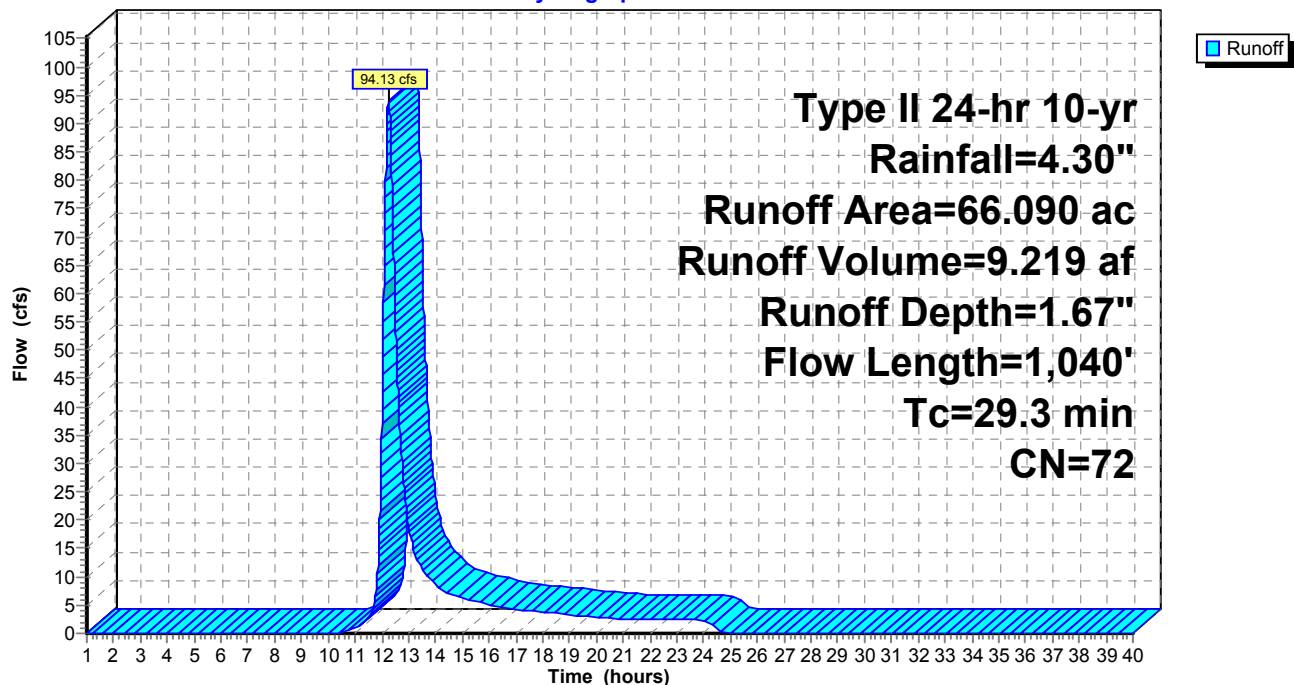
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
66.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.3	1,040	0.0200	0.6		Lag/CN Method,

Subcatchment W104: W104

Hydrograph



Subcatchment W105: W105

Runoff = 12.33 cfs @ 12.09 hrs, Volume= 0.903 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

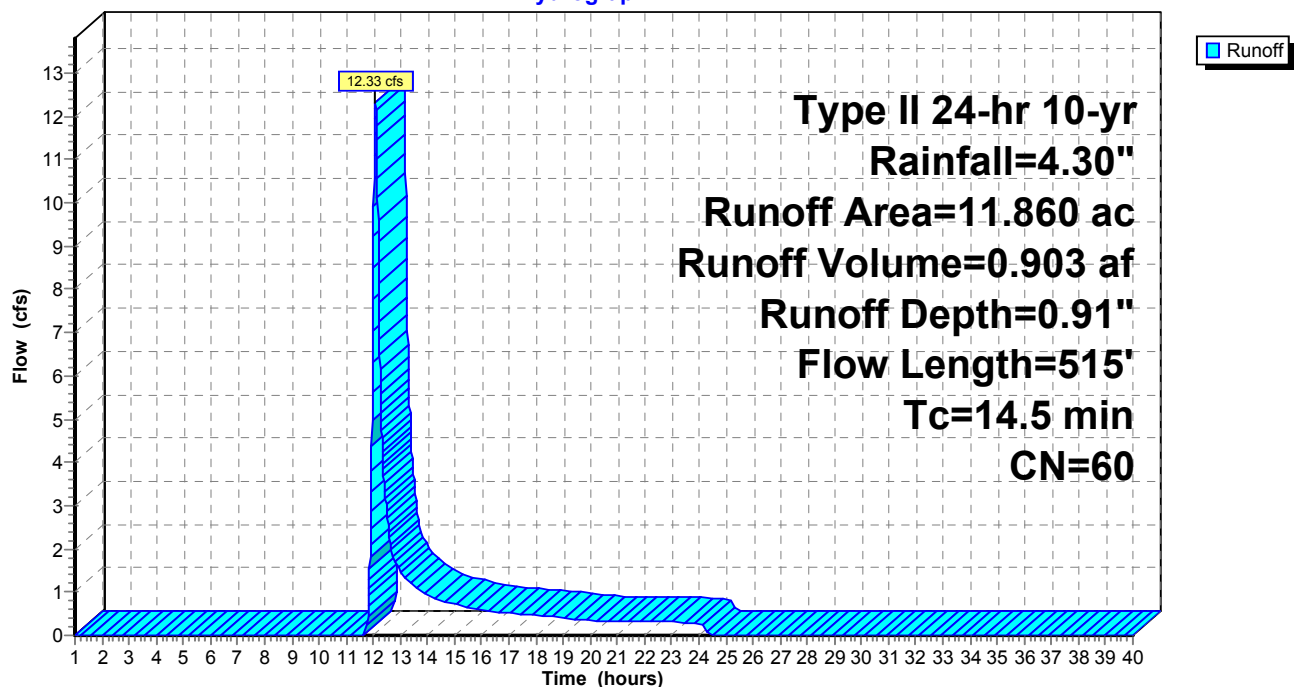
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
11.860	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	515	0.0500	0.6		Lag/CN Method,

Subcatchment W105: W105

Hydrograph



Subcatchment W106: W106

Runoff = 41.57 cfs @ 11.97 hrs, Volume= 1.941 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

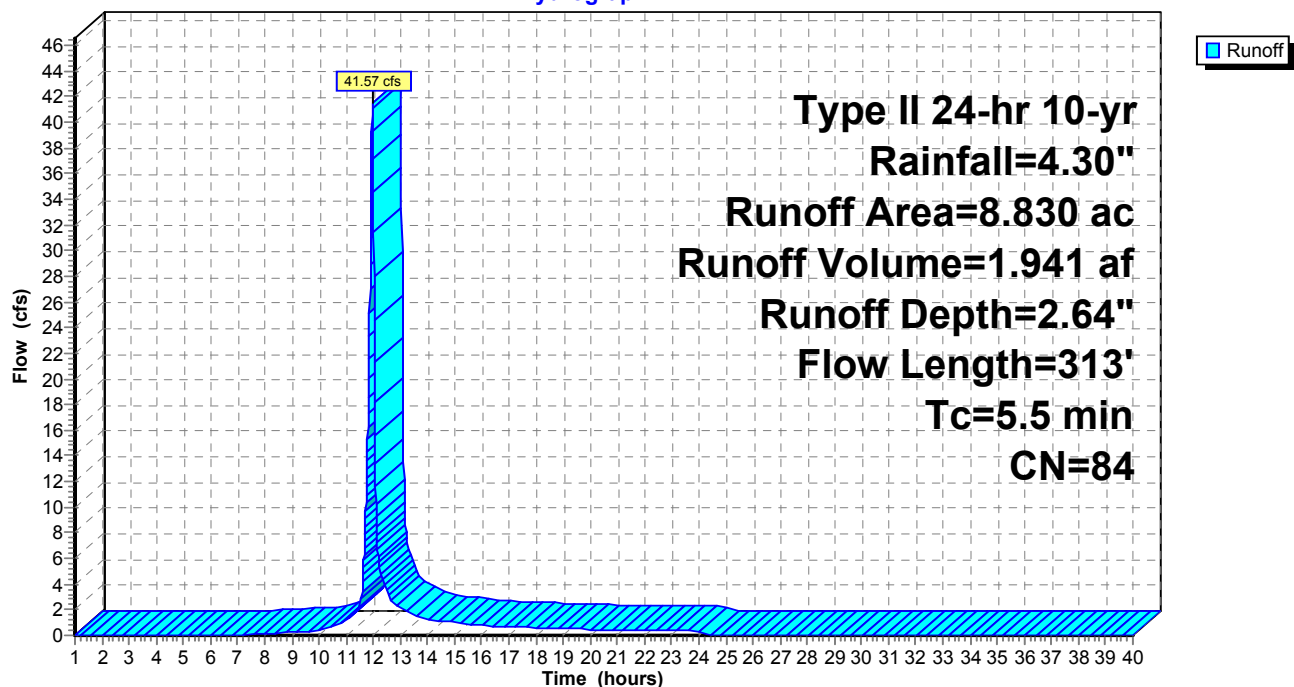
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.830	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	313	0.0400	0.9		Lag/CN Method,

Subcatchment W106: W106

Hydrograph



Subcatchment W107: W107

Runoff = 64.32 cfs @ 12.08 hrs, Volume= 4.210 af, Depth= 2.05"

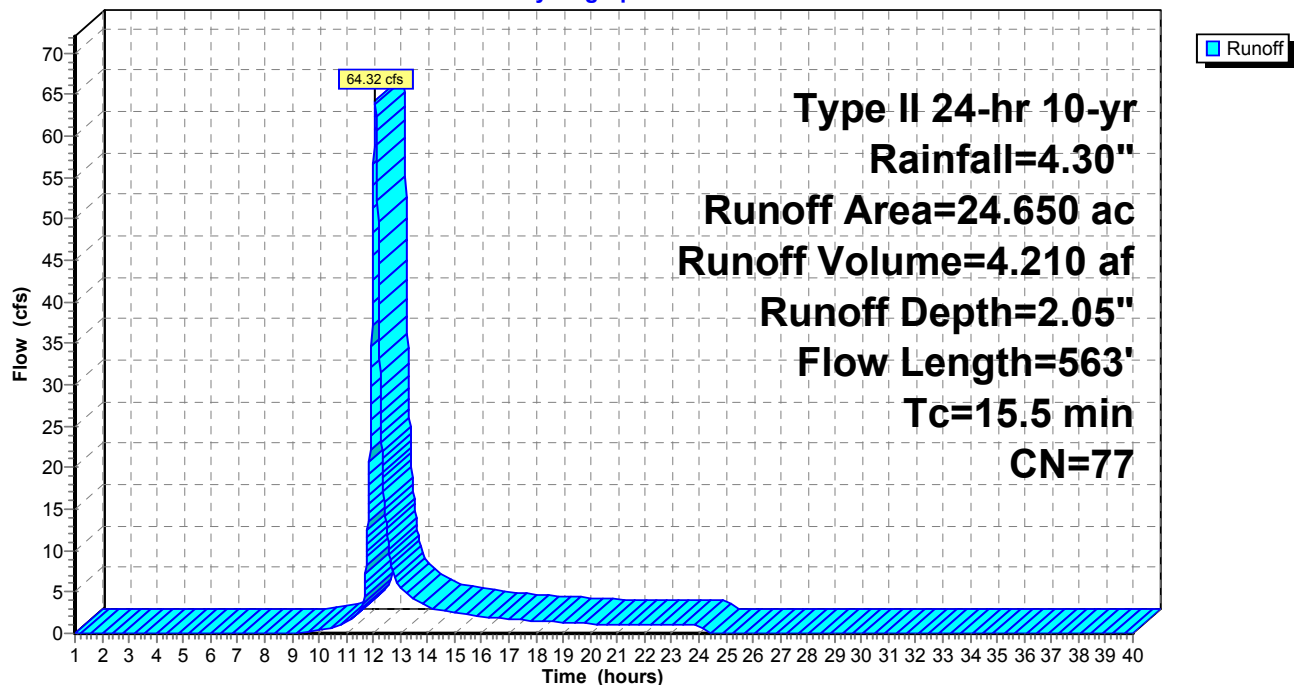
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
24.650	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	563	0.0200	0.6		Lag/CN Method,

Subcatchment W107: W107

Hydrograph



Subcatchment W108: W108

Runoff = 21.13 cfs @ 12.10 hrs, Volume= 1.469 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

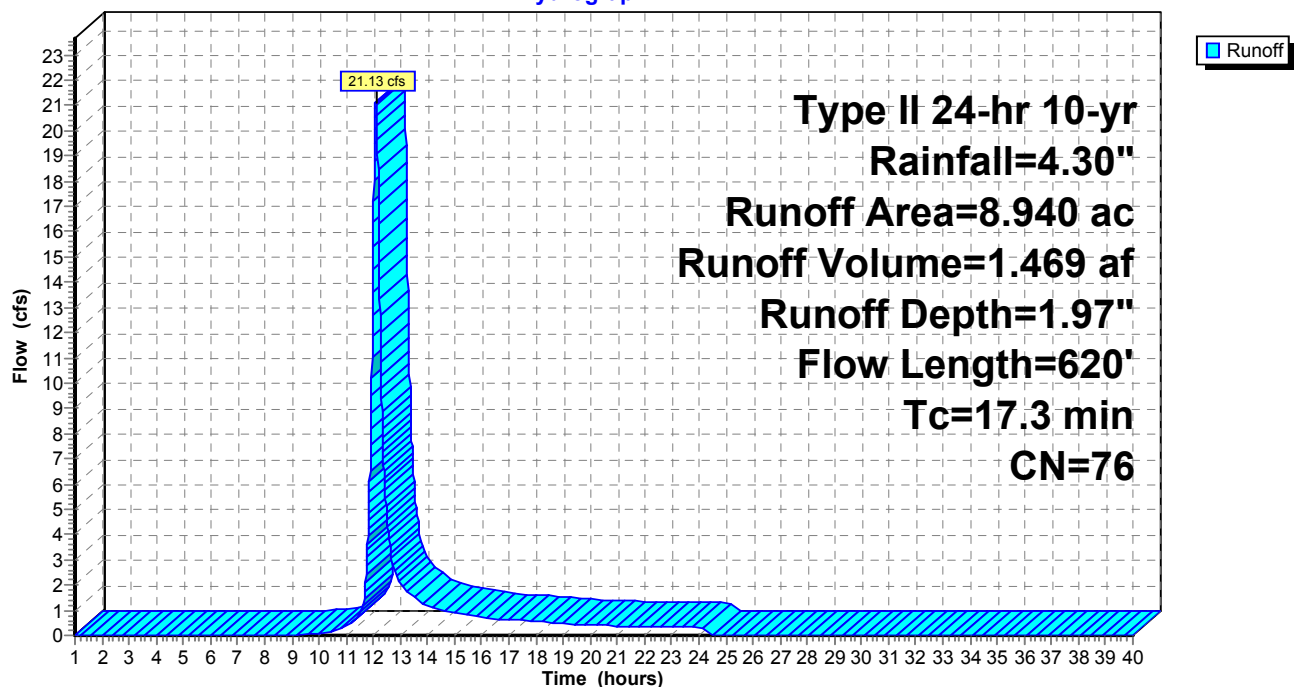
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.940	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	620	0.0200	0.6		Lag/CN Method,

Subcatchment W108: W108

Hydrograph



Subcatchment W109: W109

Runoff = 7.77 cfs @ 12.24 hrs, Volume= 0.766 af, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

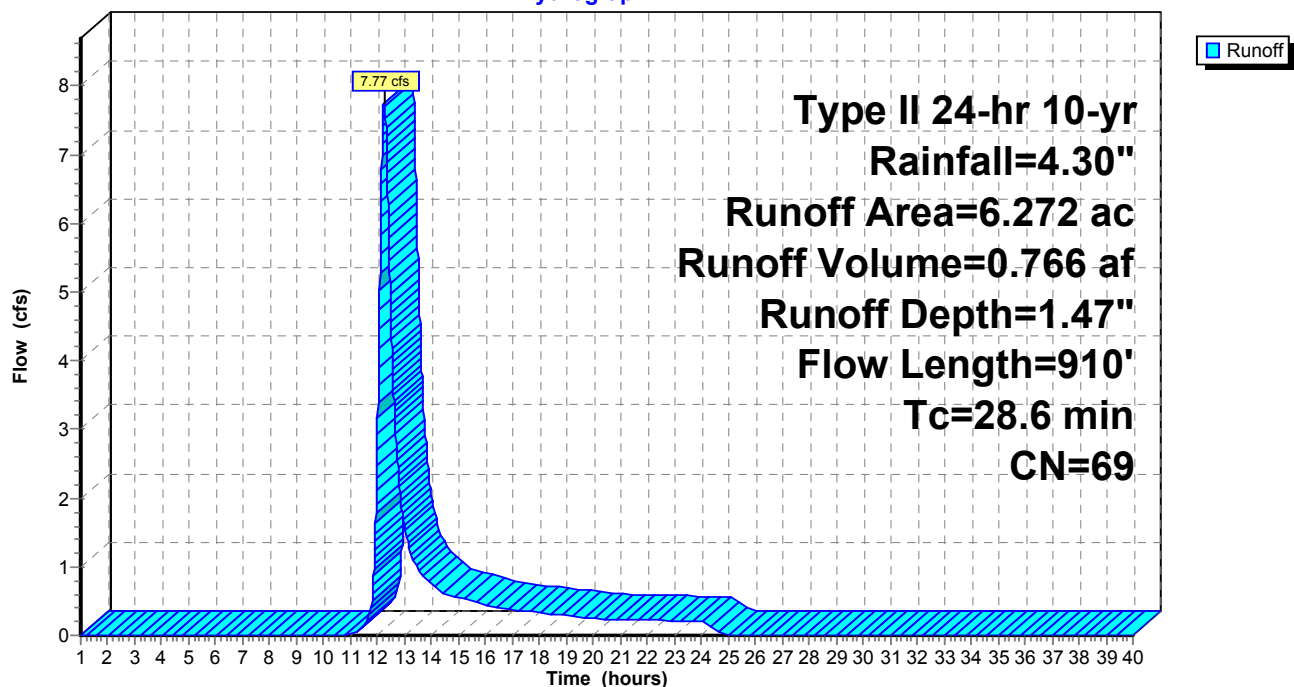
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
6.272	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	910	0.0200	0.5		Lag/CN Method,

Subcatchment W109: W109

Hydrograph



Subcatchment W110: W110

Runoff = 7.79 cfs @ 13.91 hrs, Volume= 2.905 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

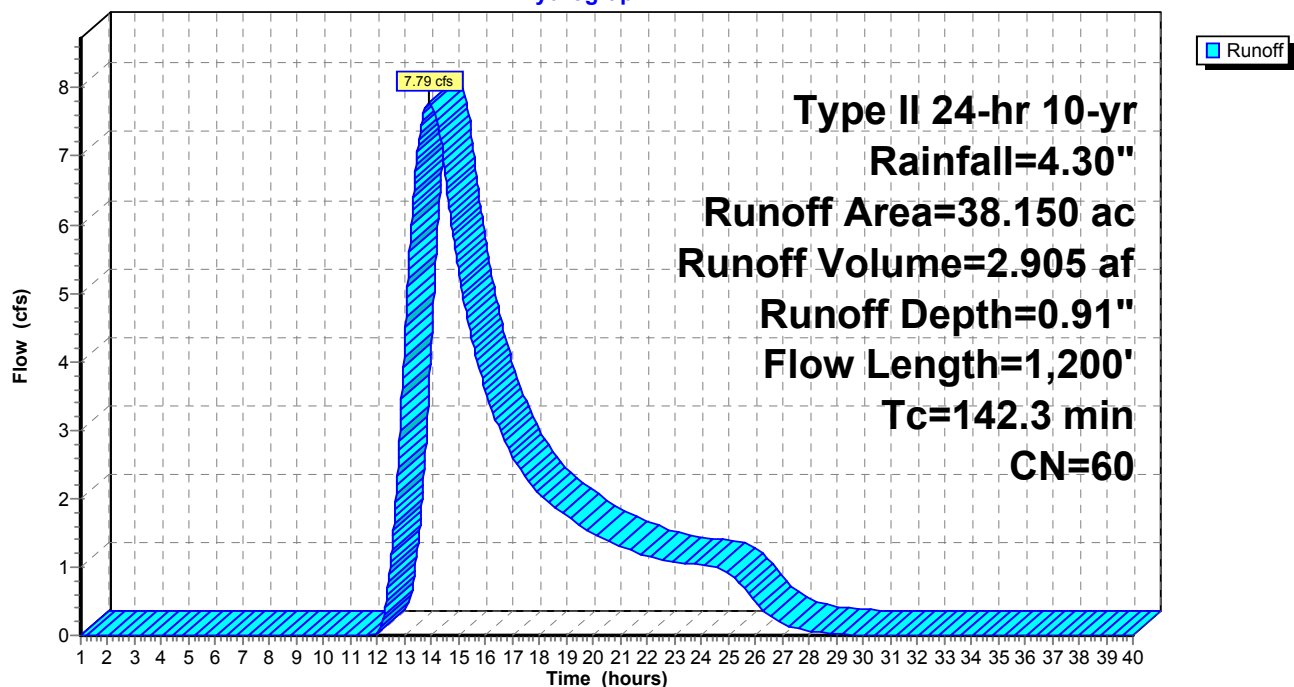
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
38.150	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
142.3	1,200	0.0020	0.1		Lag/CN Method,

Subcatchment W110: W110

Hydrograph



Subcatchment W111: W111

Runoff = 7.90 cfs @ 12.02 hrs, Volume= 0.429 af, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

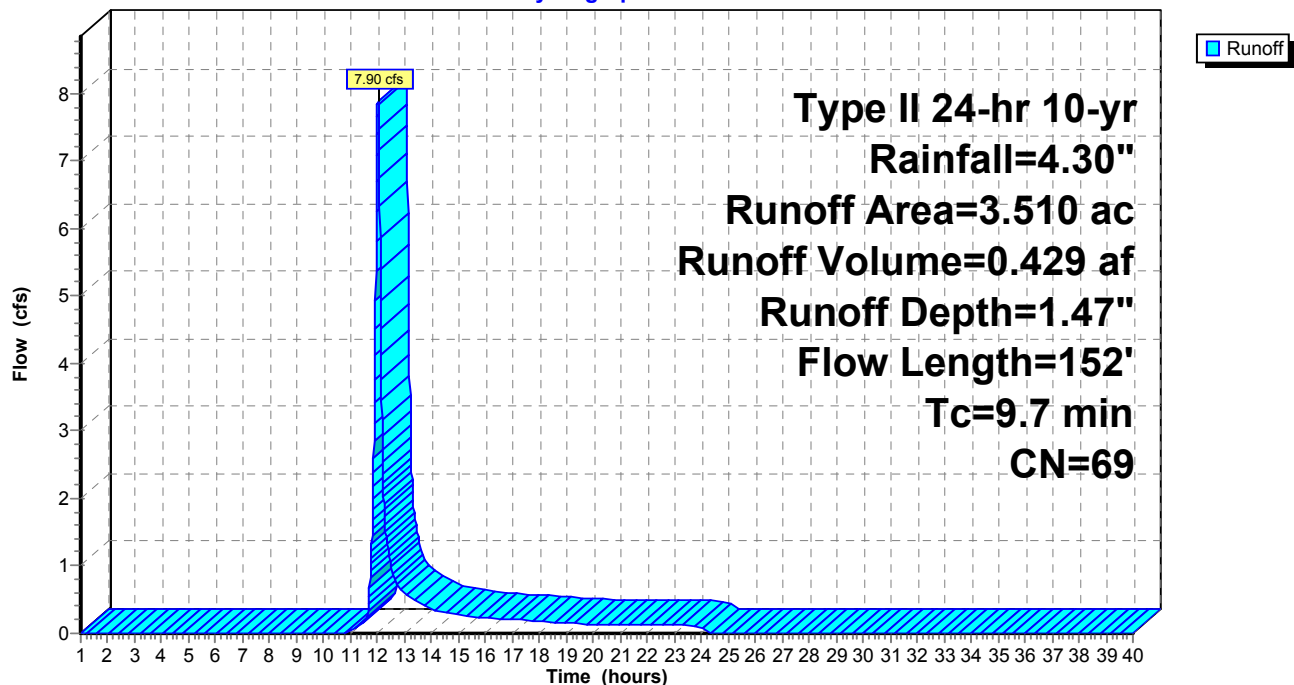
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
3.510	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	152	0.0100	0.3		Lag/CN Method,

Subcatchment W111: W111

Hydrograph



Subcatchment W112: W112

Runoff = 4.94 cfs @ 13.54 hrs, Volume= 1.802 af, Depth= 0.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

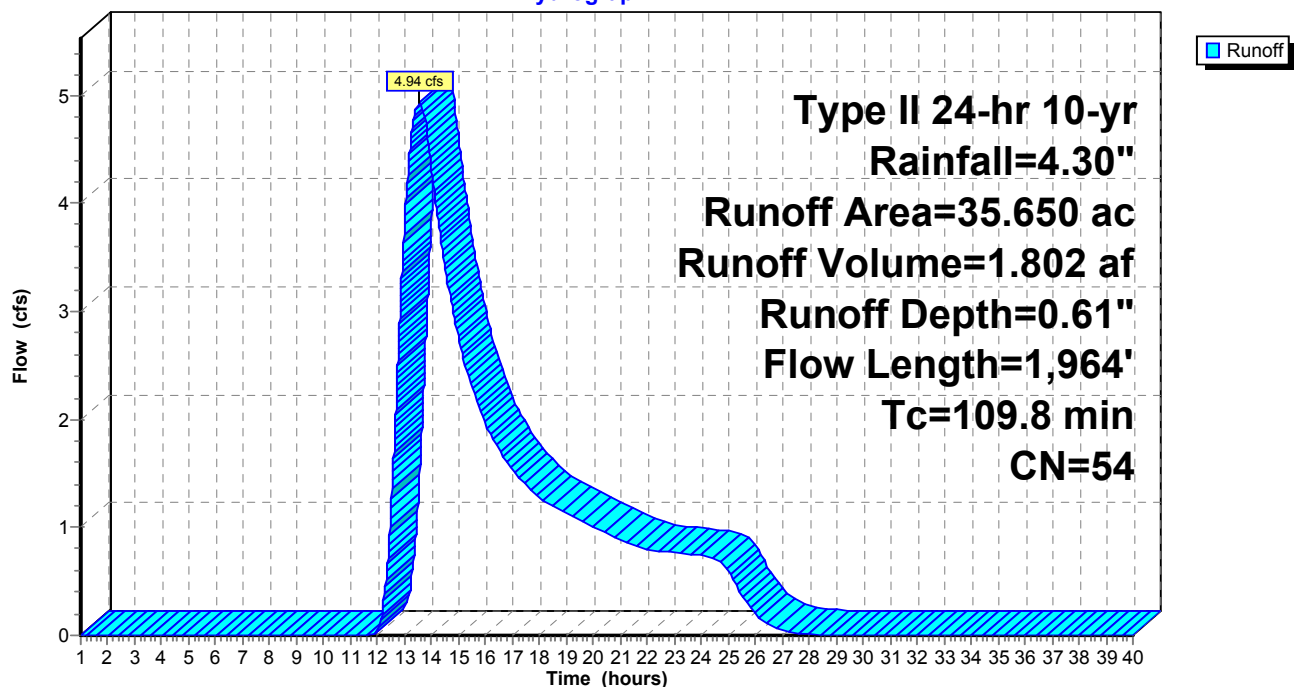
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
35.650	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
109.8	1,964	0.0100	0.3		Lag/CN Method,

Subcatchment W112: W112

Hydrograph



Subcatchment W113: W113

Runoff = 13.05 cfs @ 12.17 hrs, Volume= 1.093 af, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

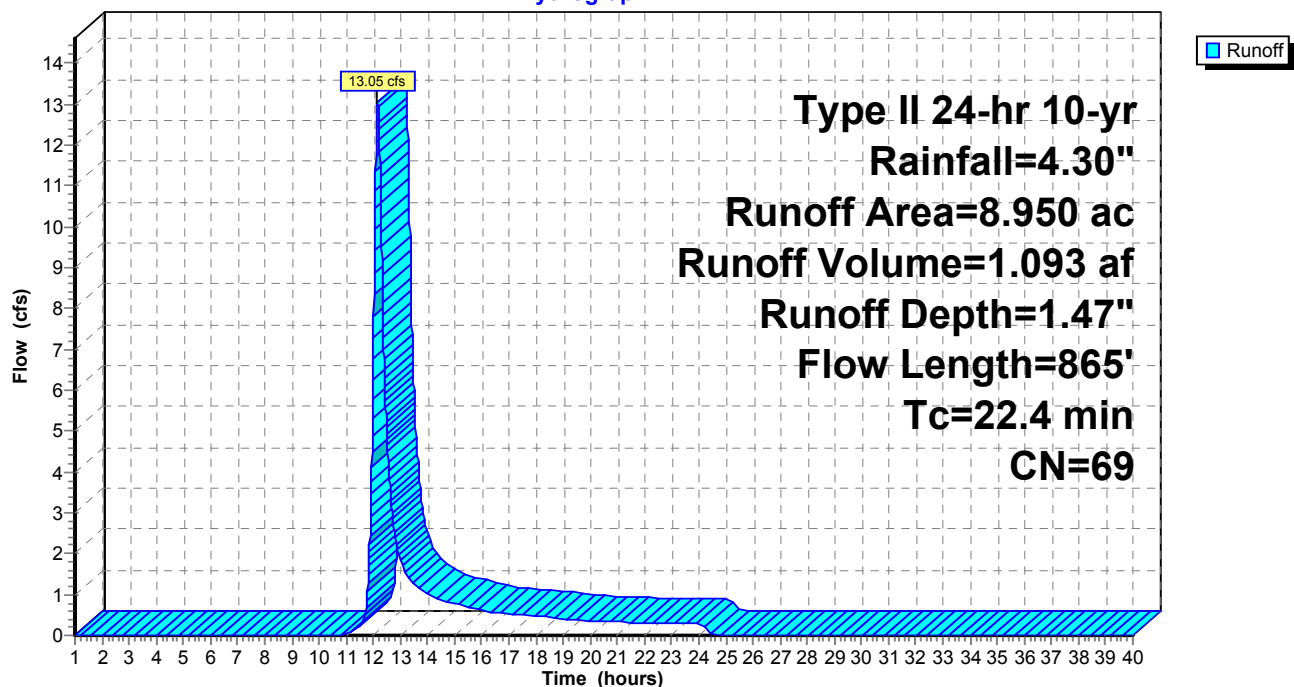
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.950	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	865	0.0300	0.6		Lag/CN Method,

Subcatchment W113: W113

Hydrograph



Subcatchment W114: W114

Runoff = 12.41 cfs @ 12.70 hrs, Volume= 2.595 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

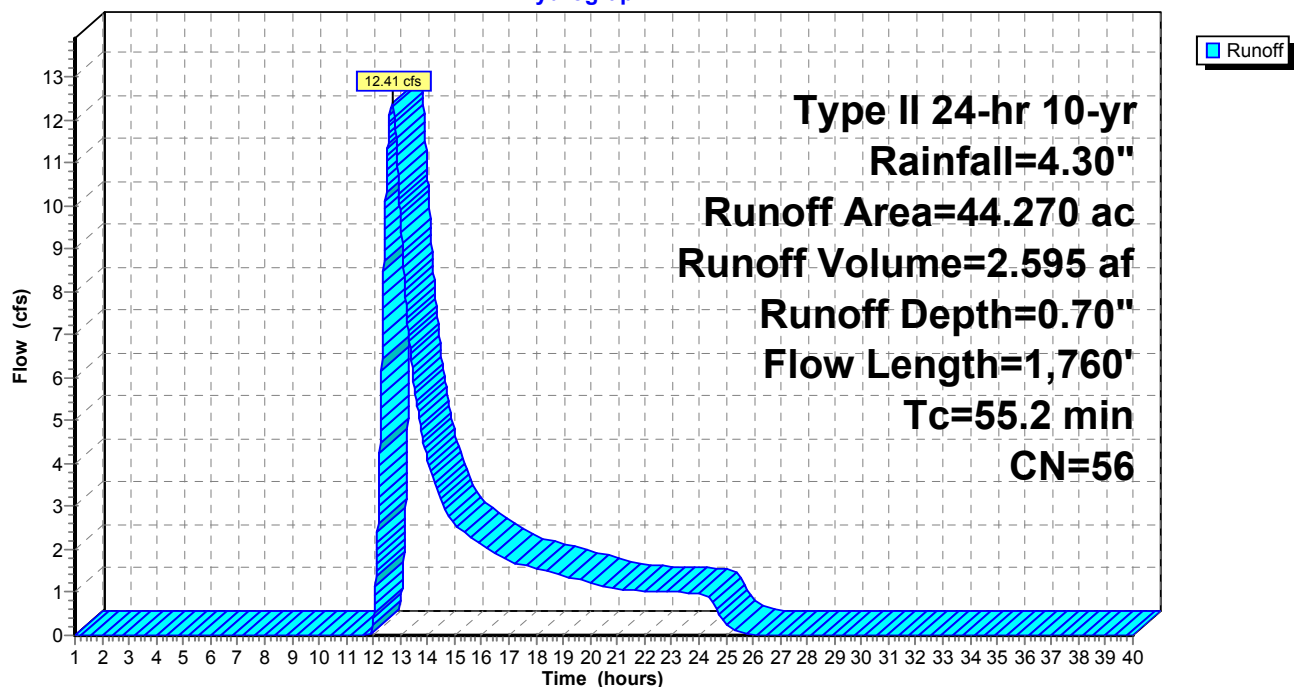
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
44.270	56	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.2	1,760	0.0300	0.5		Lag/CN Method,

Subcatchment W114: W114

Hydrograph



Subcatchment W115: W115

Runoff = 4.66 cfs @ 12.65 hrs, Volume= 0.929 af, Depth= 0.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

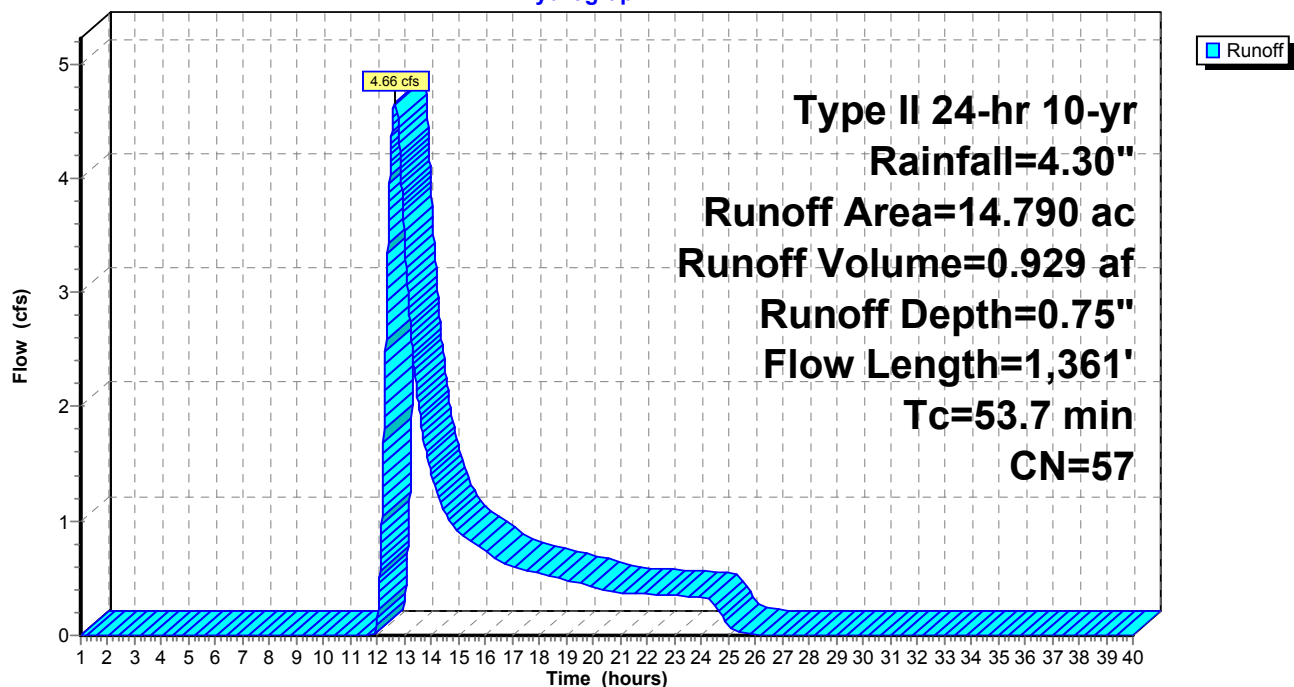
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
14.790	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	1,361	0.0200	0.4		Lag/CN Method,

Subcatchment W115: W115

Hydrograph



Subcatchment W116: W116

Runoff = 12.35 cfs @ 12.01 hrs, Volume= 0.644 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

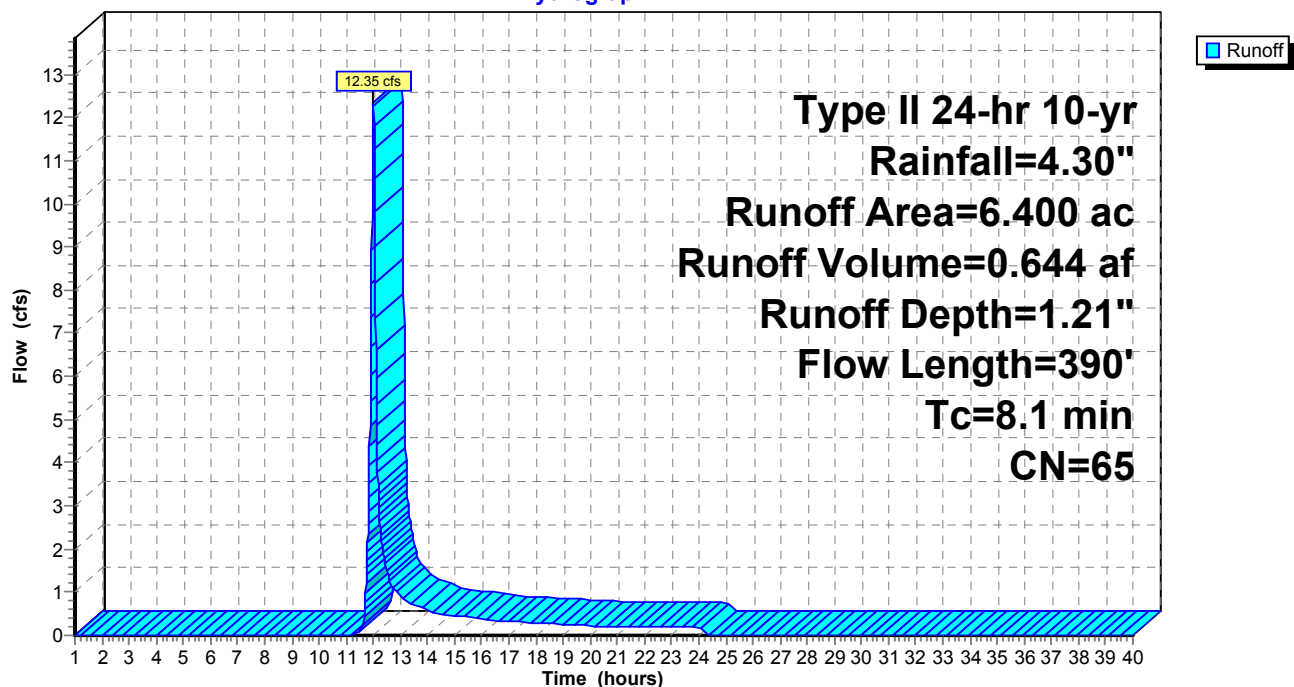
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
6.400	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	390	0.0800	0.8		Lag/CN Method,

Subcatchment W116: W116

Hydrograph



Subcatchment W117: W117

Runoff = 0.07 cfs @ 13.41 hrs, Volume= 0.049 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

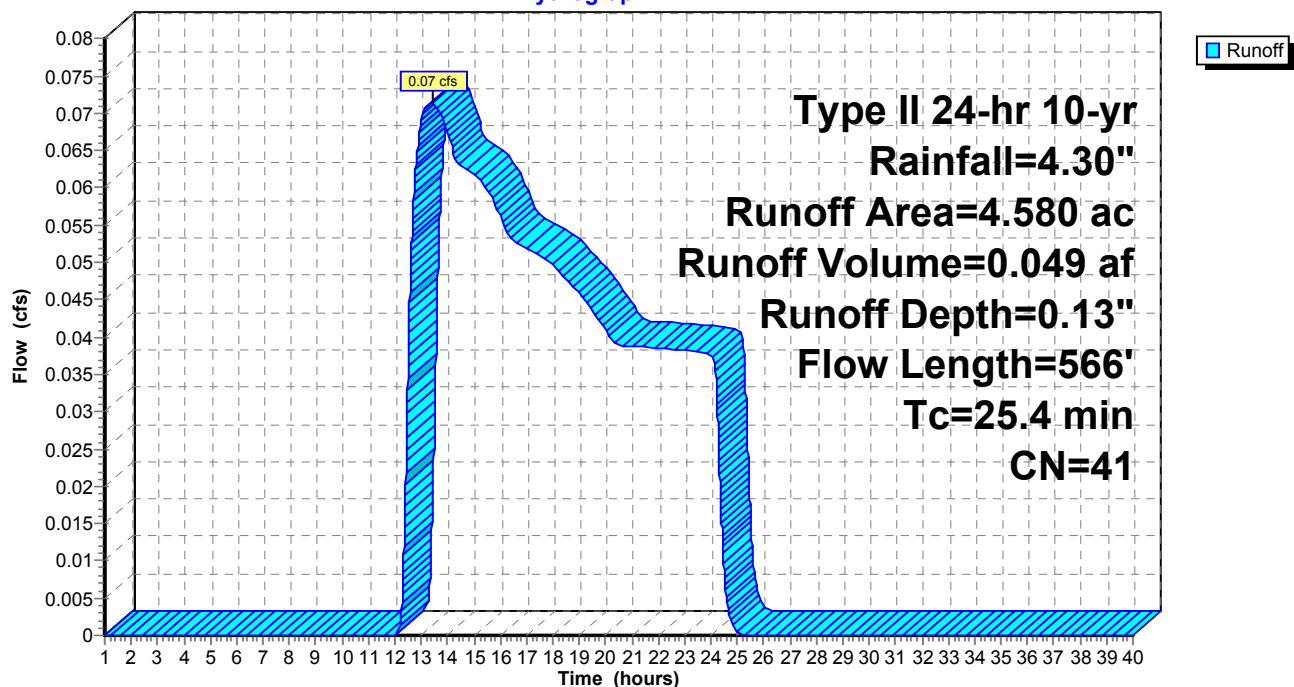
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.580	41	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	566	0.0500	0.4		Lag/CN Method,

Subcatchment W117: W117

Hydrograph



Subcatchment W118: W118

Runoff = 3.88 cfs @ 12.68 hrs, Volume= 1.024 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

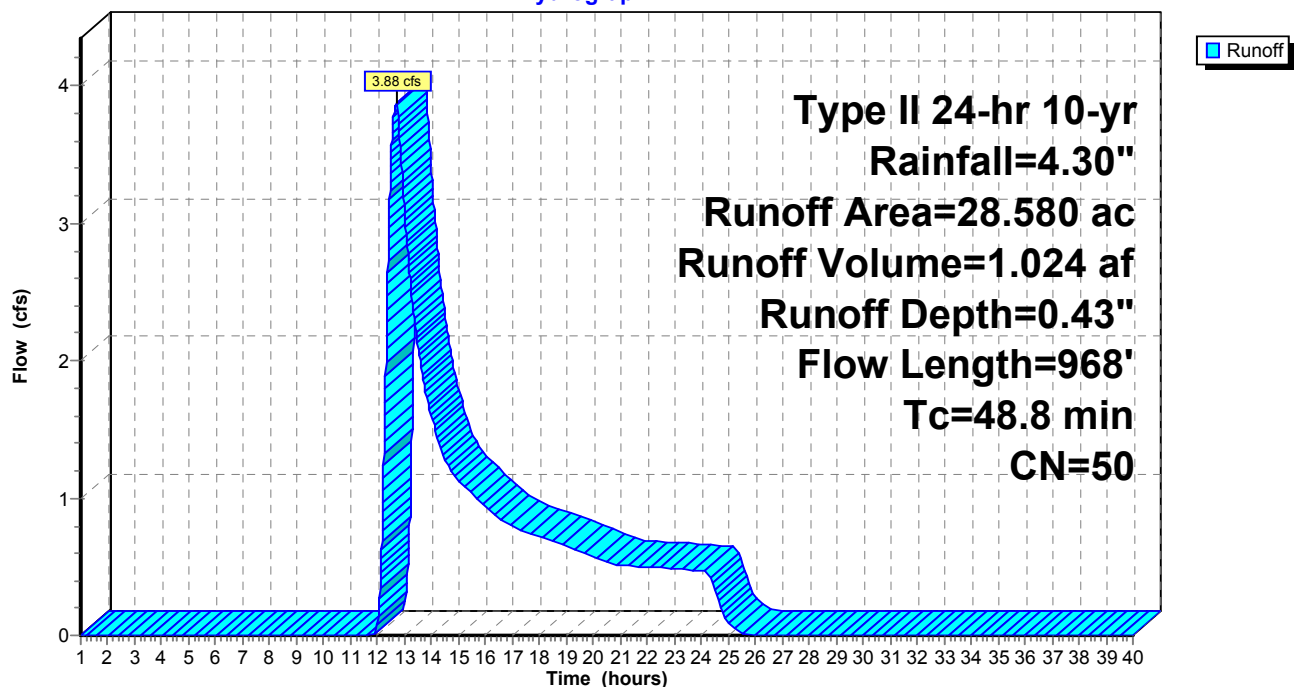
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
28.580	50	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.8	968	0.0200	0.3		Lag/CN Method,

Subcatchment W118: W118

Hydrograph



Subcatchment W119: W119

Runoff = 1.74 cfs @ 12.17 hrs, Volume= 0.263 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

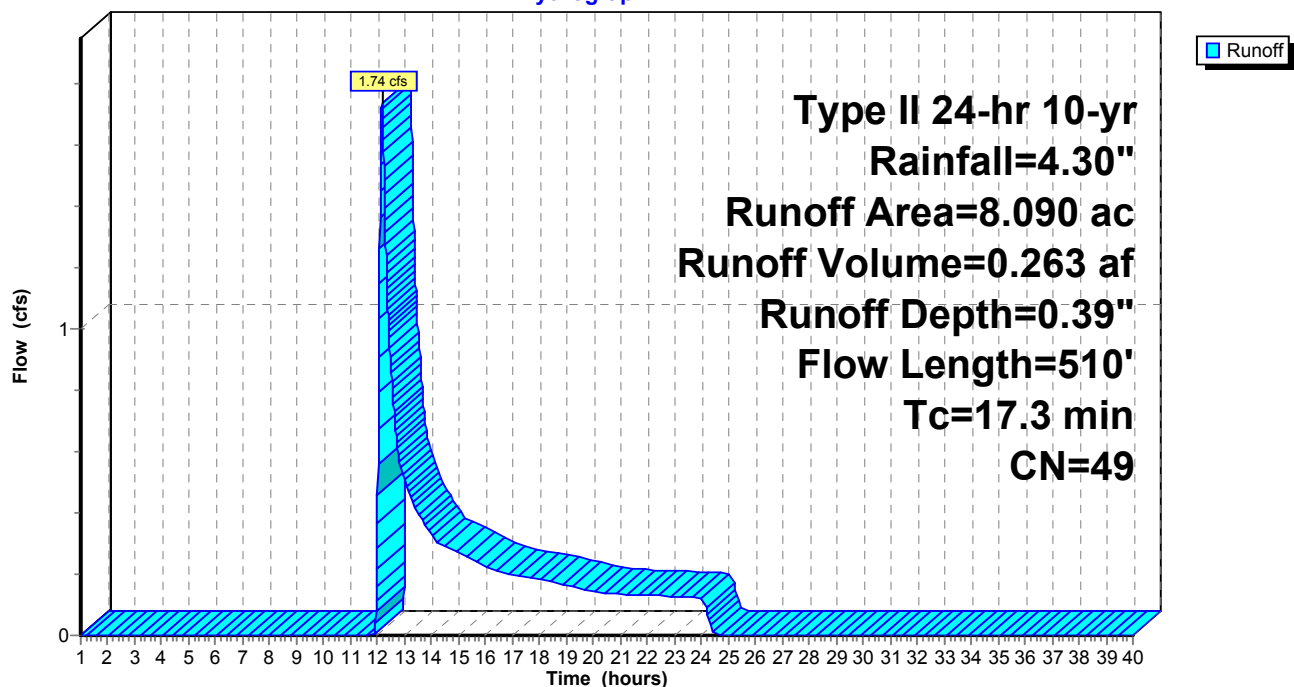
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.090	49	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	510	0.0600	0.5		Lag/CN Method,

Subcatchment W119: W119

Hydrograph



Subcatchment W12: W12

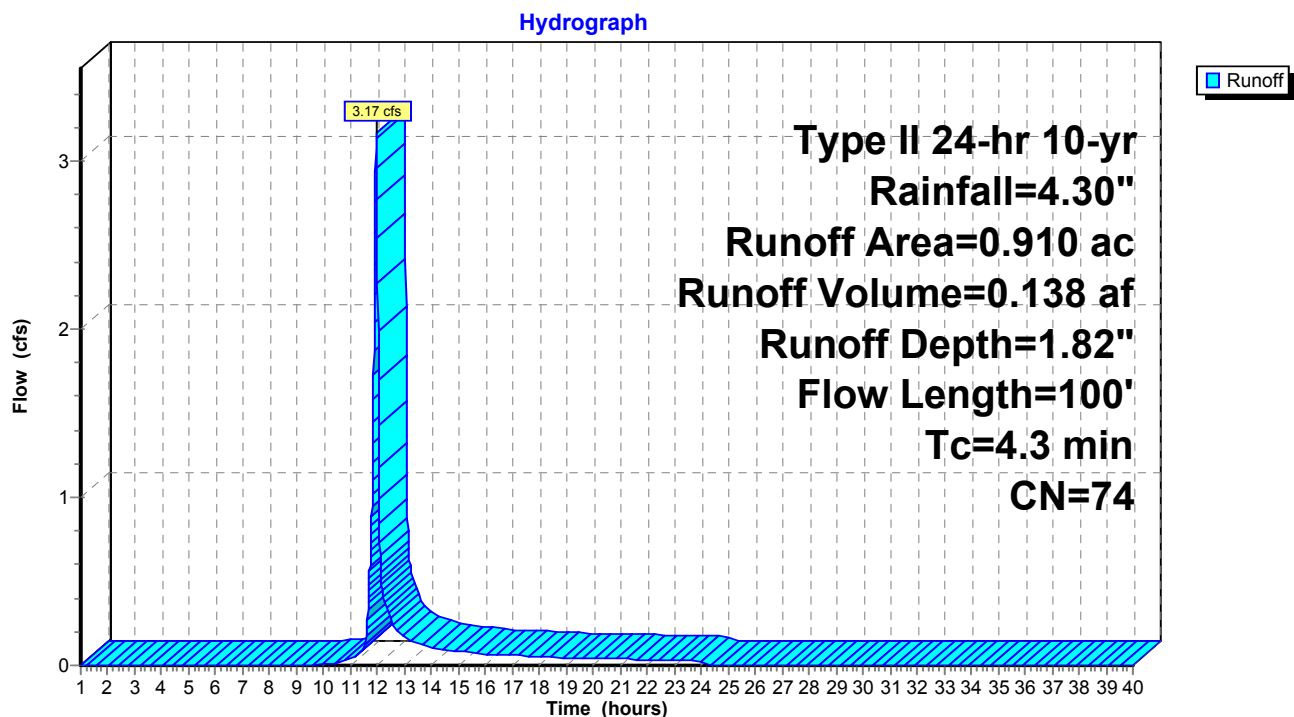
Runoff = 3.17 cfs @ 11.96 hrs, Volume= 0.138 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
0.910	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.0200	0.4		Lag/CN Method,

Subcatchment W12: W12

Subcatchment W120: W120

Runoff = 0.62 cfs @ 13.28 hrs, Volume= 0.331 af, Depth= 0.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

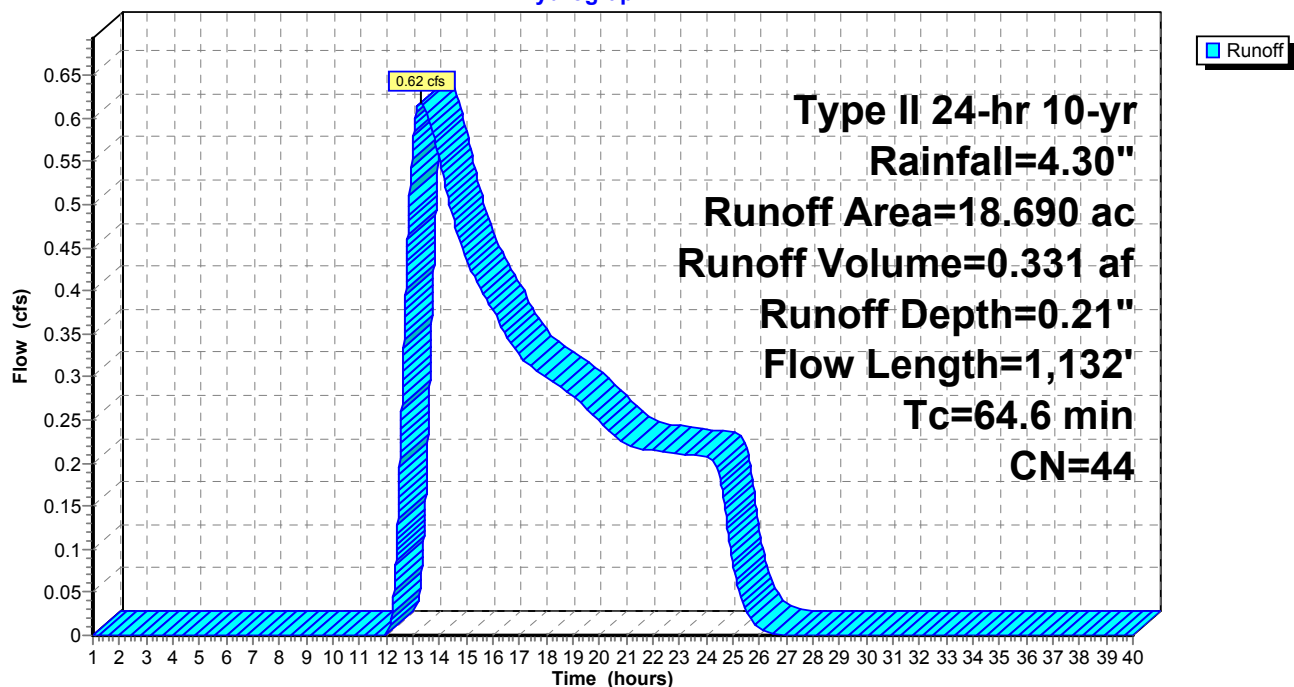
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.690	44	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.6	1,132	0.0200	0.3		Lag/CN Method,

Subcatchment W120: W120

Hydrograph



Subcatchment W121: W121

Runoff = 16.70 cfs @ 12.01 hrs, Volume= 0.869 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

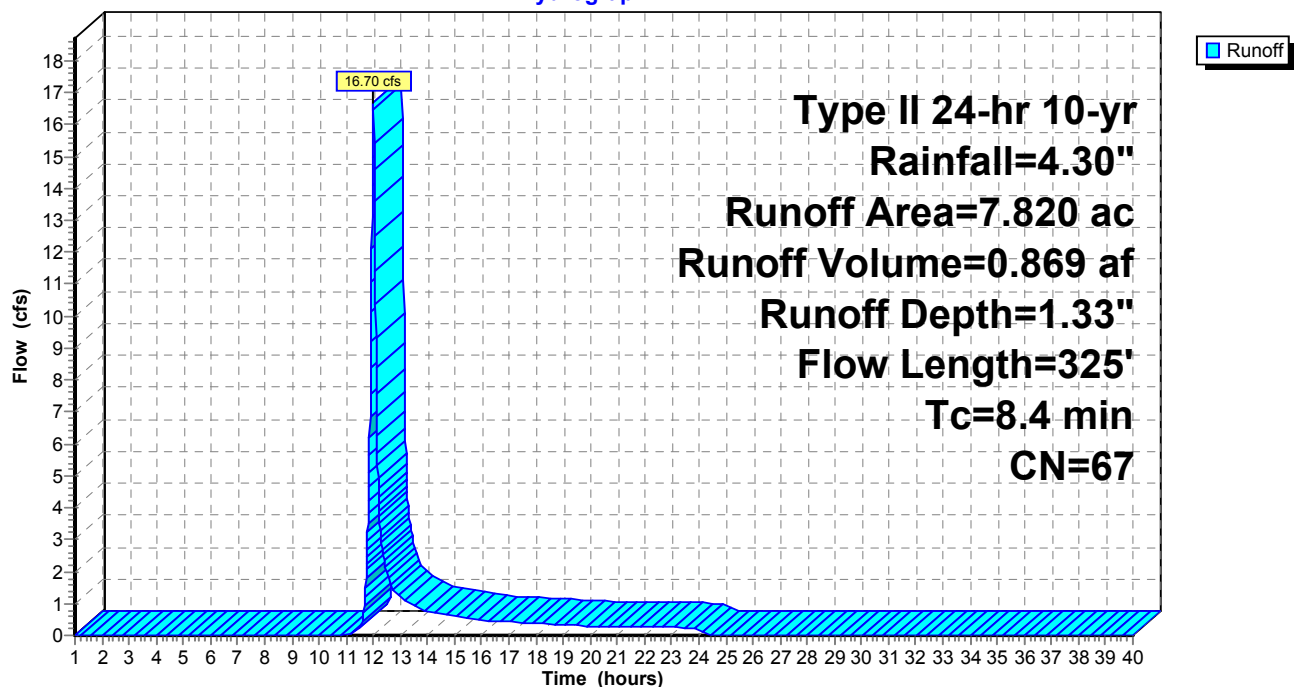
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.820	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	325	0.0500	0.6		Lag/CN Method,

Subcatchment W121: W121

Hydrograph



Subcatchment W122: W122

Runoff = 33.31 cfs @ 12.08 hrs, Volume= 2.286 af, Depth= 2.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

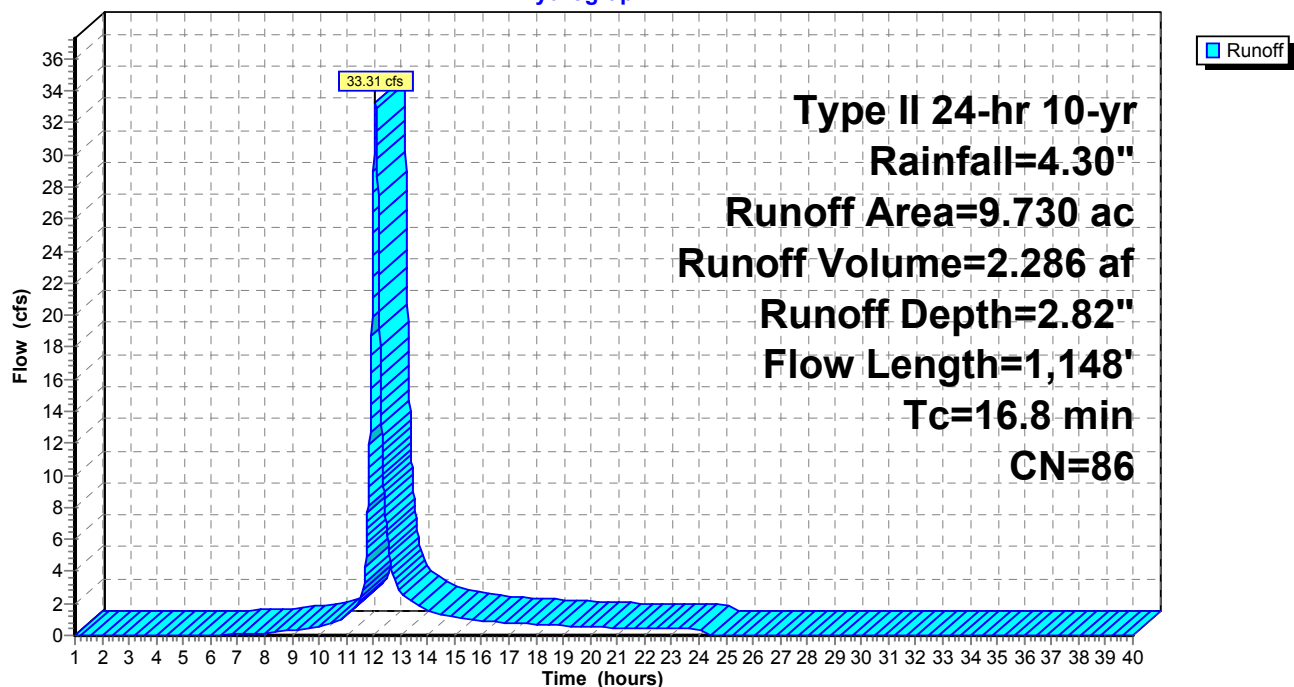
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.730	86	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,148	0.0300	1.1		Lag/CN Method,

Subcatchment W122: W122

Hydrograph



Subcatchment W123: W123

Runoff = 5.37 cfs @ 12.09 hrs, Volume= 0.361 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

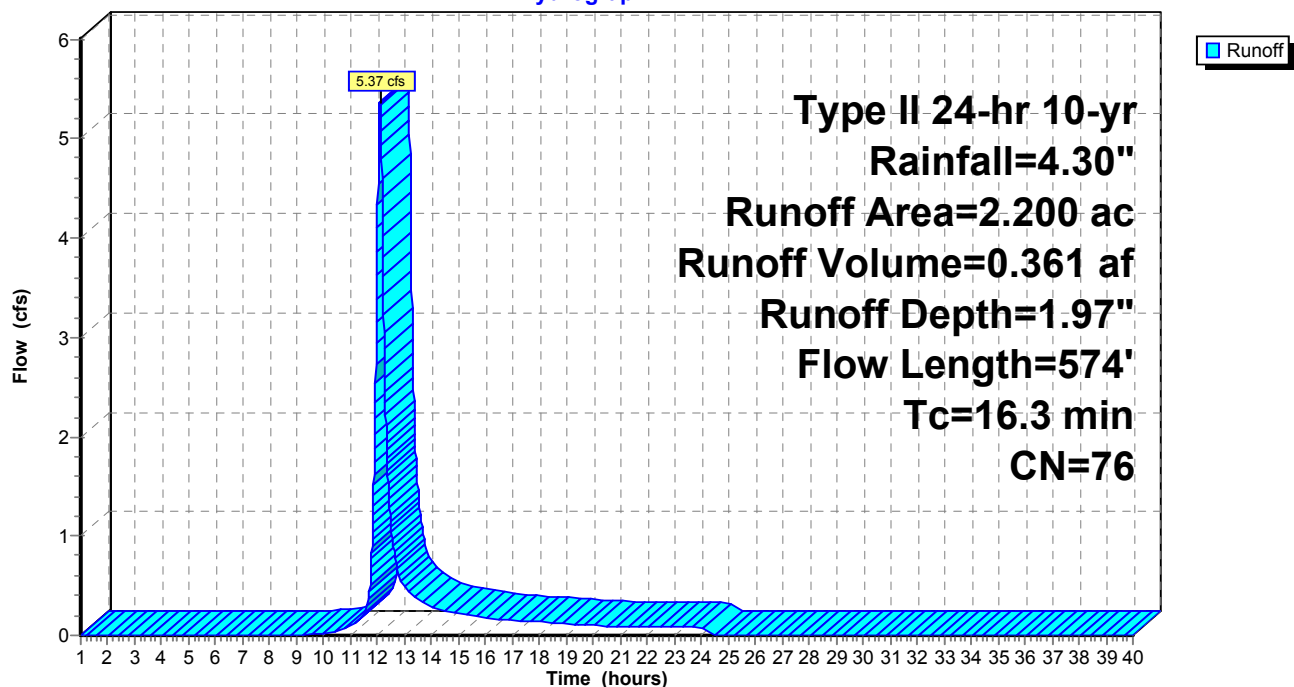
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
2.200	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	574	0.0200	0.6		Lag/CN Method,

Subcatchment W123: W123

Hydrograph



Subcatchment W124: W124

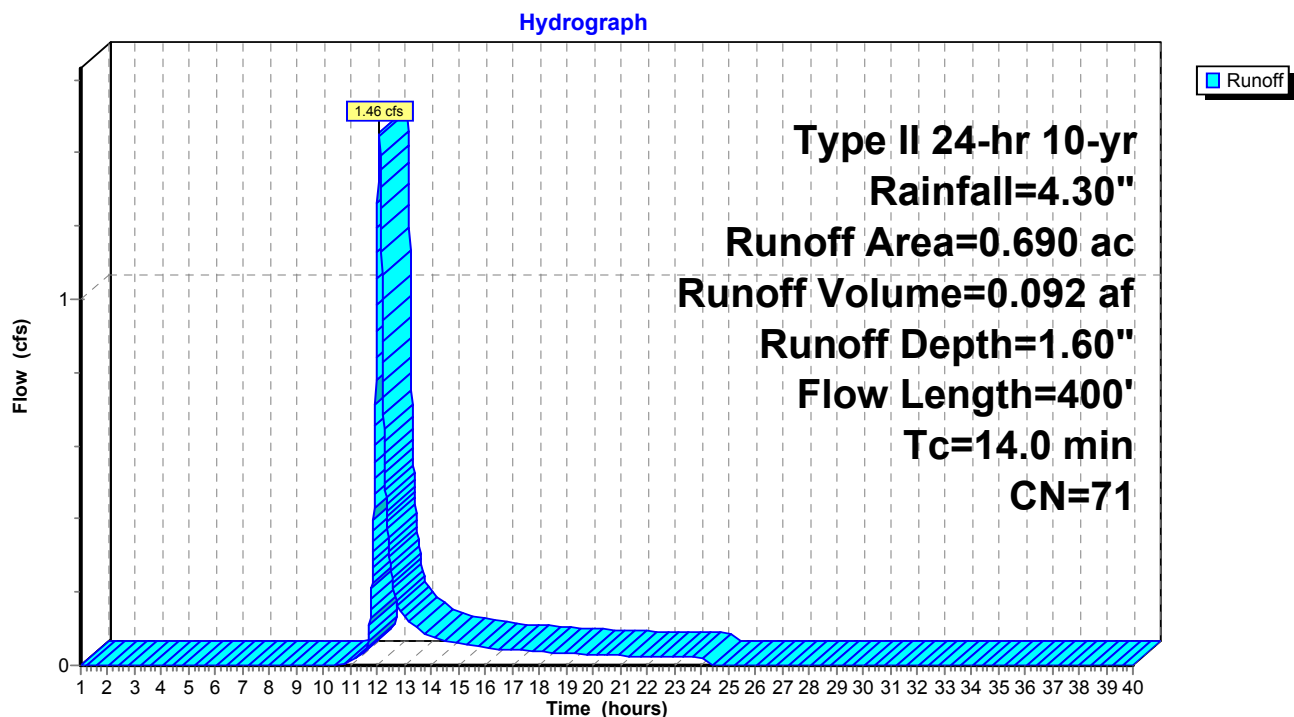
Runoff = 1.46 cfs @ 12.07 hrs, Volume= 0.092 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
0.690	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	400	0.0200	0.5		Lag/CN Method,

Subcatchment W124: W124

Subcatchment W125: W125

Runoff = 11.30 cfs @ 12.51 hrs, Volume= 1.589 af, Depth= 1.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

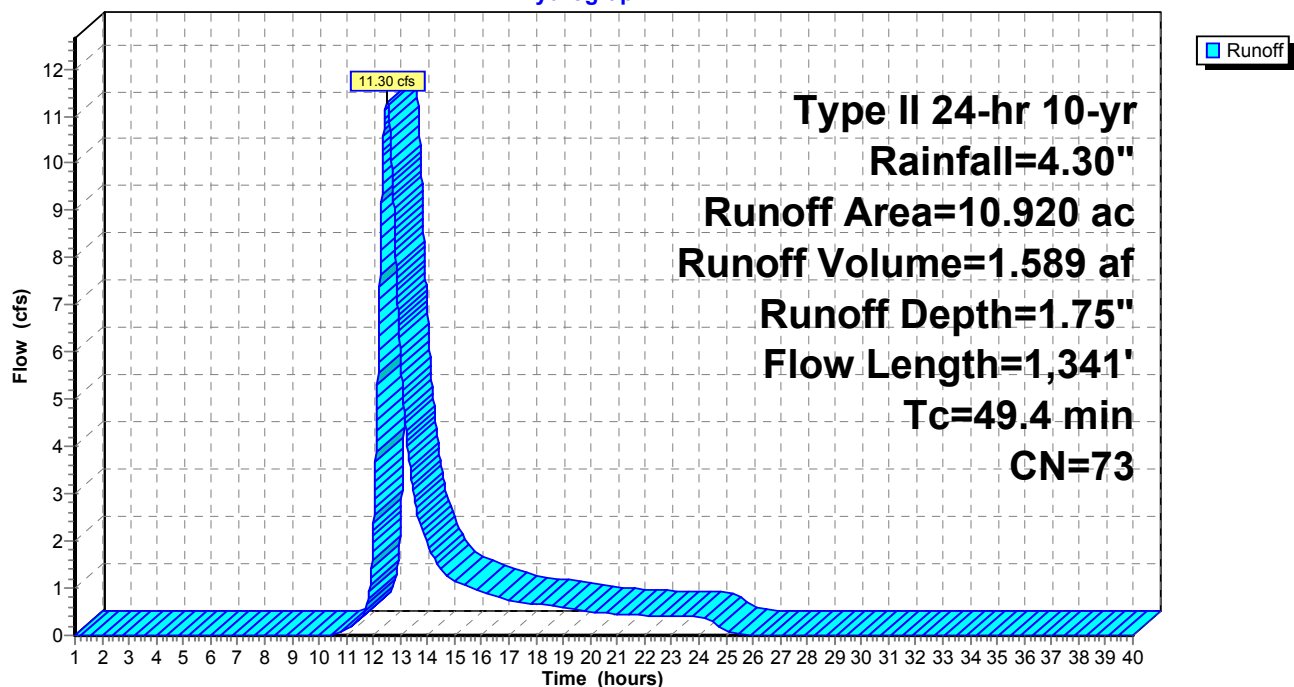
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
10.920	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.4	1,341	0.0100	0.5		Lag/CN Method,

Subcatchment W125: W125

Hydrograph



Subcatchment W126: W126

Runoff = 65.46 cfs @ 12.05 hrs, Volume= 4.146 af, Depth= 3.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

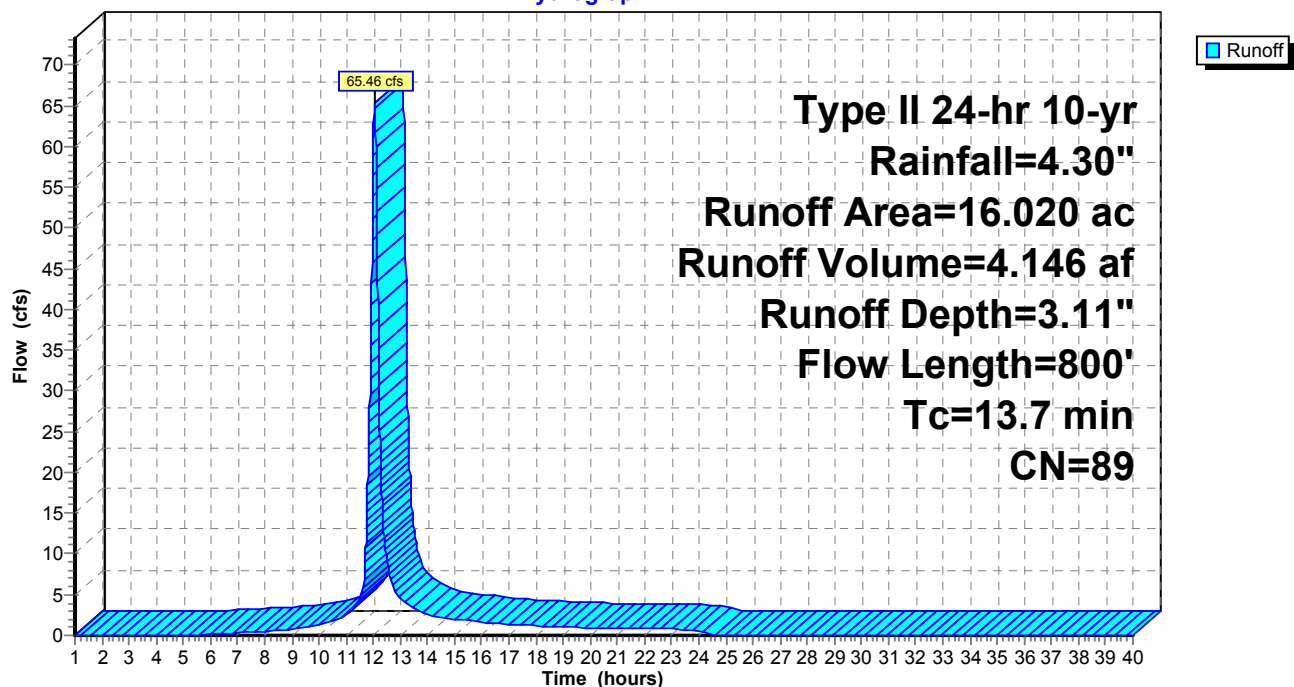
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
16.020	89	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	800	0.0200	1.0		Lag/CN Method,

Subcatchment W126: W126

Hydrograph



Subcatchment W128: W128

Runoff = 13.17 cfs @ 12.07 hrs, Volume= 0.839 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

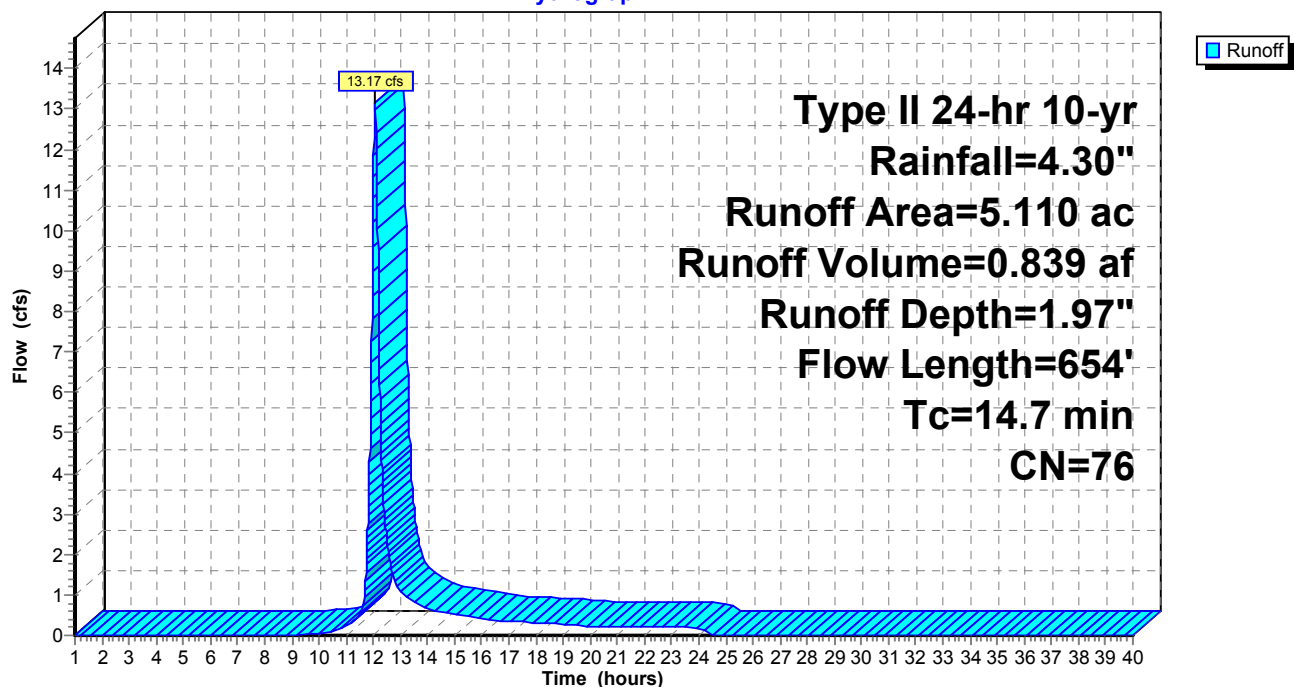
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.110	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	654	0.0300	0.7		Lag/CN Method,

Subcatchment W128: W128

Hydrograph



Subcatchment W129: W129

Runoff = 50.89 cfs @ 12.12 hrs, Volume= 3.751 af, Depth= 2.55"

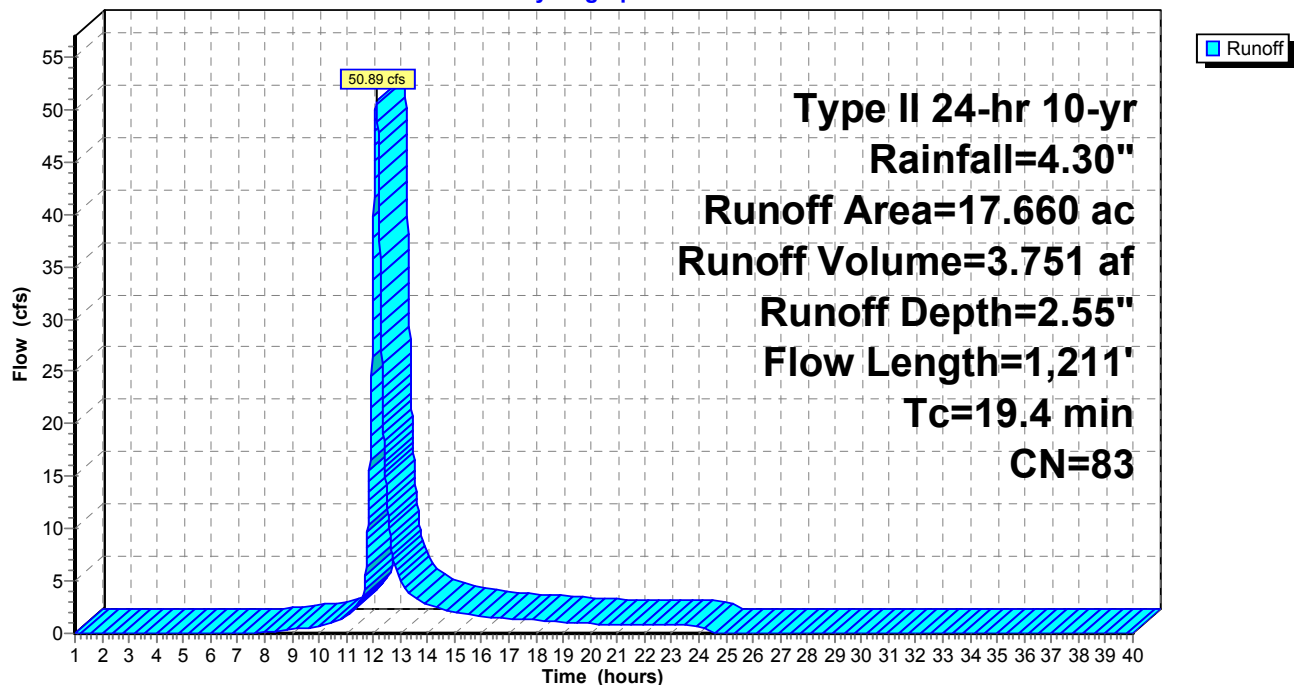
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
17.660	83	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.4	1,211	0.0300	1.0		Lag/CN Method,

Subcatchment W129: W129

Hydrograph



Subcatchment W13: W13

Runoff = 1.88 cfs @ 11.92 hrs, Volume= 0.073 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

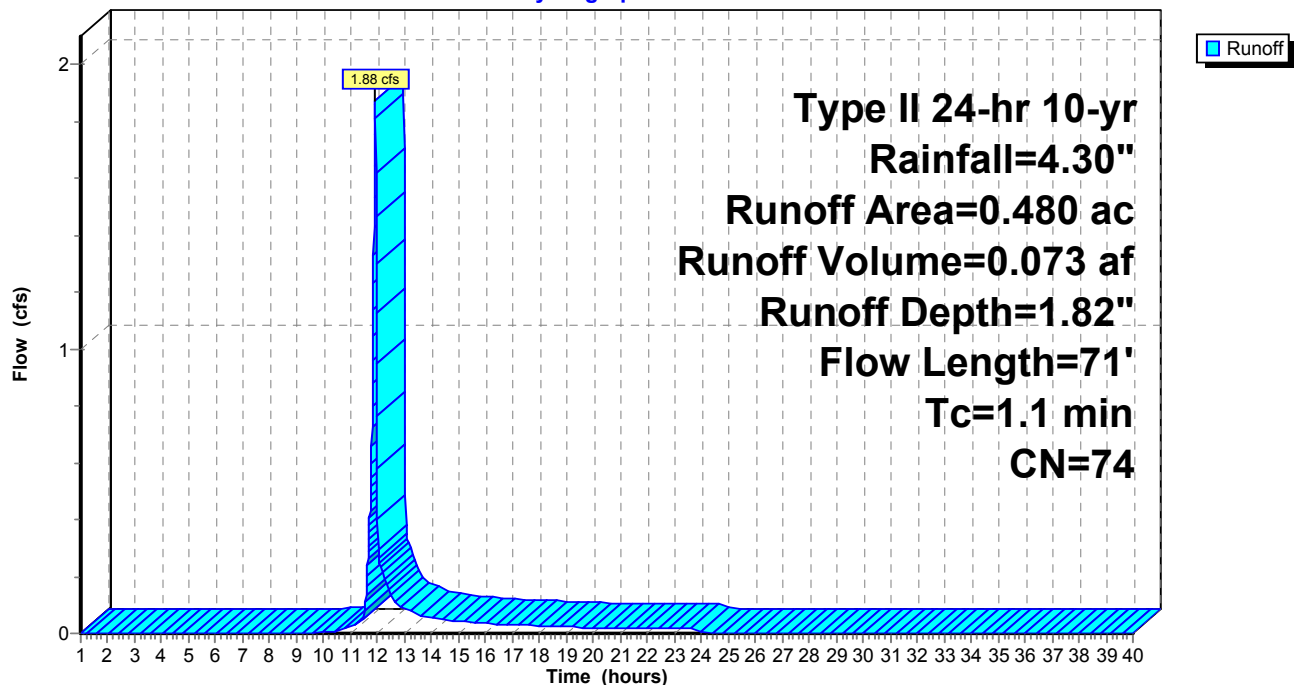
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
0.480	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	71	0.1700	1.1		Lag/CN Method,

Subcatchment W13: W13

Hydrograph



Subcatchment W134: W134

Runoff = 29.97 cfs @ 12.02 hrs, Volume= 1.690 af, Depth= 2.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

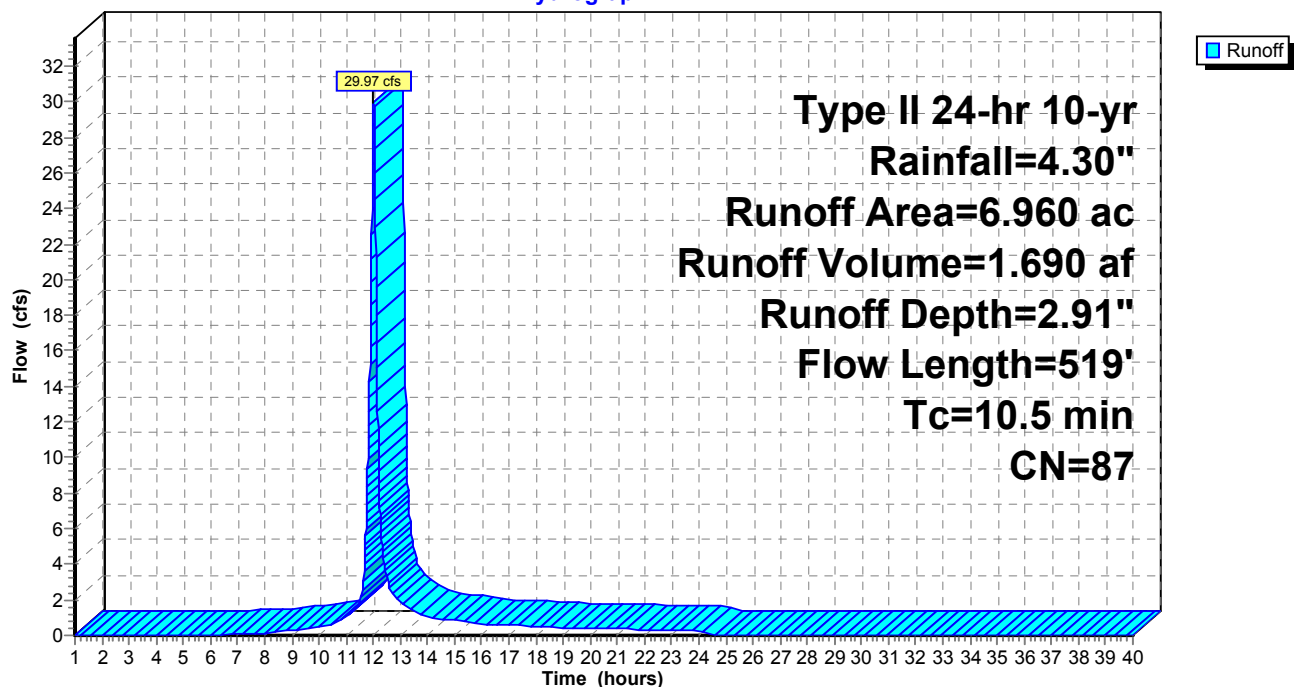
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
6.960	87	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	519	0.0200	0.8		Lag/CN Method,

Subcatchment W134: W134

Hydrograph



Subcatchment W135: W135

Runoff = 29.17 cfs @ 12.44 hrs, Volume= 3.697 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

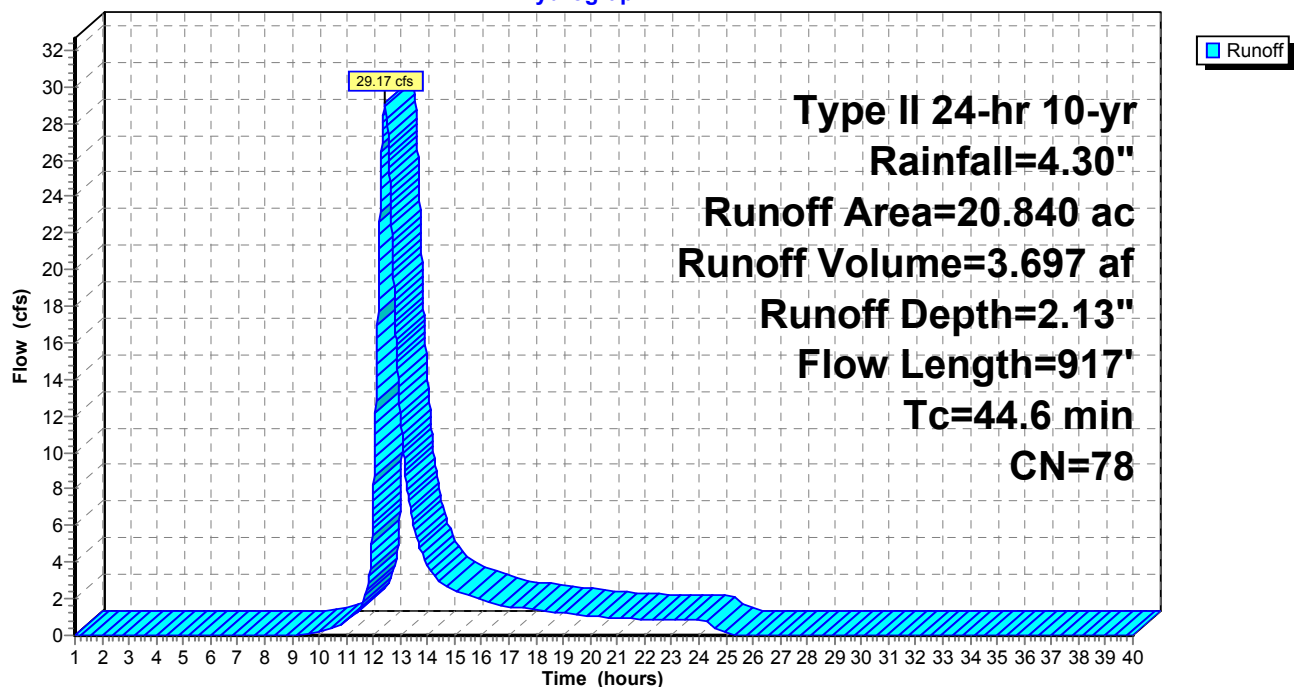
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
20.840	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.6	917	0.0050	0.3		Lag/CN Method,

Subcatchment W135: W135

Hydrograph



Subcatchment w136: w136

Runoff = 7.61 cfs @ 12.00 hrs, Volume= 0.392 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

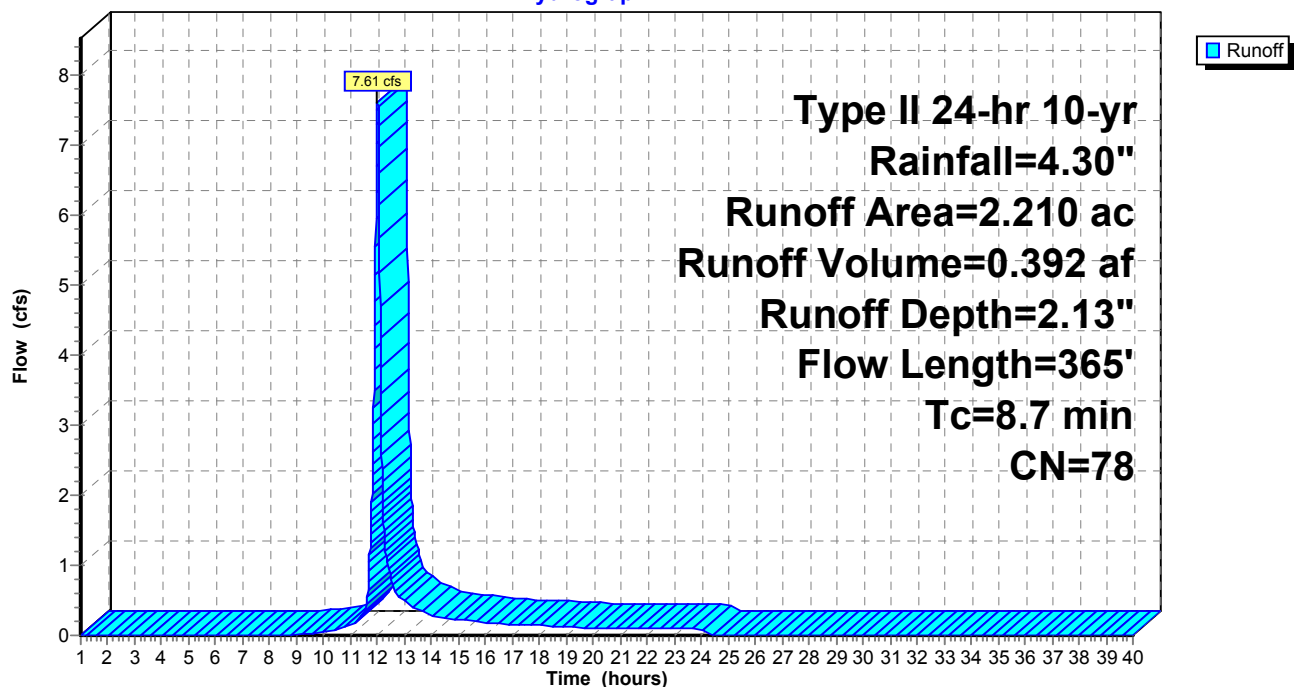
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
2.210	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	365	0.0300	0.7		Lag/CN Method,

Subcatchment w136: w136

Hydrograph



Subcatchment W137: W137

Runoff = 20.21 cfs @ 12.17 hrs, Volume= 1.682 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

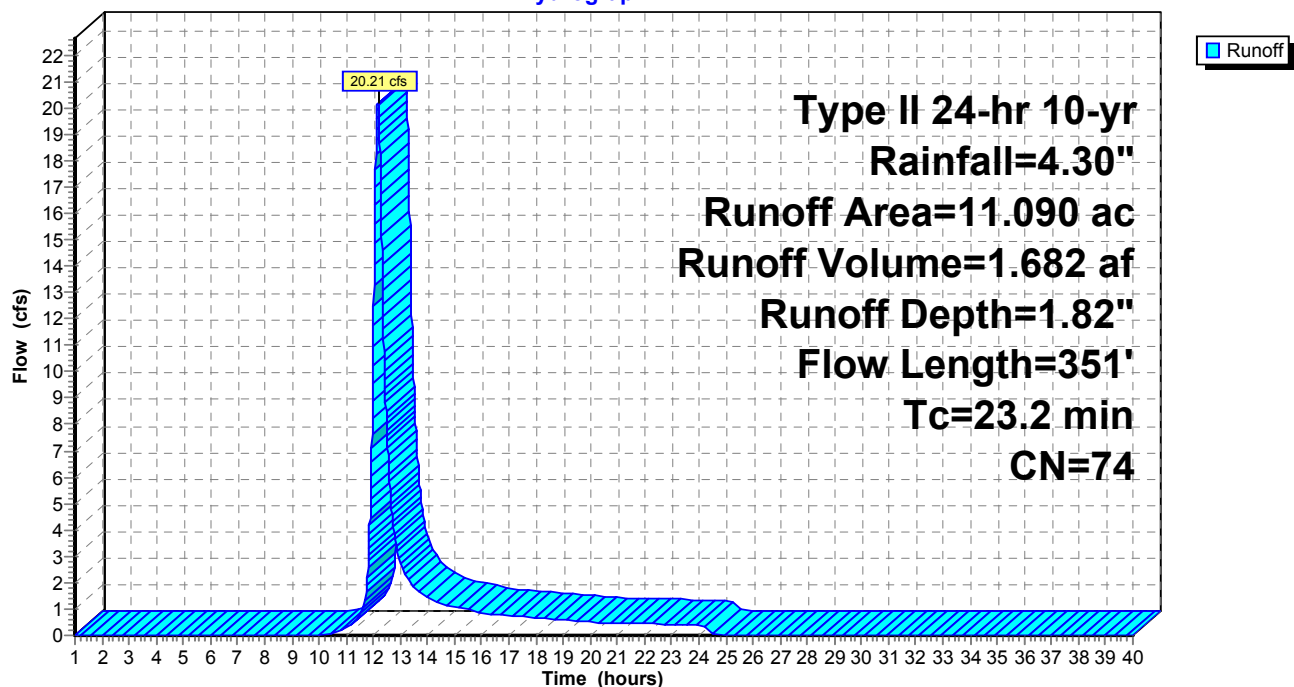
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
11.090	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	351	0.0050	0.3		Lag/CN Method,

Subcatchment W137: W137

Hydrograph



Subcatchment W138: W138

Runoff = 11.49 cfs @ 12.83 hrs, Volume= 2.144 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

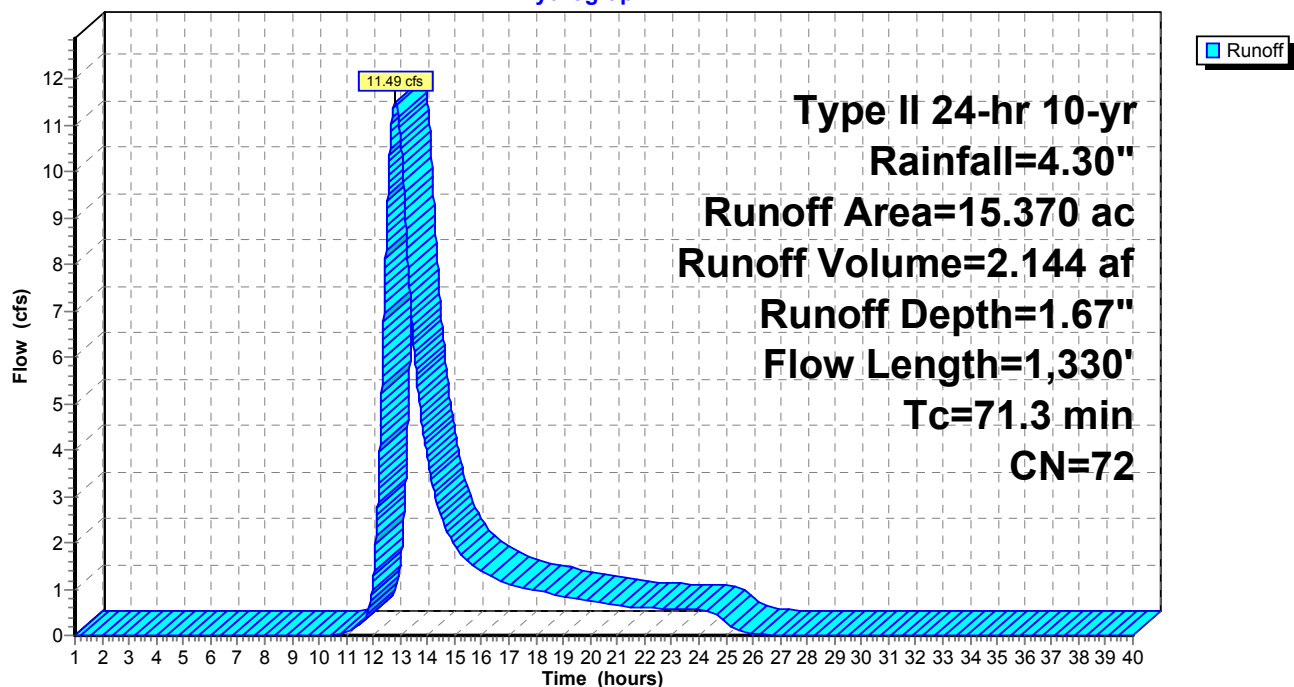
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
15.370	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.3	1,330	0.0050	0.3		Lag/CN Method,

Subcatchment W138: W138

Hydrograph



Subcatchment W139: W139

Runoff = 31.56 cfs @ 12.31 hrs, Volume= 3.486 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

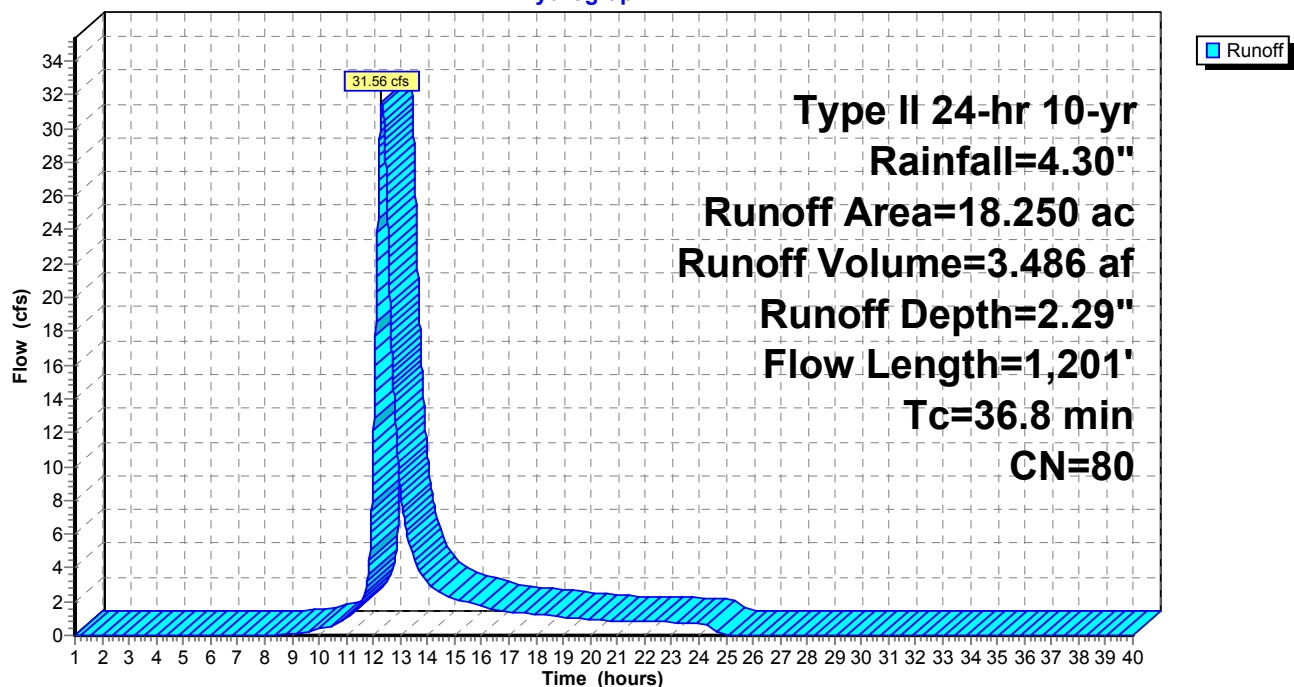
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.250	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	1,201	0.0100	0.5		Lag/CN Method,

Subcatchment W139: W139

Hydrograph



Subcatchment W14: W14

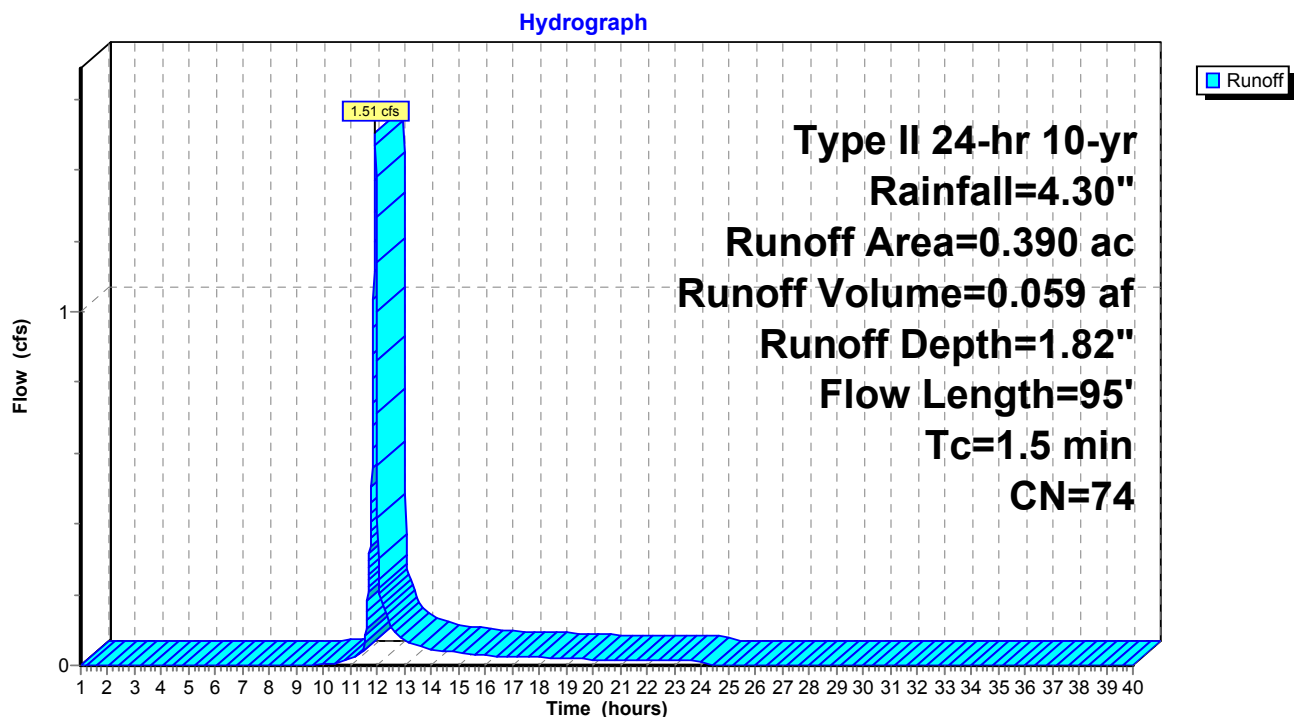
Runoff = 1.51 cfs @ 11.92 hrs, Volume= 0.059 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
0.390	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	95	0.1500	1.1		Lag/CN Method,

Subcatchment W14: W14

Subcatchment W140: W140

Runoff = 1.54 cfs @ 12.05 hrs, Volume= 0.118 af, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

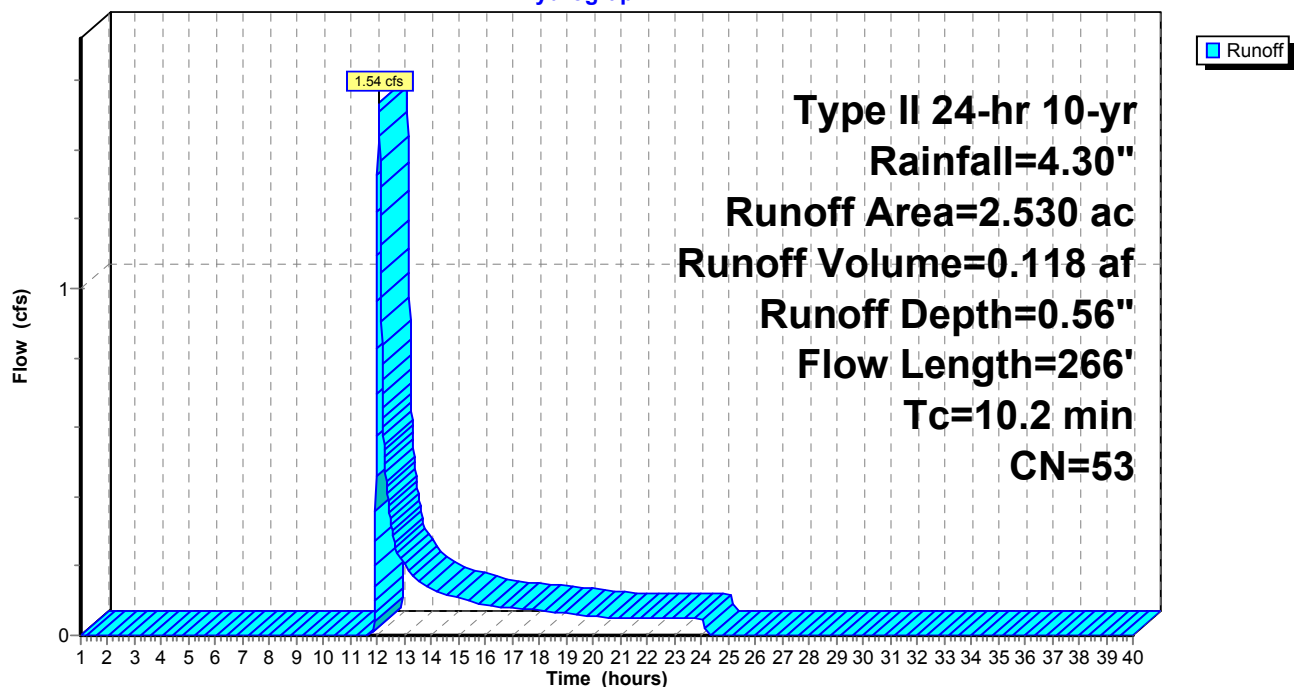
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
2.530	53	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	266	0.0500	0.4		Lag/CN Method,

Subcatchment W140: W140

Hydrograph



Subcatchment W141: W141

Runoff = 47.23 cfs @ 12.09 hrs, Volume= 3.236 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

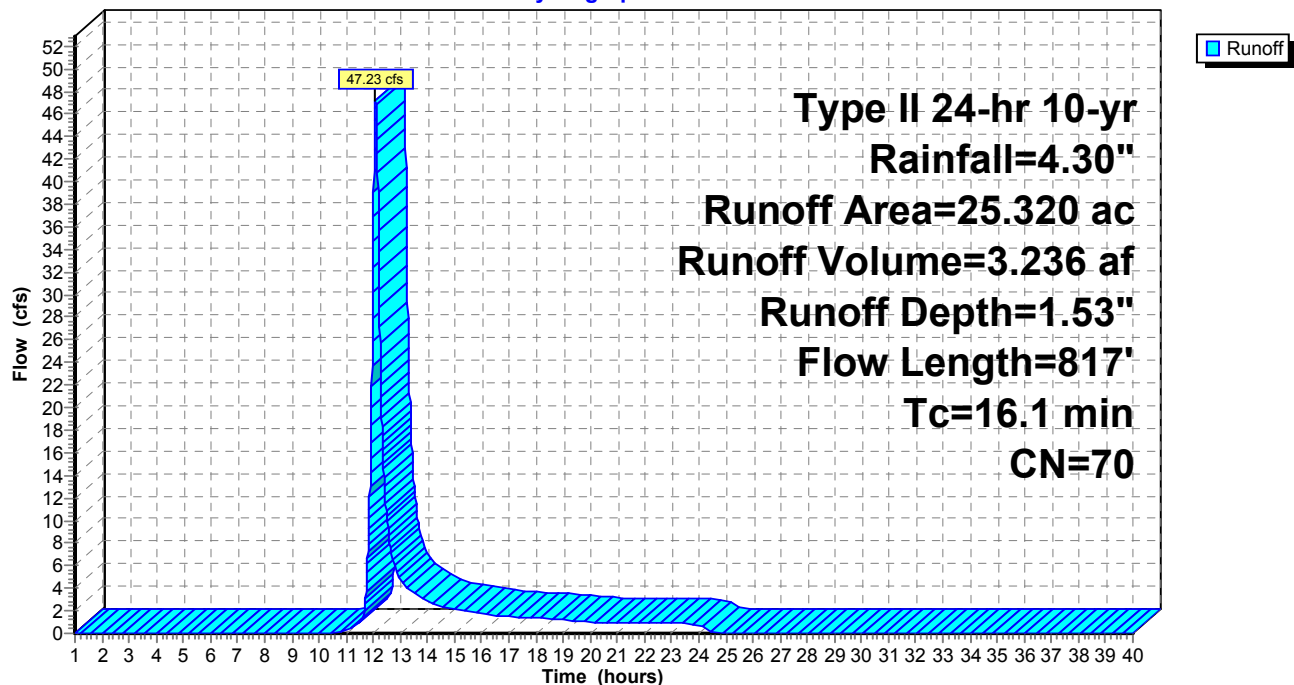
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
25.320	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	817	0.0500	0.8		Lag/CN Method,

Subcatchment W141: W141

Hydrograph



Subcatchment W142: W142

Runoff = 23.90 cfs @ 12.09 hrs, Volume= 1.634 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

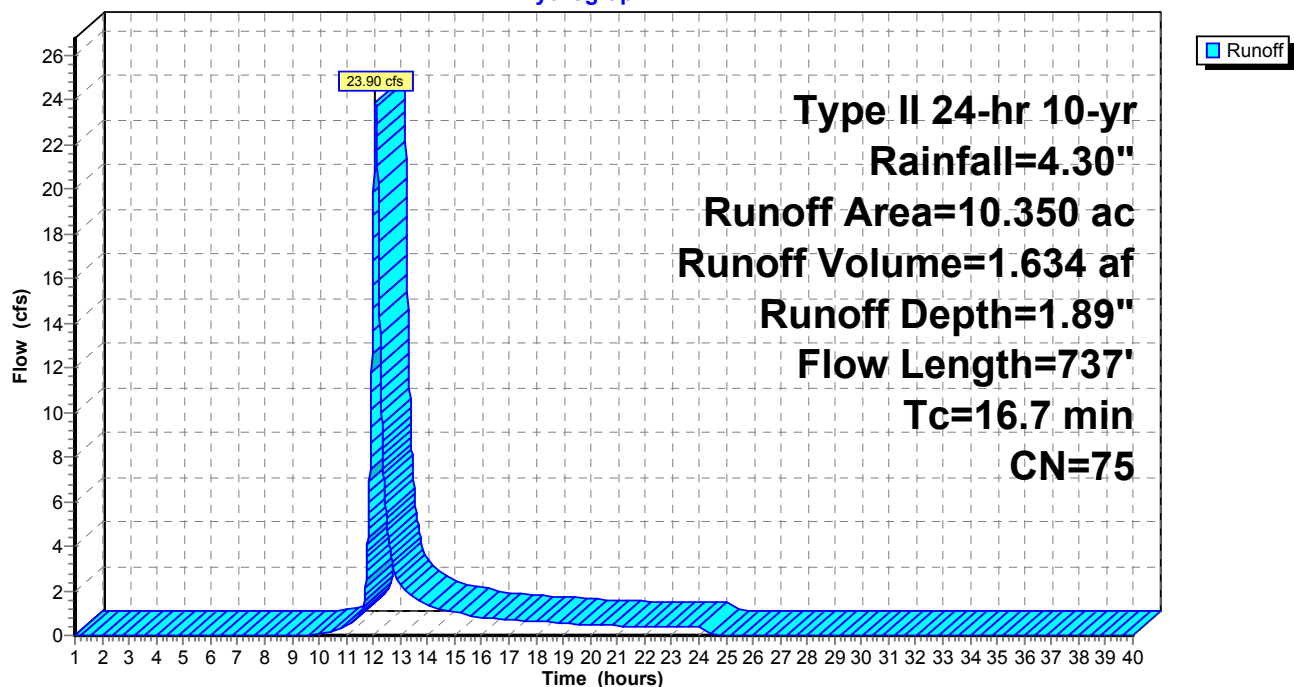
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
10.350	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	737	0.0300	0.7		Lag/CN Method,

Subcatchment W142: W142

Hydrograph



Subcatchment W143: W143

Runoff = 12.83 cfs @ 12.08 hrs, Volume= 0.854 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

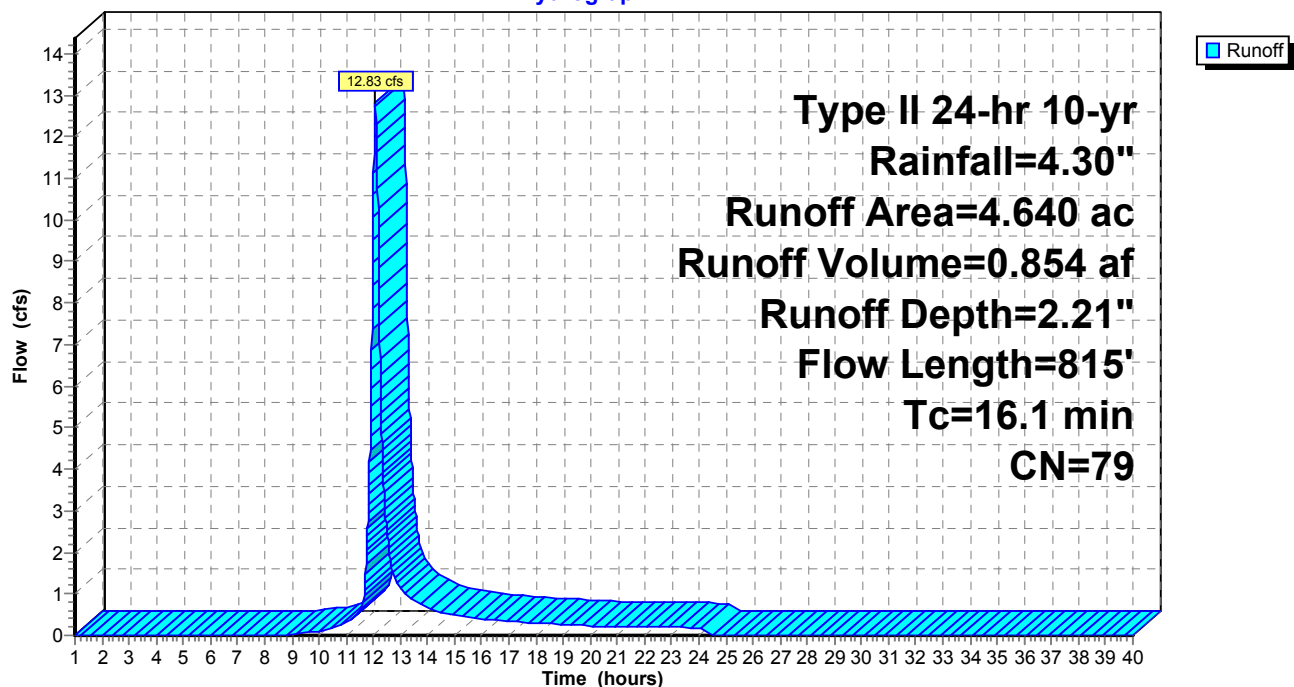
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.640	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	815	0.0300	0.8		Lag/CN Method,

Subcatchment W143: W143

Hydrograph



Subcatchment W144: W144

Runoff = 10.09 cfs @ 12.08 hrs, Volume= 0.663 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

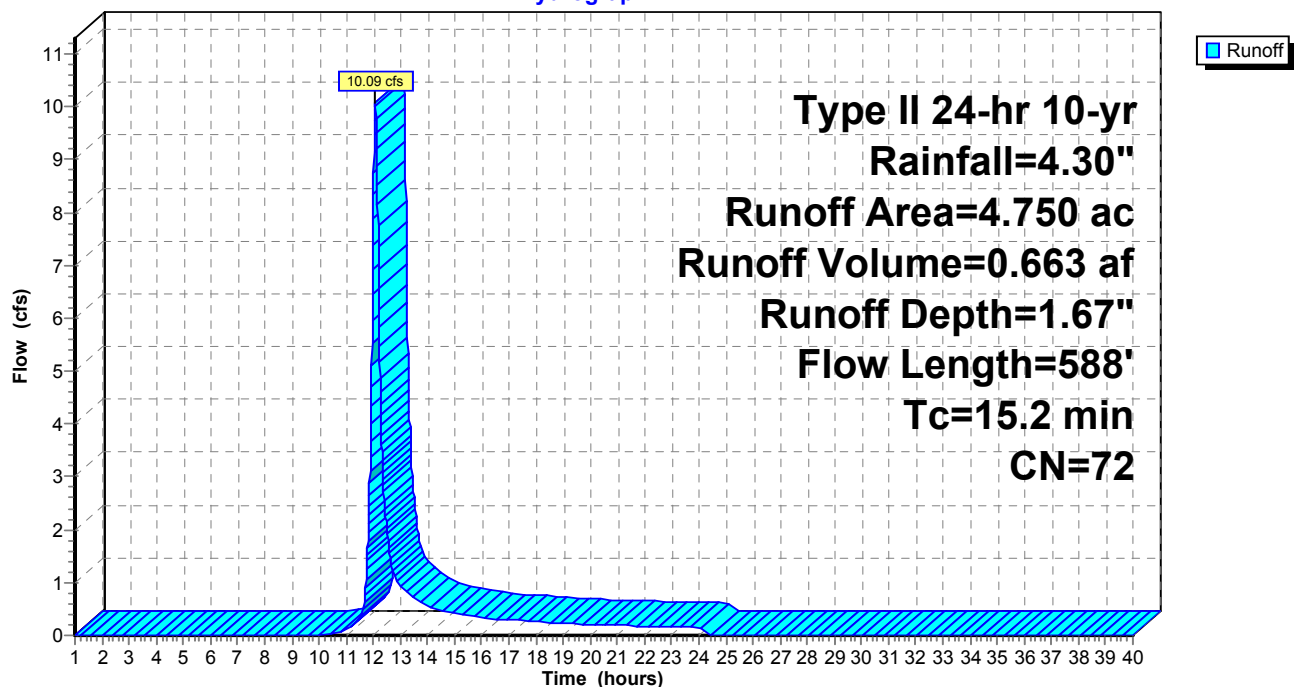
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.750	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	588	0.0300	0.6		Lag/CN Method,

Subcatchment W144: W144

Hydrograph



Subcatchment W145: W145

Runoff = 22.84 cfs @ 12.15 hrs, Volume= 1.840 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

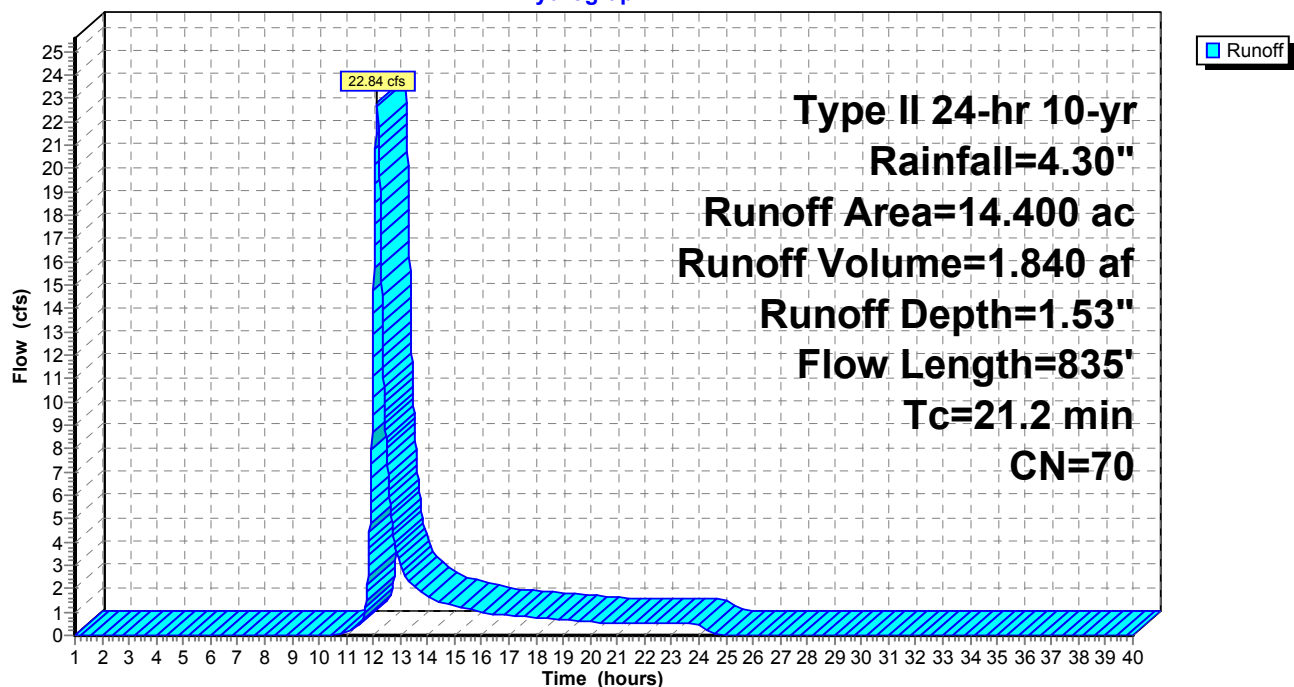
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
14.400	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	835	0.0300	0.7		Lag/CN Method,

Subcatchment W145: W145

Hydrograph



Subcatchment W146: W146

Runoff = 32.46 cfs @ 12.19 hrs, Volume= 2.874 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

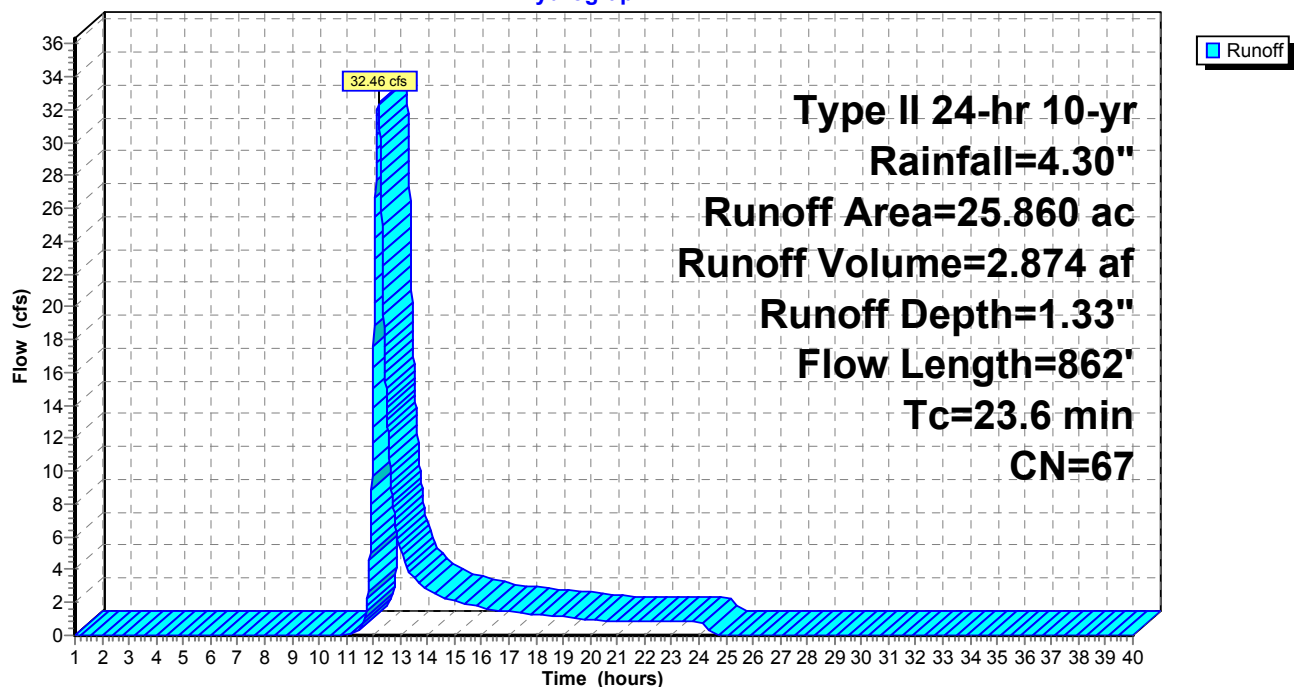
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
25.860	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.6	862	0.0300	0.6		Lag/CN Method,

Subcatchment W146: W146

Hydrograph



Subcatchment W150: W150

Runoff = 32.69 cfs @ 12.25 hrs, Volume= 3.482 af, Depth= 0.97"

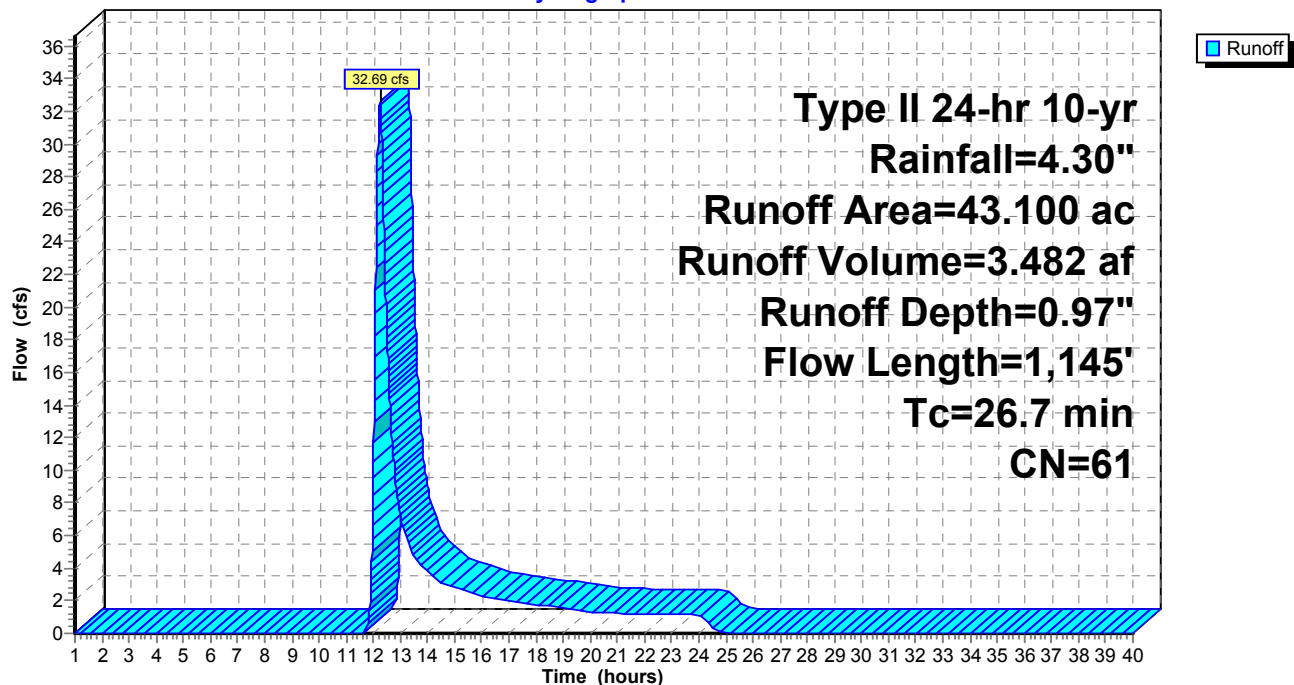
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
43.100	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,145	0.0500	0.7		Lag/CN Method,

Subcatchment W150: W150

Hydrograph



Subcatchment W2: W2

Runoff = 5.15 cfs @ 11.98 hrs, Volume= 0.393 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

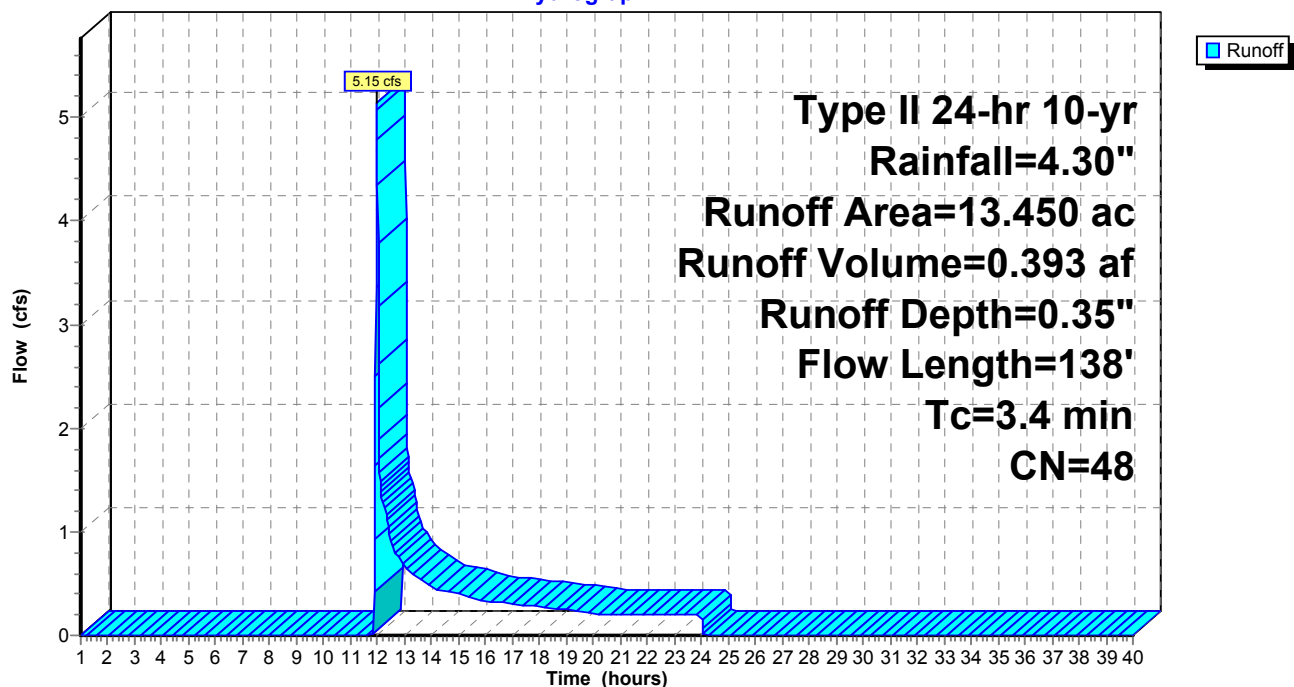
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
13.450	48	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	138	0.2000	0.7		Lag/CN Method,

Subcatchment W2: W2

Hydrograph



Subcatchment W30: W30

Runoff = 42.49 cfs @ 11.97 hrs, Volume= 2.009 af, Depth= 0.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

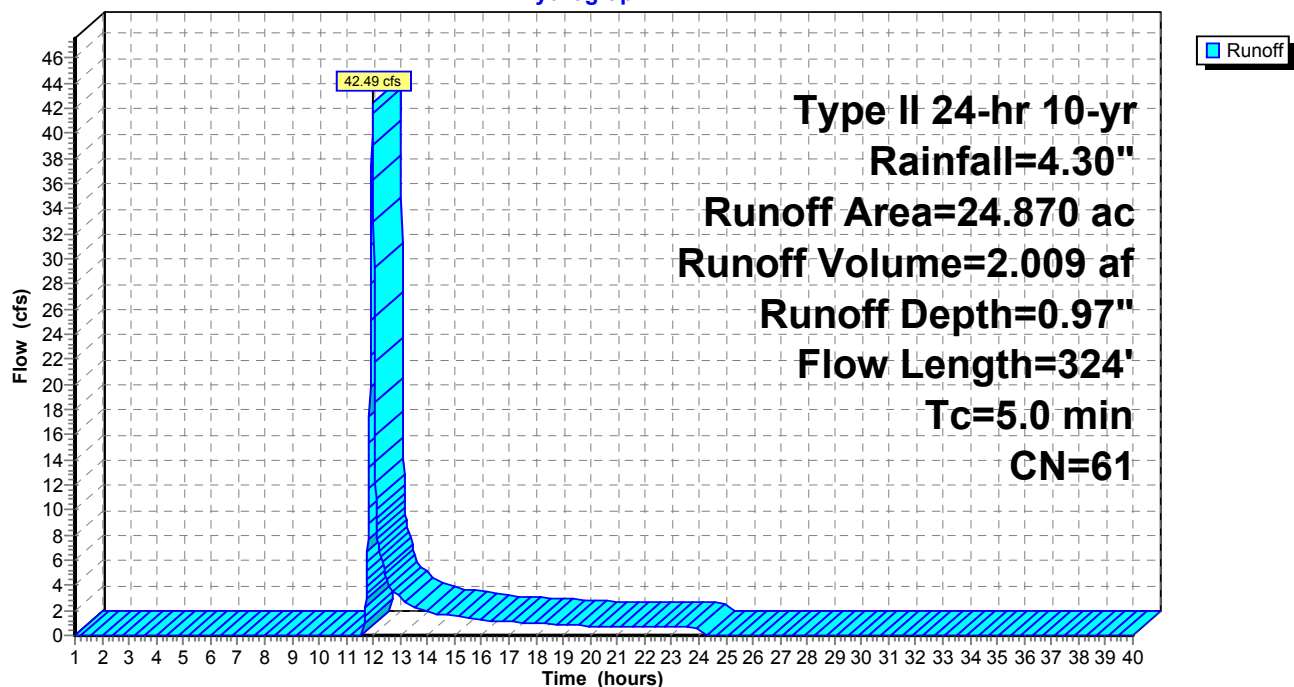
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
24.870	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	324	0.1900	1.1		Lag/CN Method,

Subcatchment W30: W30

Hydrograph



Subcatchment W31: W31

Runoff = 75.97 cfs @ 12.06 hrs, Volume= 4.784 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

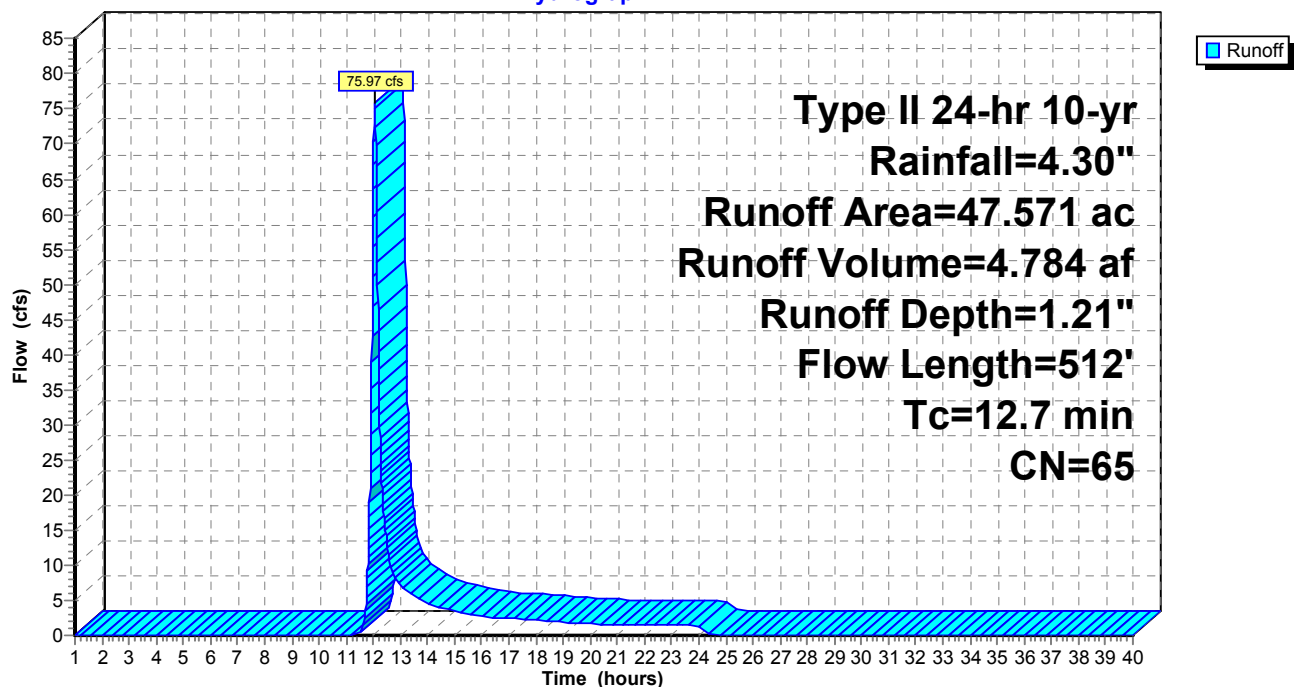
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
47.571	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	512	0.0500	0.7		Lag/CN Method,

Subcatchment W31: W31

Hydrograph



Subcatchment W32: W32

Runoff = 120.81 cfs @ 12.02 hrs, Volume= 6.563 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

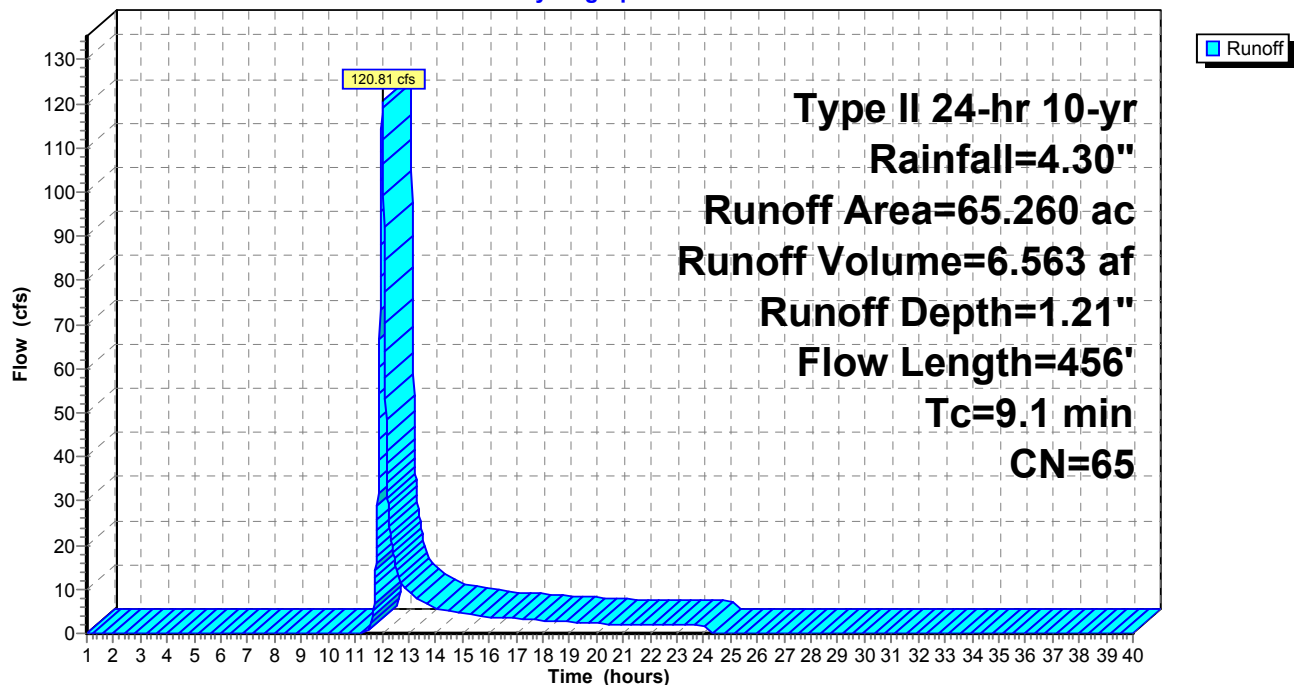
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
65.260	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	456	0.0800	0.8		Lag/CN Method,

Subcatchment W32: W32

Hydrograph



Subcatchment W33: W33

Runoff = 19.91 cfs @ 11.96 hrs, Volume= 0.900 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

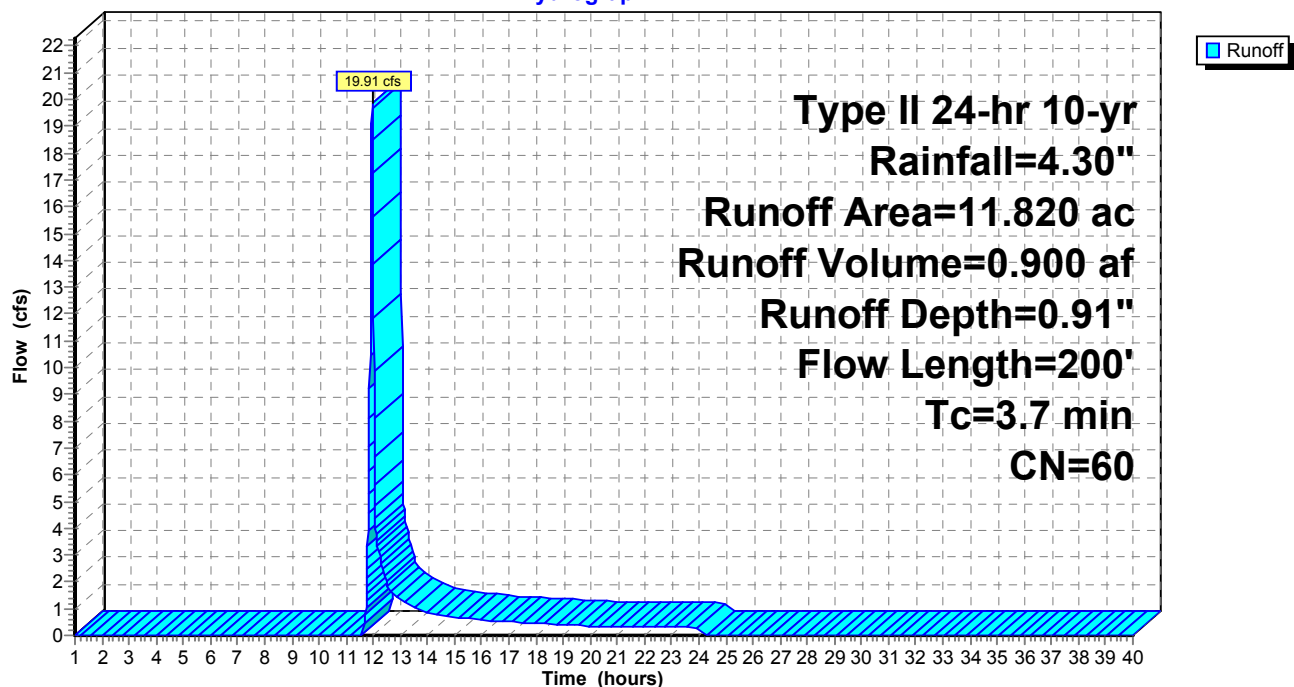
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
11.820	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	200	0.1700	0.9		Lag/CN Method,

Subcatchment W33: W33

Hydrograph



Subcatchment W34: W34

Runoff = 16.62 cfs @ 12.01 hrs, Volume= 0.939 af, Depth= 0.86"

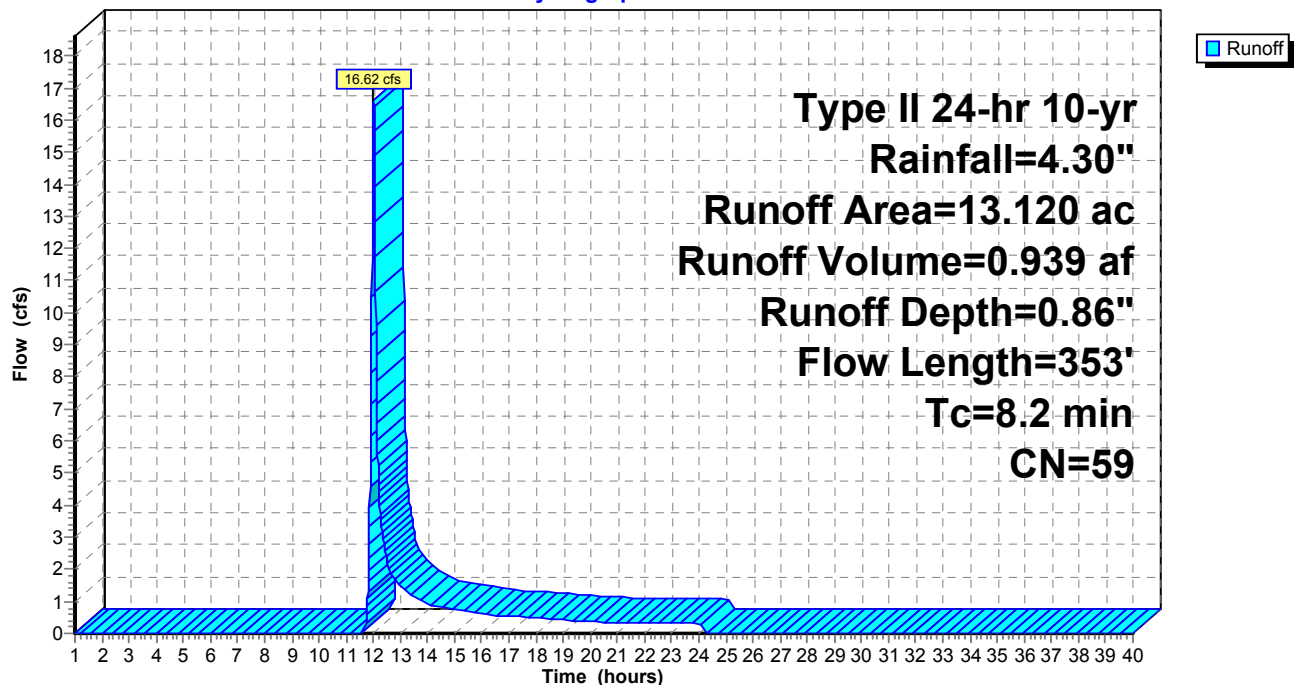
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
13.120	59	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	353	0.0900	0.7		Lag/CN Method,

Subcatchment W34: W34

Hydrograph



Subcatchment W35: W35

Runoff = 8.61 cfs @ 11.96 hrs, Volume= 0.396 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

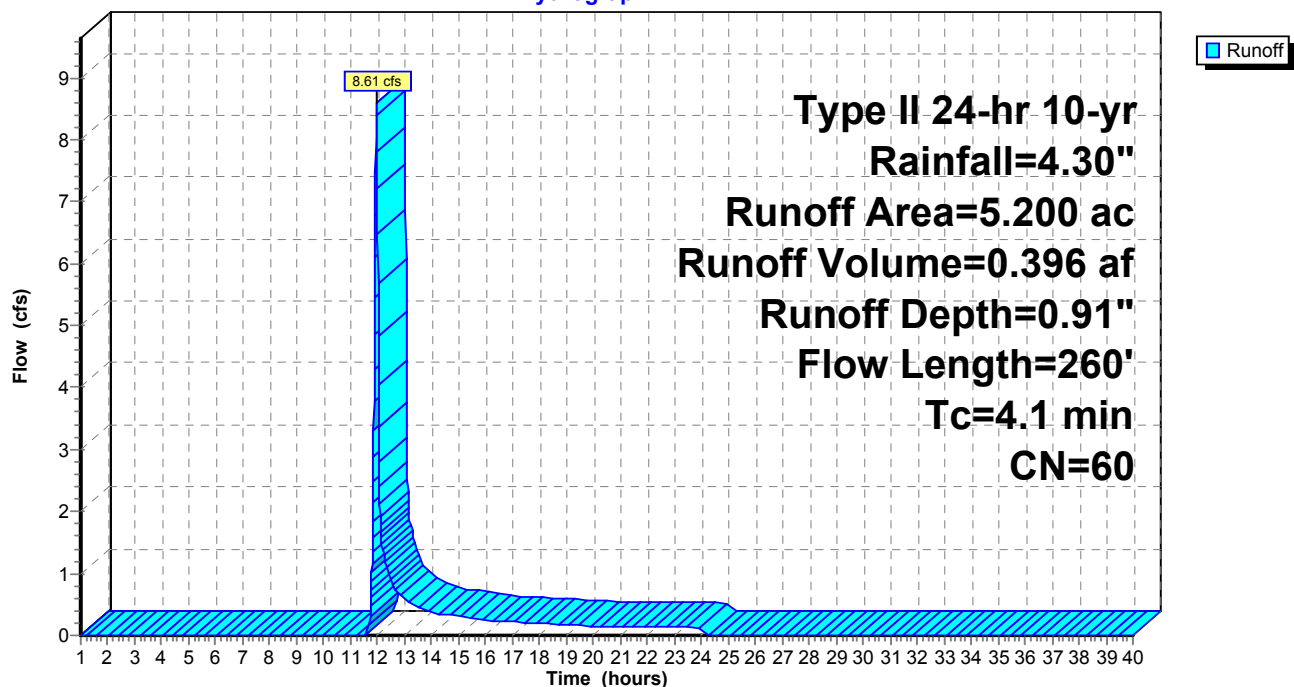
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.200	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	260	0.2100	1.1		Lag/CN Method,

Subcatchment W35: W35

Hydrograph



Subcatchment W36: W36

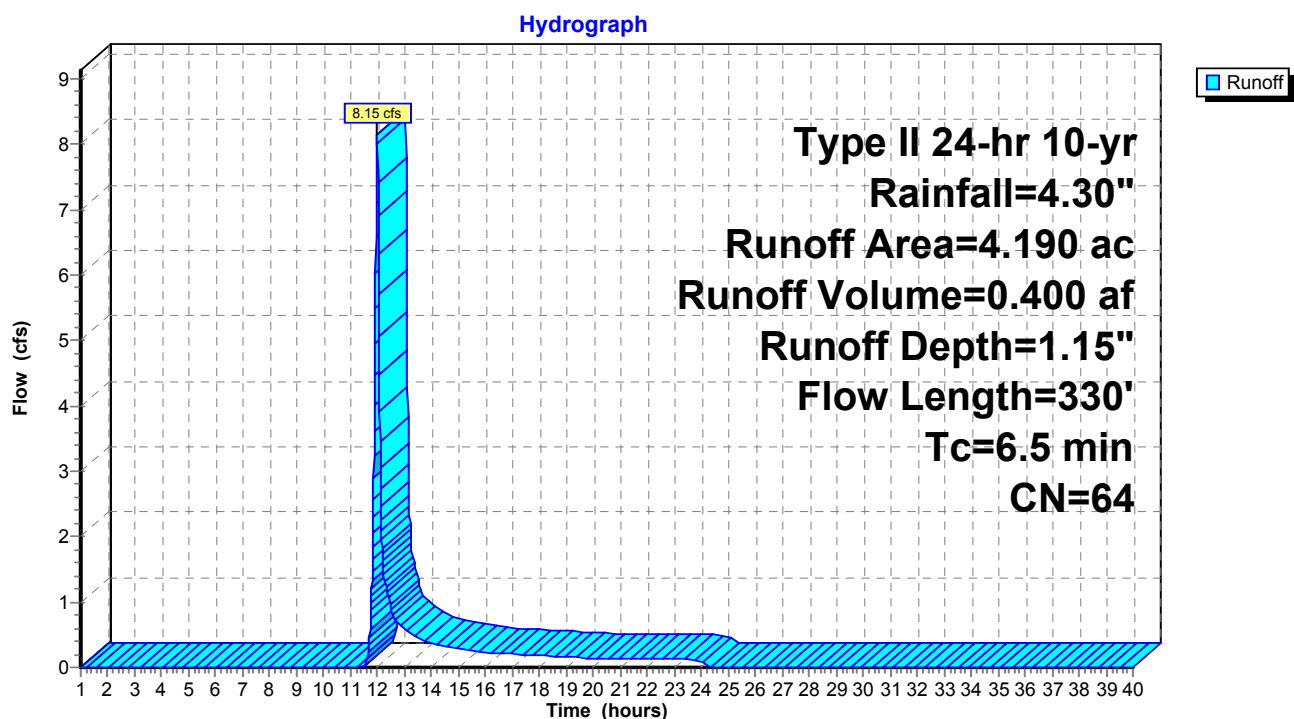
Runoff = 8.15 cfs @ 11.99 hrs, Volume= 0.400 af, Depth= 1.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.190	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	330	0.1000	0.9		Lag/CN Method,

Subcatchment W36: W36

Subcatchment W37: W37

Runoff = 4.76 cfs @ 12.02 hrs, Volume= 0.284 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

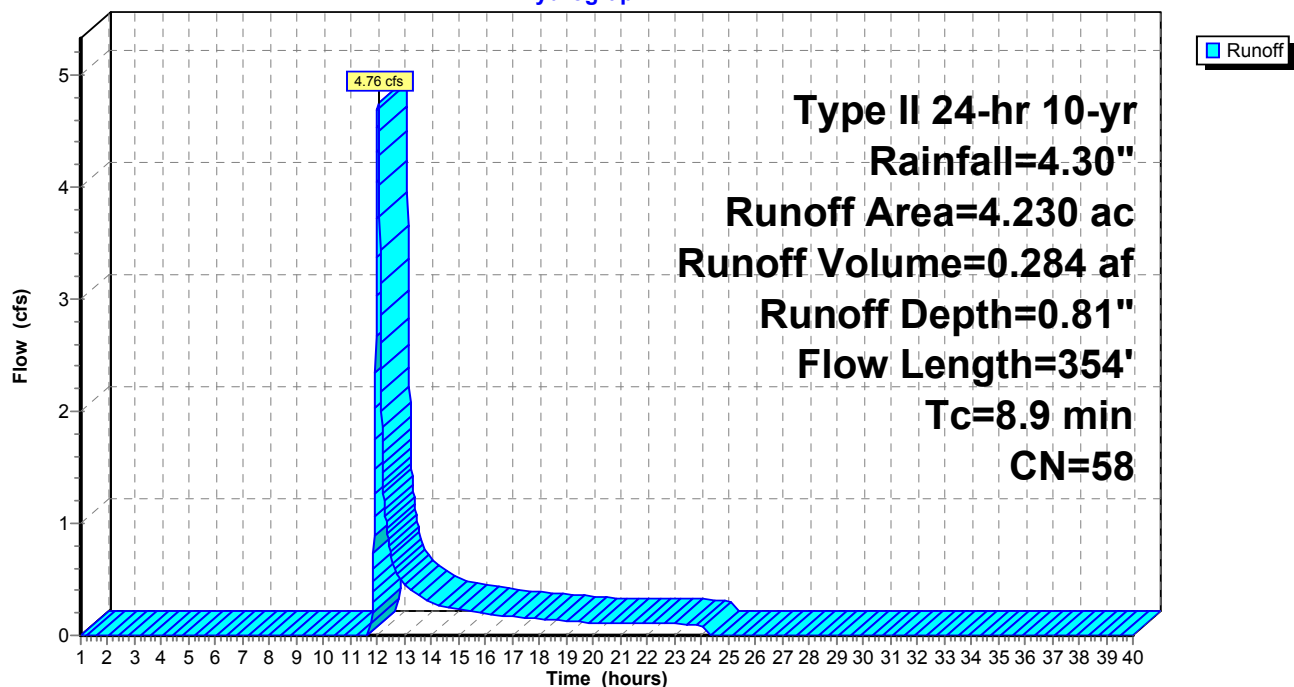
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.230	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	354	0.0800	0.7		Lag/CN Method,

Subcatchment W37: W37

Hydrograph



Subcatchment W38: W38

Runoff = 31.15 cfs @ 11.96 hrs, Volume= 1.378 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

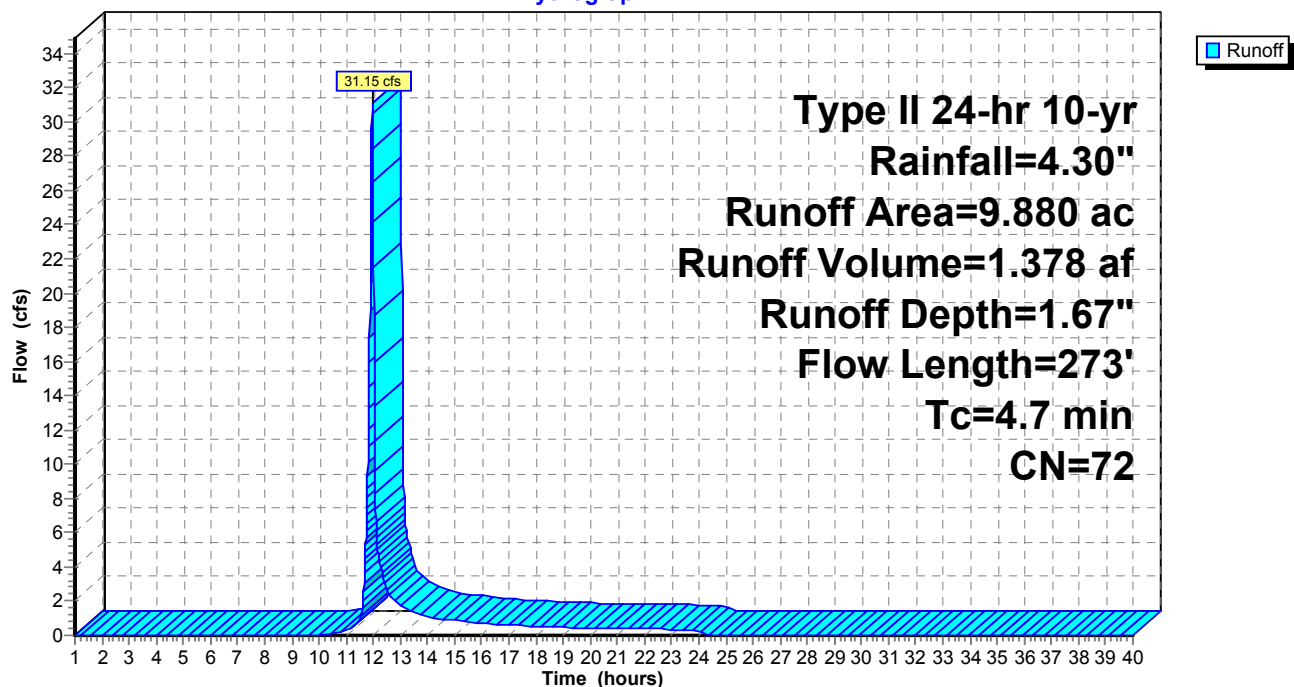
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.880	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	273	0.0900	1.0		Lag/CN Method,

Subcatchment W38: W38

Hydrograph



Subcatchment W39: W39

Runoff = 18.00 cfs @ 12.02 hrs, Volume= 1.029 af, Depth= 0.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

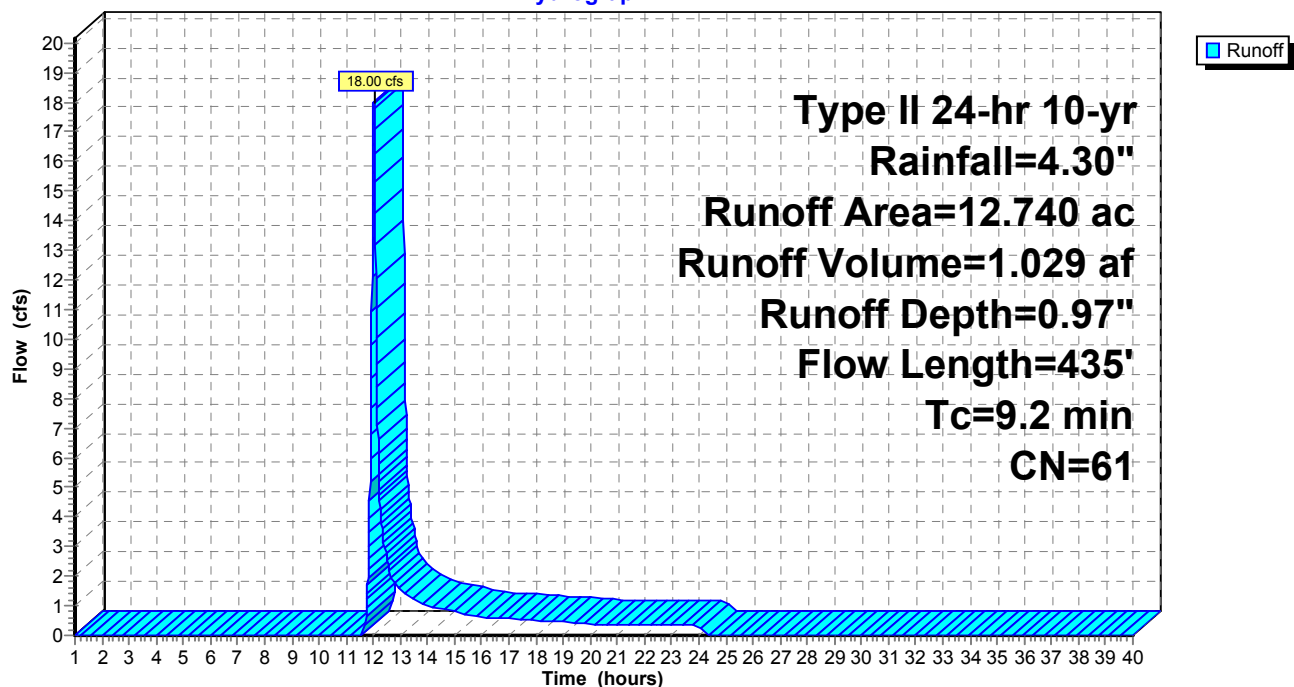
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
12.740	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	435	0.0900	0.8		Lag/CN Method,

Subcatchment W39: W39

Hydrograph



Subcatchment W40: W40

Runoff = 78.73 cfs @ 11.95 hrs, Volume= 3.419 af, Depth= 2.21"

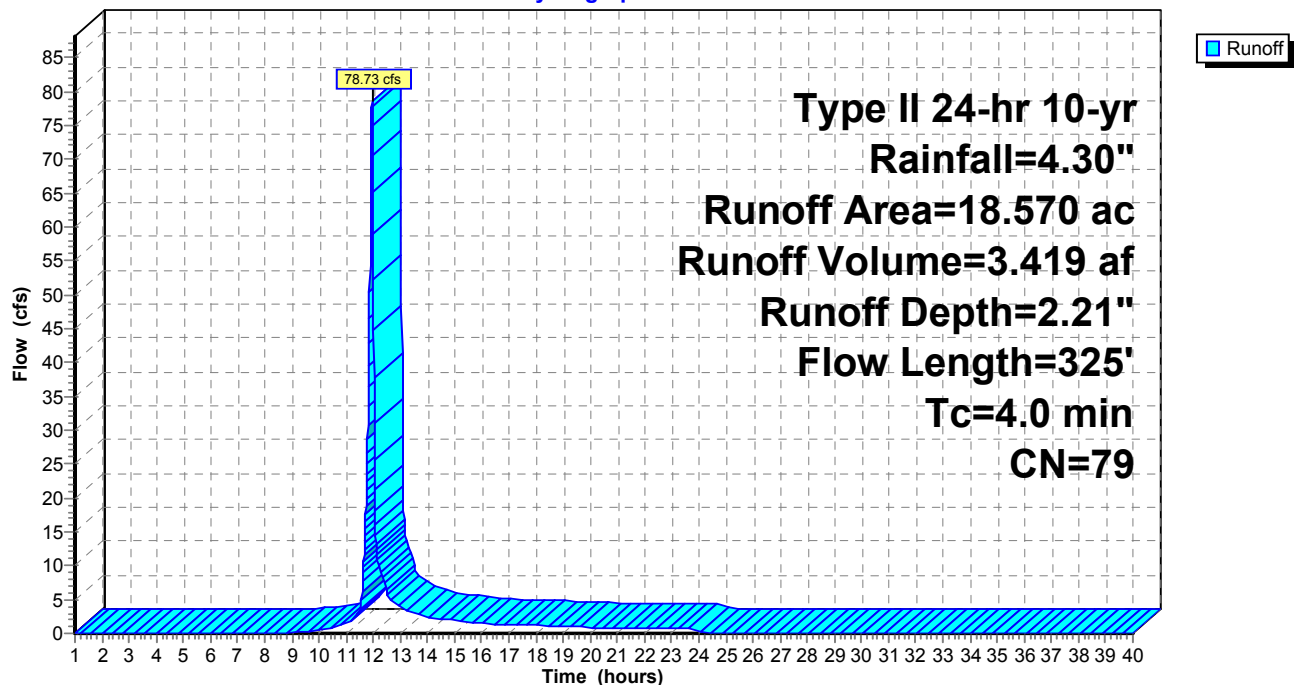
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.570	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	325	0.1100	1.3		Lag/CN Method,

Subcatchment W40: W40

Hydrograph



Subcatchment W41: W41

Runoff = 17.11 cfs @ 11.99 hrs, Volume= 0.834 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

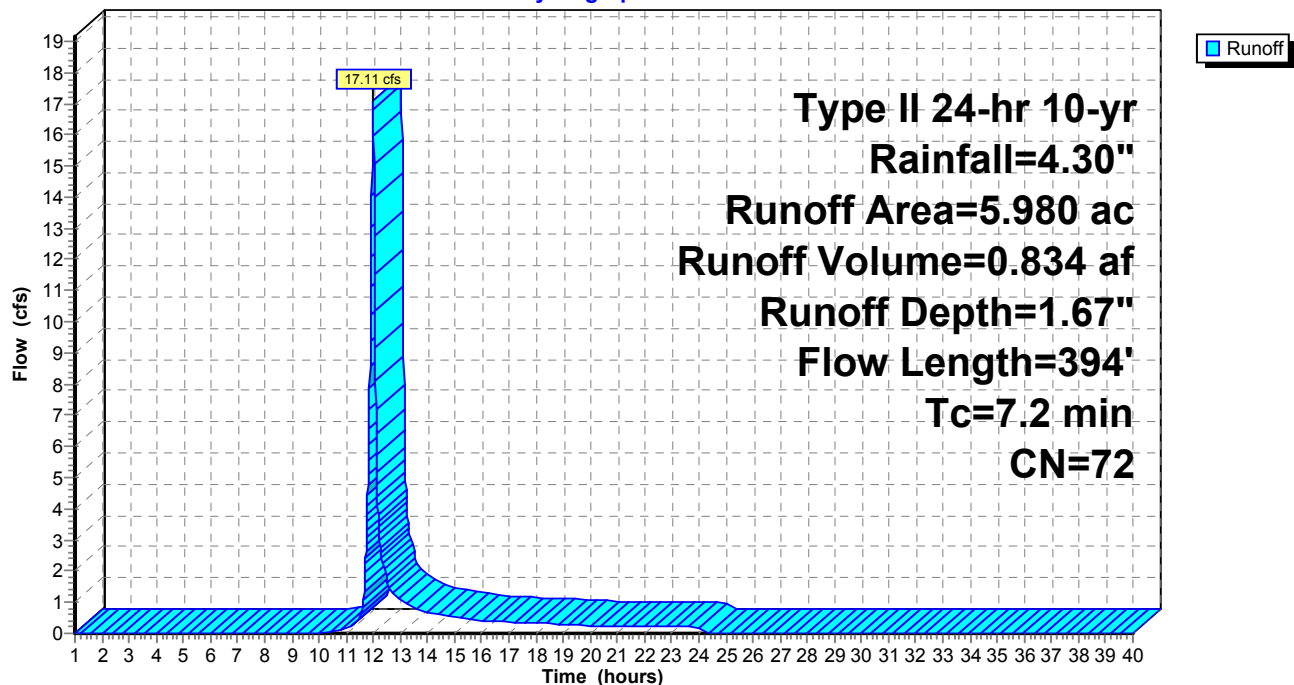
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.980	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	394	0.0700	0.9		Lag/CN Method,

Subcatchment W41: W41

Hydrograph



Subcatchment W42: W42

Runoff = 15.74 cfs @ 11.94 hrs, Volume= 0.653 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

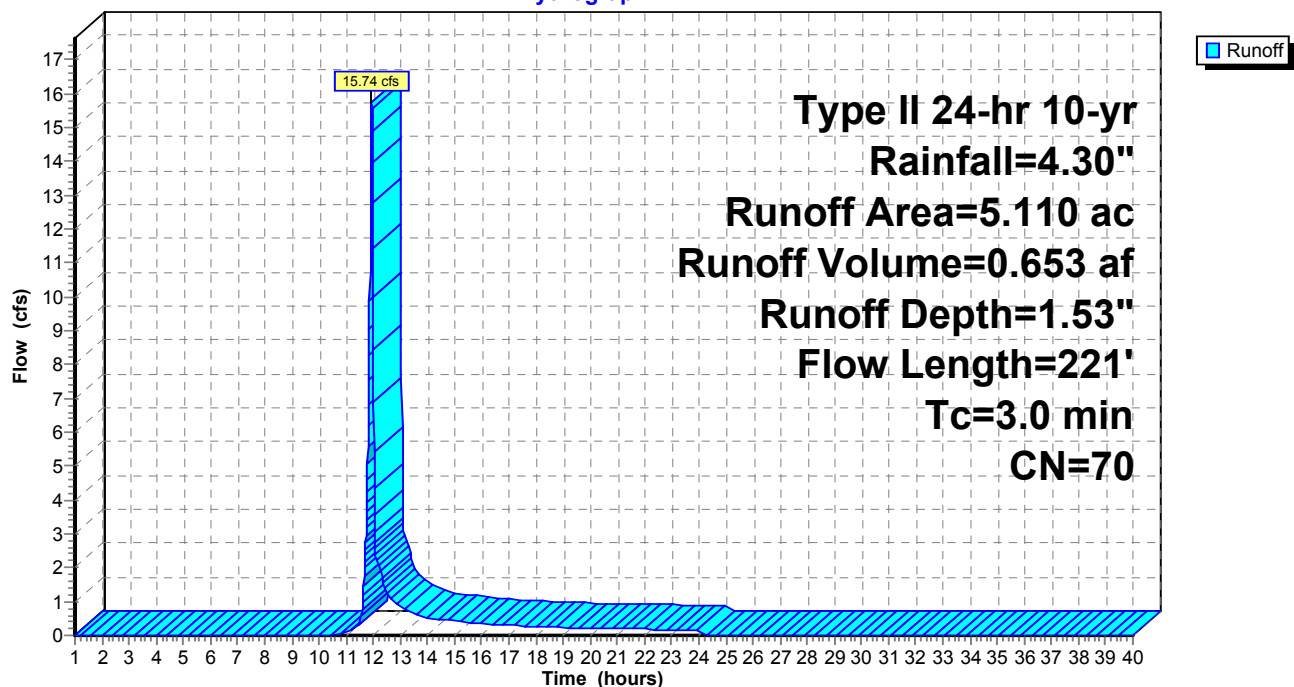
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.110	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	221	0.1800	1.2		Lag/CN Method,

Subcatchment W42: W42

Hydrograph



Subcatchment W43: W43

Runoff = 12.57 cfs @ 12.04 hrs, Volume= 0.733 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

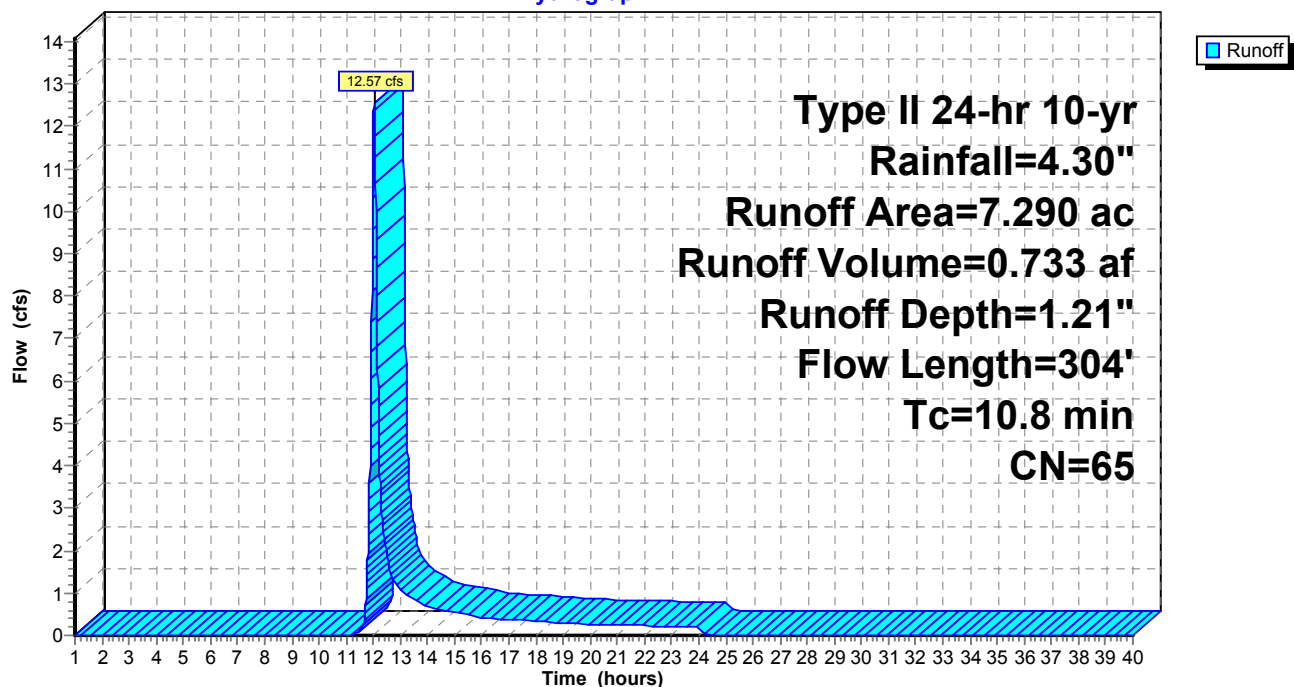
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.290	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	304	0.0300	0.5		Lag/CN Method,

Subcatchment W43: W43

Hydrograph



Subcatchment W44: W44

Runoff = 11.19 cfs @ 12.12 hrs, Volume= 0.839 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

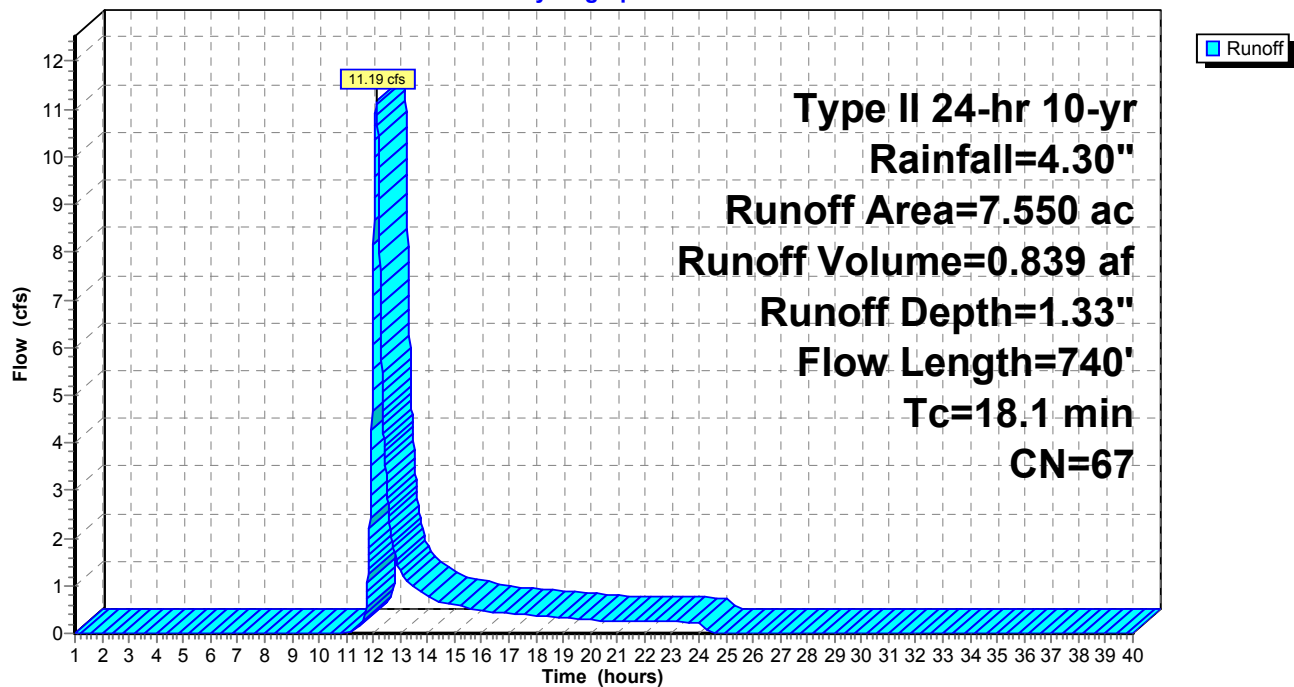
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.550	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.1	740	0.0400	0.7		Lag/CN Method,

Subcatchment W44: W44

Hydrograph



Subcatchment W45: W45

Runoff = 20.66 cfs @ 11.97 hrs, Volume= 0.942 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

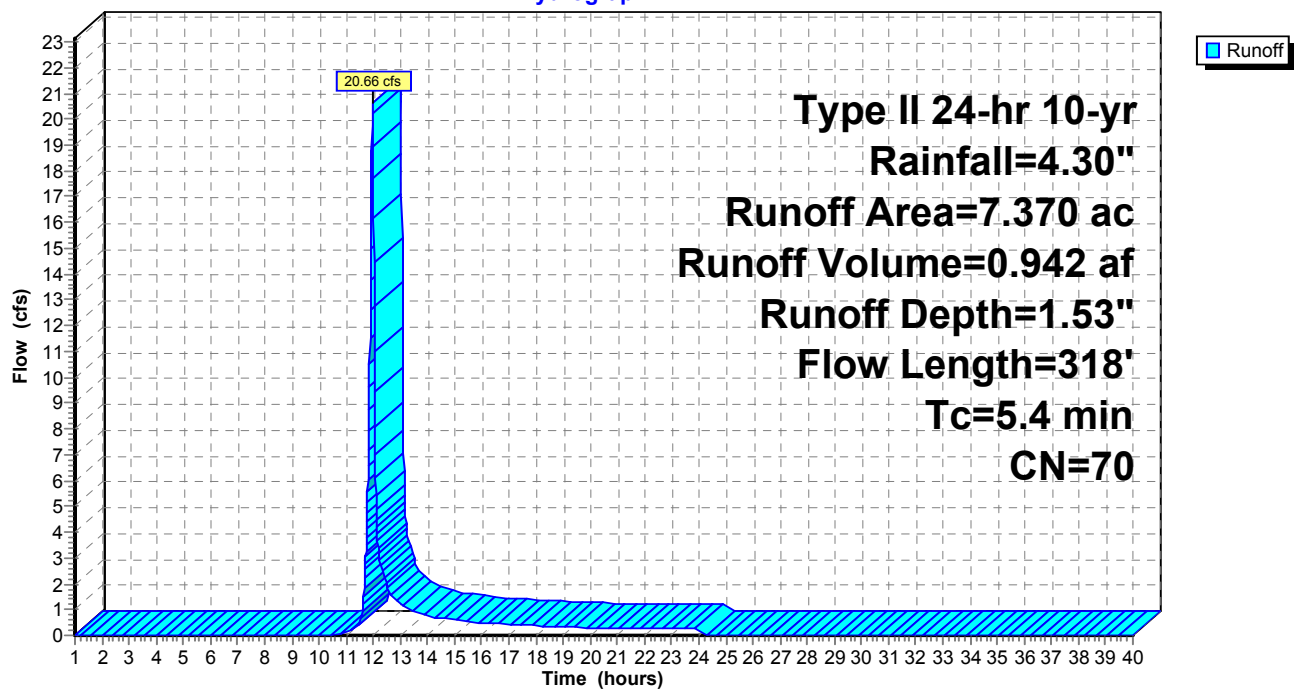
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.370	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.4	318	0.1000	1.0		Lag/CN Method,

Subcatchment W45: W45

Hydrograph



Subcatchment W46: W46

Runoff = 26.15 cfs @ 12.14 hrs, Volume= 2.039 af, Depth= 1.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

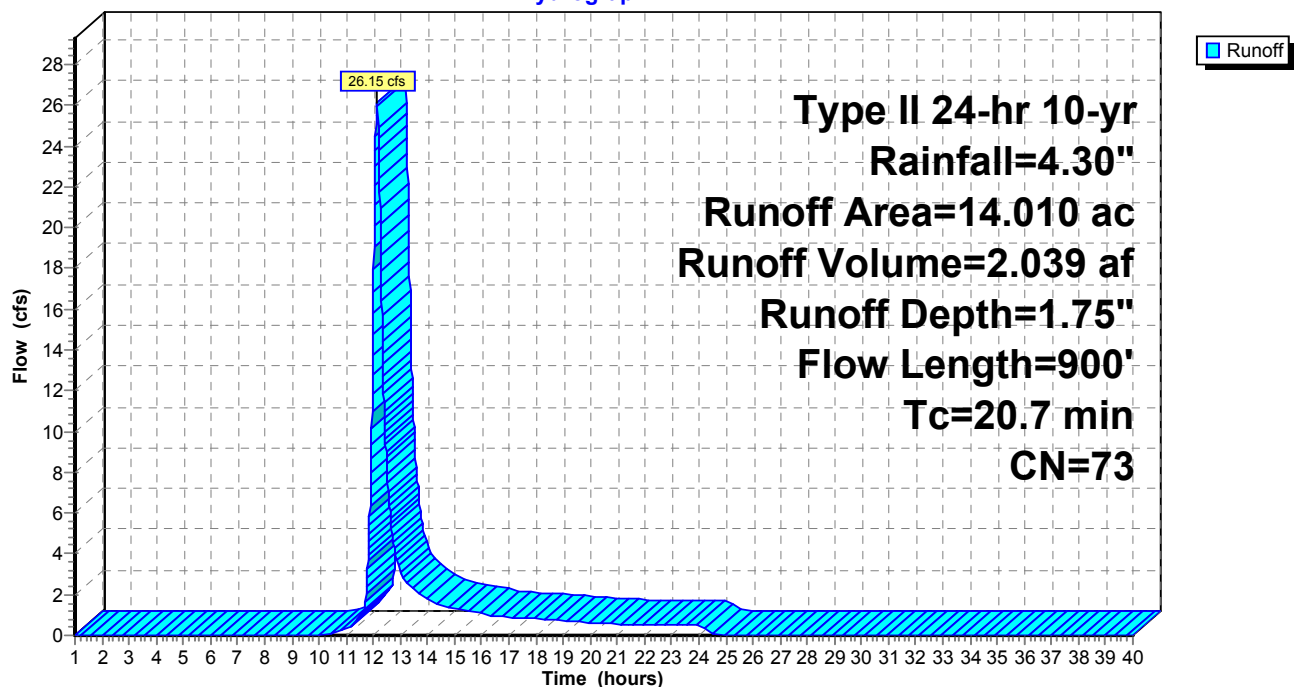
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
14.010	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.7	900	0.0300	0.7		Lag/CN Method,

Subcatchment W46: W46

Hydrograph



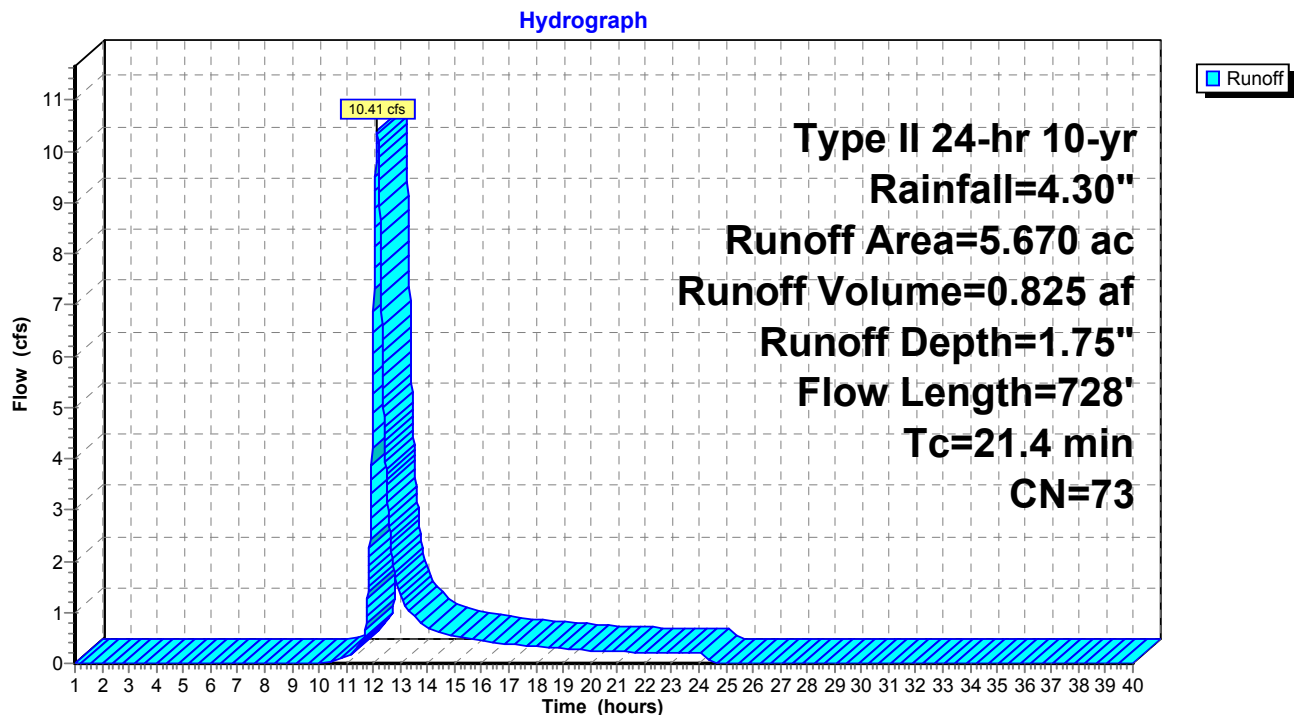
Subcatchment W47: W47

Runoff = 10.41 cfs @ 12.15 hrs, Volume= 0.825 af, Depth= 1.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.670	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.4	728	0.0200	0.6		Lag/CN Method,

Subcatchment W47: W47

Subcatchment W48: W48

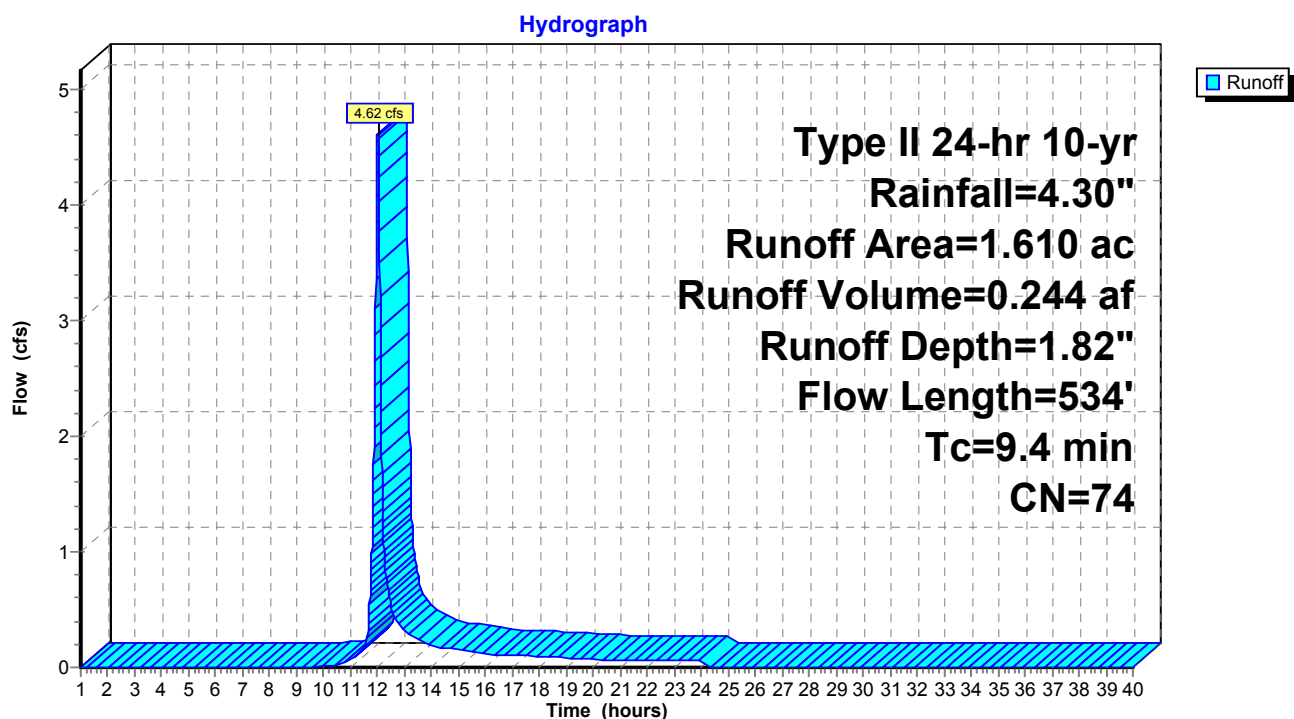
Runoff = 4.62 cfs @ 12.02 hrs, Volume= 0.244 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
1.610	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	534	0.0600	0.9		Lag/CN Method,

Subcatchment W48: W48

Subcatchment W49: W49

Runoff = 33.60 cfs @ 11.99 hrs, Volume= 1.647 af, Depth= 2.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

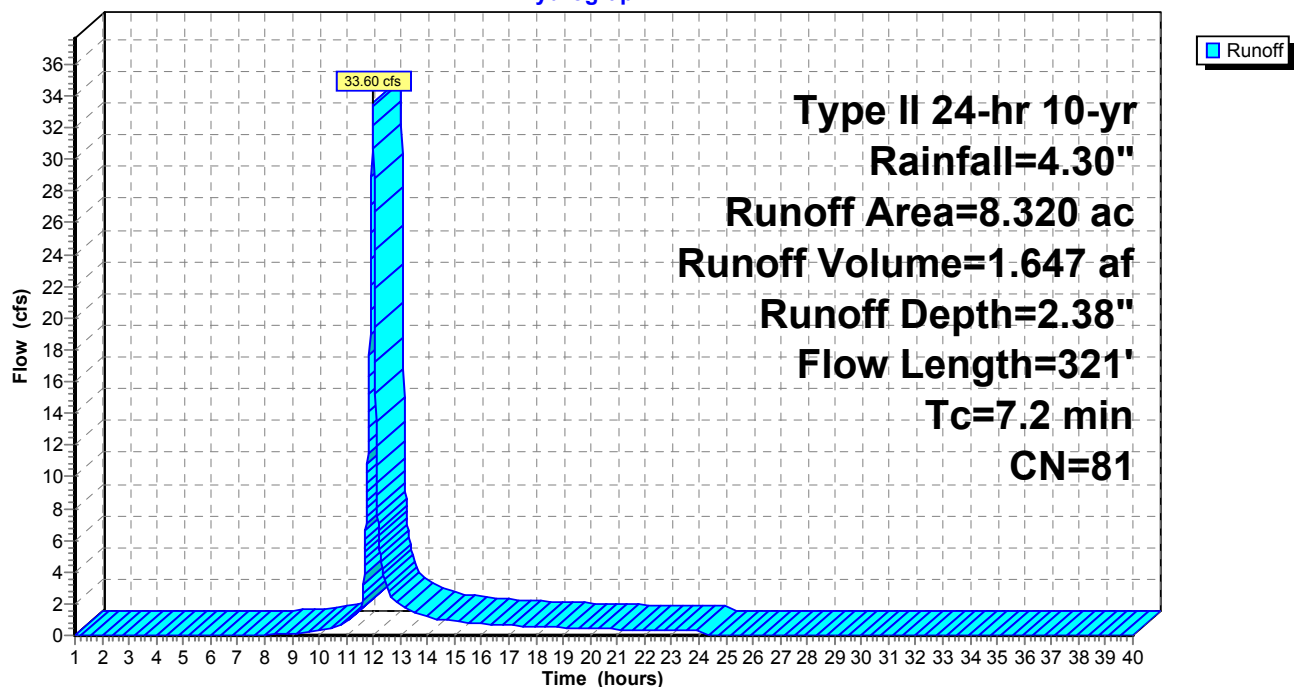
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.320	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	321	0.0300	0.7		Lag/CN Method,

Subcatchment W49: W49

Hydrograph



Subcatchment W50: W50

Runoff = 37.99 cfs @ 12.26 hrs, Volume= 3.727 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

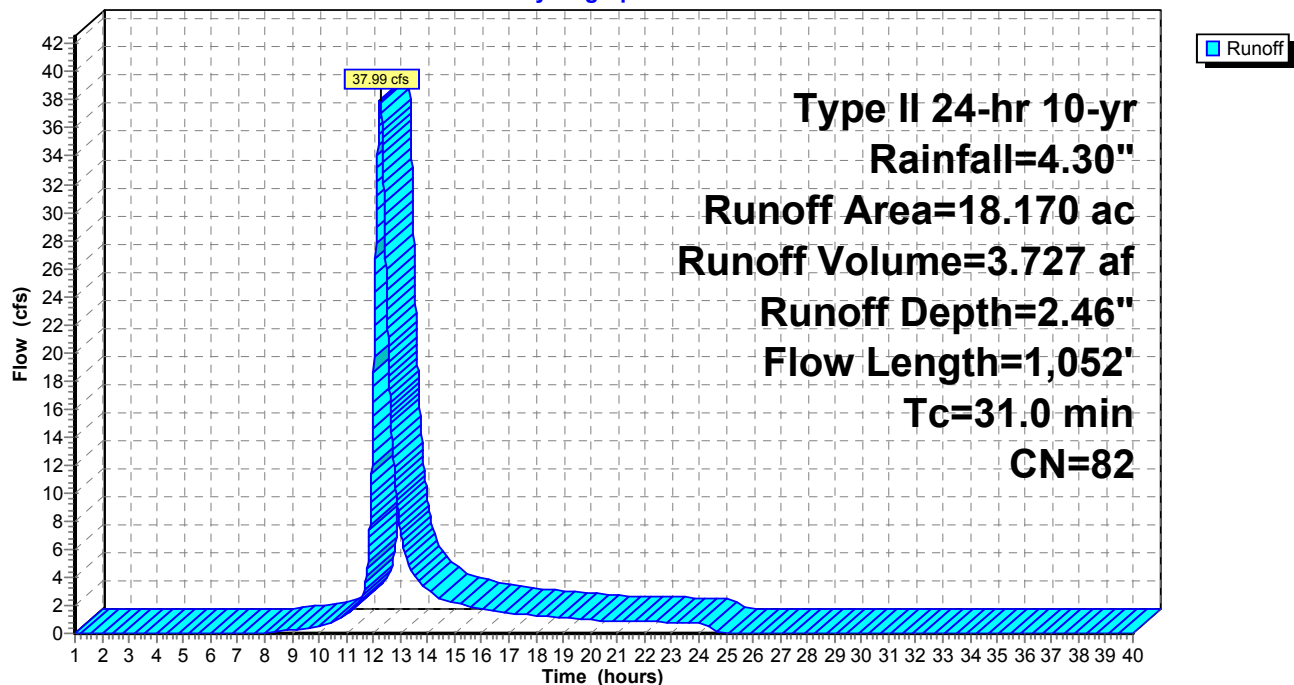
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.170	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	1,052	0.0100	0.6		Lag/CN Method,

Subcatchment W50: W50

Hydrograph



Subcatchment W51: W51

Runoff = 16.88 cfs @ 12.04 hrs, Volume= 0.992 af, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

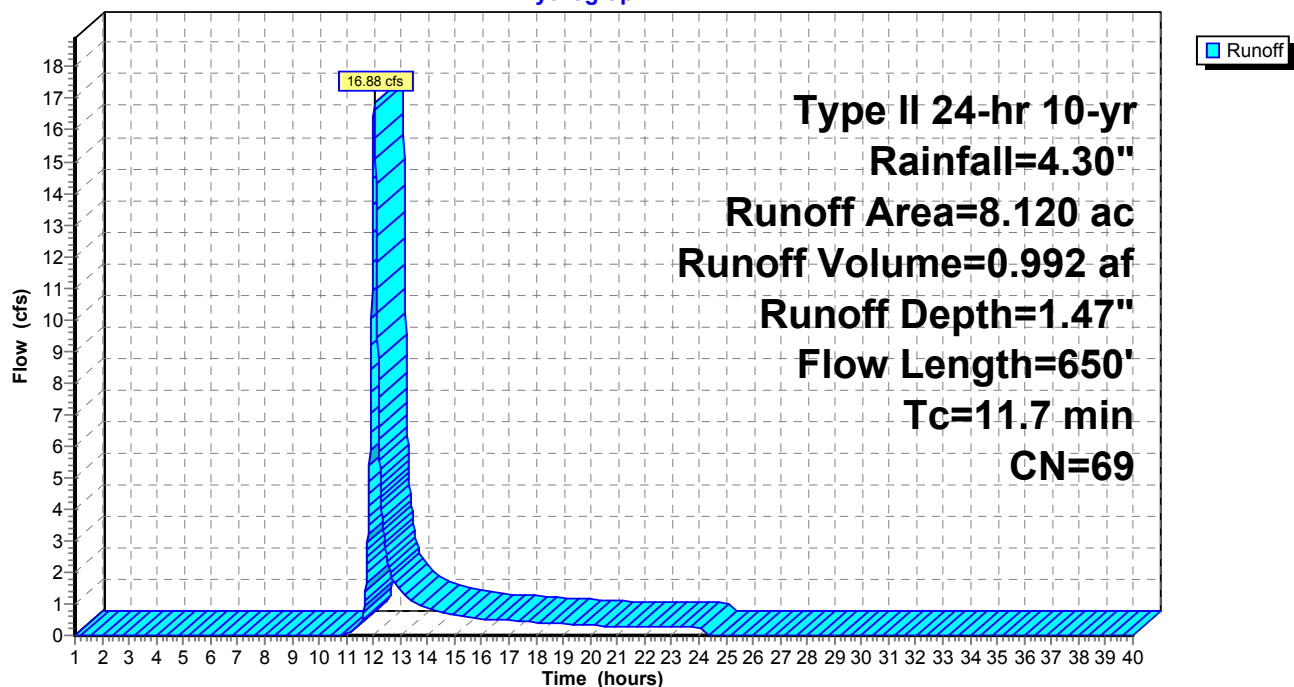
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.120	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	650	0.0700	0.9		Lag/CN Method,

Subcatchment W51: W51

Hydrograph



Subcatchment W52: W52

Runoff = 18.58 cfs @ 12.00 hrs, Volume= 0.949 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

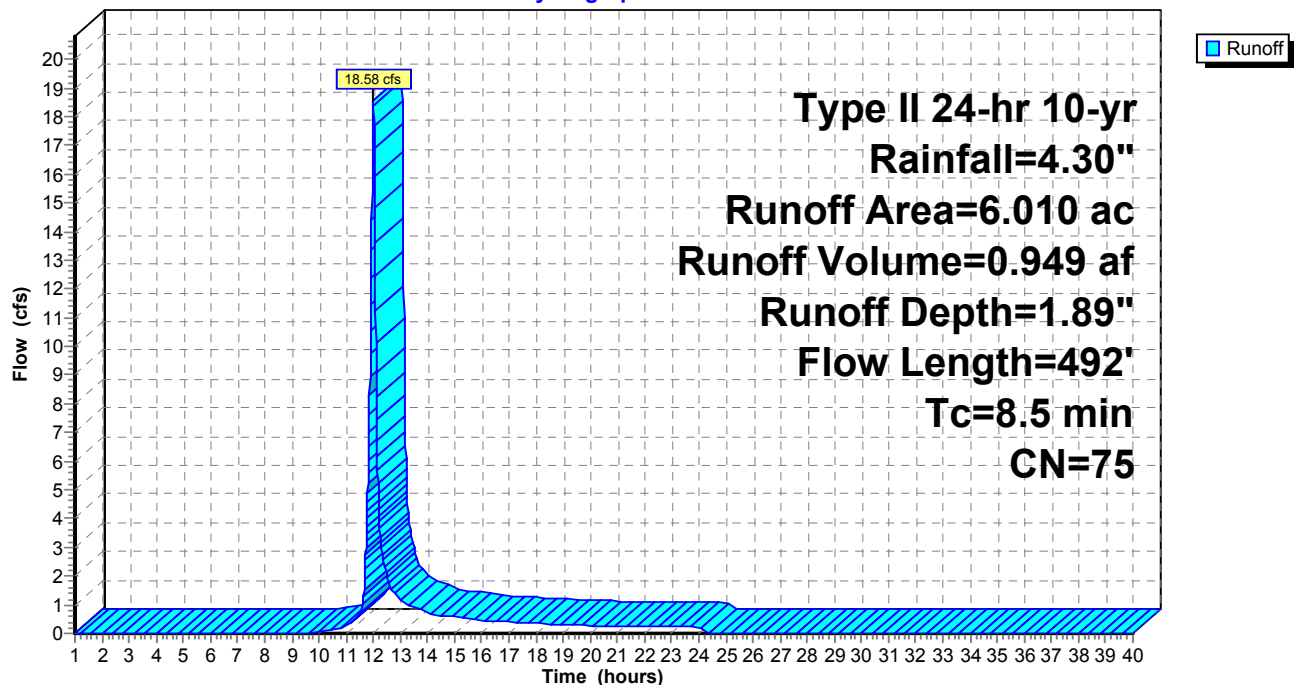
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
6.010	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	492	0.0600	1.0		Lag/CN Method,

Subcatchment W52: W52

Hydrograph



Subcatchment W53: W53

Runoff = 18.63 cfs @ 12.21 hrs, Volume= 1.705 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

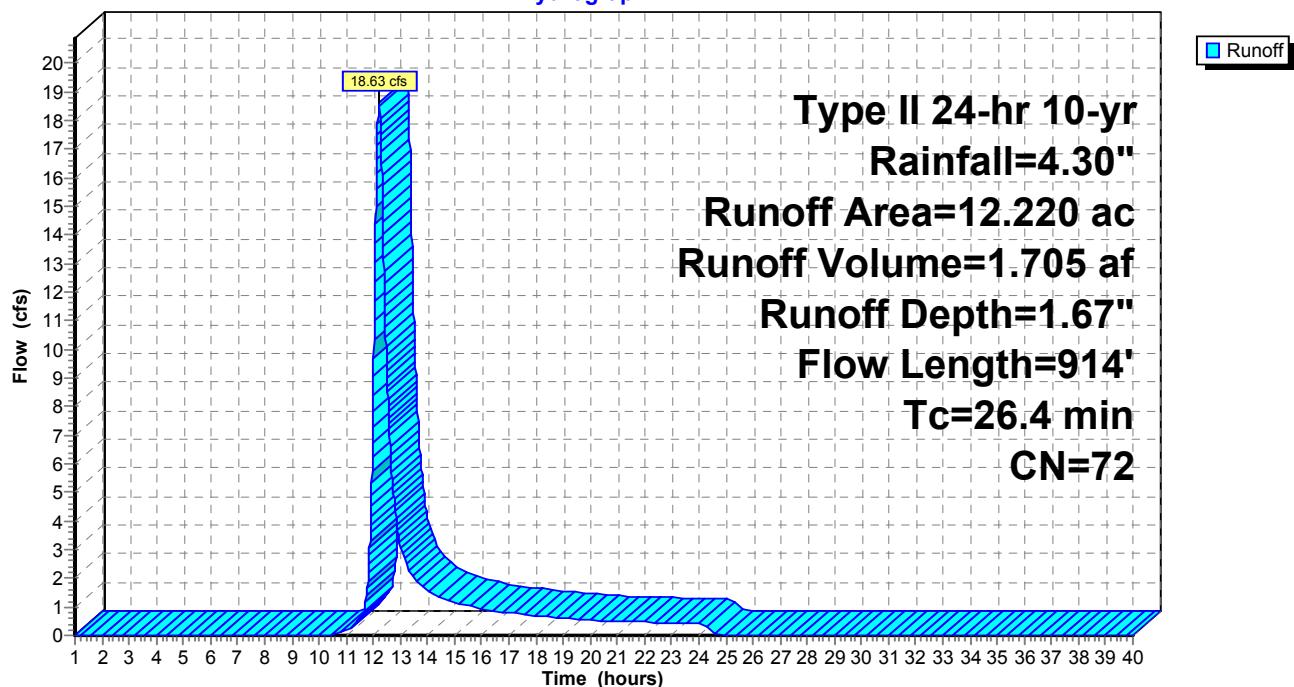
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
12.220	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	914	0.0200	0.6		Lag/CN Method,

Subcatchment W53: W53

Hydrograph



Subcatchment W54: W54

Runoff = 22.85 cfs @ 12.03 hrs, Volume= 1.285 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

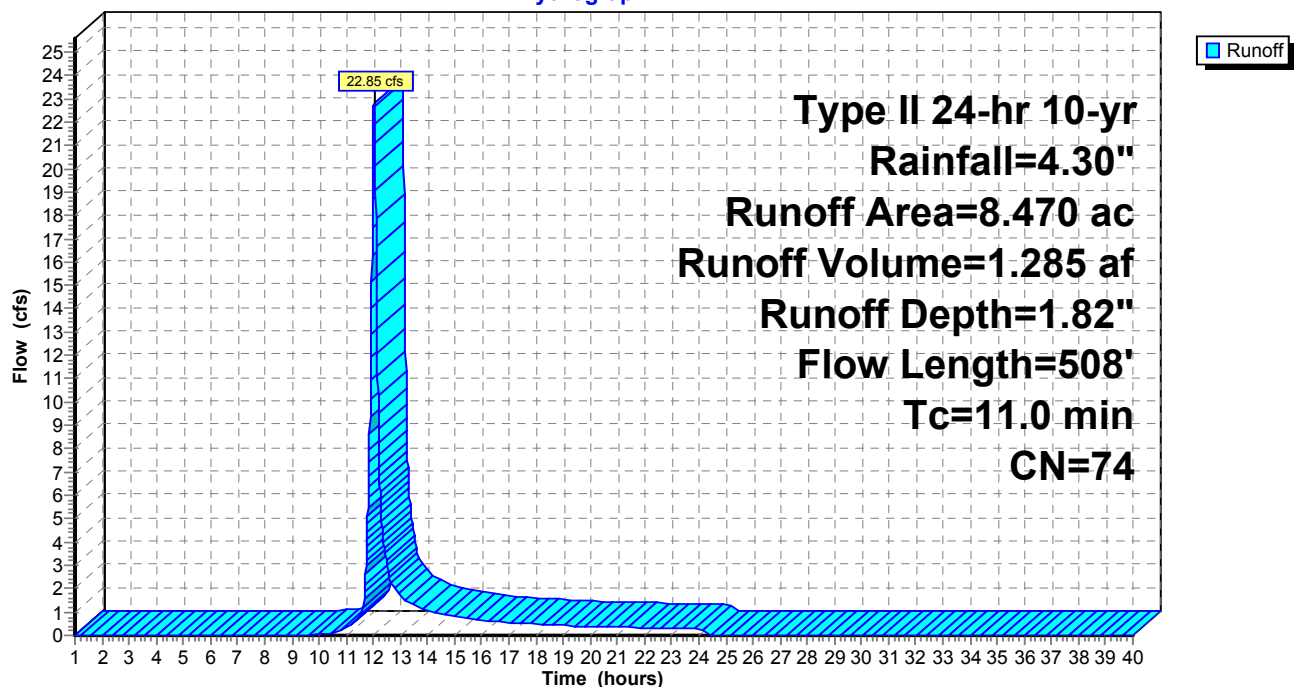
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.470	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	508	0.0400	0.8		Lag/CN Method,

Subcatchment W54: W54

Hydrograph



Subcatchment W55: W55

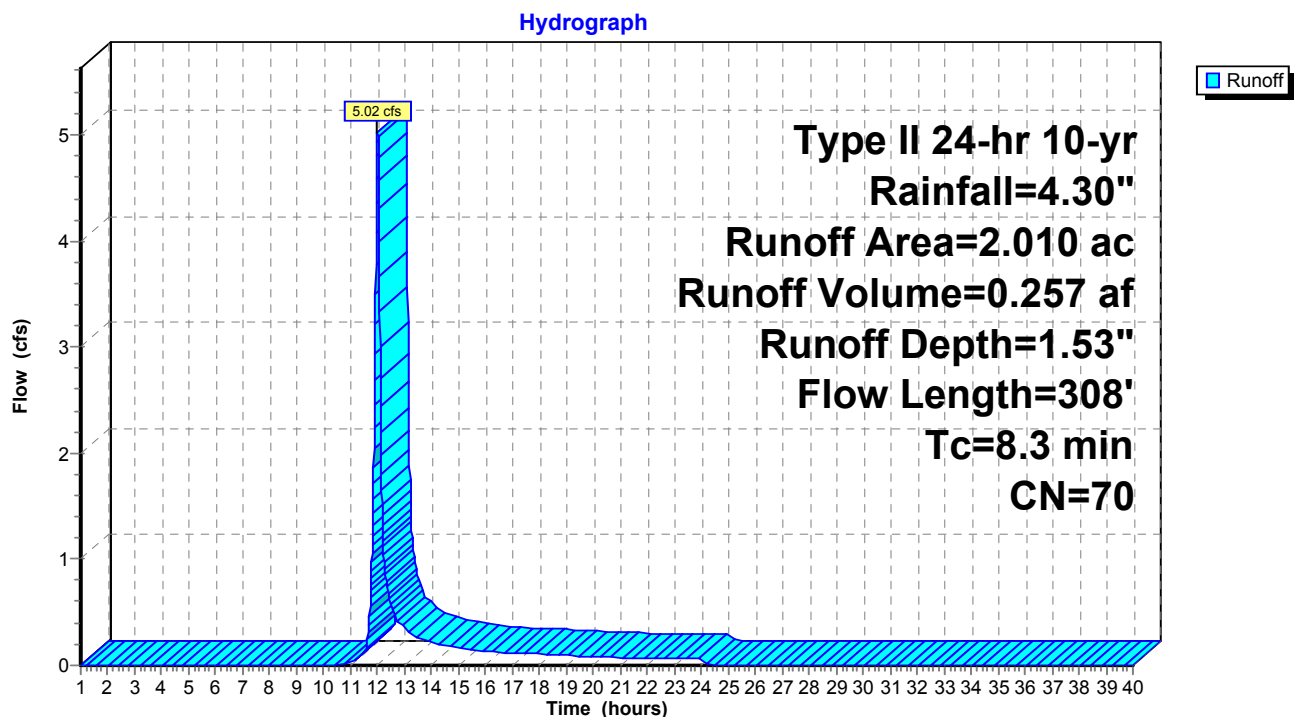
Runoff = 5.02 cfs @ 12.00 hrs, Volume= 0.257 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
2.010	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	308	0.0400	0.6		Lag/CN Method,

Subcatchment W55: W55

Subcatchment W56: W56

Runoff = 15.78 cfs @ 11.97 hrs, Volume= 0.715 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

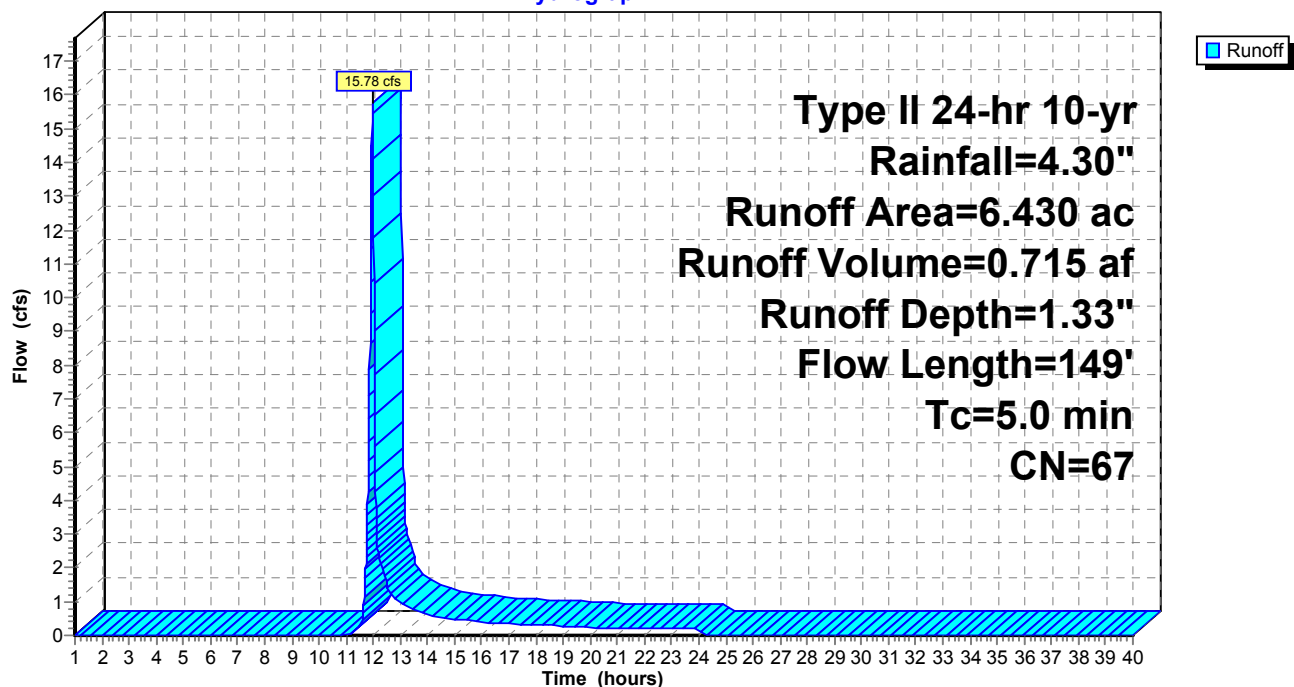
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
6.430	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	149	0.0400	0.5		Lag/CN Method,

Subcatchment W56: W56

Hydrograph



Subcatchment W57: W57

Runoff = 25.80 cfs @ 11.98 hrs, Volume= 1.222 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

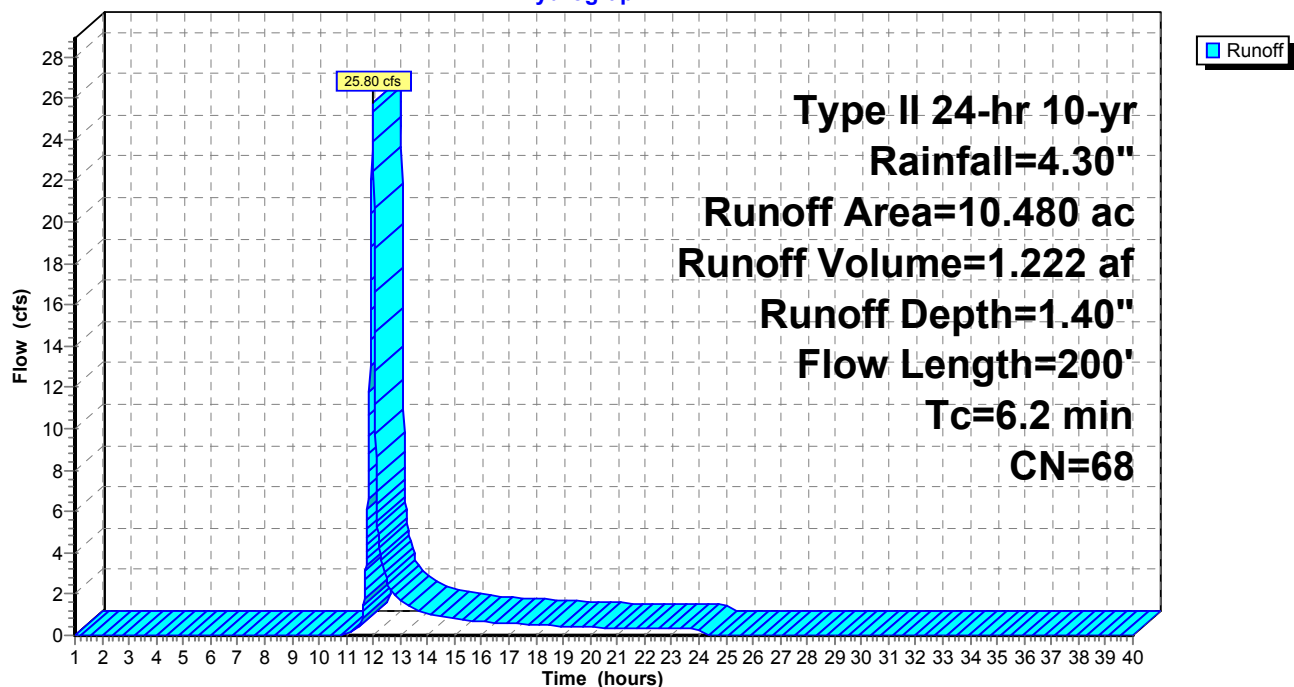
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
10.480	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	200	0.0400	0.5		Lag/CN Method,

Subcatchment W57: W57

Hydrograph



Subcatchment W58: W58

Runoff = 123.07 cfs @ 12.01 hrs, Volume= 6.449 af, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

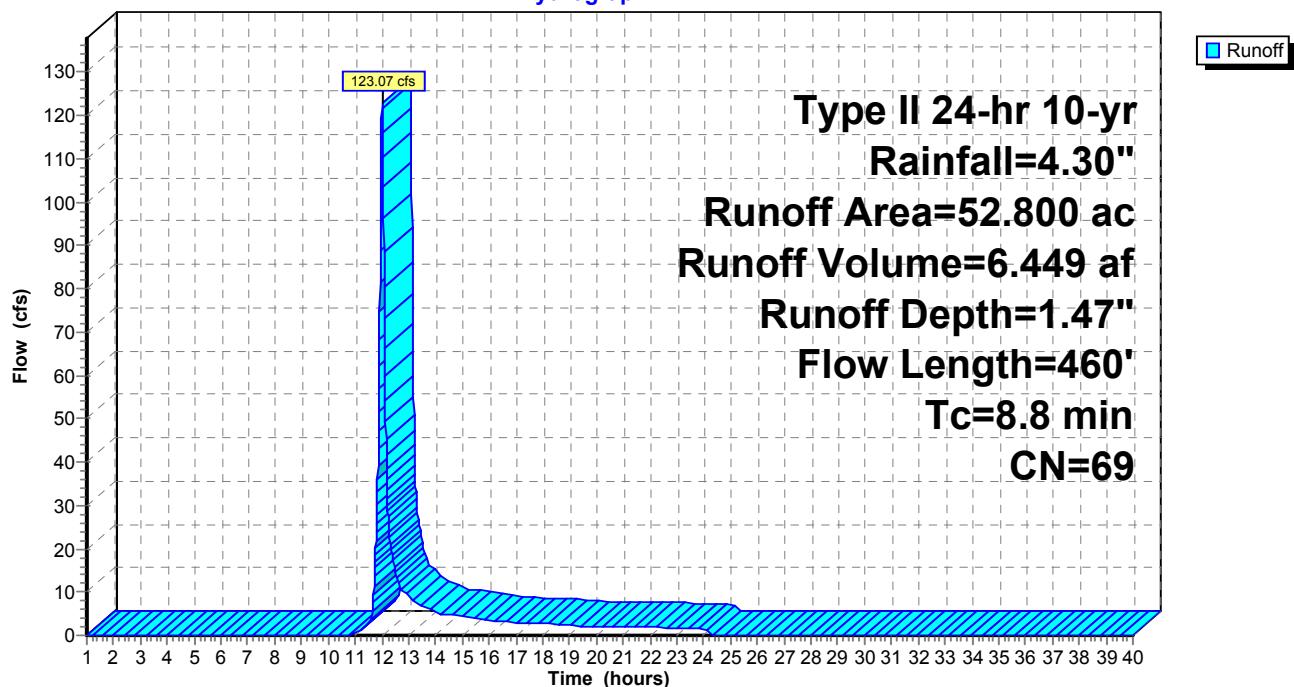
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
52.800	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	460	0.0700	0.9		Lag/CN Method,

Subcatchment W58: W58

Hydrograph



Subcatchment W59: W59

Runoff = 61.19 cfs @ 11.99 hrs, Volume= 3.044 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

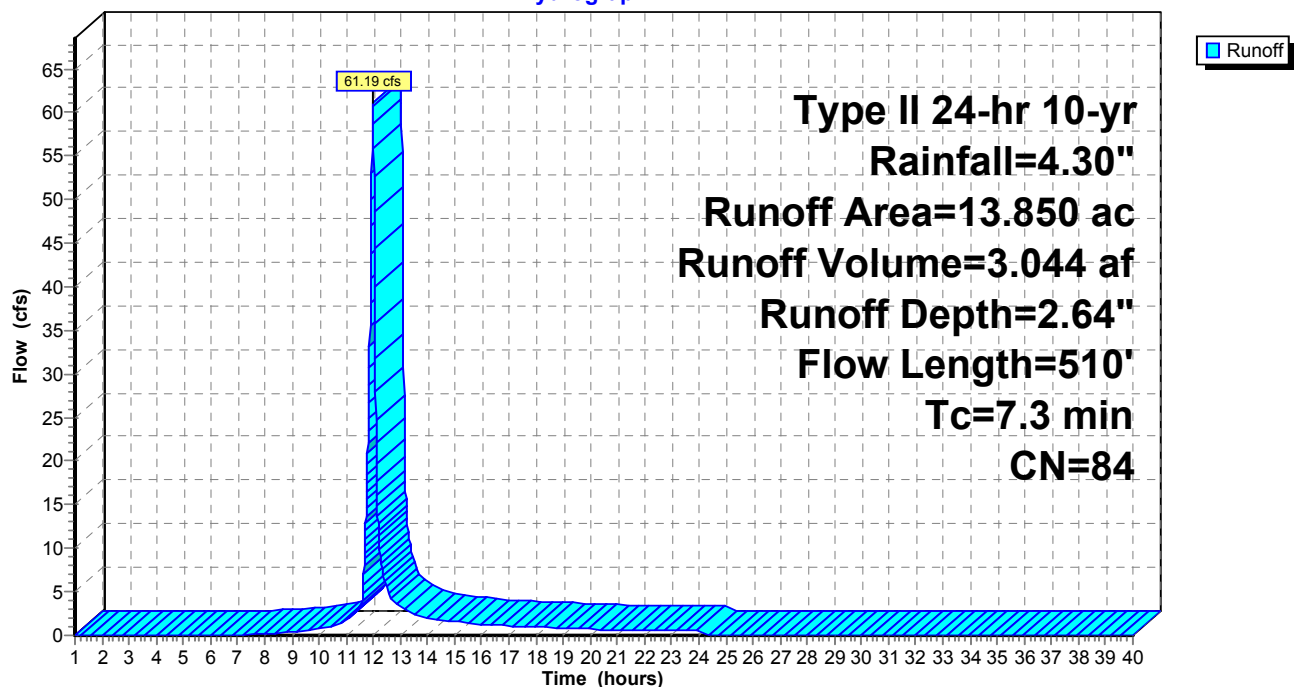
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
13.850	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	510	0.0500	1.2		Lag/CN Method,

Subcatchment W59: W59

Hydrograph



Subcatchment W60: W60

Runoff = 10.02 cfs @ 12.02 hrs, Volume= 0.556 af, Depth= 2.46"

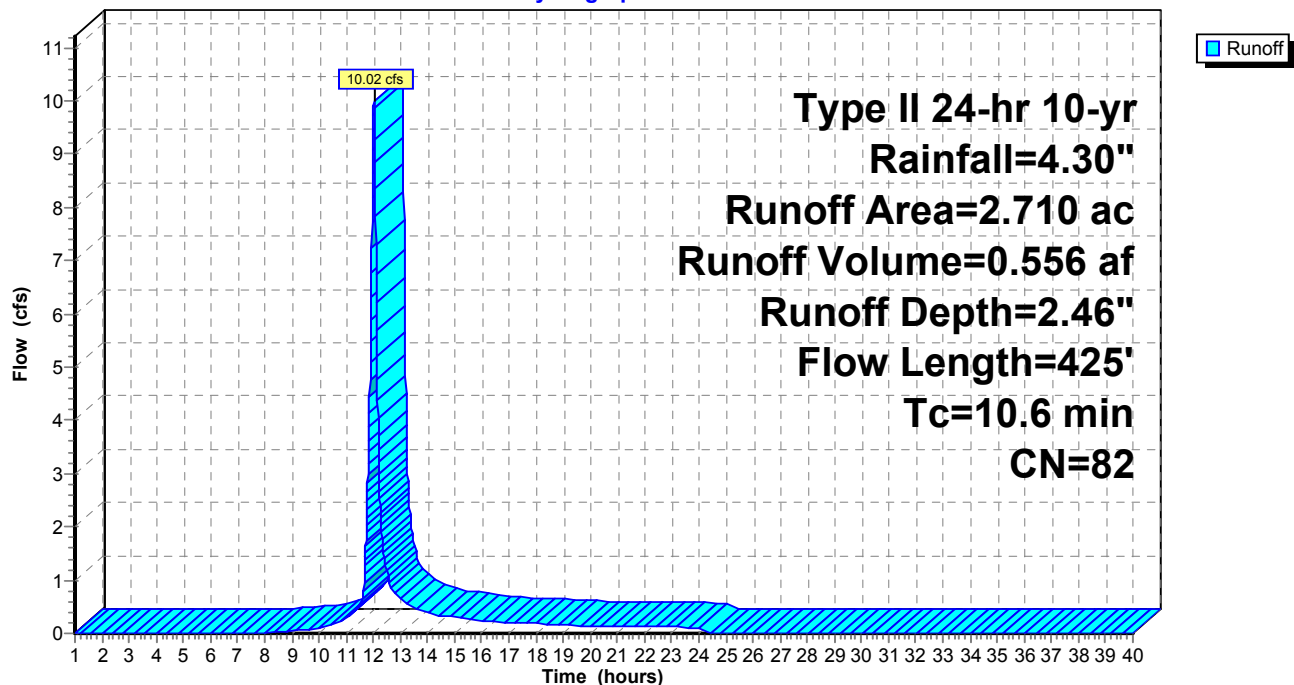
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
2.710	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	425	0.0200	0.7		Lag/CN Method,

Subcatchment W60: W60

Hydrograph



Subcatchment W61: W61

Runoff = 21.15 cfs @ 12.10 hrs, Volume= 1.456 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

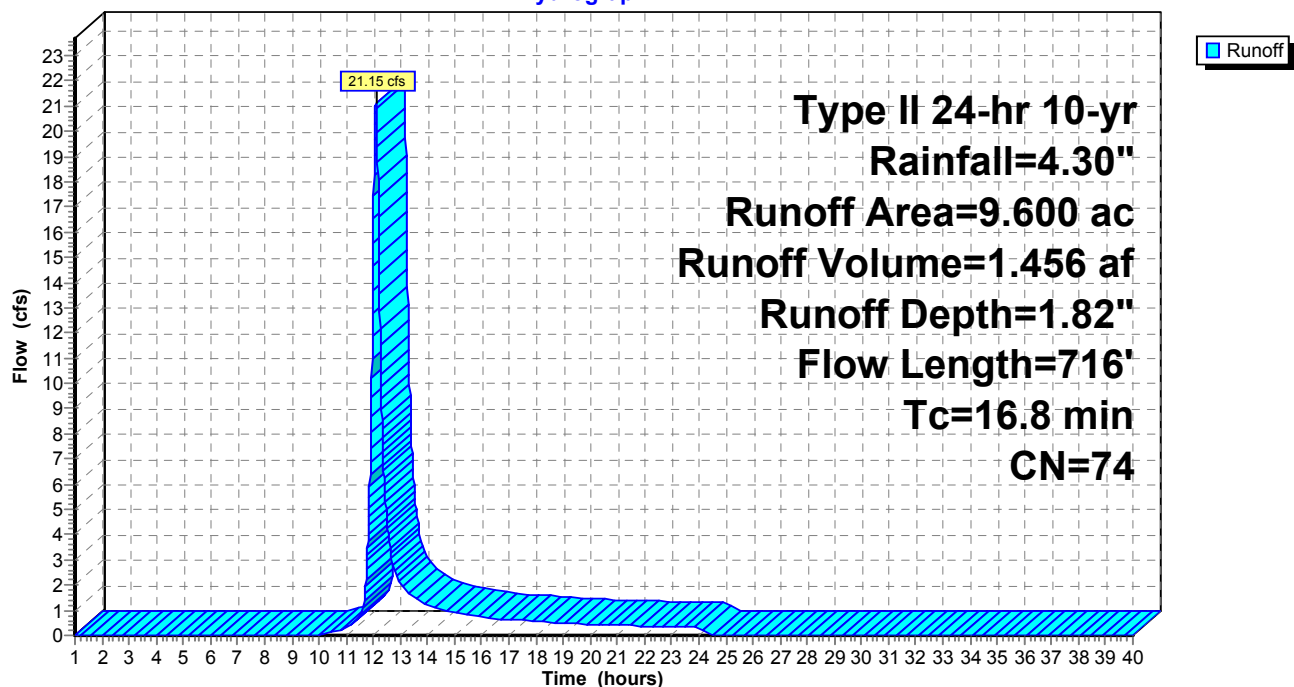
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.600	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	716	0.0300	0.7		Lag/CN Method,

Subcatchment W61: W61

Hydrograph



Subcatchment W62: W62

Runoff = 18.90 cfs @ 12.11 hrs, Volume= 1.366 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

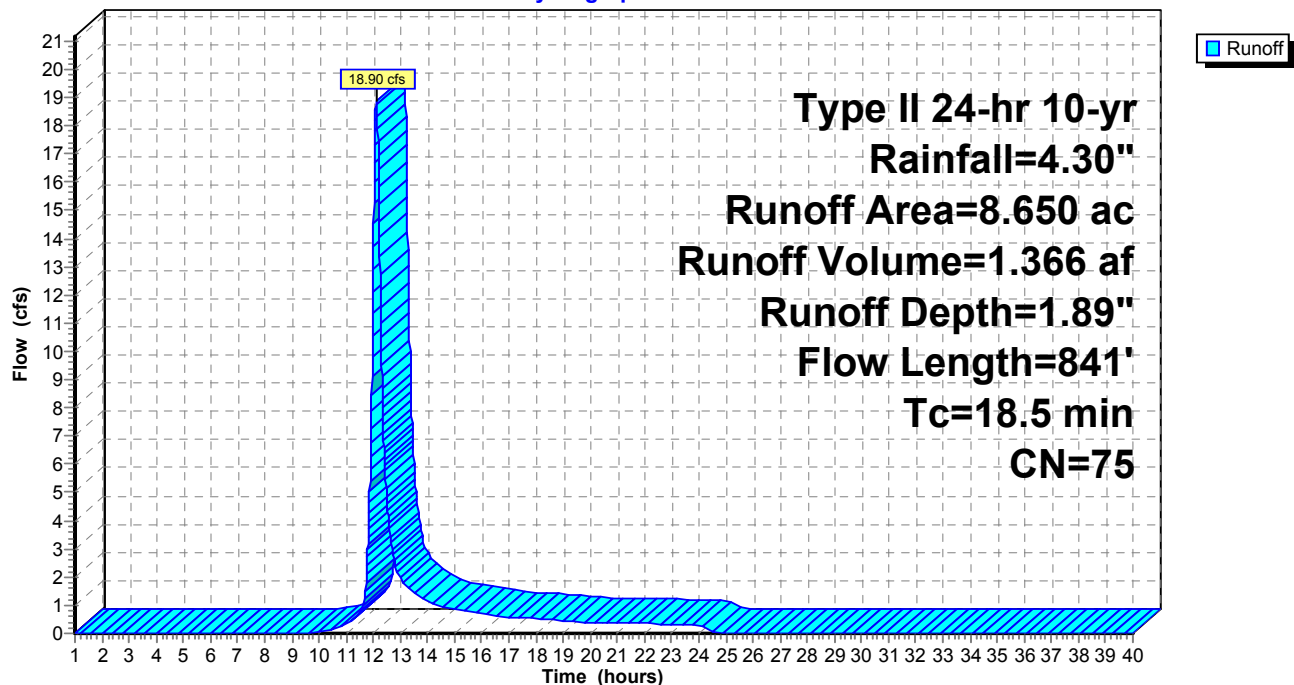
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.650	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.5	841	0.0300	0.8		Lag/CN Method,

Subcatchment W62: W62

Hydrograph



Subcatchment W63: W63

Runoff = 14.55 cfs @ 11.94 hrs, Volume= 0.605 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

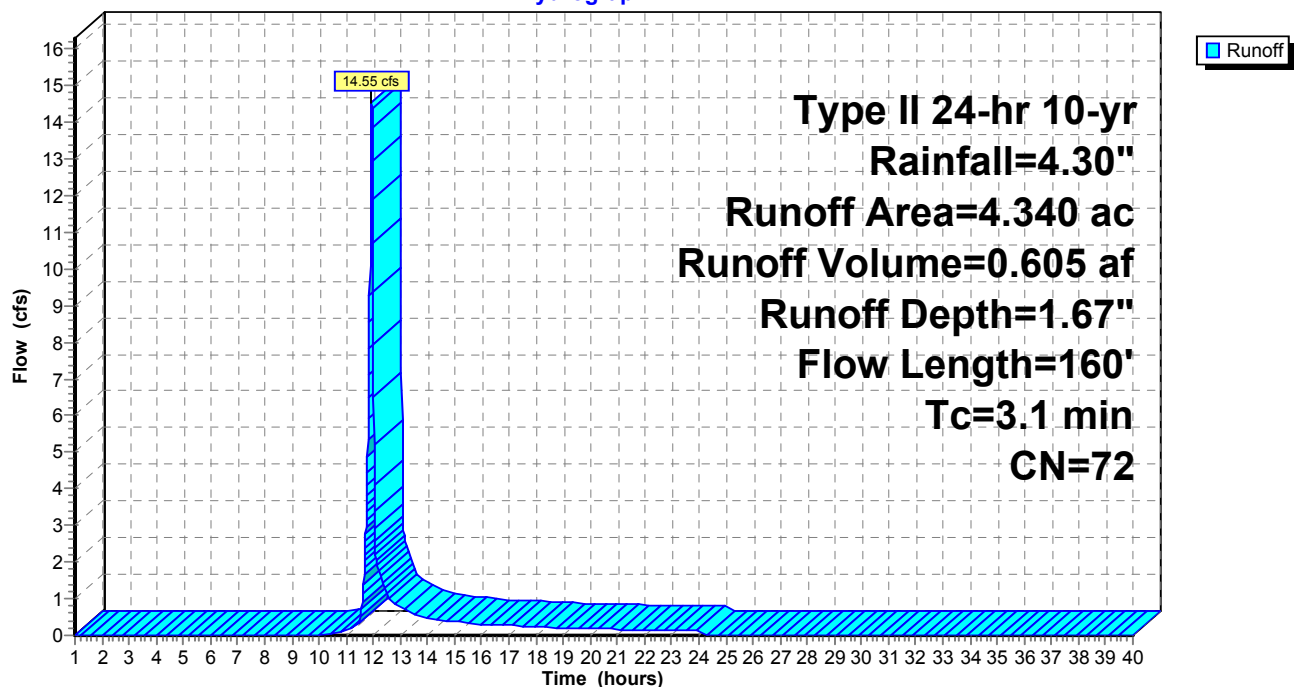
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.340	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	160	0.0900	0.9		Lag/CN Method,

Subcatchment W63: W63

Hydrograph



Subcatchment W64: W64

Runoff = 35.26 cfs @ 12.13 hrs, Volume= 2.720 af, Depth= 3.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

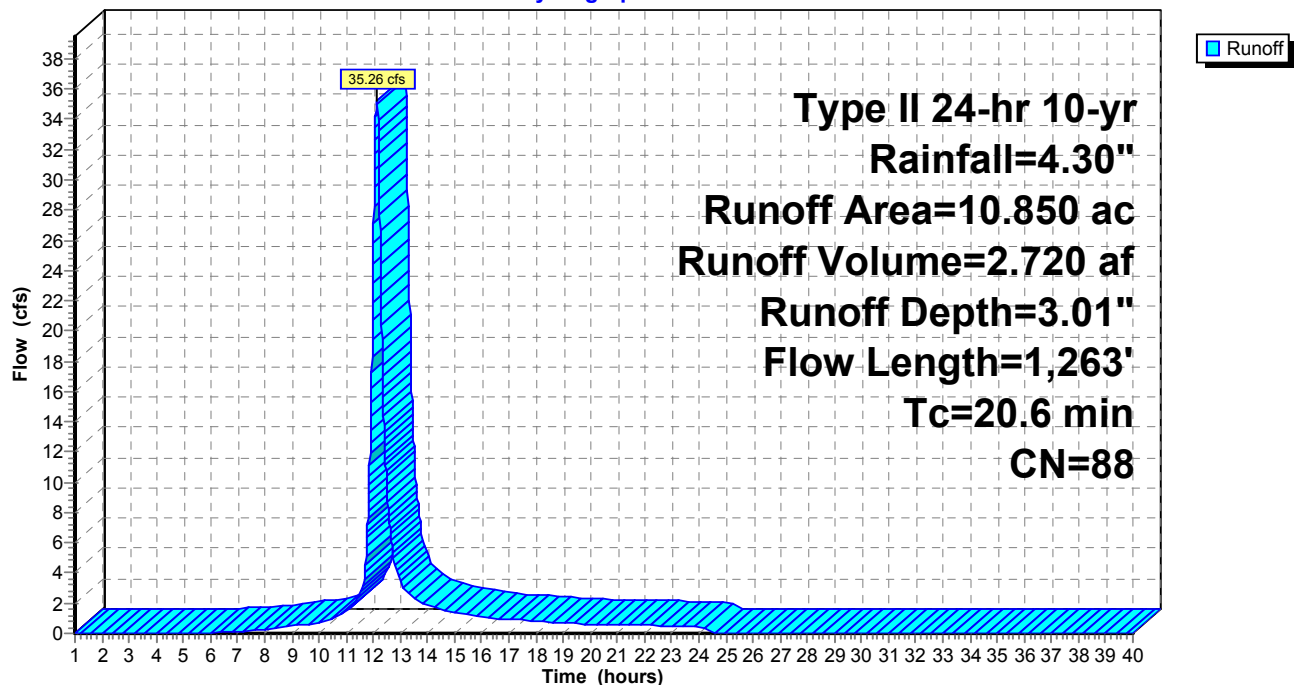
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
10.850	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,263	0.0200	1.0		Lag/CN Method,

Subcatchment W64: W64

Hydrograph



Subcatchment W65: W65

Runoff = 44.53 cfs @ 12.19 hrs, Volume= 3.825 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

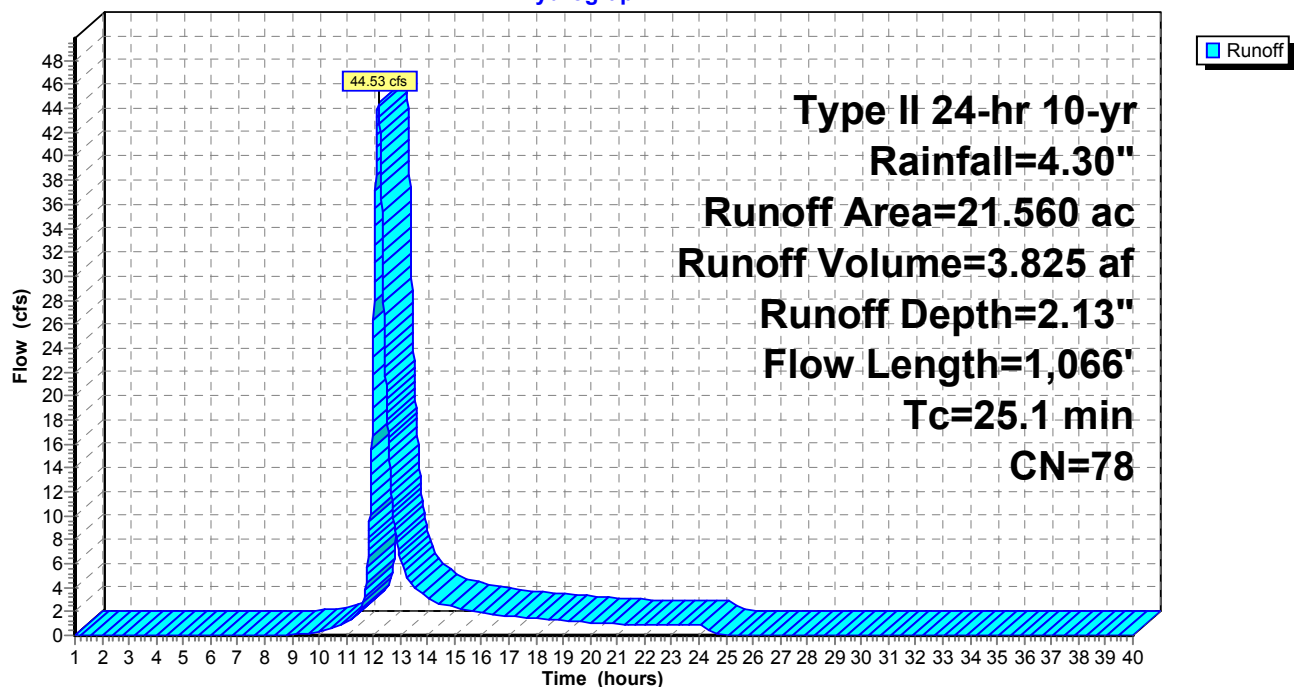
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
21.560	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,066	0.0200	0.7		Lag/CN Method,

Subcatchment W65: W65

Hydrograph



Subcatchment W66: W66

Runoff = 85.31 cfs @ 11.98 hrs, Volume= 4.092 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

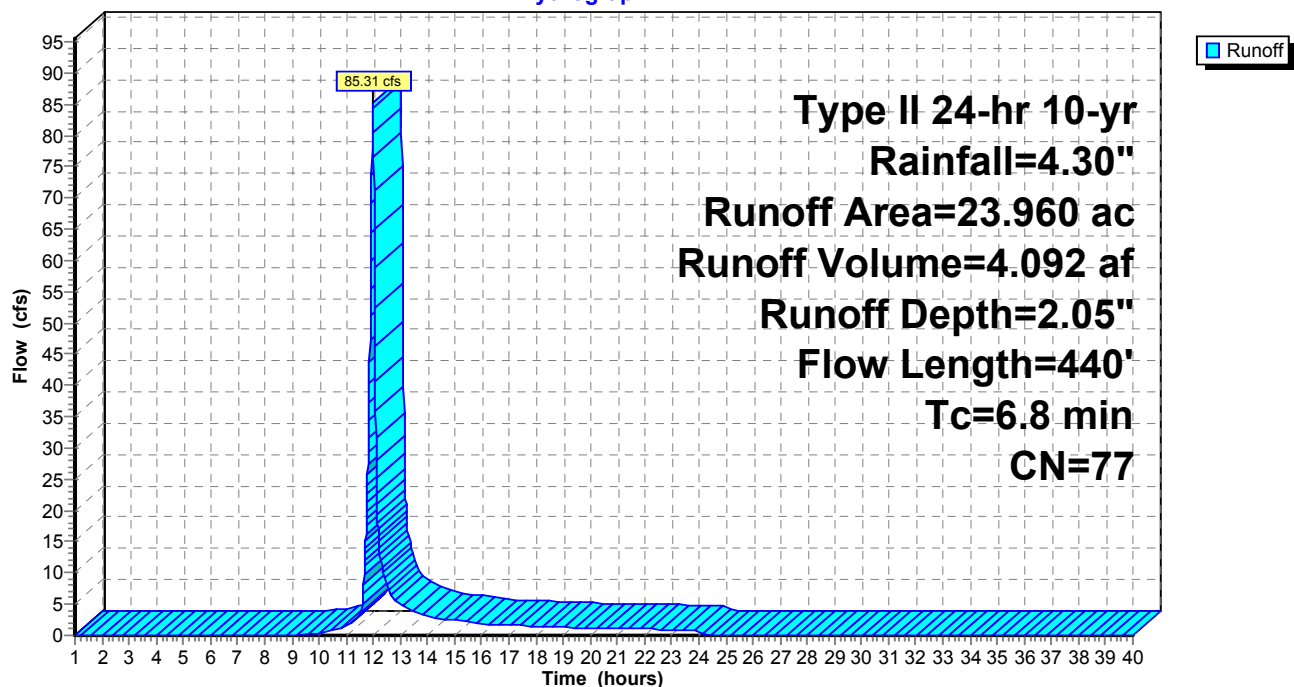
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
23.960	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	440	0.0700	1.1		Lag/CN Method,

Subcatchment W66: W66

Hydrograph



Subcatchment W67: W67

Runoff = 88.77 cfs @ 12.30 hrs, Volume= 9.402 af, Depth= 3.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

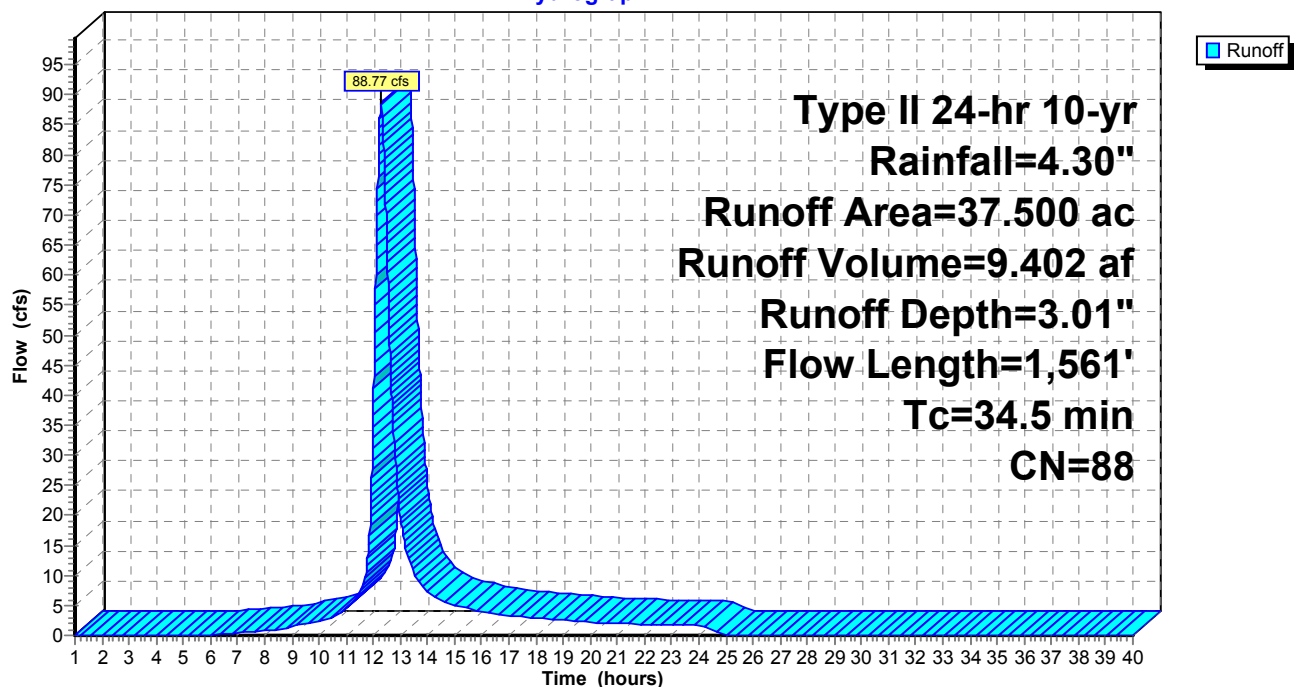
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
37.500	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.5	1,561	0.0100	0.8		Lag/CN Method,

Subcatchment W67: W67

Hydrograph



Subcatchment W68: W68

Runoff = 123.59 cfs @ 12.08 hrs, Volume= 8.252 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

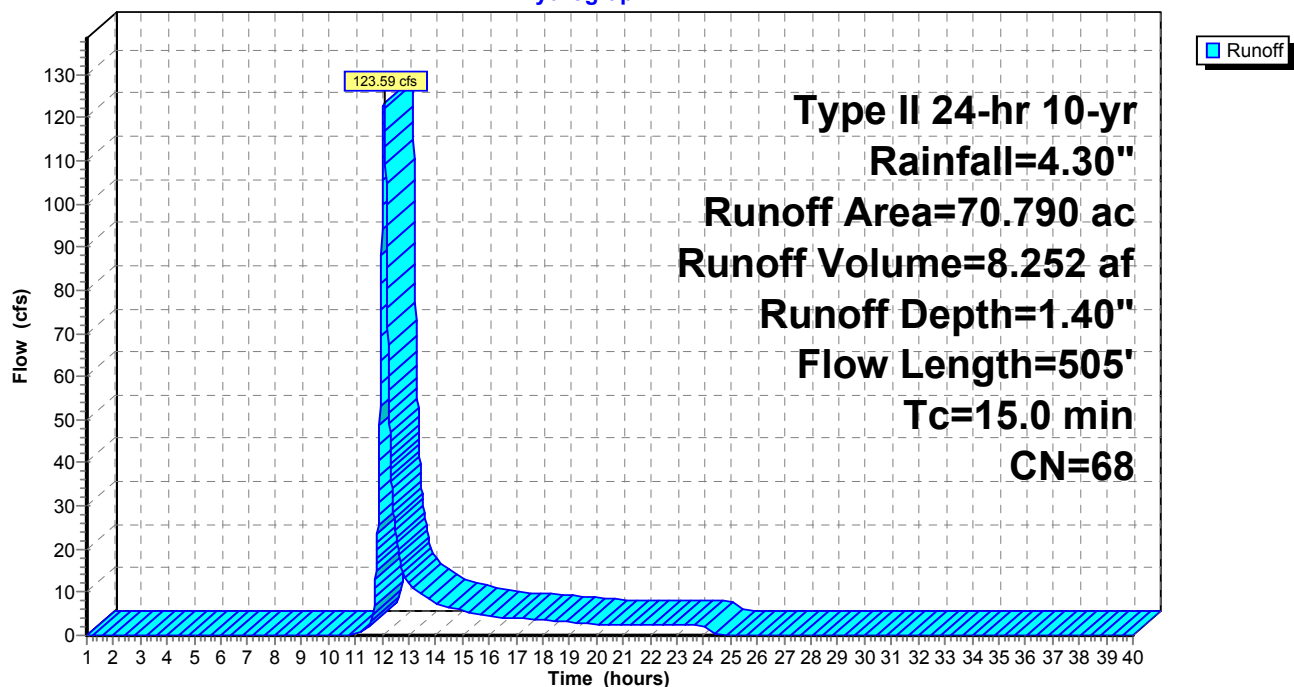
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
70.790	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	505	0.0300	0.6		Lag/CN Method,

Subcatchment W68: W68

Hydrograph



Subcatchment W69: W69

Runoff = 34.33 cfs @ 12.01 hrs, Volume= 1.814 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

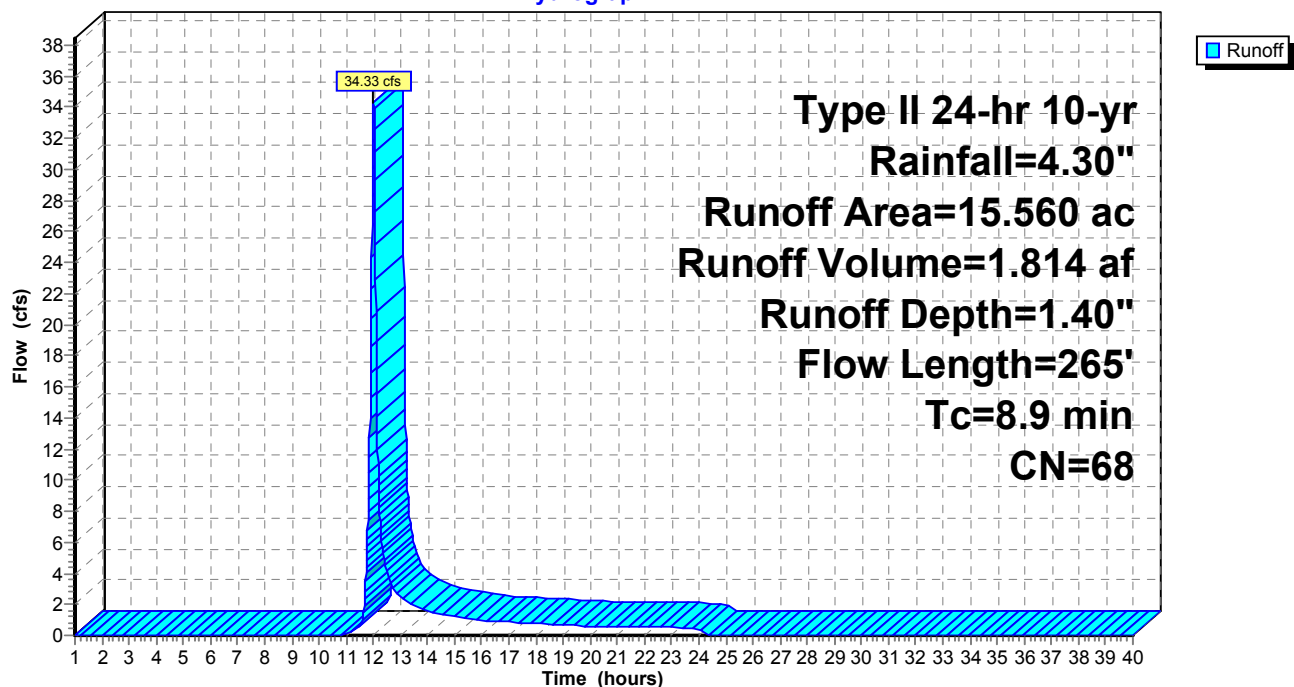
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
15.560	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	265	0.0300	0.5		Lag/CN Method,

Subcatchment W69: W69

Hydrograph



Subcatchment W70: W70

Runoff = 36.26 cfs @ 14.37 hrs, Volume= 14.403 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

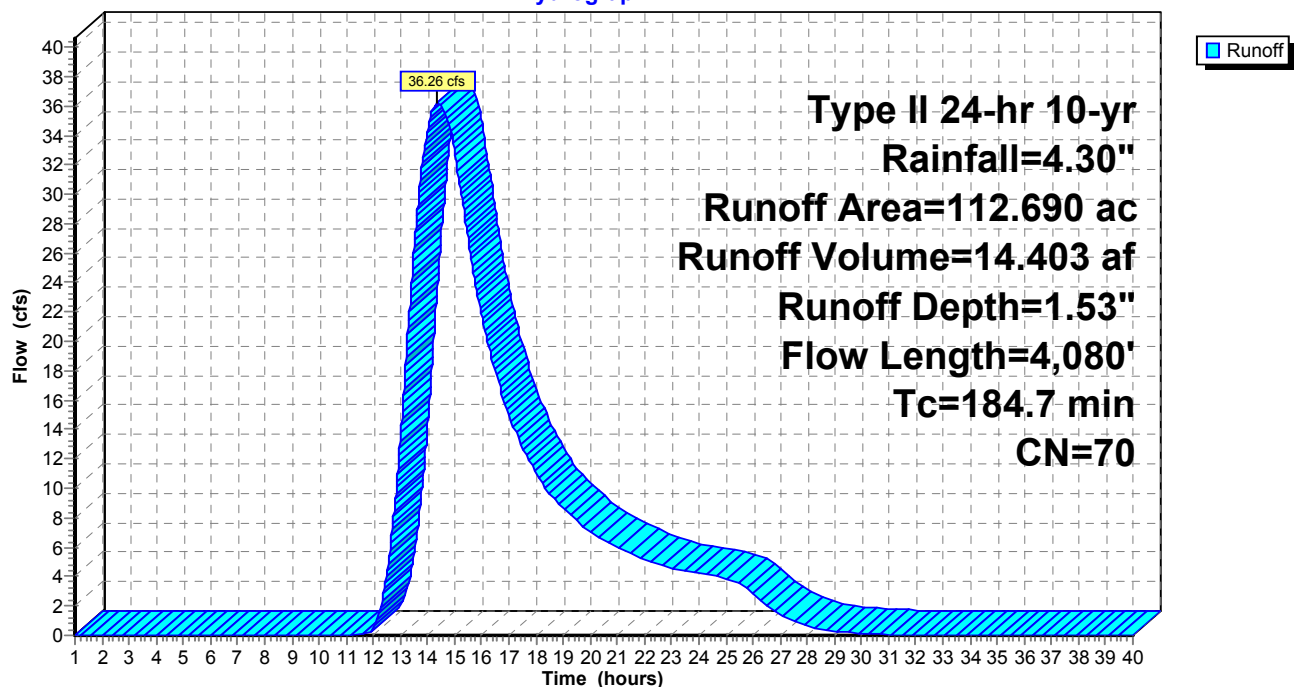
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
112.690	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
184.7	4,080	0.0050	0.4		Lag/CN Method,

Subcatchment W70: W70

Hydrograph



Subcatchment W71: W71

Runoff = 23.47 cfs @ 12.83 hrs, Volume= 4.449 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

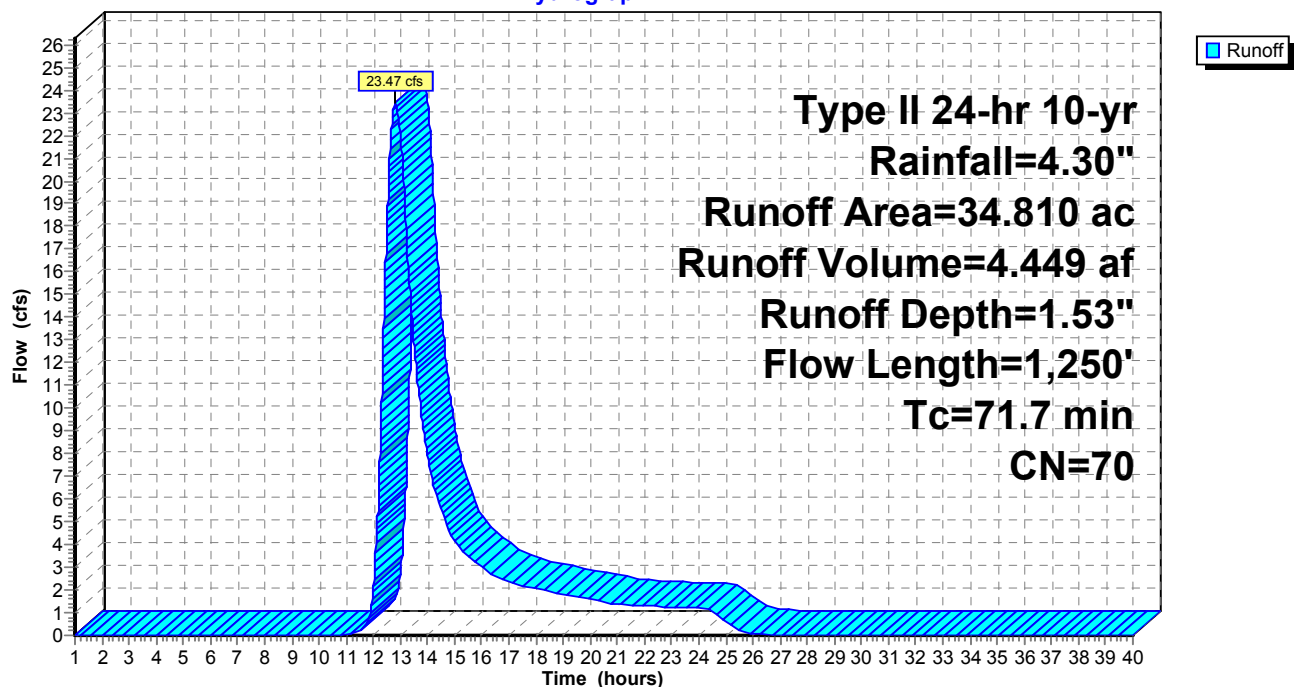
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
34.810	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.7	1,250	0.0050	0.3		Lag/CN Method,

Subcatchment W71: W71

Hydrograph



Subcatchment W72: W72

Runoff = 28.39 cfs @ 12.16 hrs, Volume= 2.335 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

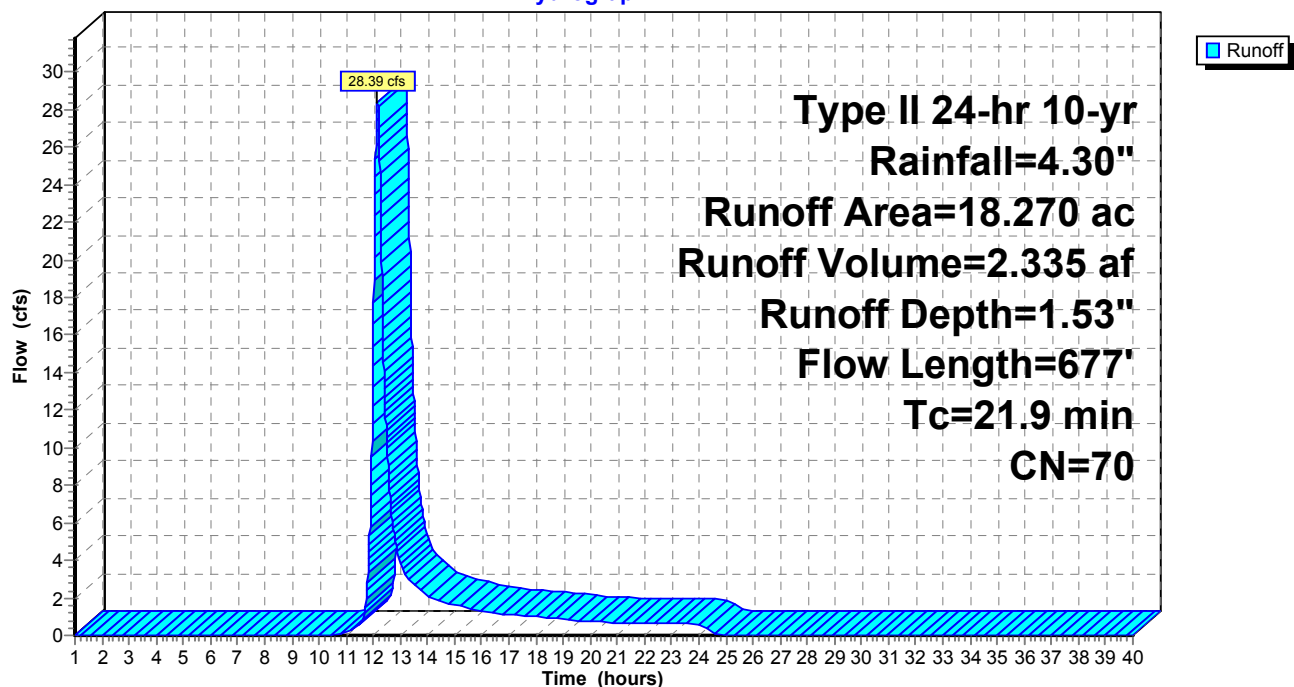
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.270	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	677	0.0200	0.5		Lag/CN Method,

Subcatchment W72: W72

Hydrograph



Subcatchment W73: W73

Runoff = 19.37 cfs @ 12.63 hrs, Volume= 3.313 af, Depth= 1.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

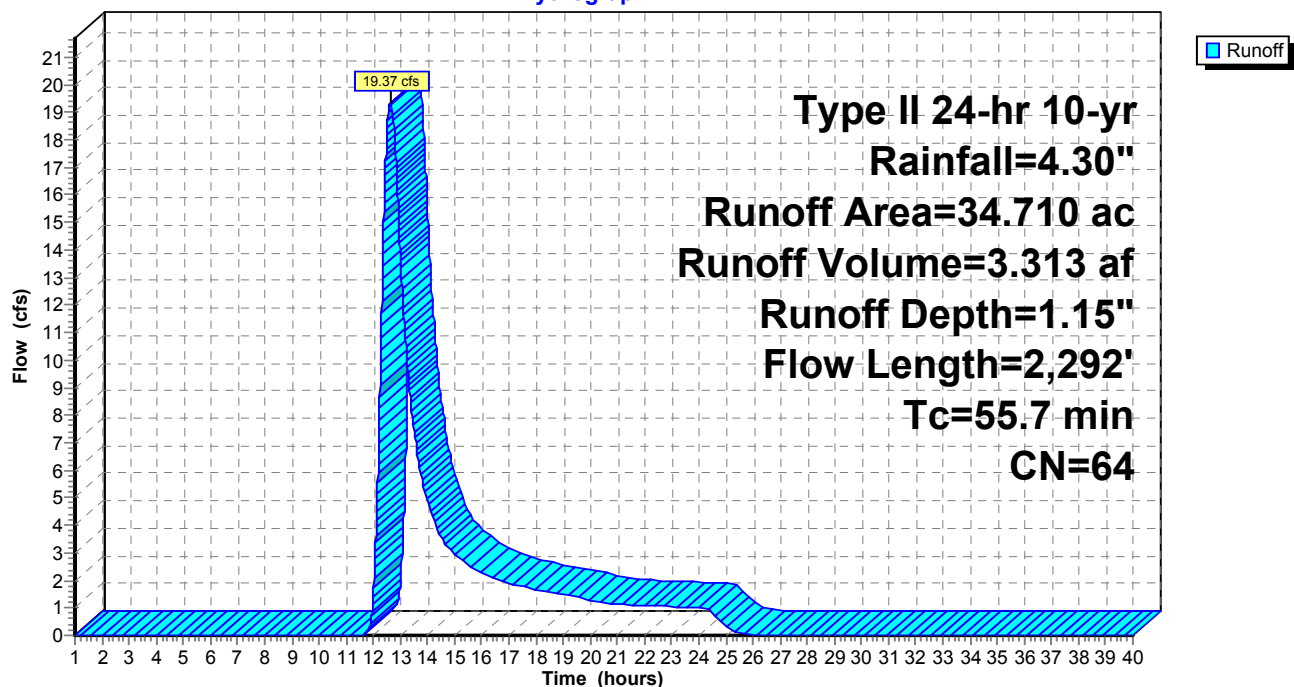
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
34.710	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.7	2,292	0.0300	0.7		Lag/CN Method,

Subcatchment W73: W73

Hydrograph



Subcatchment W74: W74

Runoff = 9.67 cfs @ 12.03 hrs, Volume= 0.534 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

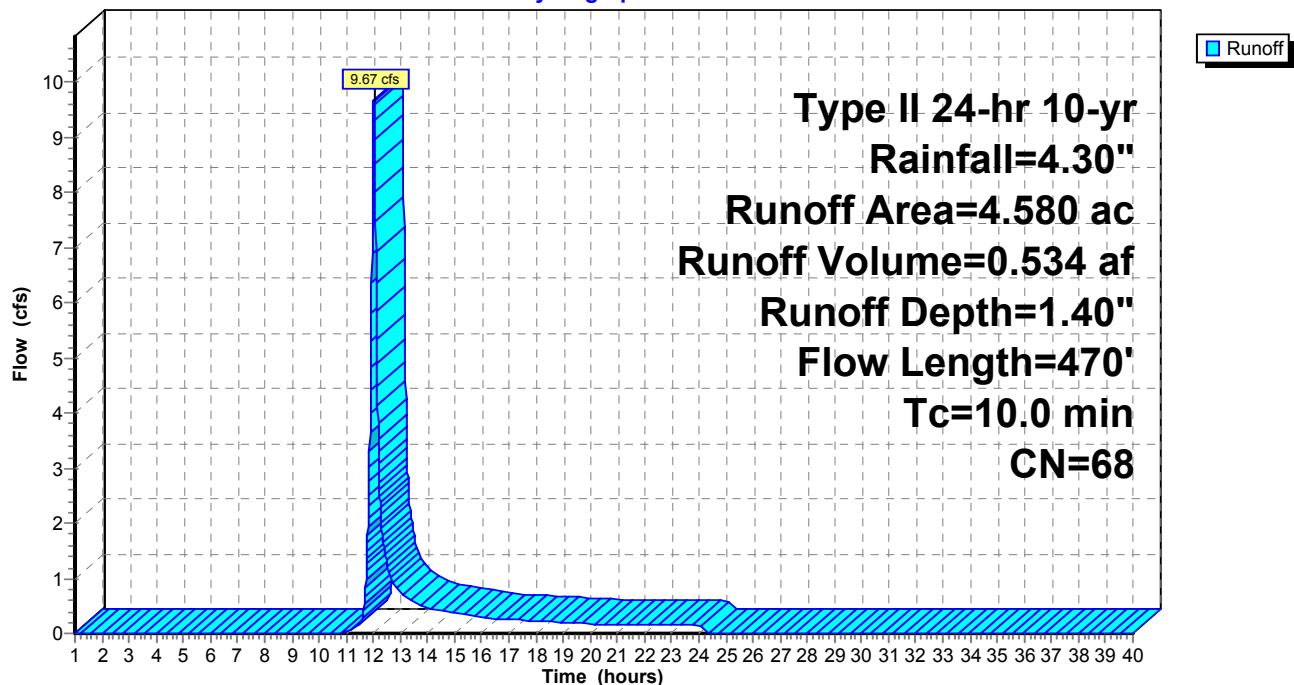
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
4.580	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	470	0.0600	0.8		Lag/CN Method,

Subcatchment W74: W74

Hydrograph



Subcatchment W75: W75

Runoff = 94.70 cfs @ 12.09 hrs, Volume= 6.455 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

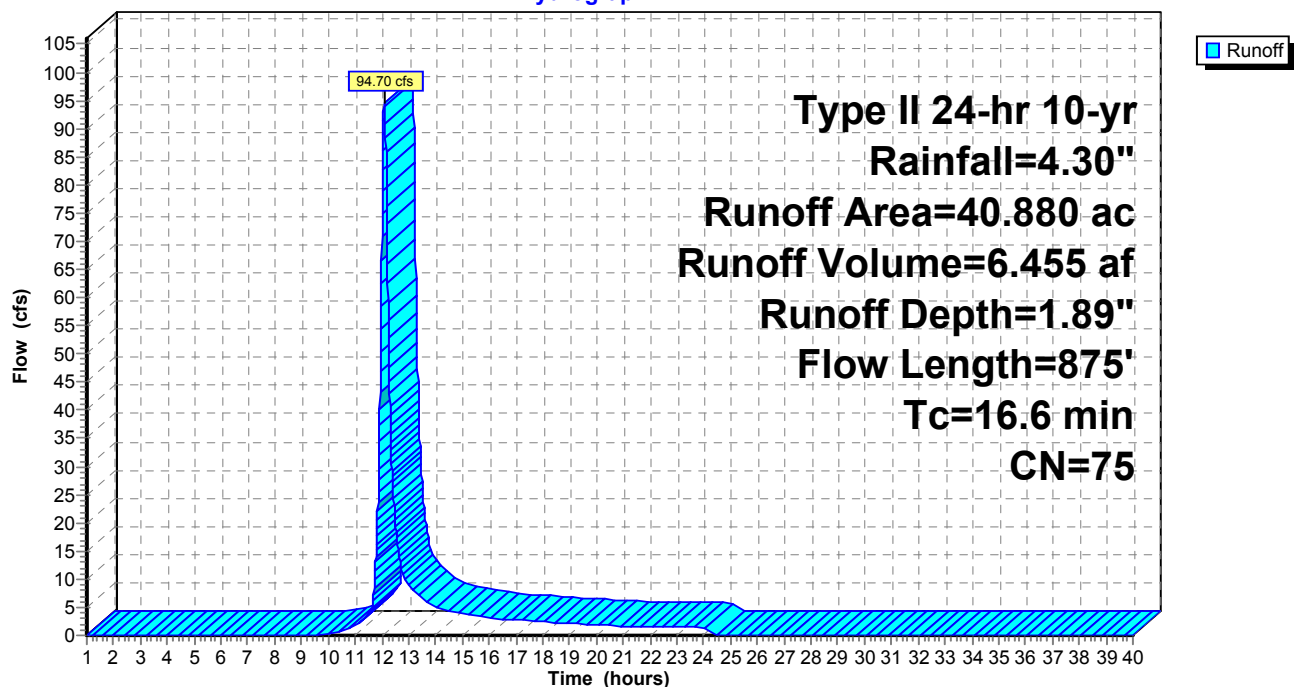
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
40.880	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	875	0.0400	0.9		Lag/CN Method,

Subcatchment W75: W75

Hydrograph



Subcatchment W76: W76

Runoff = 56.42 cfs @ 12.40 hrs, Volume= 6.848 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

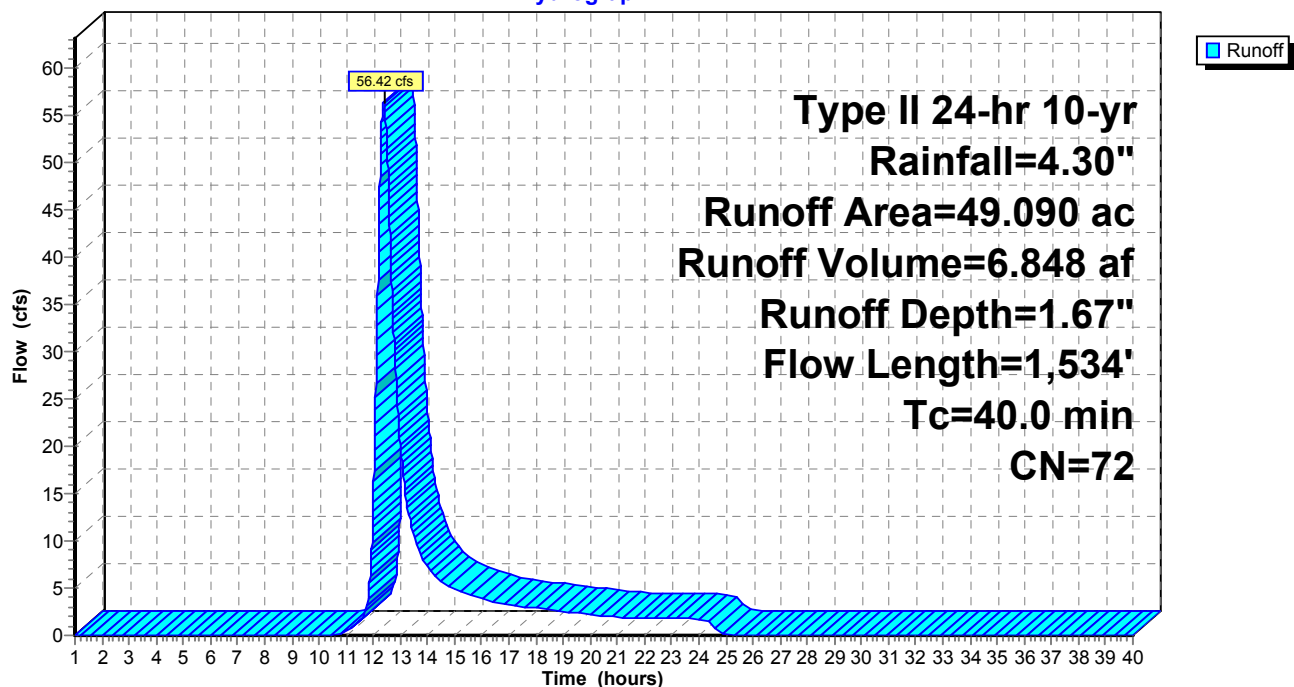
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
49.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.0	1,534	0.0200	0.6		Lag/CN Method,

Subcatchment W76: W76

Hydrograph



Subcatchment W77: W77

Runoff = 196.13 cfs @ 12.01 hrs, Volume= 10.369 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

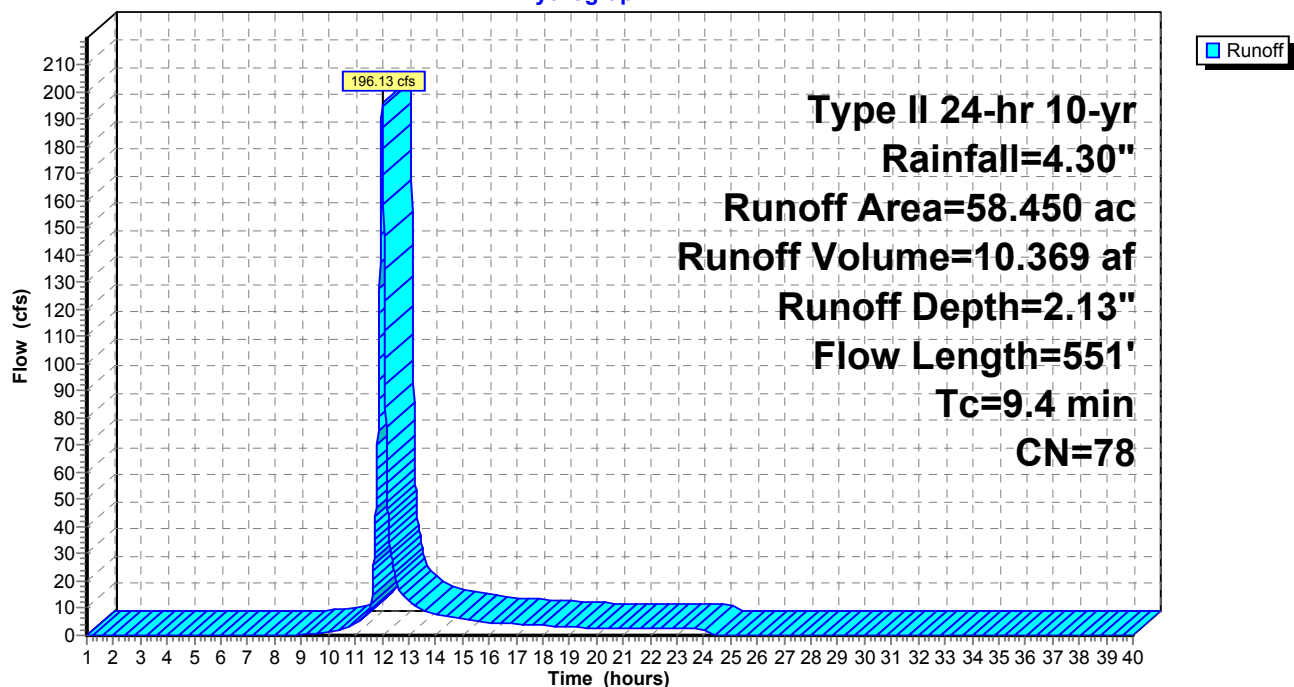
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
58.450	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	551	0.0500	1.0		Lag/CN Method,

Subcatchment W77: W77

Hydrograph



Subcatchment W79: W79

Runoff = 30.20 cfs @ 12.61 hrs, Volume= 4.760 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

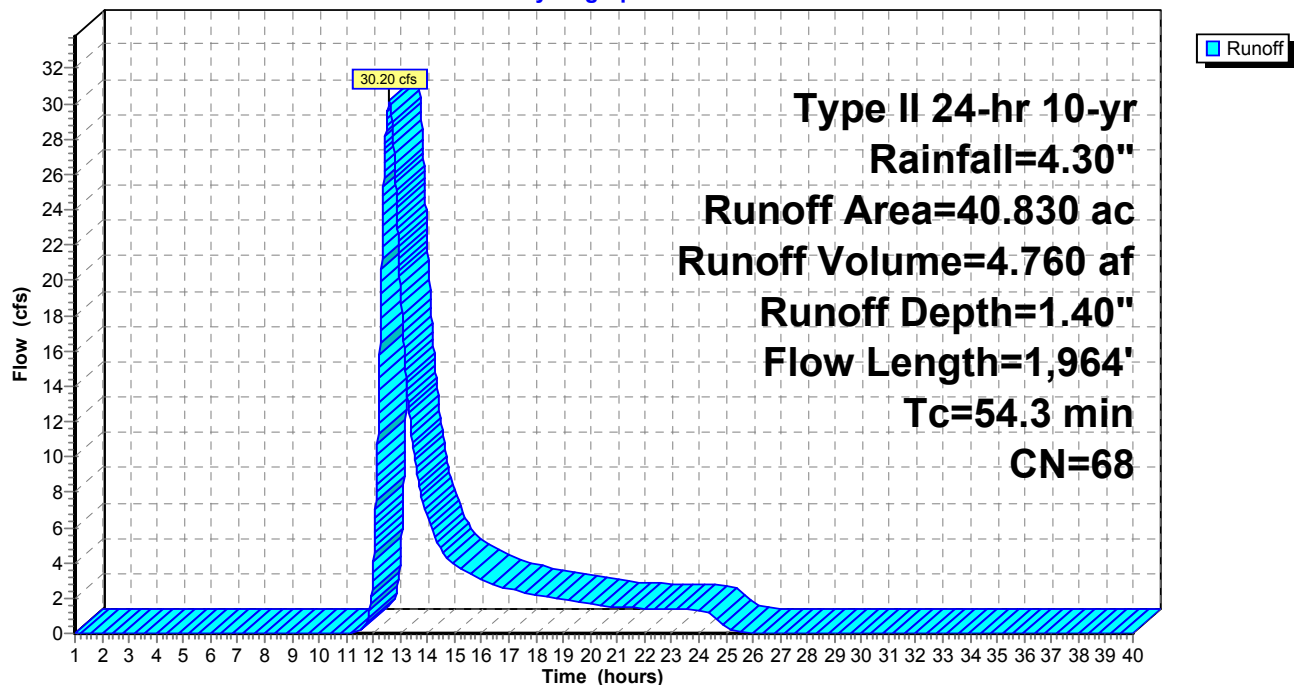
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
40.830	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.3	1,964	0.0200	0.6		Lag/CN Method,

Subcatchment W79: W79

Hydrograph



Subcatchment W80: W80

Runoff = 105.94 cfs @ 12.32 hrs, Volume= 11.387 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

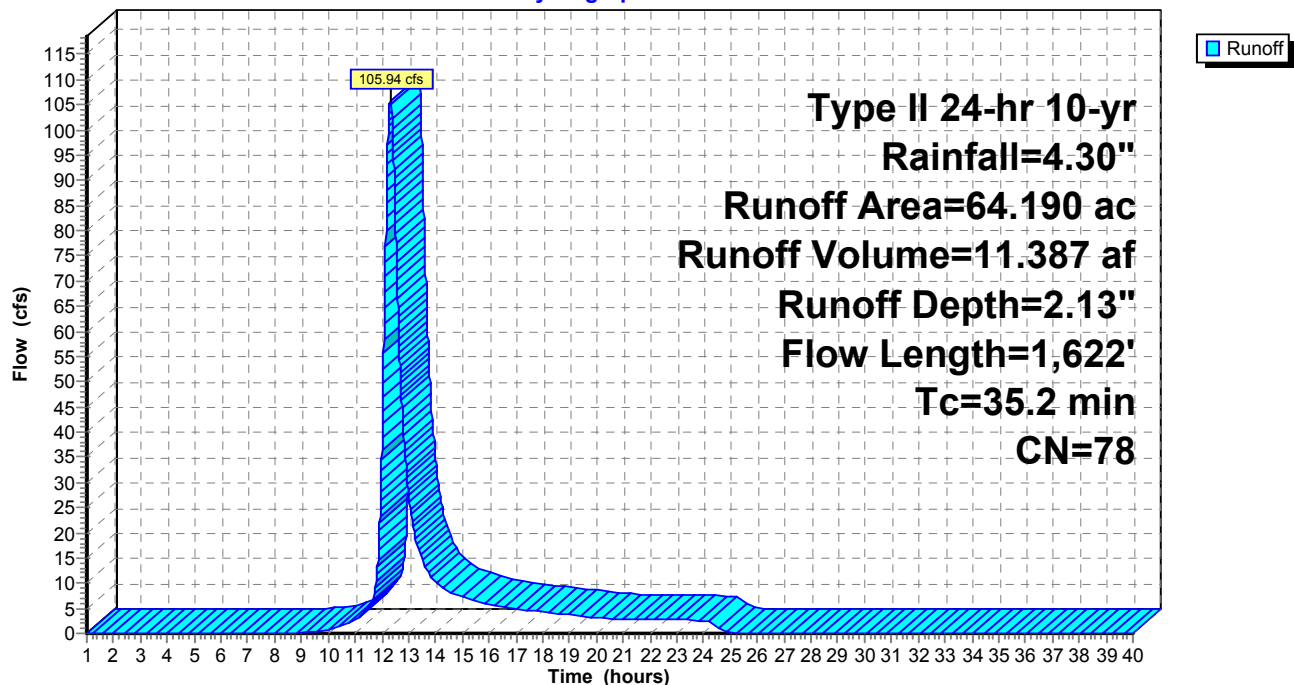
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
64.190	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.2	1,622	0.0200	0.8		Lag/CN Method,

Subcatchment W80: W80

Hydrograph



Subcatchment W81: W81

Runoff = 54.33 cfs @ 11.96 hrs, Volume= 2.677 af, Depth= 3.31"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

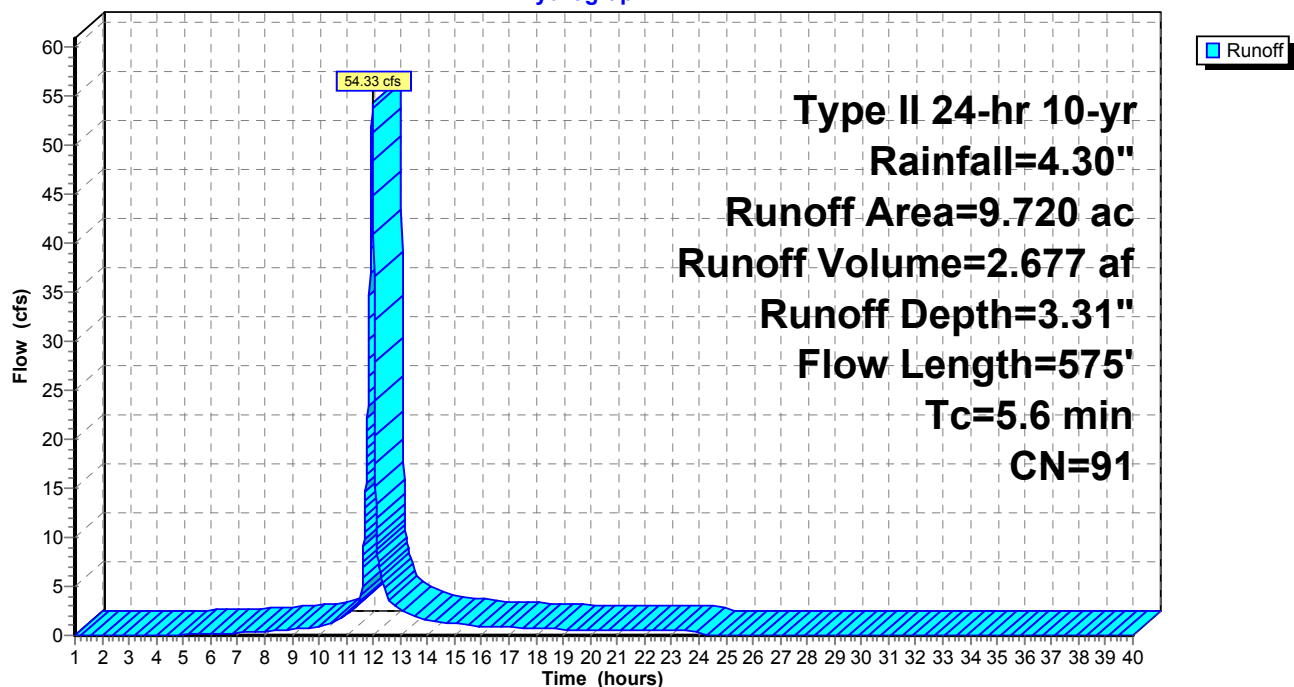
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.720	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	575	0.0600	1.7		Lag/CN Method,

Subcatchment W81: W81

Hydrograph



Subcatchment W82: W82

Runoff = 47.46 cfs @ 12.06 hrs, Volume= 2.943 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

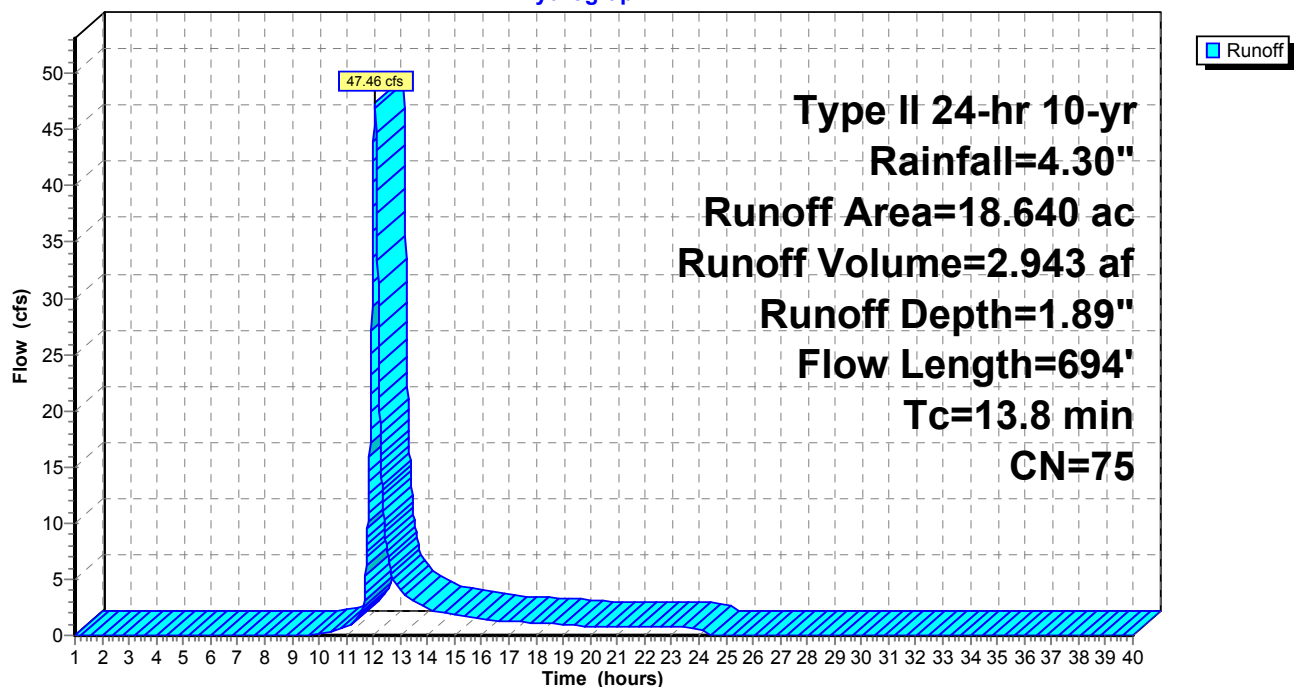
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.640	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	694	0.0400	0.8		Lag/CN Method,

Subcatchment W82: W82

Hydrograph



Subcatchment W83: W83

Runoff = 9.71 cfs @ 12.26 hrs, Volume= 1.064 af, Depth= 1.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

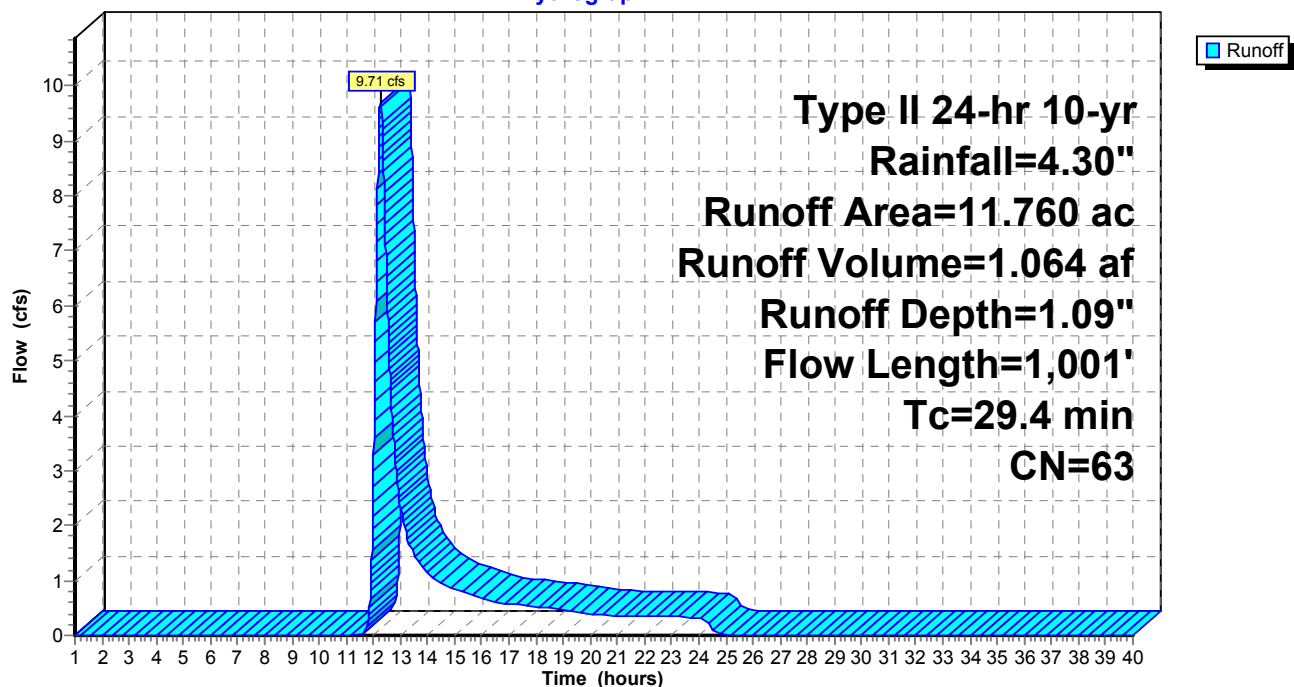
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
11.760	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,001	0.0300	0.6		Lag/CN Method,

Subcatchment W83: W83

Hydrograph



Subcatchment W84: W84

Runoff = 40.32 cfs @ 12.13 hrs, Volume= 3.014 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

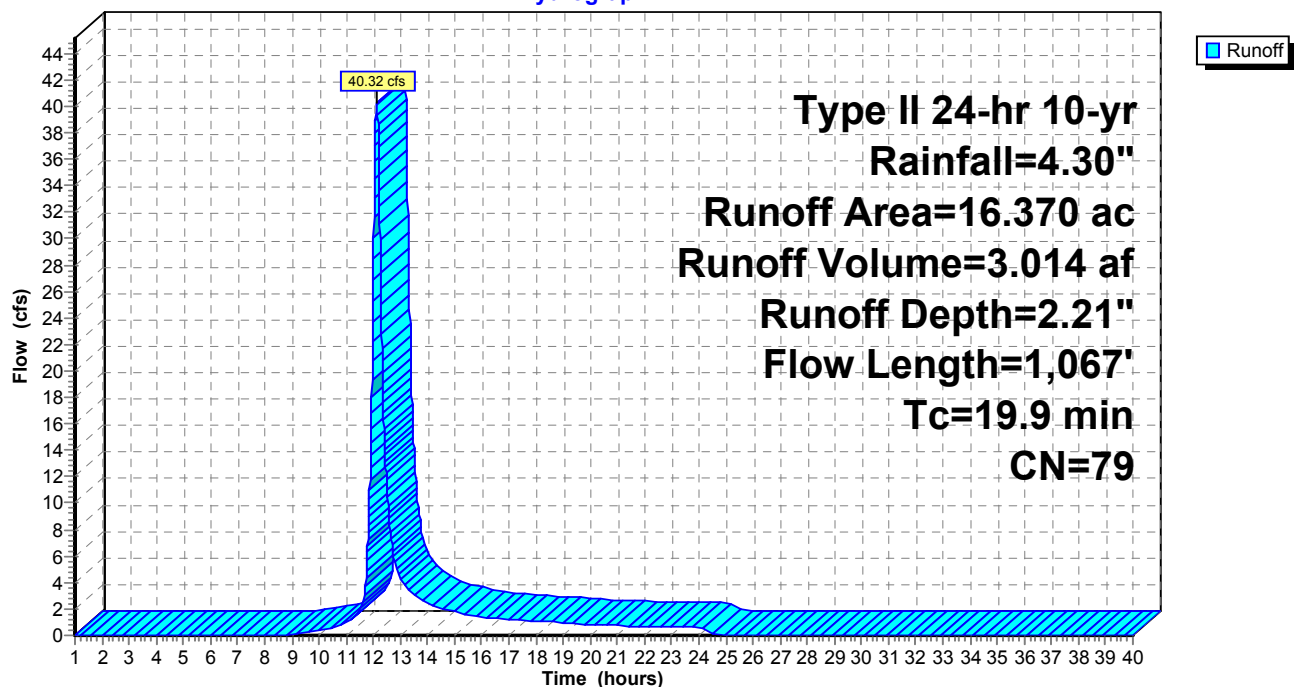
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
16.370	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,067	0.0300	0.9		Lag/CN Method,

Subcatchment W84: W84

Hydrograph



Subcatchment W85: W85

Runoff = 28.86 cfs @ 11.99 hrs, Volume= 1.551 af, Depth= 3.31"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

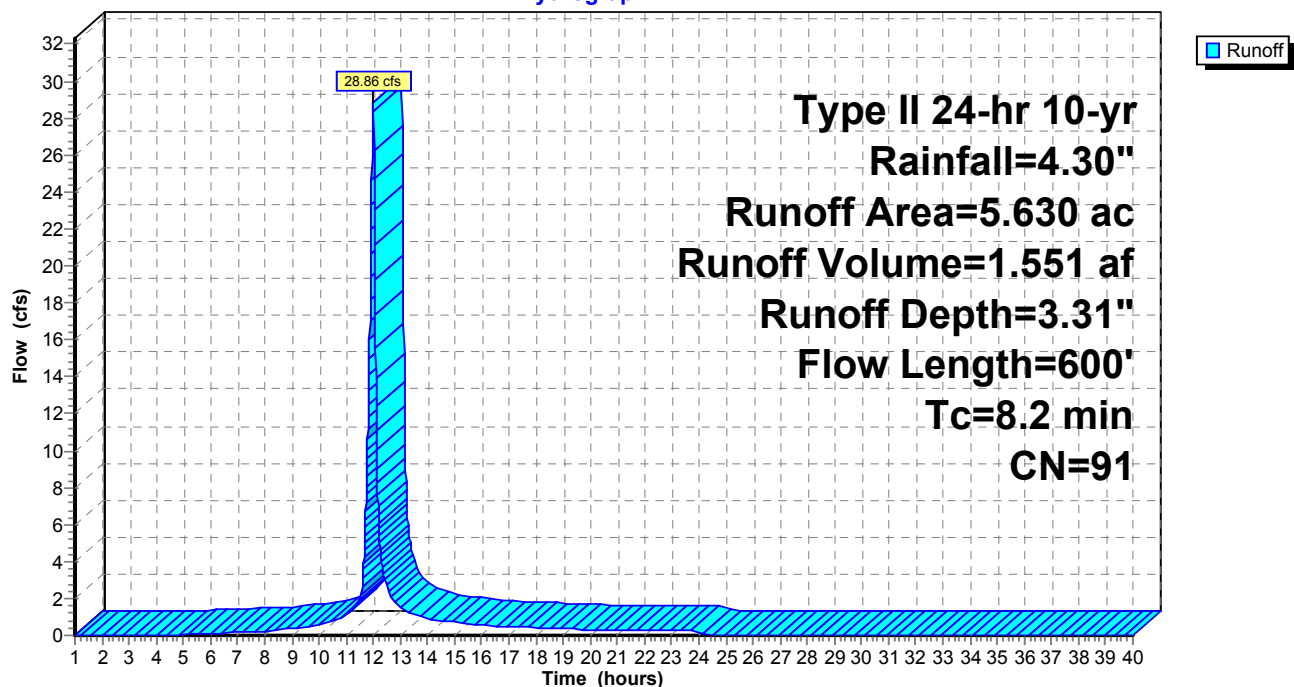
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
5.630	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	600	0.0300	1.2		Lag/CN Method,

Subcatchment W85: W85

Hydrograph



Subcatchment W86: W86

Runoff = 2.29 cfs @ 12.22 hrs, Volume= 0.488 af, Depth= 0.31"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

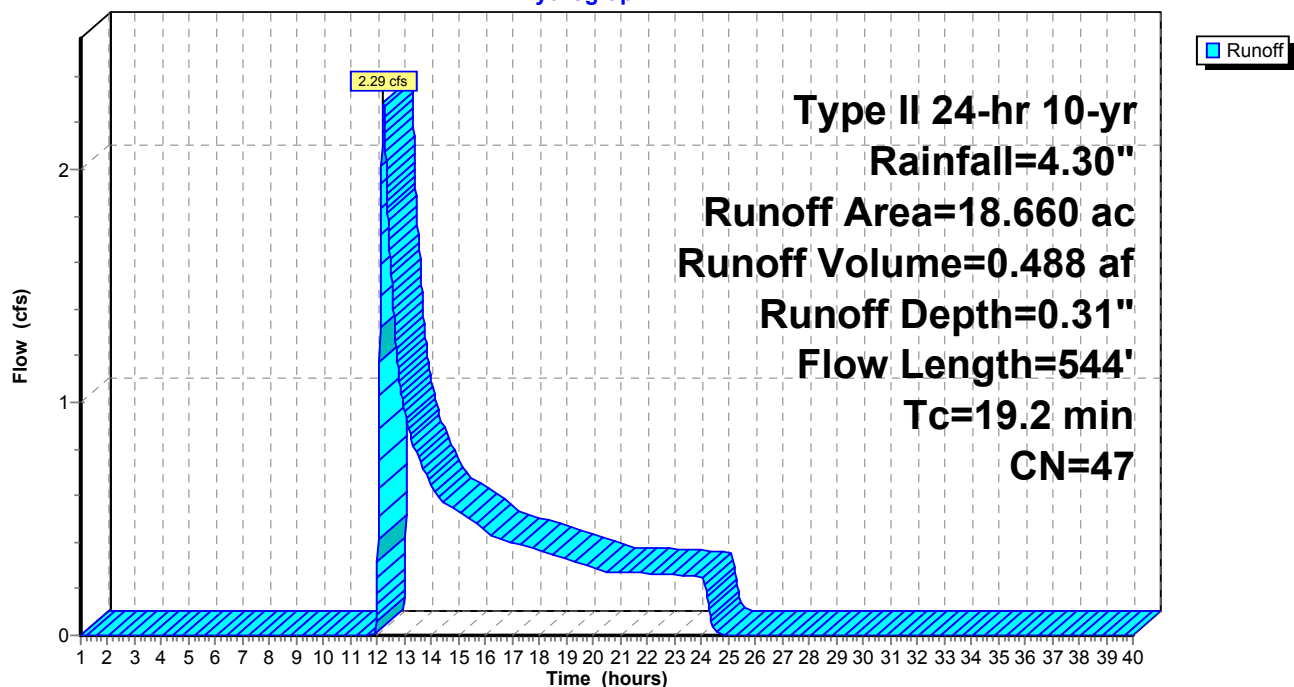
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
18.660	47	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	544	0.0600	0.5		Lag/CN Method,

Subcatchment W86: W86

Hydrograph



Subcatchment W87: W87

Runoff = 4.55 cfs @ 12.15 hrs, Volume= 0.416 af, Depth= 0.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

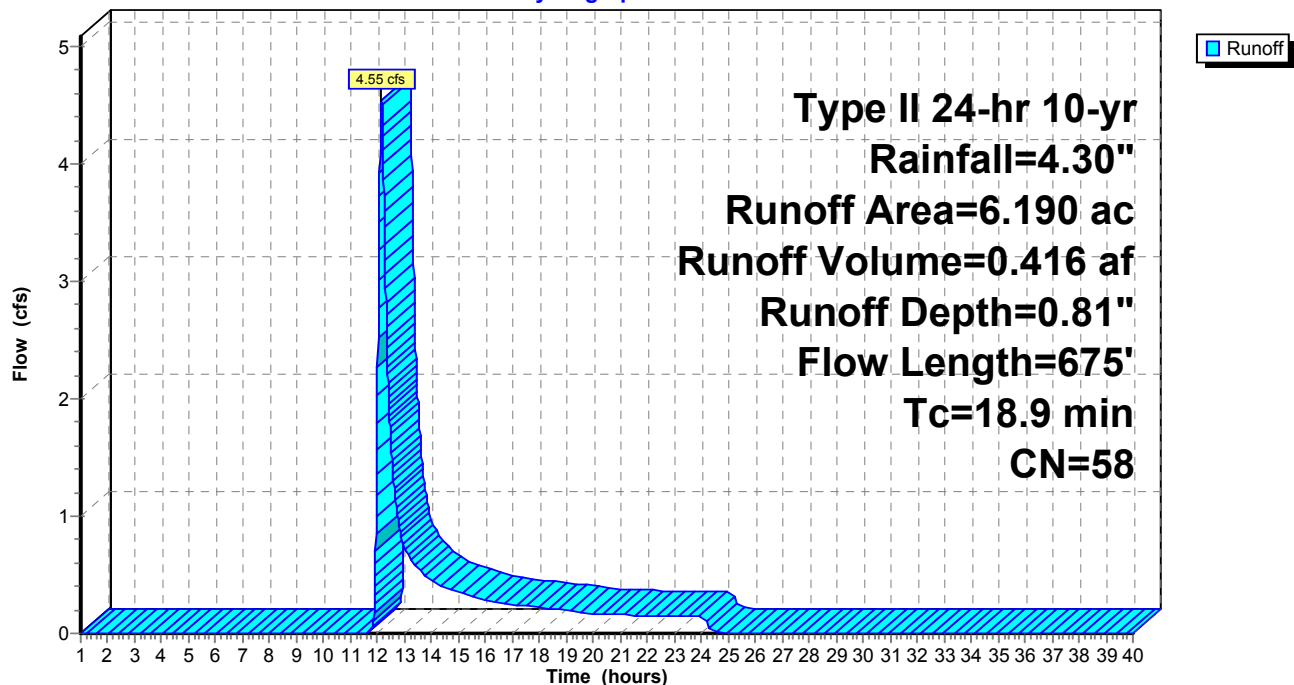
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
6.190	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.9	675	0.0500	0.6		Lag/CN Method,

Subcatchment W87: W87

Hydrograph



Subcatchment W88: W88

Runoff = 10.75 cfs @ 12.16 hrs, Volume= 1.108 af, Depth= 0.65"

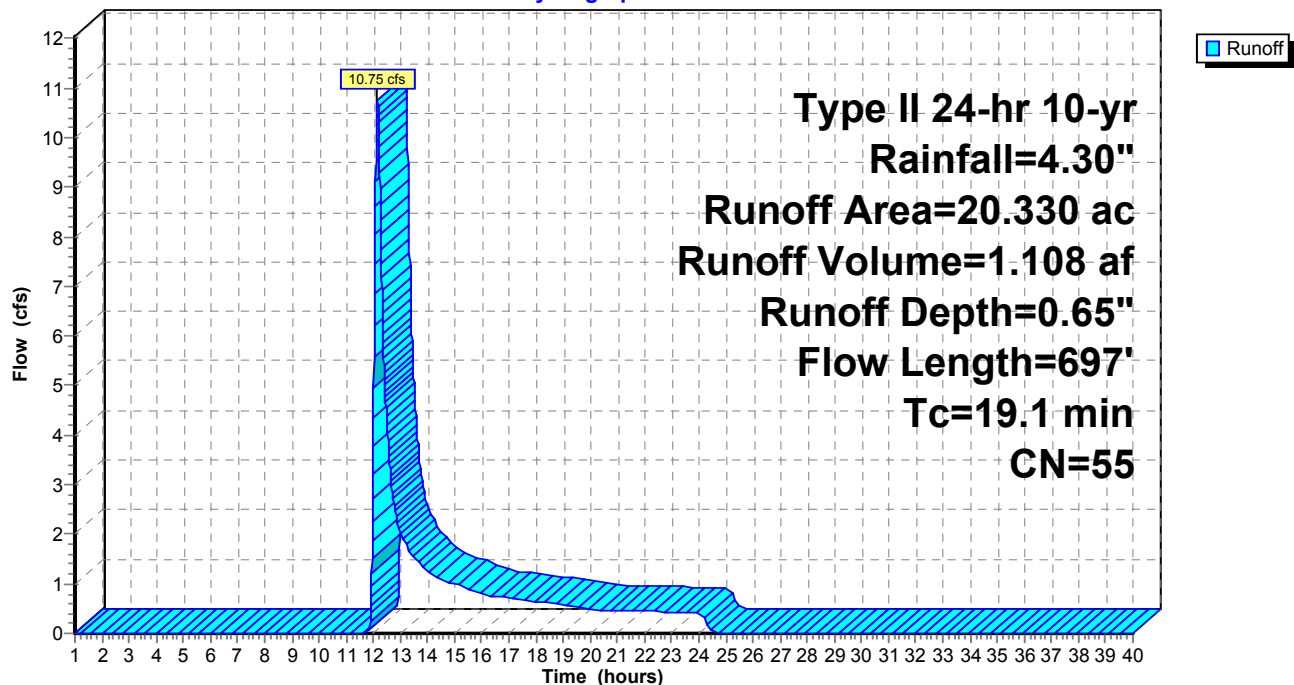
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
20.330	55	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	697	0.0600	0.6		Lag/CN Method,

Subcatchment W88: W88

Hydrograph



Subcatchment W89: W89

Runoff = 61.31 cfs @ 12.51 hrs, Volume= 8.680 af, Depth= 1.75"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

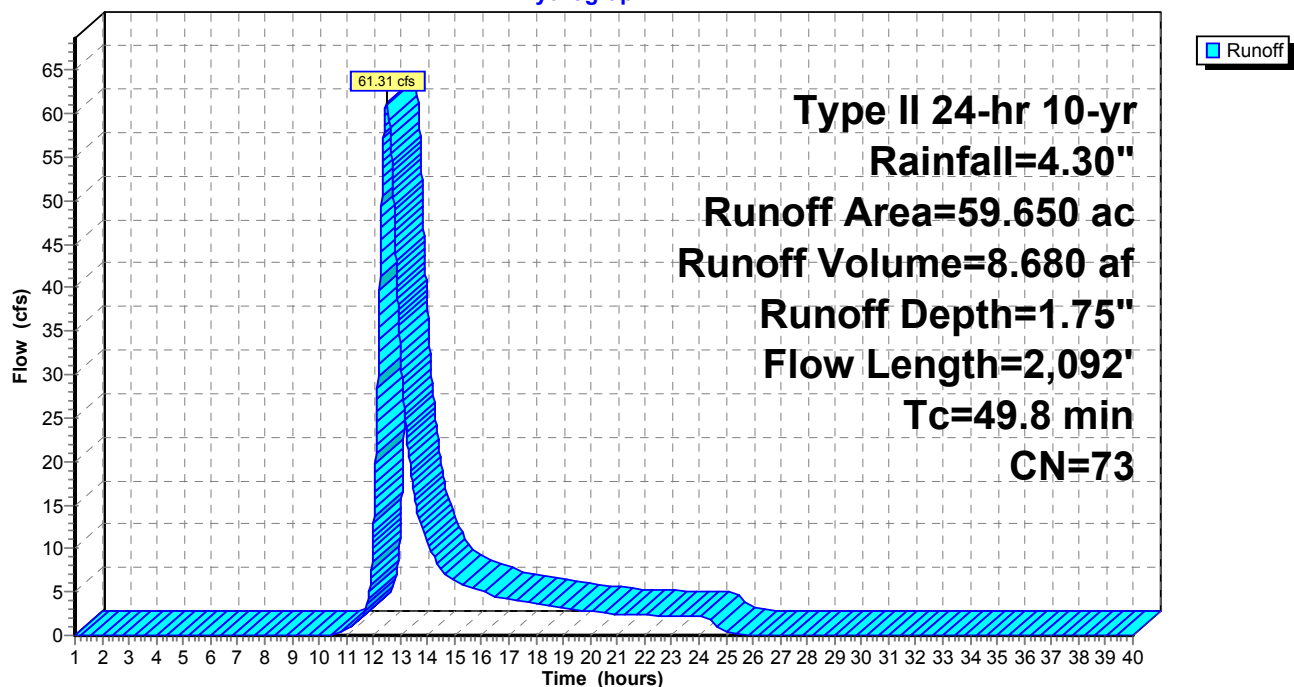
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
59.650	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	2,092	0.0200	0.7		Lag/CN Method,

Subcatchment W89: W89

Hydrograph



Subcatchment W90: W90

Runoff = 44.77 cfs @ 13.28 hrs, Volume= 11.229 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

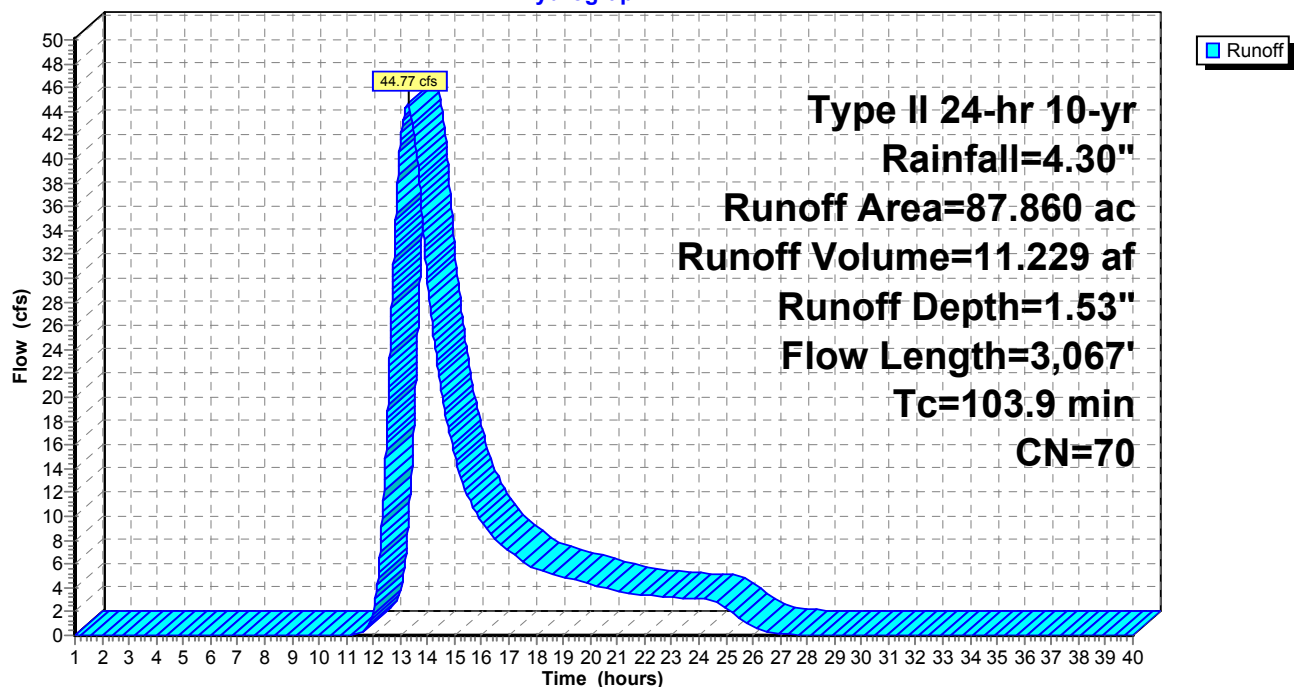
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
87.860	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
103.9	3,067	0.0100	0.5		Lag/CN Method,

Subcatchment W90: W90

Hydrograph



Subcatchment W91: W91

Runoff = 32.77 cfs @ 12.46 hrs, Volume= 4.376 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

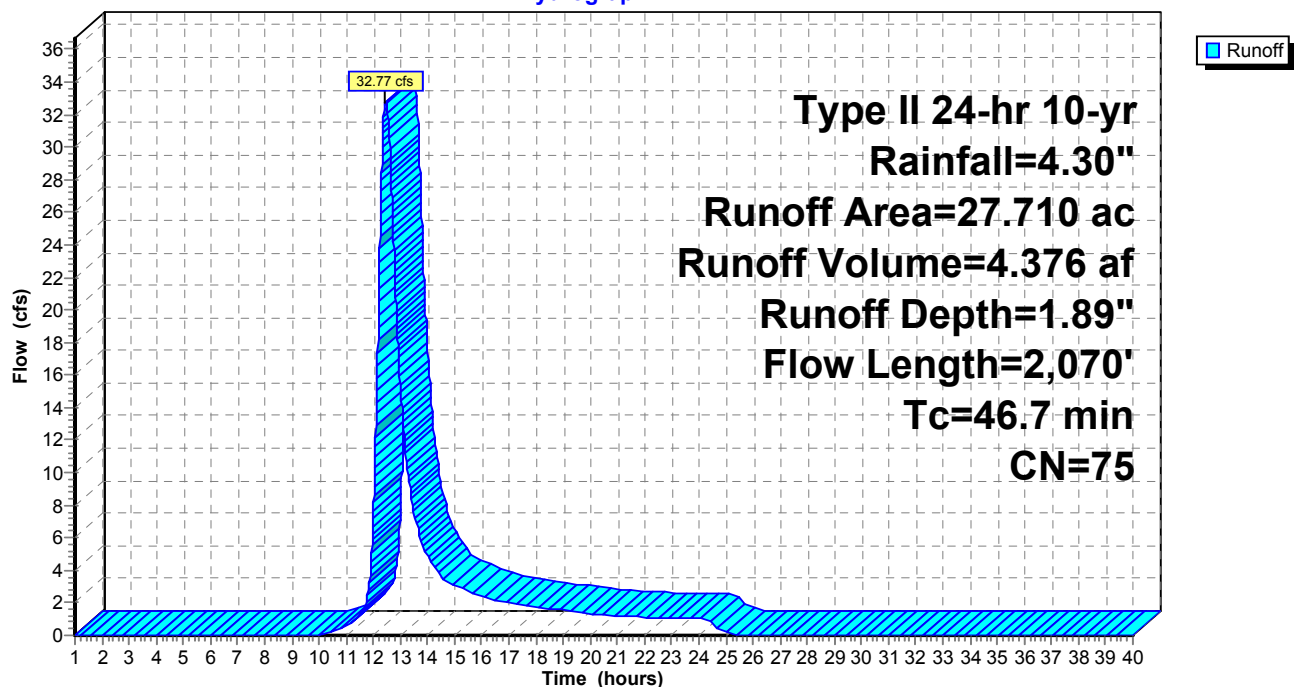
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
27.710	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	2,070	0.0200	0.7		Lag/CN Method,

Subcatchment W91: W91

Hydrograph



Subcatchment W92: W92

Runoff = 35.20 cfs @ 12.25 hrs, Volume= 3.431 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

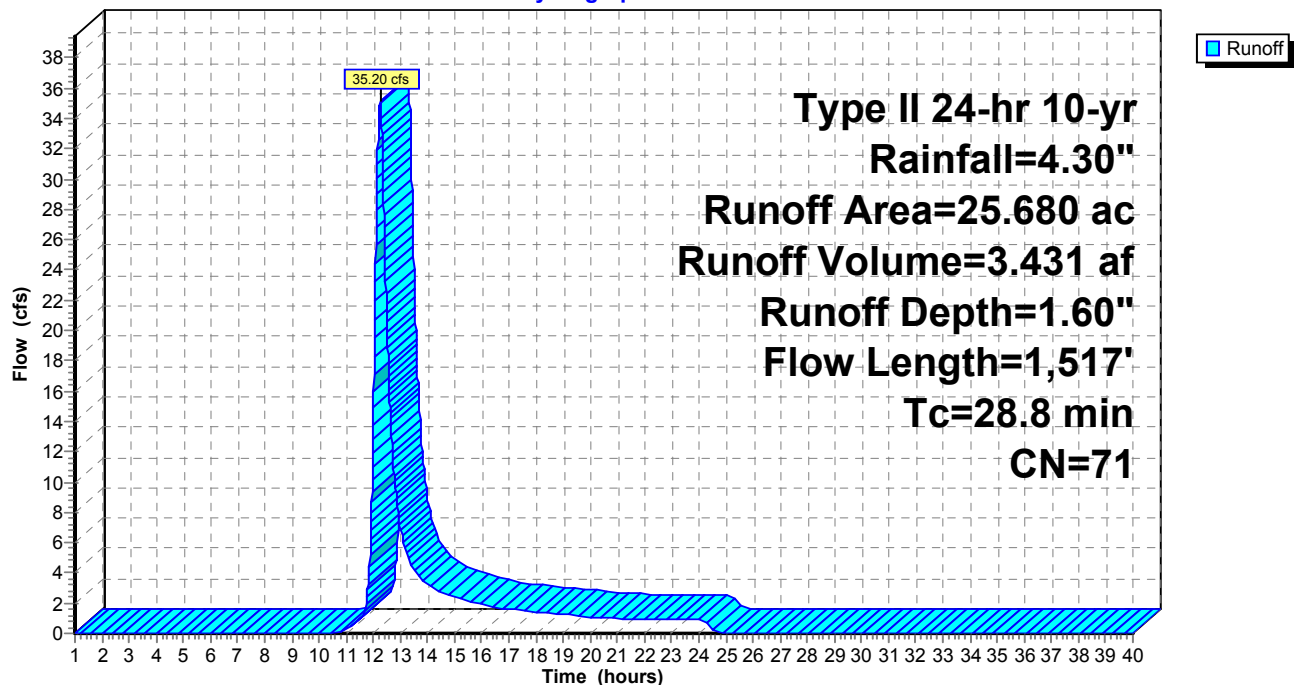
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
25.680	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	1,517	0.0400	0.9		Lag/CN Method,

Subcatchment W92: W92

Hydrograph



Subcatchment W93: W93

Runoff = 6.37 cfs @ 11.96 hrs, Volume= 0.289 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

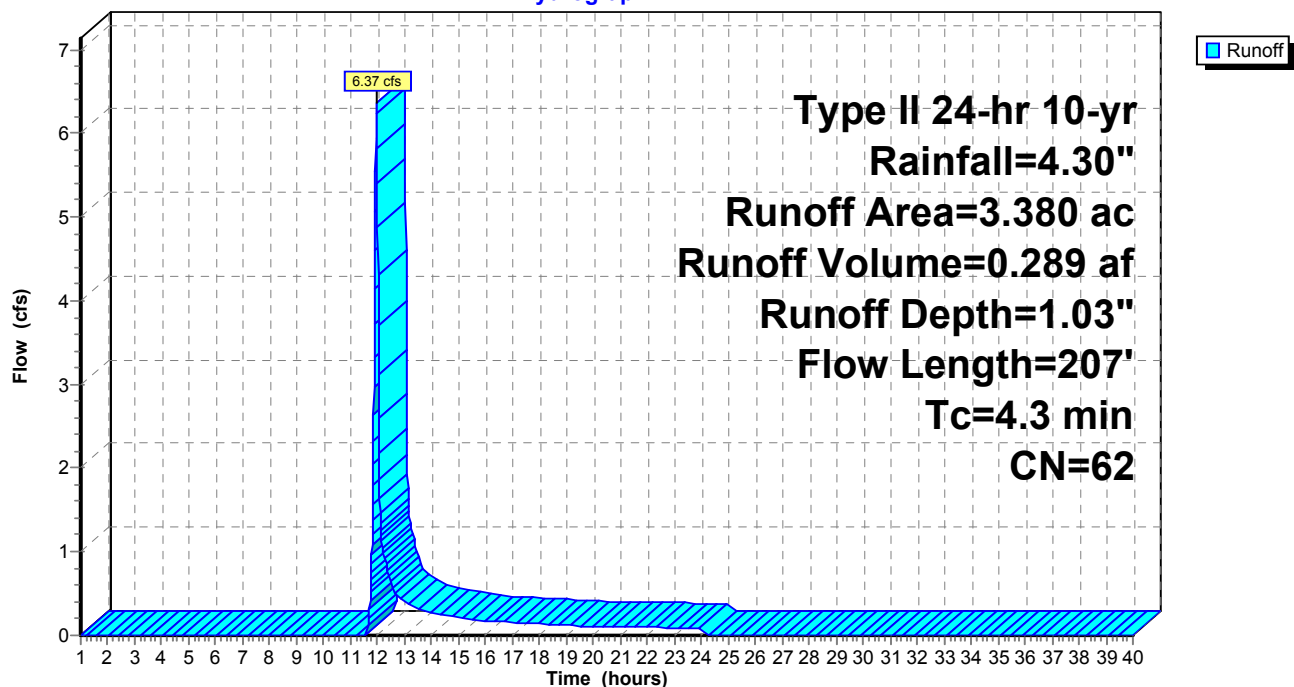
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
3.380	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	207	0.1200	0.8		Lag/CN Method,

Subcatchment W93: W93

Hydrograph



Subcatchment W94: W94

Runoff = 17.16 cfs @ 12.58 hrs, Volume= 2.754 af, Depth= 1.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

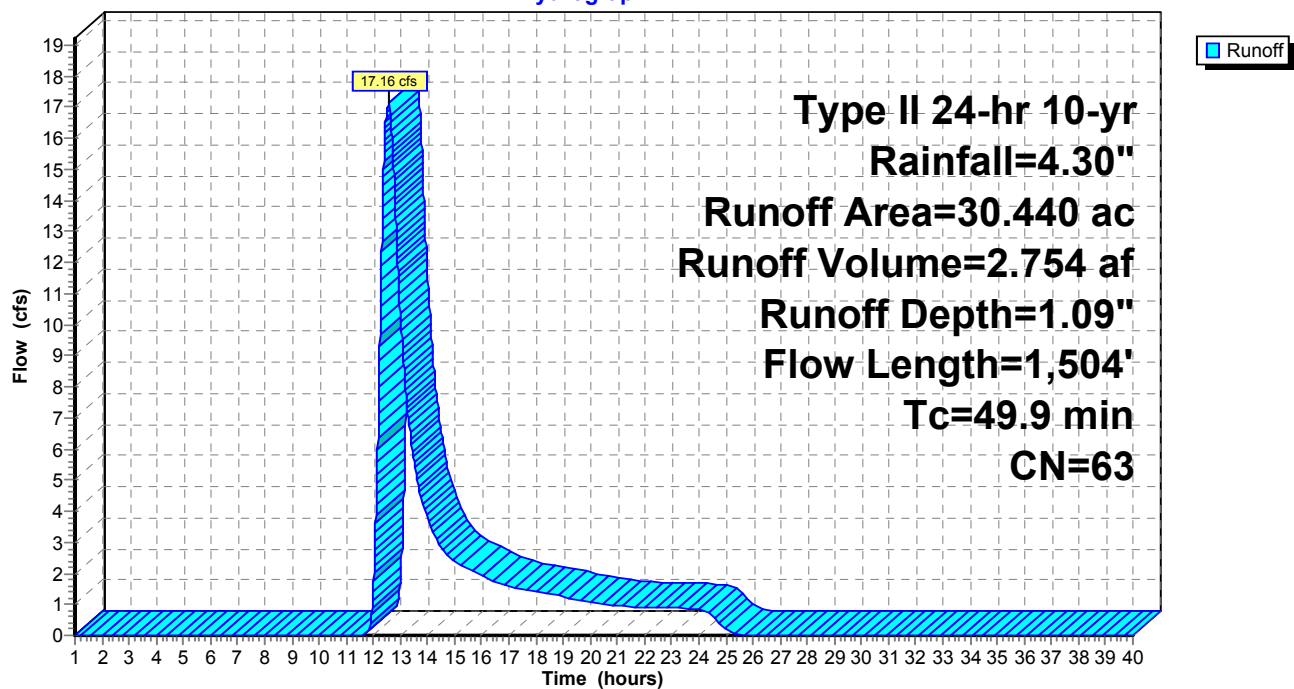
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
30.440	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.9	1,504	0.0200	0.5		Lag/CN Method,

Subcatchment W94: W94

Hydrograph



Subcatchment W95: W95

Runoff = 0.66 cfs @ 12.17 hrs, Volume= 0.183 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

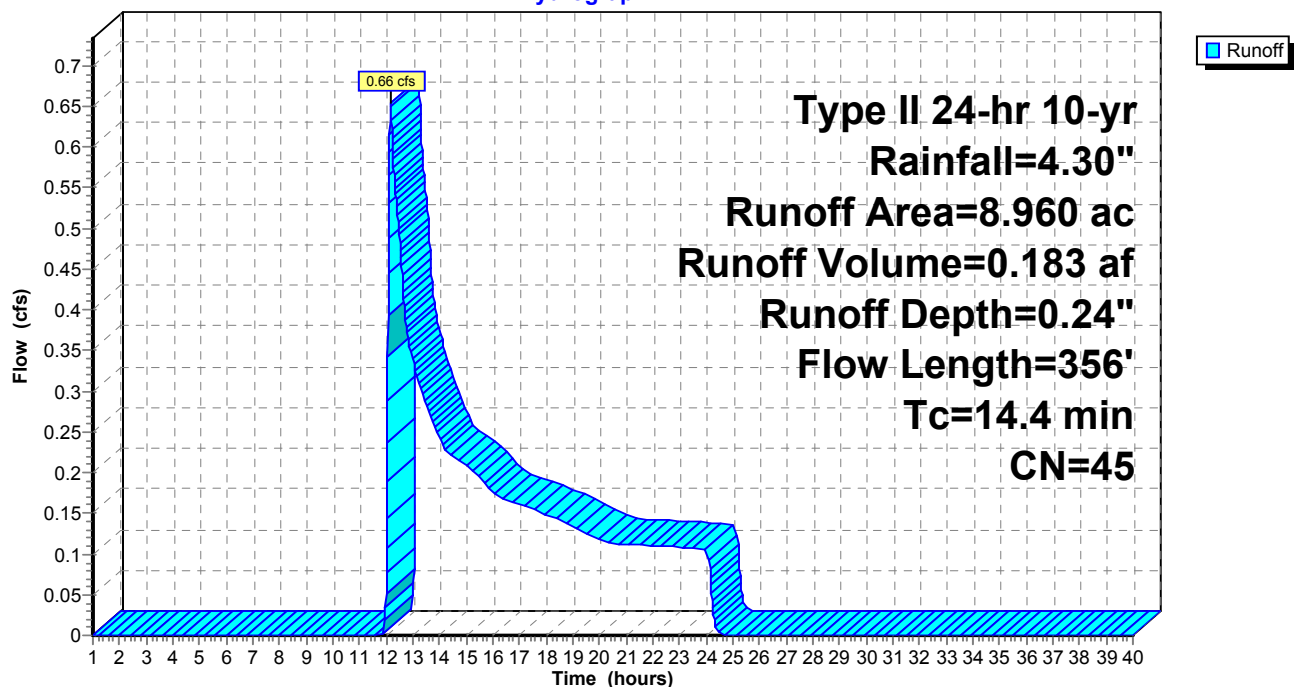
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
8.960	45	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.4	356	0.0600	0.4		Lag/CN Method,

Subcatchment W95: W95

Hydrograph



Subcatchment W96: W96

Runoff = 28.07 cfs @ 12.17 hrs, Volume= 2.309 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

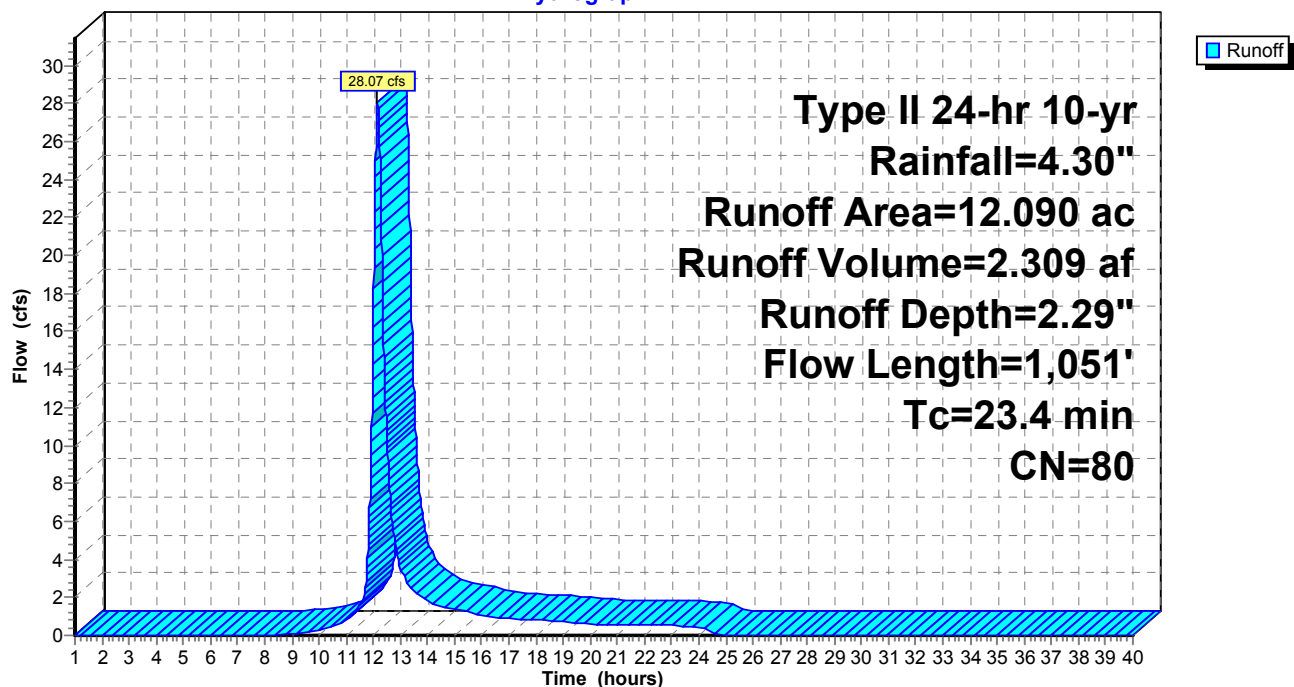
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
12.090	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,051	0.0200	0.7		Lag/CN Method,

Subcatchment W96: W96

Hydrograph



Subcatchment W97: W97

Runoff = 19.28 cfs @ 12.01 hrs, Volume= 1.019 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

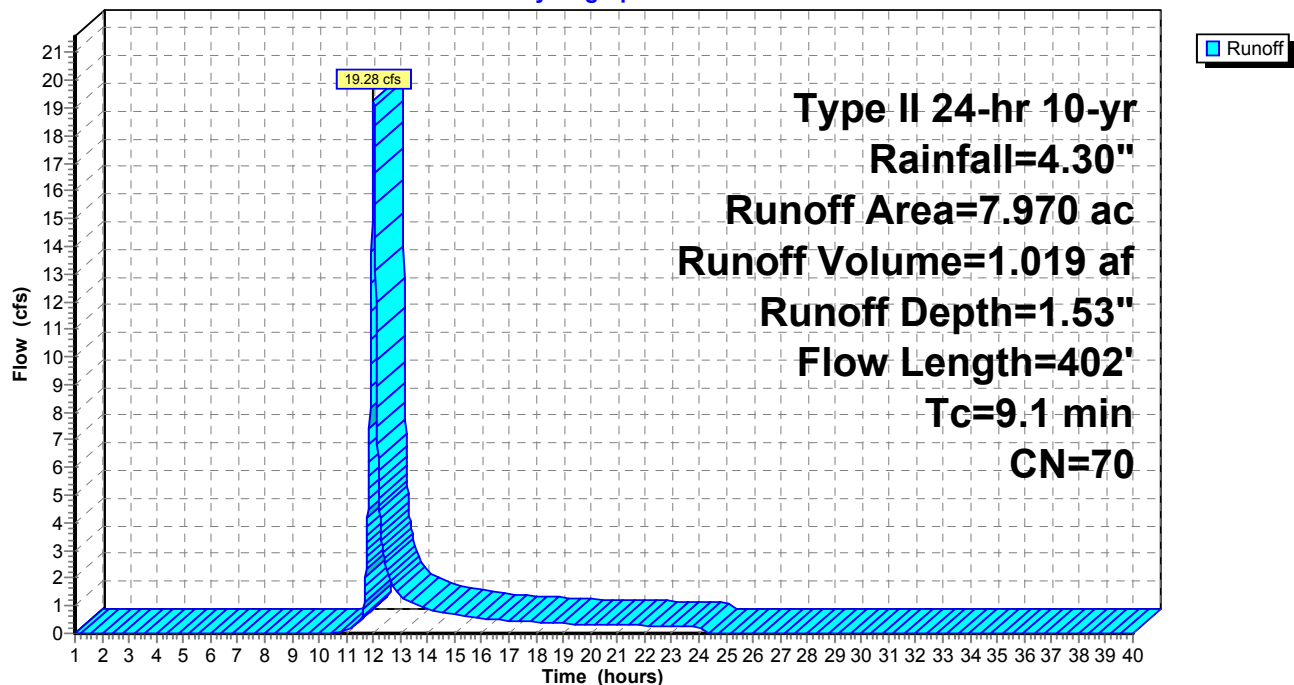
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
7.970	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	402	0.0500	0.7		Lag/CN Method,

Subcatchment W97: W97

Hydrograph



Subcatchment W98: W98

Runoff = 7.00 cfs @ 12.22 hrs, Volume= 0.734 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

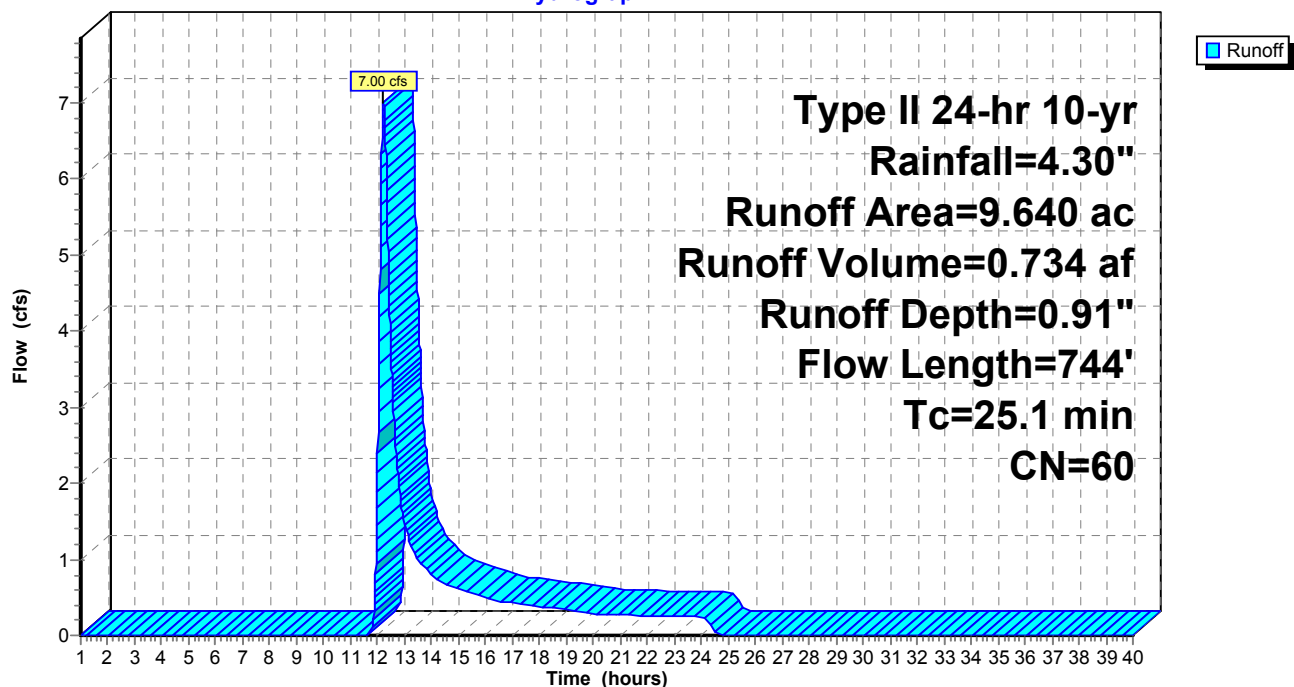
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
9.640	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	744	0.0300	0.5		Lag/CN Method,

Subcatchment W98: W98

Hydrograph



Subcatchment W99: W99

Runoff = 7.95 cfs @ 12.00 hrs, Volume= 0.409 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

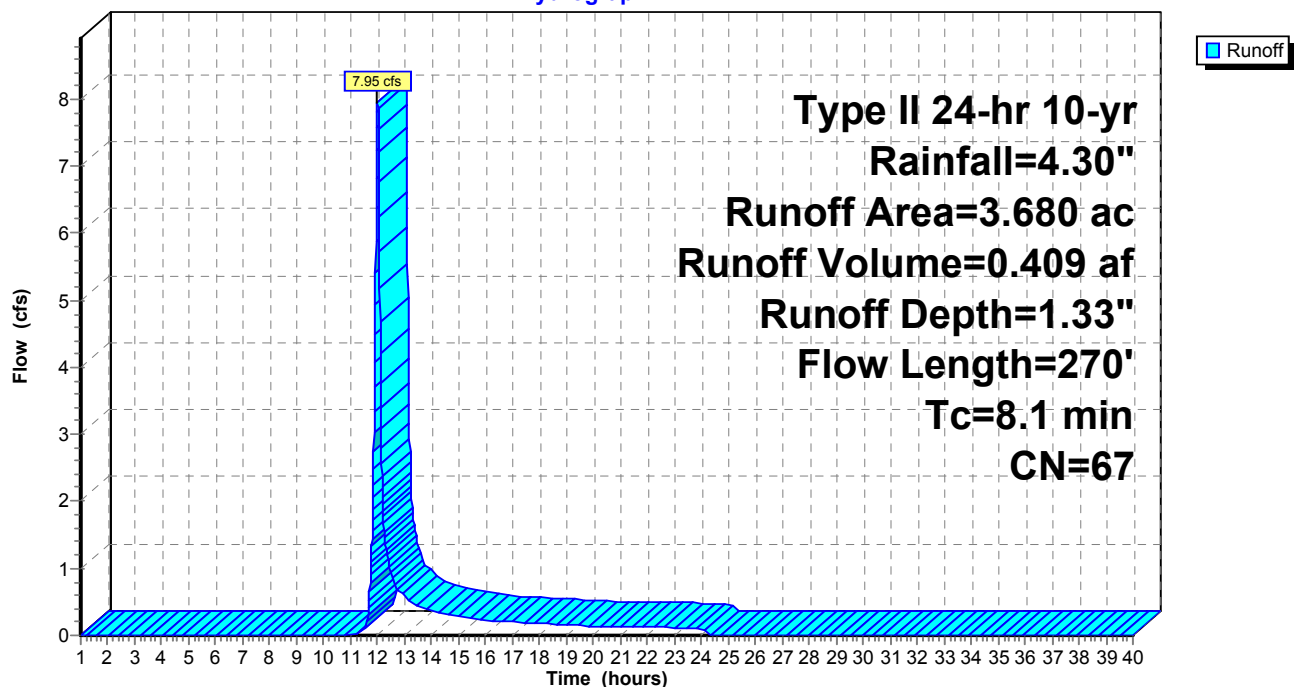
Type II 24-hr 10-yr Rainfall=4.30"

Area (ac)	CN	Description
3.680	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	270	0.0400	0.6		Lag/CN Method,

Subcatchment W99: W99

Hydrograph



Reach 4R: (new Reach)

Inflow Area = 47.571 ac, Inflow Depth > 0.92" for 10-yr event
Inflow = 2.65 cfs @ 16.22 hrs, Volume= 3.649 af
Outflow = 2.65 cfs @ 16.34 hrs, Volume= 3.638 af, Atten= 0%, Lag= 7.1 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 1.7 fps, Min. Travel Time= 9.1 min

Avg. Velocity = 1.4 fps, Avg. Travel Time= 11.3 min

Peak Depth= 0.25' @ 16.34 hrs

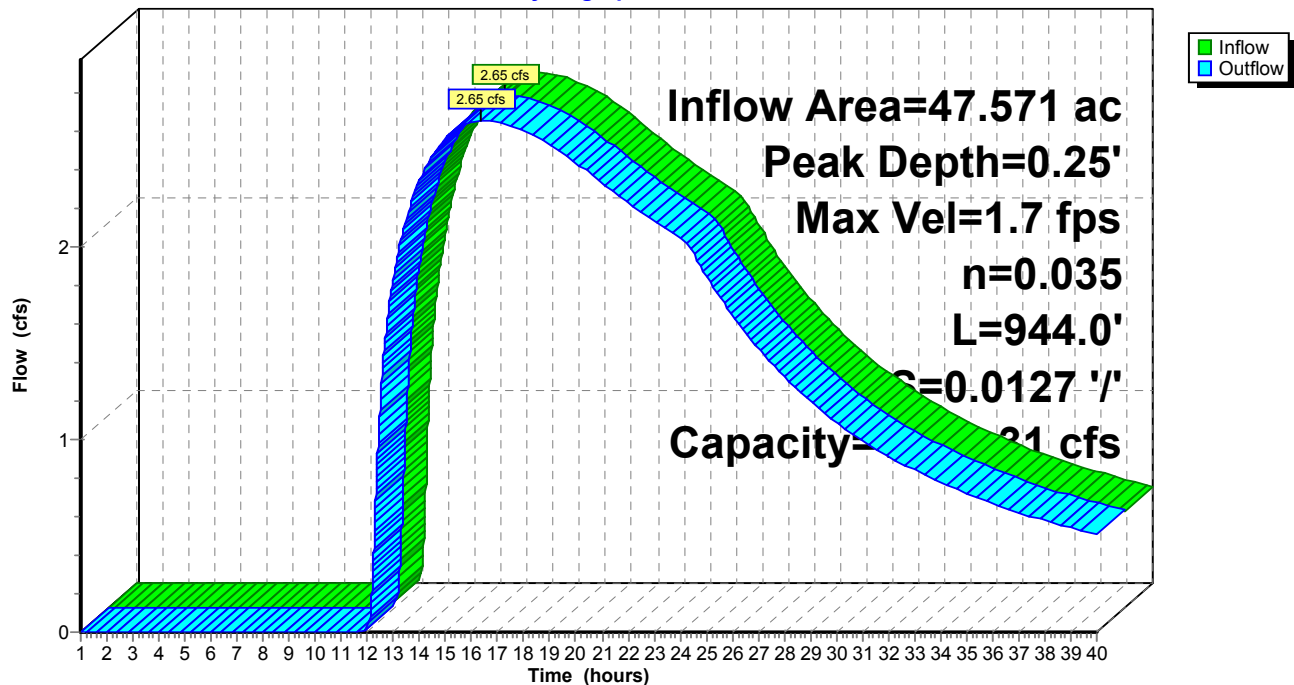
Capacity at bank full= 1,161.31 cfs

Inlet Invert= 980.00', Outlet Invert= 968.00'

5.00' x 5.00' deep channel, n= 0.035 Earth, dense weeds

Side Slope Z-value= 4.0 '/' Top Width= 45.00'

Length= 944.0' Slope= 0.0127 '/'

Reach 4R: (new Reach)**Hydrograph**

Reach 6R: (new Reach)

Inflow Area = 18.570 ac, Inflow Depth = 2.08" for 10-yr event
Inflow = 80.30 cfs @ 11.96 hrs, Volume= 3.211 af
Outflow = 71.06 cfs @ 11.98 hrs, Volume= 3.211 af, Atten= 12%, Lag= 1.2 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.1 fps, Min. Travel Time= 2.7 min

Avg. Velocity = 1.0 fps, Avg. Travel Time= 8.1 min

Peak Depth= 1.93' @ 11.98 hrs

Capacity at bank full= 20.54 cfs

Inlet Invert= 1,108.00', Outlet Invert= 1,070.00'

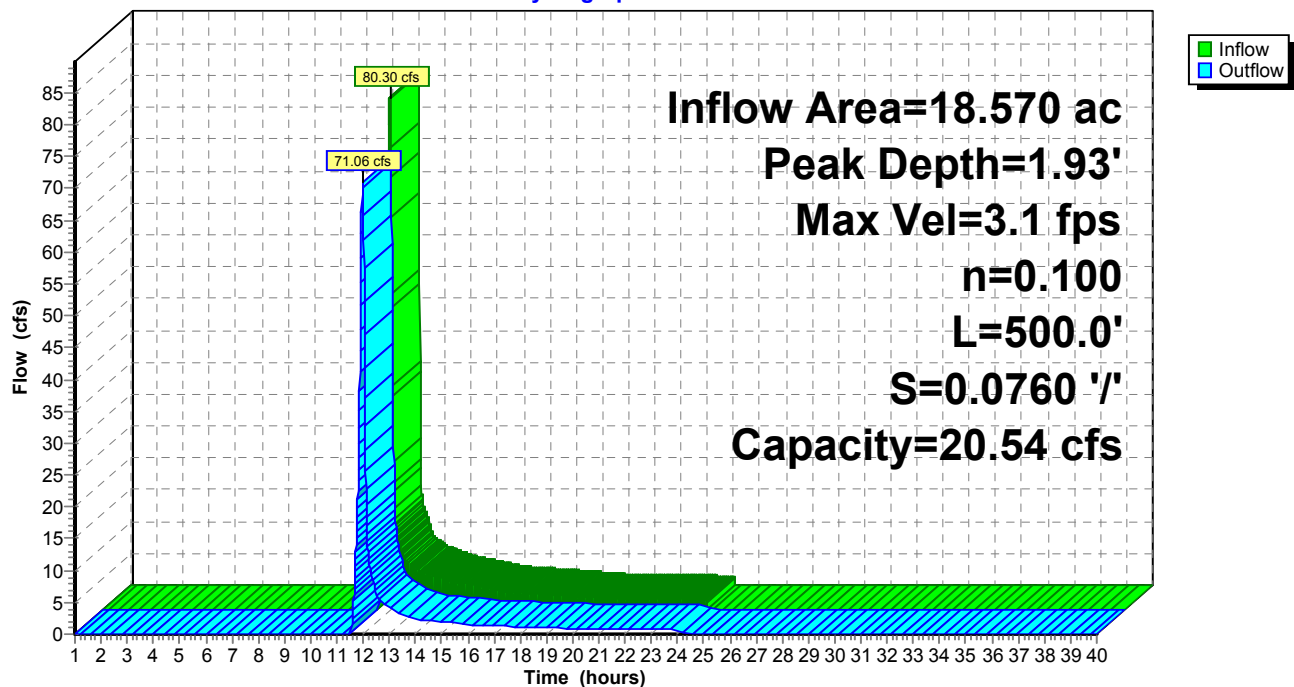
0.00' x 1.00' deep channel, n= 0.100 Earth, dense brush, high stage

Side Slope Z-value= 8.0 '/' Top Width= 16.00'

Length= 500.0' Slope= 0.0760 '/'

Reach 6R: (new Reach)

Hydrograph



Reach A1R: A1R

Inflow Area = 36.474 ac, Inflow Depth > 1.01" for 10-yr event
Inflow = 2.49 cfs @ 16.04 hrs, Volume= 3.067 af
Outflow = 2.49 cfs @ 16.10 hrs, Volume= 3.062 af, Atten= 0%, Lag= 3.9 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.0 fps, Min. Travel Time= 5.5 min

Avg. Velocity = 2.3 fps, Avg. Travel Time= 7.2 min

Peak Depth= 0.24' @ 16.10 hrs

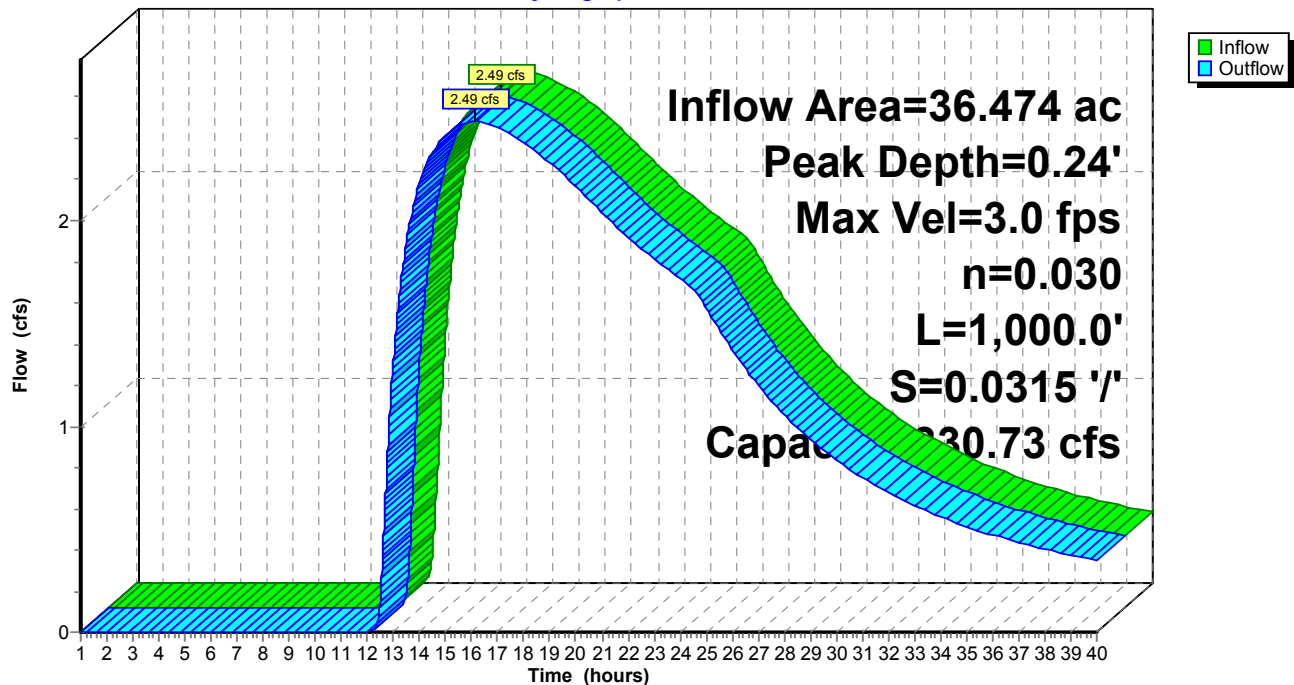
Capacity at bank full= 330.73 cfs

Inlet Invert= 1,092.50', Outlet Invert= 1,061.00'

3.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 15.00'

Length= 1,000.0' Slope= 0.0315 '/'

Reach A1R: A1R**Hydrograph**

Reach A4R: A4R

Inflow Area = 34.000 ac, Inflow Depth > 0.90" for 10-yr event
Inflow = 1.56 cfs @ 19.43 hrs, Volume= 2.557 af
Outflow = 1.56 cfs @ 19.55 hrs, Volume= 2.545 af, Atten= 0%, Lag= 7.7 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.2 fps, Min. Travel Time= 11.4 min

Avg. Velocity = 1.9 fps, Avg. Travel Time= 13.0 min

Peak Depth= 0.28' @ 19.55 hrs

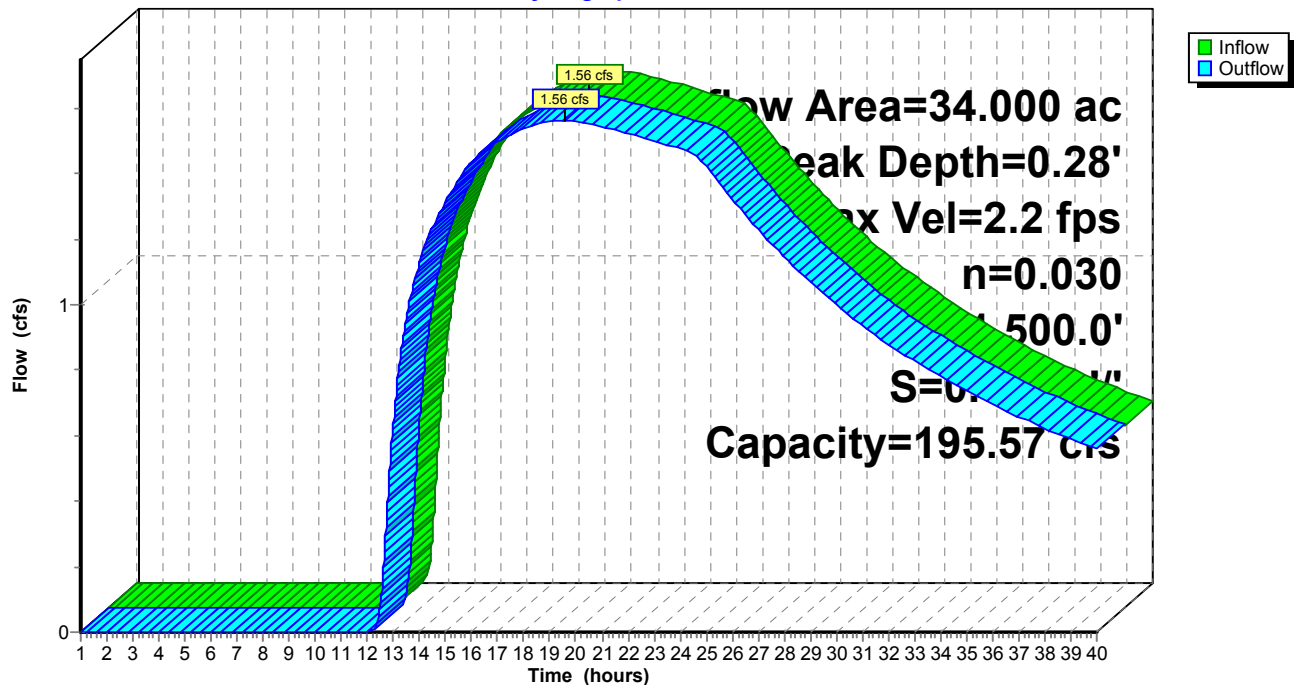
Capacity at bank full= 195.57 cfs

Inlet Invert= 1,083.50', Outlet Invert= 1,061.00'

2.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 14.00'

Length= 1,500.0' Slope= 0.0150 '/'

Reach A4R: A4R**Hydrograph**

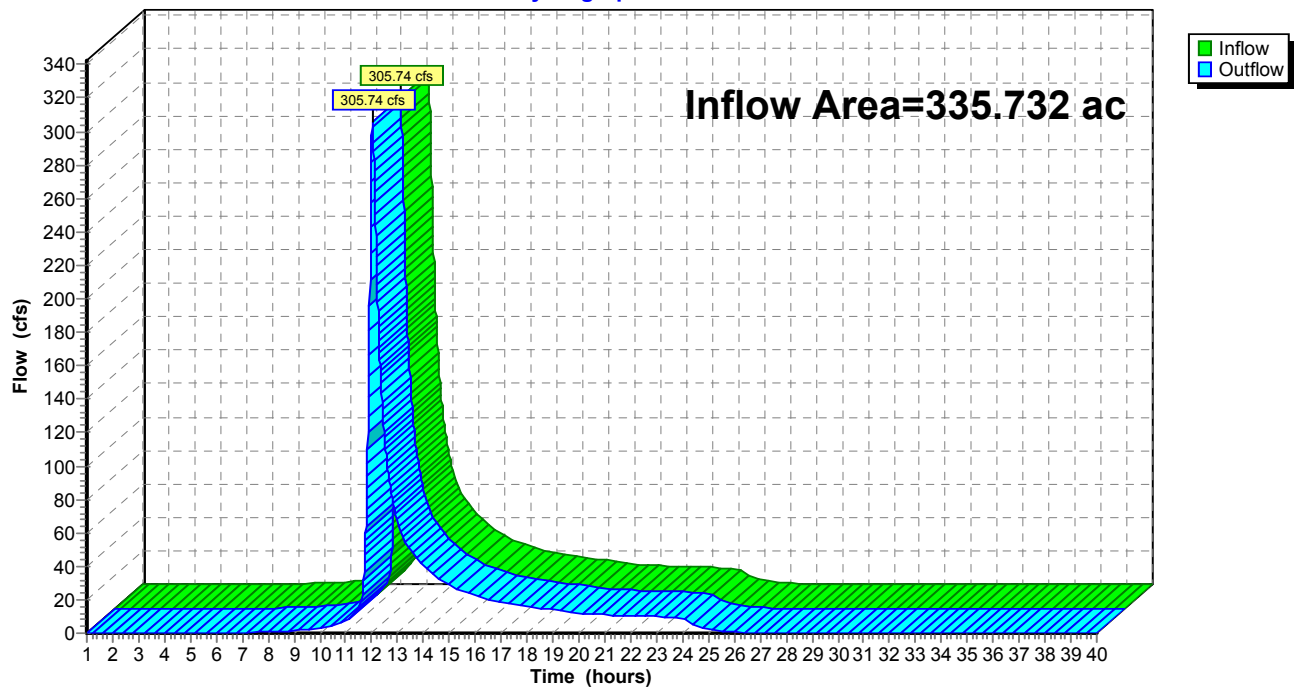
Reach Apple River 1: Apple River-Above Dam

Inflow Area = 335.732 ac, Inflow Depth = 1.26" for 10-yr event
Inflow = 305.74 cfs @ 12.03 hrs, Volume= 35.300 af
Outflow = 305.74 cfs @ 12.03 hrs, Volume= 35.300 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 1: Apple River-Above Dam

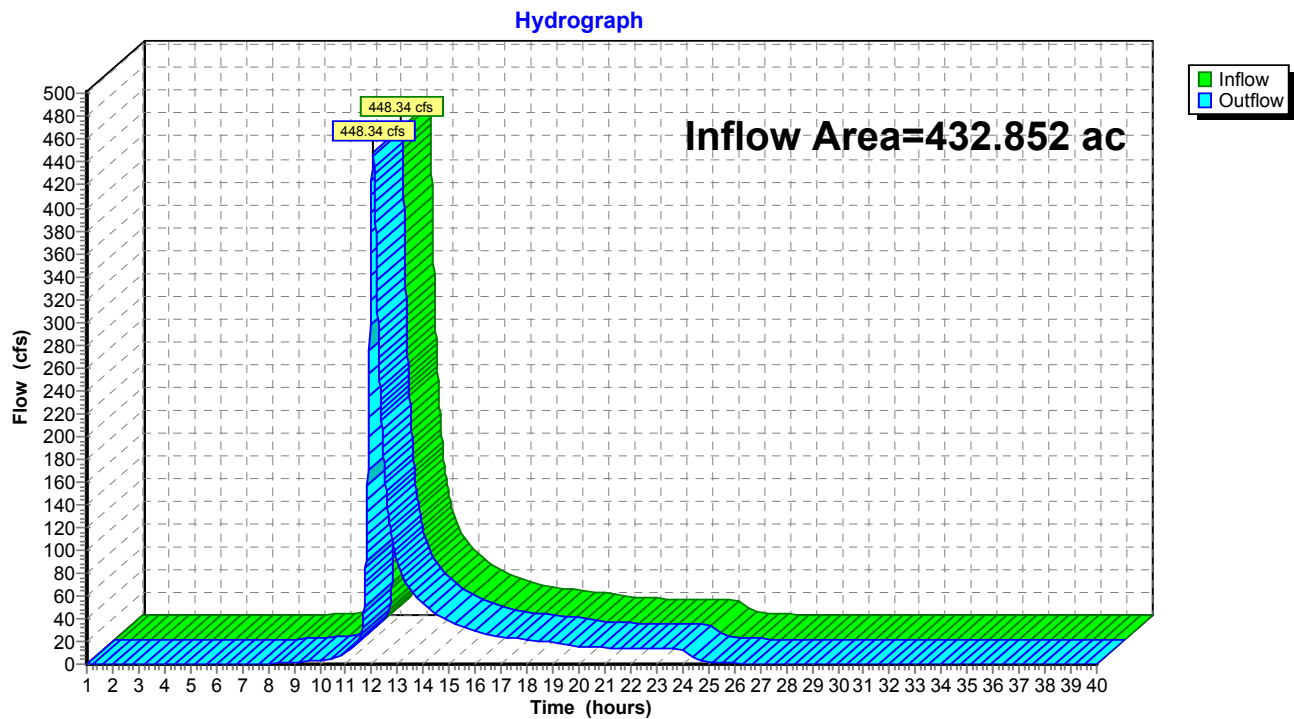
Hydrograph



Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Inflow Area = 432.852 ac, Inflow Depth = 1.35" for 10-yr event
Inflow = 448.34 cfs @ 12.05 hrs, Volume= 48.618 af
Outflow = 448.34 cfs @ 12.05 hrs, Volume= 48.618 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

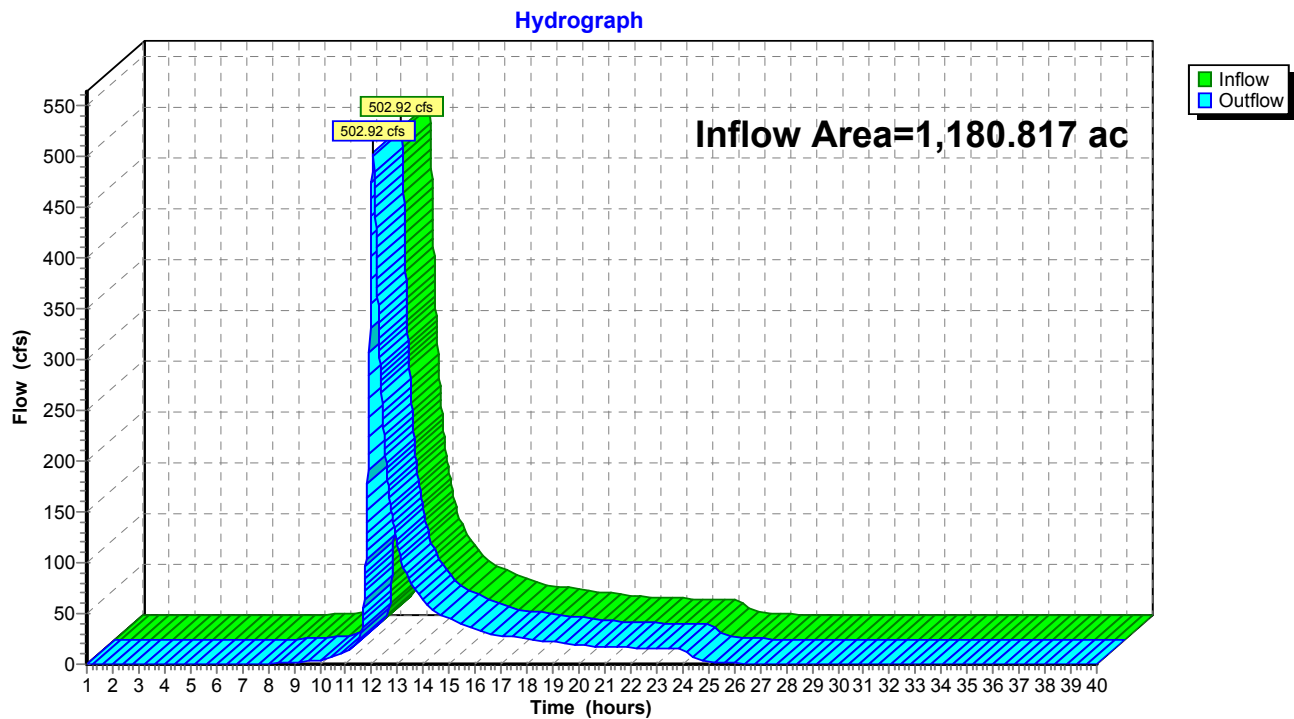
Reach Apple River 3: Apple River - At South Twin Outlet

Inflow Area = 1,180.817 ac, Inflow Depth > 0.59" for 10-yr event

Inflow = 502.92 cfs @ 12.05 hrs, Volume= 58.338 af

Outflow = 502.92 cfs @ 12.05 hrs, Volume= 58.338 af, Atten= 0%, Lag= 0.0 min

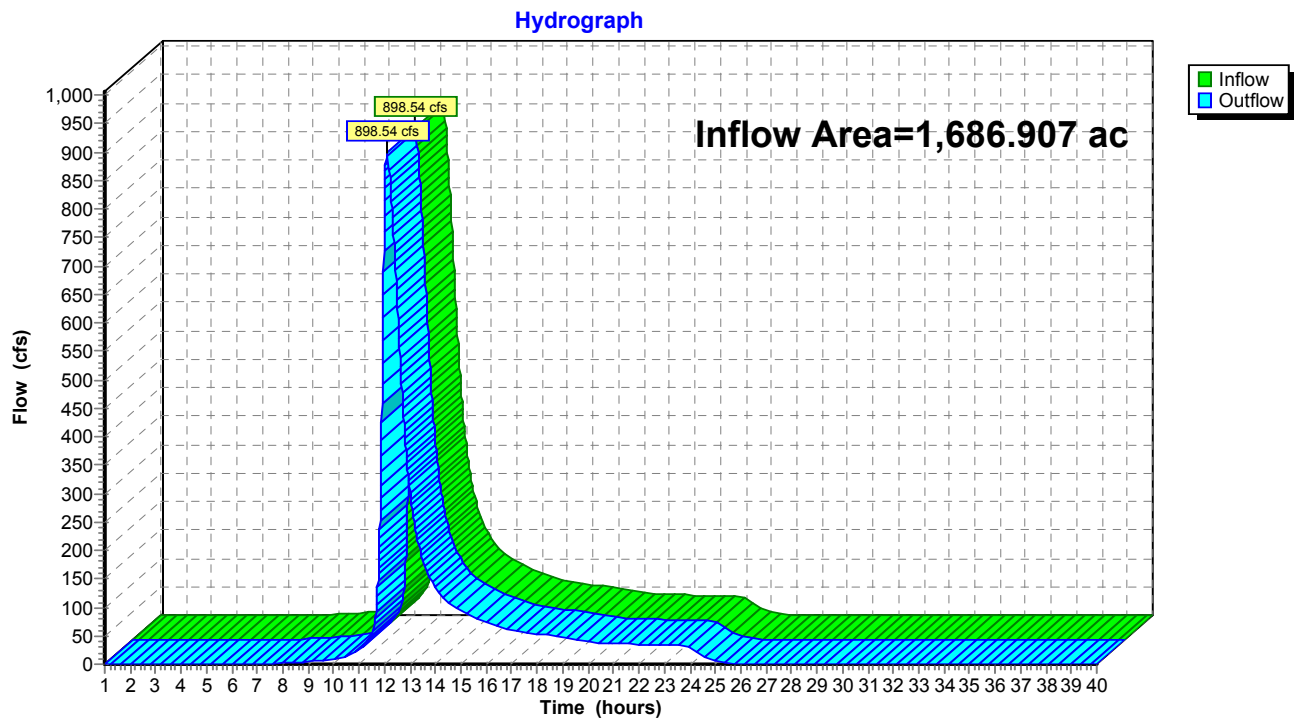
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 3: Apple River - At South Twin Outlet

Reach Apple River 4: Apple River Downstream of South Twin Outlet

Inflow Area = 1,686.907 ac, Inflow Depth > 0.92" for 10-yr event
Inflow = 898.54 cfs @ 12.10 hrs, Volume= 129.300 af
Outflow = 898.54 cfs @ 12.10 hrs, Volume= 129.300 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 4: Apple River Downstream of South Twin Outlet

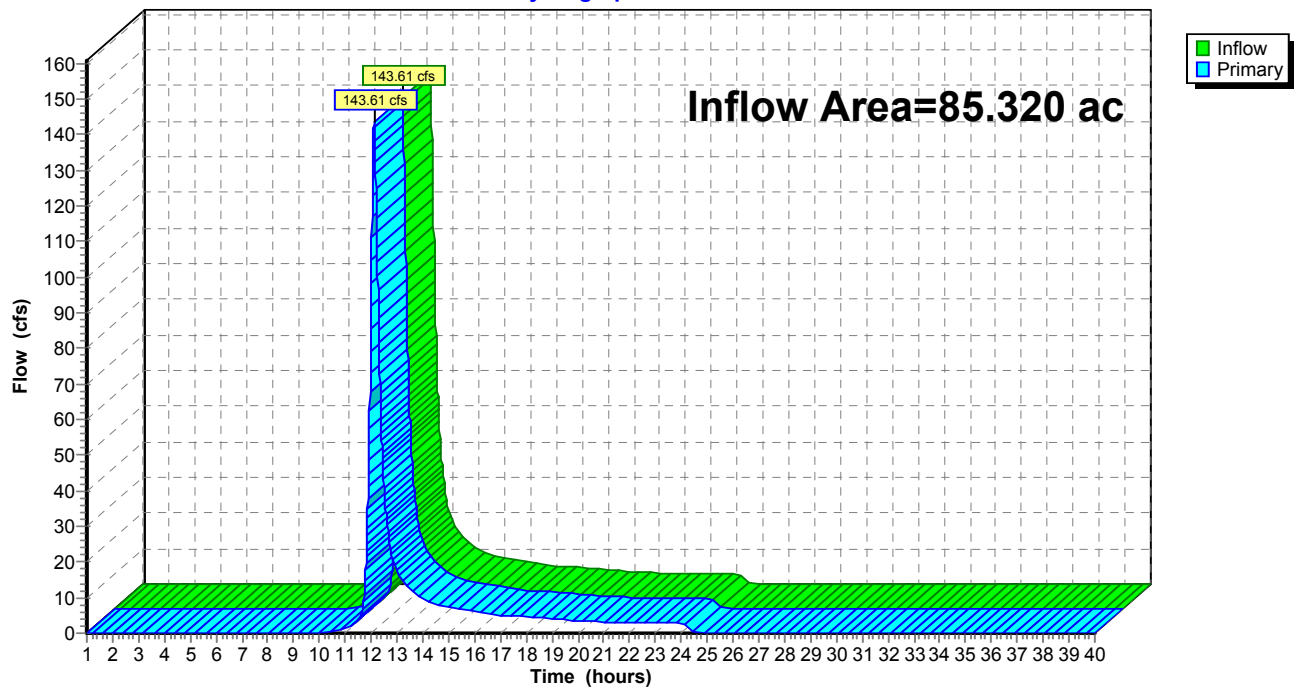
Pond 1P: (new Pond)

Inflow Area = 85.320 ac, Inflow Depth = 1.56" for 10-yr event
Inflow = 143.61 cfs @ 12.11 hrs, Volume= 11.102 af
Primary = 143.61 cfs @ 12.11 hrs, Volume= 11.102 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 1P: (new Pond)

Hydrograph



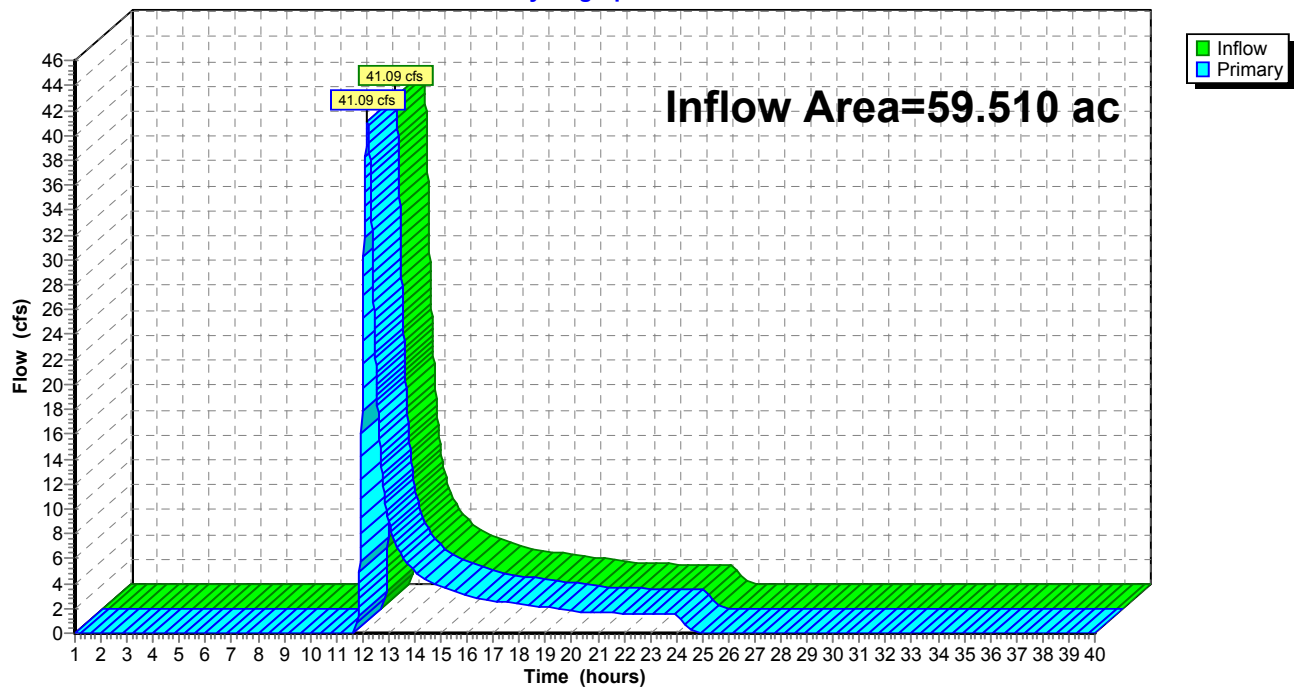
Pond 2P: (new Pond)

Inflow Area = 59.510 ac, Inflow Depth = 0.93" for 10-yr event
Inflow = 41.09 cfs @ 12.19 hrs, Volume= 4.615 af
Primary = 41.09 cfs @ 12.19 hrs, Volume= 4.615 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 2P: (new Pond)

Hydrograph



Pond 3P: (new Pond)

Inflow Area = 47.571 ac, Inflow Depth = 1.21" for 10-yr event
 Inflow = 75.97 cfs @ 12.06 hrs, Volume= 4.784 af
 Outflow = 2.65 cfs @ 16.22 hrs, Volume= 3.649 af, Atten= 97%, Lag= 249.6 min
 Primary = 2.65 cfs @ 16.22 hrs, Volume= 3.649 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.57' @ 16.22 hrs Surf.Area= 225,320 sf Storage= 123,400 cf
 Plug-Flow detention time= 578.3 min calculated for 3.648 af (76% of inflow)
 Center-of-Mass det. time= 479.0 min (1,352.8 - 873.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,068.00'	4,623,972 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

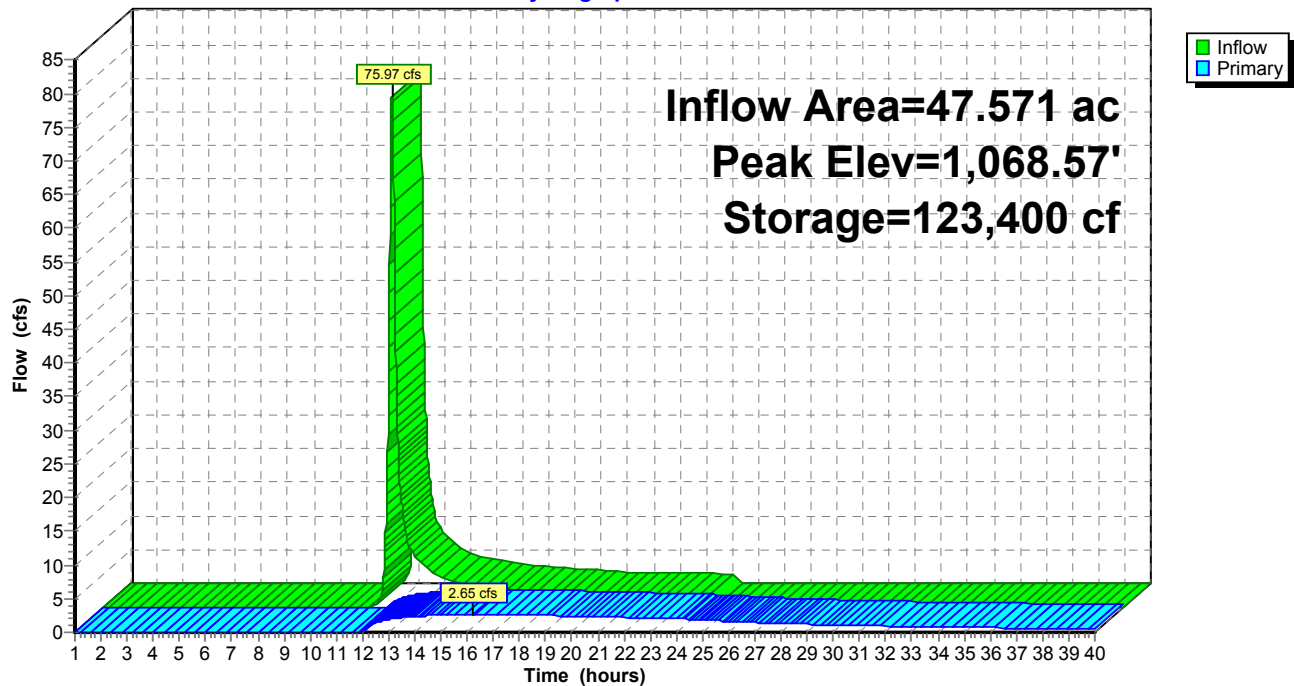
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,068.00	208,562	0	0
1,080.00	562,100	4,623,972	4,623,972

Device	Routing	Invert	Outlet Devices
#1	Primary	1,068.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 10.00 Width (feet) 1.00 40.00

Primary OutFlow Max=2.65 cfs @ 16.22 hrs HW=1,068.57' TW=980.25' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Weir Controls 2.65 cfs @ 2.2 fps)

Pond 3P: (new Pond)

Hydrograph



Pond 5P: (new Pond)

Inflow Area = 18.570 ac, Inflow Depth = 2.21" for 10-yr event
 Inflow = 78.73 cfs @ 11.95 hrs, Volume= 3.419 af
 Outflow = 80.30 cfs @ 11.96 hrs, Volume= 3.211 af, Atten= 0%, Lag= 0.6 min
 Primary = 80.30 cfs @ 11.96 hrs, Volume= 3.211 af

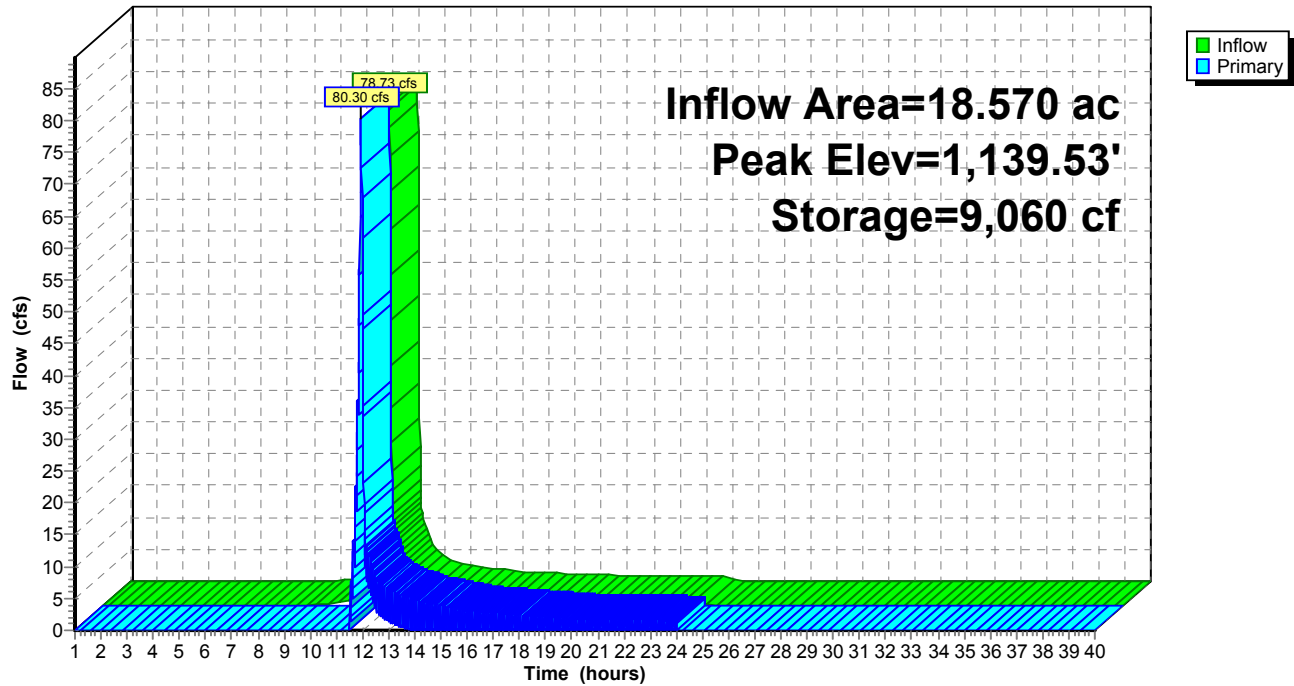
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,139.53' @ 11.96 hrs Surf.Area= 9,060 sf Storage= 9,060 cf
 Plug-Flow detention time= 45.2 min calculated for 3.211 af (94% of inflow)
 Center-of-Mass det. time= 11.6 min (837.9 - 826.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,107.00'	9,060 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,107.00	9,060	0	0
1,108.00	9,060	9,060	9,060

Device	Routing	Invert	Outlet Devices
#1	Primary	1,107.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 1.00 Width (feet) 1.00 5.00

Primary OutFlow Max=80.23 cfs @ 11.96 hrs HW=1,139.53' TW=1,109.89' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Orifice Controls 80.23 cfs @ 26.7 fps)

Pond 5P: (new Pond)**Hydrograph**

Pond A10P: A10P

Inflow Area = 9.300 ac, Inflow Depth = 1.47" for 10-yr event
 Inflow = 23.50 cfs @ 11.99 hrs, Volume= 1.136 af
 Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.62' @ 24.40 hrs Surf.Area= 63,092 sf Storage= 49,478 cf
 Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

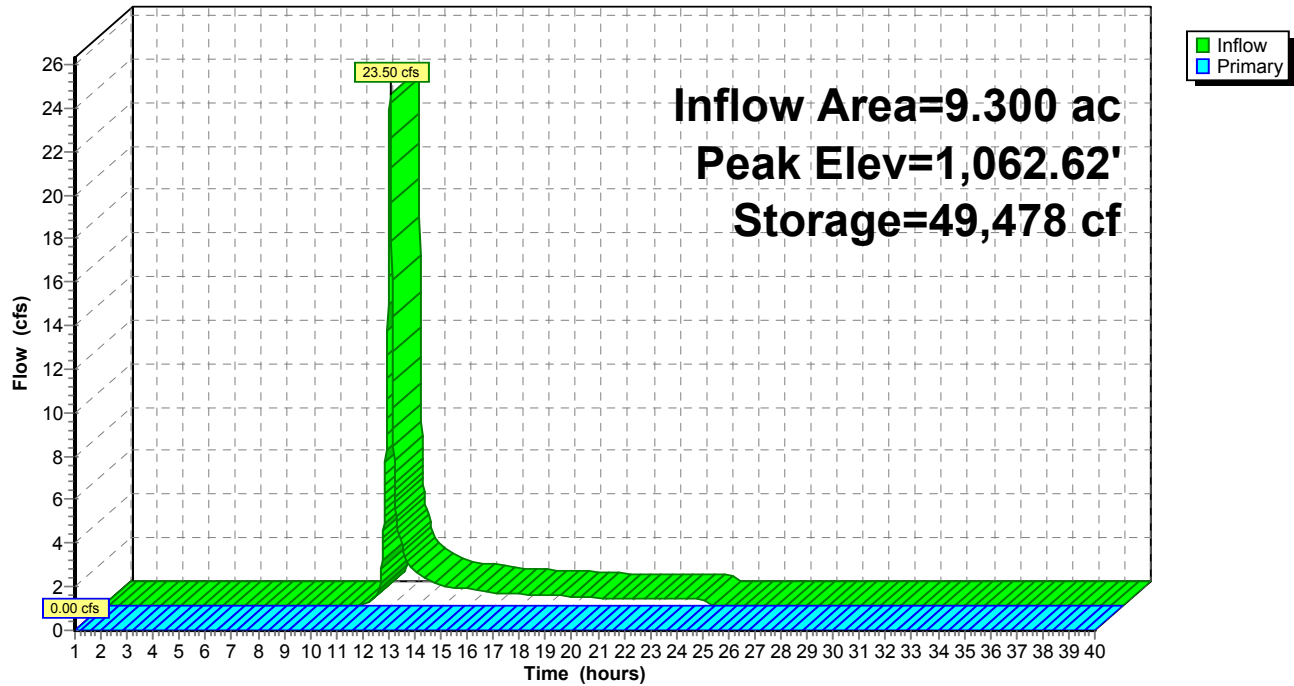
Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	640,000 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	60,000	0	0
1,070.00	100,000	640,000	640,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,070.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=1,062.00' TW=1,060.80' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond A10P: A10P**Hydrograph**

Pond A1P: WETLAND PONDS

Inflow Area = 36.474 ac, Inflow Depth = 1.33" for 10-yr event
 Inflow = 32.75 cfs @ 12.36 hrs, Volume= 4.053 af
 Outflow = 2.49 cfs @ 16.04 hrs, Volume= 3.067 af, Atten= 92%, Lag= 220.6 min
 Primary = 2.49 cfs @ 16.04 hrs, Volume= 3.067 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,093.56' @ 16.04 hrs Surf.Area= 94,022 sf Storage= 103,033 cf
 Plug-Flow detention time= 538.9 min calculated for 3.067 af (76% of inflow)
 Center-of-Mass det. time= 438.5 min (1,329.8 - 891.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,092.50'	243,750 cf	Custom Stage Data (Prismatic) Listed below

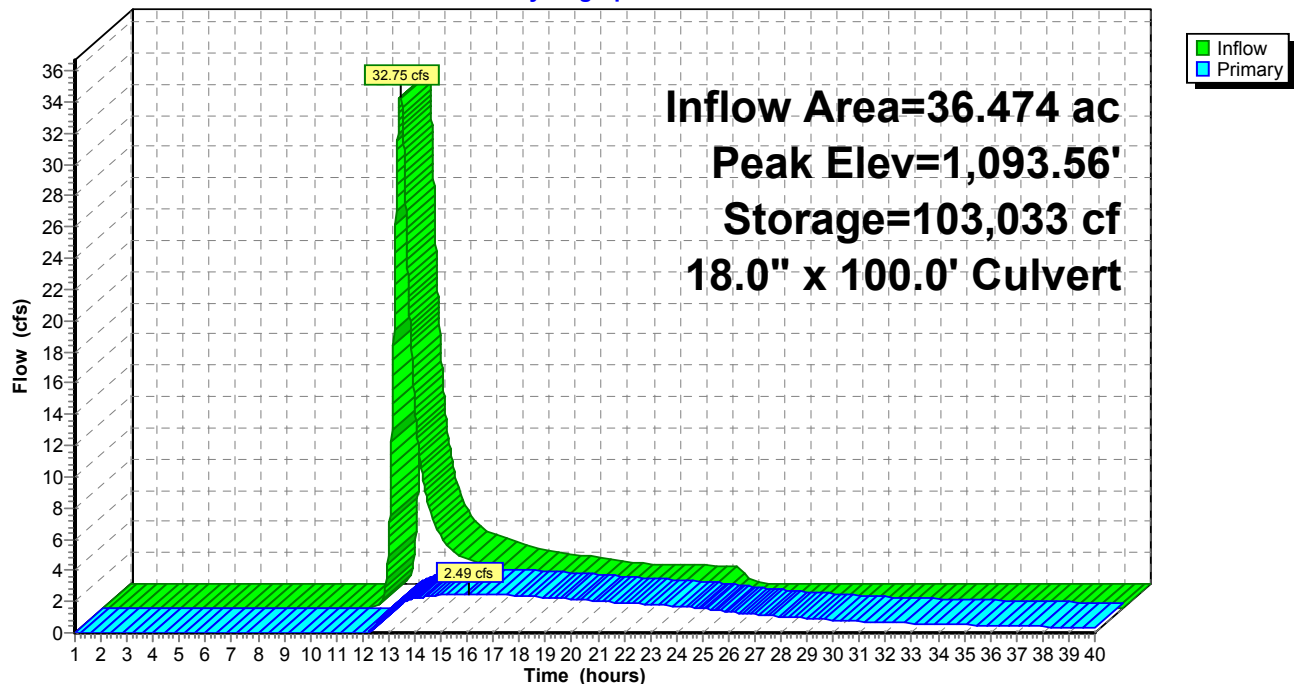
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,092.50	75,000	0	0
1,095.00	120,000	243,750	243,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,092.50'	18.0" x 100.0' long Culvert Ke= 0.700 Outlet Invert= 1,091.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=2.49 cfs @ 16.04 hrs HW=1,093.56' TW=1,092.74' (Dynamic Tailwater)
 ↑ **1=Culvert** (Outlet Controls 2.49 cfs @ 2.6 fps)

Pond A1P: WETLAND PONDS

Hydrograph



Pond A4P: A4P

Inflow Area = 34.000 ac, Inflow Depth = 1.53" for 10-yr event
 Inflow = 38.74 cfs @ 12.33 hrs, Volume= 4.345 af
 Outflow = 1.56 cfs @ 19.43 hrs, Volume= 2.557 af, Atten= 96%, Lag= 425.9 min
 Primary = 1.56 cfs @ 19.43 hrs, Volume= 2.557 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,084.72' @ 19.43 hrs Surf.Area= 174,370 sf Storage= 132,936 cf
 Plug-Flow detention time= 710.6 min calculated for 2.556 af (59% of inflow)
 Center-of-Mass det. time= 582.9 min (1,462.6 - 879.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,084.00'	368,635 cf	Custom Stage Data (Prismatic) Listed below

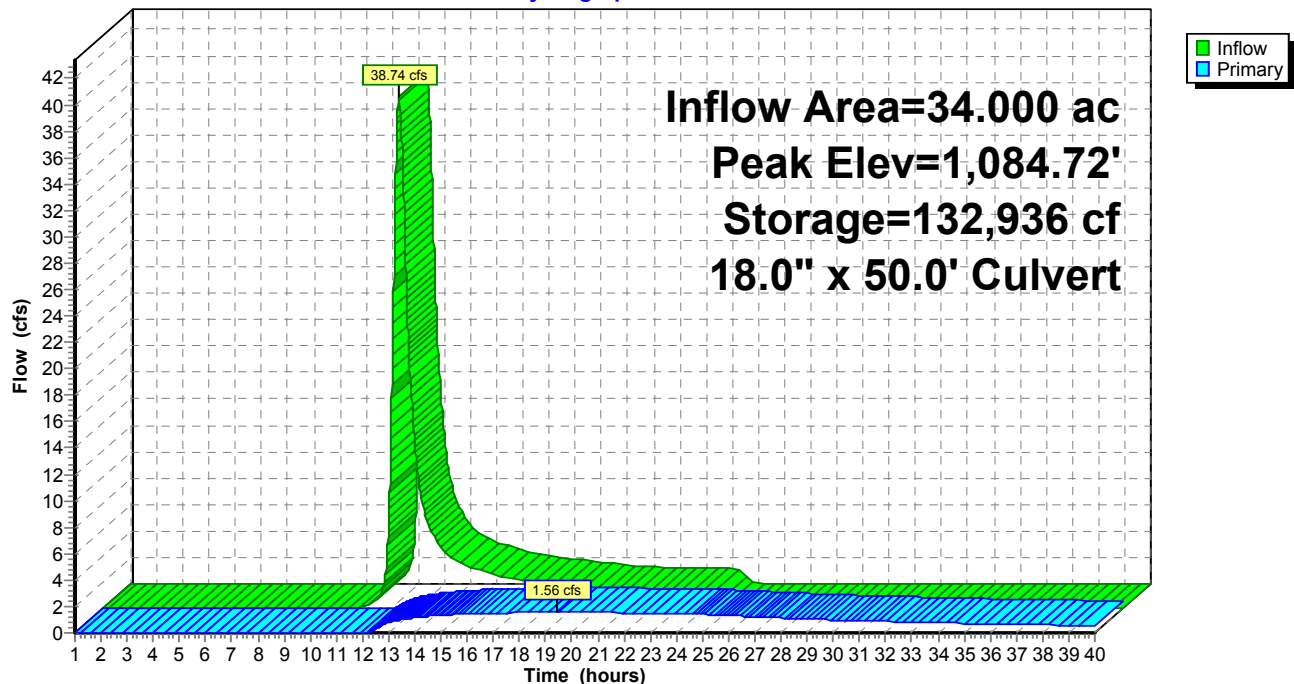
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,084.00	148,635	0	0
1,086.00	220,000	368,635	368,635

Device	Routing	Invert	Outlet Devices
#1	Primary	1,084.00'	18.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,083.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=1.56 cfs @ 19.43 hrs HW=1,084.72' TW=1,083.78' (Dynamic Tailwater)
 ↑**1=Culvert** (Barrel Controls 1.56 cfs @ 2.7 fps)

Pond A4P: A4P

Hydrograph



Pond B6P: WETPONDS

Inflow Area = 16.070 ac, Inflow Depth = 1.40" for 10-yr event
 Inflow = 35.32 cfs @ 12.01 hrs, Volume= 1.873 af
 Outflow = 1.00 cfs @ 11.80 hrs, Volume= 1.873 af, Atten= 97%, Lag= 0.0 min
 Discarded = 1.00 cfs @ 11.80 hrs, Volume= 1.873 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,061.18' @ 16.07 hrs Surf.Area= 37,813 sf Storage= 45,317 cf
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 501.5 min (1,362.8 - 861.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.00'	153,798 cf	Custom Stage Data (Prismatic) Listed below

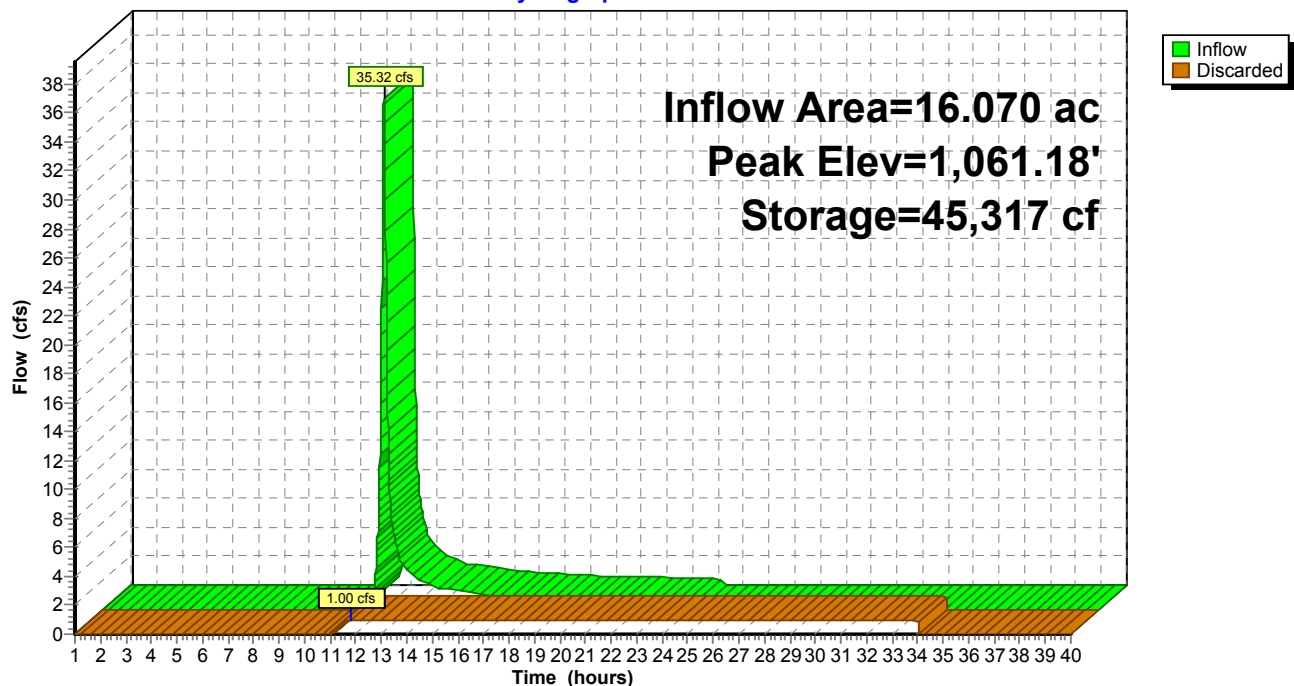
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,060.00	36,899	0	0
1,064.00	40,000	153,798	153,798

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	1.00 cfs Exfiltration at all elevations

Discarded OutFlow Max=1.00 cfs @ 11.80 hrs HW=1,060.04' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 1.00 cfs)

Pond B6P: WETPONDS

Hydrograph



Pond B7P: DRY POND

Inflow Area = 15.390 ac, Inflow Depth = 1.15" for 10-yr event
 Inflow = 11.90 cfs @ 12.35 hrs, Volume= 1.469 af
 Outflow = 6.18 cfs @ 12.74 hrs, Volume= 1.467 af, Atten= 48%, Lag= 23.5 min
 Primary = 6.18 cfs @ 12.74 hrs, Volume= 1.467 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.38' @ 12.74 hrs Surf.Area= 37,710 sf Storage= 15,386 cf
 Plug-Flow detention time= 66.8 min calculated for 1.467 af (100% of inflow)
 Center-of-Mass det. time= 66.0 min (964.3 - 898.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	81,000 cf	Custom Stage Data (Prismatic) Listed below

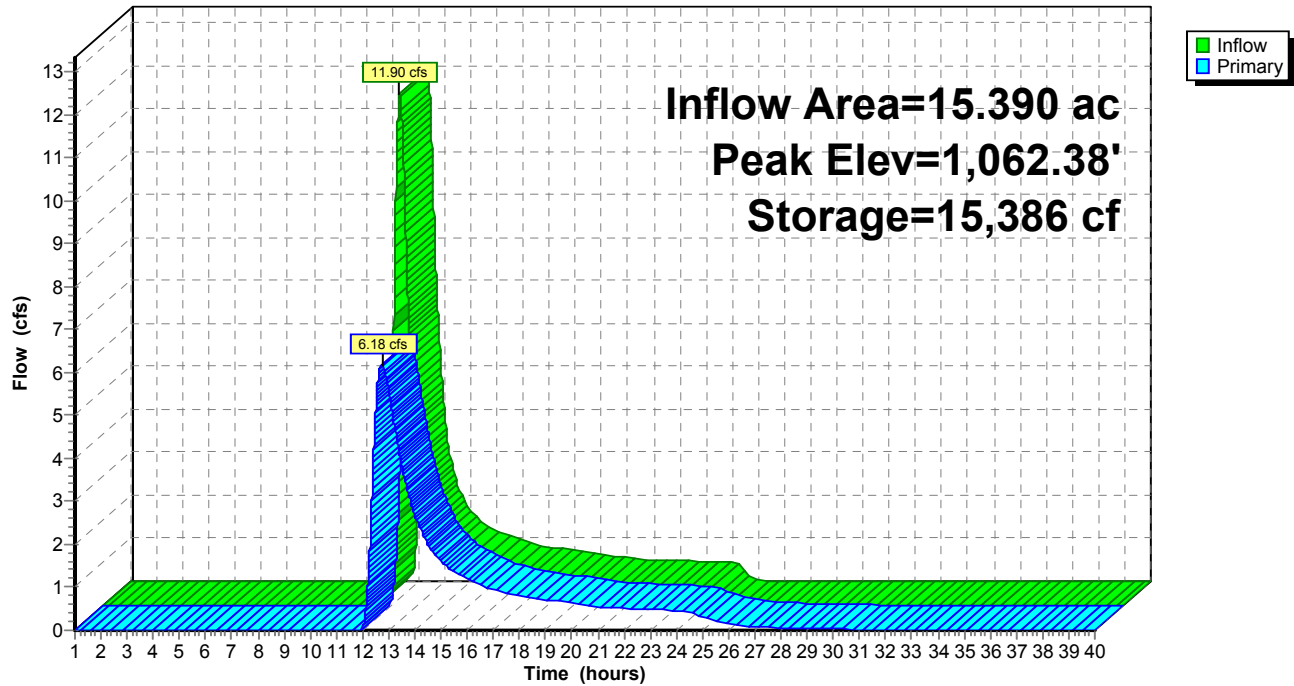
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	36,000	0	0
1,064.00	45,000	81,000	81,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=6.18 cfs @ 12.74 hrs HW=1,062.38' TW=1,060.86' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 6.18 cfs @ 1.6 fps)

Pond B7P: DRY POND

Hydrograph



Pond C4P: GOLF COURSE POND

Inflow Area = 20.070 ac, Inflow Depth = 1.15" for 10-yr event
 Inflow = 40.07 cfs @ 11.98 hrs, Volume= 1.916 af
 Outflow = 10.20 cfs @ 12.12 hrs, Volume= 1.913 af, Atten= 75%, Lag= 8.5 min
 Primary = 10.20 cfs @ 12.12 hrs, Volume= 1.913 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.41' @ 12.12 hrs Surf.Area= 62,898 sf Storage= 24,183 cf
 Plug-Flow detention time= 69.0 min calculated for 1.913 af (100% of inflow)
 Center-of-Mass det. time= 68.2 min (938.9 - 870.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,063.00'	147,275 cf	Custom Stage Data (Prismatic) Listed below

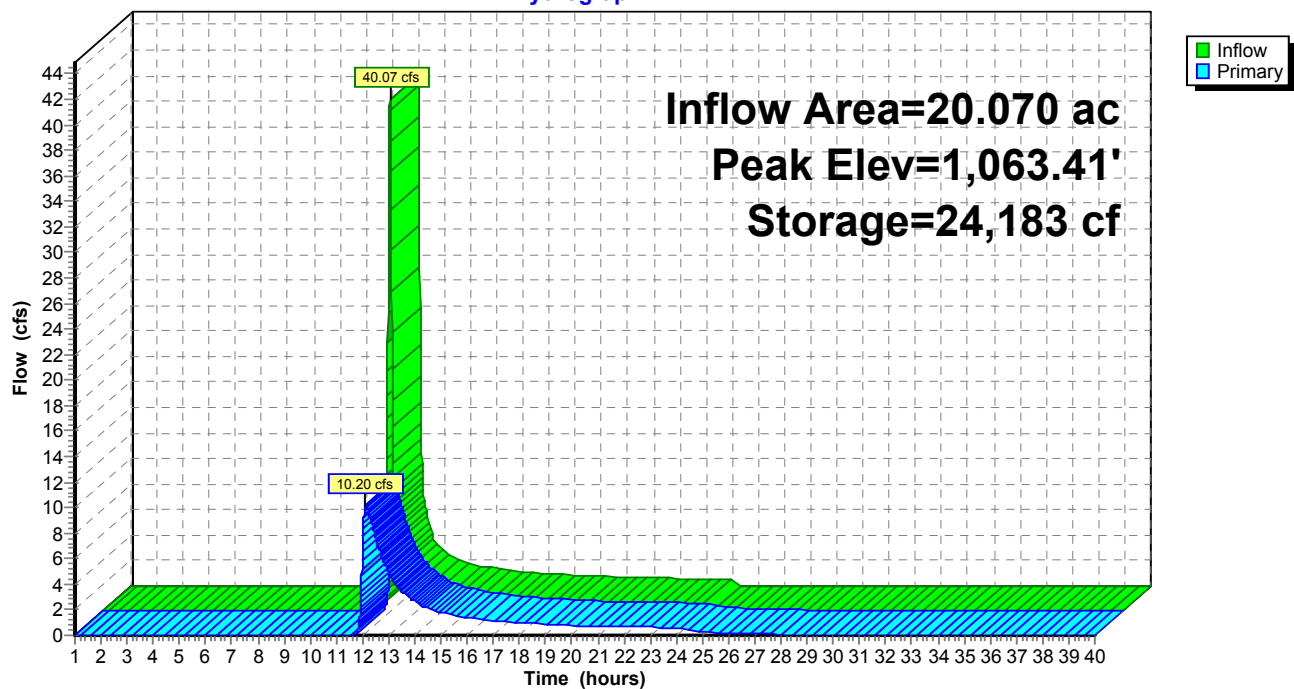
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,063.00	53,600	0	0
1,063.50	65,000	29,650	29,650
1,064.00	76,500	35,375	65,025
1,065.00	88,000	82,250	147,275

Device	Routing	Invert	Outlet Devices
#1	Primary	1,063.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=10.19 cfs @ 12.12 hrs HW=1,063.41' TW=1,059.82' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 10.19 cfs @ 1.7 fps)

Pond C4P: GOLF COURSE POND

Hydrograph



Pond C6P: GOLF COURSE POND

Inflow Area = 14.100 ac, Inflow Depth = 1.40" for 10-yr event
 Inflow = 36.01 cfs @ 11.97 hrs, Volume= 1.644 af
 Outflow = 2.23 cfs @ 12.99 hrs, Volume= 1.240 af, Atten= 94%, Lag= 61.3 min
 Primary = 2.23 cfs @ 12.99 hrs, Volume= 1.240 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,067.89' @ 12.99 hrs Surf.Area= 89,132 sf Storage= 33,547 cf
 Plug-Flow detention time= 299.5 min calculated for 1.240 af (75% of inflow)
 Center-of-Mass det. time= 199.0 min (1,056.9 - 857.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,067.50'	185,886 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,067.50	78,544	0	0
1,068.00	92,000	42,636	42,636
1,069.50	99,000	143,250	185,886

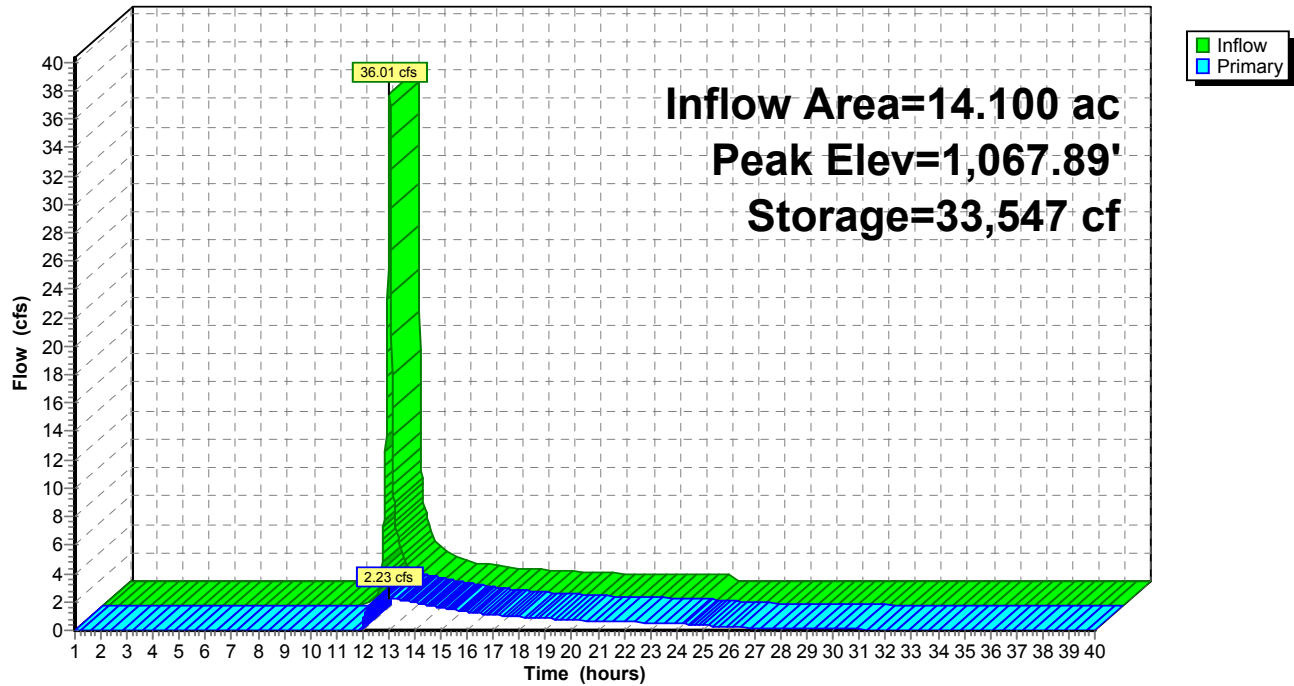
Device	Routing	Invert	Outlet Devices
#1	Primary	1,067.70'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=2.23 cfs @ 12.99 hrs HW=1,067.89' TW=1,059.88' (Dynamic Tailwater)

↑1=**Broad-Crested Rectangular Weir** (Weir Controls 2.23 cfs @ 1.2 fps)

Pond C6P: GOLF COURSE POND

Hydrograph



Pond C7P: (new node)

Inflow Area = 14.790 ac, Inflow Depth = 1.76" for 10-yr event
 Inflow = 48.96 cfs @ 11.95 hrs, Volume= 2.163 af
 Outflow = 0.37 cfs @ 24.04 hrs, Volume= 0.684 af, Atten= 99%, Lag= 725.5 min
 Primary = 0.37 cfs @ 24.04 hrs, Volume= 0.684 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.39' @ 24.04 hrs Surf.Area= 4.295 ac Storage= 1.867 af
 Plug-Flow detention time= 850.2 min calculated for 0.684 af (32% of inflow)
 Center-of-Mass det. time= 714.8 min (1,556.9 - 842.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	9.500 af	Custom Stage Data (Prismatic) Listed below

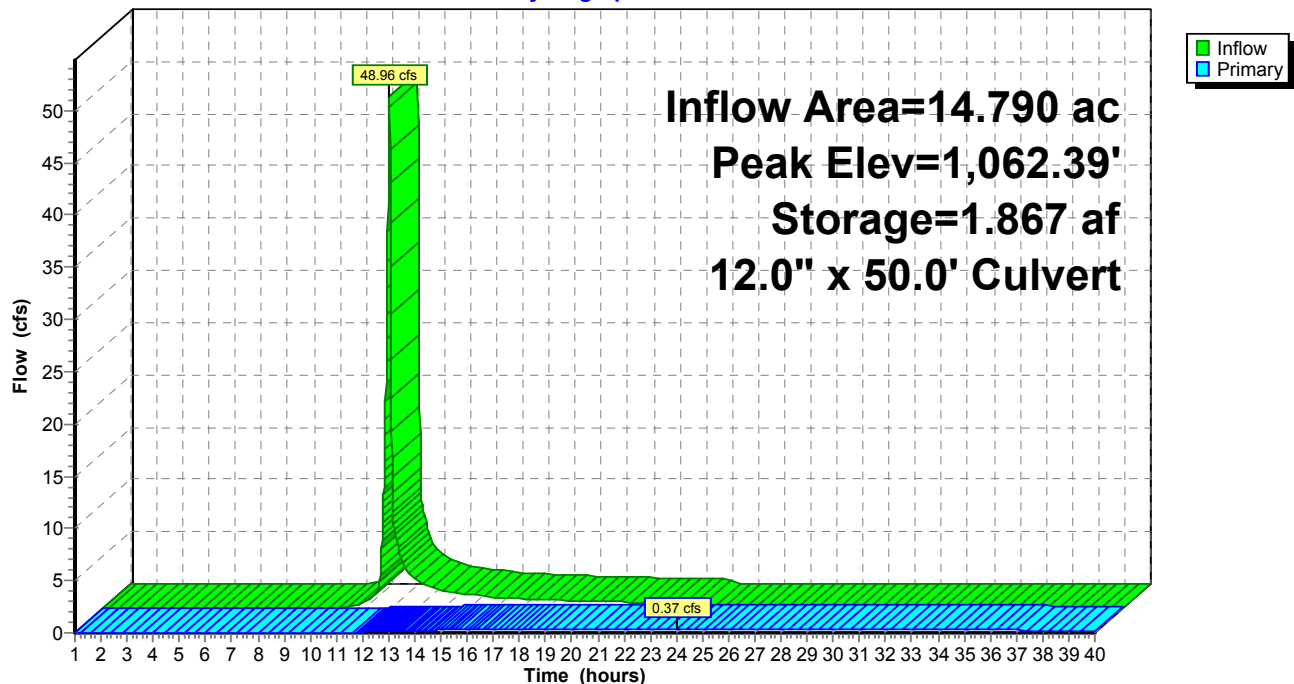
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,062.00	4.000	0.000	0.000
1,064.00	5.500	9.500	9.500

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	12.0" x 50.0' long Culvert Ke= 0.500 Outlet Invert= 1,061.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.37 cfs @ 24.04 hrs HW=1,062.39' TW=1,060.04' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.37 cfs @ 1.9 fps)

Pond C7P: (new node)

Hydrograph



Pond North Twin Lake: NORTH TWIN LAKE

Inflow Area = 570.115 ac, Inflow Depth > 0.63" for 10-yr event
 Inflow = 182.30 cfs @ 12.01 hrs, Volume= 29.911 af
 Outflow = 4.17 cfs @ 36.89 hrs, Volume= 9.681 af, Atten= 98%, Lag= 1,492.8 min
 Primary = 4.17 cfs @ 36.89 hrs, Volume= 9.681 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.94' @ 36.89 hrs Surf.Area= 142.764 ac Storage= 20.285 af
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 415.8 min (1,546.3 - 1,130.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	172.740 af	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	142.400	0.000	0.000
1,062.00	145.500	172.740	172.740

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	30.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.60' S= 0.0040 '/' Cc= 0.900 n= 0.024
#2	Primary	1,062.80'	100.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

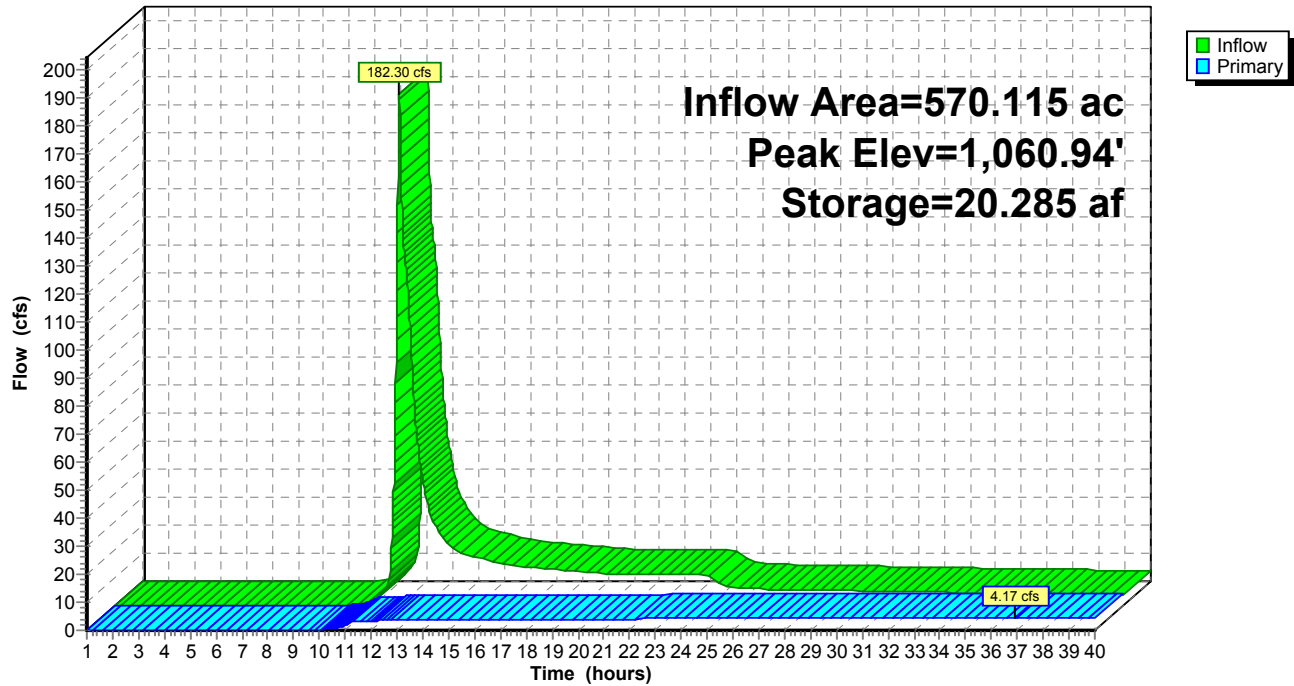
Primary OutFlow Max=4.17 cfs @ 36.89 hrs HW=1,060.94' TW=1,060.10' (Dynamic Tailwater)

1=Culvert (Barrel Controls 4.17 cfs @ 2.8 fps)

2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond North Twin Lake: NORTH TWIN LAKE

Hydrograph



Pond PIKE: PIKE LAKE

Inflow Area = 400.735 ac, Inflow Depth > 1.12" for 10-yr event
 Inflow = 347.88 cfs @ 12.04 hrs, Volume= 37.367 af
 Outflow = 6.03 cfs @ 24.18 hrs, Volume= 10.895 af, Atten= 98%, Lag= 728.8 min
 Primary = 6.03 cfs @ 24.18 hrs, Volume= 10.895 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.97' @ 24.41 hrs Surf.Area= 169.757 ac Storage= 29.259 af
 Plug-Flow detention time= 858.7 min calculated for 10.892 af (29% of inflow)
 Center-of-Mass det. time= 583.7 min (1,580.5 - 996.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	205.080 af	Custom Stage Data (Prismatic) Listed below

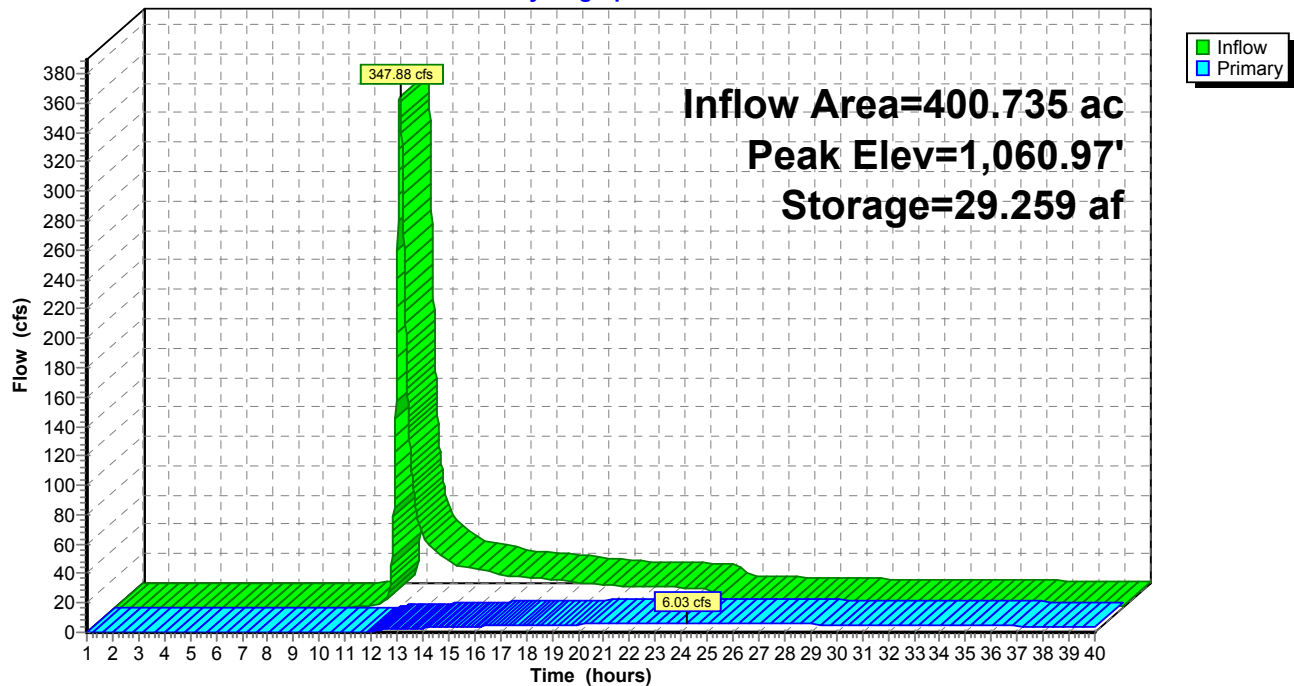
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	169.300	0.000	0.000
1,062.00	172.500	205.080	205.080

Device	Routing	Invert	Outlet Devices
#1	Primary	1,060.80'	50.0' long x 1.2' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.66 2.69 2.71 2.78 2.89 2.99 3.09 3.20 3.21 3.19 3.30 3.32

Primary OutFlow Max=6.03 cfs @ 24.18 hrs HW=1,060.97' TW=1,060.93' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 6.03 cfs @ 0.7 fps)

Pond PIKE: PIKE LAKE

Hydrograph



Pond South Twin Lake: SOUTH TWIN LAKE

Inflow Area = 693.705 ac, Inflow Depth > 0.45" for 10-yr event
 Inflow = 76.19 cfs @ 12.13 hrs, Volume= 26.060 af
 Outflow = 0.37 cfs @ 40.00 hrs, Volume= 0.508 af, Atten= 100%, Lag= 1,672.0 min
 Primary = 0.37 cfs @ 40.00 hrs, Volume= 0.508 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.12' @ 40.00 hrs Surf.Area= 76.878 ac Storage= 25.551 af
 Plug-Flow detention time= 1,124.8 min calculated for 0.508 af (2% of inflow)
 Center-of-Mass det. time= 624.9 min (1,785.5 - 1,160.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,059.80'	321.440 af	Custom Stage Data (Prismatic) Listed below

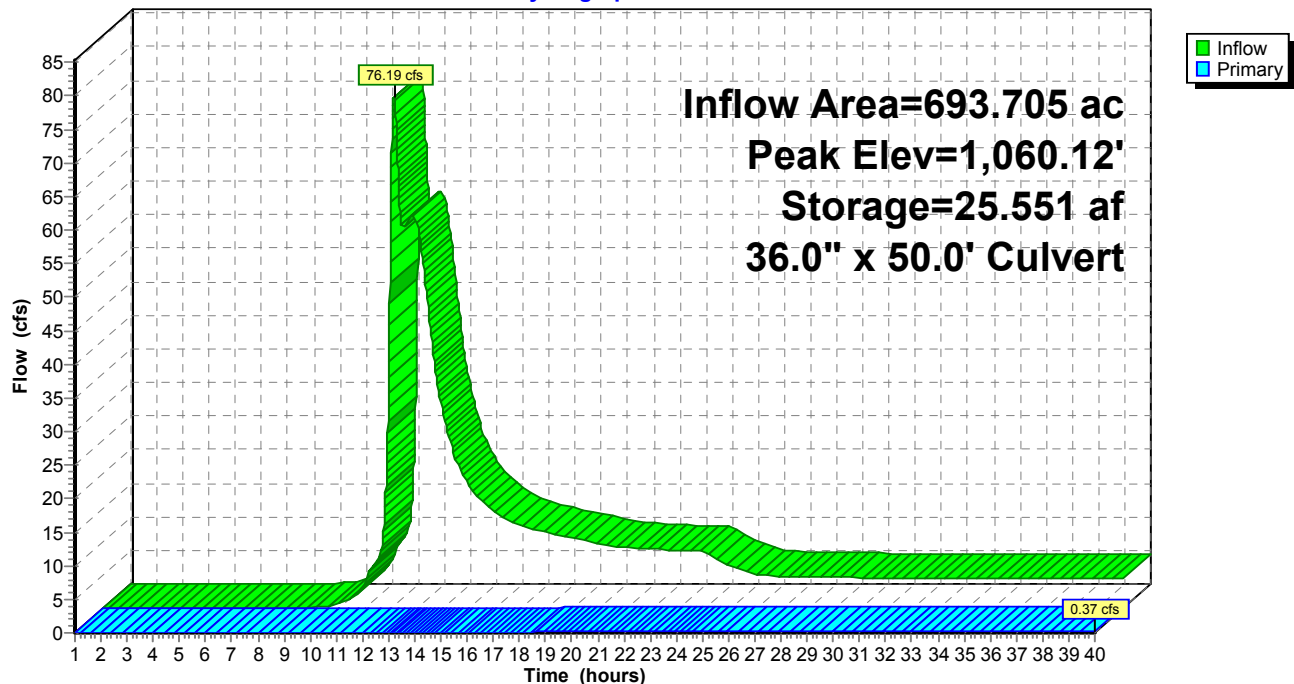
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,059.80	76.220	0.000	0.000
1,063.80	84.500	321.440	321.440

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	36.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.50' S= 0.0060 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.37 cfs @ 40.00 hrs HW=1,060.12' TW=0.00' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.37 cfs @ 1.4 fps)

Pond South Twin Lake: SOUTH TWIN LAKE

Hydrograph



Subcatchment A1: A1

Runoff = 42.11 cfs @ 12.35 hrs, Volume= 5.061 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

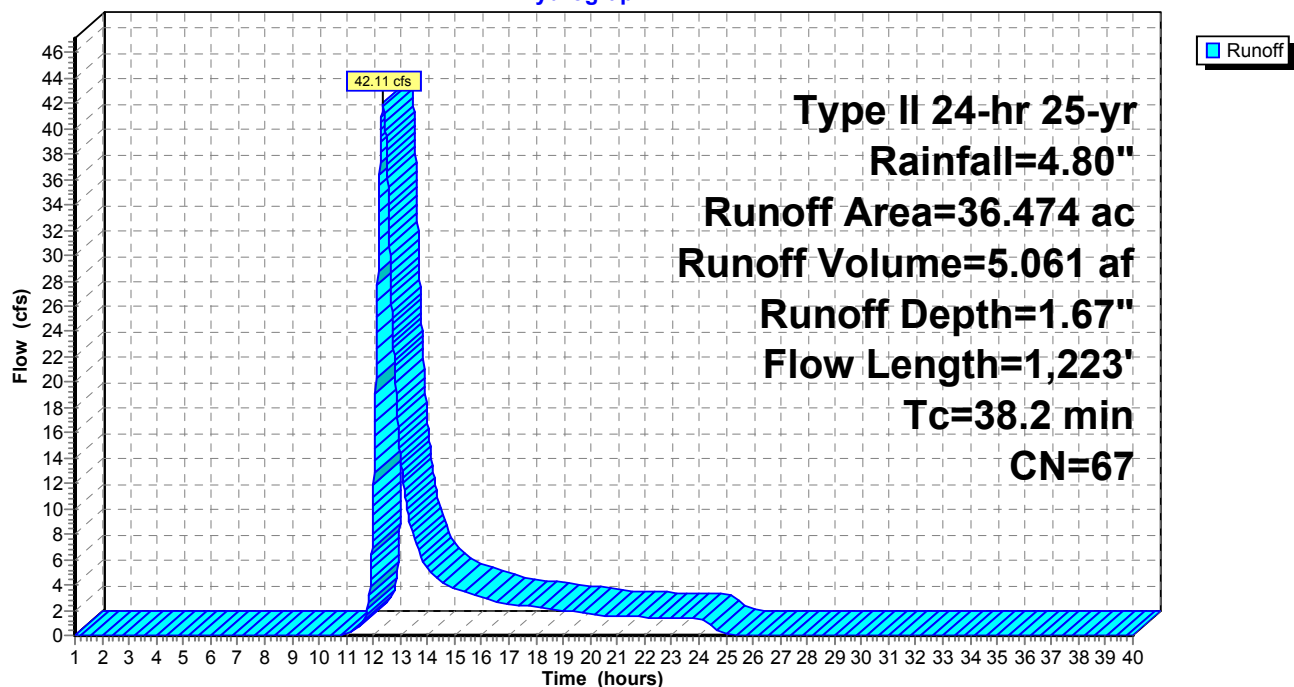
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
36.474	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	1,223	0.0200	0.5		Lag/CN Method,

Subcatchment A1: A1

Hydrograph



Subcatchment A10: A10

Runoff = 29.25 cfs @ 11.99 hrs, Volume= 1.405 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

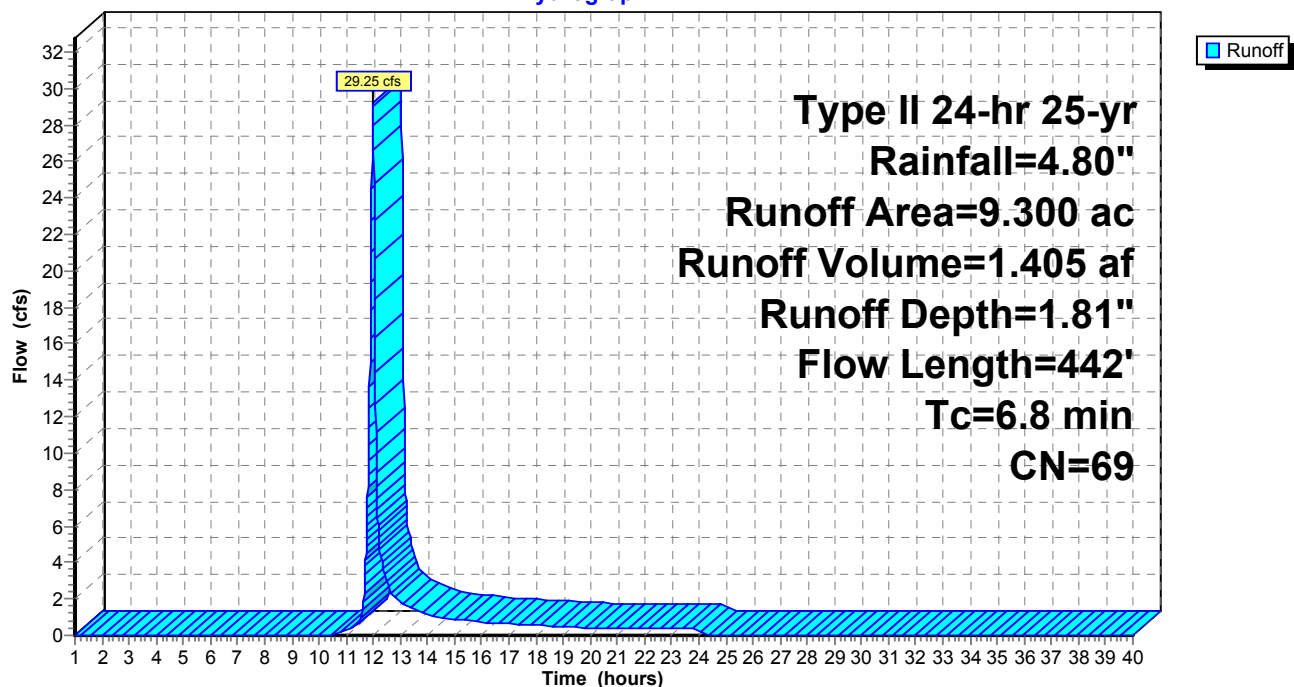
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.300	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	442	0.1100	1.1		Lag/CN Method,

Subcatchment A10: A10

Hydrograph



Subcatchment A11: A11

Runoff = 54.99 cfs @ 12.04 hrs, Volume= 3.216 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

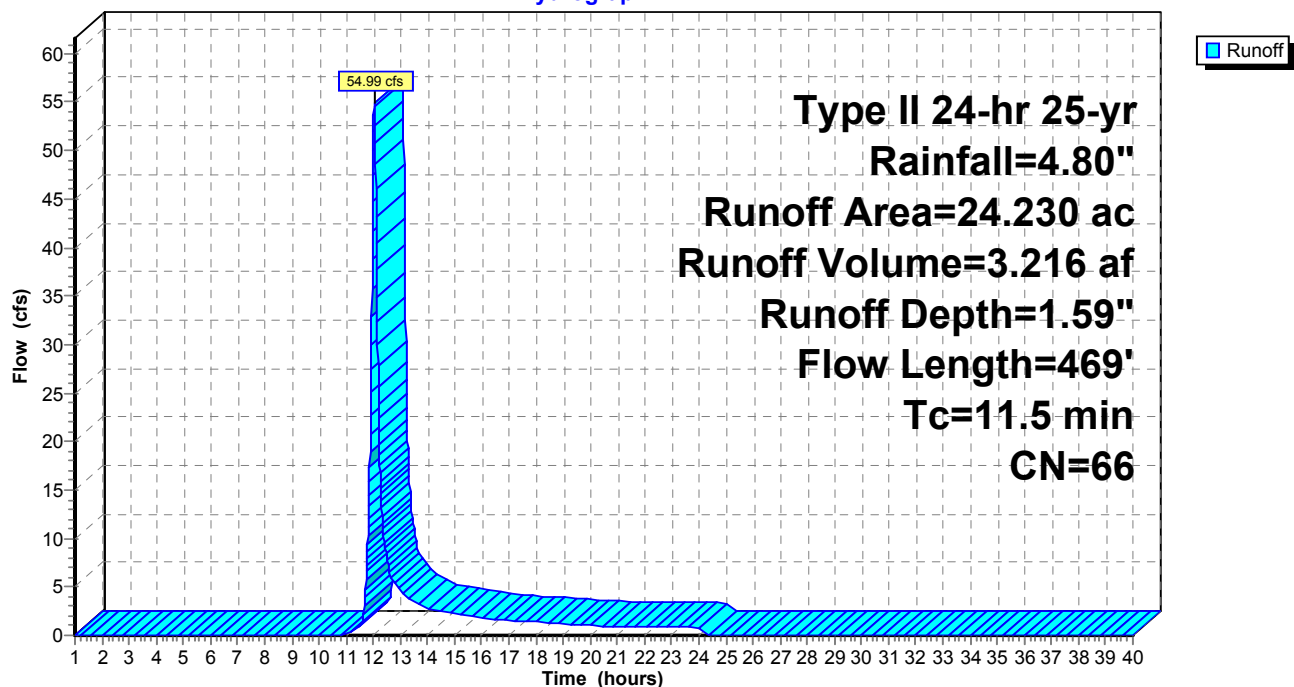
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
24.230	66	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	469	0.0500	0.7		Lag/CN Method,

Subcatchment A11: A11

Hydrograph



Subcatchment A12: A12

Runoff = 33.20 cfs @ 12.11 hrs, Volume= 2.487 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

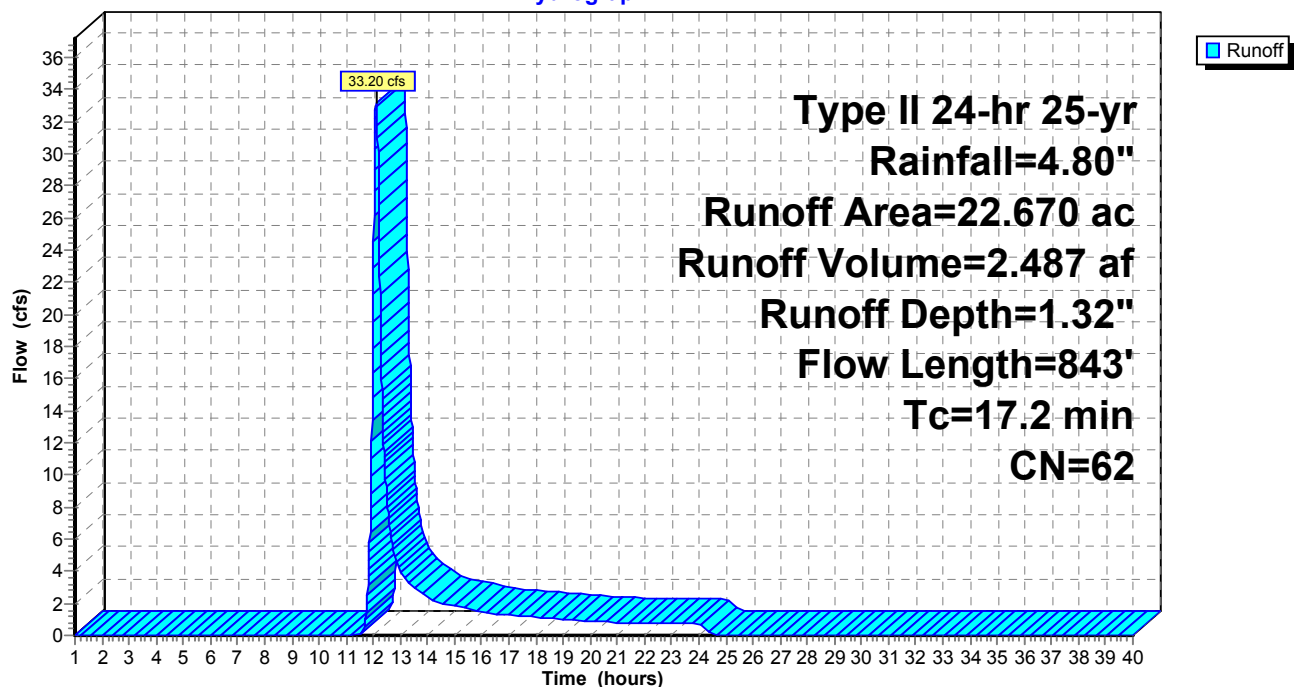
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
22.670	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	843	0.0700	0.8		Lag/CN Method,

Subcatchment A12: A12

Hydrograph



Subcatchment A13: A13

Runoff = 29.64 cfs @ 12.18 hrs, Volume= 2.737 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

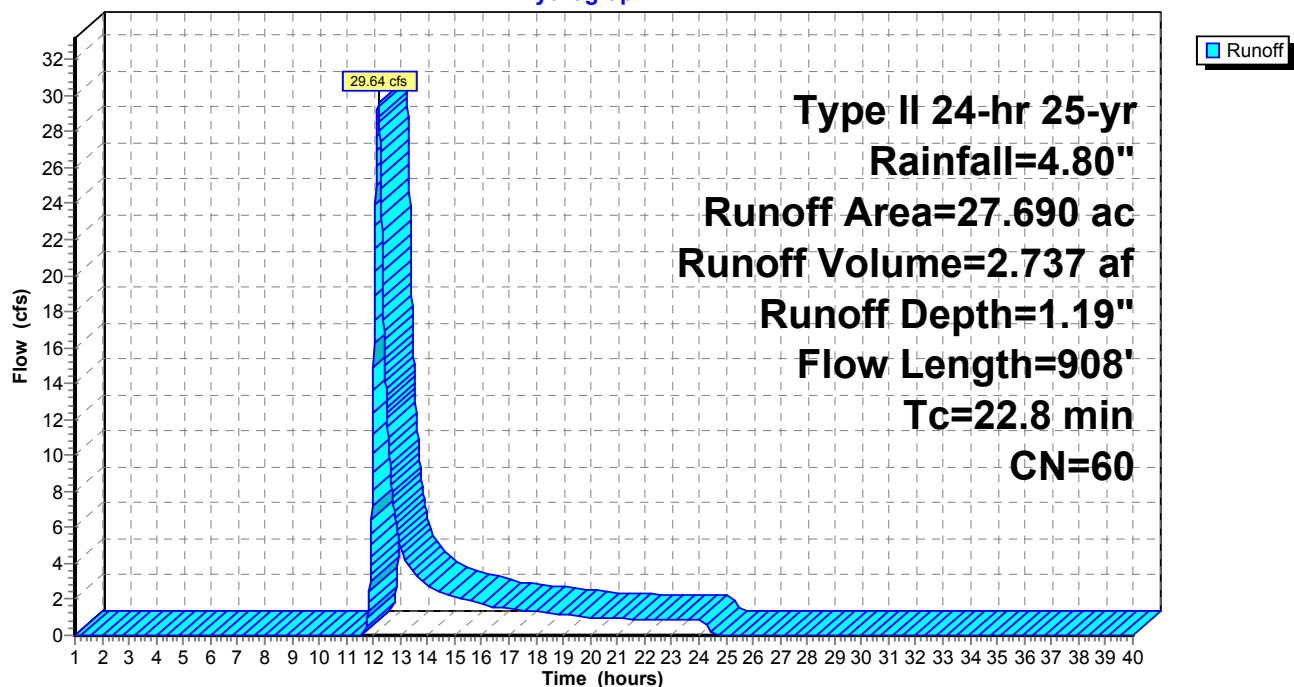
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
27.690	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	908	0.0500	0.7		Lag/CN Method,

Subcatchment A13: A13

Hydrograph



Subcatchment A2: A2

Runoff = 89.36 cfs @ 12.08 hrs, Volume= 5.896 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

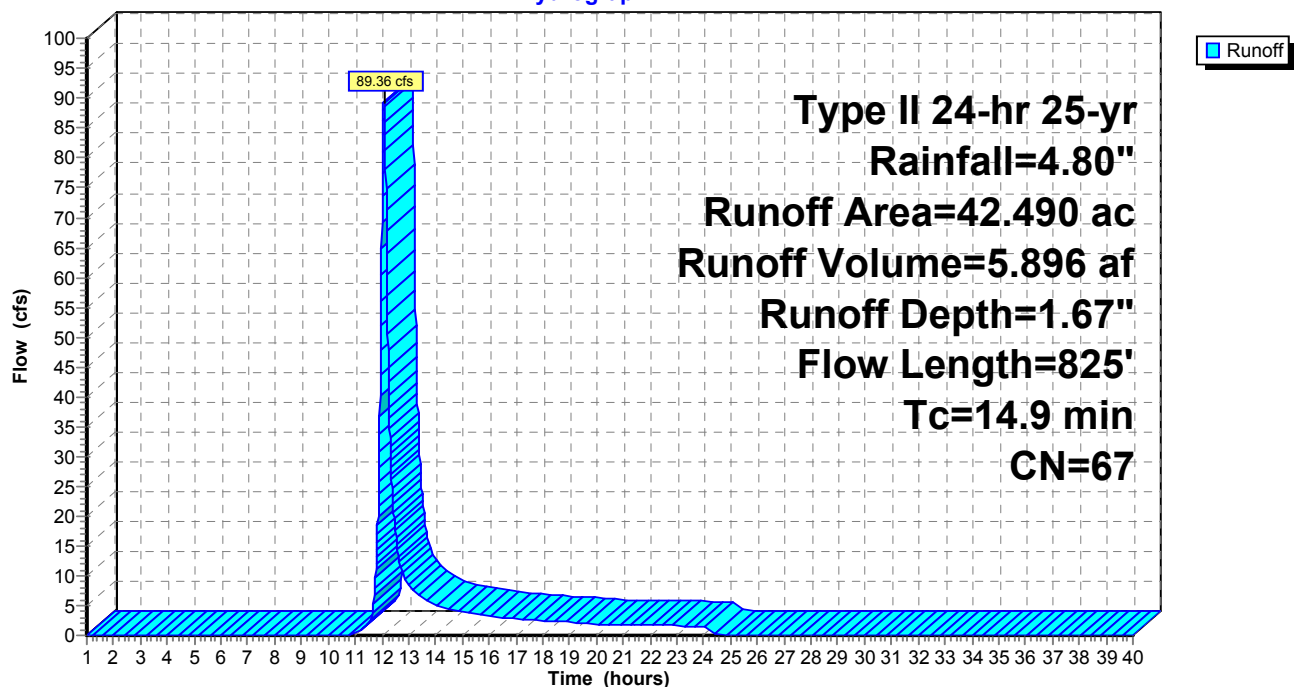
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
42.490	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	825	0.0700	0.9		Lag/CN Method,

Subcatchment A2: A2

Hydrograph



Subcatchment A3: A3

Runoff = 62.51 cfs @ 12.13 hrs, Volume= 4.704 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

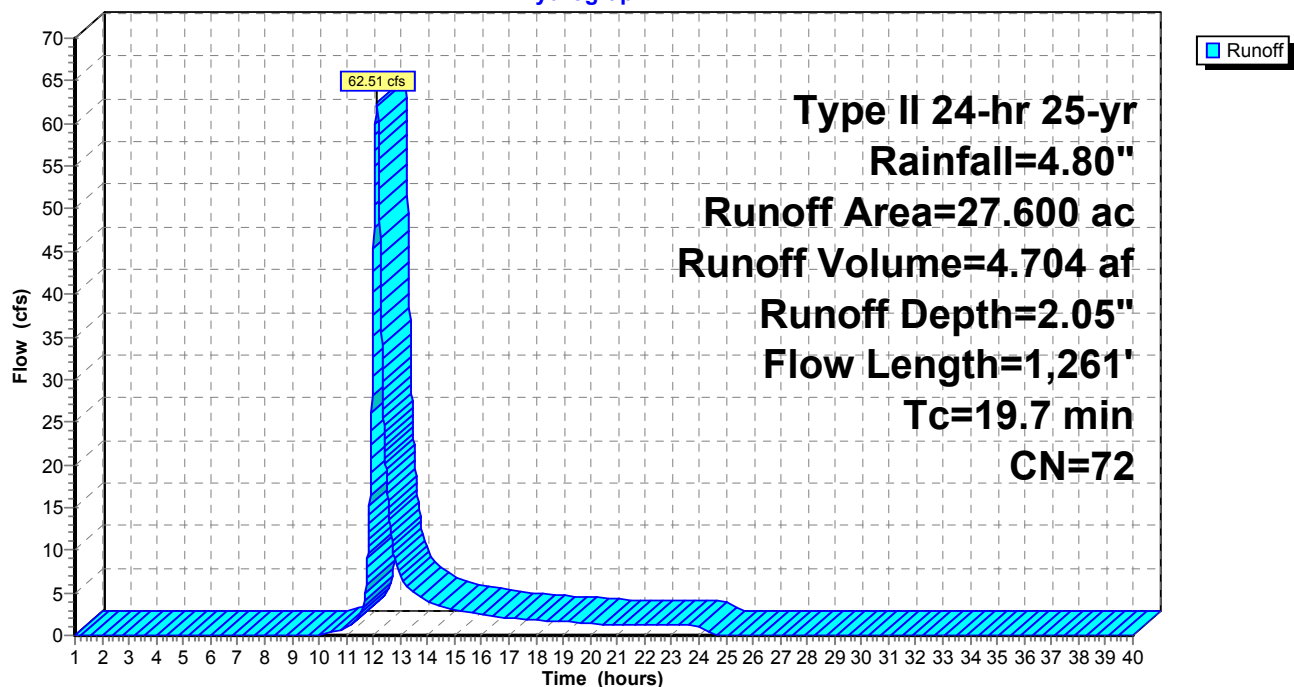
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
27.600	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	1,261	0.0600	1.1		Lag/CN Method,

Subcatchment A3: A3

Hydrograph



Subcatchment A4: A4

Runoff = 48.58 cfs @ 12.33 hrs, Volume= 5.353 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

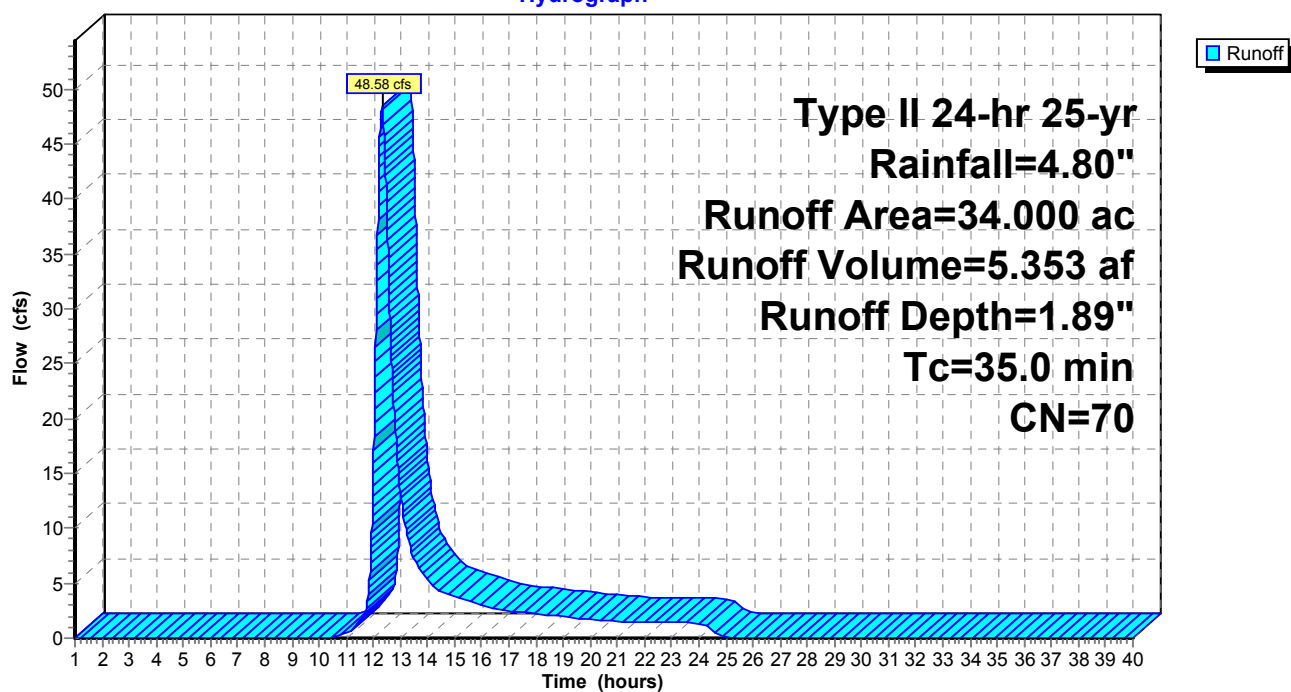
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.000	100	WATER
19.000	60	Woods, Fair, HSG B
10.000	74	Row crops, C + CR, Good, HSG B
34.000	70	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.0					Direct Entry,

Subcatchment A4: A4

Hydrograph



Subcatchment A5: A5

Runoff = 50.39 cfs @ 12.06 hrs, Volume= 3.114 af, Depth= 2.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

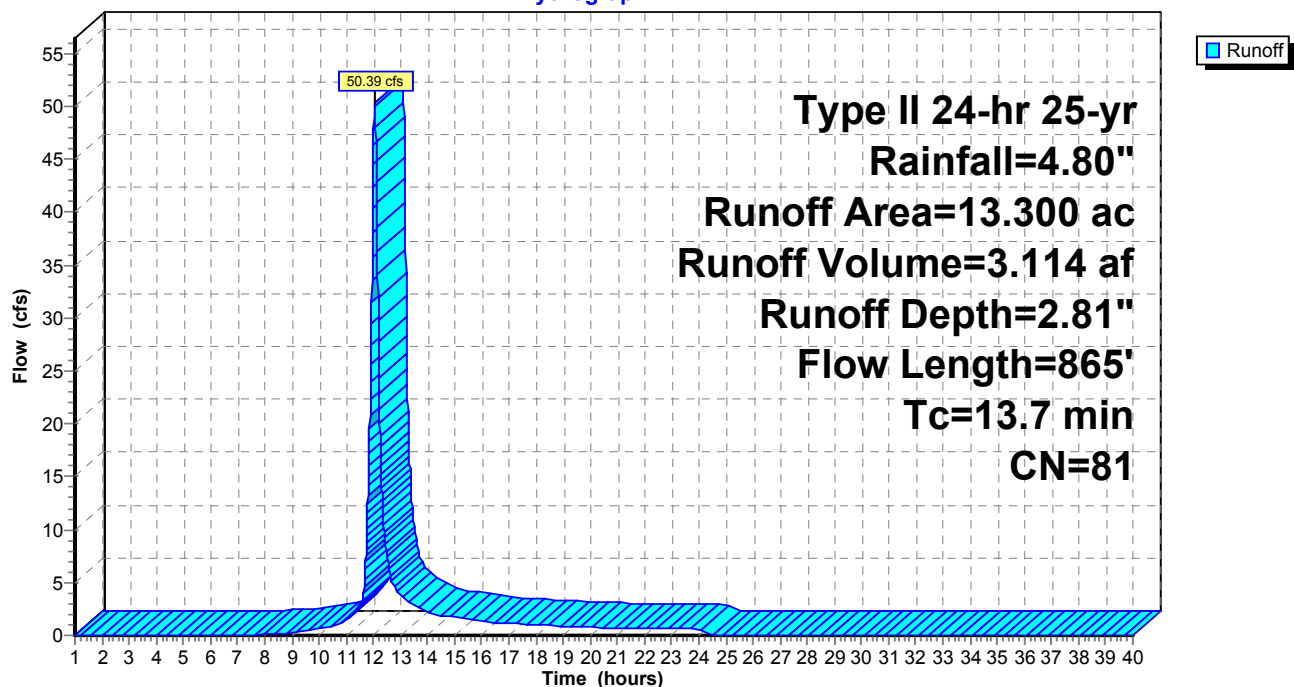
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
13.300	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	865	0.0400	1.1		Lag/CN Method,

Subcatchment A5: A5

Hydrograph



Subcatchment A6: A6

Runoff = 32.05 cfs @ 12.14 hrs, Volume= 2.517 af, Depth= 1.74"

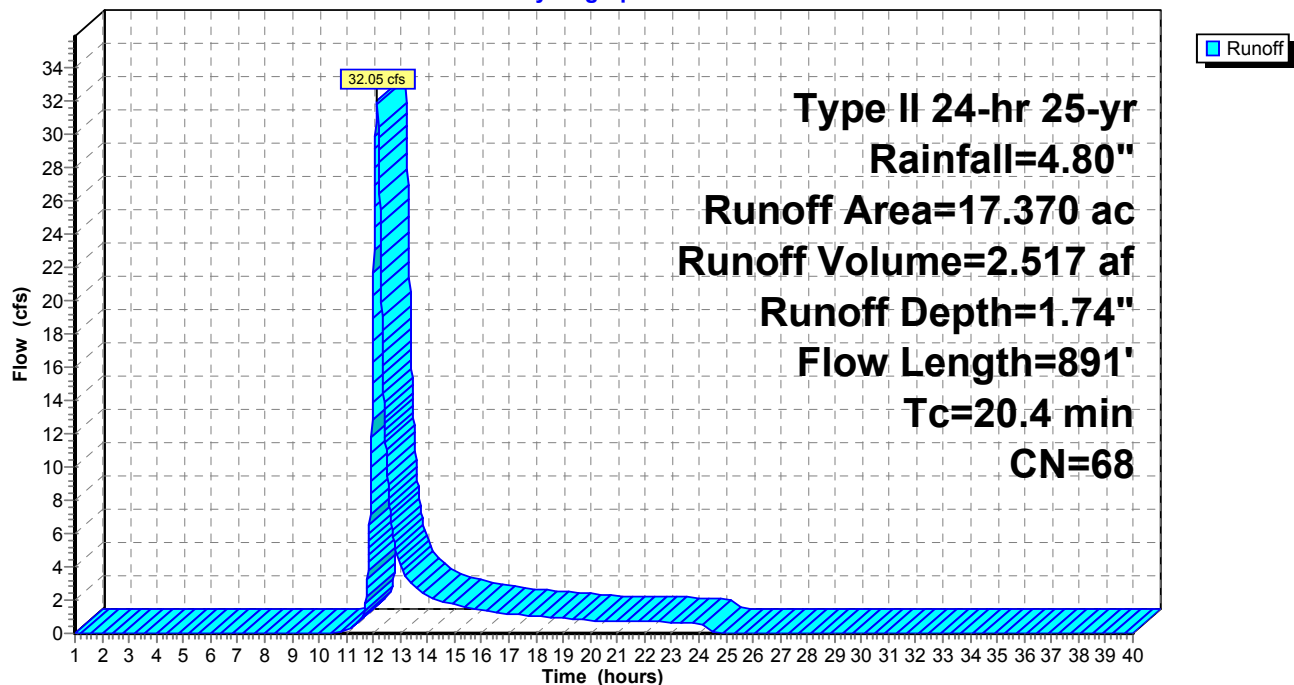
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
17.370	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	891	0.0400	0.7		Lag/CN Method,

Subcatchment A6: A6

Hydrograph



Subcatchment A7: A7

Runoff = 13.22 cfs @ 12.22 hrs, Volume= 1.434 af, Depth= 0.94"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

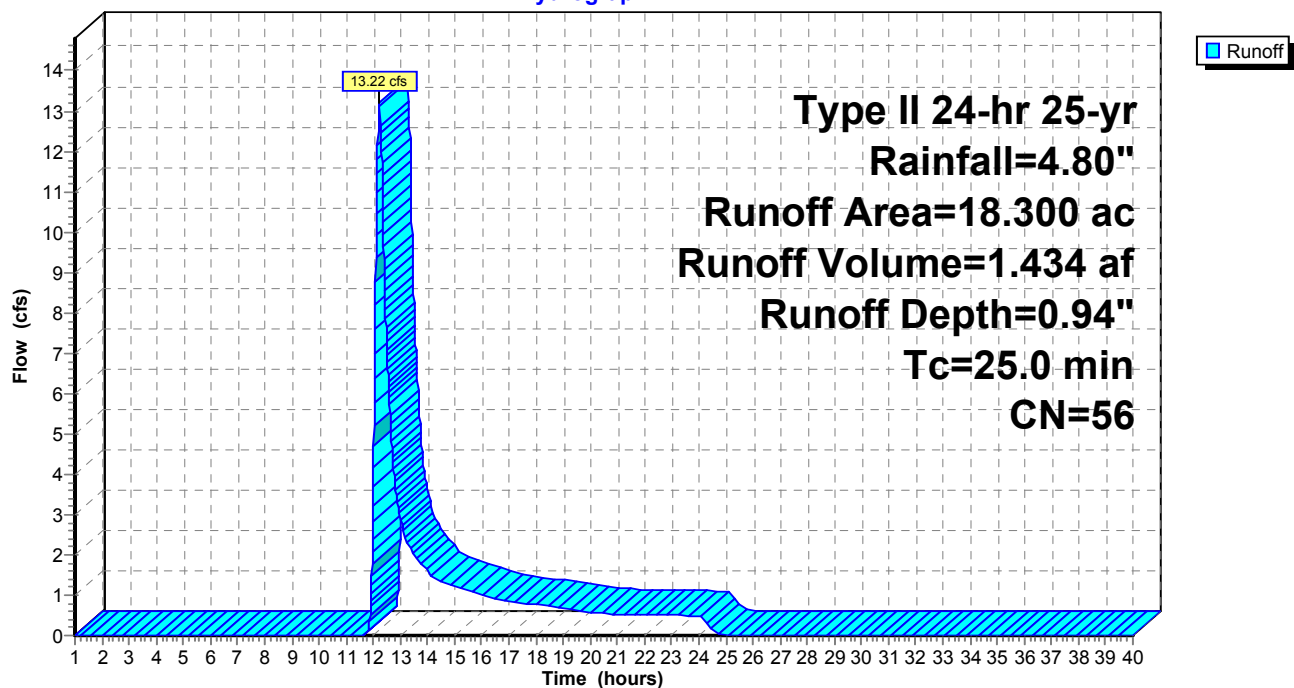
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
1.000	100	WATER
3.000	70	FARM
7.300	64	Row crops, C + CR, Good, HSG A
7.000	36	Woods, Fair, HSG A
18.300	56	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.0					Direct Entry,

Subcatchment A7: A7

Hydrograph



Subcatchment A9: A9

Runoff = 28.67 cfs @ 12.04 hrs, Volume= 1.755 af, Depth= 1.00"

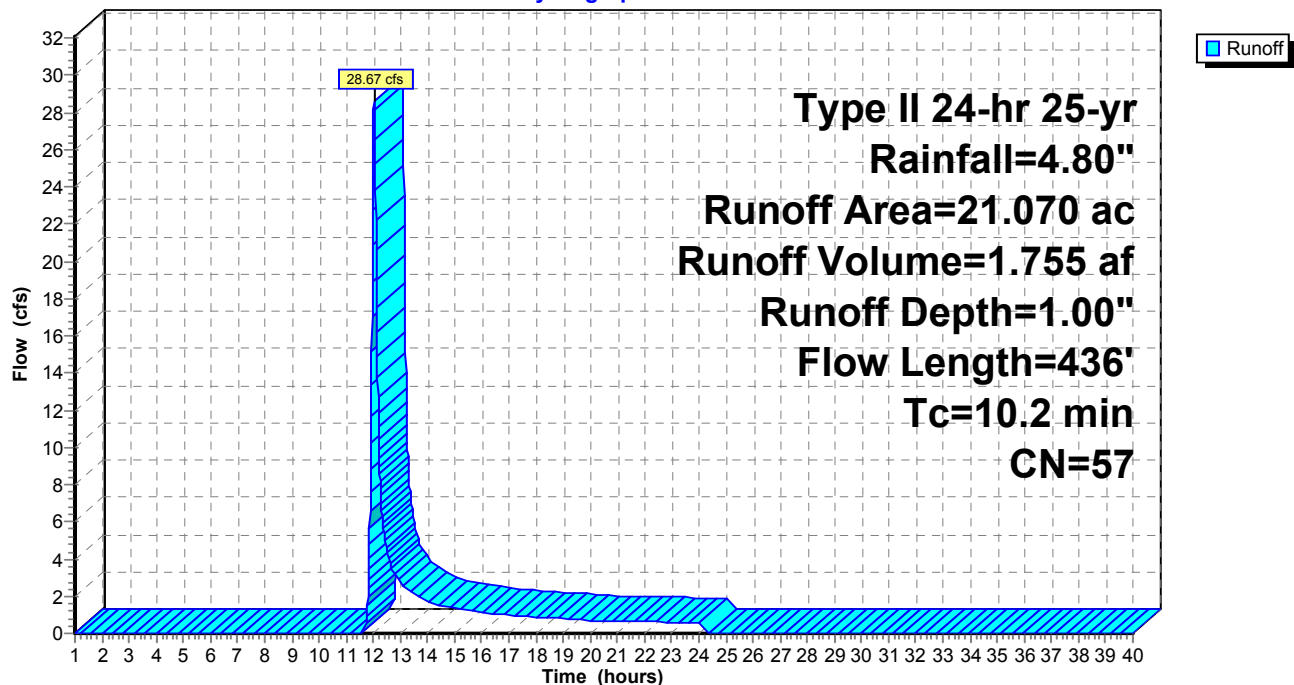
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
21.070	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	436	0.0900	0.7		Lag/CN Method,

Subcatchment A9: A9

Hydrograph



Subcatchment B1: B1

Runoff = 60.13 cfs @ 12.26 hrs, Volume= 6.120 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

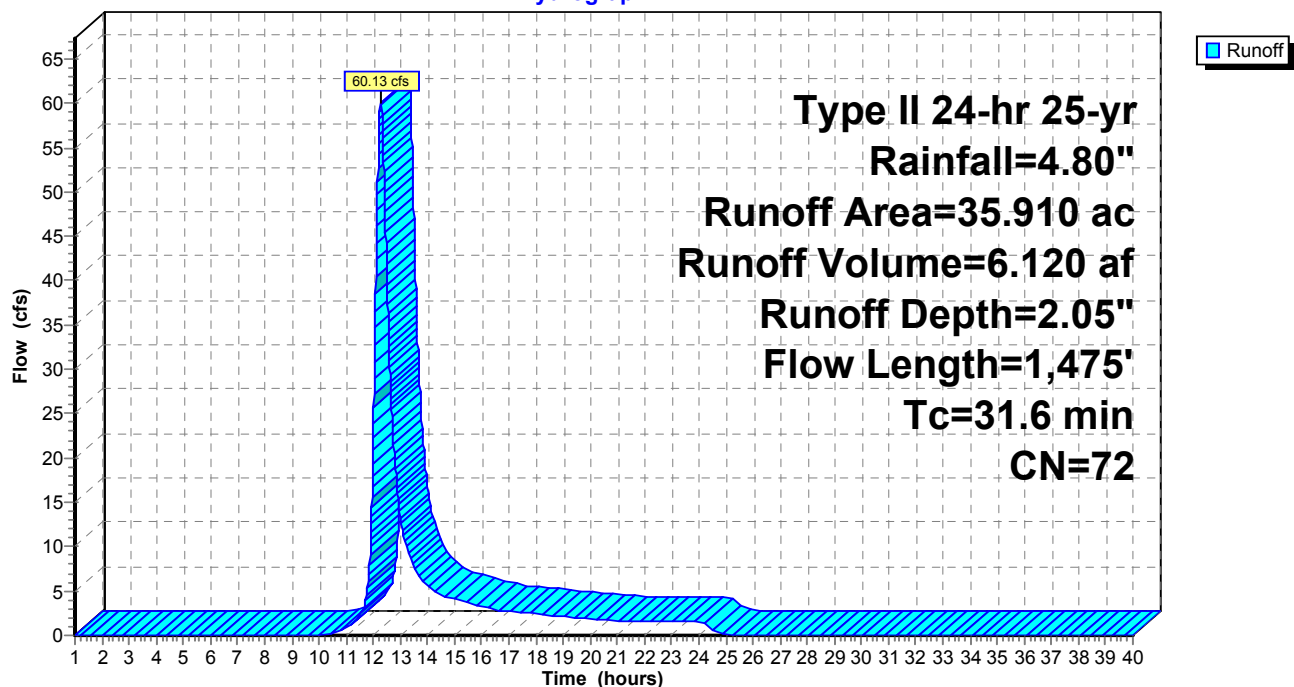
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
35.910	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.6	1,475	0.0300	0.8		Lag/CN Method,

Subcatchment B1: B1

Hydrograph



Subcatchment B10: B10

Runoff = 23.06 cfs @ 11.96 hrs, Volume= 1.028 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

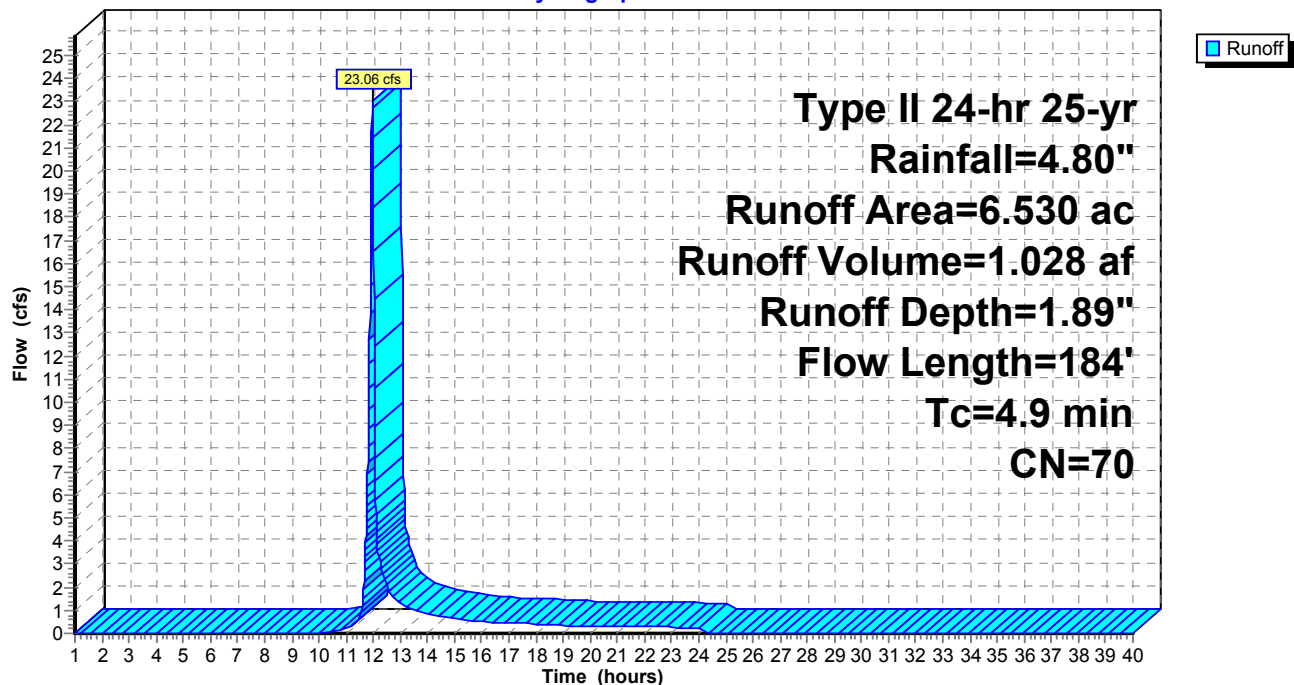
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
6.530	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	184	0.0500	0.6		Lag/CN Method,

Subcatchment B10: B10

Hydrograph



Subcatchment B11: B11

Runoff = 16.68 cfs @ 12.36 hrs, Volume= 1.929 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

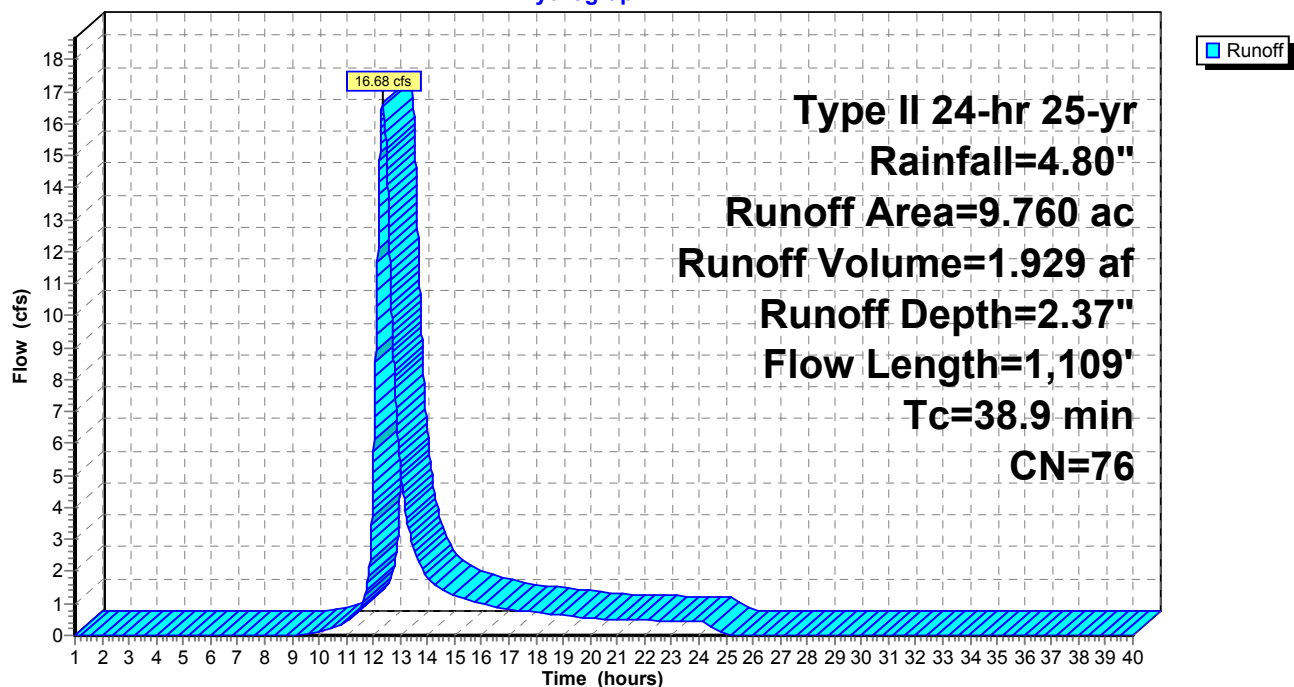
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.760	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.9	1,109	0.0100	0.5		Lag/CN Method,

Subcatchment B11: B11

Hydrograph



Subcatchment B12: B12

Runoff = 16.43 cfs @ 11.99 hrs, Volume= 0.838 af, Depth= 3.18"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

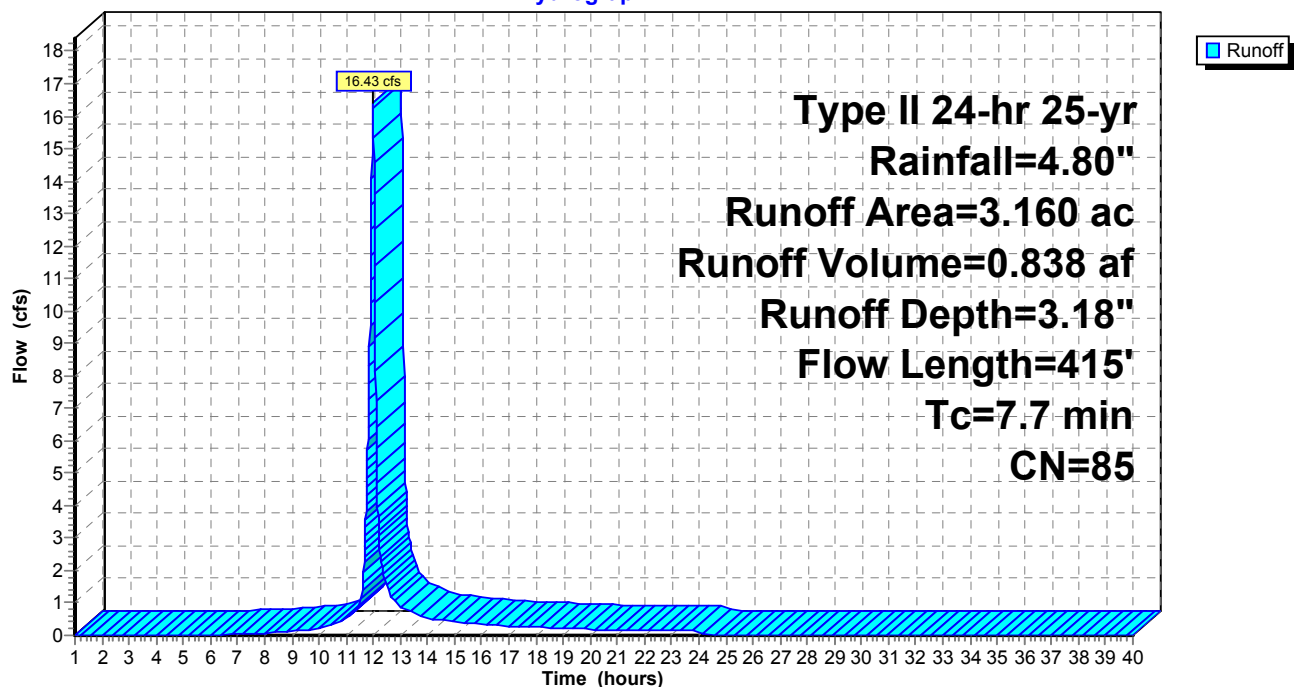
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
3.160	85	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	415	0.0300	0.9		Lag/CN Method,

Subcatchment B12: B12

Hydrograph



Subcatchment B13: B13

Runoff = 25.54 cfs @ 12.00 hrs, Volume= 1.295 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

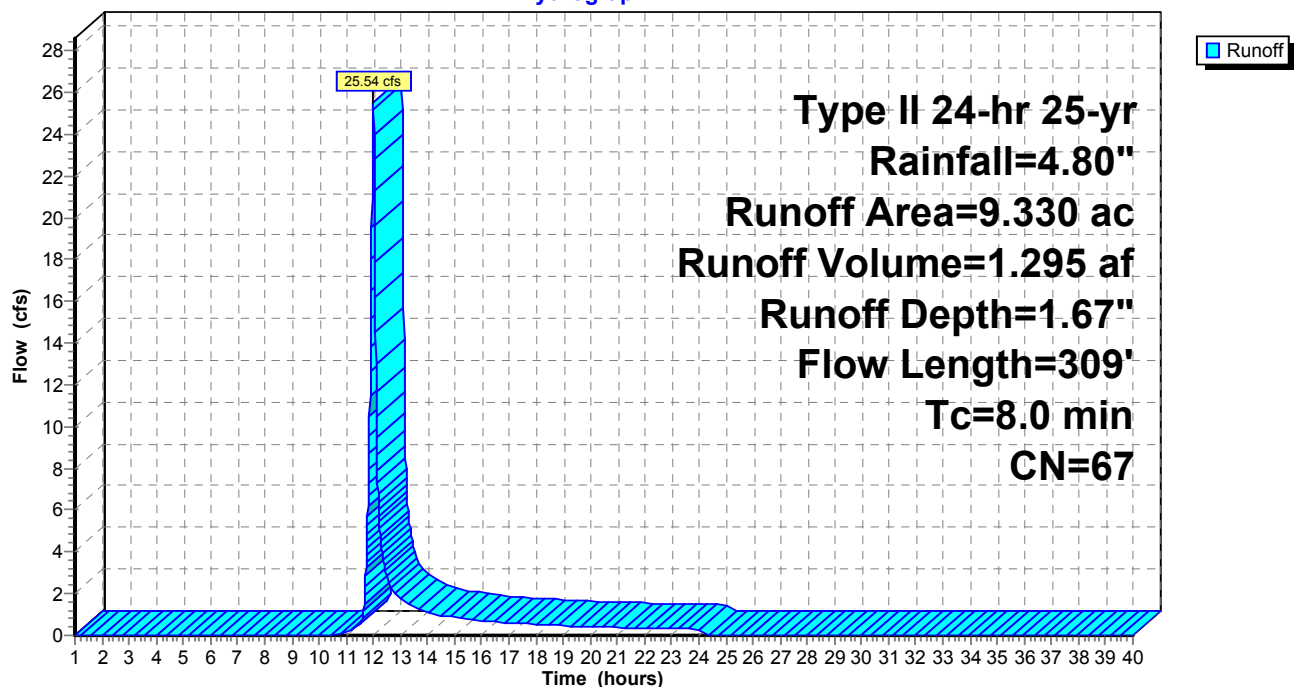
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.330	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	309	0.0500	0.6		Lag/CN Method,

Subcatchment B13: B13

Hydrograph



Subcatchment B2: B2

Runoff = 24.56 cfs @ 12.01 hrs, Volume= 1.290 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

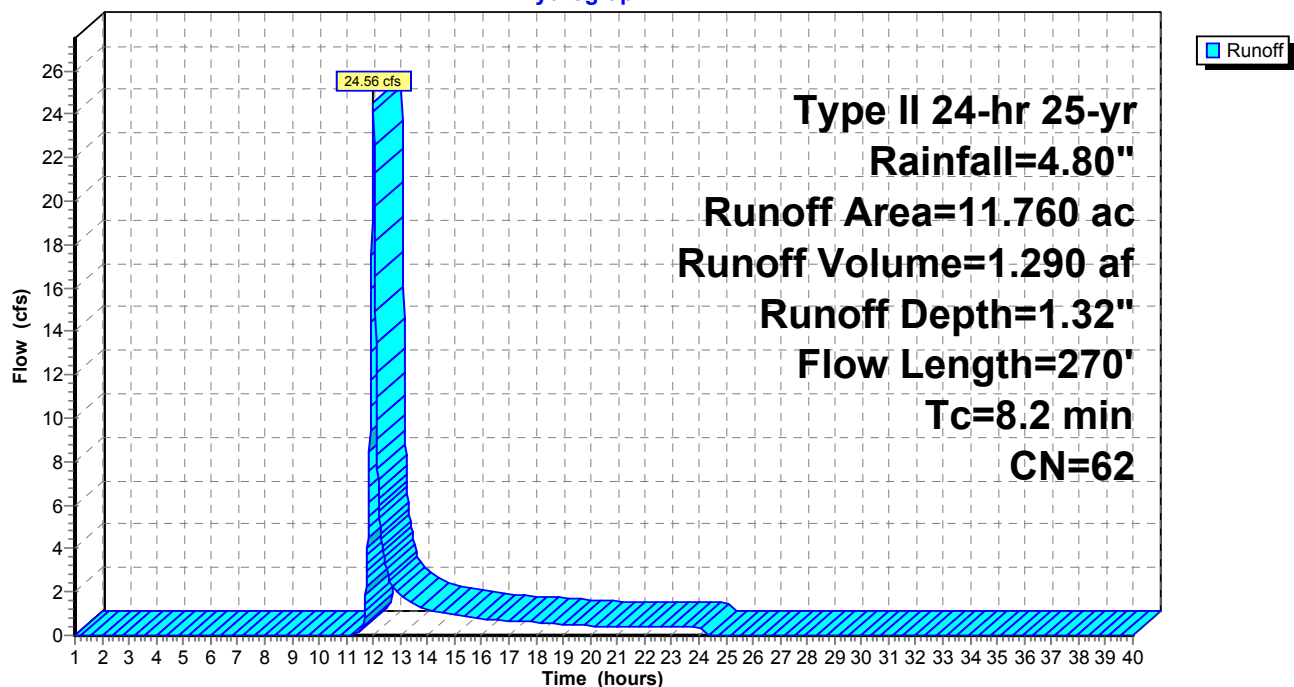
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
11.760	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	270	0.0500	0.5		Lag/CN Method,

Subcatchment B2: B2

Hydrograph



Subcatchment B3: B3

Runoff = 30.90 cfs @ 11.95 hrs, Volume= 1.341 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

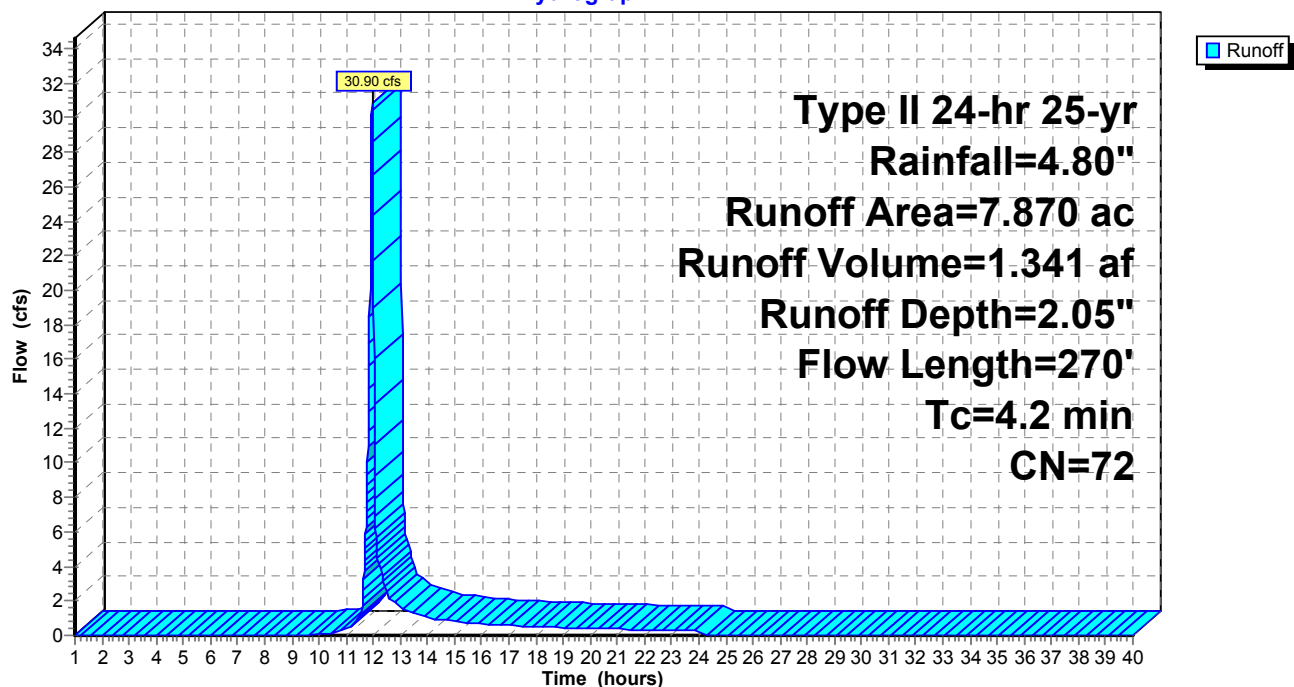
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.870	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	270	0.1100	1.1		Lag/CN Method,

Subcatchment B3: B3

Hydrograph



Subcatchment B4: B4

Runoff = 6.49 cfs @ 12.34 hrs, Volume= 0.778 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

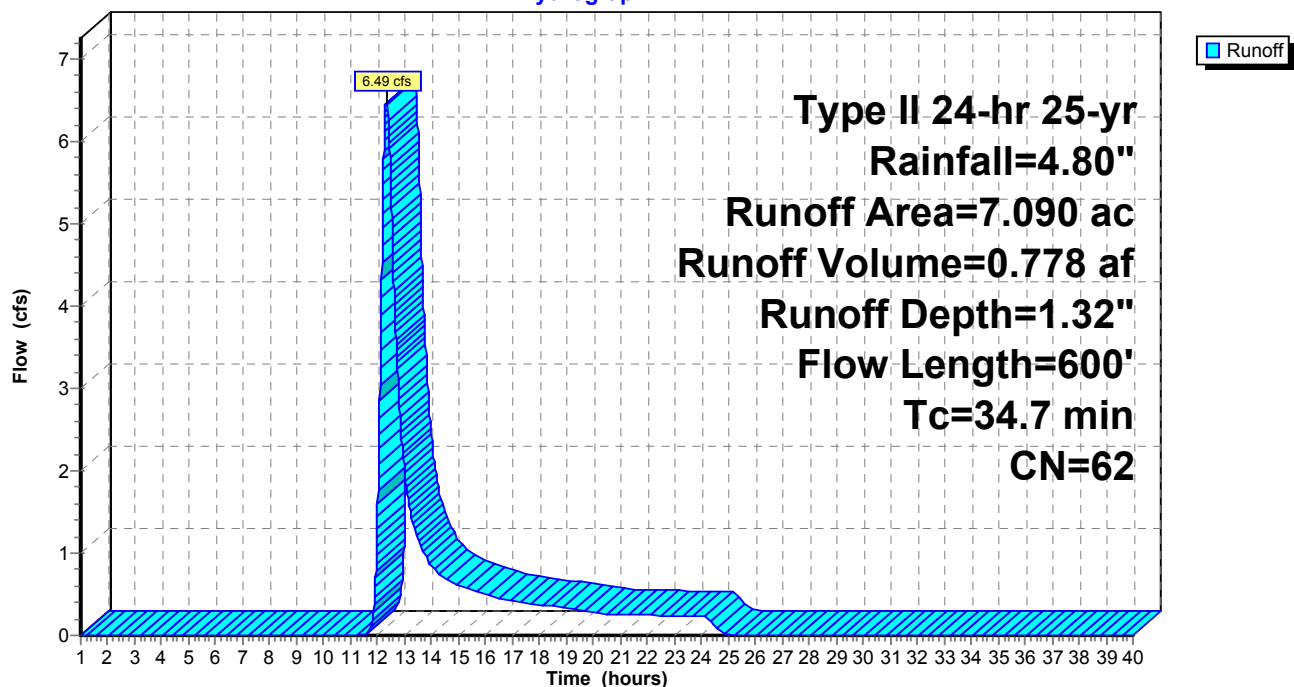
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.090	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.7	600	0.0100	0.3		Lag/CN Method,

Subcatchment B4: B4

Hydrograph



Subcatchment B5: B5

Runoff = 79.42 cfs @ 12.03 hrs, Volume= 4.413 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

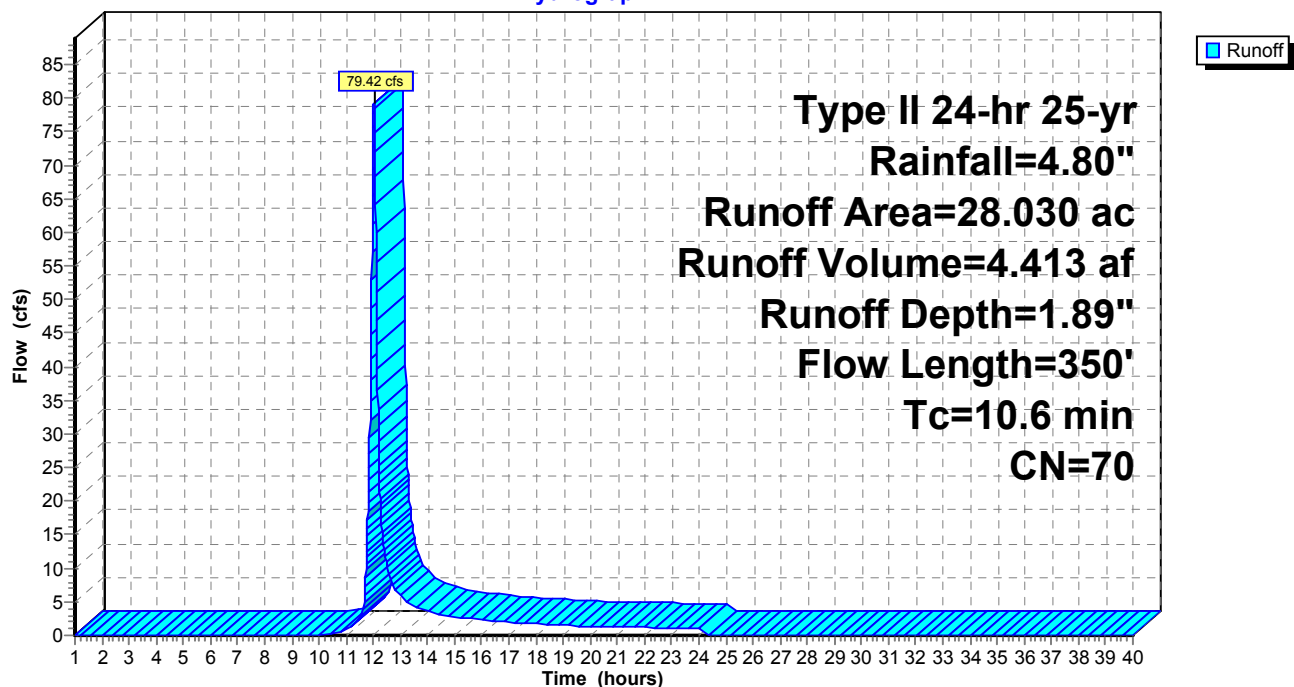
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
28.030	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	350	0.0300	0.6		Lag/CN Method,

Subcatchment B5: B5

Hydrograph



Subcatchment B6: B6

Runoff = 44.33 cfs @ 12.01 hrs, Volume= 2.328 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

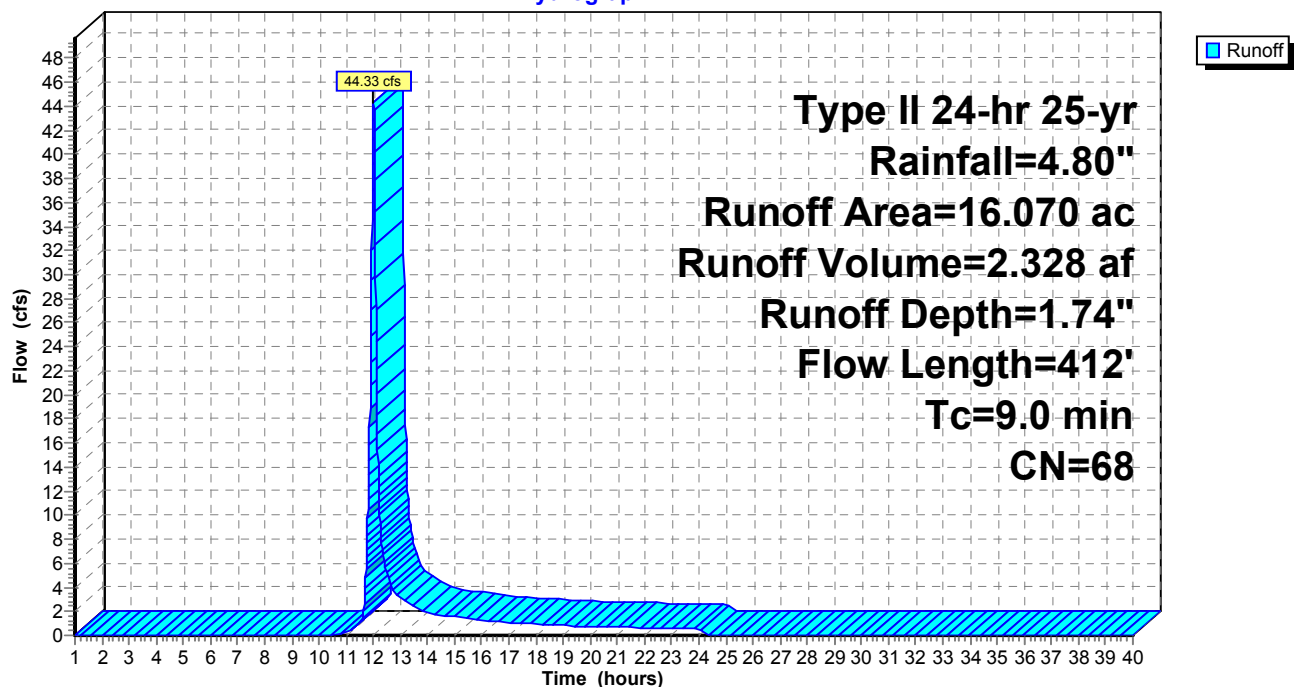
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
16.070	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	412	0.0600	0.8		Lag/CN Method,

Subcatchment B6: B6

Hydrograph



Subcatchment B7: B7

Runoff = 15.70 cfs @ 12.34 hrs, Volume= 1.862 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

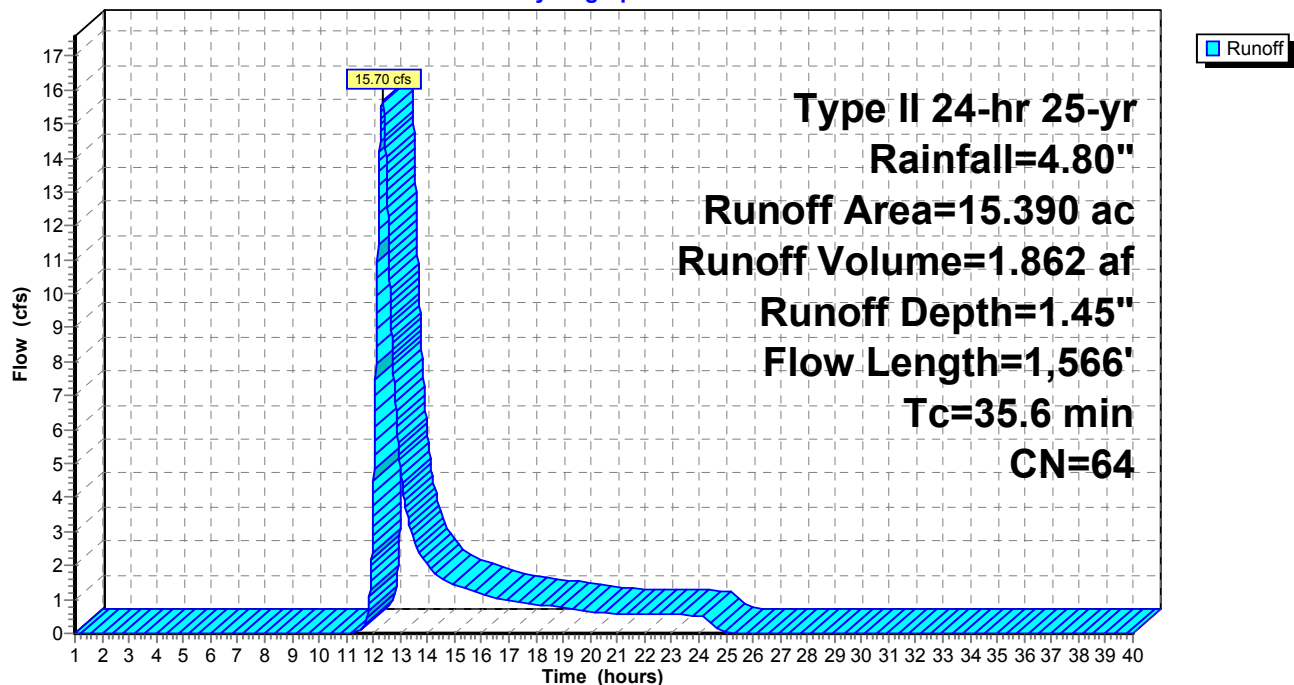
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
15.390	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.6	1,566	0.0400	0.7		Lag/CN Method,

Subcatchment B7: B7

Hydrograph



Subcatchment B8: B8

Runoff = 20.71 cfs @ 12.06 hrs, Volume= 1.287 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

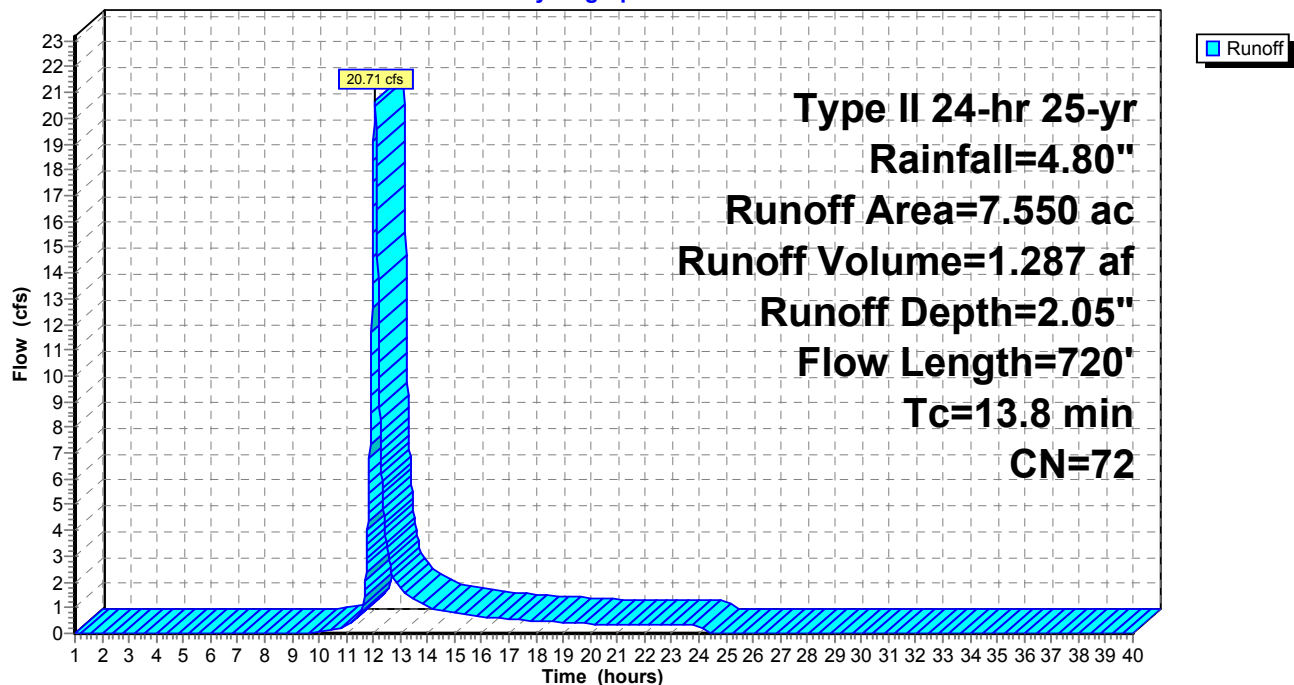
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.550	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	720	0.0500	0.9		Lag/CN Method,

Subcatchment B8: B8

Hydrograph



Subcatchment B9: B9

Runoff = 28.29 cfs @ 12.20 hrs, Volume= 2.564 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

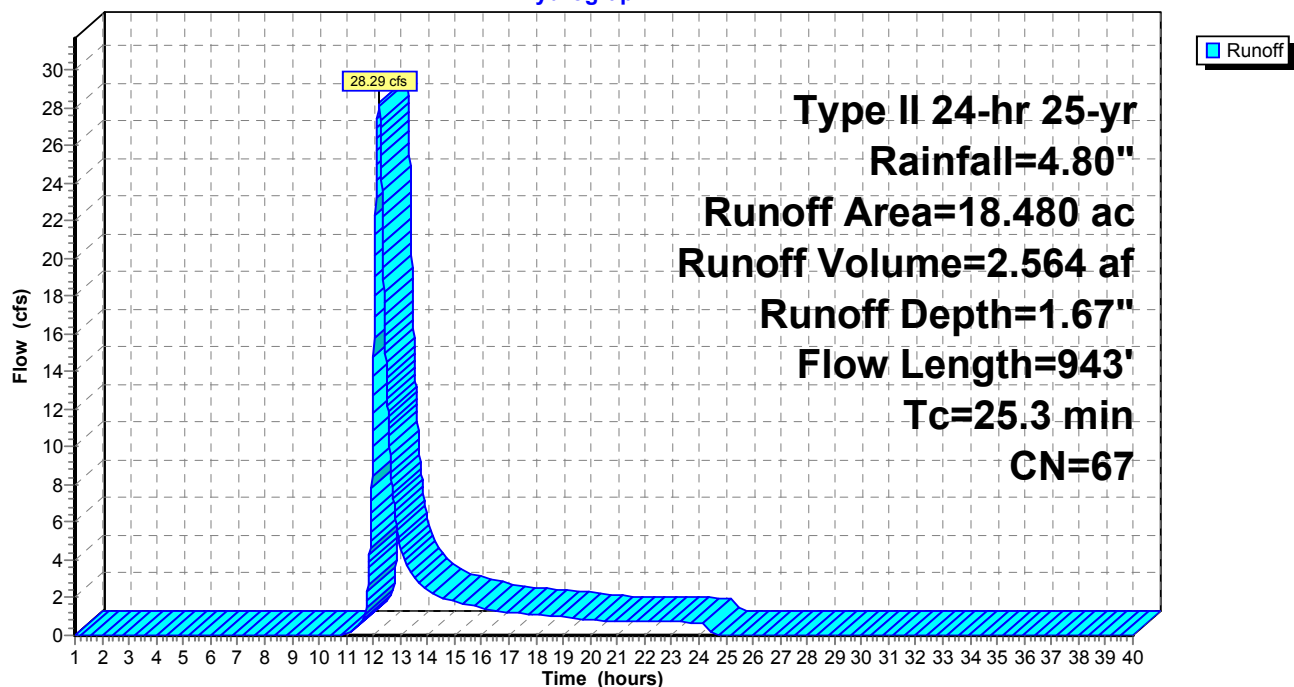
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.480	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	943	0.0300	0.6		Lag/CN Method,

Subcatchment B9: B9

Hydrograph



Subcatchment C1: C1

Runoff = 39.02 cfs @ 12.11 hrs, Volume= 2.753 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

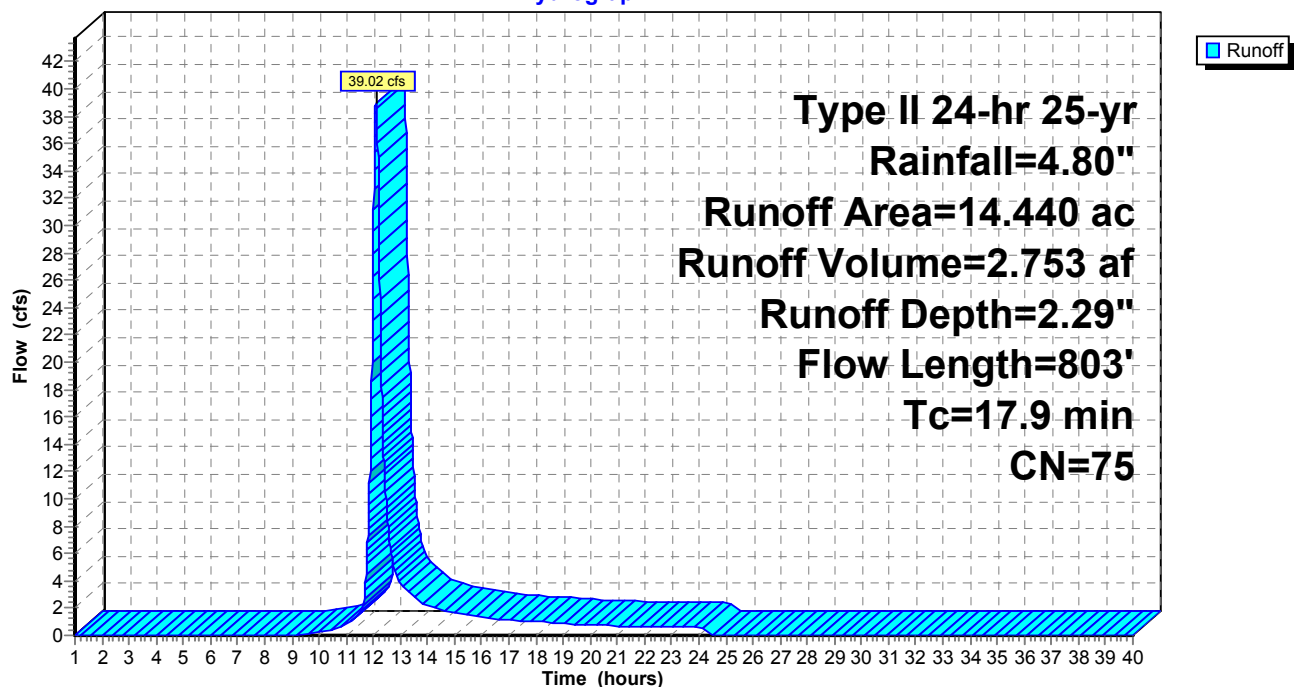
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
14.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.9	803	0.0300	0.7		Lag/CN Method,

Subcatchment C1: C1

Hydrograph



Subcatchment C3: C3

Runoff = 47.16 cfs @ 12.90 hrs, Volume= 9.574 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

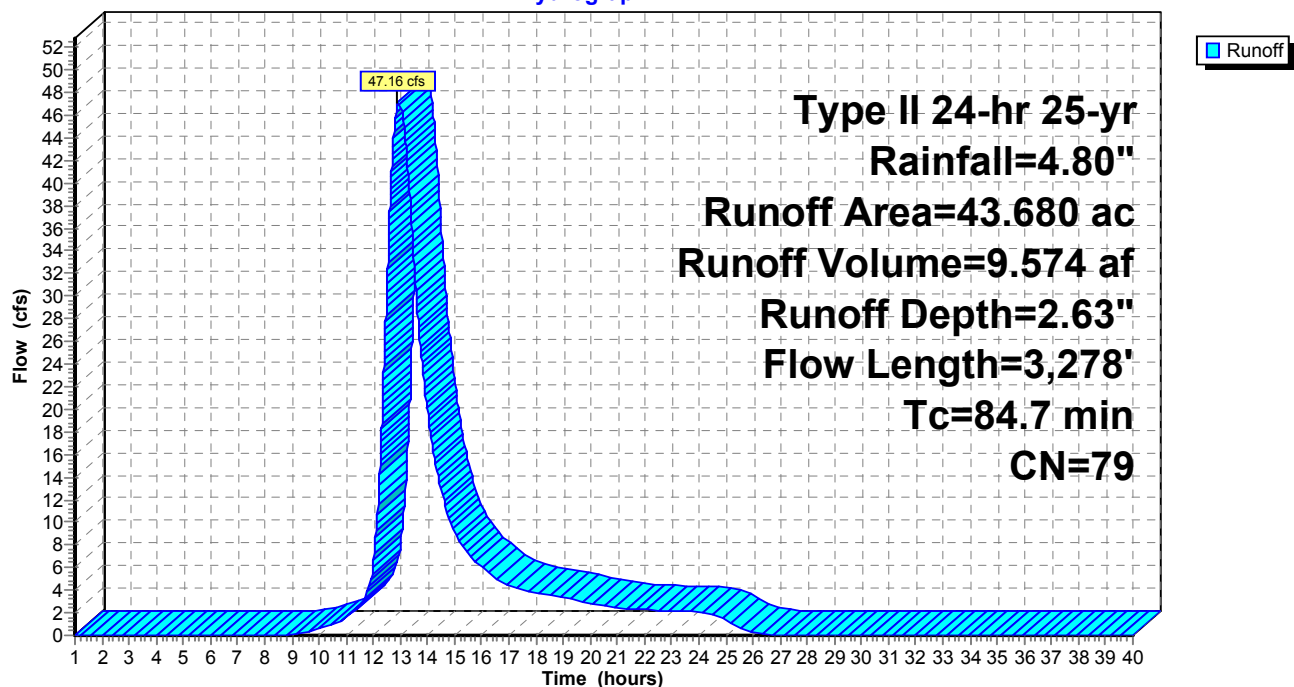
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
43.680	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
84.7	3,278	0.0100	0.6		Lag/CN Method,

Subcatchment C3: C3

Hydrograph



Subcatchment C4: C4

Runoff = 51.59 cfs @ 11.98 hrs, Volume= 2.429 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

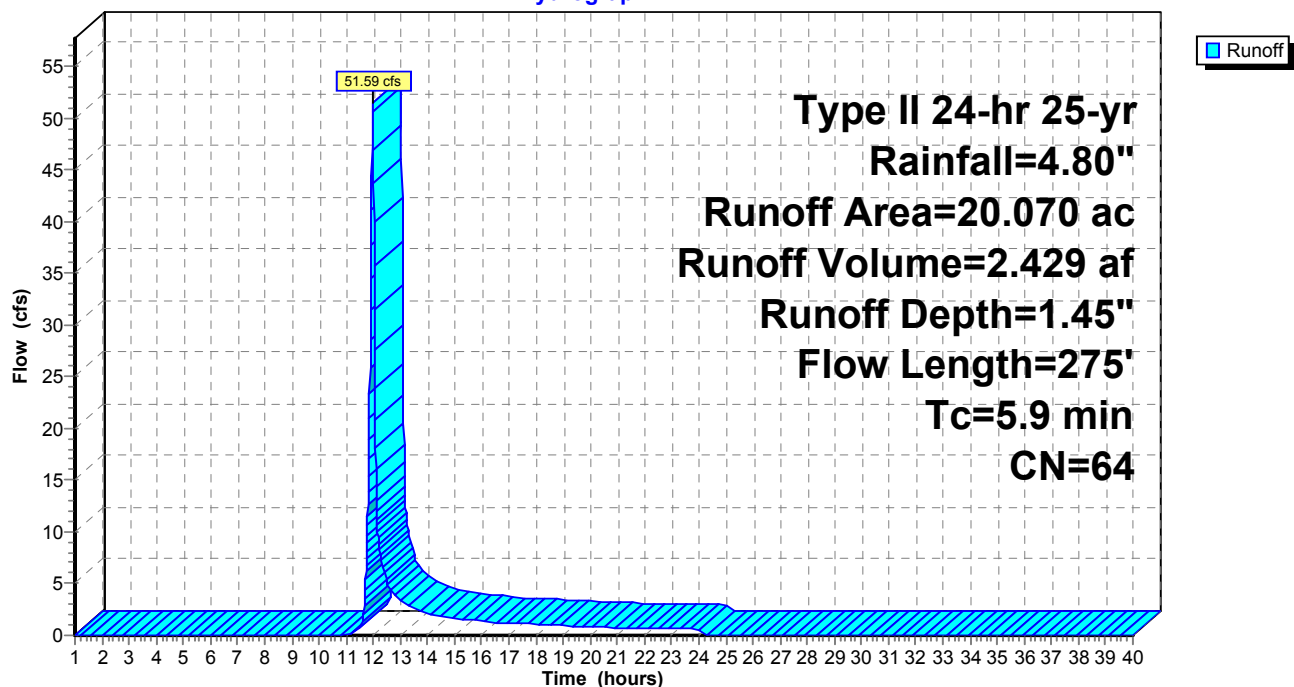
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
20.070	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	275	0.0900	0.8		Lag/CN Method,

Subcatchment C4: C4

Hydrograph



Subcatchment C5: C5

Runoff = 25.58 cfs @ 12.19 hrs, Volume= 2.251 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

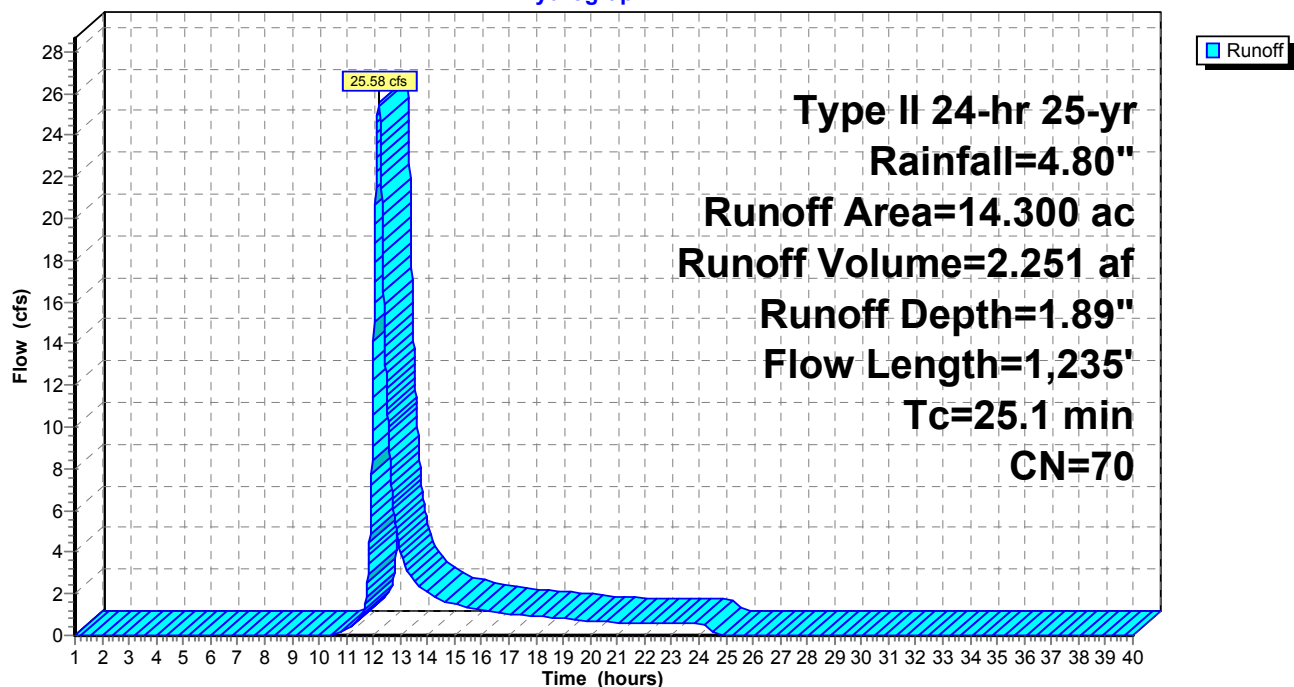
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
14.300	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,235	0.0400	0.8		Lag/CN Method,

Subcatchment C5: C5

Hydrograph



Subcatchment C6: C6

Runoff = 45.02 cfs @ 11.97 hrs, Volume= 2.043 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

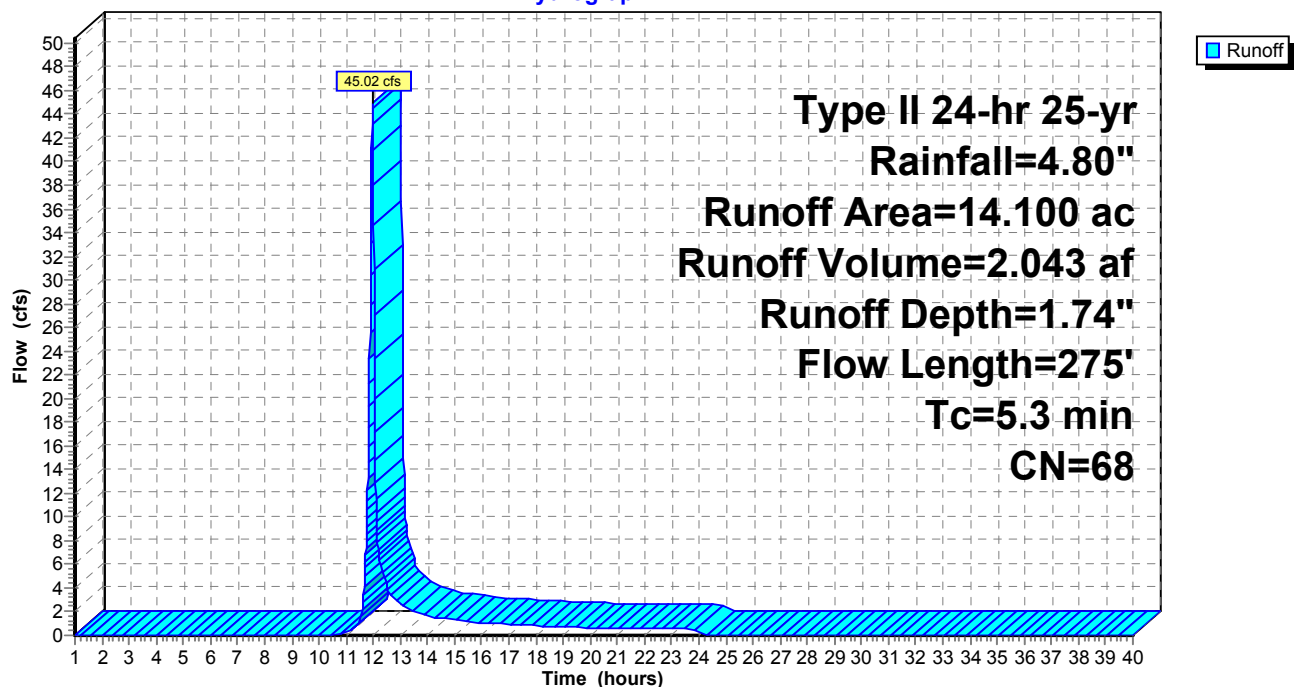
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
14.100	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	275	0.0900	0.9		Lag/CN Method,

Subcatchment C6: C6

Hydrograph



Subcatchment C7: C7

Runoff = 35.89 cfs @ 11.96 hrs, Volume= 1.593 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

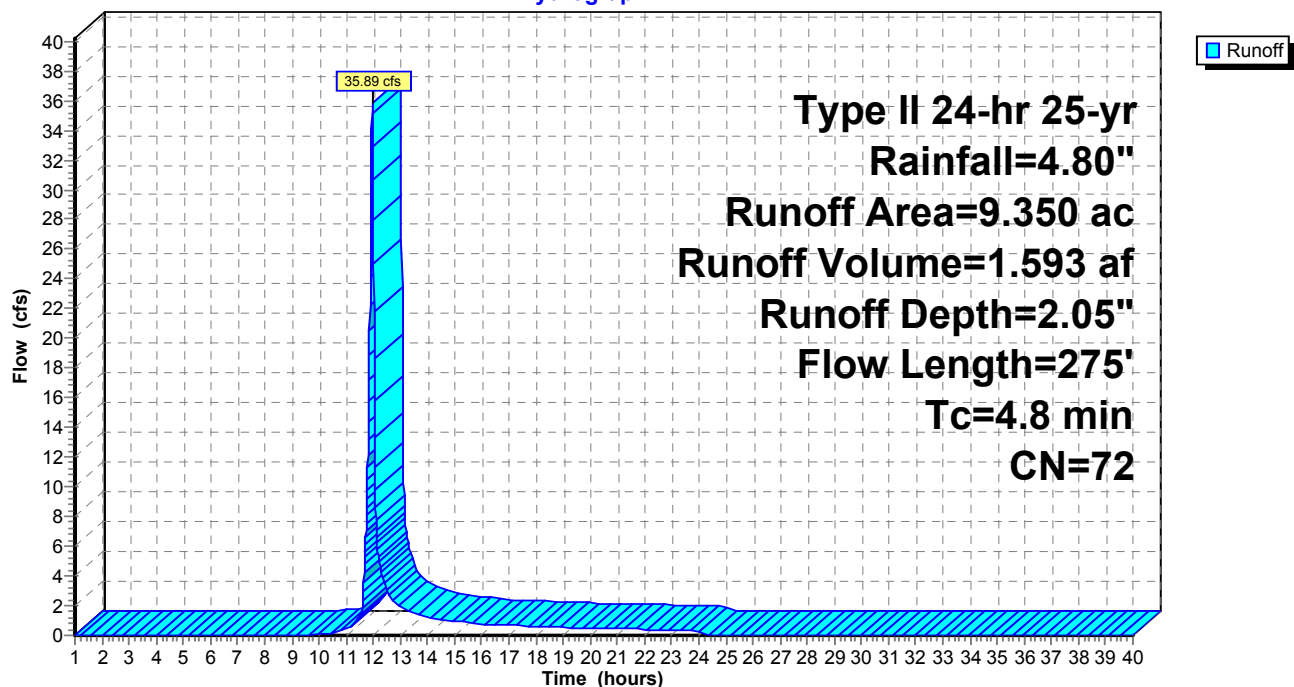
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.350	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	275	0.0900	1.0		Lag/CN Method,

Subcatchment C7: C7

Hydrograph



Subcatchment C8: C8

Runoff = 25.25 cfs @ 11.93 hrs, Volume= 1.037 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

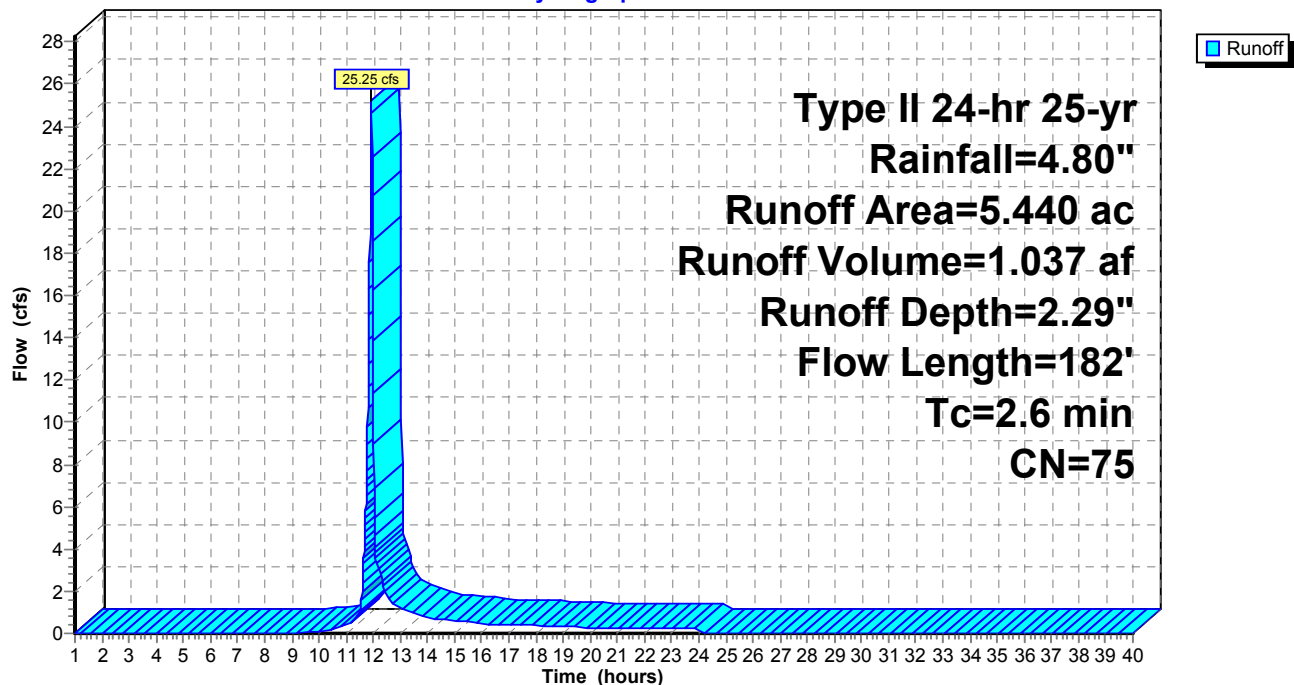
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	182	0.1300	1.2		Lag/CN Method,

Subcatchment C8: C8

Hydrograph



Subcatchment W100: W100

Runoff = 6.68 cfs @ 12.02 hrs, Volume= 0.368 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

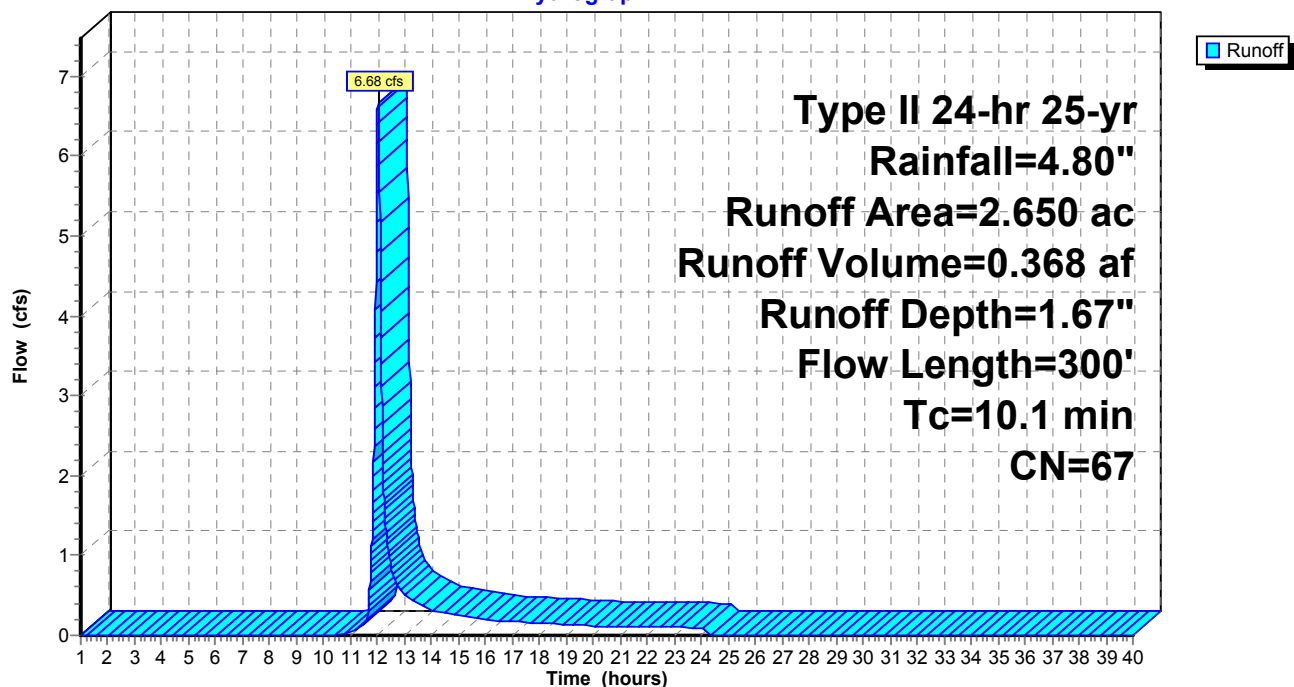
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
2.650	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	300	0.0300	0.5		Lag/CN Method,

Subcatchment W100: W100

Hydrograph



Subcatchment W101: W101

Runoff = 31.20 cfs @ 12.31 hrs, Volume= 3.465 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

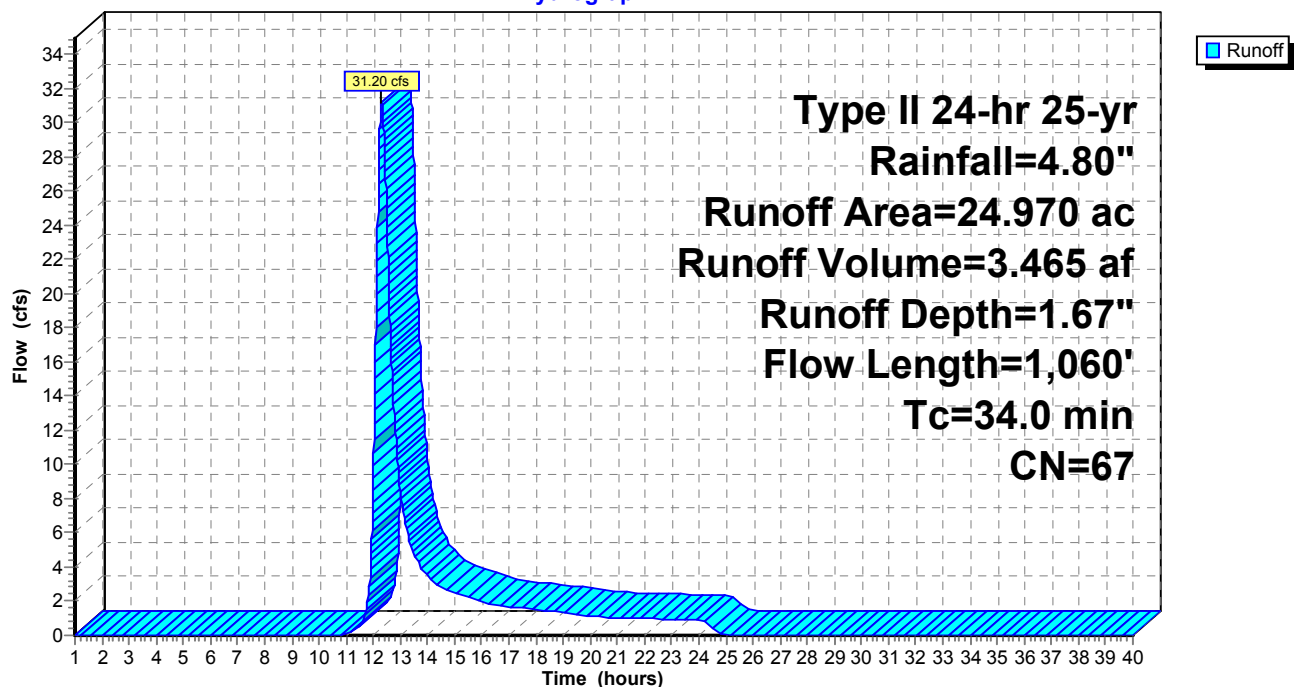
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
24.970	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.0	1,060	0.0200	0.5		Lag/CN Method,

Subcatchment W101: W101

Hydrograph



Subcatchment W102: W102

Runoff = 125.91 cfs @ 12.20 hrs, Volume= 11.052 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

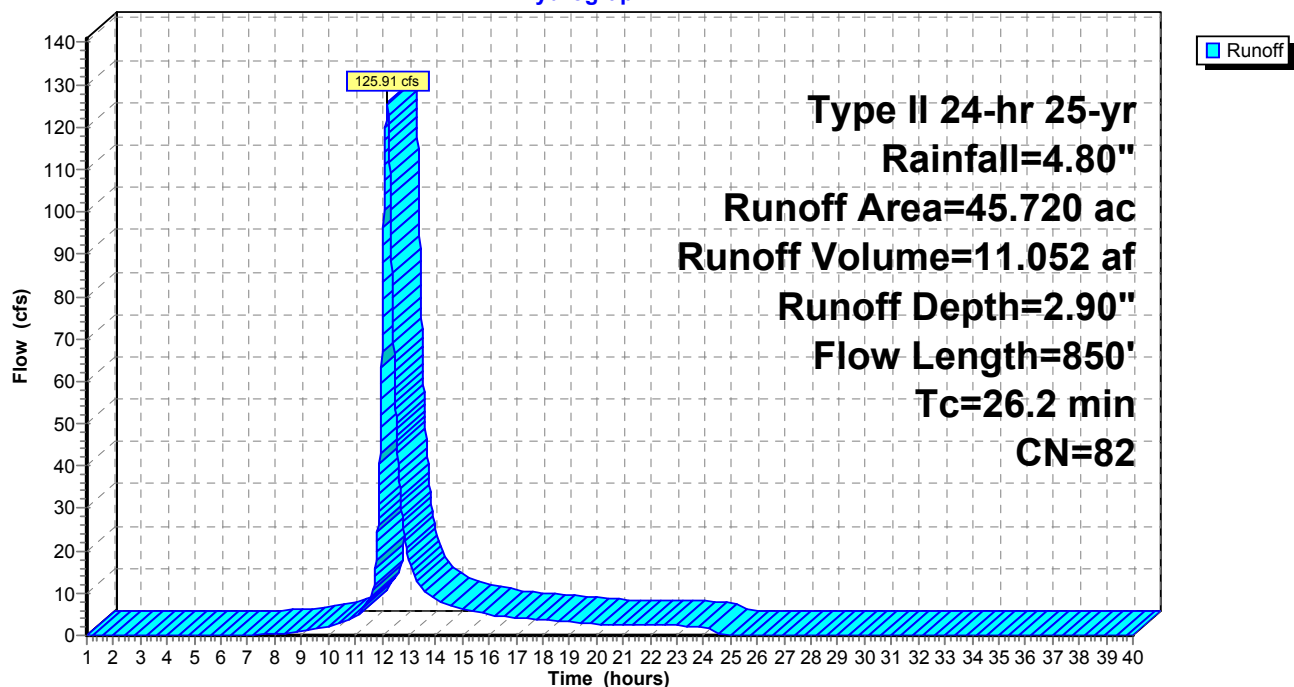
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
45.720	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.2	850	0.0100	0.5		Lag/CN Method,

Subcatchment W102: W102

Hydrograph



Subcatchment W103: W103

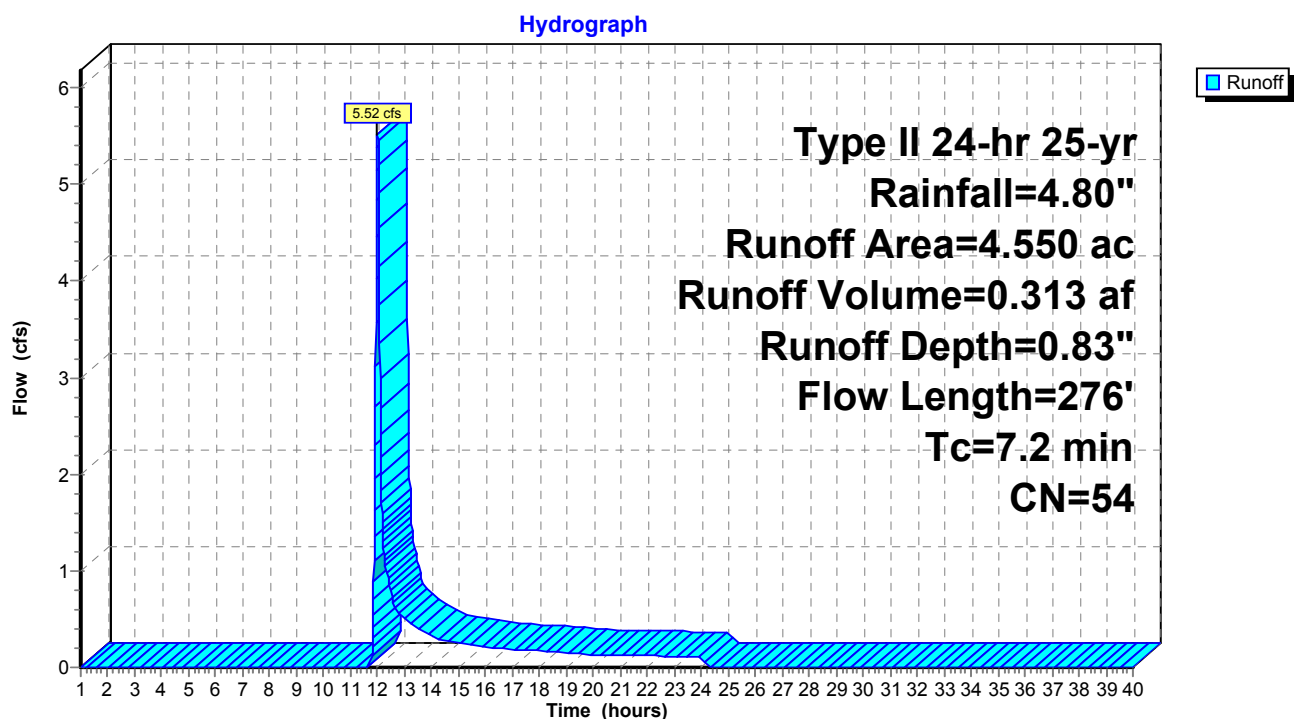
Runoff = 5.52 cfs @ 12.01 hrs, Volume= 0.313 af, Depth= 0.83"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.550	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	276	0.1000	0.6		Lag/CN Method,

Subcatchment W103: W103

Subcatchment W104: W104

Runoff = 116.51 cfs @ 12.24 hrs, Volume= 11.263 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

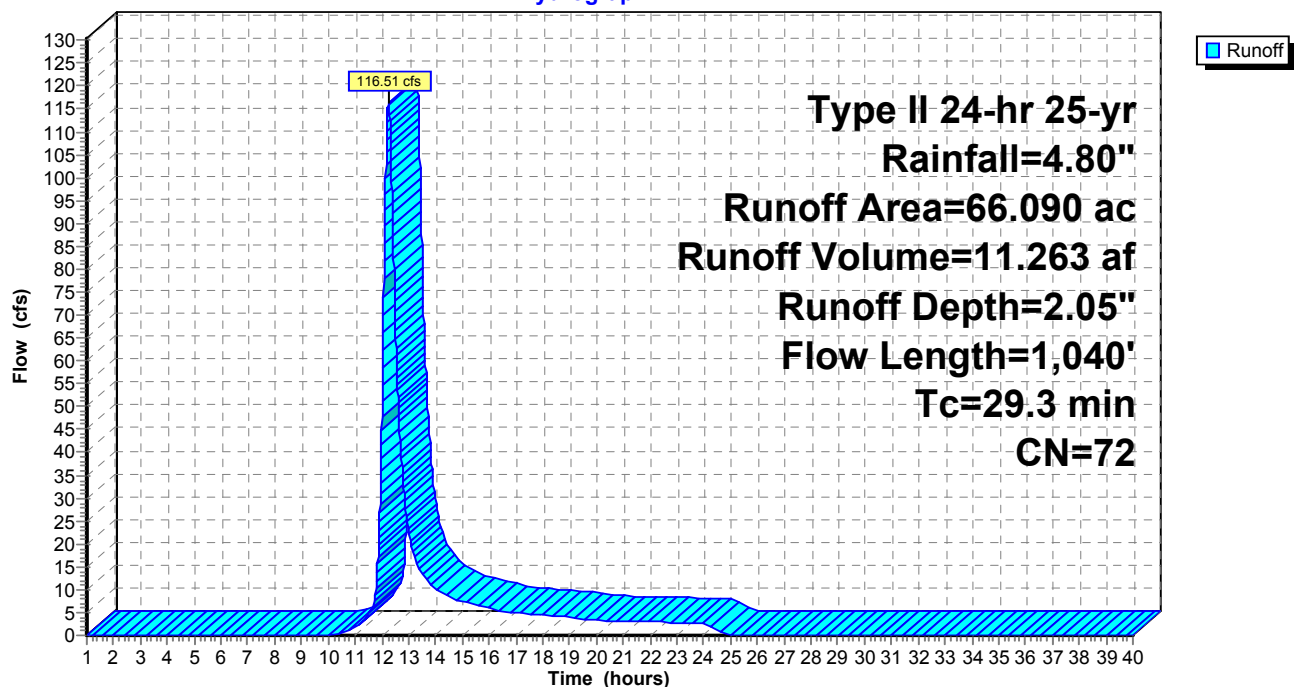
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
66.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.3	1,040	0.0200	0.6		Lag/CN Method,

Subcatchment W104: W104

Hydrograph



Subcatchment W105: W105

Runoff = 16.81 cfs @ 12.08 hrs, Volume= 1.172 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

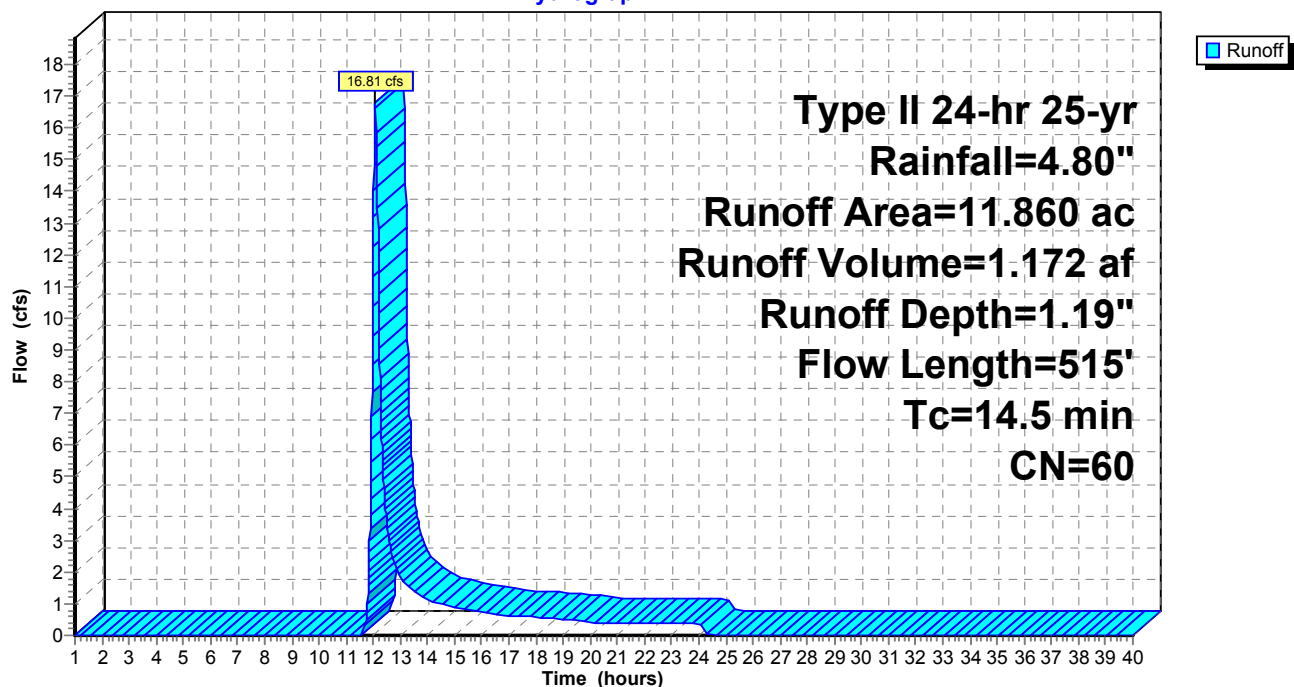
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
11.860	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	515	0.0500	0.6		Lag/CN Method,

Subcatchment W105: W105

Hydrograph



Subcatchment W106: W106

Runoff = 48.31 cfs @ 11.97 hrs, Volume= 2.272 af, Depth= 3.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

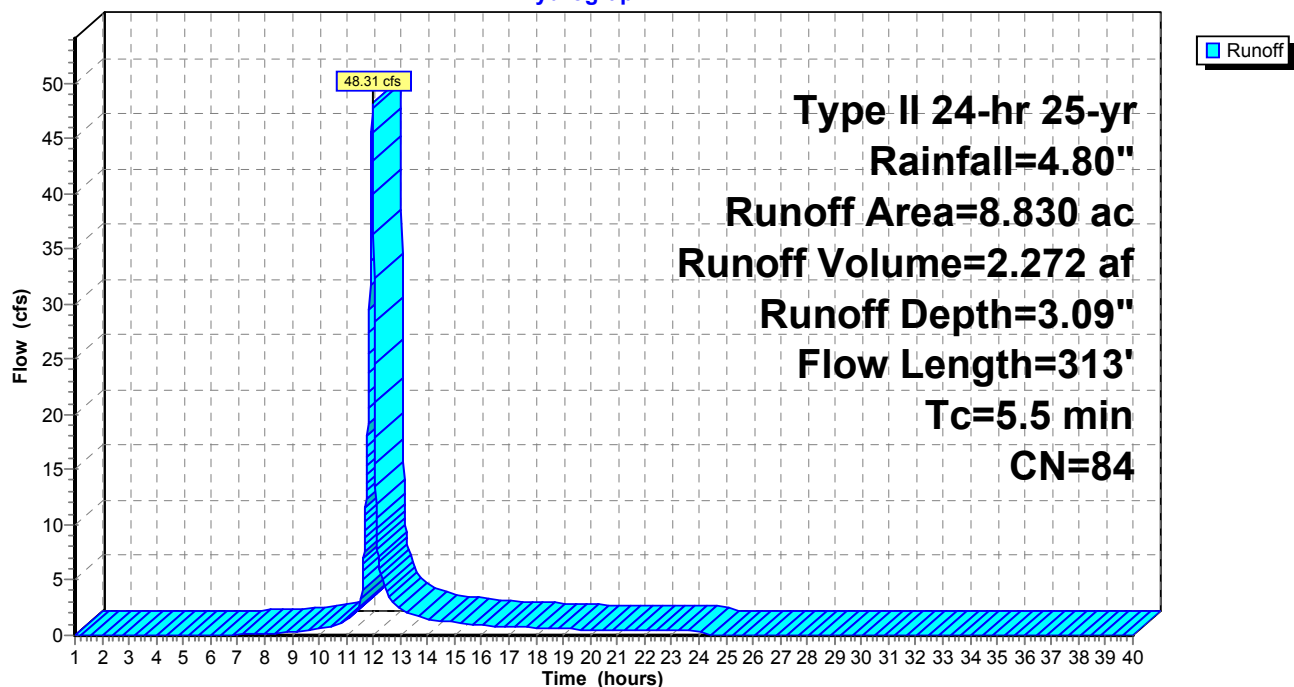
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.830	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	313	0.0400	0.9		Lag/CN Method,

Subcatchment W106: W106

Hydrograph



Subcatchment W107: W107

Runoff = 77.25 cfs @ 12.08 hrs, Volume= 5.046 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

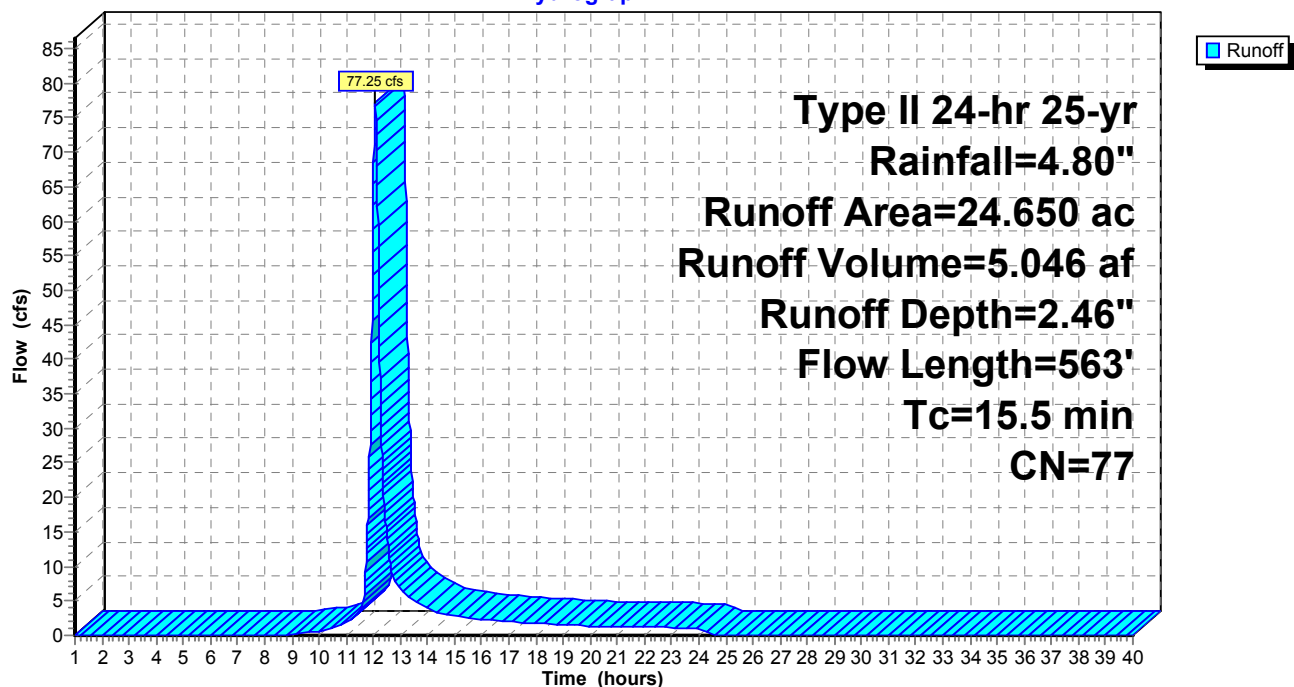
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
24.650	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	563	0.0200	0.6		Lag/CN Method,

Subcatchment W107: W107

Hydrograph



Subcatchment W108: W108

Runoff = 25.54 cfs @ 12.09 hrs, Volume= 1.767 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

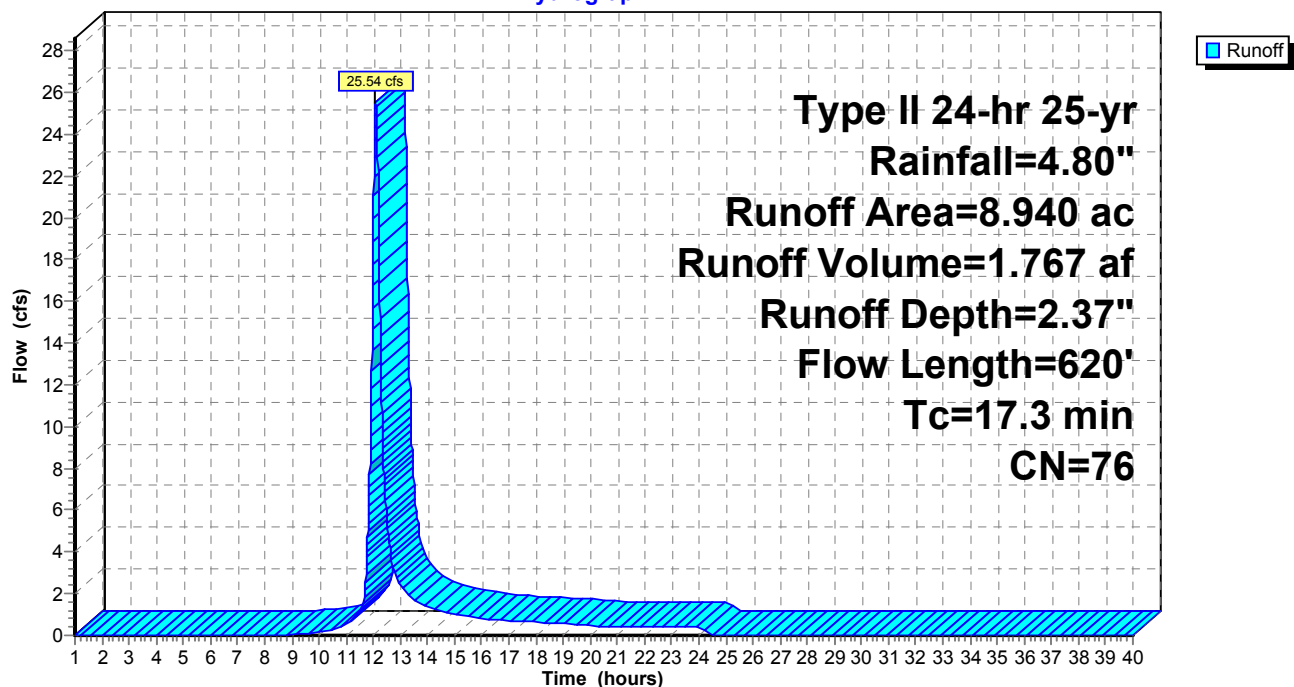
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.940	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	620	0.0200	0.6		Lag/CN Method,

Subcatchment W108: W108

Hydrograph



Subcatchment W109: W109

Runoff = 9.80 cfs @ 12.24 hrs, Volume= 0.948 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

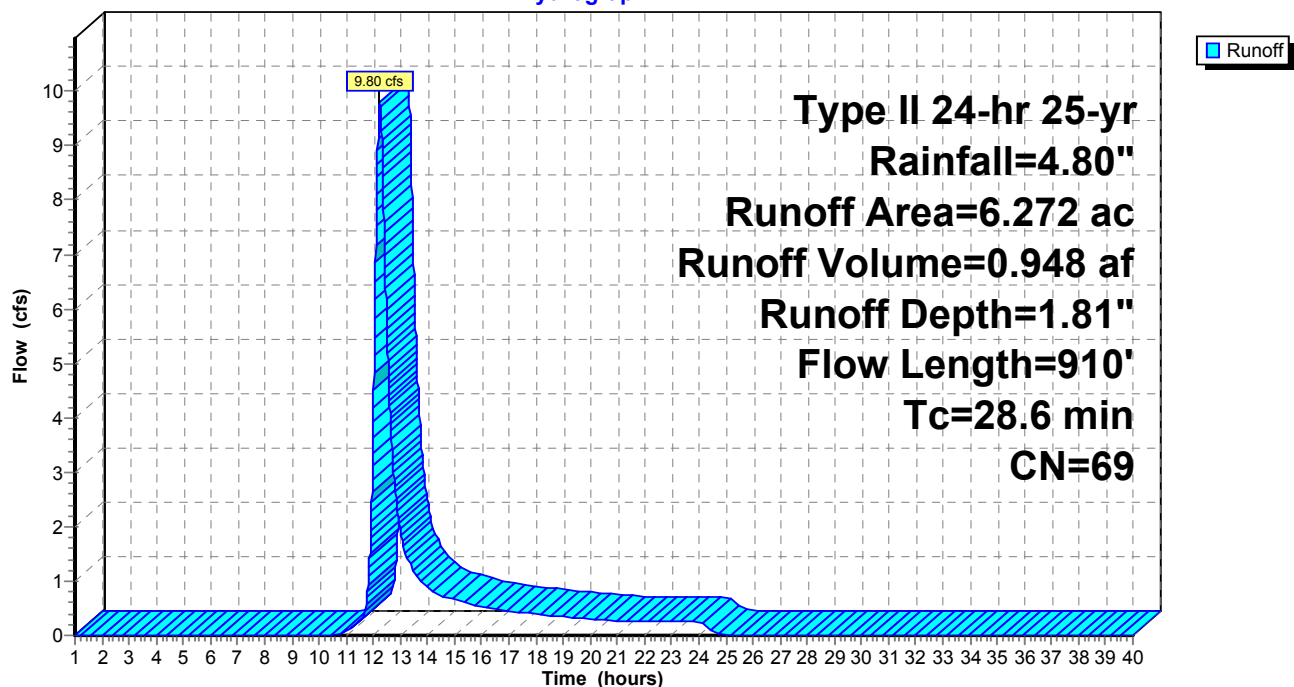
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
6.272	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	910	0.0200	0.5		Lag/CN Method,

Subcatchment W109: W109

Hydrograph



Subcatchment W110: W110

Runoff = 10.61 cfs @ 13.76 hrs, Volume= 3.770 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

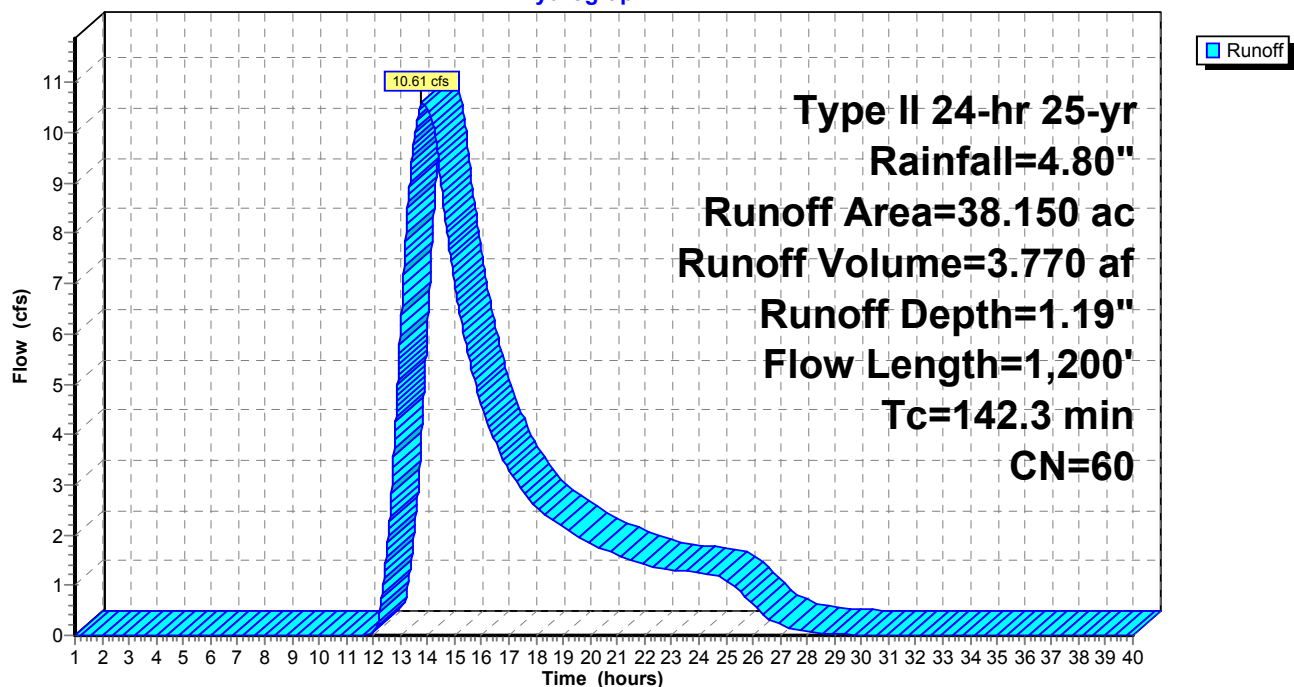
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
38.150	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
142.3	1,200	0.0020	0.1		Lag/CN Method,

Subcatchment W110: W110

Hydrograph



Subcatchment W111: W111

Runoff = 9.86 cfs @ 12.02 hrs, Volume= 0.530 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

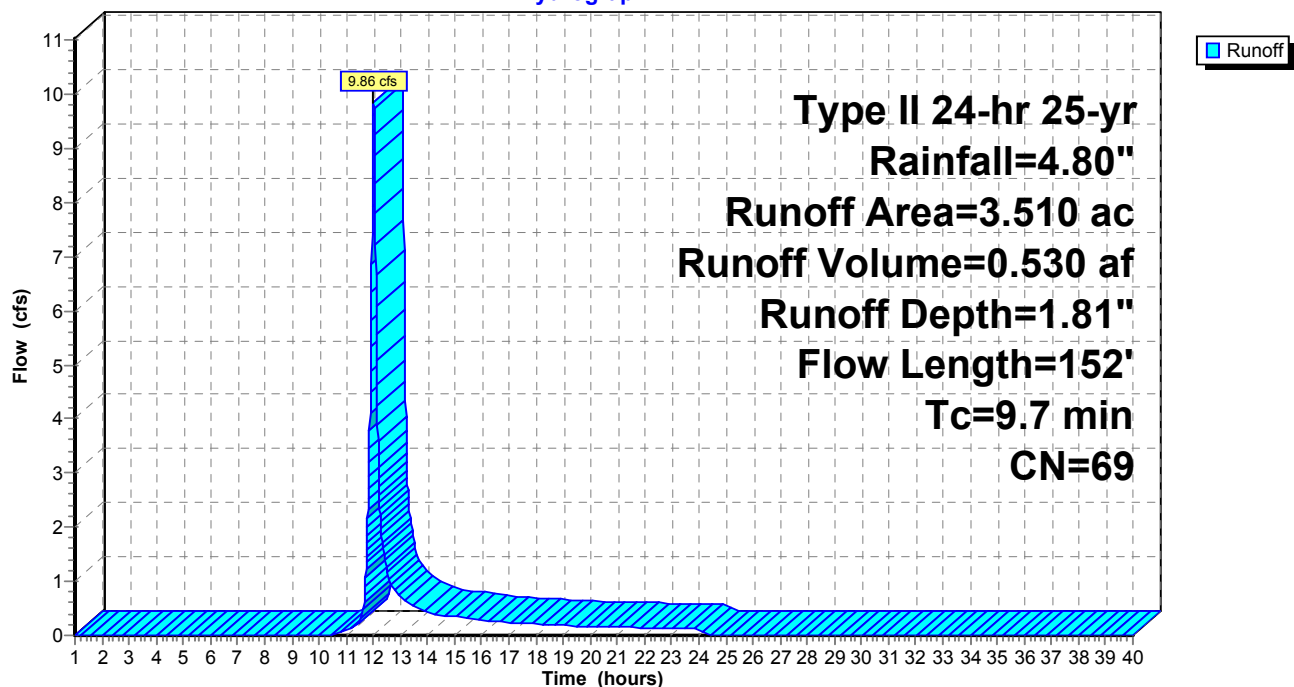
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
3.510	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	152	0.0100	0.3		Lag/CN Method,

Subcatchment W111: W111

Hydrograph



Subcatchment W112: W112

Runoff = 7.30 cfs @ 13.54 hrs, Volume= 2.452 af, Depth= 0.83"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

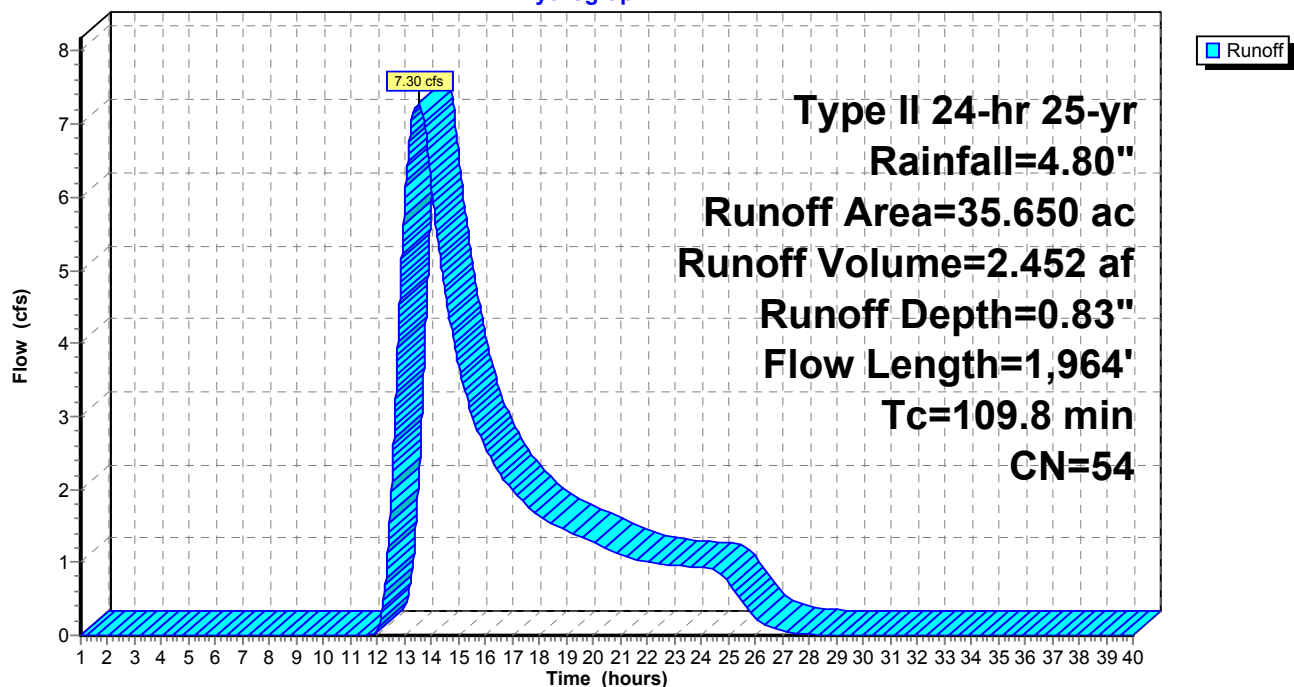
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
35.650	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
109.8	1,964	0.0100	0.3		Lag/CN Method,

Subcatchment W112: W112

Hydrograph



Subcatchment W113: W113

Runoff = 16.42 cfs @ 12.17 hrs, Volume= 1.352 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

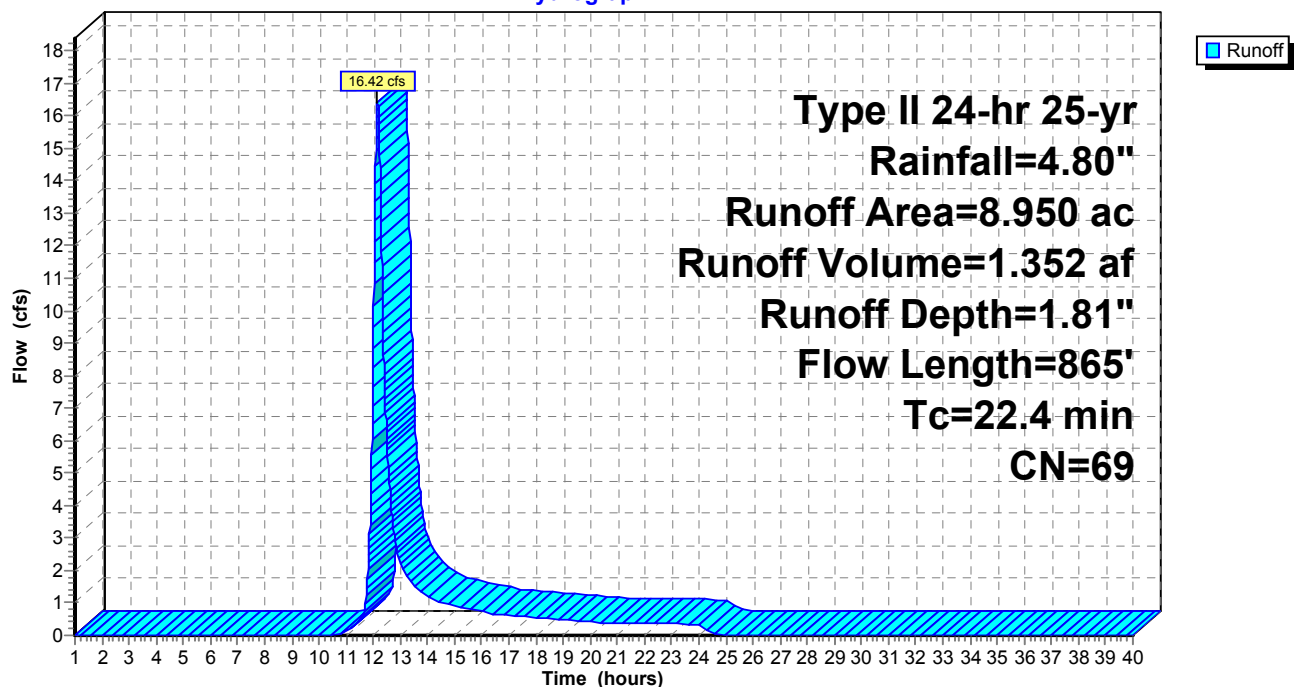
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.950	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	865	0.0300	0.6		Lag/CN Method,

Subcatchment W113: W113

Hydrograph



Subcatchment W114: W114

Runoff = 18.05 cfs @ 12.69 hrs, Volume= 3.469 af, Depth= 0.94"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

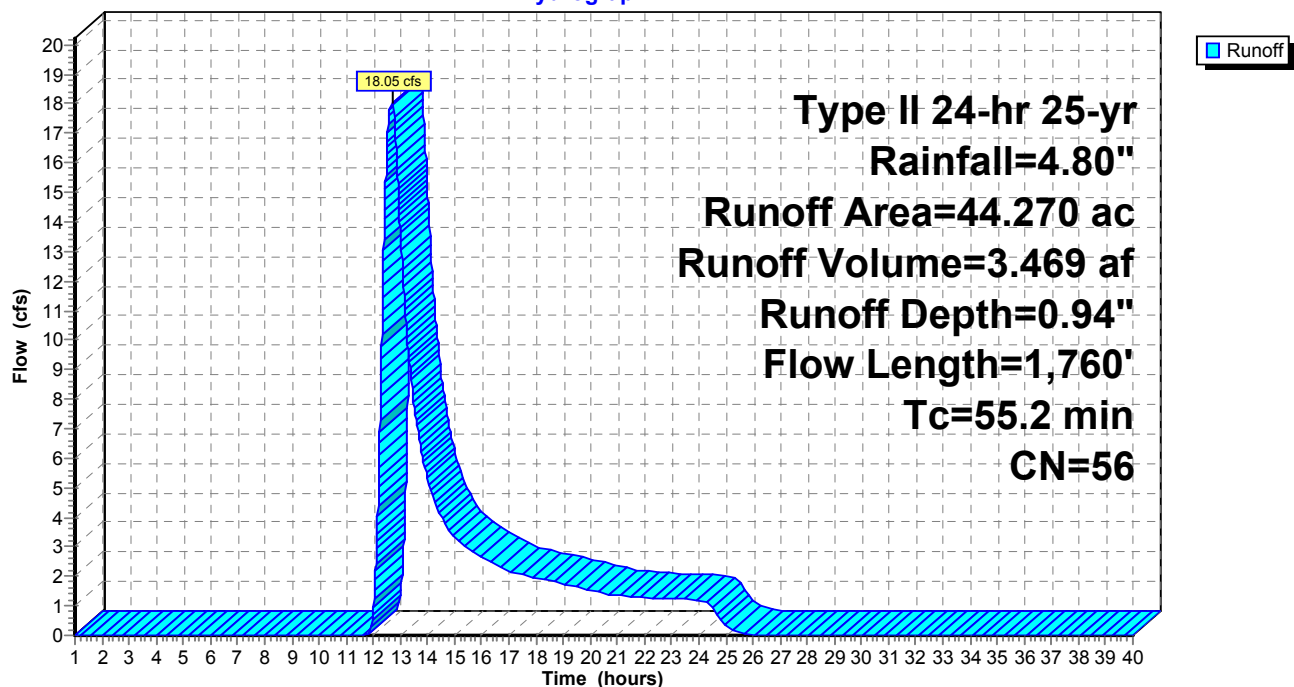
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
44.270	56	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.2	1,760	0.0300	0.5		Lag/CN Method,

Subcatchment W114: W114

Hydrograph



Subcatchment W115: W115

Runoff = 6.70 cfs @ 12.60 hrs, Volume= 1.232 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

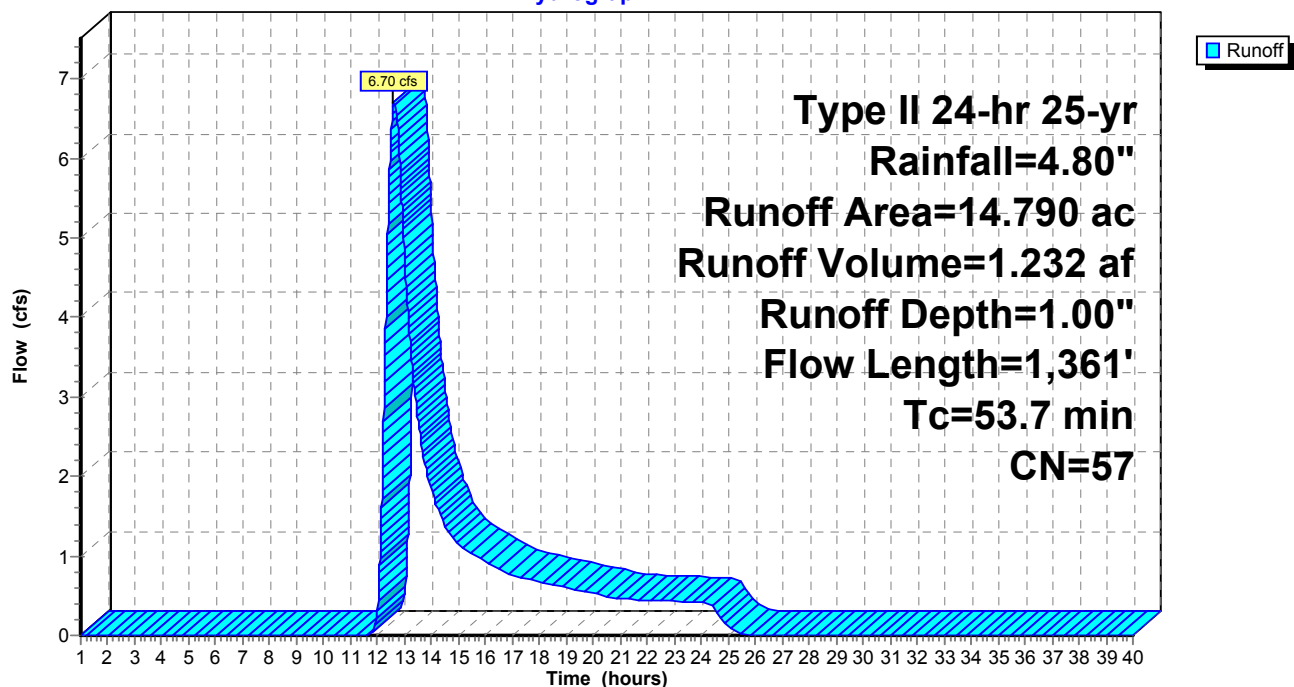
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
14.790	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	1,361	0.0200	0.4		Lag/CN Method,

Subcatchment W115: W115

Hydrograph



Subcatchment W116: W116

Runoff = 15.83 cfs @ 12.00 hrs, Volume= 0.812 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

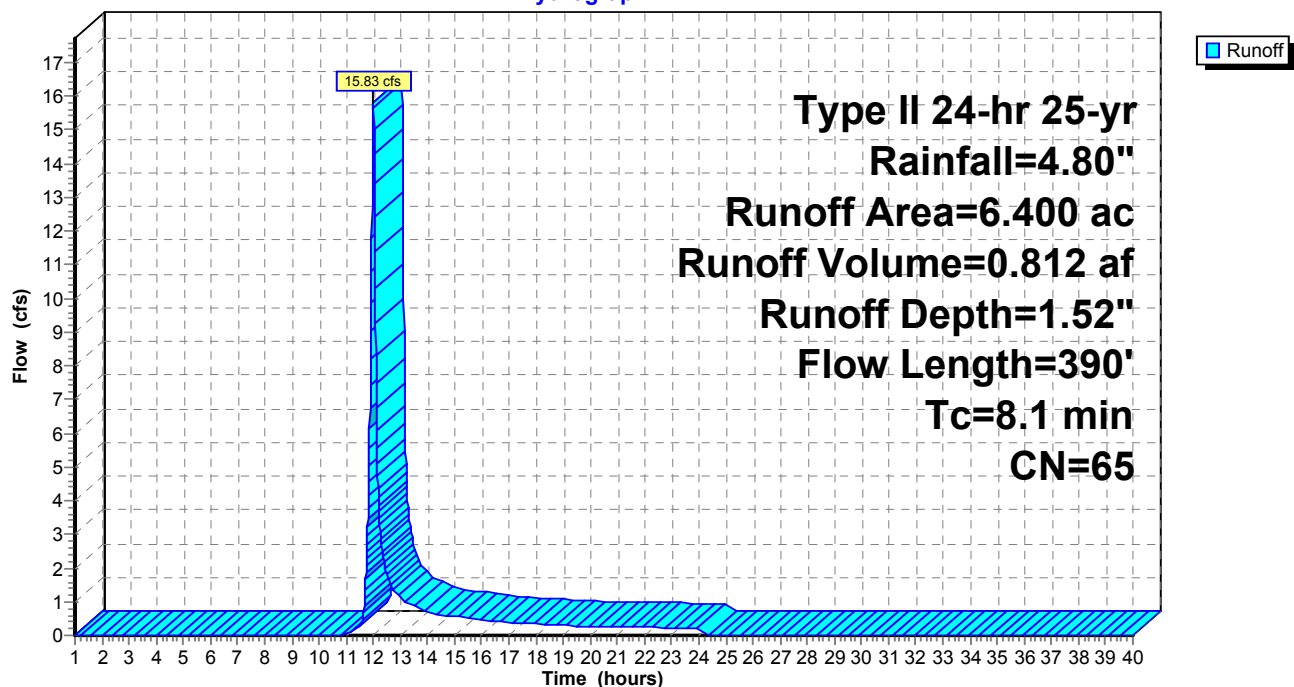
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
6.400	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	390	0.0800	0.8		Lag/CN Method,

Subcatchment W116: W116

Hydrograph



Subcatchment W117: W117

Runoff = 0.20 cfs @ 12.59 hrs, Volume= 0.086 af, Depth= 0.23"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

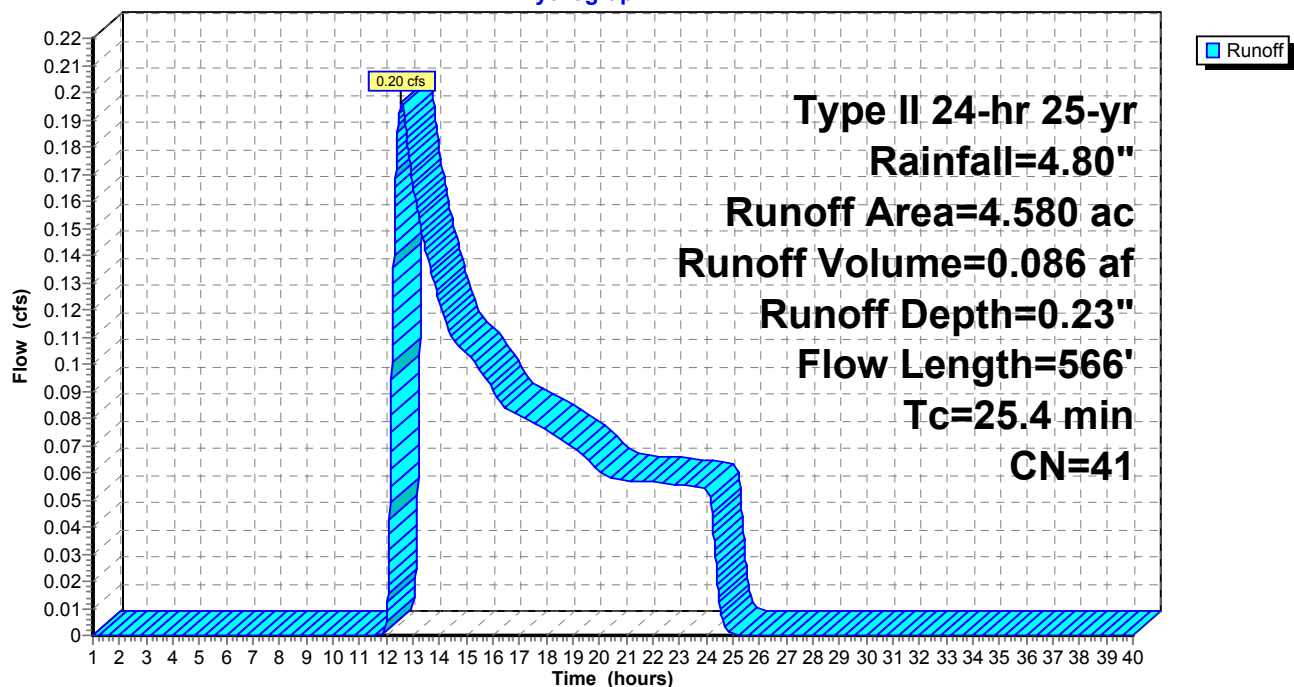
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.580	41	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	566	0.0500	0.4		Lag/CN Method,

Subcatchment W117: W117

Hydrograph



Subcatchment W118: W118

Runoff = 6.56 cfs @ 12.63 hrs, Volume= 1.459 af, Depth= 0.61"

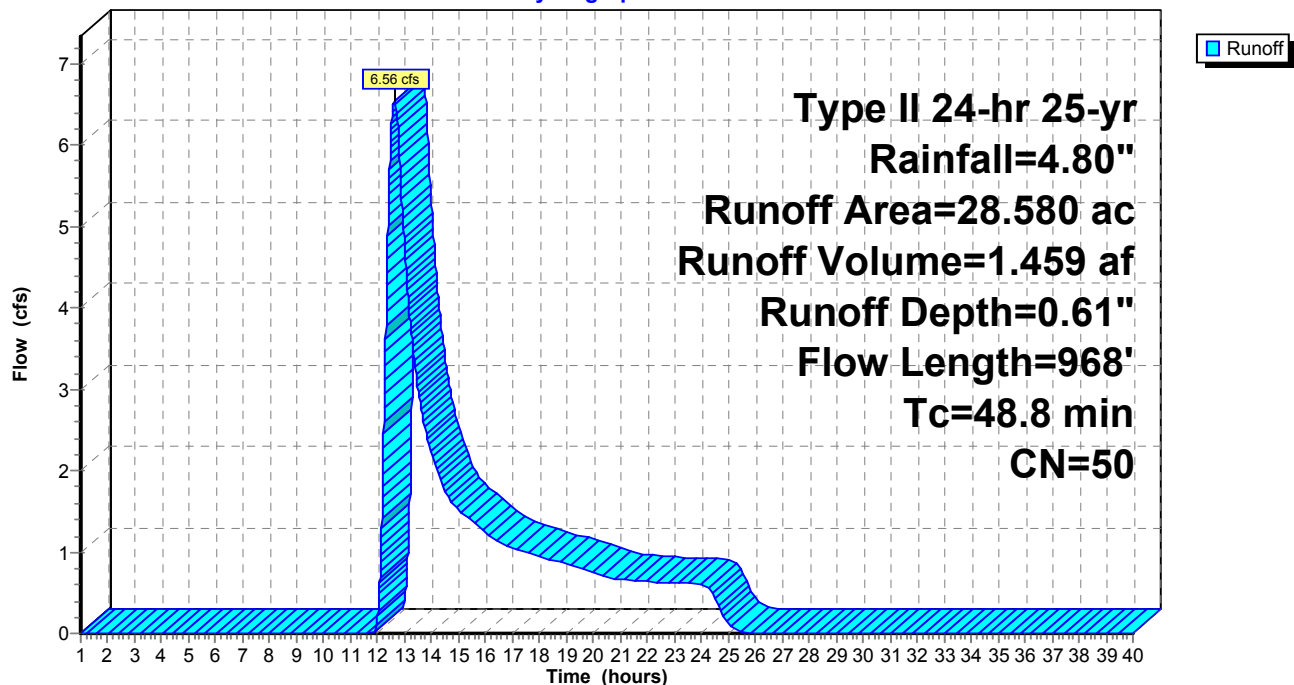
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
28.580	50	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.8	968	0.0200	0.3		Lag/CN Method,

Subcatchment W118: W118

Hydrograph



Subcatchment W119: W119

Runoff = 3.24 cfs @ 12.15 hrs, Volume= 0.380 af, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

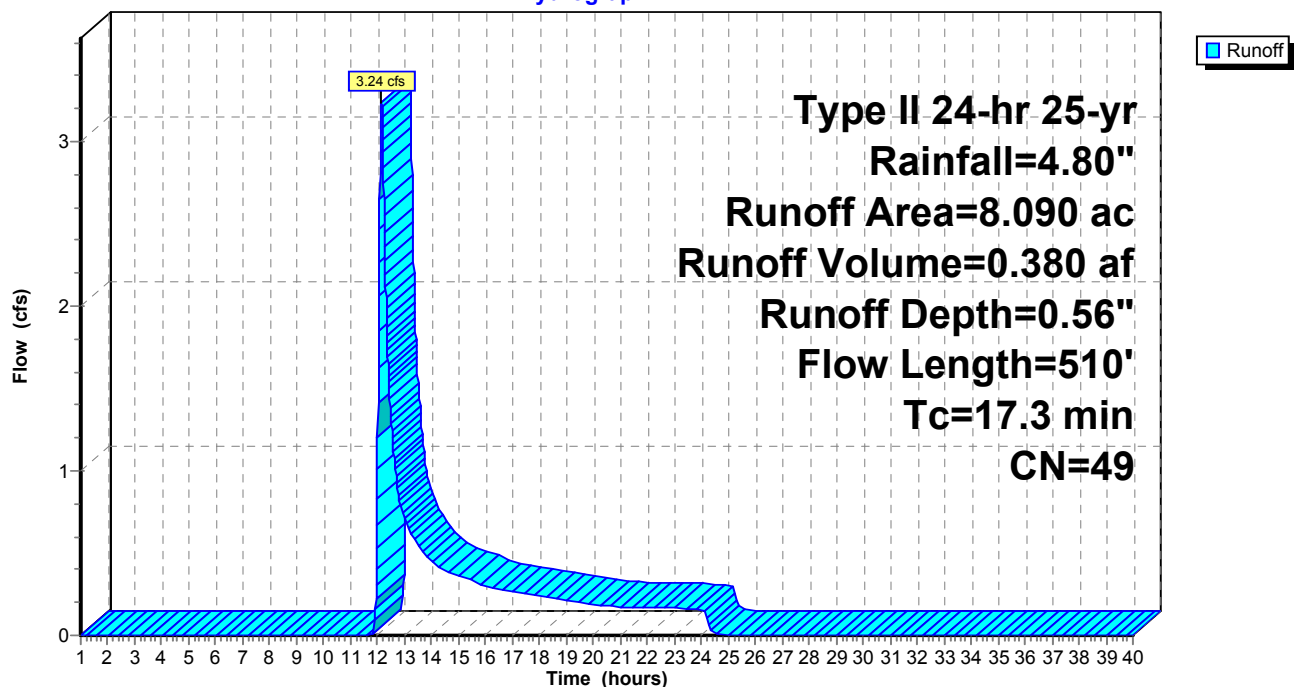
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.090	49	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	510	0.0600	0.5		Lag/CN Method,

Subcatchment W119: W119

Hydrograph



Subcatchment W12: W12

Runoff = 3.83 cfs @ 11.96 hrs, Volume= 0.167 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

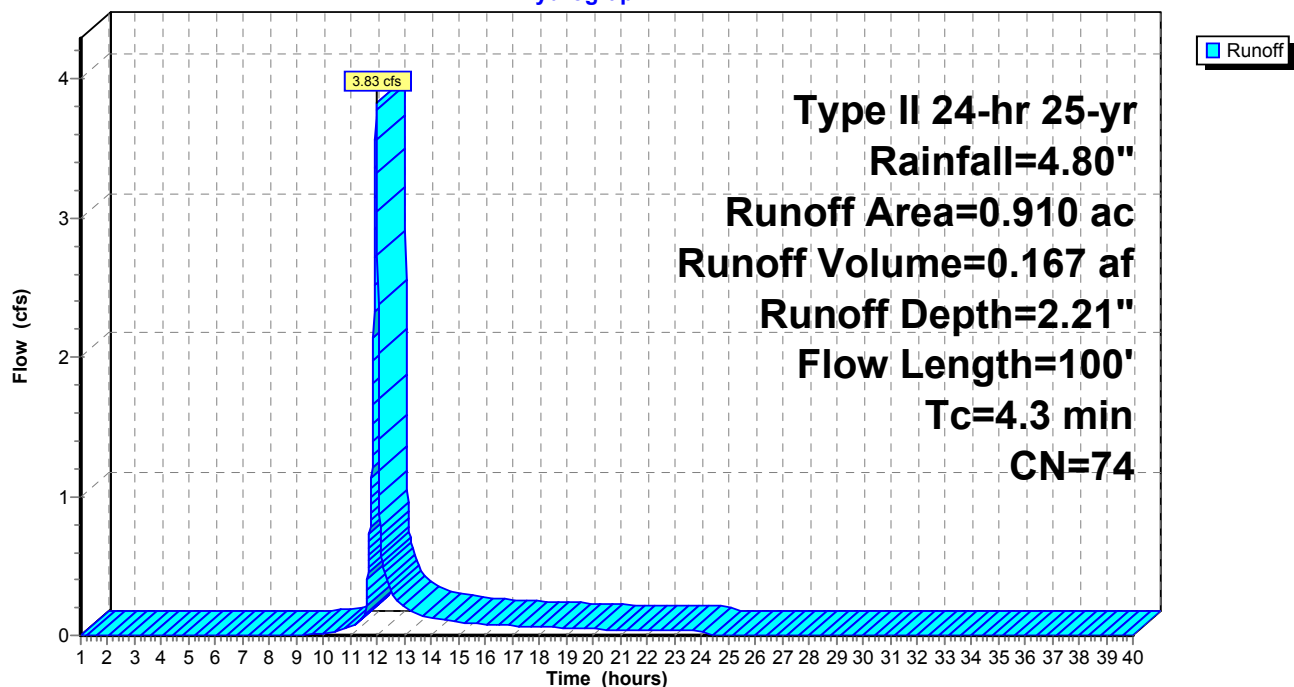
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
0.910	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.0200	0.4		Lag/CN Method,

Subcatchment W12: W12

Hydrograph



Subcatchment W120: W120

Runoff = 1.33 cfs @ 13.06 hrs, Volume= 0.528 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

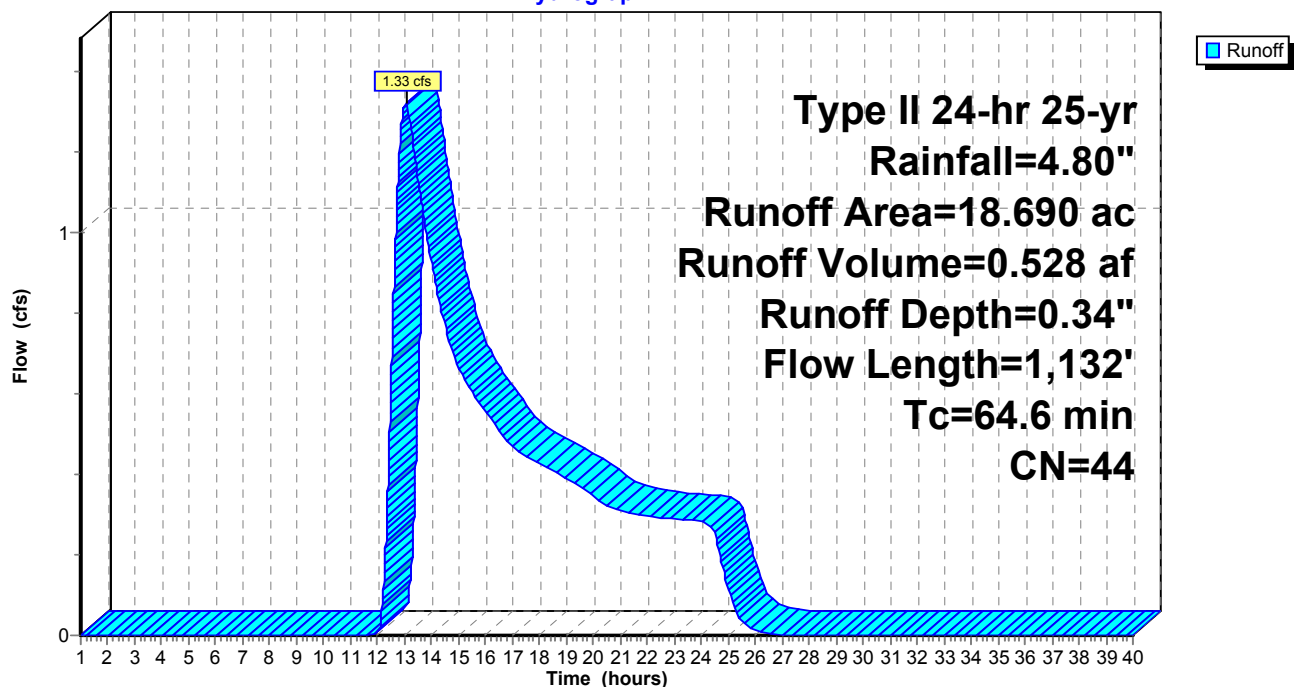
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.690	44	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.6	1,132	0.0200	0.3		Lag/CN Method,

Subcatchment W120: W120

Hydrograph



Subcatchment W121: W121

Runoff = 21.09 cfs @ 12.01 hrs, Volume= 1.085 af, Depth= 1.67"

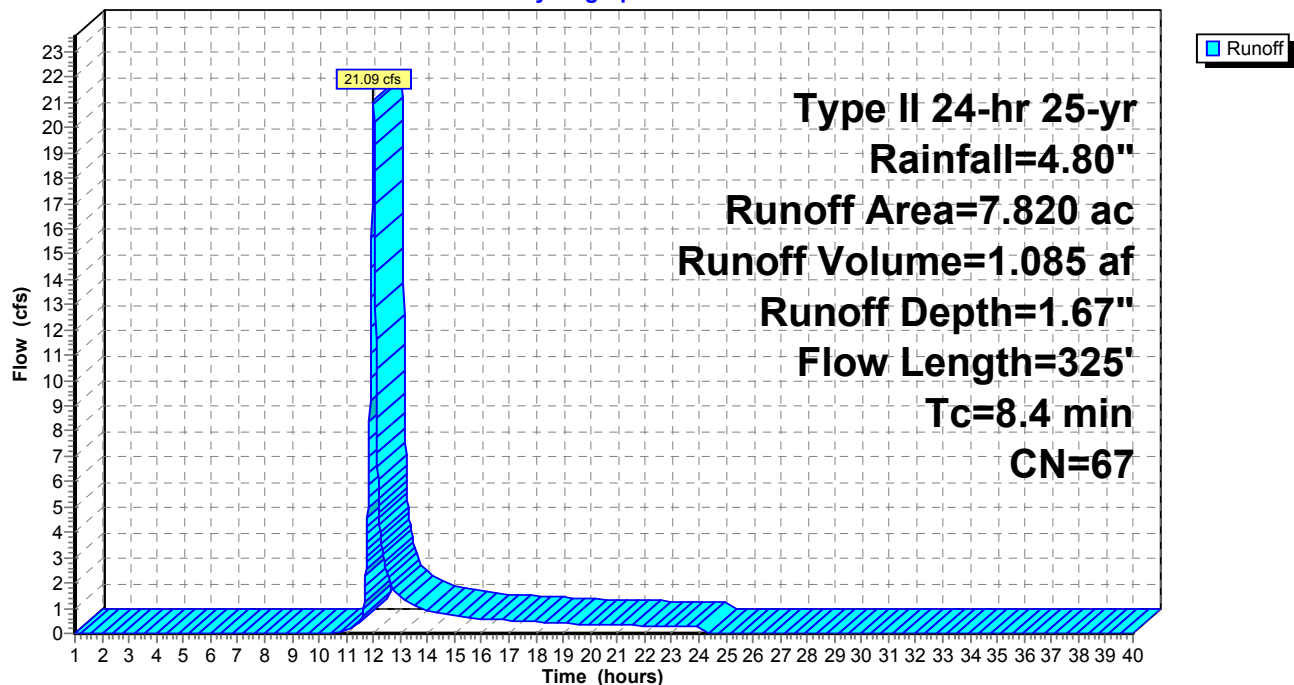
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.820	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	325	0.0500	0.6		Lag/CN Method,

Subcatchment W121: W121

Hydrograph



Subcatchment W122: W122

Runoff = 38.58 cfs @ 12.08 hrs, Volume= 2.660 af, Depth= 3.28"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

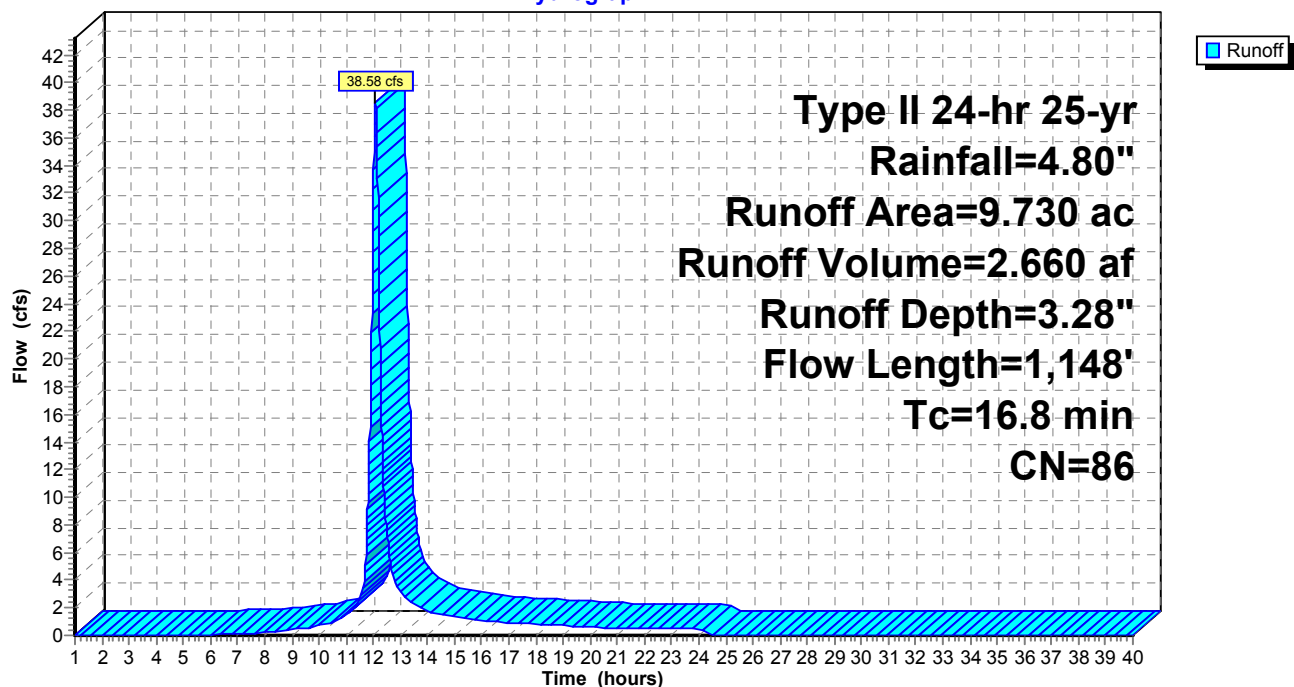
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.730	86	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,148	0.0300	1.1		Lag/CN Method,

Subcatchment W122: W122

Hydrograph



Subcatchment W123: W123

Runoff = 6.49 cfs @ 12.08 hrs, Volume= 0.435 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

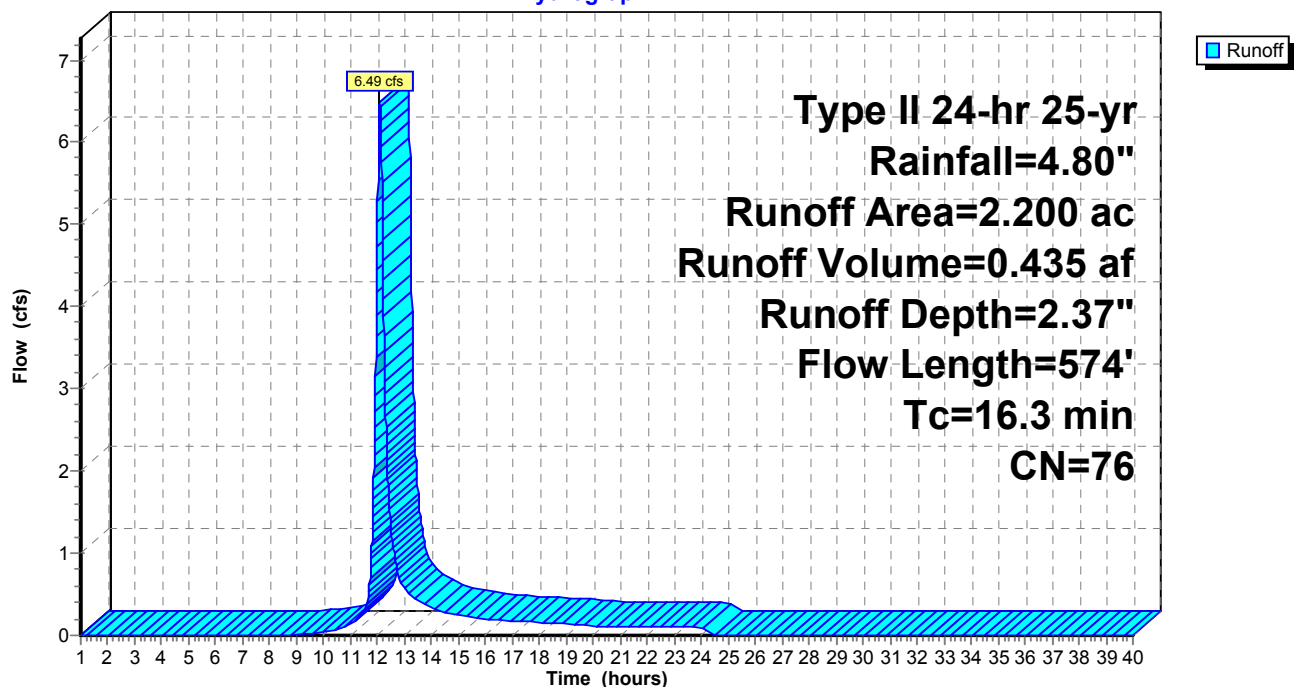
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
2.200	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	574	0.0200	0.6		Lag/CN Method,

Subcatchment W123: W123

Hydrograph



Subcatchment W124: W124

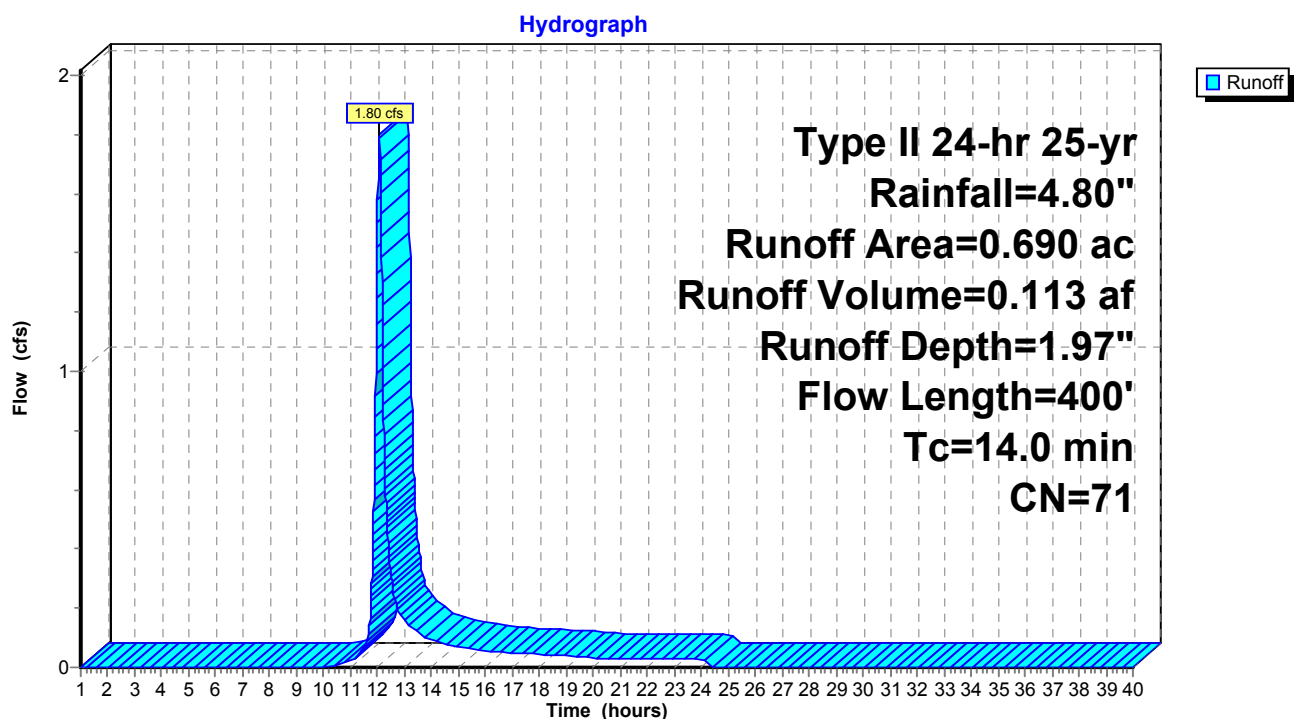
Runoff = 1.80 cfs @ 12.06 hrs, Volume= 0.113 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
0.690	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	400	0.0200	0.5		Lag/CN Method,

Subcatchment W124: W124

Subcatchment W125: W125

Runoff = 13.92 cfs @ 12.51 hrs, Volume= 1.934 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

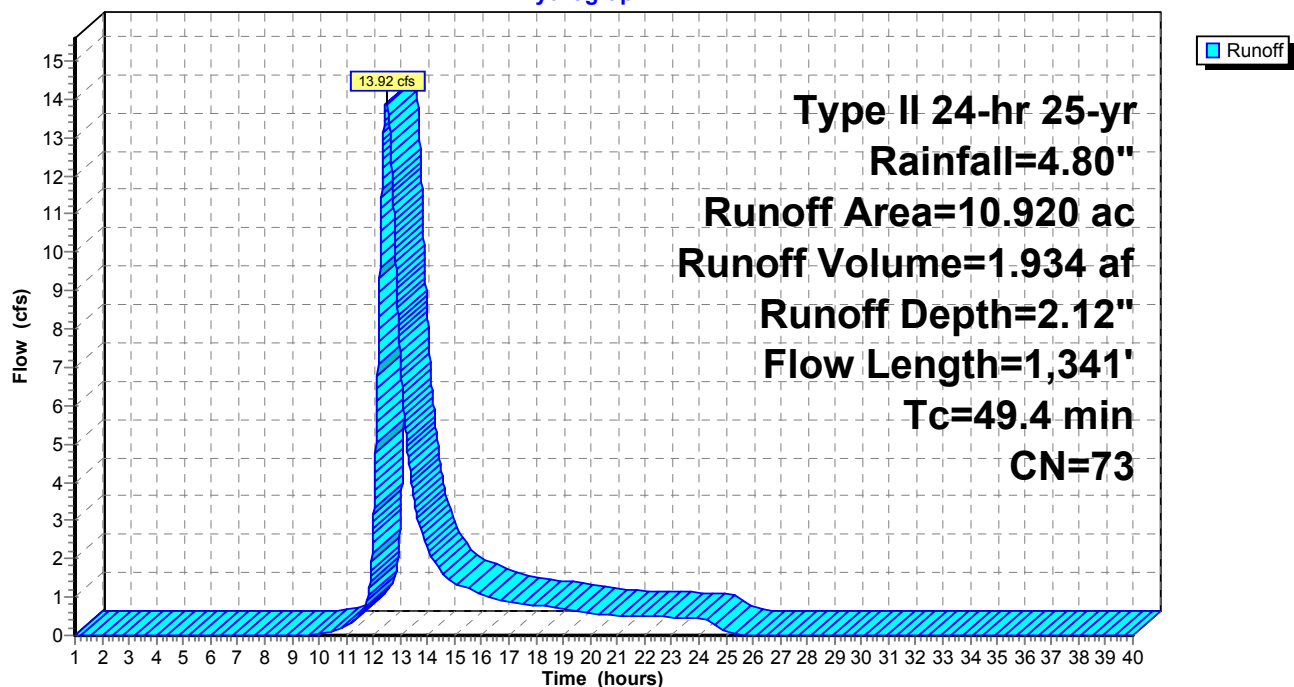
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
10.920	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.4	1,341	0.0100	0.5		Lag/CN Method,

Subcatchment W125: W125

Hydrograph



Subcatchment W126: W126

Runoff = 74.96 cfs @ 12.05 hrs, Volume= 4.780 af, Depth= 3.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

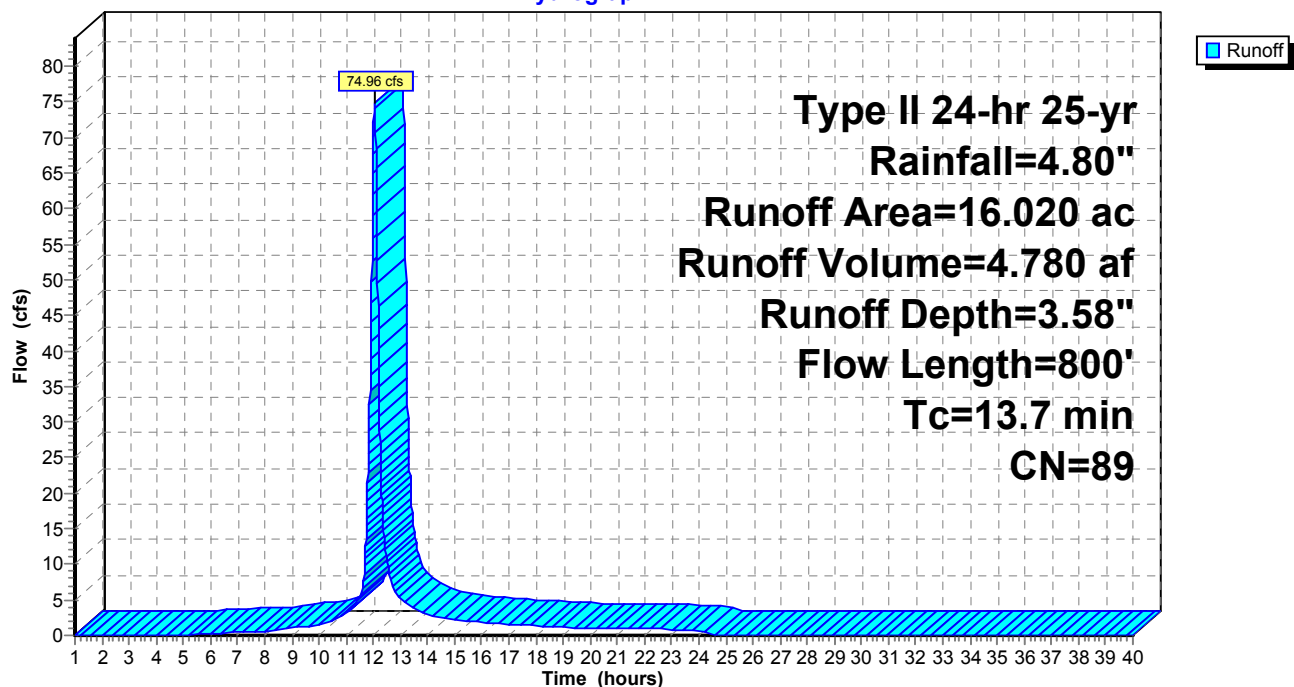
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
16.020	89	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	800	0.0200	1.0		Lag/CN Method,

Subcatchment W126: W126

Hydrograph



Subcatchment W128: W128

Runoff = 15.89 cfs @ 12.07 hrs, Volume= 1.010 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

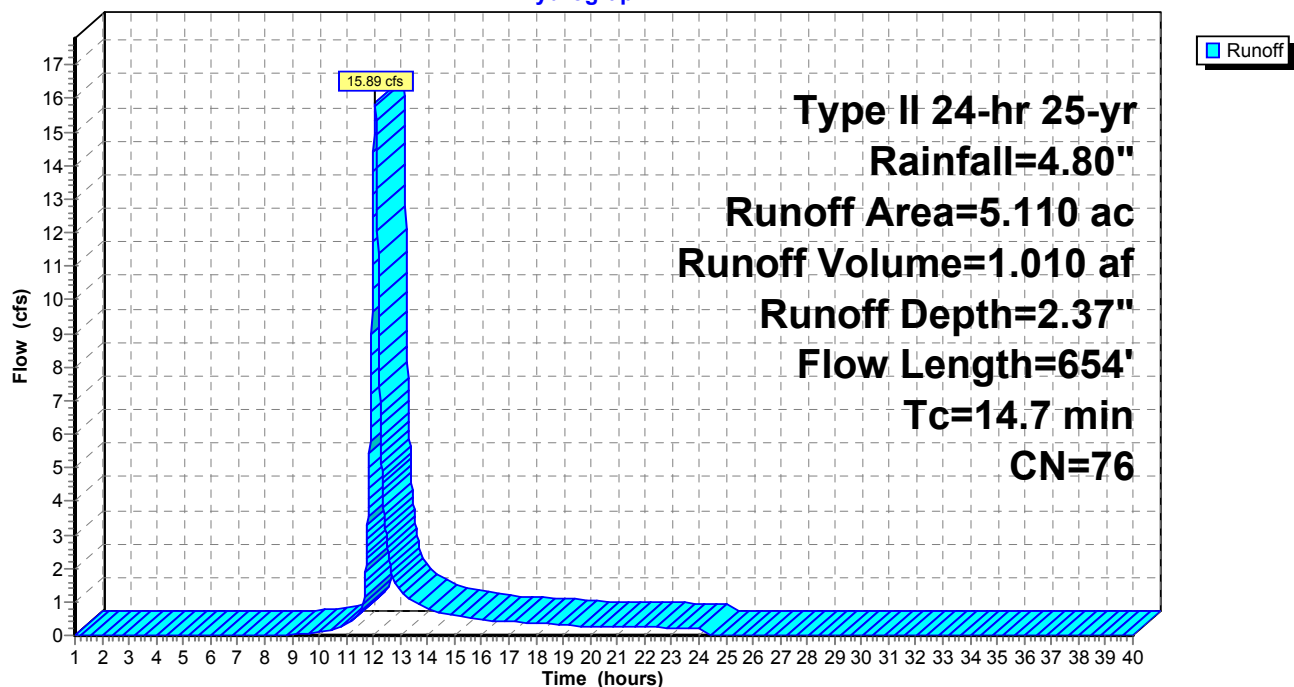
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.110	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	654	0.0300	0.7		Lag/CN Method,

Subcatchment W128: W128

Hydrograph



Subcatchment W129: W129

Runoff = 59.64 cfs @ 12.12 hrs, Volume= 4.406 af, Depth= 2.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

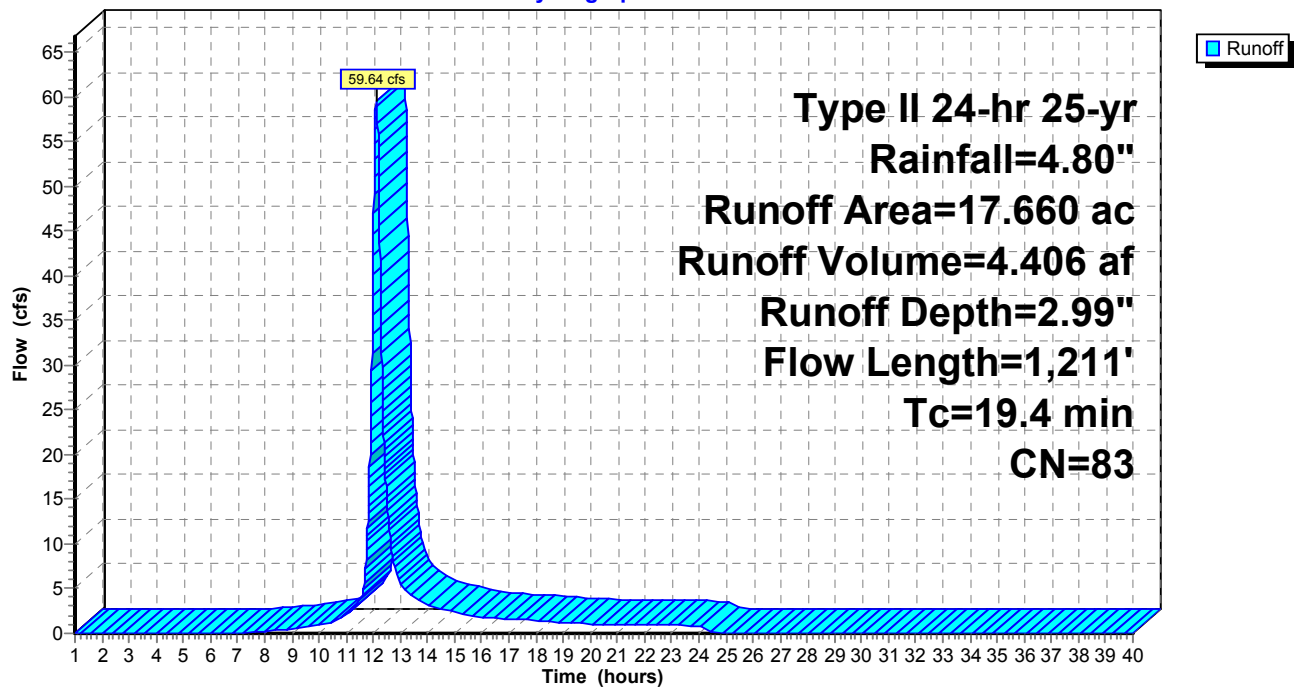
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
17.660	83	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.4	1,211	0.0300	1.0		Lag/CN Method,

Subcatchment W129: W129

Hydrograph



Subcatchment W13: W13

Runoff = 2.26 cfs @ 11.91 hrs, Volume= 0.088 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

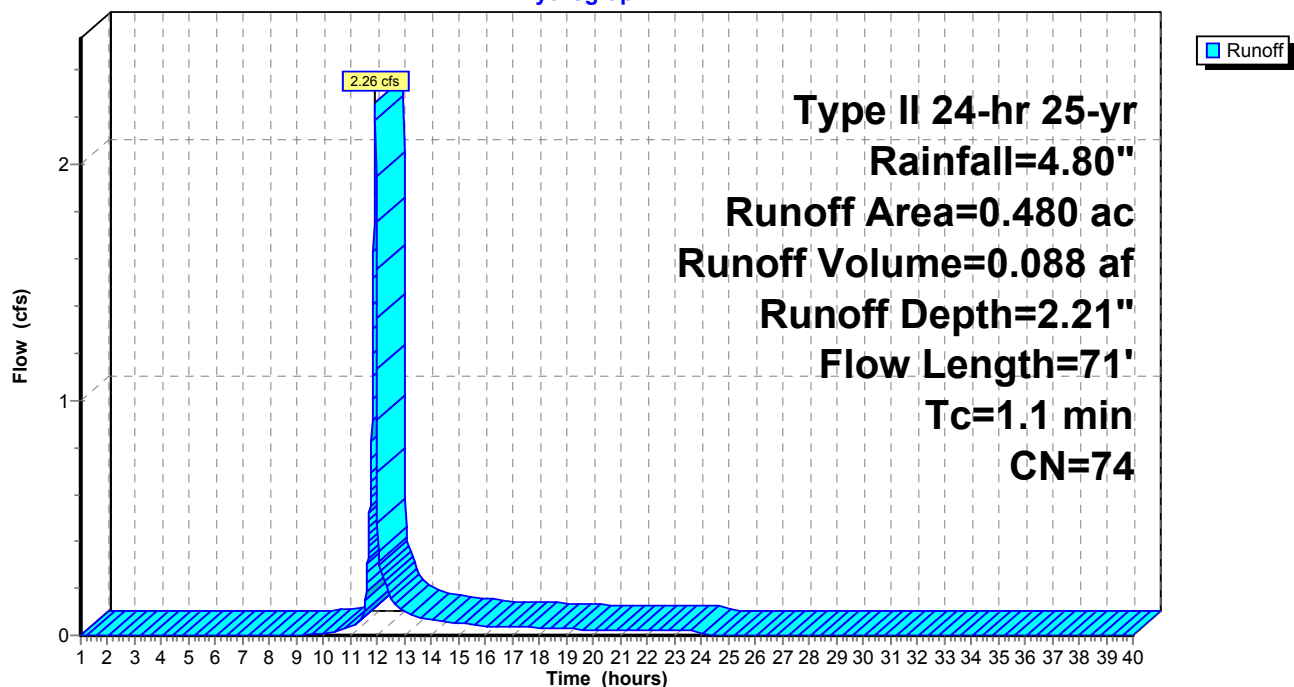
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
0.480	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	71	0.1700	1.1		Lag/CN Method,

Subcatchment W13: W13

Hydrograph



Subcatchment W134: W134

Runoff = 34.53 cfs @ 12.02 hrs, Volume= 1.960 af, Depth= 3.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

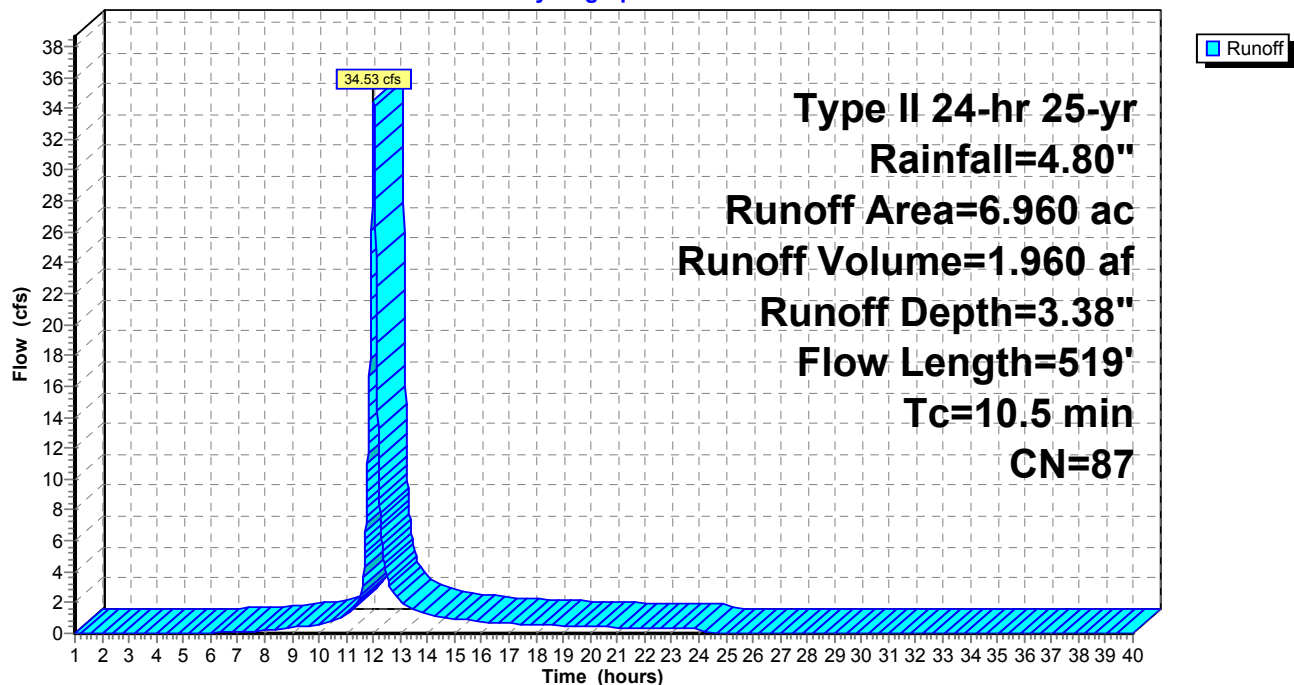
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
6.960	87	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	519	0.0200	0.8		Lag/CN Method,

Subcatchment W134: W134

Hydrograph



Subcatchment W135: W135

Runoff = 35.03 cfs @ 12.44 hrs, Volume= 4.416 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

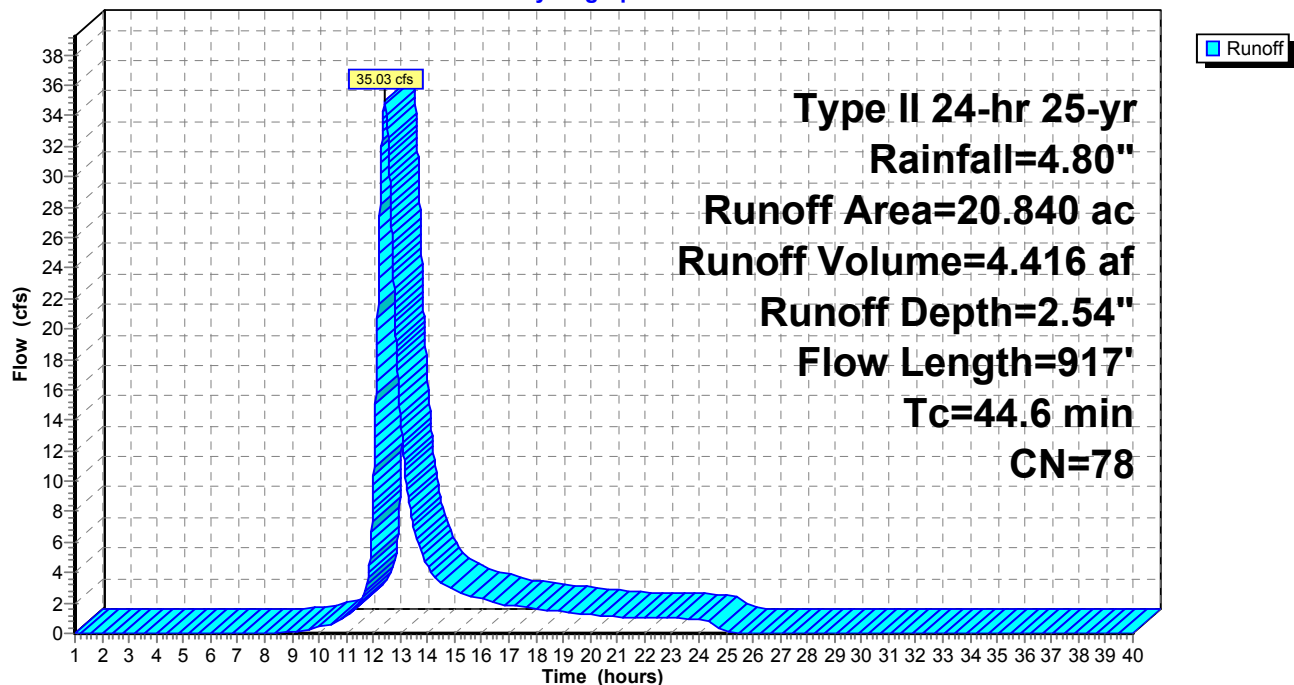
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
20.840	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.6	917	0.0050	0.3		Lag/CN Method,

Subcatchment W135: W135

Hydrograph



Subcatchment w136: w136

Runoff = 9.07 cfs @ 12.00 hrs, Volume= 0.468 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

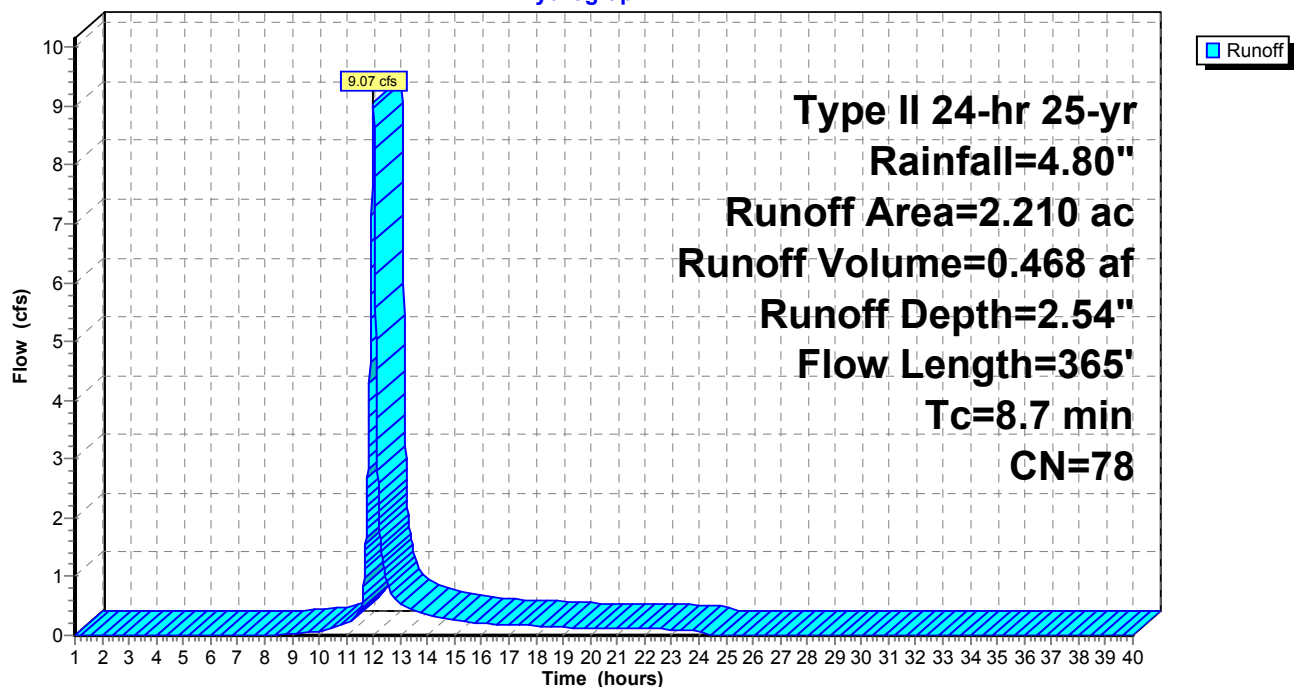
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
2.210	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	365	0.0300	0.7		Lag/CN Method,

Subcatchment w136: w136

Hydrograph



Subcatchment W137: W137

Runoff = 24.70 cfs @ 12.17 hrs, Volume= 2.039 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

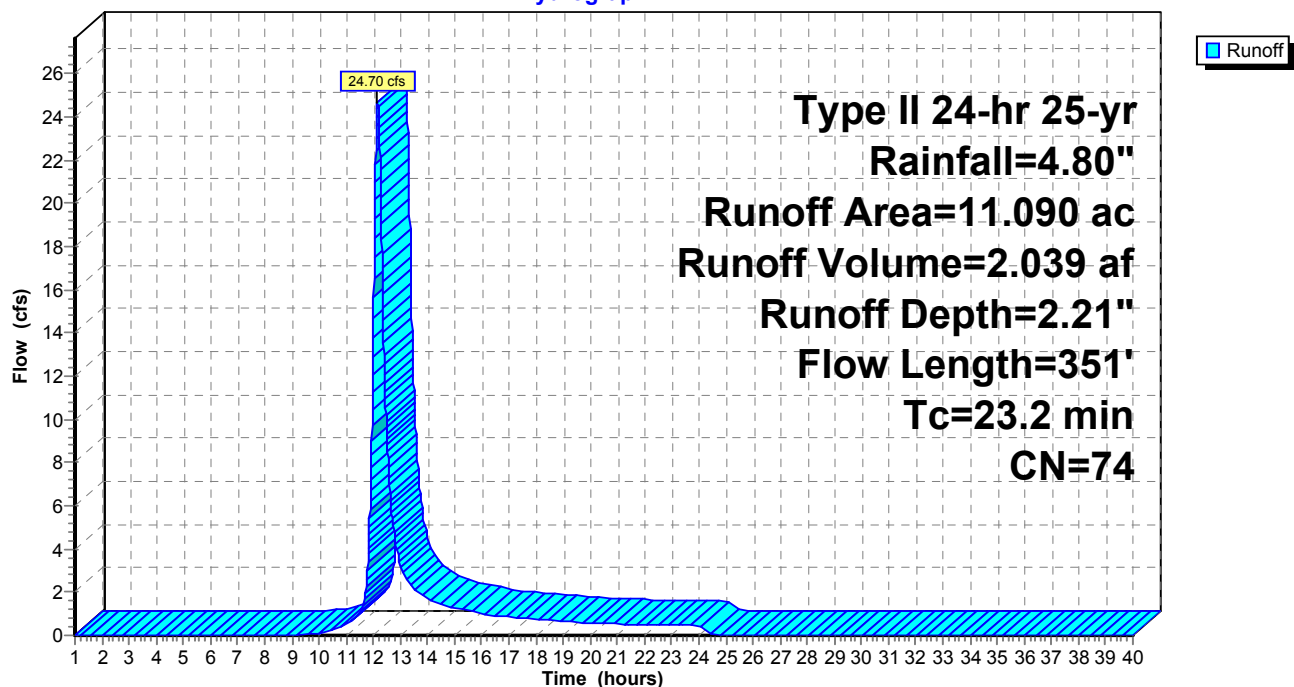
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
11.090	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	351	0.0050	0.3		Lag/CN Method,

Subcatchment W137: W137

Hydrograph



Subcatchment W138: W138

Runoff = 14.29 cfs @ 12.76 hrs, Volume= 2.619 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

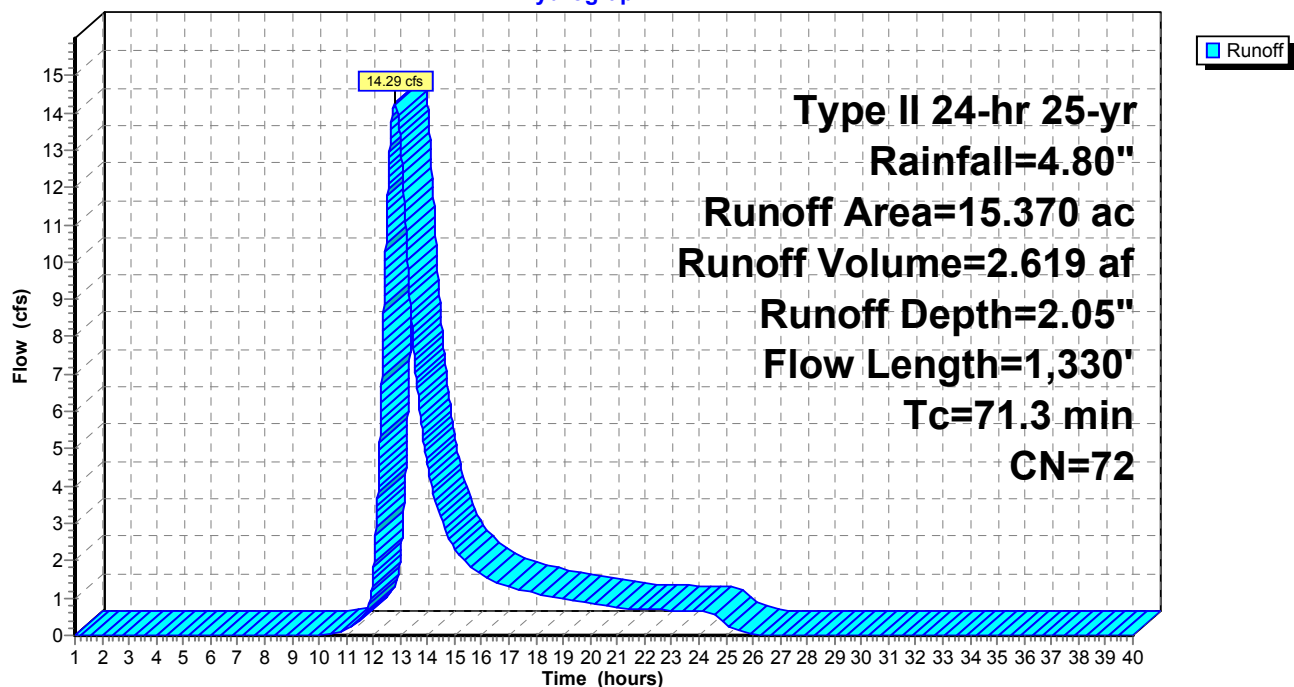
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
15.370	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.3	1,330	0.0050	0.3		Lag/CN Method,

Subcatchment W138: W138

Hydrograph



Subcatchment W139: W139

Runoff = 37.57 cfs @ 12.31 hrs, Volume= 4.135 af, Depth= 2.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

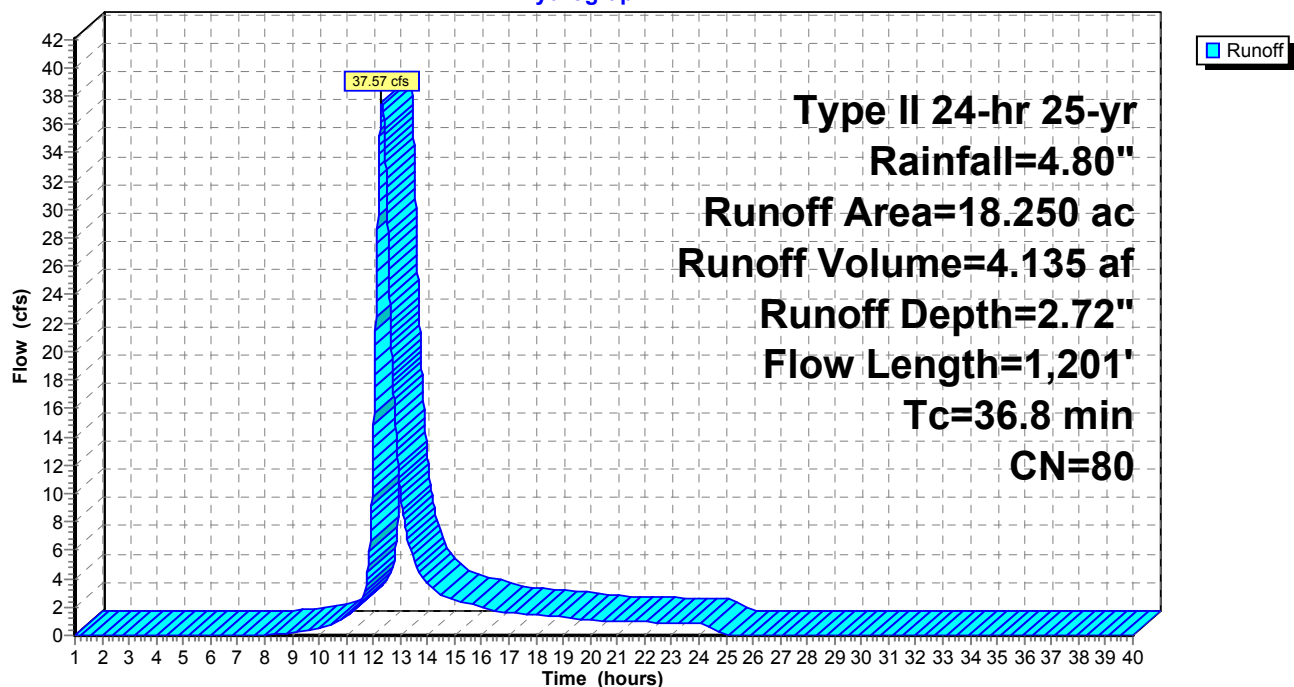
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.250	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	1,201	0.0100	0.5		Lag/CN Method,

Subcatchment W139: W139

Hydrograph



Subcatchment W14: W14

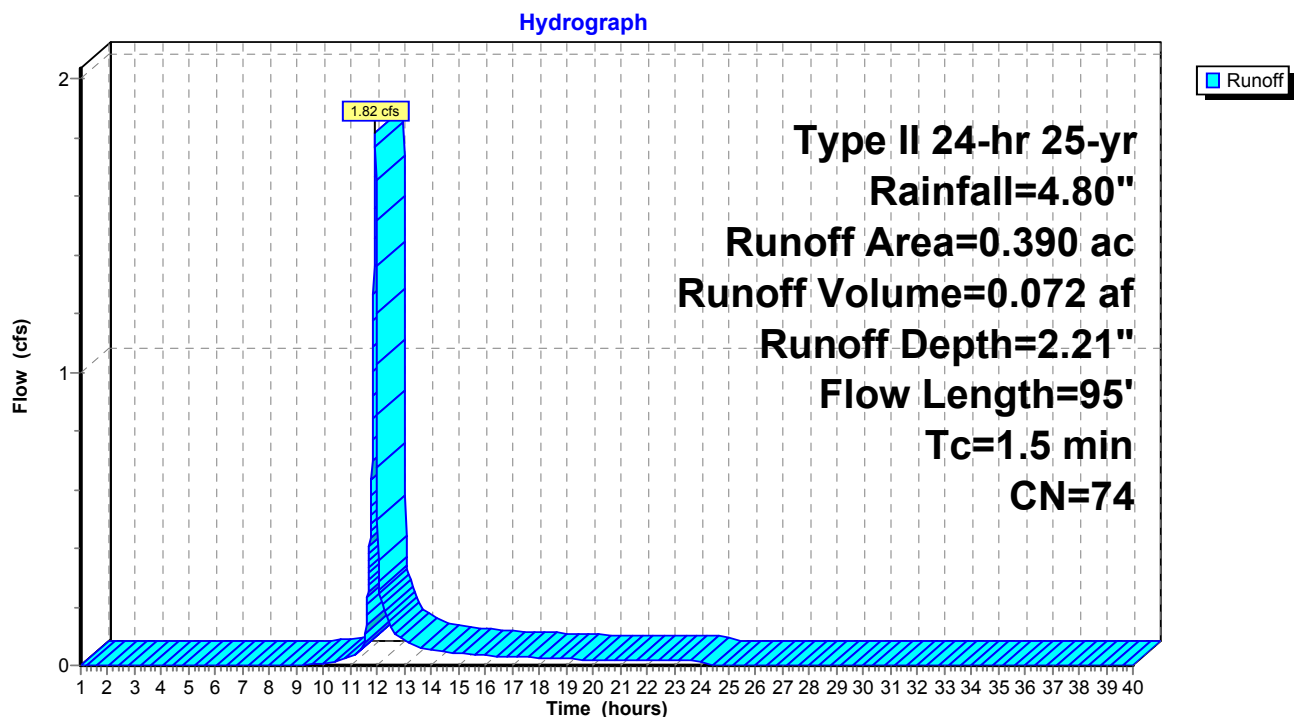
Runoff = 1.82 cfs @ 11.92 hrs, Volume= 0.072 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
0.390	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	95	0.1500	1.1		Lag/CN Method,

Subcatchment W14: W14

Subcatchment W140: W140

Runoff = 2.39 cfs @ 12.04 hrs, Volume= 0.162 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

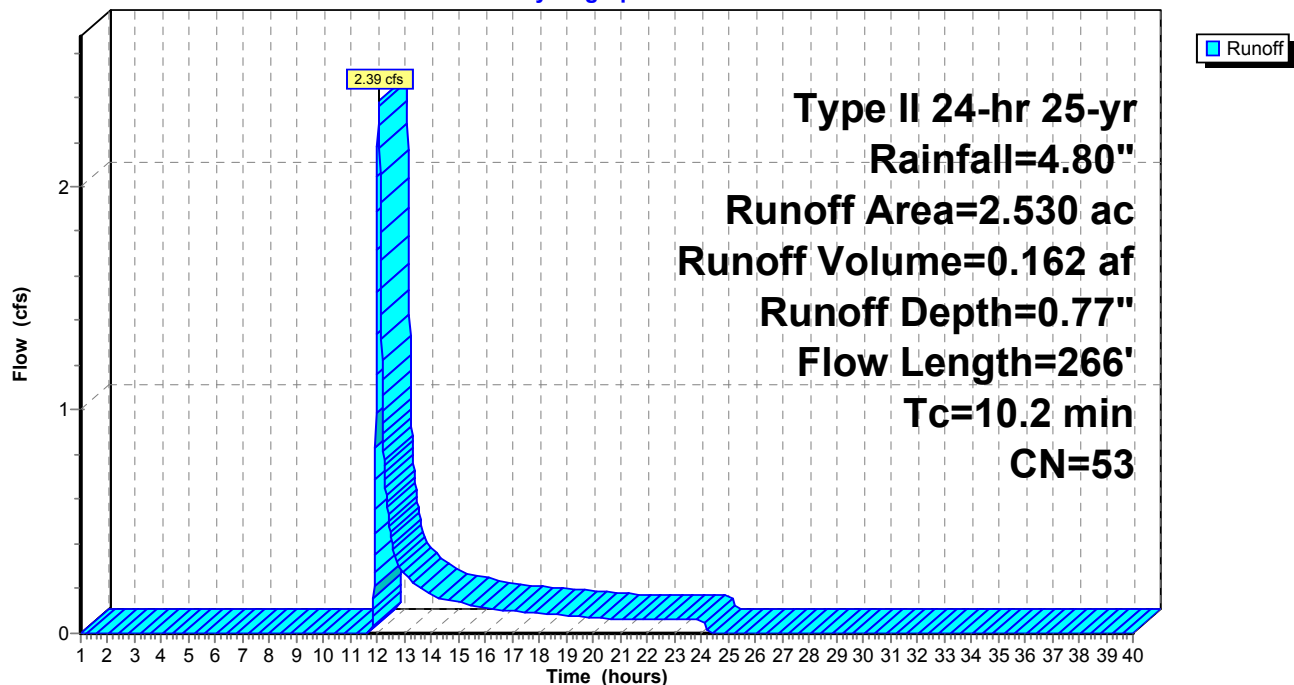
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
2.530	53	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	266	0.0500	0.4		Lag/CN Method,

Subcatchment W140: W140

Hydrograph



Subcatchment W141: W141

Runoff = 58.88 cfs @ 12.09 hrs, Volume= 3.986 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

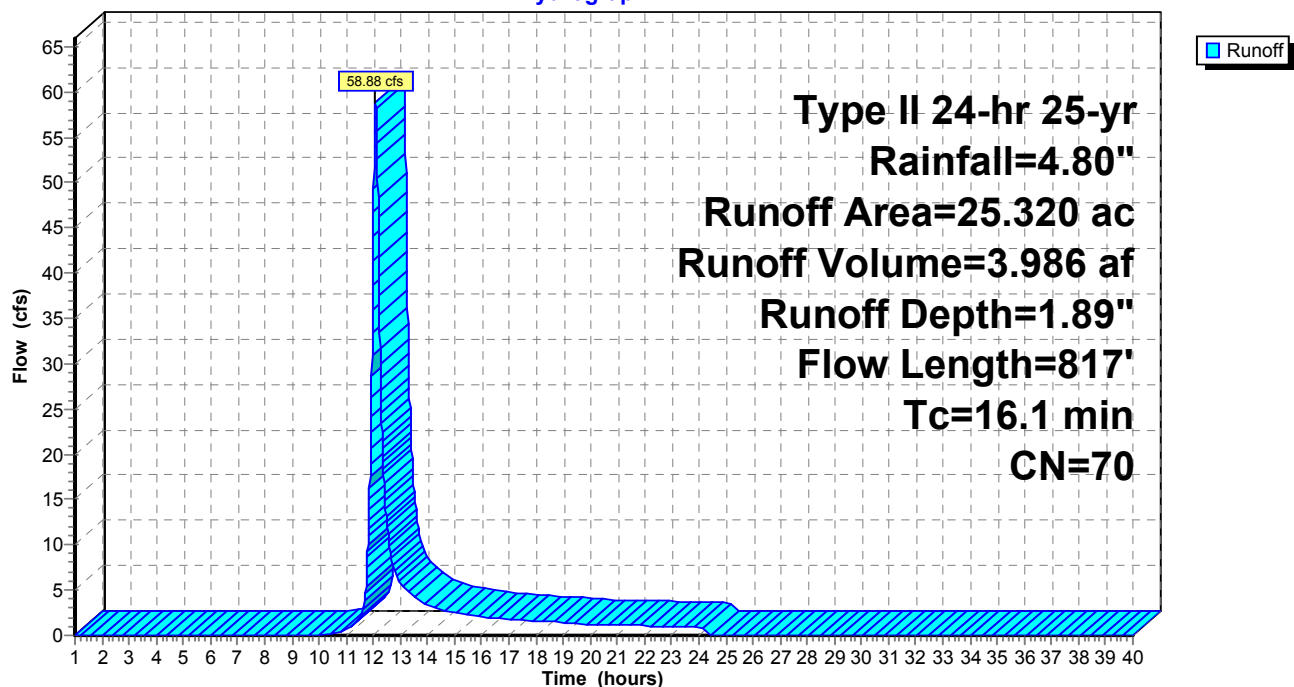
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
25.320	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	817	0.0500	0.8		Lag/CN Method,

Subcatchment W141: W141

Hydrograph



Subcatchment W142: W142

Runoff = 28.98 cfs @ 12.09 hrs, Volume= 1.973 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

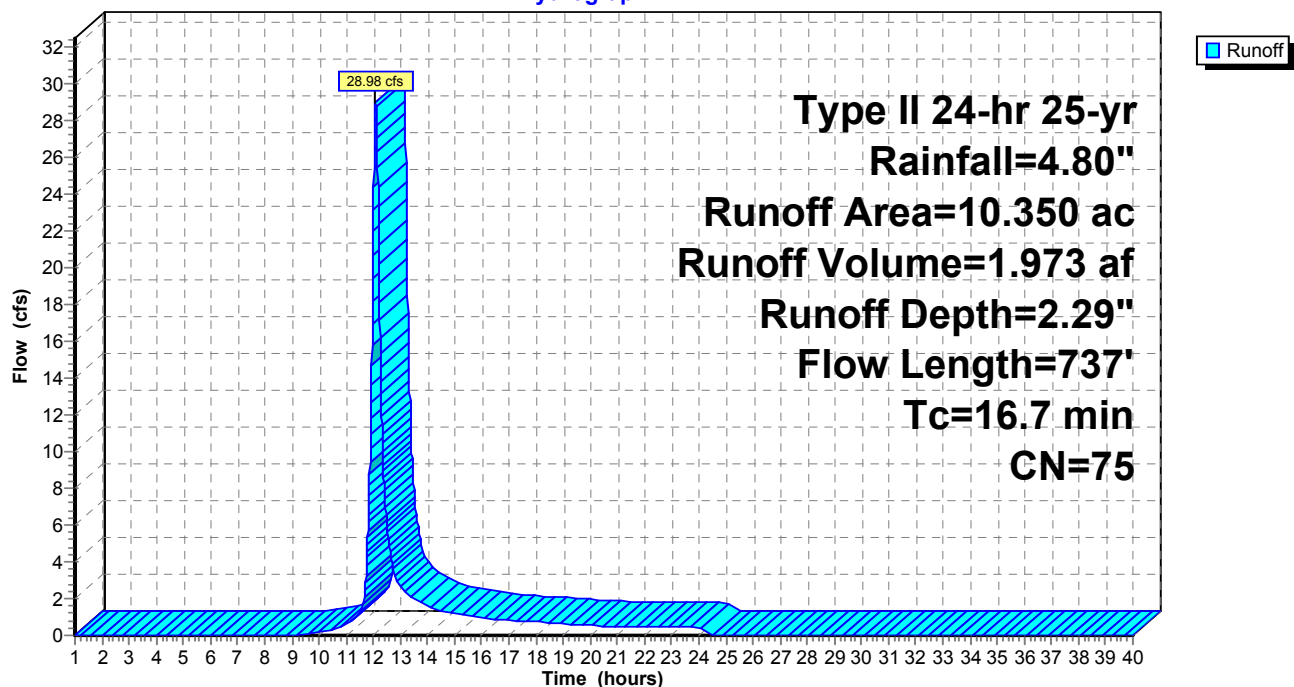
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
10.350	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	737	0.0300	0.7		Lag/CN Method,

Subcatchment W142: W142

Hydrograph



Subcatchment W143: W143

Runoff = 15.28 cfs @ 12.08 hrs, Volume= 1.017 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

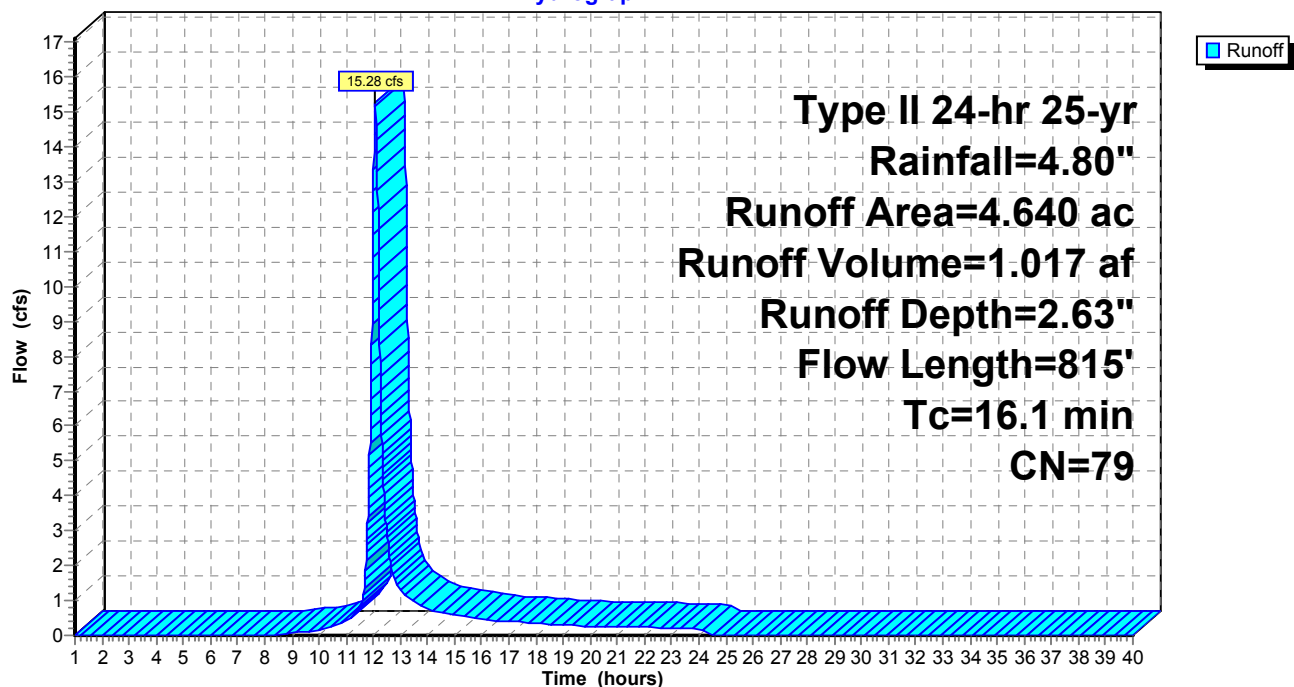
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.640	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	815	0.0300	0.8		Lag/CN Method,

Subcatchment W143: W143

Hydrograph



Subcatchment W144: W144

Runoff = 12.43 cfs @ 12.08 hrs, Volume= 0.809 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

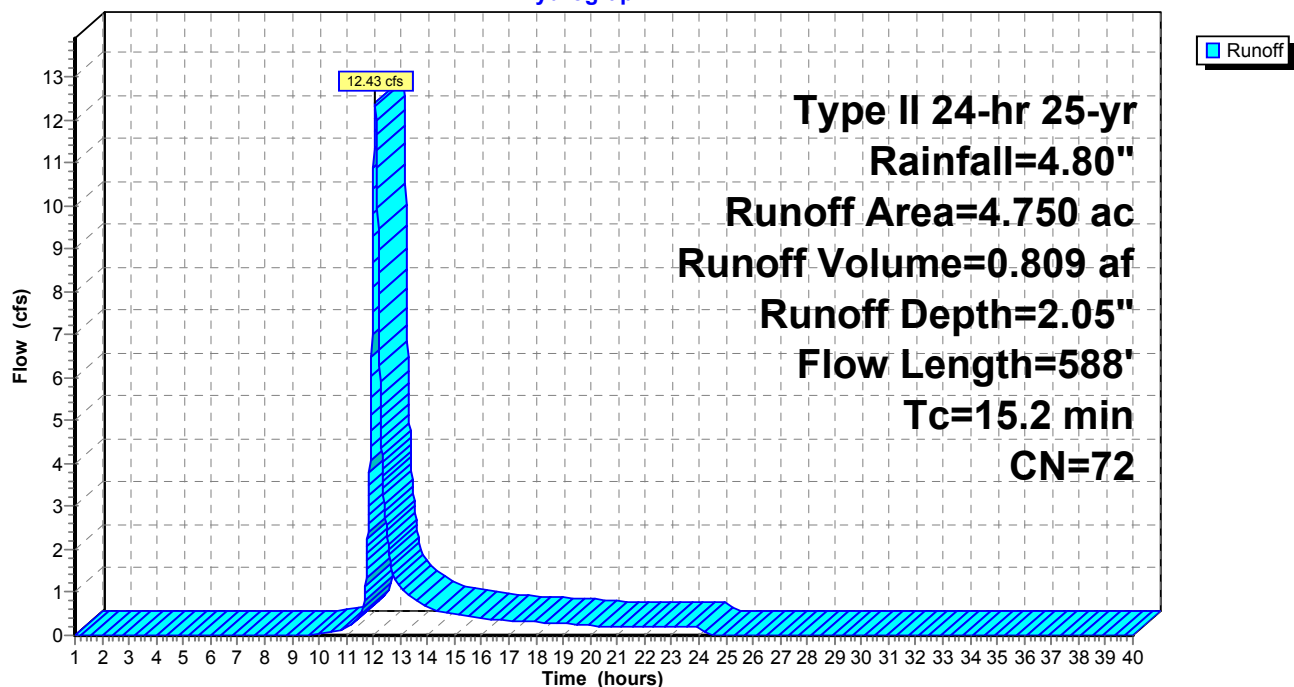
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.750	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	588	0.0300	0.6		Lag/CN Method,

Subcatchment W144: W144

Hydrograph



Subcatchment W145: W145

Runoff = 28.55 cfs @ 12.15 hrs, Volume= 2.267 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

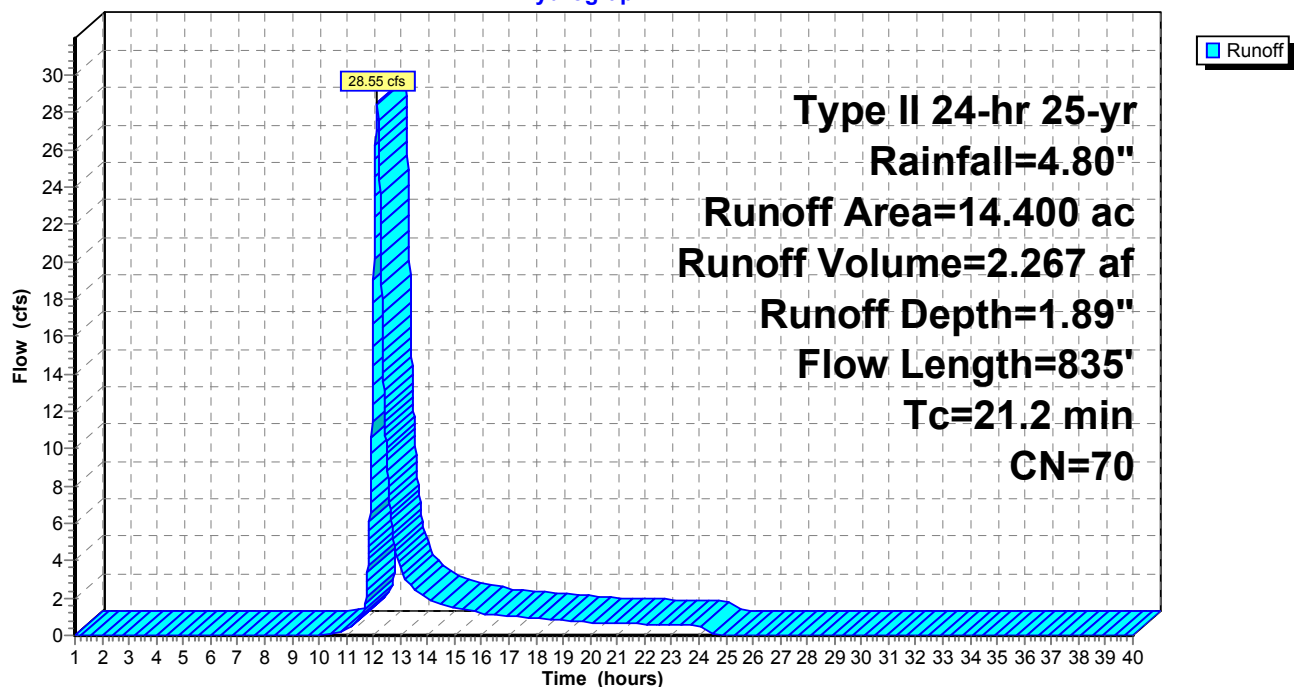
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
14.400	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	835	0.0300	0.7		Lag/CN Method,

Subcatchment W145: W145

Hydrograph



Subcatchment W146: W146

Runoff = 41.46 cfs @ 12.19 hrs, Volume= 3.588 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

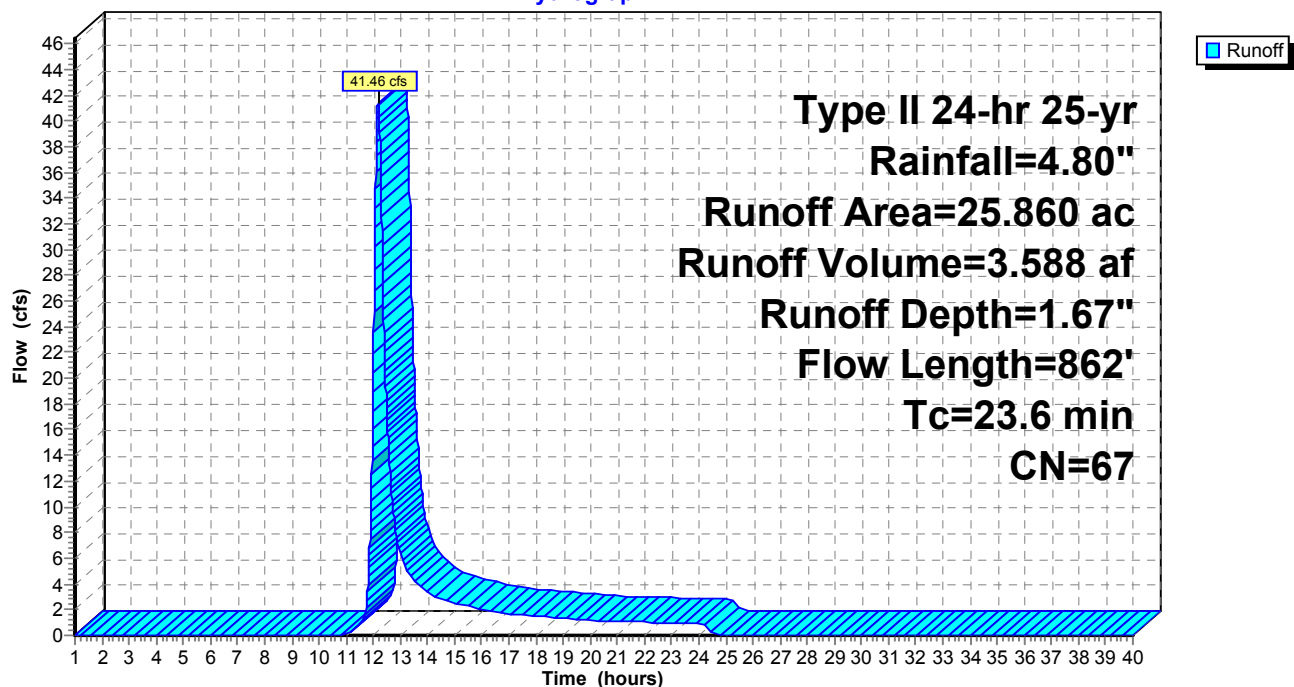
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
25.860	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.6	862	0.0300	0.6		Lag/CN Method,

Subcatchment W146: W146

Hydrograph



Subcatchment W150: W150

Runoff = 44.37 cfs @ 12.23 hrs, Volume= 4.492 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

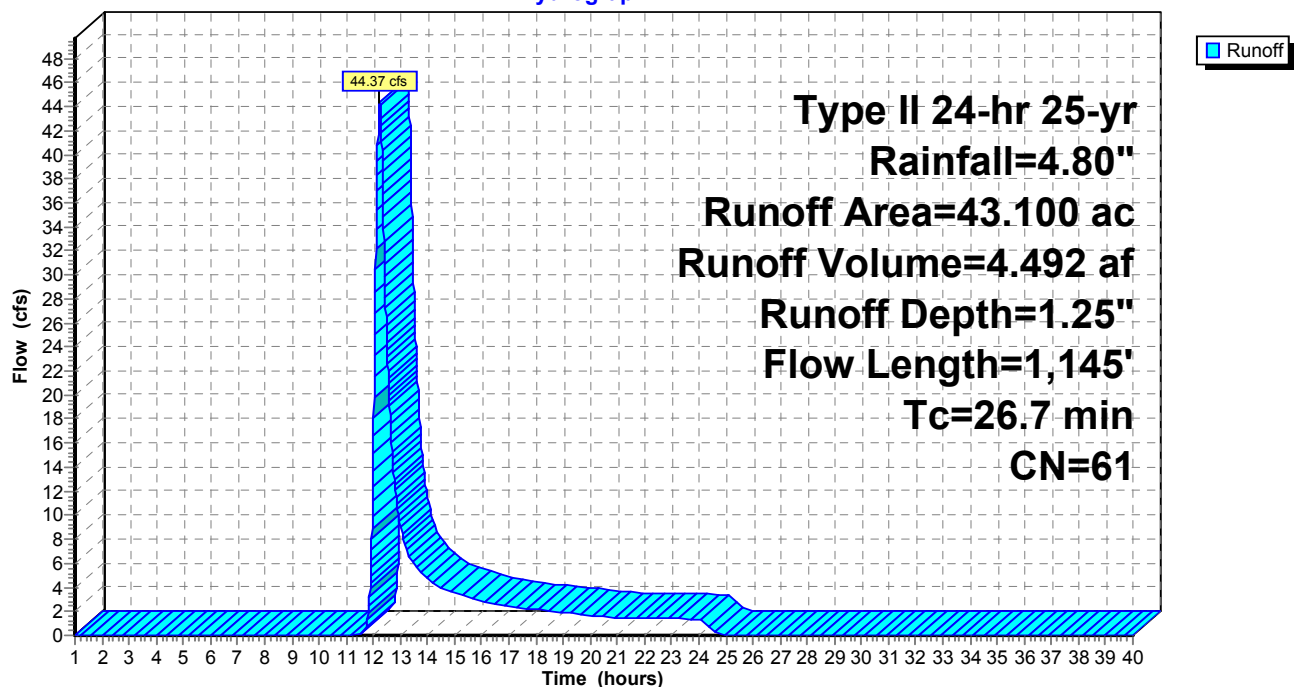
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
43.100	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,145	0.0500	0.7		Lag/CN Method,

Subcatchment W150: W150

Hydrograph



Subcatchment W2: W2

Runoff = 9.69 cfs @ 11.97 hrs, Volume= 0.577 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

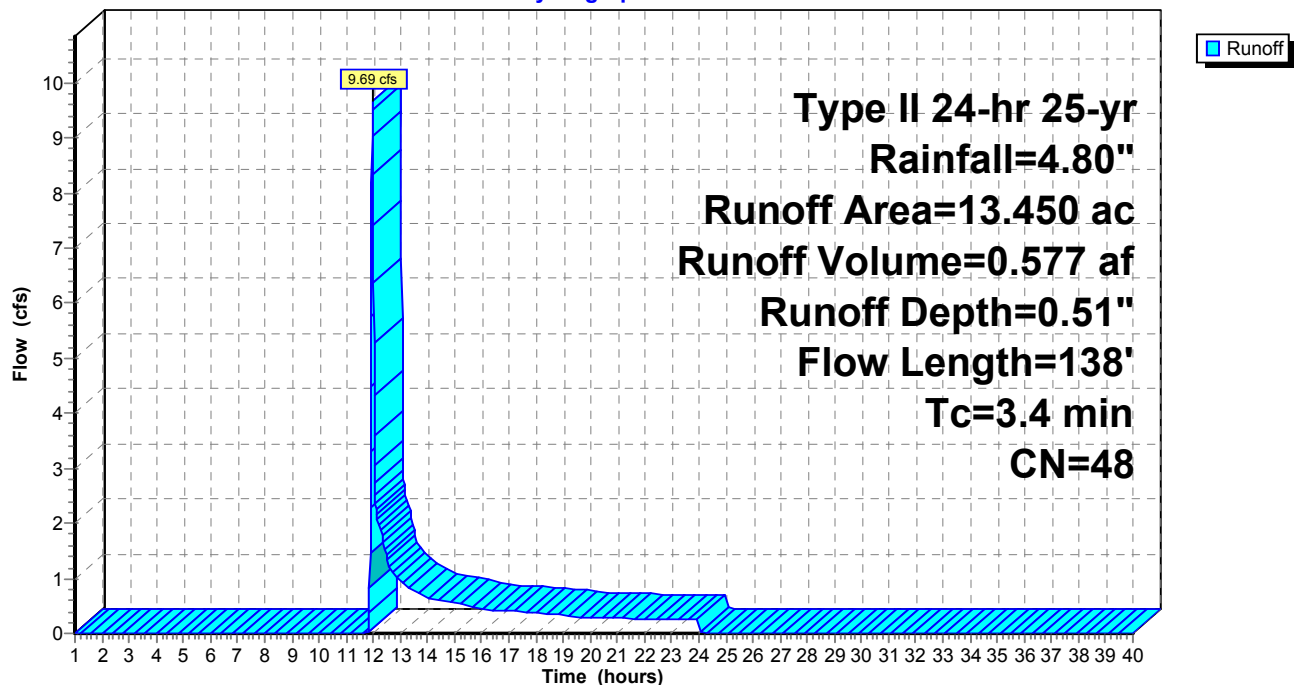
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
13.450	48	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	138	0.2000	0.7		Lag/CN Method,

Subcatchment W2: W2

Hydrograph



Subcatchment W30: W30

Runoff = 56.16 cfs @ 11.97 hrs, Volume= 2.592 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

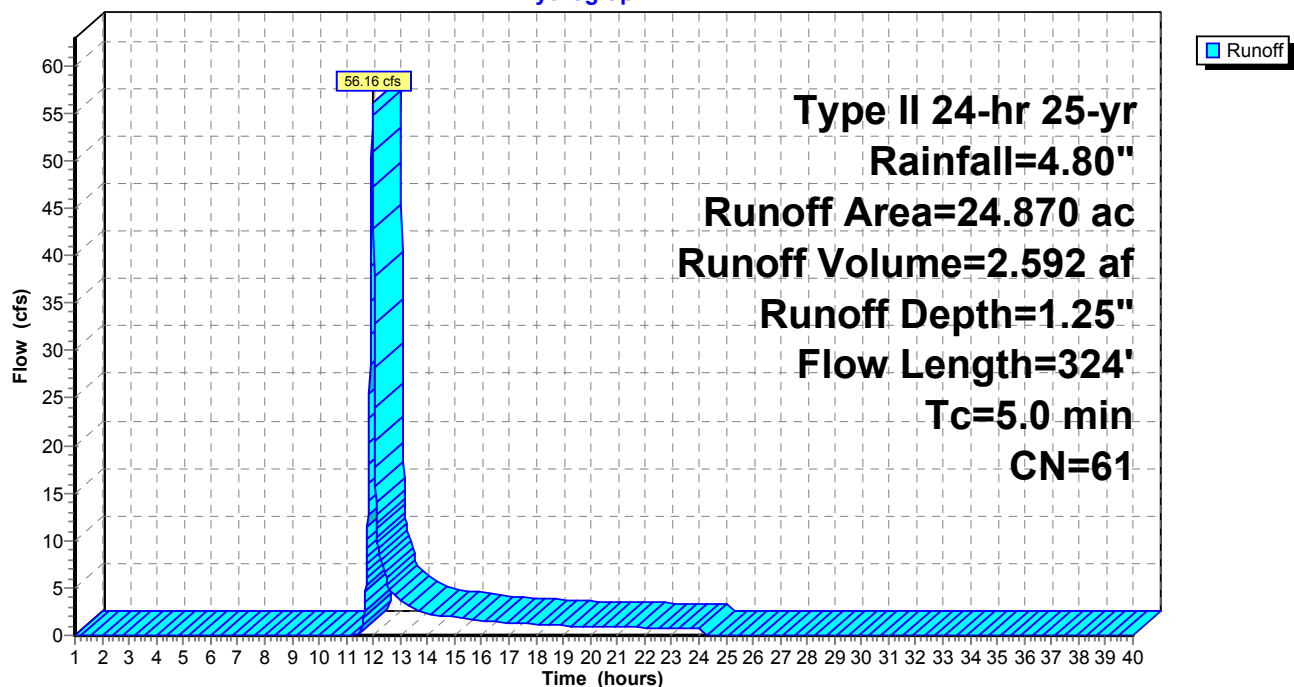
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
24.870	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	324	0.1900	1.1		Lag/CN Method,

Subcatchment W30: W30

Hydrograph



Subcatchment W31: W31

Runoff = 97.90 cfs @ 12.06 hrs, Volume= 6.033 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

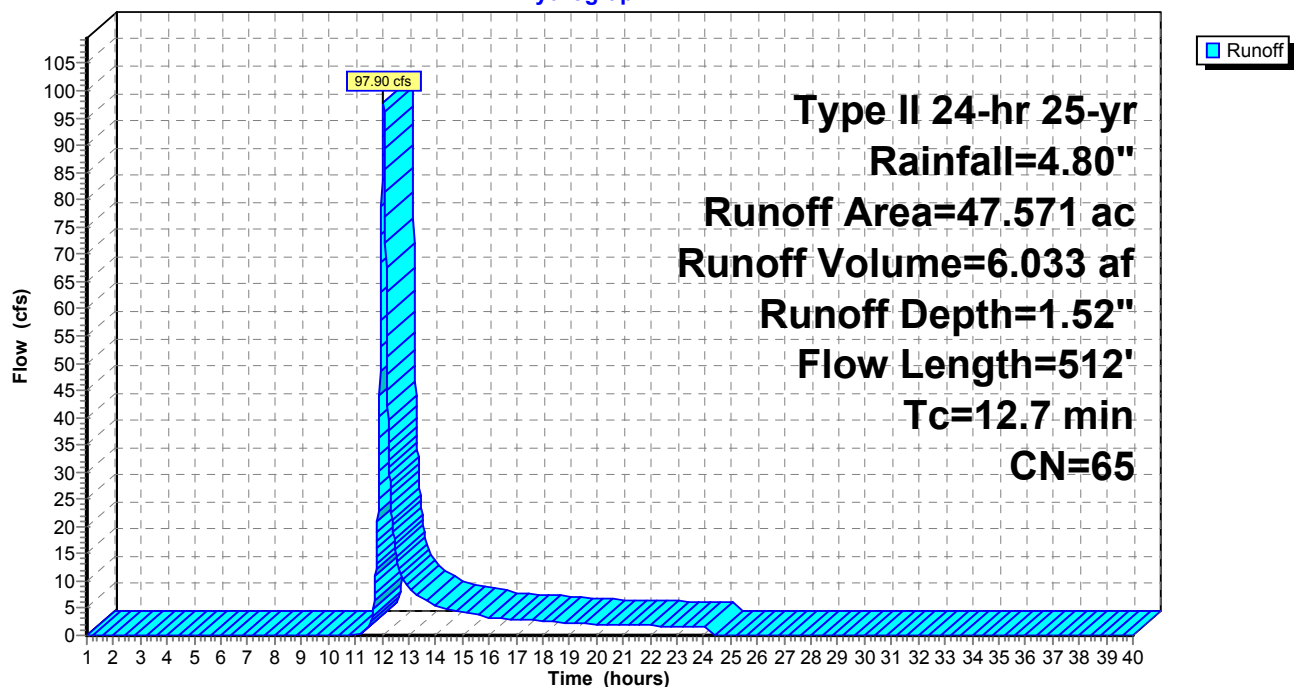
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
47.571	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	512	0.0500	0.7		Lag/CN Method,

Subcatchment W31: W31

Hydrograph



Subcatchment W32: W32

Runoff = 154.96 cfs @ 12.02 hrs, Volume= 8.277 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

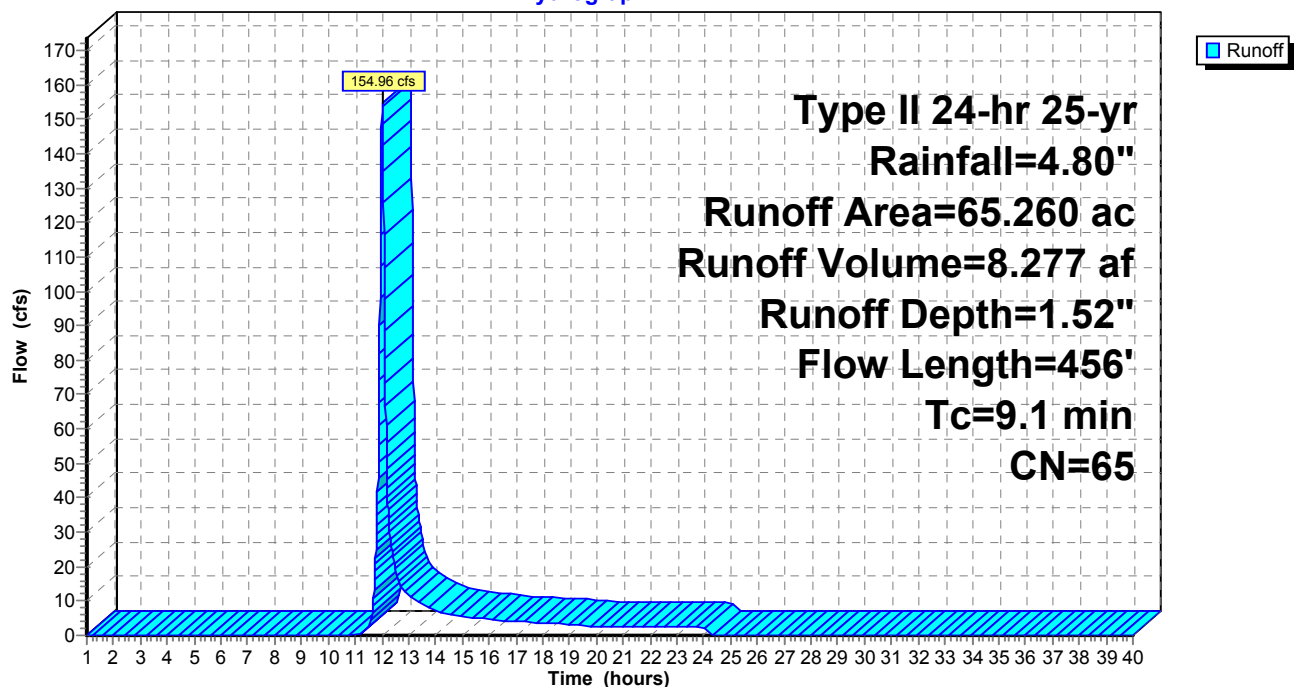
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
65.260	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	456	0.0800	0.8		Lag/CN Method,

Subcatchment W32: W32

Hydrograph



Subcatchment W33: W33

Runoff = 26.54 cfs @ 11.95 hrs, Volume= 1.168 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

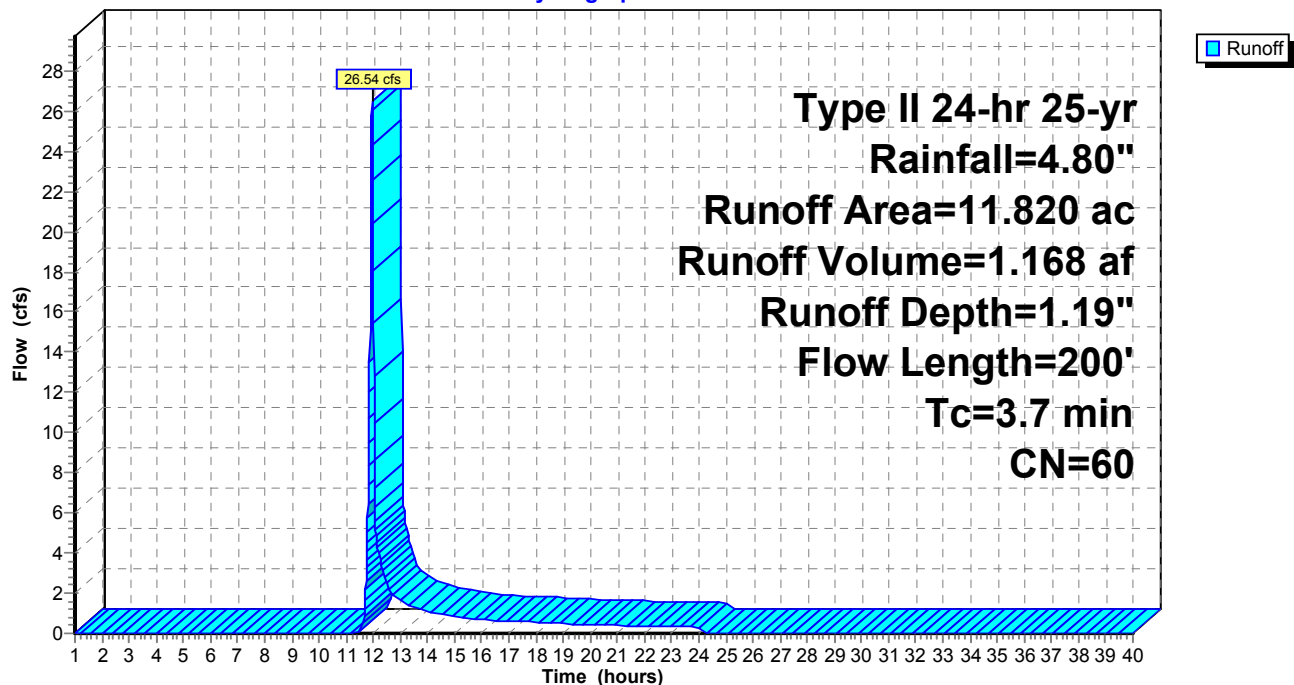
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
11.820	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	200	0.1700	0.9		Lag/CN Method,

Subcatchment W33: W33

Hydrograph



Subcatchment W34: W34

Runoff = 22.65 cfs @ 12.01 hrs, Volume= 1.227 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

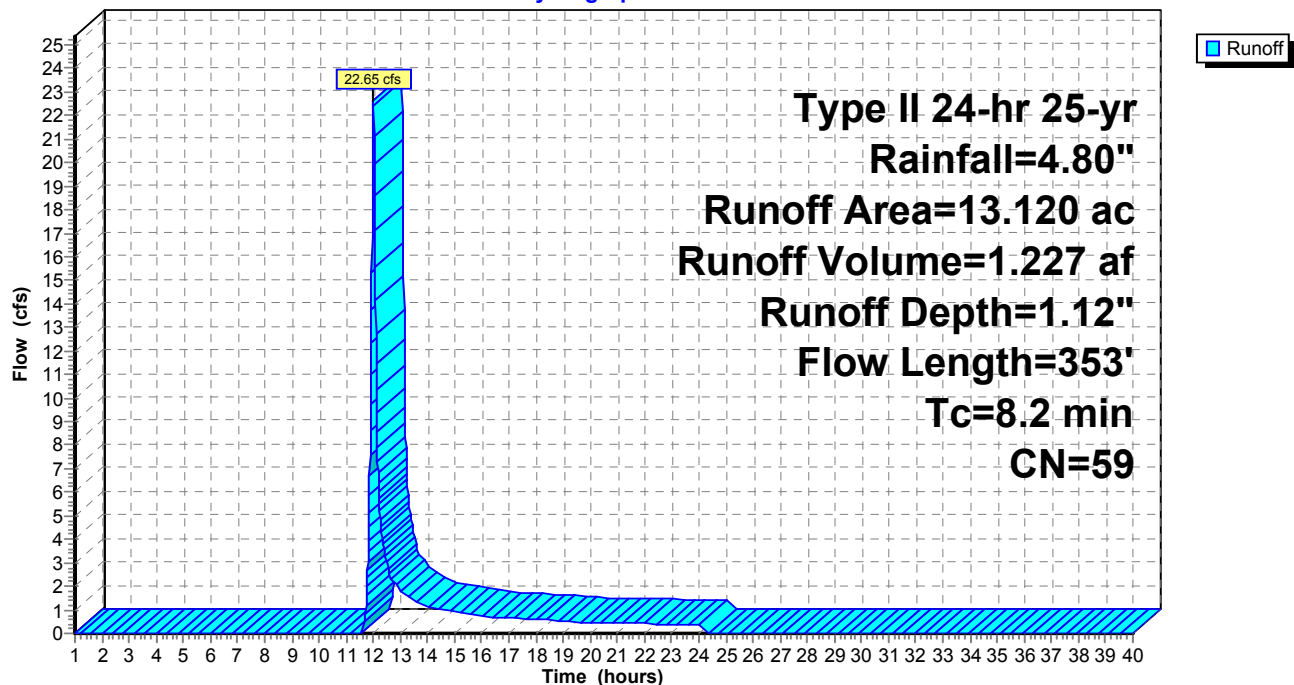
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
13.120	59	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	353	0.0900	0.7		Lag/CN Method,

Subcatchment W34: W34

Hydrograph



Subcatchment W35: W35

Runoff = 11.48 cfs @ 11.96 hrs, Volume= 0.514 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

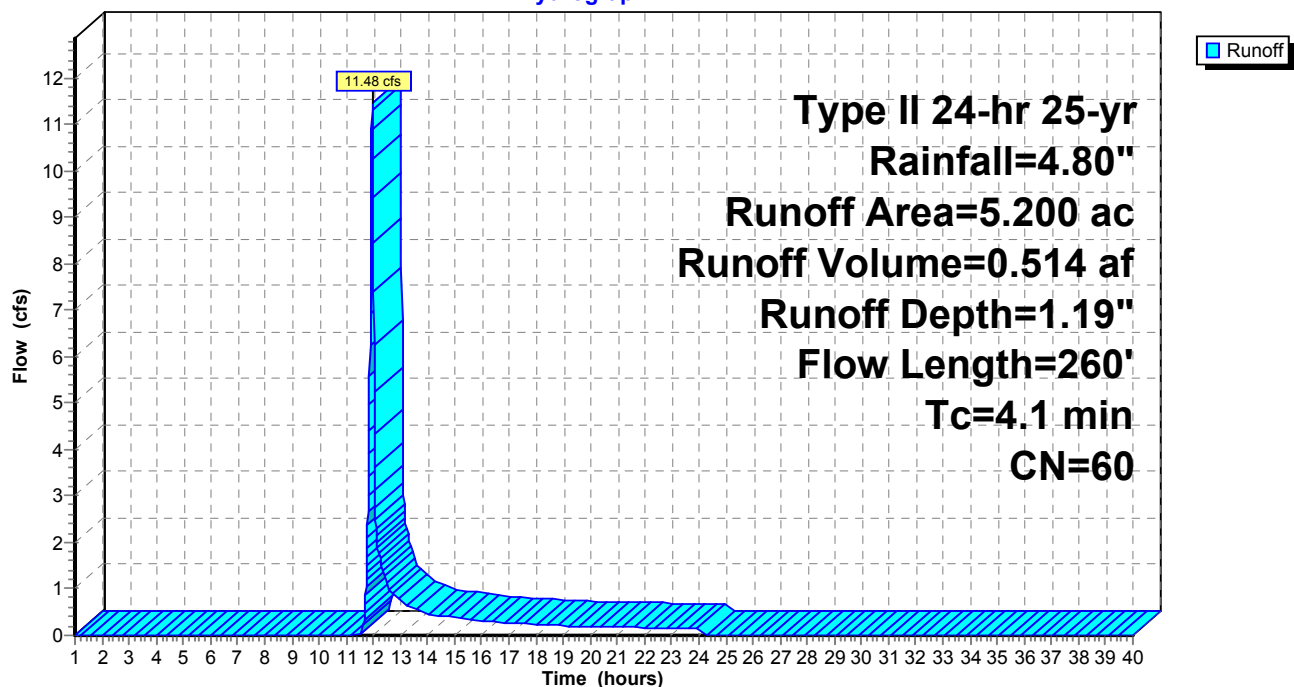
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.200	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	260	0.2100	1.1		Lag/CN Method,

Subcatchment W35: W35

Hydrograph



Subcatchment W36: W36

Runoff = 10.50 cfs @ 11.99 hrs, Volume= 0.507 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

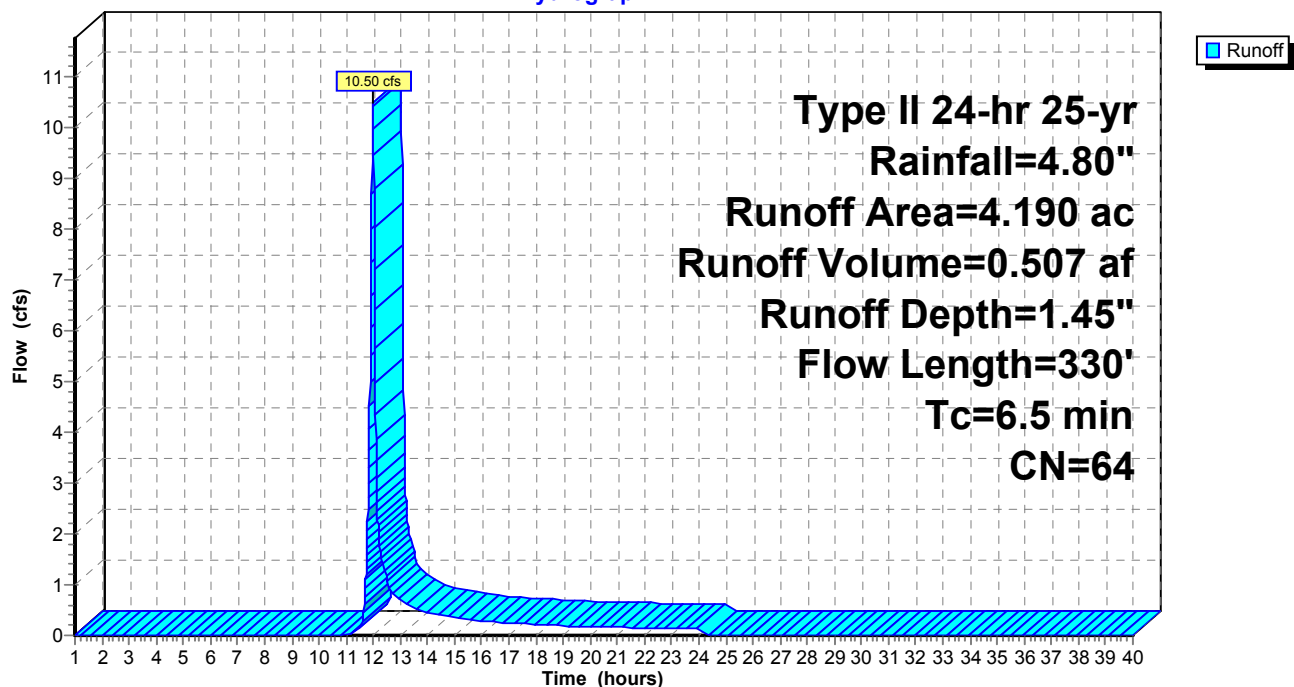
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.190	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	330	0.1000	0.9		Lag/CN Method,

Subcatchment W36: W36

Hydrograph



Subcatchment W37: W37

Runoff = 6.59 cfs @ 12.02 hrs, Volume= 0.374 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

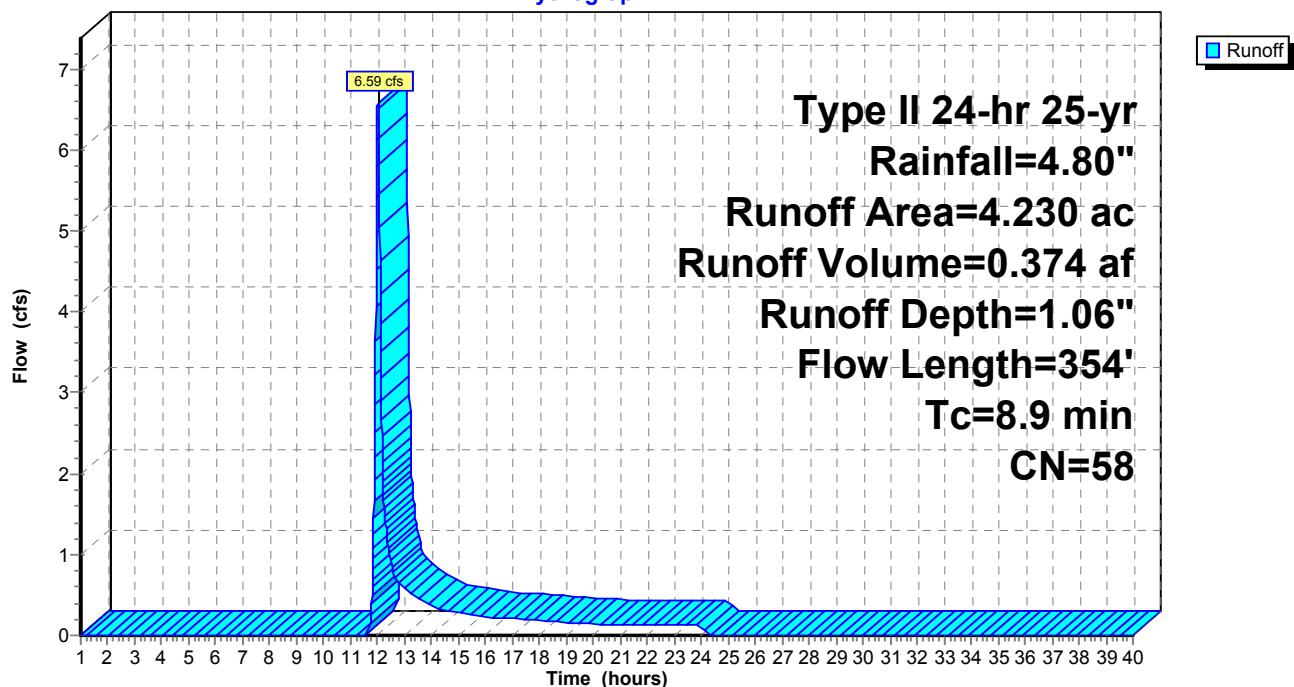
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.230	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	354	0.0800	0.7		Lag/CN Method,

Subcatchment W37: W37

Hydrograph



Subcatchment W38: W38

Runoff = 38.07 cfs @ 11.96 hrs, Volume= 1.684 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

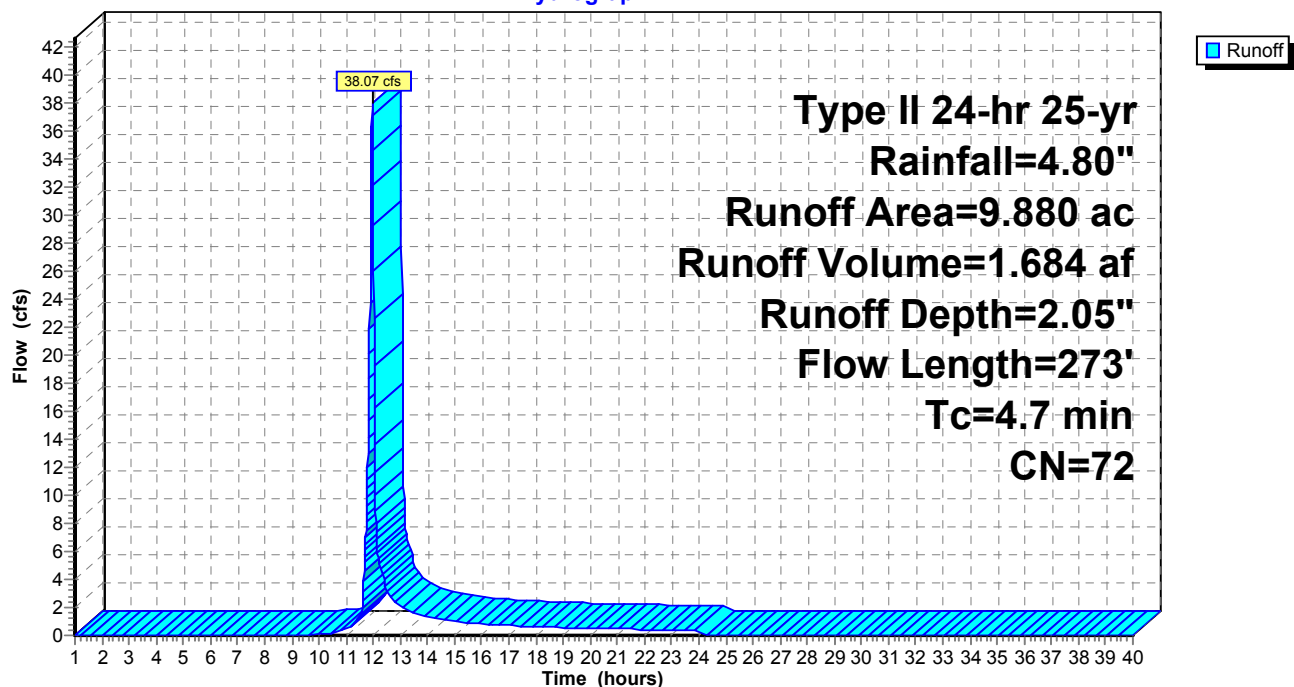
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.880	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	273	0.0900	1.0		Lag/CN Method,

Subcatchment W38: W38

Hydrograph



Subcatchment W39: W39

Runoff = 23.99 cfs @ 12.02 hrs, Volume= 1.328 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

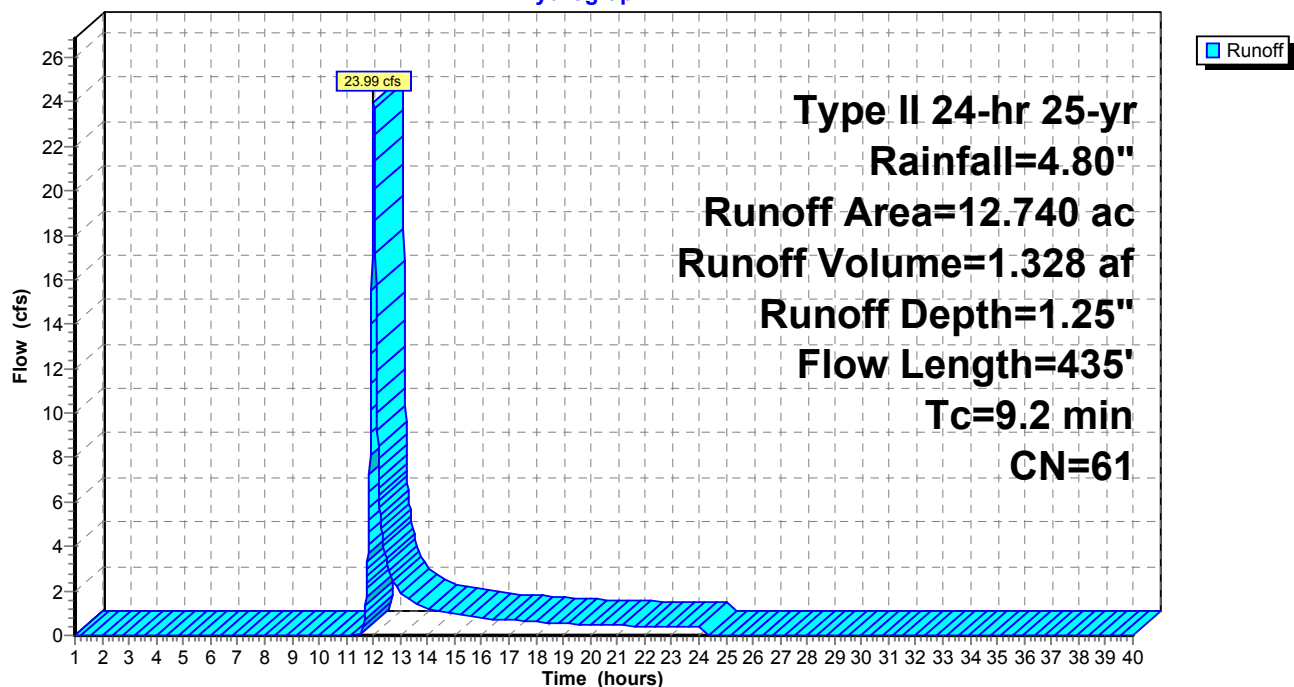
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
12.740	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	435	0.0900	0.8		Lag/CN Method,

Subcatchment W39: W39

Hydrograph



Subcatchment W40: W40

Runoff = 93.19 cfs @ 11.95 hrs, Volume= 4.070 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

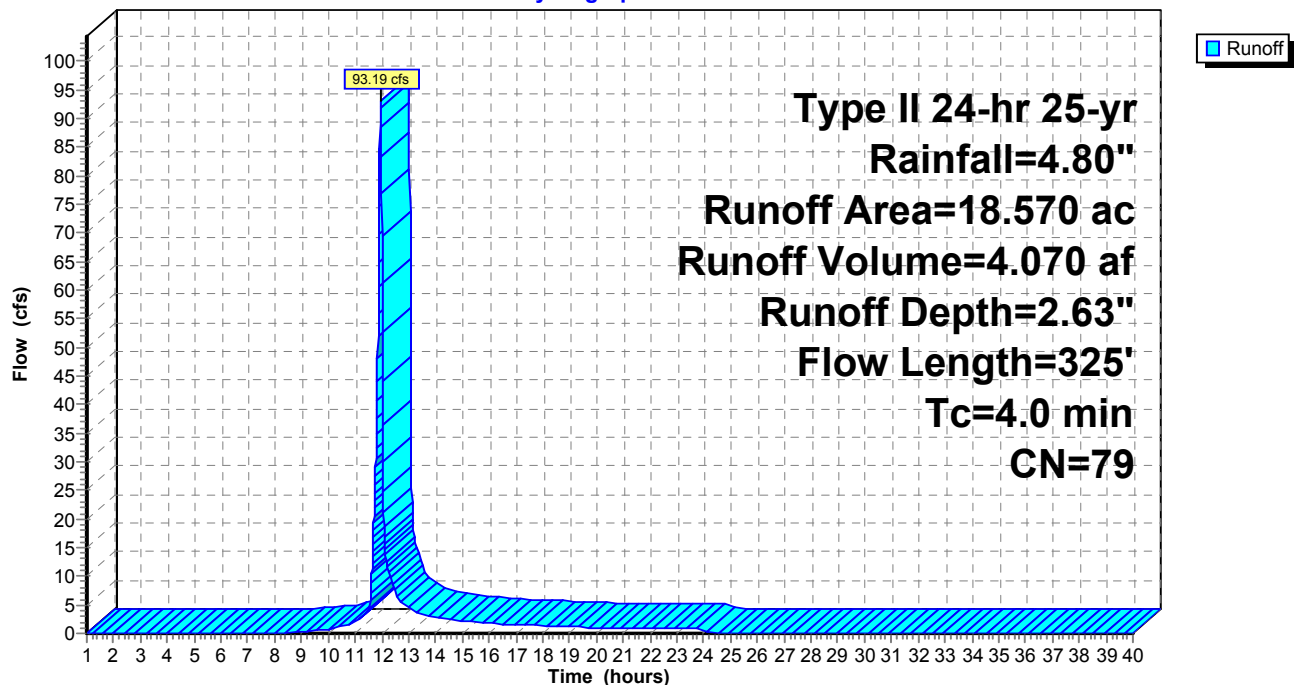
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.570	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	325	0.1100	1.3		Lag/CN Method,

Subcatchment W40: W40

Hydrograph



Subcatchment W41: W41

Runoff = 20.95 cfs @ 11.99 hrs, Volume= 1.019 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

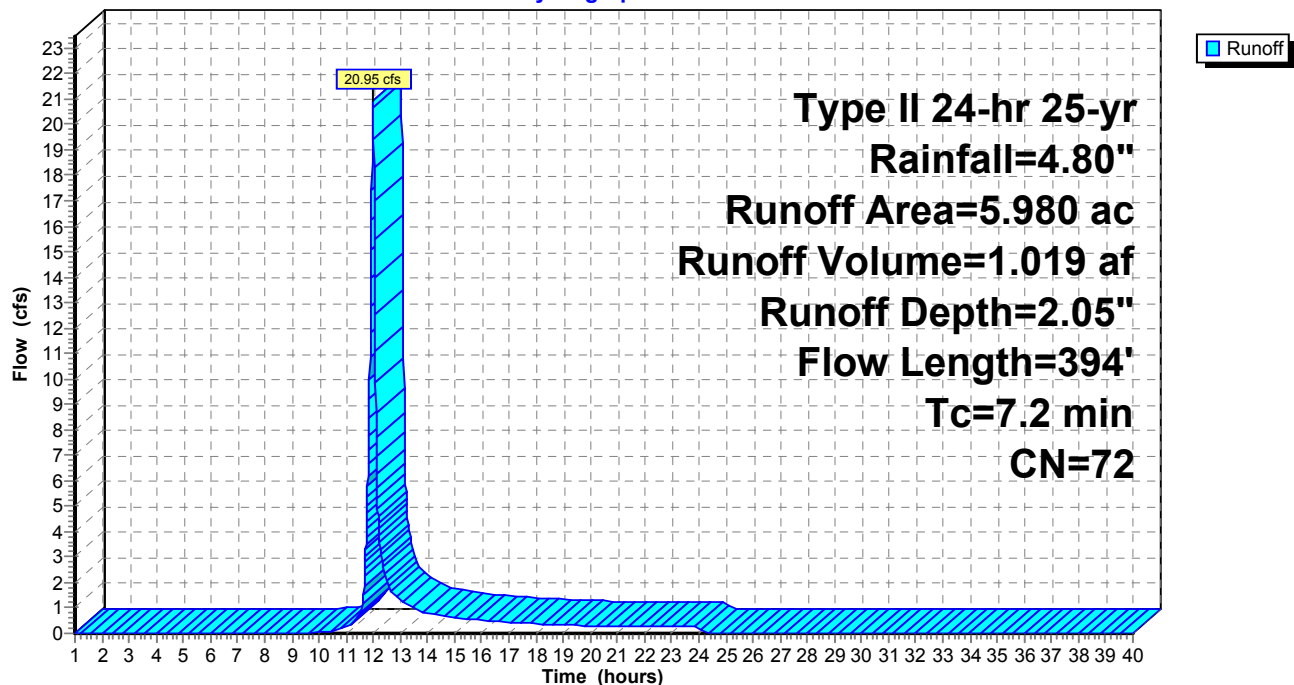
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.980	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	394	0.0700	0.9		Lag/CN Method,

Subcatchment W41: W41

Hydrograph



Subcatchment W42: W42

Runoff = 19.42 cfs @ 11.94 hrs, Volume= 0.805 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

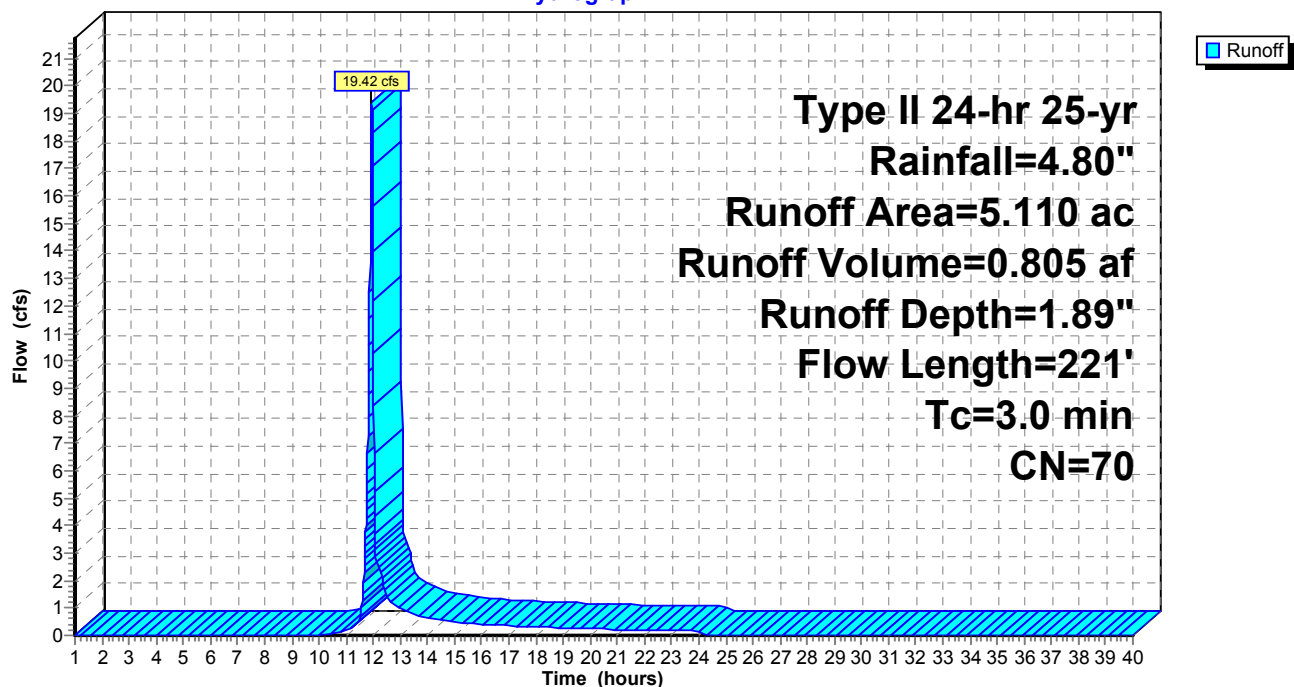
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.110	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	221	0.1800	1.2		Lag/CN Method,

Subcatchment W42: W42

Hydrograph



Subcatchment W43: W43

Runoff = 16.16 cfs @ 12.04 hrs, Volume= 0.925 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

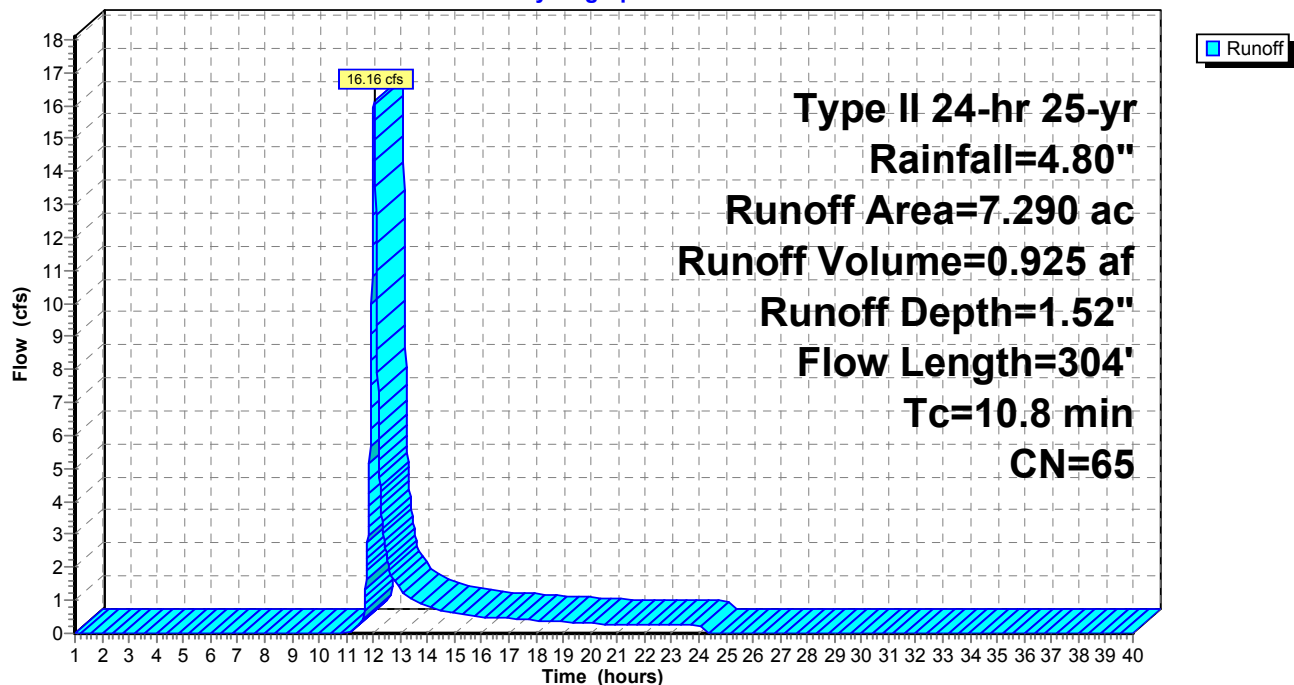
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.290	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	304	0.0300	0.5		Lag/CN Method,

Subcatchment W43: W43

Hydrograph



Subcatchment W44: W44

Runoff = 14.26 cfs @ 12.12 hrs, Volume= 1.048 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

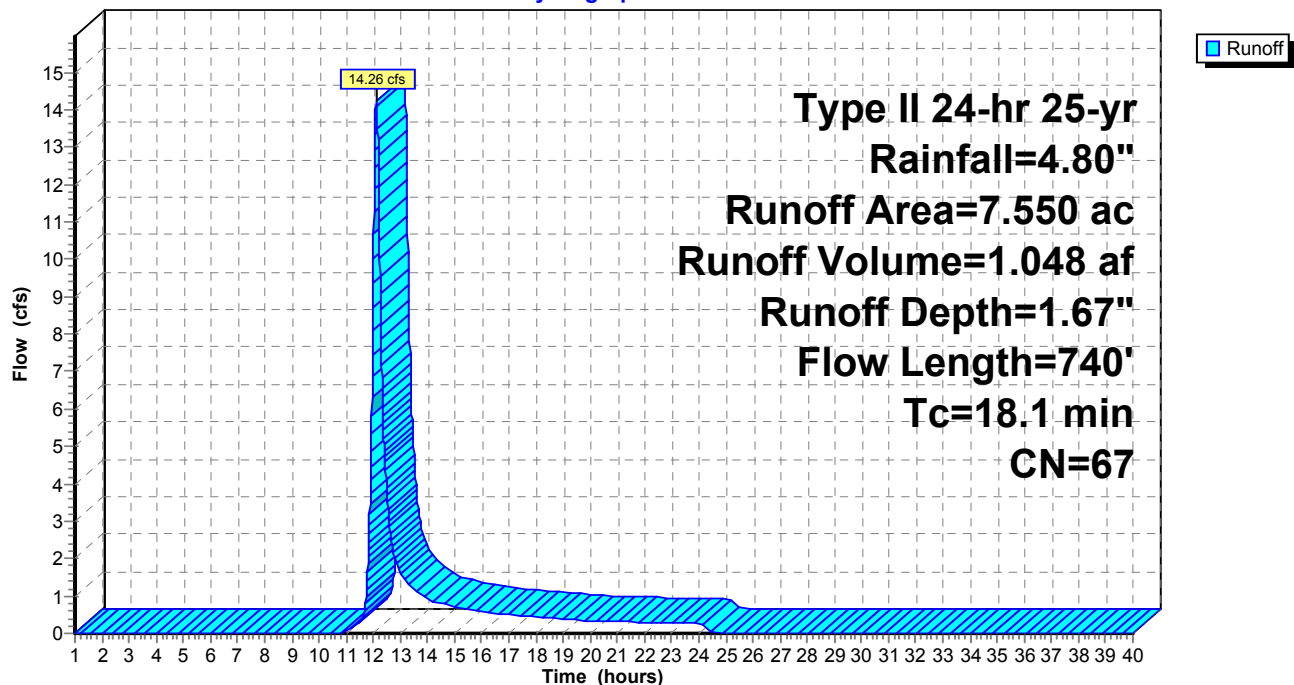
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.550	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.1	740	0.0400	0.7		Lag/CN Method,

Subcatchment W44: W44

Hydrograph



Subcatchment W45: W45

Runoff = 25.53 cfs @ 11.97 hrs, Volume= 1.160 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

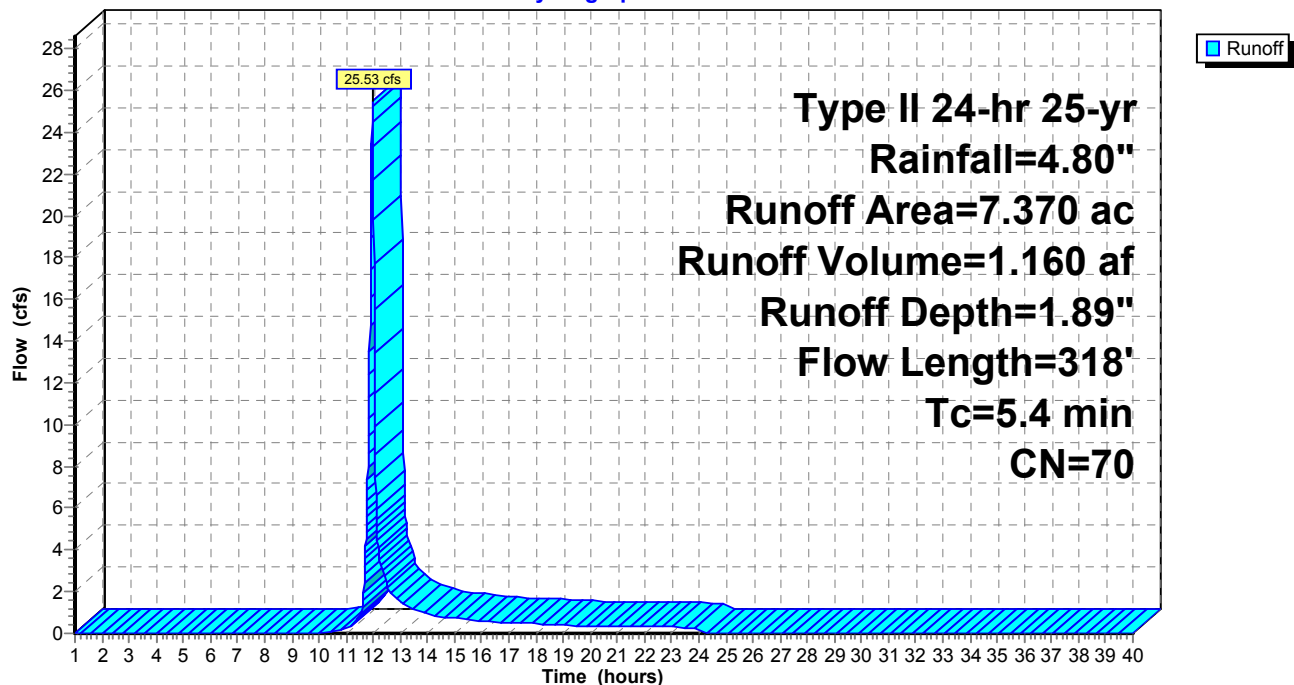
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.370	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.4	318	0.1000	1.0		Lag/CN Method,

Subcatchment W45: W45

Hydrograph



Subcatchment W46: W46

Runoff = 32.10 cfs @ 12.14 hrs, Volume= 2.481 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

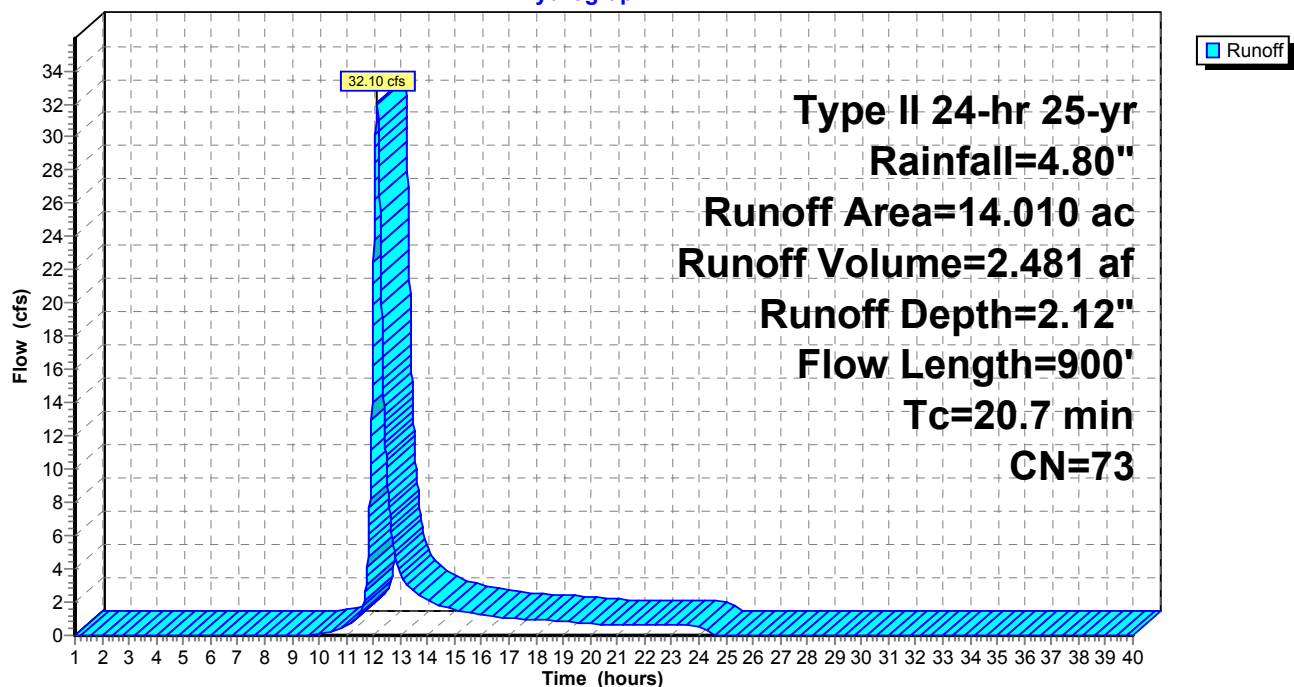
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
14.010	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.7	900	0.0300	0.7		Lag/CN Method,

Subcatchment W46: W46

Hydrograph



Subcatchment W47: W47

Runoff = 12.78 cfs @ 12.15 hrs, Volume= 1.004 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

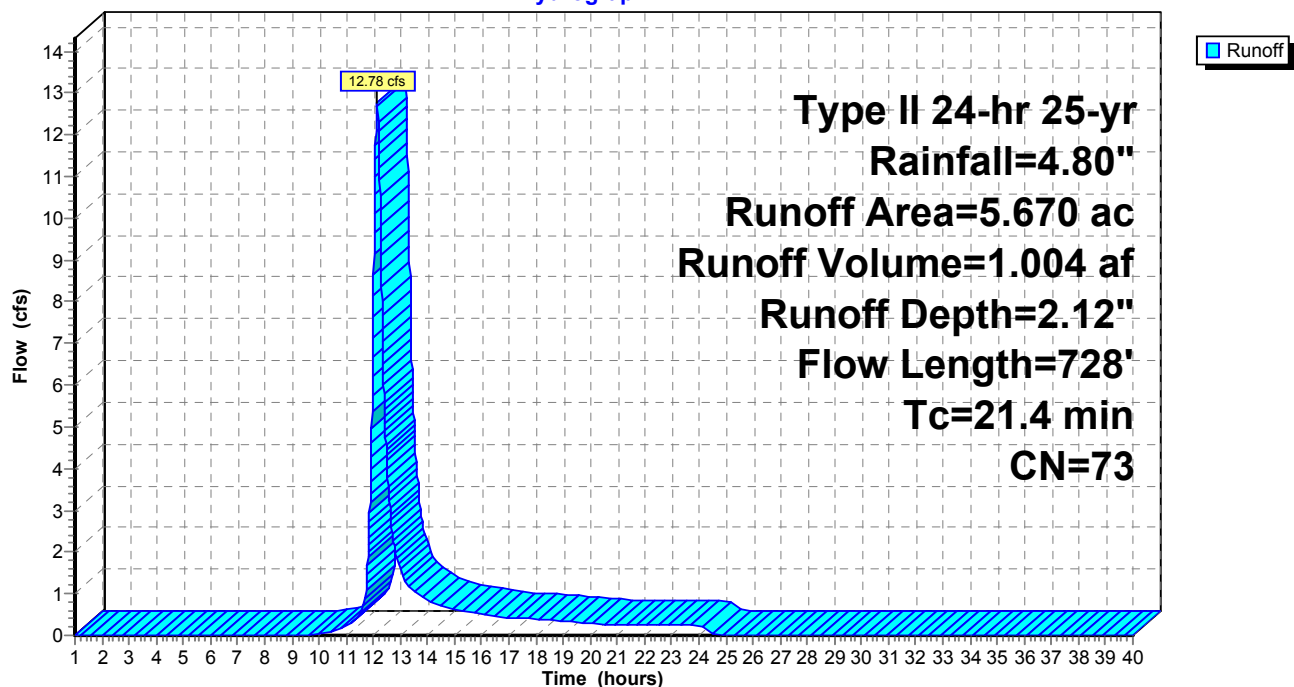
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.670	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.4	728	0.0200	0.6		Lag/CN Method,

Subcatchment W47: W47

Hydrograph



Subcatchment W48: W48

Runoff = 5.60 cfs @ 12.01 hrs, Volume= 0.296 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

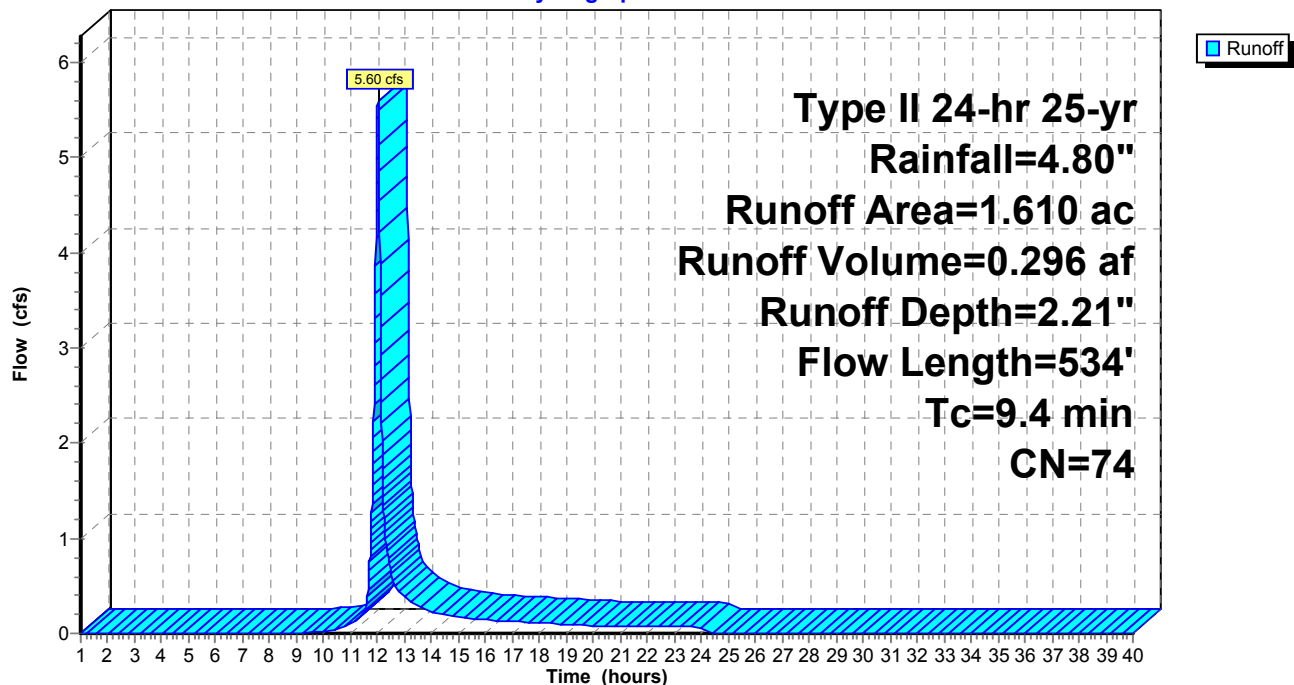
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
1.610	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	534	0.0600	0.9		Lag/CN Method,

Subcatchment W48: W48

Hydrograph



Subcatchment W49: W49

Runoff = 39.52 cfs @ 11.99 hrs, Volume= 1.948 af, Depth= 2.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

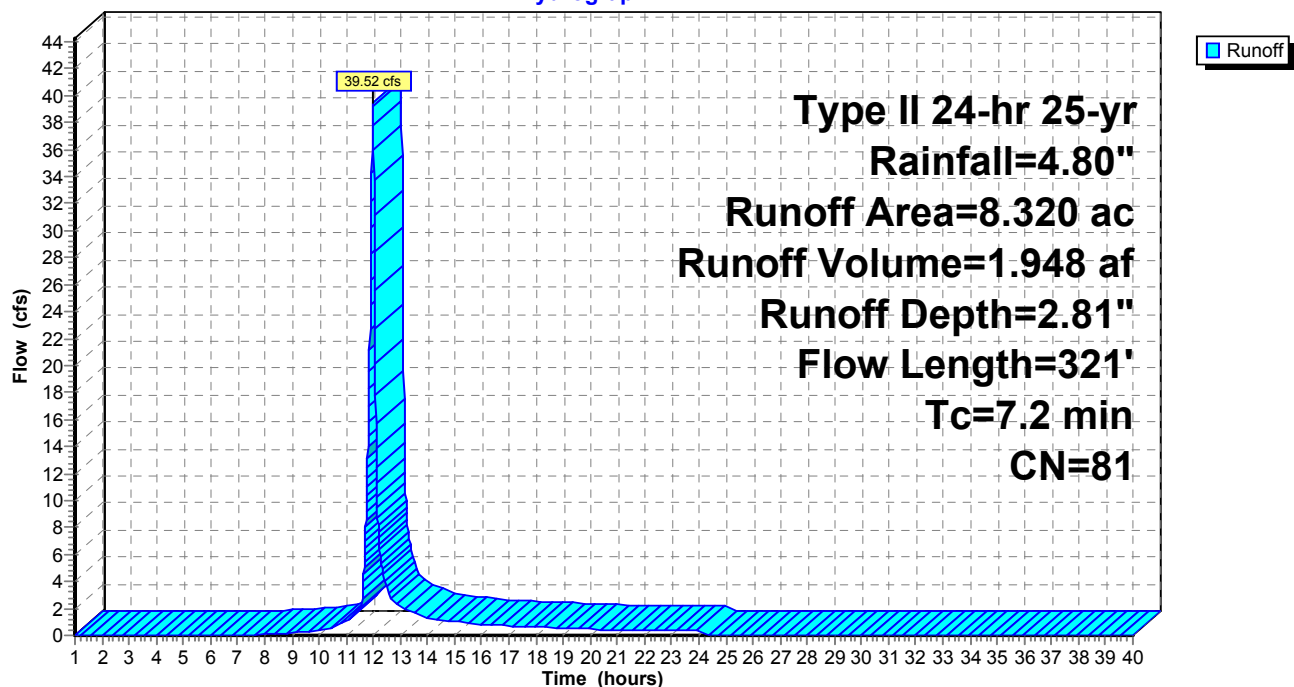
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.320	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	321	0.0300	0.7		Lag/CN Method,

Subcatchment W49: W49

Hydrograph



Subcatchment W50: W50

Runoff = 44.78 cfs @ 12.26 hrs, Volume= 4.392 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

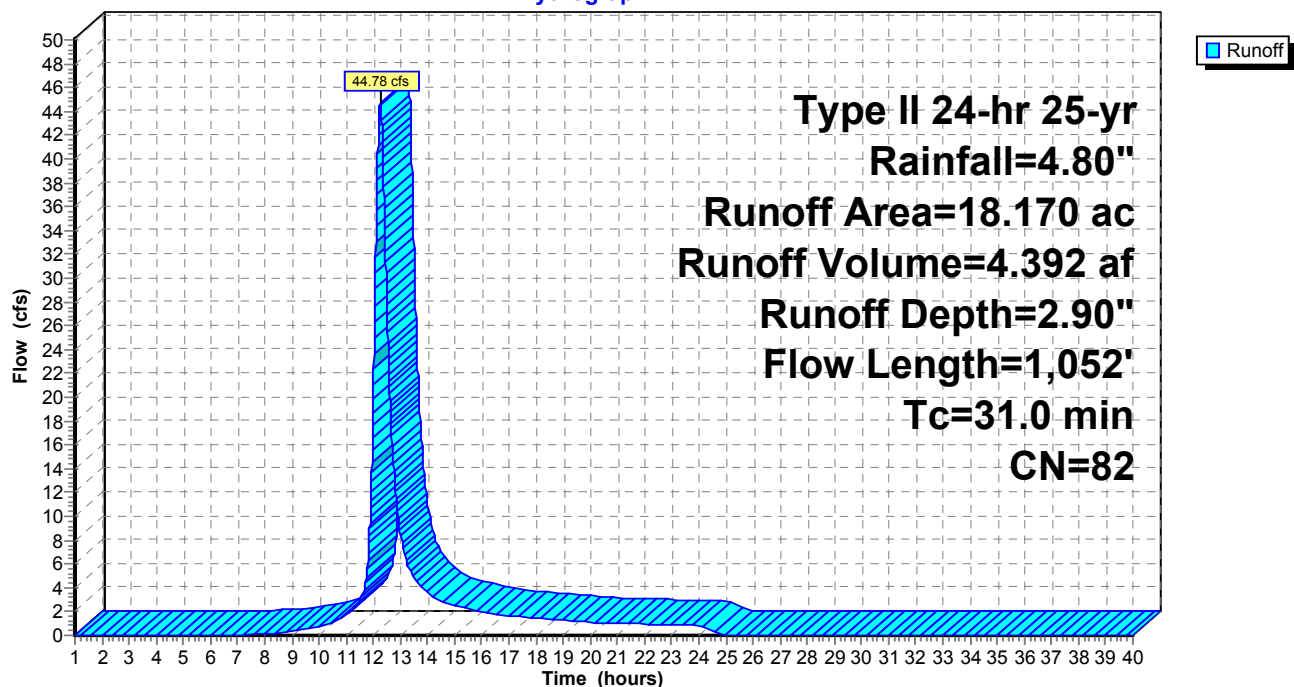
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.170	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	1,052	0.0100	0.6		Lag/CN Method,

Subcatchment W50: W50

Hydrograph



Subcatchment W51: W51

Runoff = 21.11 cfs @ 12.04 hrs, Volume= 1.227 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

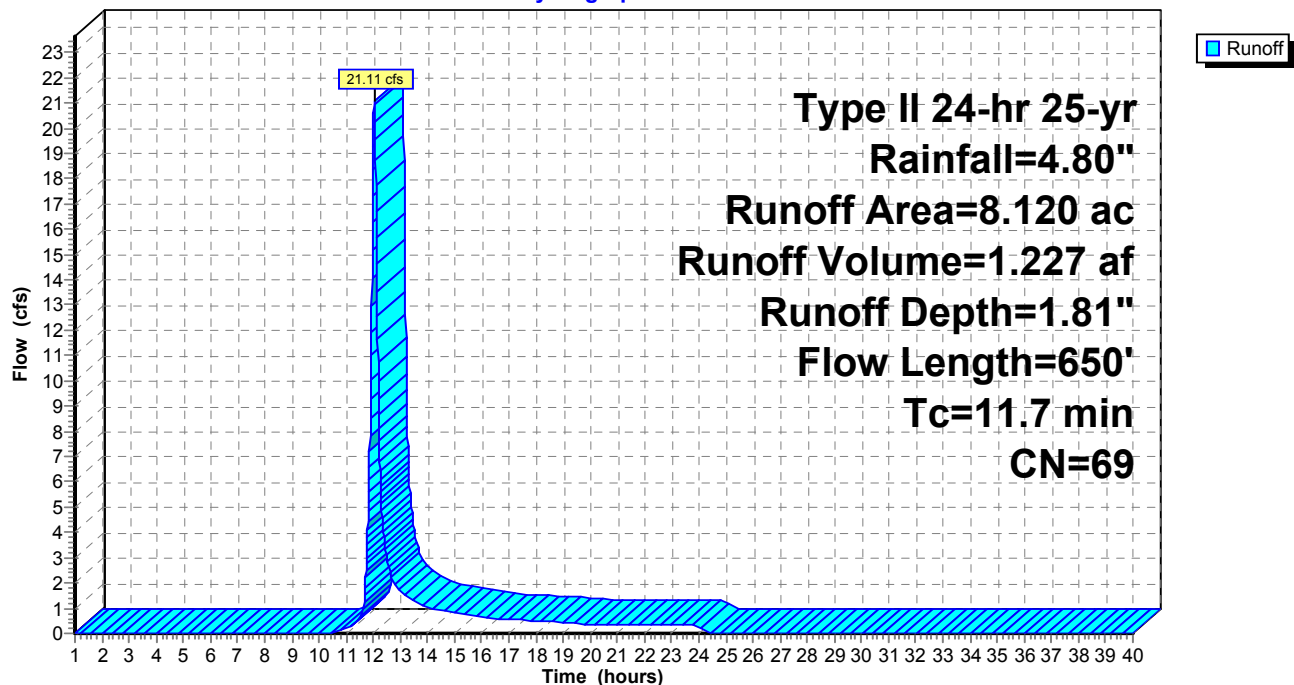
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.120	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	650	0.0700	0.9		Lag/CN Method,

Subcatchment W51: W51

Hydrograph



Subcatchment W52: W52

Runoff = 22.43 cfs @ 12.00 hrs, Volume= 1.146 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

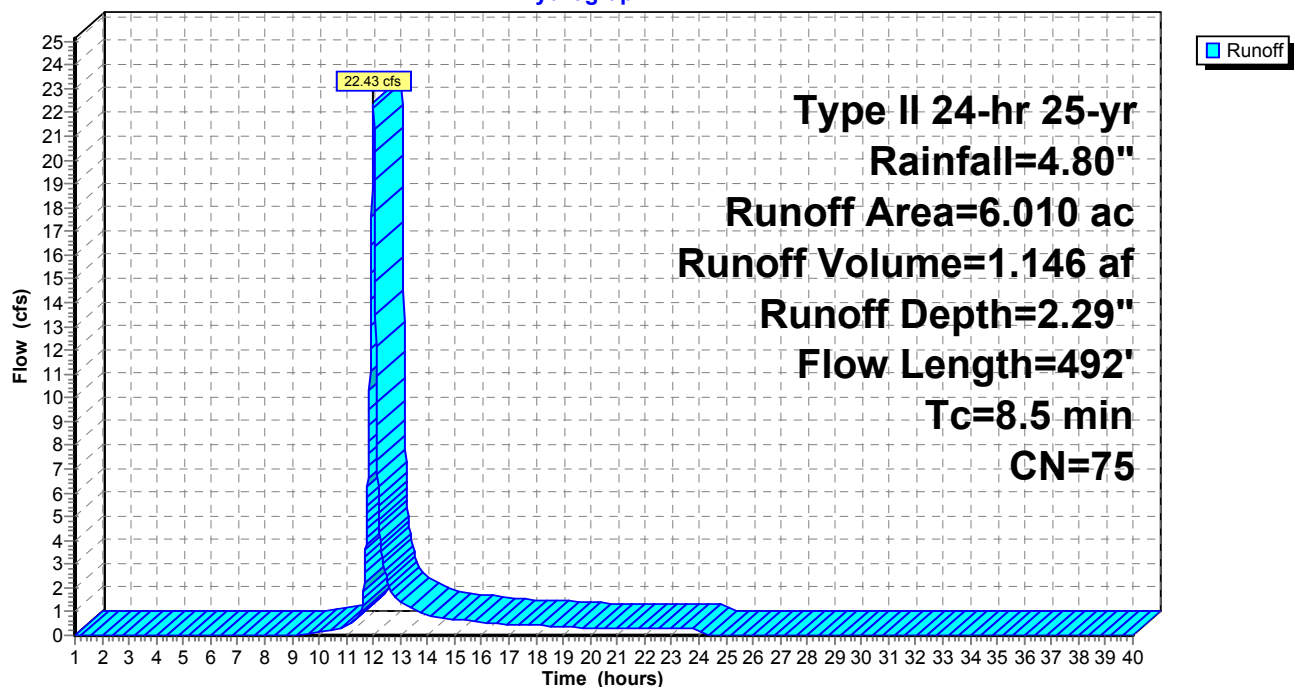
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
6.010	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	492	0.0600	1.0		Lag/CN Method,

Subcatchment W52: W52

Hydrograph



Subcatchment W53: W53

Runoff = 23.05 cfs @ 12.21 hrs, Volume= 2.082 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

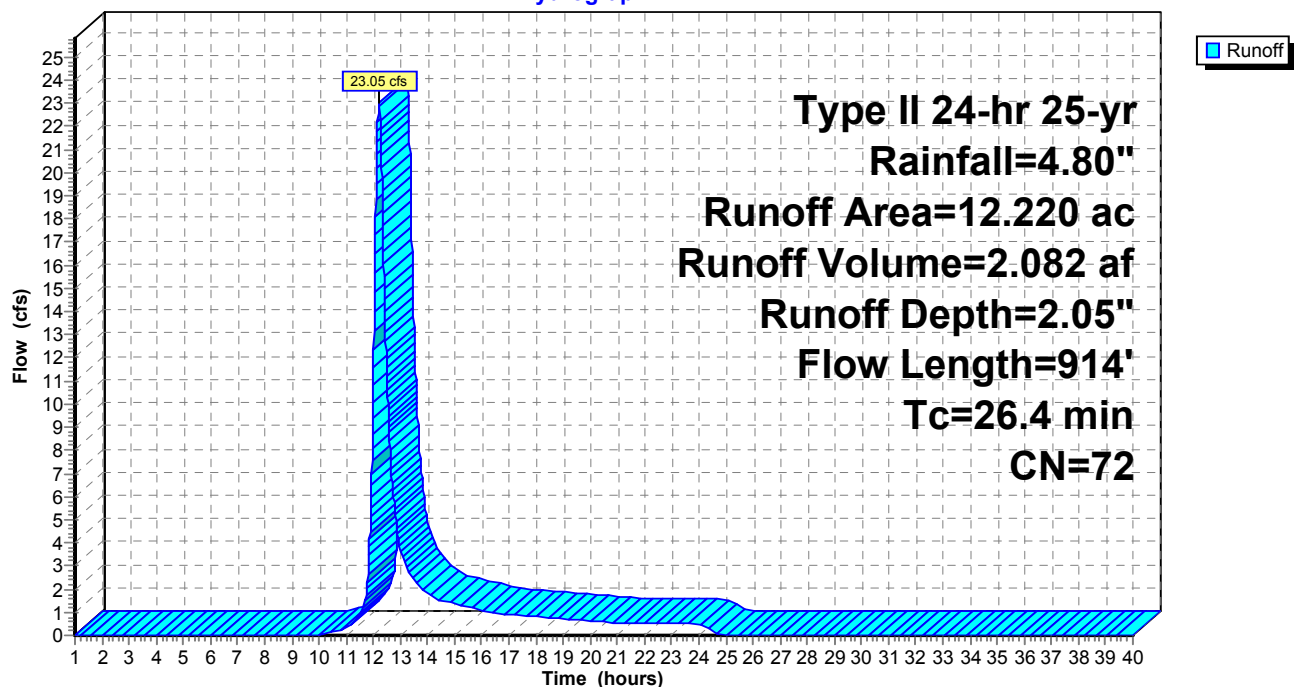
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
12.220	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	914	0.0200	0.6		Lag/CN Method,

Subcatchment W53: W53

Hydrograph



Subcatchment W54: W54

Runoff = 27.77 cfs @ 12.03 hrs, Volume= 1.557 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

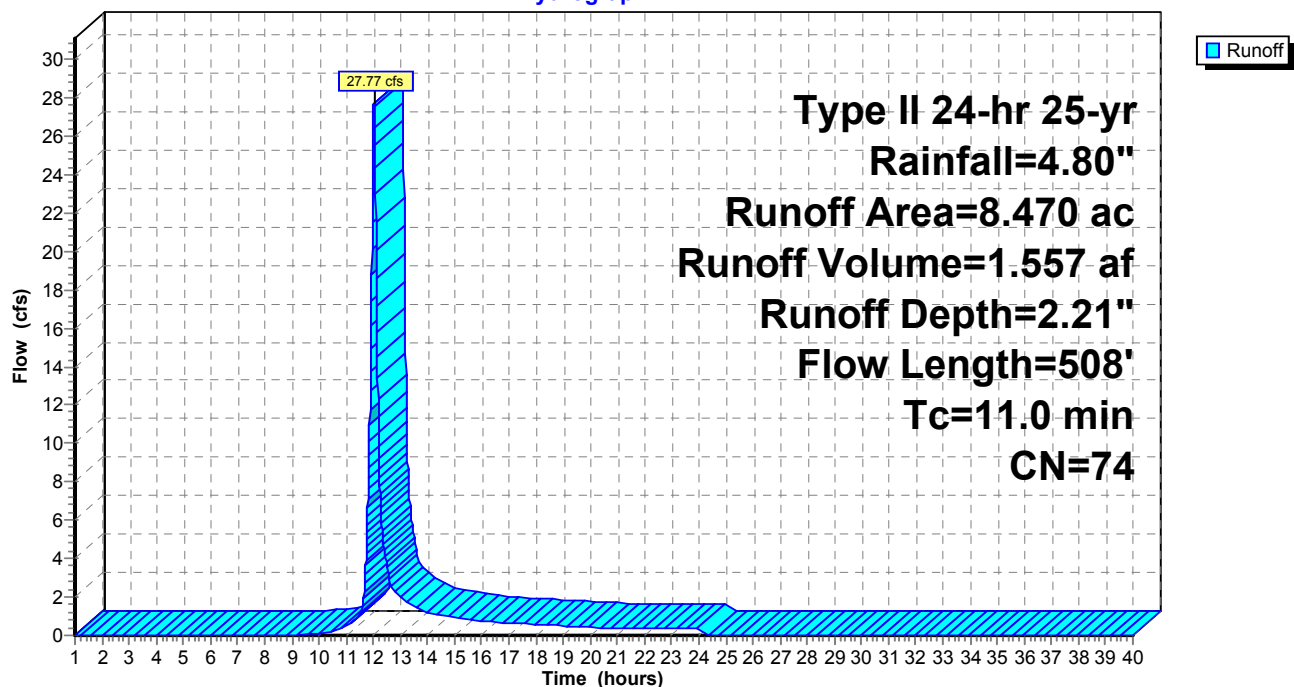
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.470	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	508	0.0400	0.8		Lag/CN Method,

Subcatchment W54: W54

Hydrograph



Subcatchment W55: W55

Runoff = 6.22 cfs @ 12.00 hrs, Volume= 0.316 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

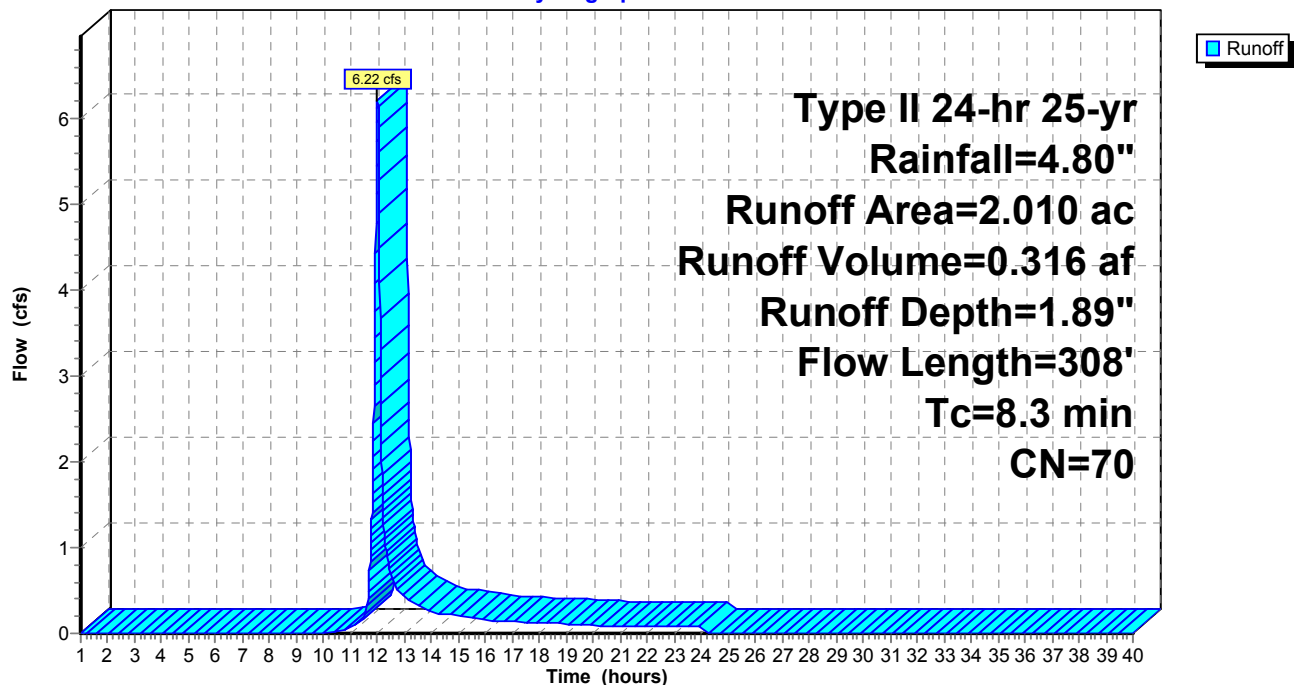
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
2.010	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	308	0.0400	0.6		Lag/CN Method,

Subcatchment W55: W55

Hydrograph



Subcatchment W56: W56

Runoff = 19.86 cfs @ 11.97 hrs, Volume= 0.892 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

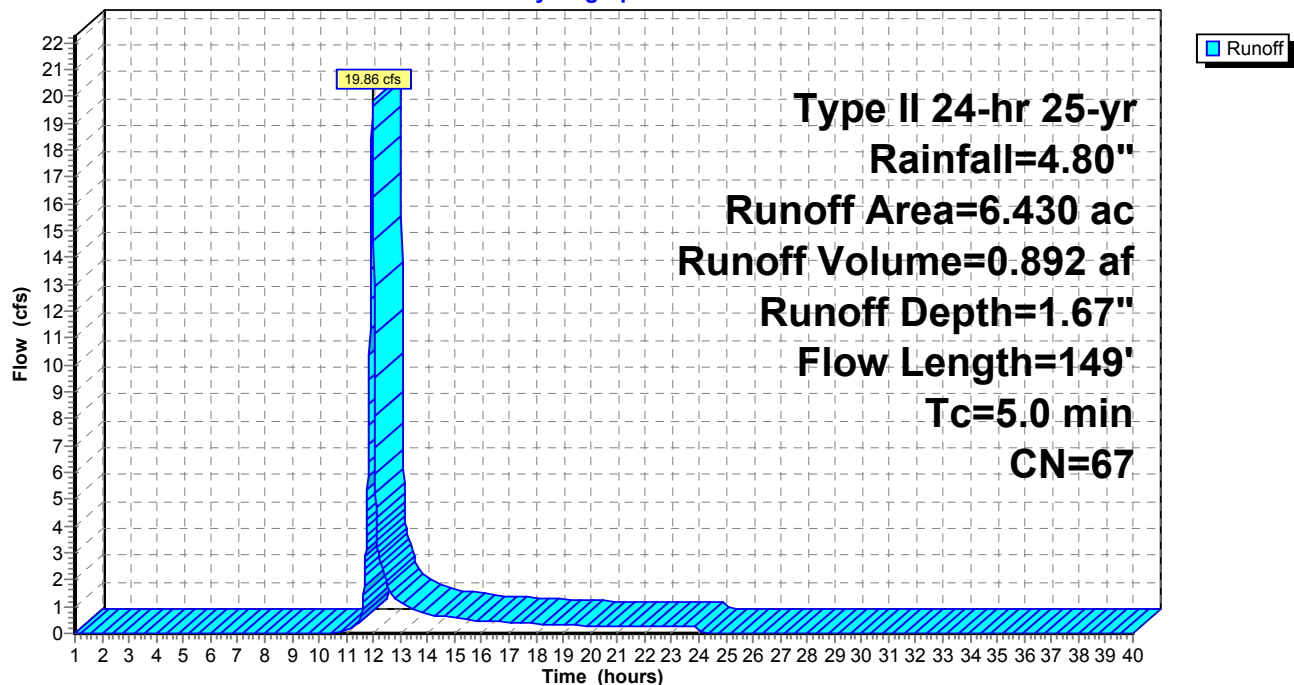
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
6.430	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	149	0.0400	0.5		Lag/CN Method,

Subcatchment W56: W56

Hydrograph



Subcatchment W57: W57

Runoff = 32.29 cfs @ 11.98 hrs, Volume= 1.518 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

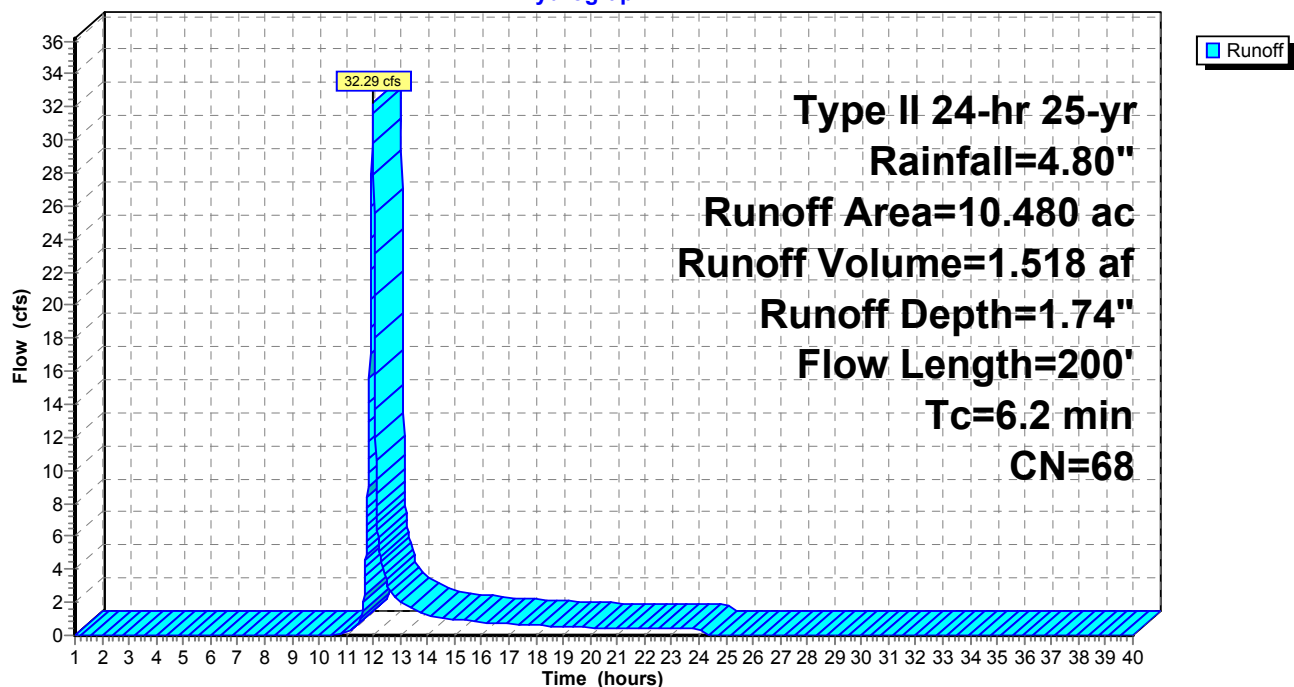
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
10.480	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	200	0.0400	0.5		Lag/CN Method,

Subcatchment W57: W57

Hydrograph



Subcatchment W58: W58

Runoff = 153.46 cfs @ 12.01 hrs, Volume= 7.979 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

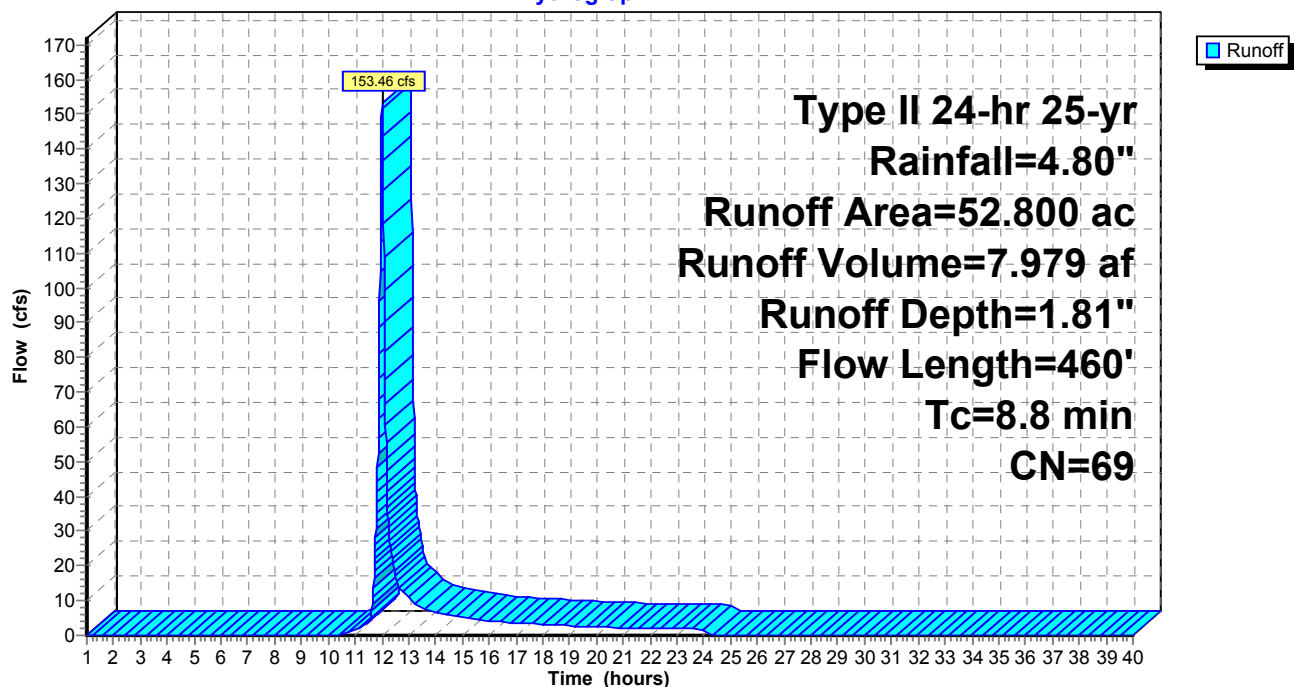
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
52.800	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	460	0.0700	0.9		Lag/CN Method,

Subcatchment W58: W58

Hydrograph



Subcatchment W59: W59

Runoff = 71.16 cfs @ 11.99 hrs, Volume= 3.564 af, Depth= 3.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

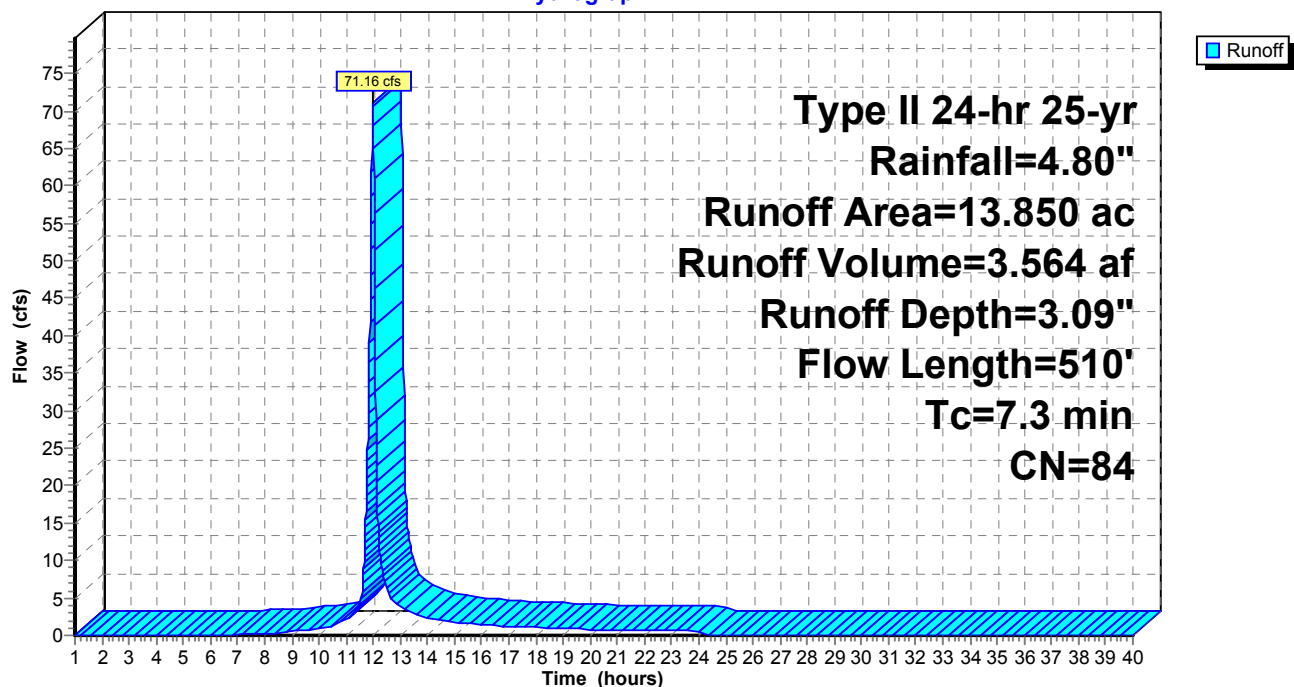
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
13.850	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	510	0.0500	1.2		Lag/CN Method,

Subcatchment W59: W59

Hydrograph



Subcatchment W60: W60

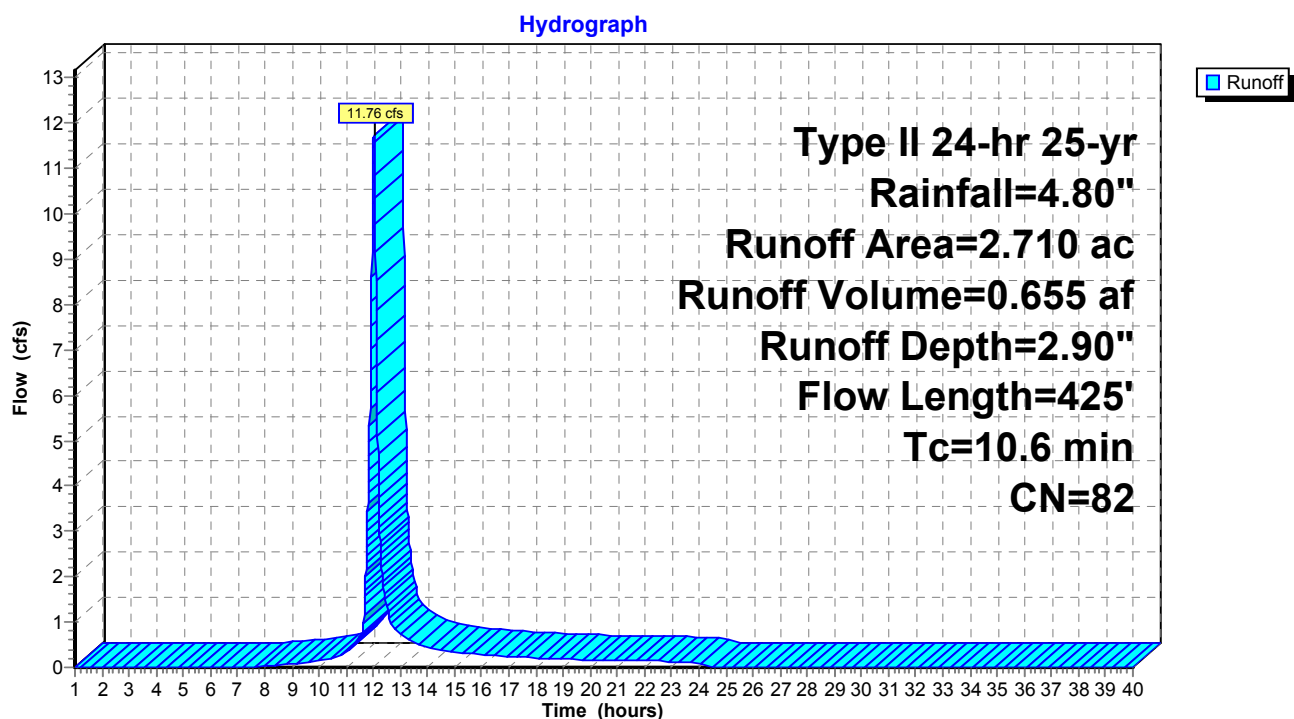
Runoff = 11.76 cfs @ 12.02 hrs, Volume= 0.655 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
2.710	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	425	0.0200	0.7		Lag/CN Method,

Subcatchment W60: W60

Subcatchment W61: W61

Runoff = 25.79 cfs @ 12.10 hrs, Volume= 1.765 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

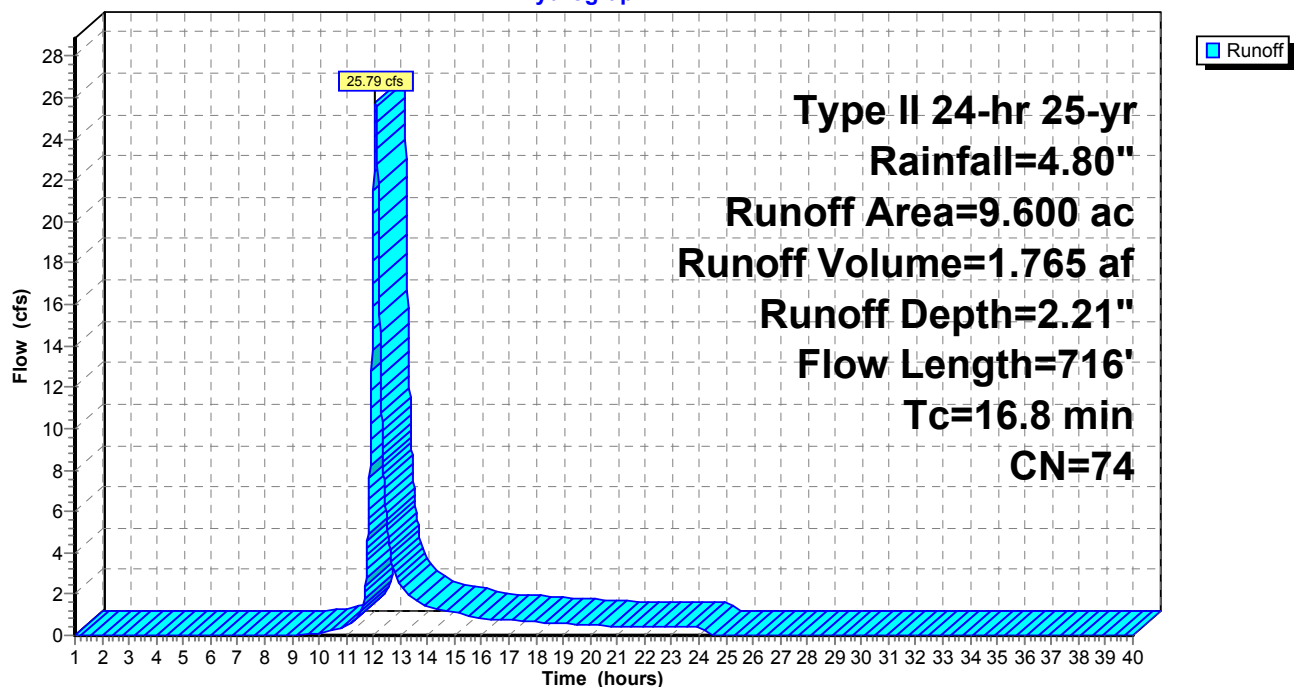
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.600	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	716	0.0300	0.7		Lag/CN Method,

Subcatchment W61: W61

Hydrograph



Subcatchment W62: W62

Runoff = 22.95 cfs @ 12.11 hrs, Volume= 1.649 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

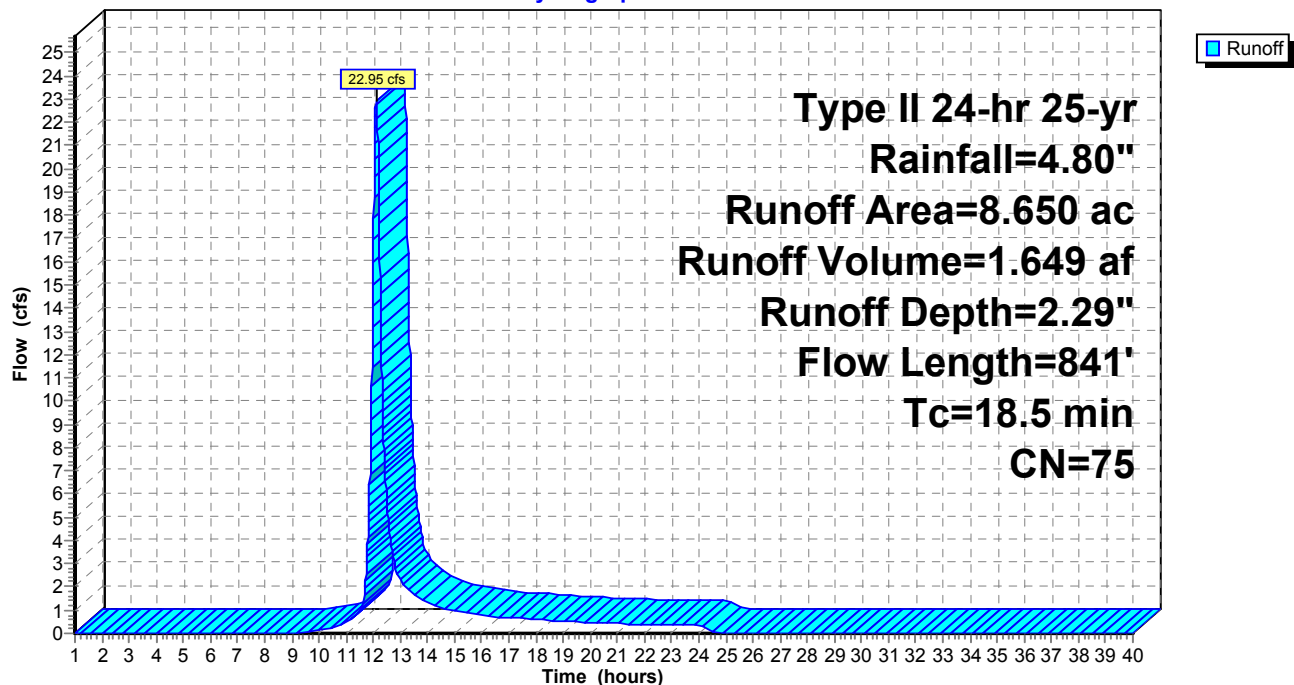
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.650	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.5	841	0.0300	0.8		Lag/CN Method,

Subcatchment W62: W62

Hydrograph



Subcatchment W63: W63

Runoff = 17.76 cfs @ 11.94 hrs, Volume= 0.740 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

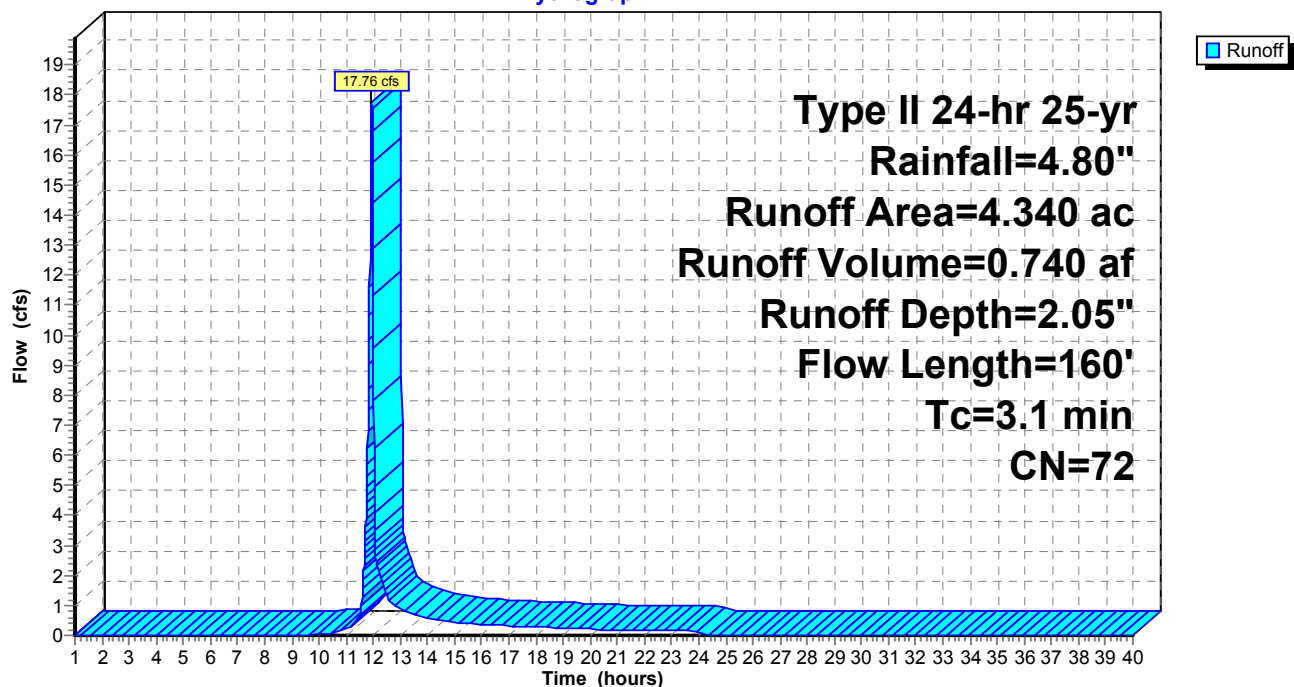
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.340	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	160	0.0900	0.9		Lag/CN Method,

Subcatchment W63: W63

Hydrograph



Subcatchment W64: W64

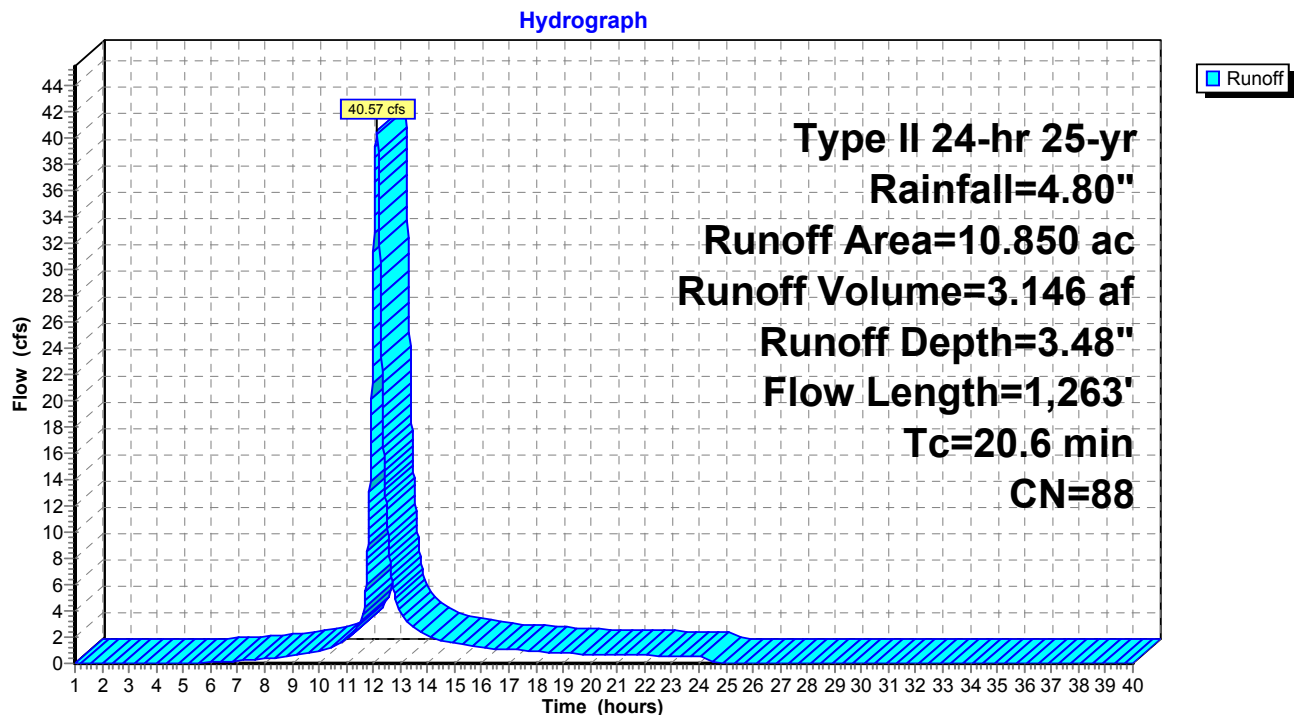
Runoff = 40.57 cfs @ 12.13 hrs, Volume= 3.146 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
10.850	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,263	0.0200	1.0		Lag/CN Method,

Subcatchment W64: W64

Subcatchment W65: W65

Runoff = 53.37 cfs @ 12.19 hrs, Volume= 4.569 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

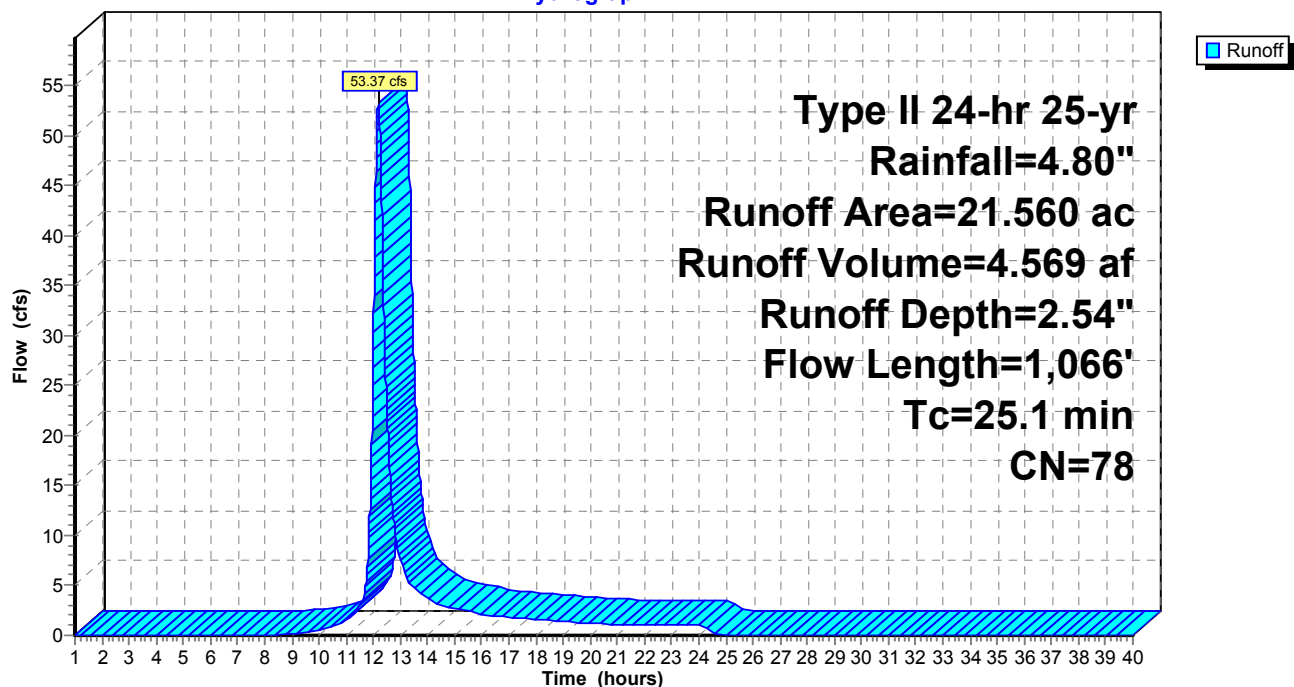
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
21.560	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,066	0.0200	0.7		Lag/CN Method,

Subcatchment W65: W65

Hydrograph



Subcatchment W66: W66

Runoff = 101.98 cfs @ 11.98 hrs, Volume= 4.905 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

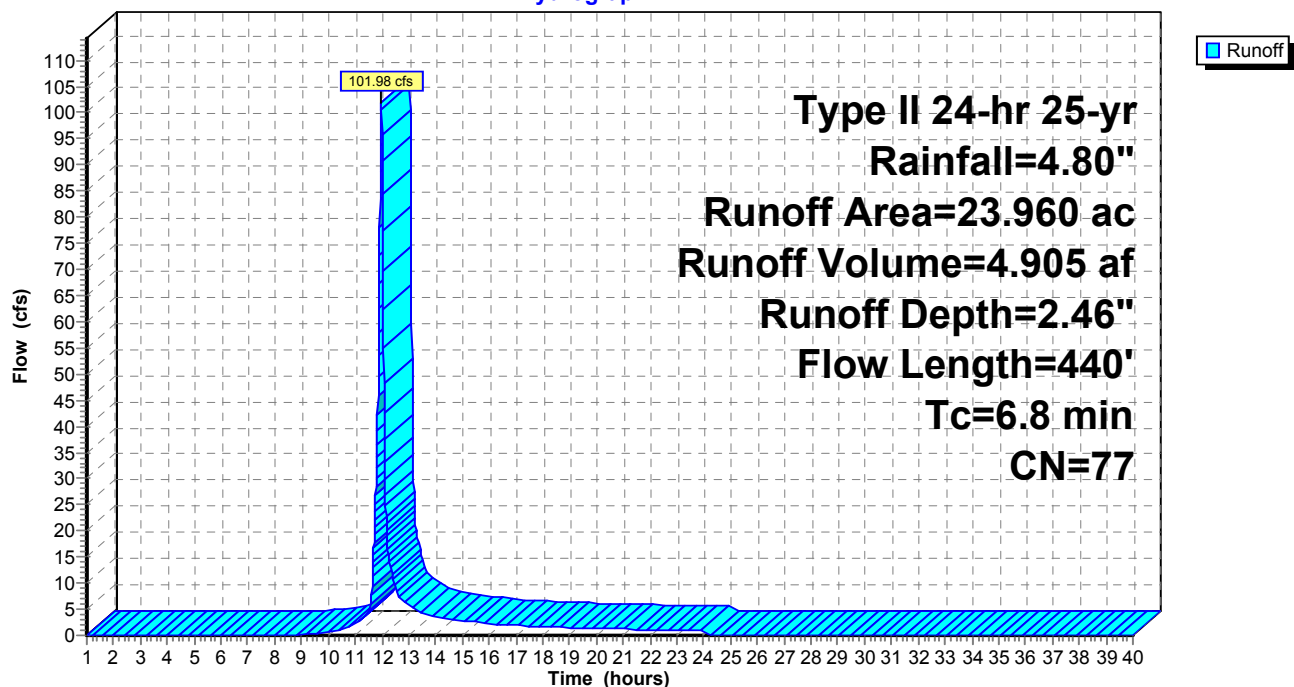
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
23.960	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	440	0.0700	1.1		Lag/CN Method,

Subcatchment W66: W66

Hydrograph



Subcatchment W67: W67

Runoff = 102.24 cfs @ 12.30 hrs, Volume= 10.873 af, Depth= 3.48"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

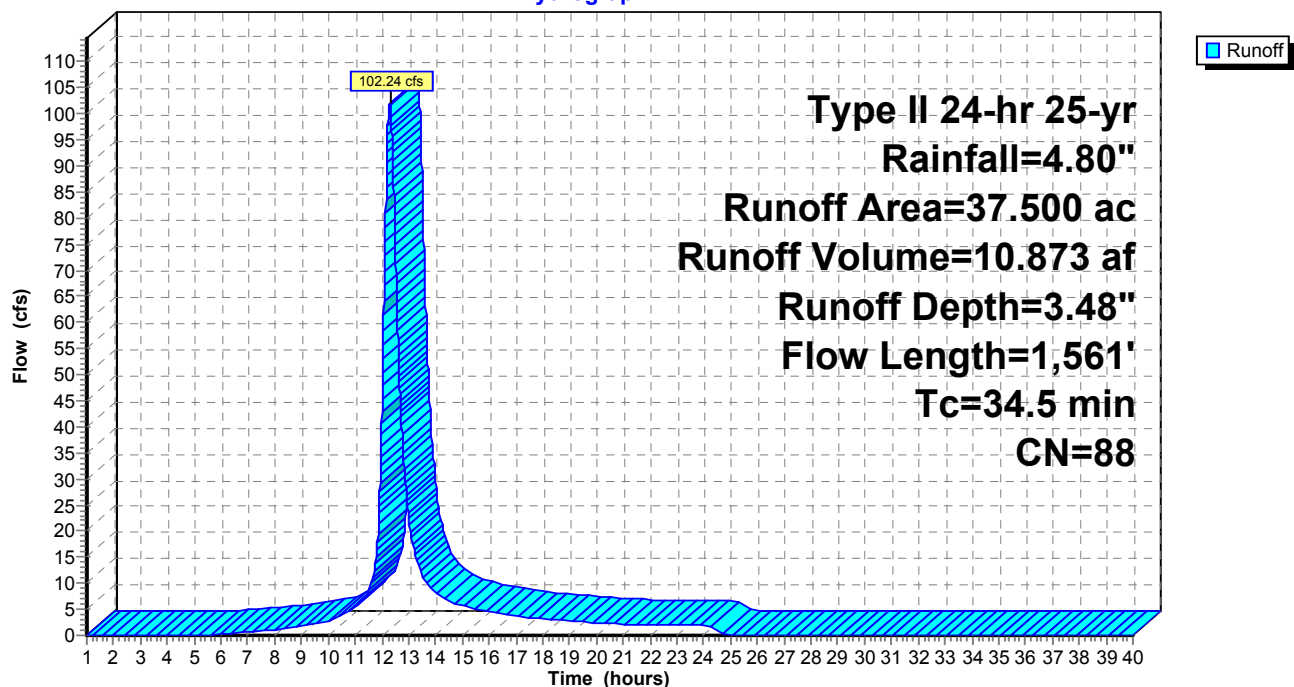
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
37.500	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.5	1,561	0.0100	0.8		Lag/CN Method,

Subcatchment W67: W67

Hydrograph



Subcatchment W68: W68

Runoff = 156.00 cfs @ 12.08 hrs, Volume= 10.256 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

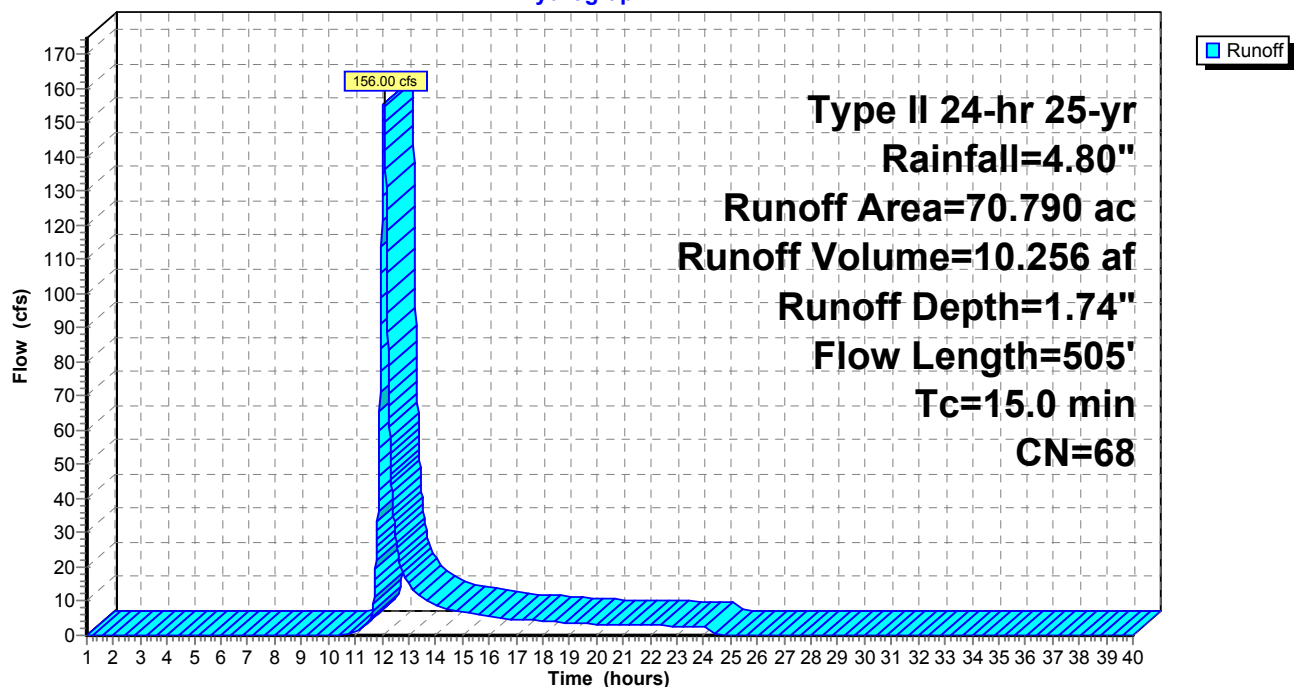
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
70.790	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	505	0.0300	0.6		Lag/CN Method,

Subcatchment W68: W68

Hydrograph



Subcatchment W69: W69

Runoff = 43.08 cfs @ 12.01 hrs, Volume= 2.254 af, Depth= 1.74"

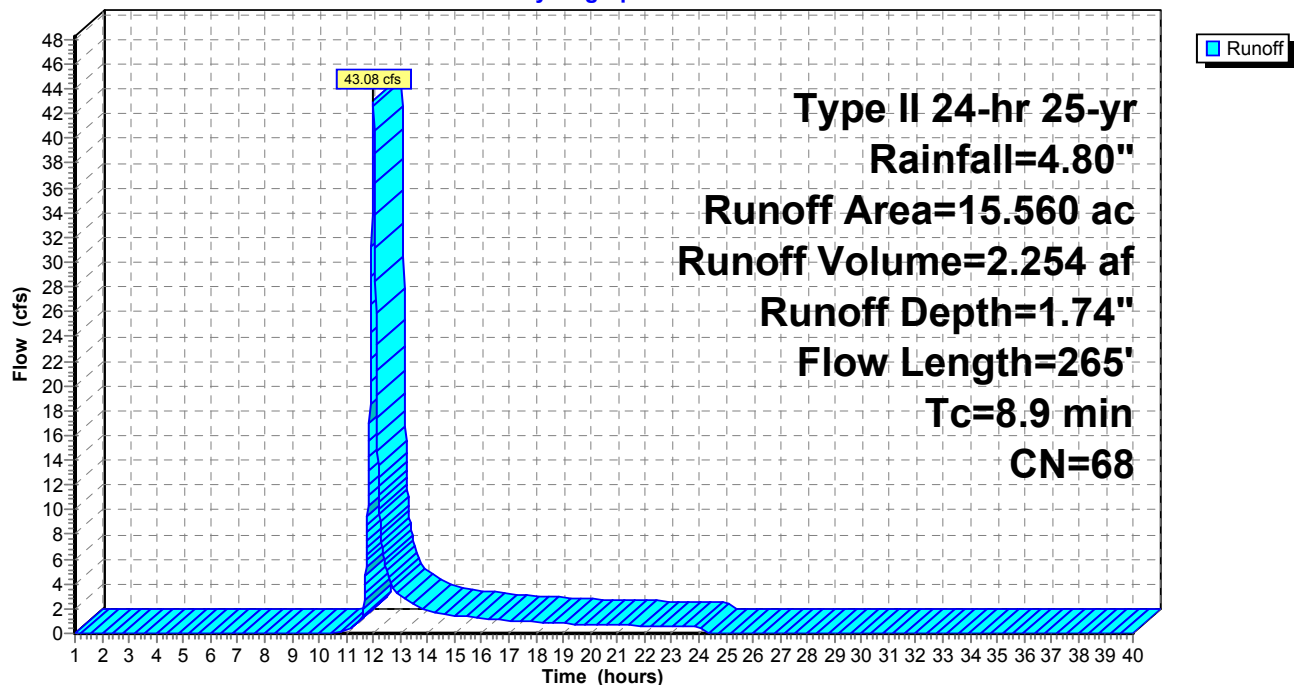
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
15.560	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	265	0.0300	0.5		Lag/CN Method,

Subcatchment W69: W69

Hydrograph



Subcatchment W70: W70

Runoff = 45.53 cfs @ 14.37 hrs, Volume= 17.742 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

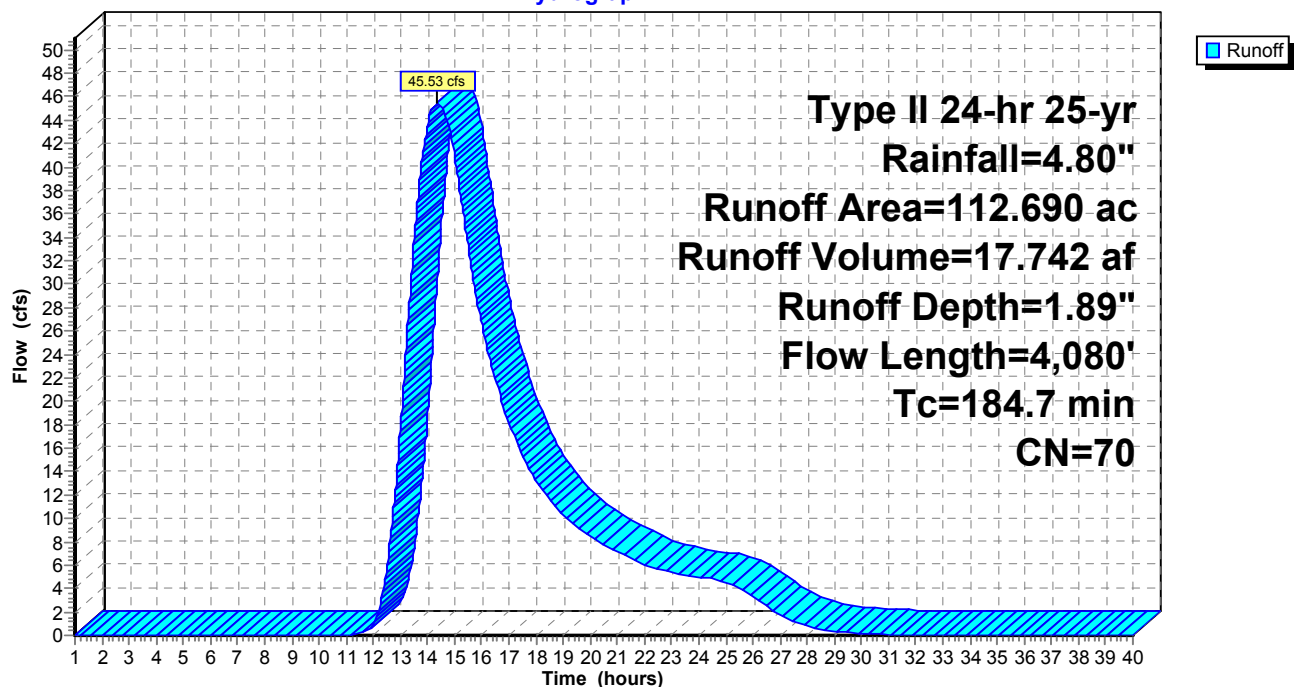
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
112.690	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
184.7	4,080	0.0050	0.4		Lag/CN Method,

Subcatchment W70: W70

Hydrograph



Subcatchment W71: W71

Runoff = 29.48 cfs @ 12.82 hrs, Volume= 5.481 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

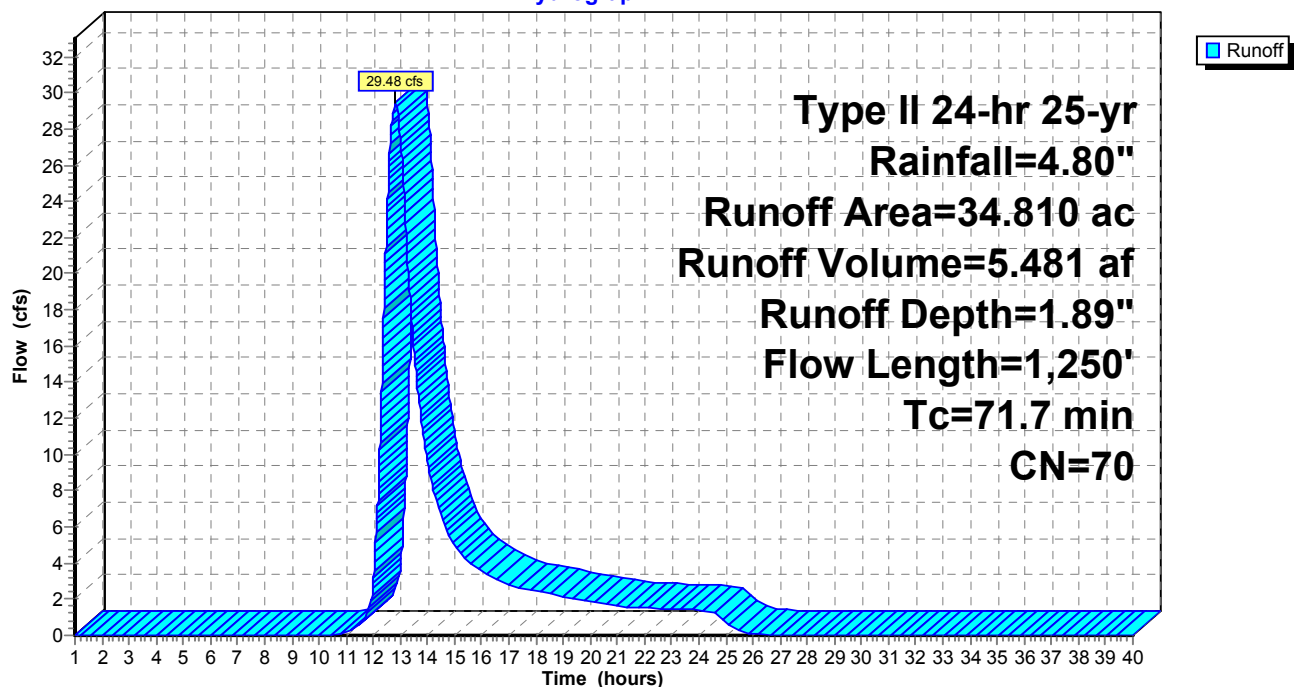
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
34.810	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.7	1,250	0.0050	0.3		Lag/CN Method,

Subcatchment W71: W71

Hydrograph



Subcatchment W72: W72

Runoff = 35.52 cfs @ 12.15 hrs, Volume= 2.876 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

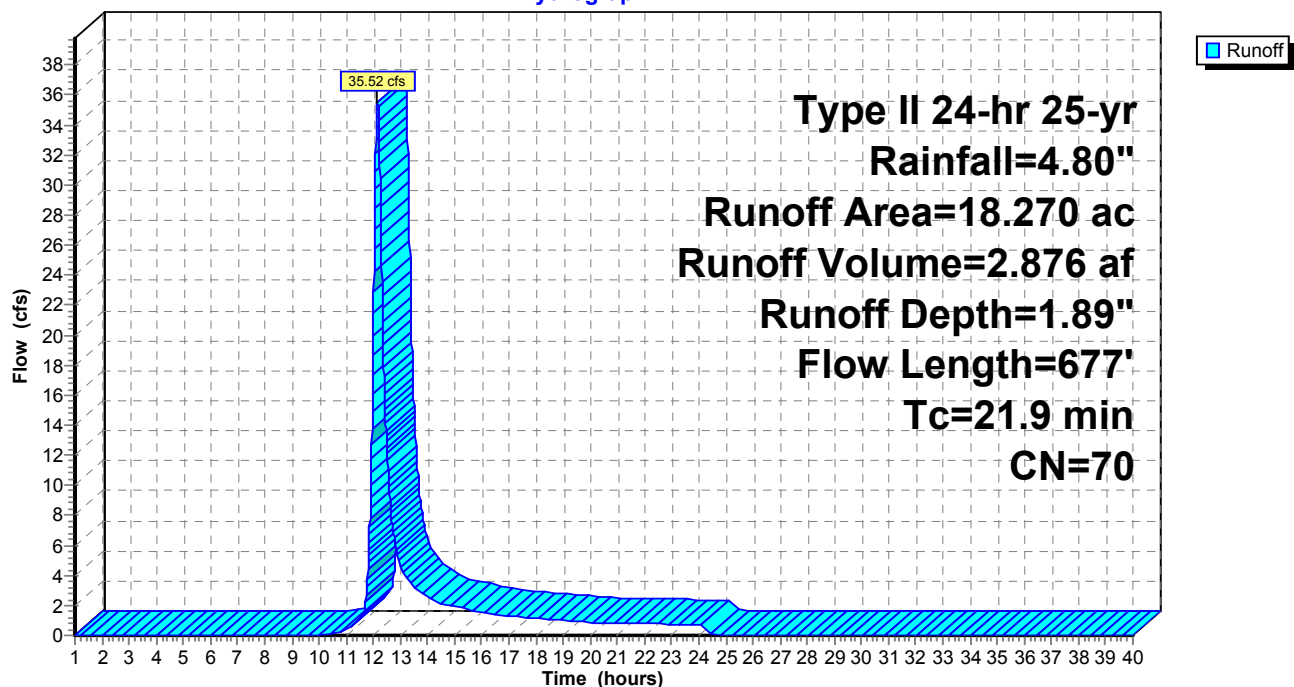
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.270	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	677	0.0200	0.5		Lag/CN Method,

Subcatchment W72: W72

Hydrograph



Subcatchment W73: W73

Runoff = 25.55 cfs @ 12.62 hrs, Volume= 4.201 af, Depth= 1.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

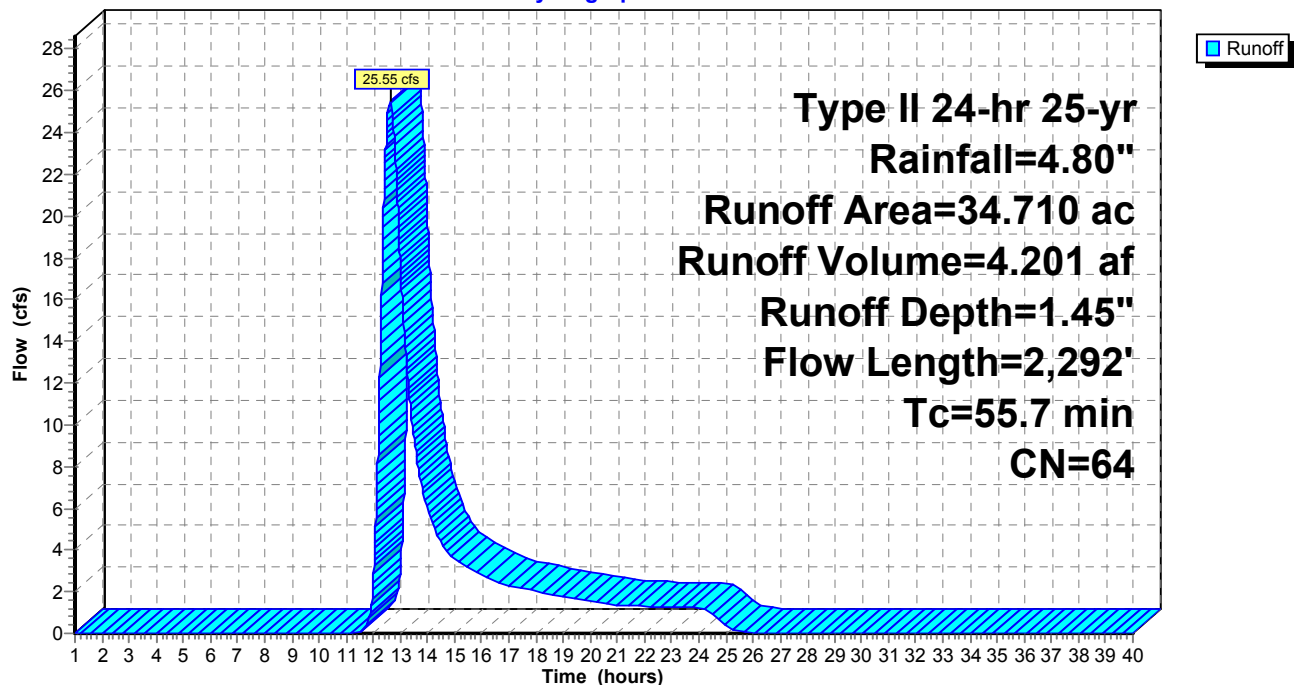
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
34.710	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.7	2,292	0.0300	0.7		Lag/CN Method,

Subcatchment W73: W73

Hydrograph



Subcatchment W74: W74

Runoff = 12.14 cfs @ 12.02 hrs, Volume= 0.664 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

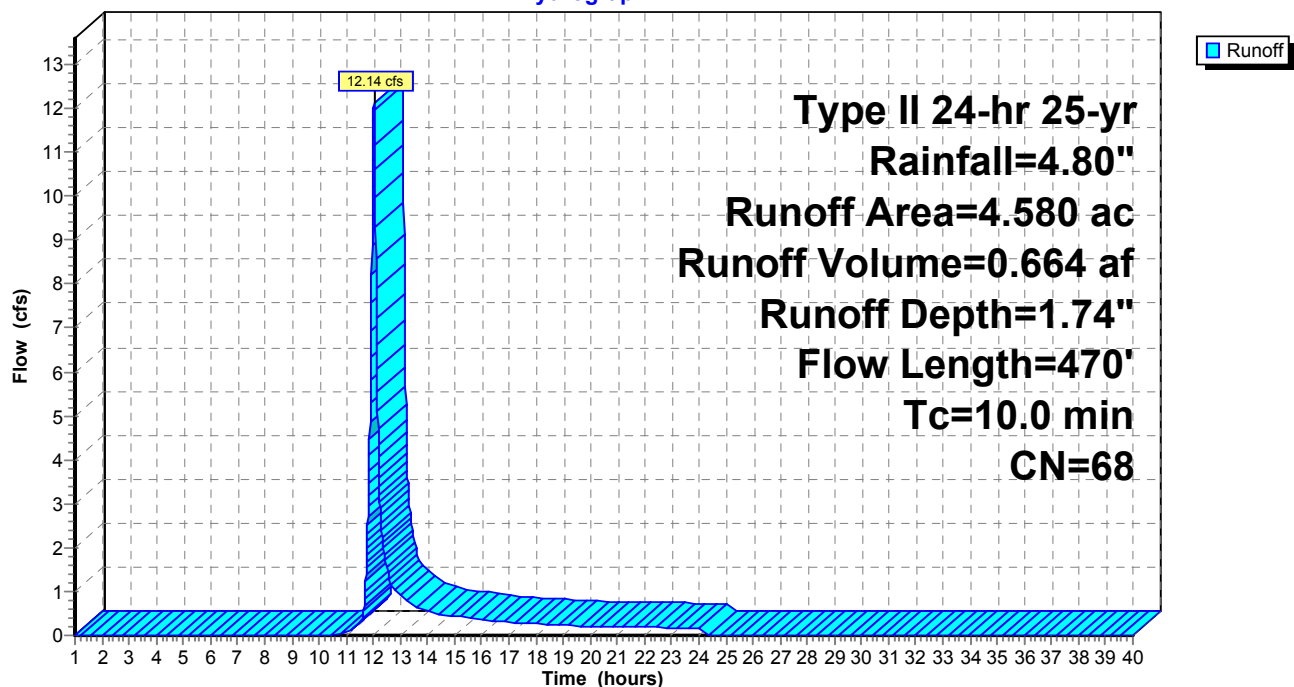
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
4.580	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	470	0.0600	0.8		Lag/CN Method,

Subcatchment W74: W74

Hydrograph



Subcatchment W75: W75

Runoff = 114.88 cfs @ 12.09 hrs, Volume= 7.795 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

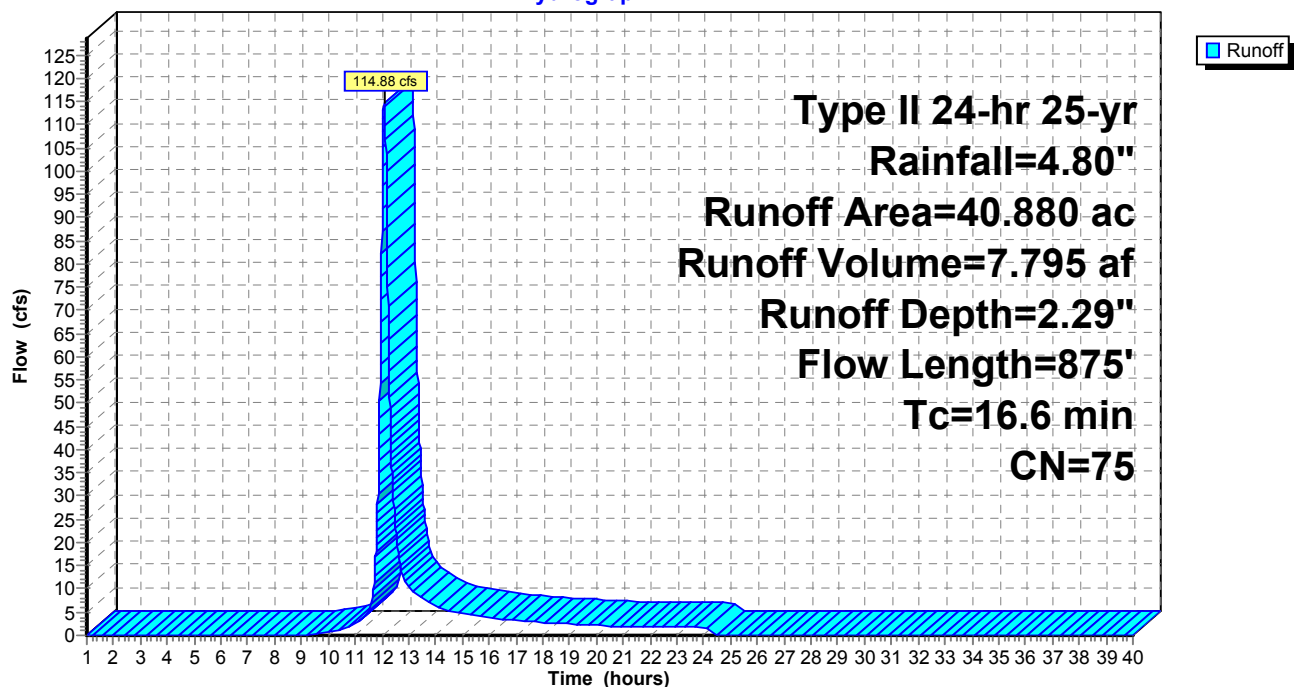
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
40.880	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	875	0.0400	0.9		Lag/CN Method,

Subcatchment W75: W75

Hydrograph



Subcatchment W76: W76

Runoff = 69.87 cfs @ 12.40 hrs, Volume= 8.366 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

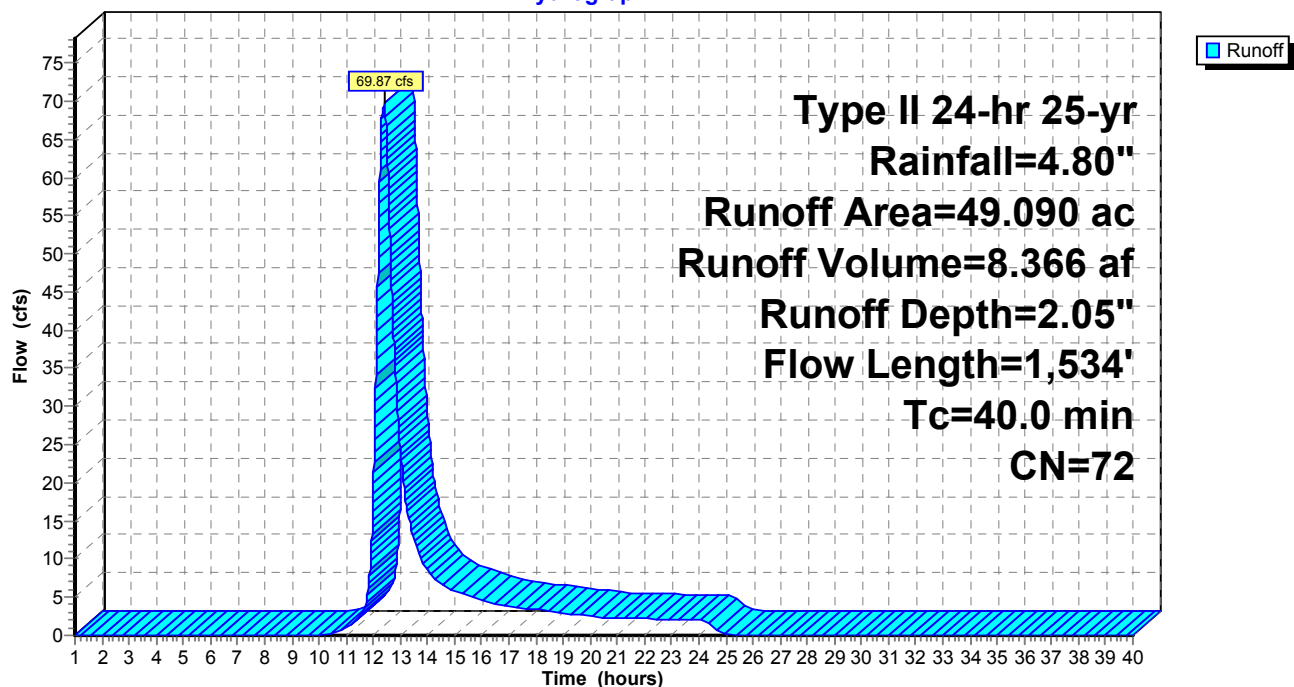
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
49.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.0	1,534	0.0200	0.6		Lag/CN Method,

Subcatchment W76: W76

Hydrograph



Subcatchment W77: W77

Runoff = 233.79 cfs @ 12.01 hrs, Volume= 12.385 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

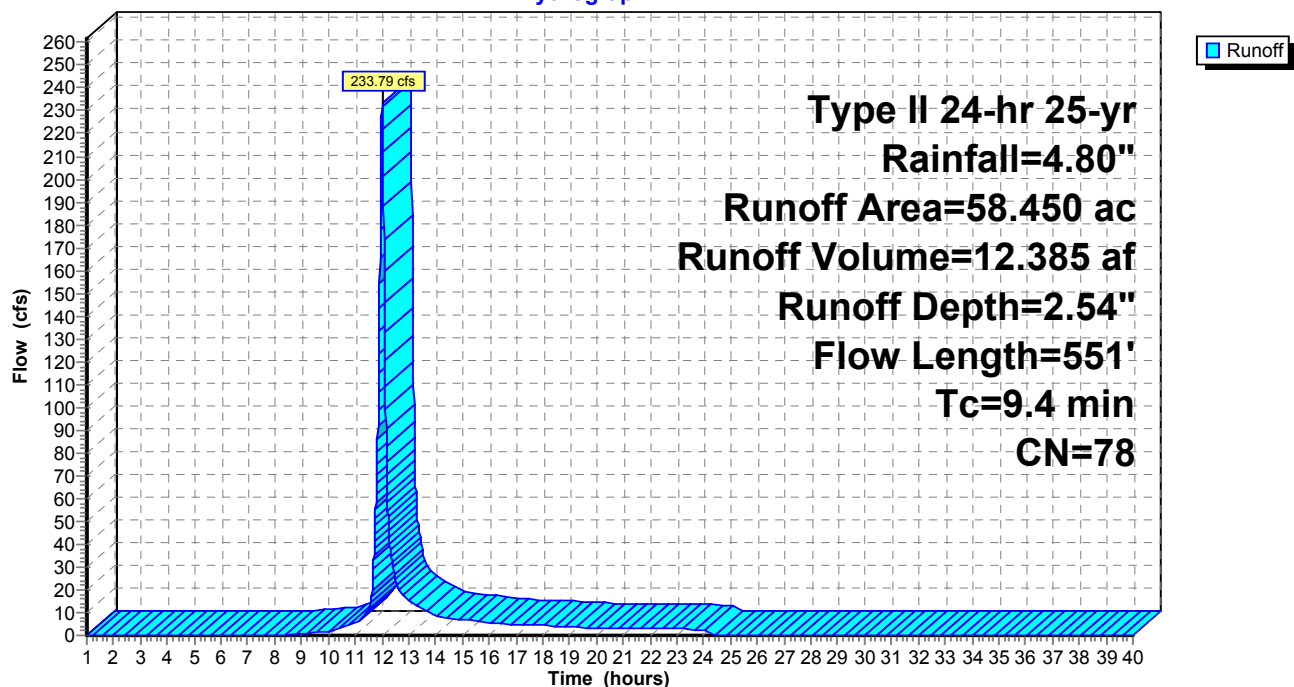
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
58.450	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	551	0.0500	1.0		Lag/CN Method,

Subcatchment W77: W77

Hydrograph



Subcatchment W79: W79

Runoff = 38.44 cfs @ 12.61 hrs, Volume= 5.916 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

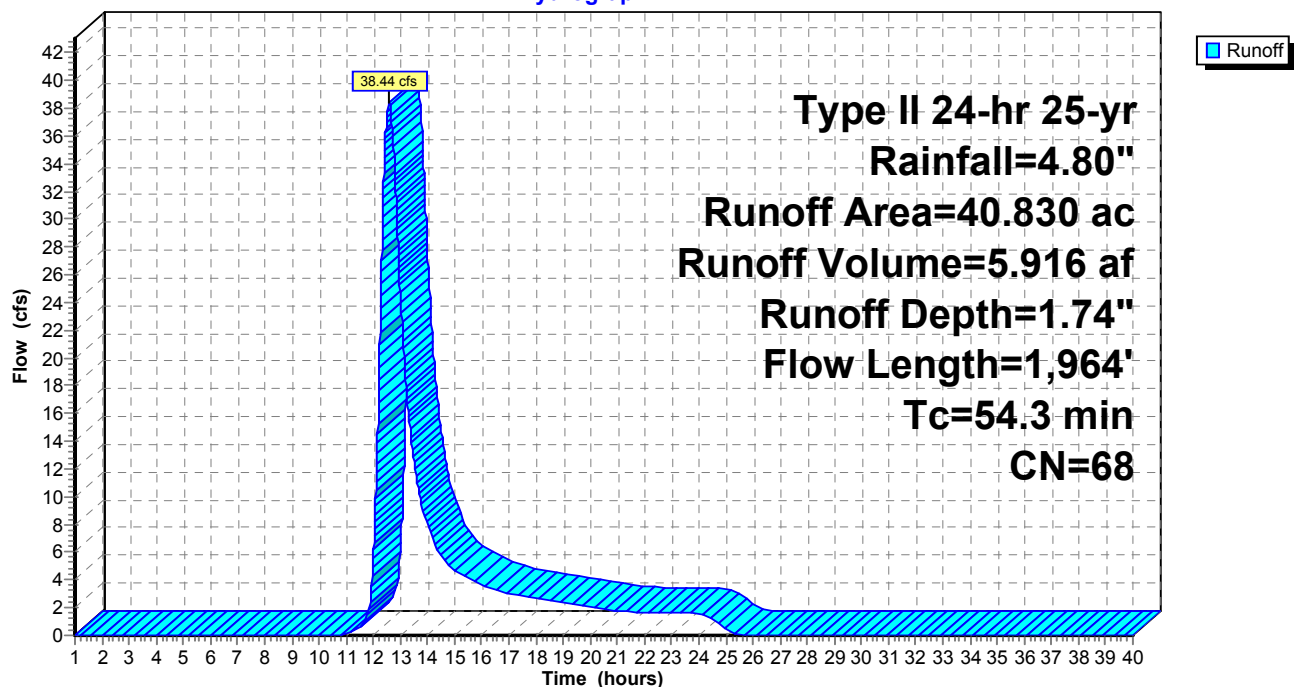
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
40.830	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.3	1,964	0.0200	0.6		Lag/CN Method,

Subcatchment W79: W79

Hydrograph



Subcatchment W80: W80

Runoff = 127.12 cfs @ 12.32 hrs, Volume= 13.602 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

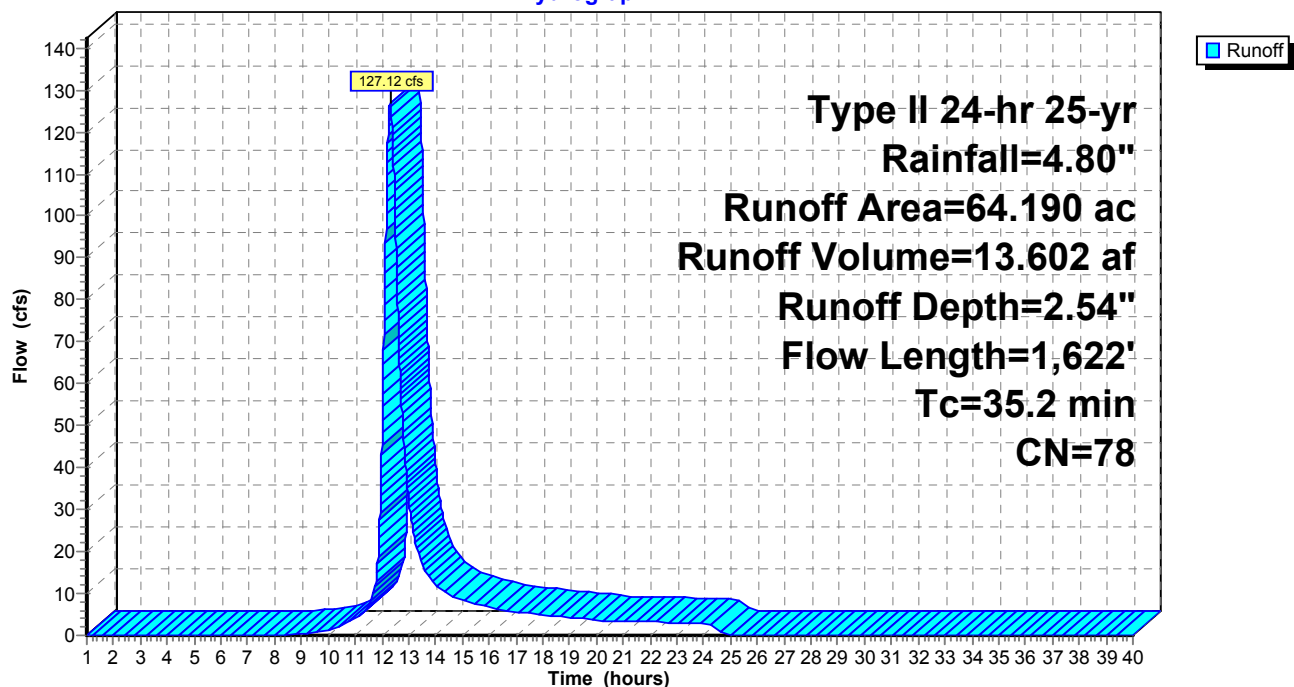
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
64.190	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.2	1,622	0.0200	0.8		Lag/CN Method,

Subcatchment W80: W80

Hydrograph



Subcatchment W81: W81

Runoff = 61.70 cfs @ 11.96 hrs, Volume= 3.068 af, Depth= 3.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

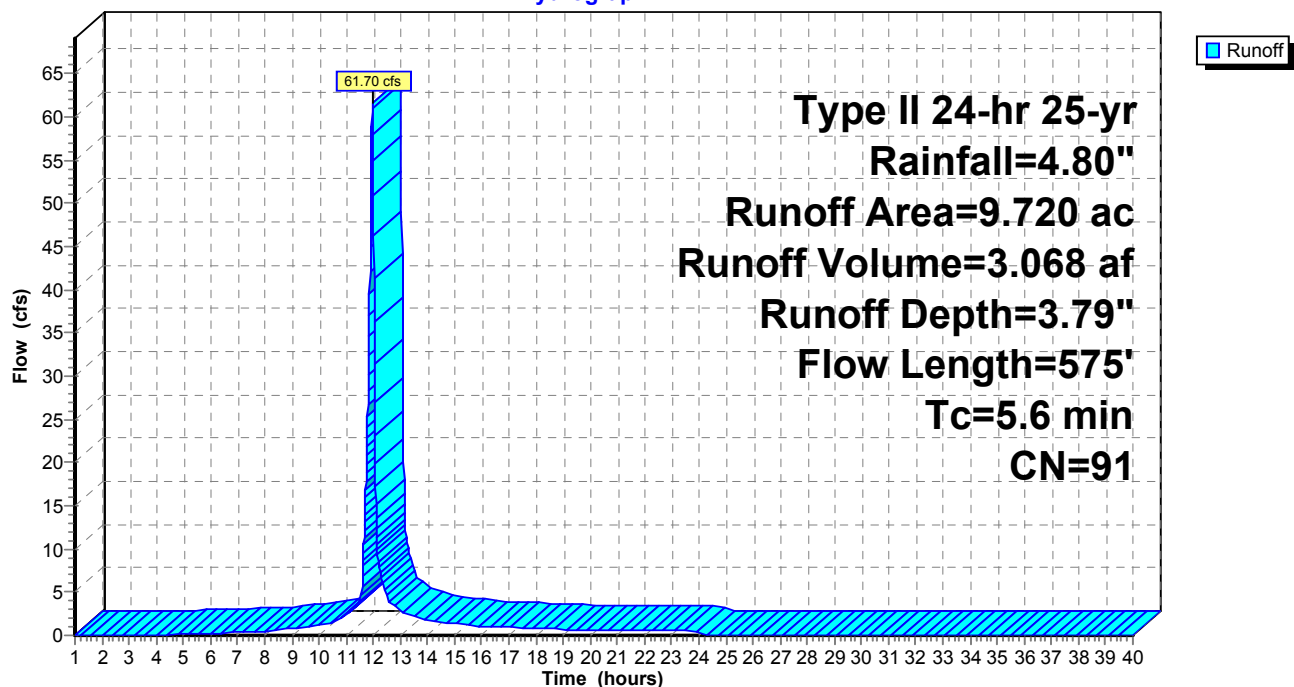
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.720	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	575	0.0600	1.7		Lag/CN Method,

Subcatchment W81: W81

Hydrograph



Subcatchment W82: W82

Runoff = 57.48 cfs @ 12.06 hrs, Volume= 3.554 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

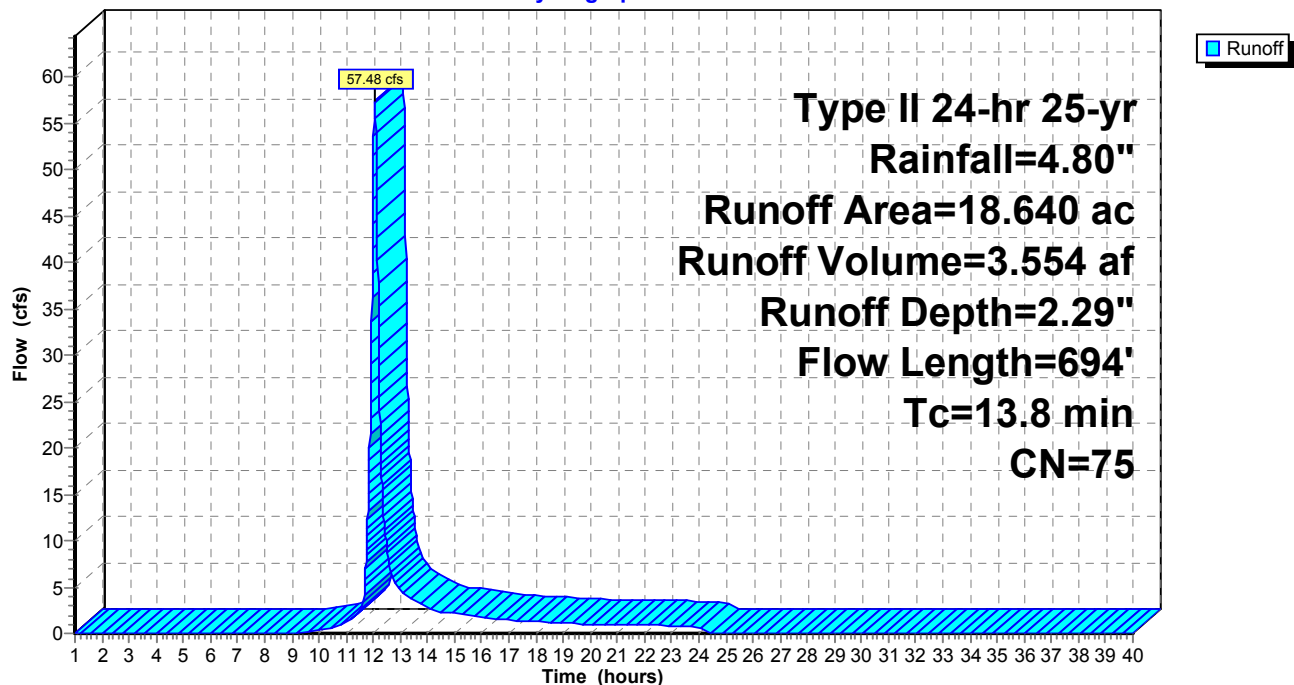
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.640	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	694	0.0400	0.8		Lag/CN Method,

Subcatchment W82: W82

Hydrograph



Subcatchment W83: W83

Runoff = 12.94 cfs @ 12.25 hrs, Volume= 1.356 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

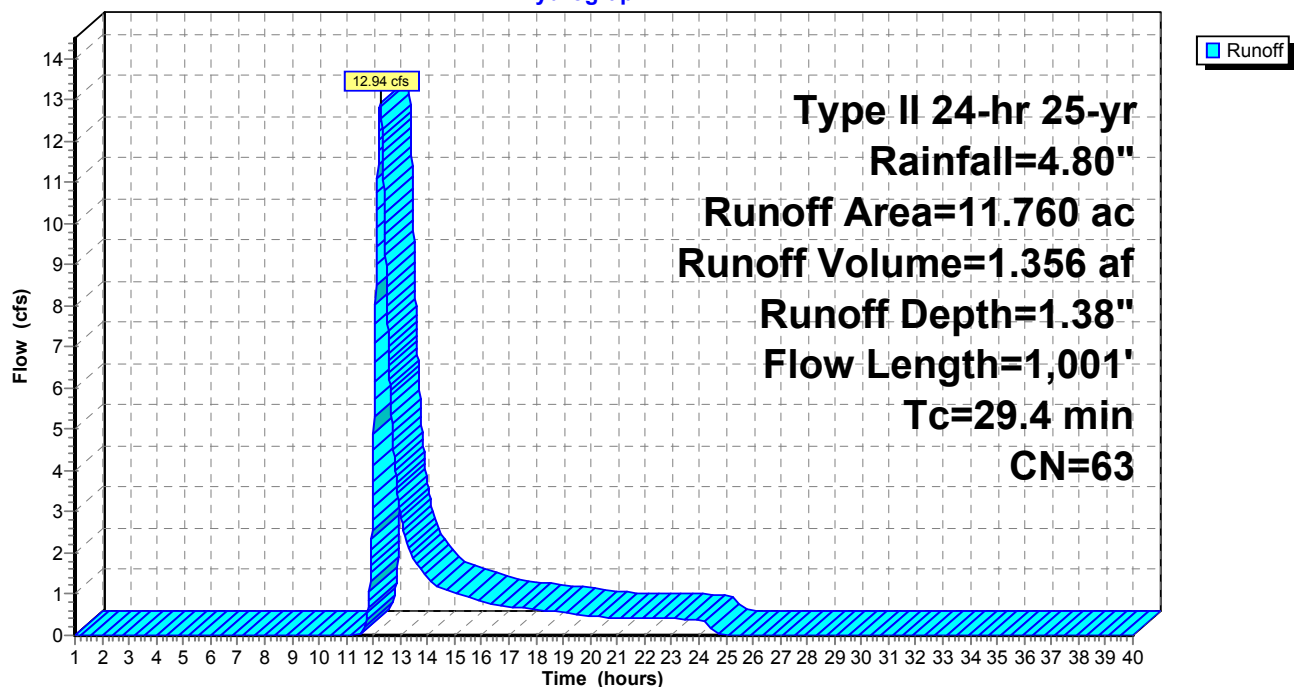
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
11.760	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,001	0.0300	0.6		Lag/CN Method,

Subcatchment W83: W83

Hydrograph



Subcatchment W84: W84

Runoff = 48.05 cfs @ 12.13 hrs, Volume= 3.588 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

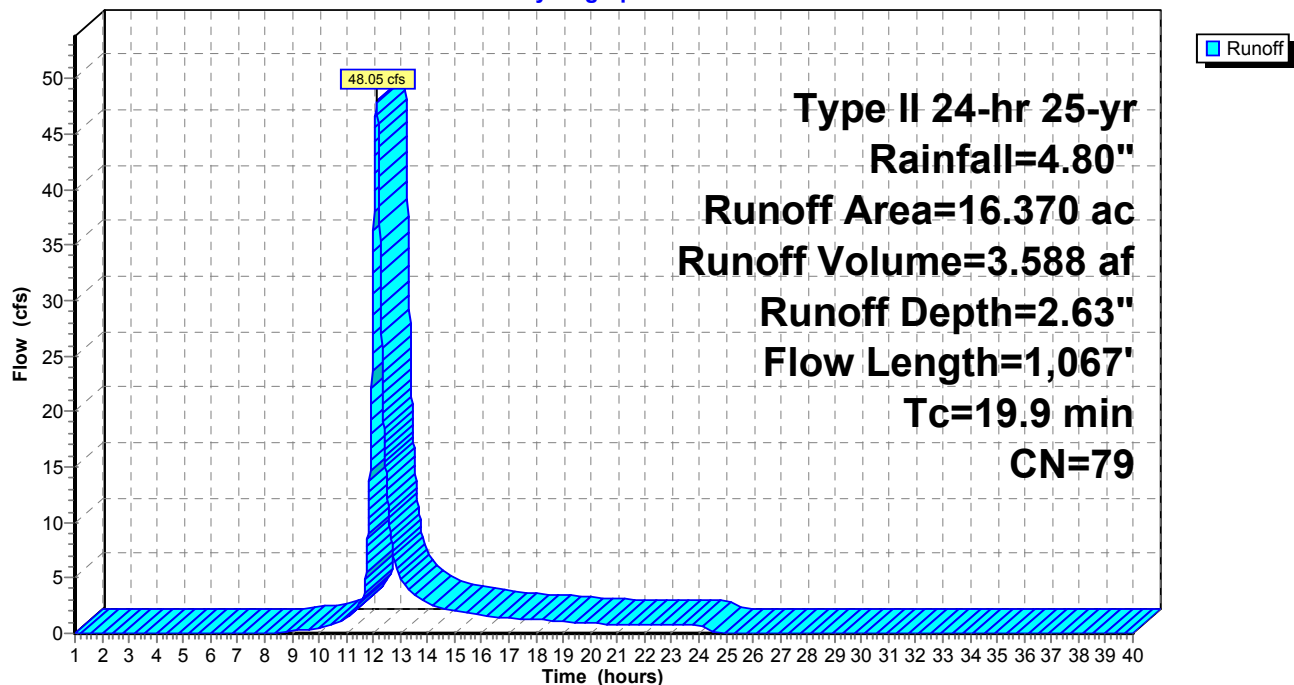
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
16.370	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,067	0.0300	0.9		Lag/CN Method,

Subcatchment W84: W84

Hydrograph



Subcatchment W85: W85

Runoff = 32.79 cfs @ 11.99 hrs, Volume= 1.777 af, Depth= 3.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

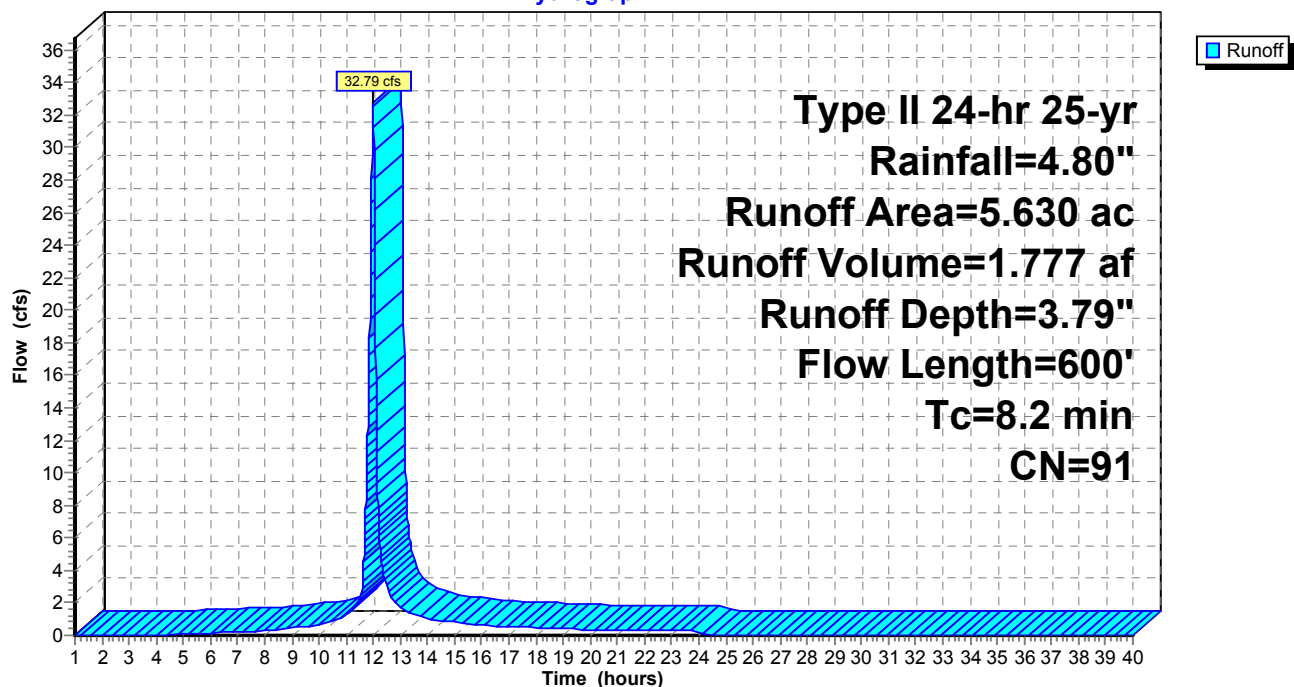
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
5.630	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	600	0.0300	1.2		Lag/CN Method,

Subcatchment W85: W85

Hydrograph



Subcatchment W86: W86

Runoff = 4.87 cfs @ 12.19 hrs, Volume= 0.729 af, Depth= 0.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

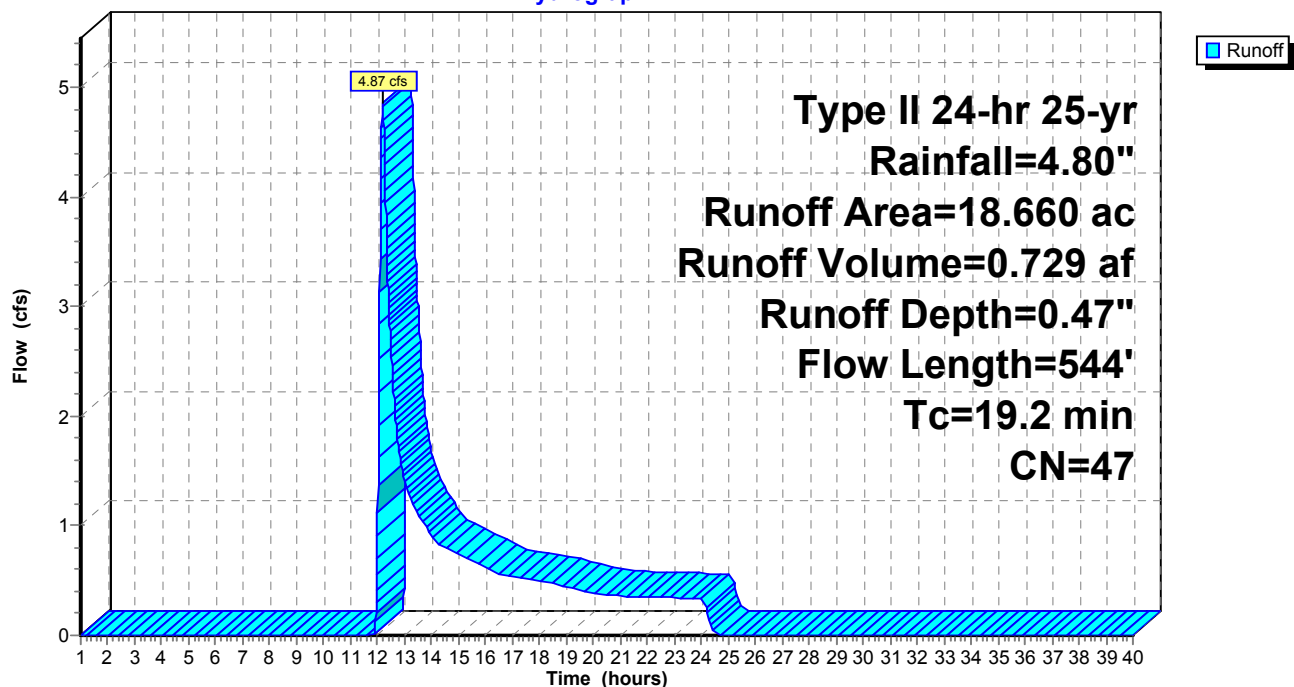
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
18.660	47	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	544	0.0600	0.5		Lag/CN Method,

Subcatchment W86: W86

Hydrograph



Subcatchment W87: W87

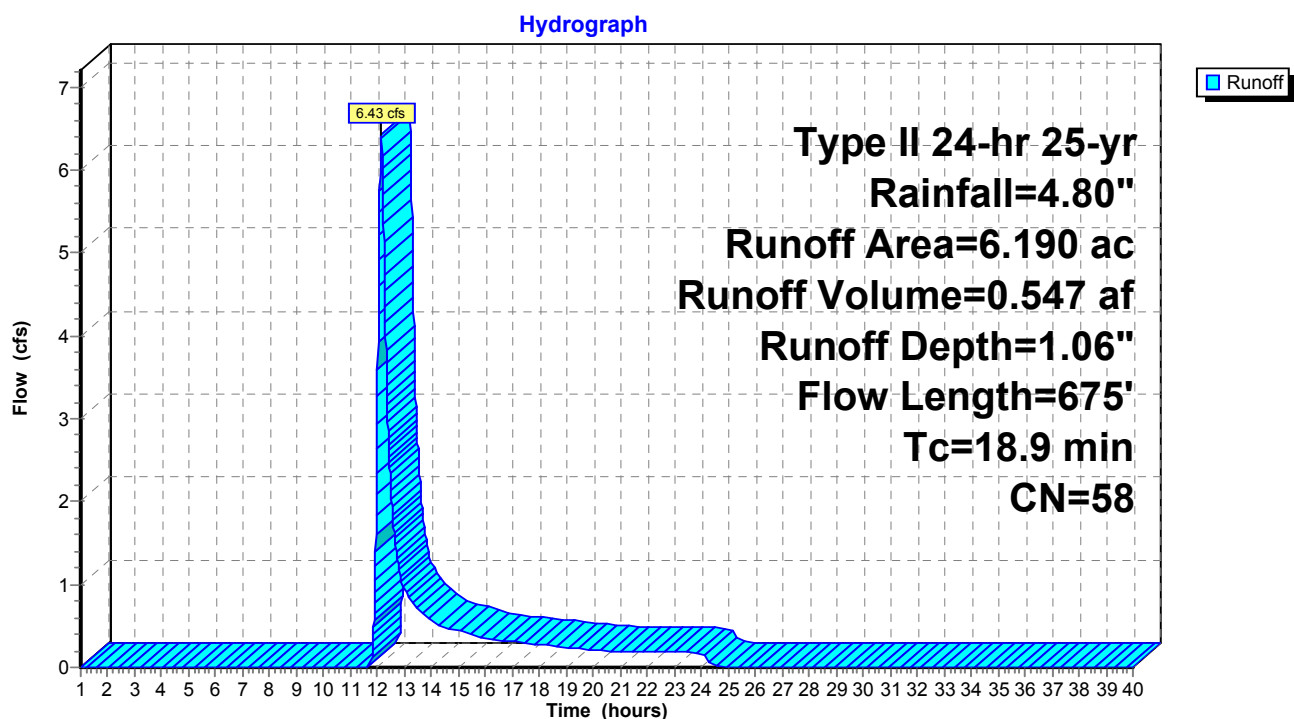
Runoff = 6.43 cfs @ 12.14 hrs, Volume= 0.547 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
6.190	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.9	675	0.0500	0.6		Lag/CN Method,

Subcatchment W87: W87

Subcatchment W88: W88

Runoff = 16.11 cfs @ 12.16 hrs, Volume= 1.495 af, Depth= 0.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

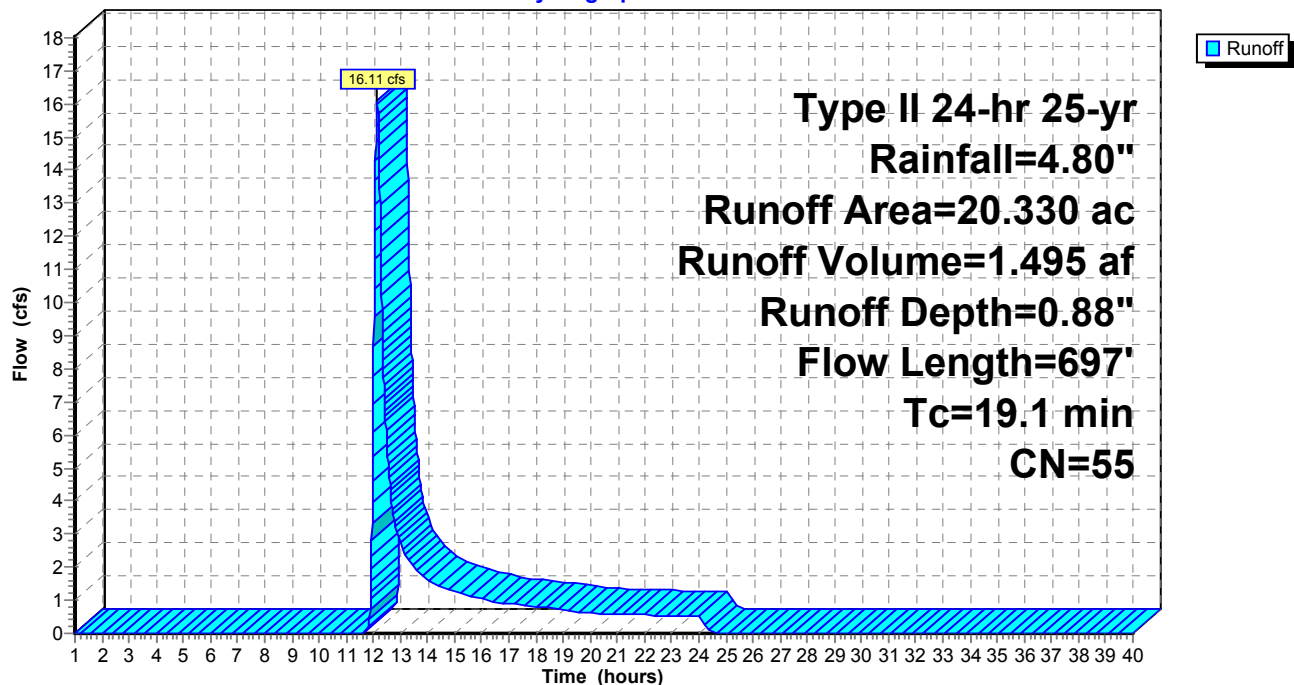
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
20.330	55	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	697	0.0600	0.6		Lag/CN Method,

Subcatchment W88: W88

Hydrograph



Subcatchment W89: W89

Runoff = 75.61 cfs @ 12.51 hrs, Volume= 10.562 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

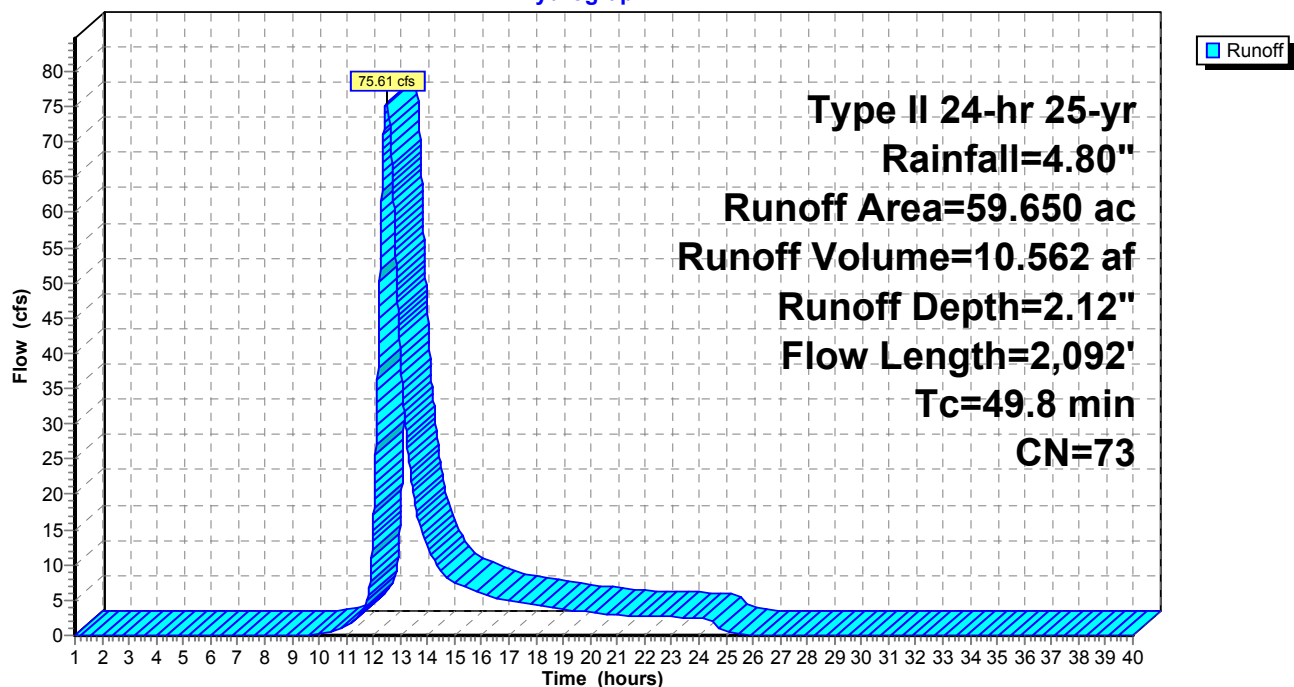
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
59.650	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	2,092	0.0200	0.7		Lag/CN Method,

Subcatchment W89: W89

Hydrograph



Subcatchment W90: W90

Runoff = 56.25 cfs @ 13.27 hrs, Volume= 13.833 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

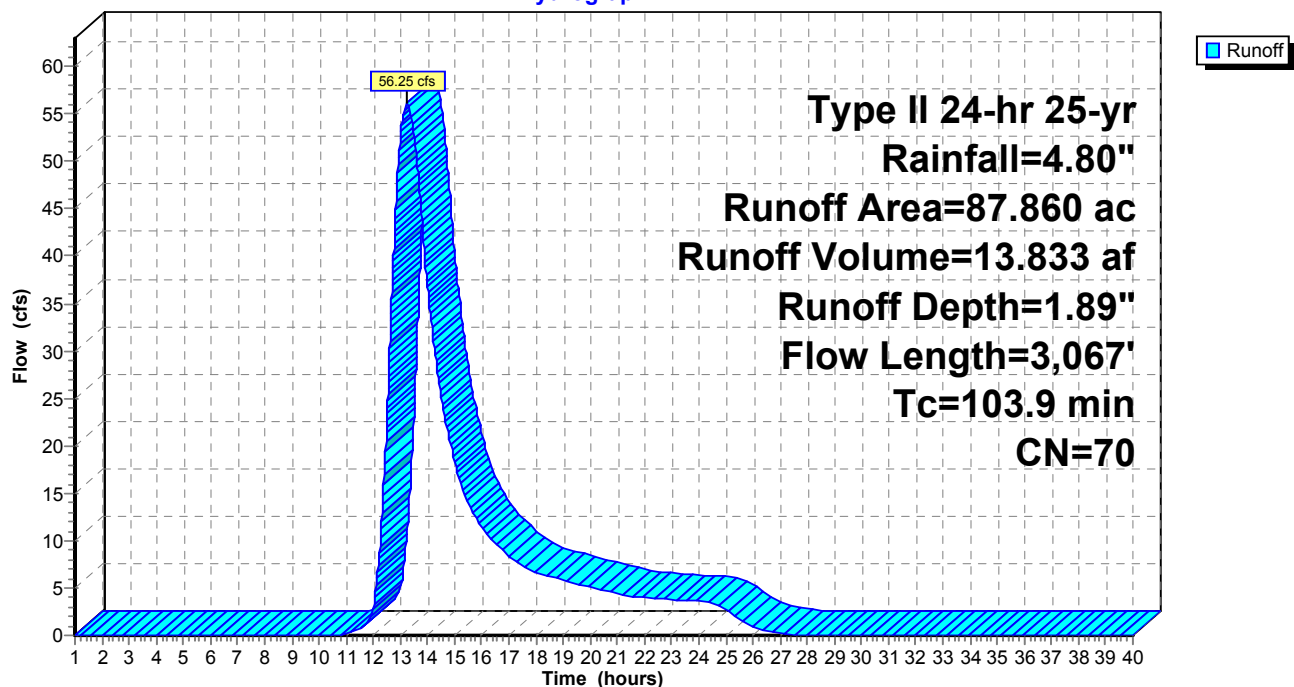
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
87.860	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
103.9	3,067	0.0100	0.5		Lag/CN Method,

Subcatchment W90: W90

Hydrograph



Subcatchment W91: W91

Runoff = 39.96 cfs @ 12.46 hrs, Volume= 5.284 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

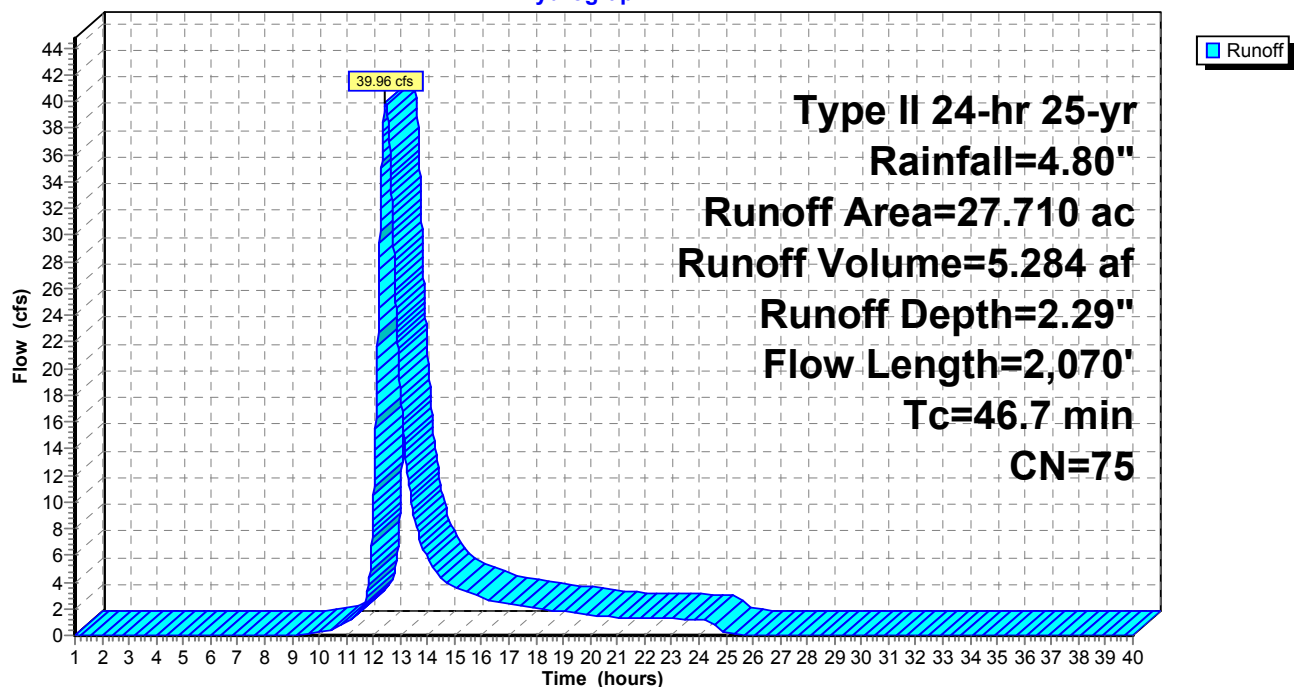
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
27.710	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	2,070	0.0200	0.7		Lag/CN Method,

Subcatchment W91: W91

Hydrograph



Subcatchment W92: W92

Runoff = 43.79 cfs @ 12.25 hrs, Volume= 4.208 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

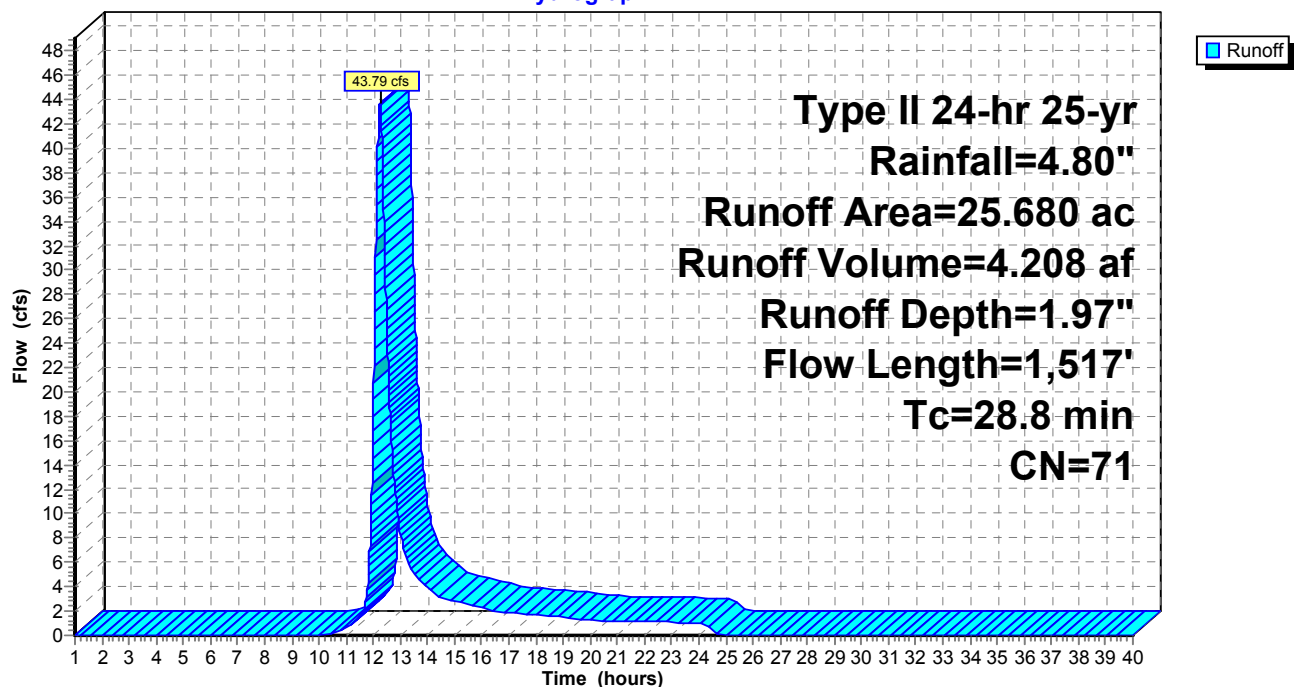
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
25.680	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	1,517	0.0400	0.9		Lag/CN Method,

Subcatchment W92: W92

Hydrograph



Subcatchment W93: W93

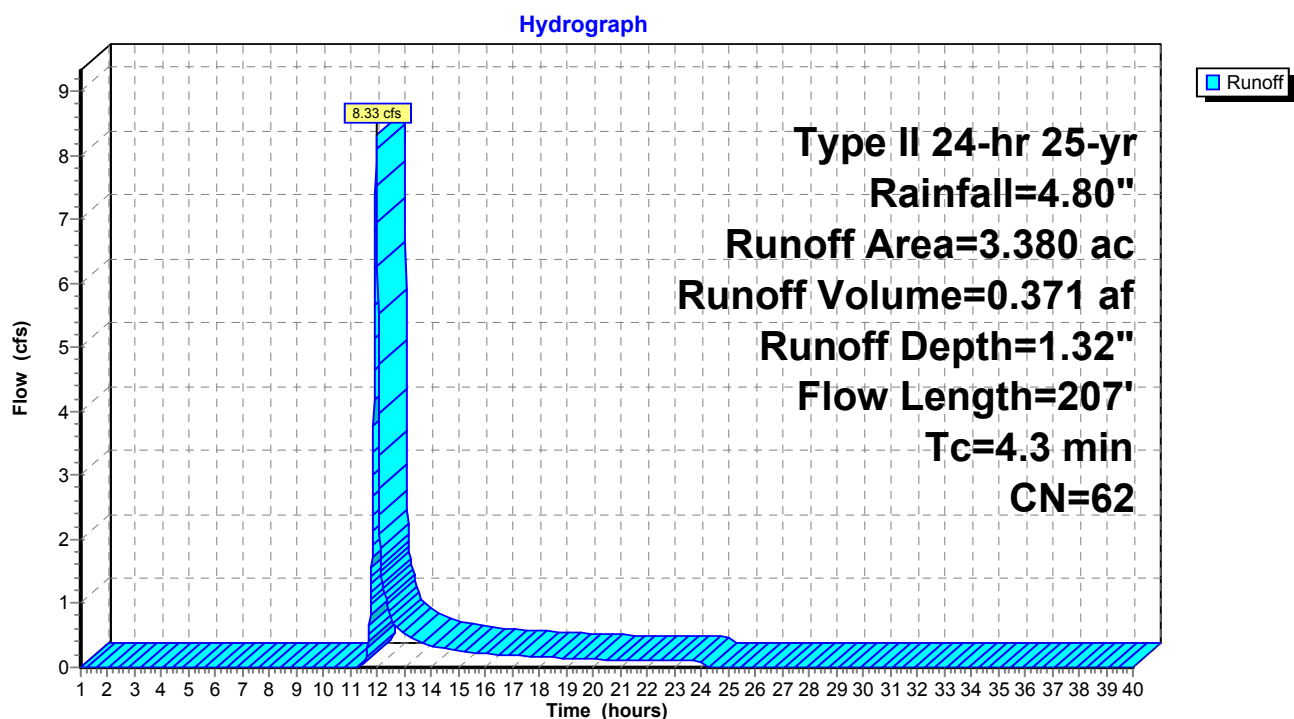
Runoff = 8.33 cfs @ 11.96 hrs, Volume= 0.371 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
3.380	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	207	0.1200	0.8		Lag/CN Method,

Subcatchment W93: W93

Subcatchment W94: W94

Runoff = 22.85 cfs @ 12.53 hrs, Volume= 3.510 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

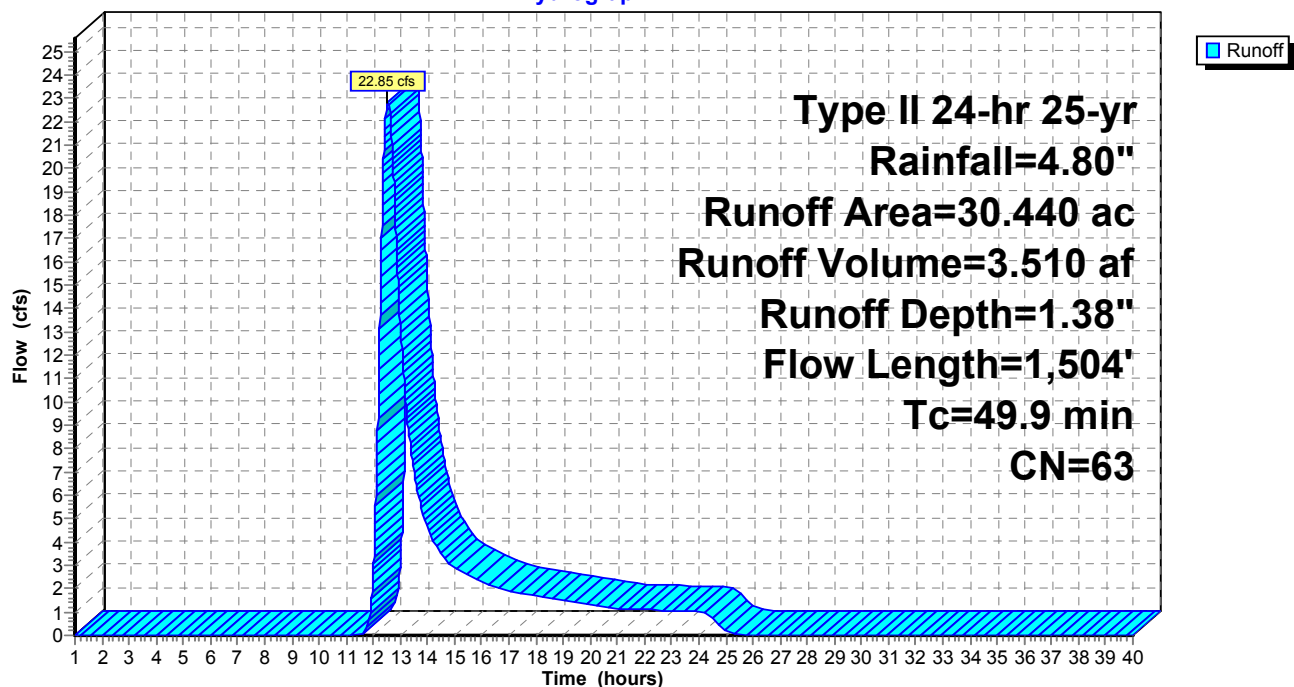
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
30.440	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.9	1,504	0.0200	0.5		Lag/CN Method,

Subcatchment W94: W94

Hydrograph



Subcatchment W95: W95

Runoff = 1.79 cfs @ 12.14 hrs, Volume= 0.284 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

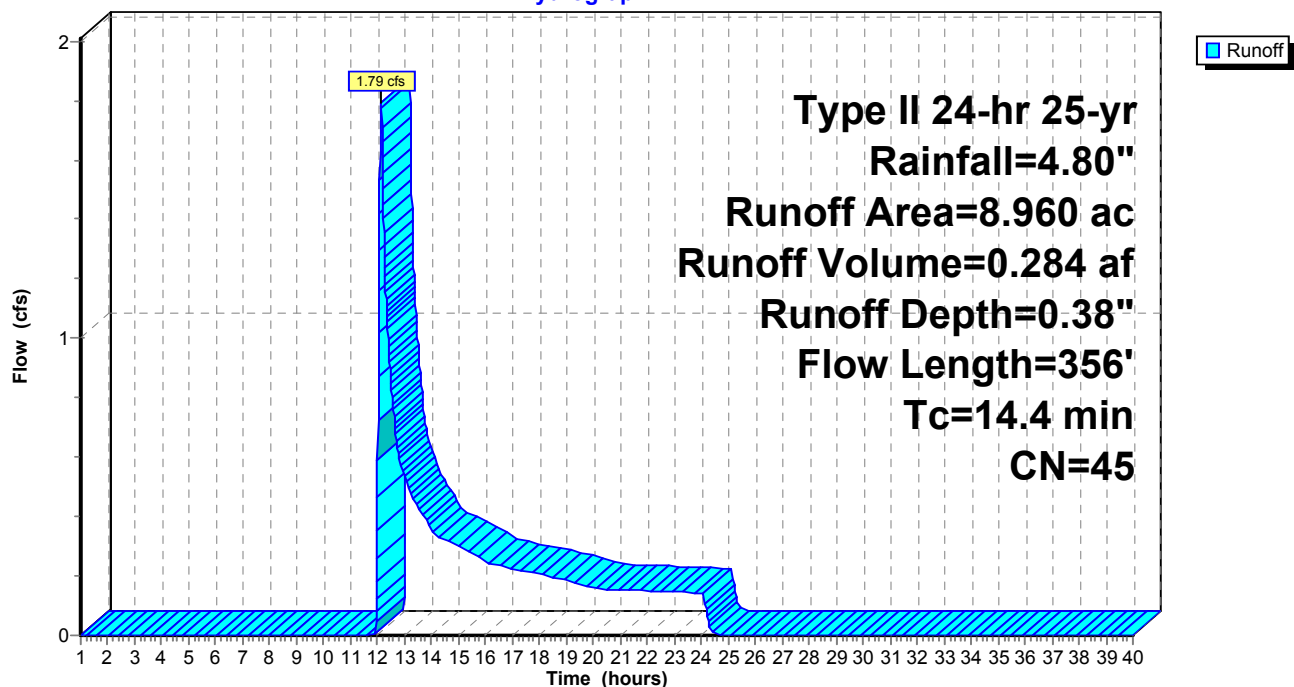
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
8.960	45	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.4	356	0.0600	0.4		Lag/CN Method,

Subcatchment W95: W95

Hydrograph



Subcatchment W96: W96

Runoff = 33.34 cfs @ 12.17 hrs, Volume= 2.740 af, Depth= 2.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

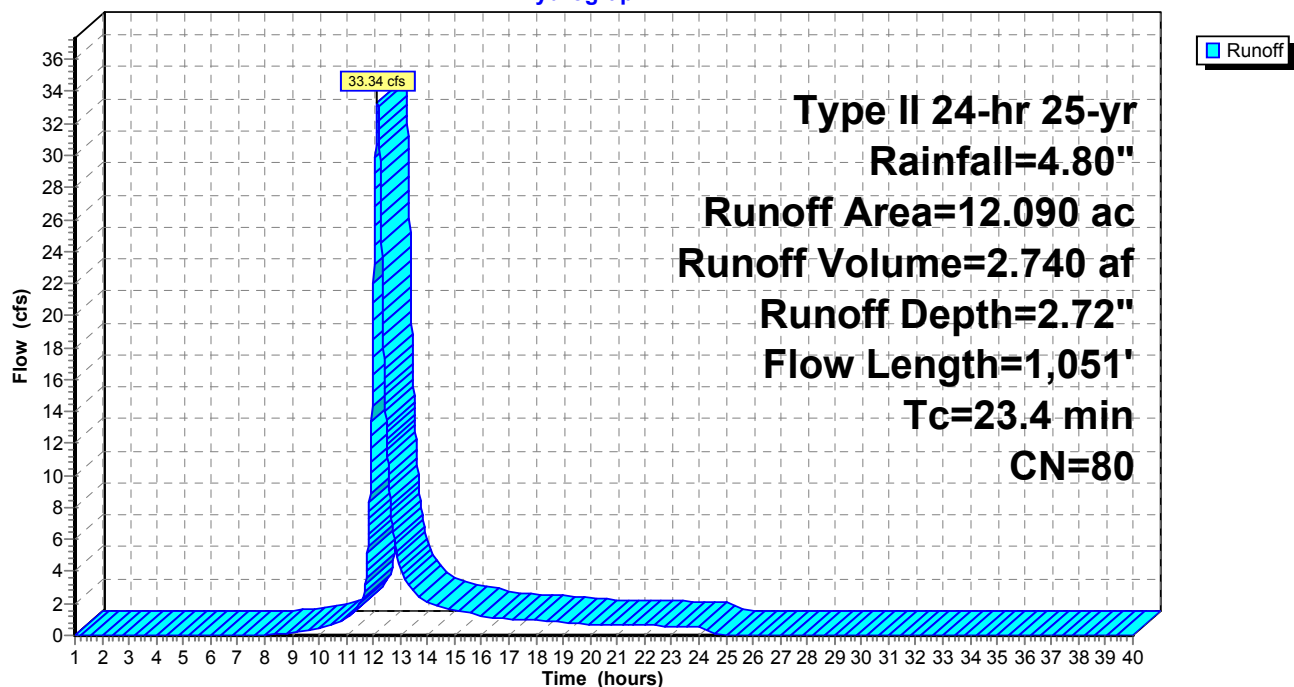
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
12.090	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,051	0.0200	0.7		Lag/CN Method,

Subcatchment W96: W96

Hydrograph



Subcatchment W97: W97

Runoff = 23.91 cfs @ 12.01 hrs, Volume= 1.255 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

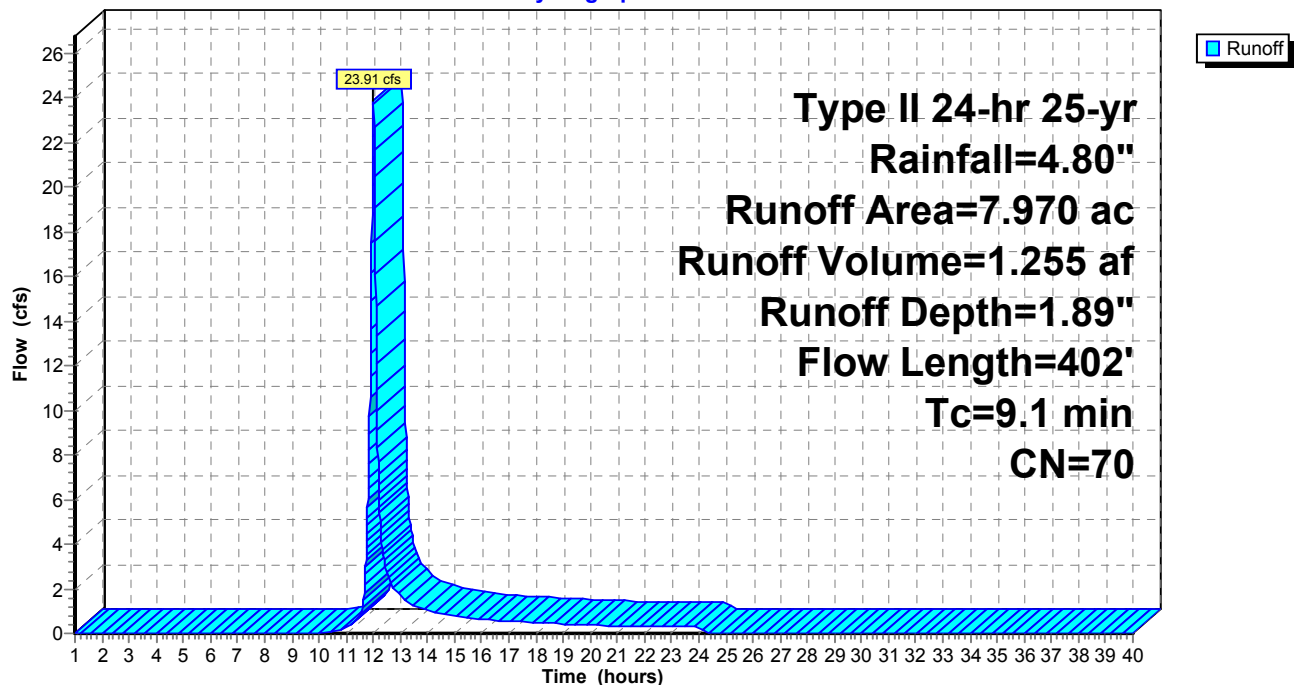
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
7.970	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	402	0.0500	0.7		Lag/CN Method,

Subcatchment W97: W97

Hydrograph



Subcatchment W98: W98

Runoff = 9.65 cfs @ 12.21 hrs, Volume= 0.953 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

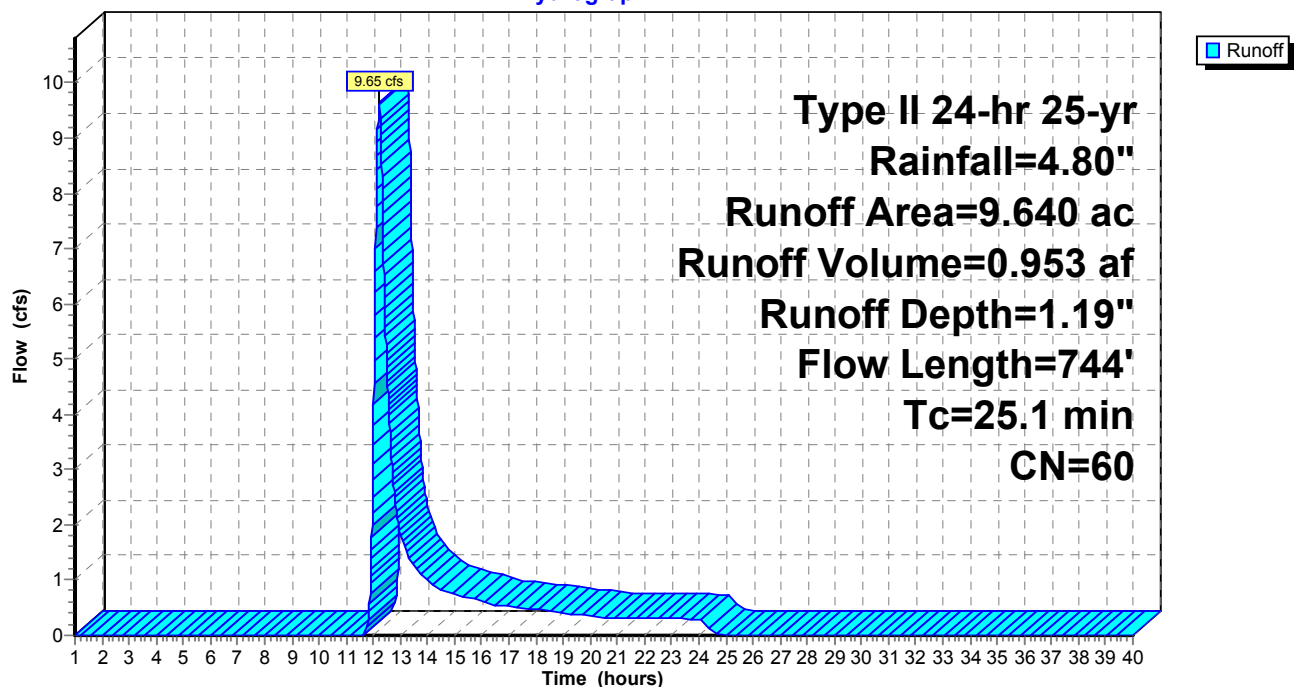
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
9.640	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	744	0.0300	0.5		Lag/CN Method,

Subcatchment W98: W98

Hydrograph



Subcatchment W99: W99

Runoff = 10.04 cfs @ 12.00 hrs, Volume= 0.511 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

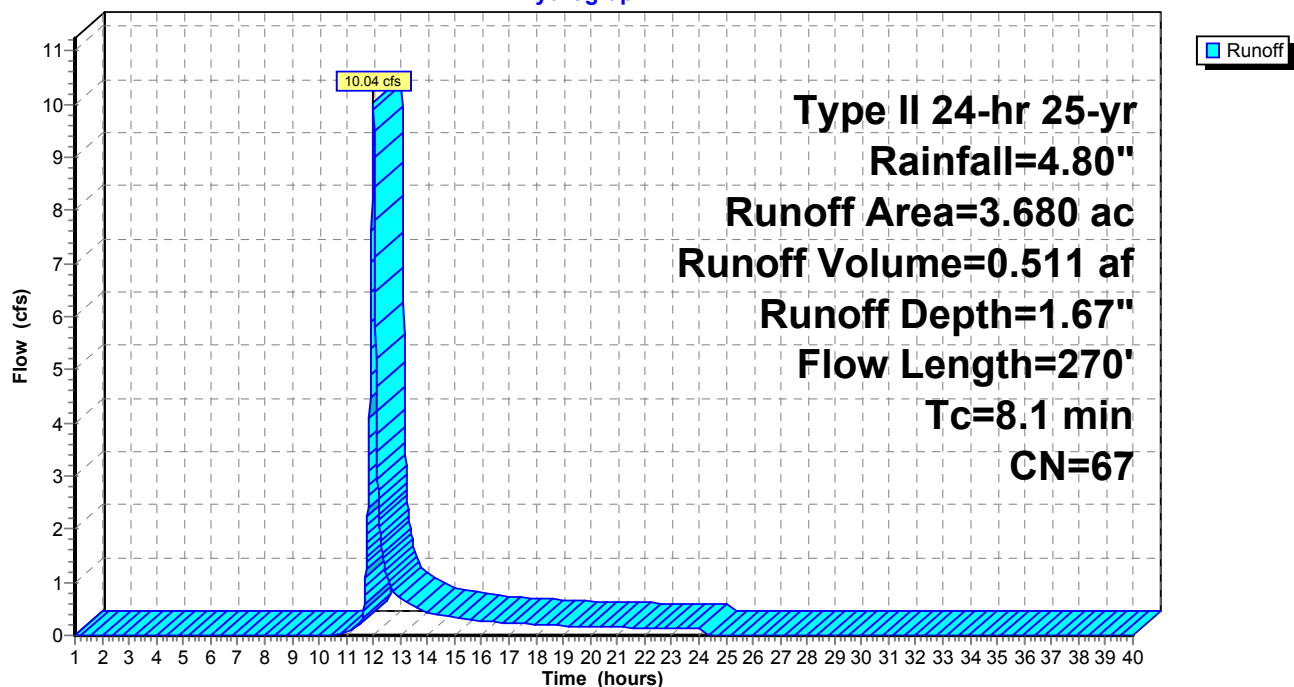
Type II 24-hr 25-yr Rainfall=4.80"

Area (ac)	CN	Description
3.680	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	270	0.0400	0.6		Lag/CN Method,

Subcatchment W99: W99

Hydrograph



Reach 4R: (new Reach)

Inflow Area = 47.571 ac, Inflow Depth > 1.22" for 25-yr event
Inflow = 3.87 cfs @ 15.43 hrs, Volume= 4.825 af
Outflow = 3.87 cfs @ 15.52 hrs, Volume= 4.813 af, Atten= 0%, Lag= 5.4 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.0 fps, Min. Travel Time= 8.0 min

Avg. Velocity = 1.5 fps, Avg. Travel Time= 10.4 min

Peak Depth= 0.32' @ 15.52 hrs

Capacity at bank full= 1,161.31 cfs

Inlet Invert= 980.00', Outlet Invert= 968.00'

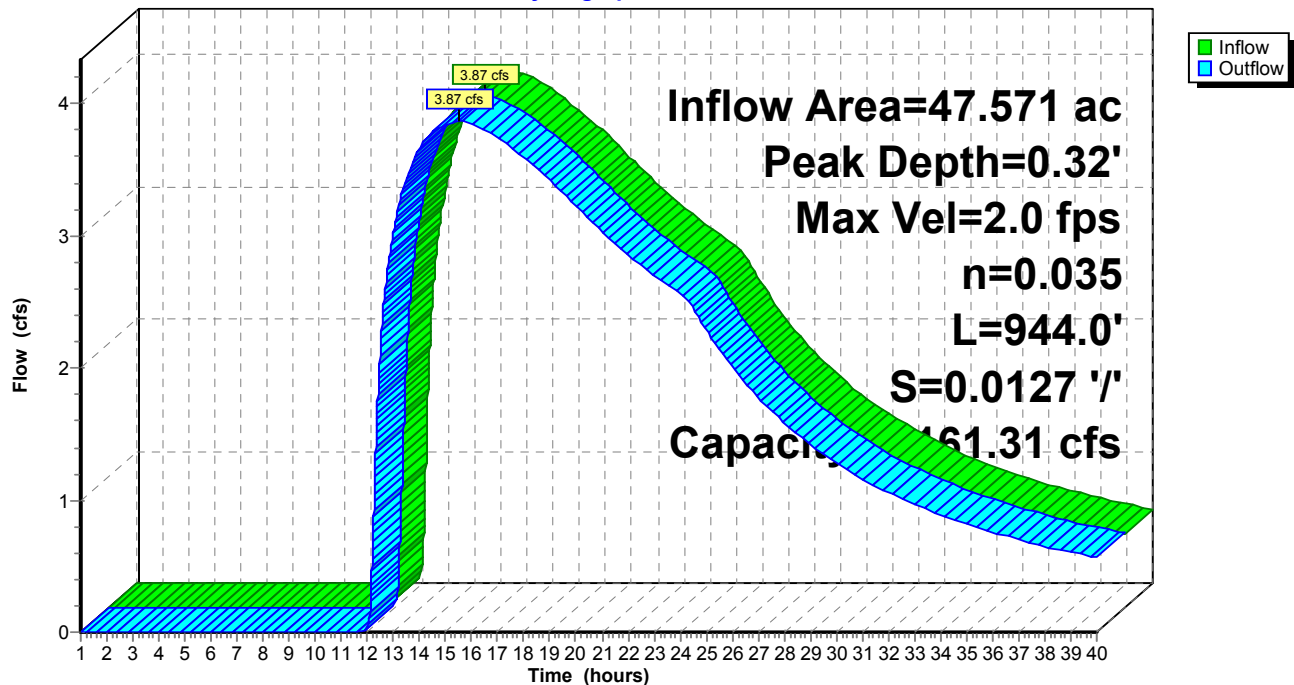
5.00' x 5.00' deep channel, n= 0.035 Earth, dense weeds

Side Slope Z-value= 4.0 '/' Top Width= 45.00'

Length= 944.0' Slope= 0.0127 '/'

Reach 4R: (new Reach)

Hydrograph



Reach 6R: (new Reach)

Inflow Area = 18.570 ac, Inflow Depth = 2.50" for 25-yr event
Inflow = 93.49 cfs @ 11.94 hrs, Volume= 3.862 af
Outflow = 84.25 cfs @ 11.98 hrs, Volume= 3.862 af, Atten= 10%, Lag= 2.3 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.2 fps, Min. Travel Time= 2.6 min

Avg. Velocity = 1.1 fps, Avg. Travel Time= 7.8 min

Peak Depth= 2.17' @ 11.98 hrs

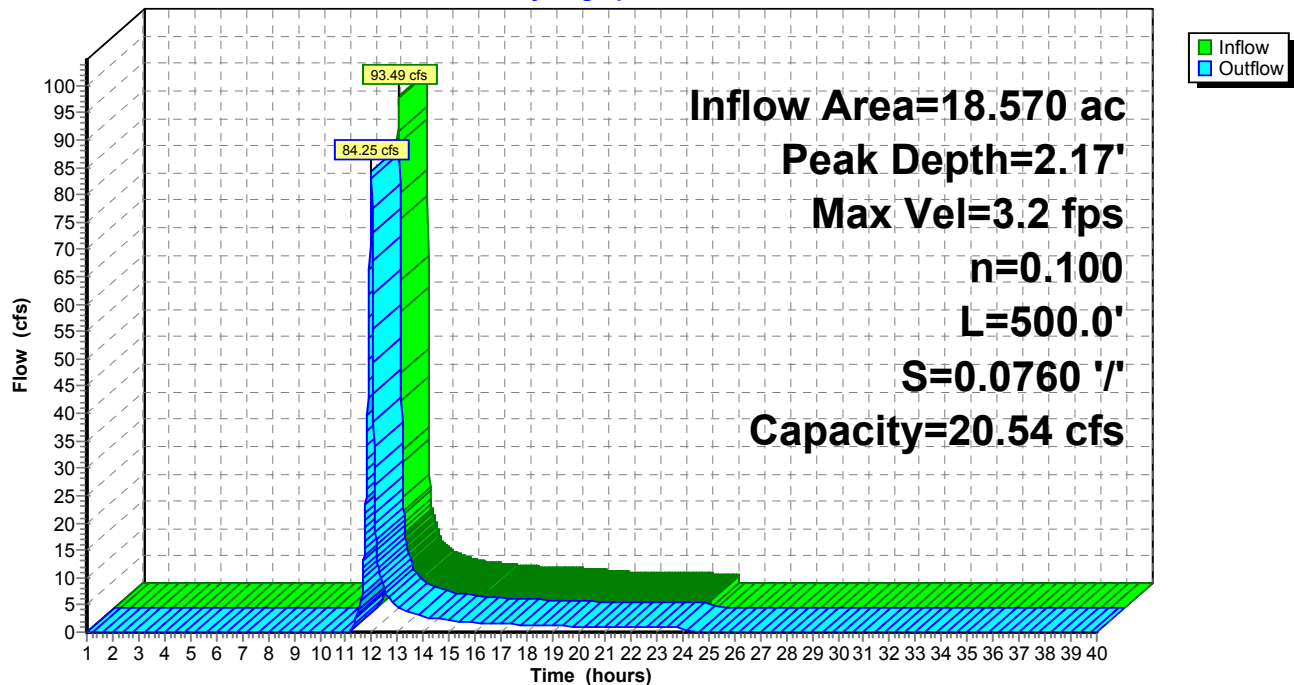
Capacity at bank full= 20.54 cfs

Inlet Invert= 1,108.00', Outlet Invert= 1,070.00'

0.00' x 1.00' deep channel, n= 0.100 Earth, dense brush, high stage

Side Slope Z-value= 8.0 '/' Top Width= 16.00'

Length= 500.0' Slope= 0.0760 '/'

Reach 6R: (new Reach)**Hydrograph**

Reach A1R: A1R

Inflow Area = 36.474 ac, Inflow Depth > 1.33" for 25-yr event
Inflow = 3.60 cfs @ 15.17 hrs, Volume= 4.035 af
Outflow = 3.60 cfs @ 15.23 hrs, Volume= 4.029 af, Atten= 0%, Lag= 3.3 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.4 fps, Min. Travel Time= 4.9 min

Avg. Velocity = 2.5 fps, Avg. Travel Time= 6.6 min

Peak Depth= 0.29' @ 15.23 hrs

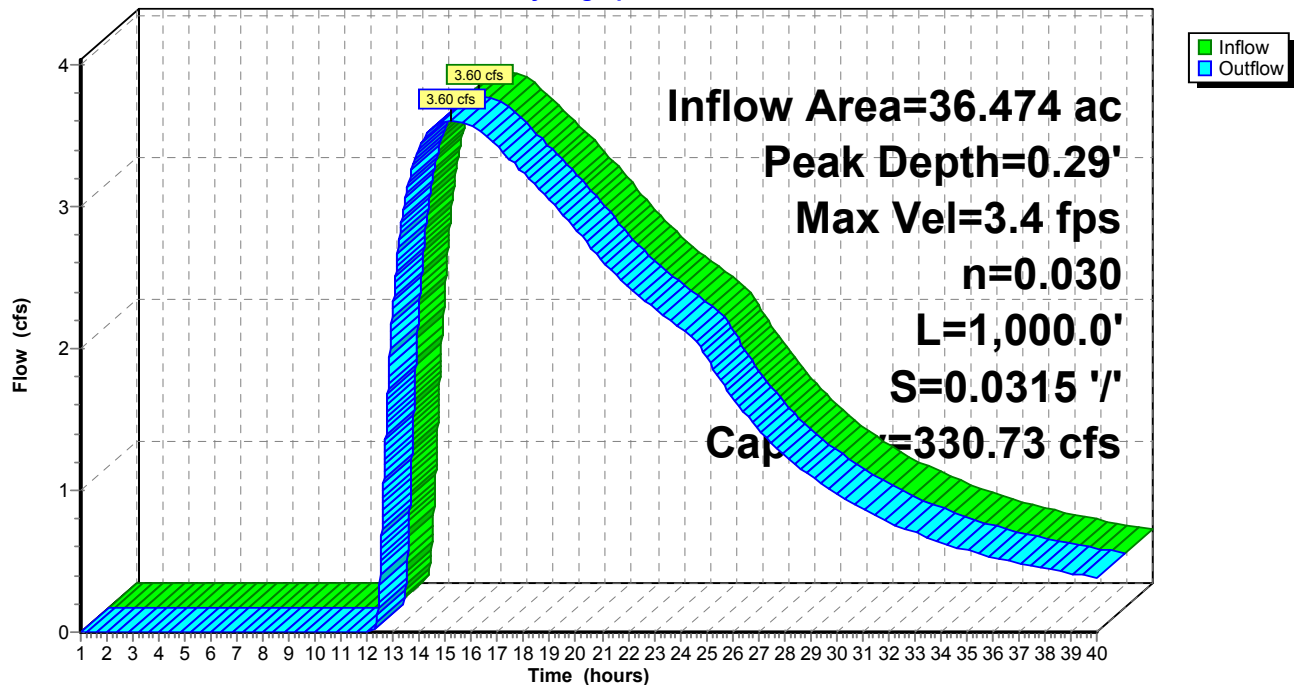
Capacity at bank full= 330.73 cfs

Inlet Invert= 1,092.50', Outlet Invert= 1,061.00'

3.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 15.00'

Length= 1,000.0' Slope= 0.0315 '/'

Reach A1R: A1R**Hydrograph**

Reach A4R: A4R

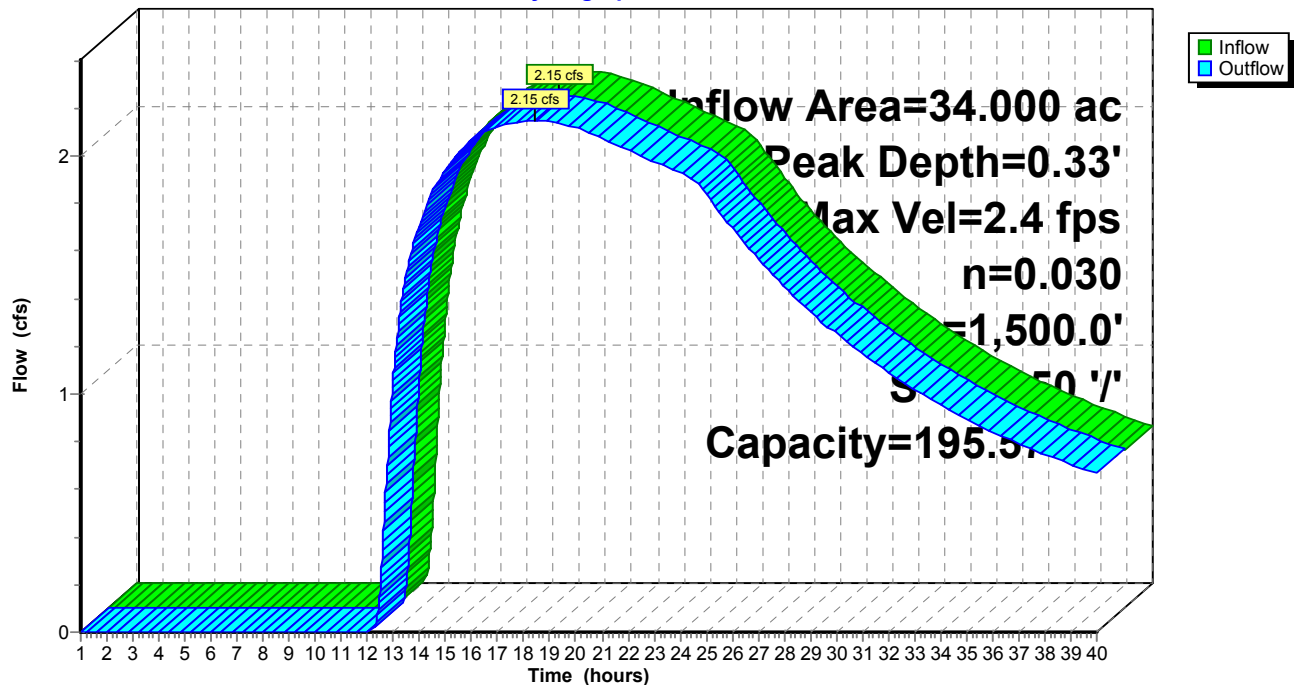
Inflow Area = 34.000 ac, Inflow Depth > 1.20" for 25-yr event
 Inflow = 2.15 cfs @ 18.28 hrs, Volume= 3.400 af
 Outflow = 2.15 cfs @ 18.40 hrs, Volume= 3.386 af, Atten= 0%, Lag= 7.3 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Max. Velocity= 2.4 fps, Min. Travel Time= 10.3 min
 Avg. Velocity = 2.1 fps, Avg. Travel Time= 12.0 min

Peak Depth= 0.33' @ 18.40 hrs
 Capacity at bank full= 195.57 cfs
 Inlet Invert= 1,083.50', Outlet Invert= 1,061.00'
 2.00' x 3.00' deep channel, n= 0.030
 Side Slope Z-value= 2.0 '/' Top Width= 14.00'
 Length= 1,500.0' Slope= 0.0150 '/'

Reach A4R: A4R

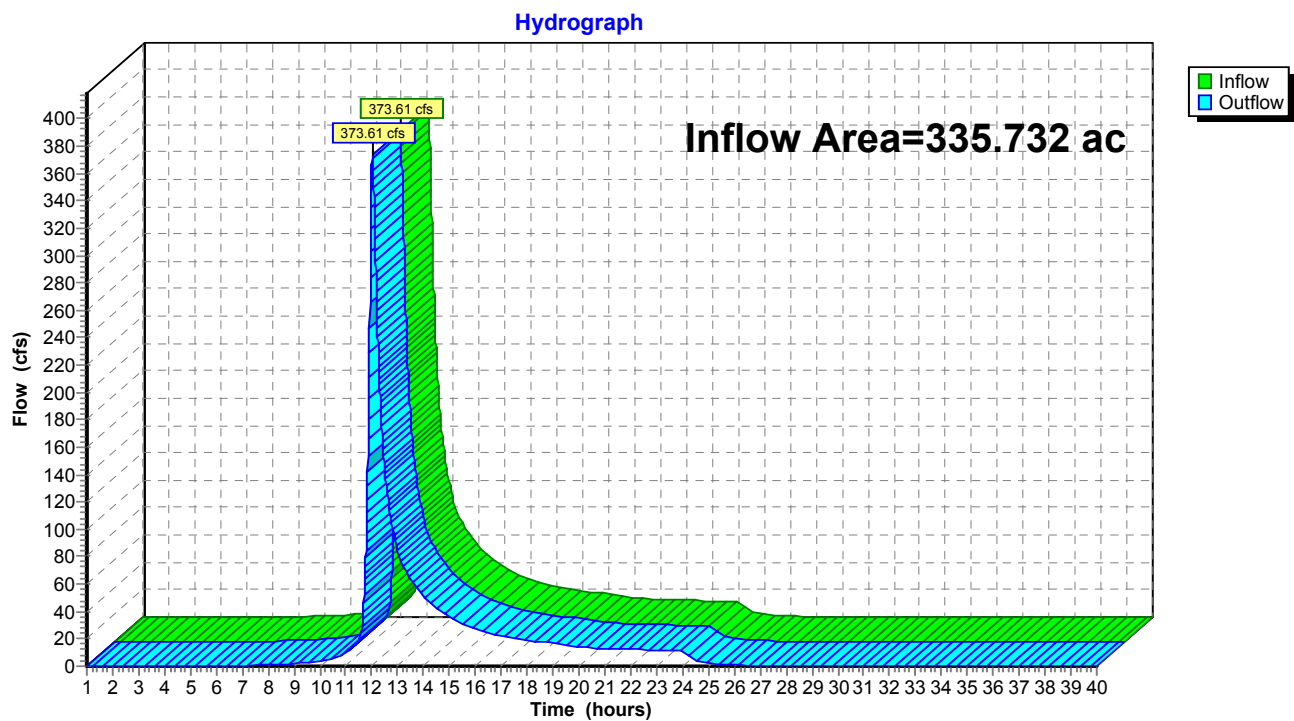
Hydrograph



Reach Apple River 1: Apple River-Above Dam

Inflow Area = 335.732 ac, Inflow Depth = 1.57" for 25-yr event
Inflow = 373.61 cfs @ 12.02 hrs, Volume= 43.814 af
Outflow = 373.61 cfs @ 12.02 hrs, Volume= 43.814 af, Atten= 0%, Lag= 0.0 min

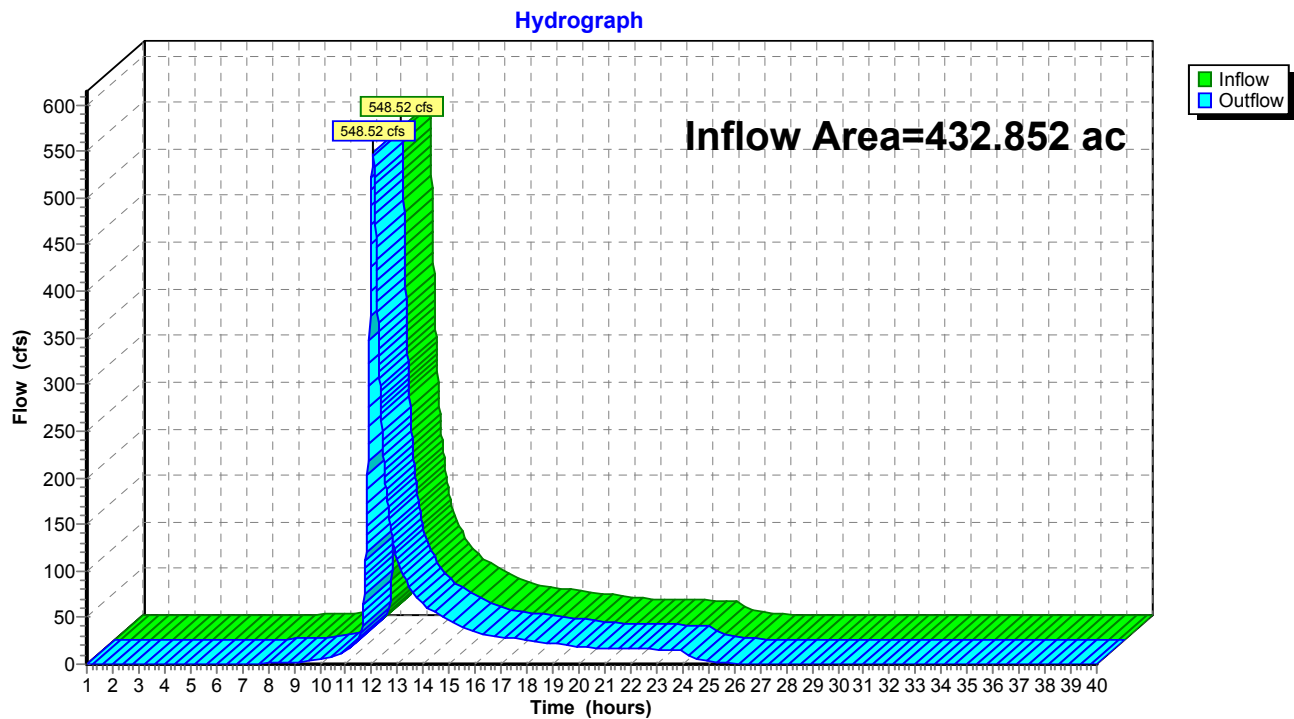
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 1: Apple River-Above Dam

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Inflow Area = 432.852 ac, Inflow Depth = 1.67" for 25-yr event
Inflow = 548.52 cfs @ 12.04 hrs, Volume= 60.076 af
Outflow = 548.52 cfs @ 12.04 hrs, Volume= 60.076 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

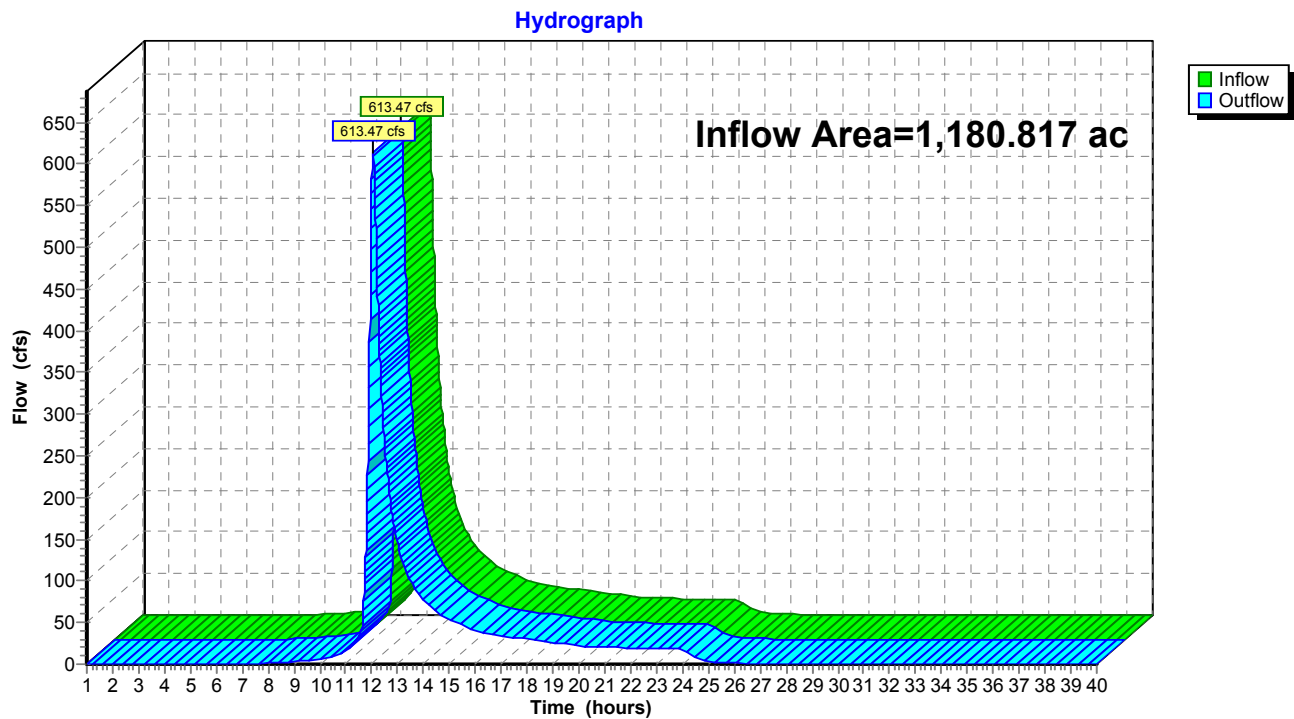
Reach Apple River 3: Apple River - At South Twin Outlet

Inflow Area = 1,180.817 ac, Inflow Depth > 0.73" for 25-yr event

Inflow = 613.47 cfs @ 12.05 hrs, Volume= 71.835 af

Outflow = 613.47 cfs @ 12.05 hrs, Volume= 71.835 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 3: Apple River - At South Twin Outlet

Reach Apple River 4: Apple River Downstream of South Twin Outlet

Inflow Area = 1,686.907 ac, Inflow Depth > 1.12" for 25-yr event

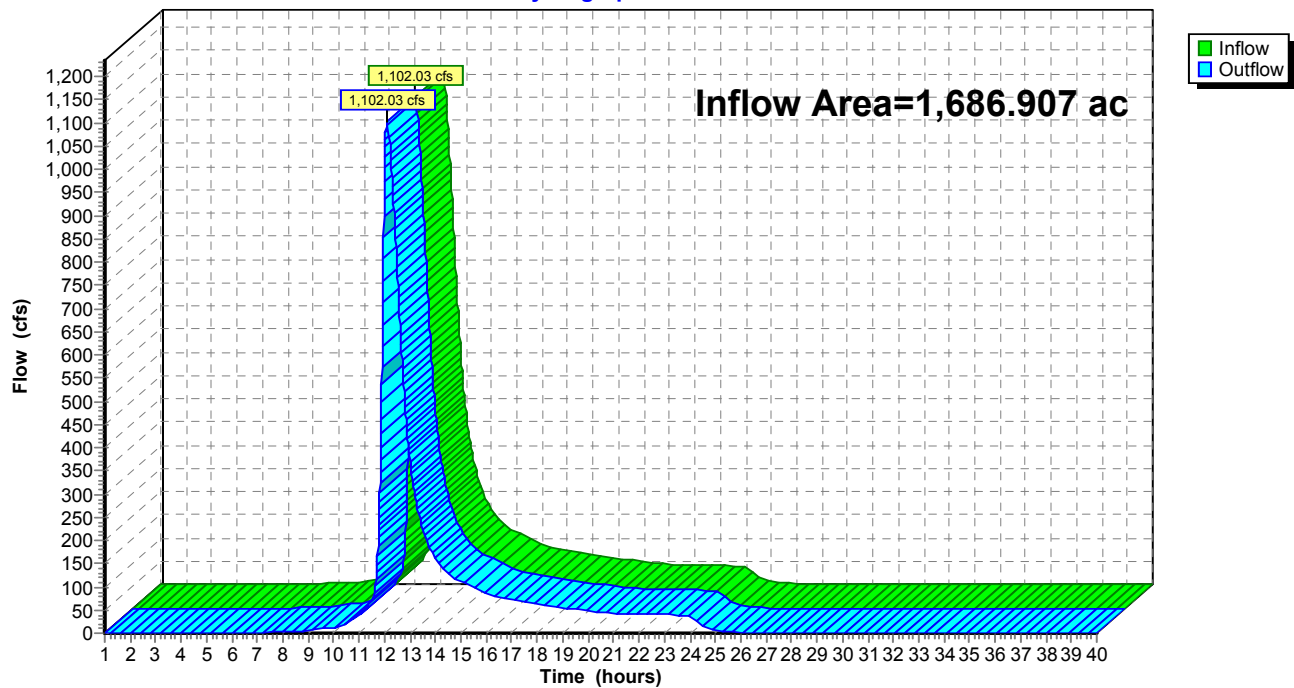
Inflow = 1,102.03 cfs @ 12.10 hrs, Volume= 158.005 af

Outflow = 1,102.03 cfs @ 12.10 hrs, Volume= 158.005 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 4: Apple River Downstream of South Twin Outlet

Hydrograph



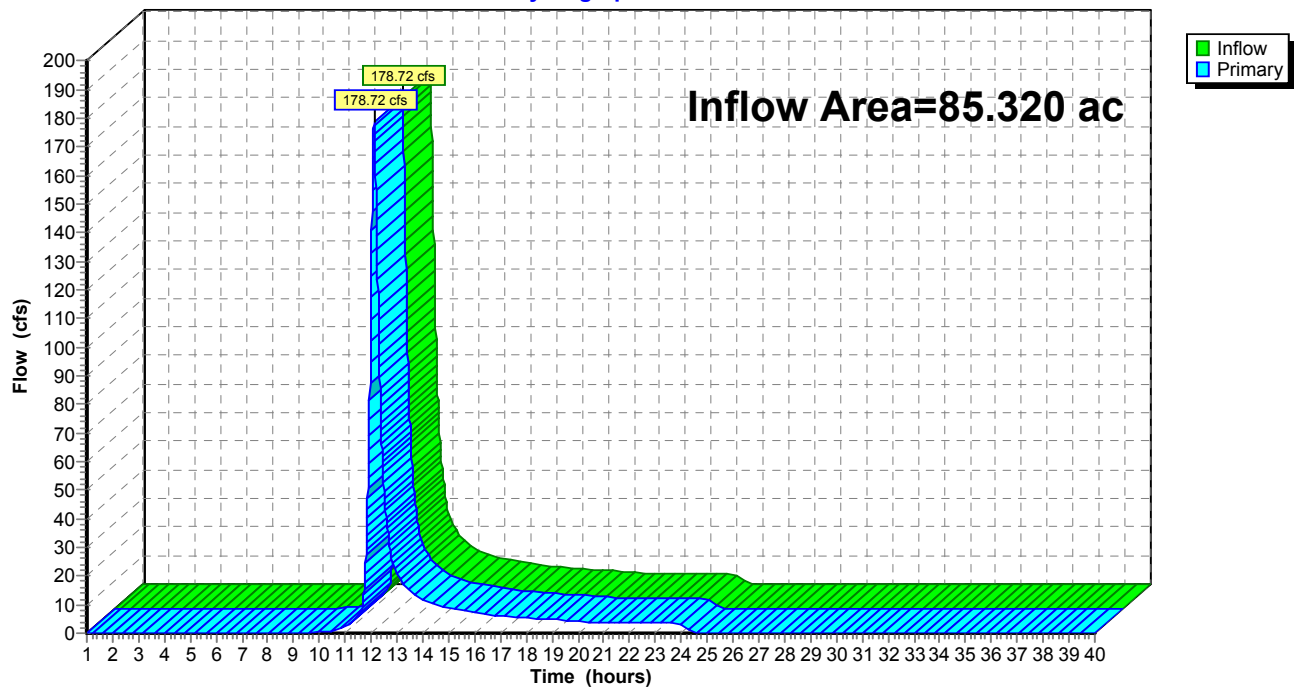
Pond 1P: (new Pond)

Inflow Area = 85.320 ac, Inflow Depth = 1.92" for 25-yr event
Inflow = 178.72 cfs @ 12.11 hrs, Volume= 13.642 af
Primary = 178.72 cfs @ 12.11 hrs, Volume= 13.642 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 1P: (new Pond)

Hydrograph



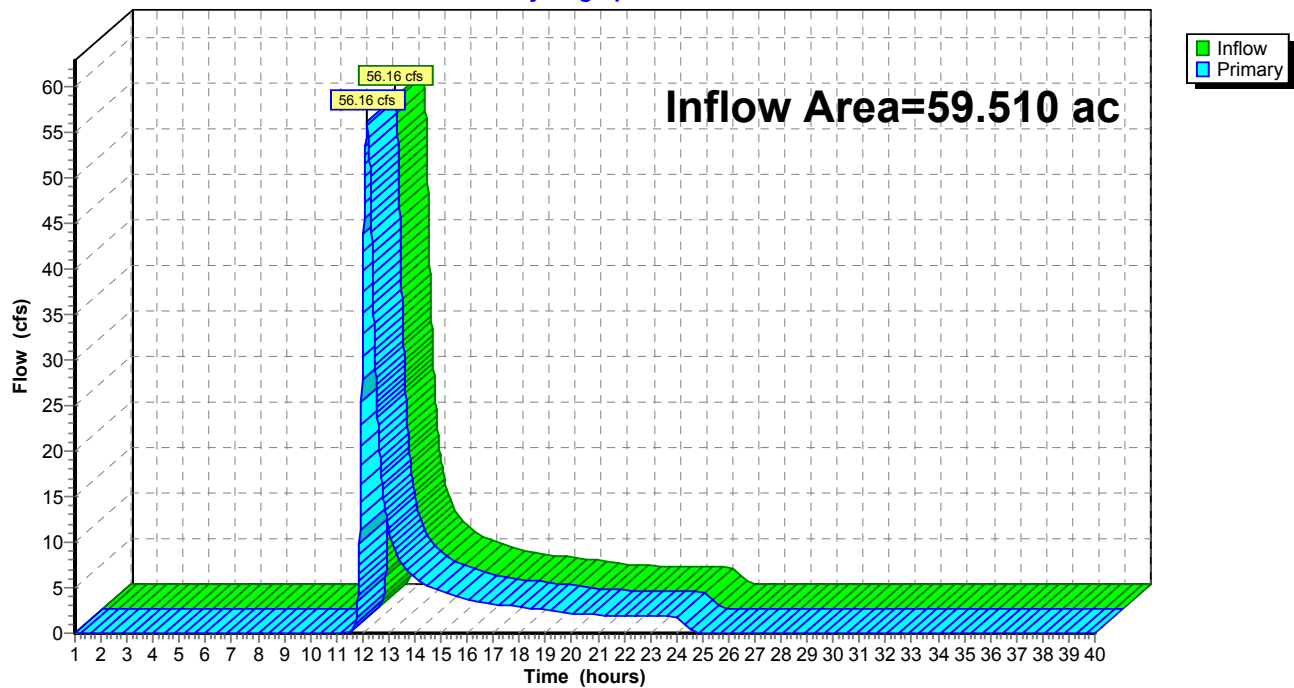
Pond 2P: (new Pond)

Inflow Area = 59.510 ac, Inflow Depth = 1.21" for 25-yr event
Inflow = 56.16 cfs @ 12.19 hrs, Volume= 5.977 af
Primary = 56.16 cfs @ 12.19 hrs, Volume= 5.977 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 2P: (new Pond)

Hydrograph



Pond 3P: (new Pond)

Inflow Area = 47.571 ac, Inflow Depth = 1.52" for 25-yr event
 Inflow = 97.90 cfs @ 12.06 hrs, Volume= 6.033 af
 Outflow = 3.87 cfs @ 15.43 hrs, Volume= 4.825 af, Atten= 96%, Lag= 202.3 min
 Primary = 3.87 cfs @ 15.43 hrs, Volume= 4.825 af

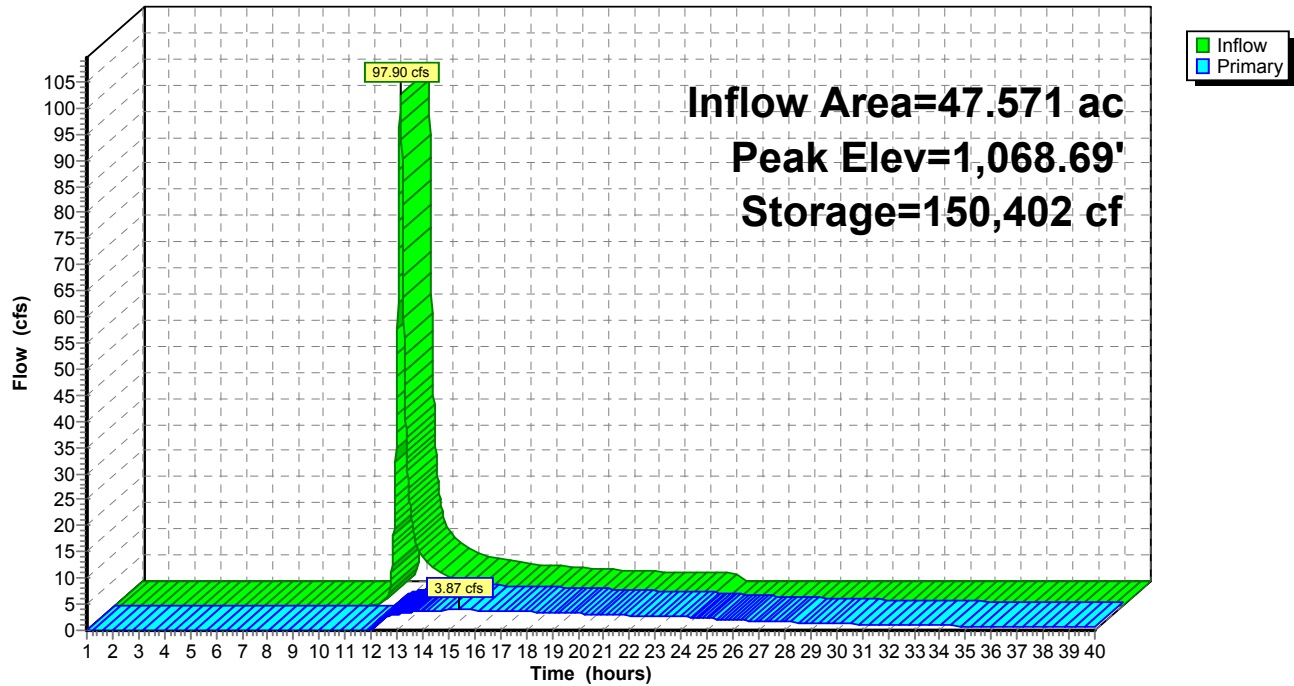
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.69' @ 15.43 hrs Surf.Area= 228,824 sf Storage= 150,402 cf
 Plug-Flow detention time= 532.7 min calculated for 4.825 af (80% of inflow)
 Center-of-Mass det. time= 444.9 min (1,311.2 - 866.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,068.00'	4,623,972 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,068.00	208,562	0	0
1,080.00	562,100	4,623,972	4,623,972

Device	Routing	Invert	Outlet Devices
#1	Primary	1,068.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 10.00 Width (feet) 1.00 40.00

Primary OutFlow Max=3.87 cfs @ 15.43 hrs HW=1,068.69' TW=980.32' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Weir Controls 3.87 cfs @ 2.4 fps)

Pond 3P: (new Pond)**Hydrograph**

Pond 5P: (new Pond)

Inflow Area = 18.570 ac, Inflow Depth = 2.63" for 25-yr event
 Inflow = 93.19 cfs @ 11.95 hrs, Volume= 4.070 af
 Outflow = 93.49 cfs @ 11.94 hrs, Volume= 3.862 af, Atten= 0%, Lag= 0.0 min
 Primary = 93.49 cfs @ 11.94 hrs, Volume= 3.862 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,150.17' @ 11.96 hrs Surf.Area= 9,060 sf Storage= 9,060 cf
 Plug-Flow detention time= 39.6 min calculated for 3.862 af (95% of inflow)
 Center-of-Mass det. time= 10.7 min (832.0 - 821.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,107.00'	9,060 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

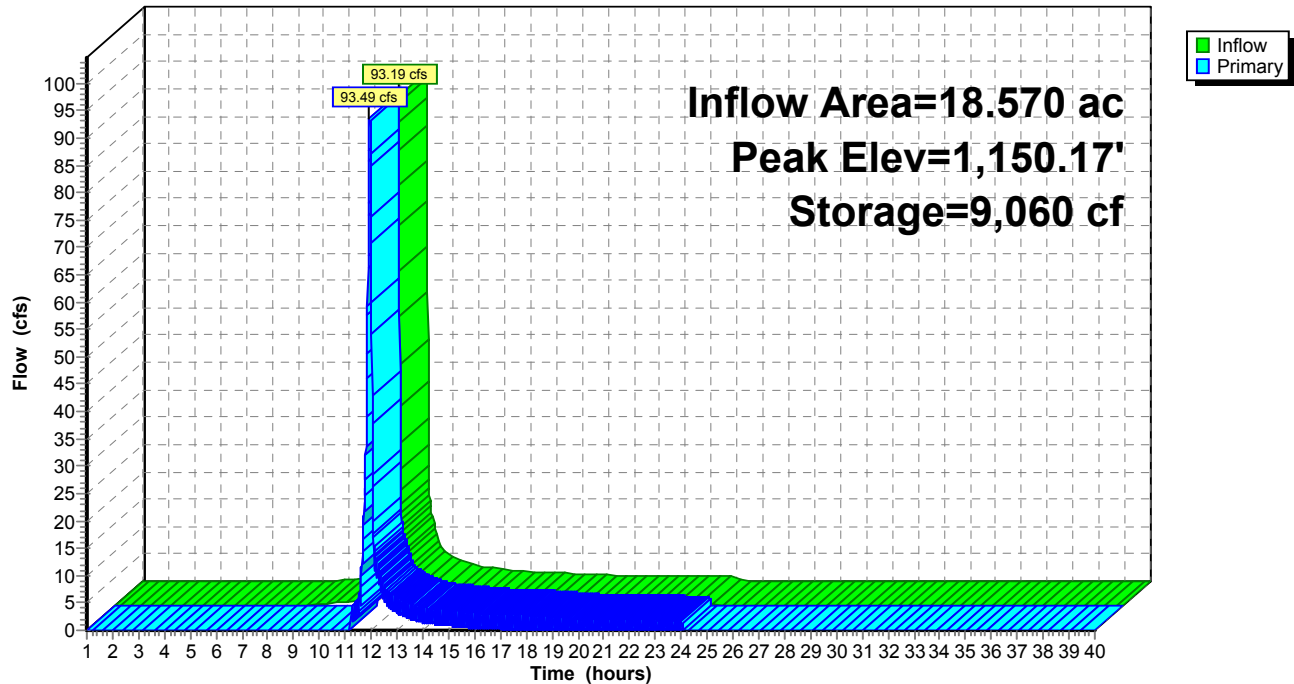
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,107.00	9,060	0	0
1,108.00	9,060	9,060	9,060

Device	Routing	Invert	Outlet Devices
#1	Primary	1,107.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 1.00 Width (feet) 1.00 5.00

Primary OutFlow Max=93.39 cfs @ 11.94 hrs HW=1,150.16' TW=1,110.01' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Orifice Controls 93.39 cfs @ 31.1 fps)

Pond 5P: (new Pond)

Hydrograph



Pond A10P: A10P

Inflow Area = 9.300 ac, Inflow Depth = 1.81" for 25-yr event
 Inflow = 29.25 cfs @ 11.99 hrs, Volume= 1.405 af
 Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.77' @ 24.40 hrs Surf.Area= 63,826 sf Storage= 61,216 cf
 Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

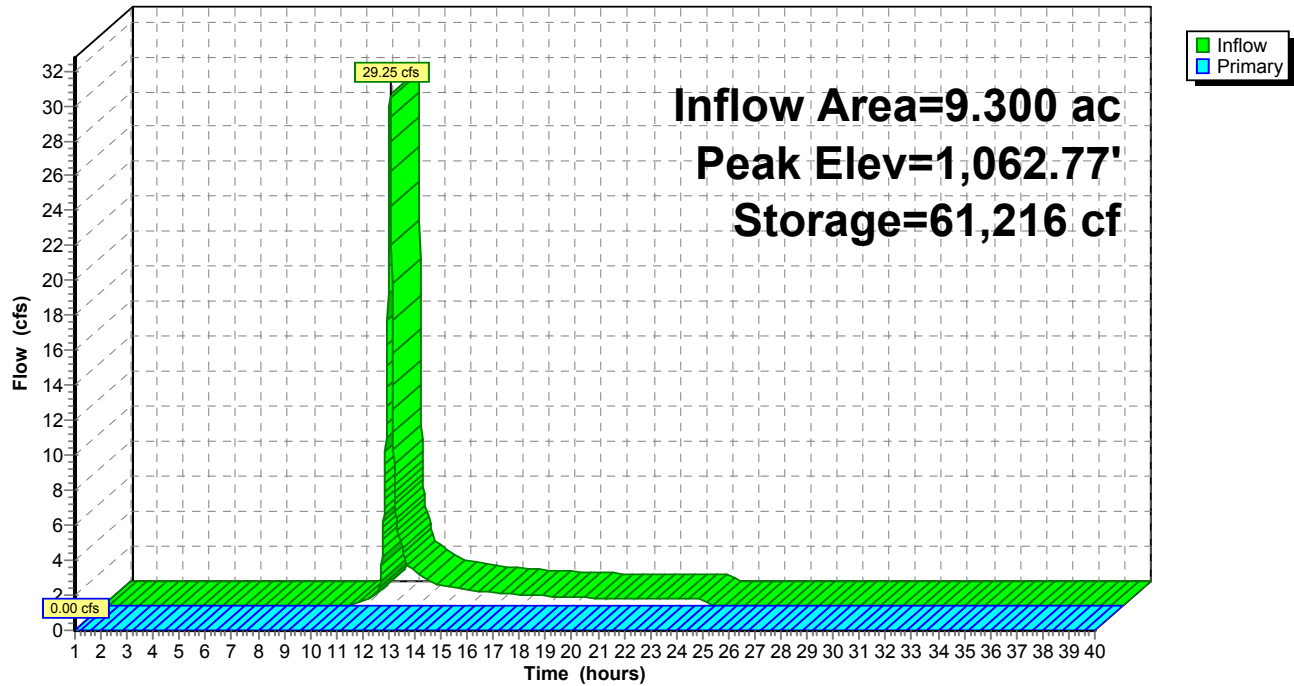
Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	640,000 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	60,000	0	0
1,070.00	100,000	640,000	640,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,070.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=1,062.00' TW=1,060.80' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond A10P: A10P**Hydrograph**

Pond A1P: WETLAND PONDS

Inflow Area = 36.474 ac, Inflow Depth = 1.67" for 25-yr event
 Inflow = 42.11 cfs @ 12.35 hrs, Volume= 5.061 af
 Outflow = 3.60 cfs @ 15.17 hrs, Volume= 4.035 af, Atten= 91%, Lag= 169.1 min
 Primary = 3.60 cfs @ 15.17 hrs, Volume= 4.035 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,093.78' @ 15.18 hrs Surf.Area= 97,970 sf Storage= 124,421 cf
 Plug-Flow detention time= 494.3 min calculated for 4.035 af (80% of inflow)
 Center-of-Mass det. time= 406.1 min (1,290.5 - 884.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,092.50'	243,750 cf	Custom Stage Data (Prismatic) Listed below

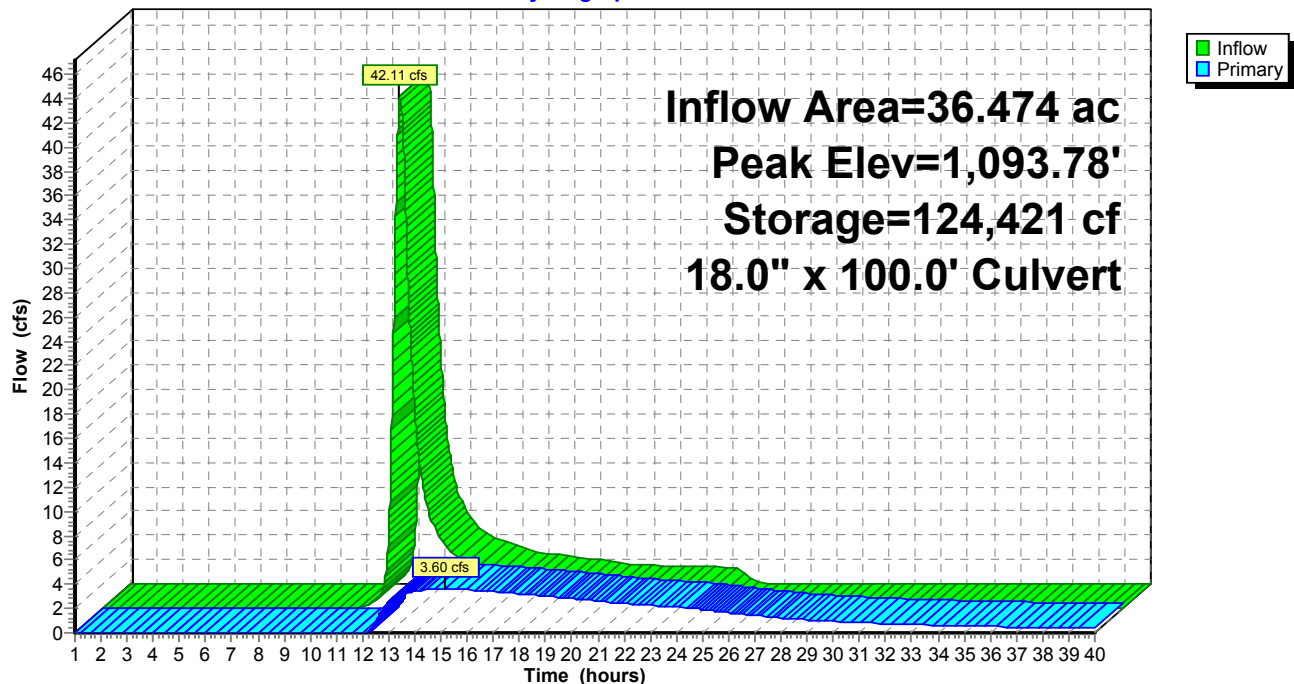
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,092.50	75,000	0	0
1,095.00	120,000	243,750	243,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,092.50'	18.0" x 100.0' long Culvert Ke= 0.700 Outlet Invert= 1,091.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=3.60 cfs @ 15.17 hrs HW=1,093.78' TW=1,092.79' (Dynamic Tailwater)
 ↑ **1=Culvert** (Outlet Controls 3.60 cfs @ 3.0 fps)

Pond A1P: WETLAND PONDS

Hydrograph



Pond A4P: A4P

Inflow Area = 34.000 ac, Inflow Depth = 1.89" for 25-yr event
 Inflow = 48.58 cfs @ 12.33 hrs, Volume= 5.353 af
 Outflow = 2.15 cfs @ 18.28 hrs, Volume= 3.400 af, Atten= 96%, Lag= 357.3 min
 Primary = 2.15 cfs @ 18.28 hrs, Volume= 3.400 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,084.86' @ 18.28 hrs Surf.Area= 179,320 sf Storage= 158,503 cf
 Plug-Flow detention time= 680.3 min calculated for 3.400 af (64% of inflow)
 Center-of-Mass det. time= 560.7 min (1,434.1 - 873.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,084.00'	368,635 cf	Custom Stage Data (Prismatic) Listed below

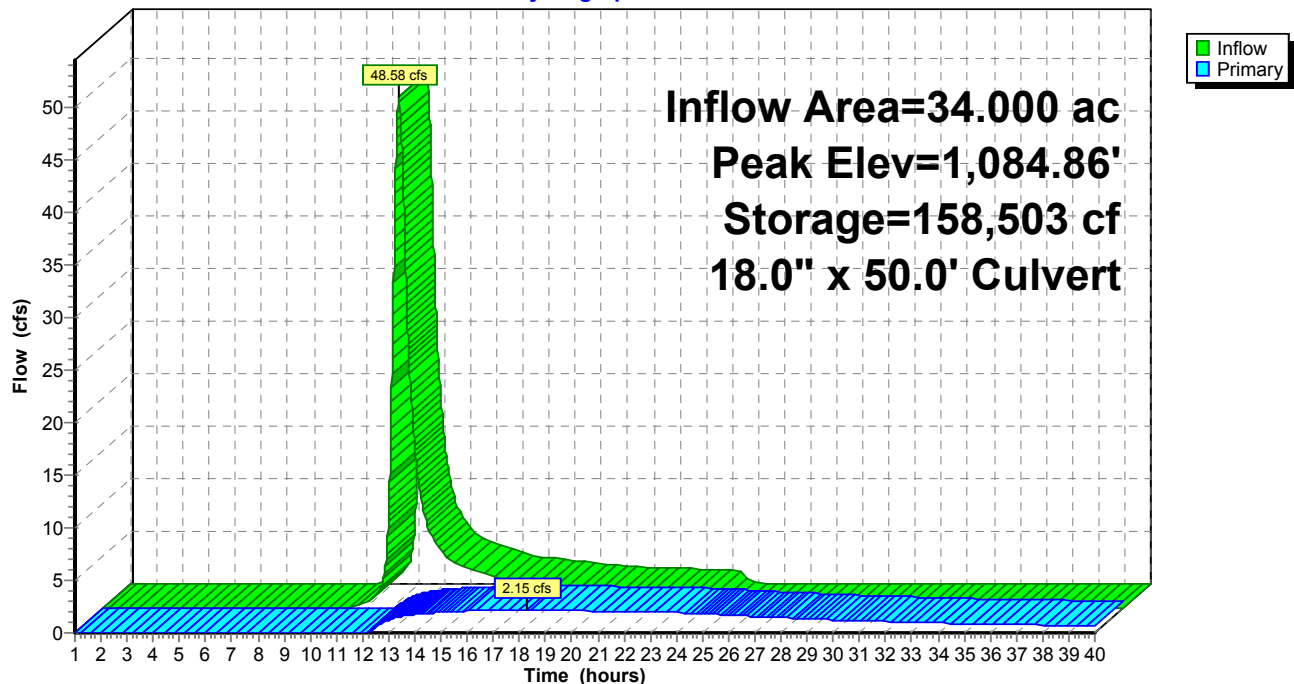
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,084.00	148,635	0	0
1,086.00	220,000	368,635	368,635

Device	Routing	Invert	Outlet Devices
#1	Primary	1,084.00'	18.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,083.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=2.15 cfs @ 18.28 hrs HW=1,084.86' TW=1,083.83' (Dynamic Tailwater)
 ↑1=Culvert (Barrel Controls 2.15 cfs @ 3.0 fps)

Pond A4P: A4P

Hydrograph



Pond B6P: WETPONDS

Inflow Area = 16.070 ac, Inflow Depth = 1.74" for 25-yr event
 Inflow = 44.33 cfs @ 12.01 hrs, Volume= 2.328 af
 Outflow = 1.00 cfs @ 11.76 hrs, Volume= 2.328 af, Atten= 98%, Lag= 0.0 min
 Discarded = 1.00 cfs @ 11.76 hrs, Volume= 2.328 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,061.59' @ 17.61 hrs Surf.Area= 38,131 sf Storage= 61,084 cf
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 657.8 min (1,512.4 - 854.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.00'	153,798 cf	Custom Stage Data (Prismatic) Listed below

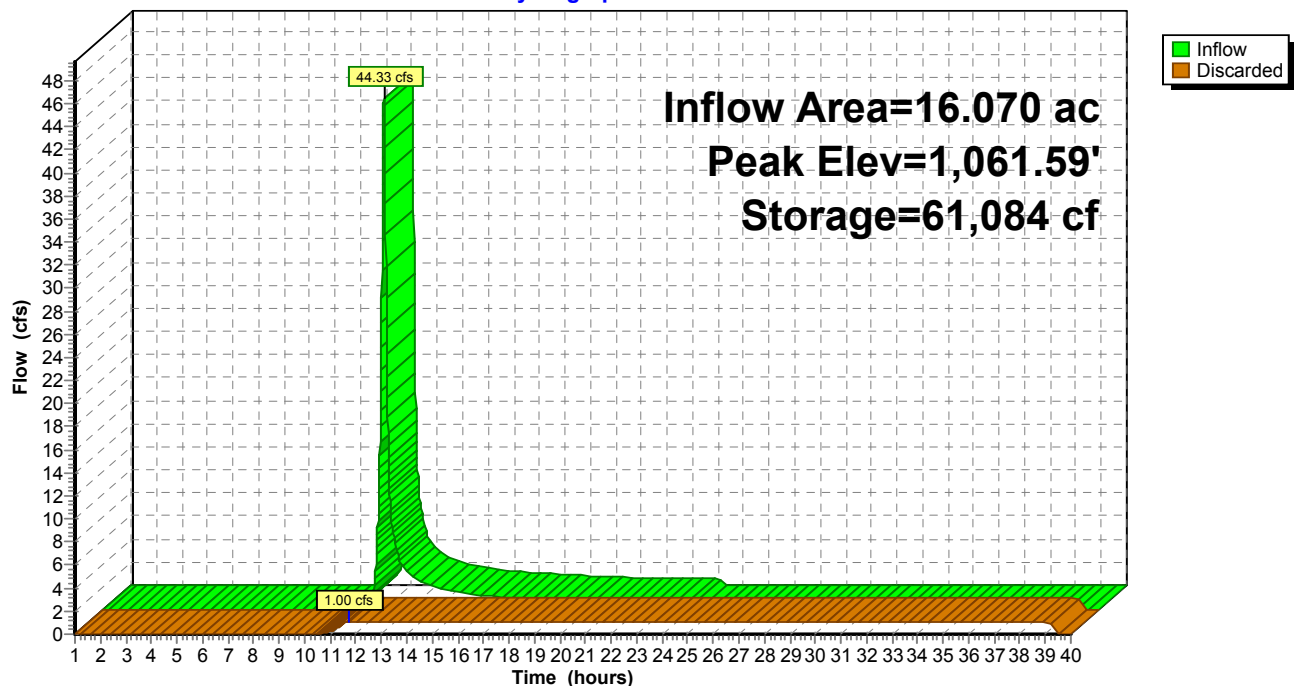
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,060.00	36,899	0	0
1,064.00	40,000	153,798	153,798

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	1.00 cfs Exfiltration at all elevations

Discarded OutFlow Max=1.00 cfs @ 11.76 hrs HW=1,060.04' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 1.00 cfs)

Pond B6P: WETPONDS

Hydrograph



Pond B7P: DRY POND

Inflow Area = 15.390 ac, Inflow Depth = 1.45" for 25-yr event
 Inflow = 15.70 cfs @ 12.34 hrs, Volume= 1.862 af
 Outflow = 8.71 cfs @ 12.69 hrs, Volume= 1.860 af, Atten= 45%, Lag= 21.0 min
 Primary = 8.71 cfs @ 12.69 hrs, Volume= 1.860 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.48' @ 12.69 hrs Surf.Area= 38,149 sf Storage= 19,337 cf
 Plug-Flow detention time= 60.9 min calculated for 1.860 af (100% of inflow)
 Center-of-Mass det. time= 60.3 min (950.7 - 890.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	81,000 cf	Custom Stage Data (Prismatic) Listed below

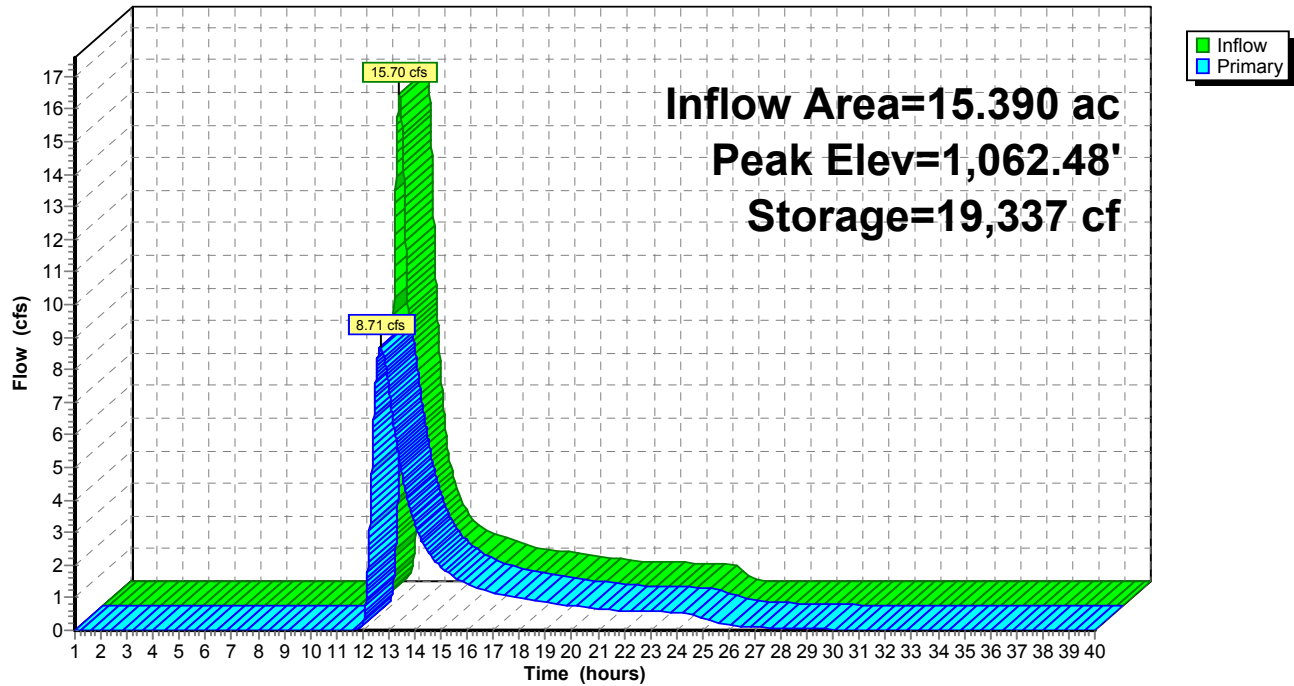
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	36,000	0	0
1,064.00	45,000	81,000	81,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=8.71 cfs @ 12.69 hrs HW=1,062.48' TW=1,060.87' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 8.71 cfs @ 1.8 fps)

Pond B7P: DRY POND

Hydrograph



Pond C4P: GOLF COURSE POND

Inflow Area = 20.070 ac, Inflow Depth = 1.45" for 25-yr event
 Inflow = 51.59 cfs @ 11.98 hrs, Volume= 2.429 af
 Outflow = 14.93 cfs @ 12.11 hrs, Volume= 2.426 af, Atten= 71%, Lag= 7.6 min
 Primary = 14.93 cfs @ 12.11 hrs, Volume= 2.426 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.53' @ 12.11 hrs Surf.Area= 65,594 sf Storage= 31,478 cf
 Plug-Flow detention time= 62.6 min calculated for 2.425 af (100% of inflow)
 Center-of-Mass det. time= 62.1 min (925.0 - 862.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,063.00'	147,275 cf	Custom Stage Data (Prismatic) Listed below

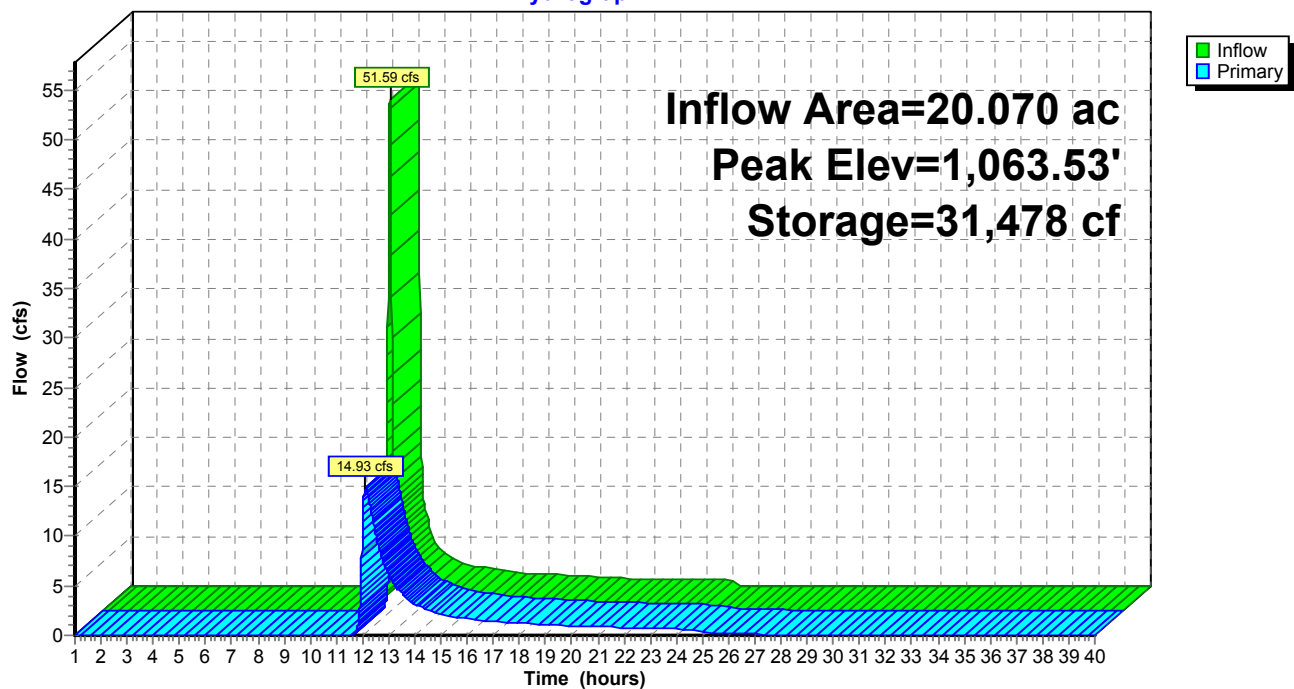
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,063.00	53,600	0	0
1,063.50	65,000	29,650	29,650
1,064.00	76,500	35,375	65,025
1,065.00	88,000	82,250	147,275

Device	Routing	Invert	Outlet Devices
#1	Primary	1,063.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=14.92 cfs @ 12.11 hrs HW=1,063.53' TW=1,059.83' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 14.92 cfs @ 1.9 fps)

Pond C4P: GOLF COURSE POND

Hydrograph



Pond C6P: GOLF COURSE POND

Inflow Area = 14.100 ac, Inflow Depth = 1.74" for 25-yr event
 Inflow = 45.02 cfs @ 11.97 hrs, Volume= 2.043 af
 Outflow = 3.69 cfs @ 12.56 hrs, Volume= 1.638 af, Atten= 92%, Lag= 35.4 min
 Primary = 3.69 cfs @ 12.56 hrs, Volume= 1.638 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,067.97' @ 12.56 hrs Surf.Area= 91,203 sf Storage= 40,111 cf
 Plug-Flow detention time= 258.2 min calculated for 1.638 af (80% of inflow)
 Center-of-Mass det. time= 172.2 min (1,023.4 - 851.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,067.50'	185,886 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,067.50	78,544	0	0
1,068.00	92,000	42,636	42,636
1,069.50	99,000	143,250	185,886

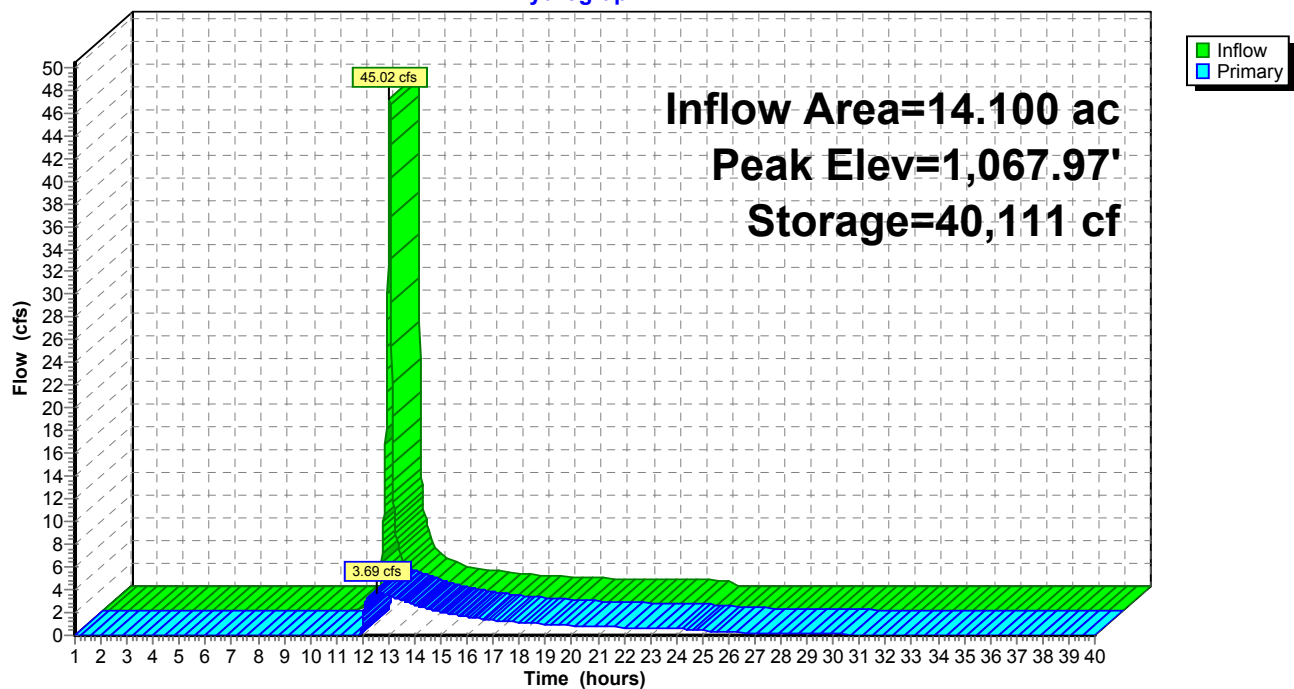
Device	Routing	Invert	Outlet Devices
#1	Primary	1,067.70'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=3.69 cfs @ 12.56 hrs HW=1,067.97' TW=1,059.87' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 3.69 cfs @ 1.4 fps)

Pond C6P: GOLF COURSE POND

Hydrograph



Pond C7P: (new node)

Inflow Area = 14.790 ac, Inflow Depth = 2.13" for 25-yr event
 Inflow = 59.50 cfs @ 11.95 hrs, Volume= 2.631 af
 Outflow = 0.51 cfs @ 24.03 hrs, Volume= 0.944 af, Atten= 99%, Lag= 725.0 min
 Primary = 0.51 cfs @ 24.03 hrs, Volume= 0.944 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.46' @ 24.03 hrs Surf.Area= 4.348 ac Storage= 2.205 af
 Plug-Flow detention time= 832.4 min calculated for 0.944 af (36% of inflow)
 Center-of-Mass det. time= 701.4 min (1,537.8 - 836.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	9.500 af	Custom Stage Data (Prismatic) Listed below

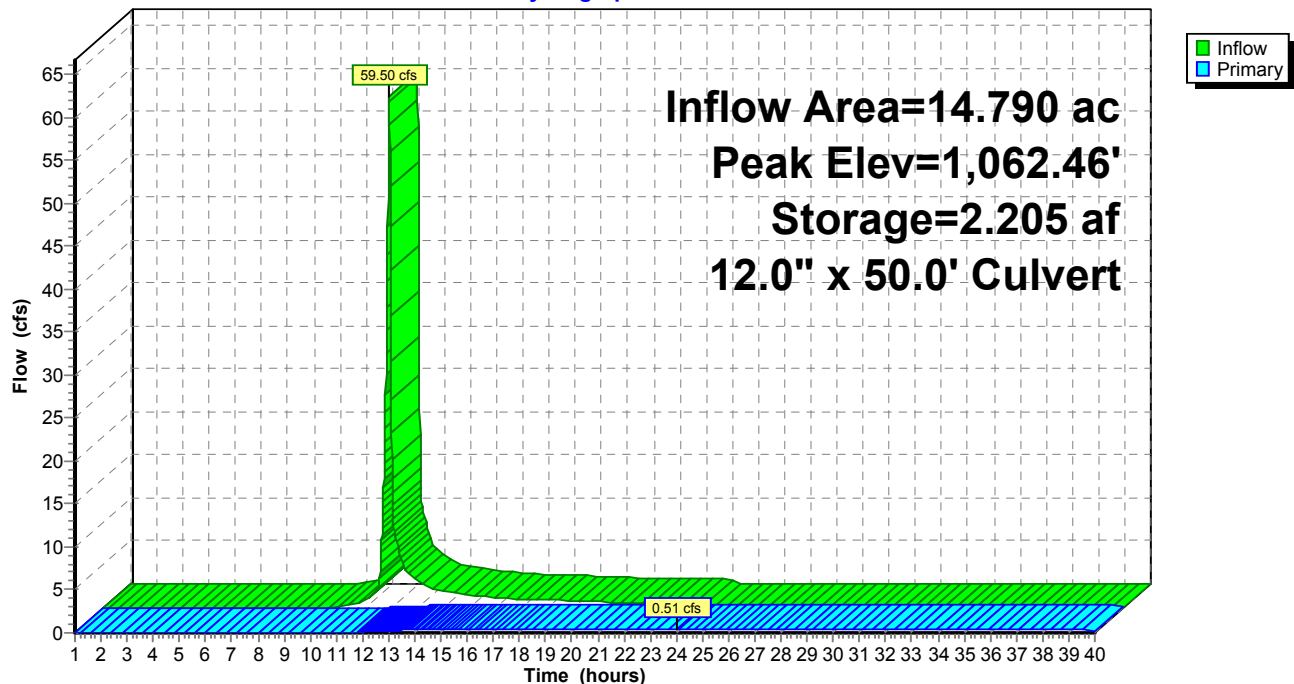
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,062.00	4.000	0.000	0.000
1,064.00	5.500	9.500	9.500

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	12.0" x 50.0' long Culvert Ke= 0.500 Outlet Invert= 1,061.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.51 cfs @ 24.03 hrs HW=1,062.46' TW=1,060.09' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.51 cfs @ 2.1 fps)

Pond C7P: (new node)

Hydrograph



Pond North Twin Lake: NORTH TWIN LAKE

Inflow Area = 570.115 ac, Inflow Depth > 0.79" for 25-yr event
 Inflow = 229.36 cfs @ 12.01 hrs, Volume= 37.447 af
 Outflow = 4.51 cfs @ 37.08 hrs, Volume= 10.429 af, Atten= 98%, Lag= 1,504.2 min
 Primary = 4.51 cfs @ 37.08 hrs, Volume= 10.429 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.99' @ 37.08 hrs Surf.Area= 142.886 ac Storage= 27.091 af
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 428.4 min (1,545.5 - 1,117.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	172.740 af	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	142.400	0.000	0.000
1,062.00	145.500	172.740	172.740

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	30.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.60' S= 0.0040 '/' Cc= 0.900 n= 0.024
#2	Primary	1,062.80'	100.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

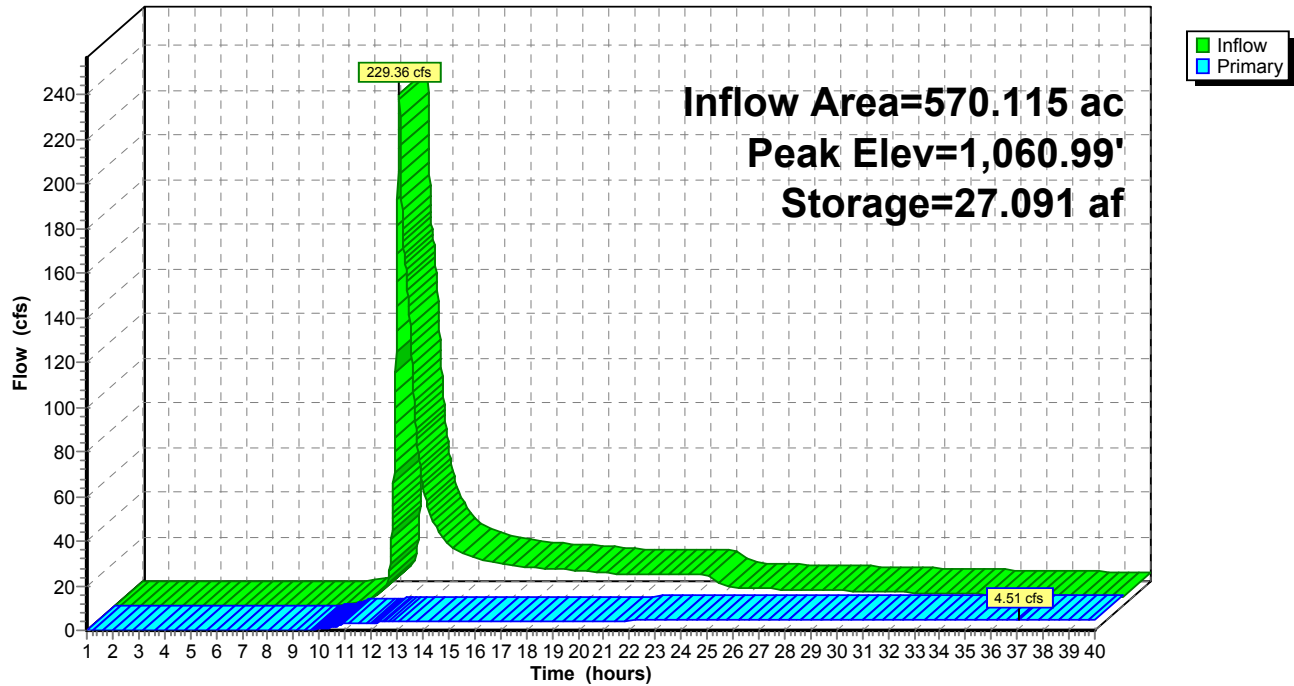
Primary OutFlow Max=4.51 cfs @ 37.08 hrs HW=1,060.99' TW=1,060.16' (Dynamic Tailwater)

1=Culvert (Barrel Controls 4.51 cfs @ 2.9 fps)

2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond North Twin Lake: NORTH TWIN LAKE

Hydrograph



Pond PIKE: PIKE LAKE

Inflow Area = 400.735 ac, Inflow Depth > 1.42" for 25-yr event
 Inflow = 445.44 cfs @ 12.03 hrs, Volume= 47.446 af
 Outflow = 8.03 cfs @ 24.10 hrs, Volume= 13.990 af, Atten= 98%, Lag= 723.9 min
 Primary = 8.03 cfs @ 24.10 hrs, Volume= 13.990 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,061.02' @ 24.37 hrs Surf.Area= 169.874 ac Storage= 36.768 af
 Plug-Flow detention time= 817.6 min calculated for 13.990 af (29% of inflow)
 Center-of-Mass det. time= 550.2 min (1,537.7 - 987.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	205.080 af	Custom Stage Data (Prismatic) Listed below

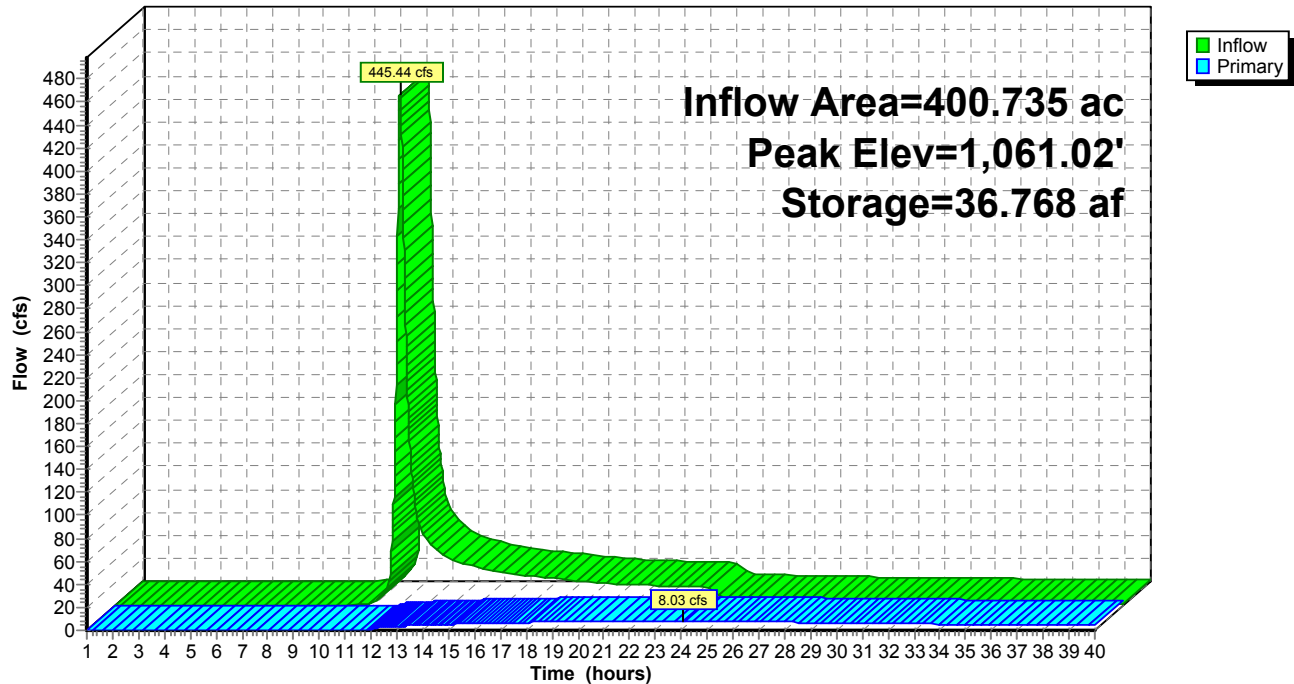
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	169.300	0.000	0.000
1,062.00	172.500	205.080	205.080

Device	Routing	Invert	Outlet Devices
#1	Primary	1,060.80'	50.0' long x 1.2' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.66 2.69 2.71 2.78 2.89 2.99 3.09 3.20 3.21 3.19 3.30 3.32

Primary OutFlow Max=8.03 cfs @ 24.10 hrs HW=1,061.01' TW=1,060.97' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 8.03 cfs @ 0.7 fps)

Pond PIKE: PIKE LAKE

Hydrograph



Pond South Twin Lake: SOUTH TWIN LAKE

Inflow Area = 693.705 ac, Inflow Depth > 0.53" for 25-yr event
 Inflow = 96.78 cfs @ 12.13 hrs, Volume= 30.485 af
 Outflow = 0.52 cfs @ 40.00 hrs, Volume= 0.725 af, Atten= 99%, Lag= 1,672.2 min
 Primary = 0.52 cfs @ 40.00 hrs, Volume= 0.725 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.17' @ 40.00 hrs Surf.Area= 76.987 ac Storage= 29.758 af
 Plug-Flow detention time= 1,123.5 min calculated for 0.725 af (2% of inflow)
 Center-of-Mass det. time= 634.5 min (1,773.8 - 1,139.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,059.80'	321.440 af	Custom Stage Data (Prismatic) Listed below

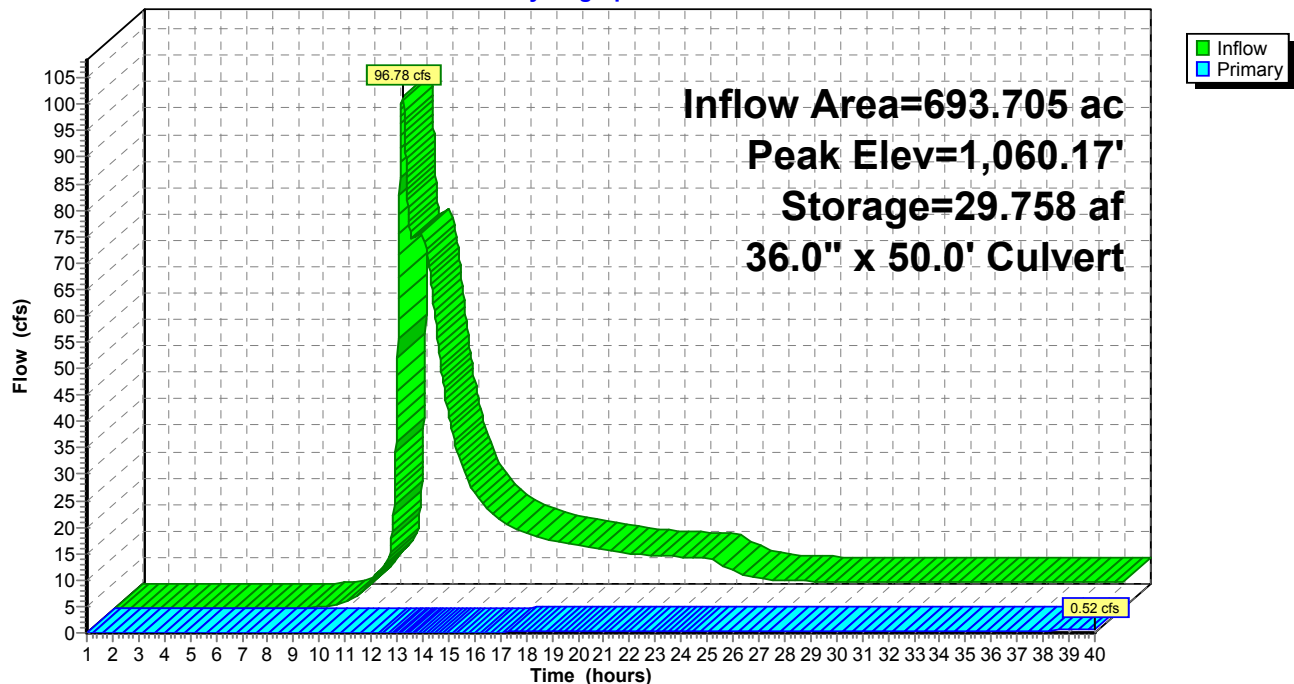
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,059.80	76.220	0.000	0.000
1,063.80	84.500	321.440	321.440

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	36.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.50' S= 0.0060 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.52 cfs @ 40.00 hrs HW=1,060.17' TW=0.00' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.52 cfs @ 1.6 fps)

Pond South Twin Lake: SOUTH TWIN LAKE

Hydrograph



Subcatchment A1: A1

Runoff = 53.96 cfs @ 12.35 hrs, Volume= 6.343 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

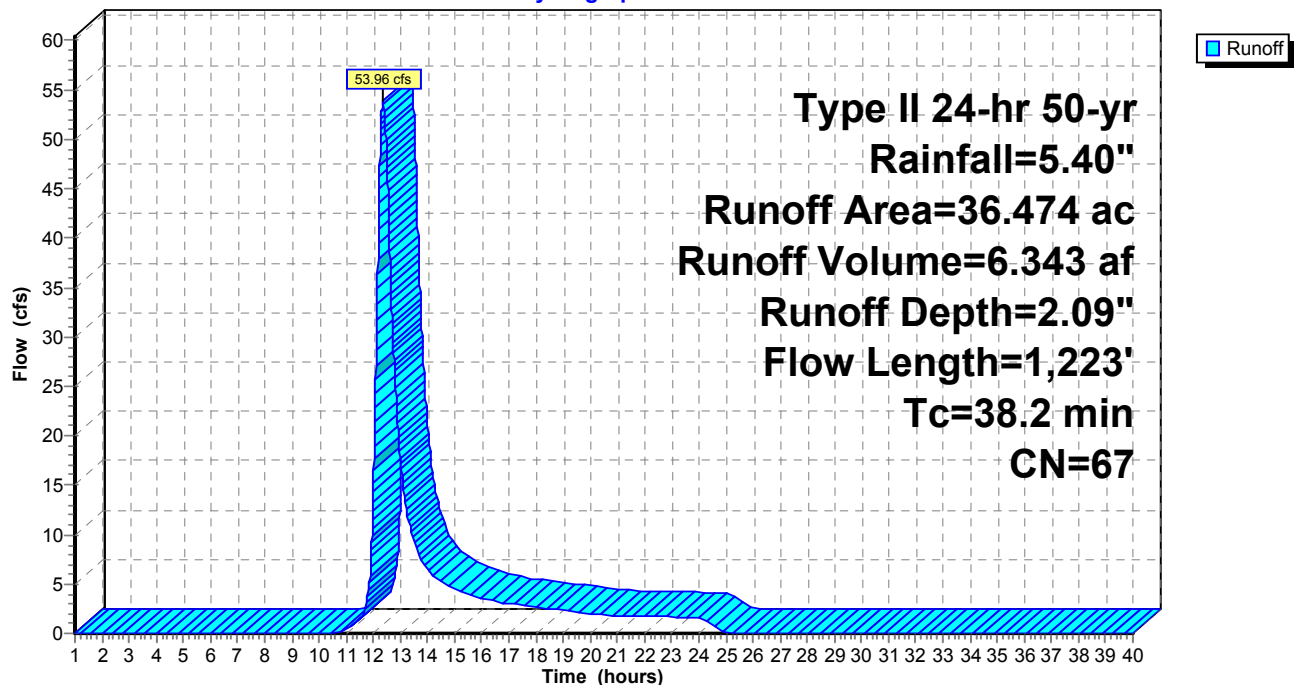
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
36.474	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	1,223	0.0200	0.5		Lag/CN Method,

Subcatchment A1: A1

Hydrograph



Subcatchment A10: A10

Runoff = 36.44 cfs @ 11.99 hrs, Volume= 1.746 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

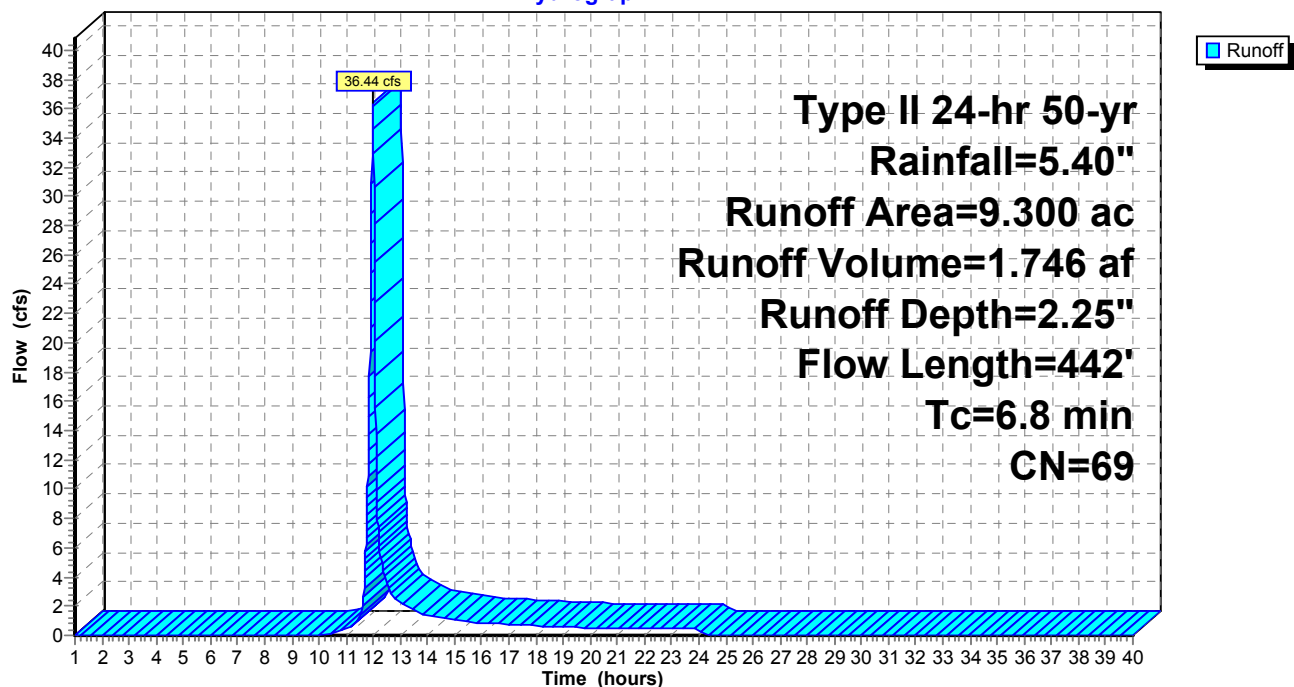
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.300	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	442	0.1100	1.1		Lag/CN Method,

Subcatchment A10: A10

Hydrograph



Subcatchment A11: A11

Runoff = 70.07 cfs @ 12.04 hrs, Volume= 4.049 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

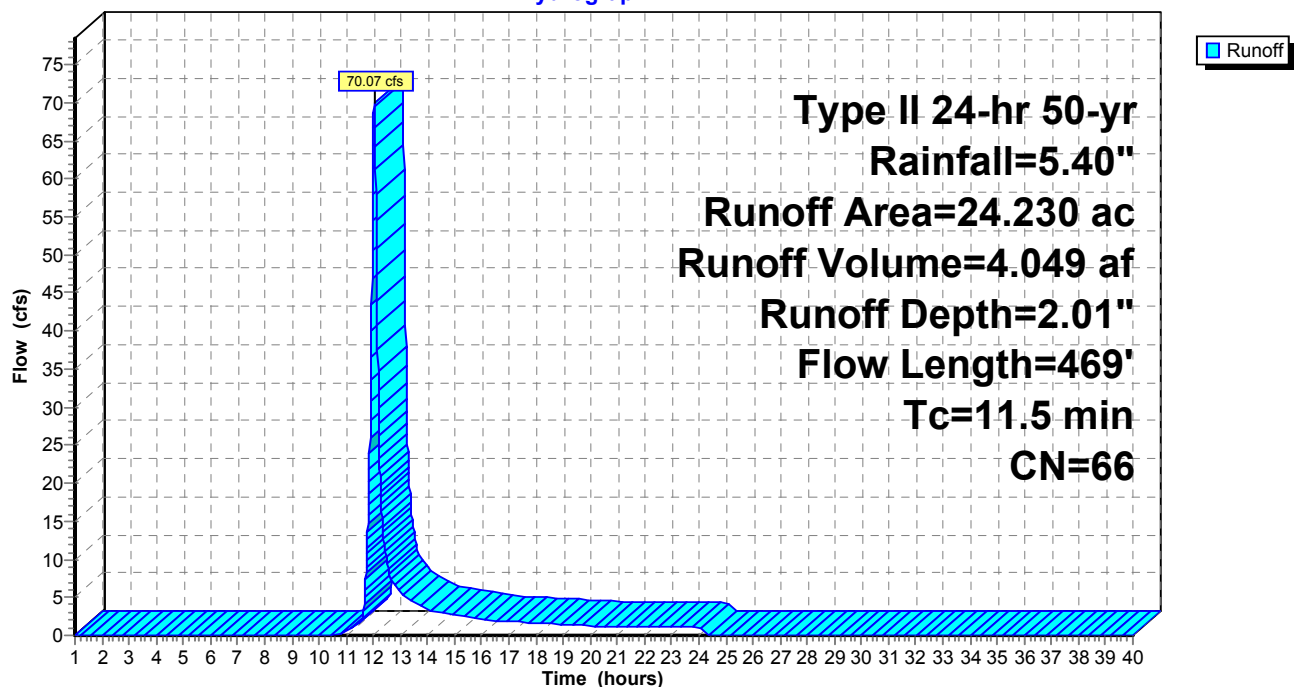
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
24.230	66	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	469	0.0500	0.7		Lag/CN Method,

Subcatchment A11: A11

Hydrograph



Subcatchment A12: A12

Runoff = 43.99 cfs @ 12.10 hrs, Volume= 3.195 af, Depth= 1.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

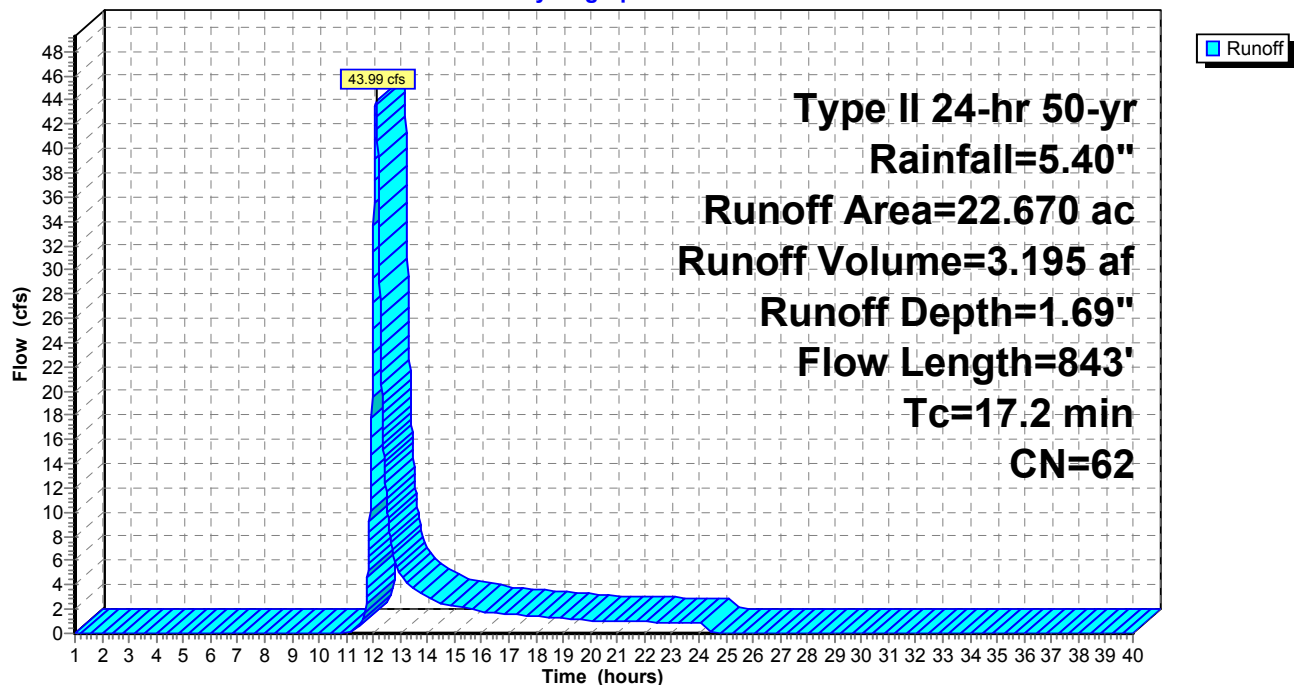
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
22.670	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	843	0.0700	0.8		Lag/CN Method,

Subcatchment A12: A12

Hydrograph



Subcatchment A13: A13

Runoff = 40.22 cfs @ 12.18 hrs, Volume= 3.555 af, Depth= 1.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

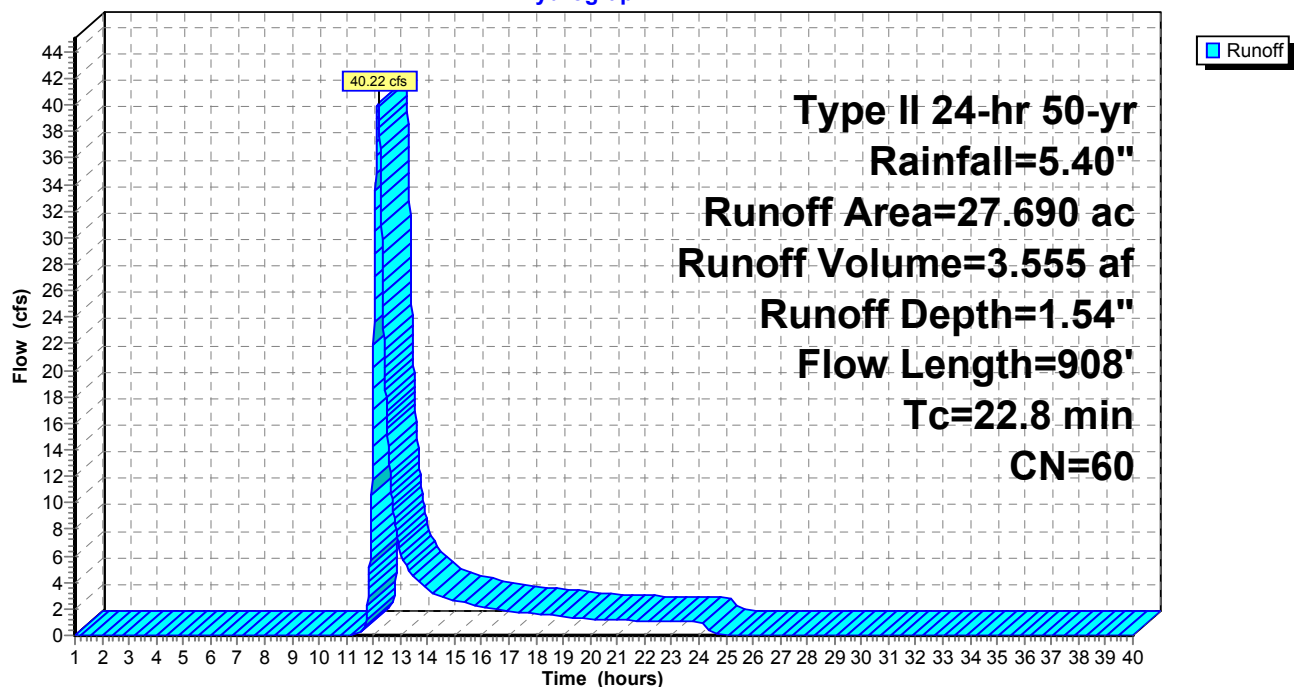
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
27.690	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	908	0.0500	0.7		Lag/CN Method,

Subcatchment A13: A13

Hydrograph



Subcatchment A2: A2

Runoff = 113.61 cfs @ 12.07 hrs, Volume= 7.389 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

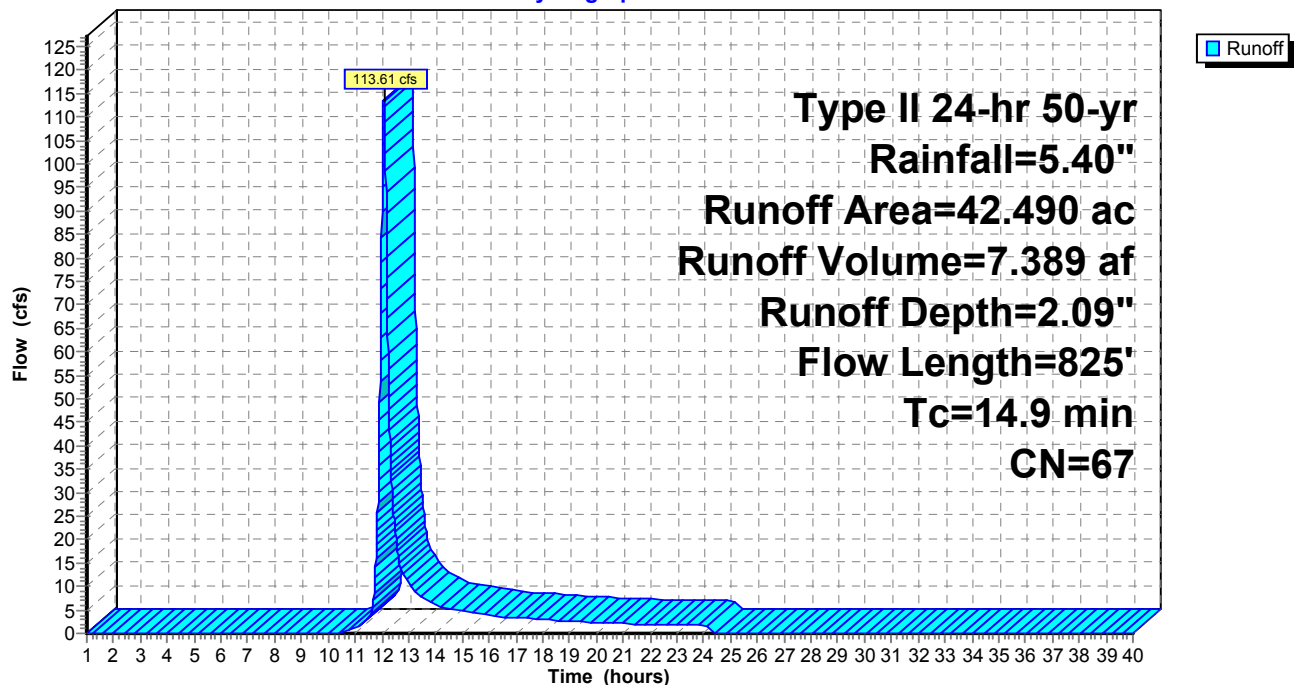
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
42.490	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	825	0.0700	0.9		Lag/CN Method,

Subcatchment A2: A2

Hydrograph



Subcatchment A3: A3

Runoff = 77.28 cfs @ 12.13 hrs, Volume= 5.774 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

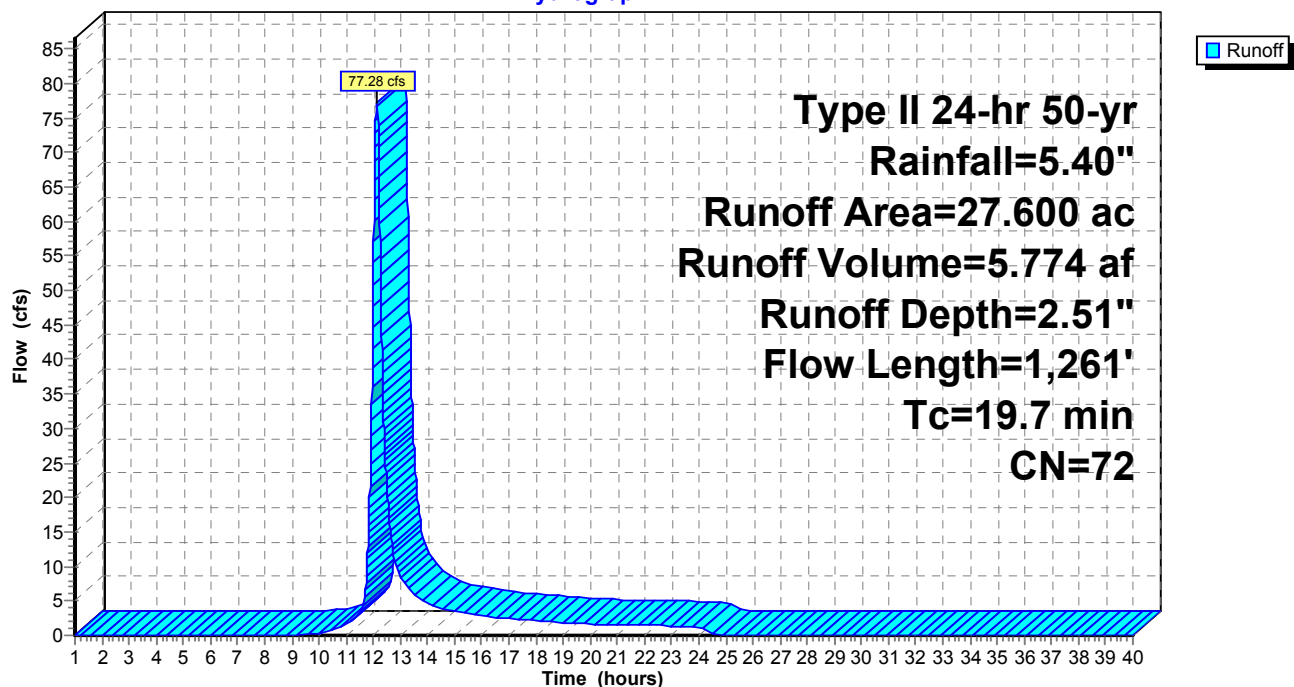
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
27.600	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	1,261	0.0600	1.1		Lag/CN Method,

Subcatchment A3: A3

Hydrograph



Subcatchment A4: A4

Runoff = 60.90 cfs @ 12.32 hrs, Volume= 6.623 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

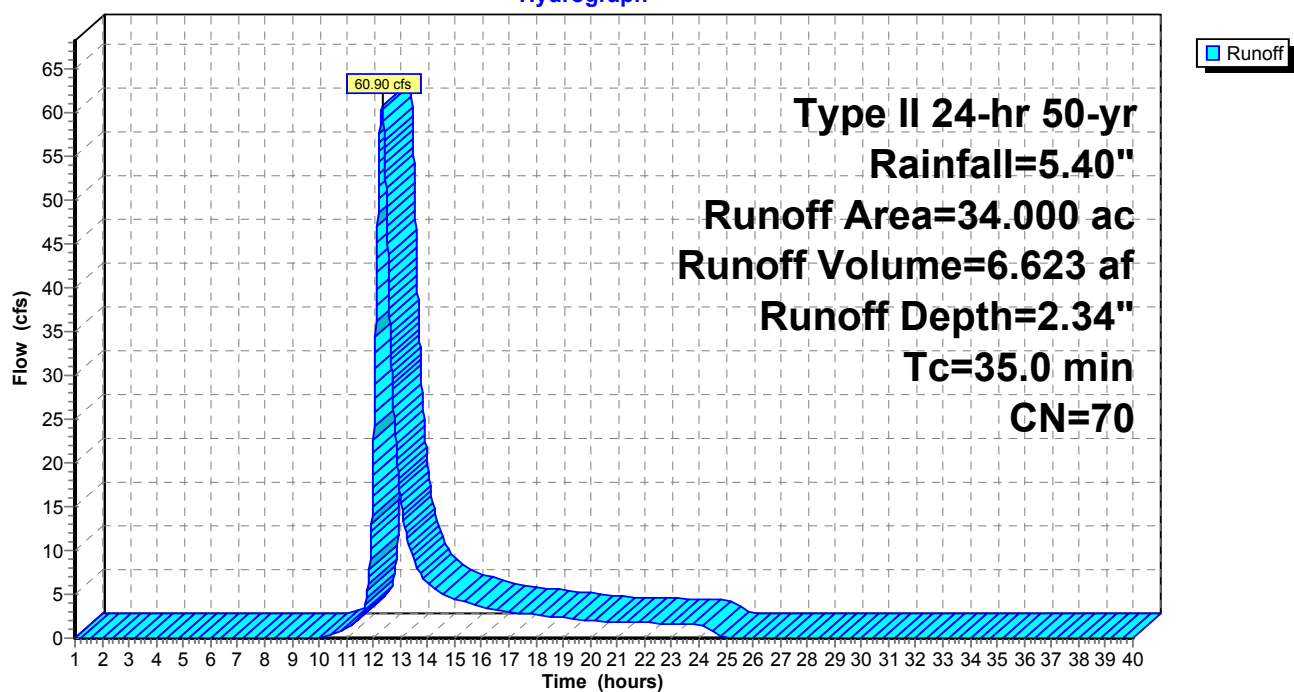
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.000	100	WATER
19.000	60	Woods, Fair, HSG B
10.000	74	Row crops, C + CR, Good, HSG B
34.000	70	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.0					Direct Entry,

Subcatchment A4: A4

Hydrograph



Subcatchment A5: A5

Runoff = 59.70 cfs @ 12.05 hrs, Volume= 3.703 af, Depth= 3.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

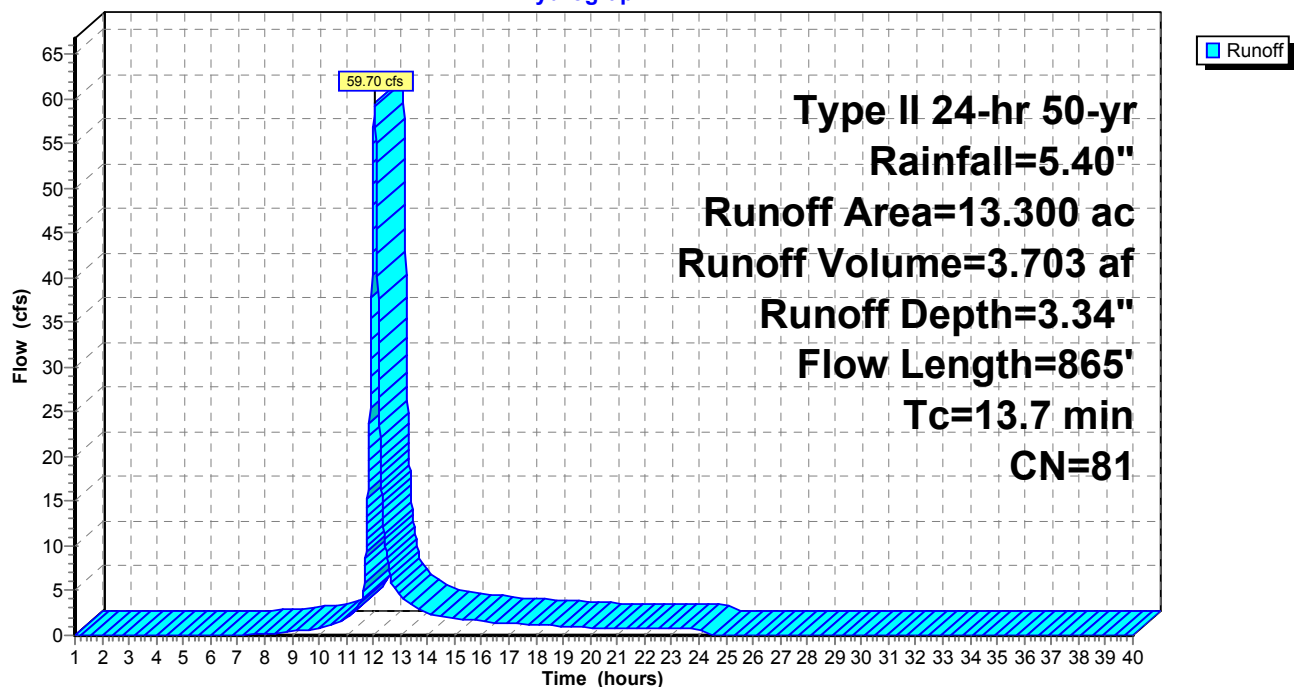
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
13.300	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	865	0.0400	1.1		Lag/CN Method,

Subcatchment A5: A5

Hydrograph



Subcatchment A6: A6

Runoff = 40.63 cfs @ 12.13 hrs, Volume= 3.140 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

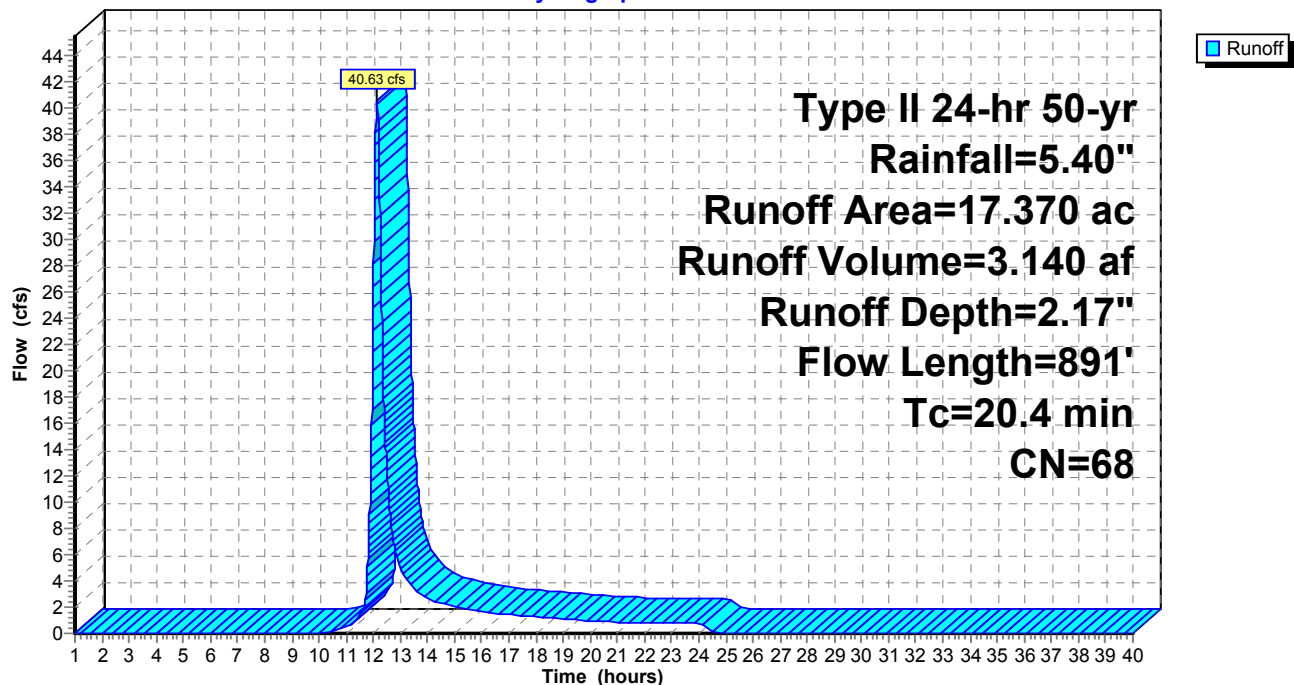
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
17.370	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	891	0.0400	0.7		Lag/CN Method,

Subcatchment A6: A6

Hydrograph



Subcatchment A7: A7

Runoff = 18.98 cfs @ 12.22 hrs, Volume= 1.913 af, Depth= 1.25"

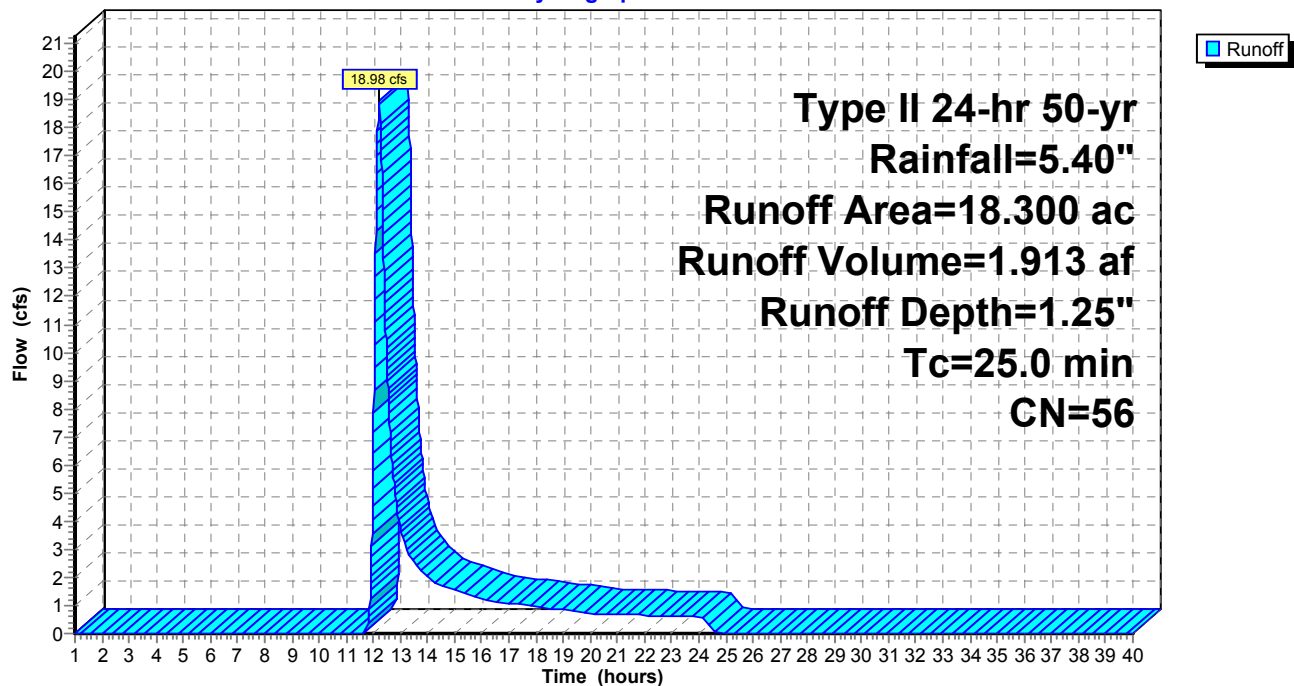
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
1.000	100	WATER
3.000	70	FARM
7.300	64	Row crops, C + CR, Good, HSG A
7.000	36	Woods, Fair, HSG A
18.300	56	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.0					Direct Entry,

Subcatchment A7: A7

Hydrograph



Subcatchment A9: A9

Runoff = 39.73 cfs @ 12.03 hrs, Volume= 2.325 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

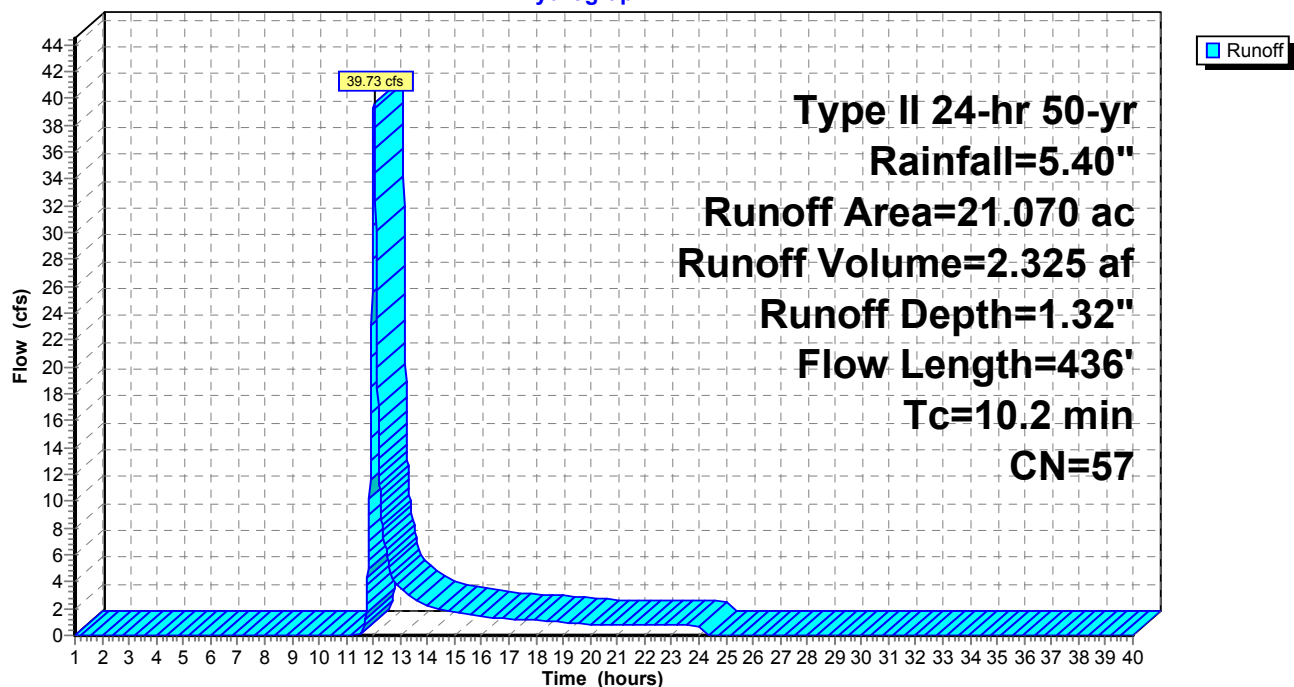
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
21.070	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	436	0.0900	0.7		Lag/CN Method,

Subcatchment A9: A9

Hydrograph



Subcatchment B1: B1

Runoff = 74.62 cfs @ 12.26 hrs, Volume= 7.512 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

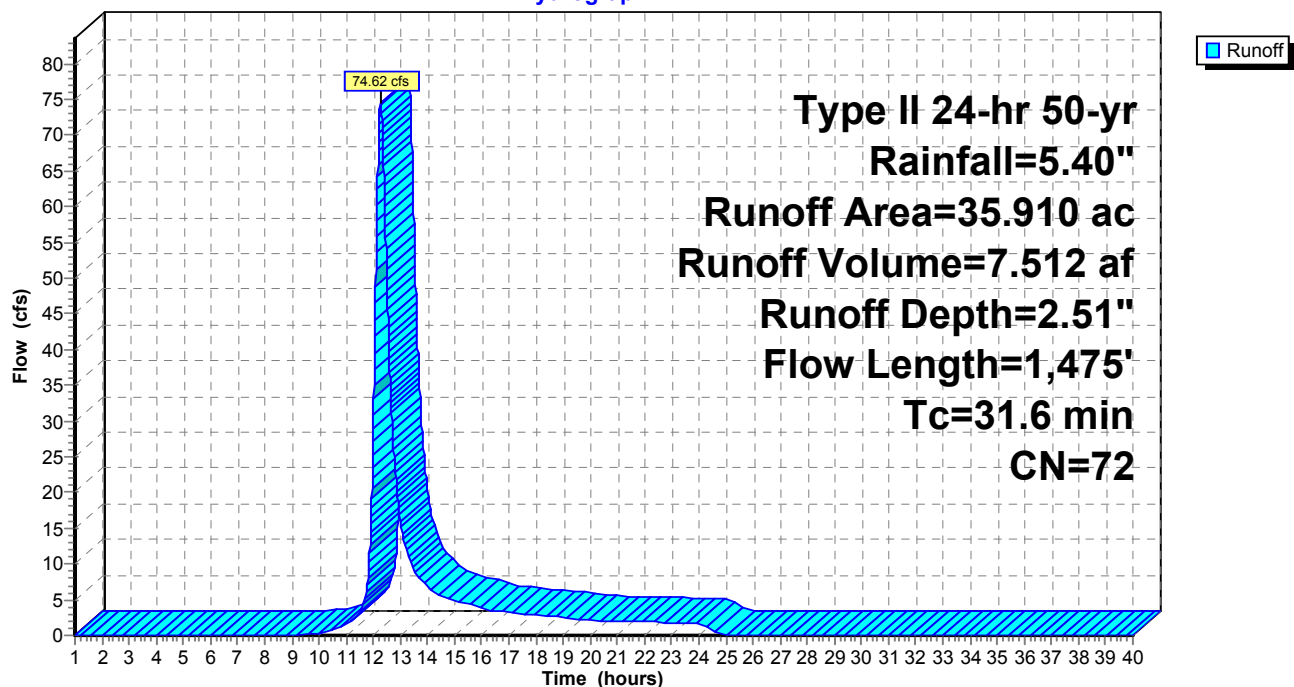
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
35.910	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.6	1,475	0.0300	0.8		Lag/CN Method,

Subcatchment B1: B1

Hydrograph



Subcatchment B10: B10

Runoff = 28.54 cfs @ 11.96 hrs, Volume= 1.272 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

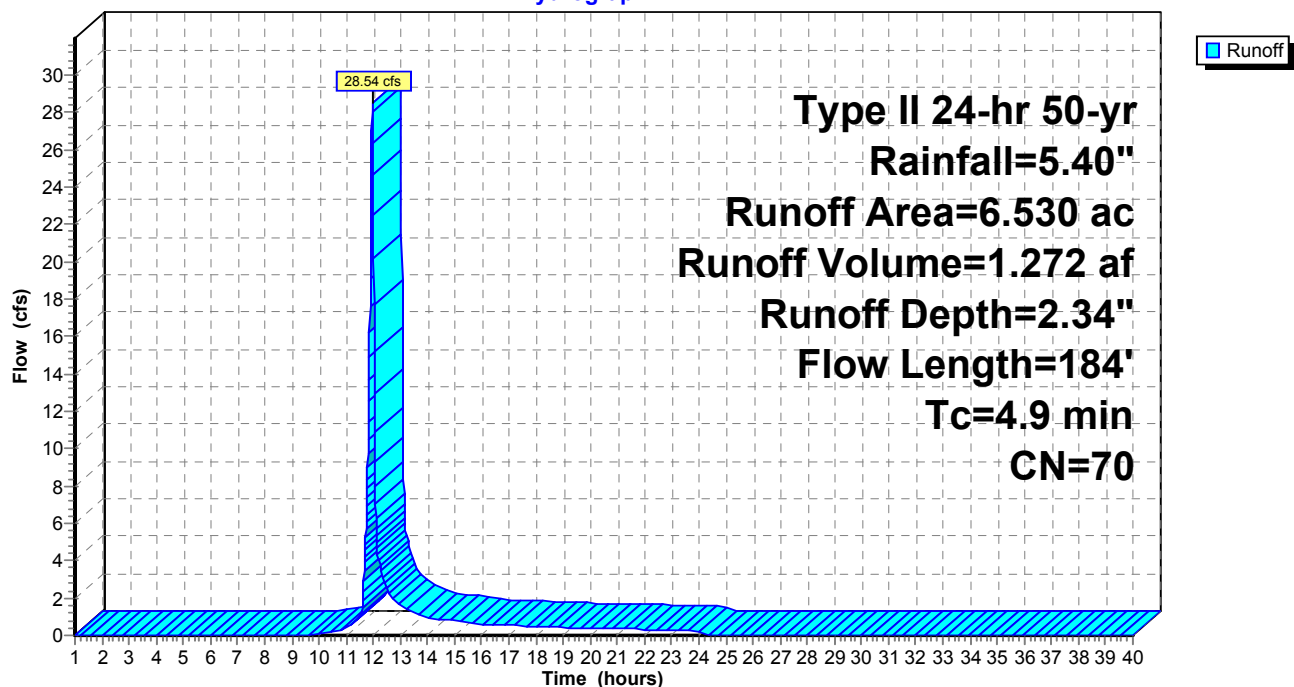
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
6.530	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	184	0.0500	0.6		Lag/CN Method,

Subcatchment B10: B10

Hydrograph



Subcatchment B11: B11

Runoff = 20.29 cfs @ 12.36 hrs, Volume= 2.333 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

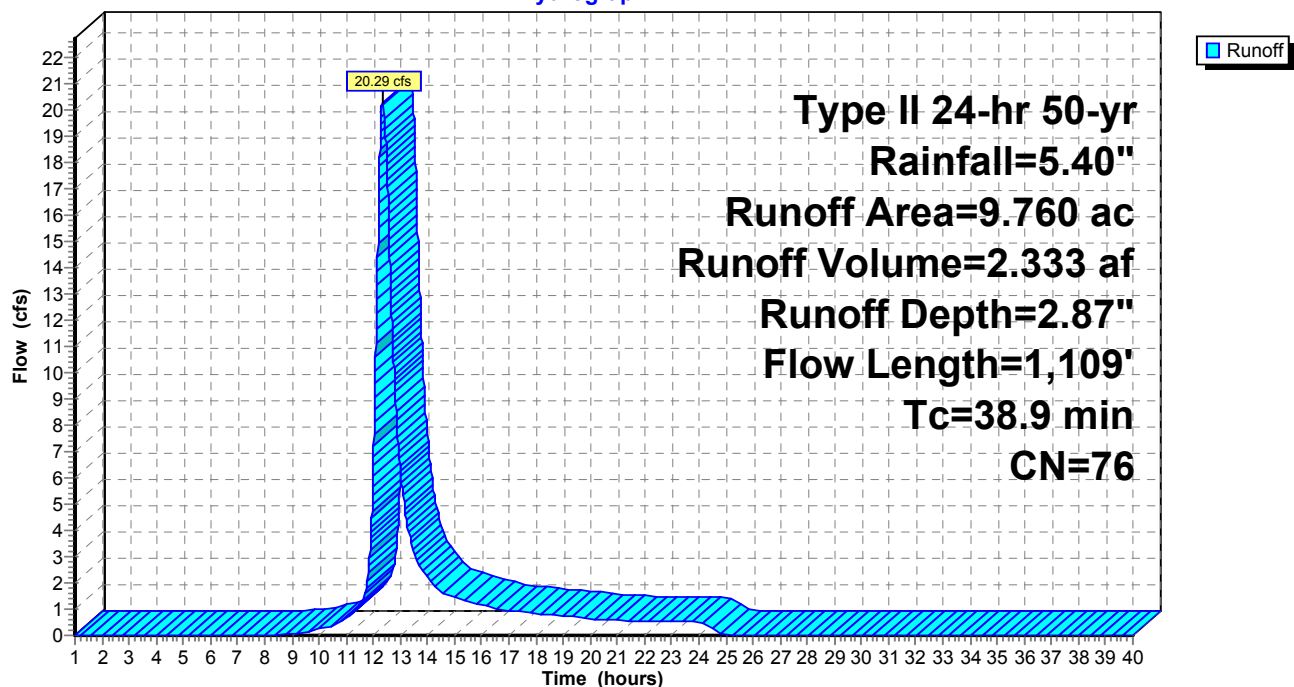
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.760	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.9	1,109	0.0100	0.5		Lag/CN Method,

Subcatchment B11: B11

Hydrograph



Subcatchment B12: B12

Runoff = 19.15 cfs @ 11.99 hrs, Volume= 0.985 af, Depth= 3.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

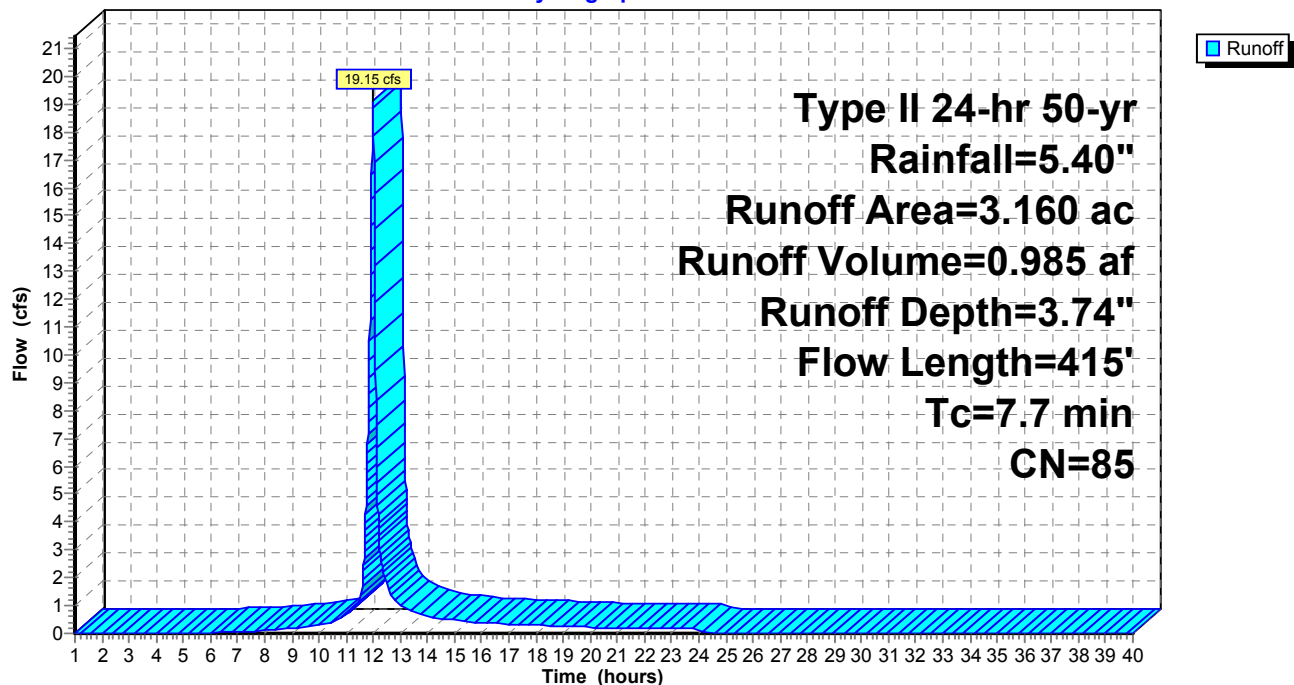
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
3.160	85	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	415	0.0300	0.9		Lag/CN Method,

Subcatchment B12: B12

Hydrograph



Subcatchment B13: B13

Runoff = 32.23 cfs @ 12.00 hrs, Volume= 1.623 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

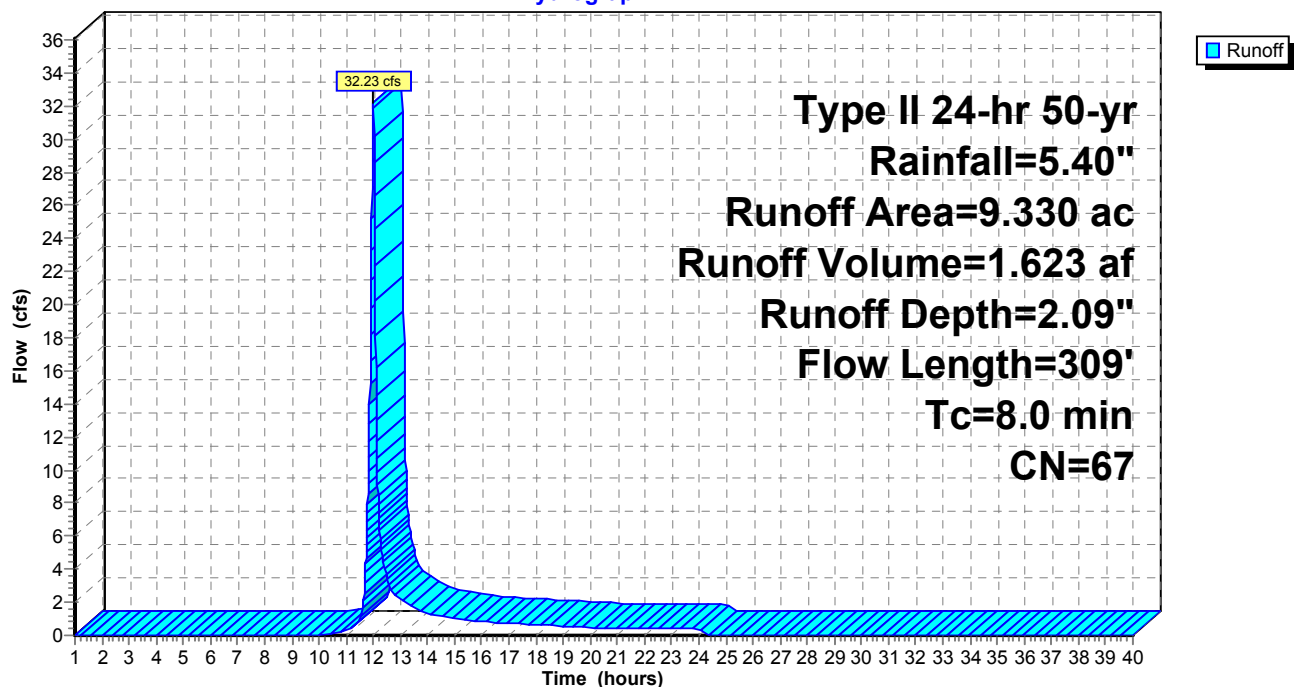
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.330	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	309	0.0500	0.6		Lag/CN Method,

Subcatchment B13: B13

Hydrograph



Subcatchment B2: B2

Runoff = 32.12 cfs @ 12.01 hrs, Volume= 1.657 af, Depth= 1.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

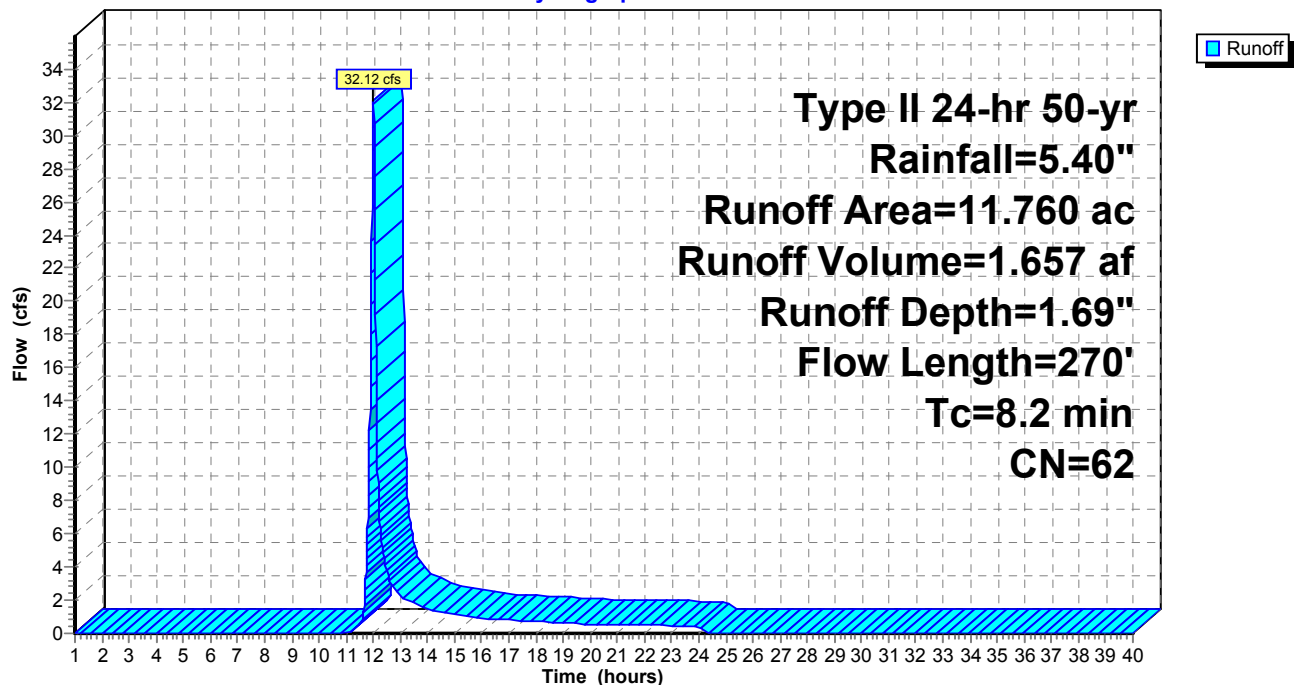
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
11.760	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	270	0.0500	0.5		Lag/CN Method,

Subcatchment B2: B2

Hydrograph



Subcatchment B3: B3

Runoff = 37.84 cfs @ 11.95 hrs, Volume= 1.646 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

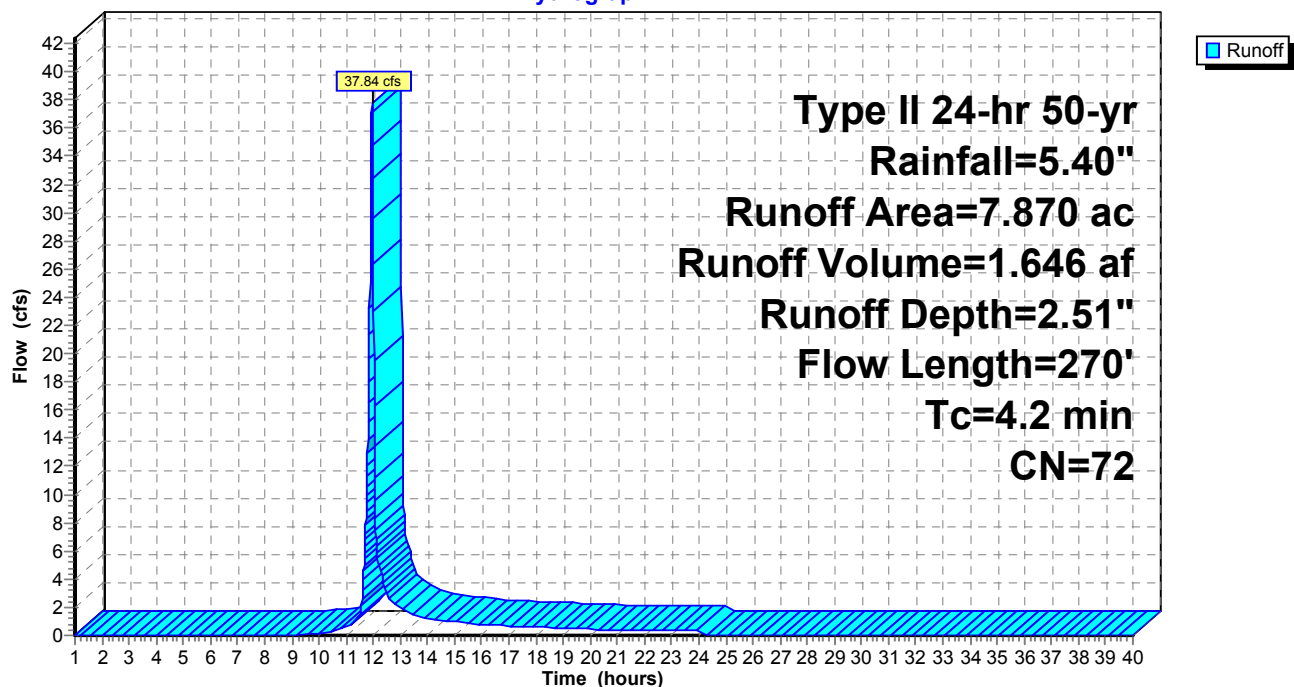
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.870	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	270	0.1100	1.1		Lag/CN Method,

Subcatchment B3: B3

Hydrograph



Subcatchment B4: B4

Runoff = 8.65 cfs @ 12.33 hrs, Volume= 0.999 af, Depth= 1.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

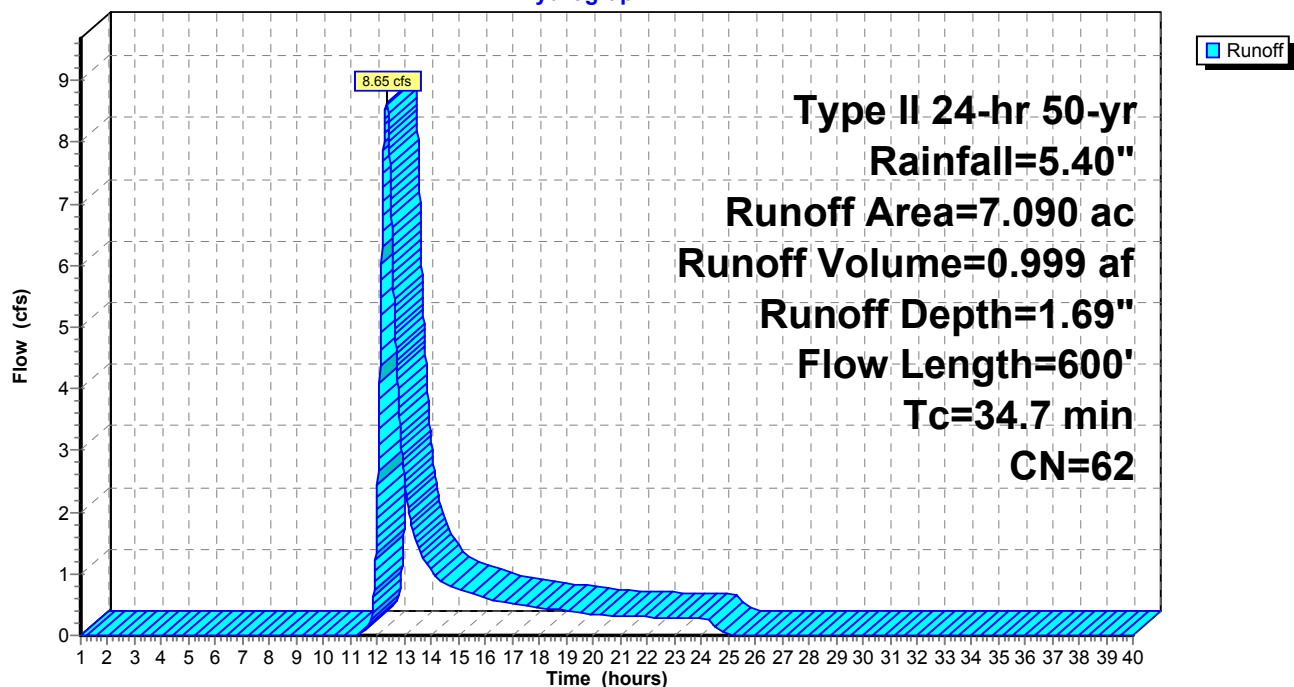
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.090	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.7	600	0.0100	0.3		Lag/CN Method,

Subcatchment B4: B4

Hydrograph



Subcatchment B5: B5

Runoff = 98.74 cfs @ 12.03 hrs, Volume= 5.460 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

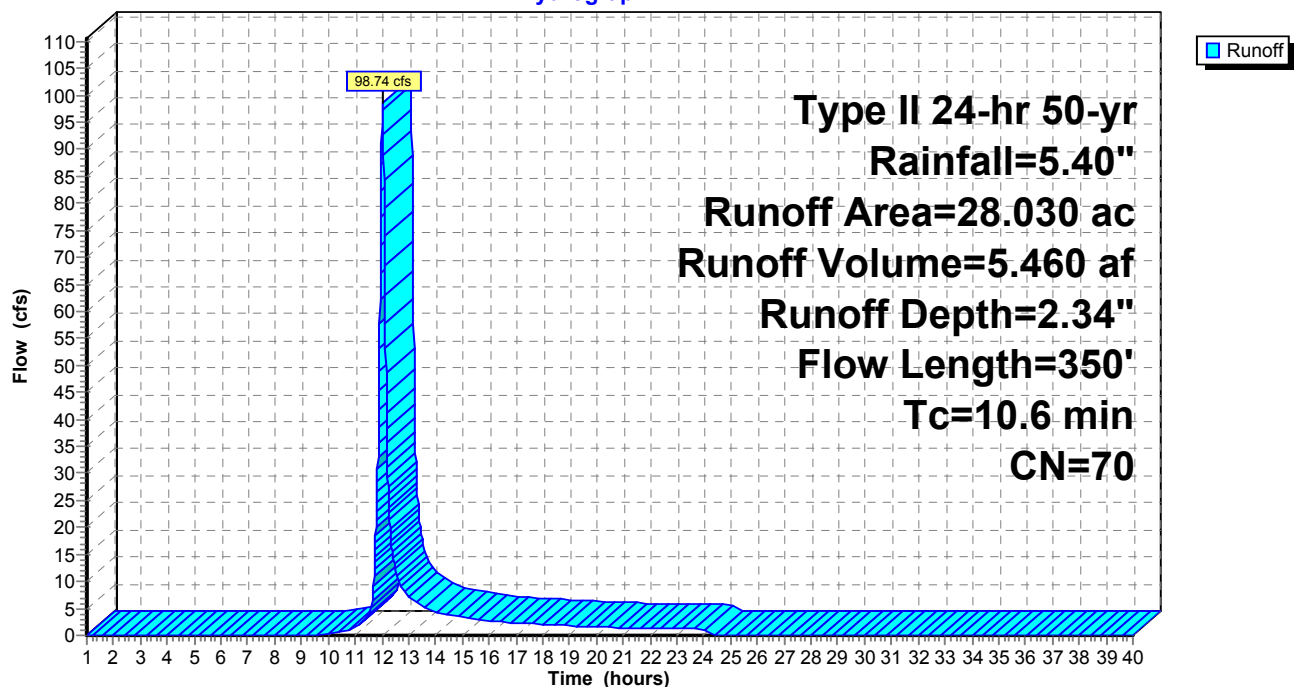
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
28.030	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	350	0.0300	0.6		Lag/CN Method,

Subcatchment B5: B5

Hydrograph



Subcatchment B6: B6

Runoff = 55.67 cfs @ 12.01 hrs, Volume= 2.905 af, Depth= 2.17"

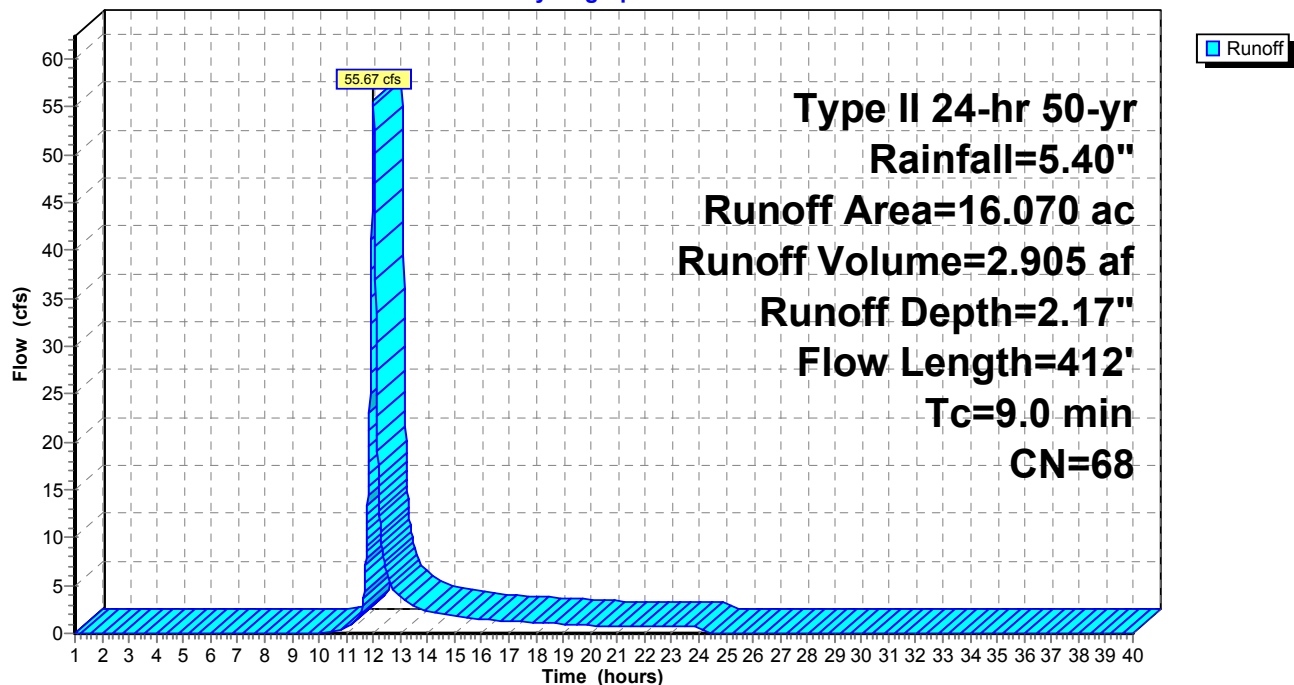
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
16.070	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	412	0.0600	0.8		Lag/CN Method,

Subcatchment B6: B6

Hydrograph



Subcatchment B7: B7

Runoff = 20.57 cfs @ 12.34 hrs, Volume= 2.368 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

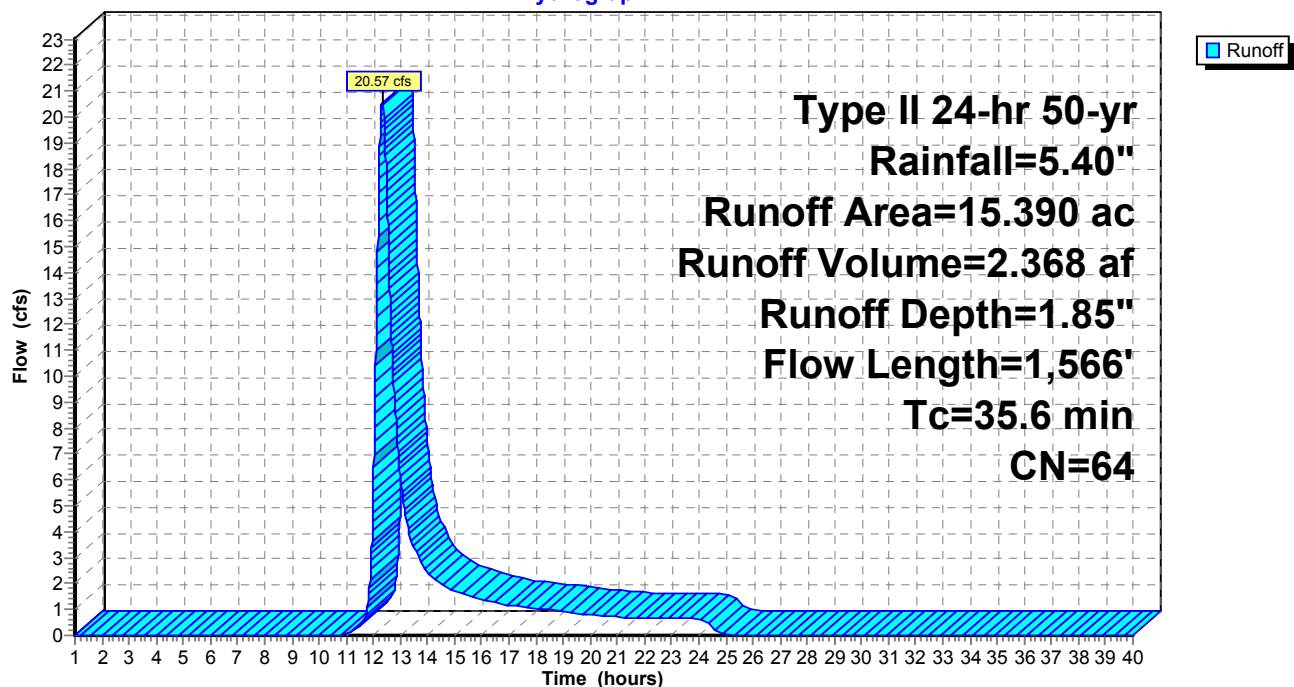
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
15.390	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.6	1,566	0.0400	0.7		Lag/CN Method,

Subcatchment B7: B7

Hydrograph



Subcatchment B8: B8

Runoff = 25.52 cfs @ 12.06 hrs, Volume= 1.579 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

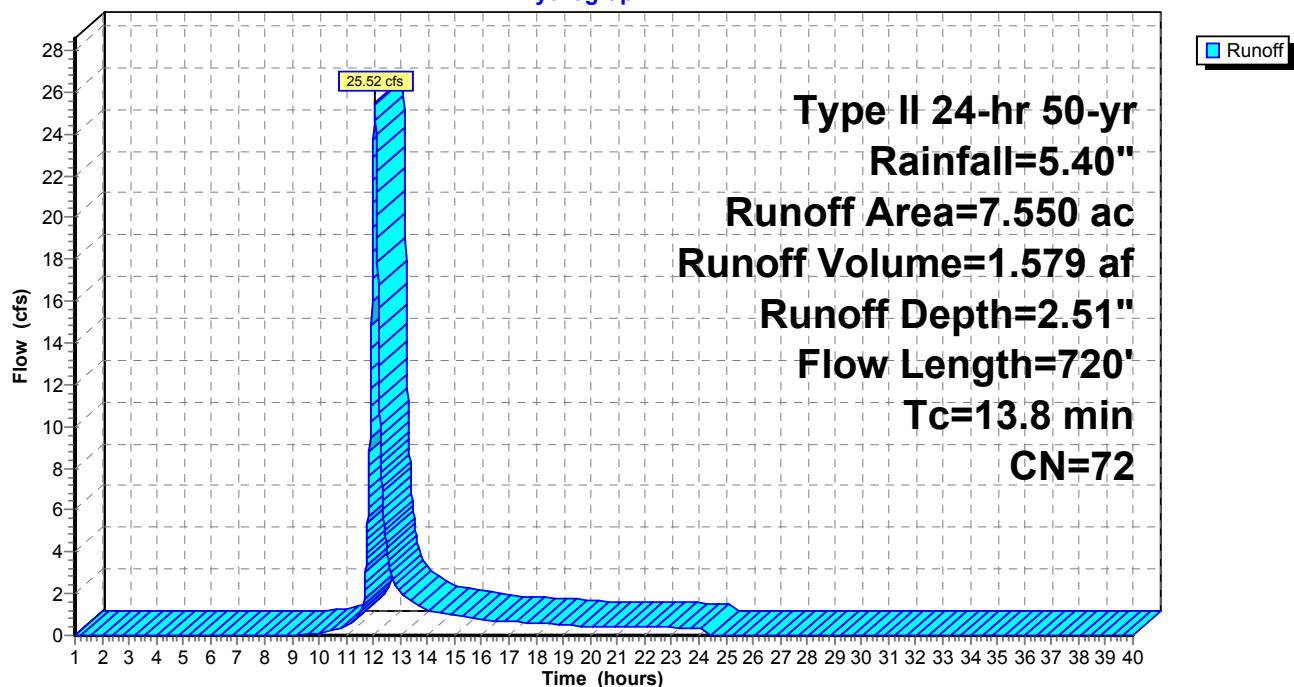
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.550	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	720	0.0500	0.9		Lag/CN Method,

Subcatchment B8: B8

Hydrograph



Subcatchment B9: B9

Runoff = 36.12 cfs @ 12.20 hrs, Volume= 3.214 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

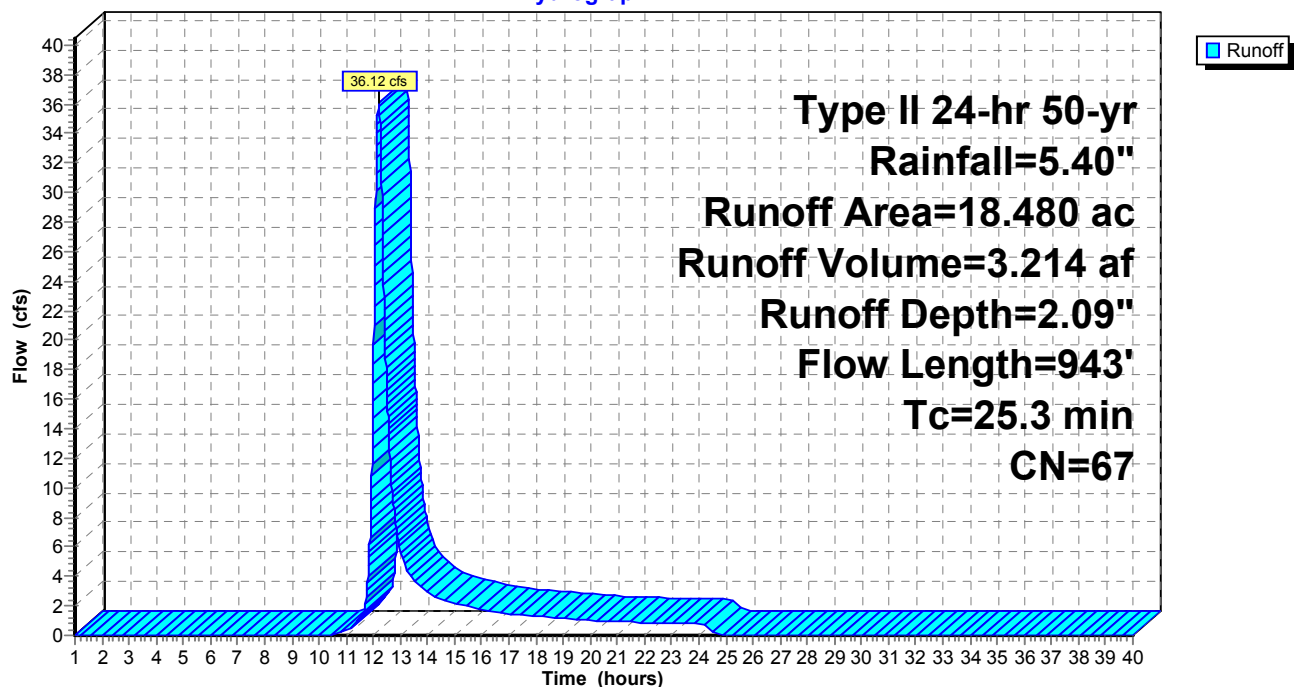
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.480	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	943	0.0300	0.6		Lag/CN Method,

Subcatchment B9: B9

Hydrograph



Subcatchment C1: C1

Runoff = 47.49 cfs @ 12.11 hrs, Volume= 3.342 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

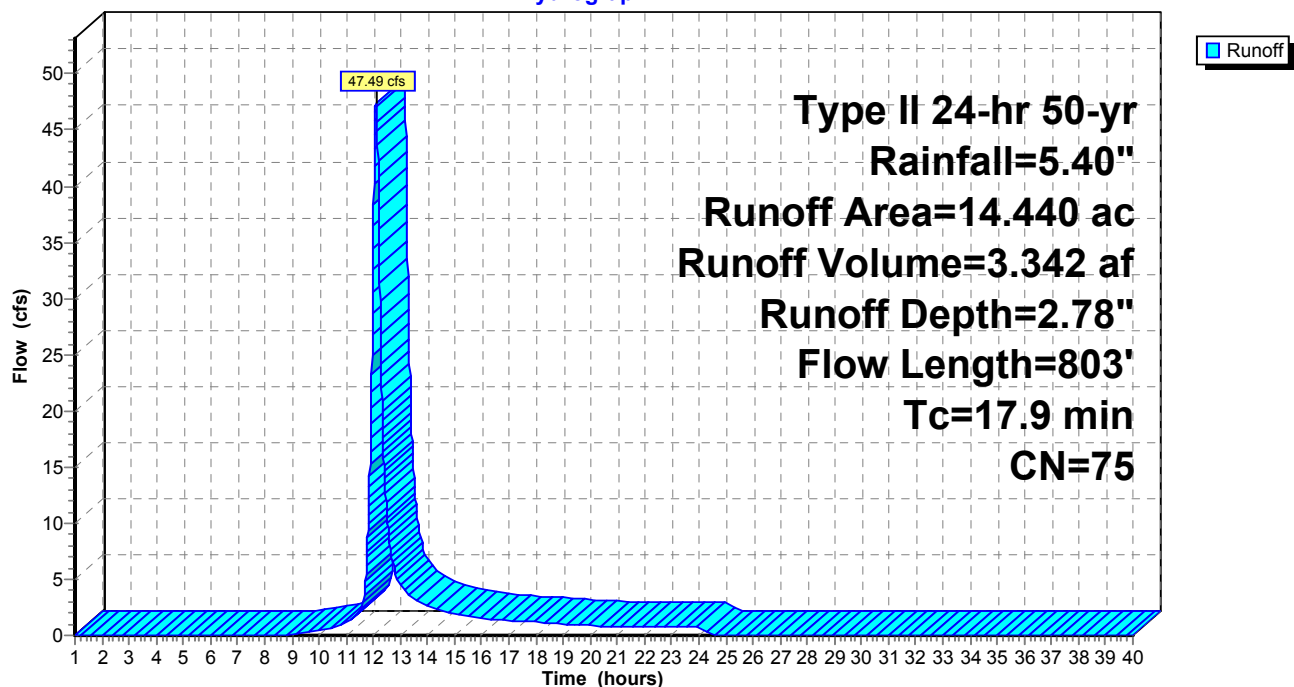
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
14.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.9	803	0.0300	0.7		Lag/CN Method,

Subcatchment C1: C1

Hydrograph



Subcatchment C3: C3

Runoff = 56.73 cfs @ 12.90 hrs, Volume= 11.462 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

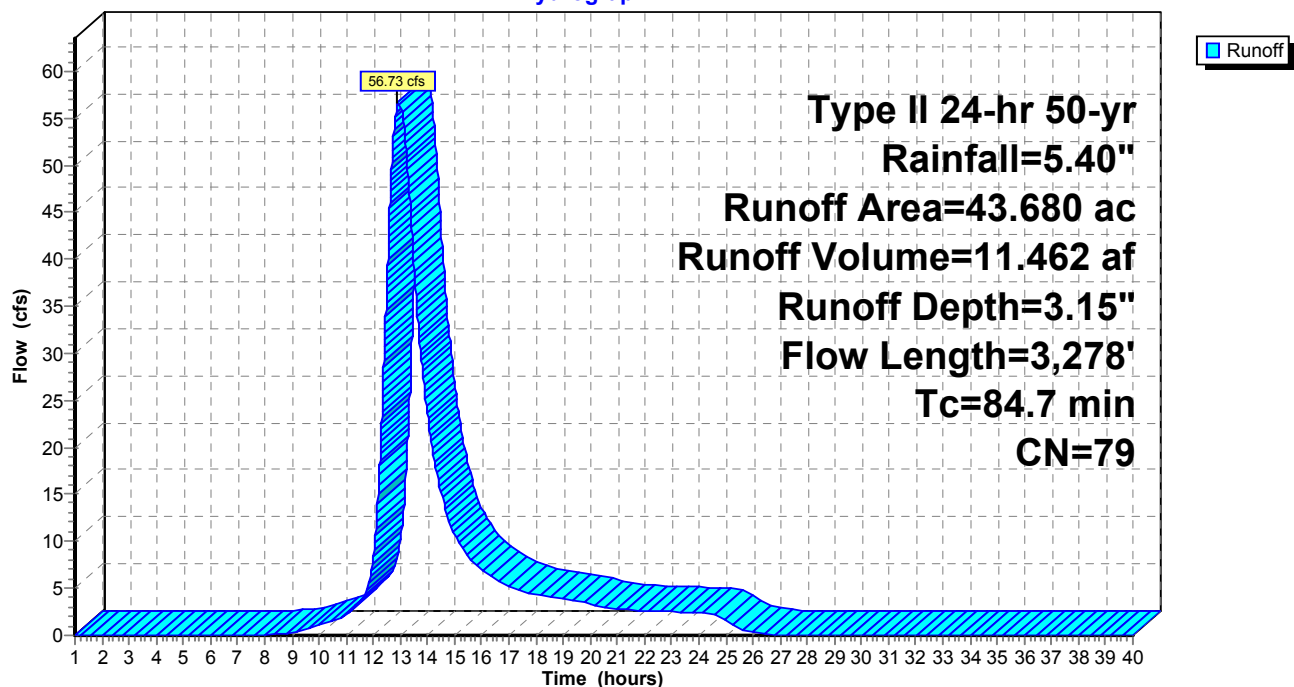
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
43.680	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
84.7	3,278	0.0100	0.6		Lag/CN Method,

Subcatchment C3: C3

Hydrograph



Subcatchment C4: C4

Runoff = 66.23 cfs @ 11.98 hrs, Volume= 3.087 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

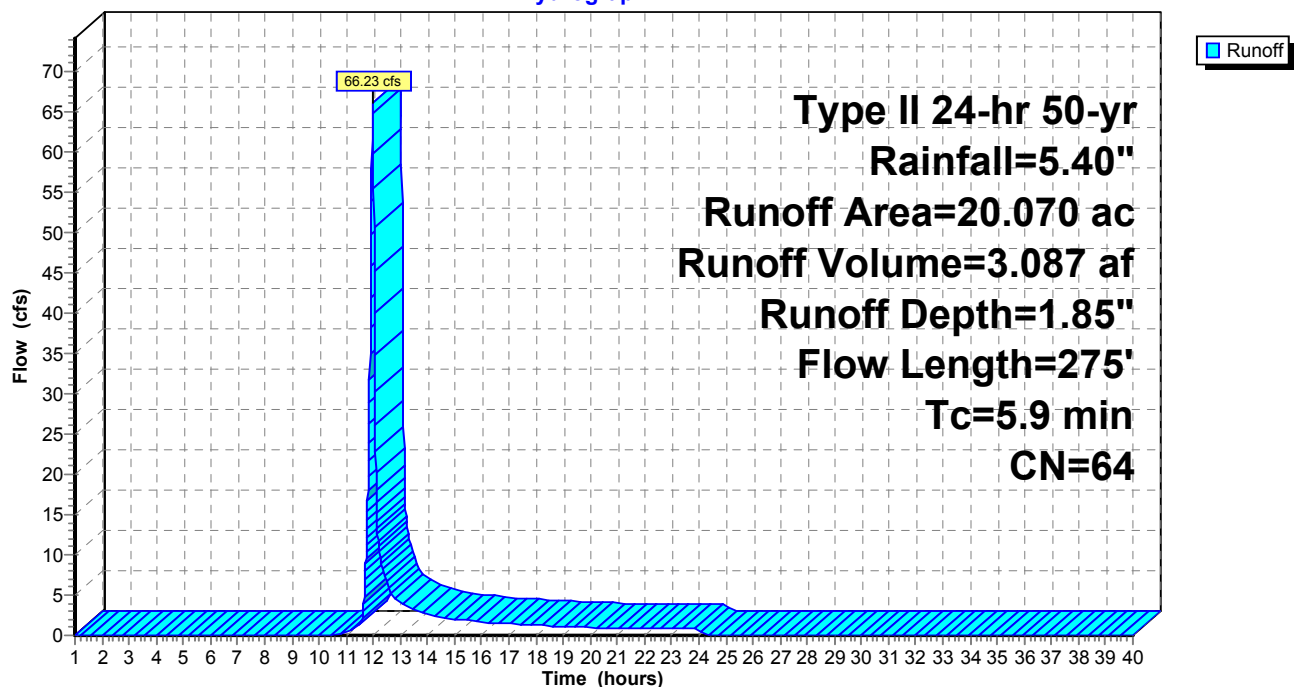
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
20.070	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	275	0.0900	0.8		Lag/CN Method,

Subcatchment C4: C4

Hydrograph



Subcatchment C5: C5

Runoff = 32.05 cfs @ 12.19 hrs, Volume= 2.786 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

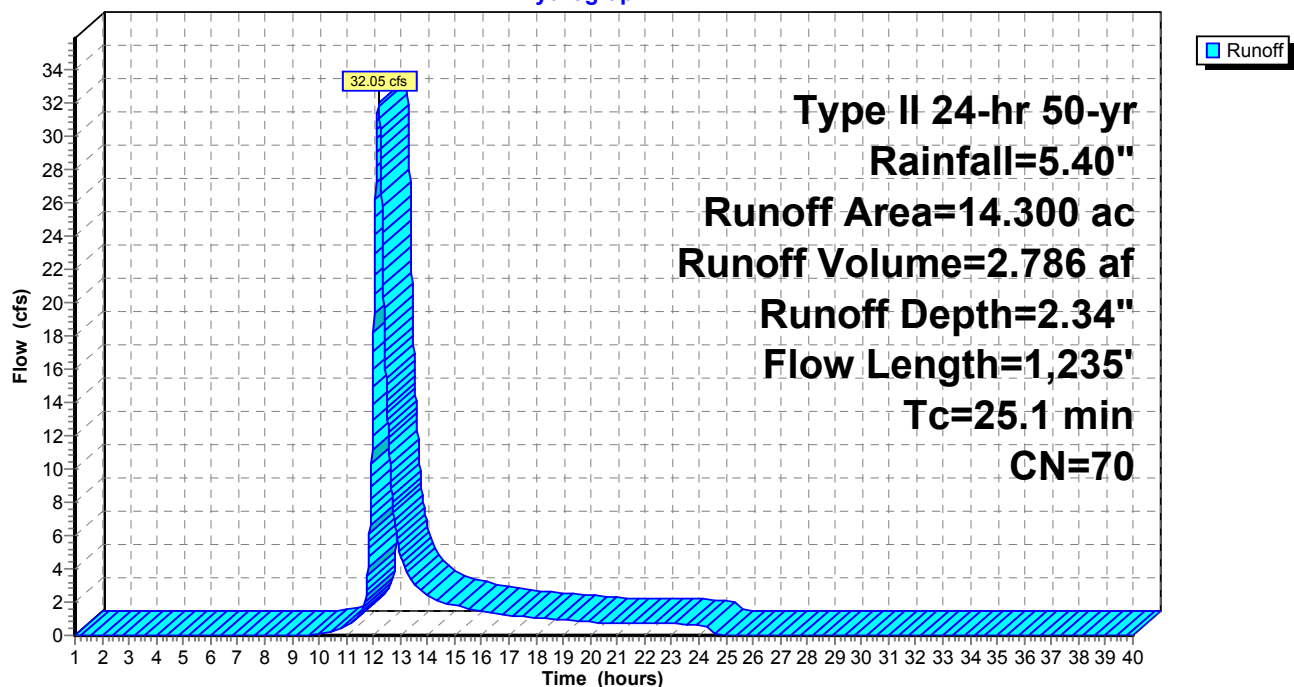
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
14.300	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,235	0.0400	0.8		Lag/CN Method,

Subcatchment C5: C5

Hydrograph



Subcatchment C6: C6

Runoff = 56.33 cfs @ 11.97 hrs, Volume= 2.549 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

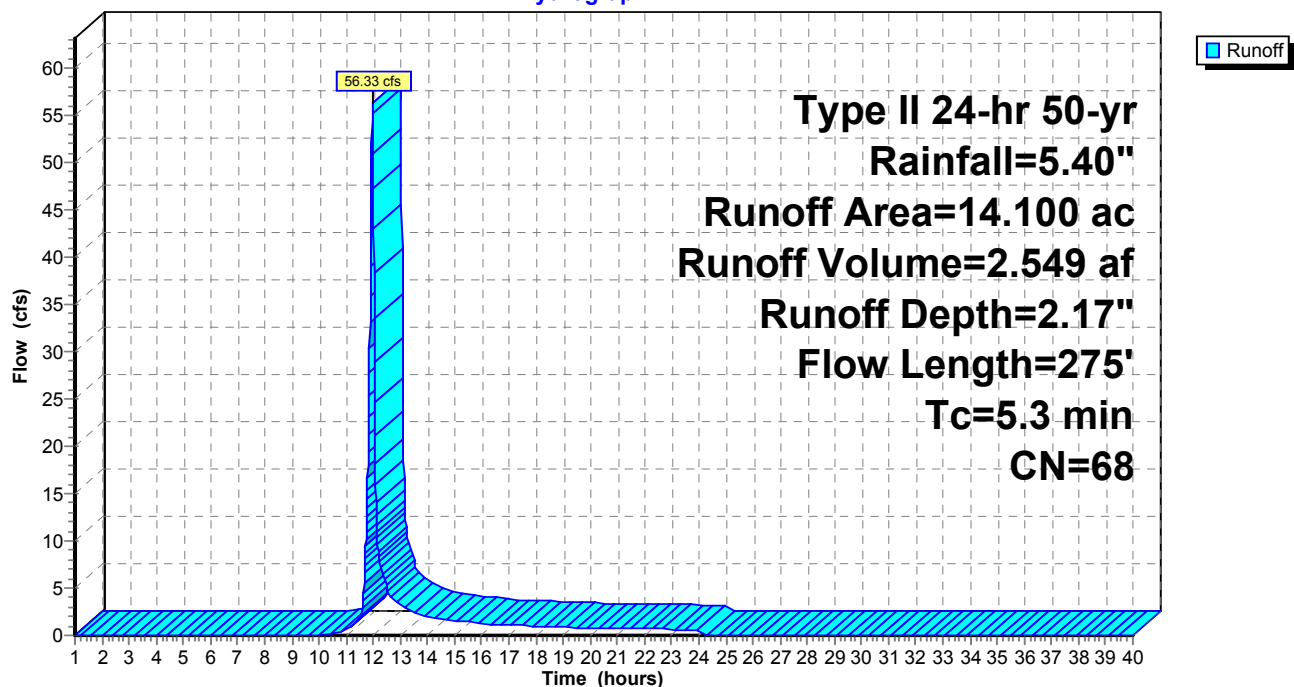
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
14.100	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	275	0.0900	0.9		Lag/CN Method,

Subcatchment C6: C6

Hydrograph



Subcatchment C7: C7

Runoff = 43.97 cfs @ 11.96 hrs, Volume= 1.956 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

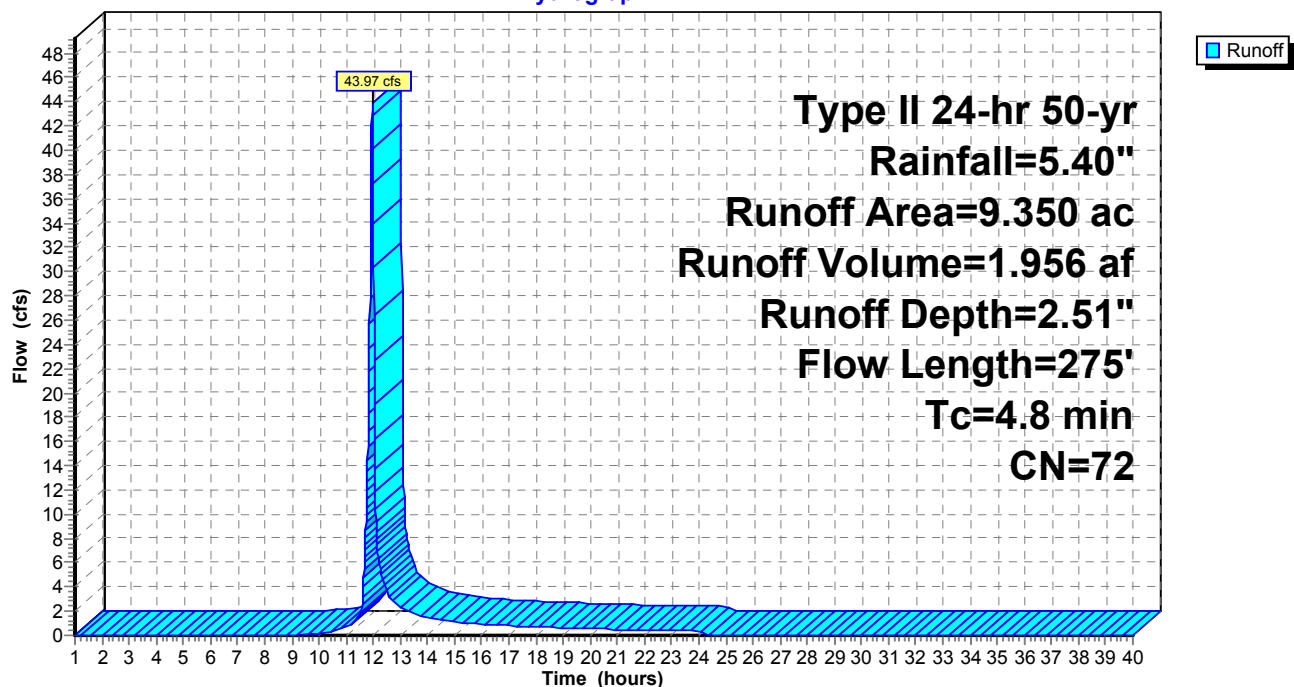
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.350	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	275	0.0900	1.0		Lag/CN Method,

Subcatchment C7: C7

Hydrograph



Subcatchment C8: C8

Runoff = 30.48 cfs @ 11.93 hrs, Volume= 1.259 af, Depth= 2.78"

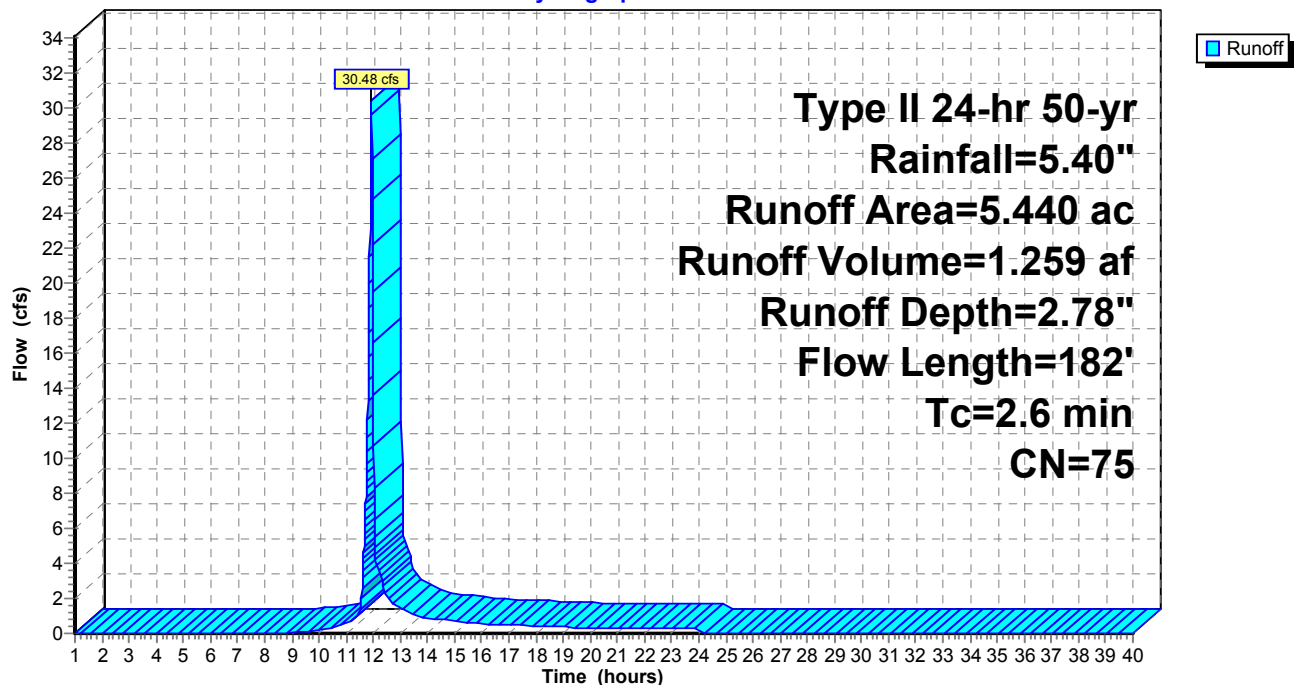
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	182	0.1300	1.2		Lag/CN Method,

Subcatchment C8: C8

Hydrograph



Subcatchment W100: W100

Runoff = 8.45 cfs @ 12.02 hrs, Volume= 0.461 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

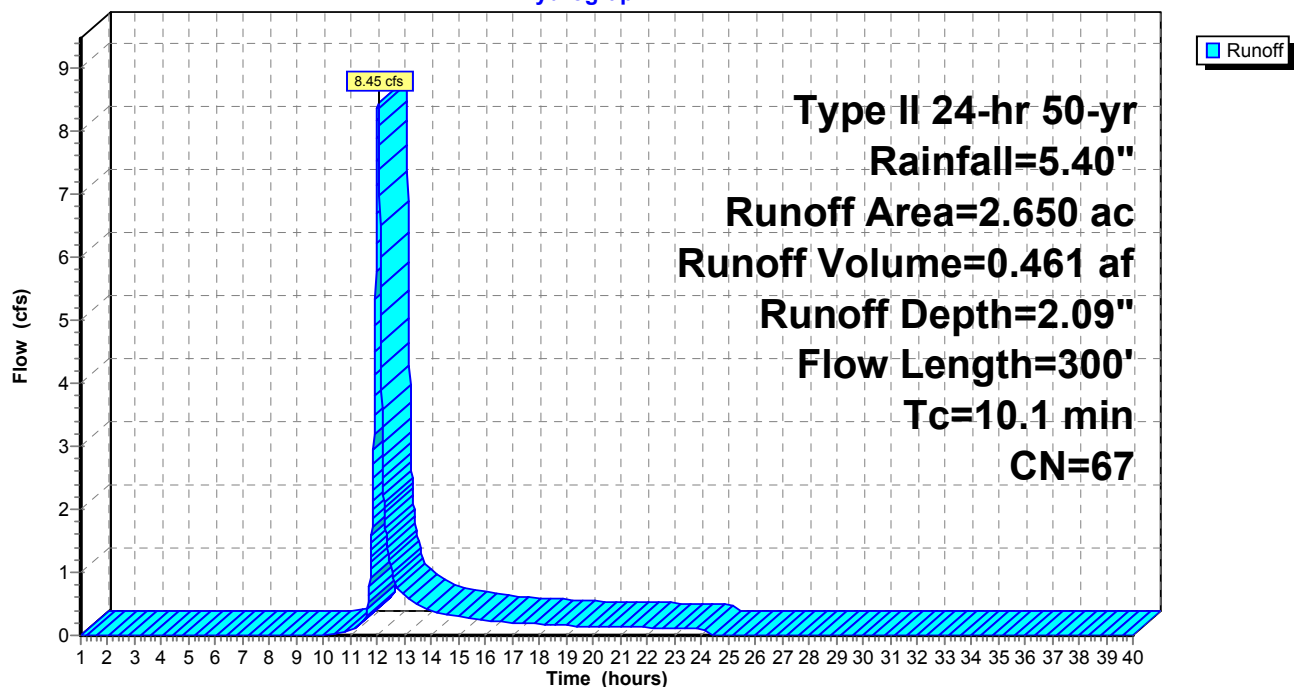
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
2.650	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	300	0.0300	0.5		Lag/CN Method,

Subcatchment W100: W100

Hydrograph



Subcatchment W101: W101

Runoff = 39.92 cfs @ 12.31 hrs, Volume= 4.342 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

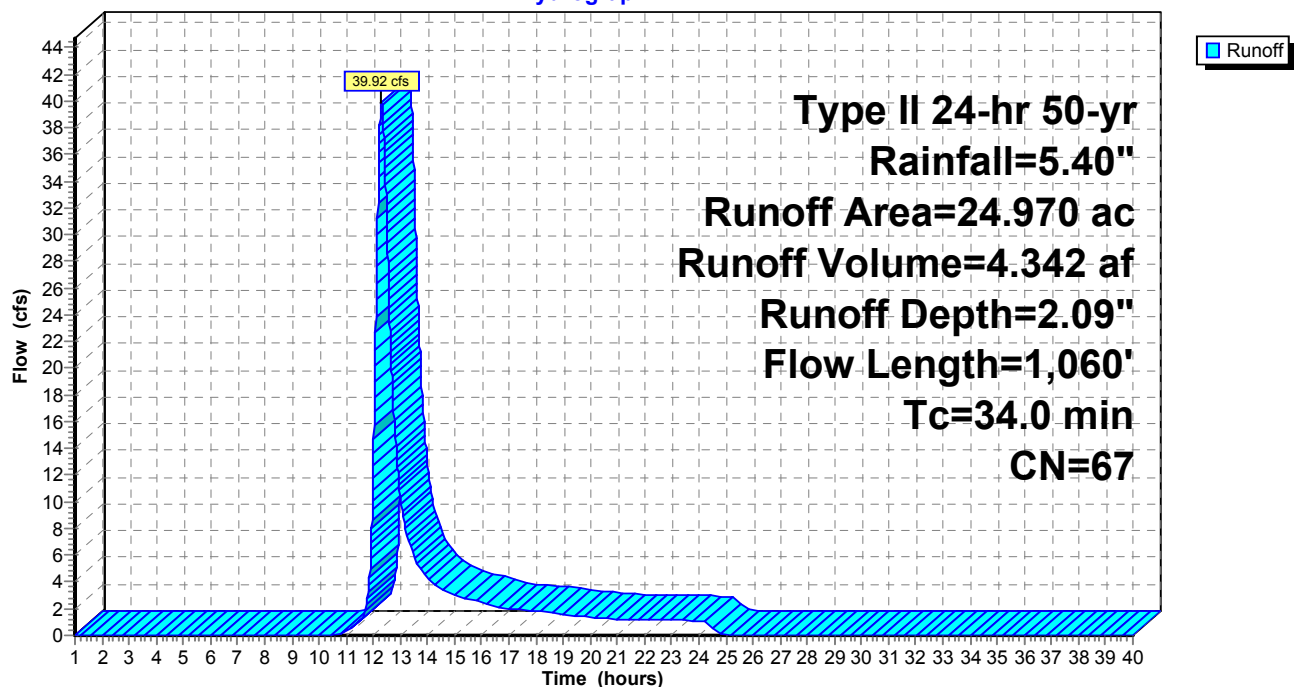
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
24.970	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.0	1,060	0.0200	0.5		Lag/CN Method,

Subcatchment W101: W101

Hydrograph



Subcatchment W102: W102

Runoff = 149.01 cfs @ 12.20 hrs, Volume= 13.103 af, Depth= 3.44"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

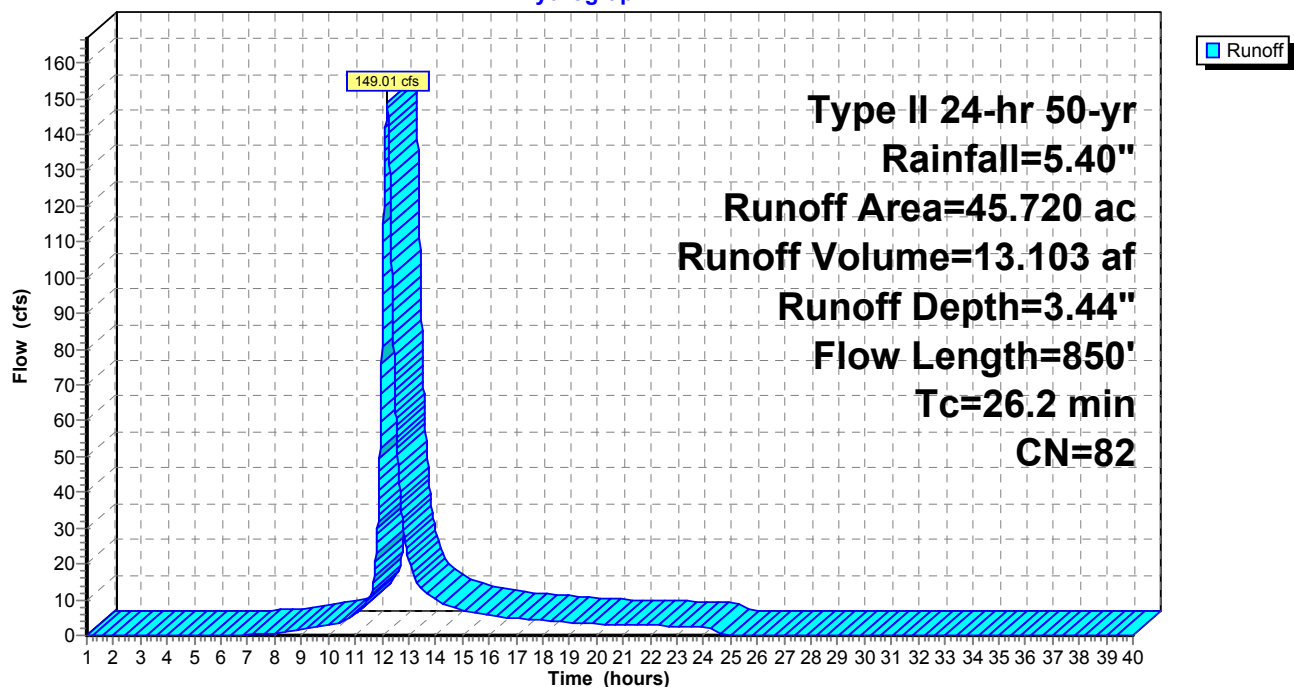
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
45.720	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.2	850	0.0100	0.5		Lag/CN Method,

Subcatchment W102: W102

Hydrograph



Subcatchment W103: W103

Runoff = 7.95 cfs @ 12.00 hrs, Volume= 0.424 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

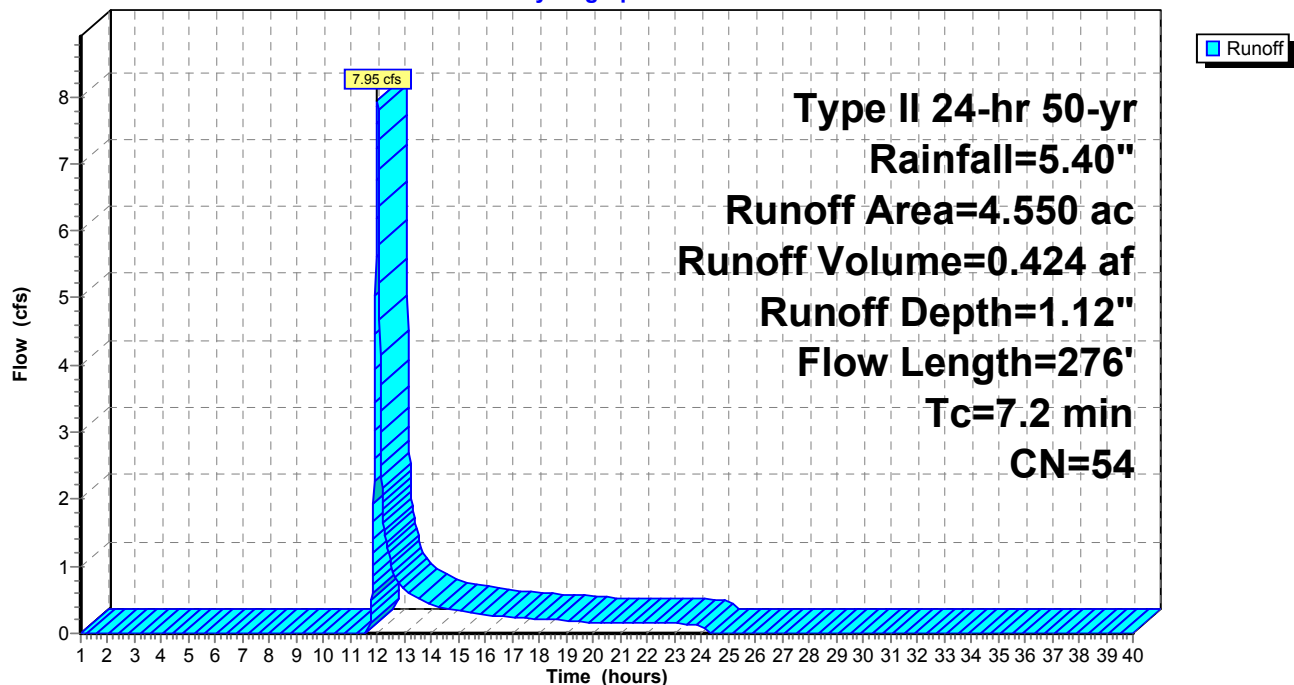
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.550	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	276	0.1000	0.6		Lag/CN Method,

Subcatchment W103: W103

Hydrograph



Subcatchment W104: W104

Runoff = 144.44 cfs @ 12.24 hrs, Volume= 13.825 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

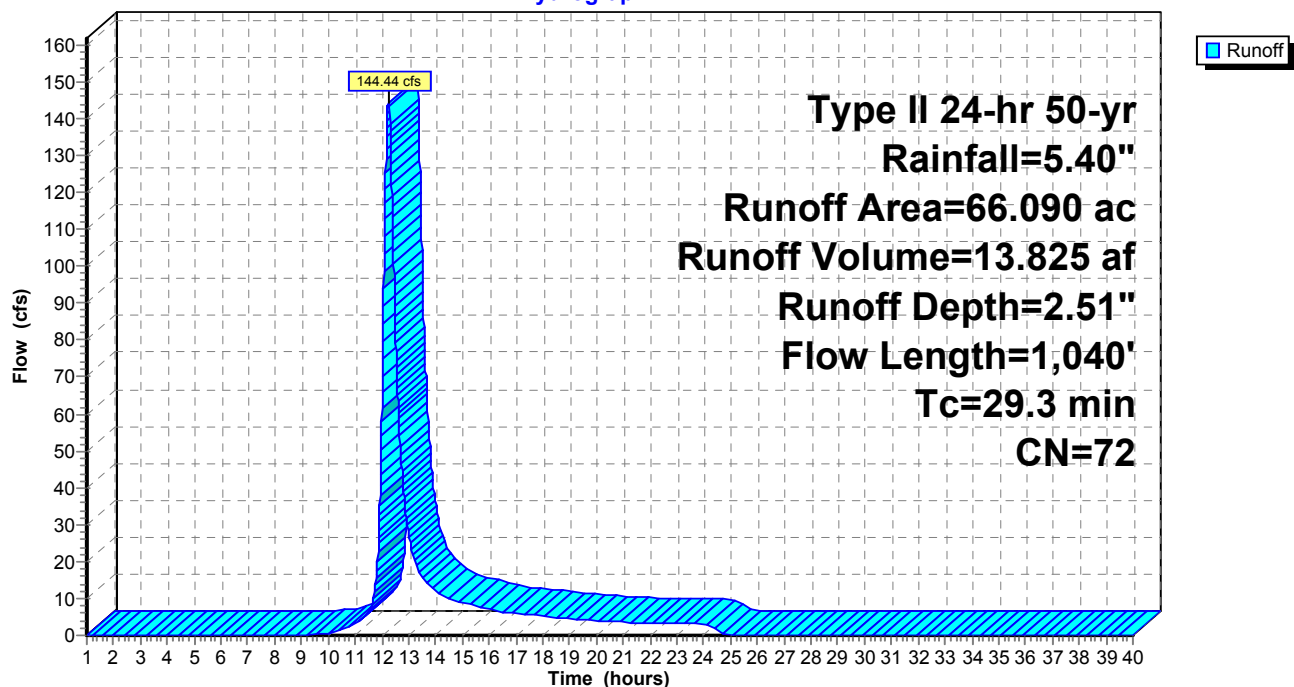
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
66.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.3	1,040	0.0200	0.6		Lag/CN Method,

Subcatchment W104: W104

Hydrograph



Subcatchment W105: W105

Runoff = 22.63 cfs @ 12.08 hrs, Volume= 1.523 af, Depth= 1.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

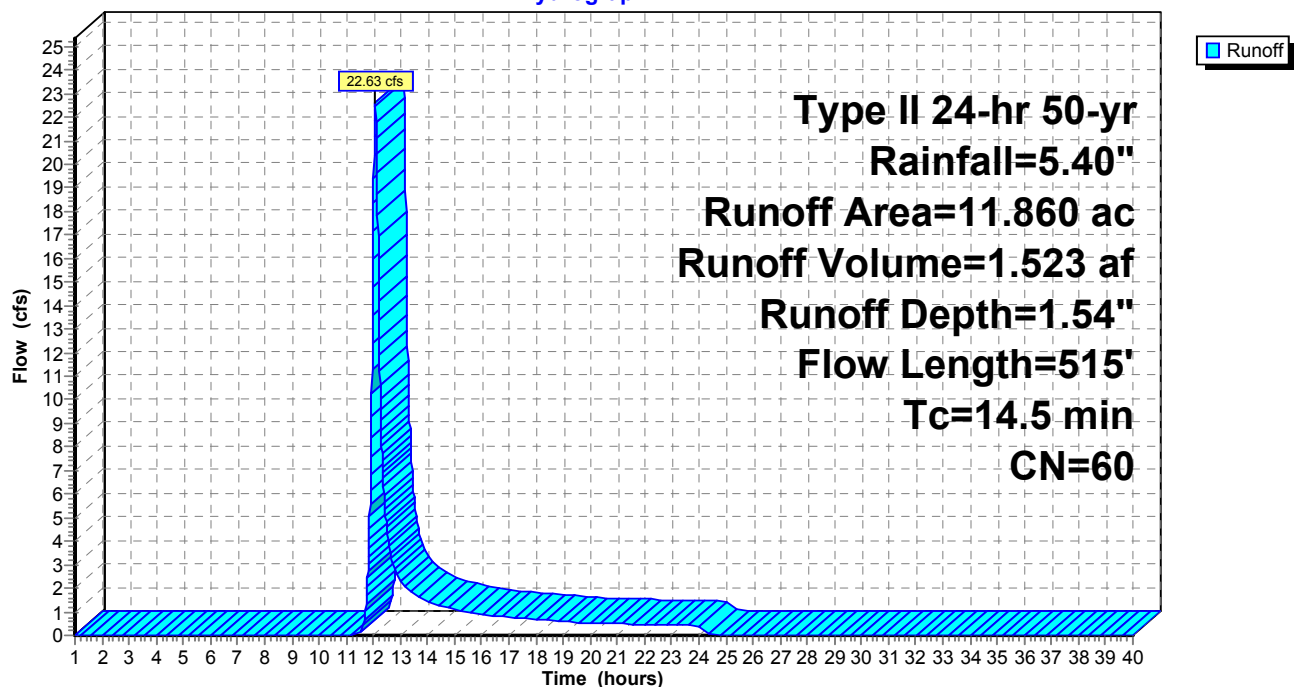
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
11.860	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	515	0.0500	0.6		Lag/CN Method,

Subcatchment W105: W105

Hydrograph



Subcatchment W106: W106

Runoff = 56.43 cfs @ 11.96 hrs, Volume= 2.677 af, Depth= 3.64"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

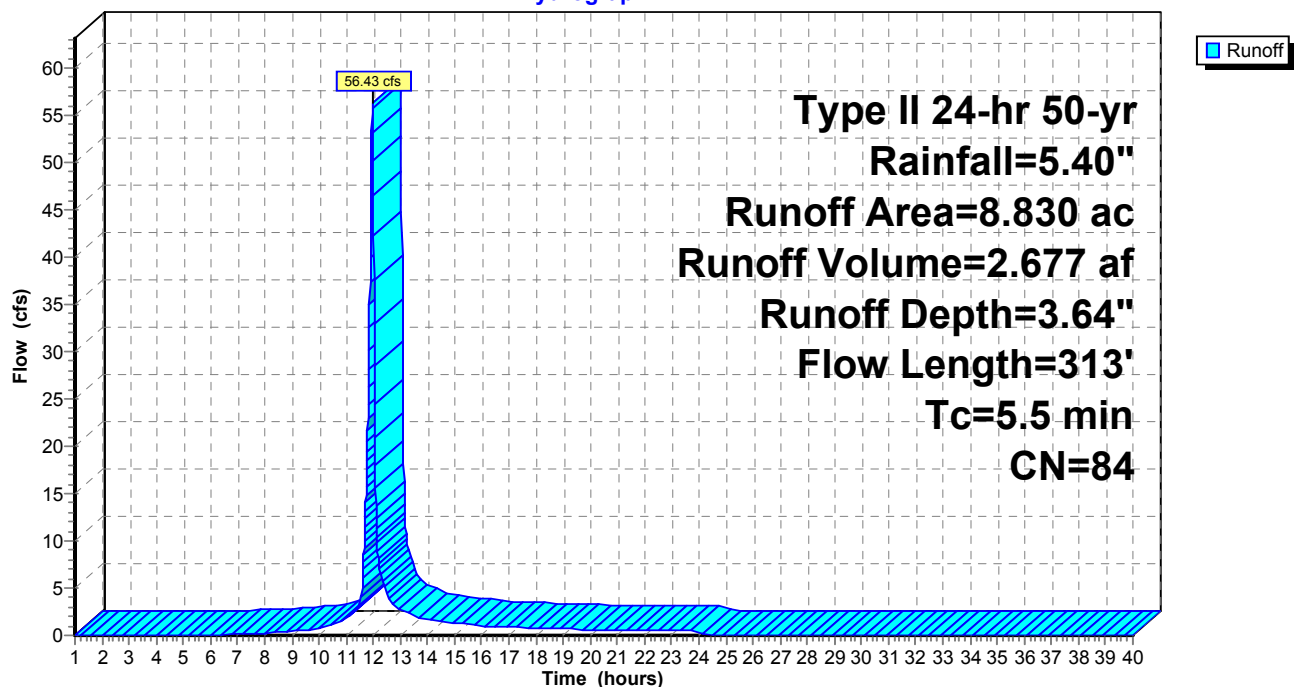
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.830	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	313	0.0400	0.9		Lag/CN Method,

Subcatchment W106: W106

Hydrograph



Subcatchment W107: W107

Runoff = 93.18 cfs @ 12.07 hrs, Volume= 6.082 af, Depth= 2.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

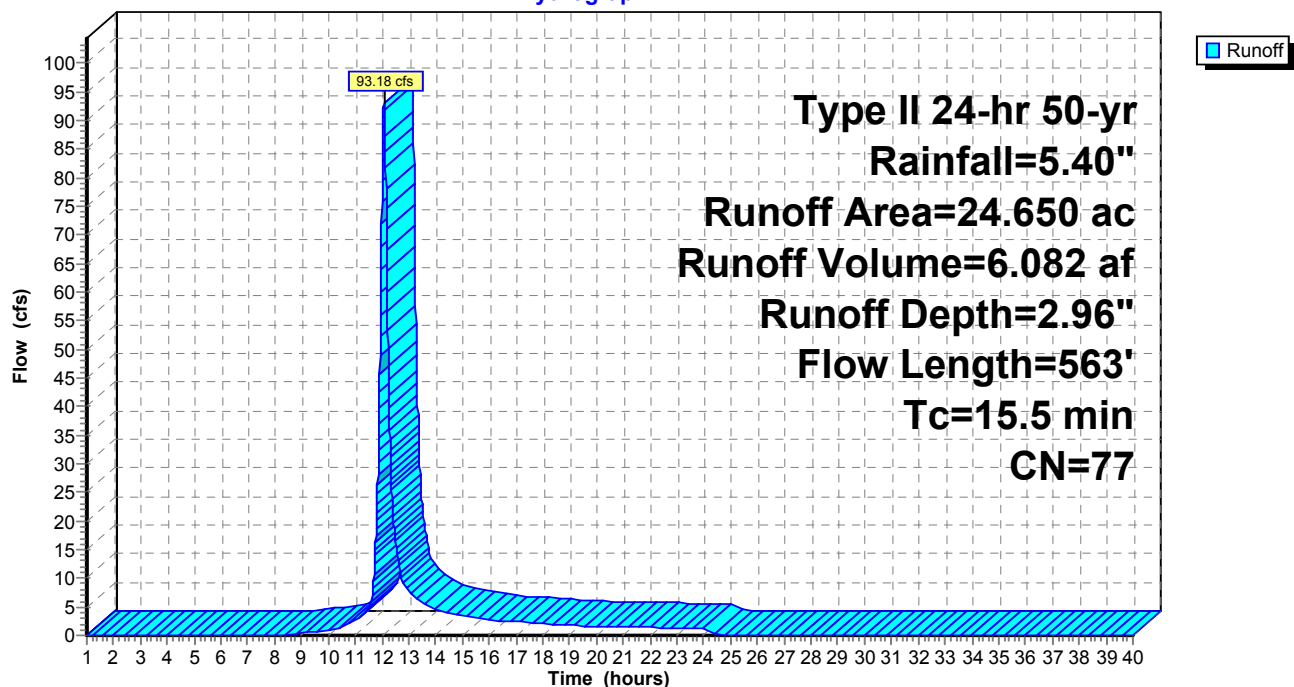
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
24.650	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	563	0.0200	0.6		Lag/CN Method,

Subcatchment W107: W107

Hydrograph



Subcatchment W108: W108

Runoff = 30.96 cfs @ 12.09 hrs, Volume= 2.137 af, Depth= 2.87"

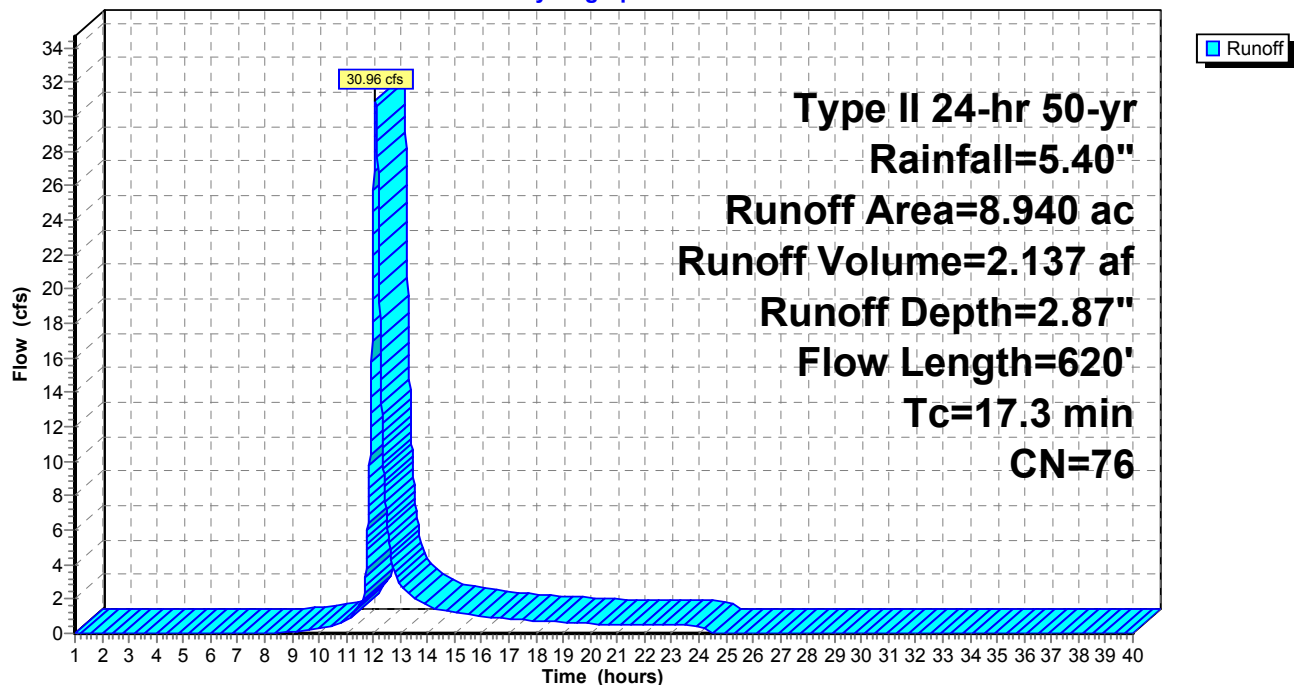
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.940	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	620	0.0200	0.6		Lag/CN Method,

Subcatchment W108: W108

Hydrograph



Subcatchment W109: W109

Runoff = 12.37 cfs @ 12.23 hrs, Volume= 1.178 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

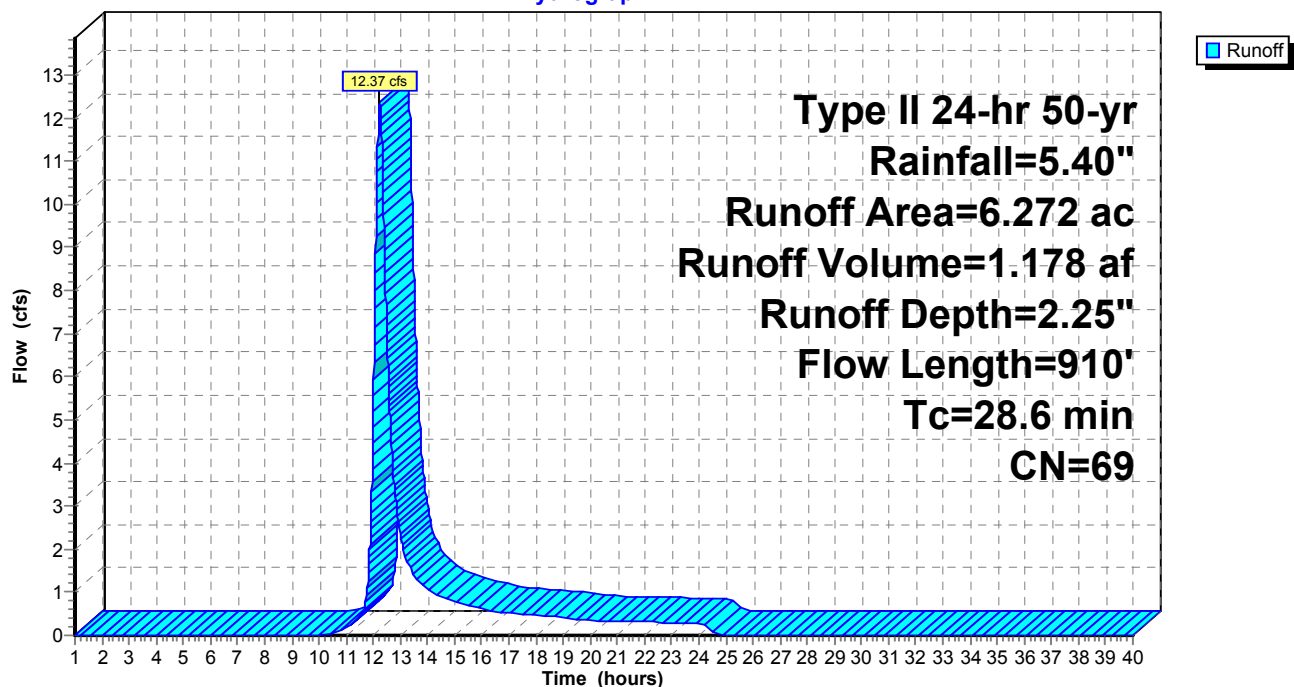
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
6.272	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	910	0.0200	0.5		Lag/CN Method,

Subcatchment W109: W109

Hydrograph



Subcatchment W110: W110

Runoff = 14.42 cfs @ 13.76 hrs, Volume= 4.898 af, Depth= 1.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

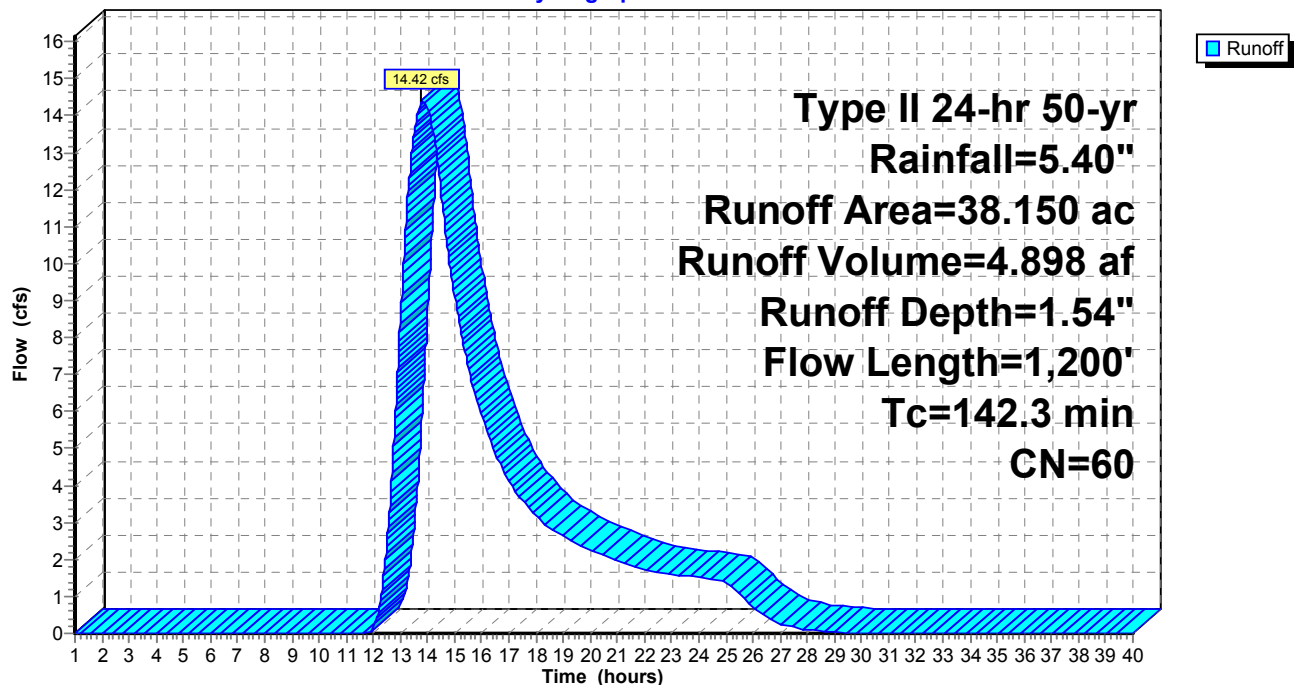
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
38.150	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
142.3	1,200	0.0020	0.1		Lag/CN Method,

Subcatchment W110: W110

Hydrograph



Subcatchment W111: W111

Runoff = 12.31 cfs @ 12.02 hrs, Volume= 0.659 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

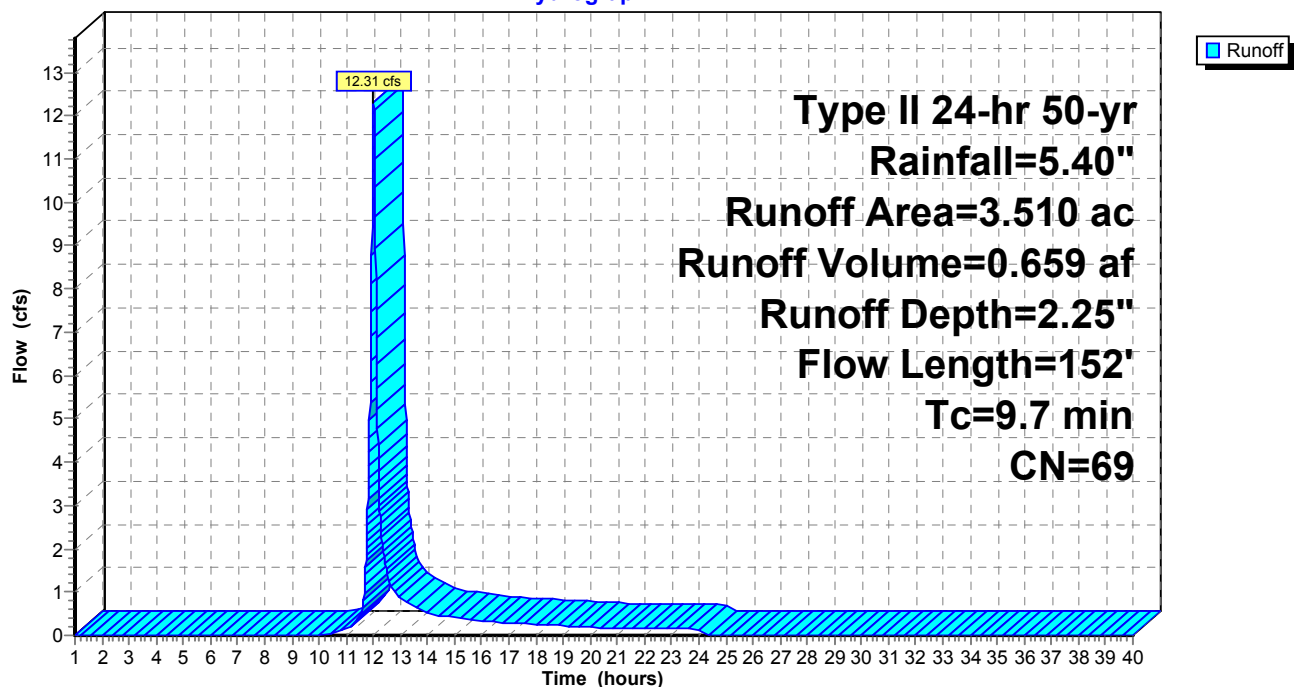
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
3.510	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	152	0.0100	0.3		Lag/CN Method,

Subcatchment W111: W111

Hydrograph



Subcatchment W112: W112

Runoff = 10.63 cfs @ 13.42 hrs, Volume= 3.323 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

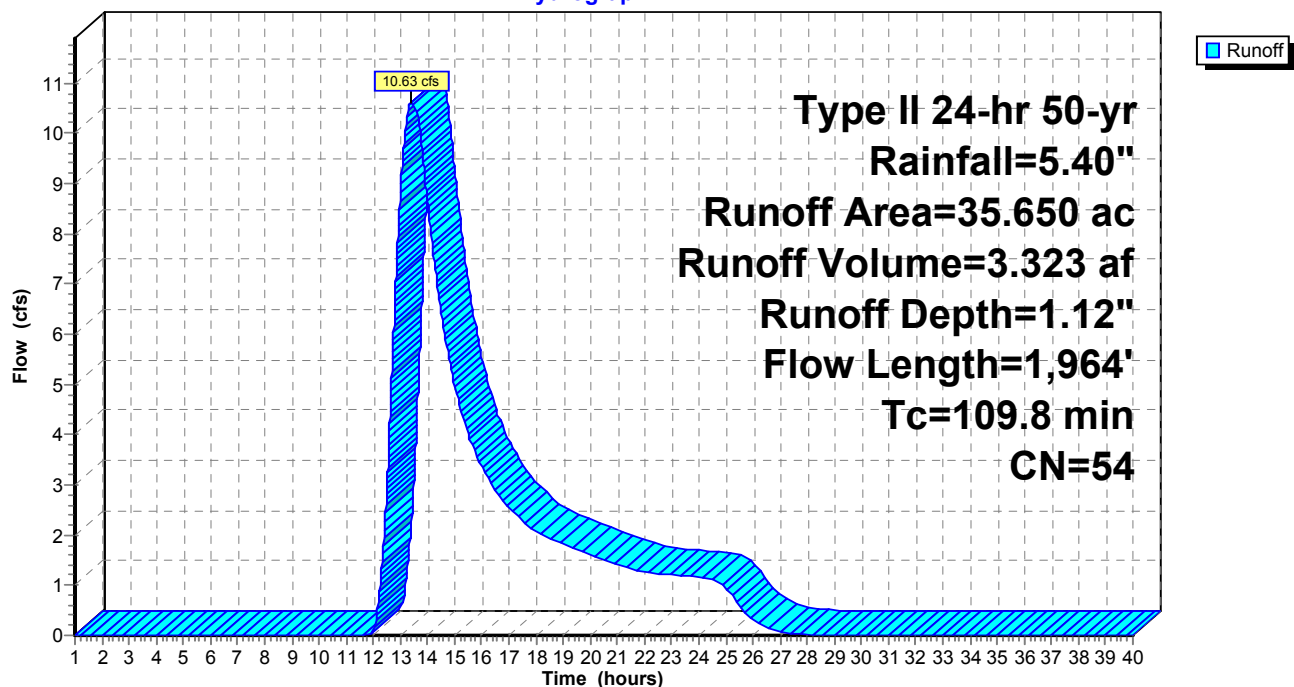
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
35.650	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
109.8	1,964	0.0100	0.3		Lag/CN Method,

Subcatchment W112: W112

Hydrograph



Subcatchment W113: W113

Runoff = 20.66 cfs @ 12.17 hrs, Volume= 1.680 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

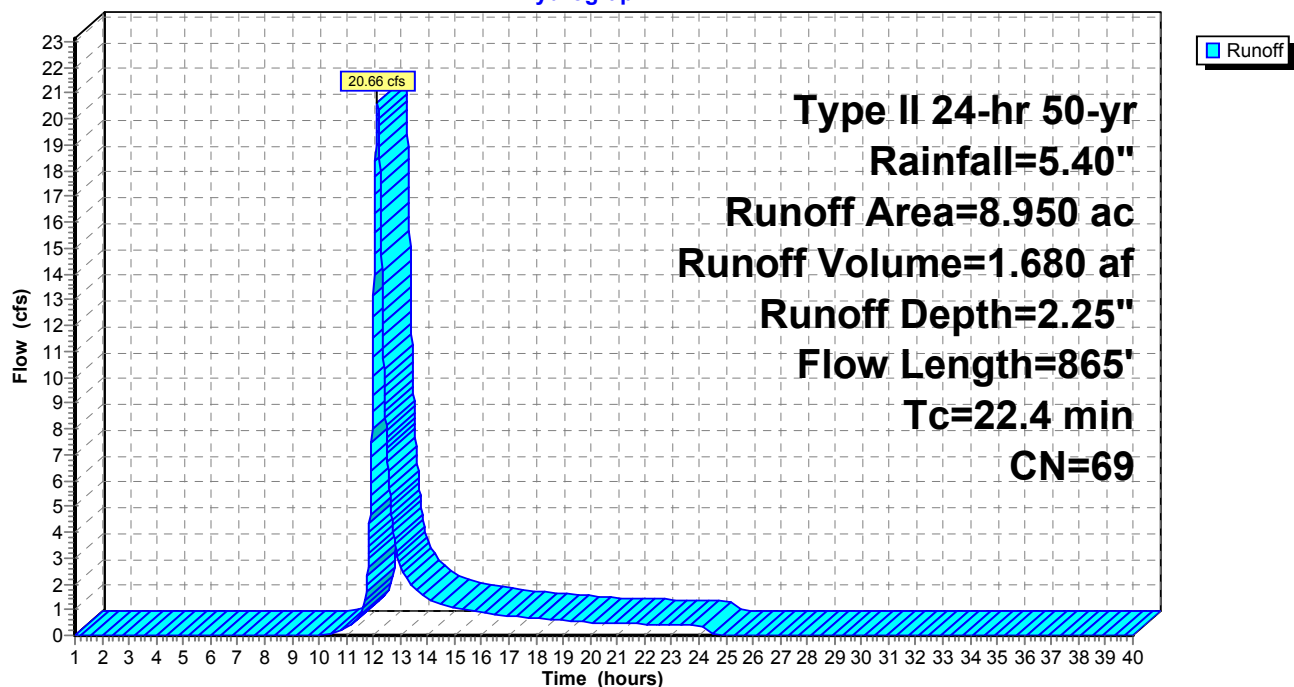
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.950	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	865	0.0300	0.6		Lag/CN Method,

Subcatchment W113: W113

Hydrograph



Subcatchment W114: W114

Runoff = 25.85 cfs @ 12.64 hrs, Volume= 4.628 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

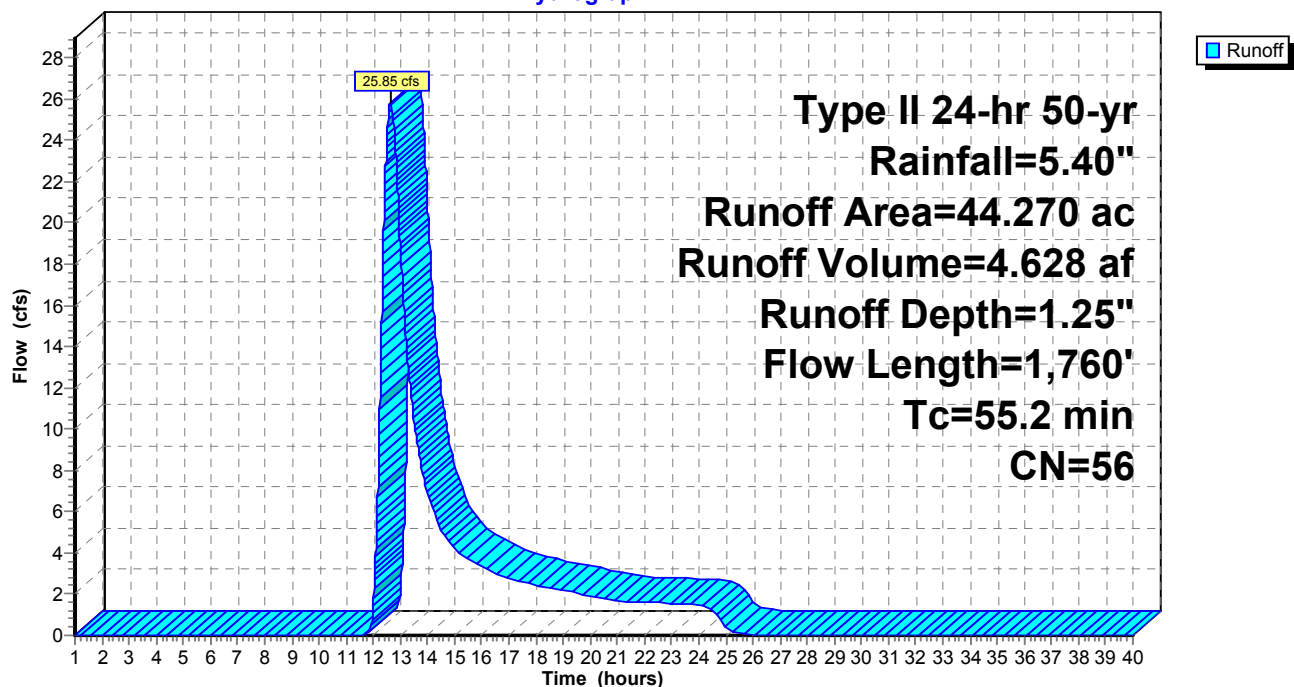
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
44.270	56	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.2	1,760	0.0300	0.5		Lag/CN Method,

Subcatchment W114: W114

Hydrograph



Subcatchment W115: W115

Runoff = 9.53 cfs @ 12.59 hrs, Volume= 1.632 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

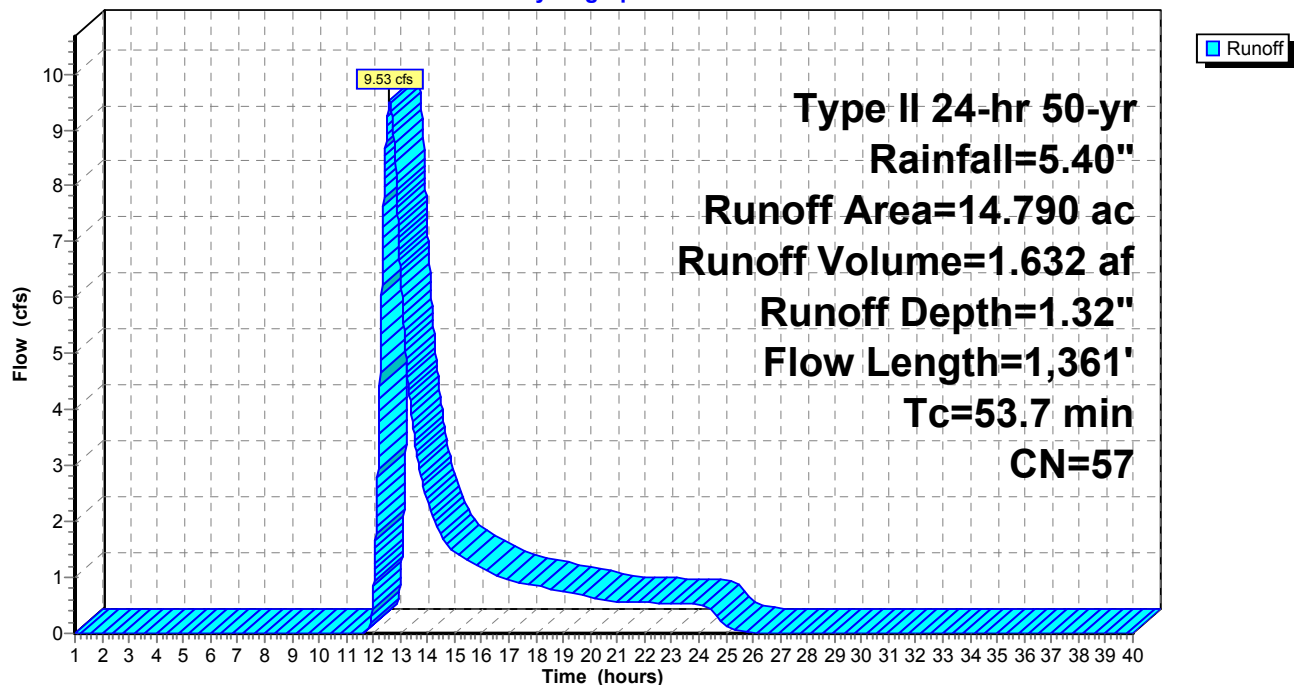
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
14.790	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	1,361	0.0200	0.4		Lag/CN Method,

Subcatchment W115: W115

Hydrograph



Subcatchment W116: W116

Runoff = 20.23 cfs @ 12.00 hrs, Volume= 1.027 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

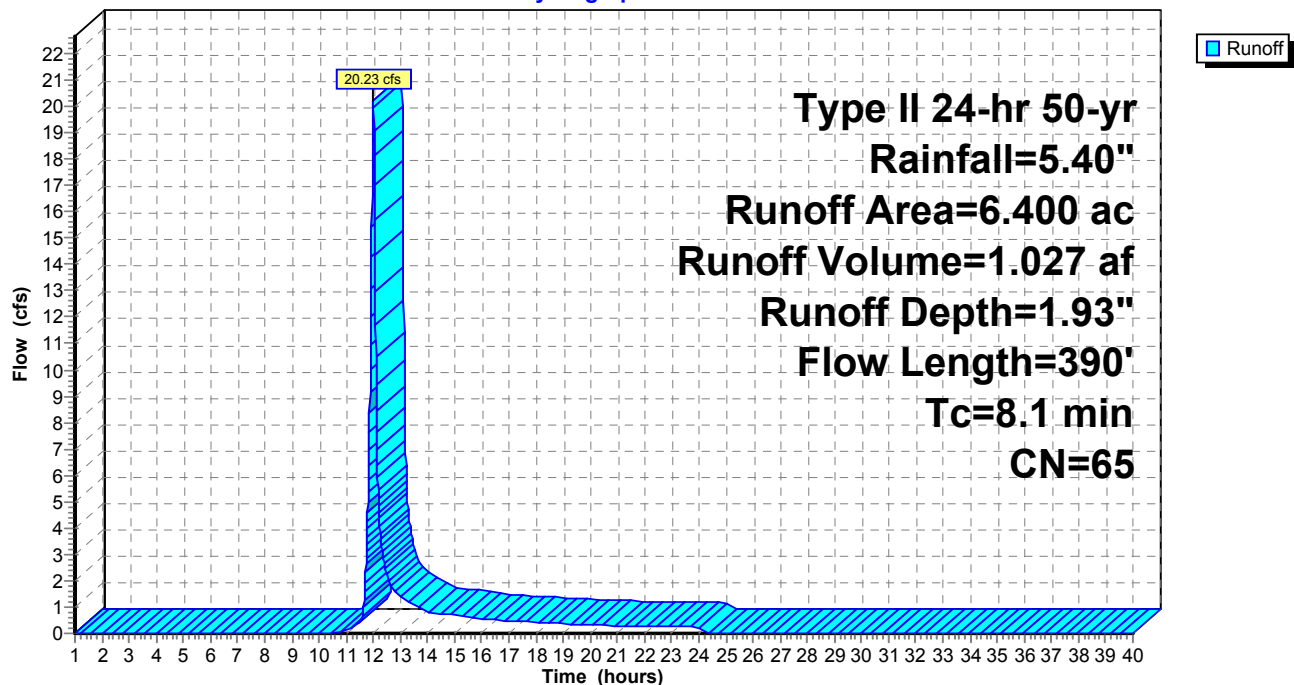
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
6.400	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	390	0.0800	0.8		Lag/CN Method,

Subcatchment W116: W116

Hydrograph



Subcatchment W117: W117

Runoff = 0.54 cfs @ 12.34 hrs, Volume= 0.144 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

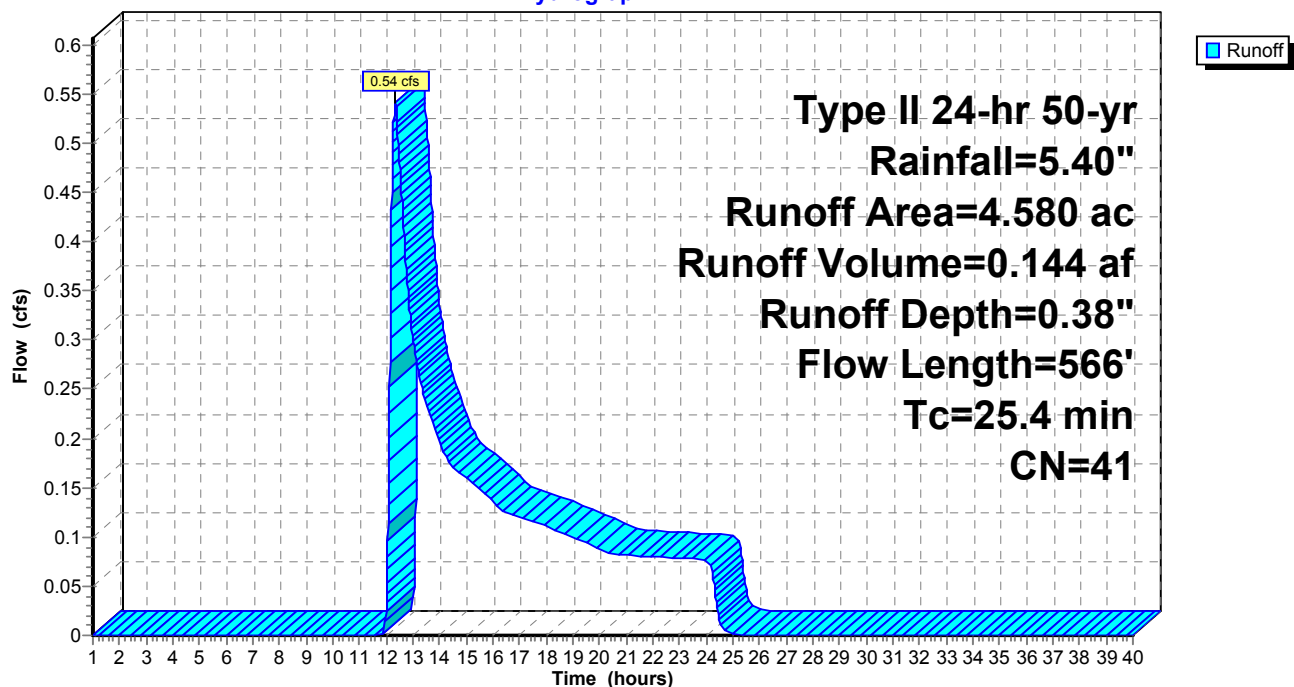
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.580	41	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	566	0.0500	0.4		Lag/CN Method,

Subcatchment W117: W117

Hydrograph



Subcatchment W118: W118

Runoff = 10.51 cfs @ 12.58 hrs, Volume= 2.055 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

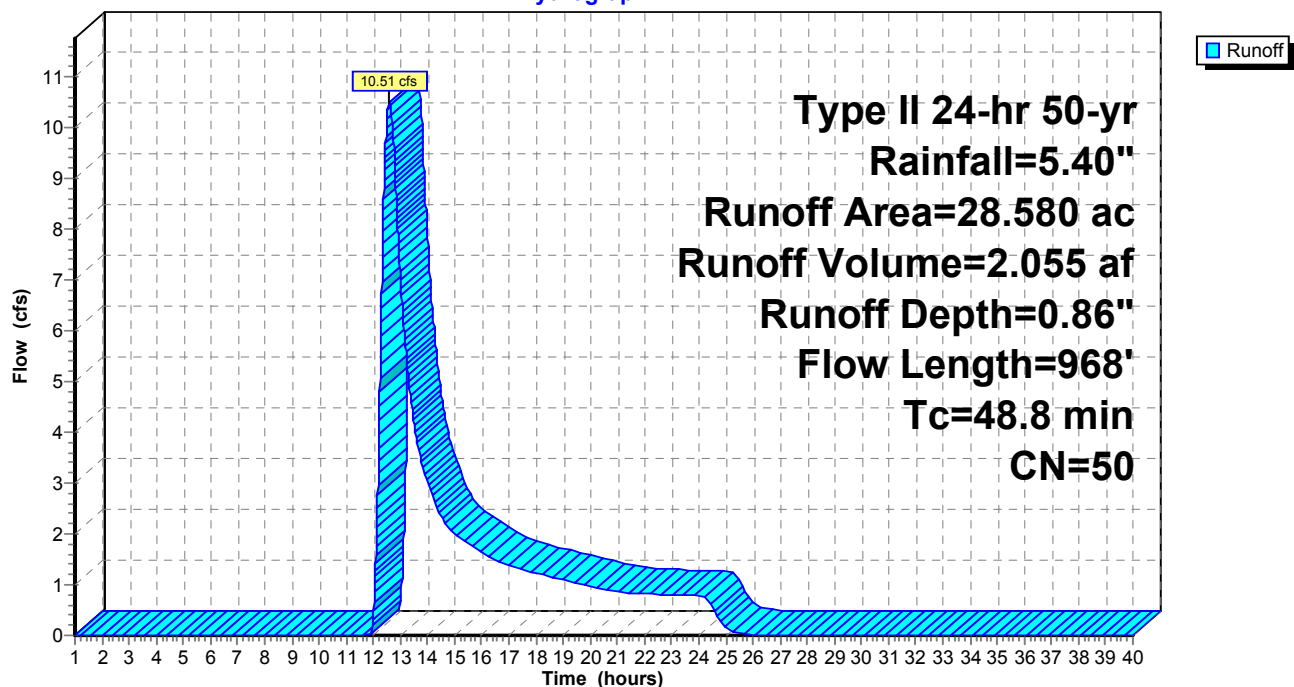
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
28.580	50	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.8	968	0.0200	0.3		Lag/CN Method,

Subcatchment W118: W118

Hydrograph



Subcatchment W119: W119

Runoff = 5.53 cfs @ 12.13 hrs, Volume= 0.541 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

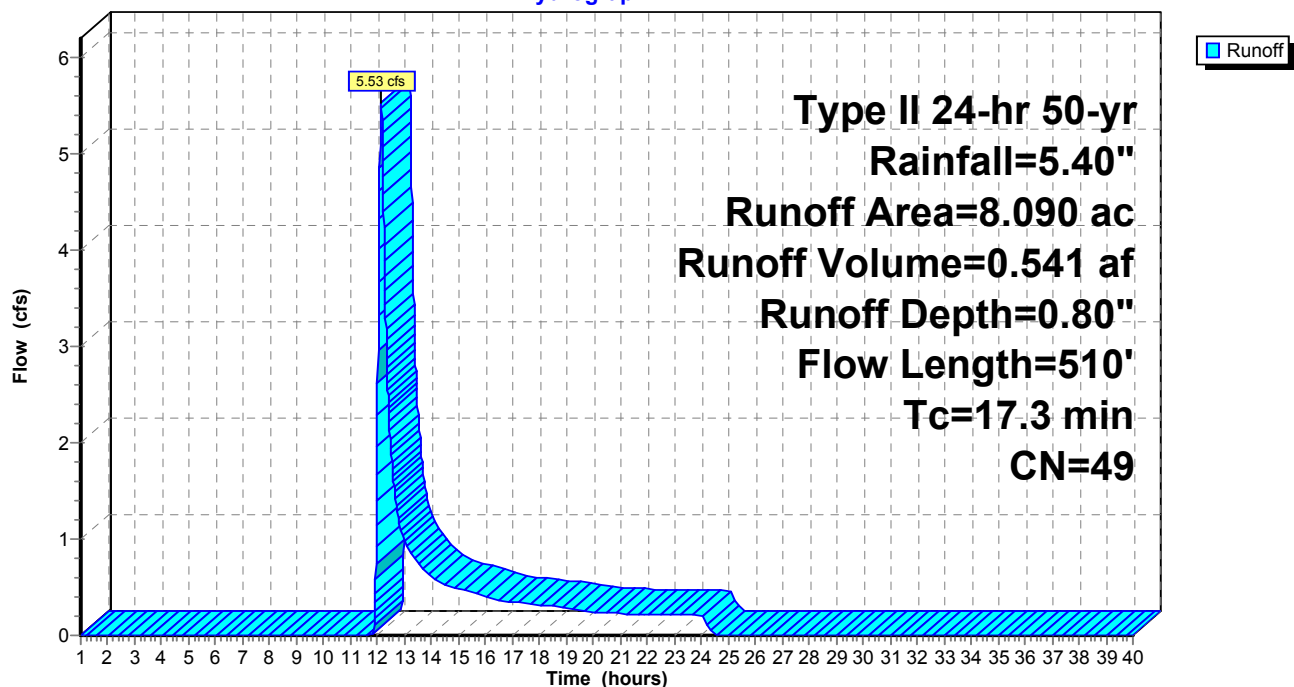
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.090	49	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	510	0.0600	0.5		Lag/CN Method,

Subcatchment W119: W119

Hydrograph



Subcatchment W12: W12

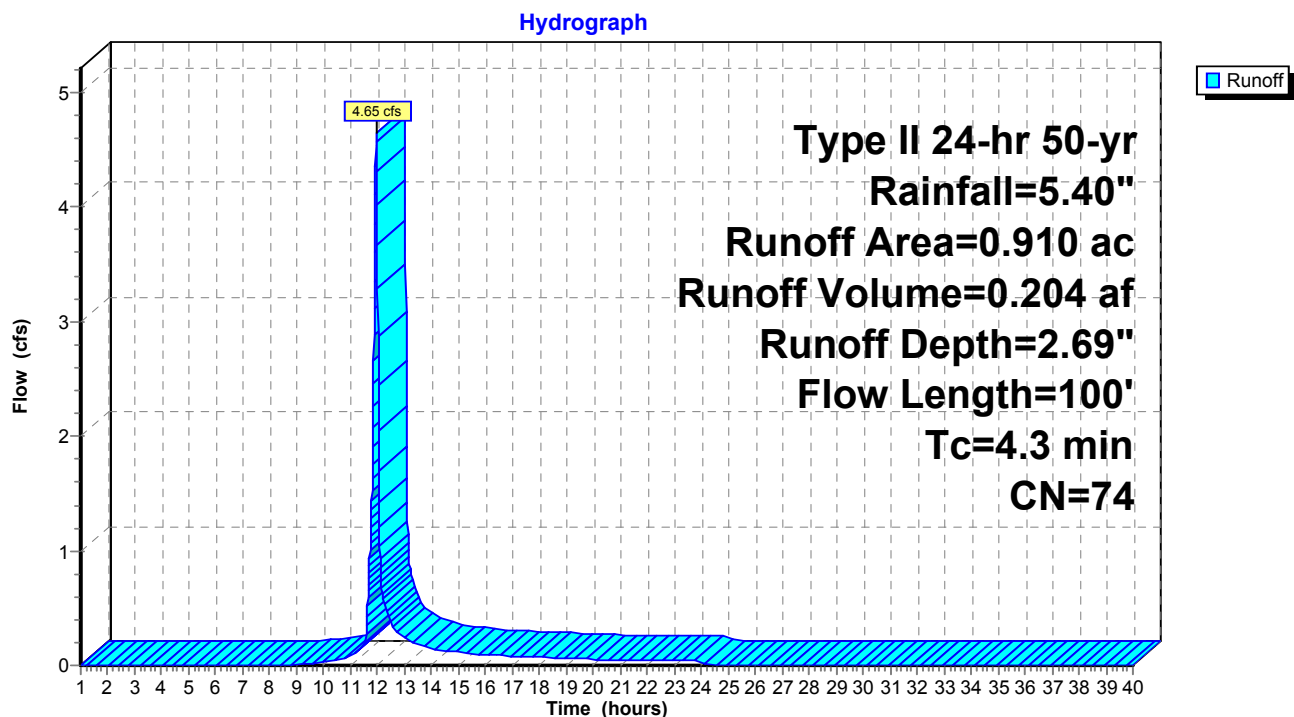
Runoff = 4.65 cfs @ 11.95 hrs, Volume= 0.204 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
0.910	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.0200	0.4		Lag/CN Method,

Subcatchment W12: W12

Subcatchment W120: W120

Runoff = 2.56 cfs @ 12.92 hrs, Volume= 0.814 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

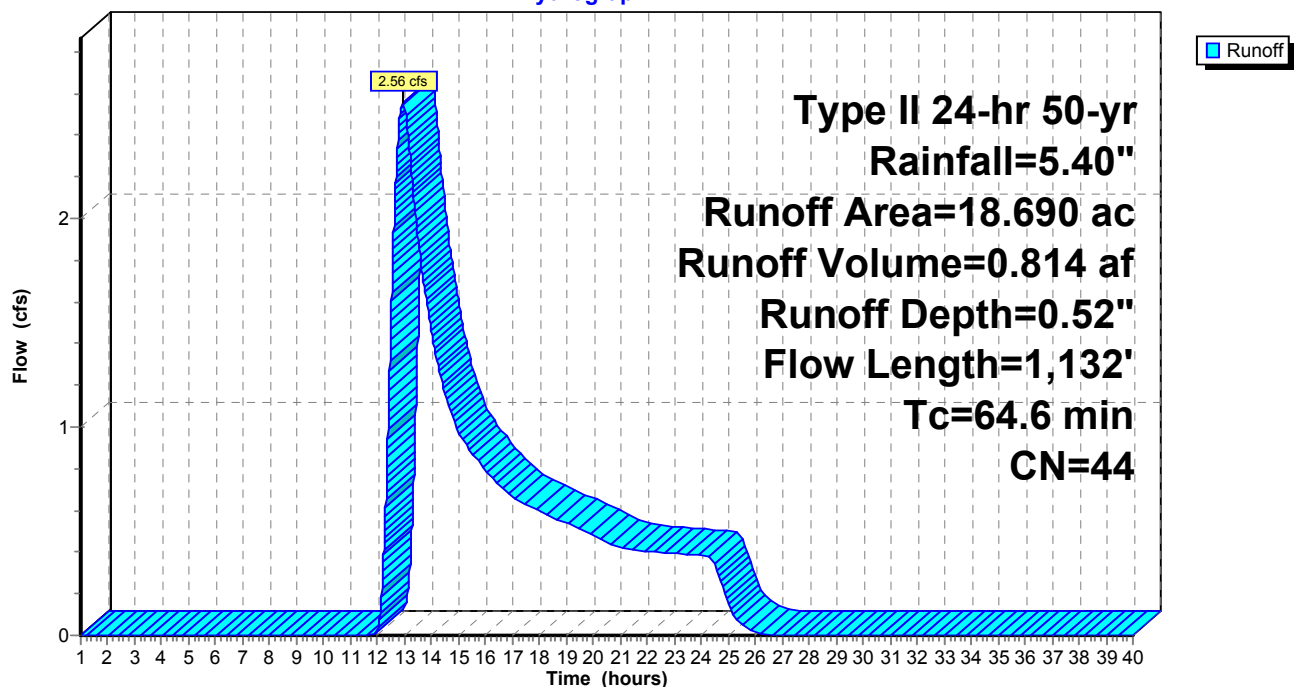
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.690	44	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.6	1,132	0.0200	0.3		Lag/CN Method,

Subcatchment W120: W120

Hydrograph



Subcatchment W121: W121

Runoff = 26.62 cfs @ 12.01 hrs, Volume= 1.360 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

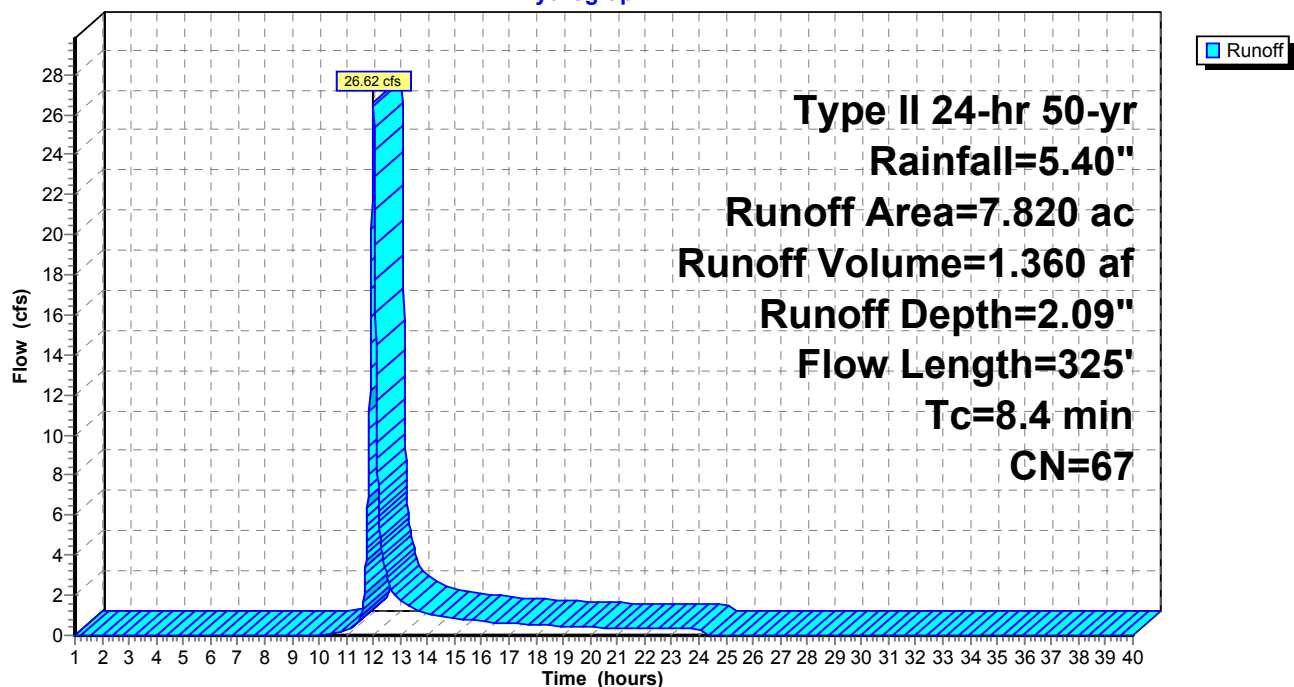
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.820	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	325	0.0500	0.6		Lag/CN Method,

Subcatchment W121: W121

Hydrograph



Subcatchment W122: W122

Runoff = 44.92 cfs @ 12.08 hrs, Volume= 3.115 af, Depth= 3.84"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

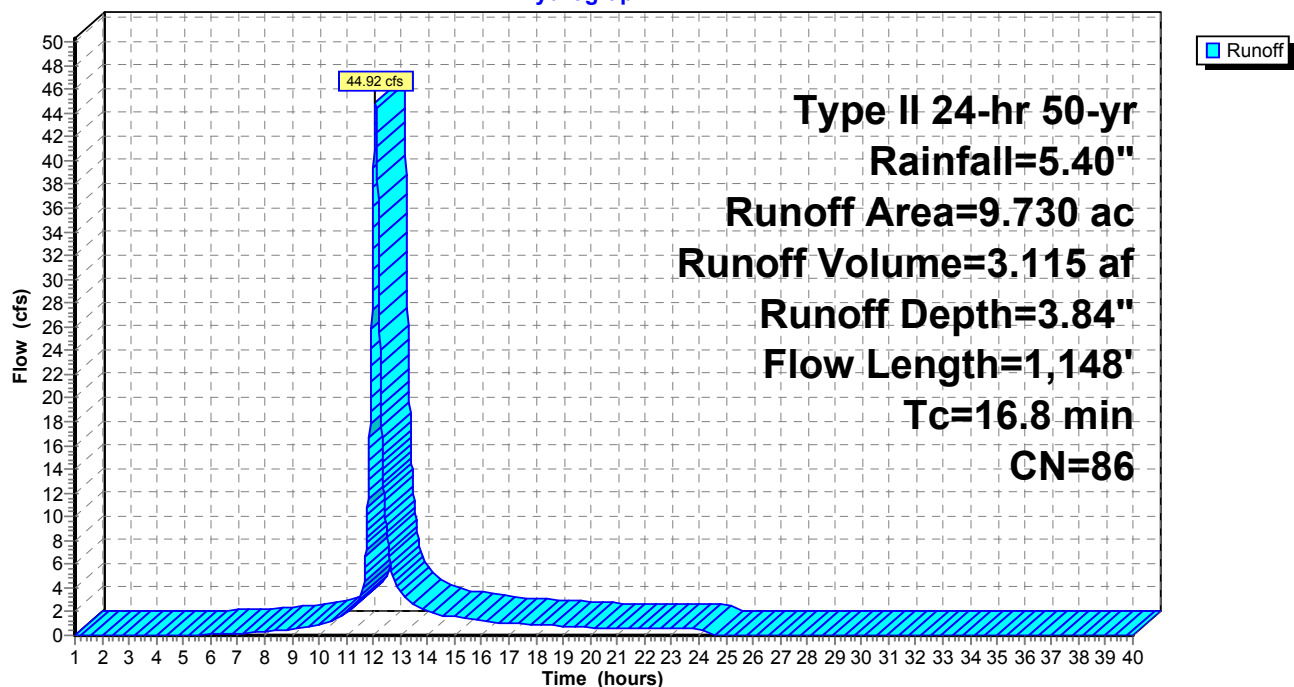
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.730	86	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,148	0.0300	1.1		Lag/CN Method,

Subcatchment W122: W122

Hydrograph



Subcatchment W123: W123

Runoff = 7.86 cfs @ 12.08 hrs, Volume= 0.526 af, Depth= 2.87"

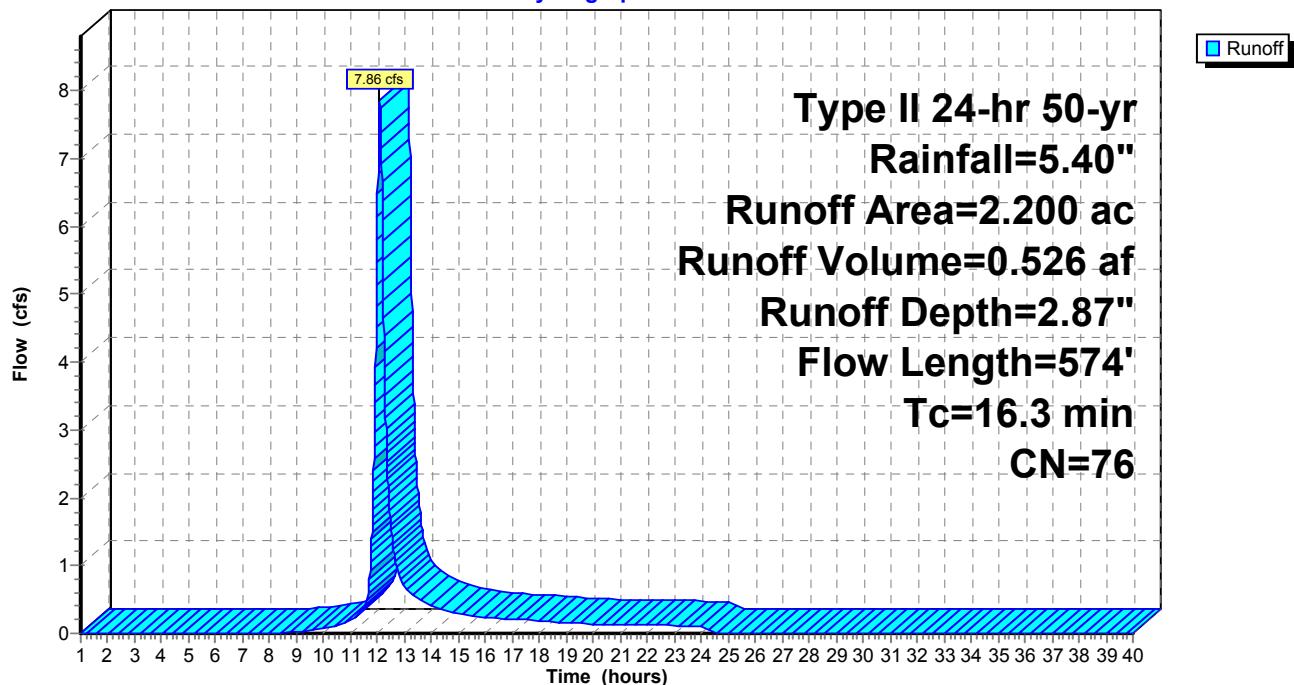
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
2.200	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	574	0.0200	0.6		Lag/CN Method,

Subcatchment W123: W123

Hydrograph



Subcatchment W124: W124

Runoff = 2.23 cfs @ 12.06 hrs, Volume= 0.139 af, Depth= 2.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

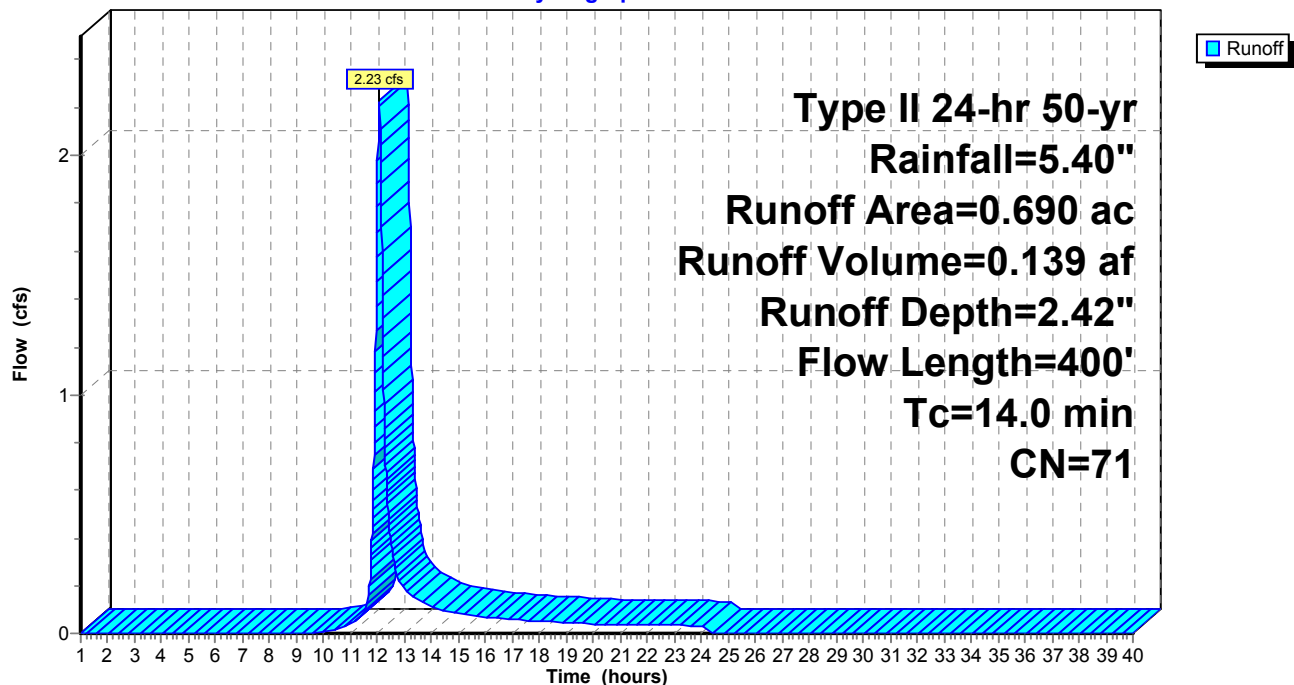
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
0.690	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	400	0.0200	0.5		Lag/CN Method,

Subcatchment W124: W124

Hydrograph



Subcatchment W125: W125

Runoff = 17.21 cfs @ 12.47 hrs, Volume= 2.364 af, Depth= 2.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

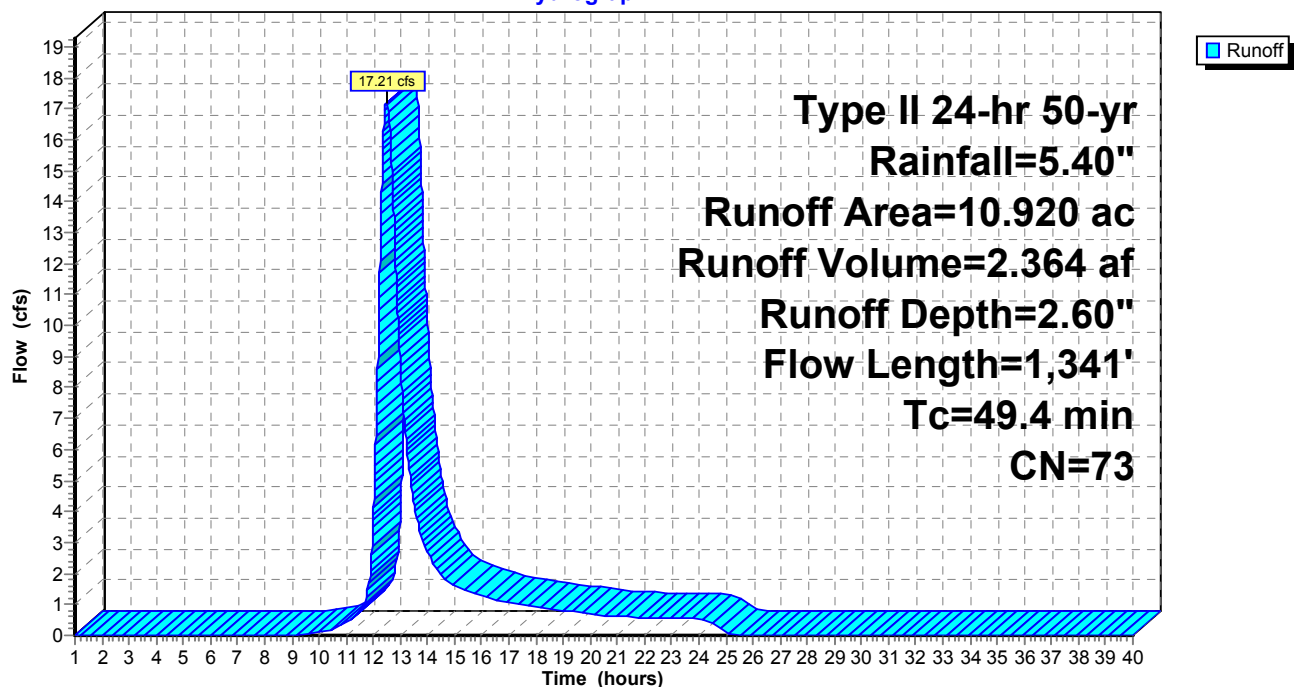
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
10.920	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.4	1,341	0.0100	0.5		Lag/CN Method,

Subcatchment W125: W125

Hydrograph



Subcatchment W126: W126

Runoff = 86.33 cfs @ 12.05 hrs, Volume= 5.548 af, Depth= 4.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

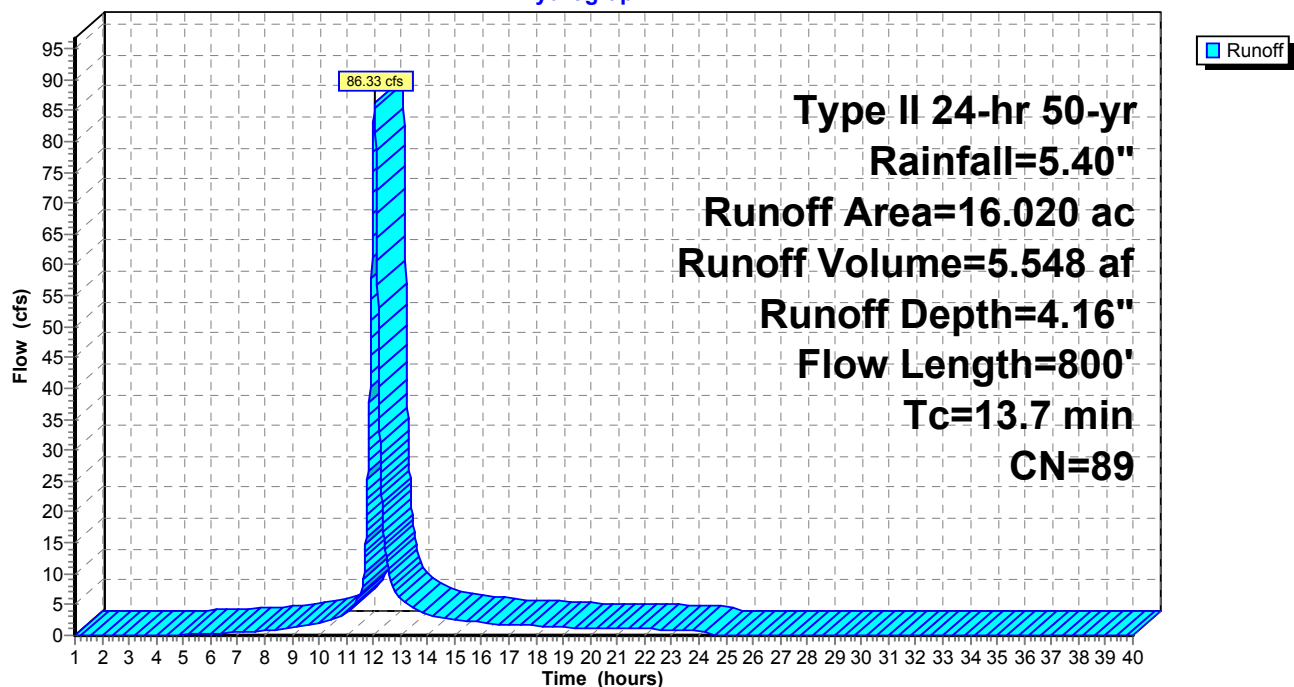
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
16.020	89	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	800	0.0200	1.0		Lag/CN Method,

Subcatchment W126: W126

Hydrograph



Subcatchment W128: W128

Runoff = 19.22 cfs @ 12.07 hrs, Volume= 1.222 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

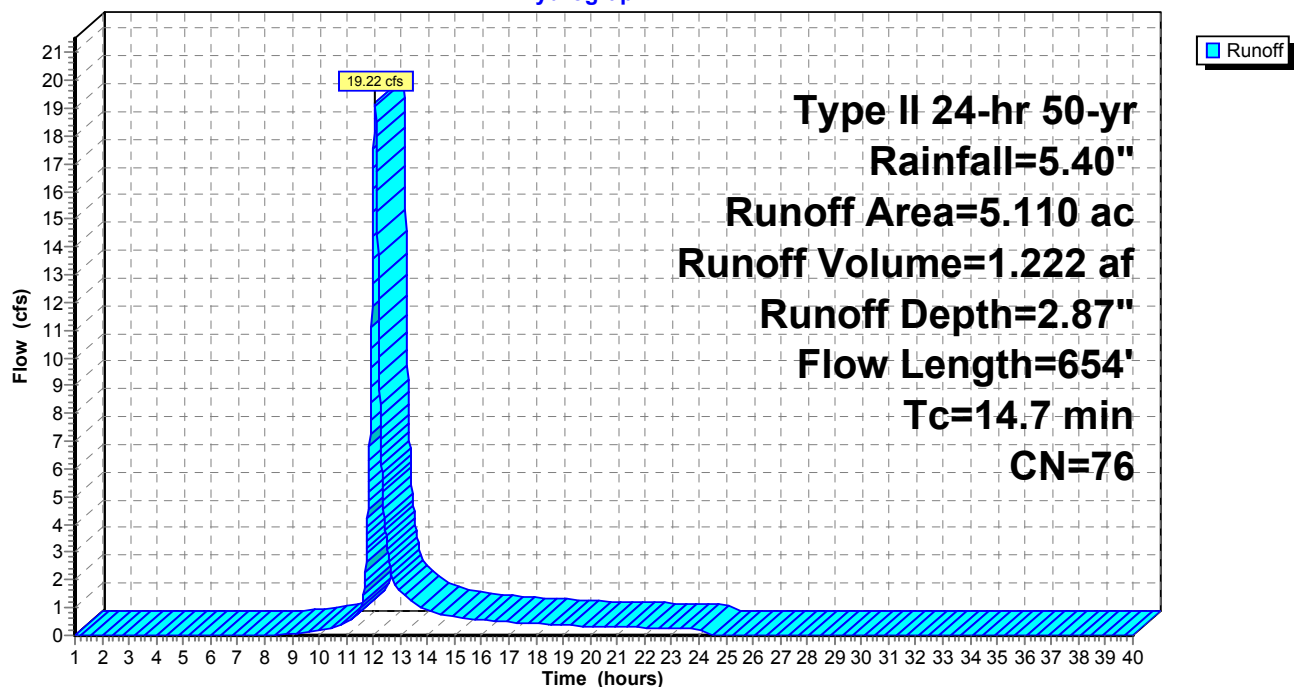
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.110	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	654	0.0300	0.7		Lag/CN Method,

Subcatchment W128: W128

Hydrograph



Subcatchment W129: W129

Runoff = 70.24 cfs @ 12.12 hrs, Volume= 5.207 af, Depth= 3.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

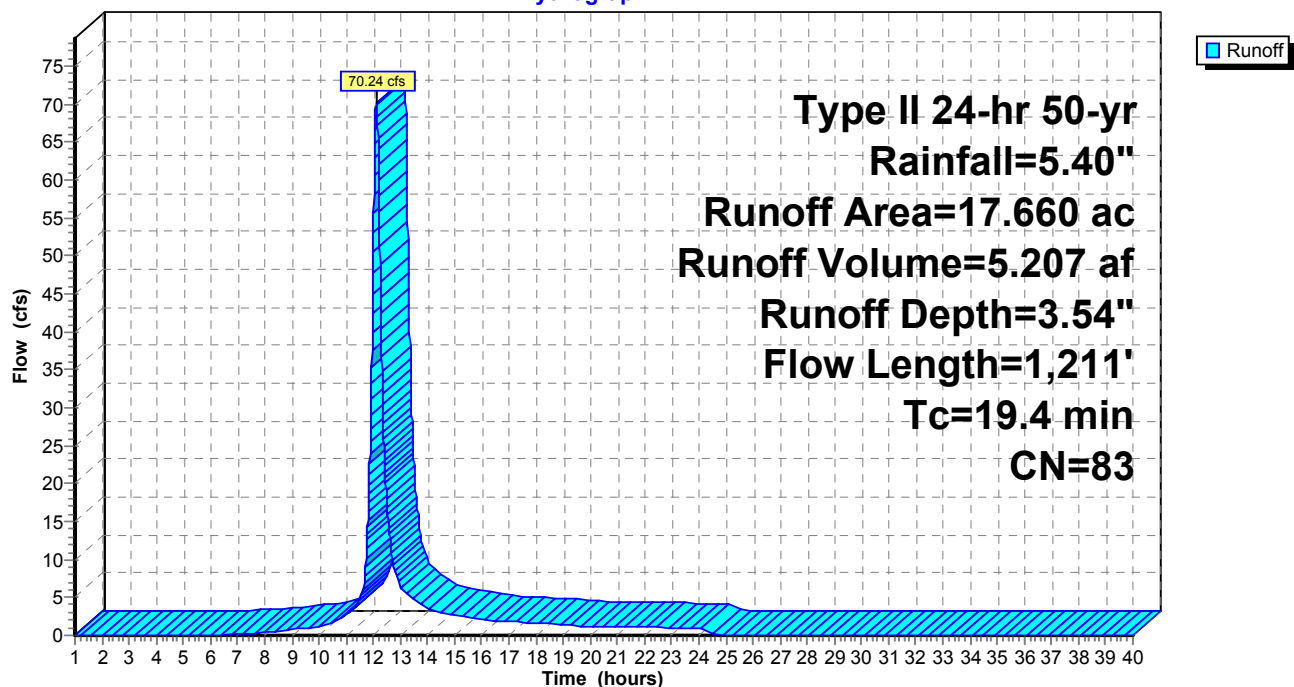
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
17.660	83	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.4	1,211	0.0300	1.0		Lag/CN Method,

Subcatchment W129: W129

Hydrograph



Subcatchment W13: W13

Runoff = 2.74 cfs @ 11.91 hrs, Volume= 0.107 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

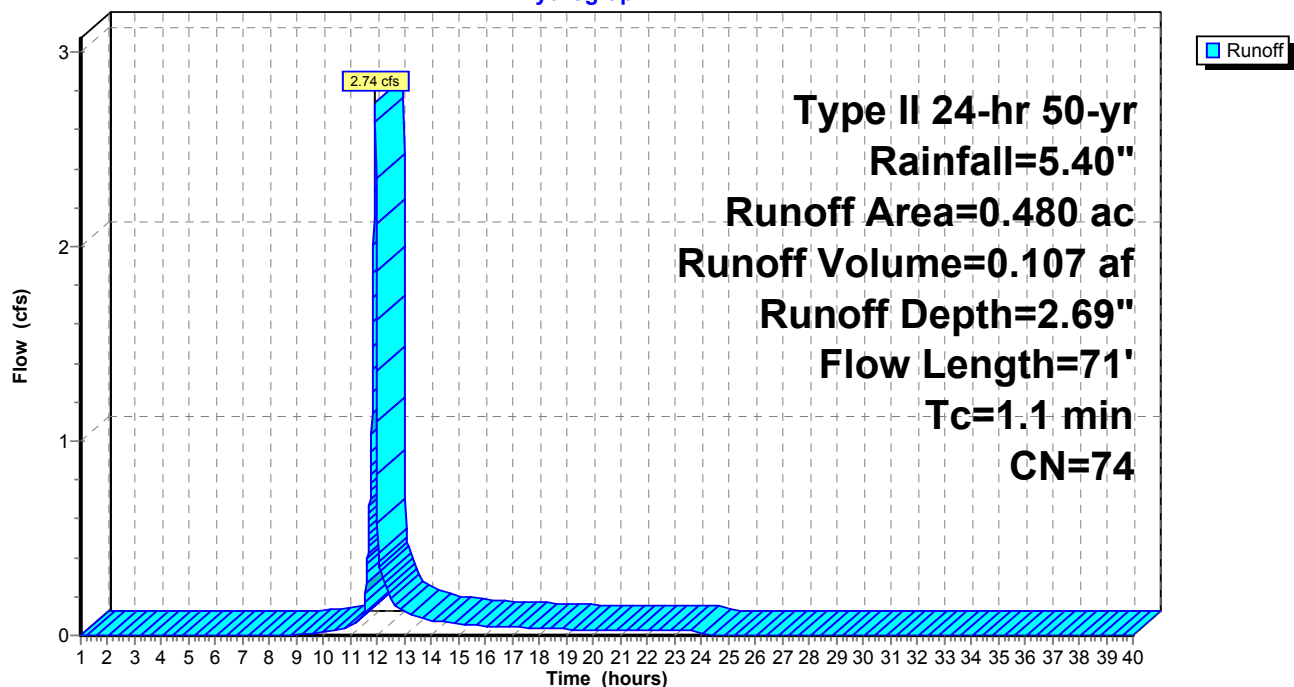
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
0.480	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	71	0.1700	1.1		Lag/CN Method,

Subcatchment W13: W13

Hydrograph



Subcatchment W134: W134

Runoff = 40.00 cfs @ 12.02 hrs, Volume= 2.288 af, Depth= 3.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

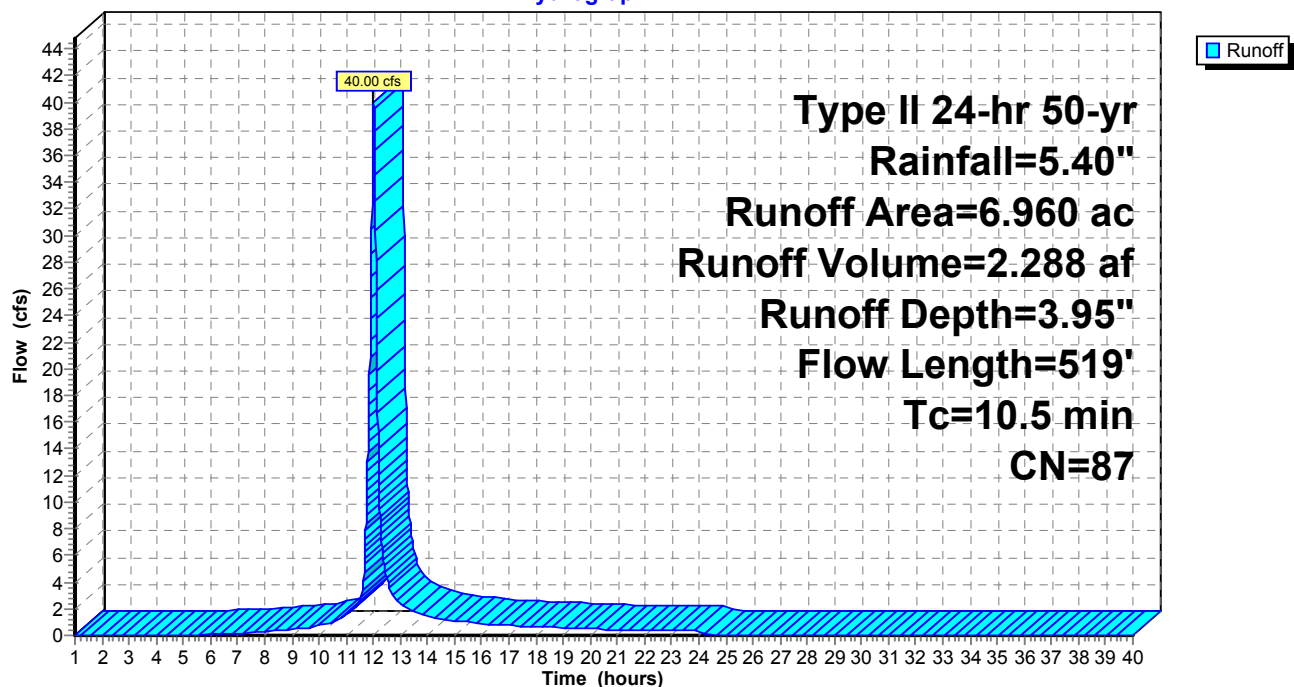
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
6.960	87	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	519	0.0200	0.8		Lag/CN Method,

Subcatchment W134: W134

Hydrograph



Subcatchment W135: W135

Runoff = 42.22 cfs @ 12.44 hrs, Volume= 5.305 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

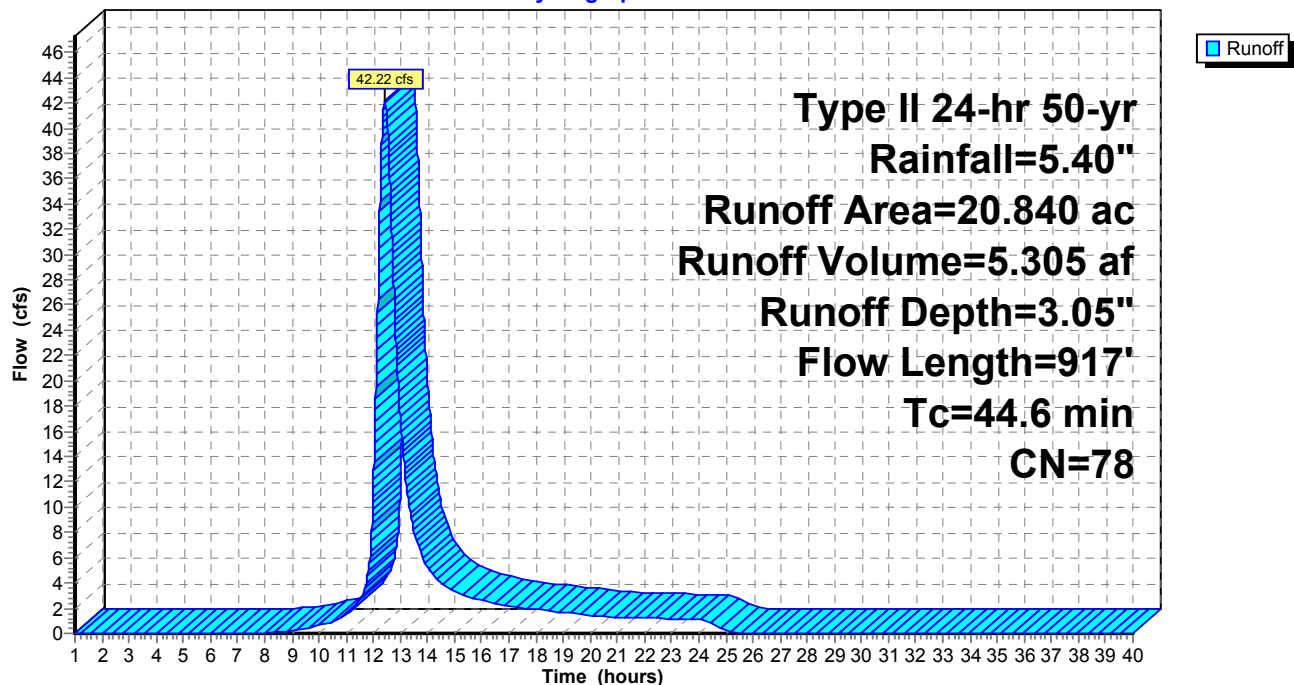
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
20.840	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.6	917	0.0050	0.3		Lag/CN Method,

Subcatchment W135: W135

Hydrograph



Subcatchment w136: w136

Runoff = 10.85 cfs @ 12.00 hrs, Volume= 0.563 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

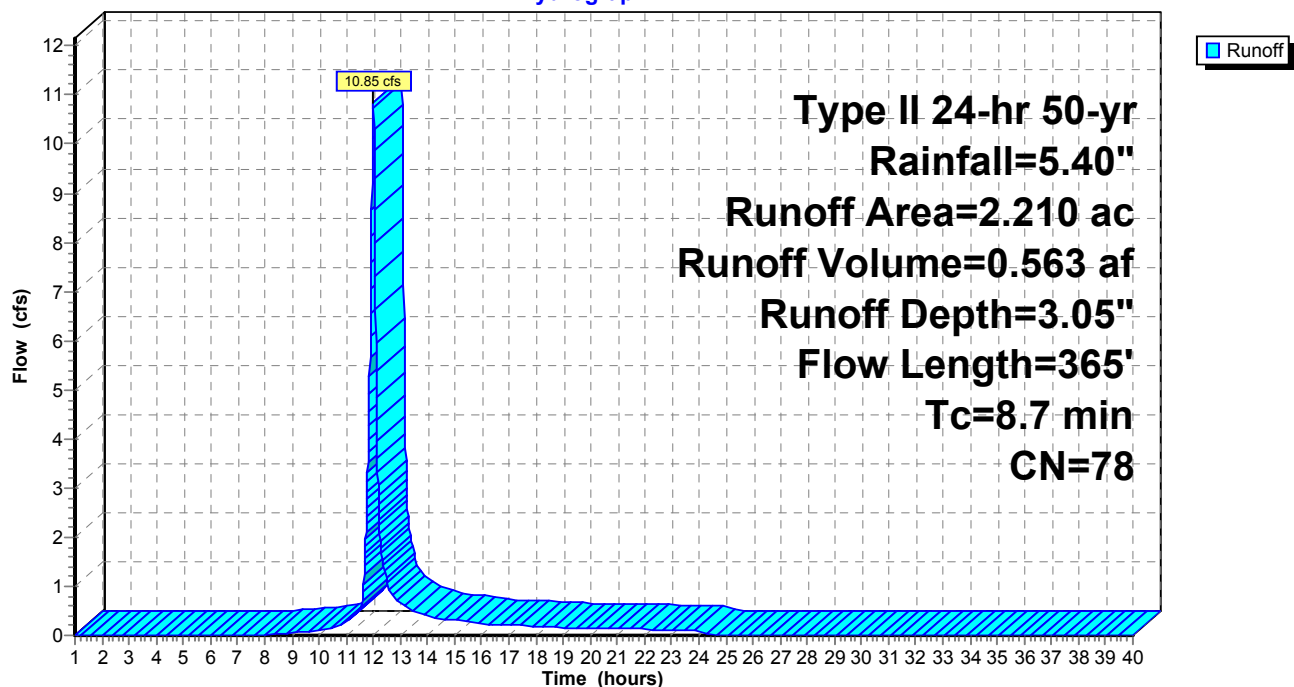
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
2.210	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	365	0.0300	0.7		Lag/CN Method,

Subcatchment w136: w136

Hydrograph



Subcatchment W137: W137

Runoff = 30.25 cfs @ 12.17 hrs, Volume= 2.483 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

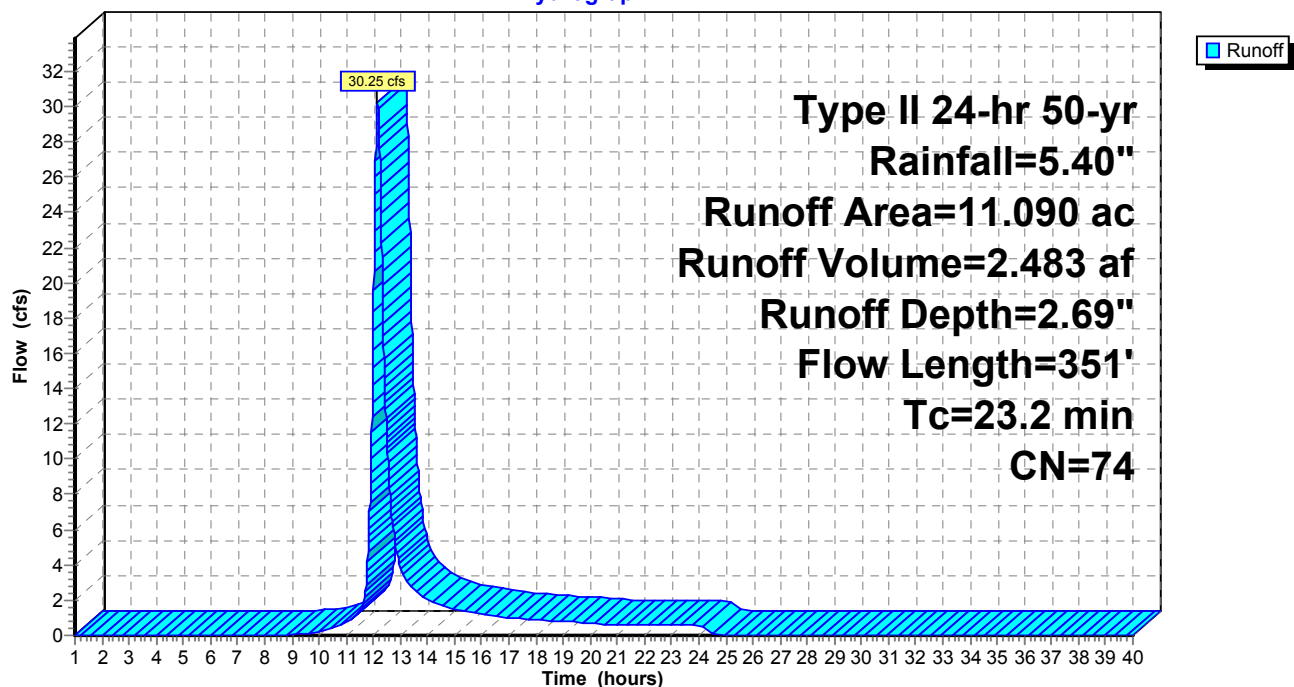
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
11.090	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	351	0.0050	0.3		Lag/CN Method,

Subcatchment W137: W137

Hydrograph



Subcatchment W138: W138

Runoff = 17.78 cfs @ 12.76 hrs, Volume= 3.215 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

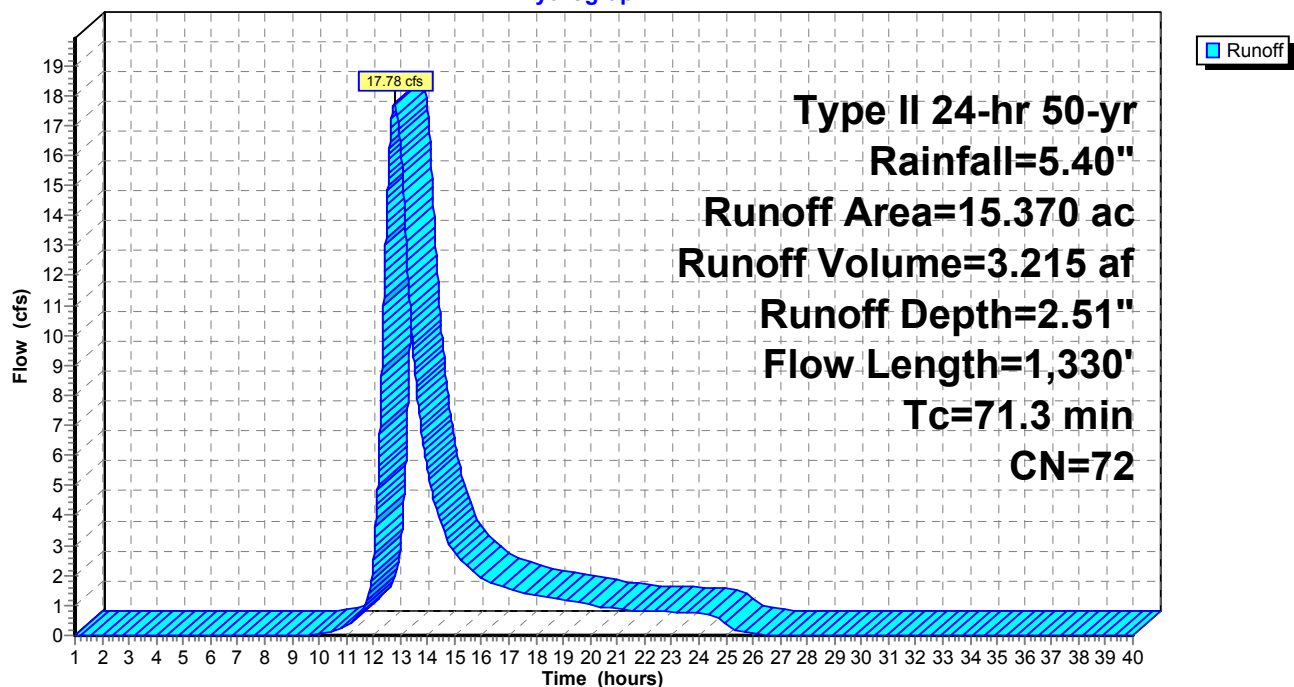
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
15.370	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.3	1,330	0.0050	0.3		Lag/CN Method,

Subcatchment W138: W138

Hydrograph



Subcatchment W139: W139

Runoff = 44.90 cfs @ 12.31 hrs, Volume= 4.934 af, Depth= 3.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

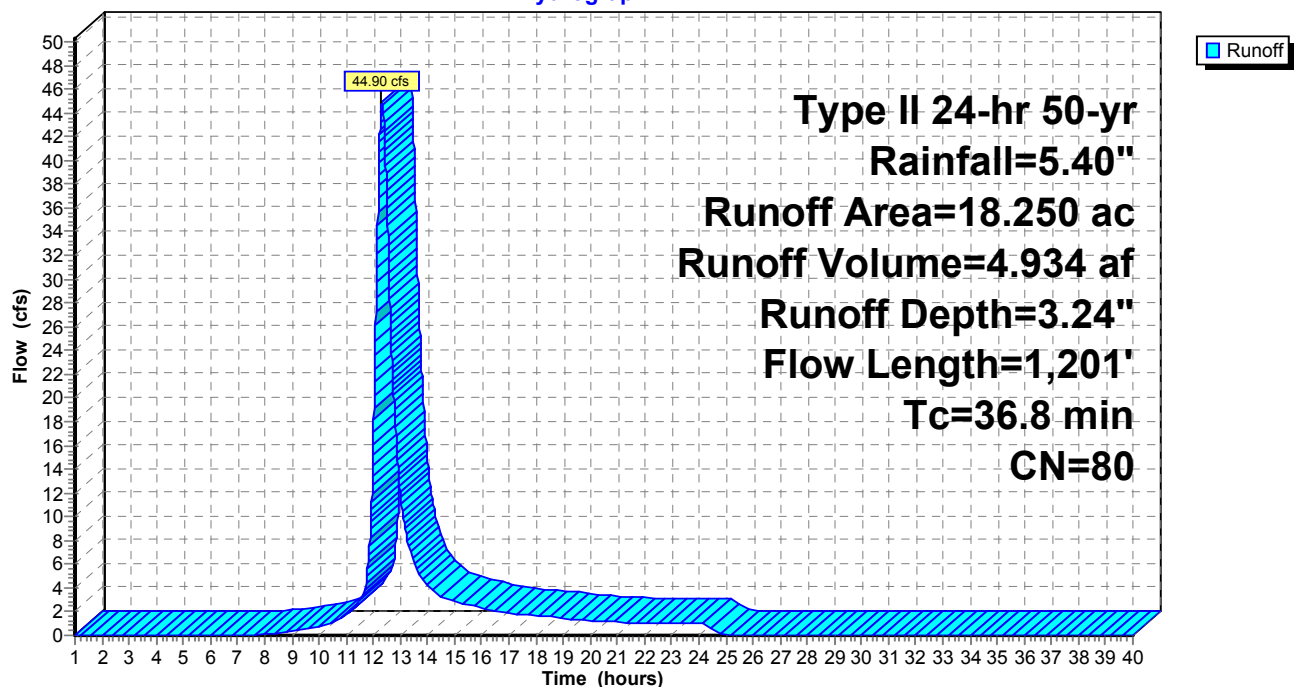
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.250	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	1,201	0.0100	0.5		Lag/CN Method,

Subcatchment W139: W139

Hydrograph



Subcatchment W14: W14

Runoff = 2.20 cfs @ 11.92 hrs, Volume= 0.087 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

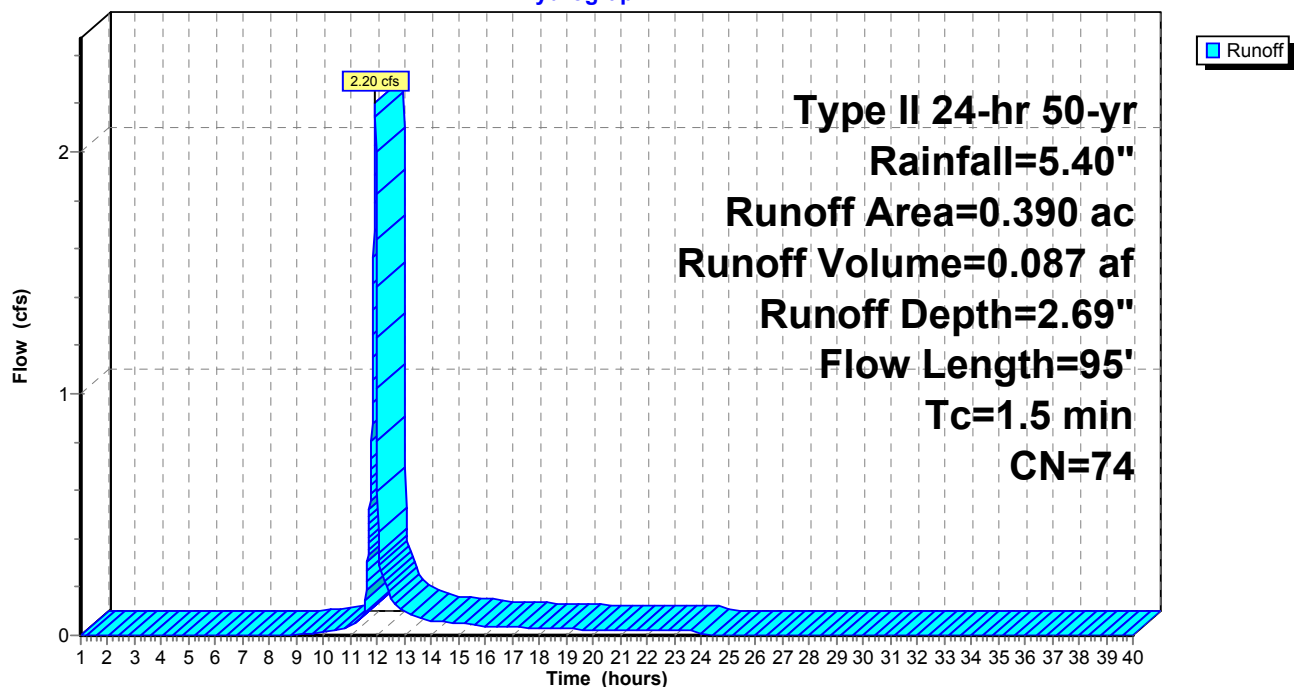
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
0.390	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	95	0.1500	1.1		Lag/CN Method,

Subcatchment W14: W14

Hydrograph



Subcatchment W140: W140

Runoff = 3.54 cfs @ 12.04 hrs, Volume= 0.222 af, Depth= 1.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

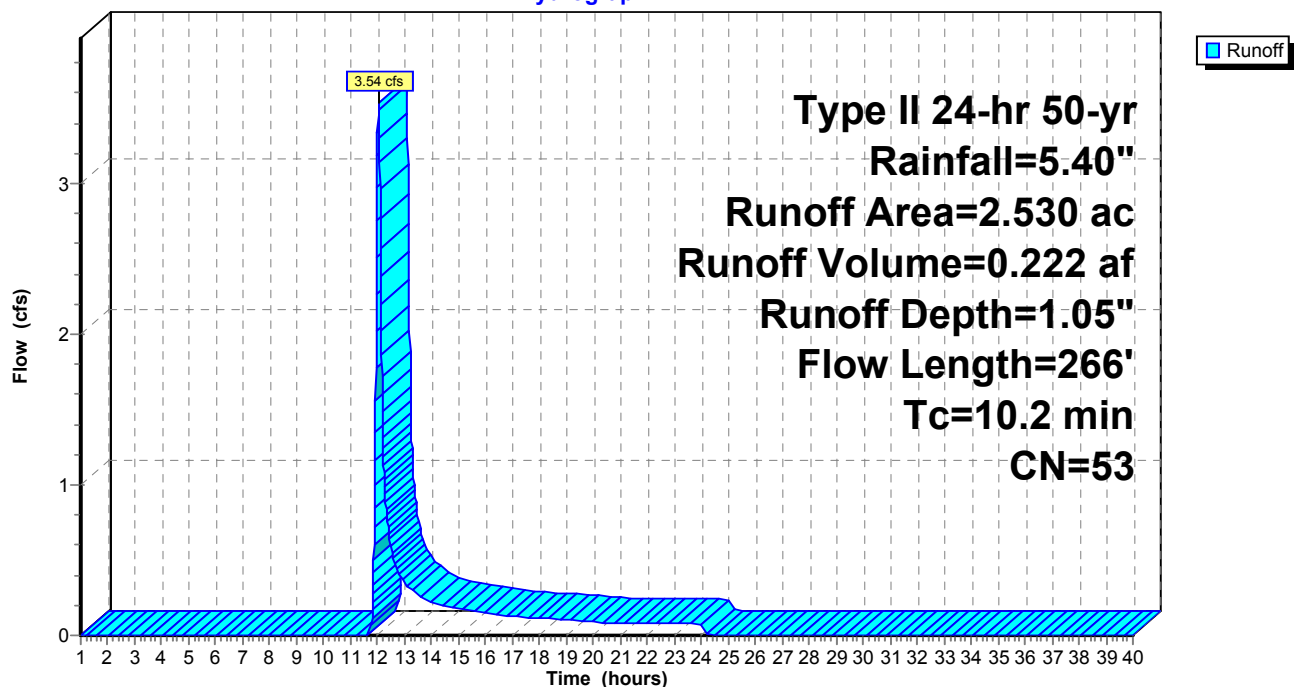
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
2.530	53	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	266	0.0500	0.4		Lag/CN Method,

Subcatchment W140: W140

Hydrograph



Subcatchment W141: W141

Runoff = 73.48 cfs @ 12.09 hrs, Volume= 4.932 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

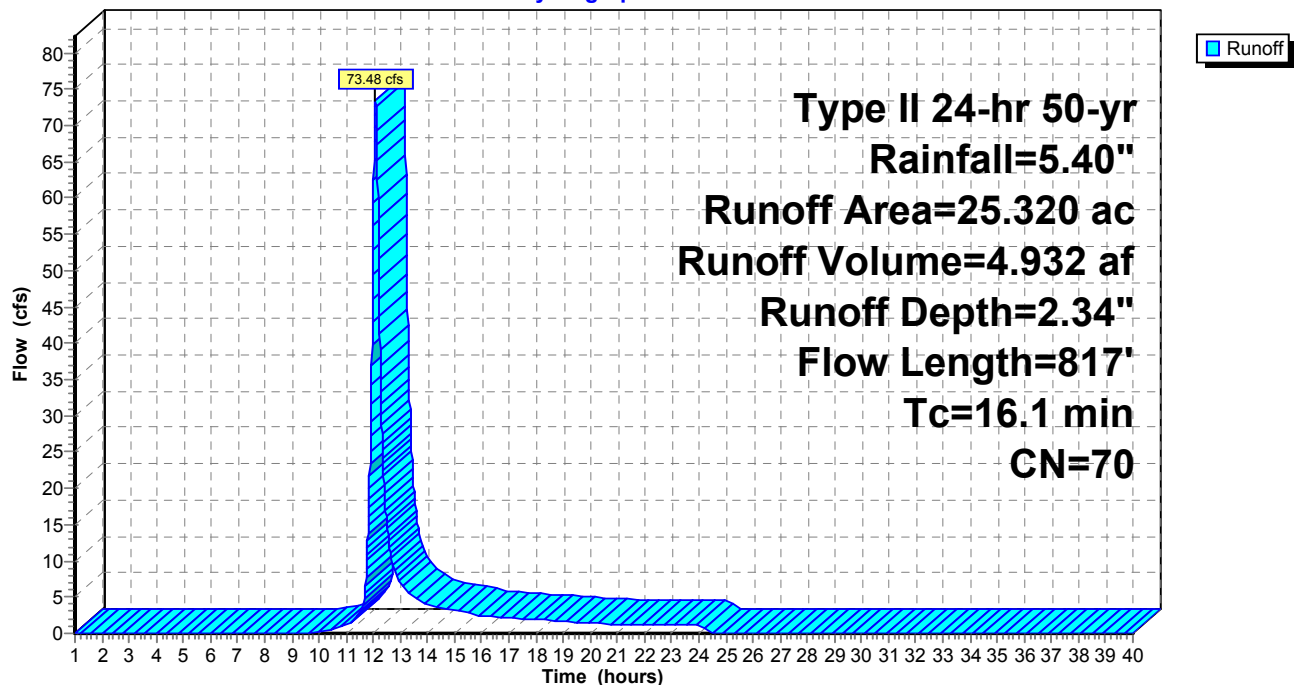
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
25.320	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	817	0.0500	0.8		Lag/CN Method,

Subcatchment W141: W141

Hydrograph



Subcatchment W142: W142

Runoff = 35.27 cfs @ 12.09 hrs, Volume= 2.396 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

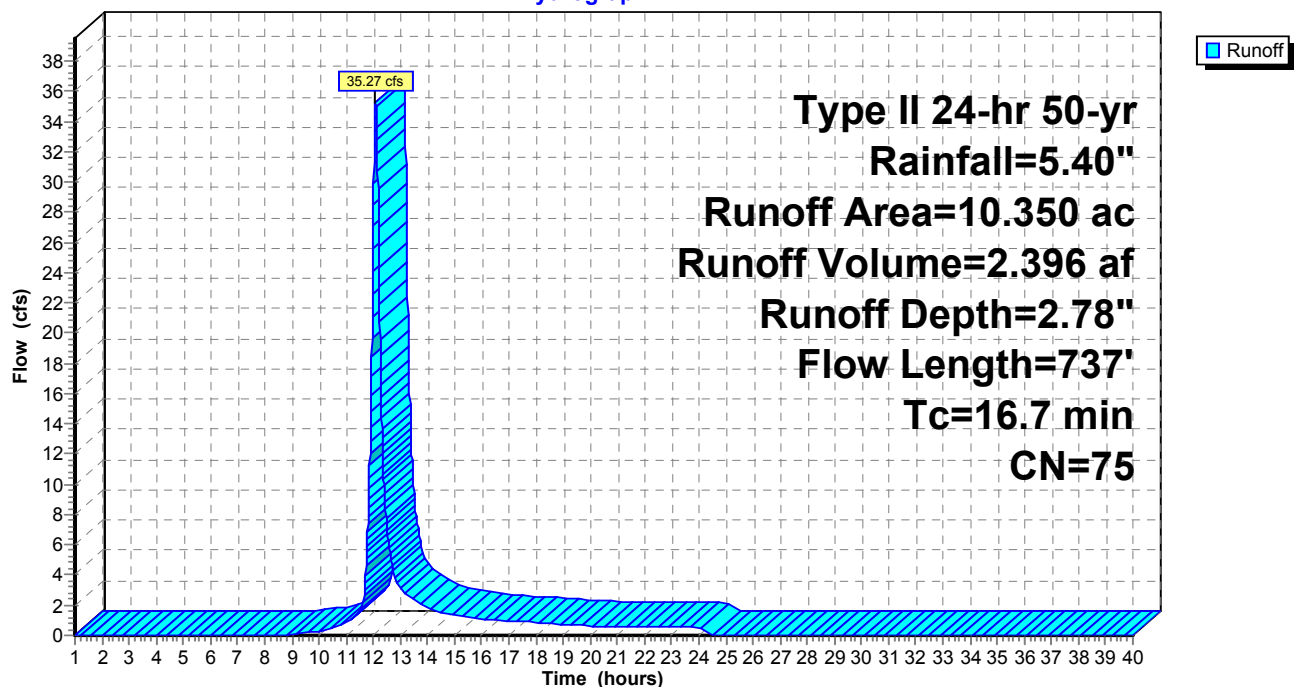
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
10.350	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	737	0.0300	0.7		Lag/CN Method,

Subcatchment W142: W142

Hydrograph



Subcatchment W143: W143

Runoff = 18.27 cfs @ 12.08 hrs, Volume= 1.218 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

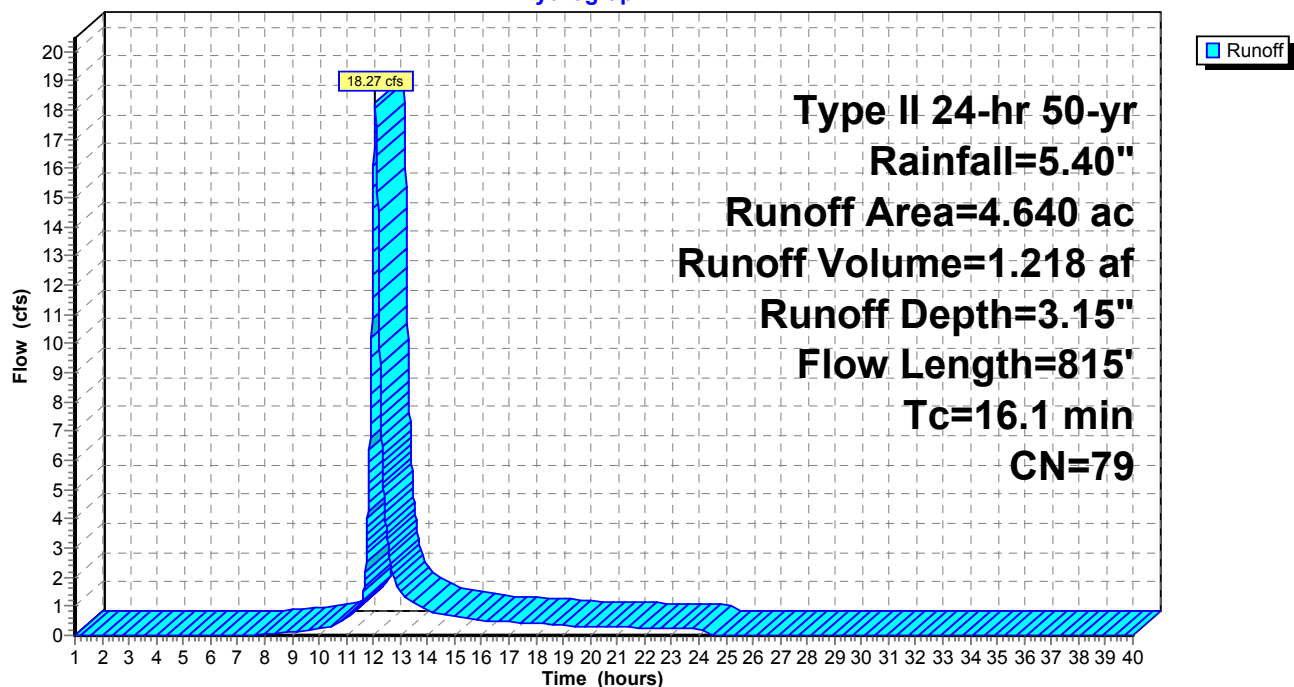
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.640	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	815	0.0300	0.8		Lag/CN Method,

Subcatchment W143: W143

Hydrograph



Subcatchment W144: W144

Runoff = 15.33 cfs @ 12.08 hrs, Volume= 0.994 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

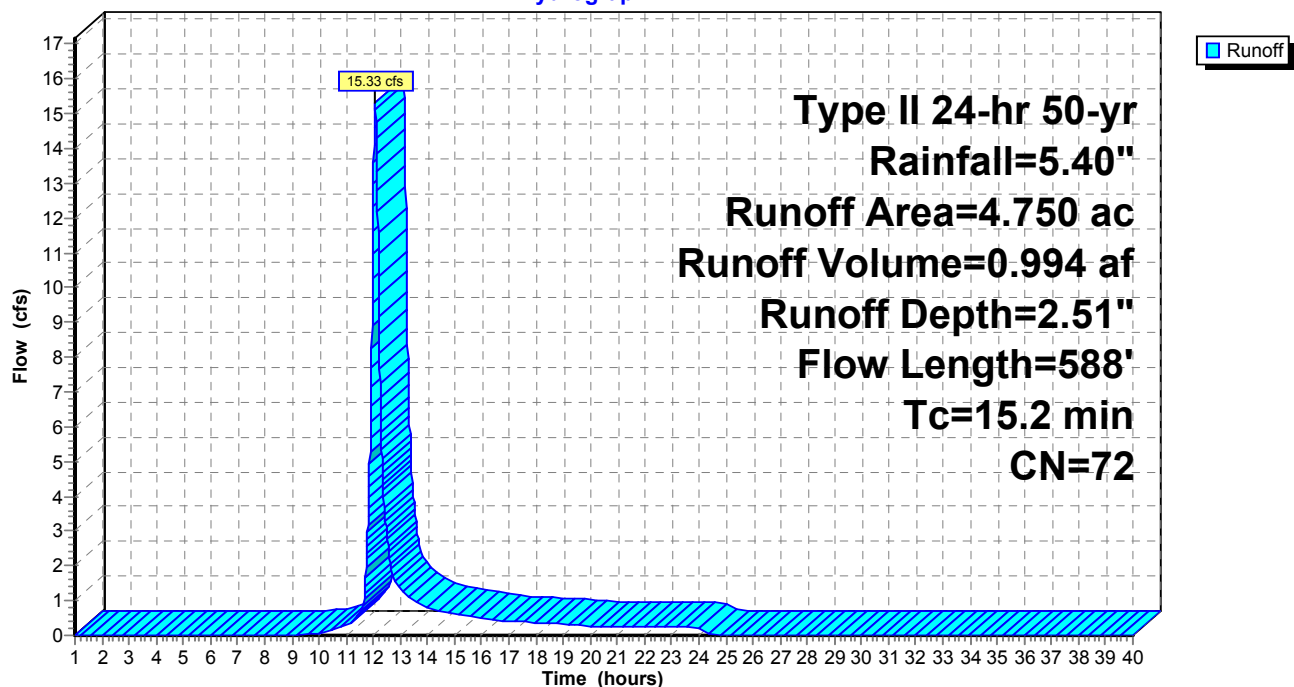
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.750	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	588	0.0300	0.6		Lag/CN Method,

Subcatchment W144: W144

Hydrograph



Subcatchment W145: W145

Runoff = 35.71 cfs @ 12.15 hrs, Volume= 2.805 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

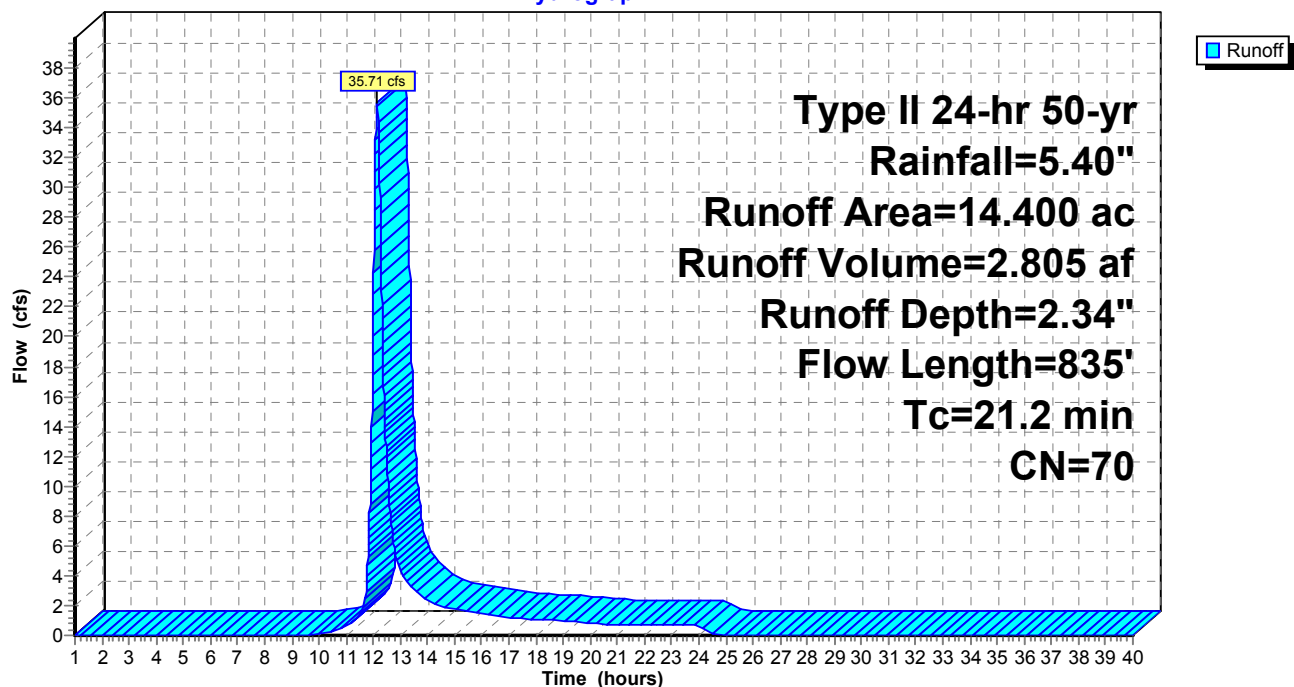
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
14.400	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	835	0.0300	0.7		Lag/CN Method,

Subcatchment W145: W145

Hydrograph



Subcatchment W146: W146

Runoff = 52.81 cfs @ 12.19 hrs, Volume= 4.497 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

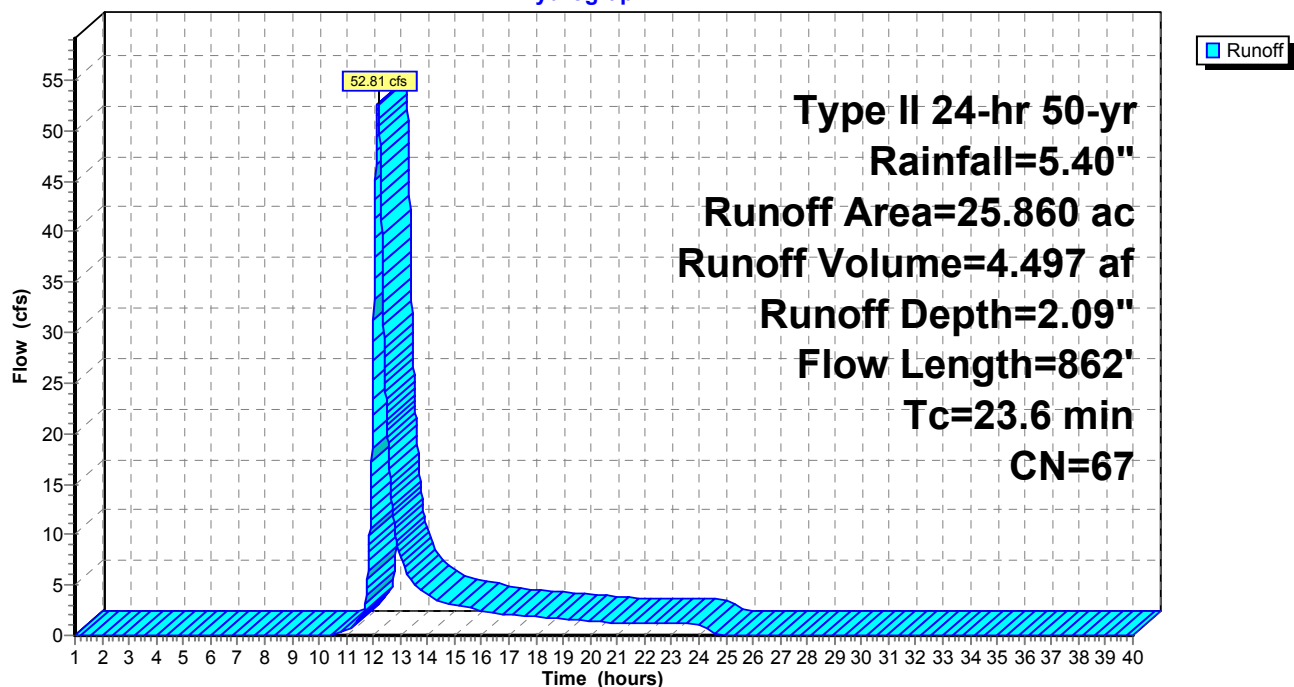
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
25.860	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.6	862	0.0300	0.6		Lag/CN Method,

Subcatchment W146: W146

Hydrograph



Subcatchment W150: W150

Runoff = 59.73 cfs @ 12.22 hrs, Volume= 5.802 af, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

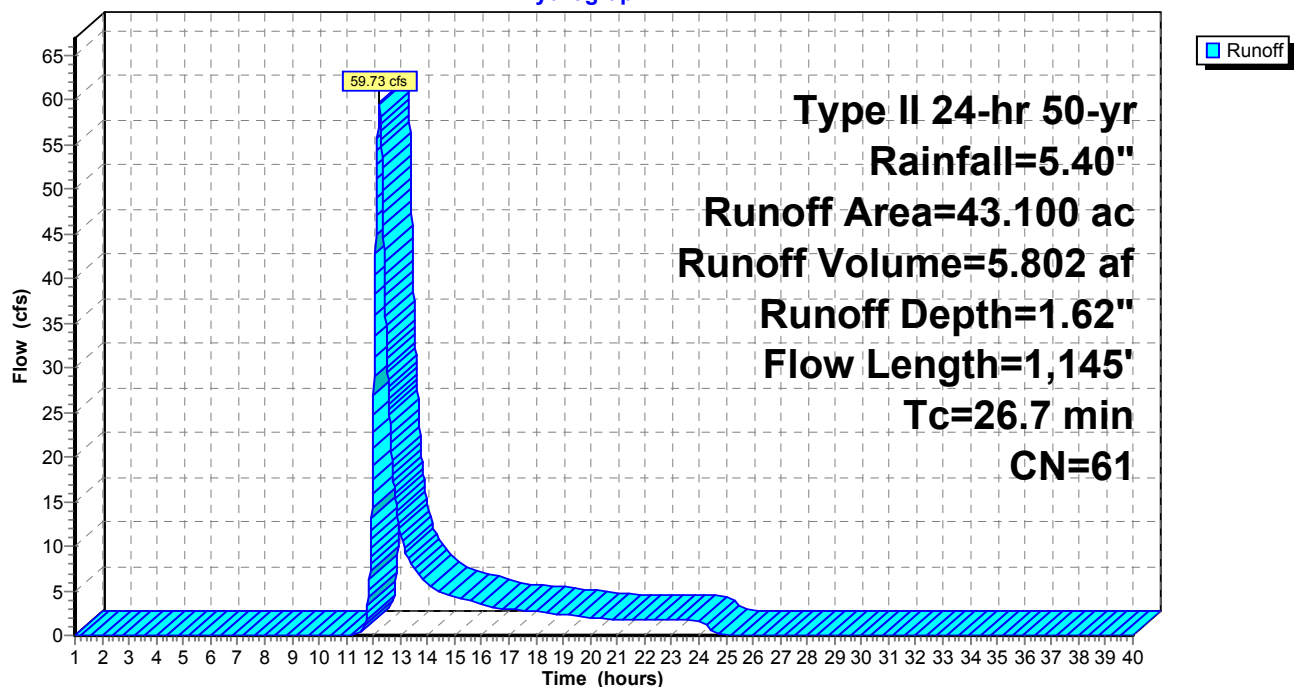
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
43.100	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,145	0.0500	0.7		Lag/CN Method,

Subcatchment W150: W150

Hydrograph



Subcatchment W2: W2

Runoff = 16.21 cfs @ 11.96 hrs, Volume= 0.833 af, Depth= 0.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

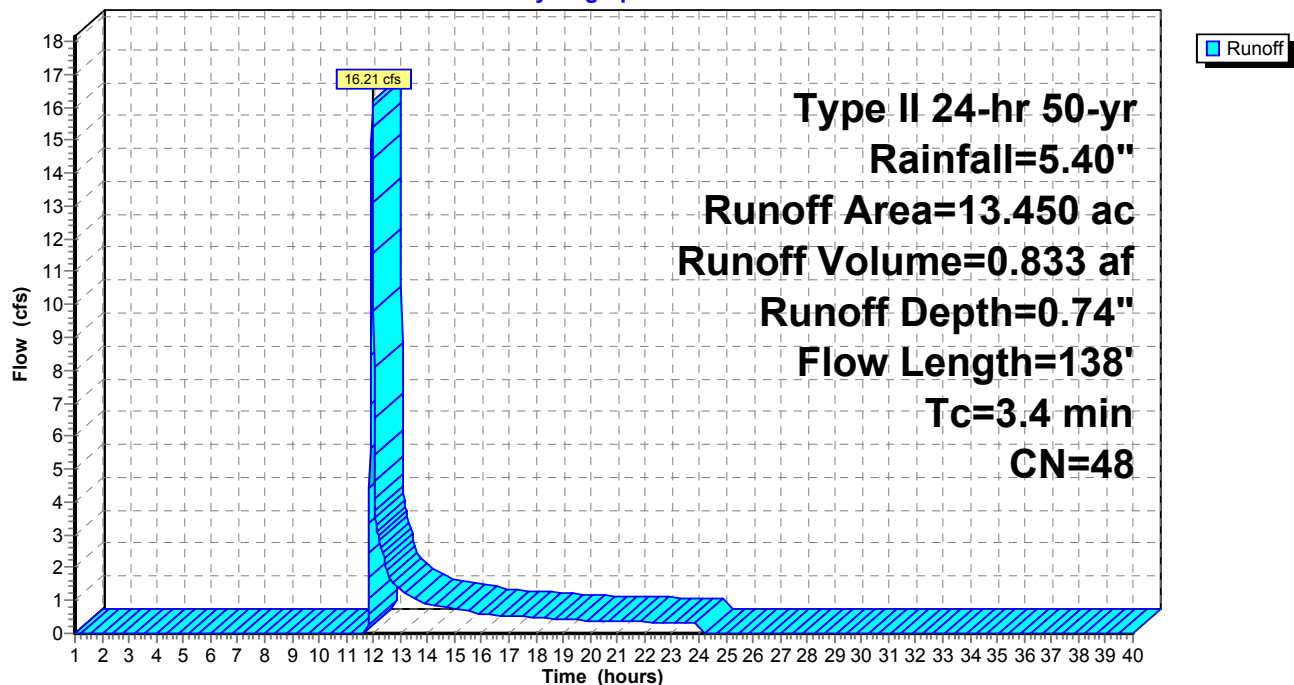
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
13.450	48	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	138	0.2000	0.7		Lag/CN Method,

Subcatchment W2: W2

Hydrograph



Subcatchment W30: W30

Runoff = 73.72 cfs @ 11.97 hrs, Volume= 3.348 af, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

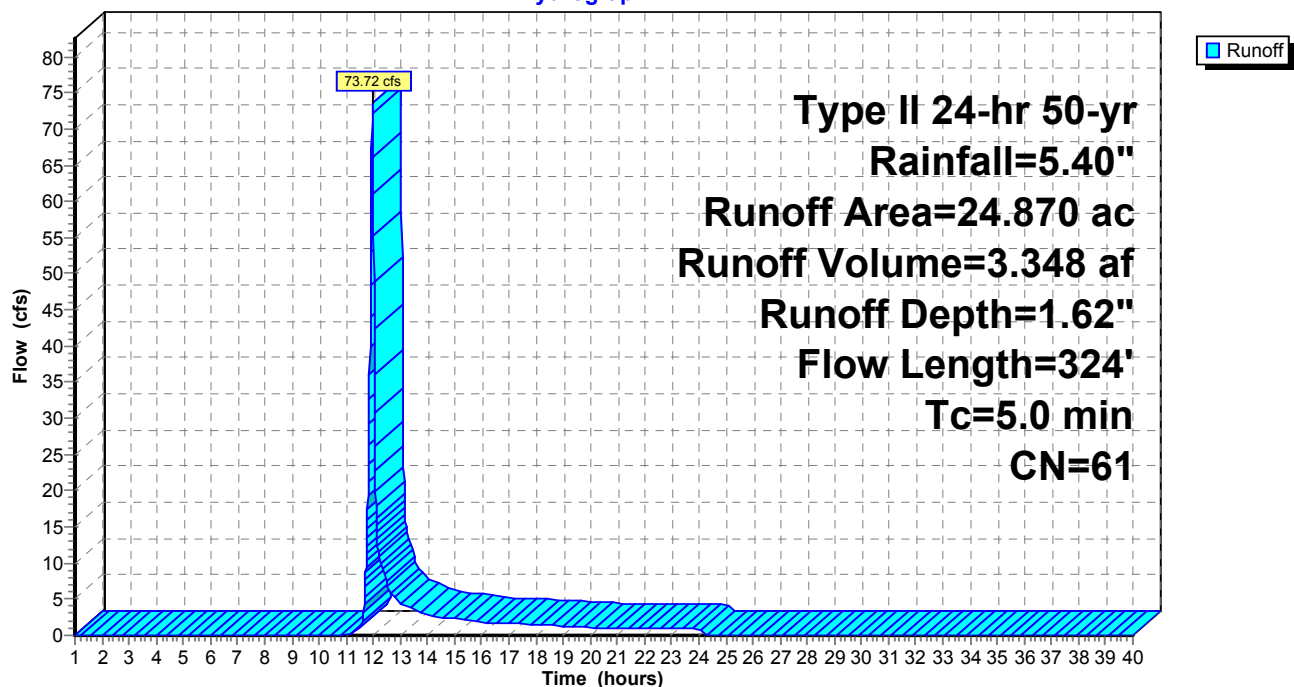
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
24.870	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	324	0.1900	1.1		Lag/CN Method,

Subcatchment W30: W30

Hydrograph



Subcatchment W31: W31

Runoff = 125.74 cfs @ 12.05 hrs, Volume= 7.632 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

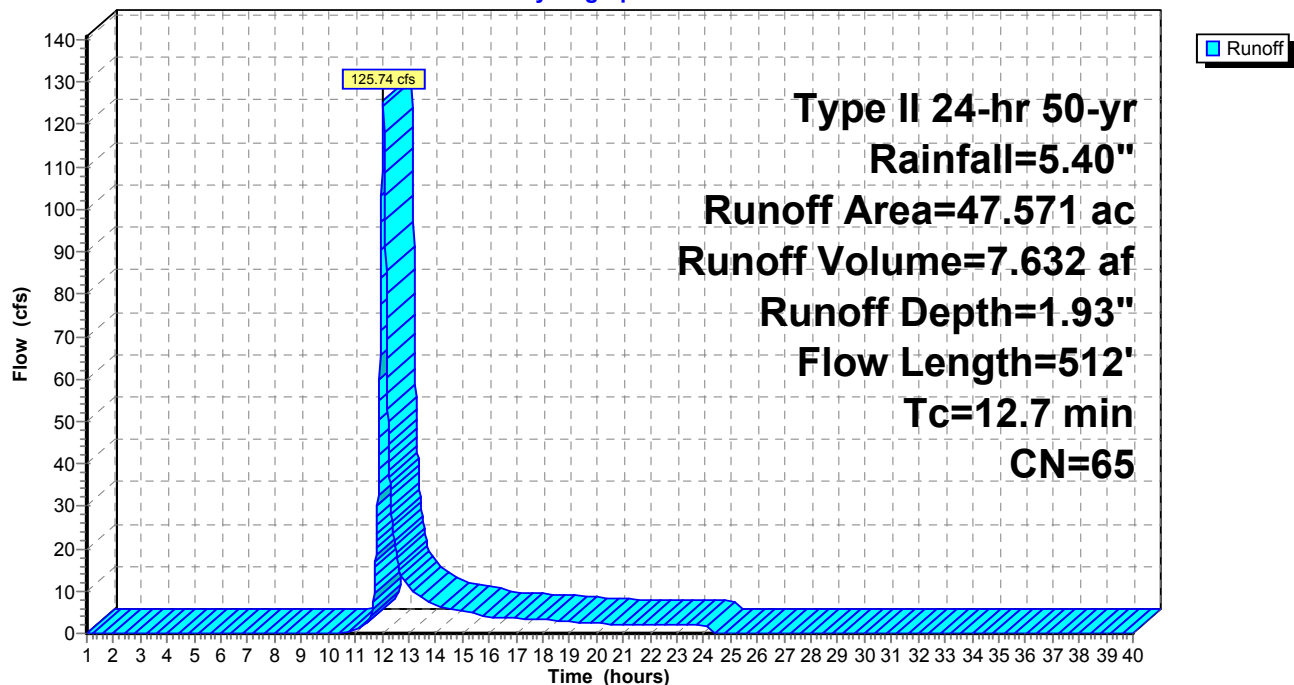
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
47.571	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	512	0.0500	0.7		Lag/CN Method,

Subcatchment W31: W31

Hydrograph



Subcatchment W32: W32

Runoff = 198.20 cfs @ 12.01 hrs, Volume= 10.470 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

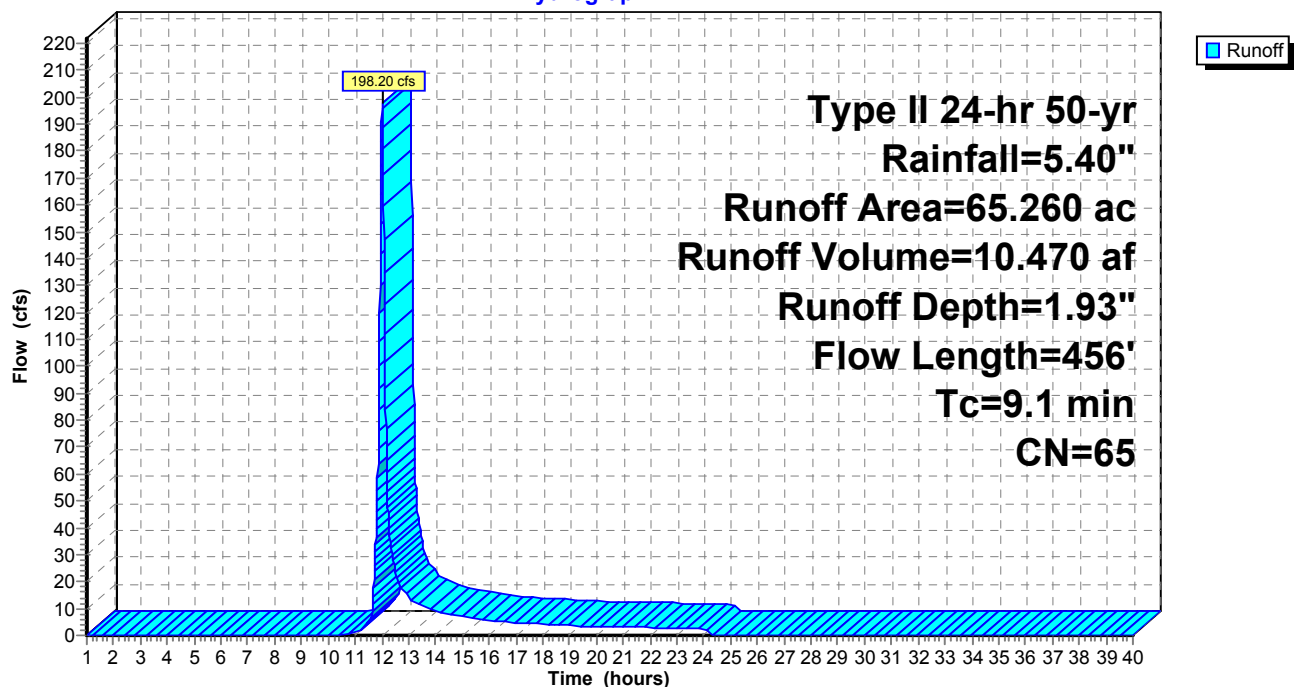
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
65.260	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	456	0.0800	0.8		Lag/CN Method,

Subcatchment W32: W32

Hydrograph



Subcatchment W33: W33

Runoff = 35.09 cfs @ 11.95 hrs, Volume= 1.518 af, Depth= 1.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

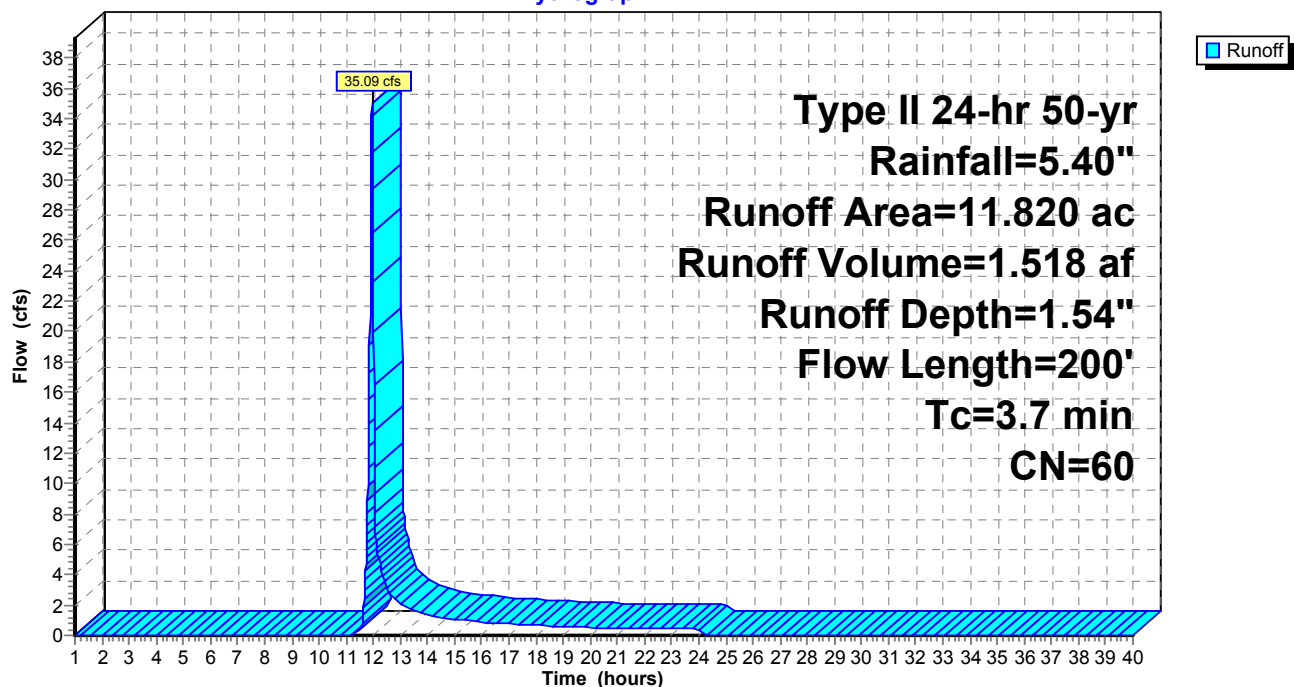
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
11.820	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	200	0.1700	0.9		Lag/CN Method,

Subcatchment W33: W33

Hydrograph



Subcatchment W34: W34

Runoff = 30.49 cfs @ 12.01 hrs, Volume= 1.604 af, Depth= 1.47"

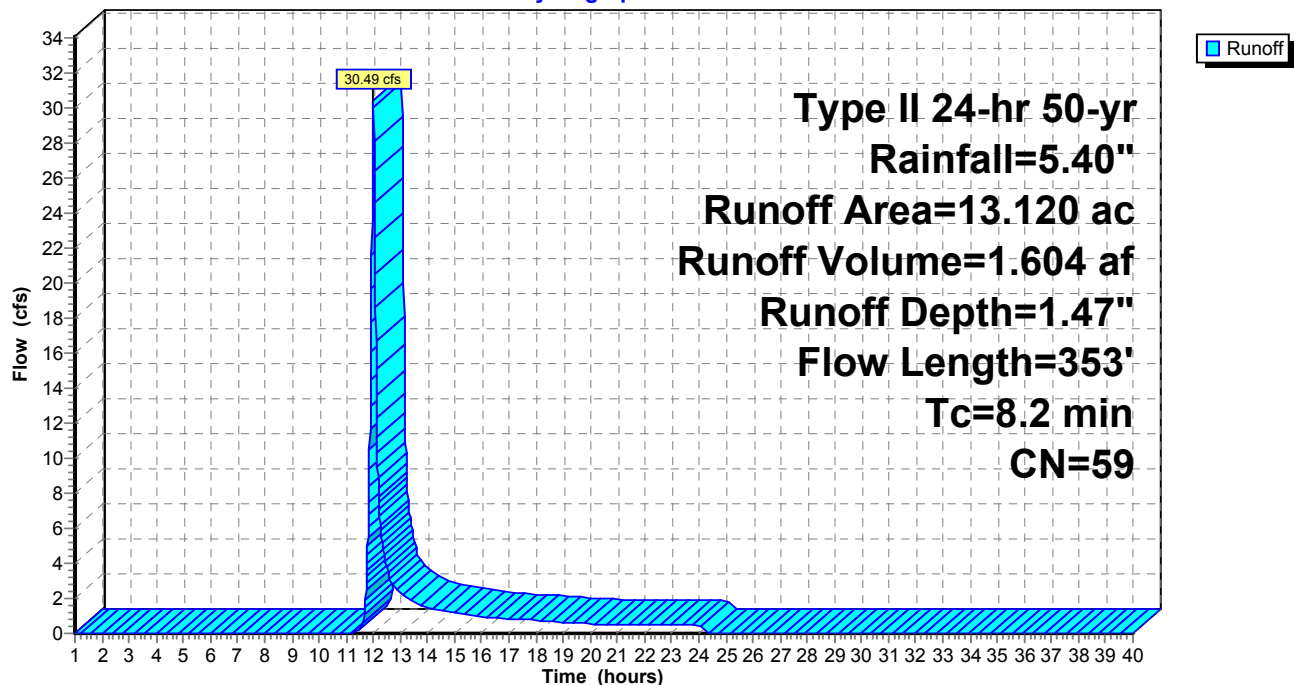
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
13.120	59	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	353	0.0900	0.7		Lag/CN Method,

Subcatchment W34: W34

Hydrograph



Subcatchment W35: W35

Runoff = 15.19 cfs @ 11.96 hrs, Volume= 0.668 af, Depth= 1.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

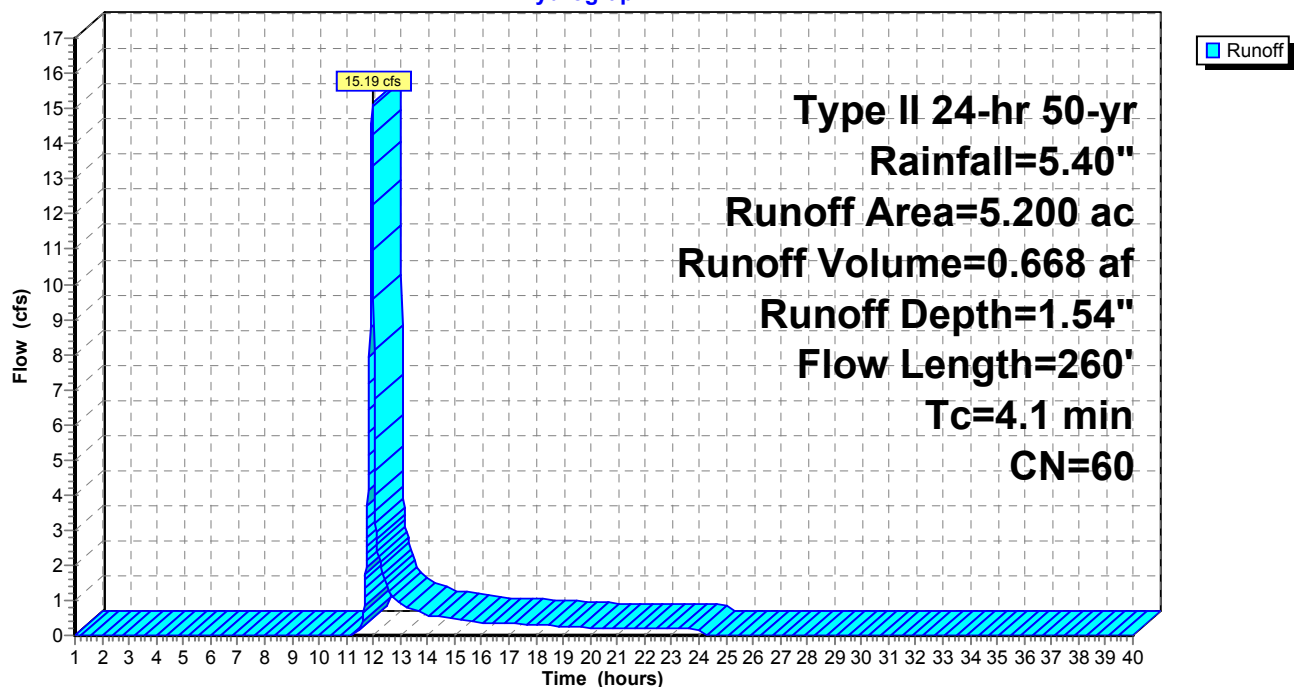
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.200	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	260	0.2100	1.1		Lag/CN Method,

Subcatchment W35: W35

Hydrograph



Subcatchment W36: W36

Runoff = 13.50 cfs @ 11.98 hrs, Volume= 0.645 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

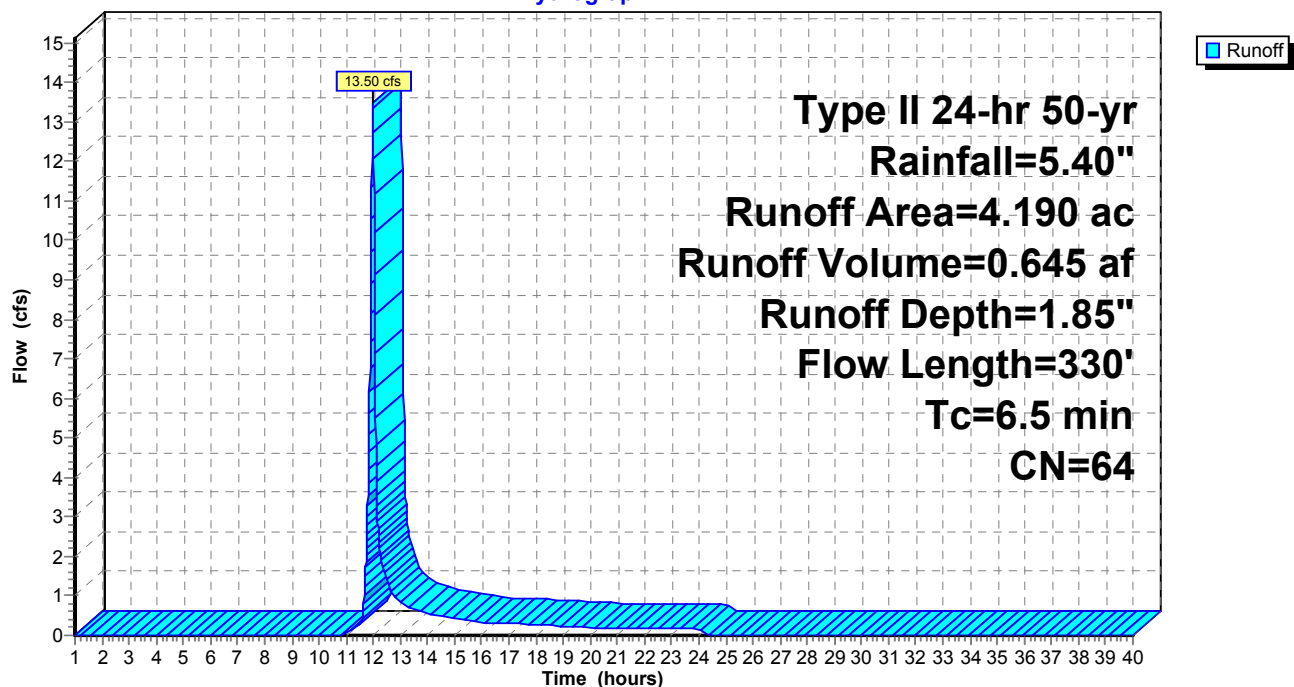
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.190	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	330	0.1000	0.9		Lag/CN Method,

Subcatchment W36: W36

Hydrograph



Subcatchment W37: W37

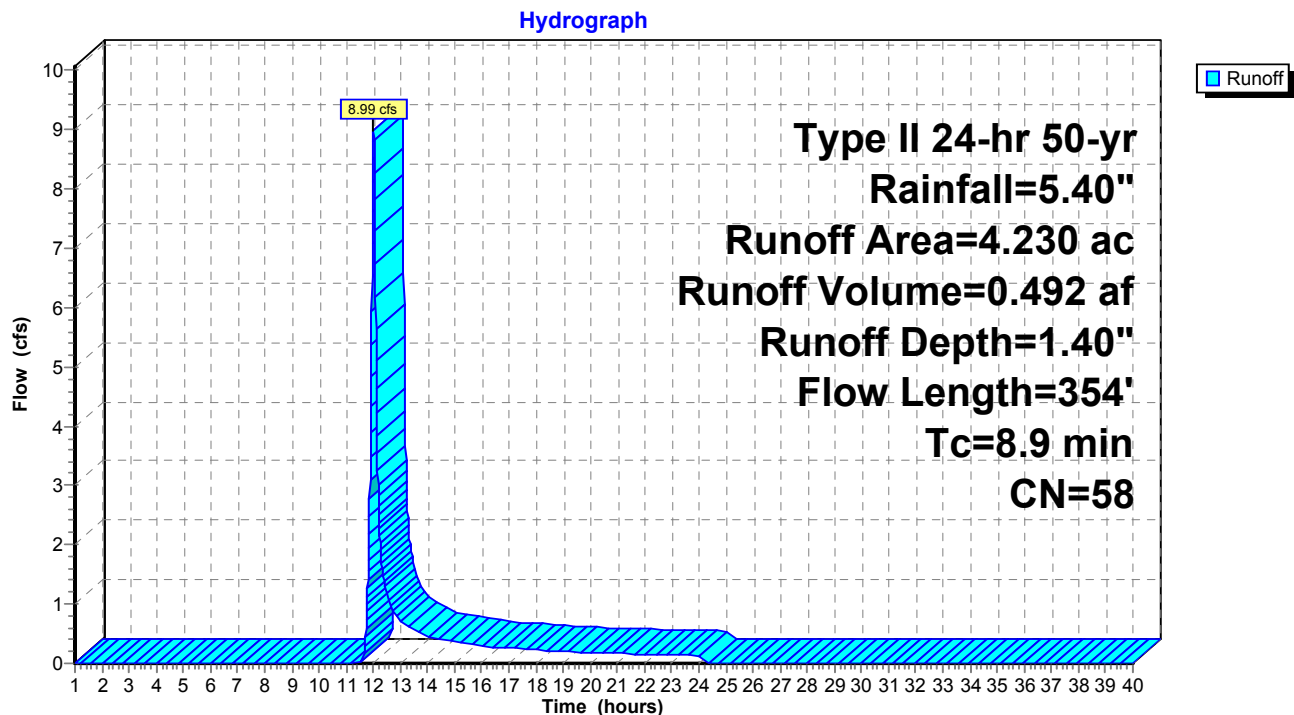
Runoff = 8.99 cfs @ 12.02 hrs, Volume= 0.492 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.230	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	354	0.0800	0.7		Lag/CN Method,

Subcatchment W37: W37

Subcatchment W38: W38

Runoff = 46.64 cfs @ 11.96 hrs, Volume= 2.067 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

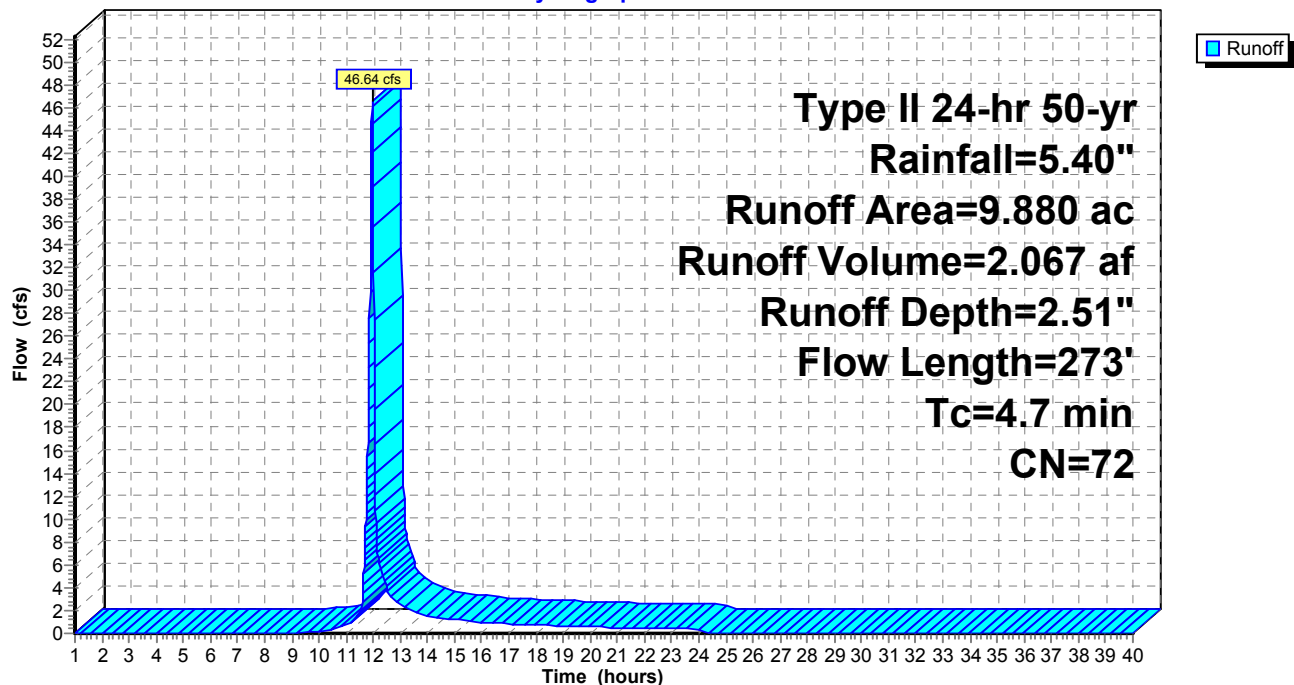
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.880	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	273	0.0900	1.0		Lag/CN Method,

Subcatchment W38: W38

Hydrograph



Subcatchment W39: W39

Runoff = 31.71 cfs @ 12.02 hrs, Volume= 1.715 af, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

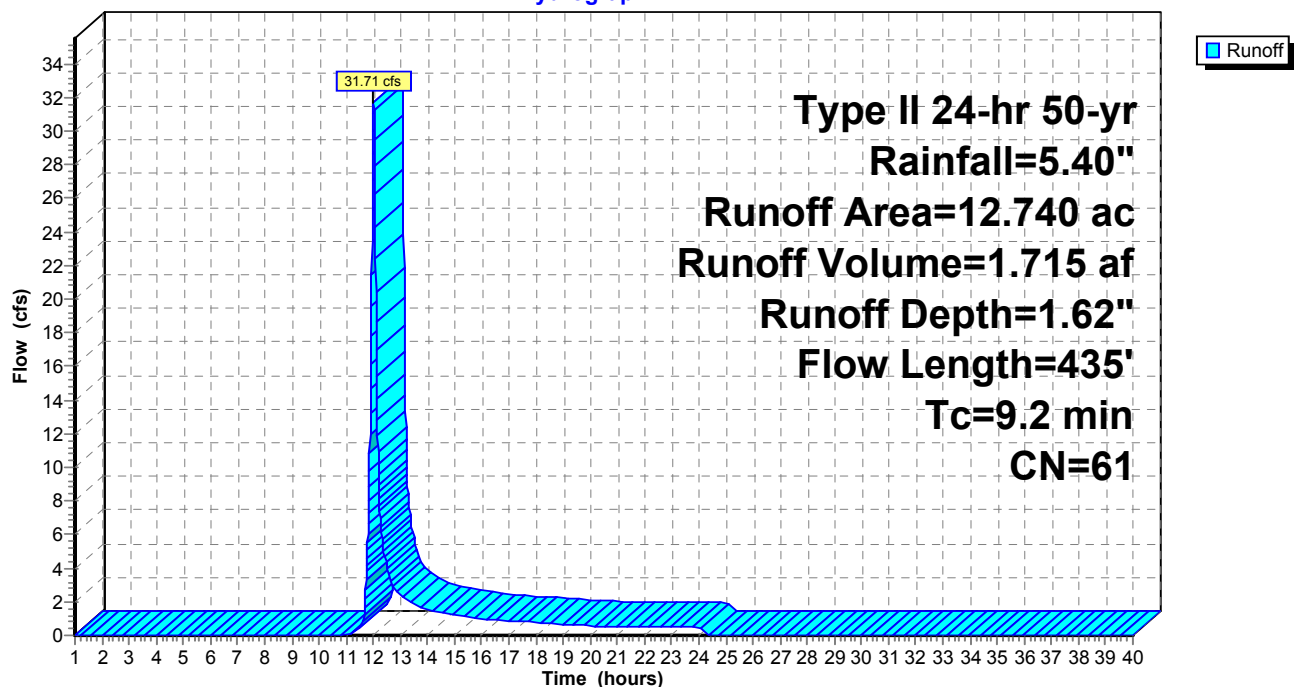
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
12.740	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	435	0.0900	0.8		Lag/CN Method,

Subcatchment W39: W39

Hydrograph



Subcatchment W40: W40

Runoff = 110.78 cfs @ 11.95 hrs, Volume= 4.873 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

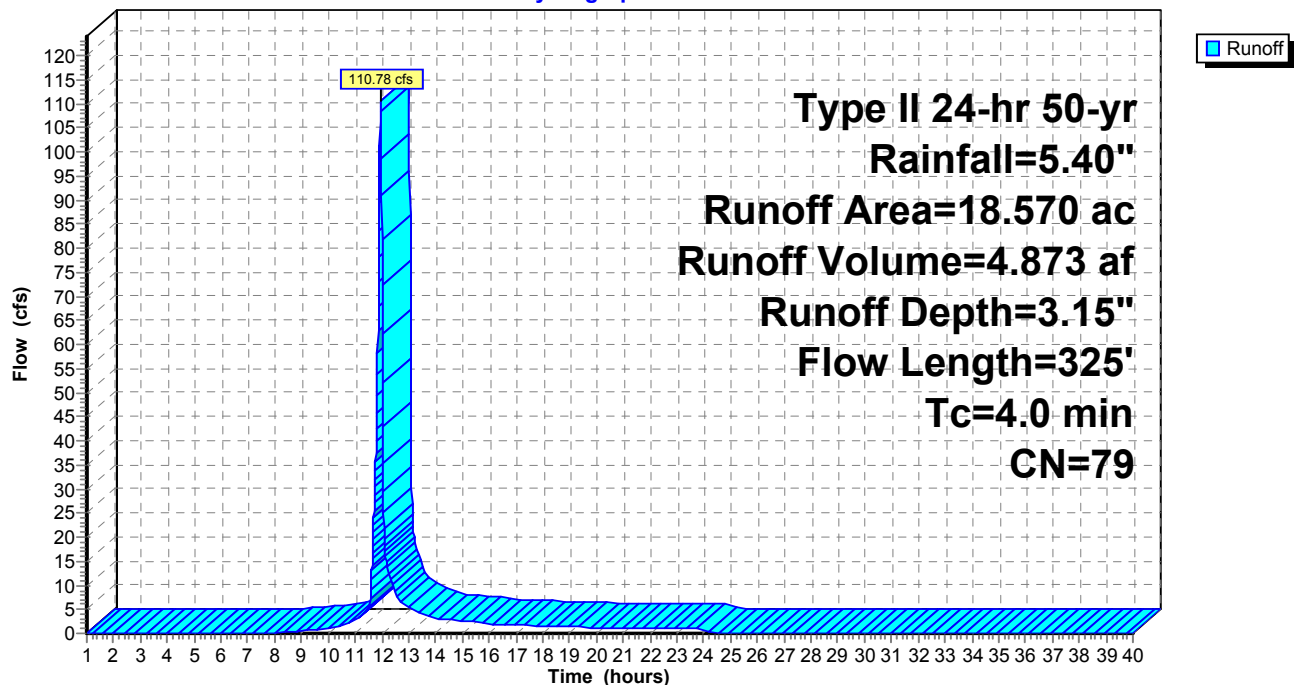
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.570	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	325	0.1100	1.3		Lag/CN Method,

Subcatchment W40: W40

Hydrograph



Subcatchment W41: W41

Runoff = 25.72 cfs @ 11.99 hrs, Volume= 1.251 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

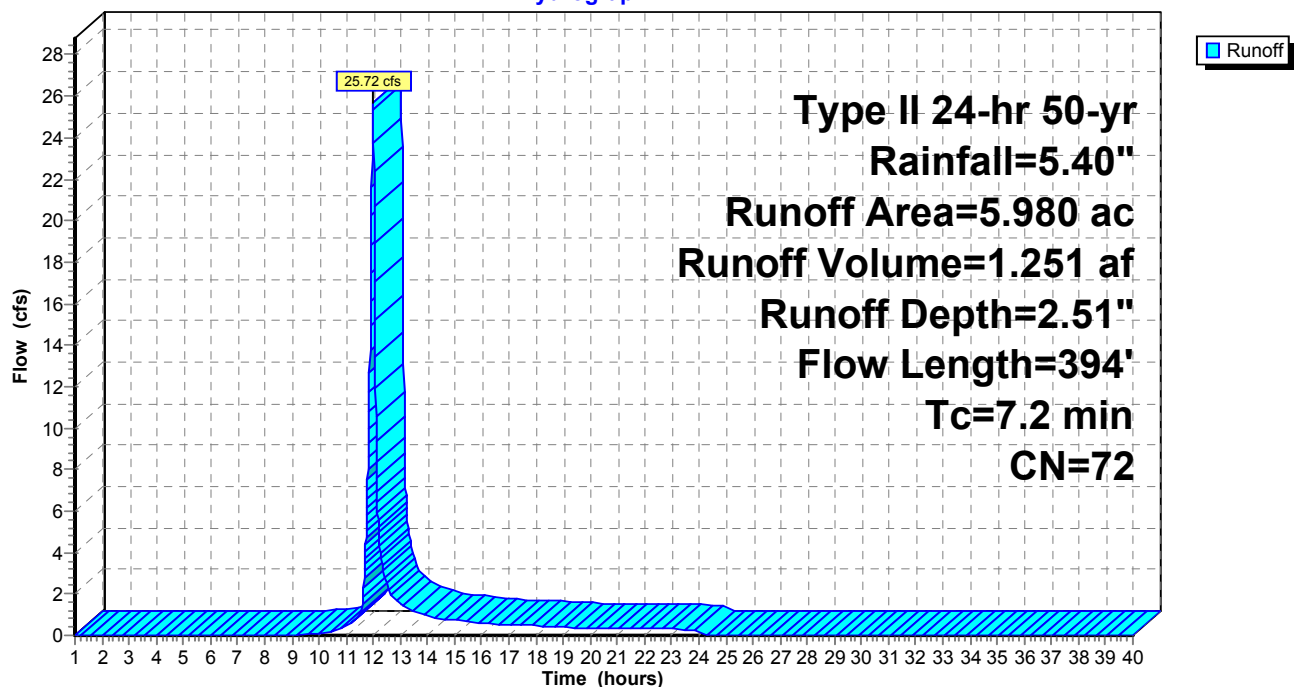
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.980	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	394	0.0700	0.9		Lag/CN Method,

Subcatchment W41: W41

Hydrograph



Subcatchment W42: W42

Runoff = 23.99 cfs @ 11.94 hrs, Volume= 0.995 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

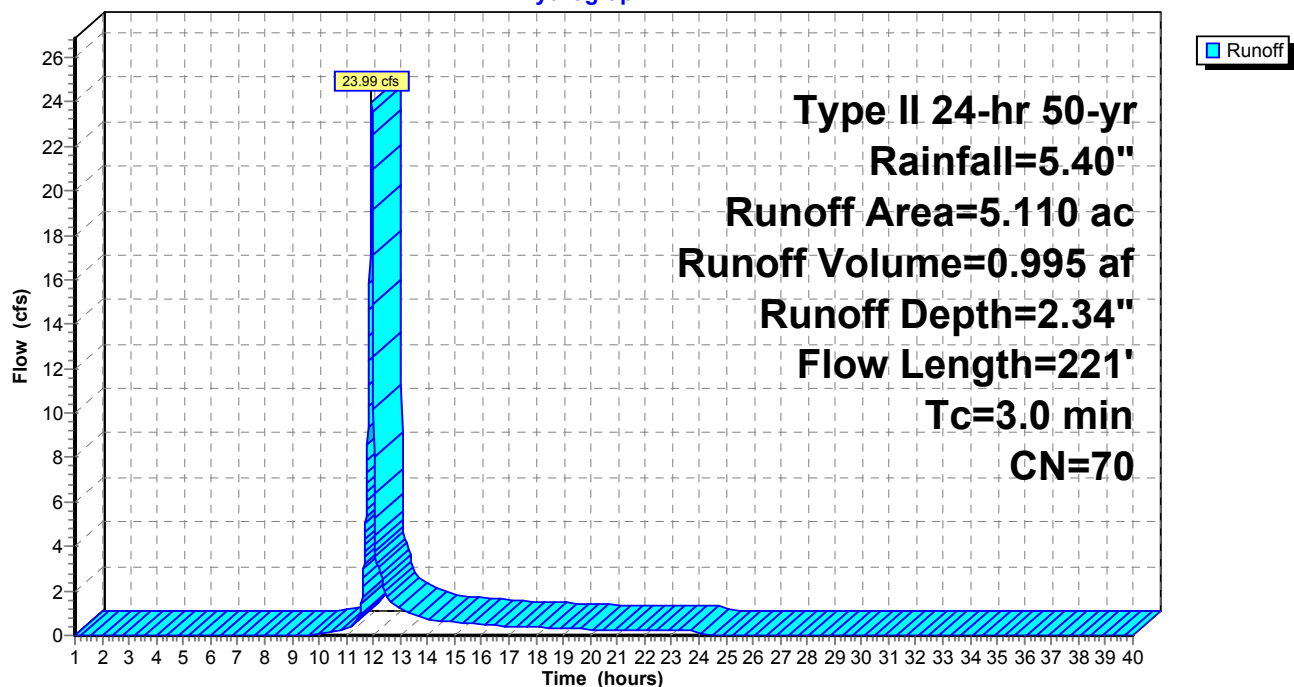
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.110	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	221	0.1800	1.2		Lag/CN Method,

Subcatchment W42: W42

Hydrograph



Subcatchment W43: W43

Runoff = 20.72 cfs @ 12.03 hrs, Volume= 1.170 af, Depth= 1.93"

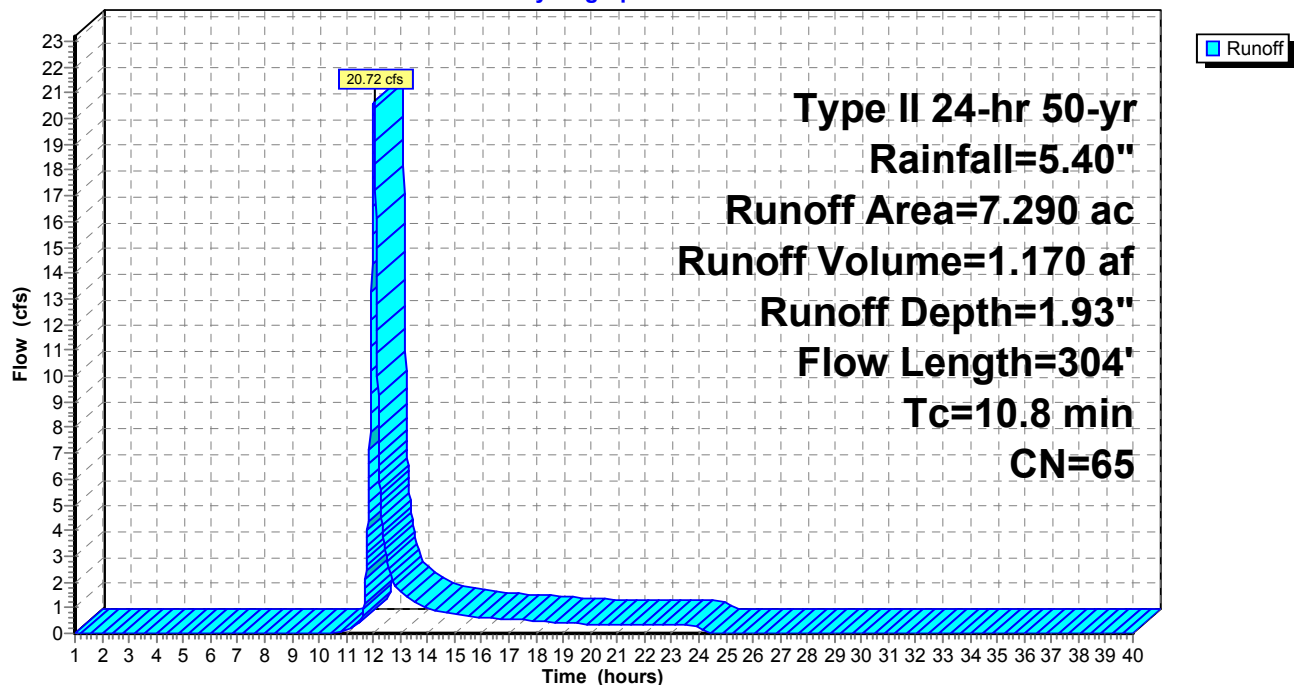
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.290	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	304	0.0300	0.5		Lag/CN Method,

Subcatchment W43: W43

Hydrograph



Subcatchment W44: W44

Runoff = 18.14 cfs @ 12.11 hrs, Volume= 1.313 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

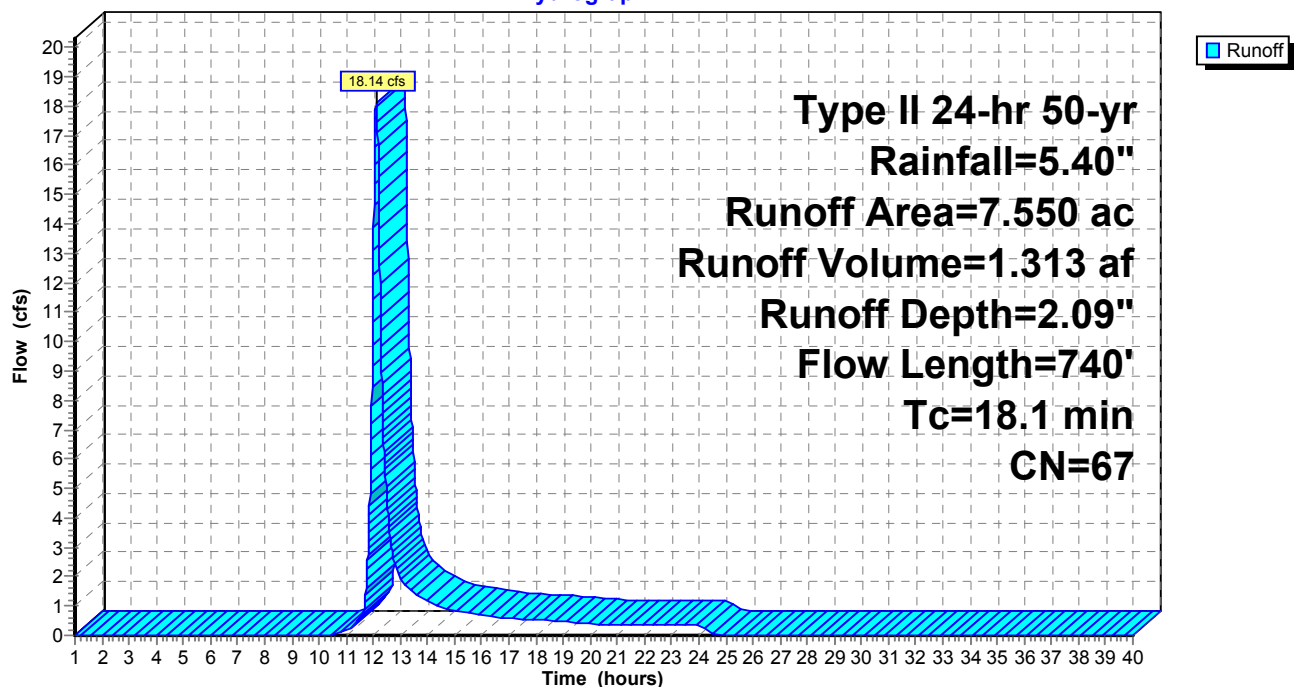
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.550	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.1	740	0.0400	0.7		Lag/CN Method,

Subcatchment W44: W44

Hydrograph



Subcatchment W45: W45

Runoff = 31.61 cfs @ 11.97 hrs, Volume= 1.436 af, Depth= 2.34"

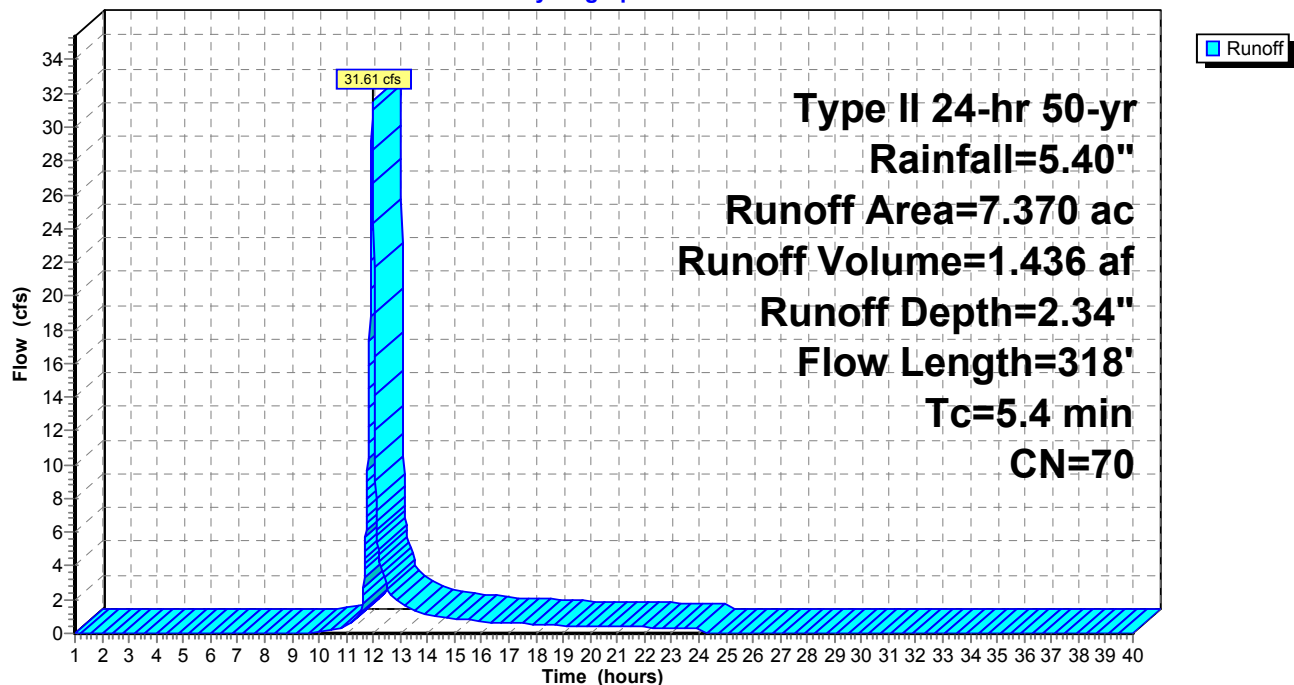
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.370	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.4	318	0.1000	1.0		Lag/CN Method,

Subcatchment W45: W45

Hydrograph



Subcatchment W46: W46

Runoff = 39.50 cfs @ 12.14 hrs, Volume= 3.033 af, Depth= 2.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

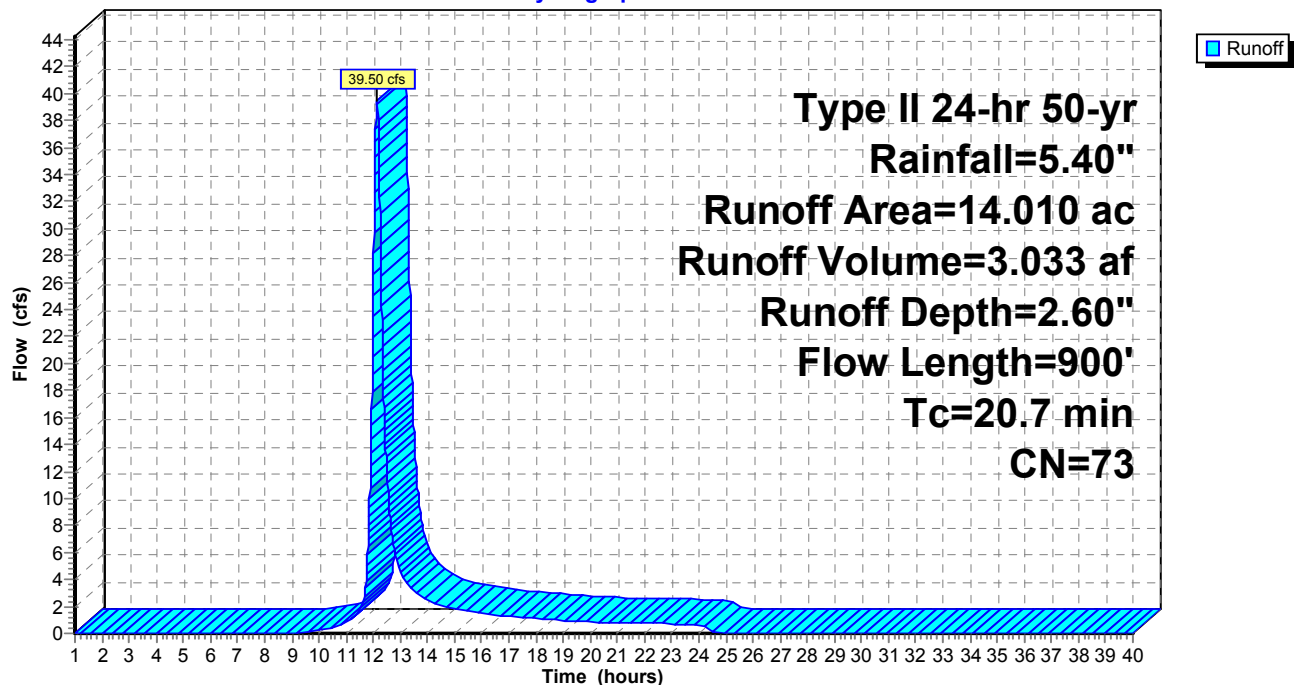
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
14.010	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.7	900	0.0300	0.7		Lag/CN Method,

Subcatchment W46: W46

Hydrograph



Subcatchment W47: W47

Runoff = 15.73 cfs @ 12.15 hrs, Volume= 1.228 af, Depth= 2.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

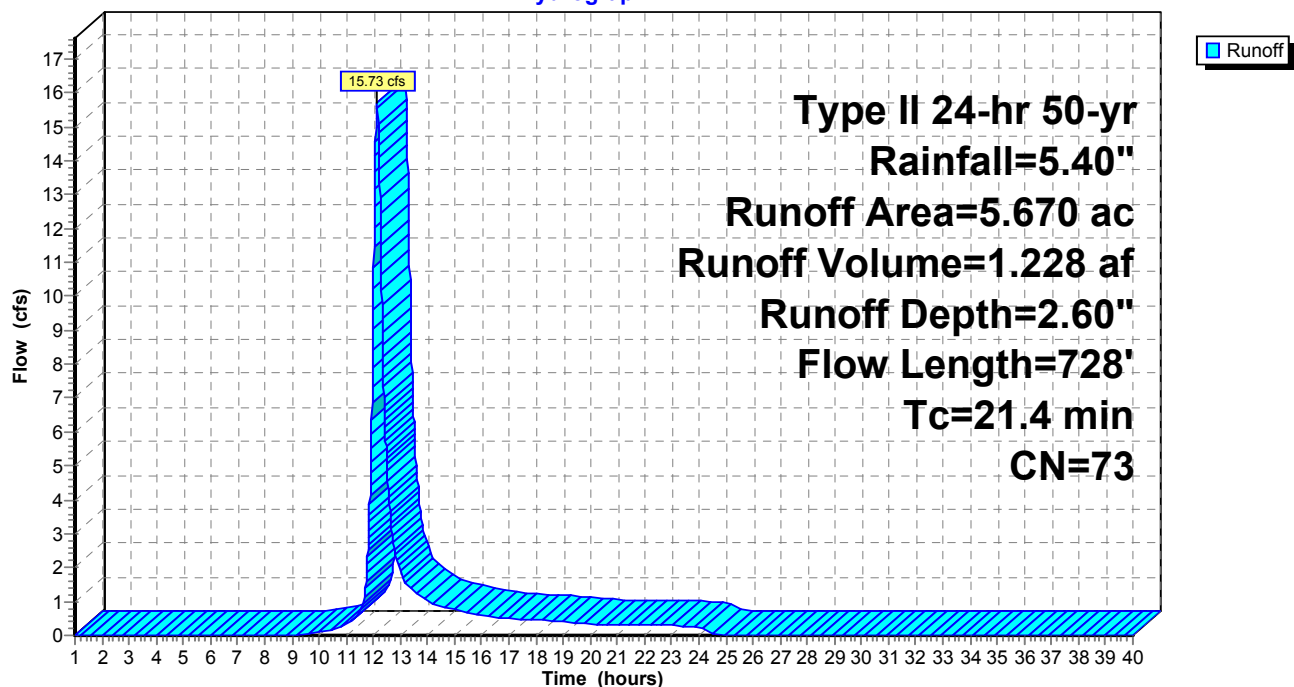
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.670	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.4	728	0.0200	0.6		Lag/CN Method,

Subcatchment W47: W47

Hydrograph



Subcatchment W48: W48

Runoff = 6.82 cfs @ 12.01 hrs, Volume= 0.361 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

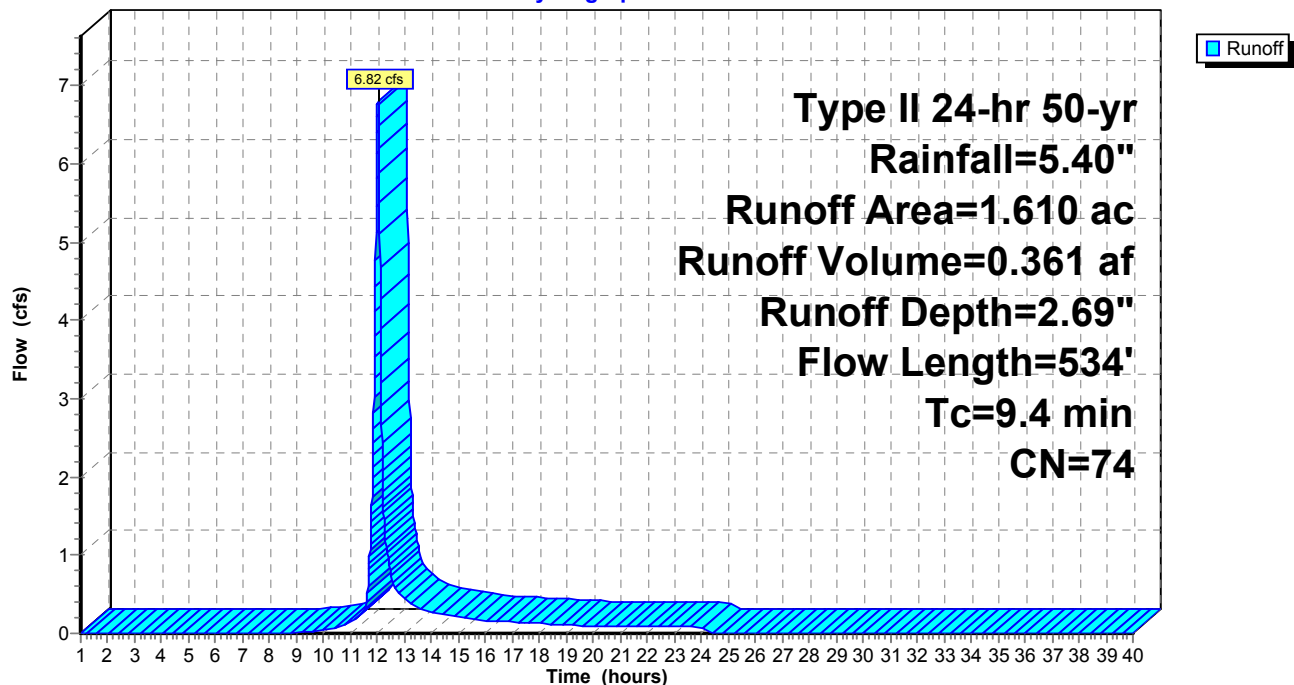
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
1.610	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	534	0.0600	0.9		Lag/CN Method,

Subcatchment W48: W48

Hydrograph



Subcatchment W49: W49

Runoff = 46.70 cfs @ 11.99 hrs, Volume= 2.317 af, Depth= 3.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

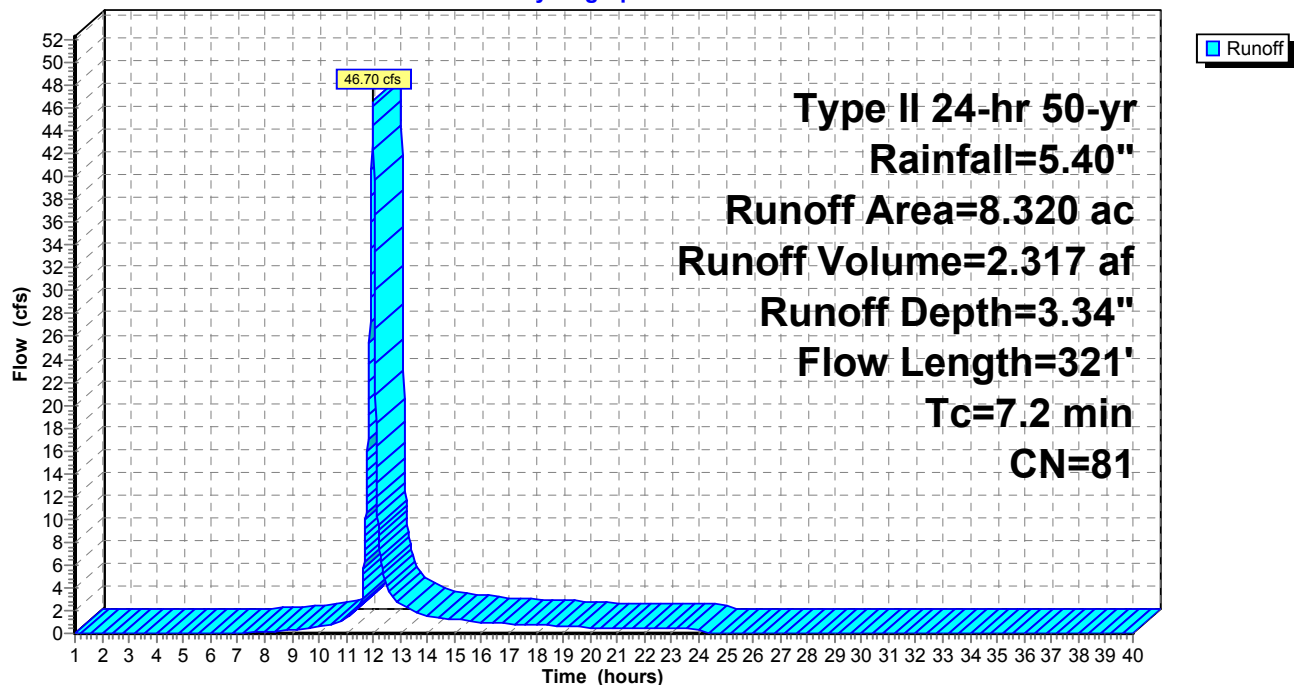
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.320	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	321	0.0300	0.7		Lag/CN Method,

Subcatchment W49: W49

Hydrograph



Subcatchment W50: W50

Runoff = 53.02 cfs @ 12.24 hrs, Volume= 5.208 af, Depth= 3.44"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

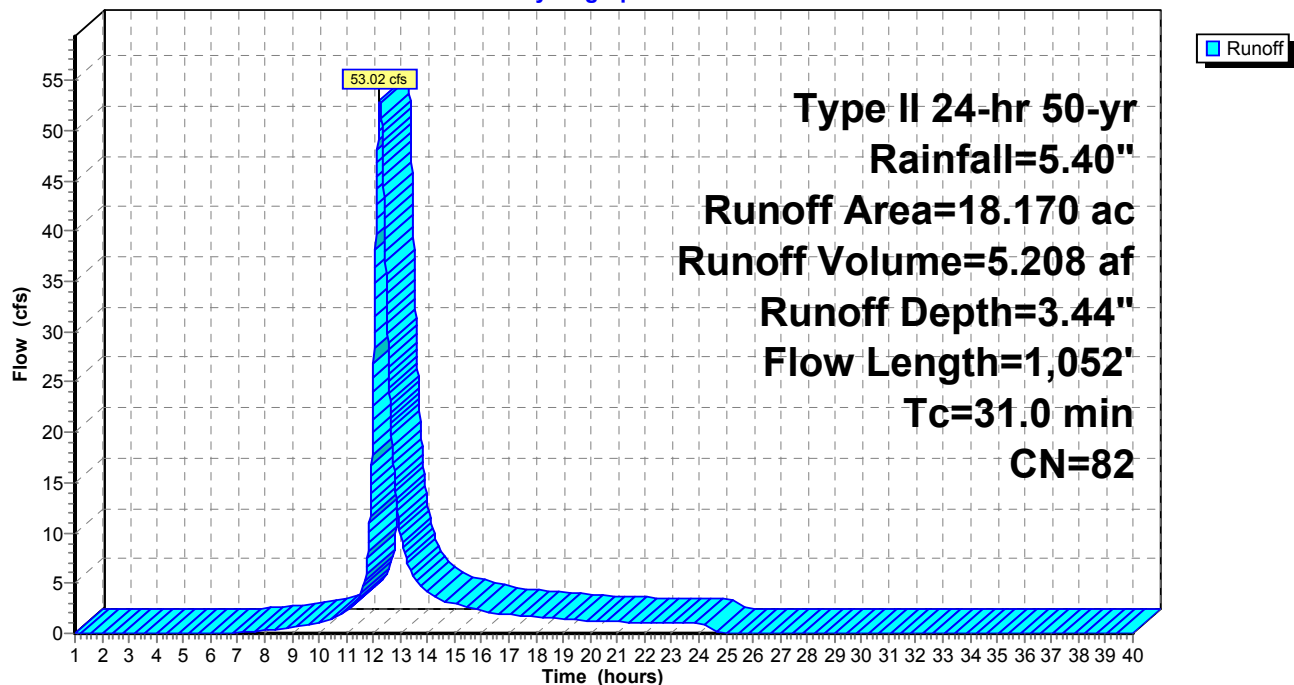
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.170	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	1,052	0.0100	0.6		Lag/CN Method,

Subcatchment W50: W50

Hydrograph



Subcatchment W51: W51

Runoff = 26.41 cfs @ 12.04 hrs, Volume= 1.524 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

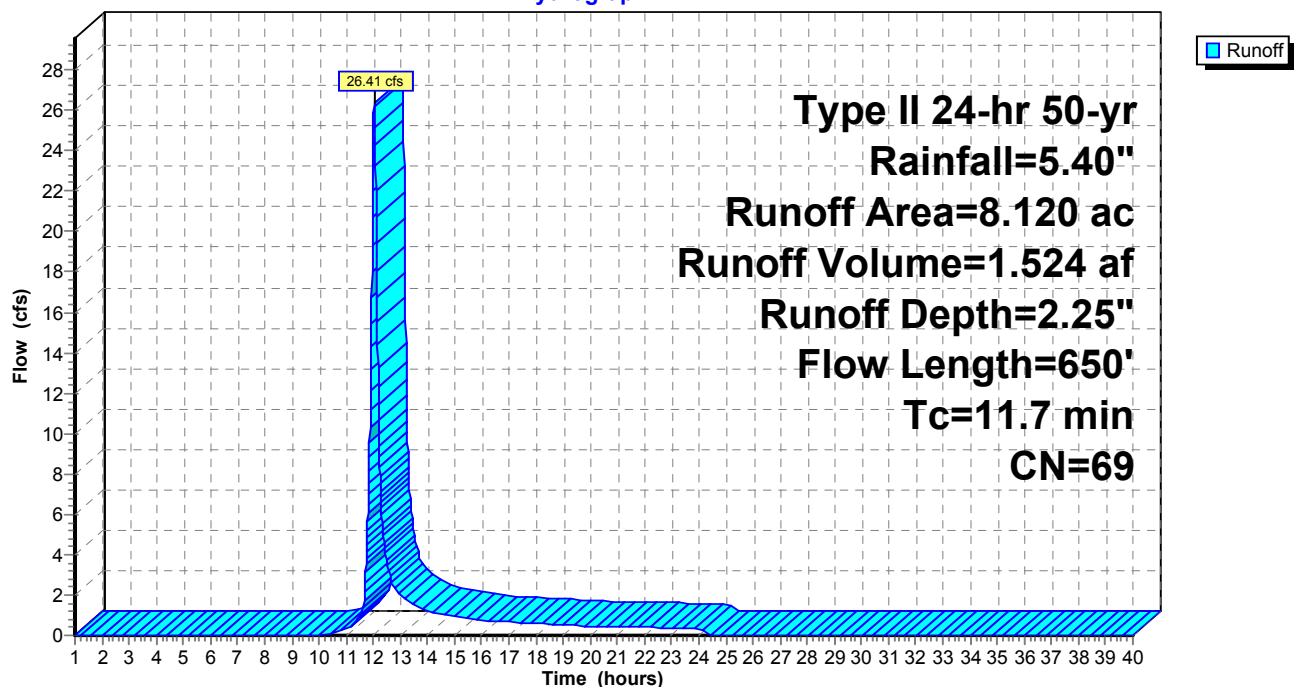
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.120	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	650	0.0700	0.9		Lag/CN Method,

Subcatchment W51: W51

Hydrograph



Subcatchment W52: W52

Runoff = 27.18 cfs @ 12.00 hrs, Volume= 1.391 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

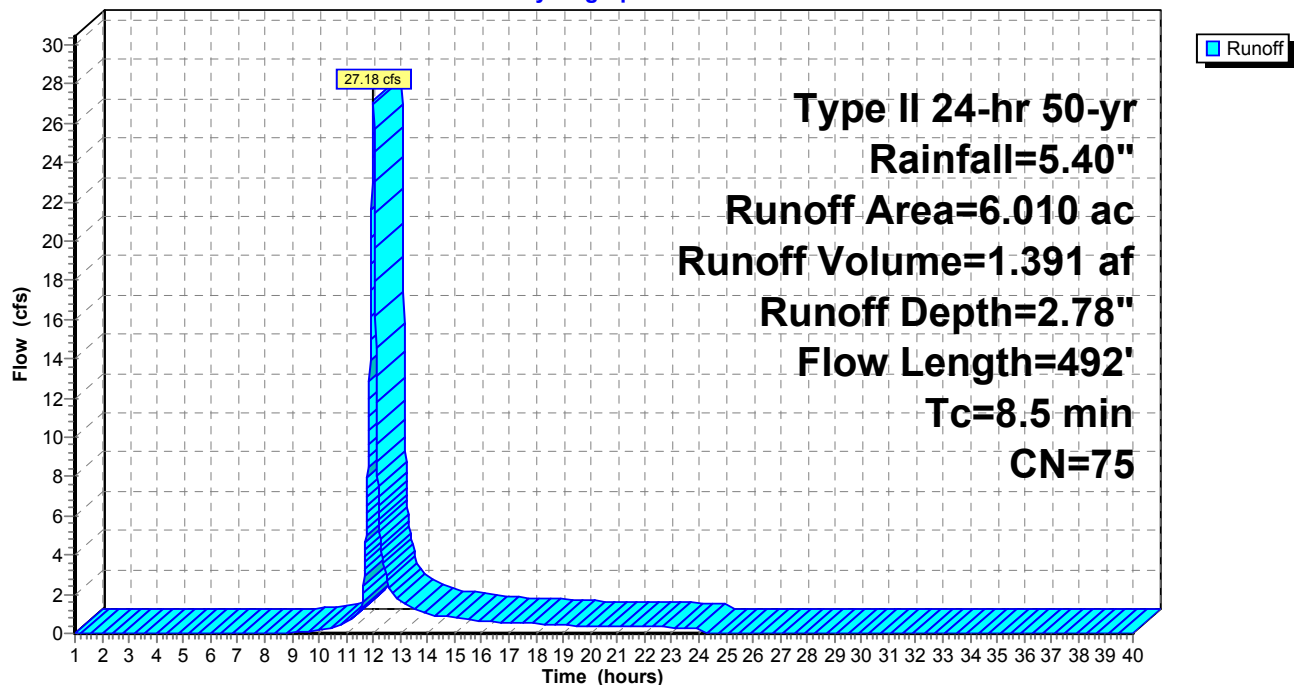
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
6.010	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	492	0.0600	1.0		Lag/CN Method,

Subcatchment W52: W52

Hydrograph



Subcatchment W53: W53

Runoff = 28.57 cfs @ 12.20 hrs, Volume= 2.556 af, Depth= 2.51"

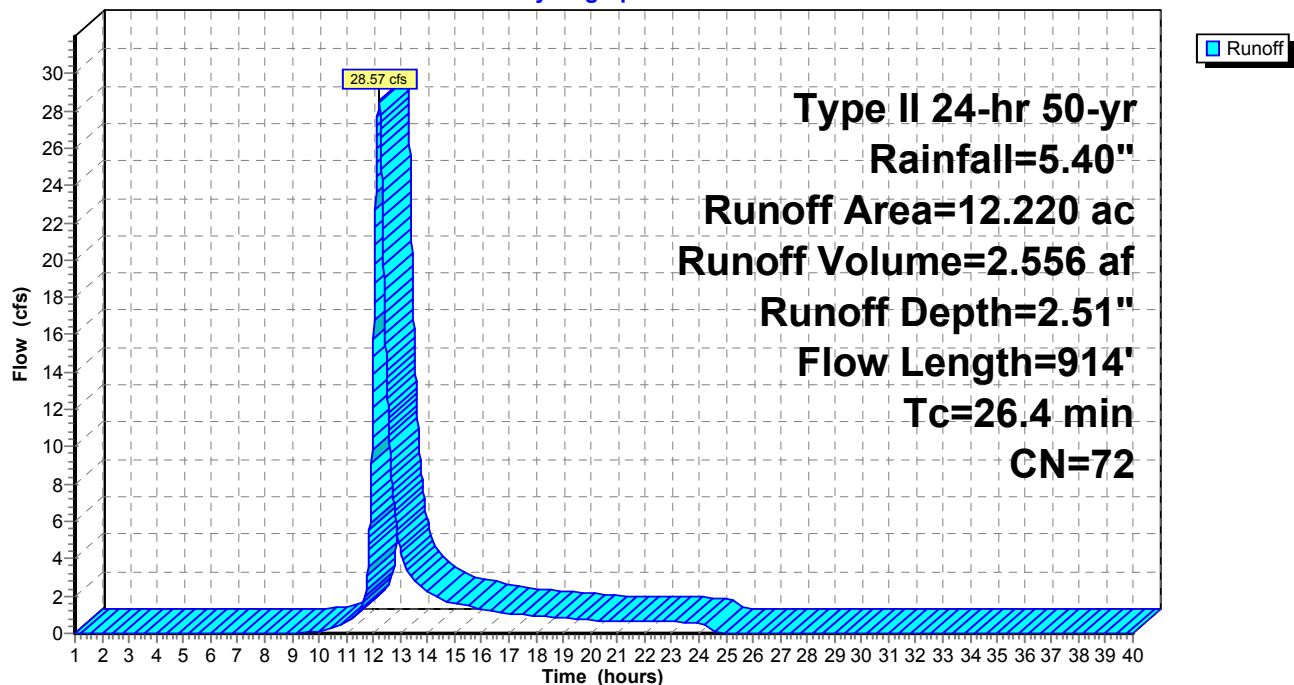
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
12.220	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	914	0.0200	0.6		Lag/CN Method,

Subcatchment W53: W53

Hydrograph



Subcatchment W54: W54

Runoff = 33.85 cfs @ 12.03 hrs, Volume= 1.897 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

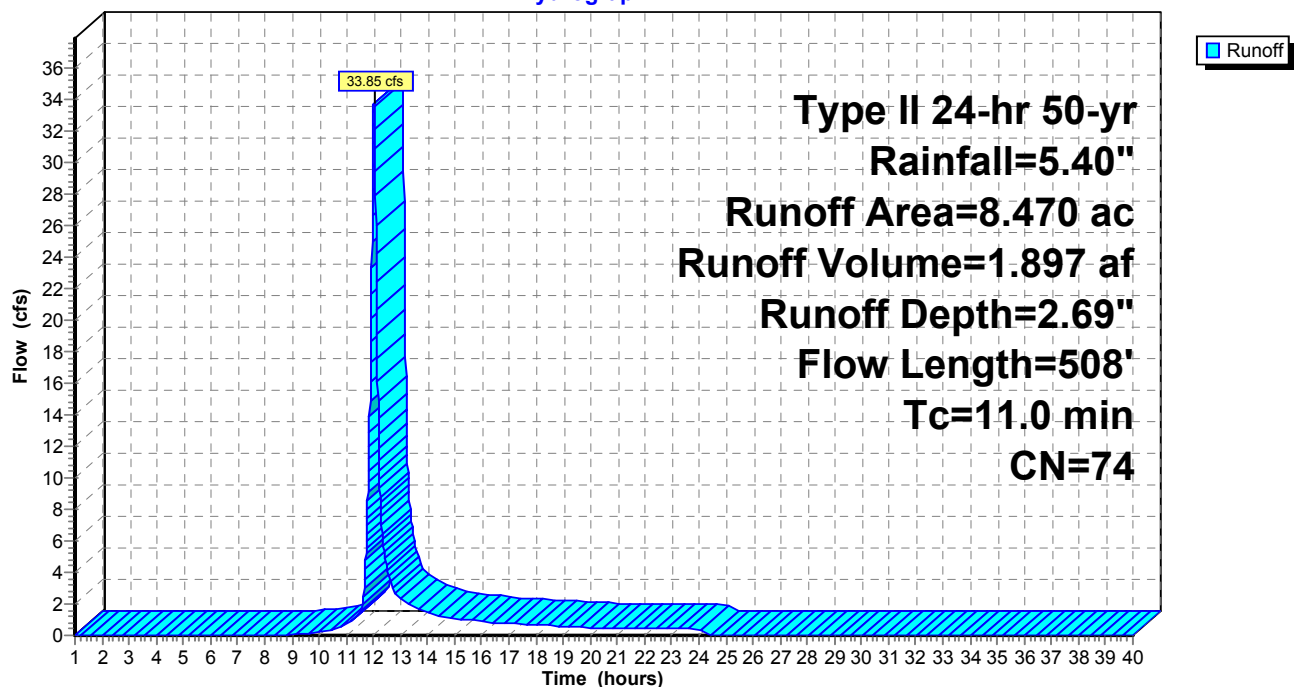
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.470	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	508	0.0400	0.8		Lag/CN Method,

Subcatchment W54: W54

Hydrograph



Subcatchment W55: W55

Runoff = 7.72 cfs @ 12.00 hrs, Volume= 0.392 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

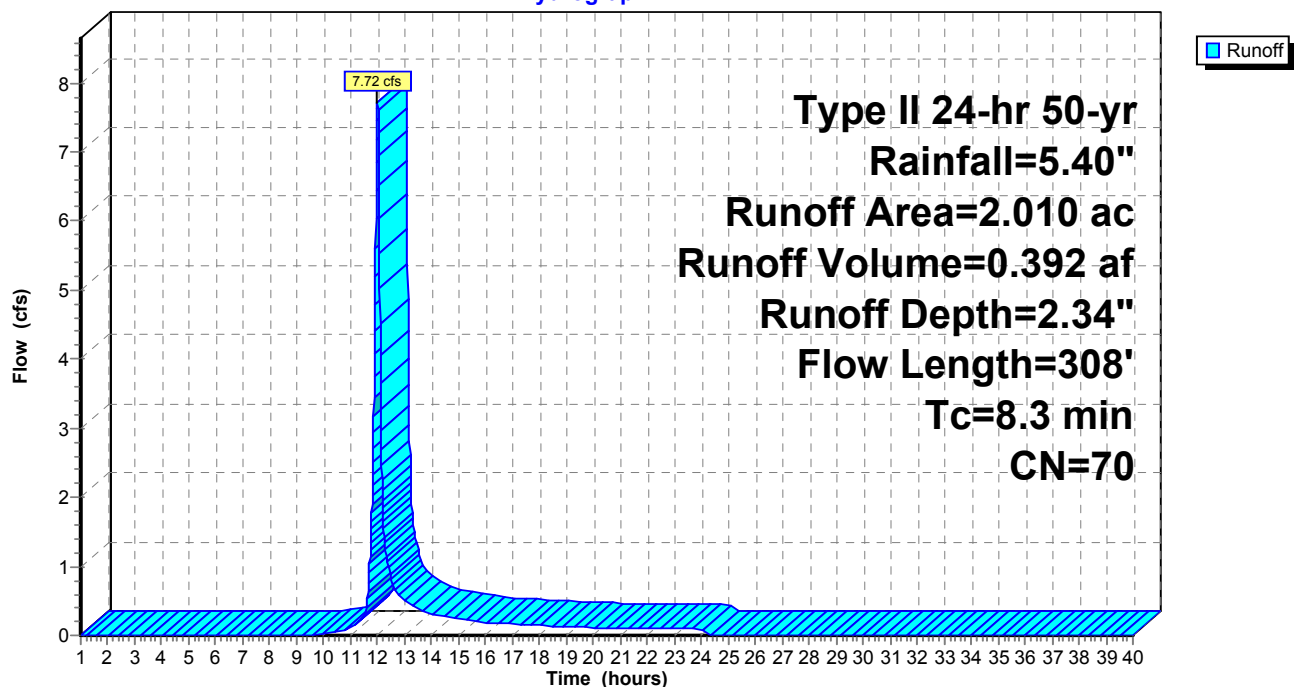
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
2.010	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	308	0.0400	0.6		Lag/CN Method,

Subcatchment W55: W55

Hydrograph



Subcatchment W56: W56

Runoff = 24.98 cfs @ 11.97 hrs, Volume= 1.118 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

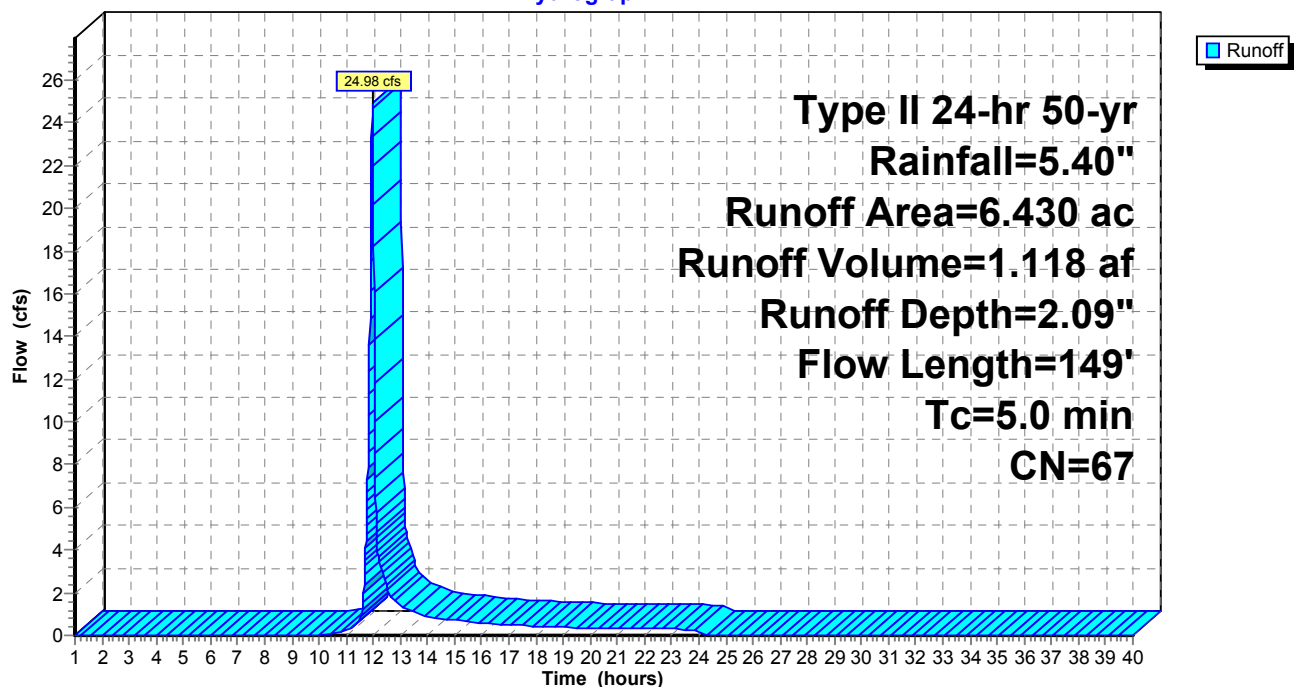
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
6.430	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	149	0.0400	0.5		Lag/CN Method,

Subcatchment W56: W56

Hydrograph



Subcatchment W57: W57

Runoff = 40.44 cfs @ 11.98 hrs, Volume= 1.895 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

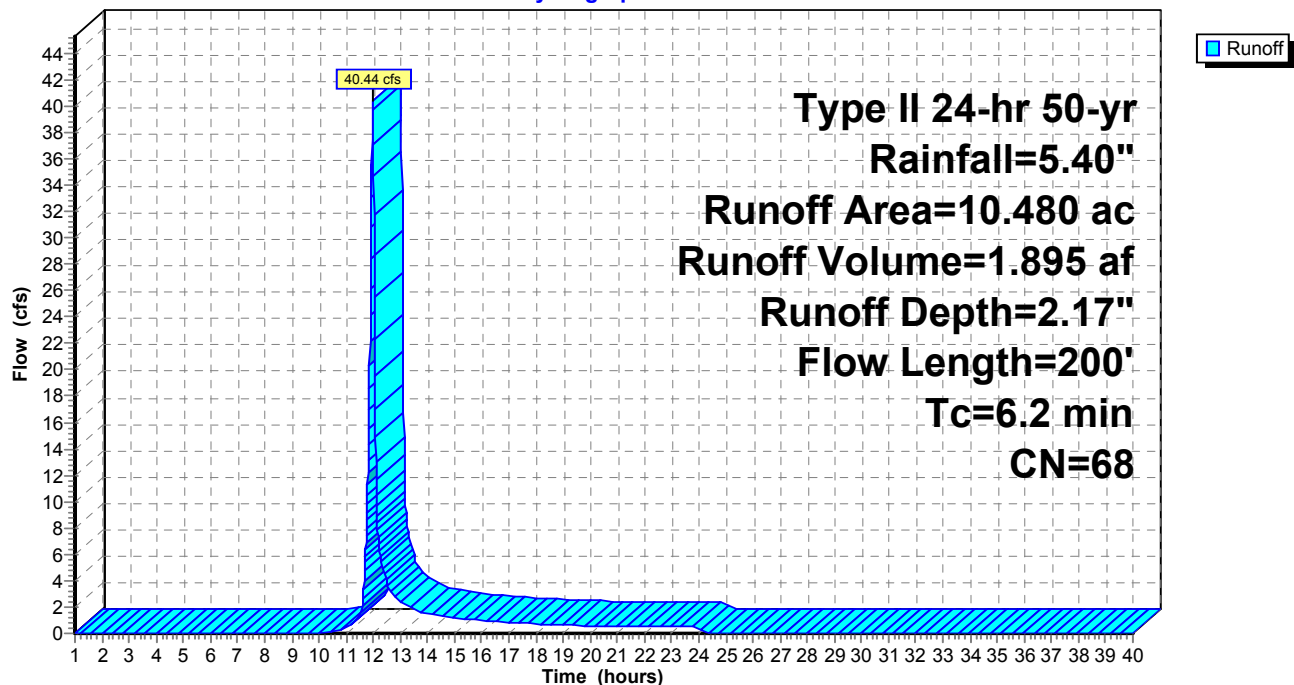
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
10.480	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	200	0.0400	0.5		Lag/CN Method,

Subcatchment W57: W57

Hydrograph



Subcatchment W58: W58

Runoff = 191.55 cfs @ 12.01 hrs, Volume= 9.913 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

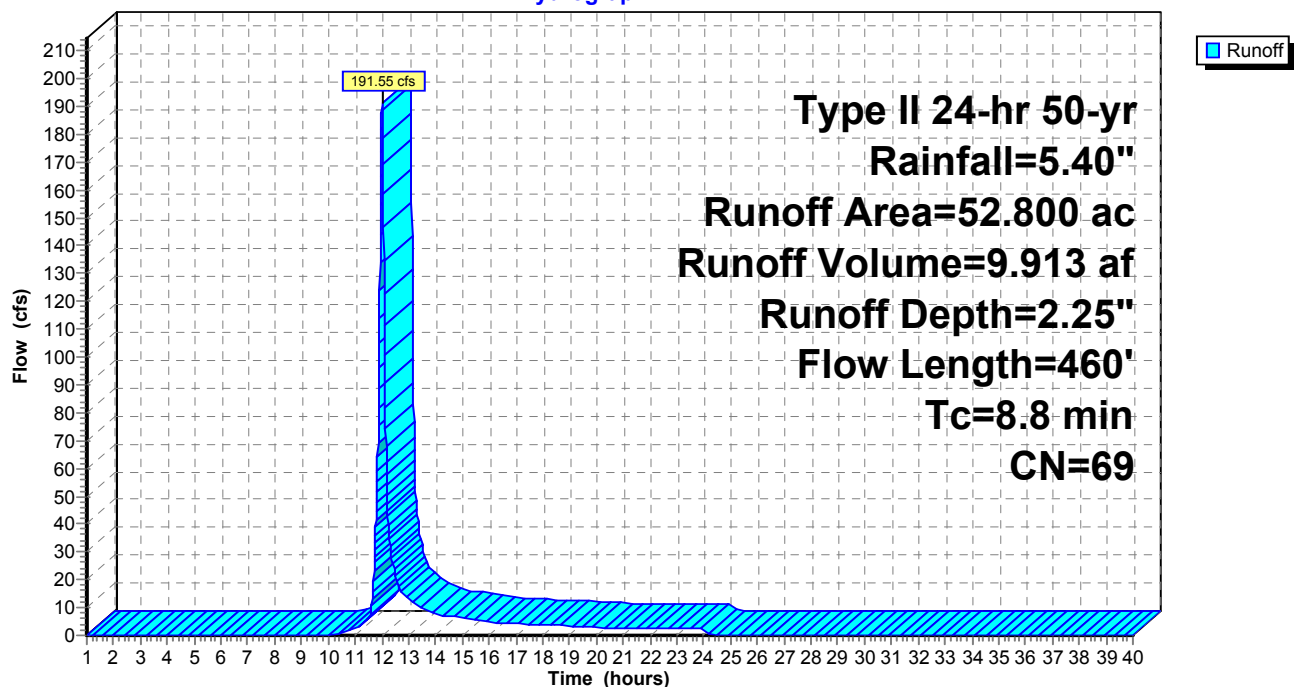
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
52.800	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	460	0.0700	0.9		Lag/CN Method,

Subcatchment W58: W58

Hydrograph



Subcatchment W59: W59

Runoff = 83.21 cfs @ 11.98 hrs, Volume= 4.199 af, Depth= 3.64"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

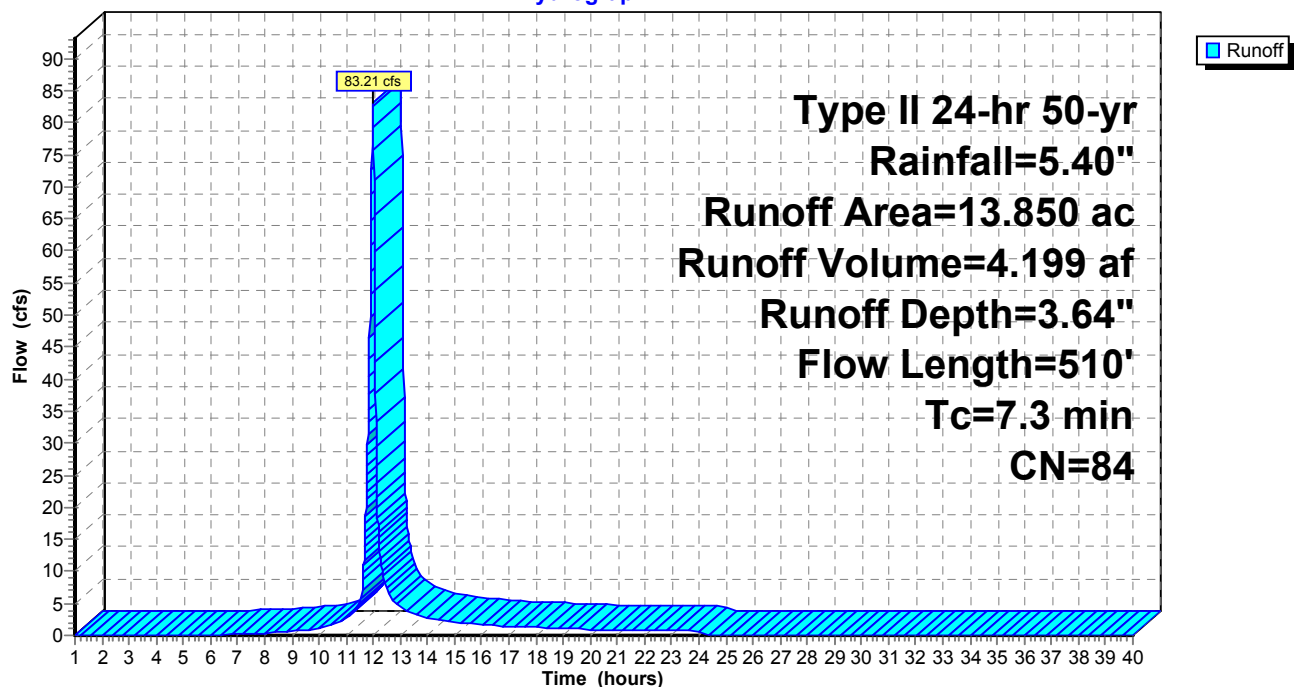
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
13.850	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	510	0.0500	1.2		Lag/CN Method,

Subcatchment W59: W59

Hydrograph



Subcatchment W60: W60

Runoff = 13.86 cfs @ 12.02 hrs, Volume= 0.777 af, Depth= 3.44"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

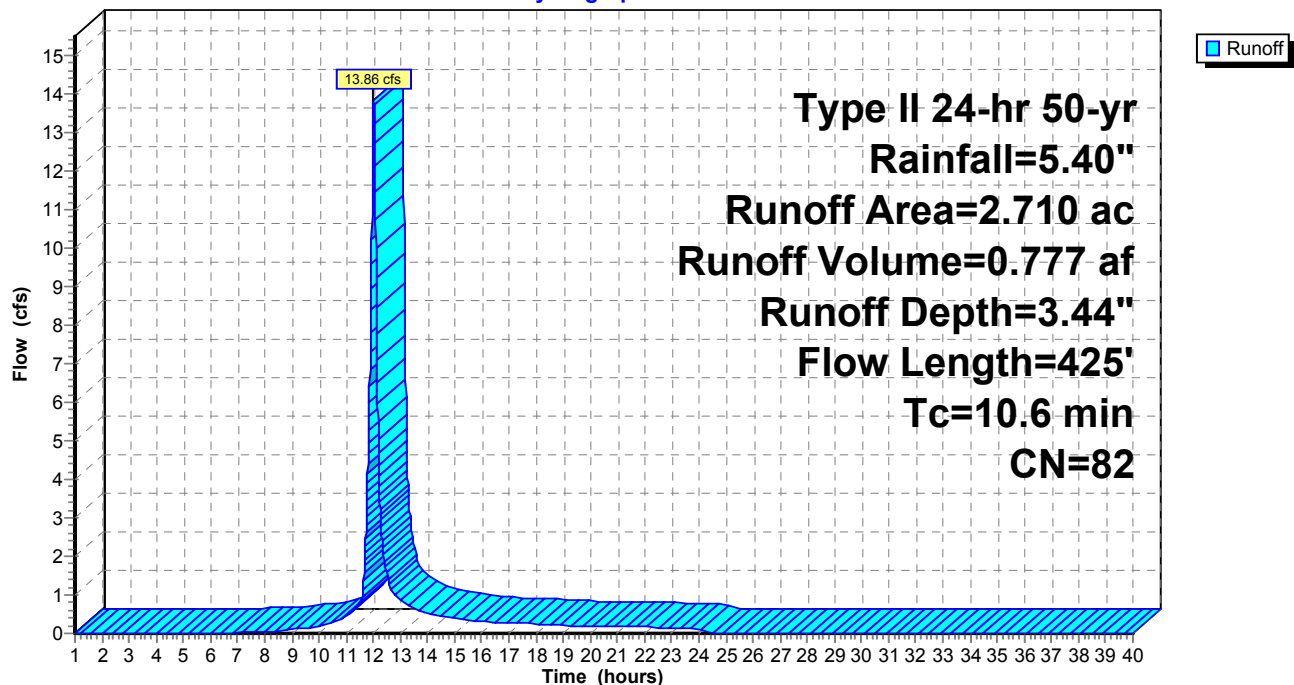
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
2.710	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	425	0.0200	0.7		Lag/CN Method,

Subcatchment W60: W60

Hydrograph



Subcatchment W61: W61

Runoff = 31.52 cfs @ 12.09 hrs, Volume= 2.150 af, Depth= 2.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

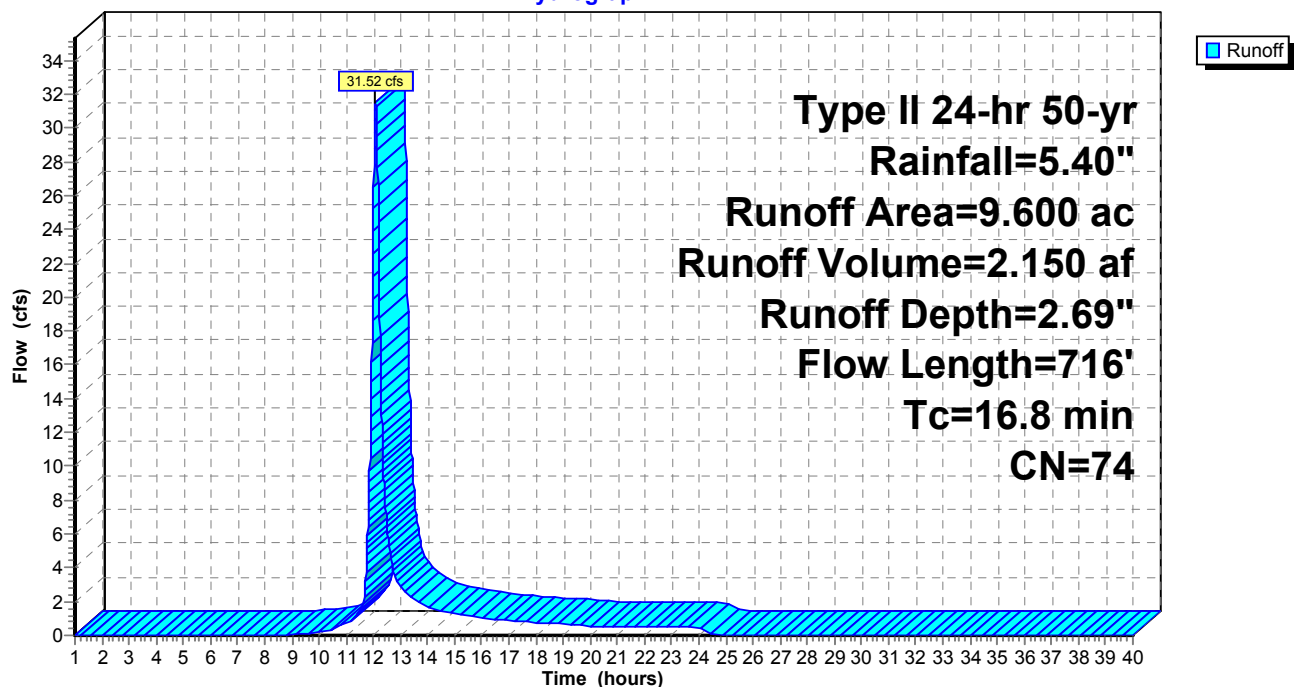
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.600	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	716	0.0300	0.7		Lag/CN Method,

Subcatchment W61: W61

Hydrograph



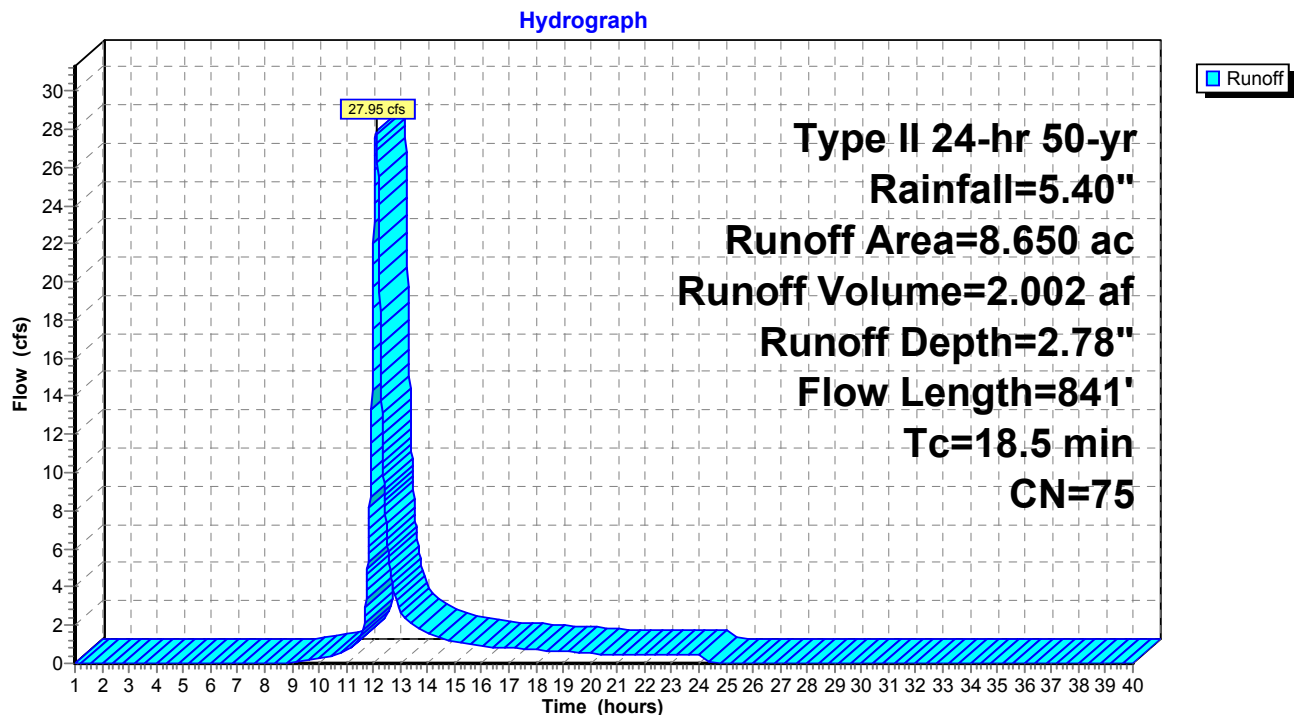
Subcatchment W62: W62

Runoff = 27.95 cfs @ 12.11 hrs, Volume= 2.002 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.650	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.5	841	0.0300	0.8		Lag/CN Method,

Subcatchment W62: W62

Subcatchment W63: W63

Runoff = 21.74 cfs @ 11.94 hrs, Volume= 0.908 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

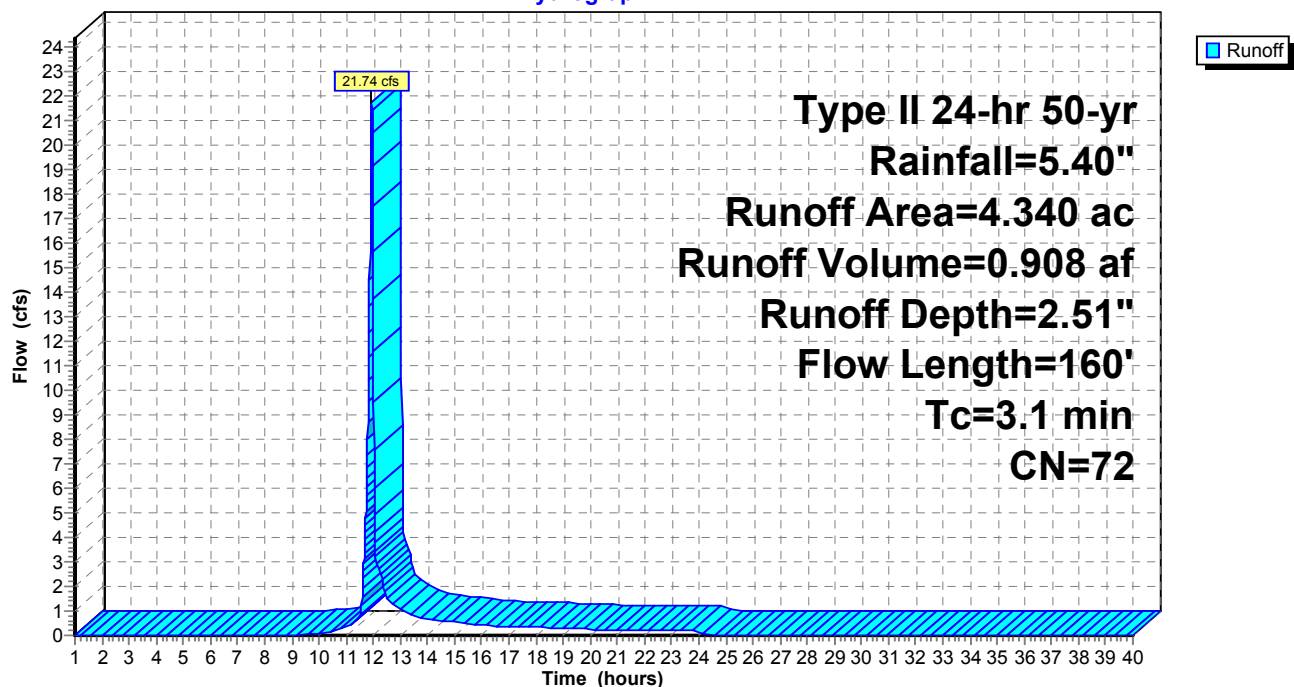
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.340	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	160	0.0900	0.9		Lag/CN Method,

Subcatchment W63: W63

Hydrograph



Subcatchment W64: W64

Runoff = 46.93 cfs @ 12.13 hrs, Volume= 3.662 af, Depth= 4.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

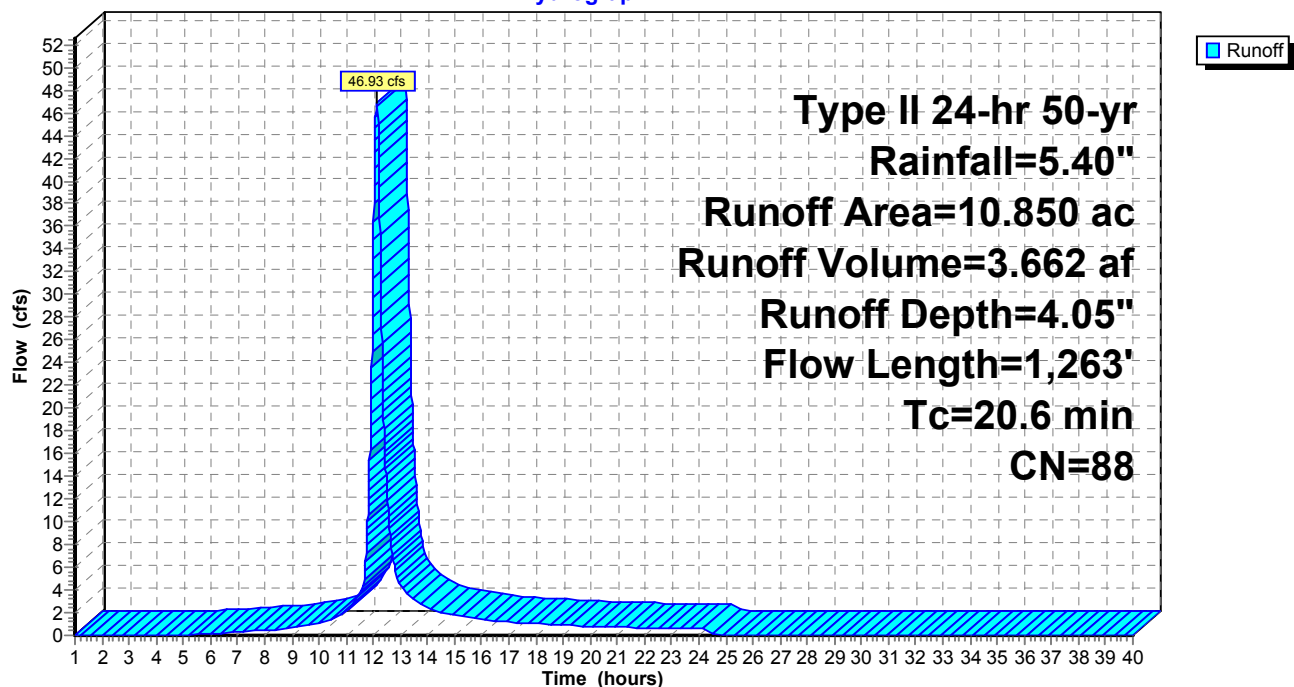
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
10.850	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,263	0.0200	1.0		Lag/CN Method,

Subcatchment W64: W64

Hydrograph



Subcatchment W65: W65

Runoff = 64.21 cfs @ 12.19 hrs, Volume= 5.488 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

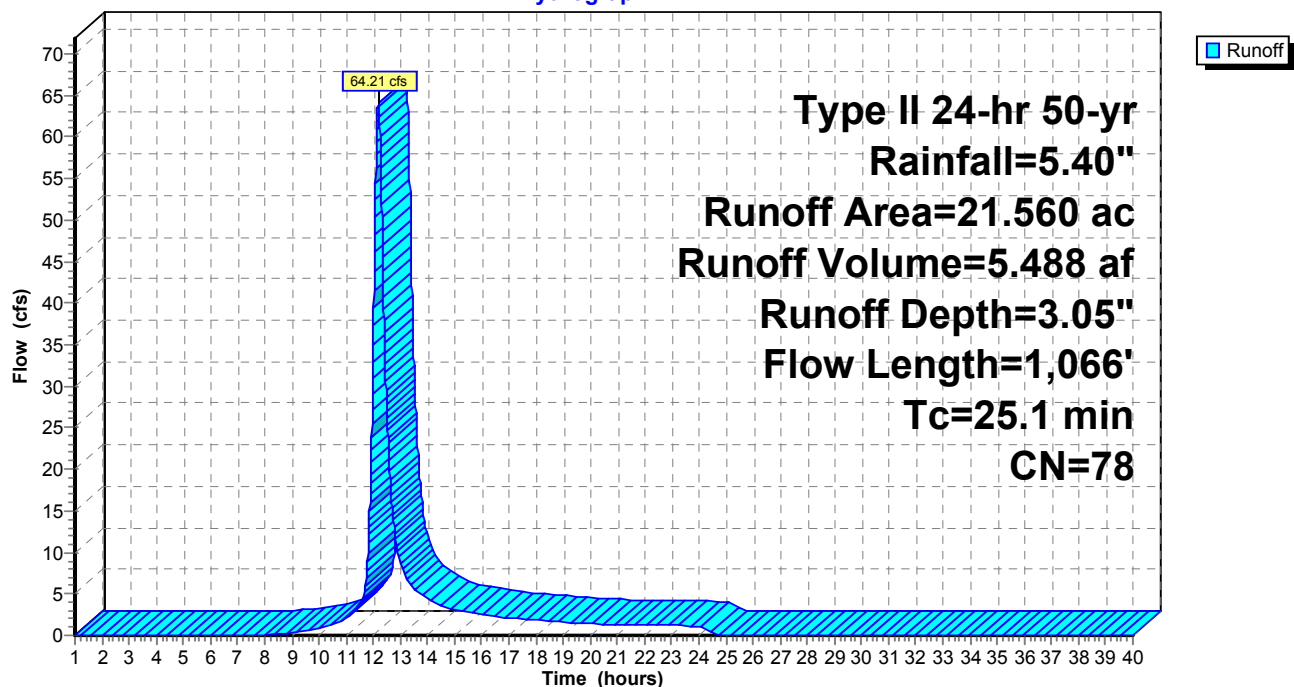
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
21.560	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,066	0.0200	0.7		Lag/CN Method,

Subcatchment W65: W65

Hydrograph



Subcatchment W66: W66

Runoff = 122.38 cfs @ 11.98 hrs, Volume= 5.912 af, Depth= 2.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

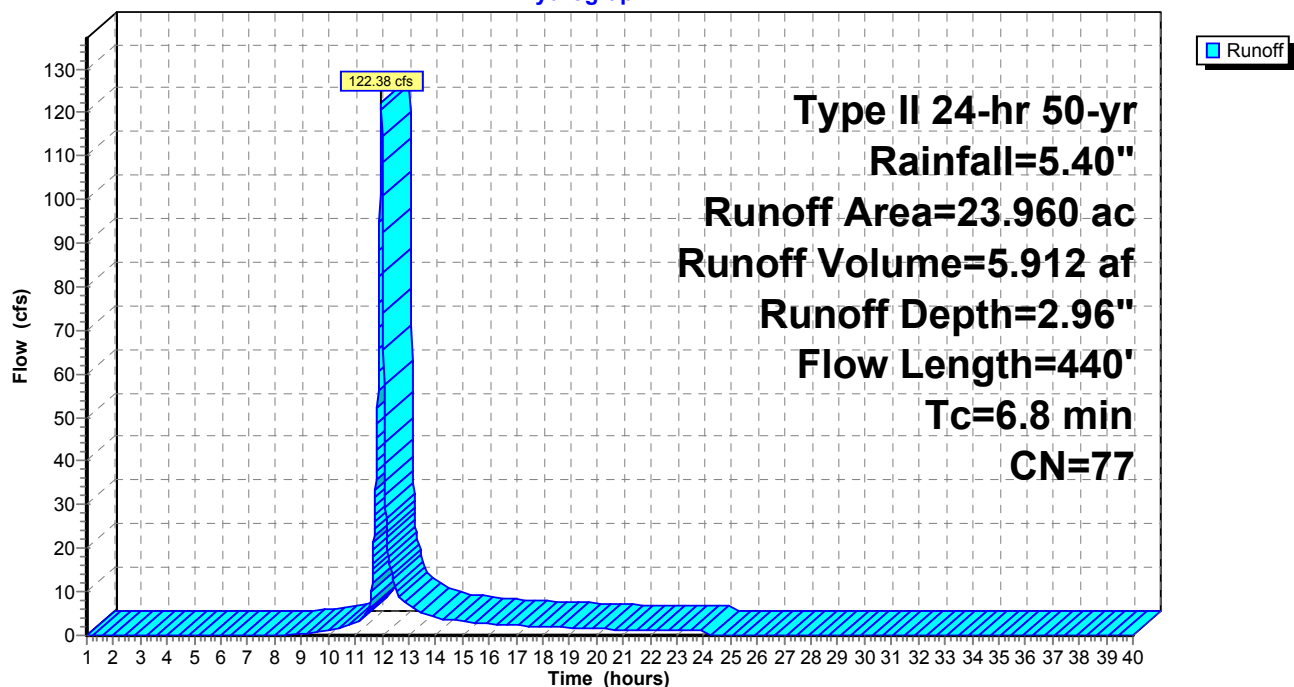
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
23.960	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	440	0.0700	1.1		Lag/CN Method,

Subcatchment W66: W66

Hydrograph



Subcatchment W67: W67

Runoff = 118.41 cfs @ 12.30 hrs, Volume= 12.657 af, Depth= 4.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

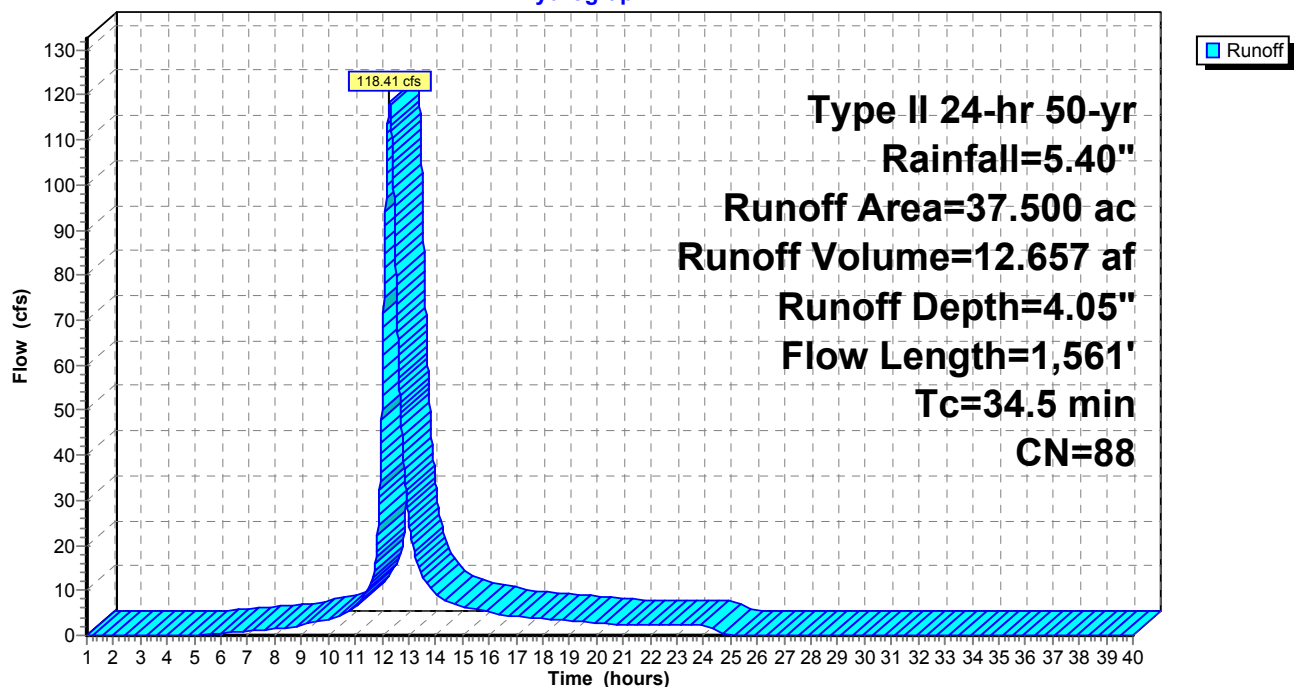
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
37.500	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.5	1,561	0.0100	0.8		Lag/CN Method,

Subcatchment W67: W67

Hydrograph



Subcatchment W68: W68

Runoff = 196.81 cfs @ 12.08 hrs, Volume= 12.797 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

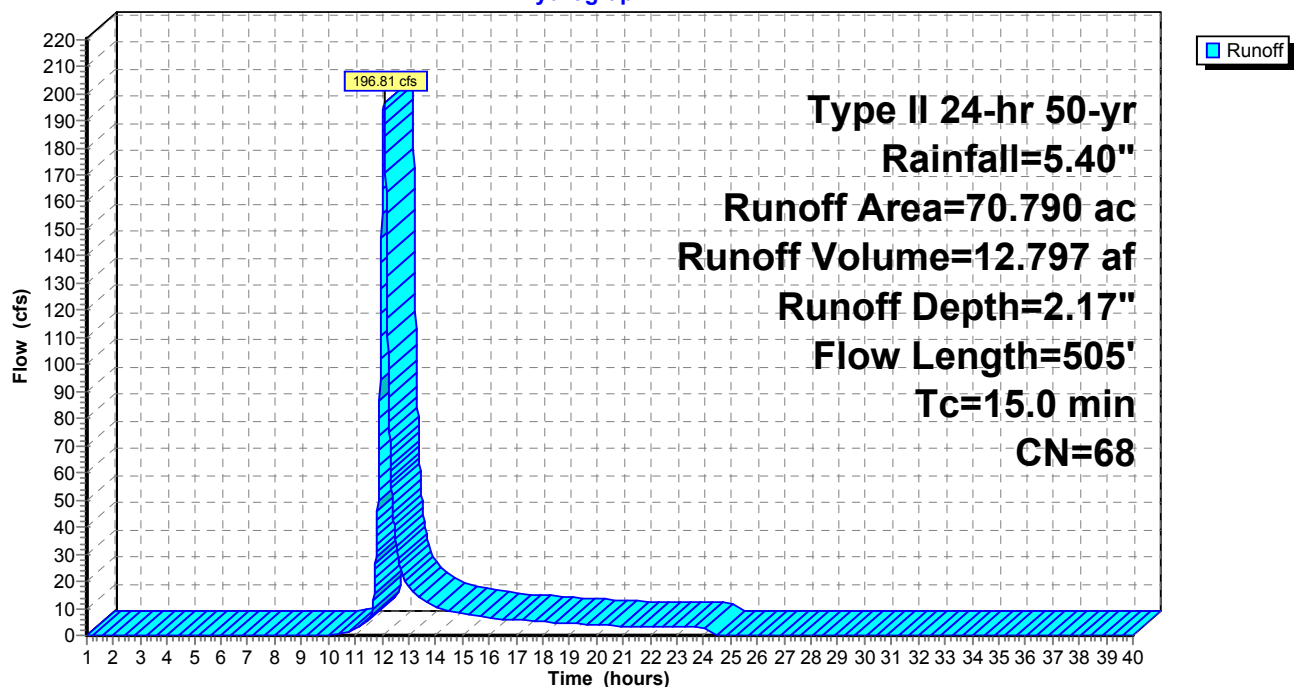
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
70.790	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	505	0.0300	0.6		Lag/CN Method,

Subcatchment W68: W68

Hydrograph



Subcatchment W69: W69

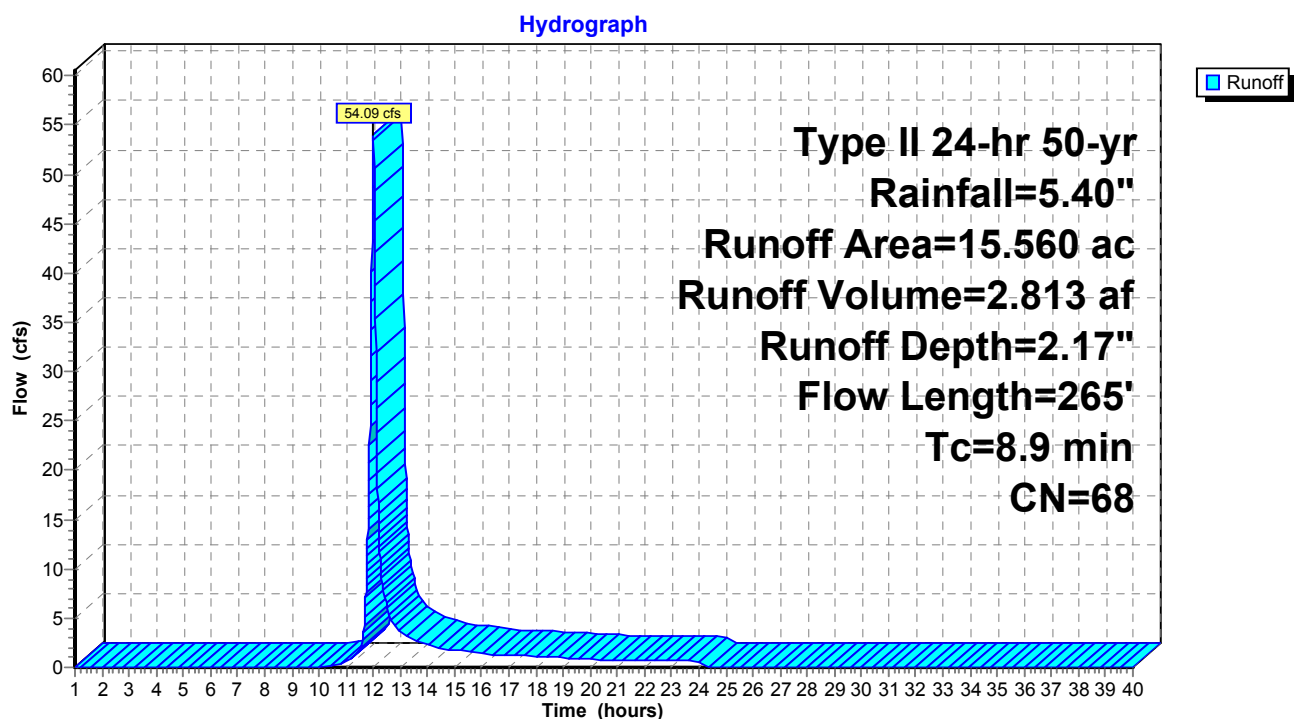
Runoff = 54.09 cfs @ 12.01 hrs, Volume= 2.813 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
15.560	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	265	0.0300	0.5		Lag/CN Method,

Subcatchment W69: W69

Subcatchment W70: W70

Runoff = 57.24 cfs @ 14.36 hrs, Volume= 21.952 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

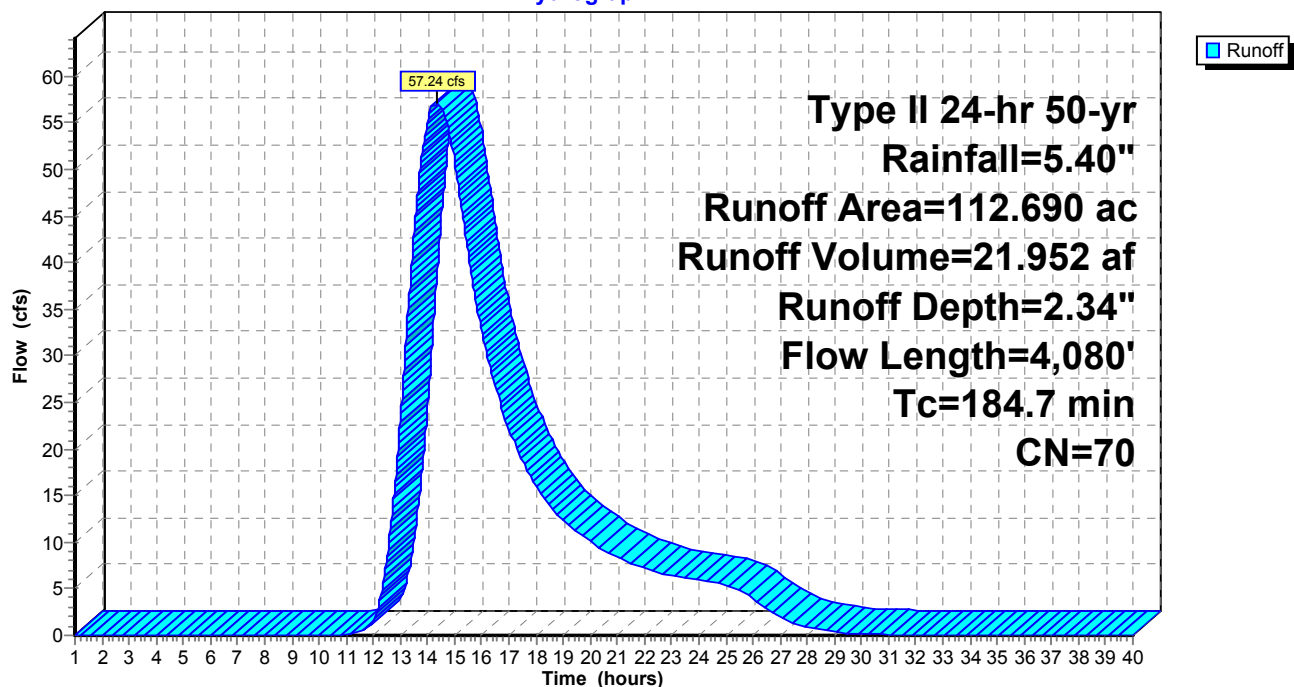
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
112.690	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
184.7	4,080	0.0050	0.4		Lag/CN Method,

Subcatchment W70: W70

Hydrograph



Subcatchment W71: W71

Runoff = 37.05 cfs @ 12.82 hrs, Volume= 6.781 af, Depth= 2.34"

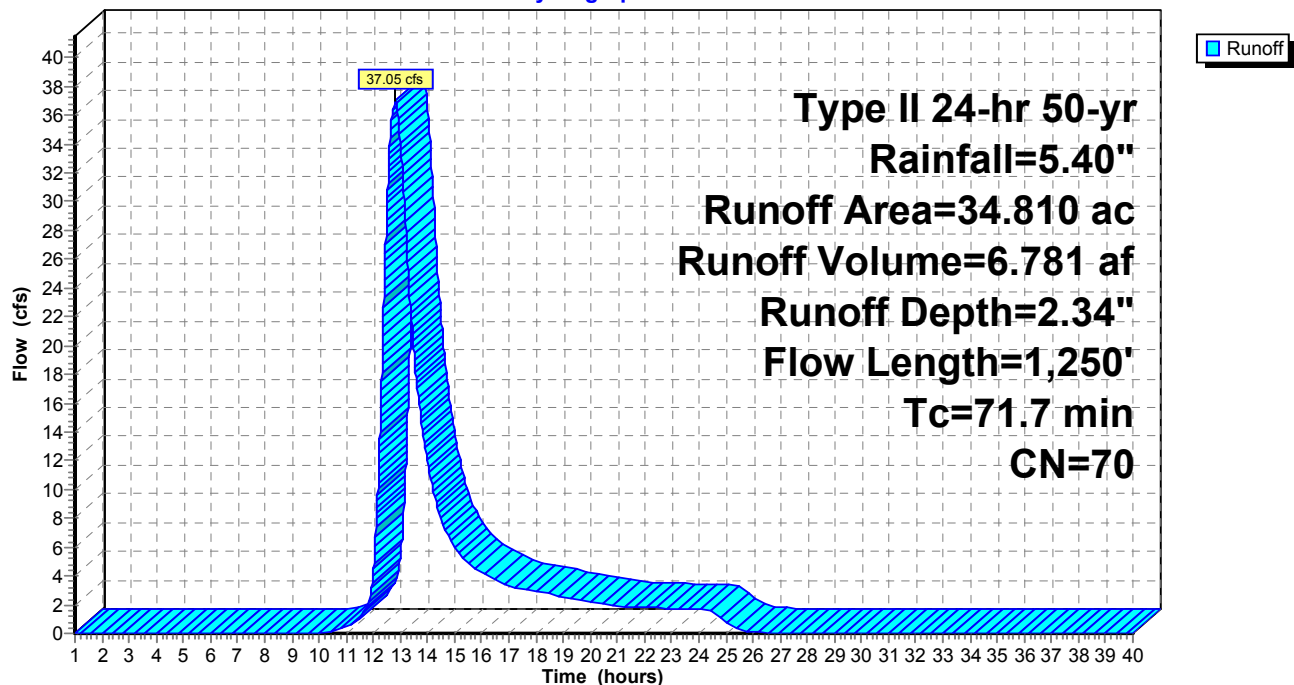
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
34.810	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.7	1,250	0.0050	0.3		Lag/CN Method,

Subcatchment W71: W71

Hydrograph



Subcatchment W72: W72

Runoff = 44.45 cfs @ 12.15 hrs, Volume= 3.559 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

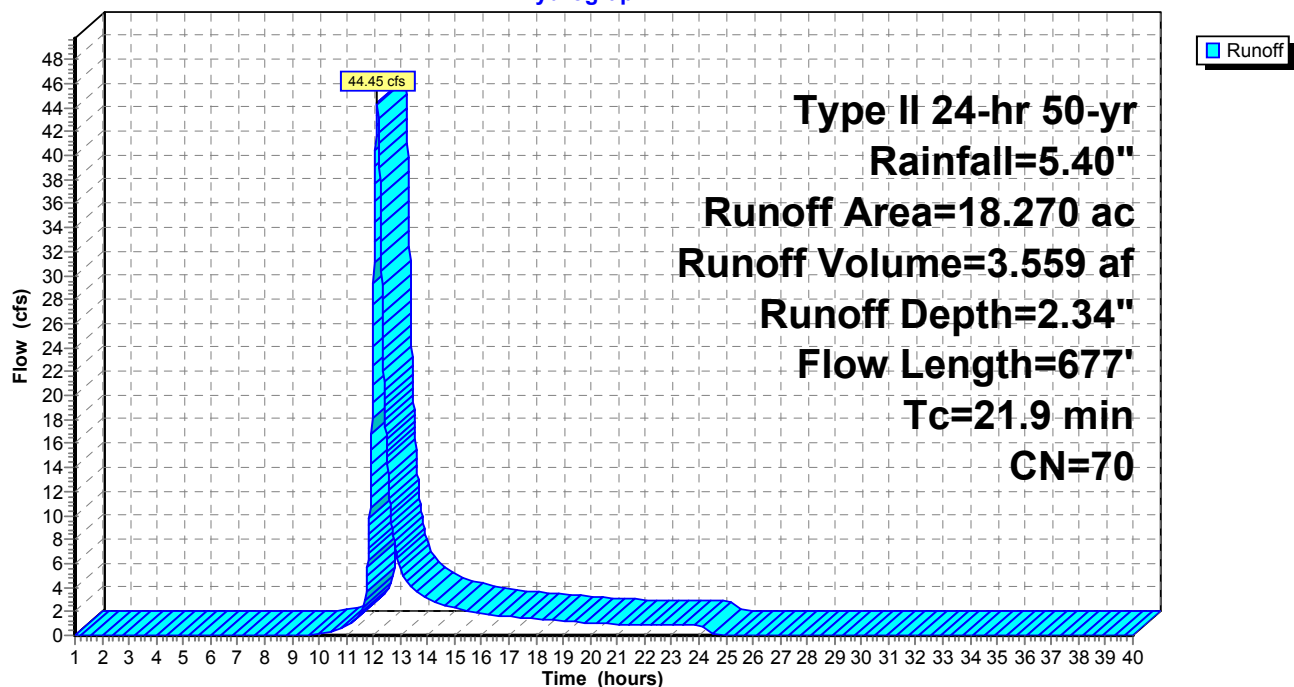
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.270	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	677	0.0200	0.5		Lag/CN Method,

Subcatchment W72: W72

Hydrograph



Subcatchment W73: W73

Runoff = 33.52 cfs @ 12.62 hrs, Volume= 5.340 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

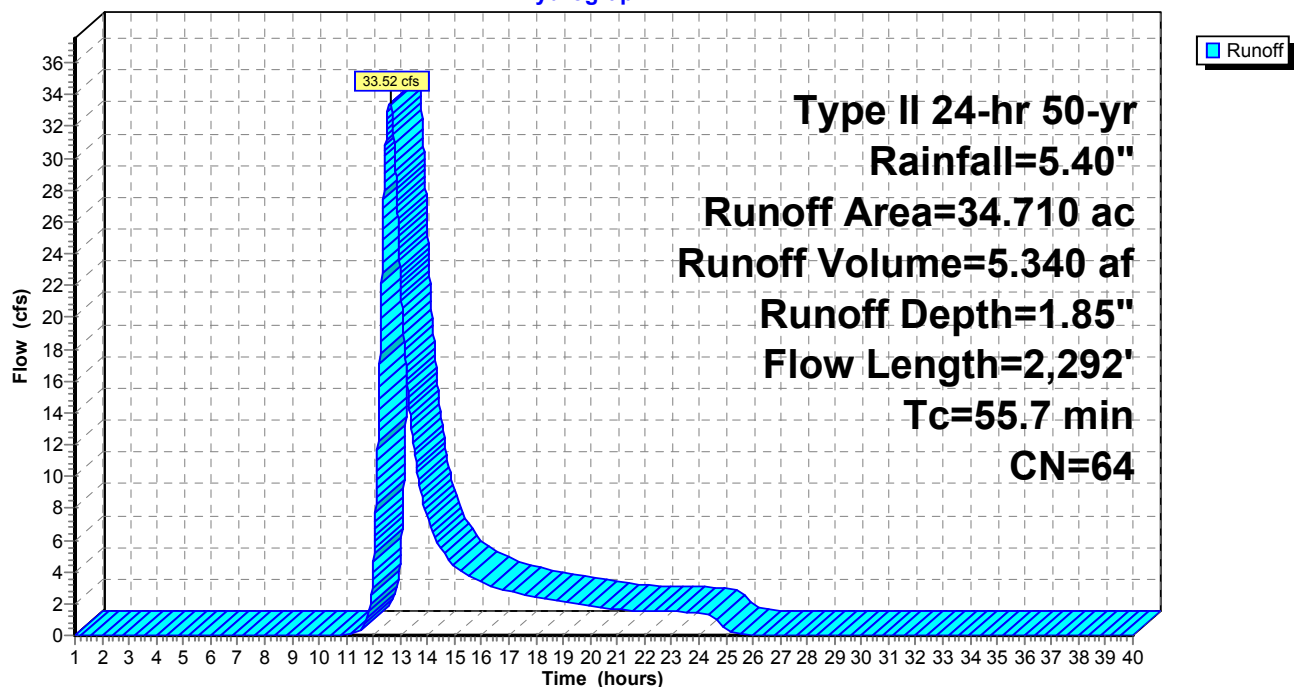
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
34.710	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.7	2,292	0.0300	0.7		Lag/CN Method,

Subcatchment W73: W73

Hydrograph



Subcatchment W74: W74

Runoff = 15.25 cfs @ 12.02 hrs, Volume= 0.828 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

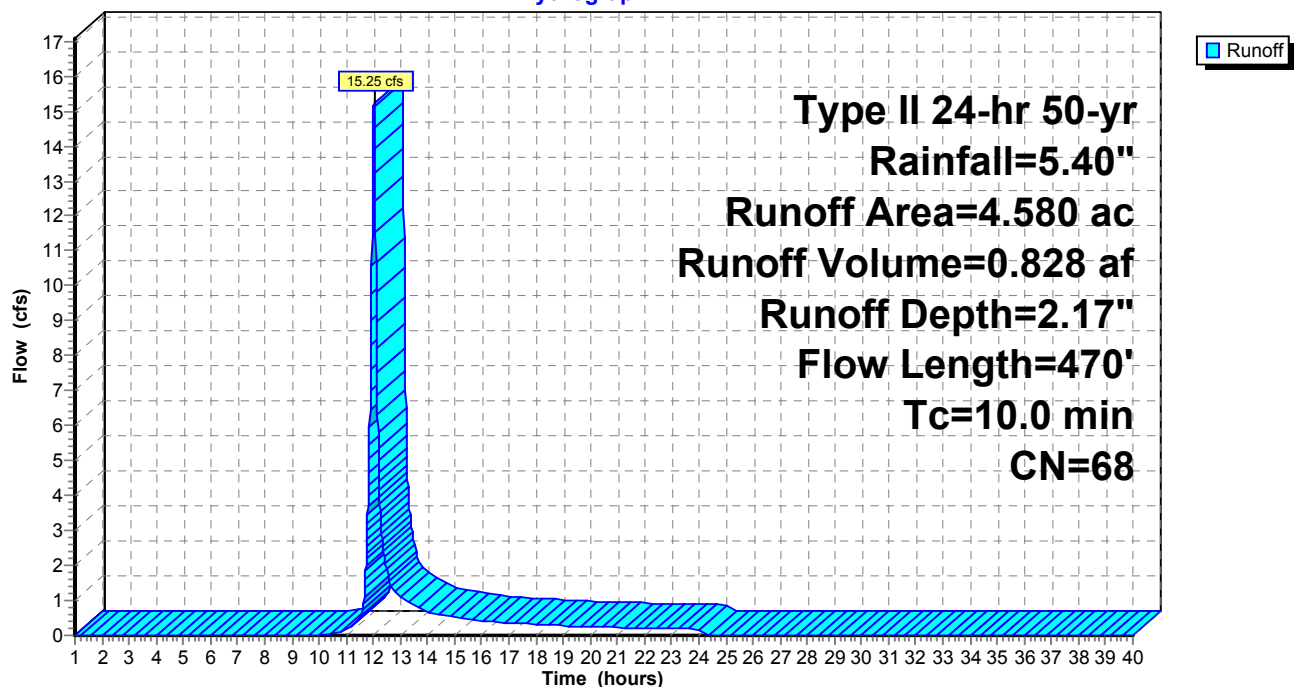
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
4.580	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	470	0.0600	0.8		Lag/CN Method,

Subcatchment W74: W74

Hydrograph



Subcatchment W75: W75

Runoff = 139.80 cfs @ 12.09 hrs, Volume= 9.462 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

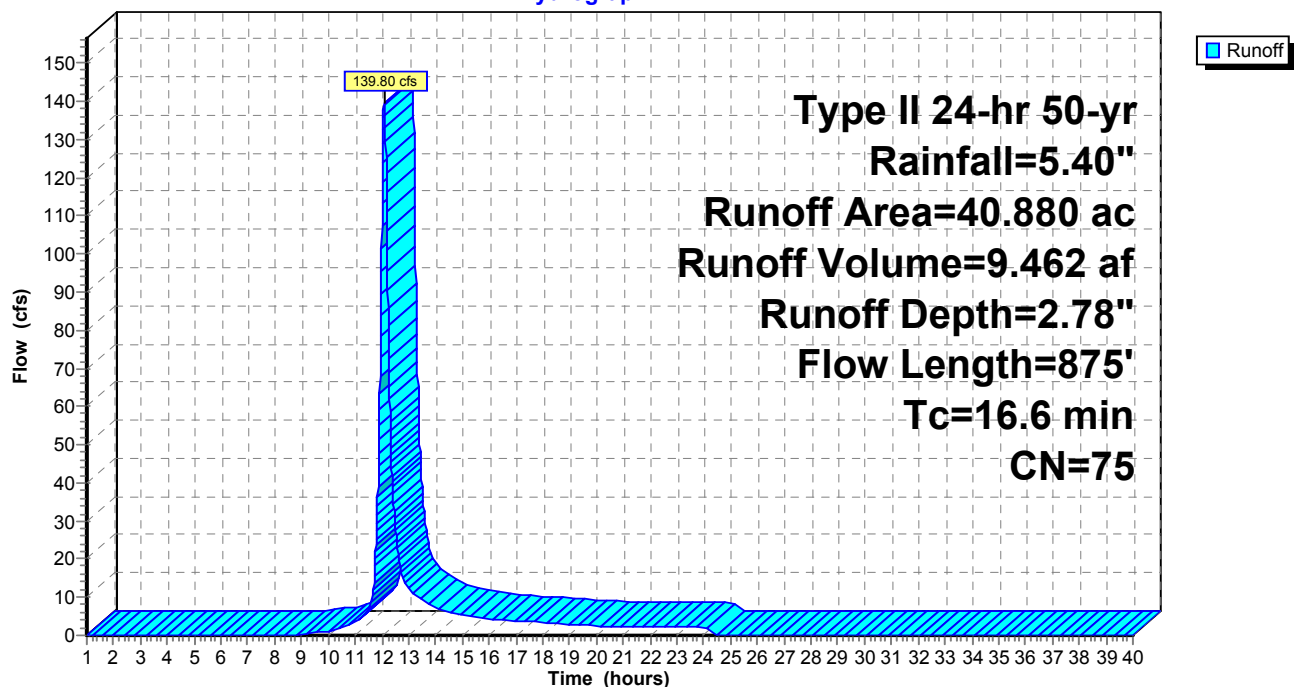
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
40.880	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	875	0.0400	0.9		Lag/CN Method,

Subcatchment W75: W75

Hydrograph



Subcatchment W76: W76

Runoff = 86.60 cfs @ 12.39 hrs, Volume= 10.269 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

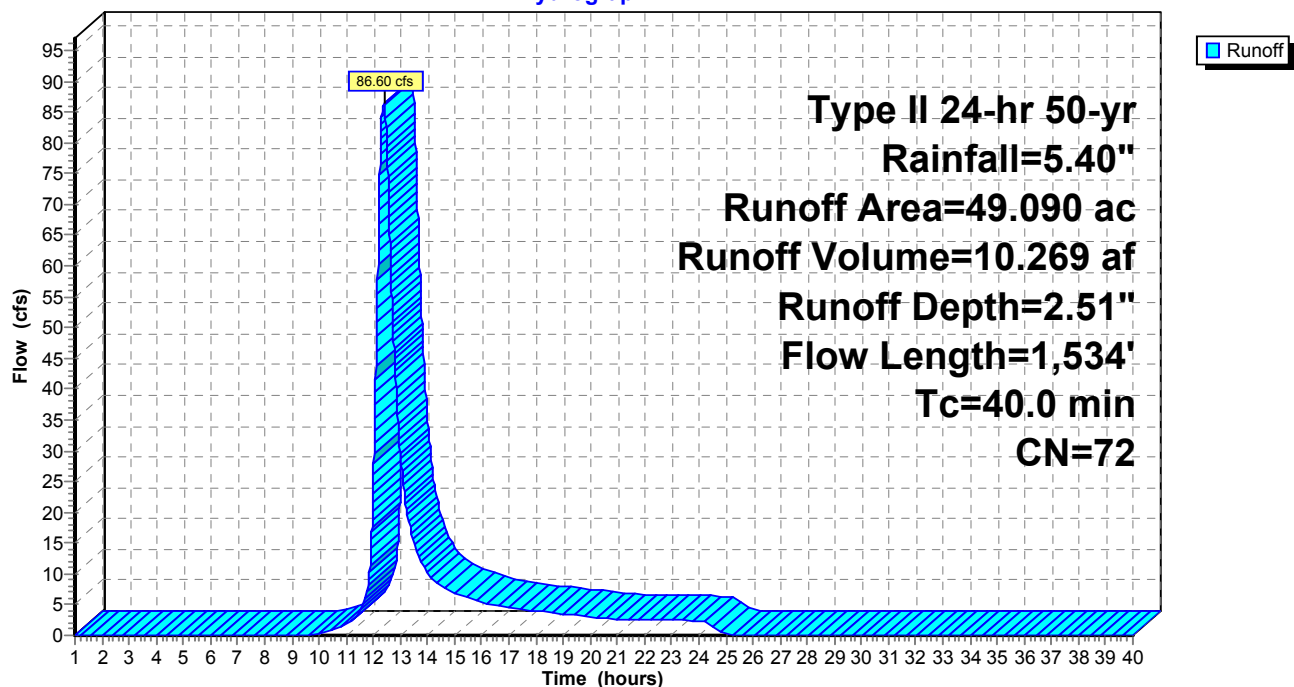
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
49.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.0	1,534	0.0200	0.6		Lag/CN Method,

Subcatchment W76: W76

Hydrograph



Subcatchment W77: W77

Runoff = 279.80 cfs @ 12.01 hrs, Volume= 14.878 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

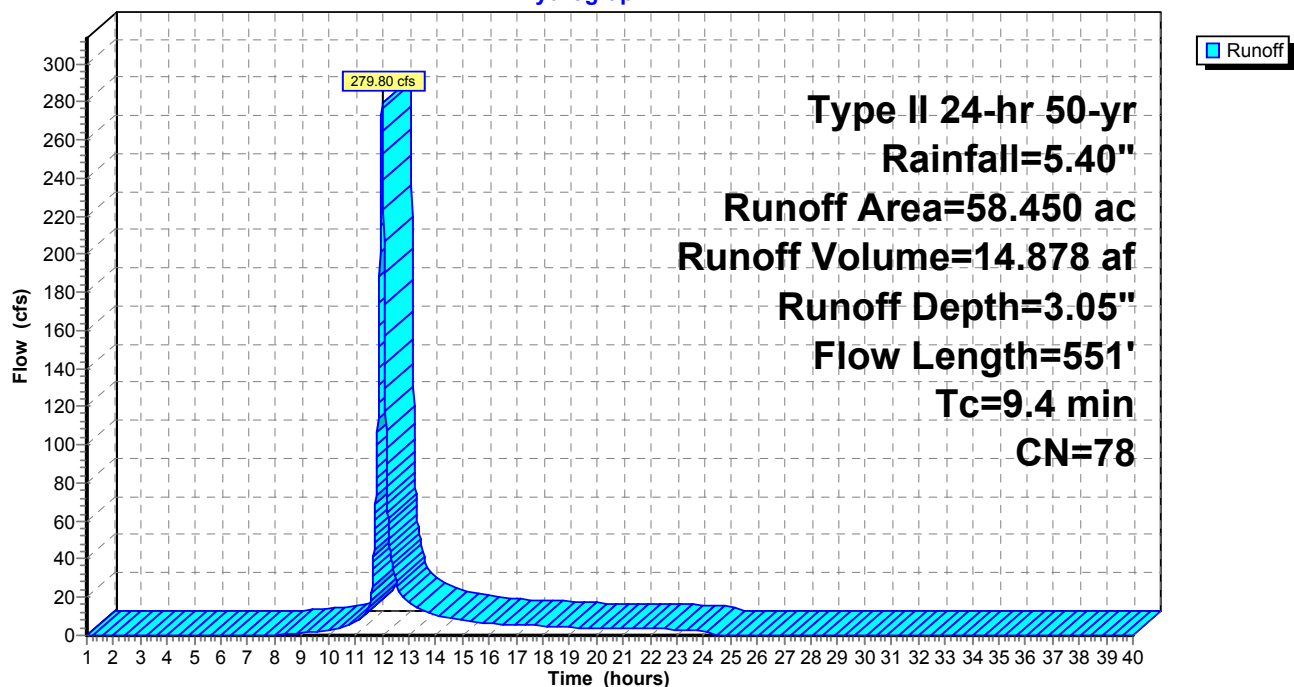
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
58.450	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	551	0.0500	1.0		Lag/CN Method,

Subcatchment W77: W77

Hydrograph



Subcatchment W79: W79

Runoff = 48.85 cfs @ 12.60 hrs, Volume= 7.381 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

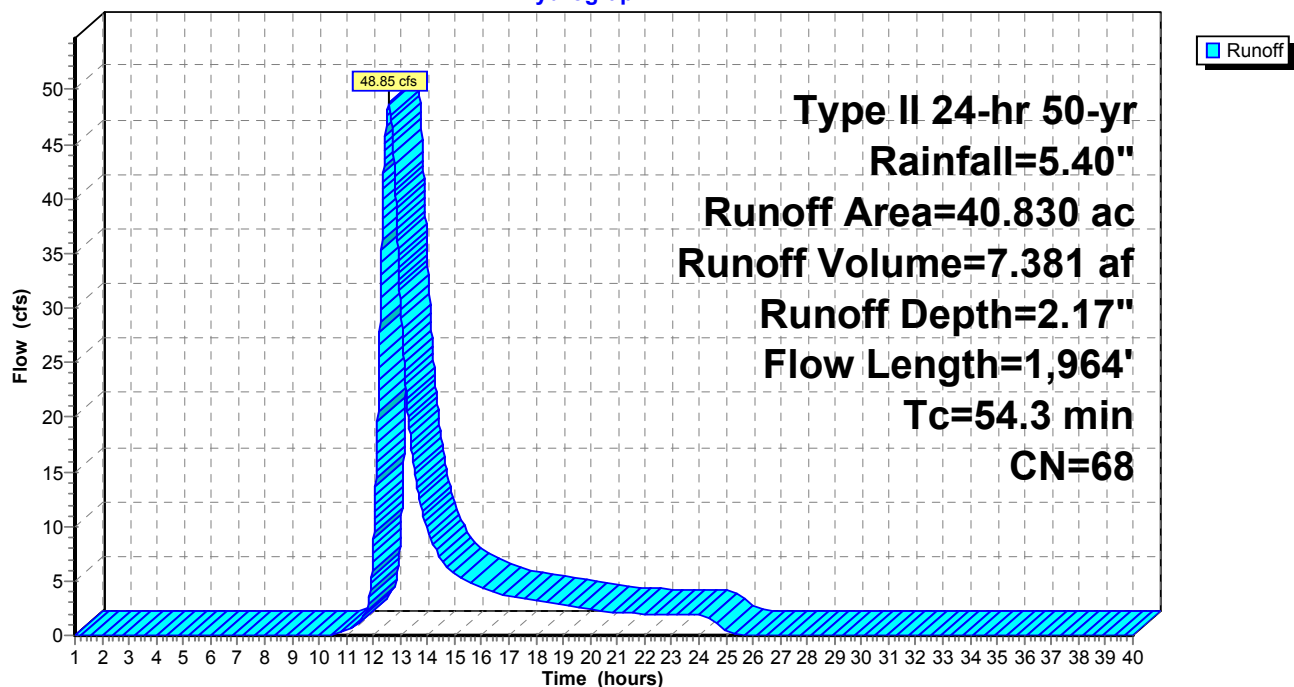
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
40.830	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.3	1,964	0.0200	0.6		Lag/CN Method,

Subcatchment W79: W79

Hydrograph



Subcatchment W80: W80

Runoff = 153.10 cfs @ 12.32 hrs, Volume= 16.339 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

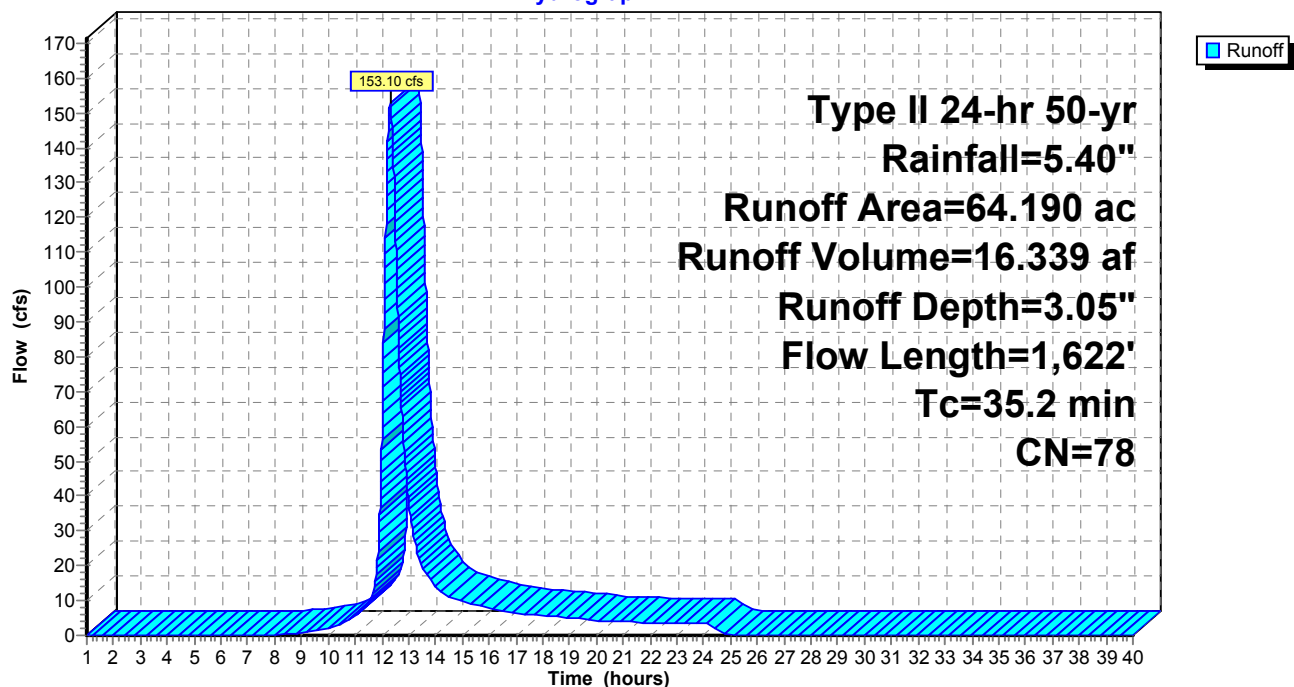
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
64.190	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.2	1,622	0.0200	0.8		Lag/CN Method,

Subcatchment W80: W80

Hydrograph



Subcatchment W81: W81

Runoff = 70.51 cfs @ 11.96 hrs, Volume= 3.541 af, Depth= 4.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

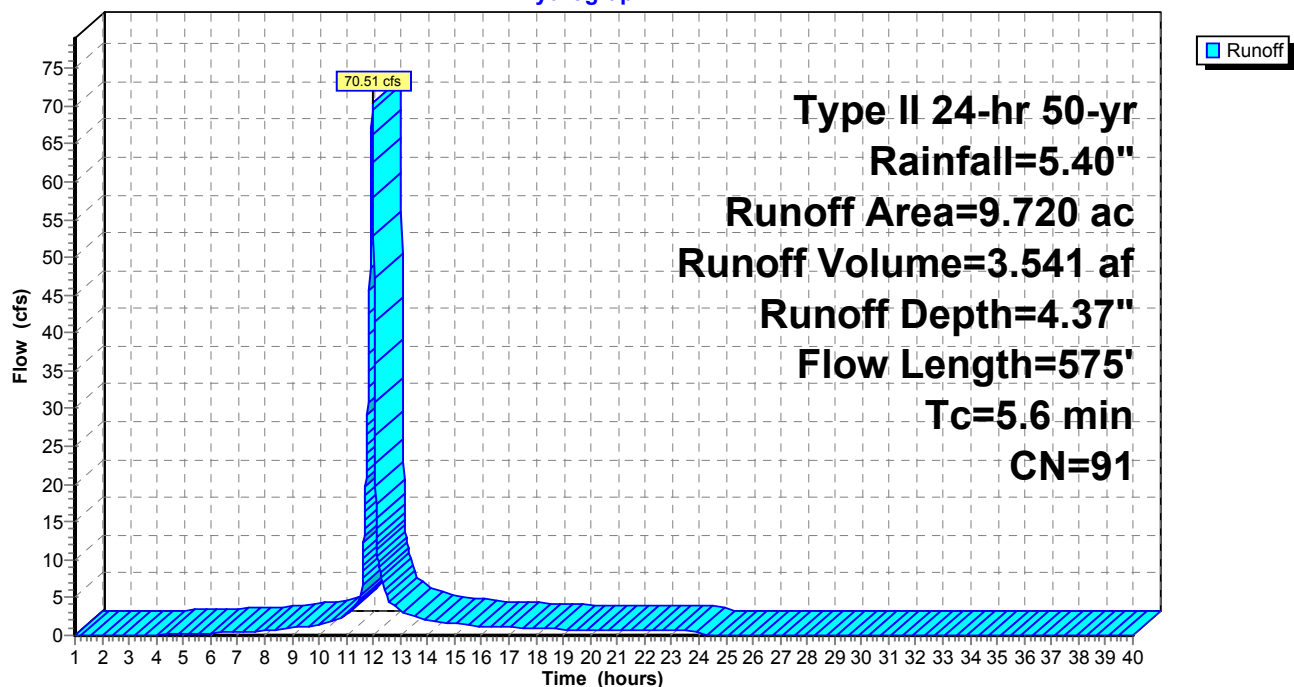
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.720	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	575	0.0600	1.7		Lag/CN Method,

Subcatchment W81: W81

Hydrograph



Subcatchment W82: W82

Runoff = 69.84 cfs @ 12.06 hrs, Volume= 4.314 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

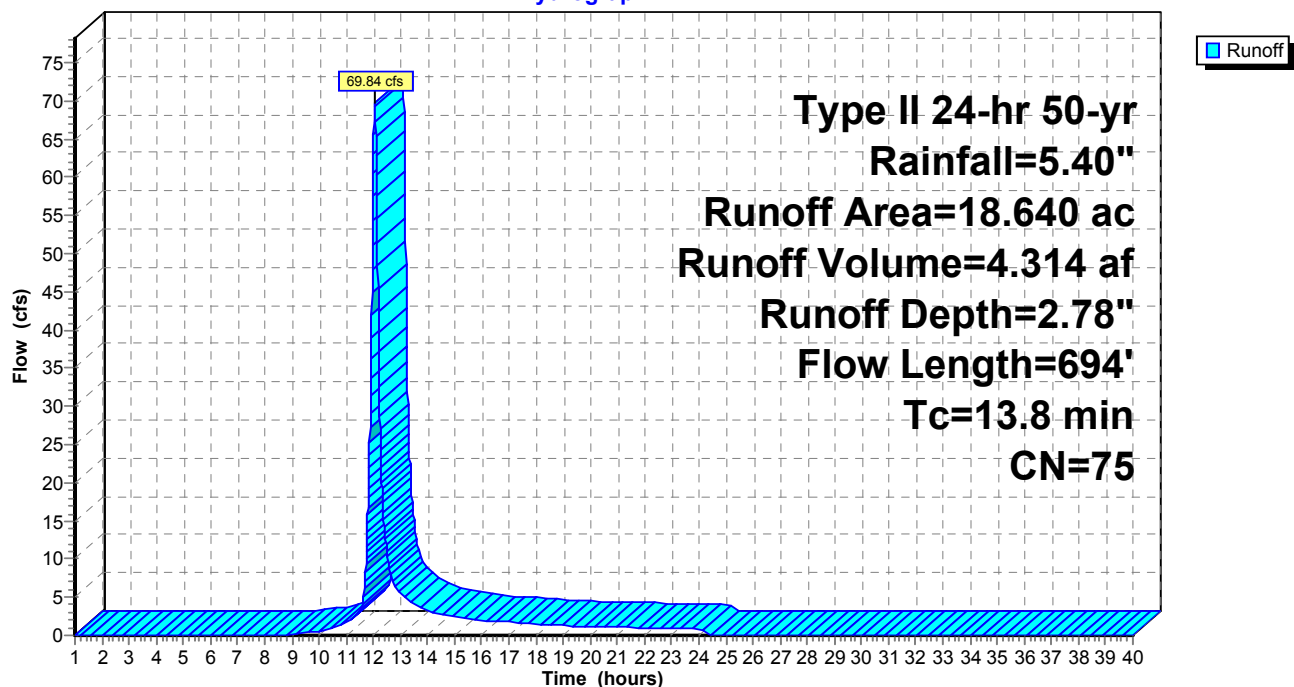
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.640	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	694	0.0400	0.8		Lag/CN Method,

Subcatchment W82: W82

Hydrograph



Subcatchment W83: W83

Runoff = 17.10 cfs @ 12.25 hrs, Volume= 1.733 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

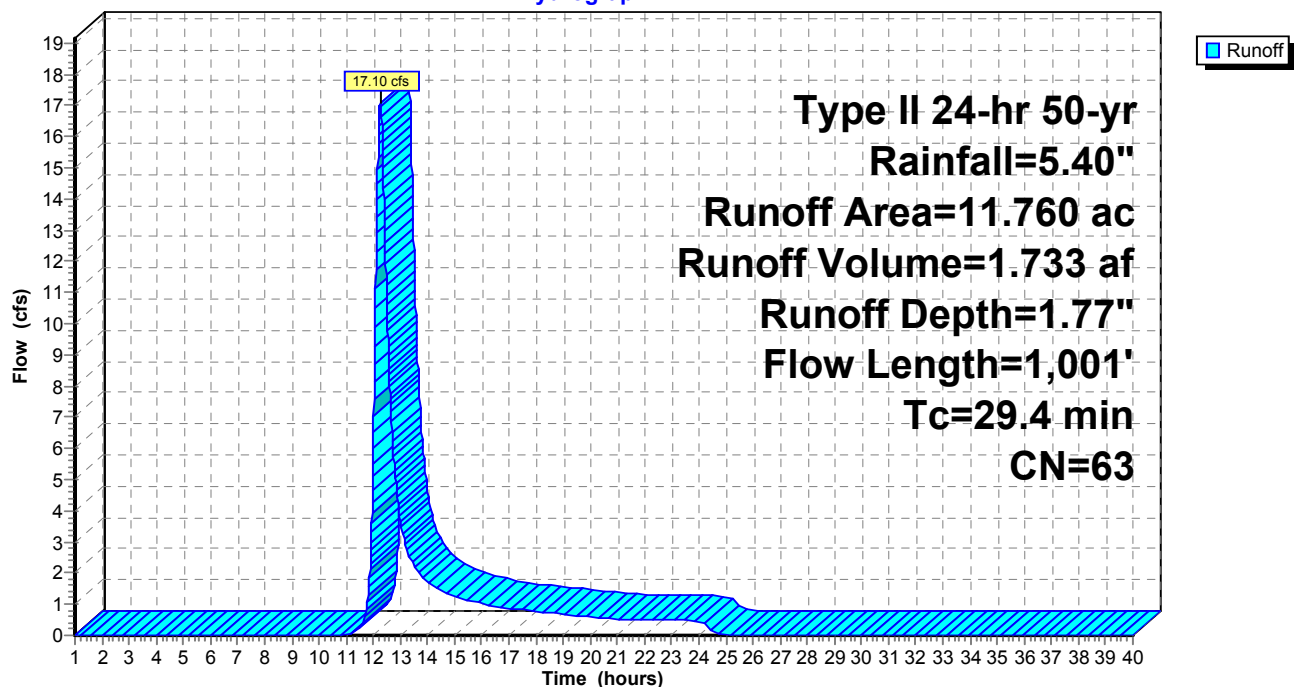
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
11.760	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,001	0.0300	0.6		Lag/CN Method,

Subcatchment W83: W83

Hydrograph



Subcatchment W84: W84

Runoff = 57.52 cfs @ 12.12 hrs, Volume= 4.296 af, Depth= 3.15"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

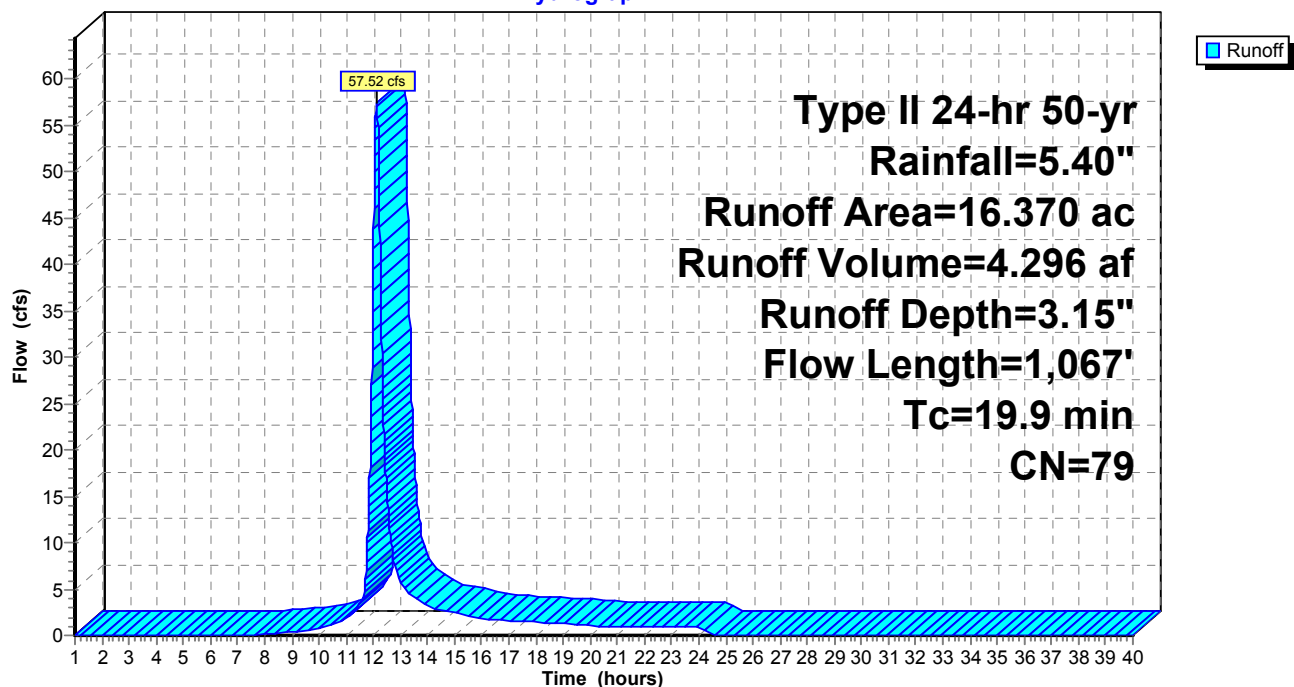
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
16.370	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,067	0.0300	0.9		Lag/CN Method,

Subcatchment W84: W84

Hydrograph



Subcatchment W85: W85

Runoff = 37.50 cfs @ 11.99 hrs, Volume= 2.051 af, Depth= 4.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

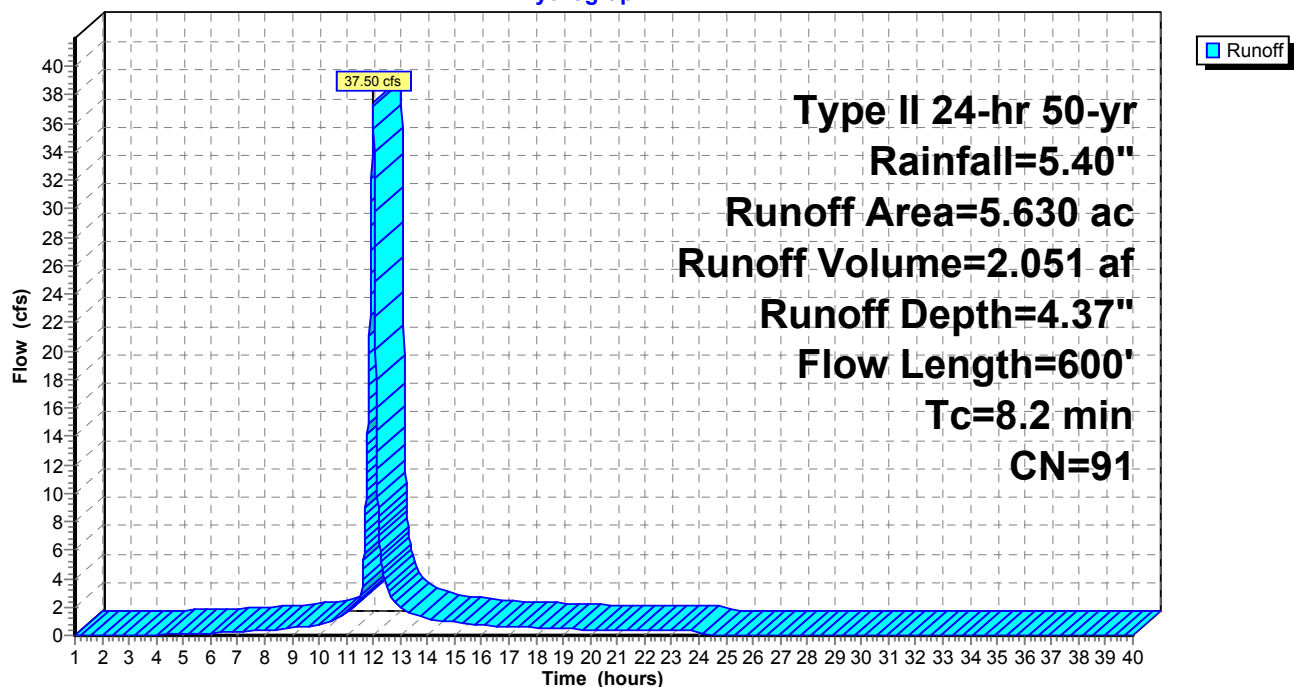
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
5.630	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	600	0.0300	1.2		Lag/CN Method,

Subcatchment W85: W85

Hydrograph



Subcatchment W86: W86

Runoff = 9.06 cfs @ 12.18 hrs, Volume= 1.066 af, Depth= 0.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

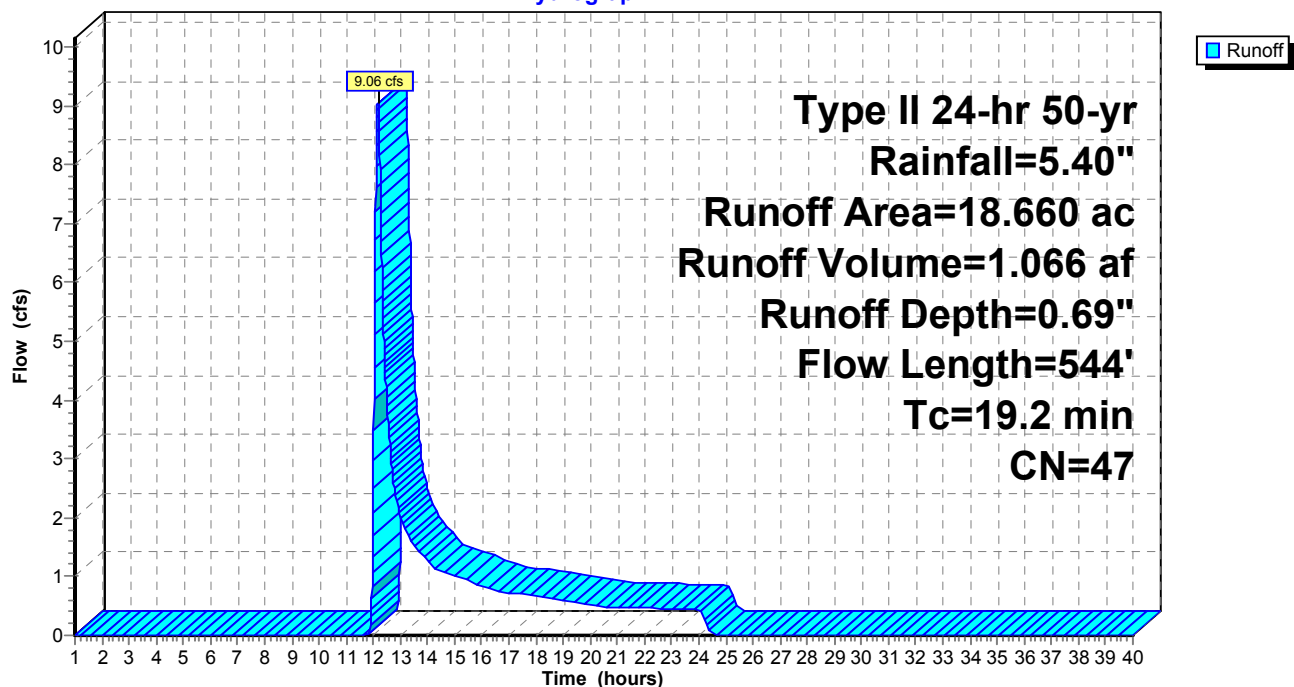
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
18.660	47	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	544	0.0600	0.5		Lag/CN Method,

Subcatchment W86: W86

Hydrograph



Subcatchment W87: W87

Runoff = 8.91 cfs @ 12.13 hrs, Volume= 0.720 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

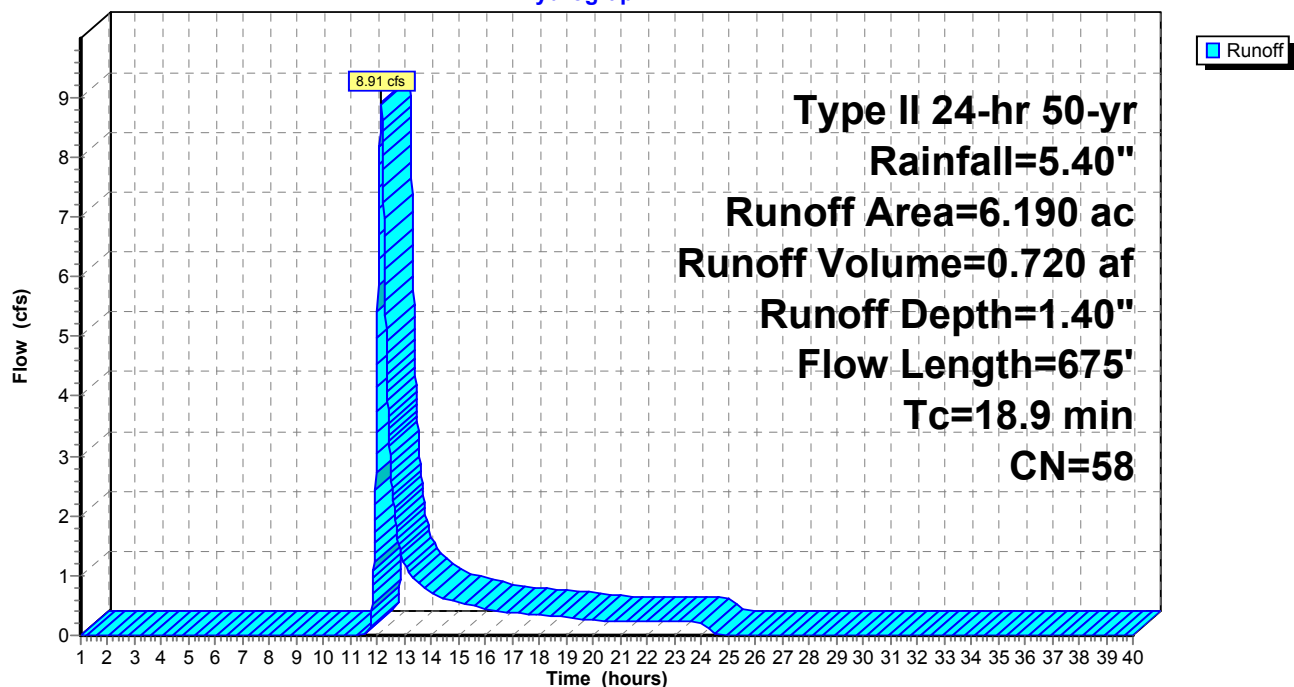
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
6.190	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.9	675	0.0500	0.6		Lag/CN Method,

Subcatchment W87: W87

Hydrograph



Subcatchment W88: W88

Runoff = 23.40 cfs @ 12.14 hrs, Volume= 2.009 af, Depth= 1.19"

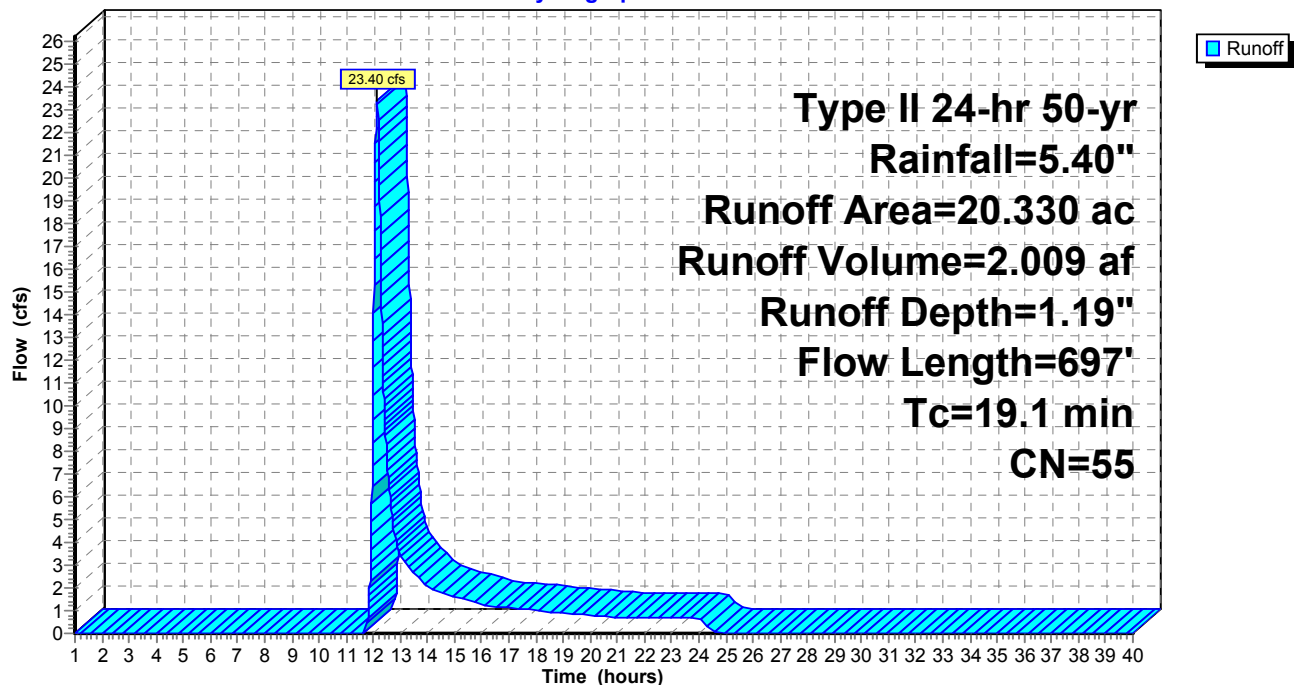
Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
20.330	55	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	697	0.0600	0.6		Lag/CN Method,

Subcatchment W88: W88

Hydrograph



Subcatchment W89: W89

Runoff = 93.41 cfs @ 12.50 hrs, Volume= 12.915 af, Depth= 2.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

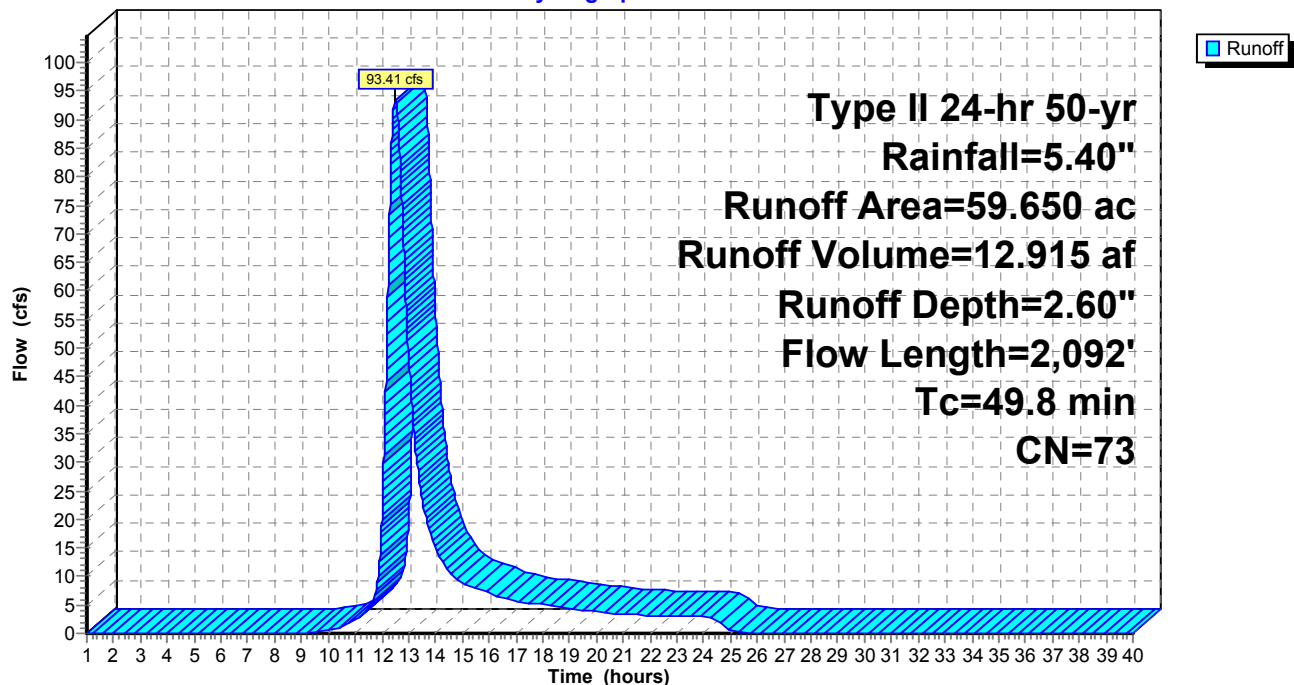
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
59.650	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	2,092	0.0200	0.7		Lag/CN Method,

Subcatchment W89: W89

Hydrograph



Subcatchment W90: W90

Runoff = 70.70 cfs @ 13.27 hrs, Volume= 17.115 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

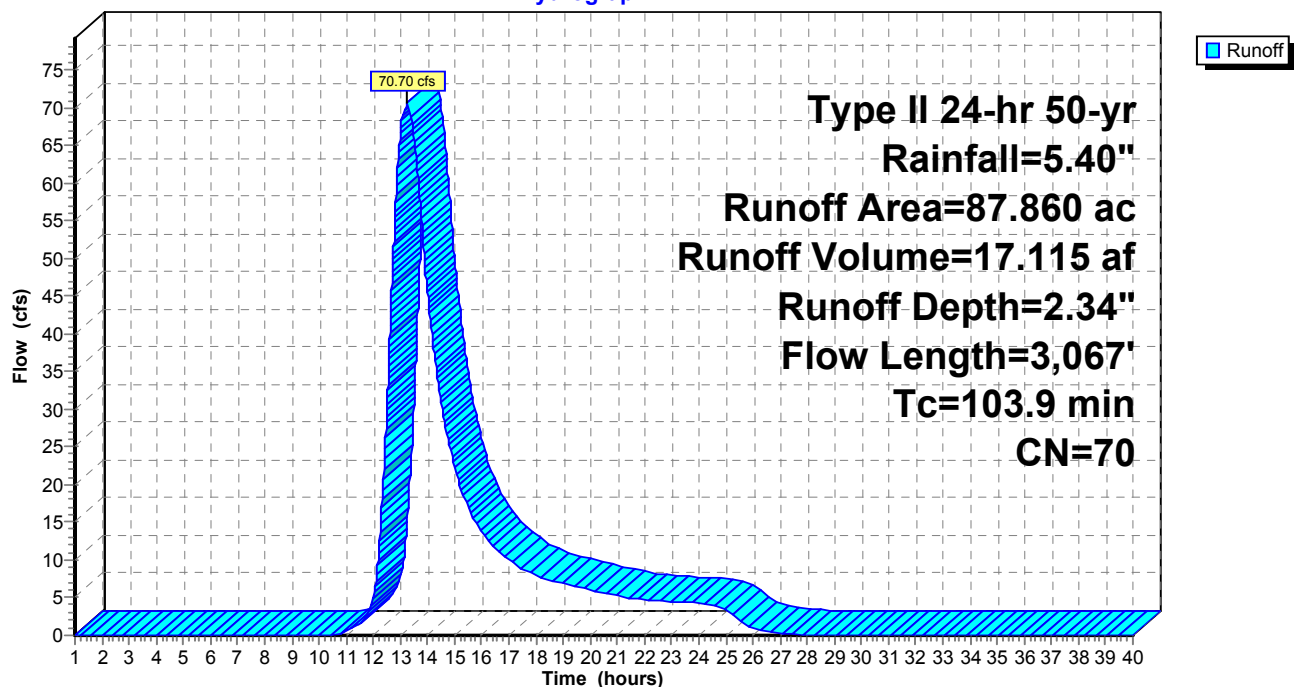
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
87.860	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
103.9	3,067	0.0100	0.5		Lag/CN Method,

Subcatchment W90: W90

Hydrograph



Subcatchment W91: W91

Runoff = 48.88 cfs @ 12.45 hrs, Volume= 6.414 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

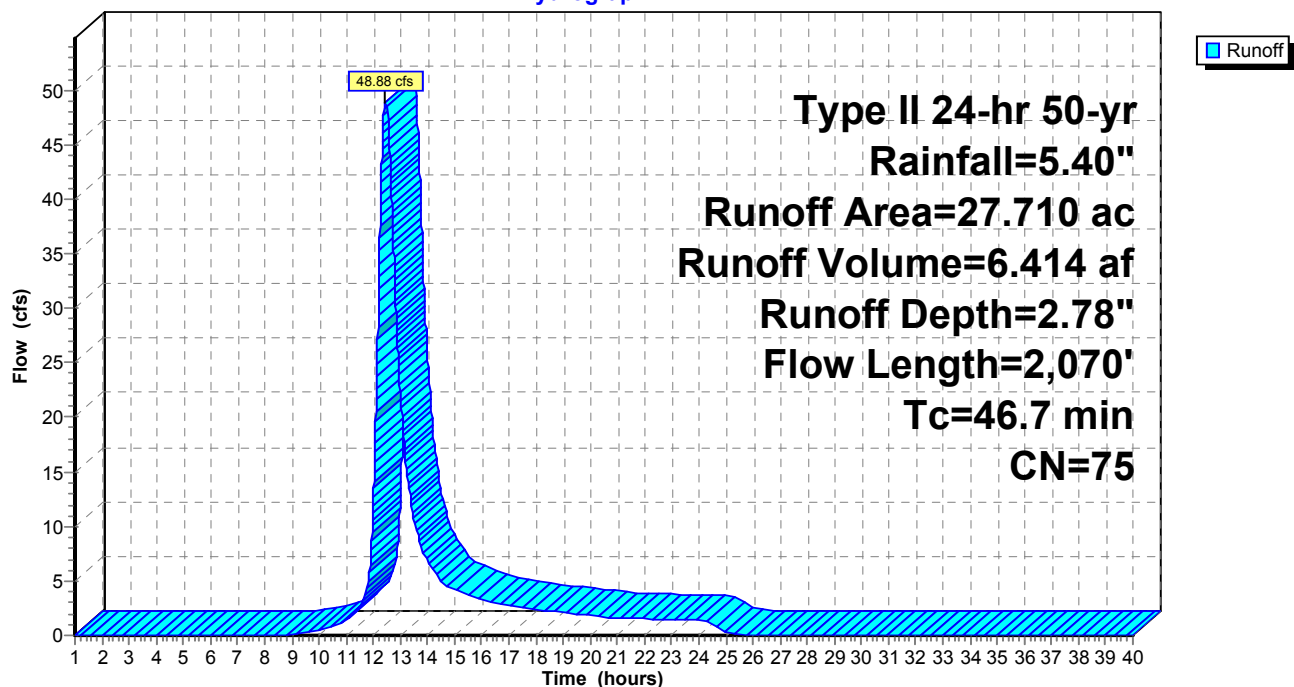
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
27.710	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	2,070	0.0200	0.7		Lag/CN Method,

Subcatchment W91: W91

Hydrograph



Subcatchment W92: W92

Runoff = 54.52 cfs @ 12.25 hrs, Volume= 5.186 af, Depth= 2.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

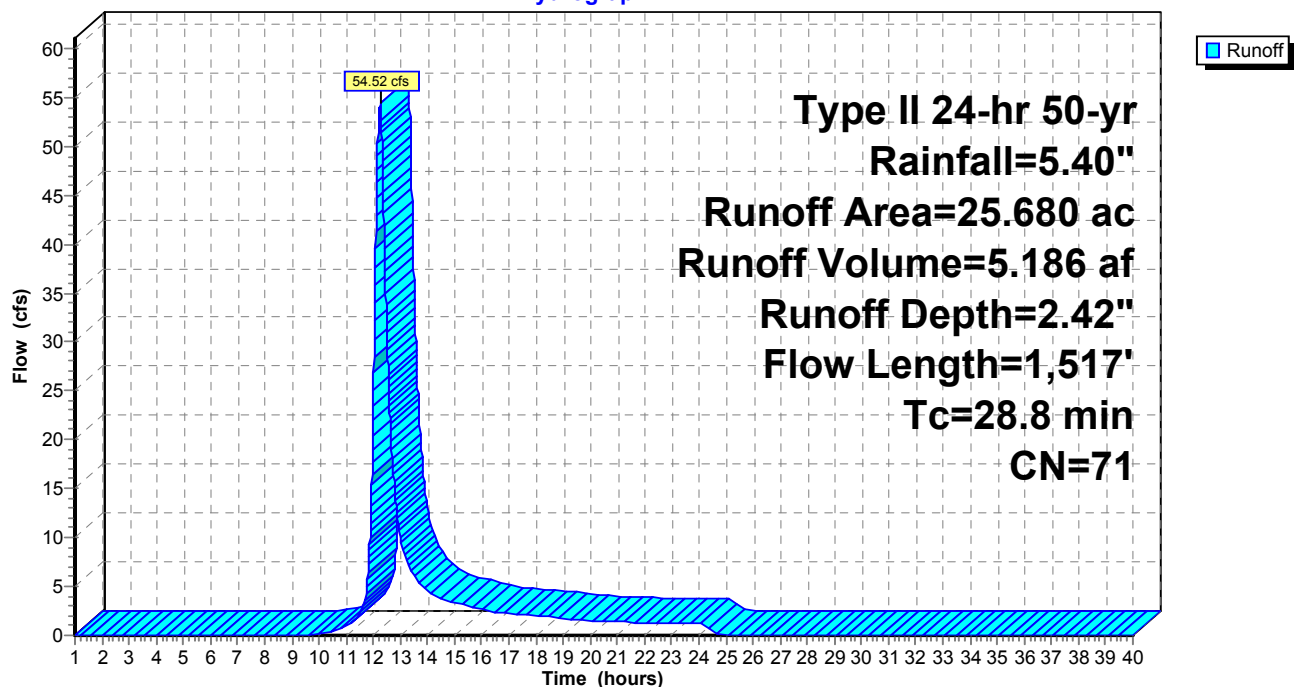
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
25.680	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	1,517	0.0400	0.9		Lag/CN Method,

Subcatchment W92: W92

Hydrograph



Subcatchment W93: W93

Runoff = 10.83 cfs @ 11.96 hrs, Volume= 0.476 af, Depth= 1.69"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

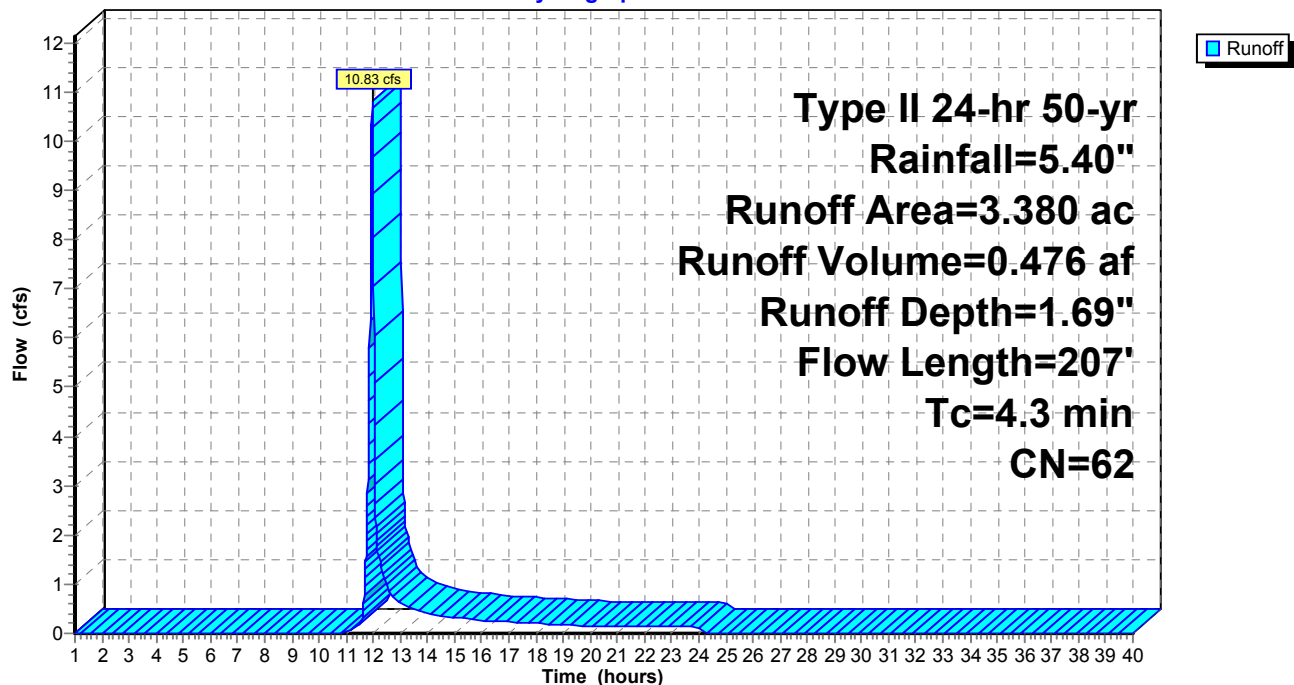
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
3.380	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	207	0.1200	0.8		Lag/CN Method,

Subcatchment W93: W93

Hydrograph



Subcatchment W94: W94

Runoff = 30.26 cfs @ 12.53 hrs, Volume= 4.485 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

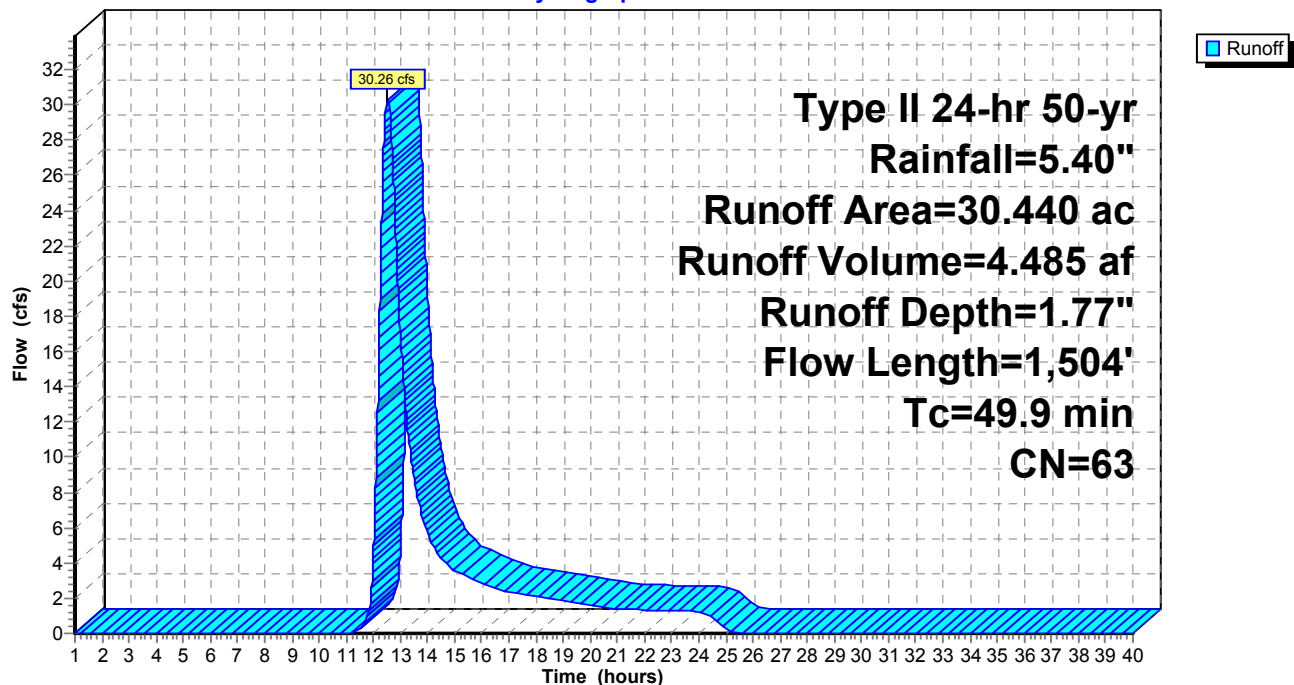
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
30.440	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.9	1,504	0.0200	0.5		Lag/CN Method,

Subcatchment W94: W94

Hydrograph



Subcatchment W95: W95

Runoff = 3.82 cfs @ 12.11 hrs, Volume= 0.430 af, Depth= 0.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

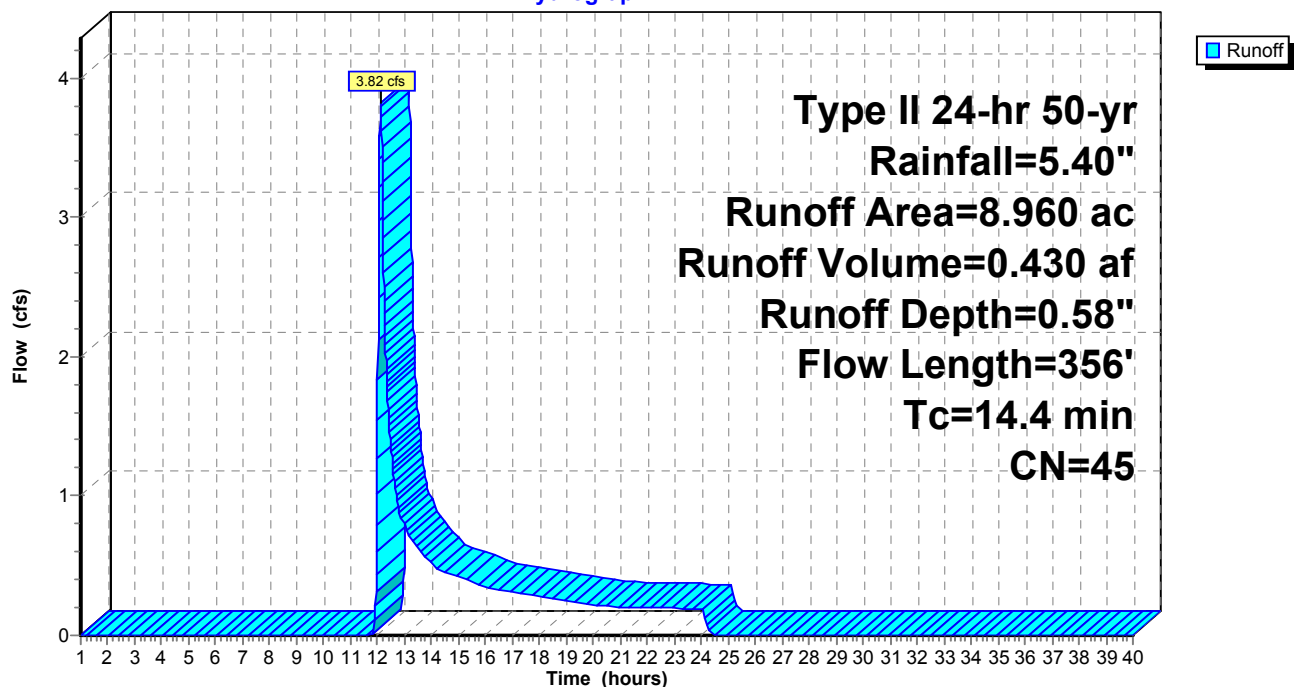
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
8.960	45	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.4	356	0.0600	0.4		Lag/CN Method,

Subcatchment W95: W95

Hydrograph



Subcatchment W96: W96

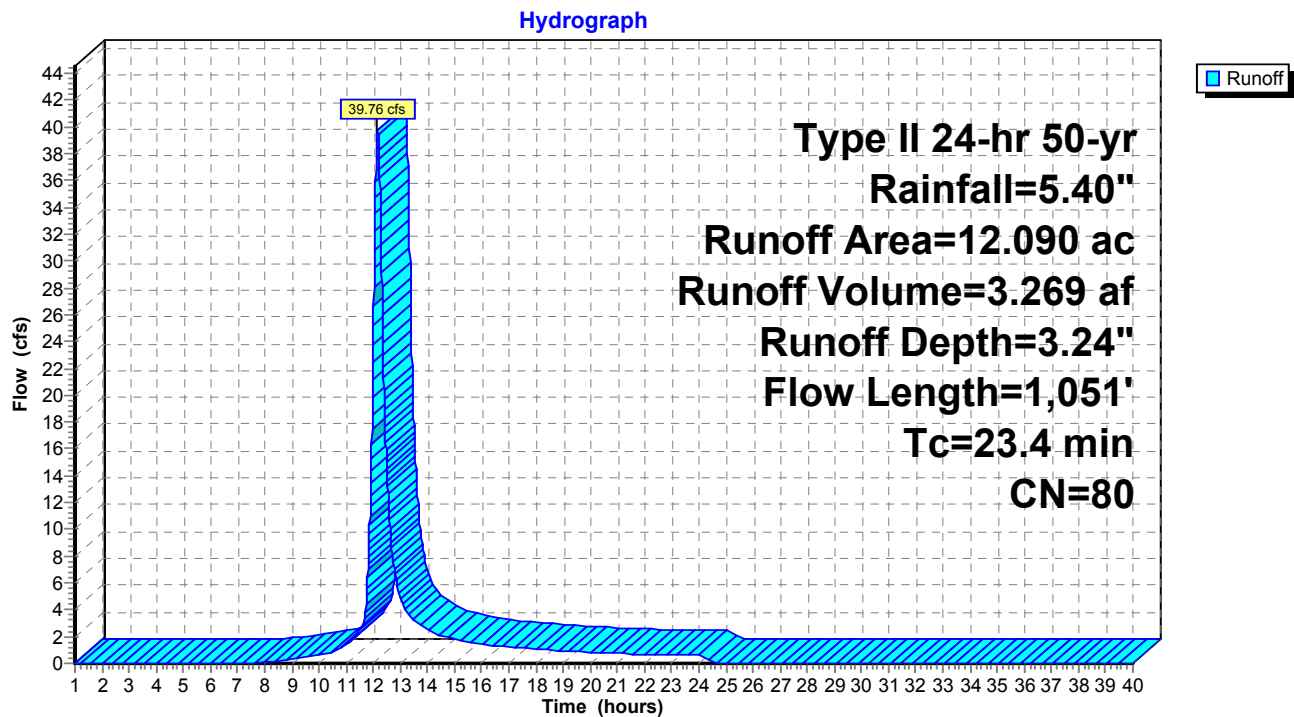
Runoff = 39.76 cfs @ 12.17 hrs, Volume= 3.269 af, Depth= 3.24"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
12.090	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,051	0.0200	0.7		Lag/CN Method,

Subcatchment W96: W96

Subcatchment W97: W97

Runoff = 29.68 cfs @ 12.01 hrs, Volume= 1.553 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

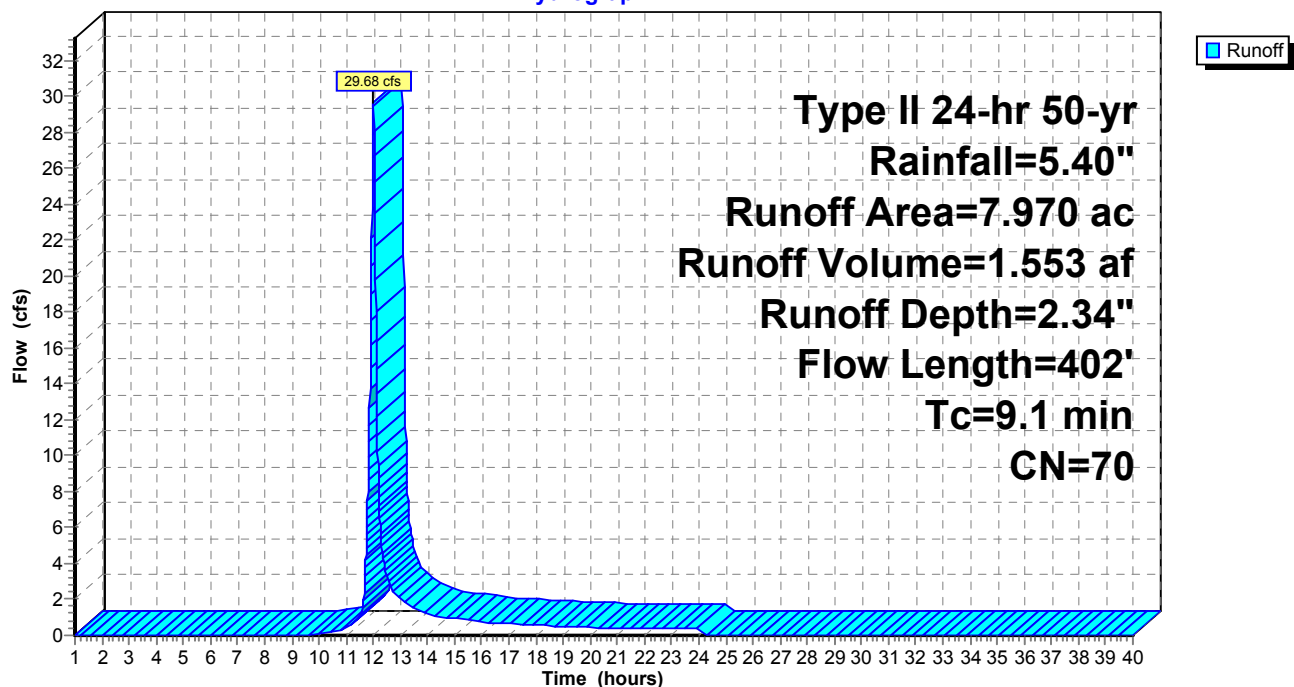
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
7.970	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	402	0.0500	0.7		Lag/CN Method,

Subcatchment W97: W97

Hydrograph



Subcatchment W98: W98

Runoff = 13.12 cfs @ 12.21 hrs, Volume= 1.238 af, Depth= 1.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

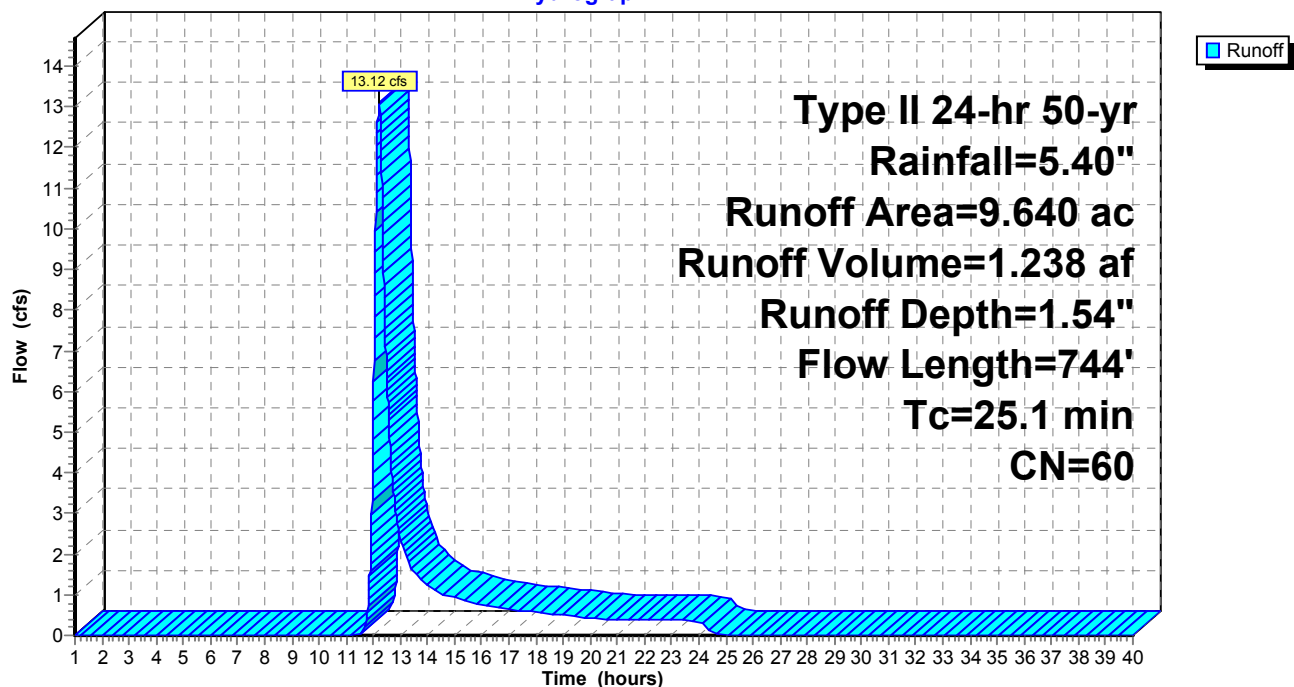
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
9.640	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	744	0.0300	0.5		Lag/CN Method,

Subcatchment W98: W98

Hydrograph



Subcatchment W99: W99

Runoff = 12.67 cfs @ 12.00 hrs, Volume= 0.640 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

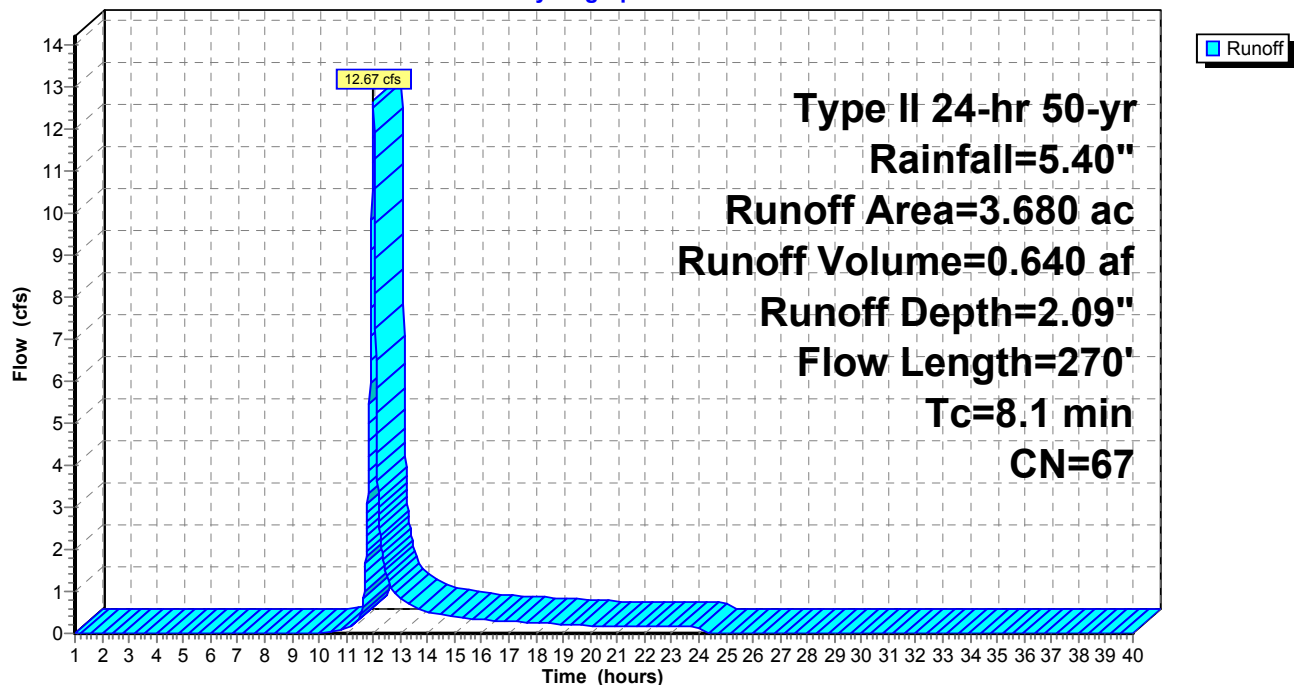
Type II 24-hr 50-yr Rainfall=5.40"

Area (ac)	CN	Description
3.680	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	270	0.0400	0.6		Lag/CN Method,

Subcatchment W99: W99

Hydrograph



Reach 4R: (new Reach)

Inflow Area = 47.571 ac, Inflow Depth > 1.60" for 50-yr event
 Inflow = 5.75 cfs @ 14.40 hrs, Volume= 6.357 af
 Outflow = 5.75 cfs @ 14.49 hrs, Volume= 6.344 af, Atten= 0%, Lag= 5.5 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.2 fps, Min. Travel Time= 7.1 min

Avg. Velocity = 1.6 fps, Avg. Travel Time= 9.7 min

Peak Depth= 0.39' @ 14.49 hrs

Capacity at bank full= 1,161.31 cfs

Inlet Invert= 980.00', Outlet Invert= 968.00'

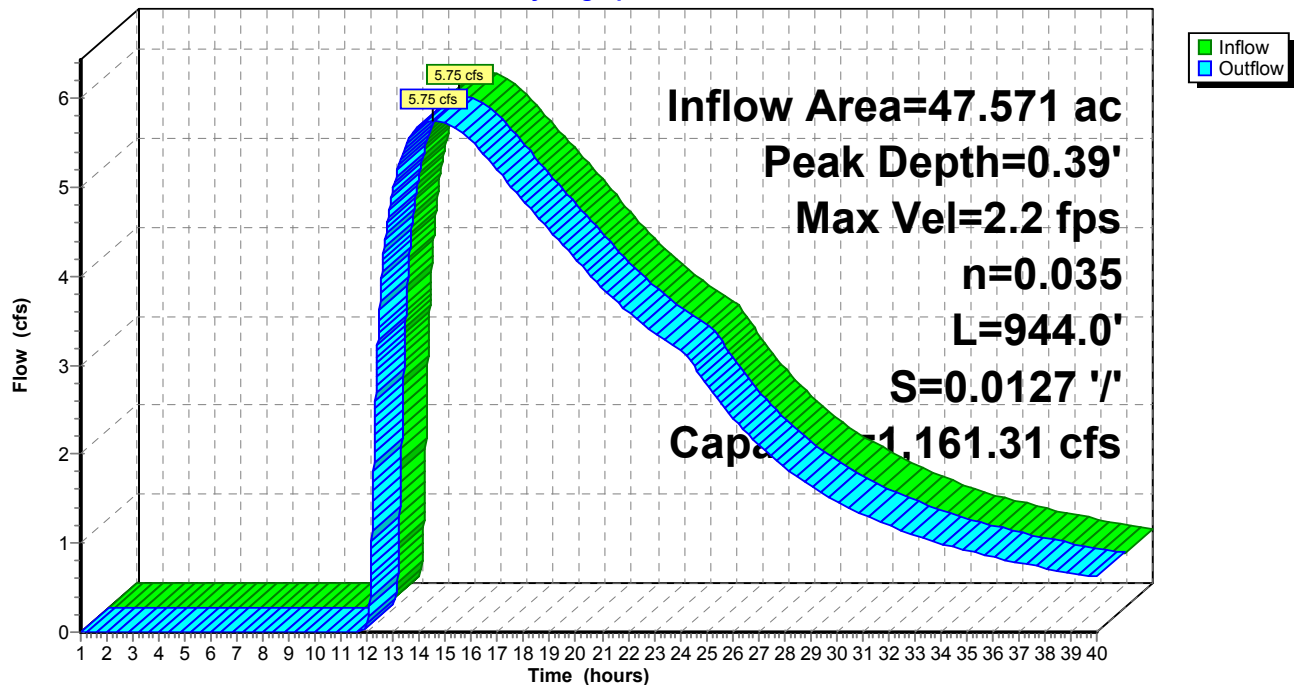
5.00' x 5.00' deep channel, n= 0.035 Earth, dense weeds

Side Slope Z-value= 4.0 ' Top Width= 45.00'

Length= 944.0' Slope= 0.0127 ' /'

Reach 4R: (new Reach)

Hydrograph



Reach 6R: (new Reach)

Inflow Area = 18.570 ac, Inflow Depth = 3.01" for 50-yr event
Inflow = 110.85 cfs @ 11.95 hrs, Volume= 4.665 af
Outflow = 100.30 cfs @ 11.98 hrs, Volume= 4.665 af, Atten= 10%, Lag= 1.7 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 3.2 fps, Min. Travel Time= 2.6 min

Avg. Velocity = 1.1 fps, Avg. Travel Time= 7.4 min

Peak Depth= 2.47' @ 11.98 hrs

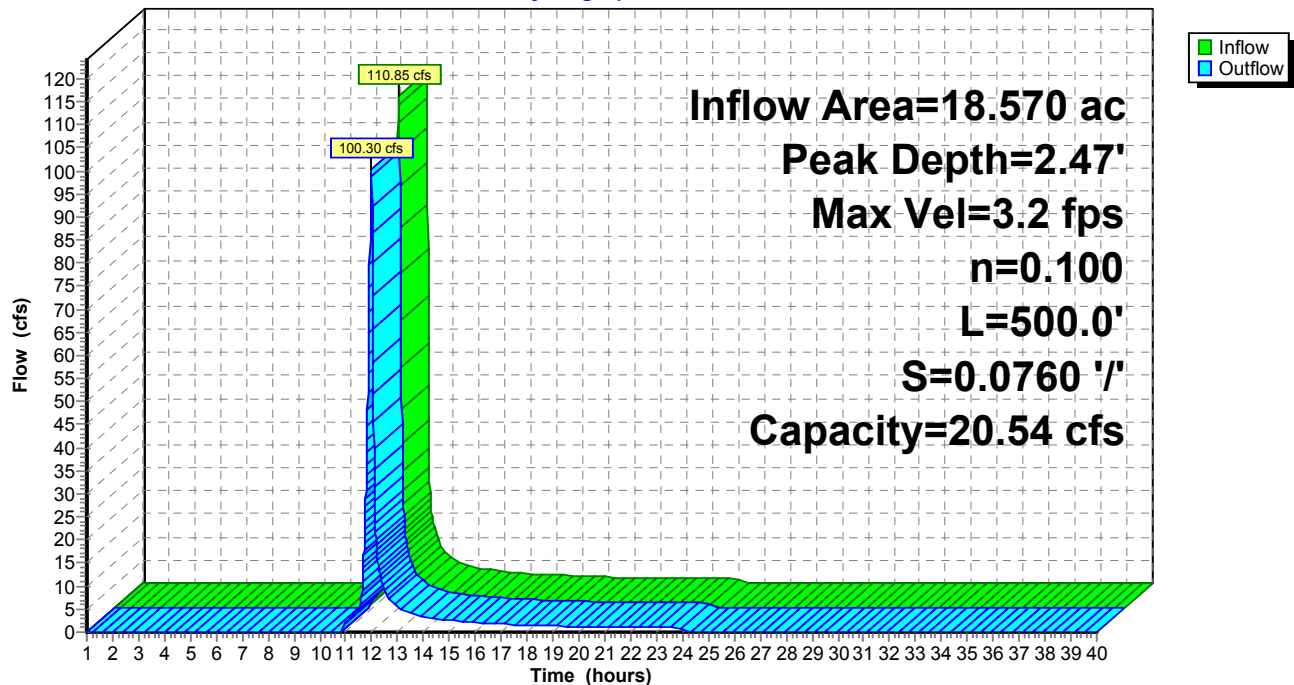
Capacity at bank full= 20.54 cfs

Inlet Invert= 1,108.00', Outlet Invert= 1,070.00'

0.00' x 1.00' deep channel, n= 0.100 Earth, dense brush, high stage

Side Slope Z-value= 8.0 '/' Top Width= 16.00'

Length= 500.0' Slope= 0.0760 '/'

Reach 6R: (new Reach)**Hydrograph**

Reach A1R: A1R

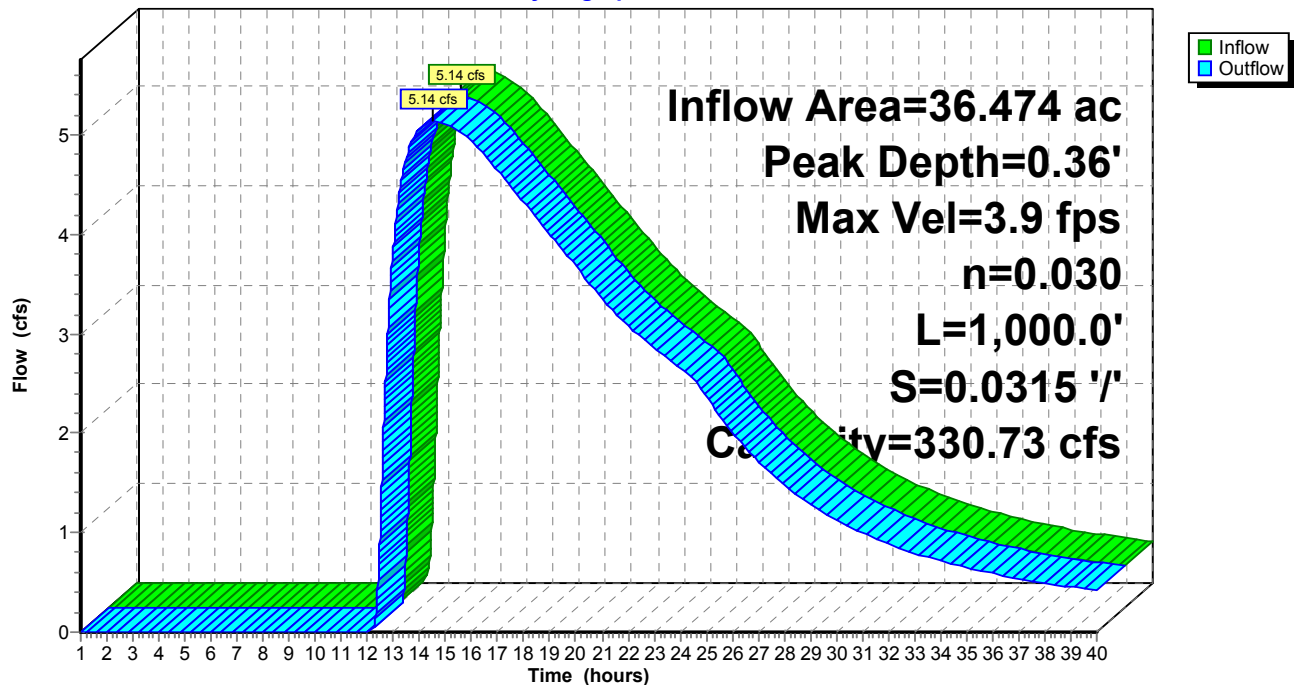
Inflow Area = 36.474 ac, Inflow Depth > 1.74" for 50-yr event
Inflow = 5.14 cfs @ 14.50 hrs, Volume= 5.277 af
Outflow = 5.14 cfs @ 14.55 hrs, Volume= 5.271 af, Atten= 0%, Lag= 3.2 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.9 fps, Min. Travel Time= 4.3 min
Avg. Velocity = 2.7 fps, Avg. Travel Time= 6.2 min

Peak Depth= 0.36' @ 14.55 hrs
Capacity at bank full= 330.73 cfs
Inlet Invert= 1,092.50', Outlet Invert= 1,061.00'
3.00' x 3.00' deep channel, n= 0.030
Side Slope Z-value= 2.0 '/' Top Width= 15.00'
Length= 1,000.0' Slope= 0.0315 '/'

Reach A1R: A1R

Hydrograph



Reach A4R: A4R

Inflow Area = 34.000 ac, Inflow Depth > 1.59" for 50-yr event
Inflow = 2.97 cfs @ 16.96 hrs, Volume= 4.496 af
Outflow = 2.97 cfs @ 17.08 hrs, Volume= 4.480 af, Atten= 0%, Lag= 7.1 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.7 fps, Min. Travel Time= 9.3 min

Avg. Velocity = 2.2 fps, Avg. Travel Time= 11.2 min

Peak Depth= 0.40' @ 17.08 hrs

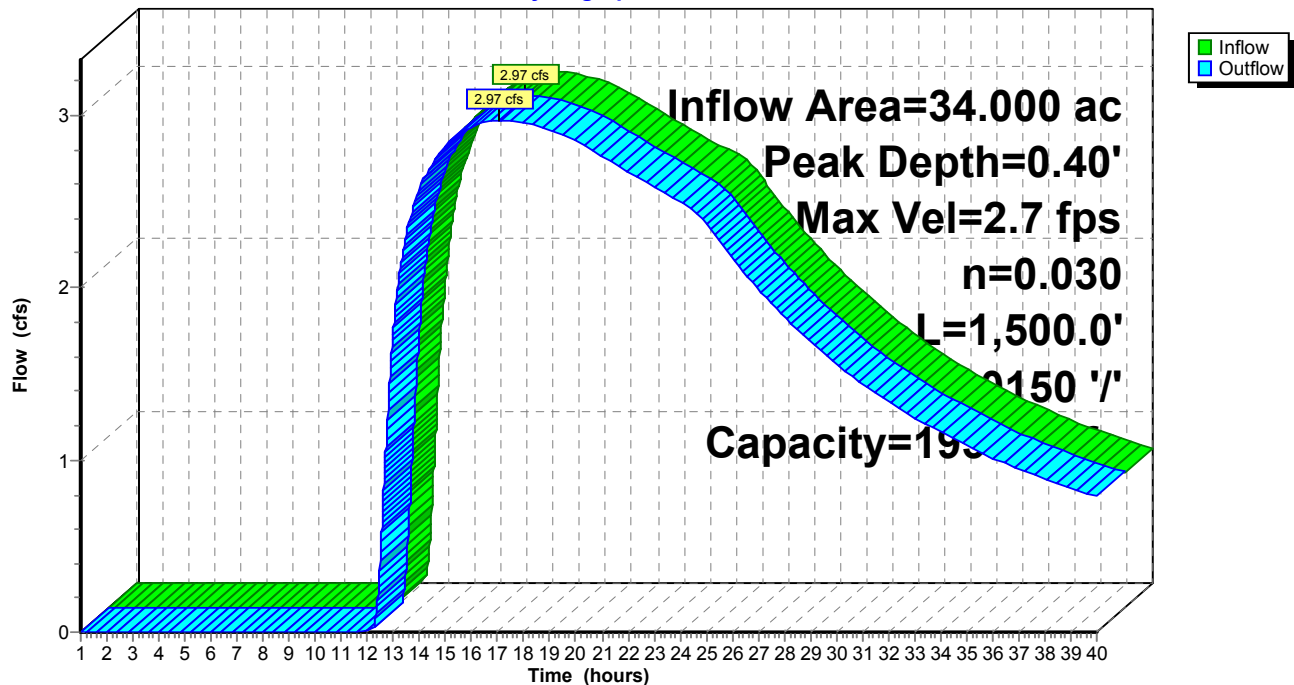
Capacity at bank full= 195.57 cfs

Inlet Invert= 1,083.50', Outlet Invert= 1,061.00'

2.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 14.00'

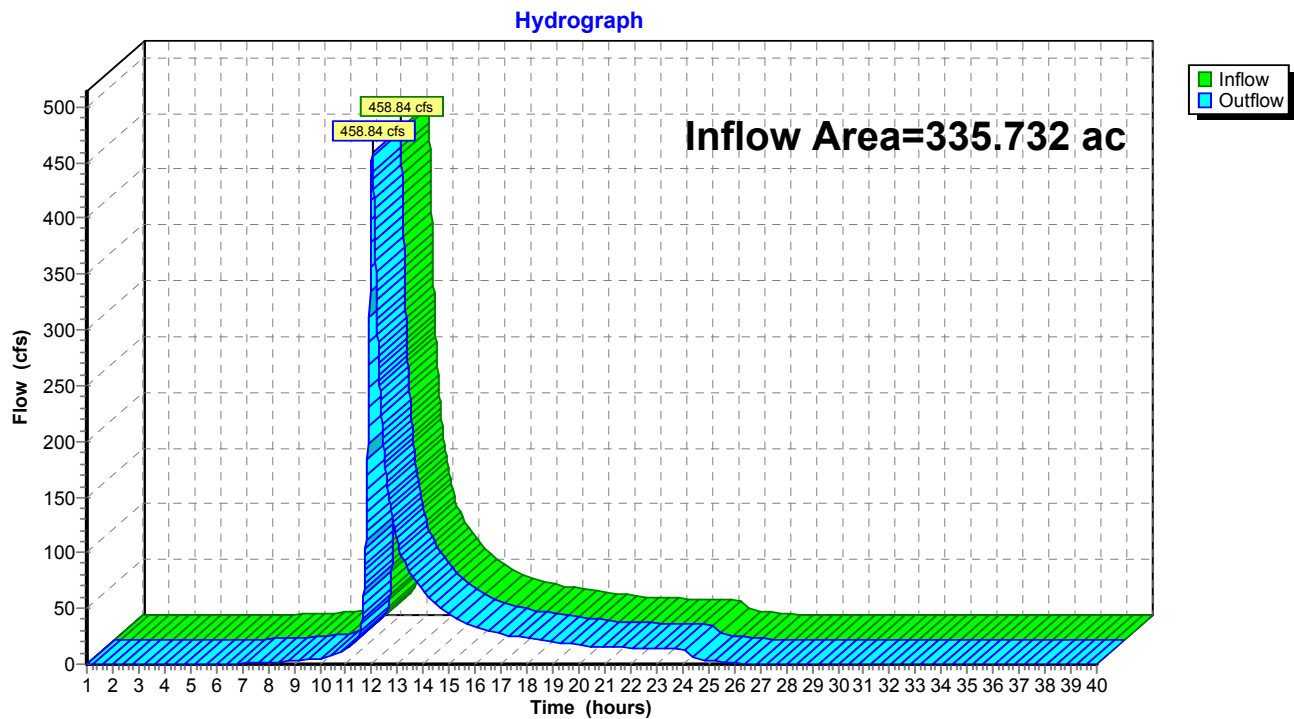
Length= 1,500.0' Slope= 0.0150 '/'

Reach A4R: A4R**Hydrograph**

Reach Apple River 1: Apple River-Above Dam

Inflow Area = 335.732 ac, Inflow Depth = 1.96" for 50-yr event
Inflow = 458.84 cfs @ 12.02 hrs, Volume= 54.701 af
Outflow = 458.84 cfs @ 12.02 hrs, Volume= 54.701 af, Atten= 0%, Lag= 0.0 min

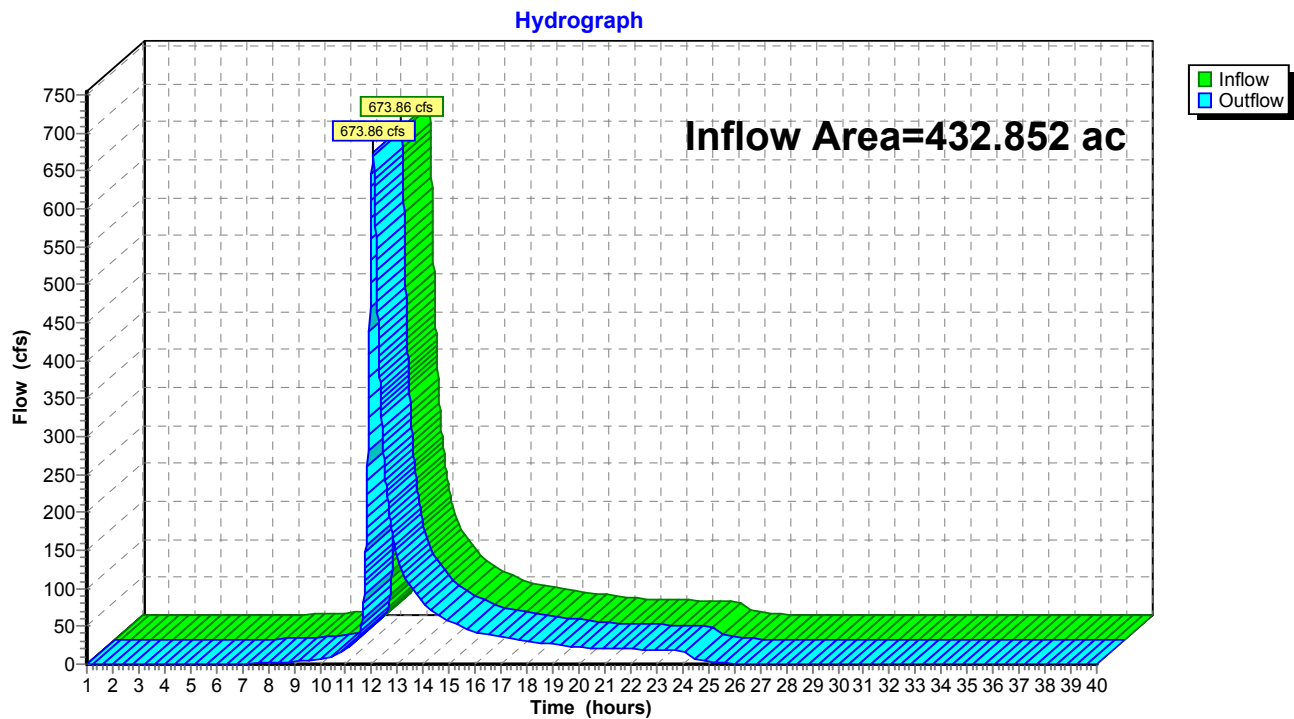
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 1: Apple River-Above Dam

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Inflow Area = 432.852 ac, Inflow Depth = 2.07" for 50-yr event
Inflow = 673.86 cfs @ 12.04 hrs, Volume= 74.661 af
Outflow = 673.86 cfs @ 12.04 hrs, Volume= 74.661 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

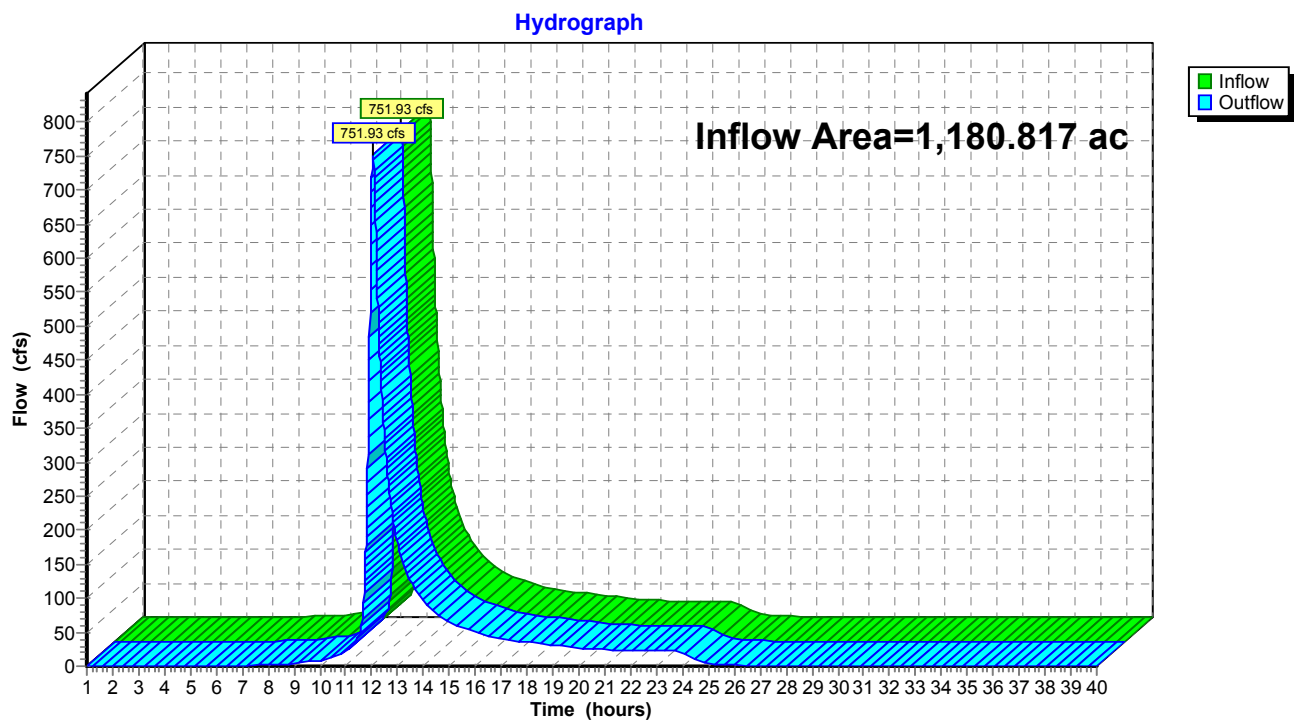
Reach Apple River 3: Apple River - At South Twin Outlet

Inflow Area = 1,180.817 ac, Inflow Depth > 0.90" for 50-yr event

Inflow = 751.93 cfs @ 12.04 hrs, Volume= 89.007 af

Outflow = 751.93 cfs @ 12.04 hrs, Volume= 89.007 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 3: Apple River - At South Twin Outlet

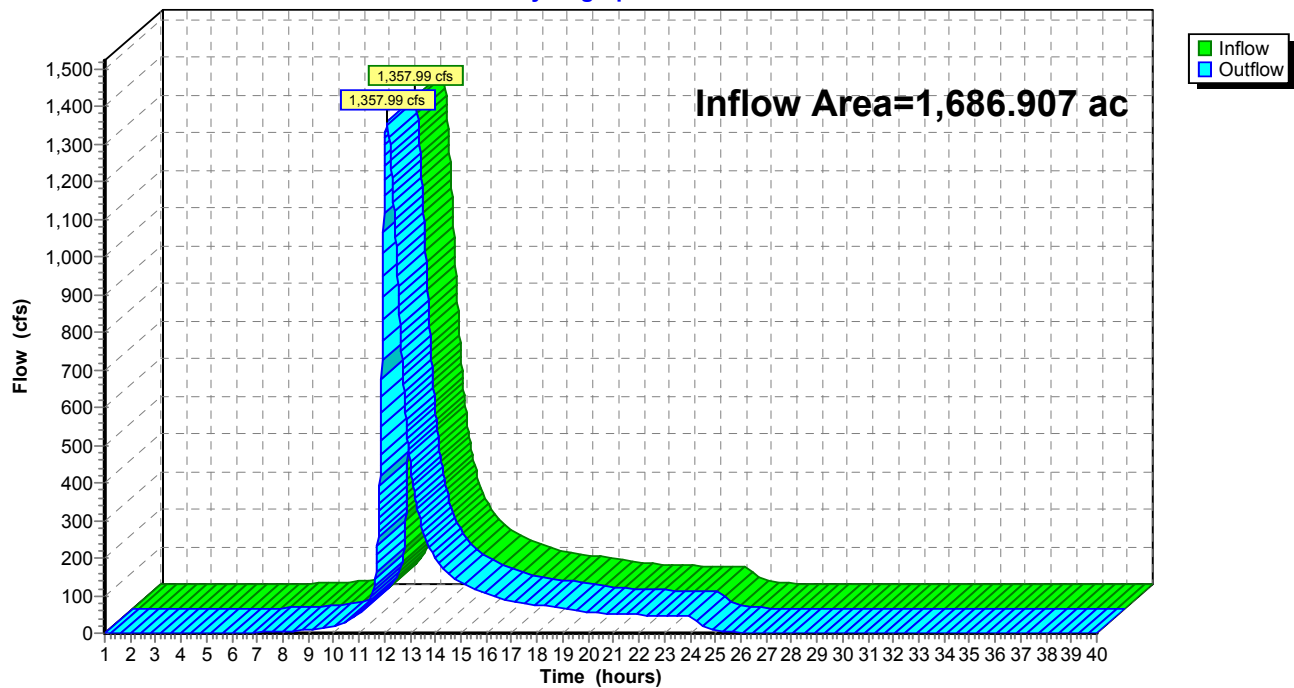
Reach Apple River 4: Apple River Downstream of South Twin Outlet

Inflow Area = 1,686.907 ac, Inflow Depth > 1.38" for 50-yr event

Inflow = 1,357.99 cfs @ 12.10 hrs, Volume= 194.261 af

Outflow = 1,357.99 cfs @ 12.10 hrs, Volume= 194.261 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 4: Apple River Downstream of South Twin Outlet**Hydrograph**

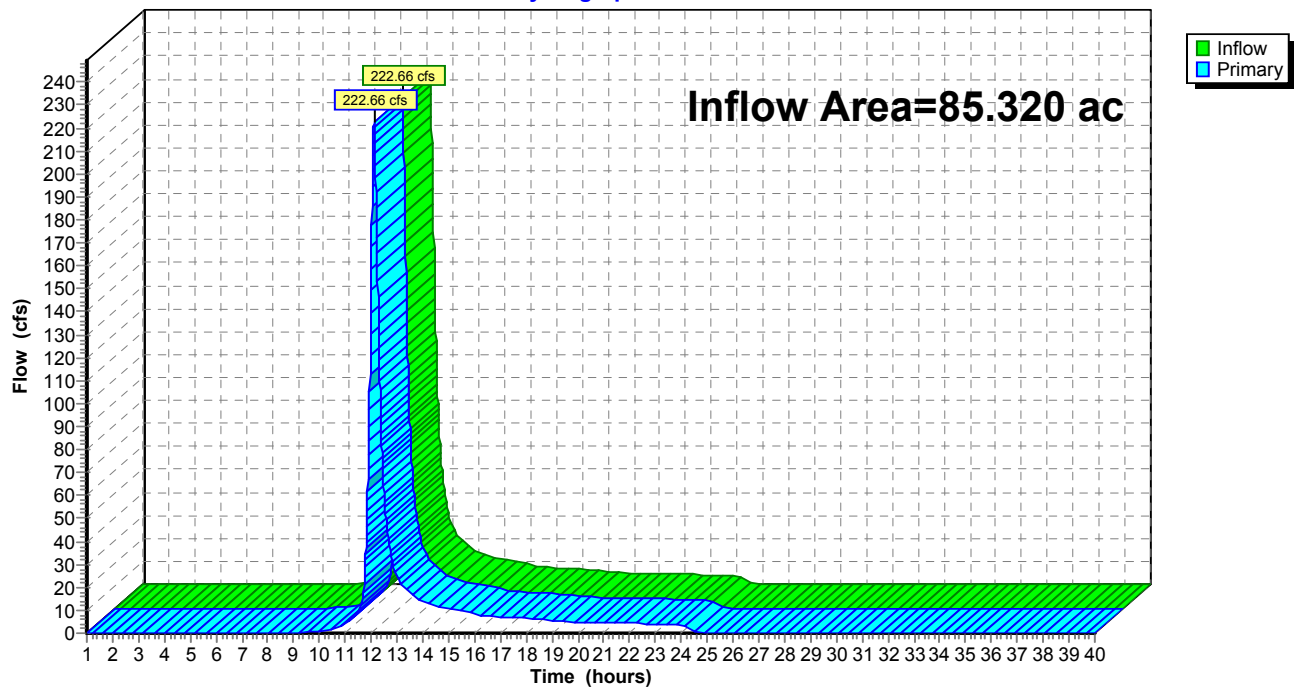
Pond 1P: (new Pond)

Inflow Area = 85.320 ac, Inflow Depth = 2.37" for 50-yr event
Inflow = 222.66 cfs @ 12.11 hrs, Volume= 16.841 af
Primary = 222.66 cfs @ 12.11 hrs, Volume= 16.841 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 1P: (new Pond)

Hydrograph



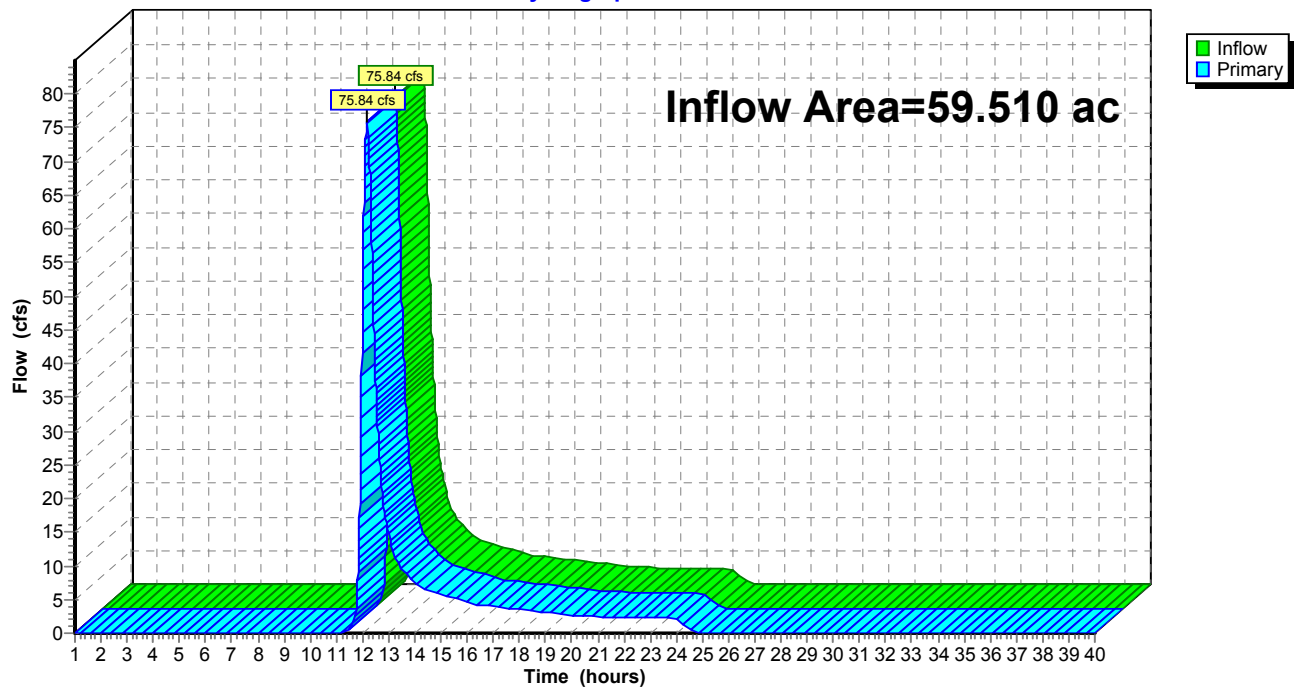
Pond 2P: (new Pond)

Inflow Area = 59.510 ac, Inflow Depth = 1.56" for 50-yr event
Inflow = 75.84 cfs @ 12.17 hrs, Volume= 7.749 af
Primary = 75.84 cfs @ 12.17 hrs, Volume= 7.749 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 2P: (new Pond)

Hydrograph



Pond 3P: (new Pond)

Inflow Area = 47.571 ac, Inflow Depth = 1.93" for 50-yr event
 Inflow = 125.74 cfs @ 12.05 hrs, Volume= 7.632 af
 Outflow = 5.75 cfs @ 14.40 hrs, Volume= 6.357 af, Atten= 95%, Lag= 140.6 min
 Primary = 5.75 cfs @ 14.40 hrs, Volume= 6.357 af

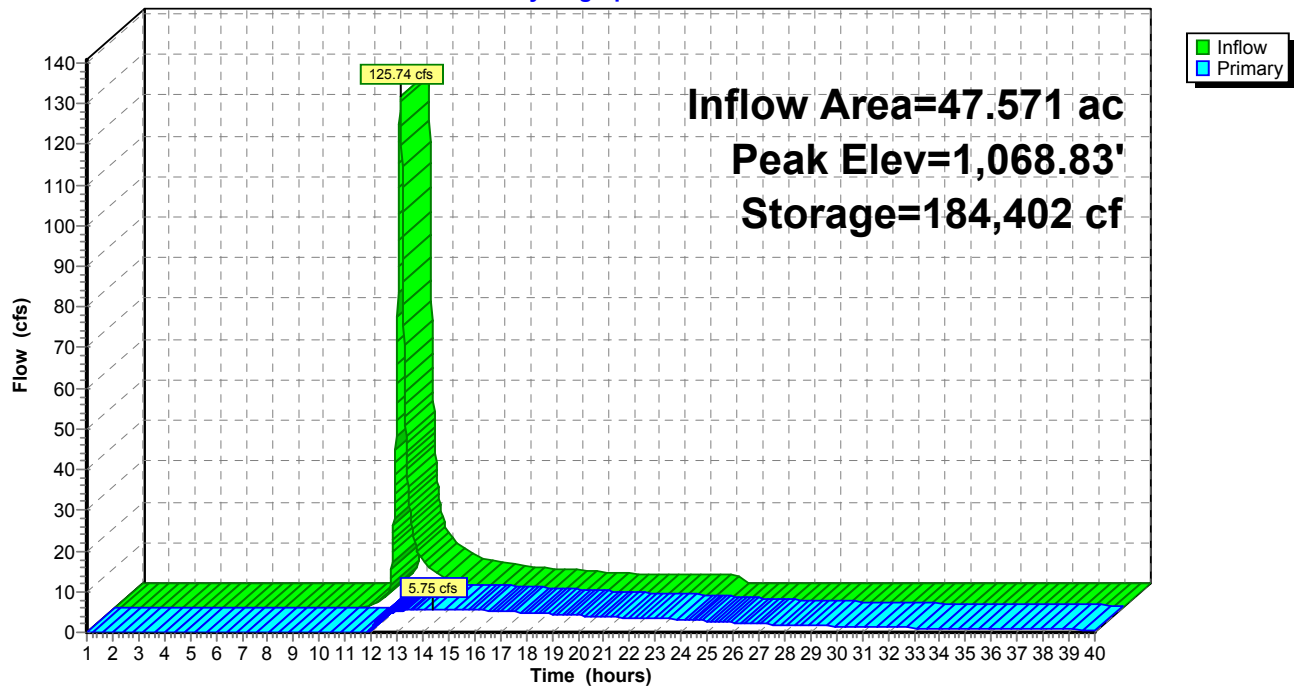
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.83' @ 14.40 hrs Surf.Area= 233,160 sf Storage= 184,402 cf
 Plug-Flow detention time= 485.7 min calculated for 6.355 af (83% of inflow)
 Center-of-Mass det. time= 409.3 min (1,268.4 - 859.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,068.00'	4,623,972 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,068.00	208,562	0	0
1,080.00	562,100	4,623,972	4,623,972

Device	Routing	Invert	Outlet Devices
#1	Primary	1,068.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 10.00 Width (feet) 1.00 40.00

Primary OutFlow Max=5.75 cfs @ 14.40 hrs HW=1,068.83' TW=980.39' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Weir Controls 5.75 cfs @ 2.6 fps)

Pond 3P: (new Pond)**Hydrograph**

Pond 5P: (new Pond)

Inflow Area = 18.570 ac, Inflow Depth = 3.15" for 50-yr event
 Inflow = 110.78 cfs @ 11.95 hrs, Volume= 4.873 af
 Outflow = 110.85 cfs @ 11.95 hrs, Volume= 4.665 af, Atten= 0%, Lag= 0.0 min
 Primary = 110.85 cfs @ 11.95 hrs, Volume= 4.665 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,166.85' @ 11.95 hrs Surf.Area= 9,060 sf Storage= 9,060 cf
 Plug-Flow detention time= 34.6 min calculated for 4.665 af (96% of inflow)
 Center-of-Mass det. time= 9.9 min (826.1 - 816.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,107.00'	9,060 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

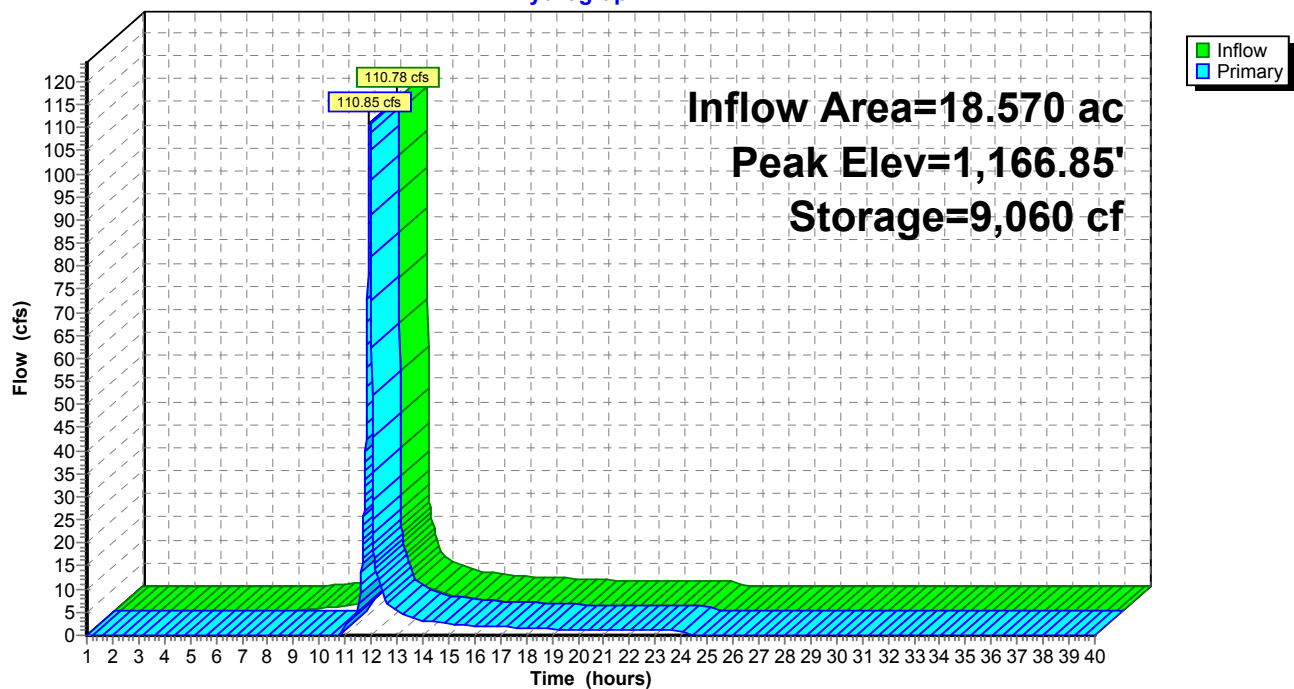
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,107.00	9,060	0	0
1,108.00	9,060	9,060	9,060

Device	Routing	Invert	Outlet Devices
#1	Primary	1,107.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 1.00 Width (feet) 1.00 5.00

Primary OutFlow Max=110.65 cfs @ 11.95 hrs HW=1,166.72' TW=1,110.35' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Orifice Controls 110.65 cfs @ 36.9 fps)

Pond 5P: (new Pond)

Hydrograph



Pond A10P: A10P

Inflow Area = 9.300 ac, Inflow Depth = 2.25" for 50-yr event
 Inflow = 36.44 cfs @ 11.99 hrs, Volume= 1.746 af
 Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.95' @ 24.40 hrs Surf.Area= 64,753 sf Storage= 76,056 cf
 Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

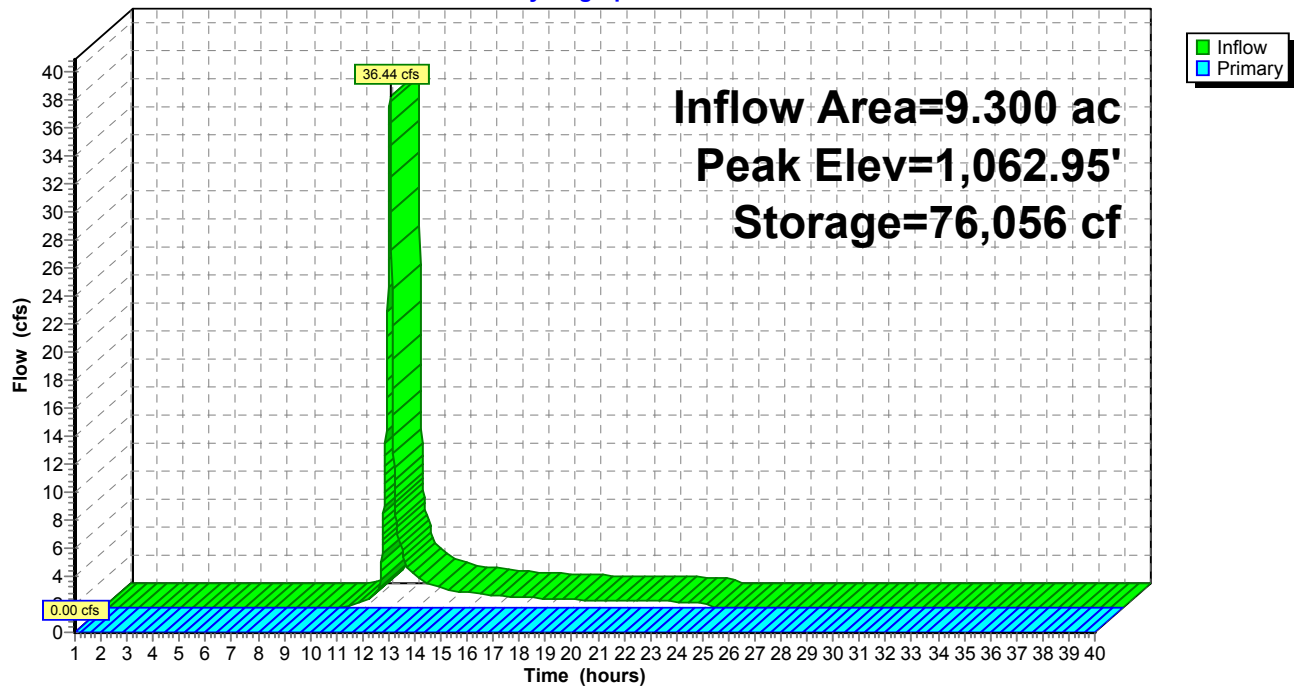
Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	640,000 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	60,000	0	0
1,070.00	100,000	640,000	640,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,070.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=1,062.00' TW=1,060.80' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond A10P: A10P**Hydrograph**

Pond A1P: WETLAND PONDS

Inflow Area = 36.474 ac, Inflow Depth = 2.09" for 50-yr event
 Inflow = 53.96 cfs @ 12.35 hrs, Volume= 6.343 af
 Outflow = 5.14 cfs @ 14.50 hrs, Volume= 5.277 af, Atten= 90%, Lag= 128.6 min
 Primary = 5.14 cfs @ 14.50 hrs, Volume= 5.277 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,094.07' @ 14.50 hrs Surf.Area= 103,236 sf Storage= 152,943 cf
 Plug-Flow detention time= 455.2 min calculated for 5.275 af (83% of inflow)
 Center-of-Mass det. time= 378.8 min (1,256.3 - 877.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,092.50'	243,750 cf	Custom Stage Data (Prismatic) Listed below

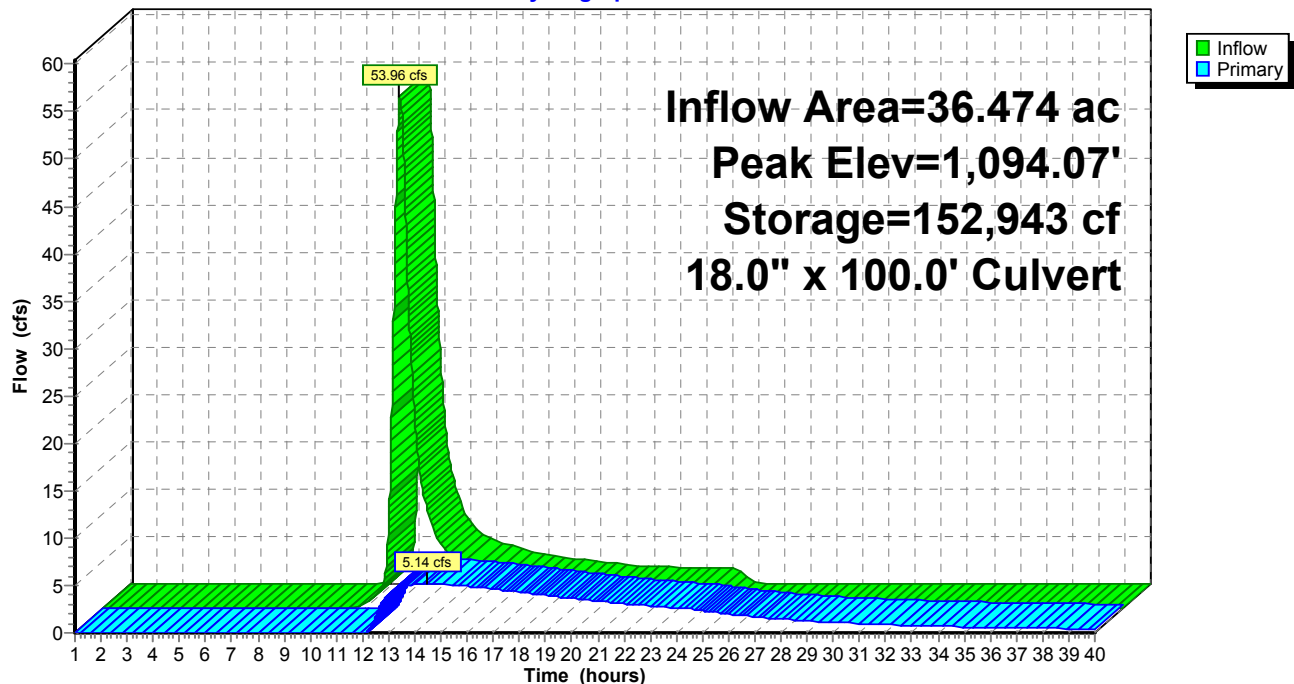
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,092.50	75,000	0	0
1,095.00	120,000	243,750	243,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,092.50'	18.0" x 100.0' long Culvert Ke= 0.700 Outlet Invert= 1,091.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=5.14 cfs @ 14.50 hrs HW=1,094.07' TW=1,092.86' (Dynamic Tailwater)
 ↑ **1=Culvert** (Outlet Controls 5.14 cfs @ 3.5 fps)

Pond A1P: WETLAND PONDS

Hydrograph



Pond A4P: A4P

Inflow Area = 34.000 ac, Inflow Depth = 2.34" for 50-yr event
 Inflow = 60.90 cfs @ 12.32 hrs, Volume= 6.623 af
 Outflow = 2.97 cfs @ 16.96 hrs, Volume= 4.496 af, Atten= 95%, Lag= 278.0 min
 Primary = 2.97 cfs @ 16.96 hrs, Volume= 4.496 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,085.04' @ 16.96 hrs Surf.Area= 185,592 sf Storage= 190,899 cf
 Plug-Flow detention time= 650.2 min calculated for 4.495 af (68% of inflow)
 Center-of-Mass det. time= 539.3 min (1,406.5 - 867.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,084.00'	368,635 cf	Custom Stage Data (Prismatic) Listed below

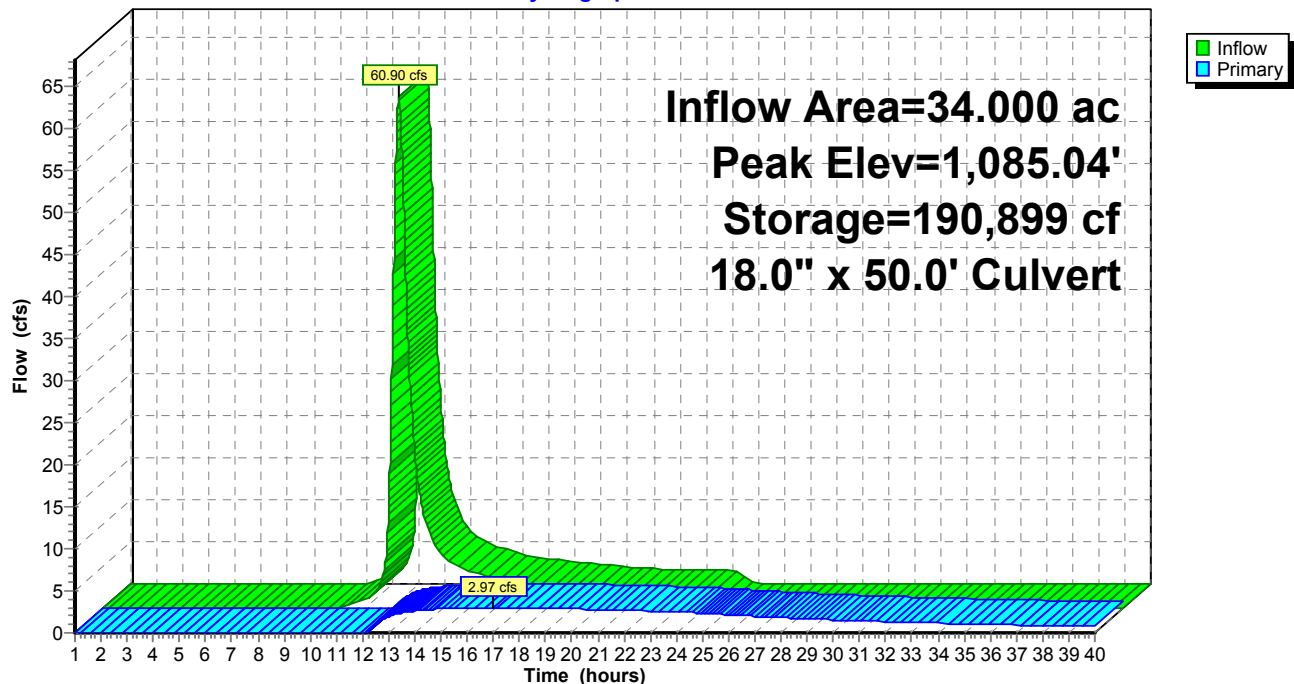
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,084.00	148,635	0	0
1,086.00	220,000	368,635	368,635

Device	Routing	Invert	Outlet Devices
#1	Primary	1,084.00'	18.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,083.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=2.97 cfs @ 16.96 hrs HW=1,085.04' TW=1,083.90' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 2.97 cfs @ 3.2 fps)

Pond A4P: A4P

Hydrograph



Pond B6P: WETPONDS

Inflow Area = 16.070 ac, Inflow Depth = 2.17" for 50-yr event
 Inflow = 55.67 cfs @ 12.01 hrs, Volume= 2.905 af
 Outflow = 1.00 cfs @ 11.69 hrs, Volume= 2.414 af, Atten= 98%, Lag= 0.0 min
 Discarded = 1.00 cfs @ 11.69 hrs, Volume= 2.414 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.14' @ 18.94 hrs Surf.Area= 38,558 sf Storage= 82,289 cf
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 676.0 min (1,524.0 - 848.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.00'	153,798 cf	Custom Stage Data (Prismatic) Listed below

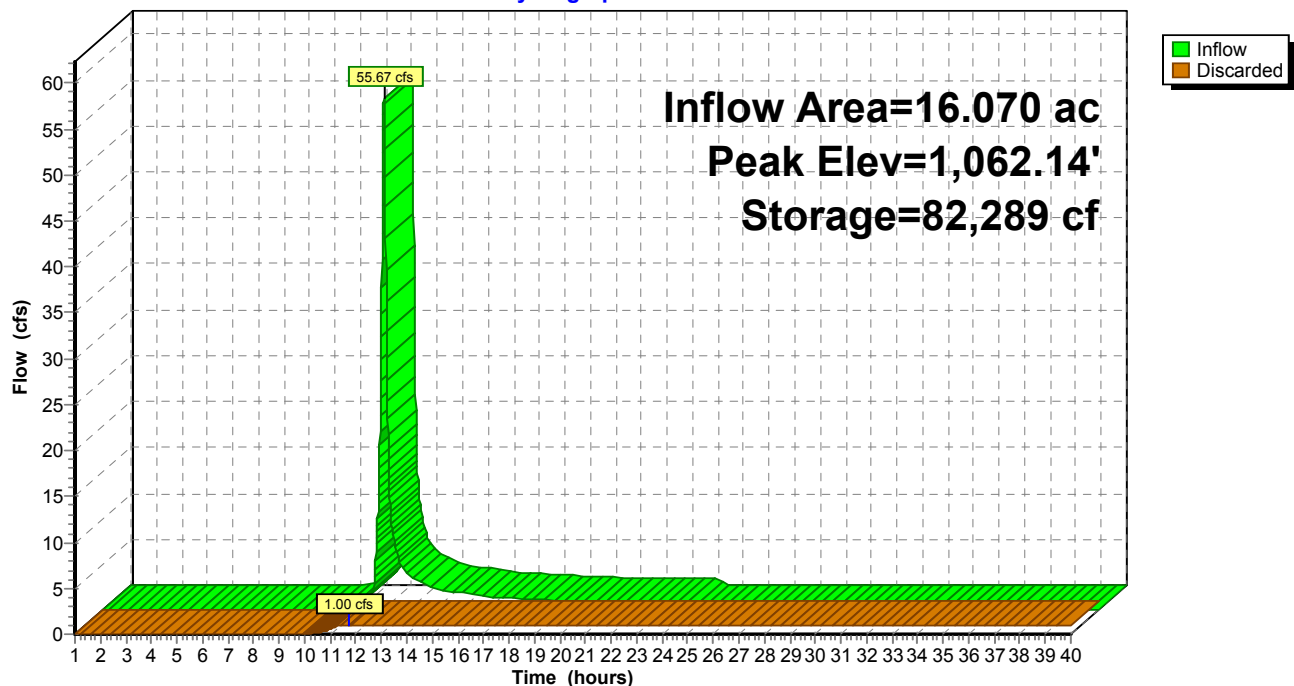
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,060.00	36,899	0	0
1,064.00	40,000	153,798	153,798

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	1.00 cfs Exfiltration at all elevations

Discarded OutFlow Max=1.00 cfs @ 11.69 hrs HW=1,060.04' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 1.00 cfs)

Pond B6P: WETPONDS

Hydrograph



Pond B7P: DRY POND

Inflow Area = 15.390 ac, Inflow Depth = 1.85" for 50-yr event
 Inflow = 20.57 cfs @ 12.34 hrs, Volume= 2.368 af
 Outflow = 12.20 cfs @ 12.65 hrs, Volume= 2.365 af, Atten= 41%, Lag= 18.7 min
 Primary = 12.20 cfs @ 12.65 hrs, Volume= 2.365 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.60' @ 12.65 hrs Surf.Area= 38,690 sf Storage= 24,207 cf
 Plug-Flow detention time= 55.4 min calculated for 2.365 af (100% of inflow)
 Center-of-Mass det. time= 55.1 min (938.0 - 882.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	81,000 cf	Custom Stage Data (Prismatic) Listed below

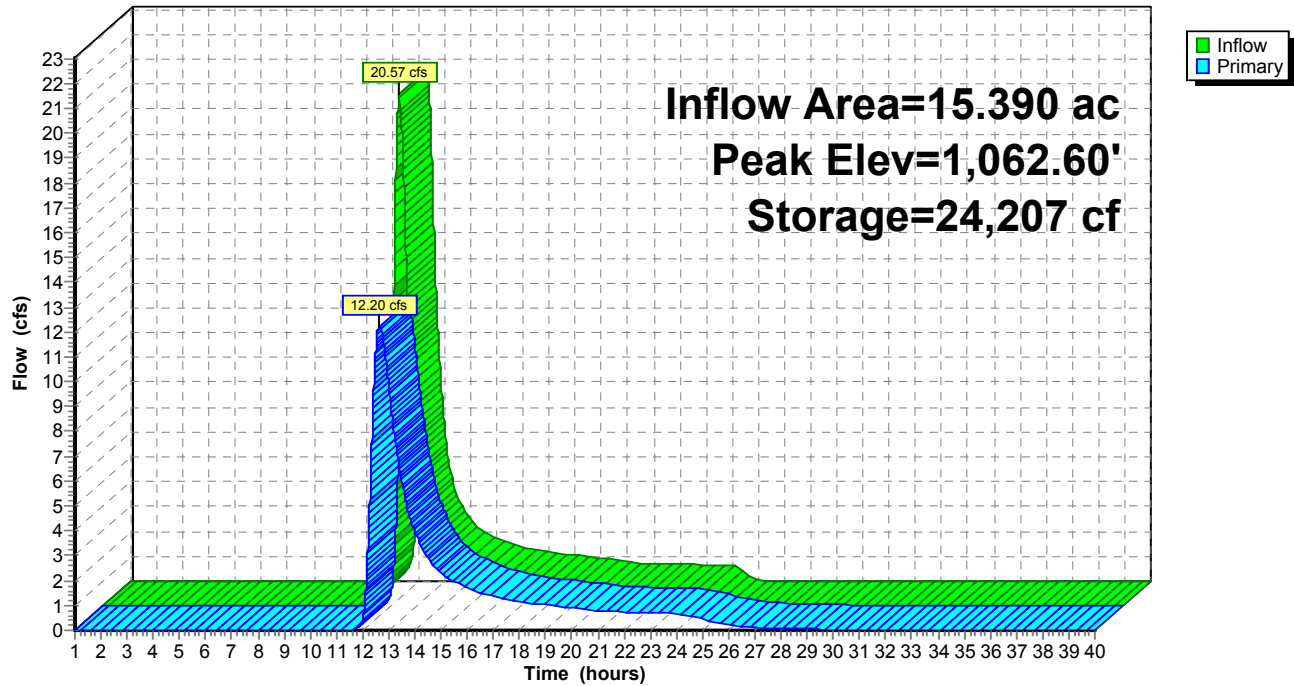
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	36,000	0	0
1,064.00	45,000	81,000	81,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=12.20 cfs @ 12.65 hrs HW=1,062.60' TW=1,060.89' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 12.20 cfs @ 2.0 fps)

Pond B7P: DRY POND

Hydrograph



Pond C4P: GOLF COURSE POND

Inflow Area = 20.070 ac, Inflow Depth = 1.85" for 50-yr event
 Inflow = 66.23 cfs @ 11.98 hrs, Volume= 3.087 af
 Outflow = 20.95 cfs @ 12.10 hrs, Volume= 3.085 af, Atten= 68%, Lag= 7.2 min
 Primary = 20.95 cfs @ 12.10 hrs, Volume= 3.085 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.66' @ 12.10 hrs Surf.Area= 68,669 sf Storage= 40,937 cf
 Plug-Flow detention time= 57.5 min calculated for 3.085 af (100% of inflow)
 Center-of-Mass det. time= 56.9 min (912.3 - 855.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,063.00'	147,275 cf	Custom Stage Data (Prismatic) Listed below

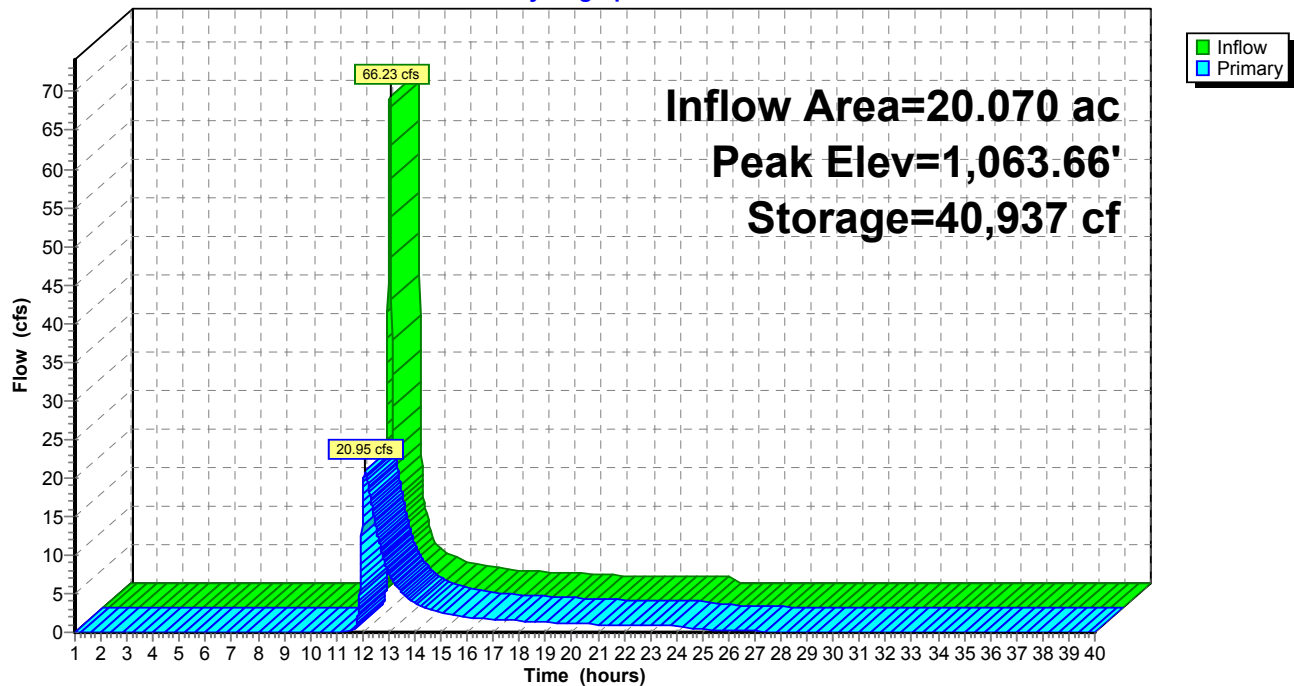
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,063.00	53,600	0	0
1,063.50	65,000	29,650	29,650
1,064.00	76,500	35,375	65,025
1,065.00	88,000	82,250	147,275

Device	Routing	Invert	Outlet Devices
#1	Primary	1,063.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=20.94 cfs @ 12.10 hrs HW=1,063.66' TW=1,059.84' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 20.94 cfs @ 2.1 fps)

Pond C4P: GOLF COURSE POND

Hydrograph



Pond C6P: GOLF COURSE POND

Inflow Area = 14.100 ac, Inflow Depth = 2.17" for 50-yr event
 Inflow = 56.33 cfs @ 11.97 hrs, Volume= 2.549 af
 Outflow = 5.88 cfs @ 12.42 hrs, Volume= 2.144 af, Atten= 90%, Lag= 27.2 min
 Primary = 5.88 cfs @ 12.42 hrs, Volume= 2.144 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.07' @ 12.42 hrs Surf.Area= 92,315 sf Storage= 49,092 cf
 Plug-Flow detention time= 224.4 min calculated for 2.144 af (84% of inflow)
 Center-of-Mass det. time= 151.1 min (995.6 - 844.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,067.50'	185,886 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,067.50	78,544	0	0
1,068.00	92,000	42,636	42,636
1,069.50	99,000	143,250	185,886

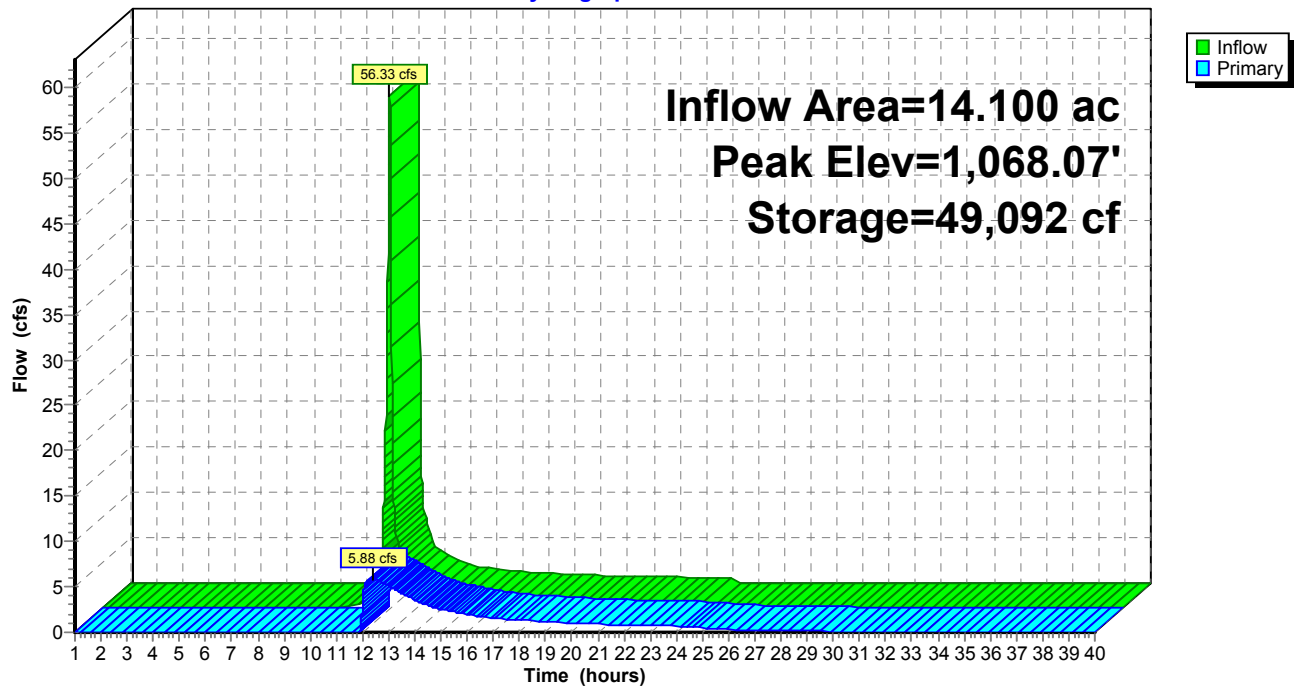
Device	Routing	Invert	Outlet Devices
#1	Primary	1,067.70'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=5.88 cfs @ 12.42 hrs HW=1,068.07' TW=1,059.87' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 5.88 cfs @ 1.6 fps)

Pond C6P: GOLF COURSE POND

Hydrograph



Pond C7P: (new node)

Inflow Area = 14.790 ac, Inflow Depth = 2.61" for 50-yr event
 Inflow = 72.52 cfs @ 11.95 hrs, Volume= 3.215 af
 Outflow = 0.70 cfs @ 24.01 hrs, Volume= 1.296 af, Atten= 99%, Lag= 724.1 min
 Primary = 0.70 cfs @ 24.01 hrs, Volume= 1.296 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.55' @ 24.01 hrs Surf.Area= 4.412 ac Storage= 2.607 af
 Plug-Flow detention time= 813.7 min calculated for 1.296 af (40% of inflow)
 Center-of-Mass det. time= 687.3 min (1,518.0 - 830.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	9.500 af	Custom Stage Data (Prismatic) Listed below

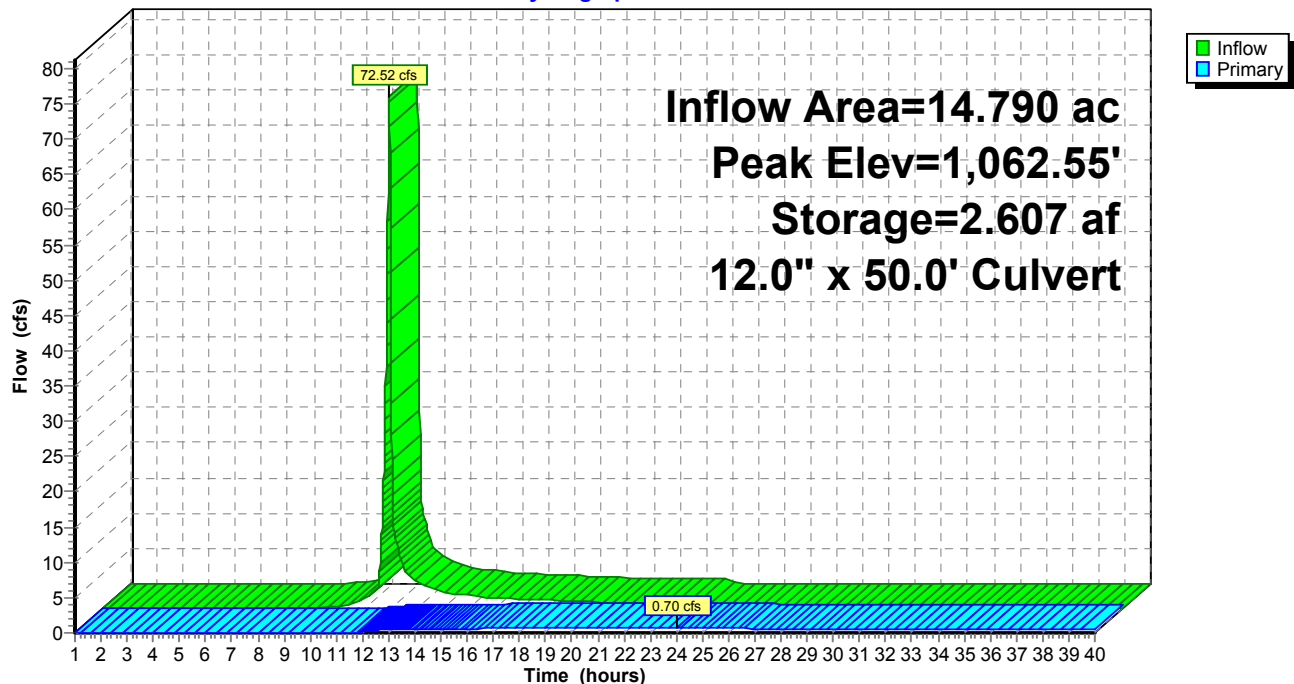
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,062.00	4.000	0.000	0.000
1,064.00	5.500	9.500	9.500

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	12.0" x 50.0' long Culvert Ke= 0.500 Outlet Invert= 1,061.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.69 cfs @ 24.01 hrs HW=1,062.55' TW=1,060.15' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.69 cfs @ 2.3 fps)

Pond C7P: (new node)

Hydrograph



Pond North Twin Lake: NORTH TWIN LAKE

Inflow Area = 570.115 ac, Inflow Depth > 0.98" for 50-yr event
 Inflow = 288.79 cfs @ 12.01 hrs, Volume= 46.796 af
 Outflow = 4.96 cfs @ 35.65 hrs, Volume= 11.412 af, Atten= 98%, Lag= 1,418.9 min
 Primary = 4.96 cfs @ 35.65 hrs, Volume= 11.412 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,061.05' @ 35.65 hrs Surf.Area= 143.039 ac Storage= 35.606 af
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 448.4 min (1,544.7 - 1,096.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	172.740 af	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	142.400	0.000	0.000
1,062.00	145.500	172.740	172.740

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	30.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.60' S= 0.0040 '/ Cc= 0.900 n= 0.024
#2	Primary	1,062.80'	100.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

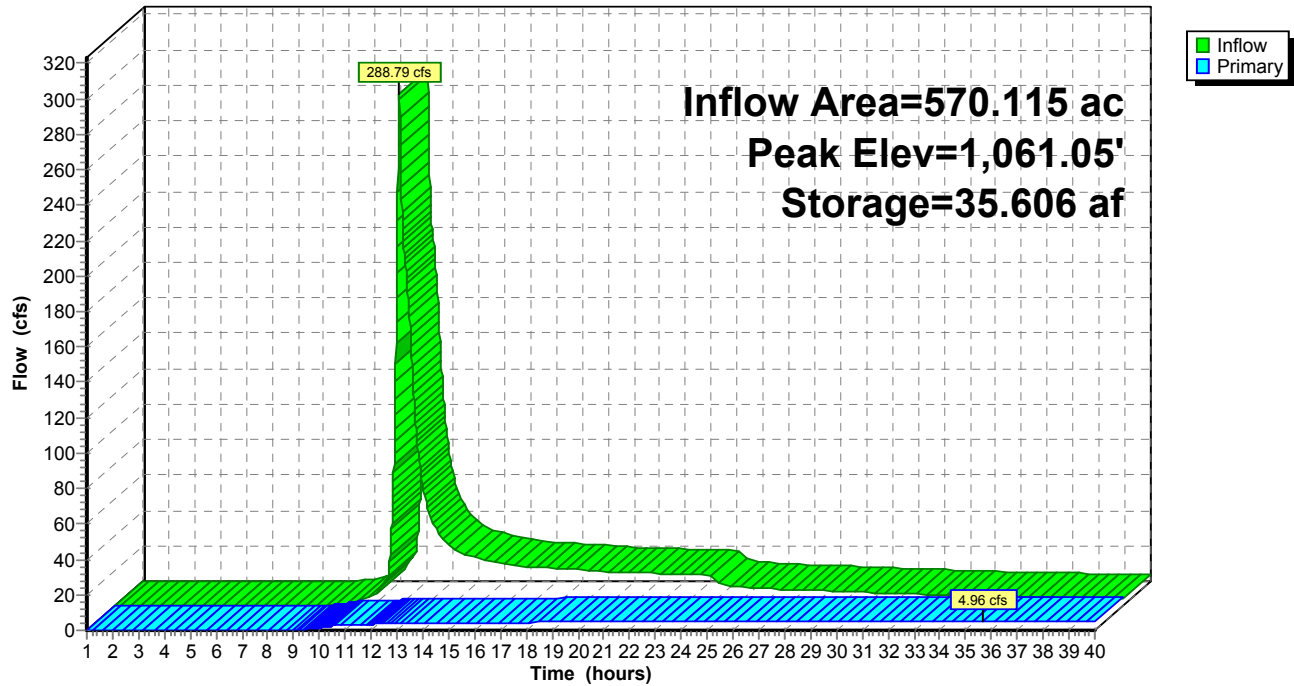
Primary OutFlow Max=4.96 cfs @ 35.65 hrs HW=1,061.05' TW=1,060.21' (Dynamic Tailwater)

1=Culvert (Barrel Controls 4.96 cfs @ 3.0 fps)

2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond North Twin Lake: NORTH TWIN LAKE

Hydrograph



Pond PIKE: PIKE LAKE

Inflow Area = 400.735 ac, Inflow Depth > 1.81" for 50-yr event
 Inflow = 570.01 cfs @ 12.03 hrs, Volume= 60.383 af
 Outflow = 10.68 cfs @ 22.71 hrs, Volume= 17.730 af, Atten= 98%, Lag= 641.1 min
 Primary = 10.68 cfs @ 22.71 hrs, Volume= 17.730 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,061.07' @ 24.33 hrs Surf.Area= 170.022 ac Storage= 46.259 af
 Plug-Flow detention time= 766.1 min calculated for 17.730 af (29% of inflow)
 Center-of-Mass det. time= 506.7 min (1,484.0 - 977.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	205.080 af	Custom Stage Data (Prismatic) Listed below

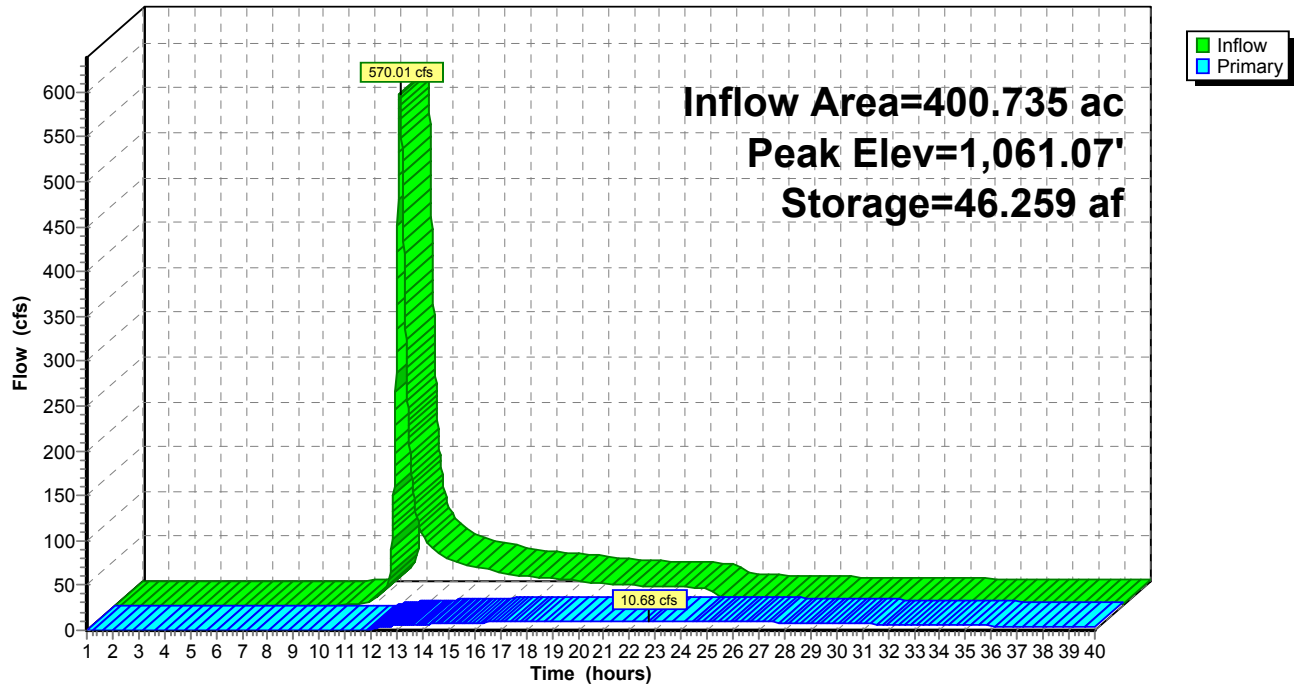
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	169.300	0.000	0.000
1,062.00	172.500	205.080	205.080

Device	Routing	Invert	Outlet Devices
#1	Primary	1,060.80'	50.0' long x 1.2' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.66 2.69 2.71 2.78 2.89 2.99 3.09 3.20 3.21 3.19 3.30 3.32

Primary OutFlow Max=10.68 cfs @ 22.71 hrs HW=1,061.06' TW=1,061.02' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 10.68 cfs @ 0.8 fps)

Pond PIKE: PIKE LAKE

Hydrograph



Pond South Twin Lake: SOUTH TWIN LAKE

Inflow Area = 693.705 ac, Inflow Depth > 0.62" for 50-yr event
 Inflow = 122.95 cfs @ 12.13 hrs, Volume= 36.089 af
 Outflow = 0.73 cfs @ 40.00 hrs, Volume= 1.055 af, Atten= 99%, Lag= 1,672.4 min
 Primary = 0.73 cfs @ 40.00 hrs, Volume= 1.055 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.24' @ 40.00 hrs Surf.Area= 77.122 ac Storage= 35.032 af
 Plug-Flow detention time= 1,122.3 min calculated for 1.055 af (3% of inflow)
 Center-of-Mass det. time= 642.9 min (1,762.8 - 1,119.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,059.80'	321.440 af	Custom Stage Data (Prismatic) Listed below

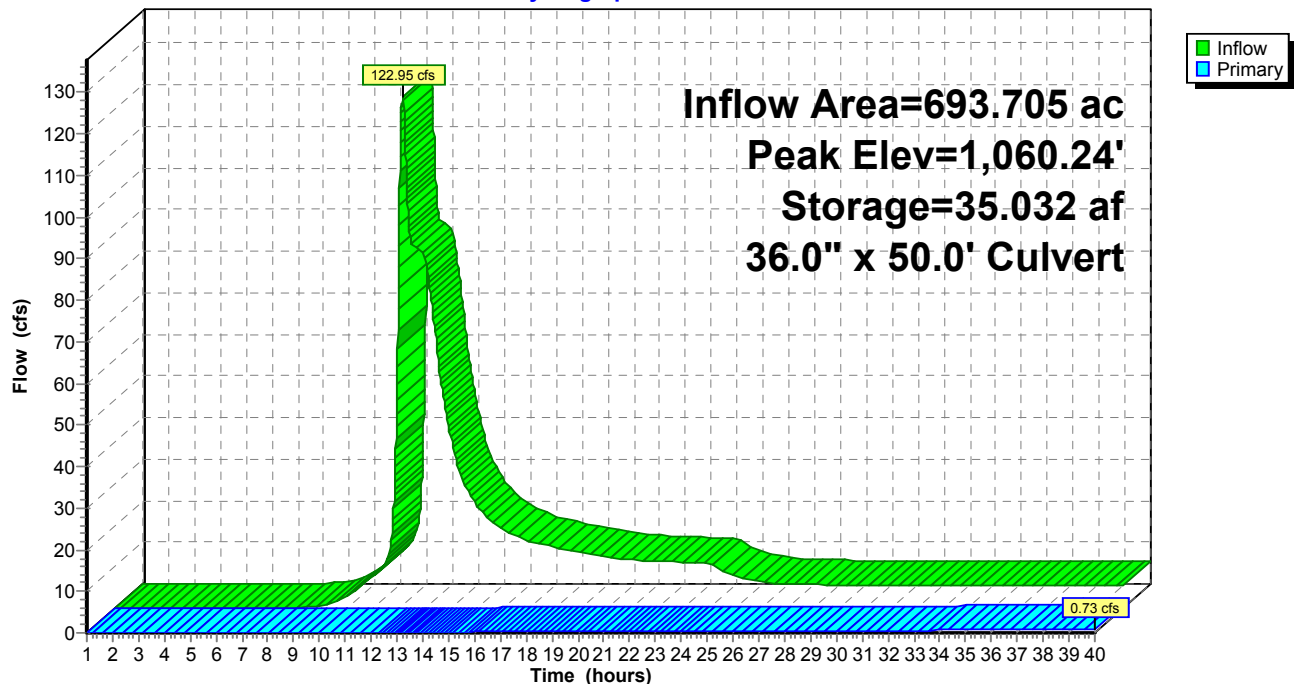
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,059.80	76.220	0.000	0.000
1,063.80	84.500	321.440	321.440

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	36.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.50' S= 0.0060 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.73 cfs @ 40.00 hrs HW=1,060.24' TW=0.00' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.73 cfs @ 1.8 fps)

Pond South Twin Lake: SOUTH TWIN LAKE

Hydrograph



Subcatchment A1: A1

Runoff = 68.50 cfs @ 12.35 hrs, Volume= 7.920 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

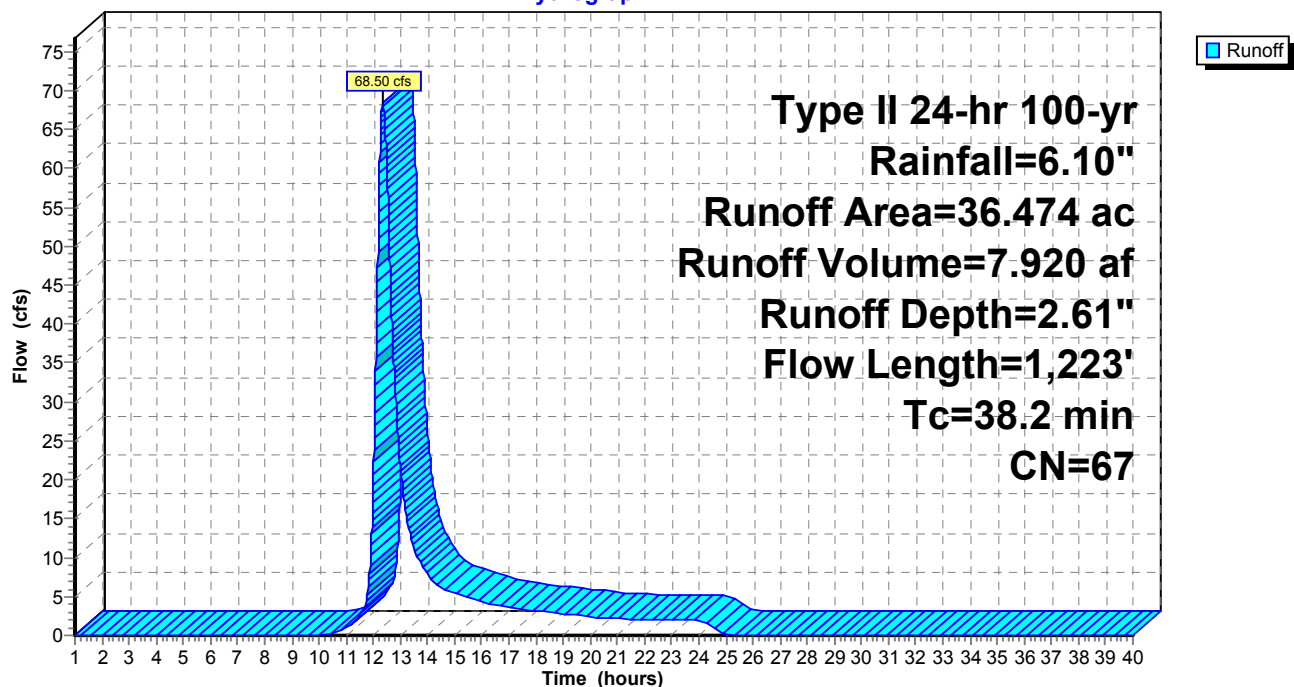
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
36.474	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	1,223	0.0200	0.5		Lag/CN Method,

Subcatchment A1: A1

Hydrograph



Subcatchment A10: A10

Runoff = 45.13 cfs @ 11.98 hrs, Volume= 2.163 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

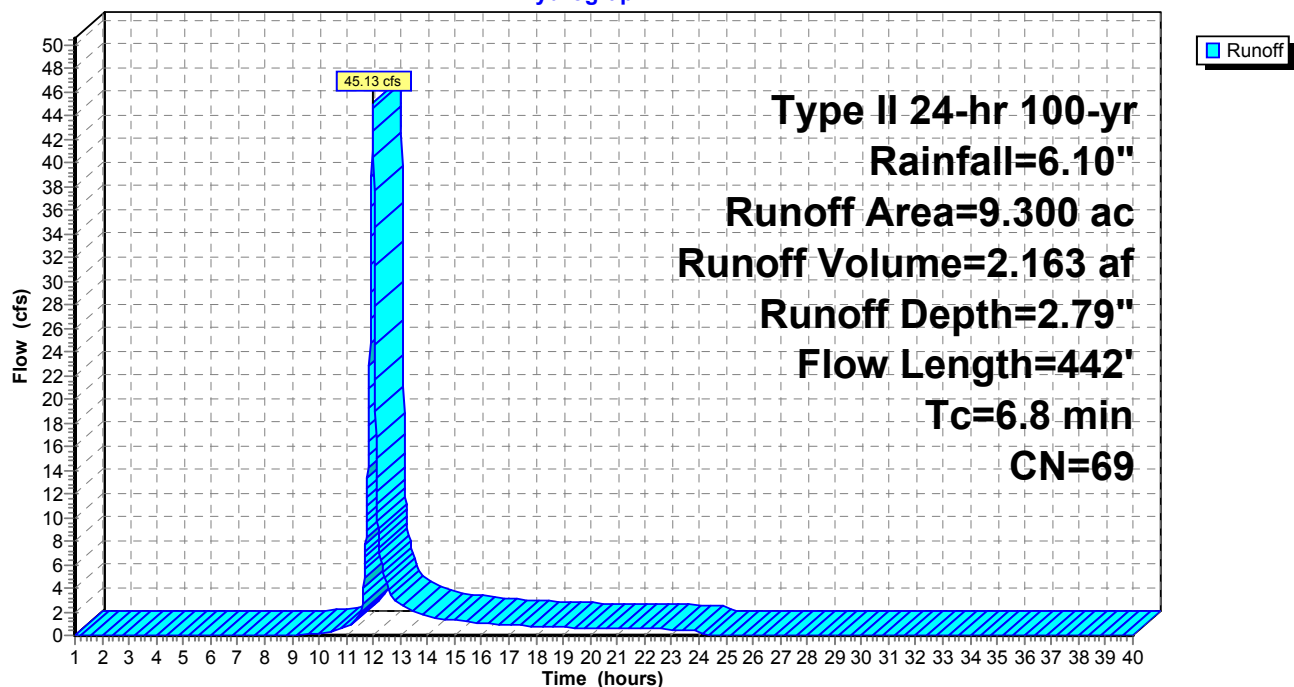
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.300	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	442	0.1100	1.1		Lag/CN Method,

Subcatchment A10: A10

Hydrograph



Subcatchment A11: A11

Runoff = 88.54 cfs @ 12.04 hrs, Volume= 5.077 af, Depth= 2.51"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

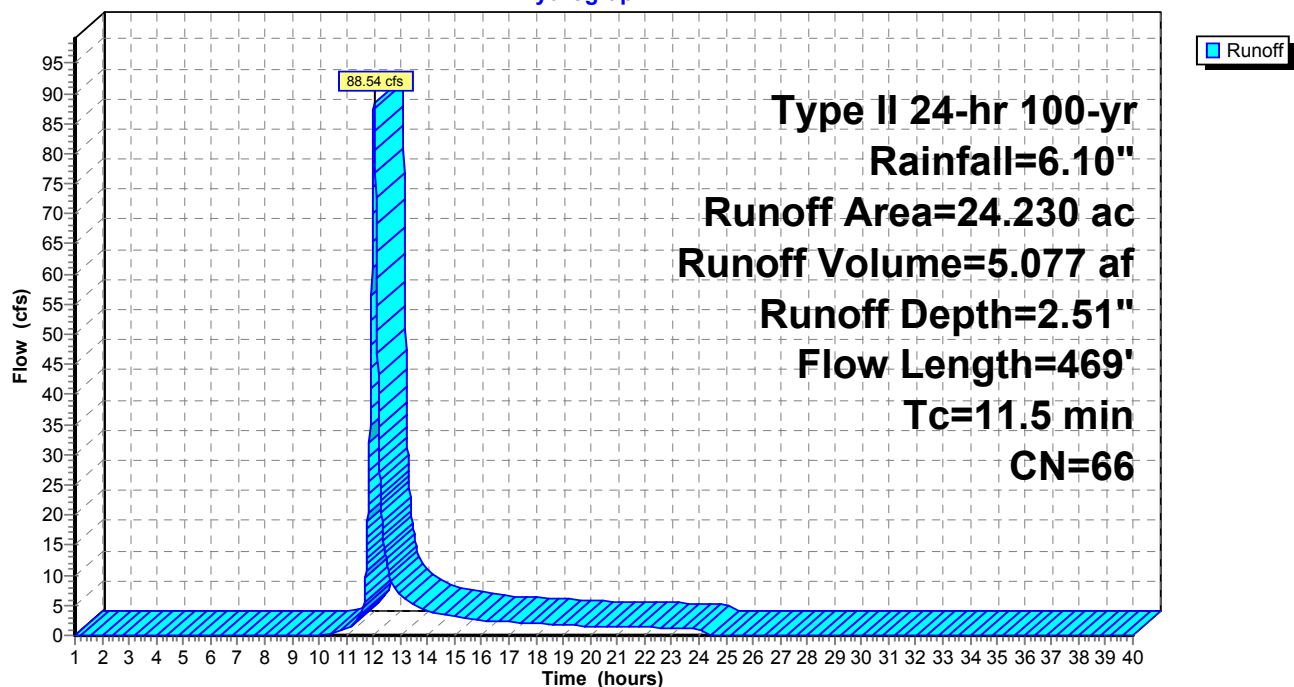
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
24.230	66	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	469	0.0500	0.7		Lag/CN Method,

Subcatchment A11: A11

Hydrograph



Subcatchment A12: A12

Runoff = 57.39 cfs @ 12.10 hrs, Volume= 4.079 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

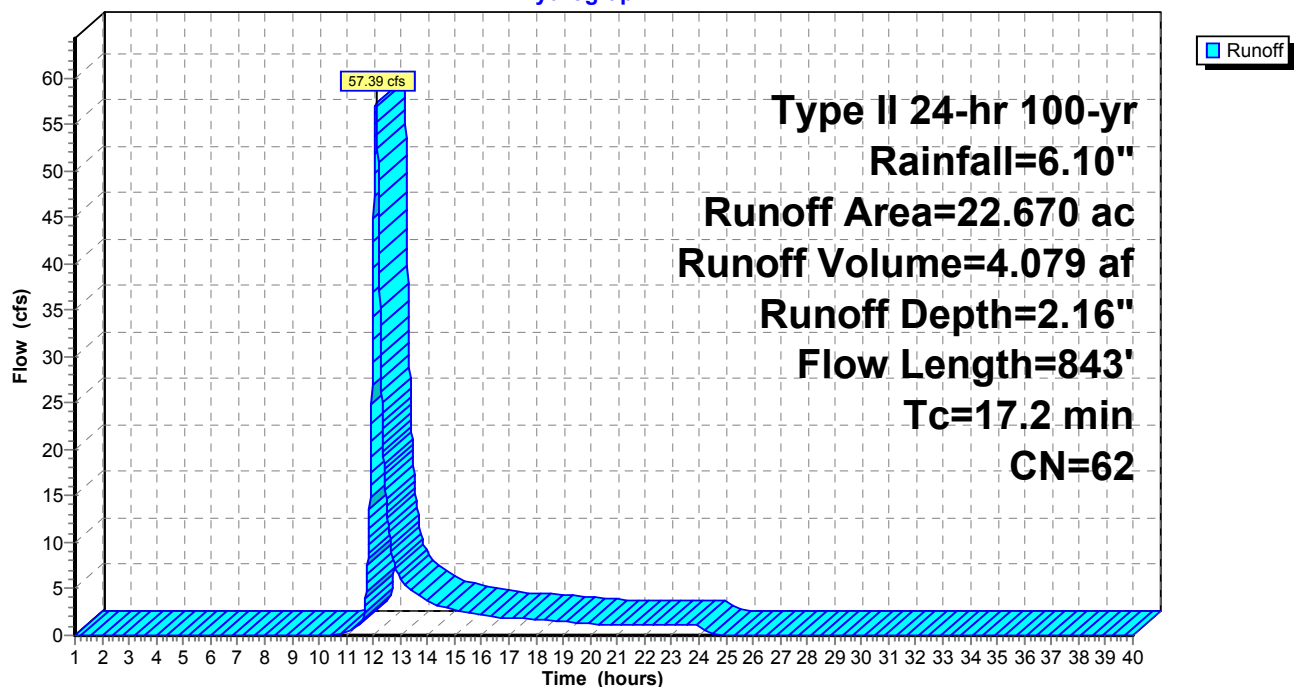
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
22.670	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	843	0.0700	0.8		Lag/CN Method,

Subcatchment A12: A12

Hydrograph



Subcatchment A13: A13

Runoff = 53.49 cfs @ 12.18 hrs, Volume= 4.586 af, Depth= 1.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

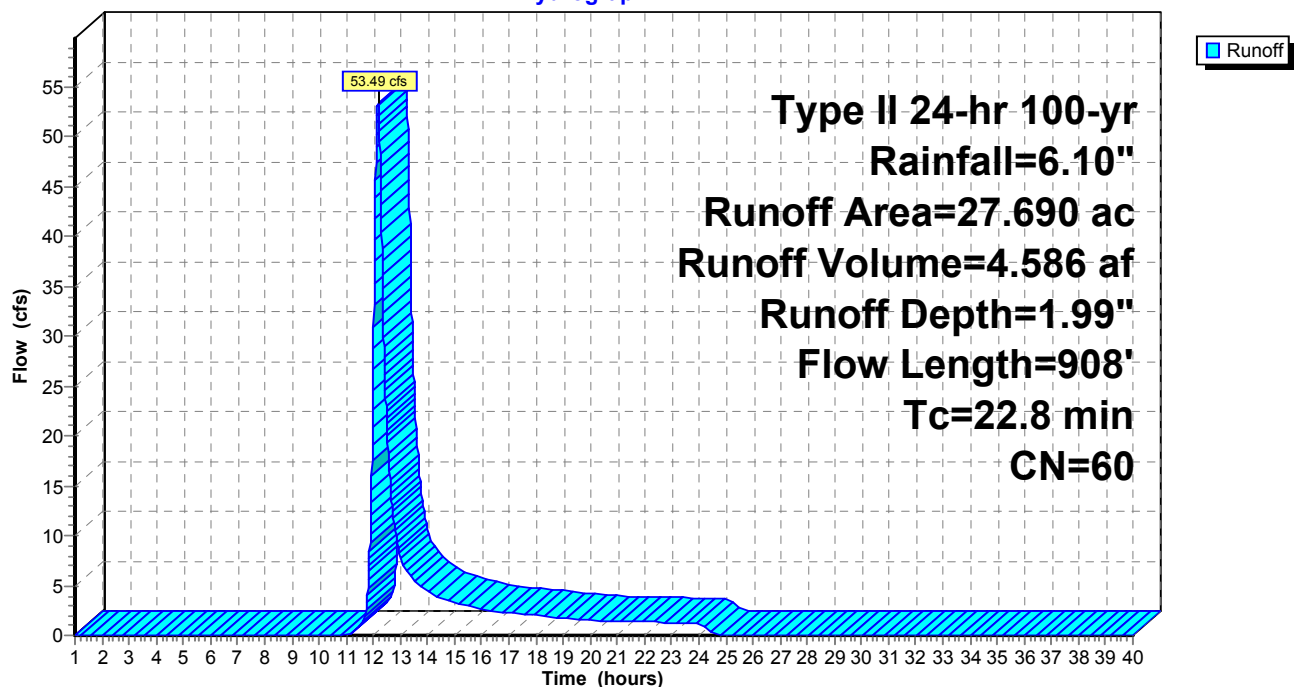
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
27.690	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	908	0.0500	0.7		Lag/CN Method,

Subcatchment A13: A13

Hydrograph



Subcatchment A2: A2

Runoff = 143.14 cfs @ 12.07 hrs, Volume= 9.227 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

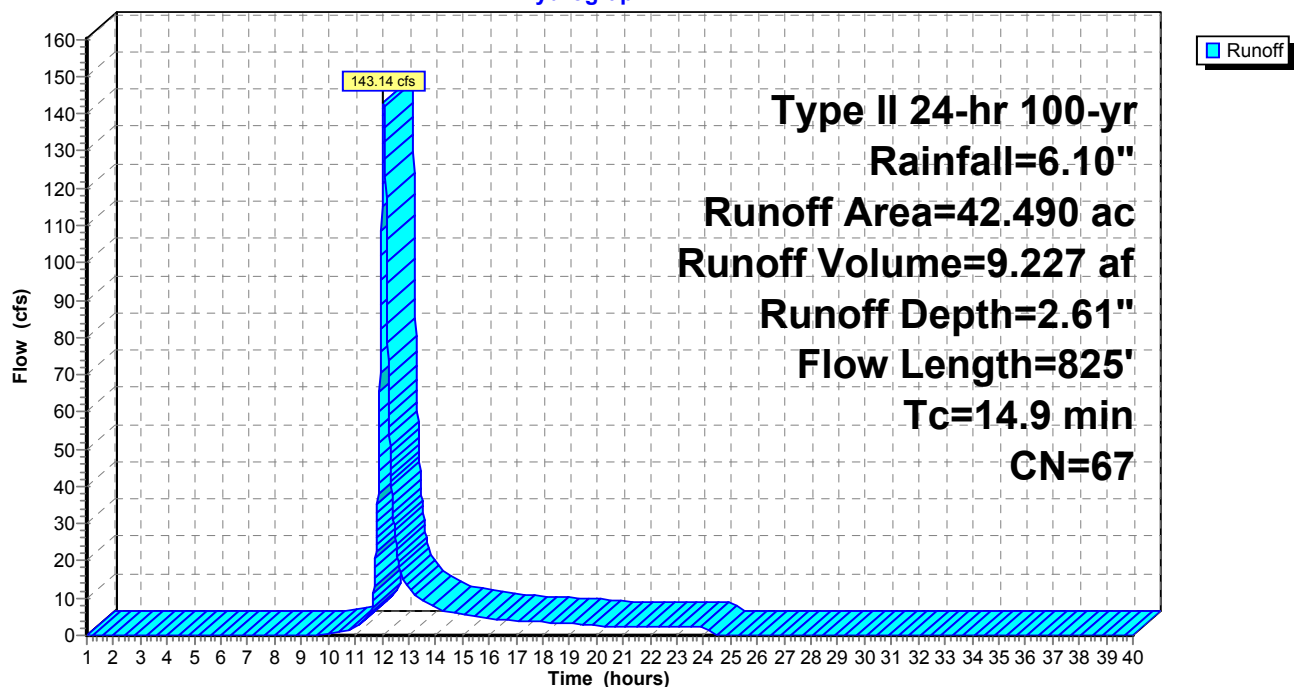
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
42.490	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	825	0.0700	0.9		Lag/CN Method,

Subcatchment A2: A2

Hydrograph



Subcatchment A3: A3

Runoff = 95.07 cfs @ 12.13 hrs, Volume= 7.073 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

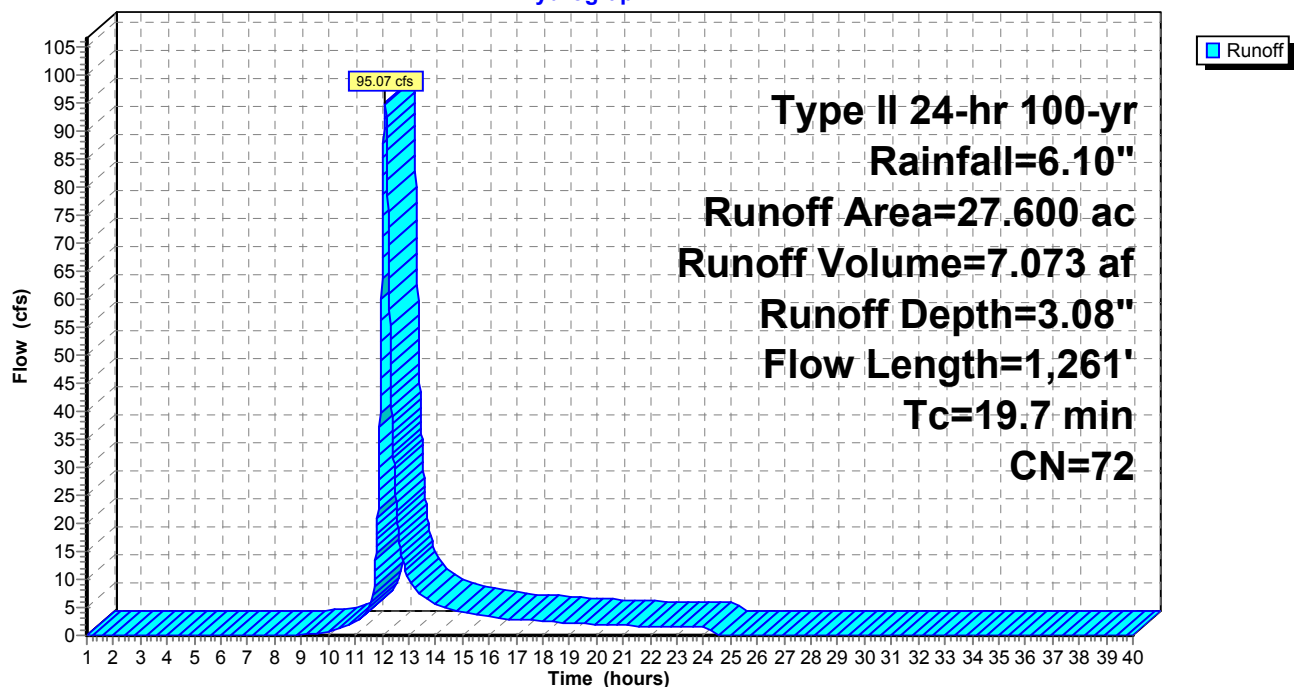
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
27.600	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	1,261	0.0600	1.1		Lag/CN Method,

Subcatchment A3: A3

Hydrograph



Subcatchment A4: A4

Runoff = 75.89 cfs @ 12.32 hrs, Volume= 8.173 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

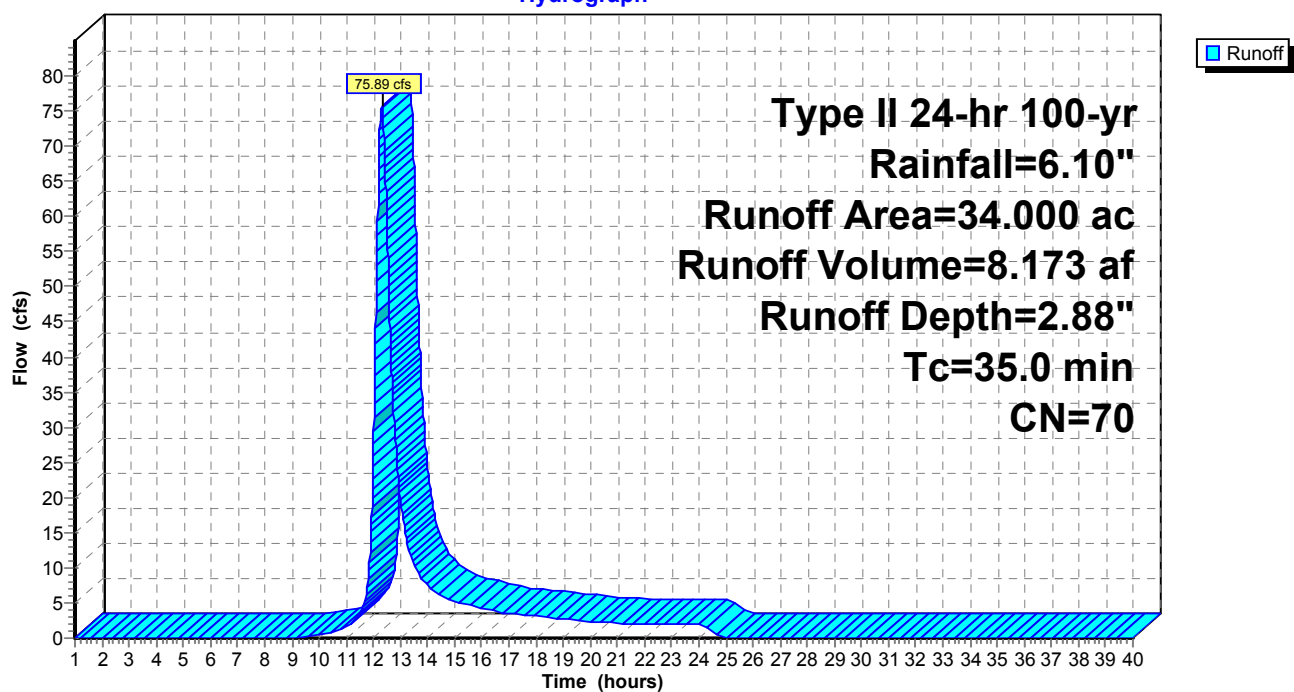
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.000	100	WATER
19.000	60	Woods, Fair, HSG B
10.000	74	Row crops, C + CR, Good, HSG B
34.000	70	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.0					Direct Entry,

Subcatchment A4: A4

Hydrograph



Subcatchment A5: A5

Runoff = 70.66 cfs @ 12.05 hrs, Volume= 4.406 af, Depth= 3.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

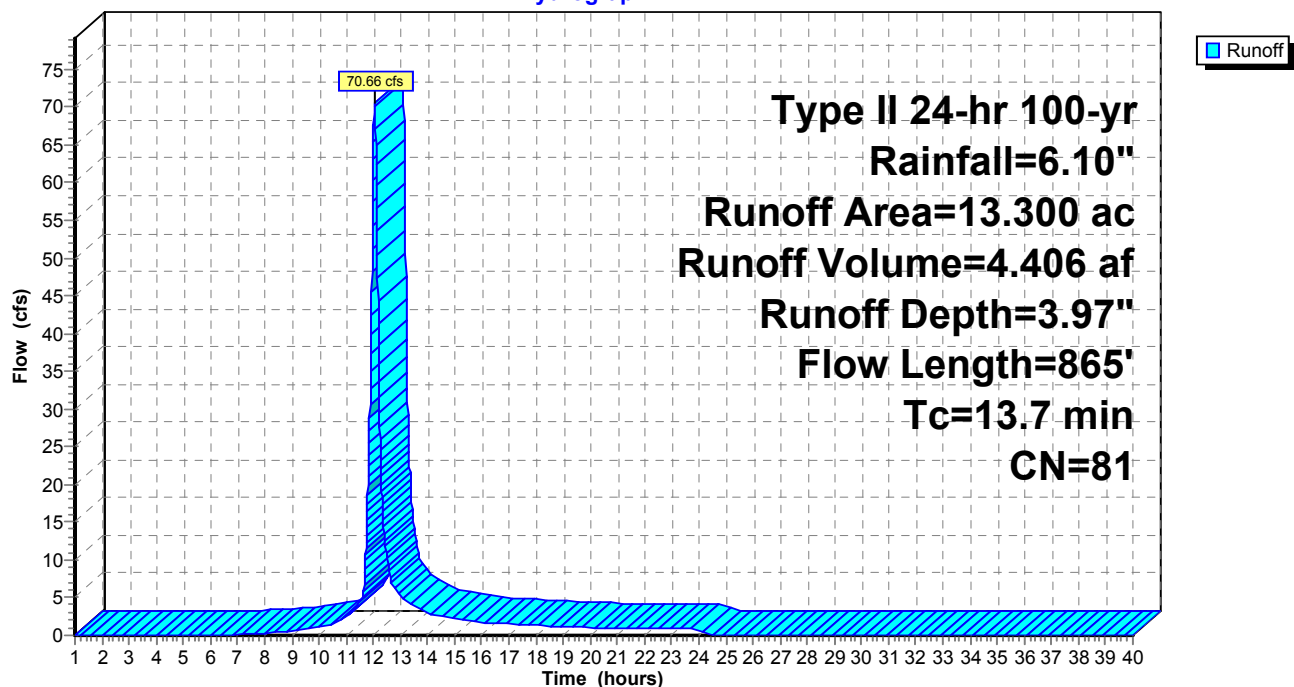
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
13.300	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	865	0.0400	1.1		Lag/CN Method,

Subcatchment A5: A5

Hydrograph



Subcatchment A6: A6

Runoff = 51.06 cfs @ 12.13 hrs, Volume= 3.905 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

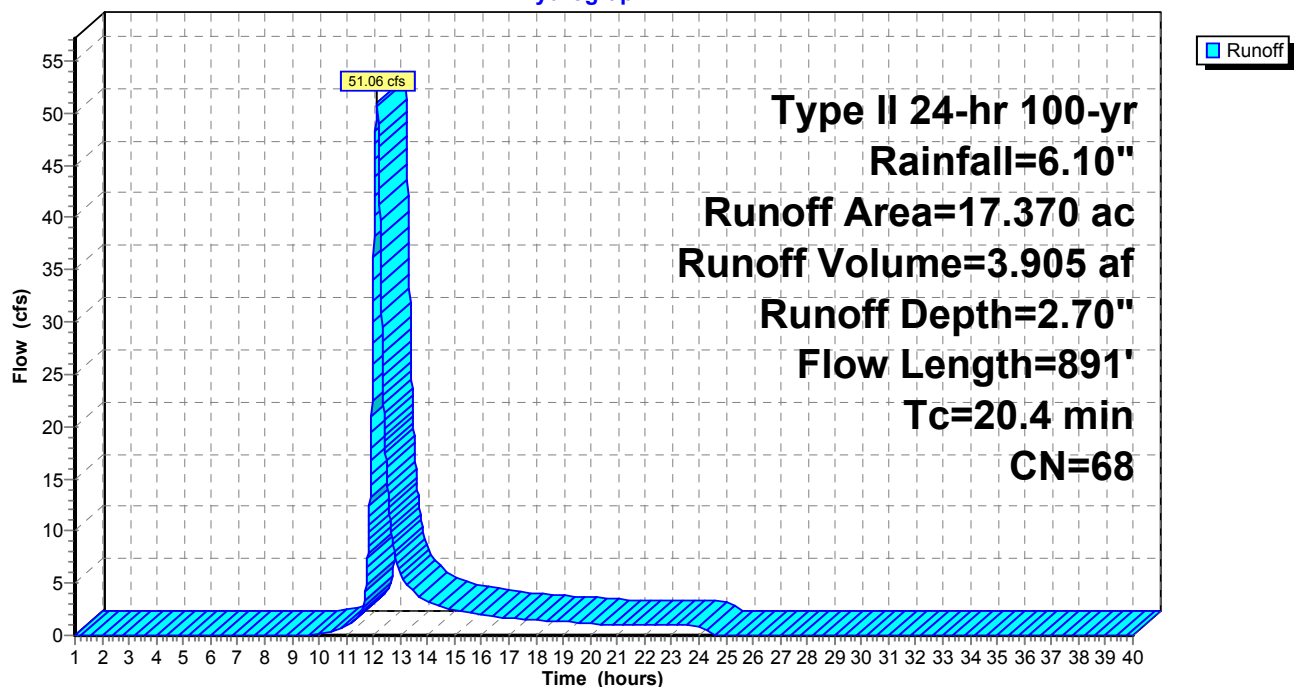
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
17.370	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	891	0.0400	0.7		Lag/CN Method,

Subcatchment A6: A6

Hydrograph



Subcatchment A7: A7

Runoff = 26.47 cfs @ 12.20 hrs, Volume= 2.525 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

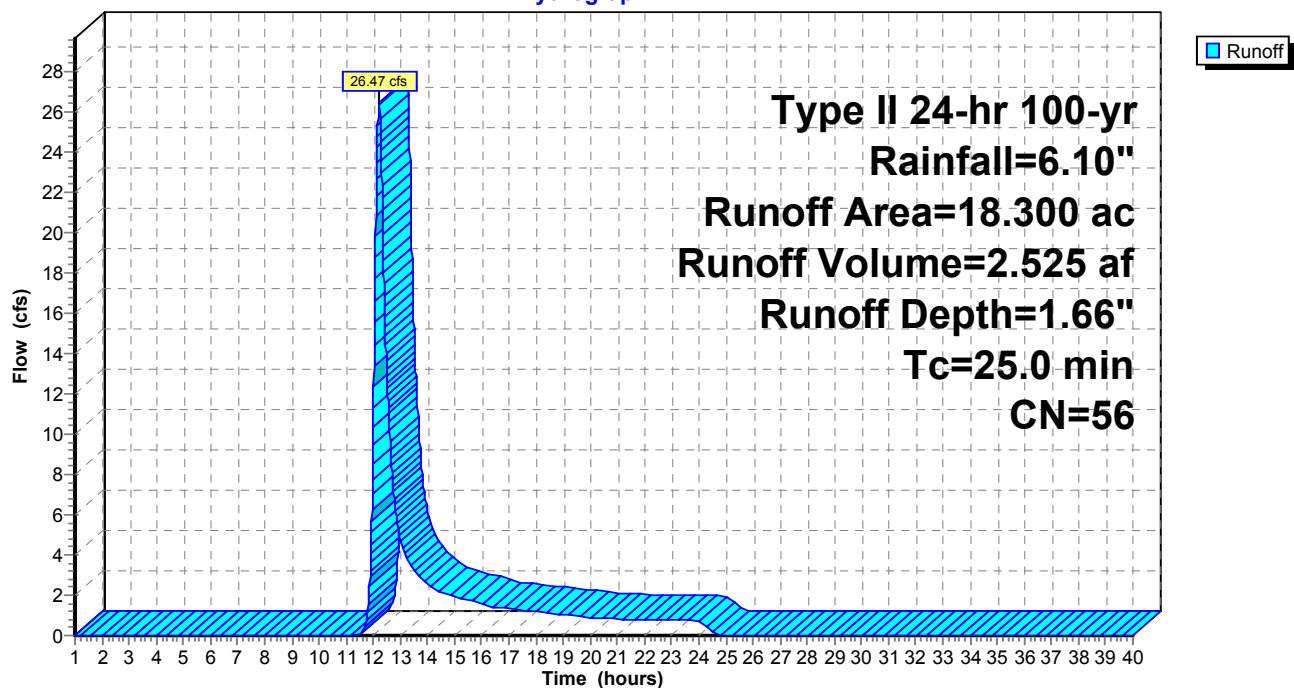
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
1.000	100	WATER
3.000	70	FARM
7.300	64	Row crops, C + CR, Good, HSG A
7.000	36	Woods, Fair, HSG A
18.300	56	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.0					Direct Entry,

Subcatchment A7: A7

Hydrograph



Subcatchment A9: A9

Runoff = 53.71 cfs @ 12.03 hrs, Volume= 3.050 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

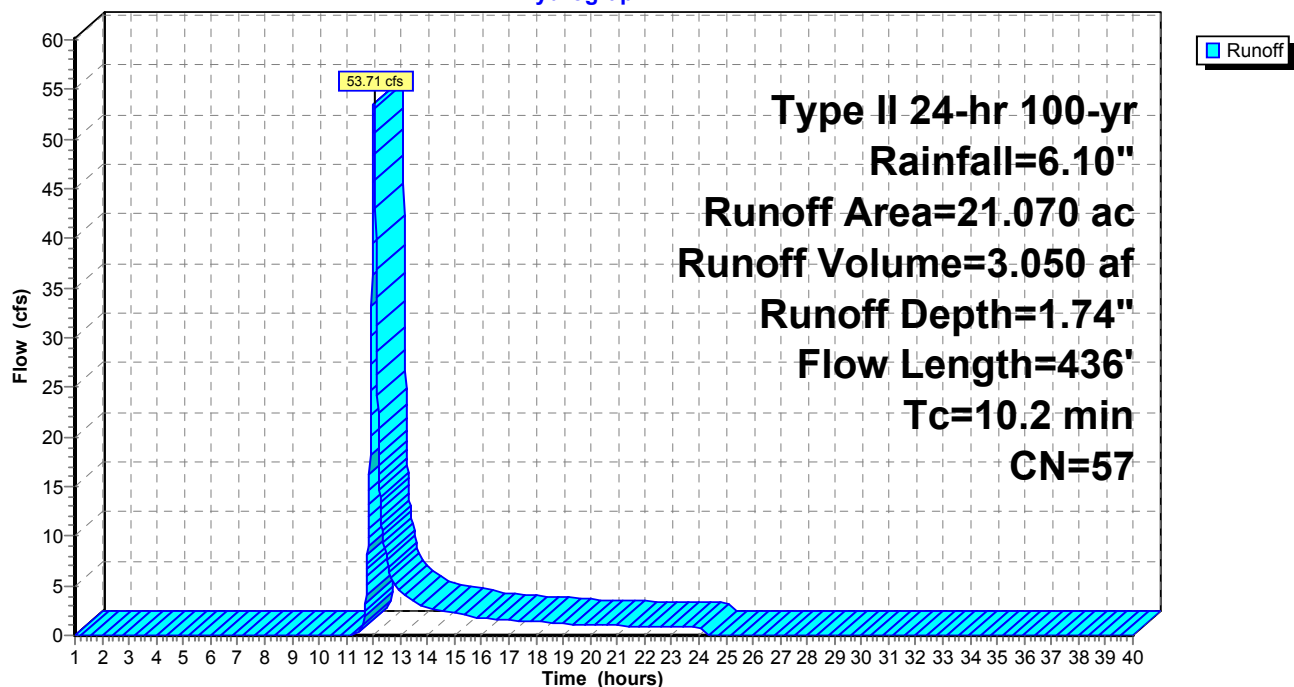
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
21.070	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	436	0.0900	0.7		Lag/CN Method,

Subcatchment A9: A9

Hydrograph



Subcatchment B1: B1

Runoff = 92.12 cfs @ 12.26 hrs, Volume= 9.203 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

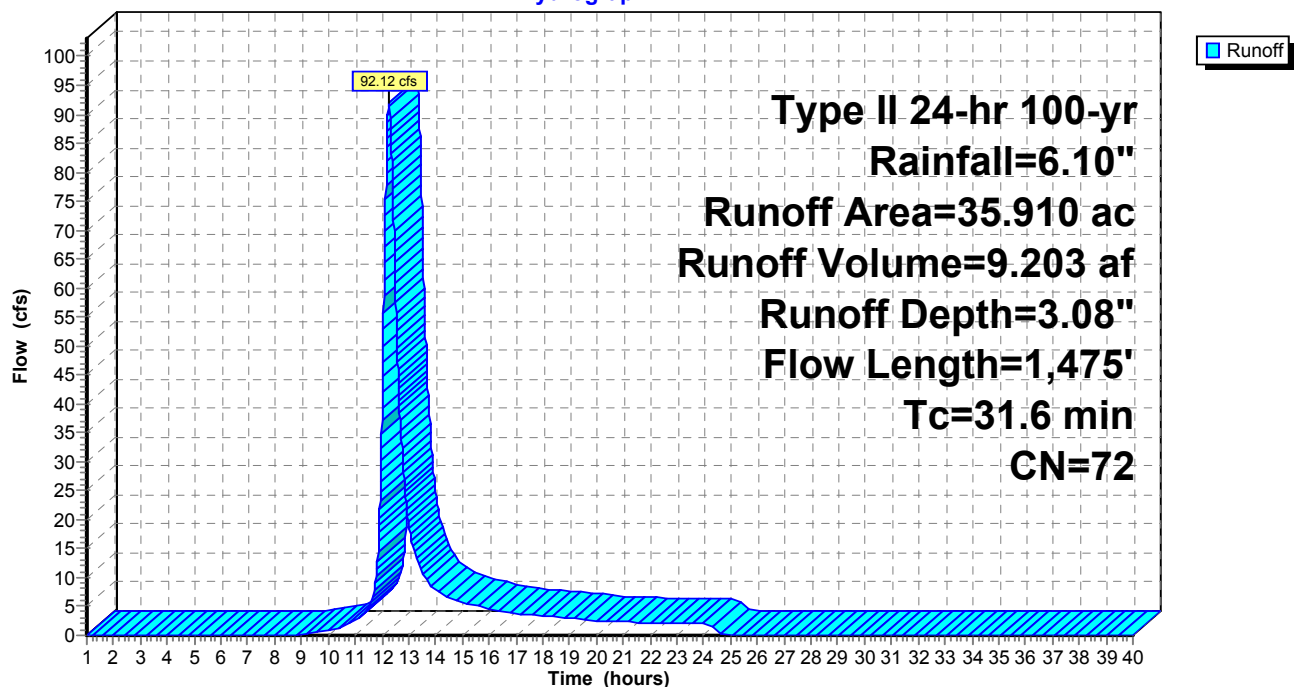
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
35.910	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.6	1,475	0.0300	0.8		Lag/CN Method,

Subcatchment B1: B1

Hydrograph



Subcatchment B10: B10

Runoff = 35.14 cfs @ 11.96 hrs, Volume= 1.570 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

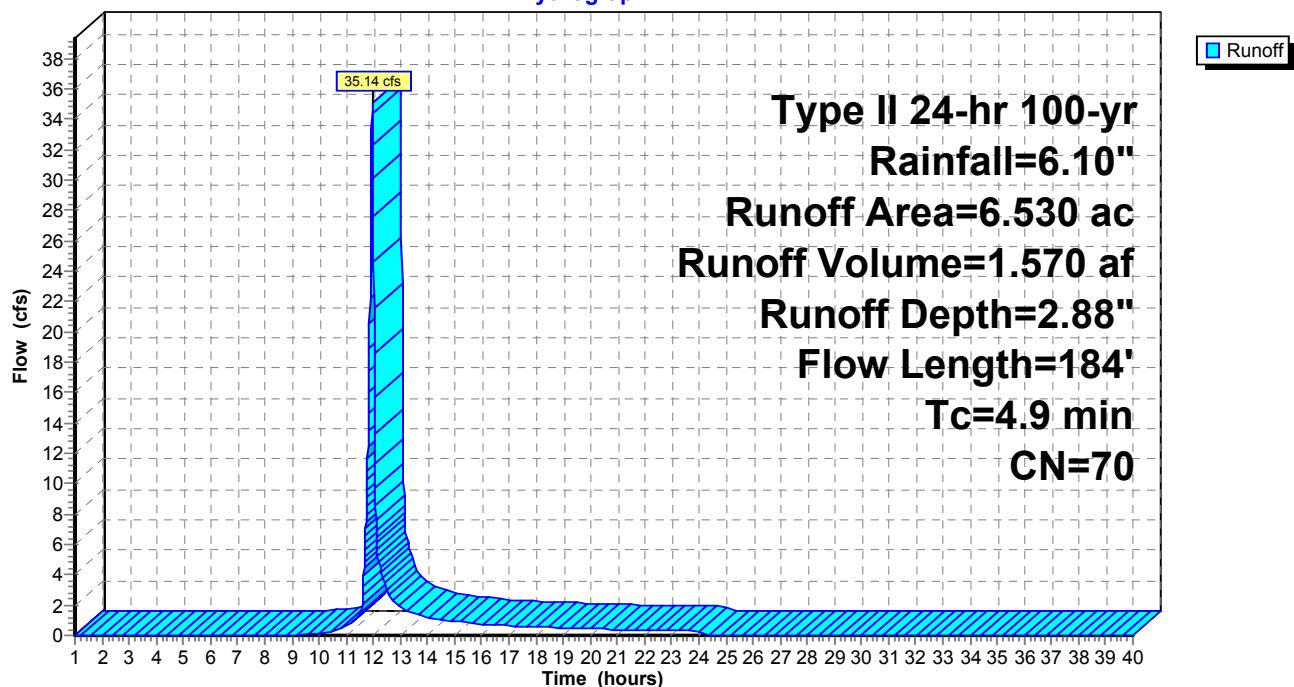
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
6.530	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	184	0.0500	0.6		Lag/CN Method,

Subcatchment B10: B10

Hydrograph



Subcatchment B11: B11

Runoff = 24.60 cfs @ 12.36 hrs, Volume= 2.819 af, Depth= 3.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

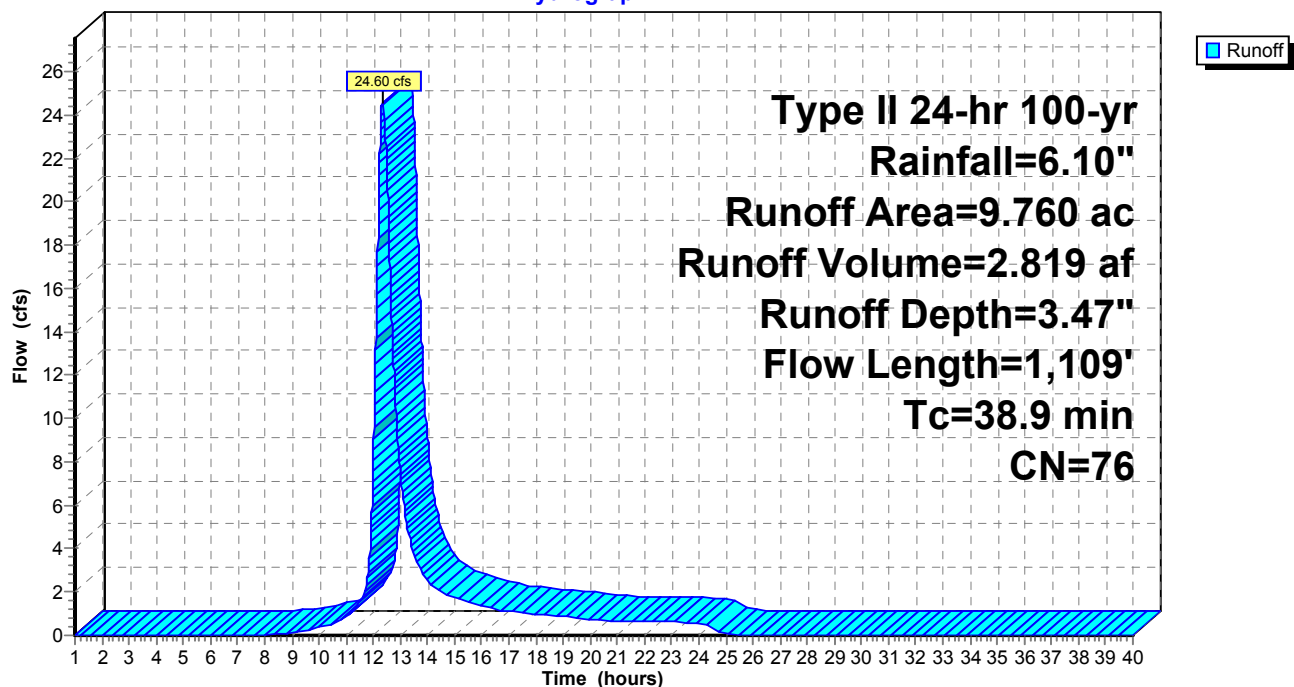
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.760	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.9	1,109	0.0100	0.5		Lag/CN Method,

Subcatchment B11: B11

Hydrograph



Subcatchment B12: B12

Runoff = 22.31 cfs @ 11.99 hrs, Volume= 1.158 af, Depth= 4.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

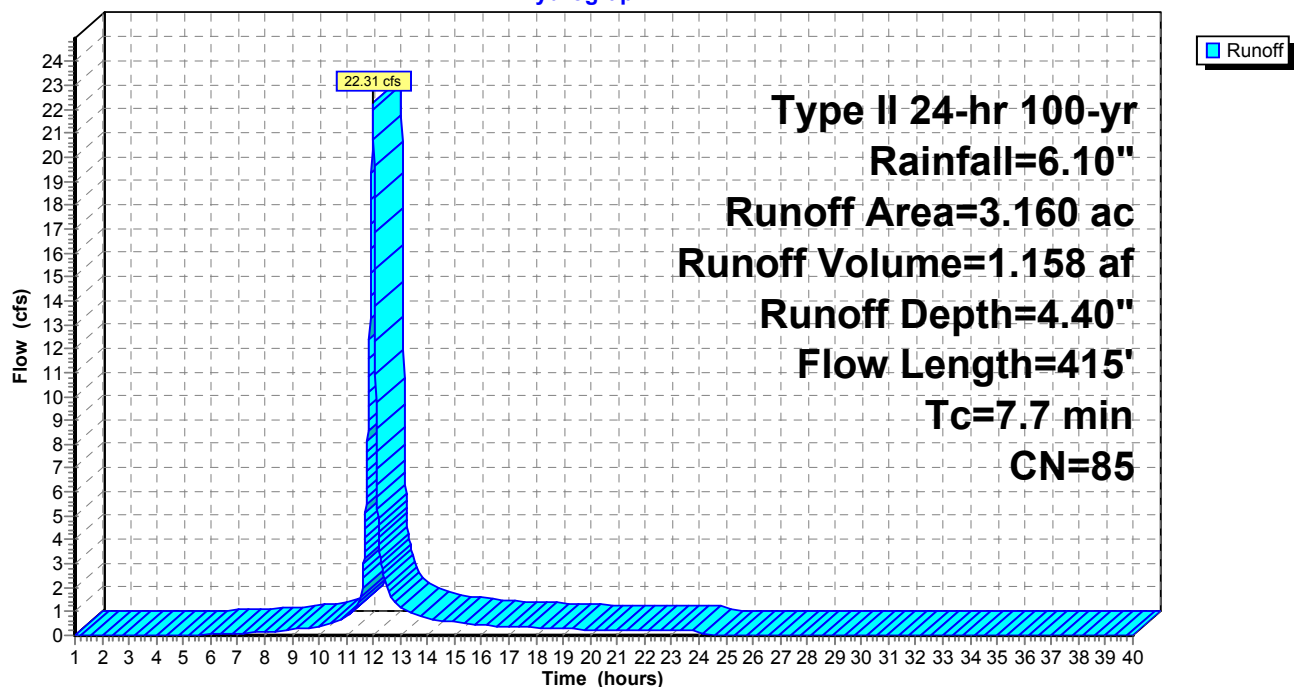
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
3.160	85	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	415	0.0300	0.9		Lag/CN Method,

Subcatchment B12: B12

Hydrograph



Subcatchment B13: B13

Runoff = 40.38 cfs @ 12.00 hrs, Volume= 2.026 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

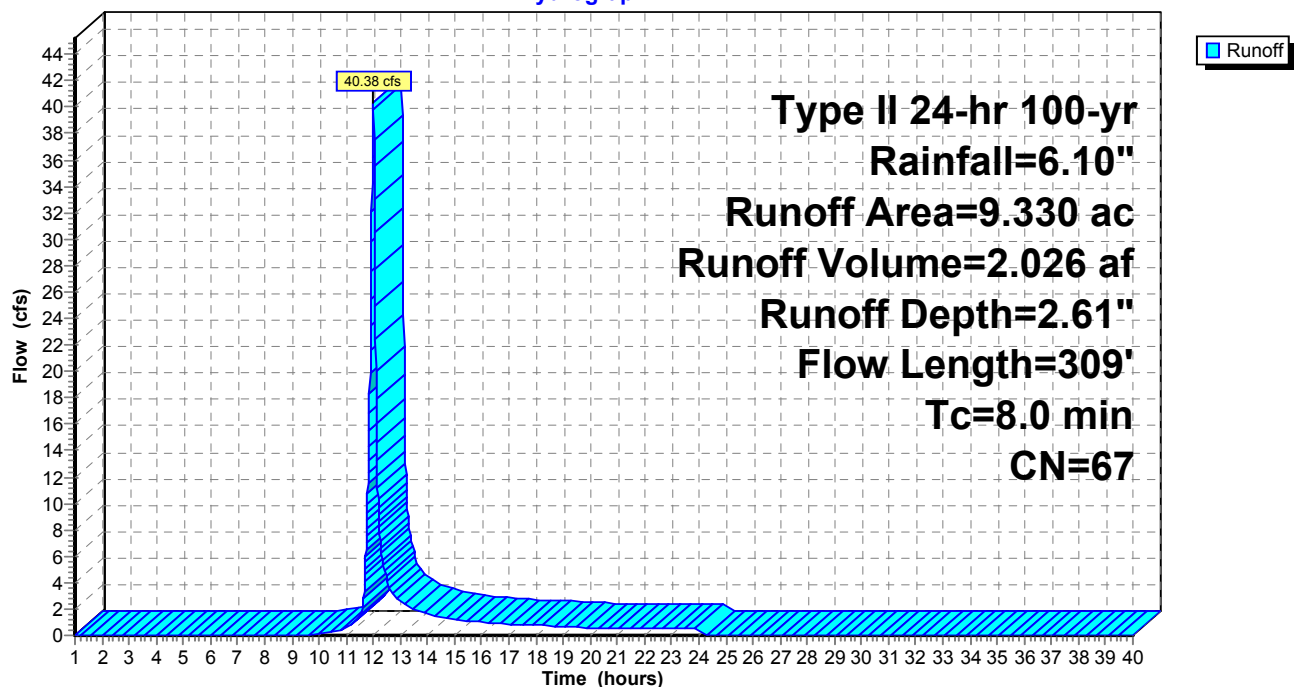
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.330	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	309	0.0500	0.6		Lag/CN Method,

Subcatchment B13: B13

Hydrograph



Subcatchment B2: B2

Runoff = 41.51 cfs @ 12.00 hrs, Volume= 2.116 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

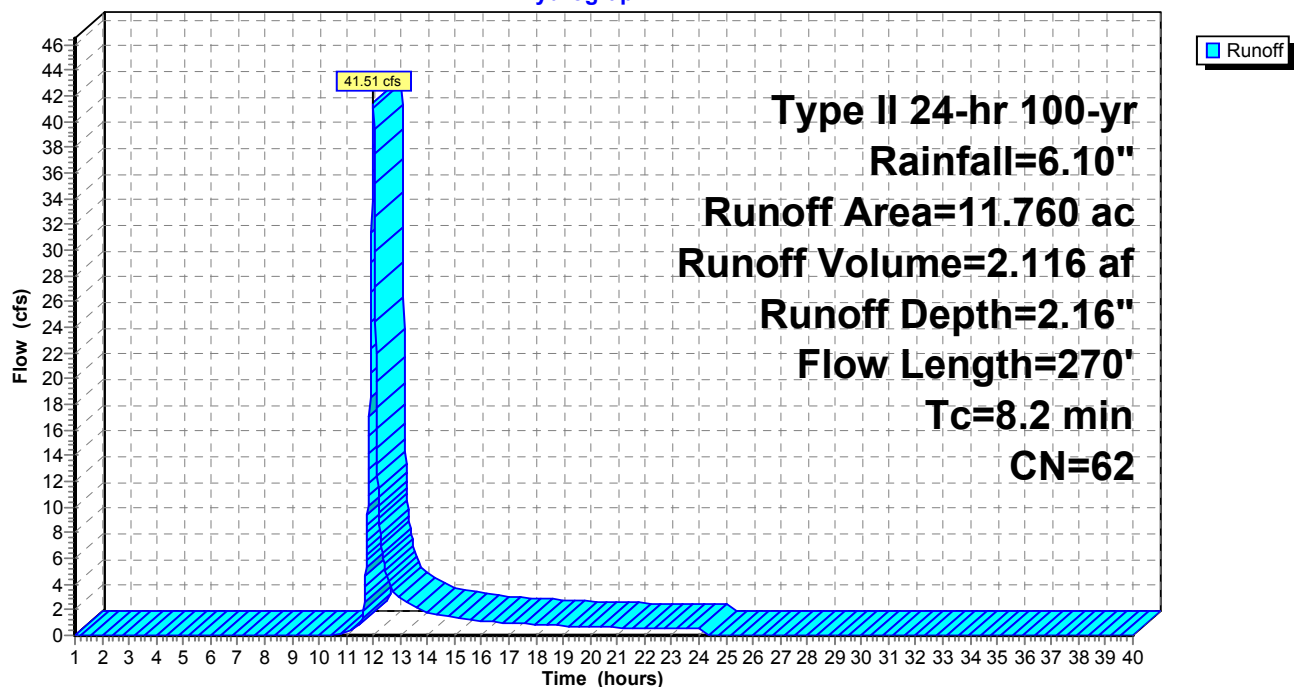
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
11.760	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	270	0.0500	0.5		Lag/CN Method,

Subcatchment B2: B2

Hydrograph



Subcatchment B3: B3

Runoff = 46.16 cfs @ 11.95 hrs, Volume= 2.017 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

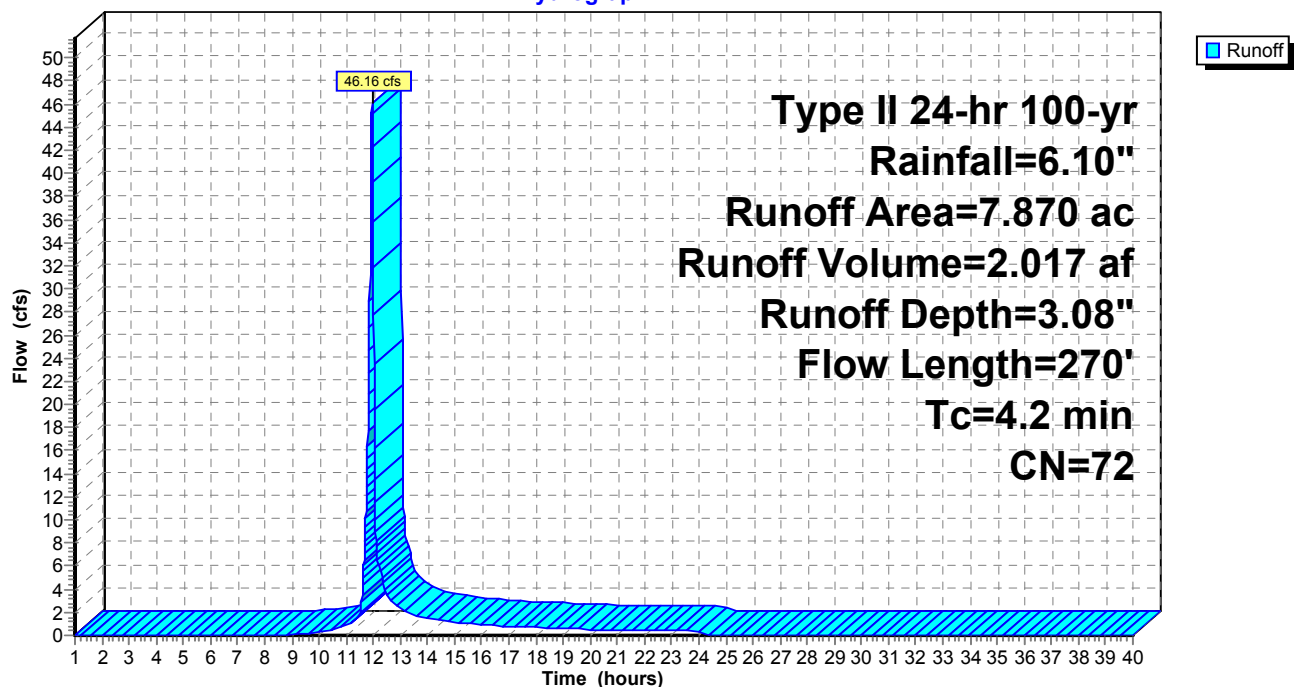
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.870	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	270	0.1100	1.1		Lag/CN Method,

Subcatchment B3: B3

Hydrograph



Subcatchment B4: B4

Runoff = 11.38 cfs @ 12.31 hrs, Volume= 1.276 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

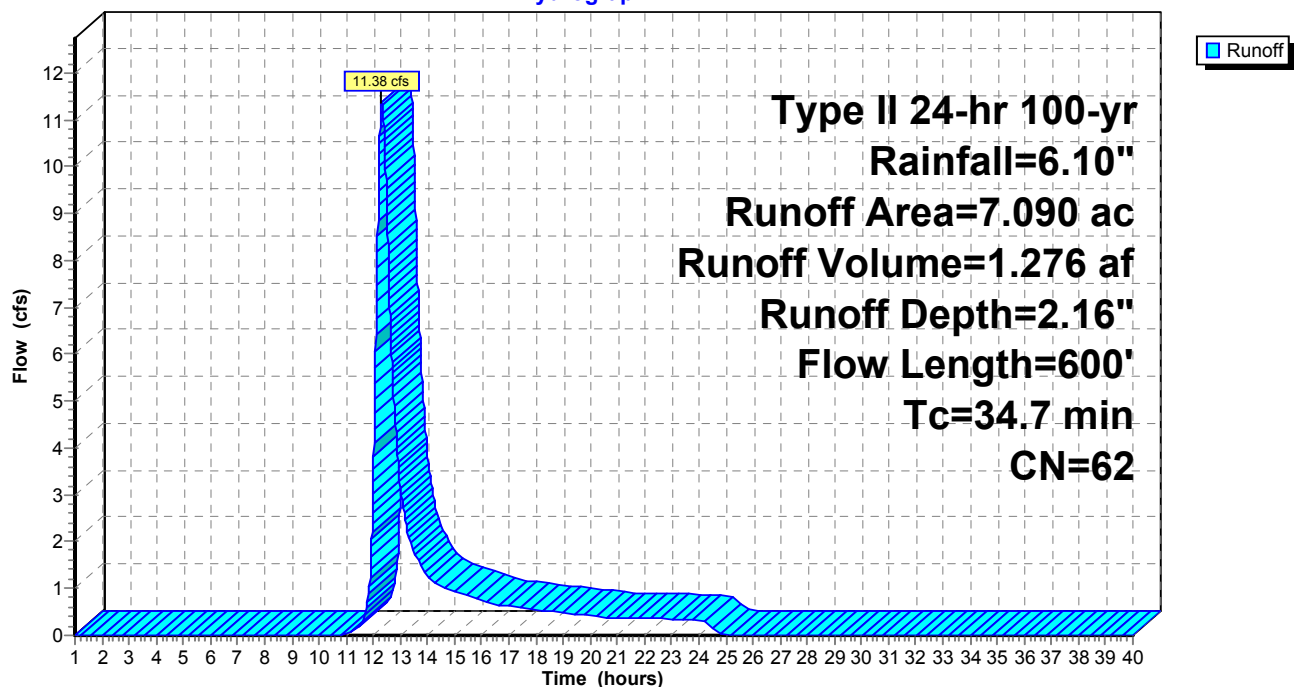
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.090	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.7	600	0.0100	0.3		Lag/CN Method,

Subcatchment B4: B4

Hydrograph



Subcatchment B5: B5

Runoff = 122.08 cfs @ 12.03 hrs, Volume= 6.738 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

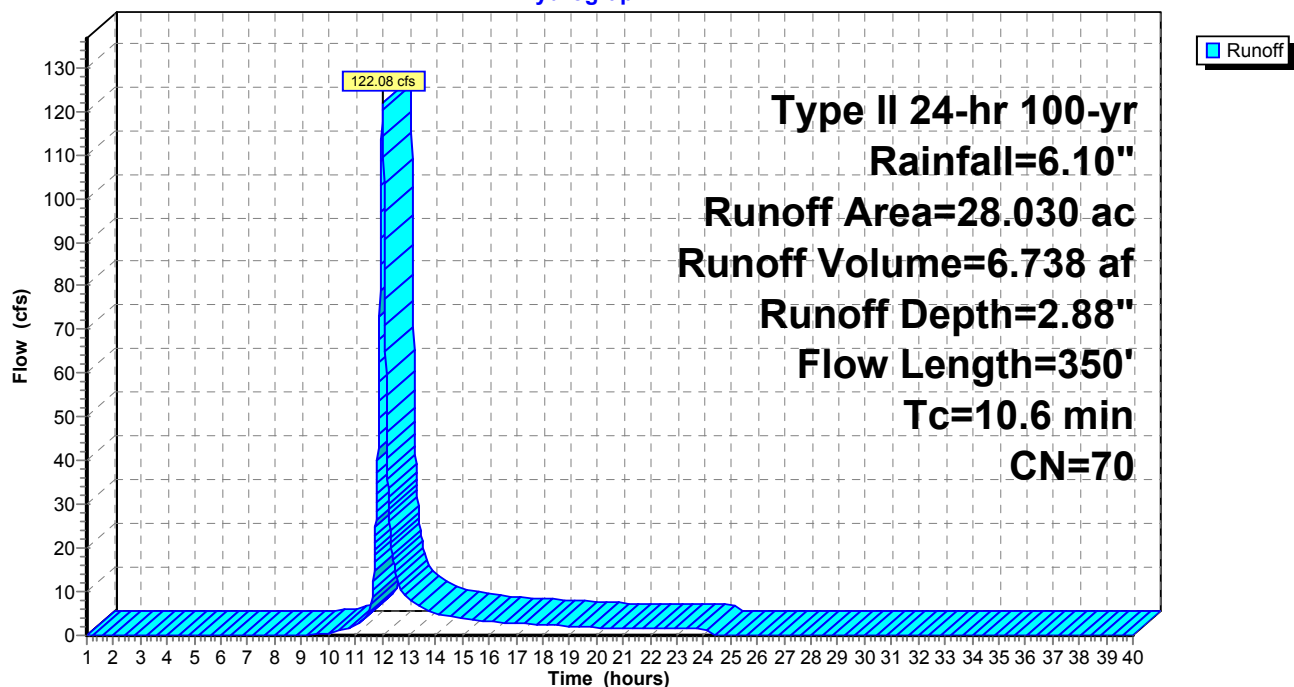
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
28.030	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	350	0.0300	0.6		Lag/CN Method,

Subcatchment B5: B5

Hydrograph



Subcatchment B6: B6

Runoff = 69.43 cfs @ 12.01 hrs, Volume= 3.613 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

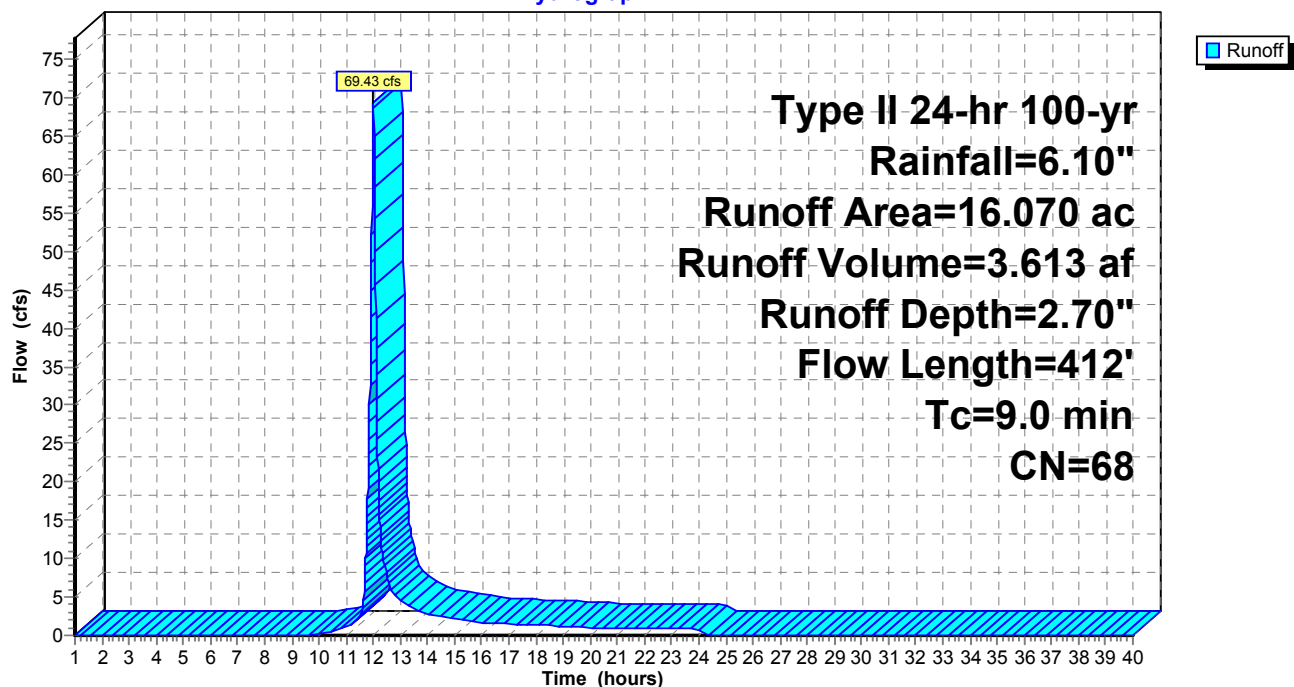
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
16.070	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	412	0.0600	0.8		Lag/CN Method,

Subcatchment B6: B6

Hydrograph



Subcatchment B7: B7

Runoff = 26.60 cfs @ 12.33 hrs, Volume= 2.995 af, Depth= 2.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

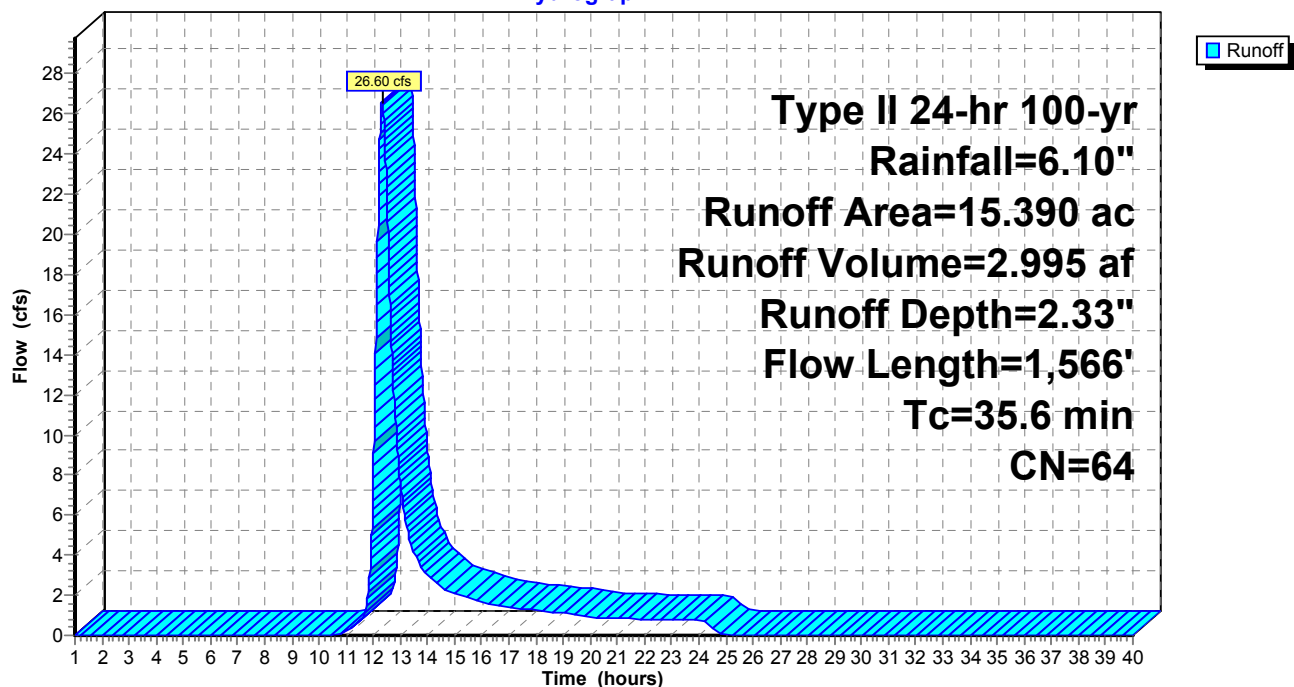
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
15.390	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.6	1,566	0.0400	0.7		Lag/CN Method,

Subcatchment B7: B7

Hydrograph



Subcatchment B8: B8

Runoff = 31.32 cfs @ 12.06 hrs, Volume= 1.935 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

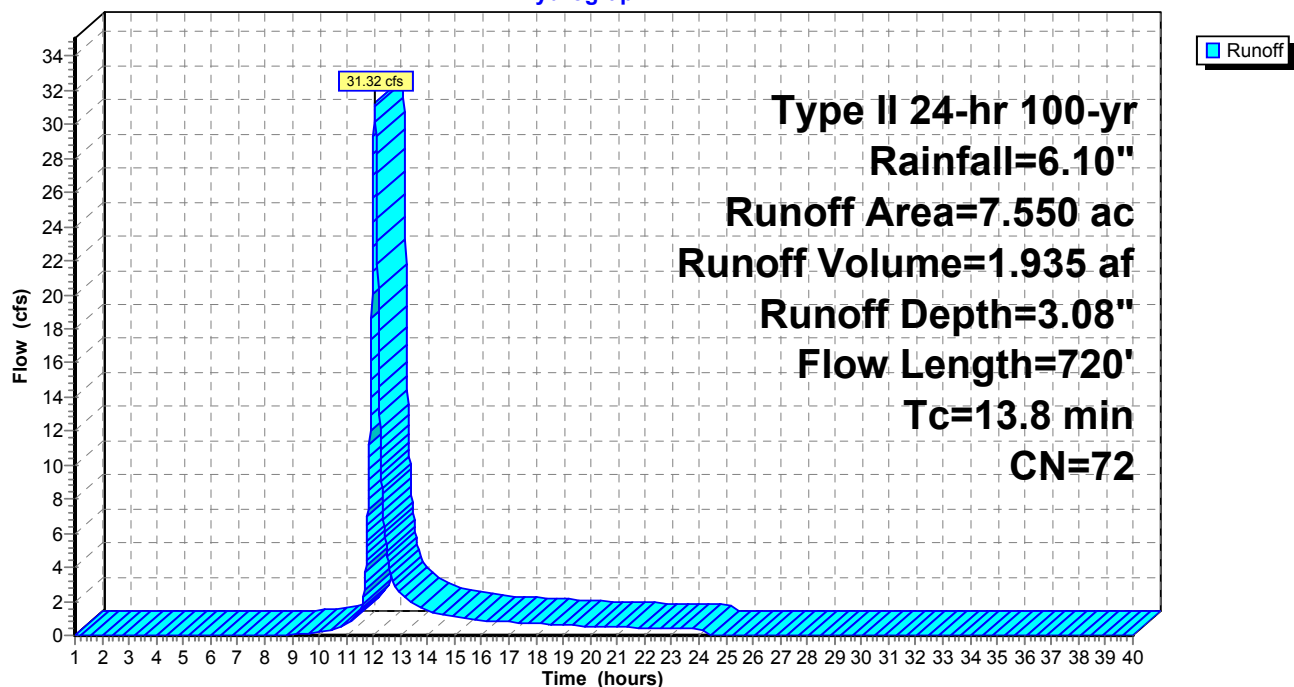
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.550	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	720	0.0500	0.9		Lag/CN Method,

Subcatchment B8: B8

Hydrograph



Subcatchment B9: B9

Runoff = 45.71 cfs @ 12.20 hrs, Volume= 4.013 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

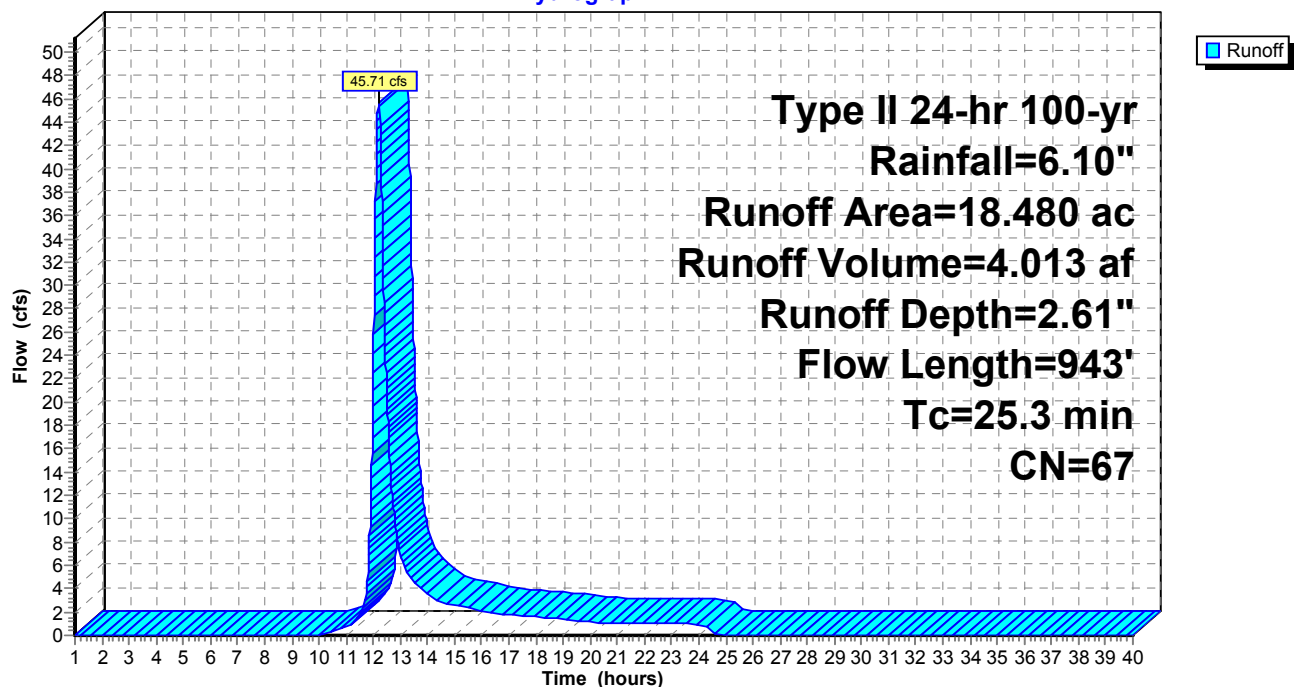
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.480	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.3	943	0.0300	0.6		Lag/CN Method,

Subcatchment B9: B9

Hydrograph



Subcatchment C1: C1

Runoff = 57.60 cfs @ 12.11 hrs, Volume= 4.052 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

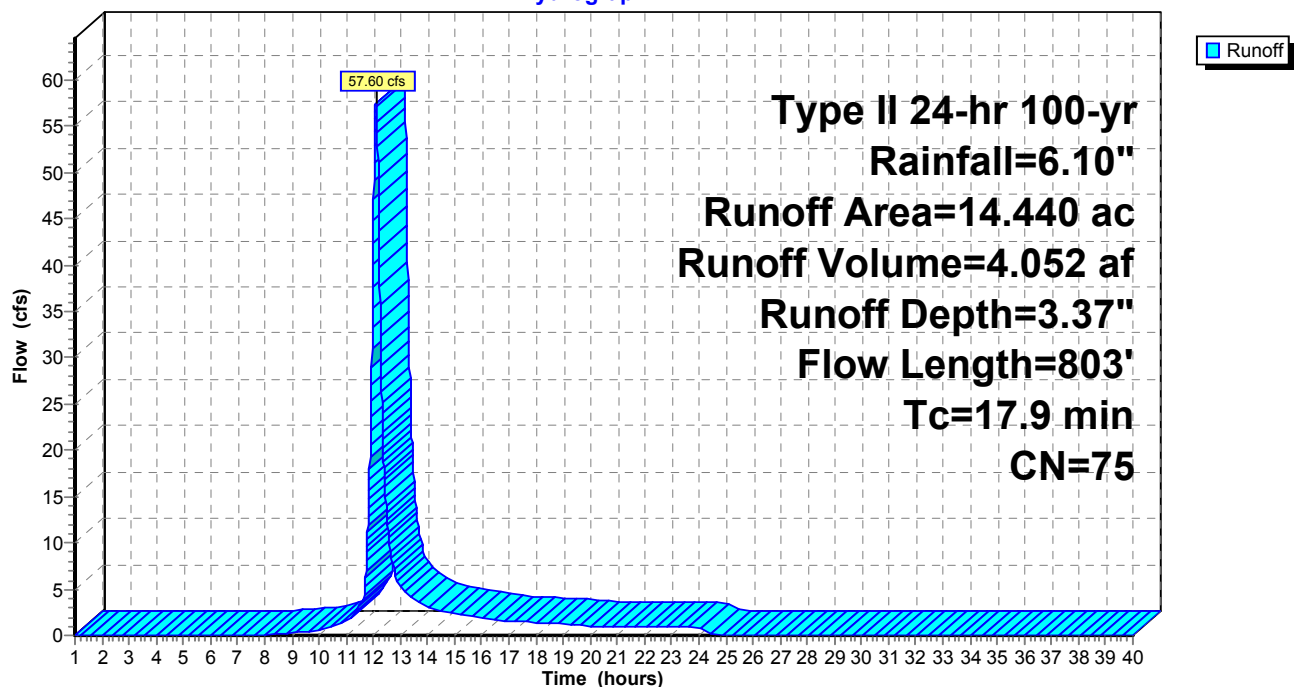
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
14.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.9	803	0.0300	0.7		Lag/CN Method,

Subcatchment C1: C1

Hydrograph



Subcatchment C3: C3

Runoff = 68.09 cfs @ 12.90 hrs, Volume= 13.719 af, Depth= 3.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

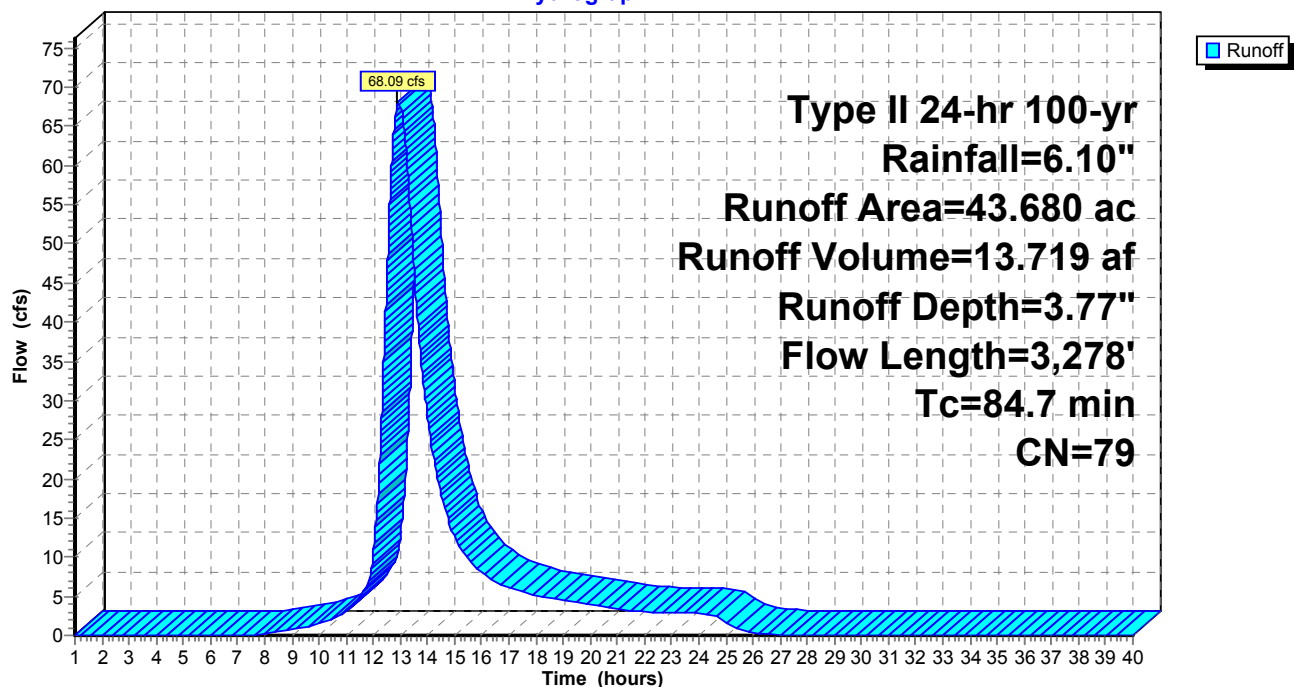
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
43.680	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
84.7	3,278	0.0100	0.6		Lag/CN Method,

Subcatchment C3: C3

Hydrograph



Subcatchment C4: C4

Runoff = 84.22 cfs @ 11.98 hrs, Volume= 3.905 af, Depth= 2.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

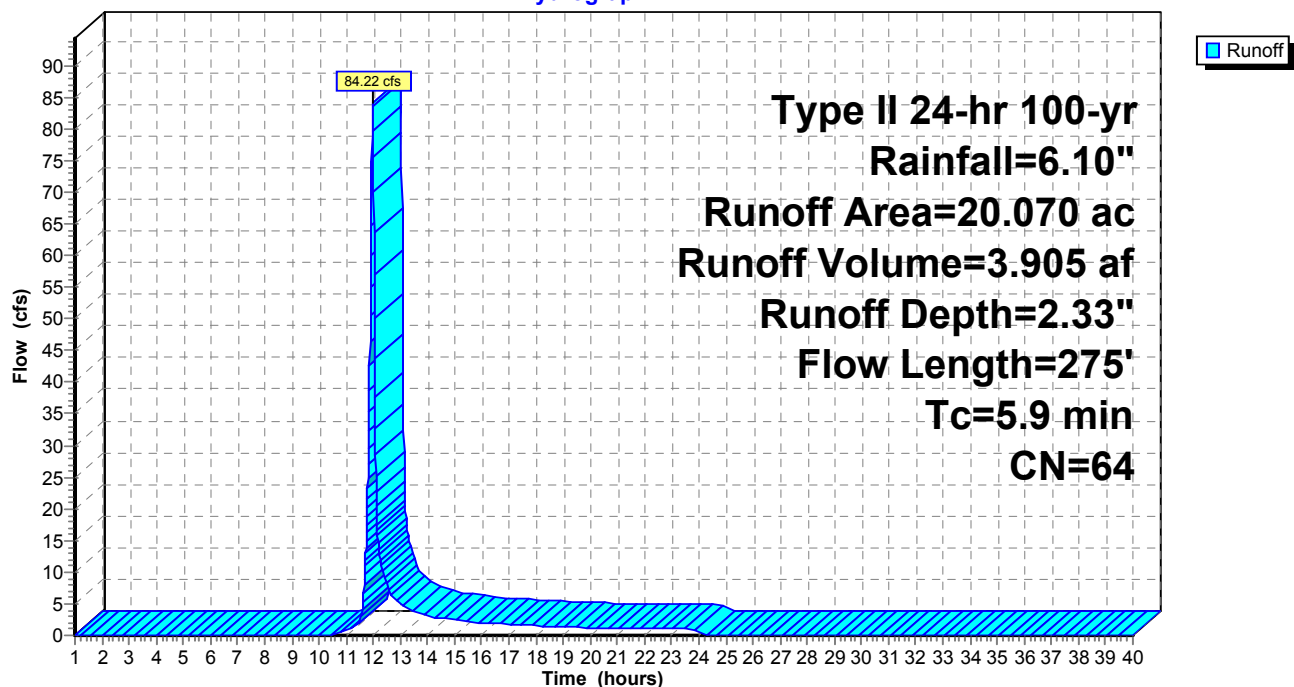
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
20.070	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.9	275	0.0900	0.8		Lag/CN Method,

Subcatchment C4: C4

Hydrograph



Subcatchment C5: C5

Runoff = 39.89 cfs @ 12.19 hrs, Volume= 3.438 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

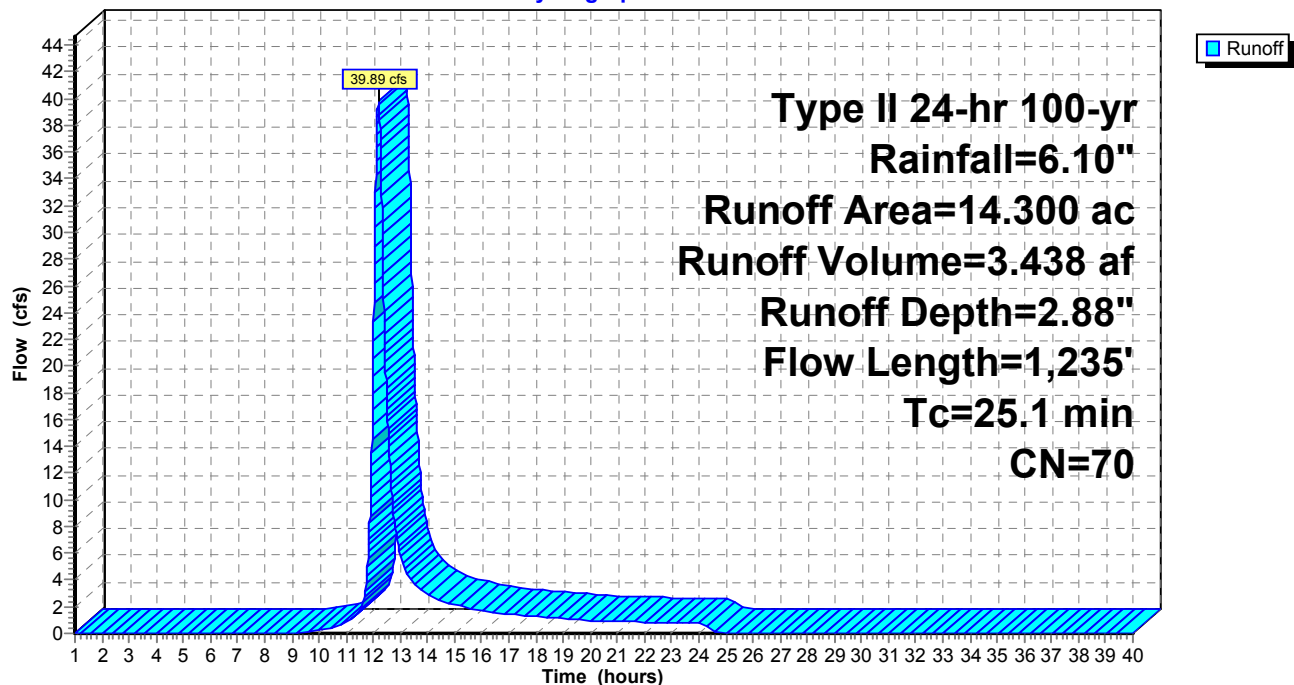
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
14.300	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,235	0.0400	0.8		Lag/CN Method,

Subcatchment C5: C5

Hydrograph



Subcatchment C6: C6

Runoff = 70.04 cfs @ 11.97 hrs, Volume= 3.170 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

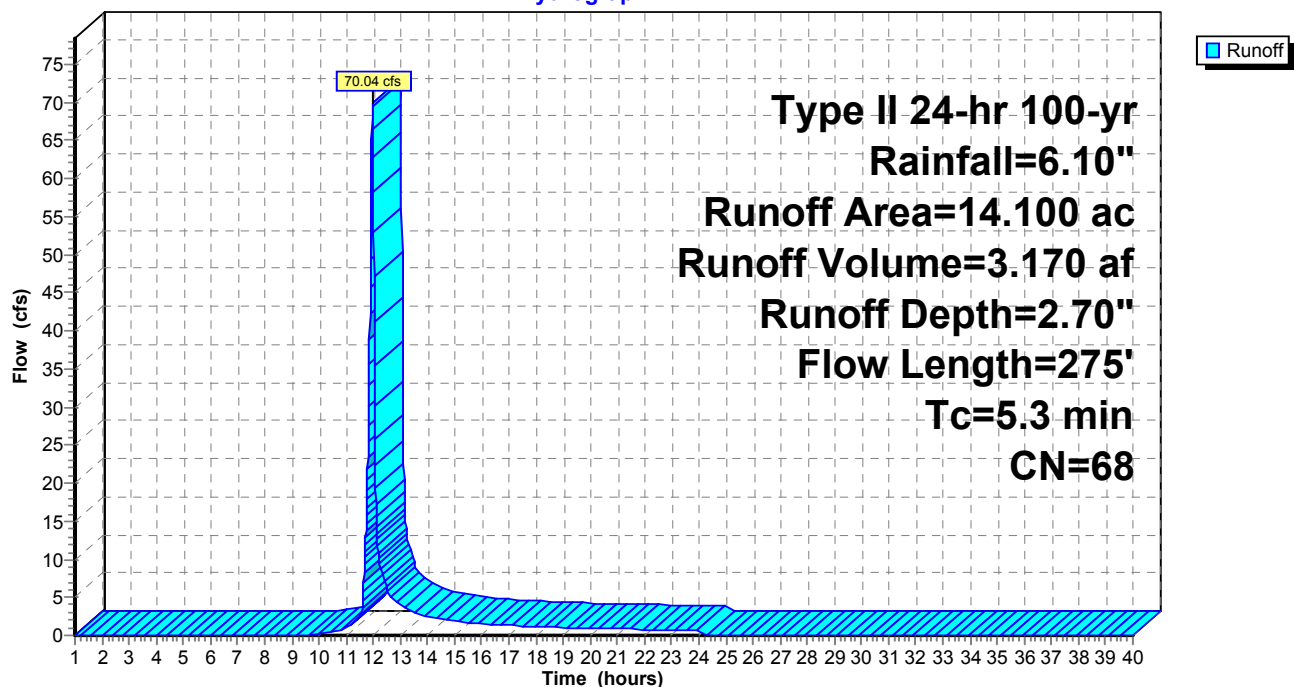
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
14.100	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	275	0.0900	0.9		Lag/CN Method,

Subcatchment C6: C6

Hydrograph



Subcatchment C7: C7

Runoff = 53.66 cfs @ 11.96 hrs, Volume= 2.396 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

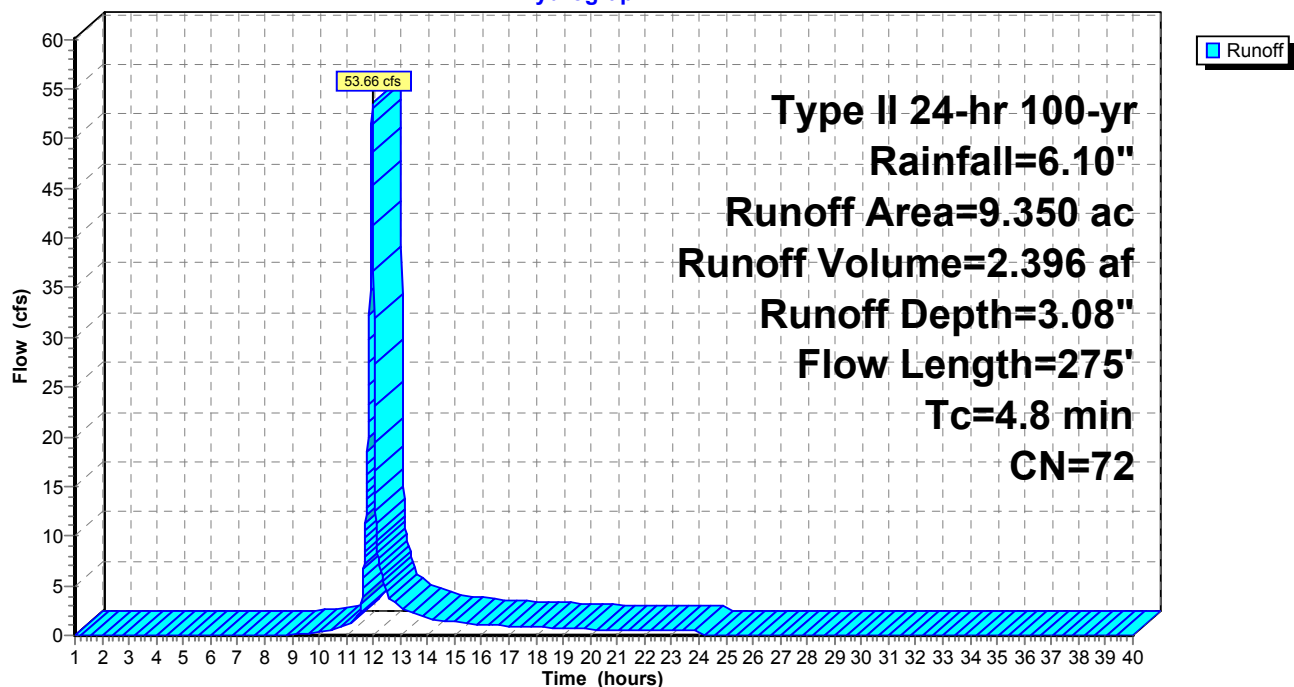
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.350	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	275	0.0900	1.0		Lag/CN Method,

Subcatchment C7: C7

Hydrograph



Subcatchment C8: C8

Runoff = 36.69 cfs @ 11.93 hrs, Volume= 1.527 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

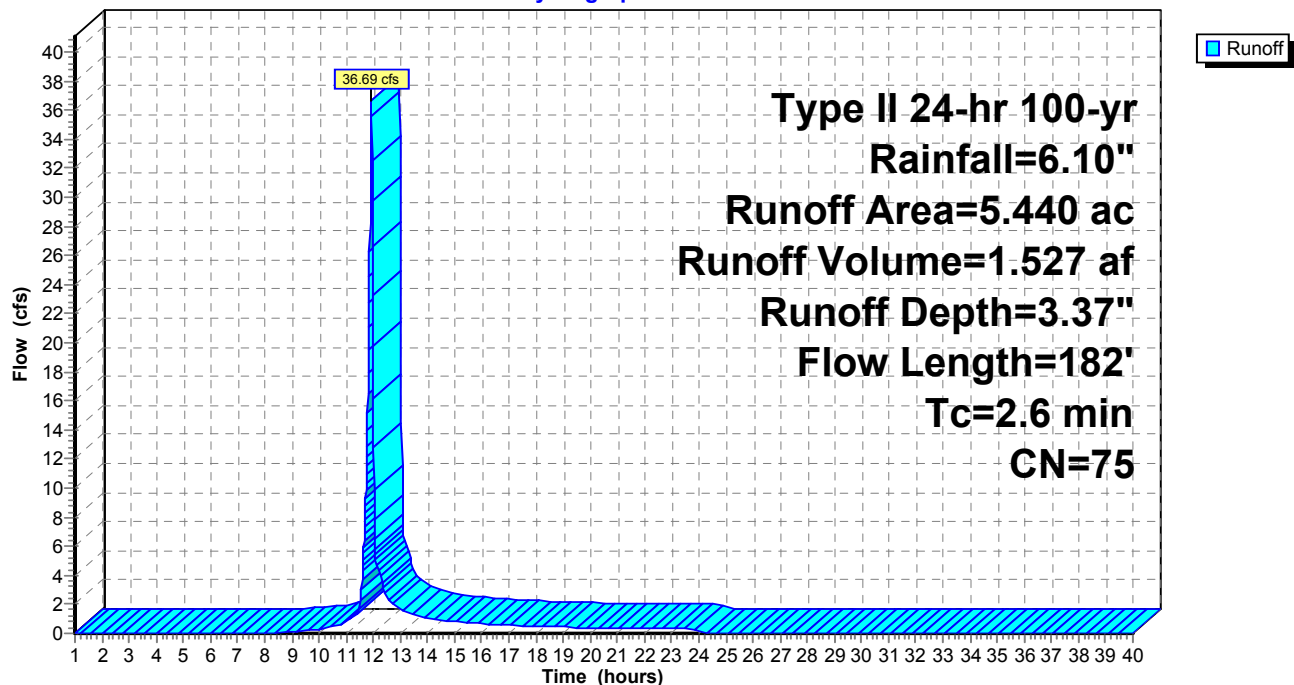
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.440	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	182	0.1300	1.2		Lag/CN Method,

Subcatchment C8: C8

Hydrograph



Subcatchment W100: W100

Runoff = 10.60 cfs @ 12.02 hrs, Volume= 0.575 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

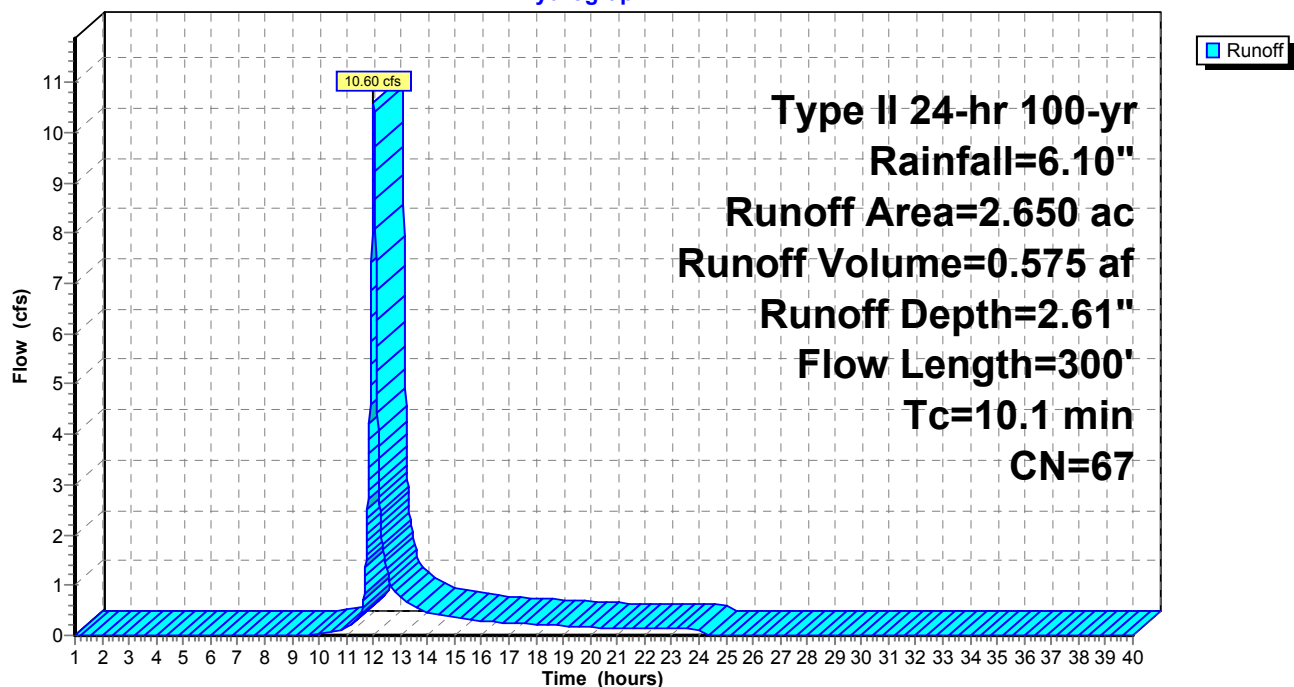
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
2.650	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	300	0.0300	0.5		Lag/CN Method,

Subcatchment W100: W100

Hydrograph



Subcatchment W101: W101

Runoff = 50.60 cfs @ 12.29 hrs, Volume= 5.422 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

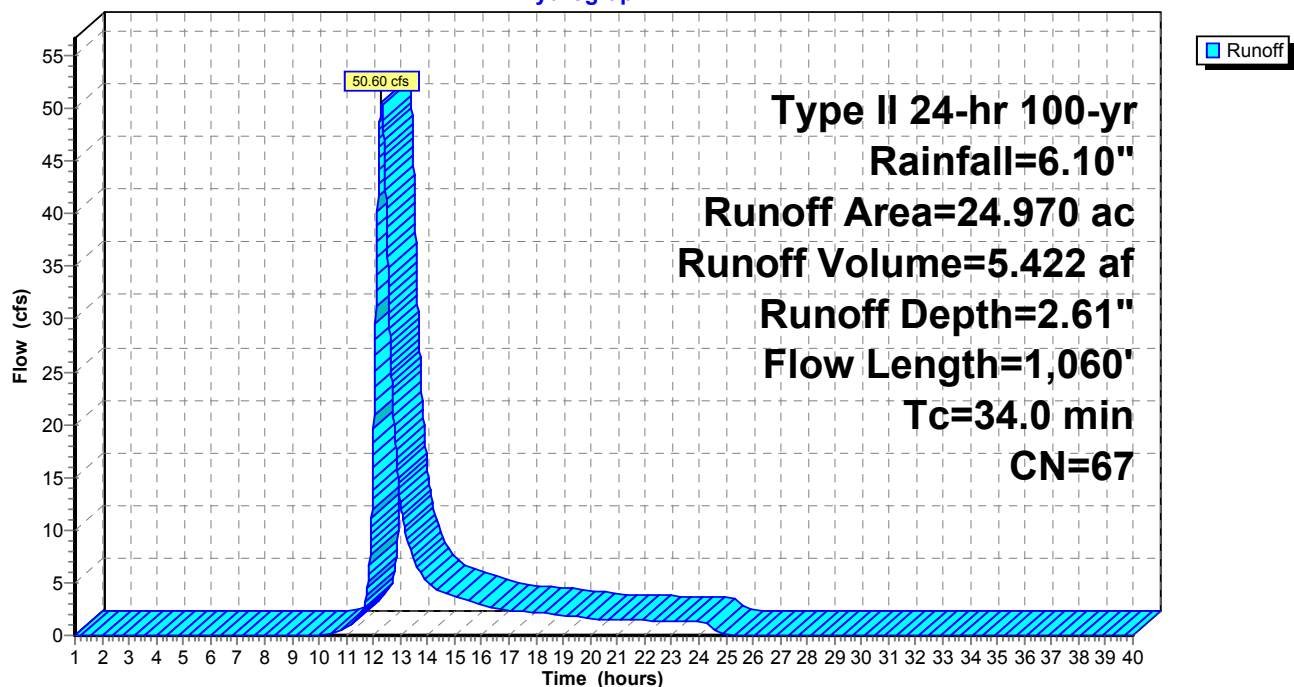
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
24.970	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.0	1,060	0.0200	0.5		Lag/CN Method,

Subcatchment W101: W101

Hydrograph



Subcatchment W102: W102

Runoff = 176.19 cfs @ 12.20 hrs, Volume= 15.542 af, Depth= 4.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

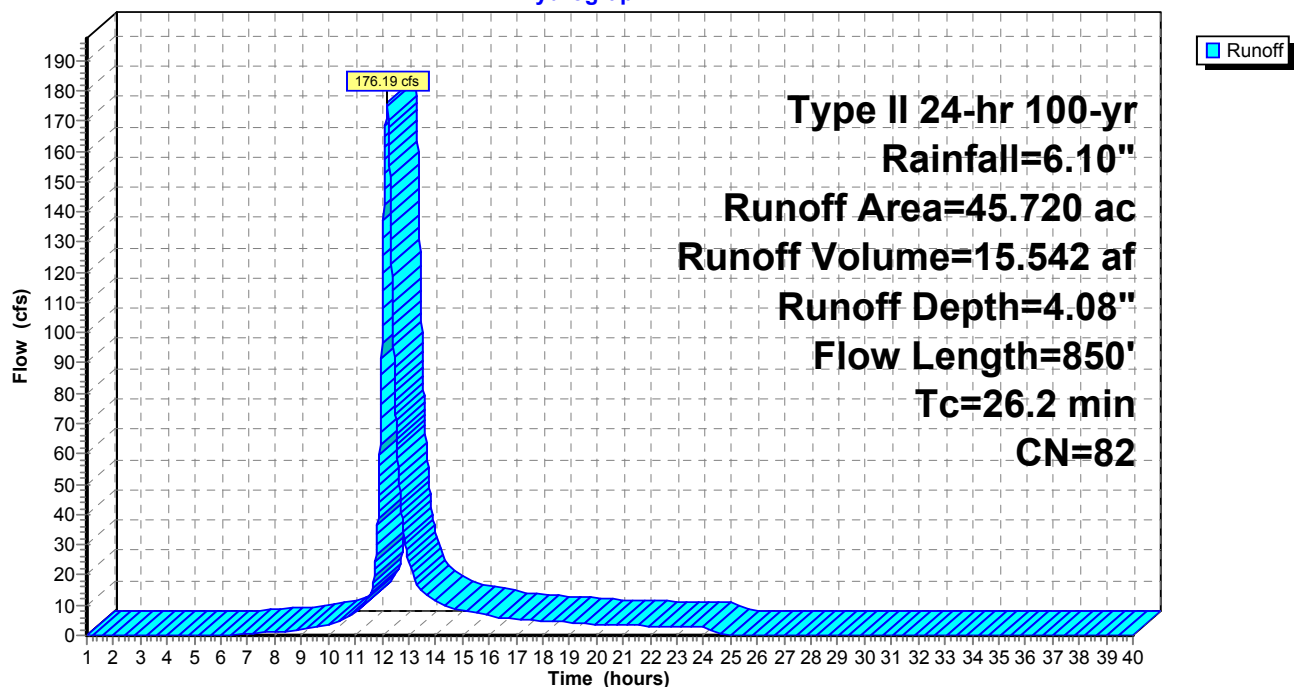
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
45.720	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.2	850	0.0100	0.5		Lag/CN Method,

Subcatchment W102: W102

Hydrograph



Subcatchment W103: W103

Runoff = 11.06 cfs @ 12.00 hrs, Volume= 0.567 af, Depth= 1.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

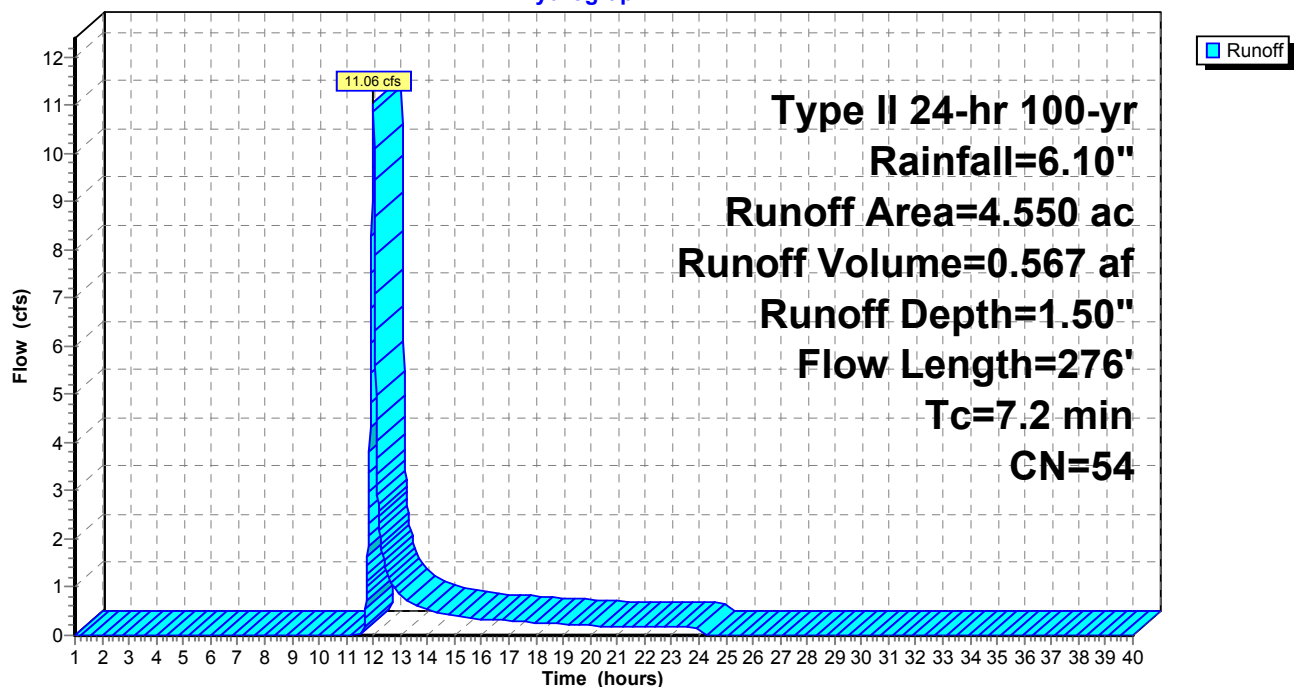
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
4.550	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	276	0.1000	0.6		Lag/CN Method,

Subcatchment W103: W103

Hydrograph



Subcatchment W104: W104

Runoff = 178.13 cfs @ 12.24 hrs, Volume= 16.937 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

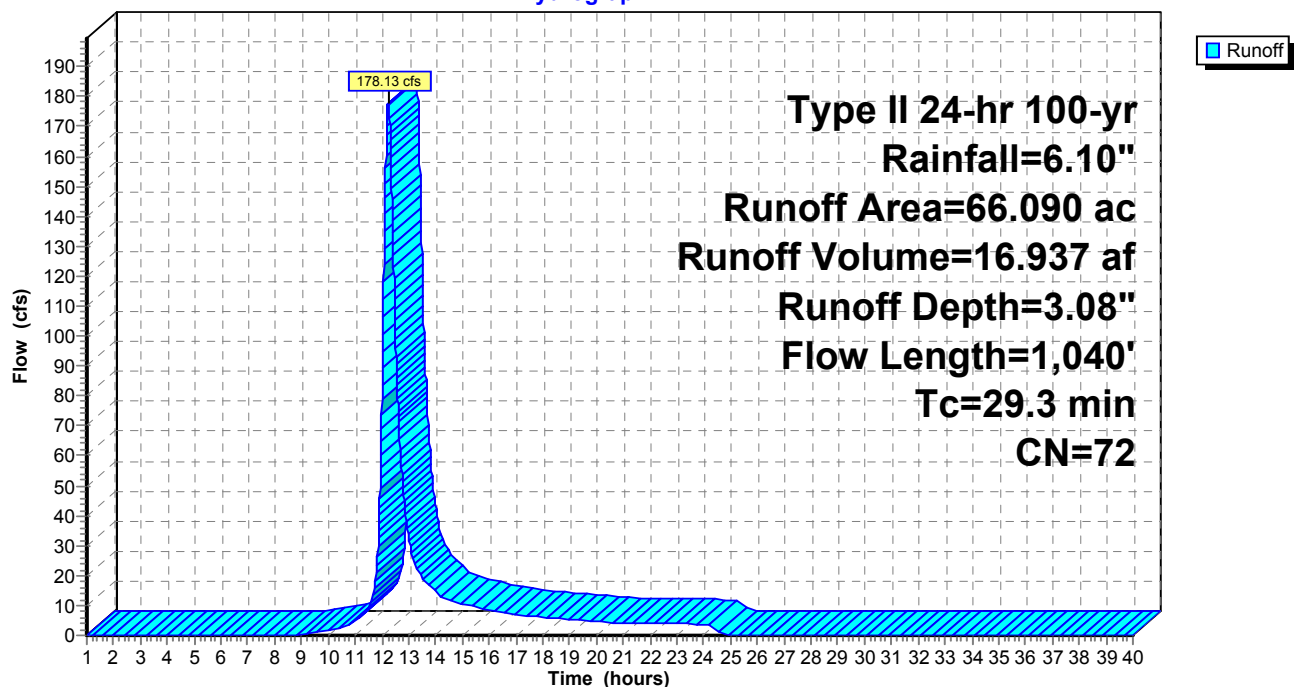
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
66.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.3	1,040	0.0200	0.6		Lag/CN Method,

Subcatchment W104: W104

Hydrograph



Subcatchment W105: W105

Runoff = 29.95 cfs @ 12.07 hrs, Volume= 1.964 af, Depth= 1.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

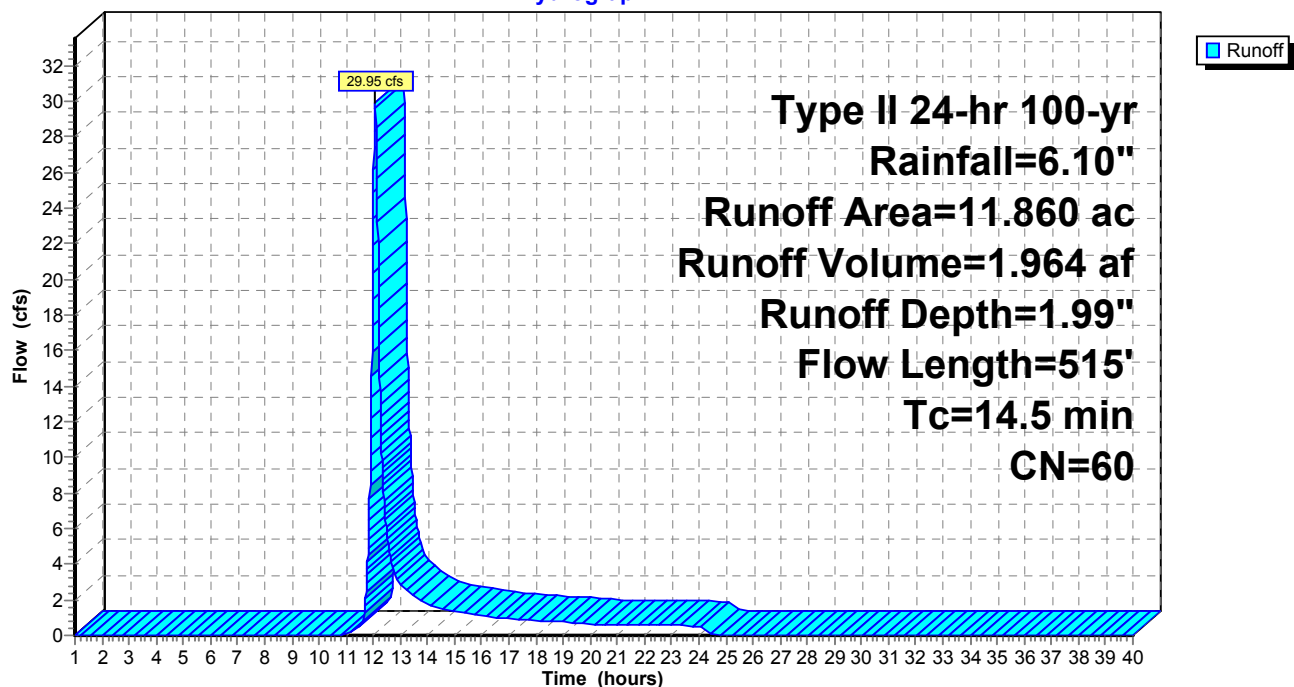
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
11.860	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	515	0.0500	0.6		Lag/CN Method,

Subcatchment W105: W105

Hydrograph



Subcatchment W106: W106

Runoff = 65.92 cfs @ 11.96 hrs, Volume= 3.157 af, Depth= 4.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

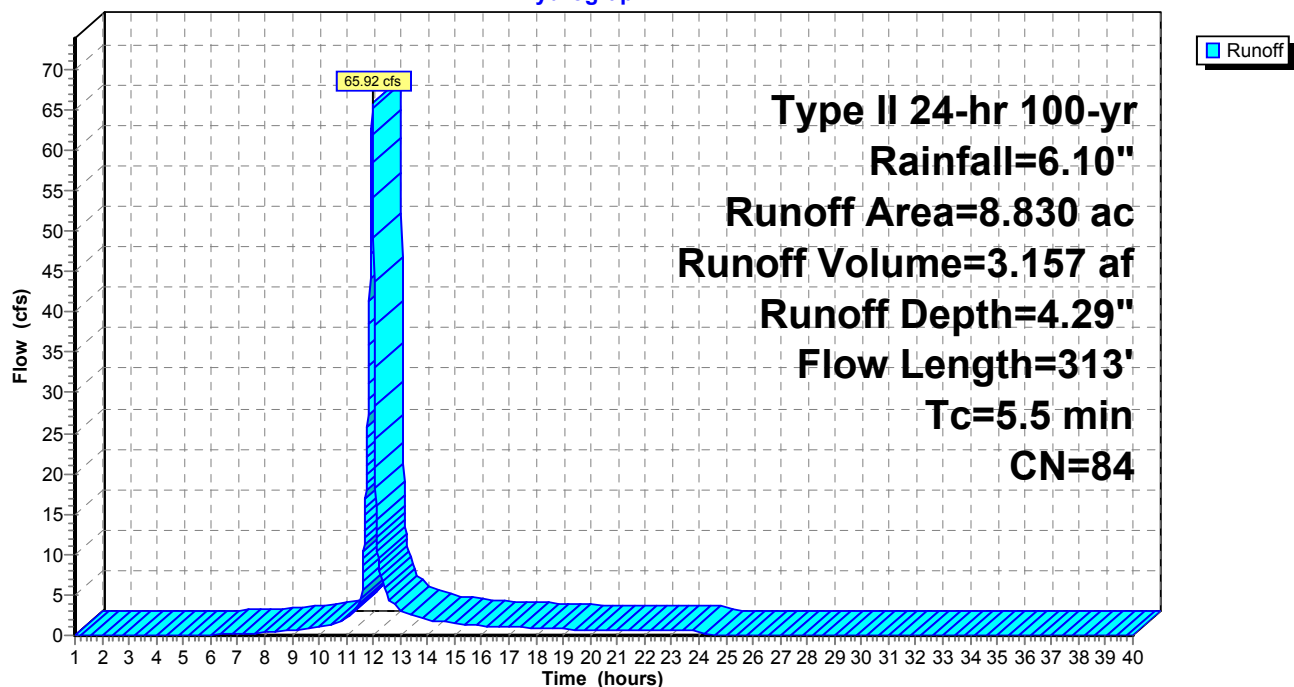
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.830	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	313	0.0400	0.9		Lag/CN Method,

Subcatchment W106: W106

Hydrograph



Subcatchment W107: W107

Runoff = 112.05 cfs @ 12.07 hrs, Volume= 7.326 af, Depth= 3.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

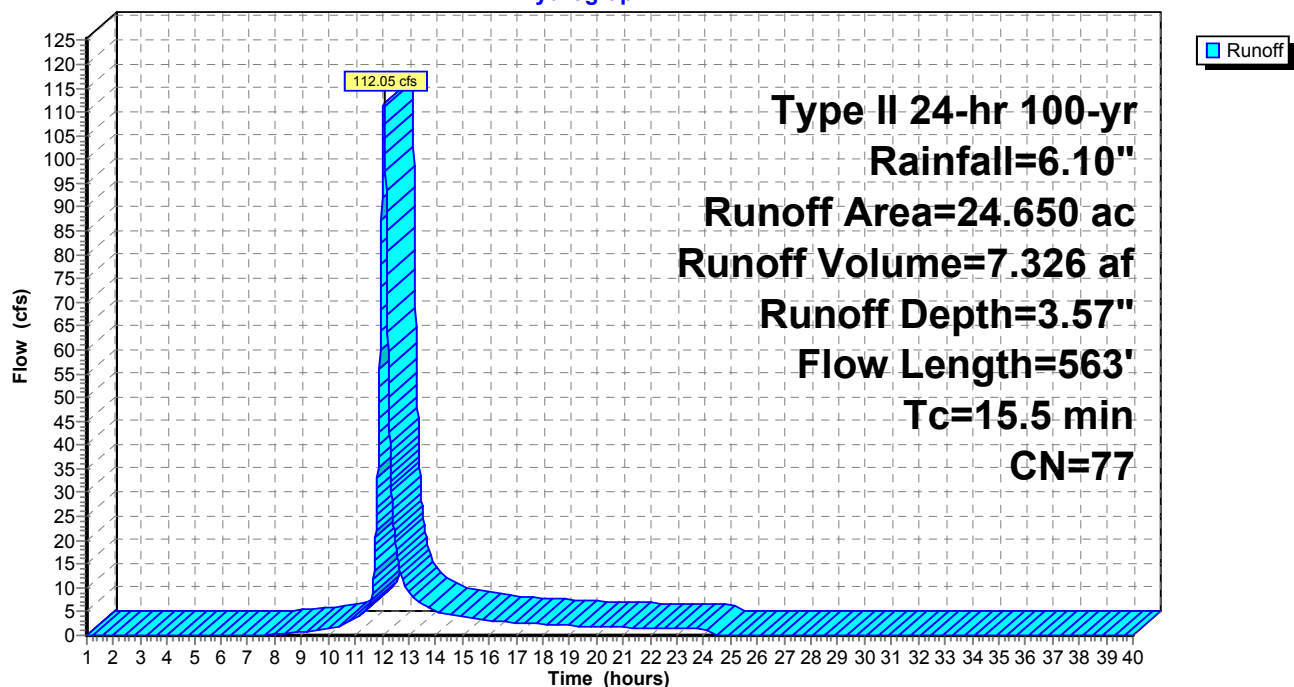
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
24.650	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	563	0.0200	0.6		Lag/CN Method,

Subcatchment W107: W107

Hydrograph



Subcatchment W108: W108

Runoff = 37.40 cfs @ 12.09 hrs, Volume= 2.583 af, Depth= 3.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

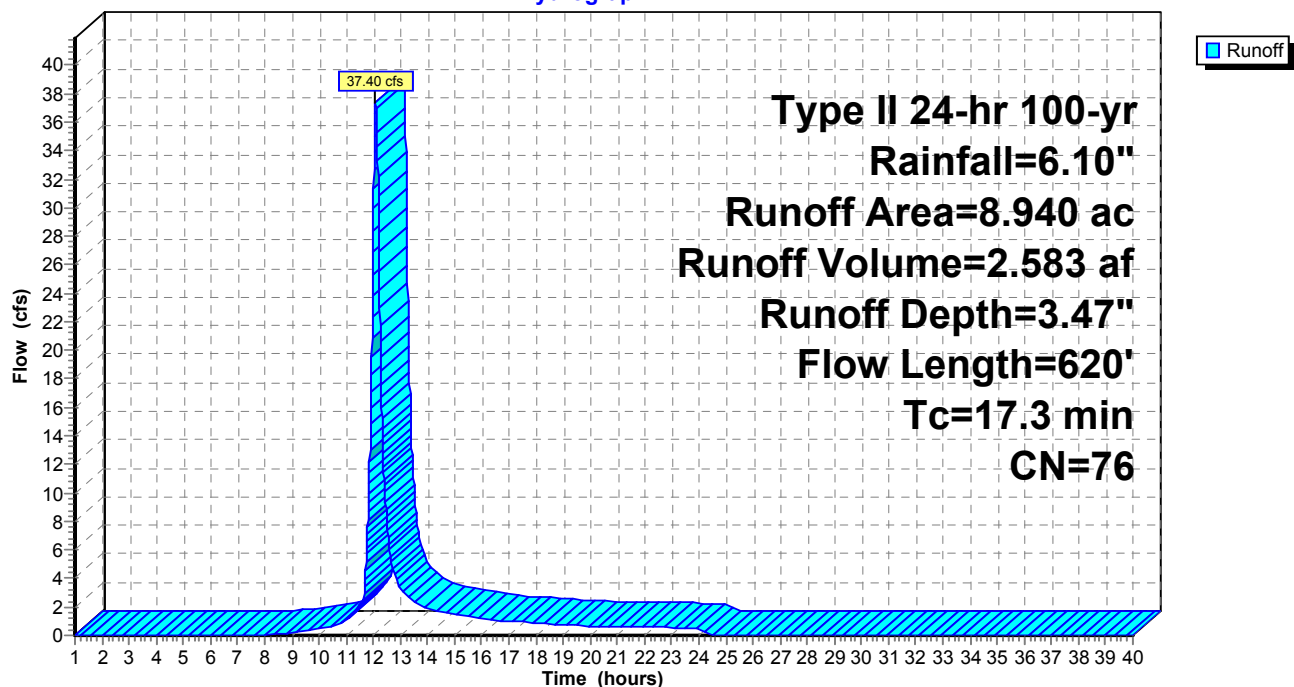
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.940	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	620	0.0200	0.6		Lag/CN Method,

Subcatchment W108: W108

Hydrograph



Subcatchment W109: W109

Runoff = 15.49 cfs @ 12.23 hrs, Volume= 1.459 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

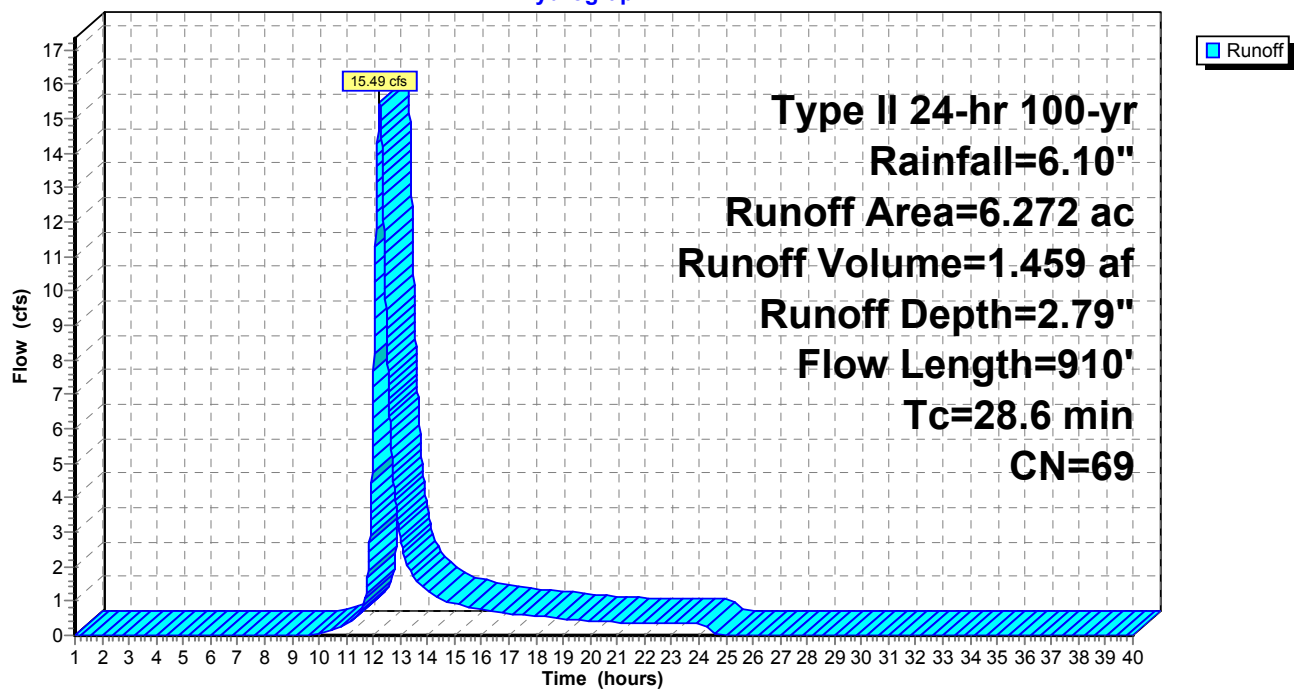
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
6.272	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	910	0.0200	0.5		Lag/CN Method,

Subcatchment W109: W109

Hydrograph



Subcatchment W110: W110

Runoff = 19.29 cfs @ 13.76 hrs, Volume= 6.318 af, Depth= 1.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

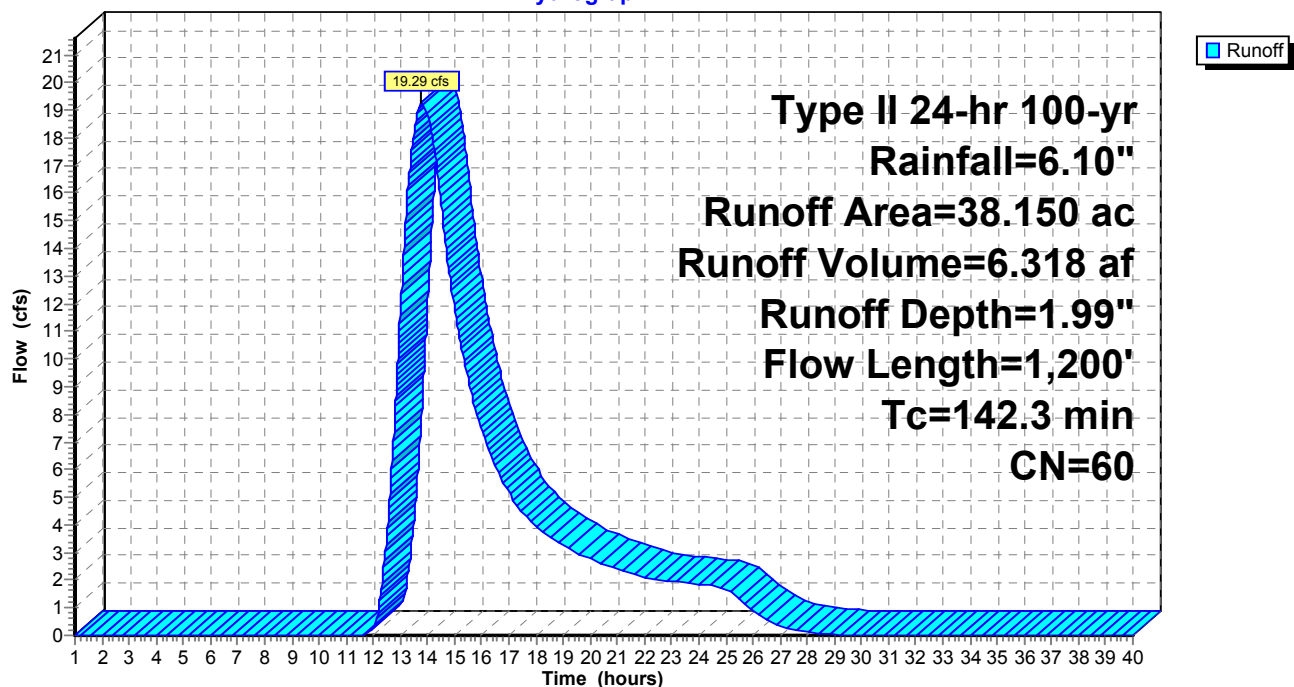
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
38.150	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
142.3	1,200	0.0020	0.1		Lag/CN Method,

Subcatchment W110: W110

Hydrograph



Subcatchment W111: W111

Runoff = 15.29 cfs @ 12.02 hrs, Volume= 0.816 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

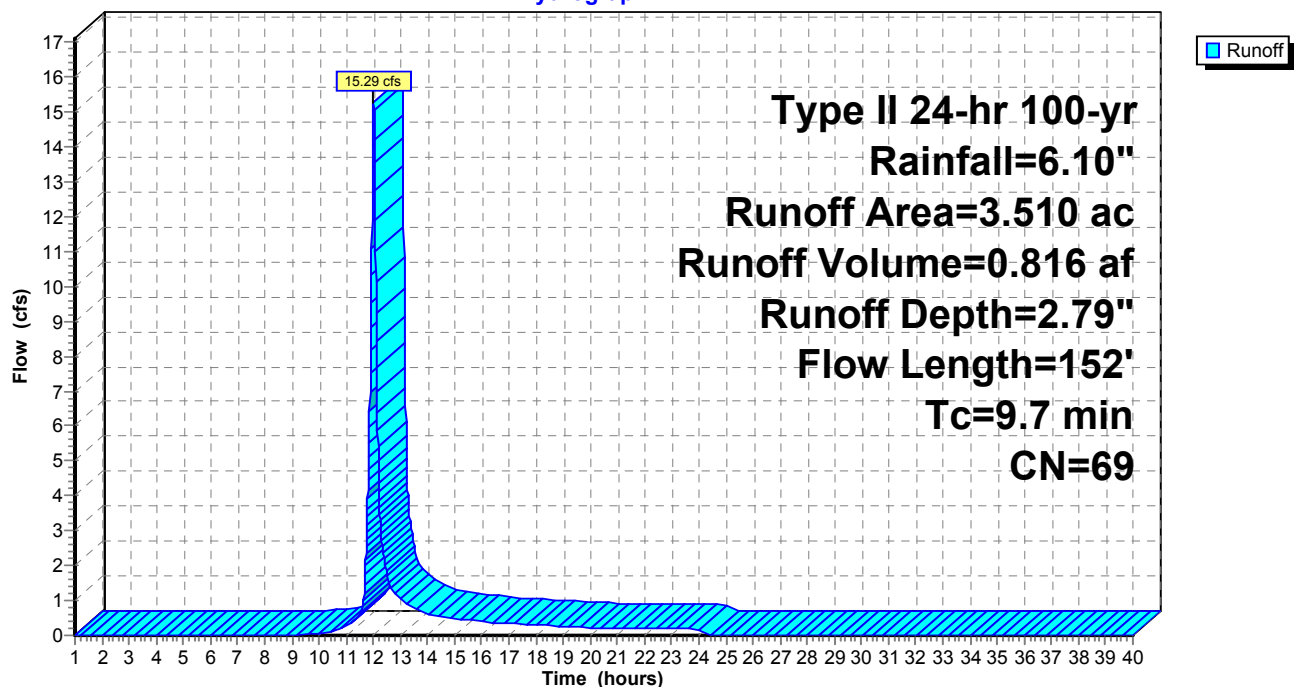
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
3.510	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	152	0.0100	0.3		Lag/CN Method,

Subcatchment W111: W111

Hydrograph



Subcatchment W112: W112

Runoff = 15.09 cfs @ 13.42 hrs, Volume= 4.446 af, Depth= 1.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

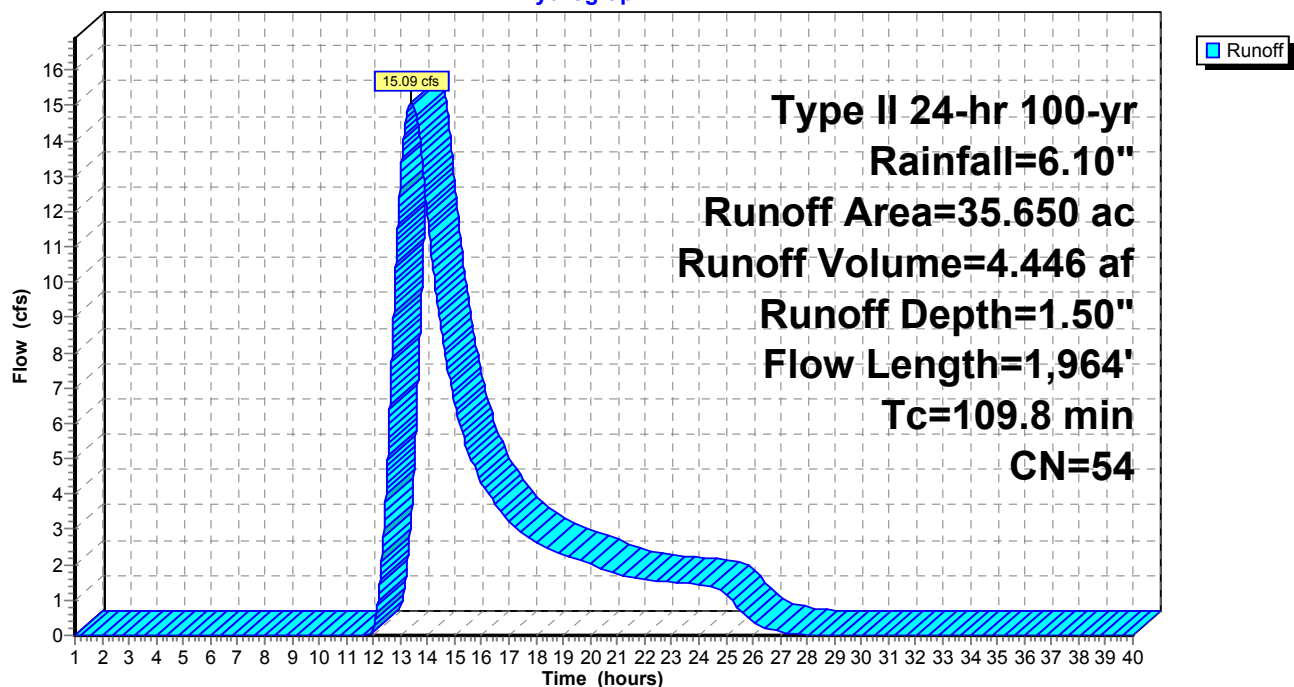
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
35.650	54	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
109.8	1,964	0.0100	0.3		Lag/CN Method,

Subcatchment W112: W112

Hydrograph



Subcatchment W113: W113

Runoff = 25.81 cfs @ 12.17 hrs, Volume= 2.082 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

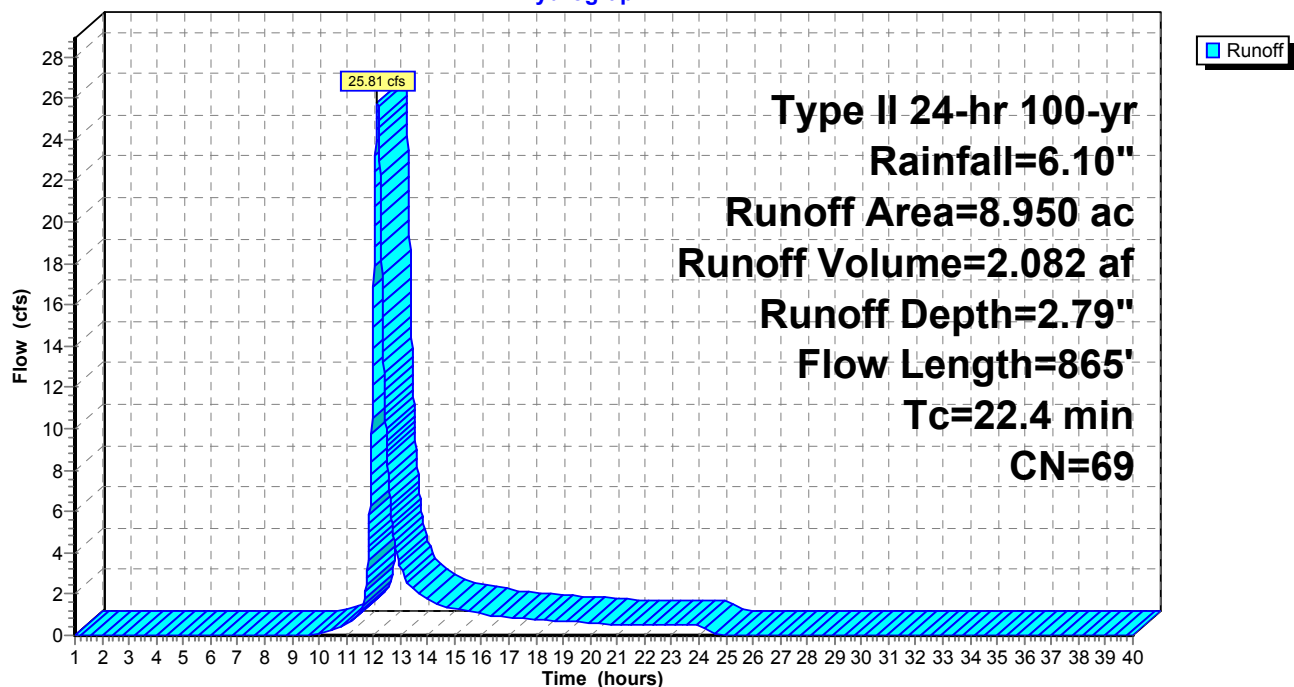
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.950	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	865	0.0300	0.6		Lag/CN Method,

Subcatchment W113: W113

Hydrograph



Subcatchment W114: W114

Runoff = 36.13 cfs @ 12.63 hrs, Volume= 6.108 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

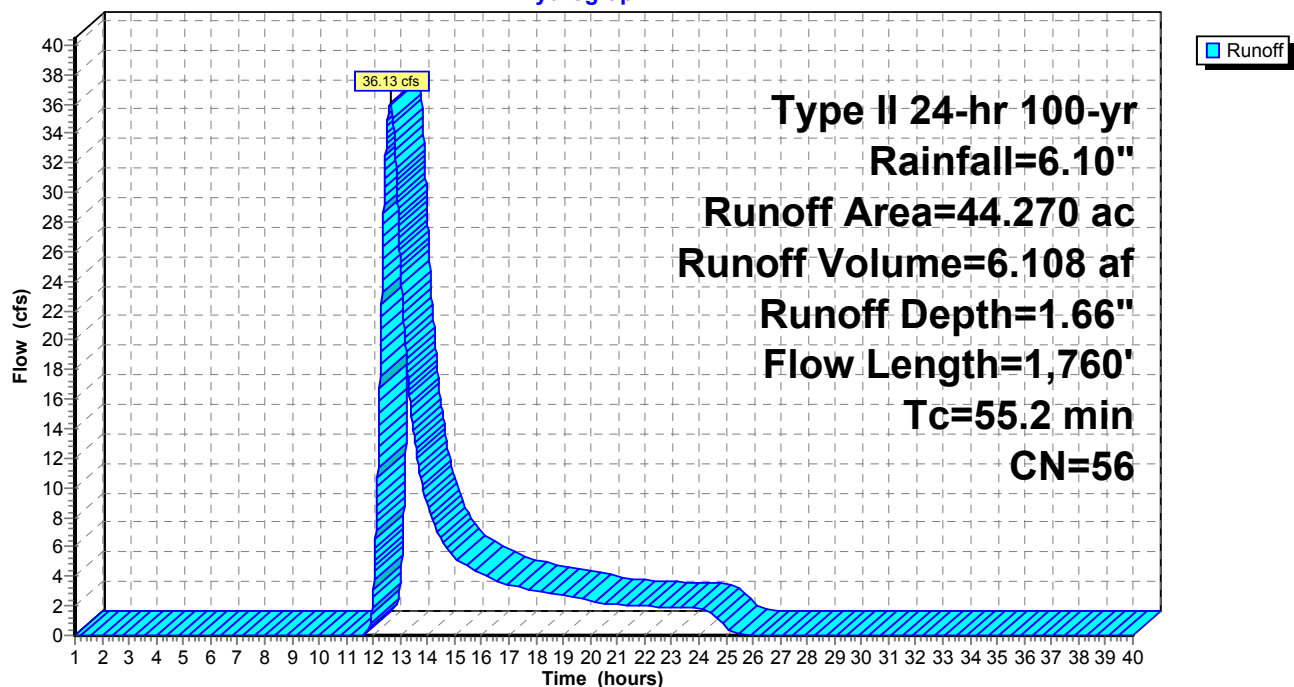
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
44.270	56	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.2	1,760	0.0300	0.5		Lag/CN Method,

Subcatchment W114: W114

Hydrograph



Subcatchment W115: W115

Runoff = 13.19 cfs @ 12.59 hrs, Volume= 2.141 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

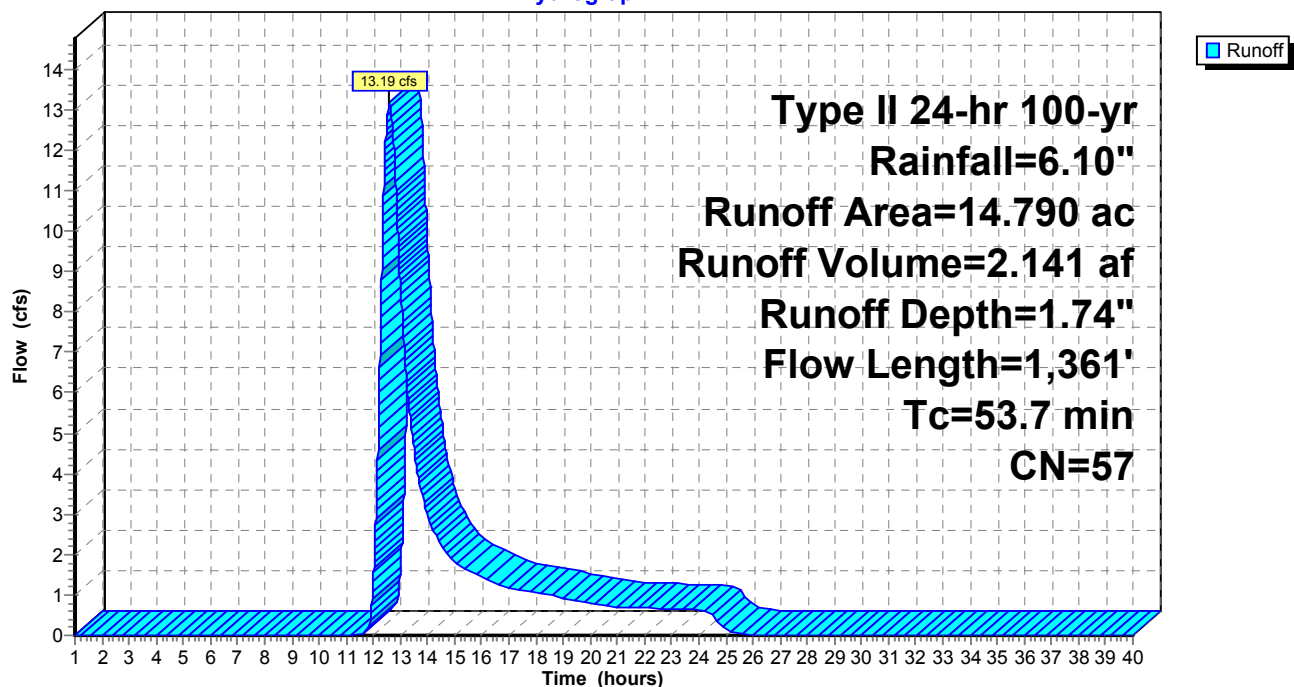
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
14.790	57	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	1,361	0.0200	0.4		Lag/CN Method,

Subcatchment W115: W115

Hydrograph



Subcatchment W116: W116

Runoff = 25.63 cfs @ 12.00 hrs, Volume= 1.293 af, Depth= 2.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

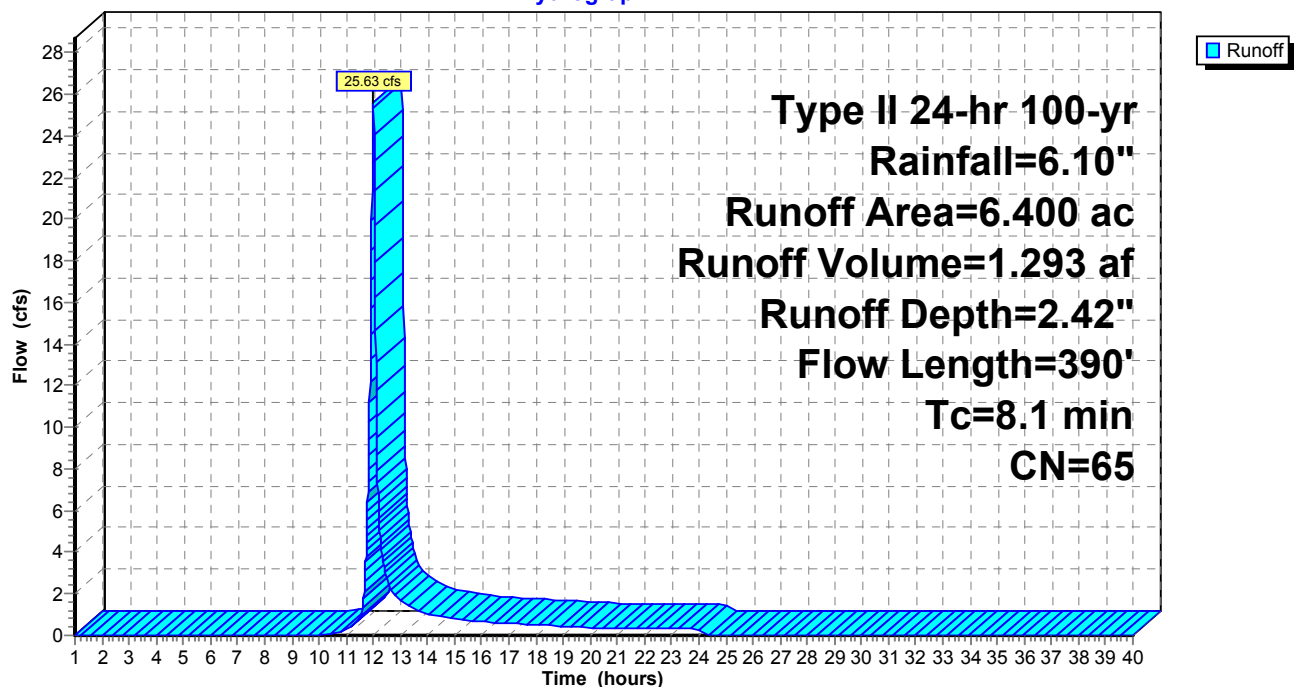
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
6.400	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	390	0.0800	0.8		Lag/CN Method,

Subcatchment W116: W116

Hydrograph



Subcatchment W117: W117

Runoff = 1.24 cfs @ 12.28 hrs, Volume= 0.225 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

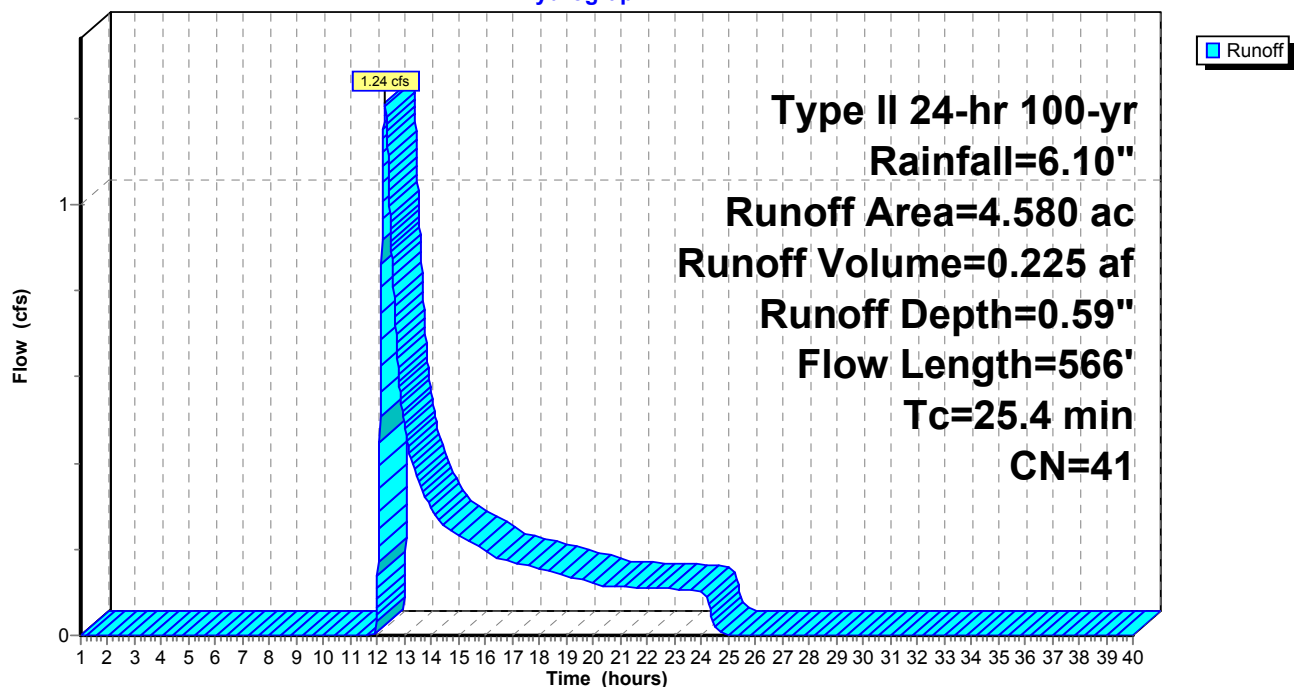
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
4.580	41	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.4	566	0.0500	0.4		Lag/CN Method,

Subcatchment W117: W117

Hydrograph



Subcatchment W118: W118

Runoff = 16.09 cfs @ 12.57 hrs, Volume= 2.839 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

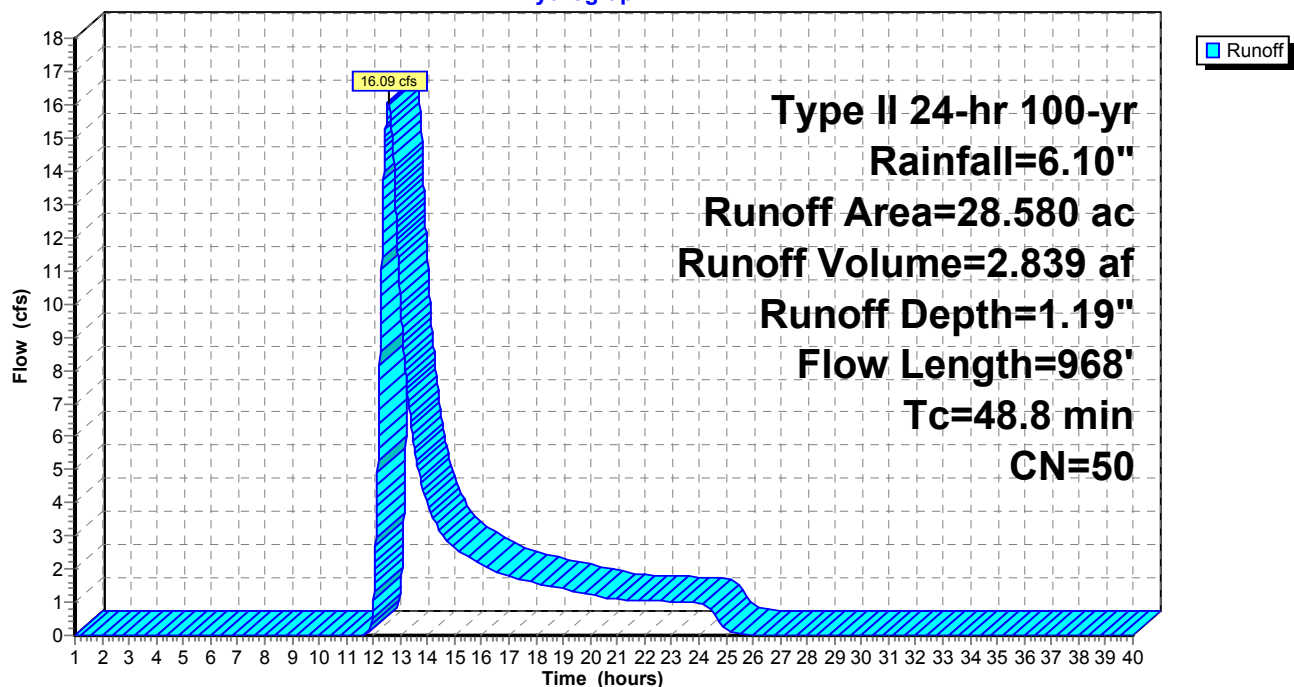
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
28.580	50	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.8	968	0.0200	0.3		Lag/CN Method,

Subcatchment W118: W118

Hydrograph



Subcatchment W119: W119

Runoff = 8.70 cfs @ 12.13 hrs, Volume= 0.755 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

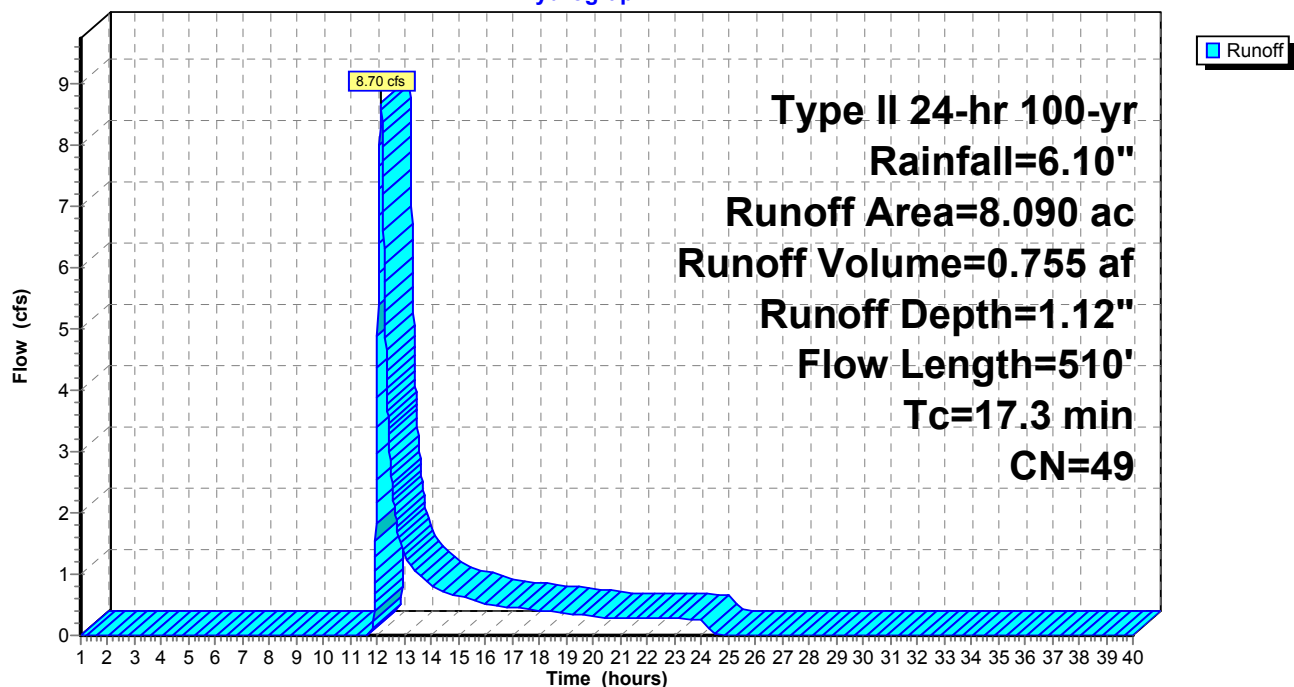
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.090	49	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	510	0.0600	0.5		Lag/CN Method,

Subcatchment W119: W119

Hydrograph



Subcatchment W12: W12

Runoff = 5.63 cfs @ 11.95 hrs, Volume= 0.248 af, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

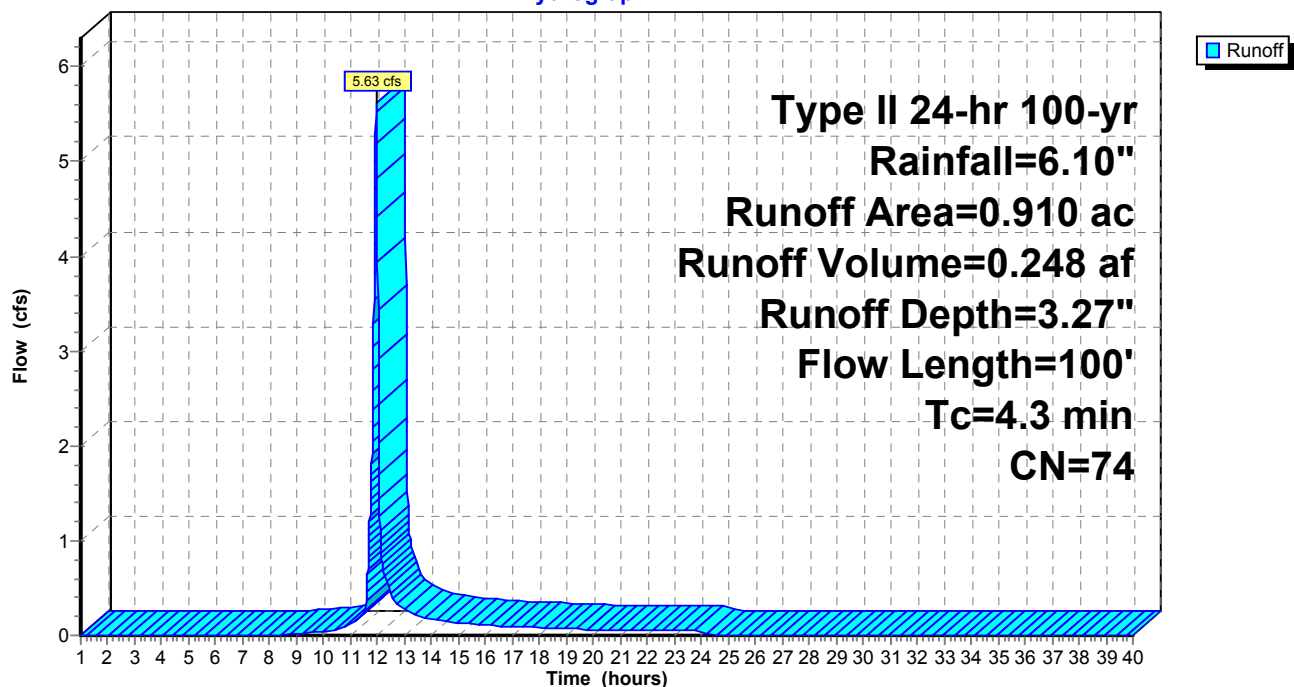
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
0.910	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.0200	0.4		Lag/CN Method,

Subcatchment W12: W12

Hydrograph



Subcatchment W120: W120

Runoff = 4.51 cfs @ 12.85 hrs, Volume= 1.209 af, Depth= 0.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

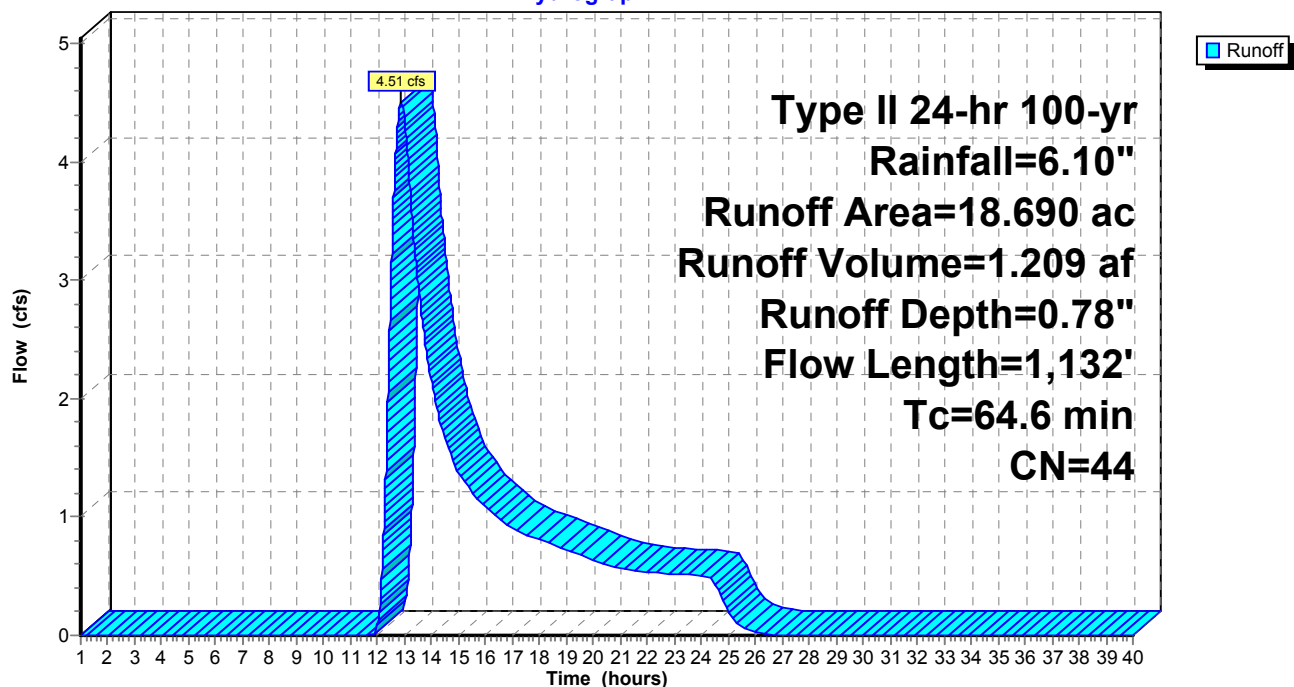
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.690	44	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.6	1,132	0.0200	0.3		Lag/CN Method,

Subcatchment W120: W120

Hydrograph



Subcatchment W121: W121

Runoff = 33.34 cfs @ 12.00 hrs, Volume= 1.698 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

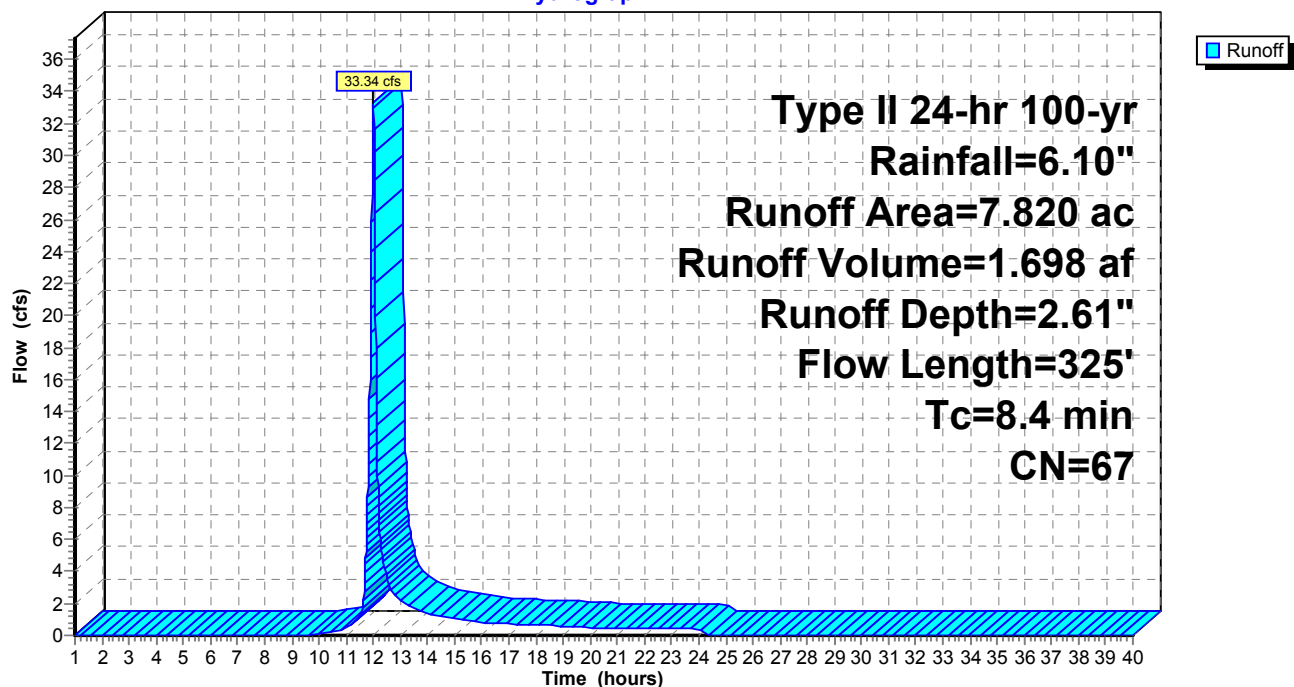
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.820	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	325	0.0500	0.6		Lag/CN Method,

Subcatchment W121: W121

Hydrograph



Subcatchment W122: W122

Runoff = 52.31 cfs @ 12.08 hrs, Volume= 3.652 af, Depth= 4.50"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

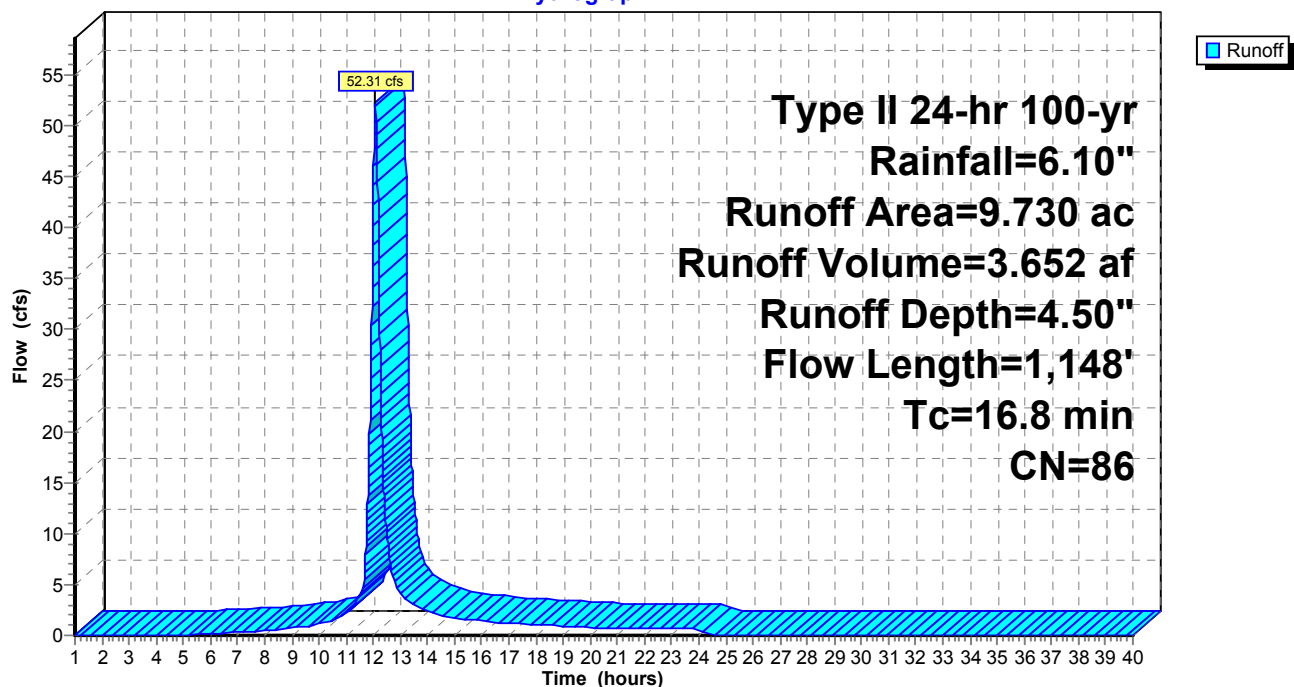
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.730	86	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,148	0.0300	1.1		Lag/CN Method,

Subcatchment W122: W122

Hydrograph



Subcatchment W123: W123

Runoff = 9.49 cfs @ 12.08 hrs, Volume= 0.636 af, Depth= 3.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

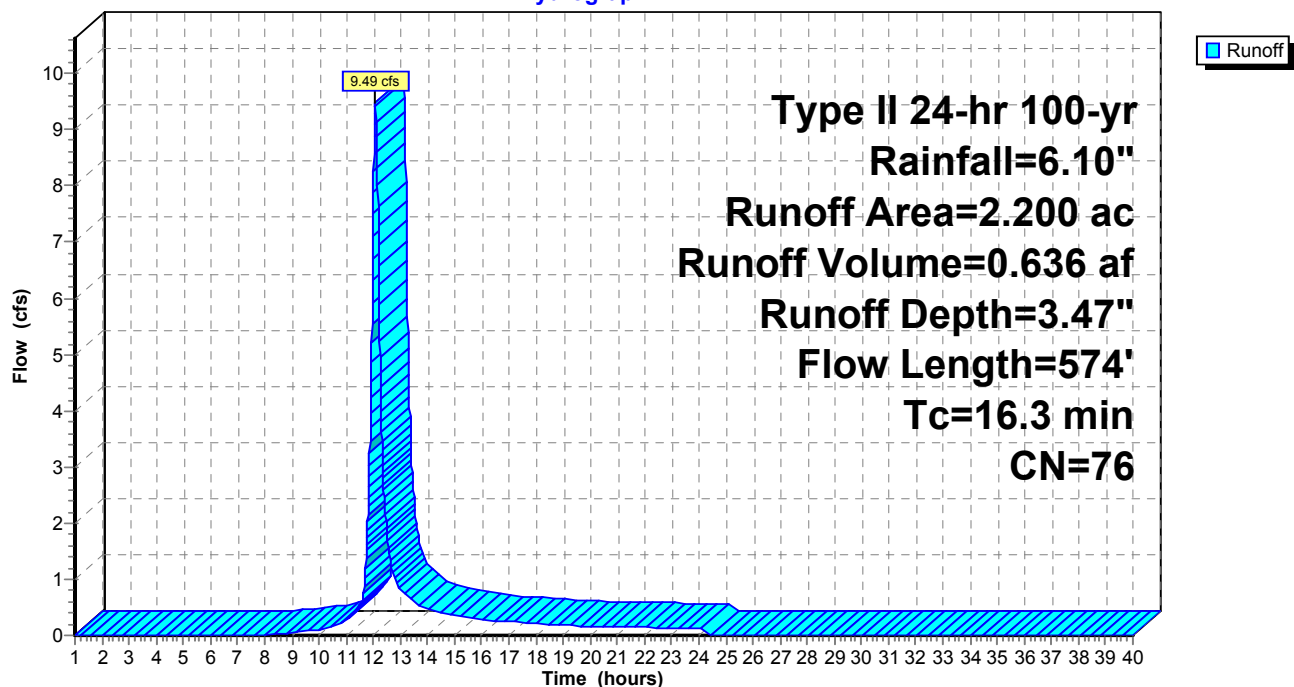
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
2.200	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	574	0.0200	0.6		Lag/CN Method,

Subcatchment W123: W123

Hydrograph



Subcatchment W124: W124

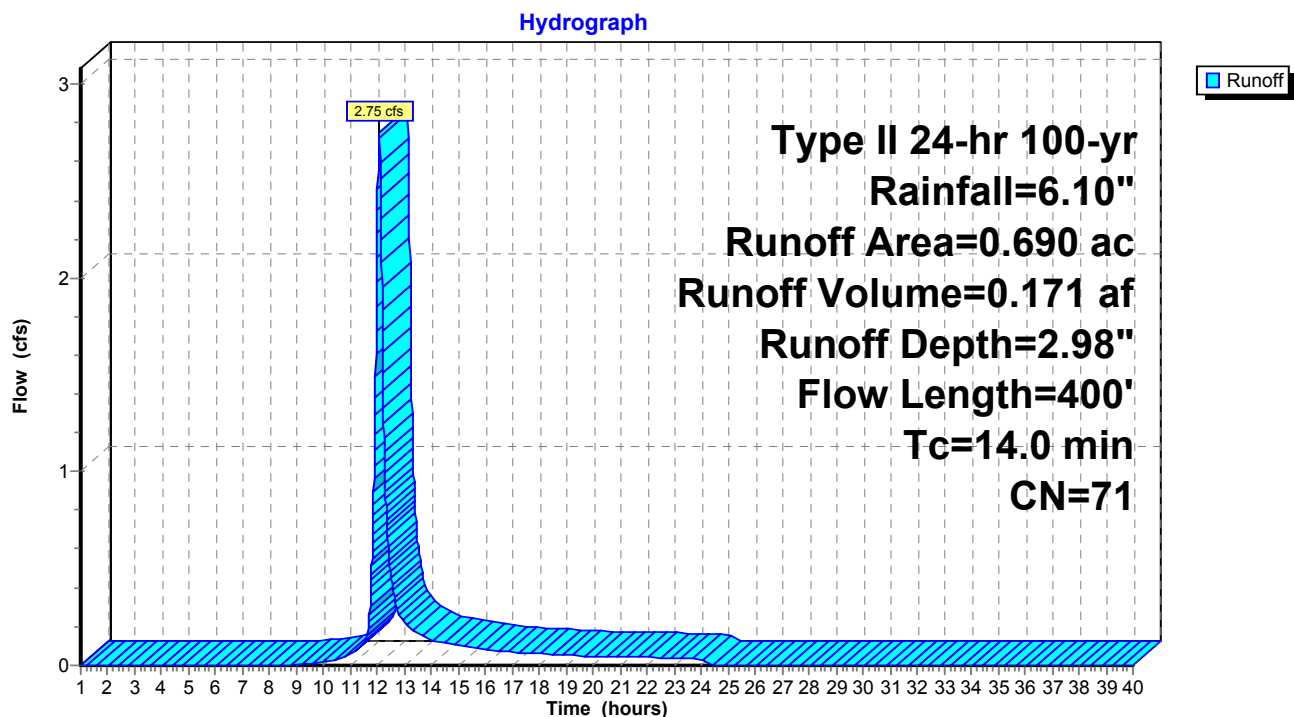
Runoff = 2.75 cfs @ 12.06 hrs, Volume= 0.171 af, Depth= 2.98"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
0.690	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	400	0.0200	0.5		Lag/CN Method,

Subcatchment W124: W124

Subcatchment W125: W125

Runoff = 21.18 cfs @ 12.47 hrs, Volume= 2.886 af, Depth= 3.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

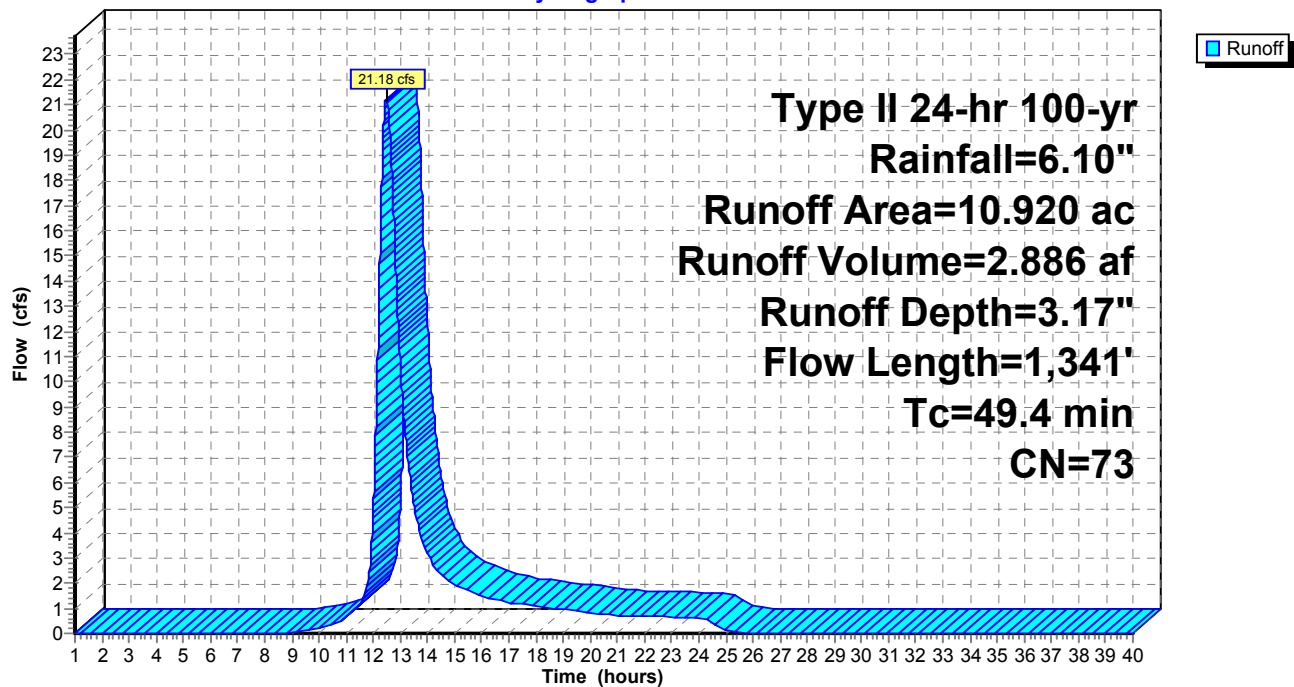
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
10.920	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.4	1,341	0.0100	0.5		Lag/CN Method,

Subcatchment W125: W125

Hydrograph



Subcatchment W126: W126

Runoff = 99.56 cfs @ 12.05 hrs, Volume= 6.451 af, Depth= 4.83"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

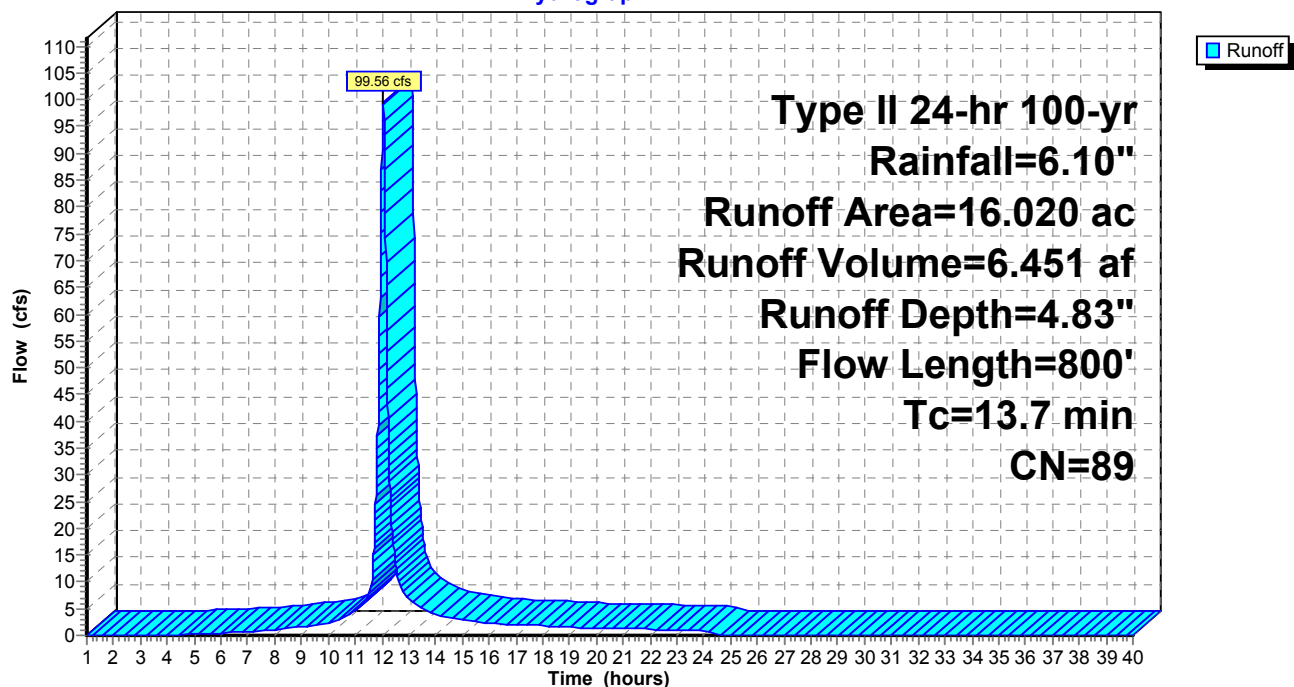
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
16.020	89	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	800	0.0200	1.0		Lag/CN Method,

Subcatchment W126: W126

Hydrograph



Subcatchment W128: W128

Runoff = 23.20 cfs @ 12.07 hrs, Volume= 1.476 af, Depth= 3.47"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

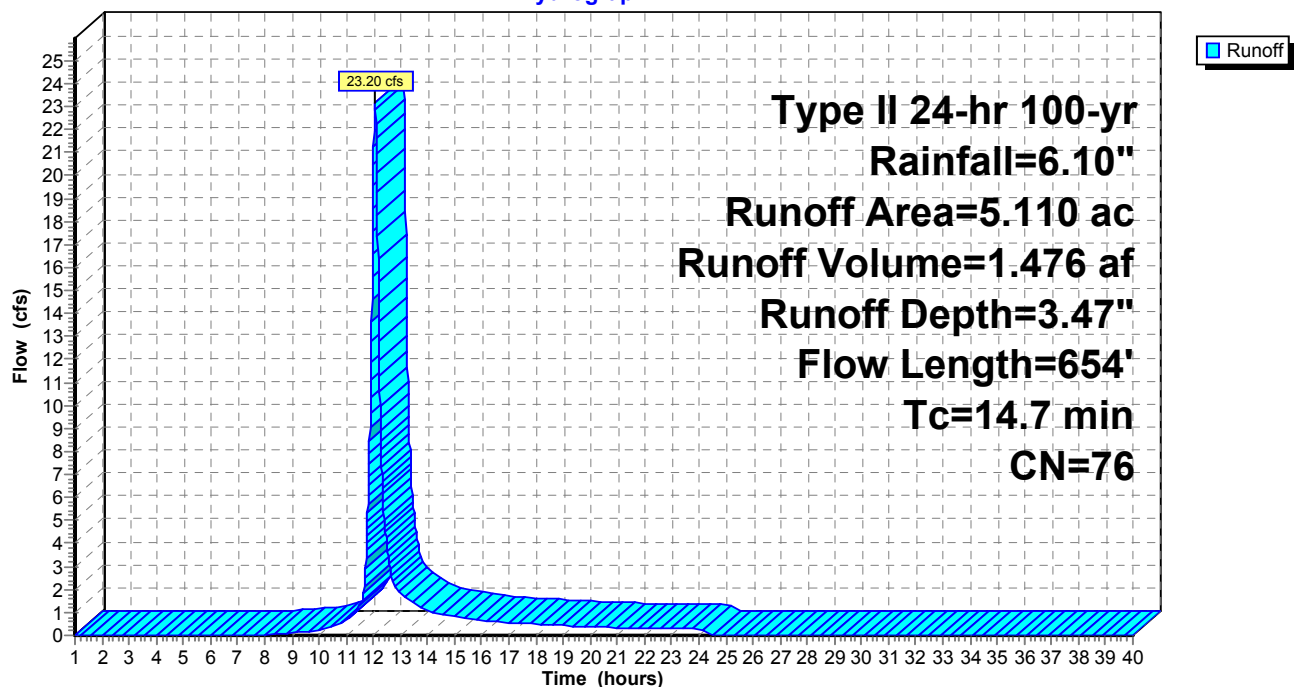
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.110	76	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	654	0.0300	0.7		Lag/CN Method,

Subcatchment W128: W128

Hydrograph



Subcatchment W129: W129

Runoff = 82.68 cfs @ 12.11 hrs, Volume= 6.158 af, Depth= 4.18"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

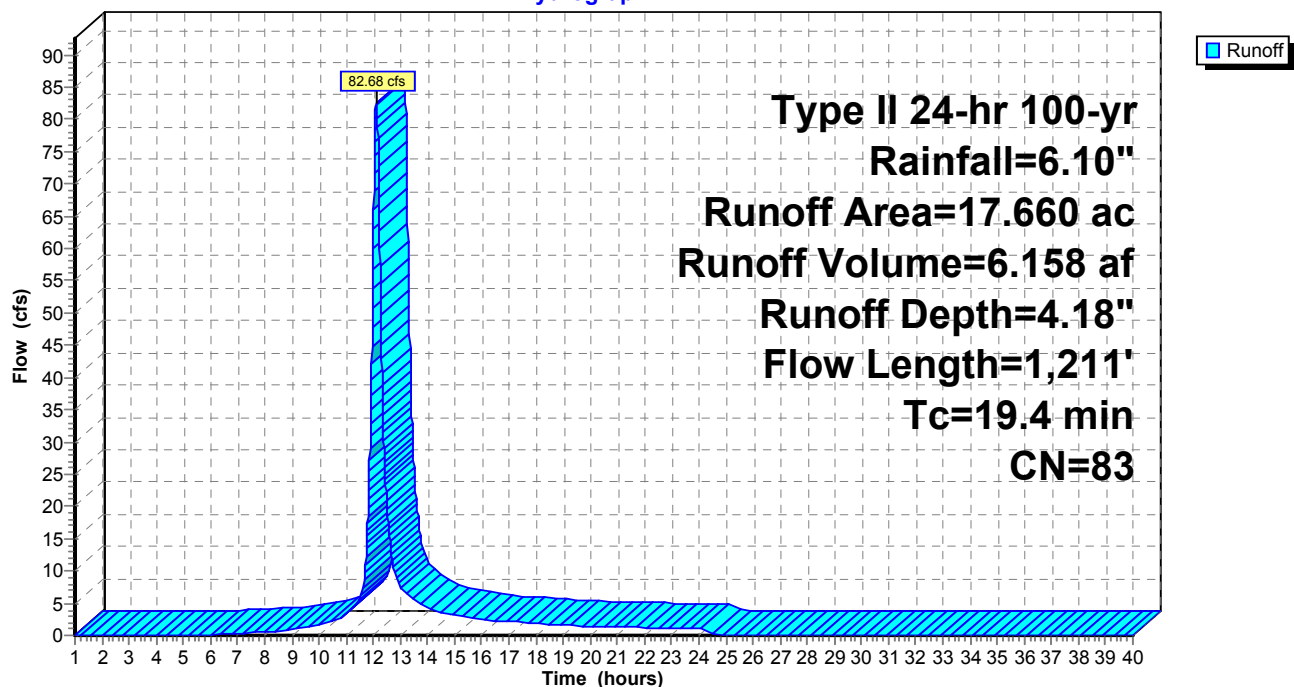
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
17.660	83	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.4	1,211	0.0300	1.0		Lag/CN Method,

Subcatchment W129: W129

Hydrograph



Subcatchment W13: W13

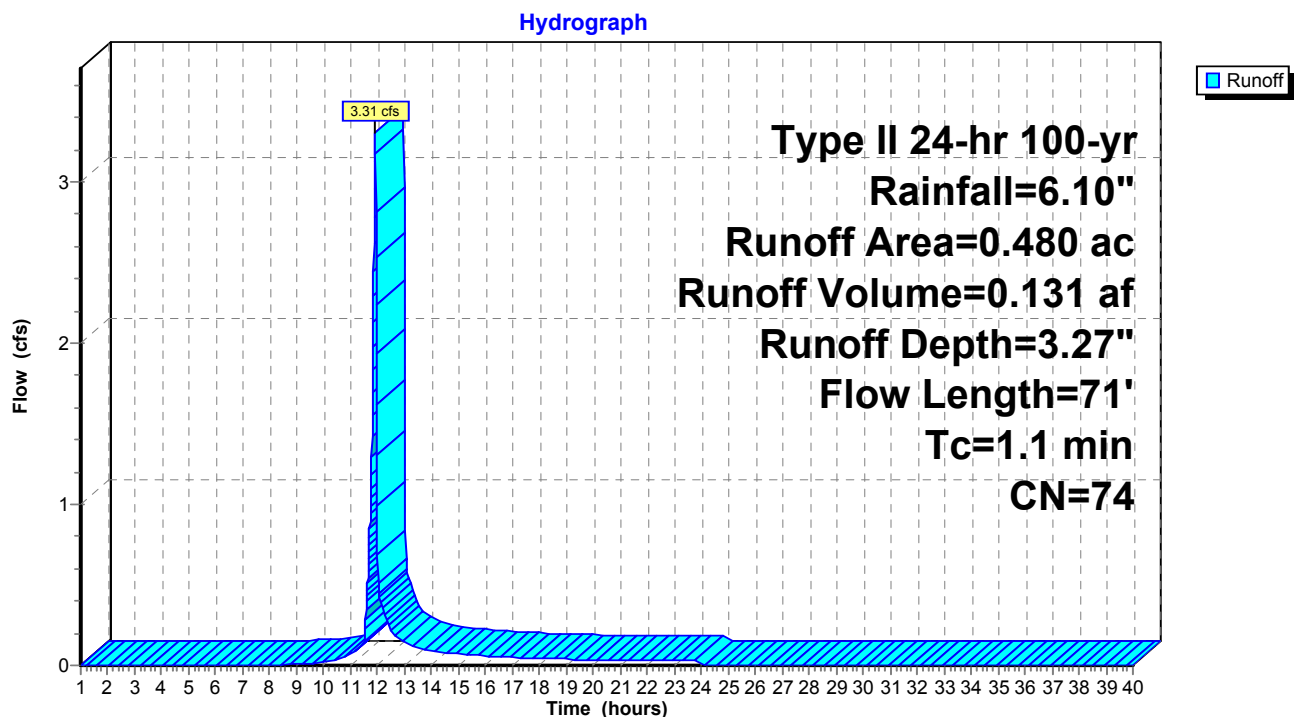
Runoff = 3.31 cfs @ 11.91 hrs, Volume= 0.131 af, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
0.480	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	71	0.1700	1.1		Lag/CN Method,

Subcatchment W13: W13

Subcatchment W134: W134

Runoff = 46.36 cfs @ 12.02 hrs, Volume= 2.676 af, Depth= 4.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

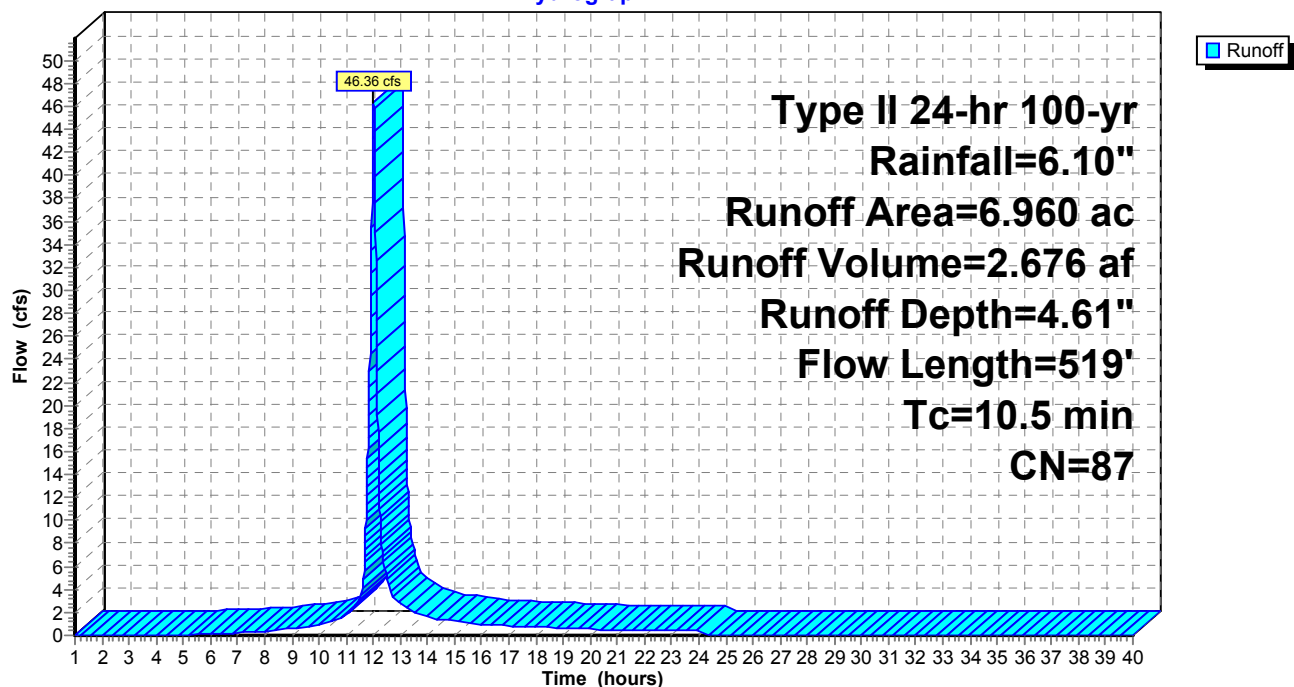
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
6.960	87	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	519	0.0200	0.8		Lag/CN Method,

Subcatchment W134: W134

Hydrograph



Subcatchment W135: W135

Runoff = 50.76 cfs @ 12.44 hrs, Volume= 6.369 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

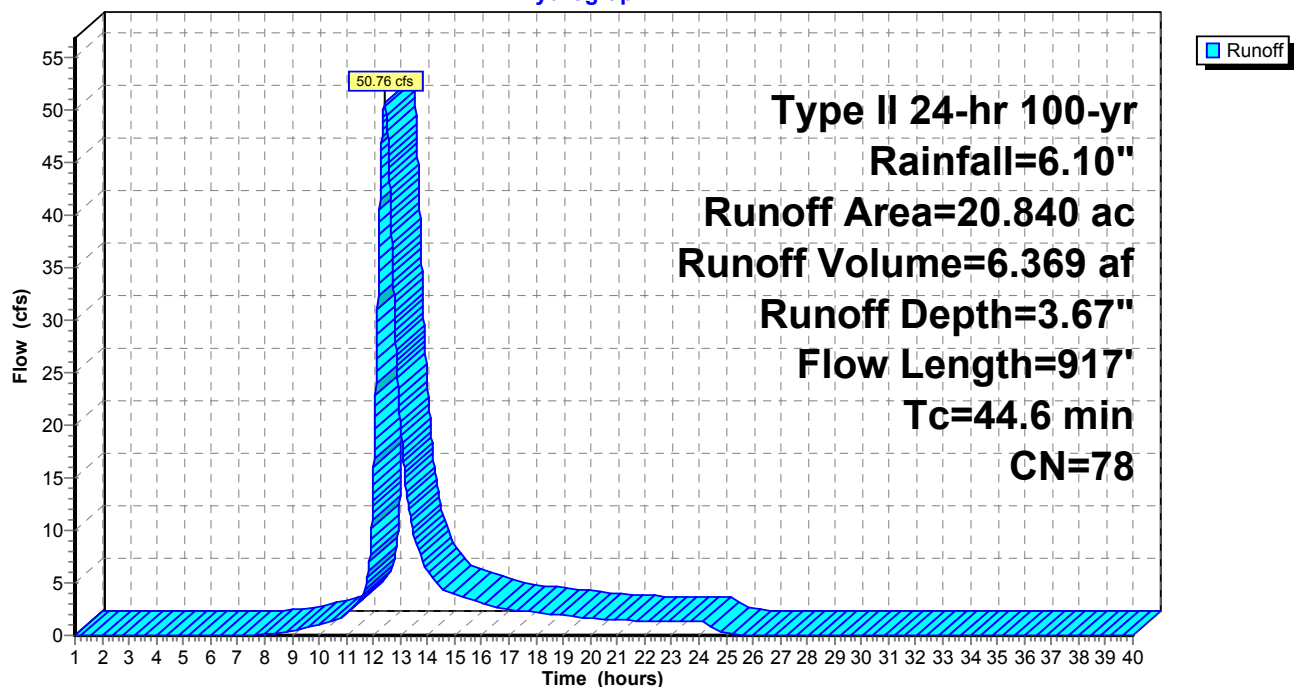
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
20.840	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.6	917	0.0050	0.3		Lag/CN Method,

Subcatchment W135: W135

Hydrograph



Subcatchment w136: w136

Runoff = 12.96 cfs @ 12.00 hrs, Volume= 0.675 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

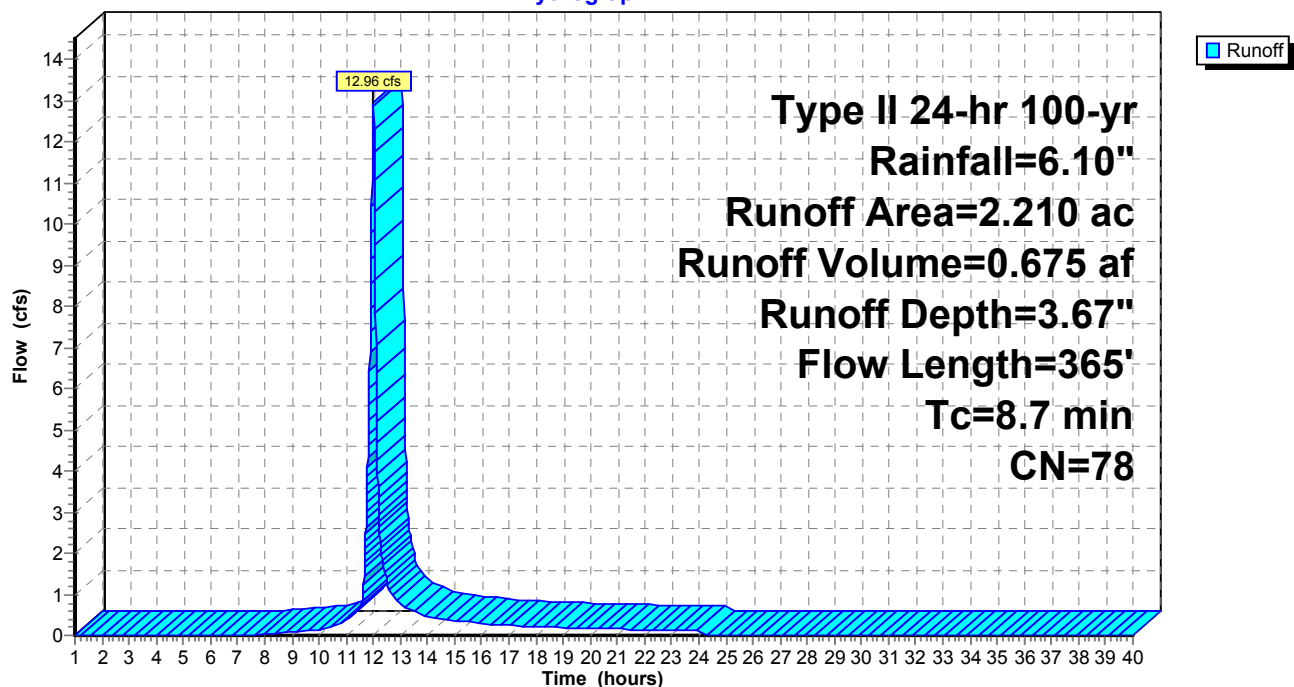
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
2.210	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	365	0.0300	0.7		Lag/CN Method,

Subcatchment w136: w136

Hydrograph



Subcatchment W137: W137

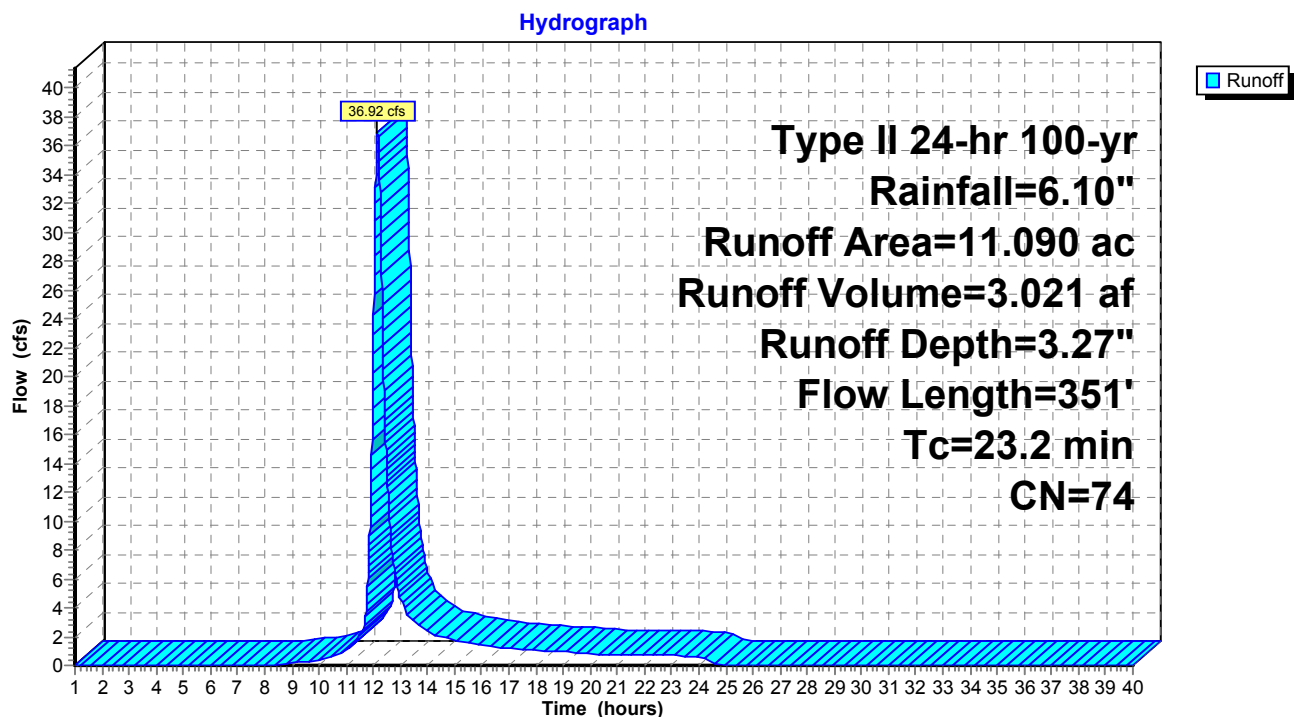
Runoff = 36.92 cfs @ 12.17 hrs, Volume= 3.021 af, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
11.090	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.2	351	0.0050	0.3		Lag/CN Method,

Subcatchment W137: W137

Subcatchment W138: W138

Runoff = 22.00 cfs @ 12.76 hrs, Volume= 3.939 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

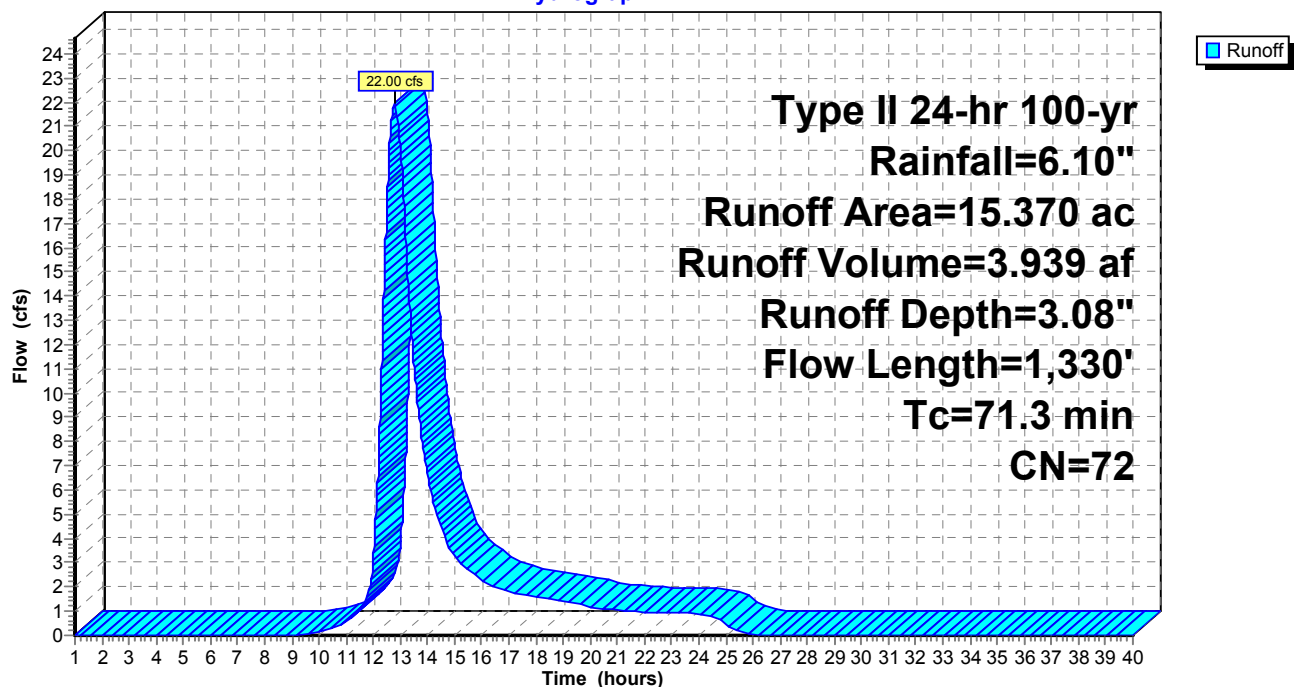
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
15.370	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.3	1,330	0.0050	0.3		Lag/CN Method,

Subcatchment W138: W138

Hydrograph



Subcatchment W139: W139

Runoff = 53.58 cfs @ 12.31 hrs, Volume= 5.888 af, Depth= 3.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

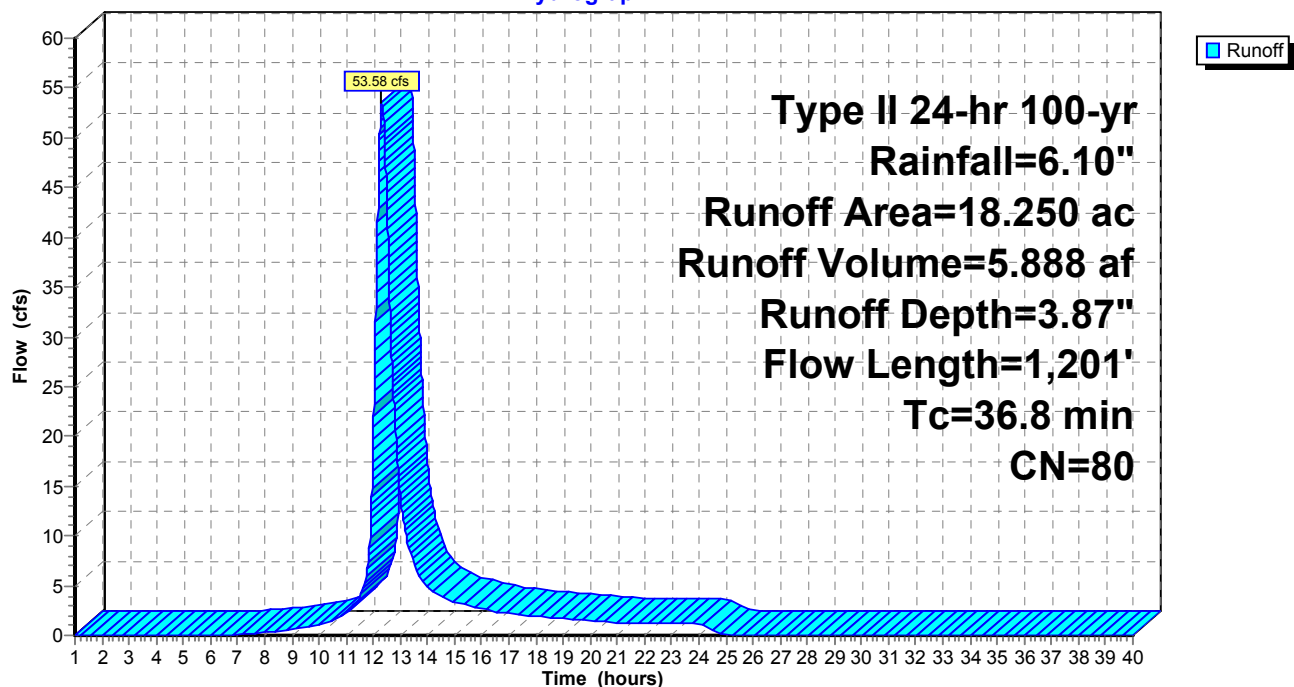
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.250	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	1,201	0.0100	0.5		Lag/CN Method,

Subcatchment W139: W139

Hydrograph



Subcatchment W14: W14

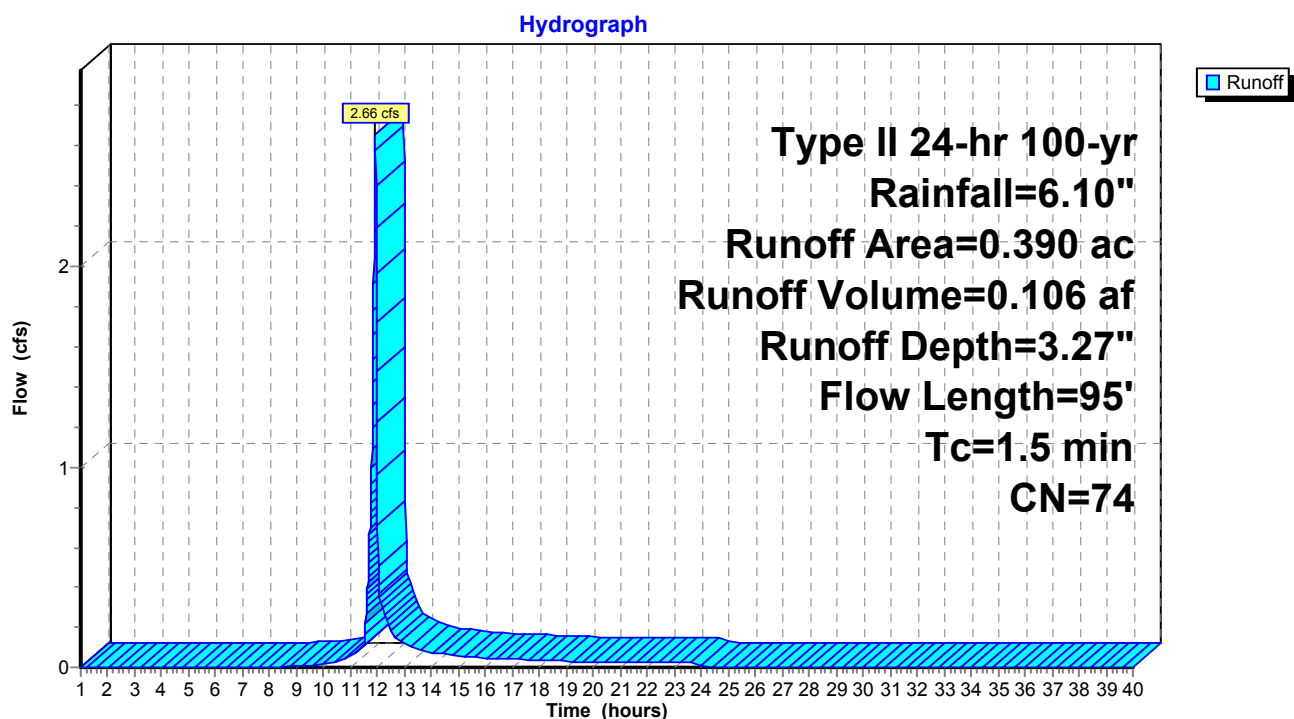
Runoff = 2.66 cfs @ 11.92 hrs, Volume= 0.106 af, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
0.390	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	95	0.1500	1.1		Lag/CN Method,

Subcatchment W14: W14

Subcatchment W140: W140

Runoff = 5.04 cfs @ 12.03 hrs, Volume= 0.299 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

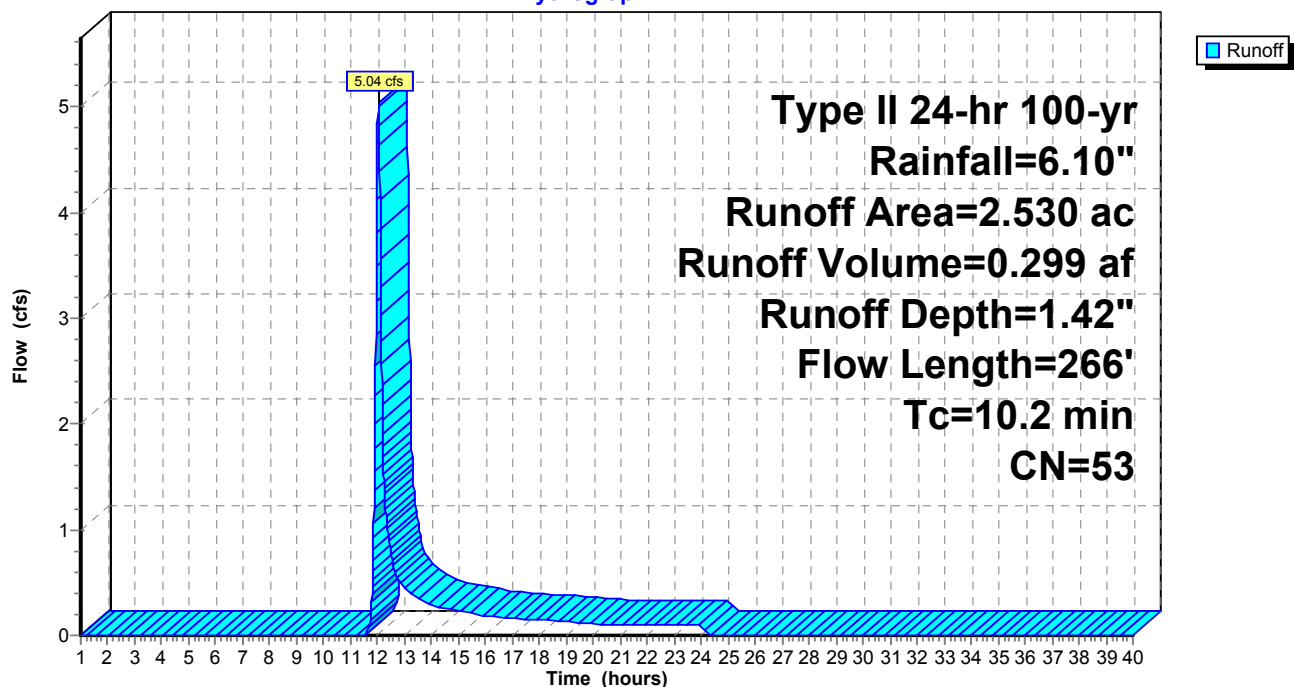
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
2.530	53	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	266	0.0500	0.4		Lag/CN Method,

Subcatchment W140: W140

Hydrograph



Subcatchment W141: W141

Runoff = 91.19 cfs @ 12.08 hrs, Volume= 6.087 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

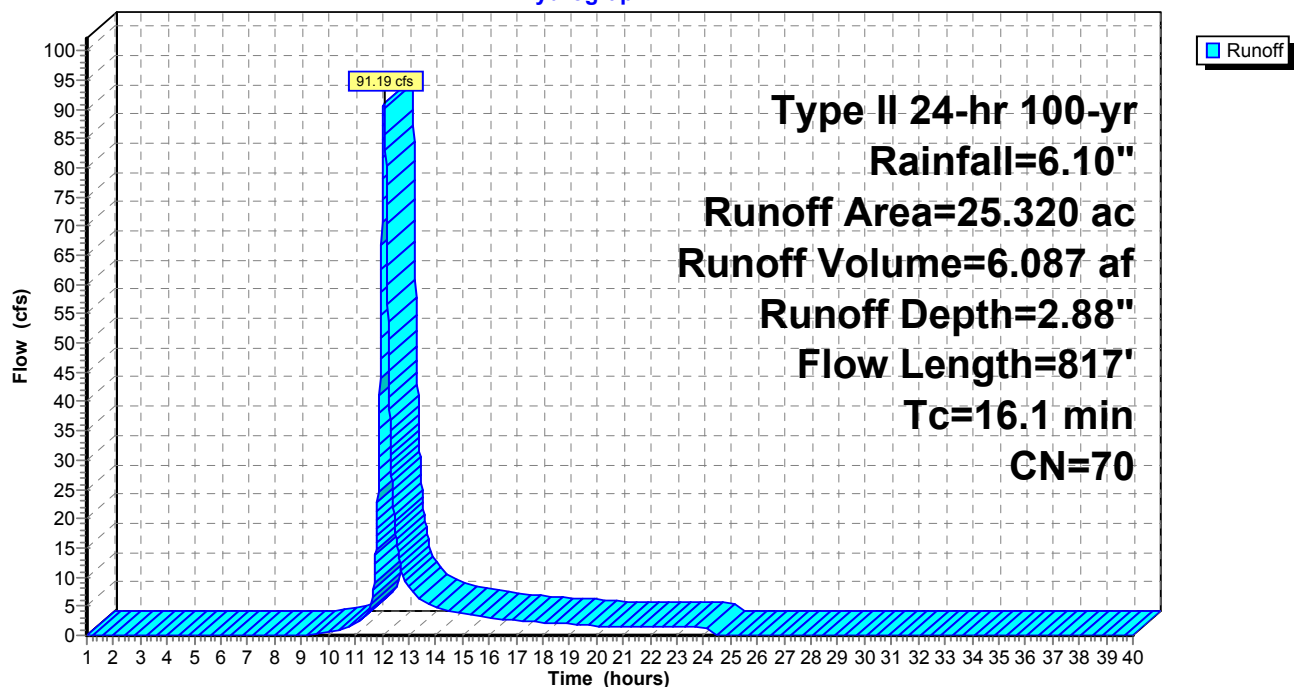
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
25.320	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	817	0.0500	0.8		Lag/CN Method,

Subcatchment W141: W141

Hydrograph



Subcatchment W142: W142

Runoff = 42.78 cfs @ 12.09 hrs, Volume= 2.904 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

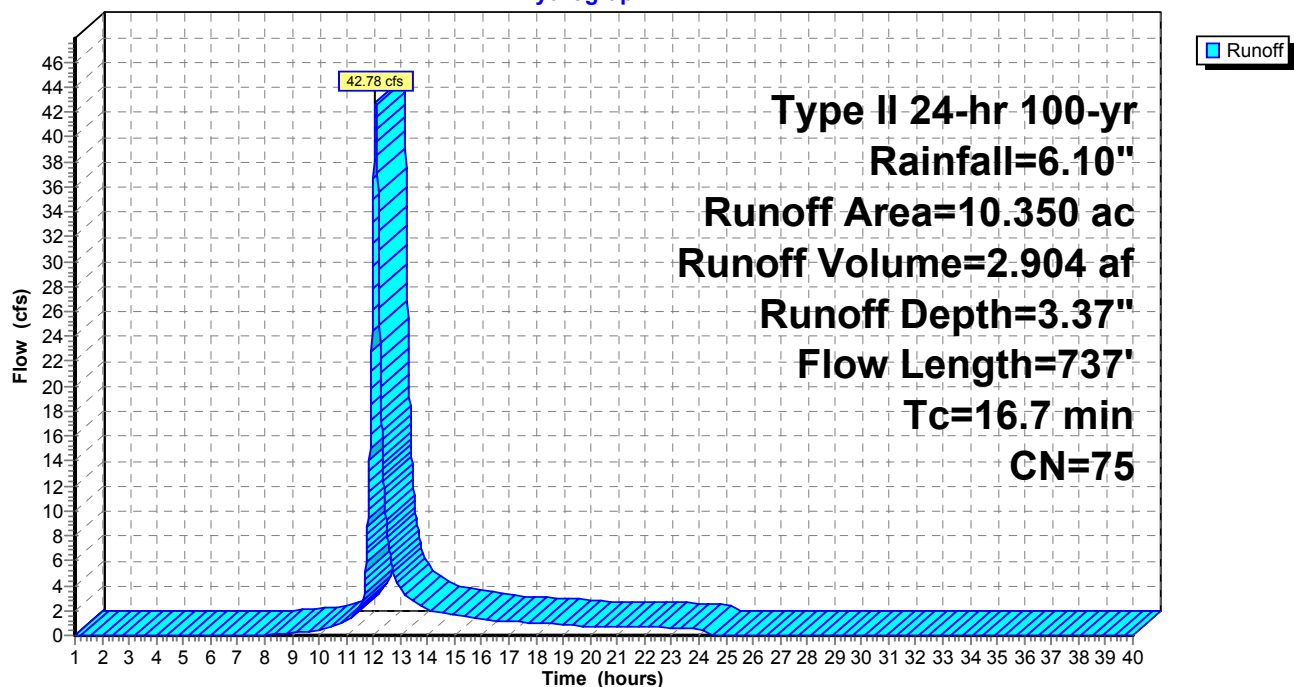
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
10.350	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.7	737	0.0300	0.7		Lag/CN Method,

Subcatchment W142: W142

Hydrograph



Subcatchment W143: W143

Runoff = 21.80 cfs @ 12.08 hrs, Volume= 1.457 af, Depth= 3.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

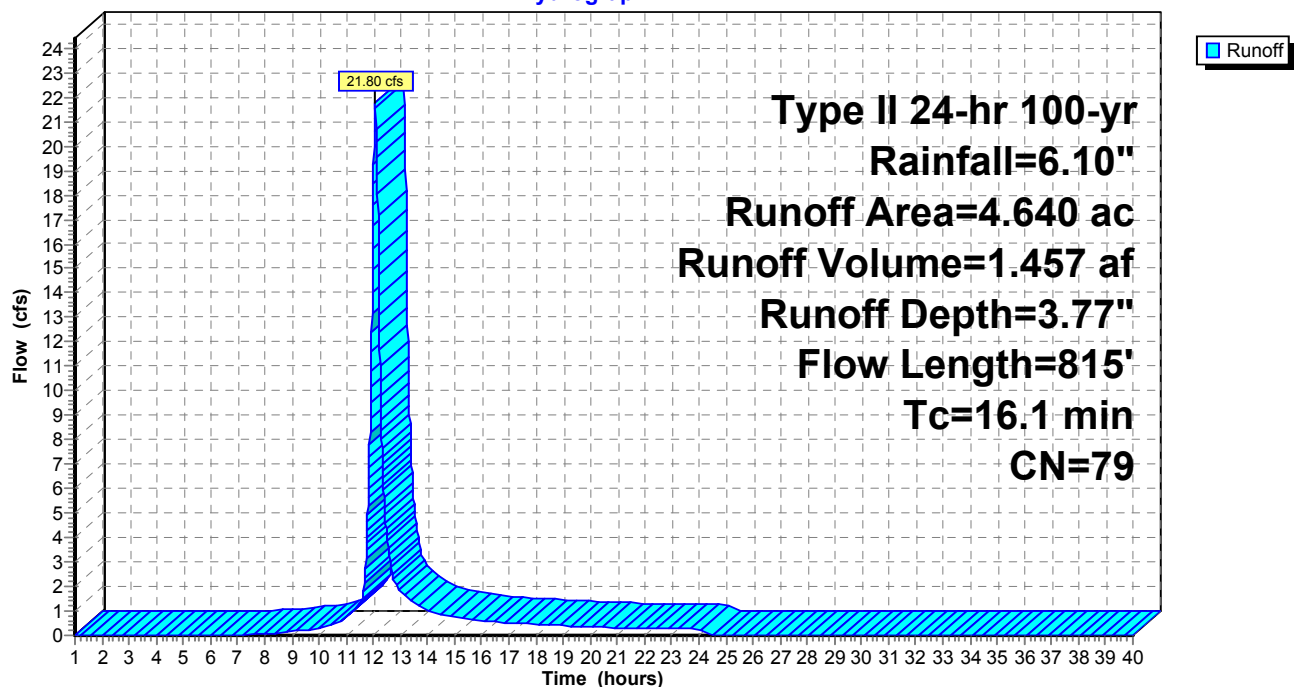
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
4.640	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	815	0.0300	0.8		Lag/CN Method,

Subcatchment W143: W143

Hydrograph



Subcatchment W144: W144

Runoff = 18.83 cfs @ 12.08 hrs, Volume= 1.217 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

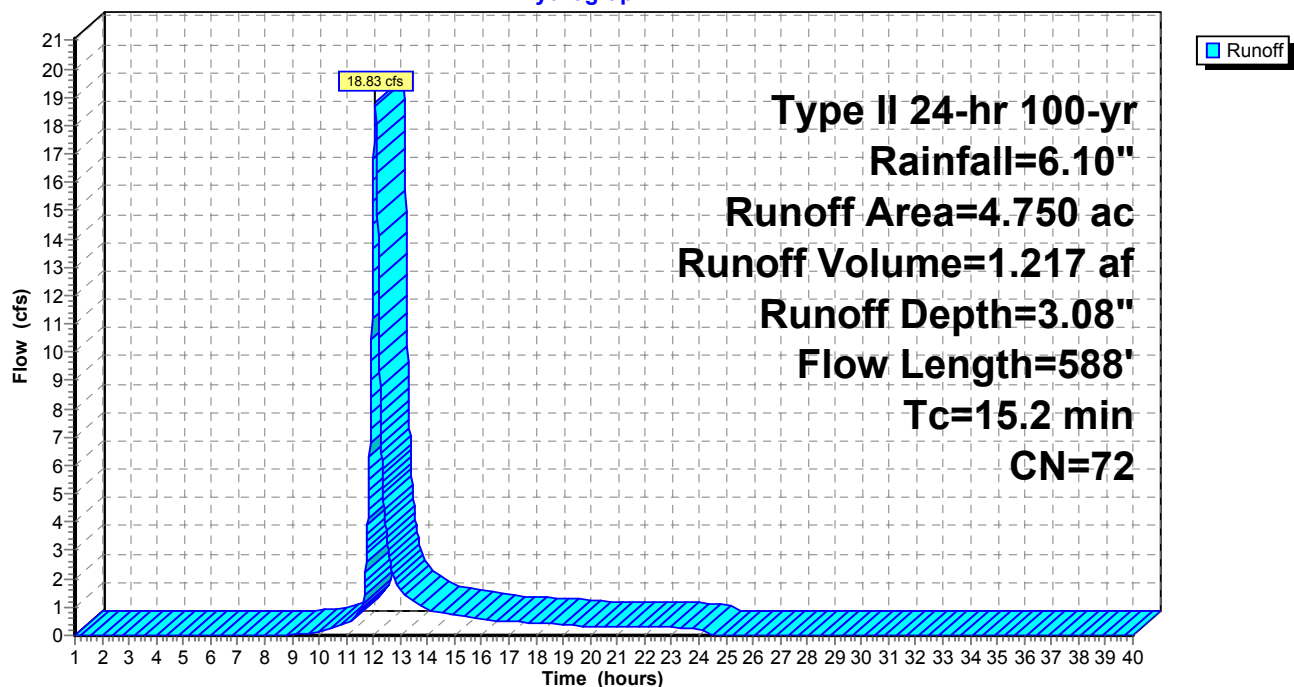
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
4.750	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	588	0.0300	0.6		Lag/CN Method,

Subcatchment W144: W144

Hydrograph



Subcatchment W145: W145

Runoff = 44.40 cfs @ 12.14 hrs, Volume= 3.462 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

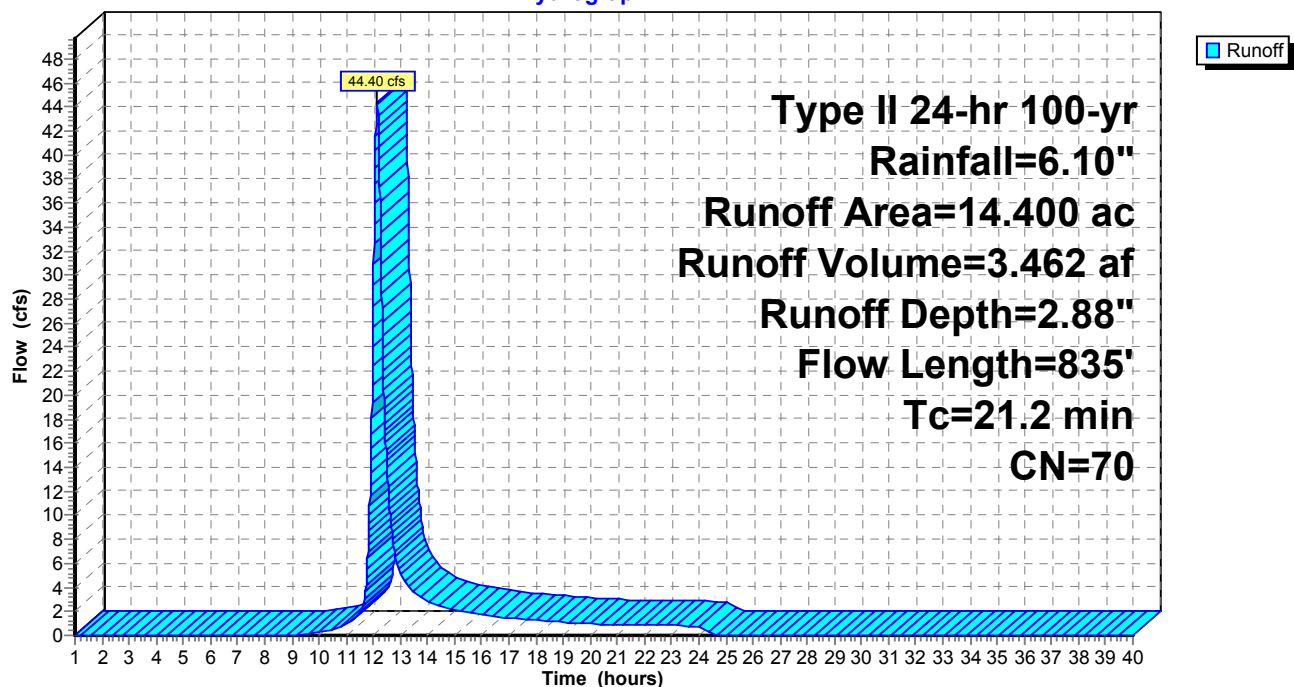
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
14.400	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	835	0.0300	0.7		Lag/CN Method,

Subcatchment W145: W145

Hydrograph



Subcatchment W146: W146

Runoff = 66.82 cfs @ 12.17 hrs, Volume= 5.615 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

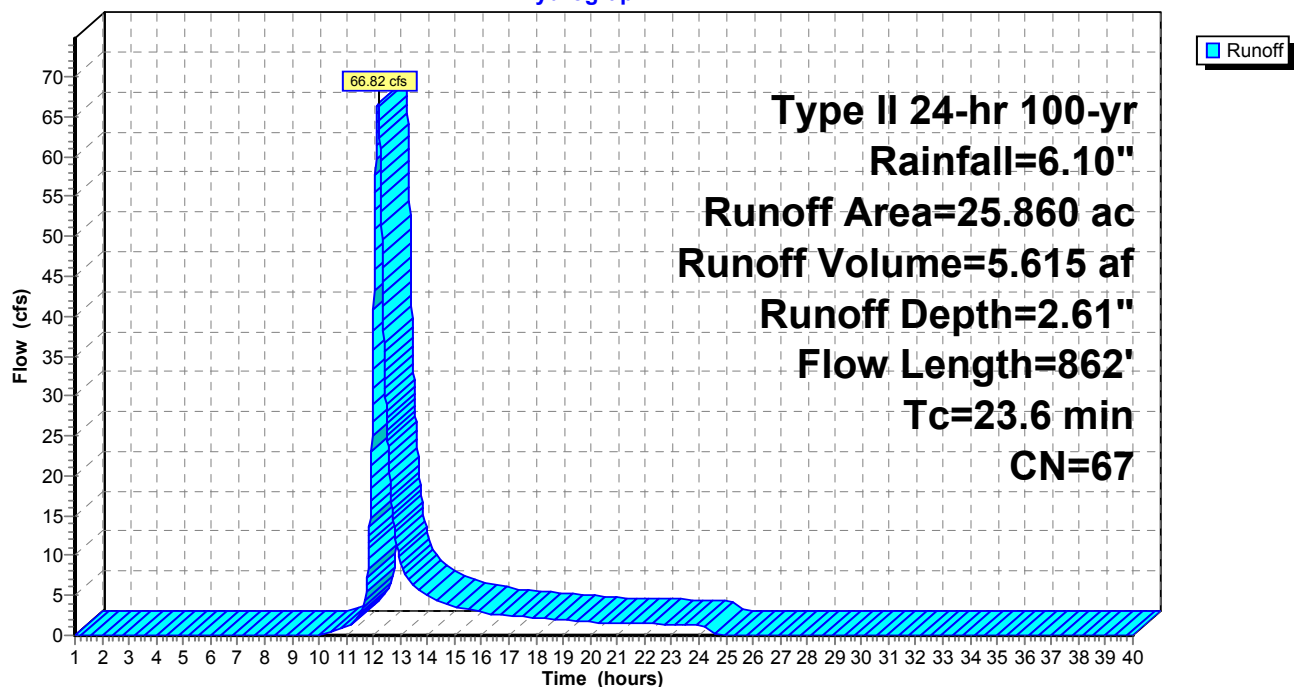
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
25.860	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.6	862	0.0300	0.6		Lag/CN Method,

Subcatchment W146: W146

Hydrograph



Subcatchment W150: W150

Runoff = 78.95 cfs @ 12.22 hrs, Volume= 7.445 af, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

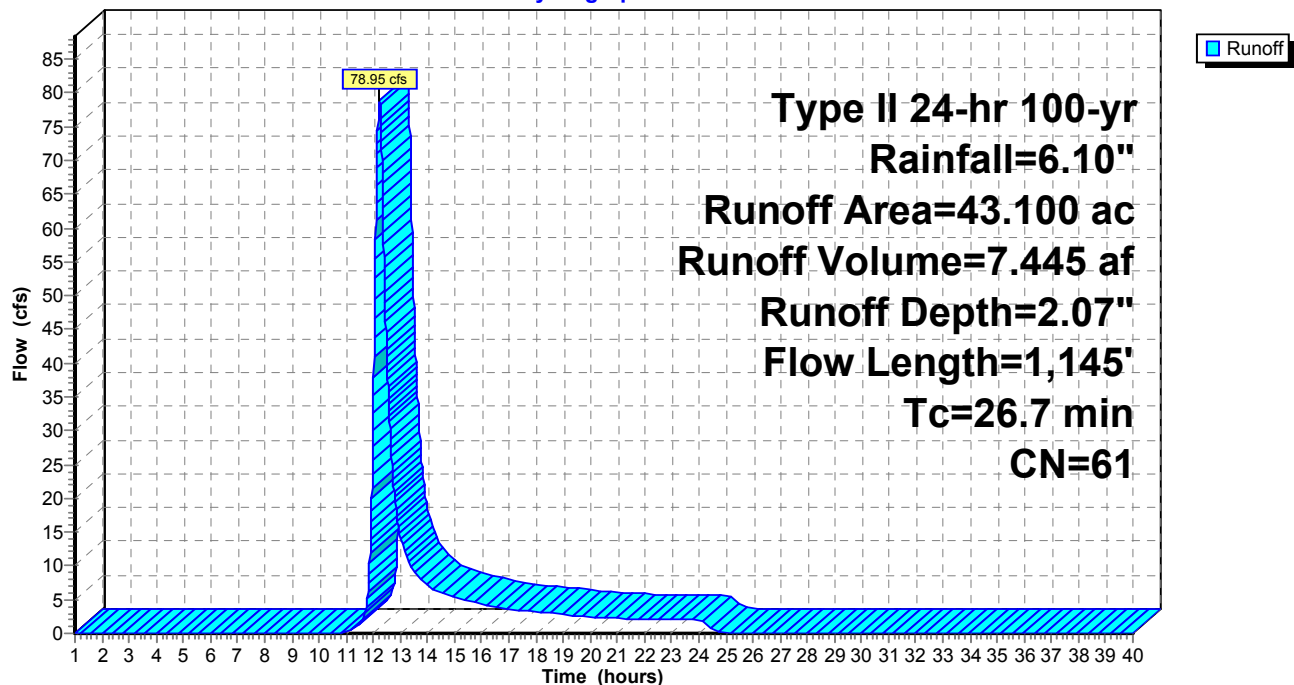
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
43.100	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,145	0.0500	0.7		Lag/CN Method,

Subcatchment W150: W150

Hydrograph



Subcatchment W2: W2

Runoff = 24.91 cfs @ 11.96 hrs, Volume= 1.174 af, Depth= 1.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

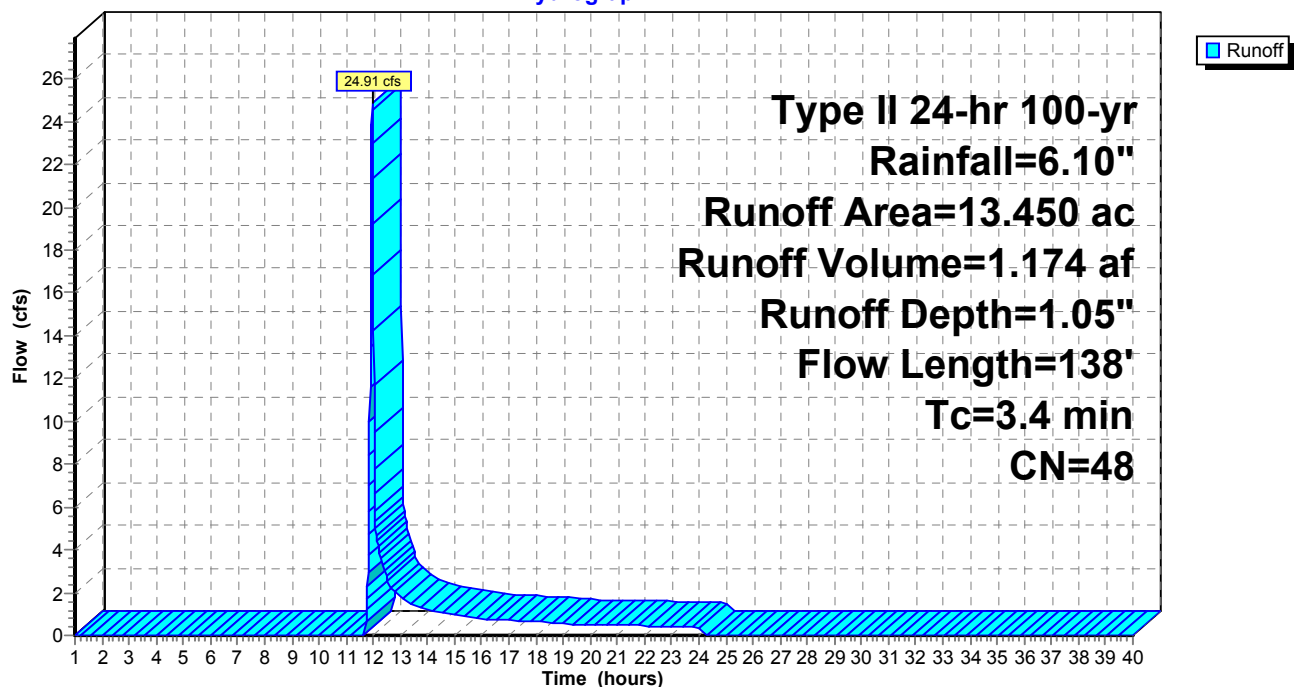
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
13.450	48	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	138	0.2000	0.7		Lag/CN Method,

Subcatchment W2: W2

Hydrograph



Subcatchment W30: W30

Runoff = 95.50 cfs @ 11.97 hrs, Volume= 4.296 af, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

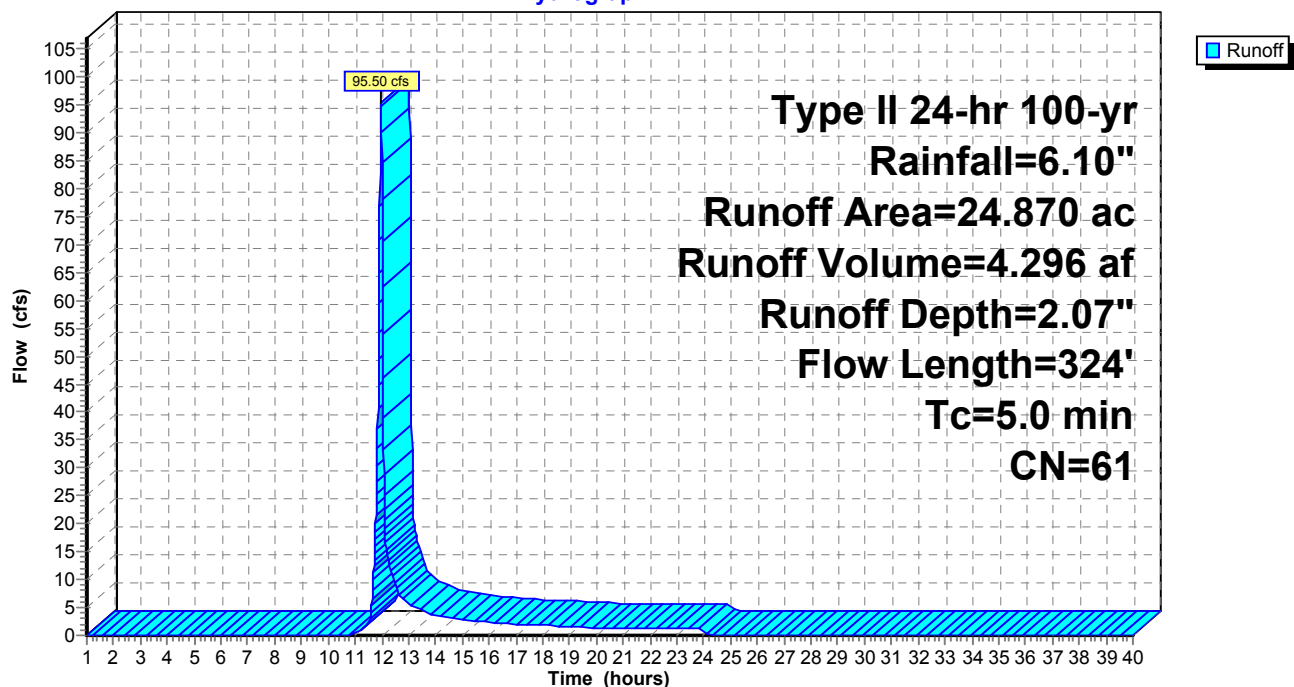
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
24.870	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	324	0.1900	1.1		Lag/CN Method,

Subcatchment W30: W30

Hydrograph



Subcatchment W31: W31

Runoff = 159.98 cfs @ 12.05 hrs, Volume= 9.611 af, Depth= 2.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

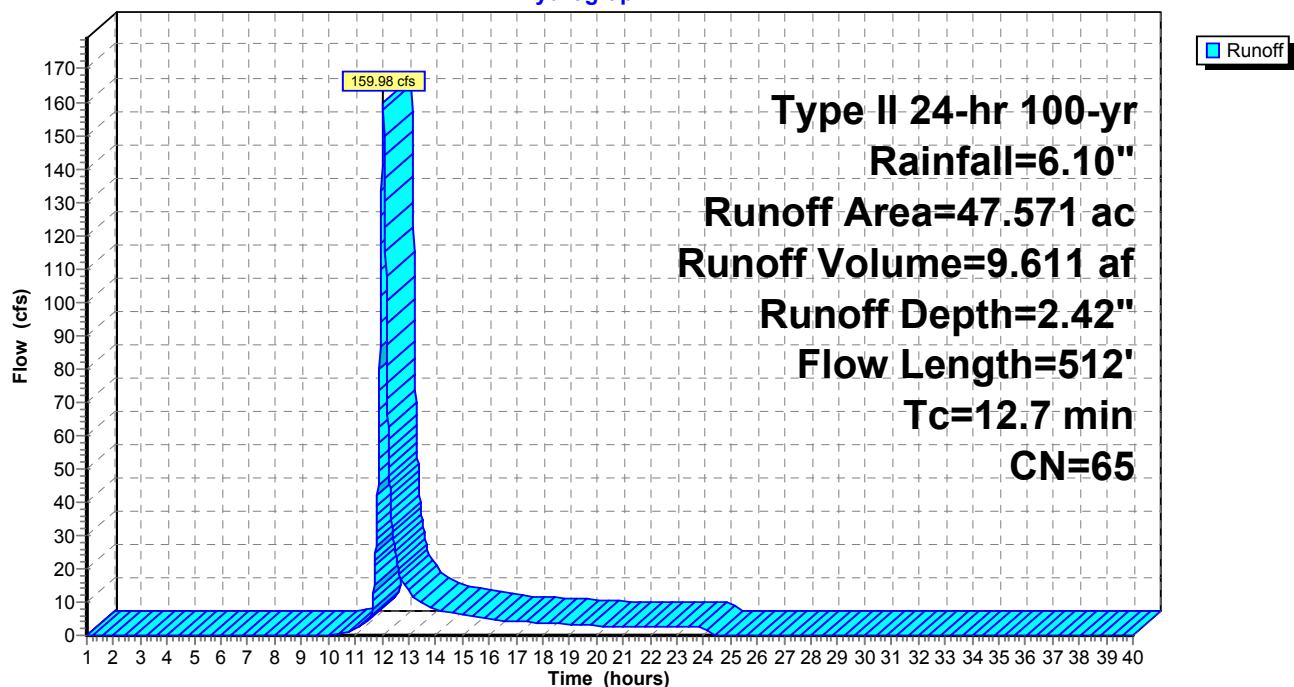
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
47.571	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	512	0.0500	0.7		Lag/CN Method,

Subcatchment W31: W31

Hydrograph



Subcatchment W32: W32

Runoff = 251.32 cfs @ 12.01 hrs, Volume= 13.184 af, Depth= 2.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

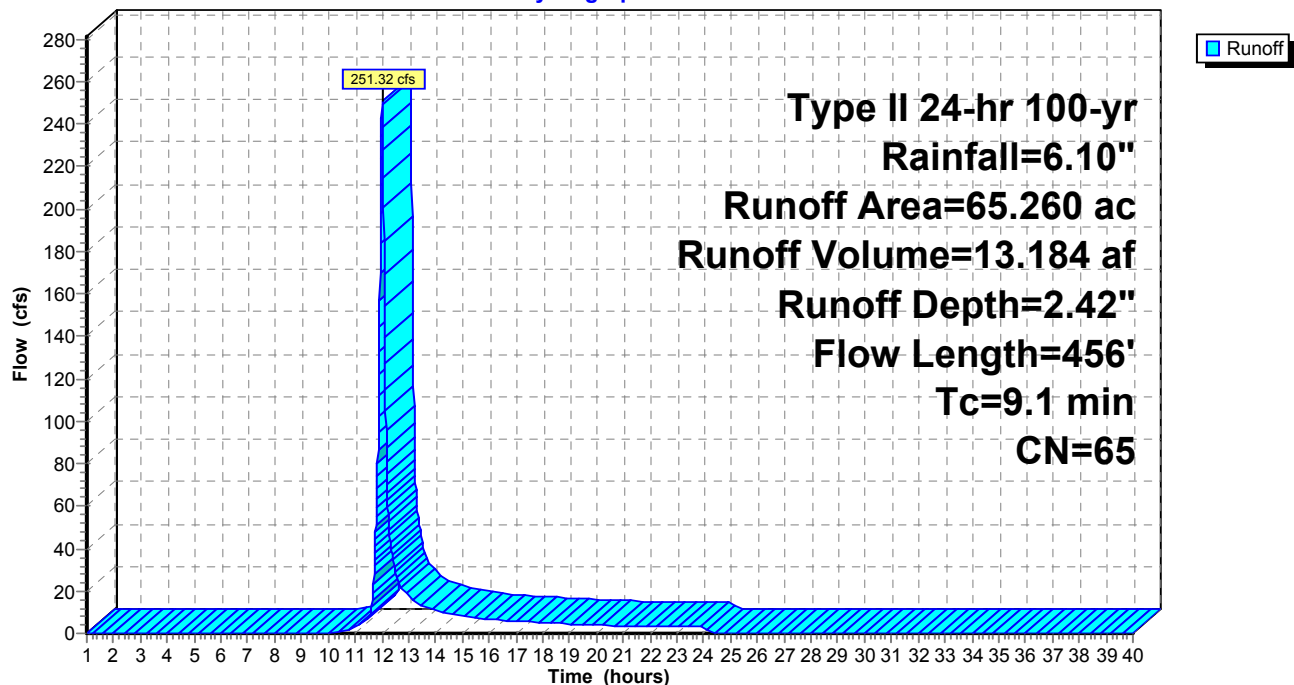
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
65.260	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	456	0.0800	0.8		Lag/CN Method,

Subcatchment W32: W32

Hydrograph



Subcatchment W33: W33

Runoff = 45.72 cfs @ 11.95 hrs, Volume= 1.957 af, Depth= 1.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

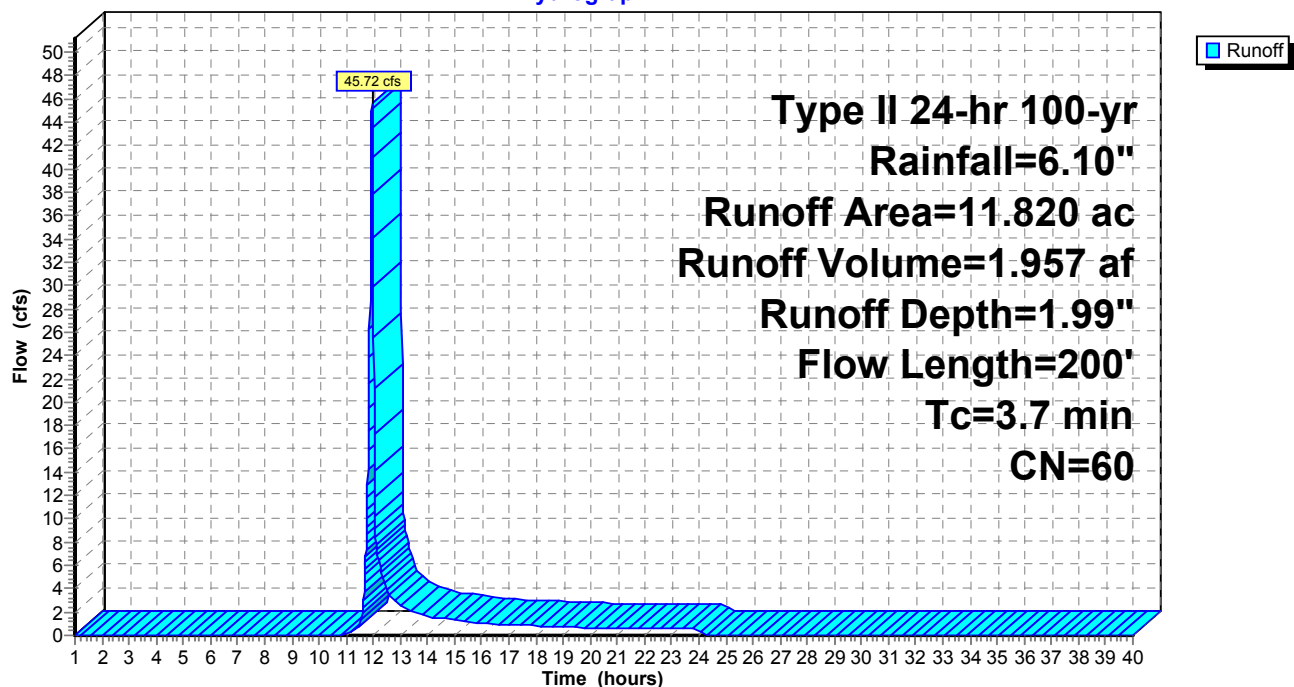
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
11.820	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	200	0.1700	0.9		Lag/CN Method,

Subcatchment W33: W33

Hydrograph



Subcatchment W34: W34

Runoff = 40.31 cfs @ 12.01 hrs, Volume= 2.080 af, Depth= 1.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

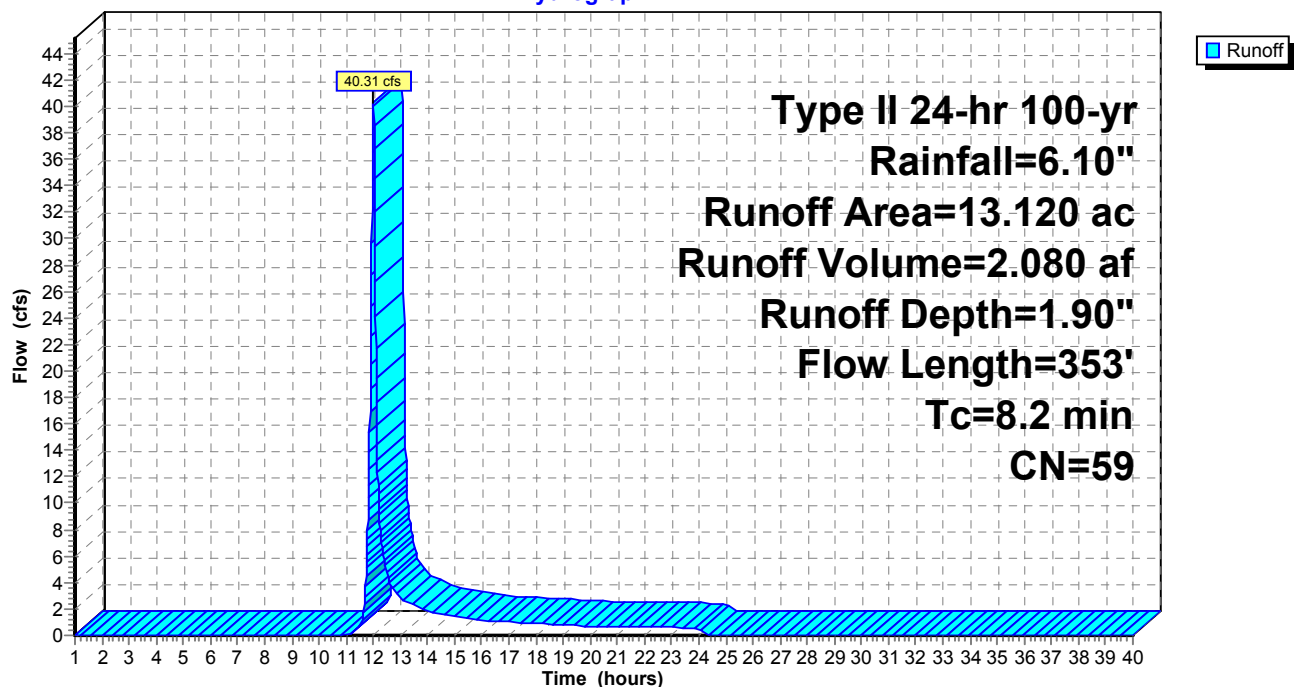
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
13.120	59	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	353	0.0900	0.7		Lag/CN Method,

Subcatchment W34: W34

Hydrograph



Subcatchment W35: W35

Runoff = 19.80 cfs @ 11.96 hrs, Volume= 0.861 af, Depth= 1.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

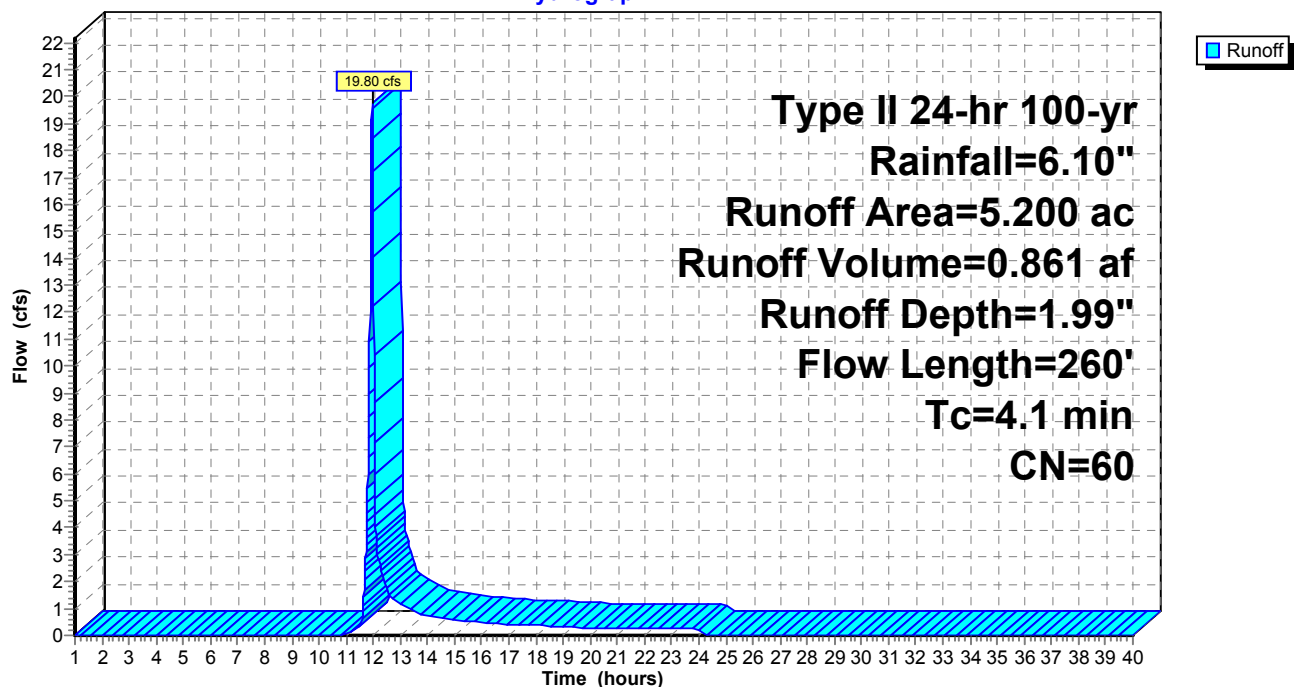
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.200	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	260	0.2100	1.1		Lag/CN Method,

Subcatchment W35: W35

Hydrograph



Subcatchment W36: W36

Runoff = 17.17 cfs @ 11.98 hrs, Volume= 0.815 af, Depth= 2.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

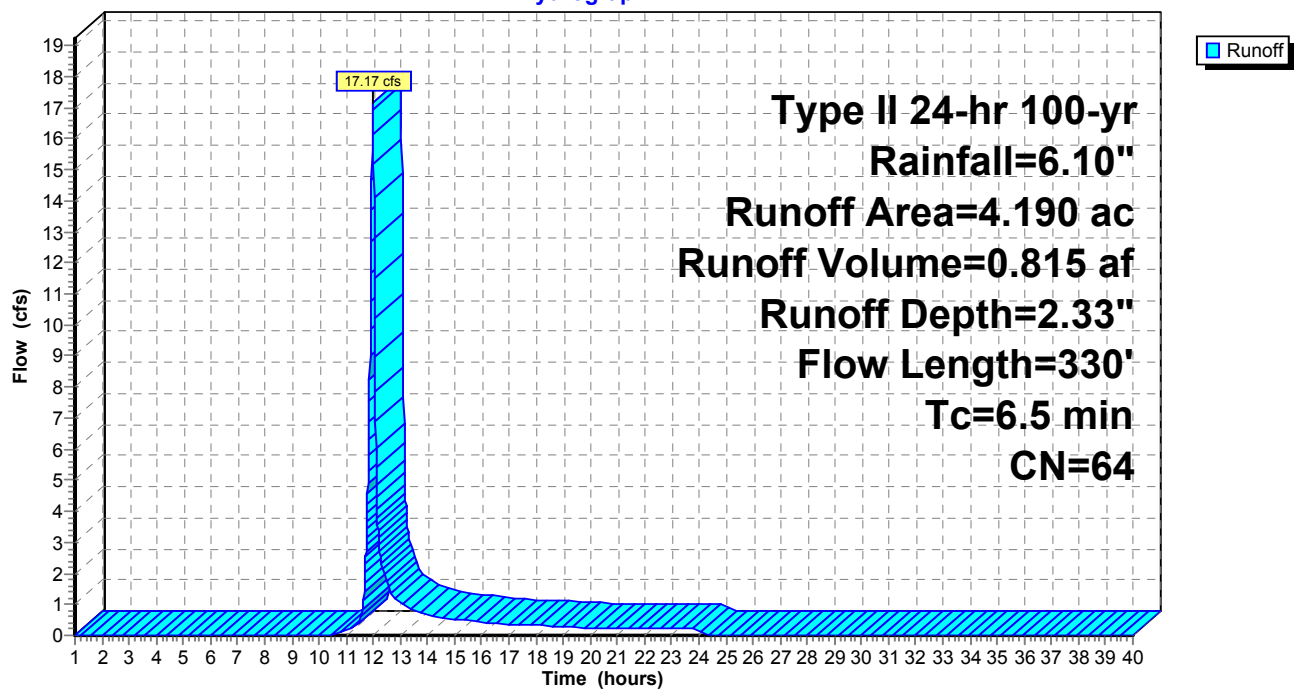
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
4.190	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	330	0.1000	0.9		Lag/CN Method,

Subcatchment W36: W36

Hydrograph



Subcatchment W37: W37

Runoff = 12.01 cfs @ 12.01 hrs, Volume= 0.641 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

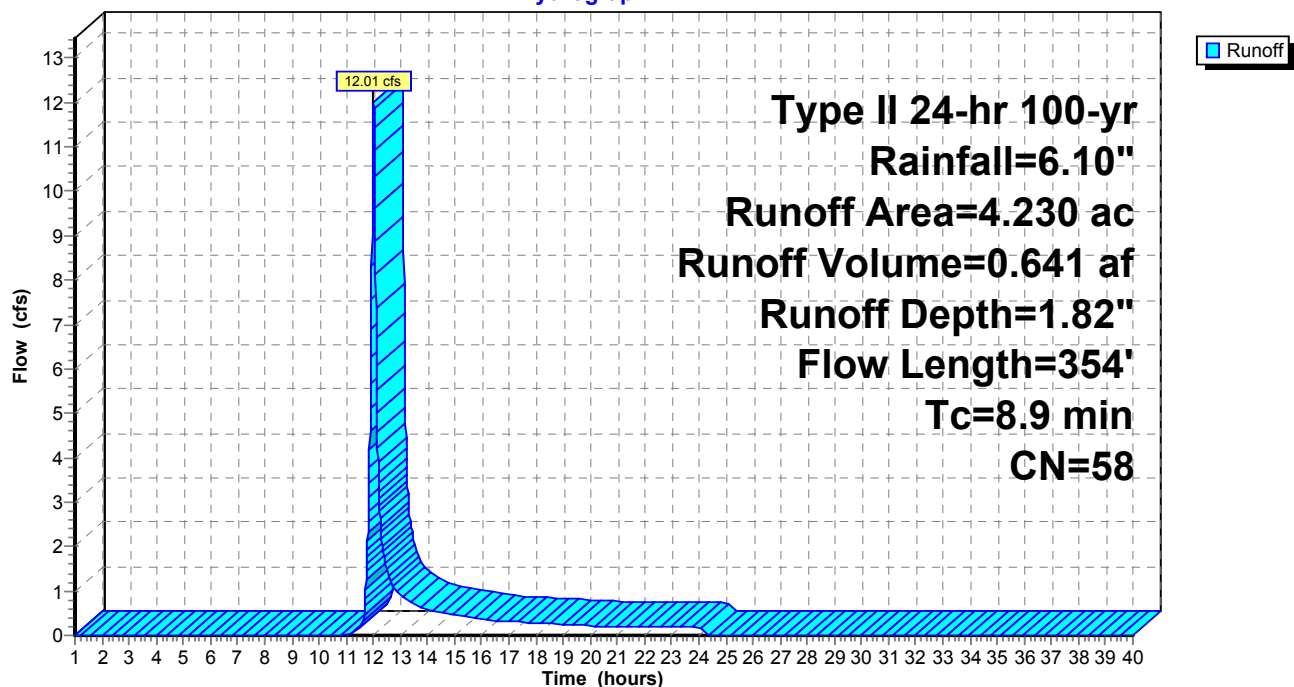
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
4.230	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	354	0.0800	0.7		Lag/CN Method,

Subcatchment W37: W37

Hydrograph



Subcatchment W38: W38

Runoff = 56.91 cfs @ 11.96 hrs, Volume= 2.532 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

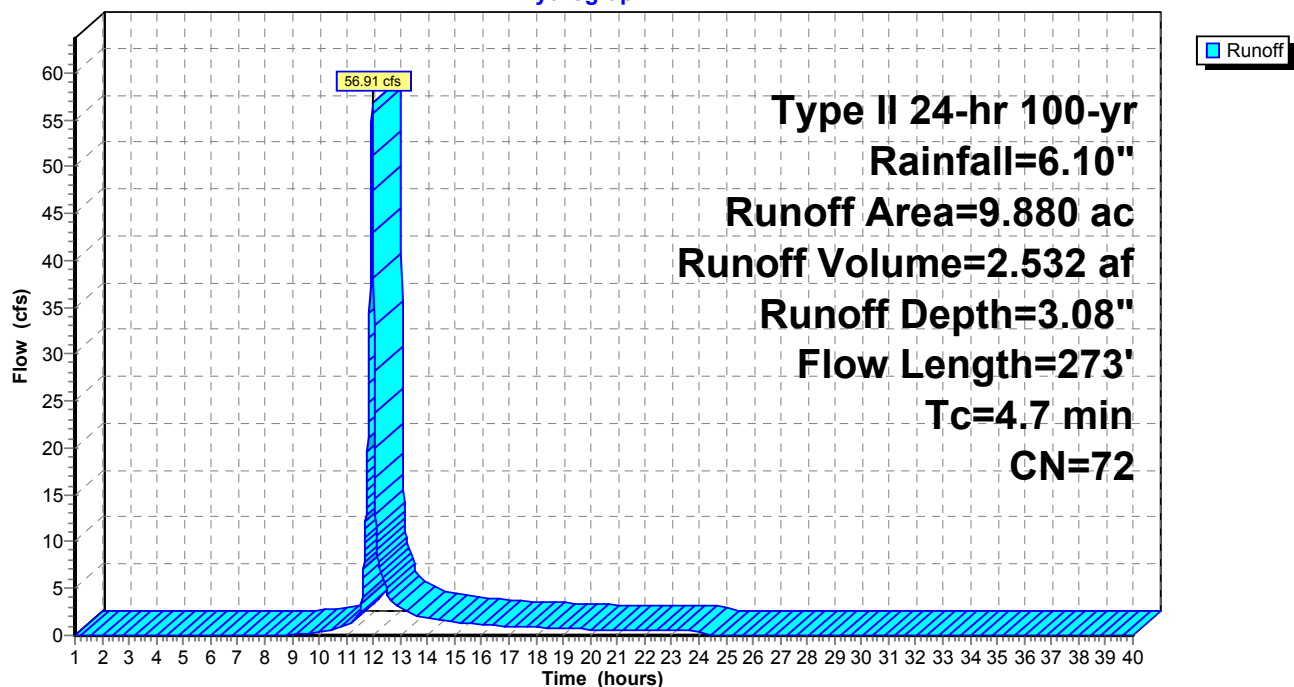
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.880	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.7	273	0.0900	1.0		Lag/CN Method,

Subcatchment W38: W38

Hydrograph



Subcatchment W39: W39

Runoff = 41.33 cfs @ 12.01 hrs, Volume= 2.201 af, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

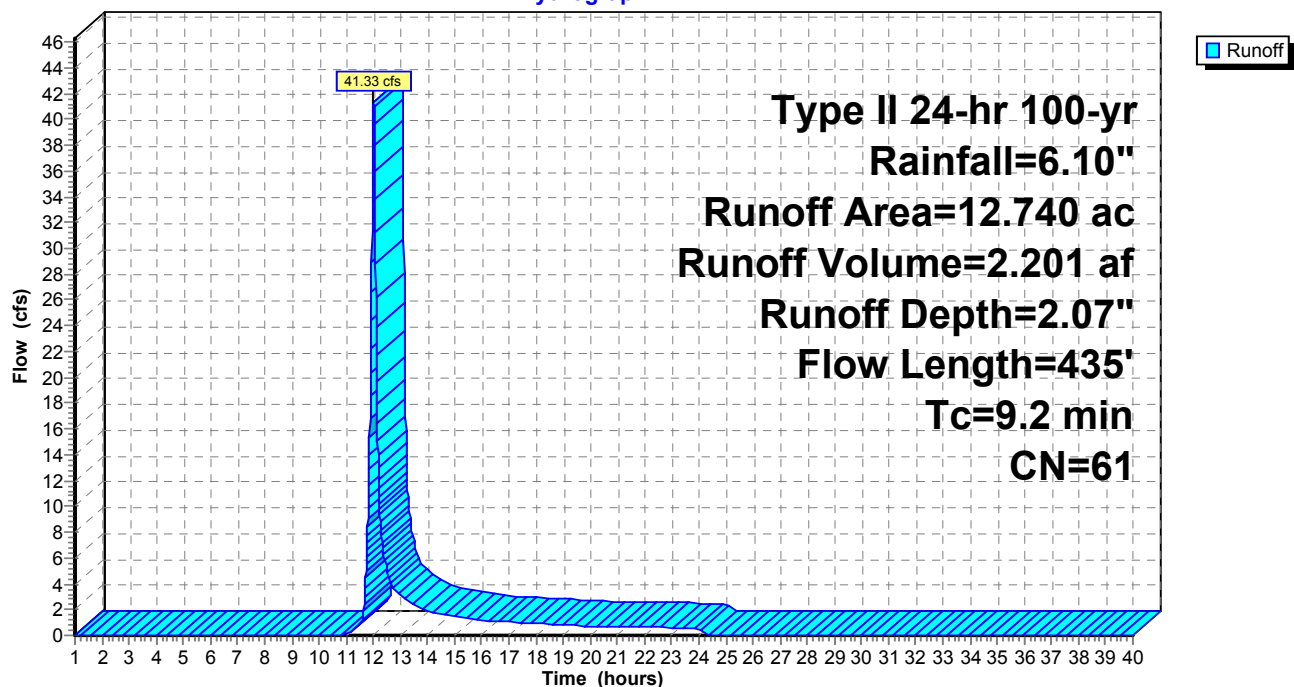
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
12.740	61	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	435	0.0900	0.8		Lag/CN Method,

Subcatchment W39: W39

Hydrograph



Subcatchment W40: W40

Runoff = 131.50 cfs @ 11.95 hrs, Volume= 5.833 af, Depth= 3.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

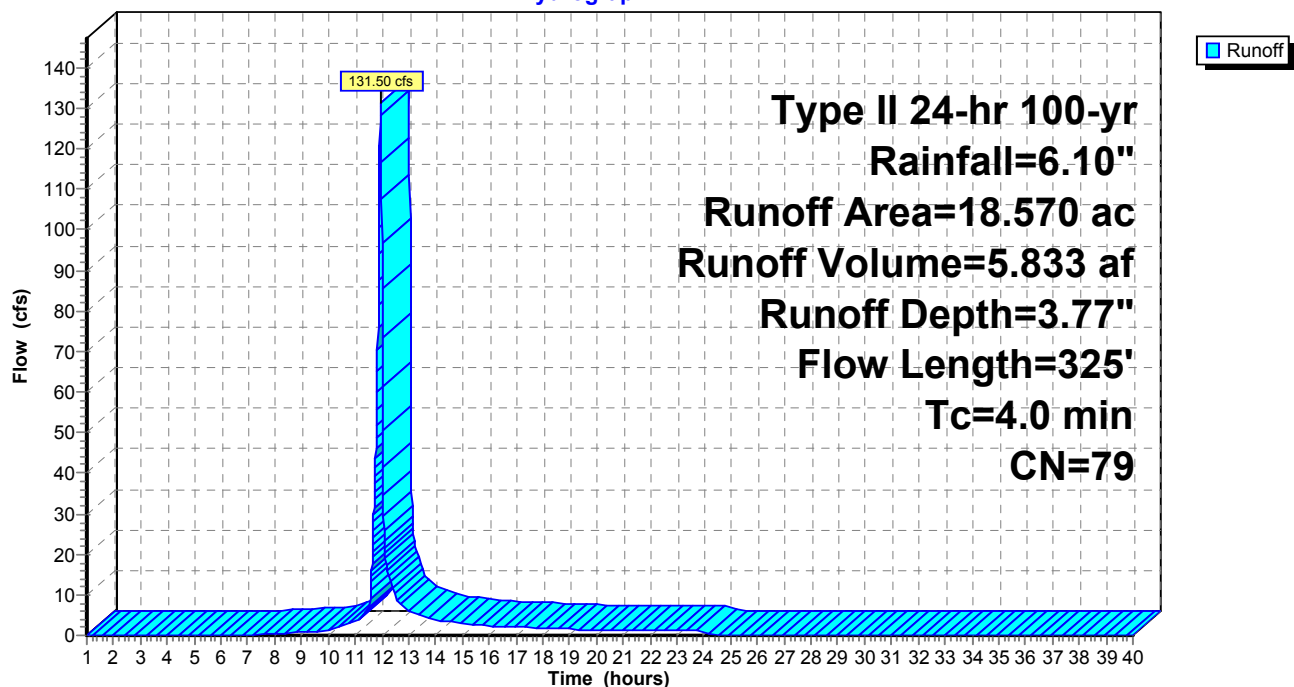
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.570	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	325	0.1100	1.3		Lag/CN Method,

Subcatchment W40: W40

Hydrograph



Subcatchment W41: W41

Runoff = 31.43 cfs @ 11.99 hrs, Volume= 1.532 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

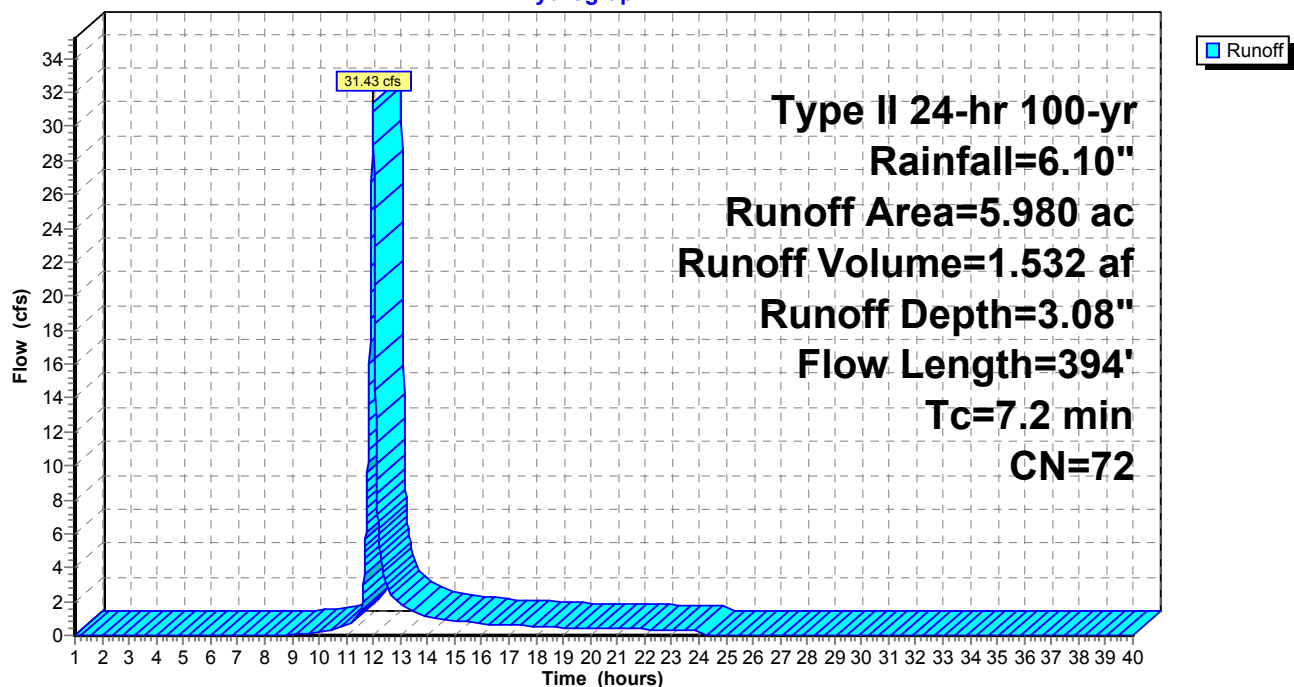
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.980	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	394	0.0700	0.9		Lag/CN Method,

Subcatchment W41: W41

Hydrograph



Subcatchment W42: W42

Runoff = 29.50 cfs @ 11.94 hrs, Volume= 1.228 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

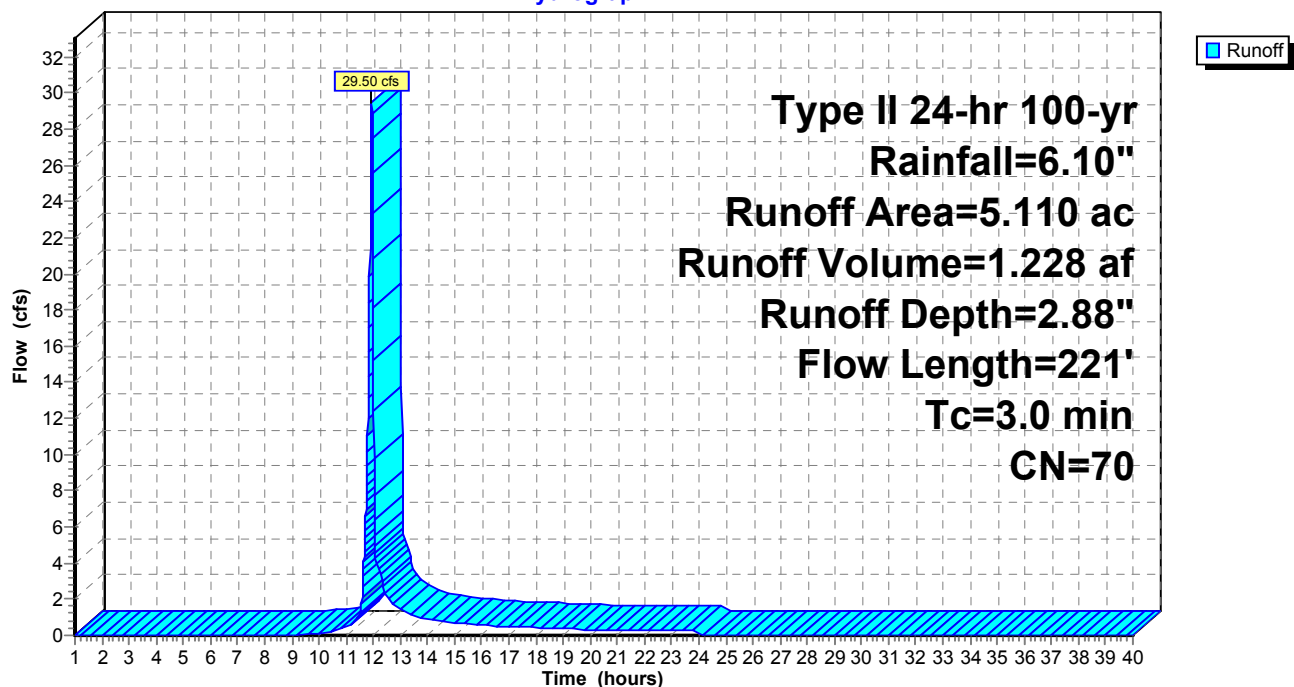
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.110	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	221	0.1800	1.2		Lag/CN Method,

Subcatchment W42: W42

Hydrograph



Subcatchment W43: W43

Runoff = 26.31 cfs @ 12.03 hrs, Volume= 1.473 af, Depth= 2.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

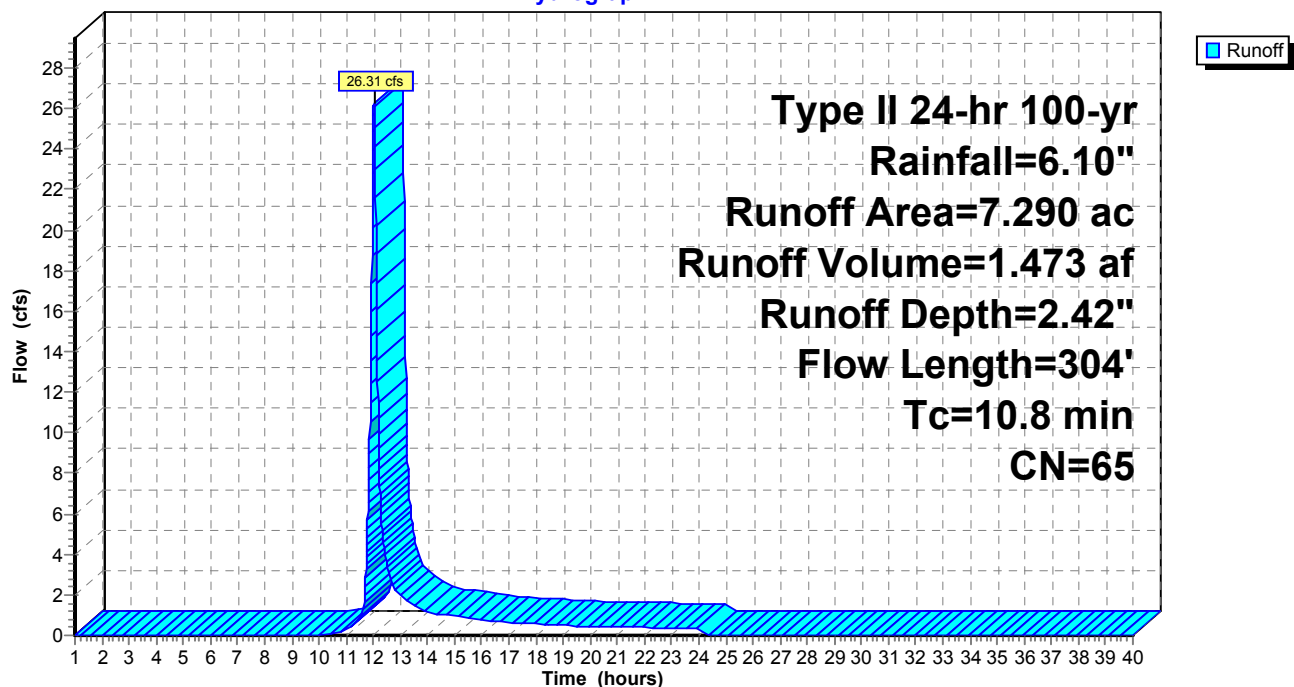
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.290	65	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	304	0.0300	0.5		Lag/CN Method,

Subcatchment W43: W43

Hydrograph



Subcatchment W44: W44

Runoff = 22.89 cfs @ 12.11 hrs, Volume= 1.639 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

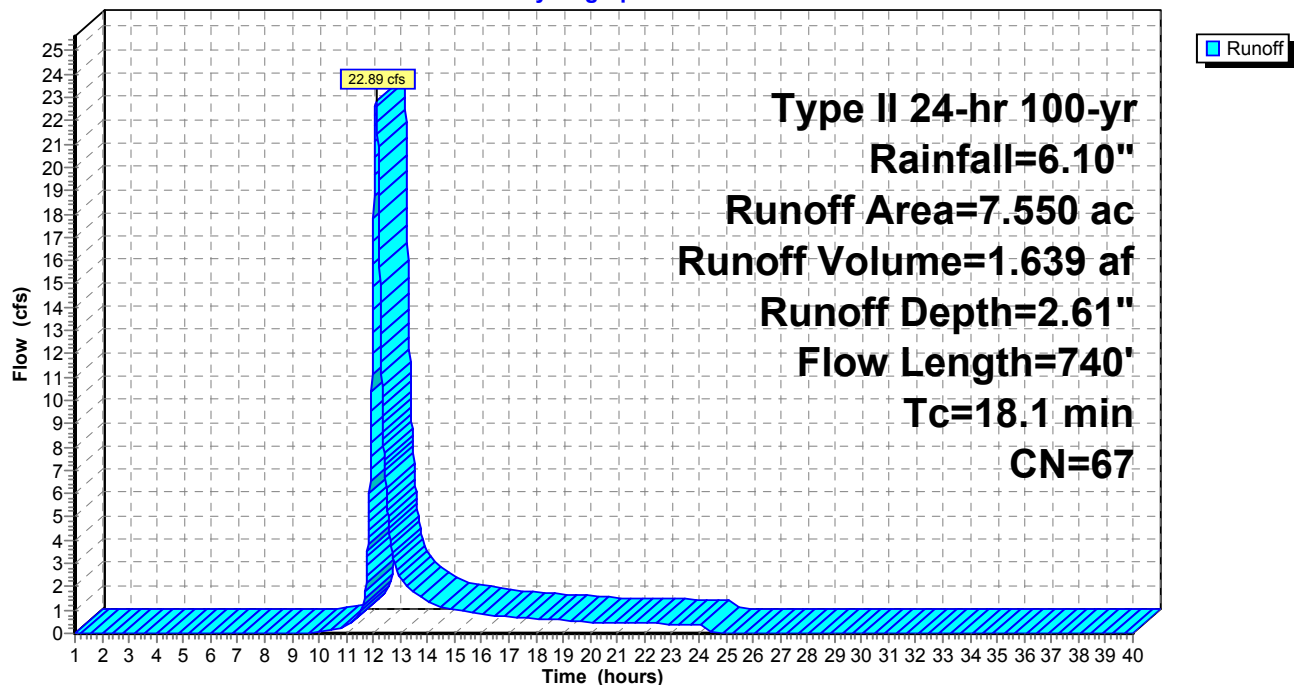
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.550	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.1	740	0.0400	0.7		Lag/CN Method,

Subcatchment W44: W44

Hydrograph



Subcatchment W45: W45

Runoff = 38.93 cfs @ 11.97 hrs, Volume= 1.772 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

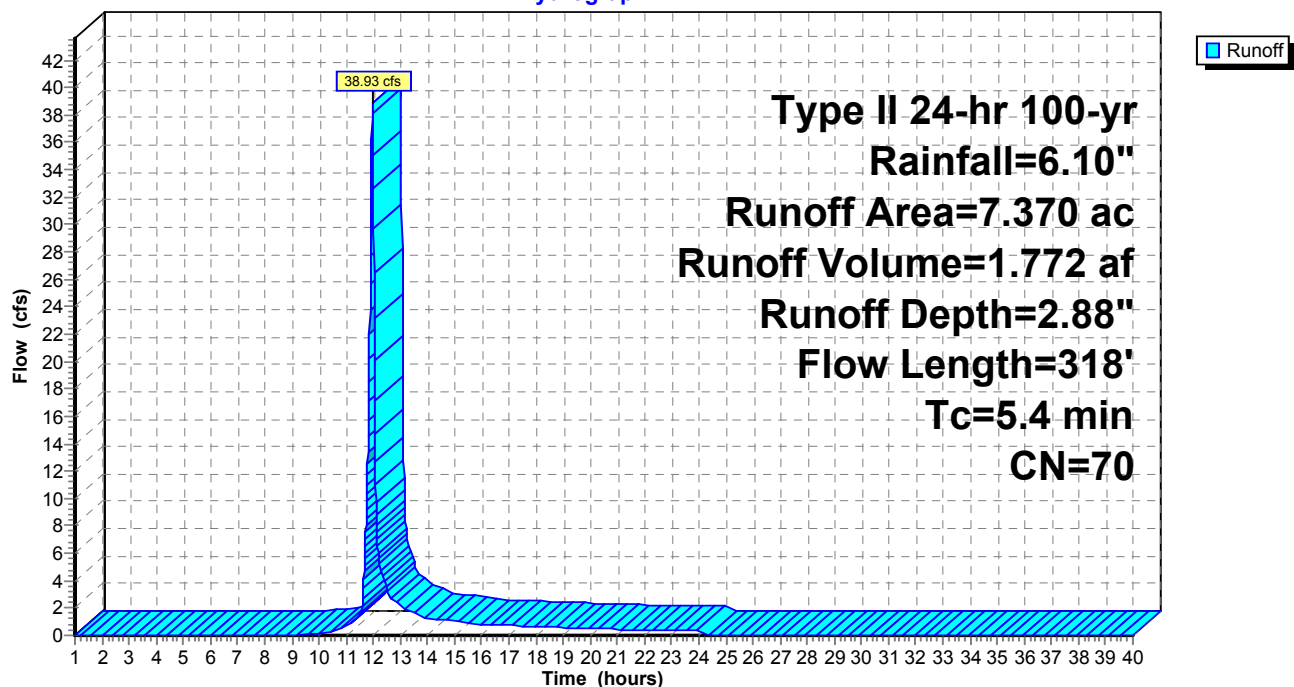
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.370	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.4	318	0.1000	1.0		Lag/CN Method,

Subcatchment W45: W45

Hydrograph



Subcatchment W46: W46

Runoff = 48.40 cfs @ 12.14 hrs, Volume= 3.703 af, Depth= 3.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

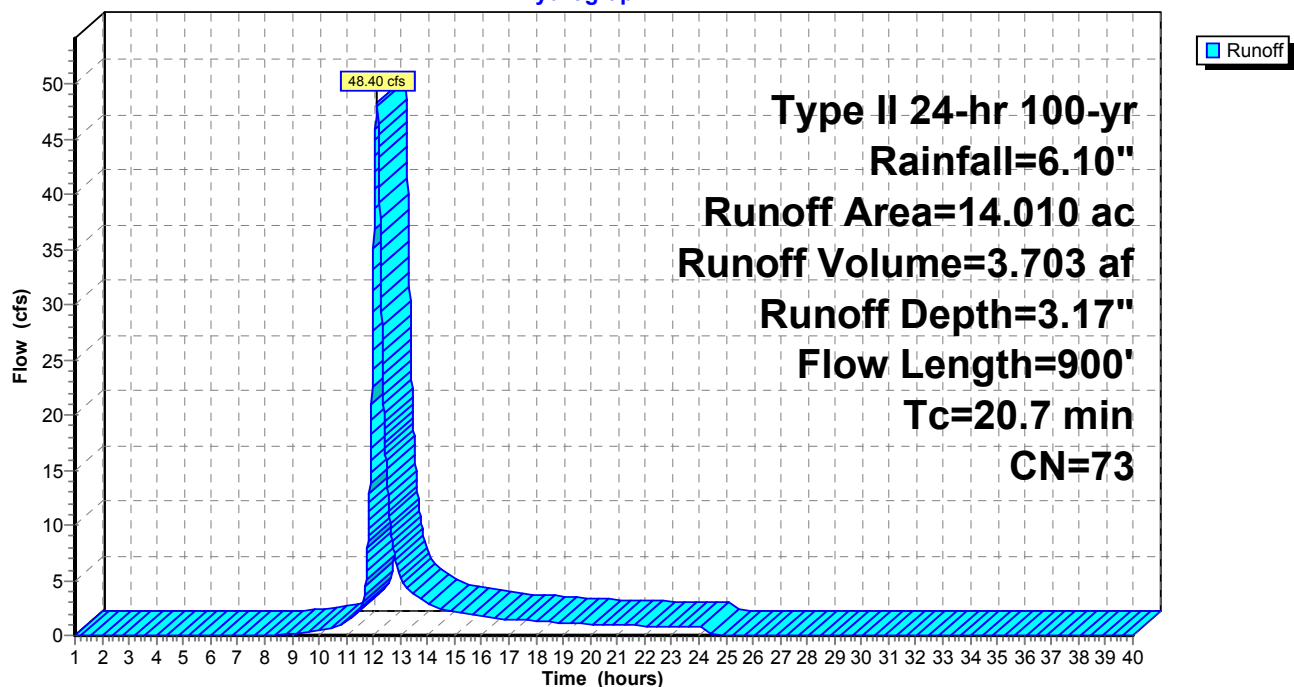
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
14.010	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.7	900	0.0300	0.7		Lag/CN Method,

Subcatchment W46: W46

Hydrograph



Subcatchment W47: W47

Runoff = 19.26 cfs @ 12.15 hrs, Volume= 1.499 af, Depth= 3.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

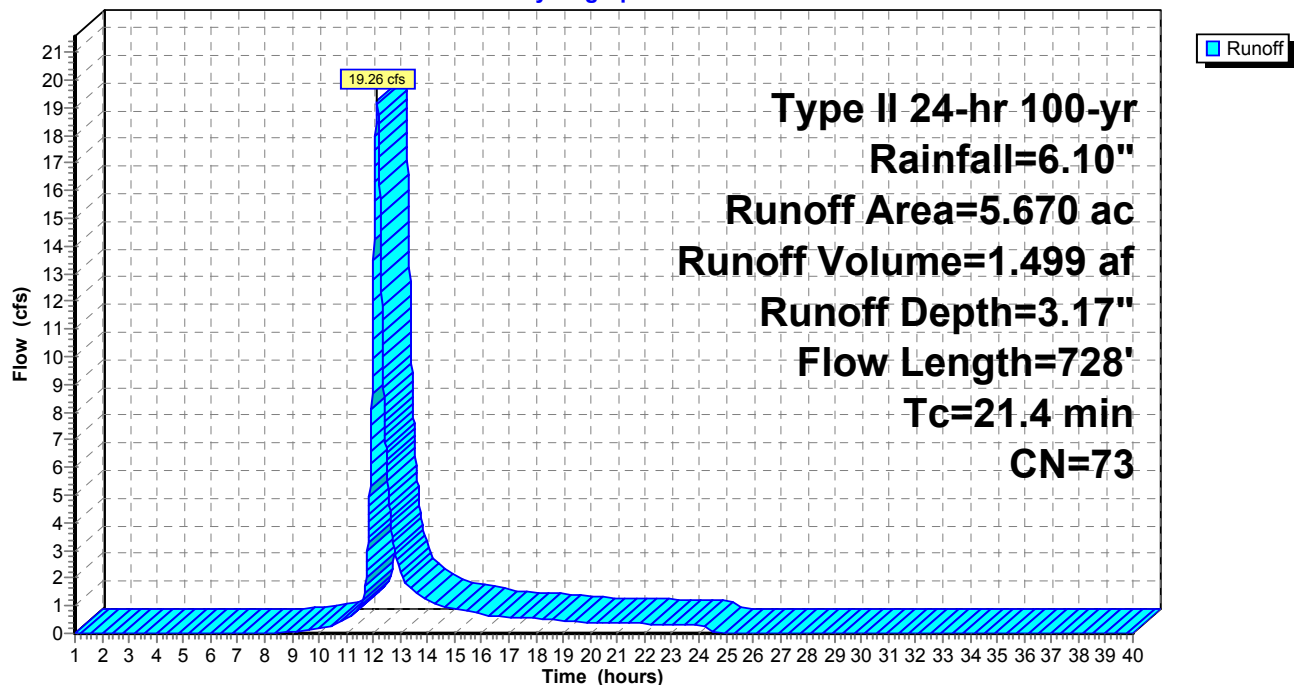
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.670	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.4	728	0.0200	0.6		Lag/CN Method,

Subcatchment W47: W47

Hydrograph



Subcatchment W48: W48

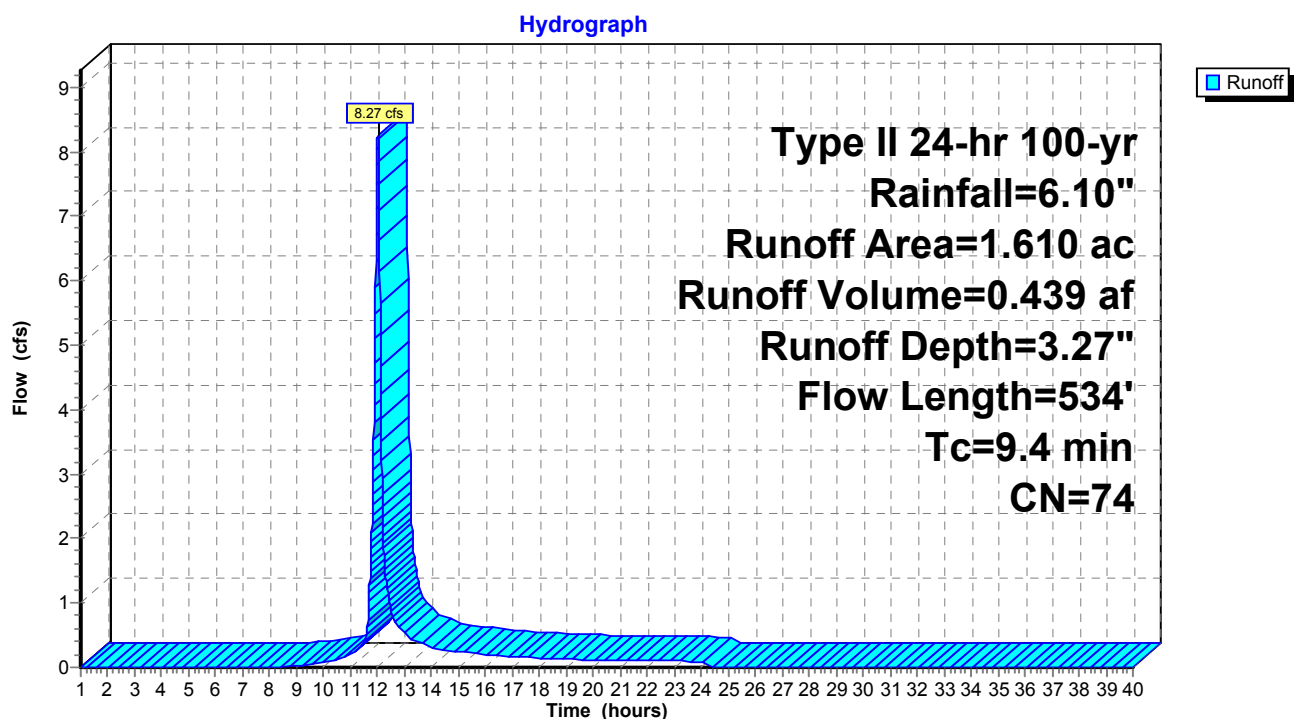
Runoff = 8.27 cfs @ 12.01 hrs, Volume= 0.439 af, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
1.610	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	534	0.0600	0.9		Lag/CN Method,

Subcatchment W48: W48

Subcatchment W49: W49

Runoff = 55.12 cfs @ 11.98 hrs, Volume= 2.756 af, Depth= 3.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

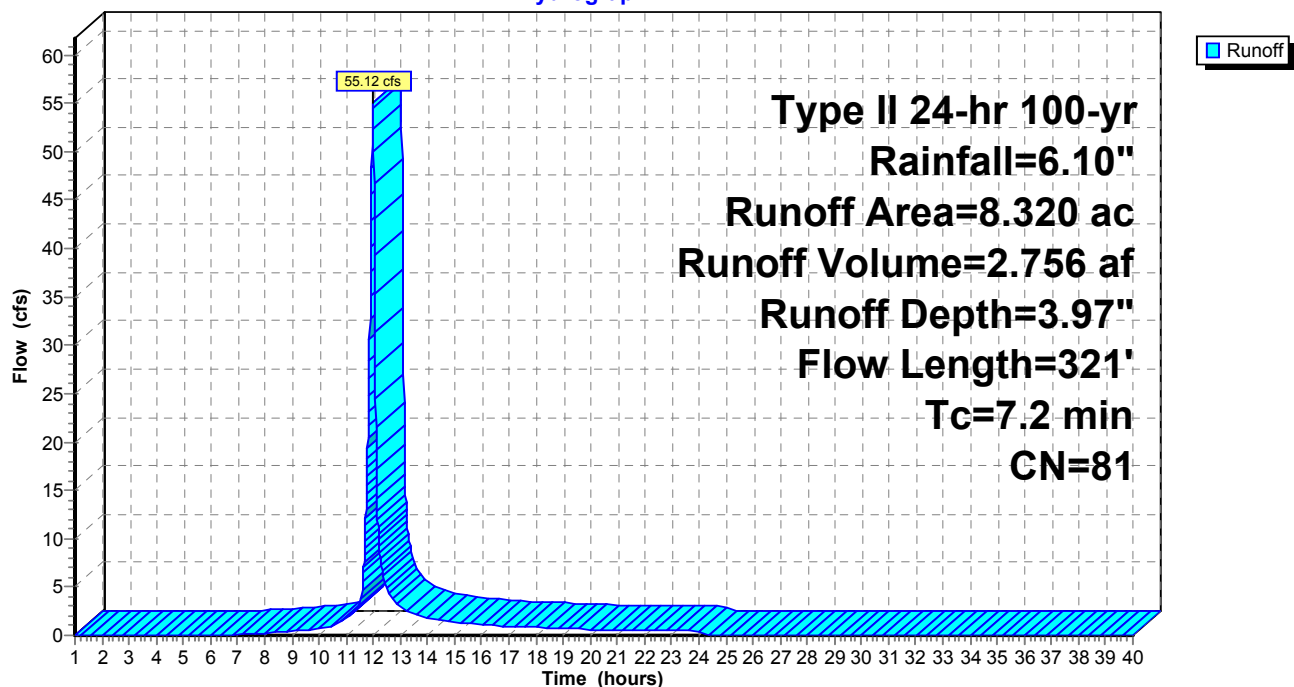
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.320	81	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	321	0.0300	0.7		Lag/CN Method,

Subcatchment W49: W49

Hydrograph



Subcatchment W50: W50

Runoff = 62.76 cfs @ 12.23 hrs, Volume= 6.177 af, Depth= 4.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

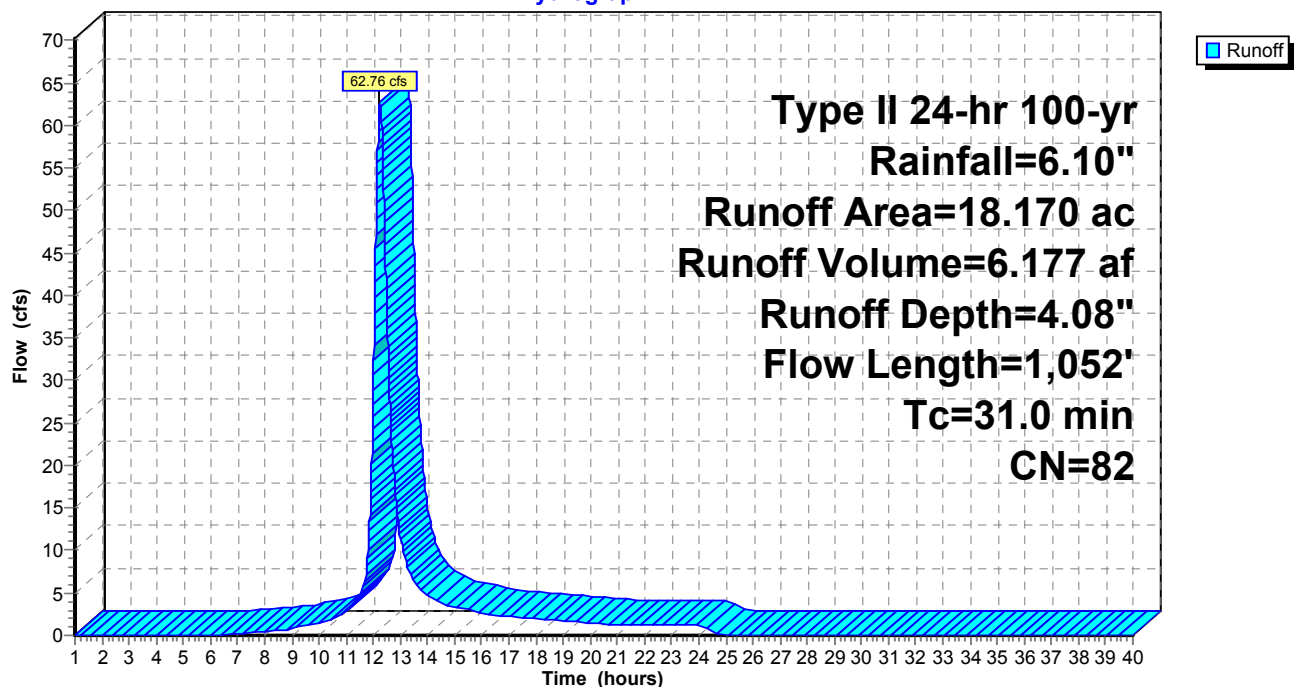
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.170	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	1,052	0.0100	0.6		Lag/CN Method,

Subcatchment W50: W50

Hydrograph



Subcatchment W51: W51

Runoff = 32.84 cfs @ 12.04 hrs, Volume= 1.888 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

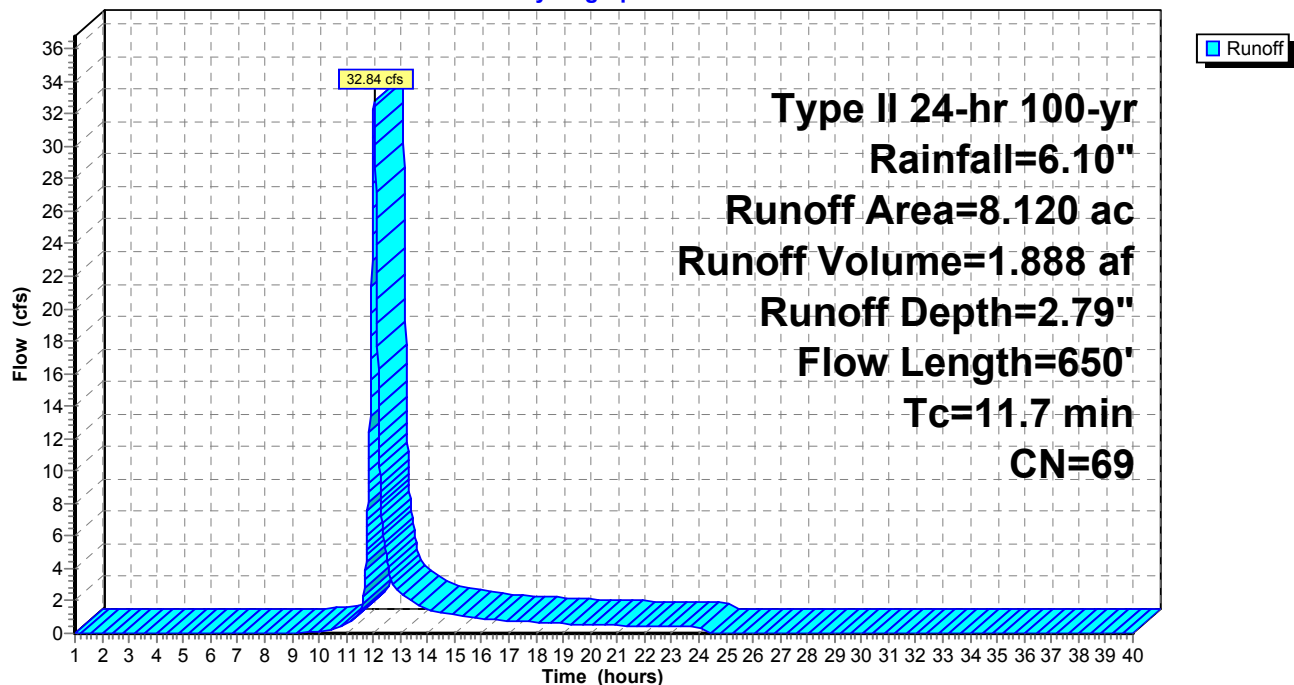
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.120	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	650	0.0700	0.9		Lag/CN Method,

Subcatchment W51: W51

Hydrograph



Subcatchment W52: W52

Runoff = 32.83 cfs @ 12.00 hrs, Volume= 1.687 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

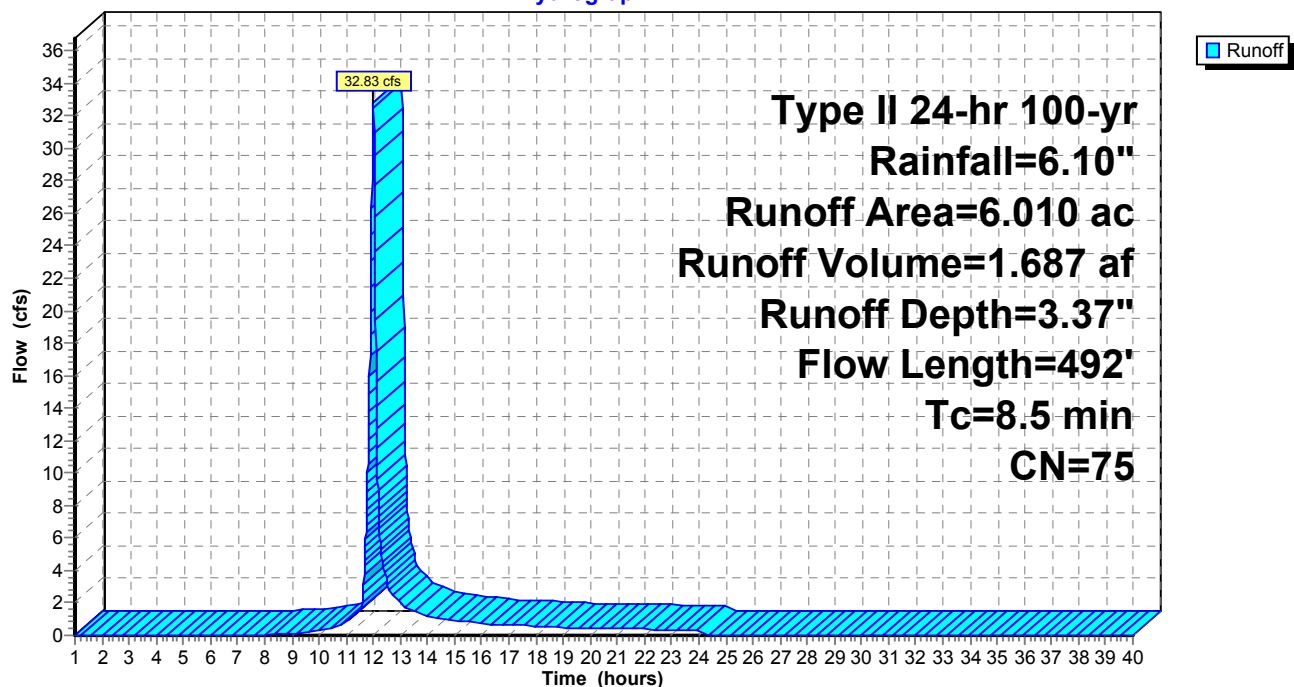
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
6.010	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	492	0.0600	1.0		Lag/CN Method,

Subcatchment W52: W52

Hydrograph



Subcatchment W53: W53

Runoff = 35.21 cfs @ 12.20 hrs, Volume= 3.132 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

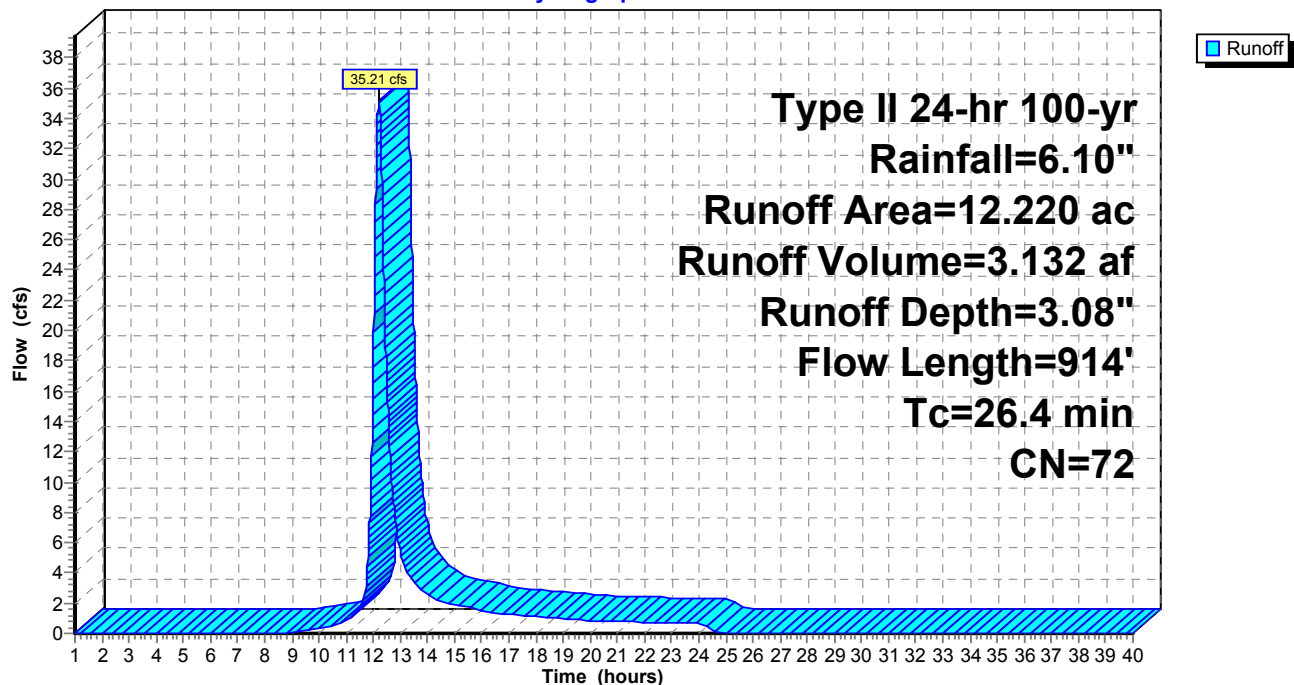
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
12.220	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	914	0.0200	0.6		Lag/CN Method,

Subcatchment W53: W53

Hydrograph



Subcatchment W54: W54

Runoff = 41.11 cfs @ 12.03 hrs, Volume= 2.307 af, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

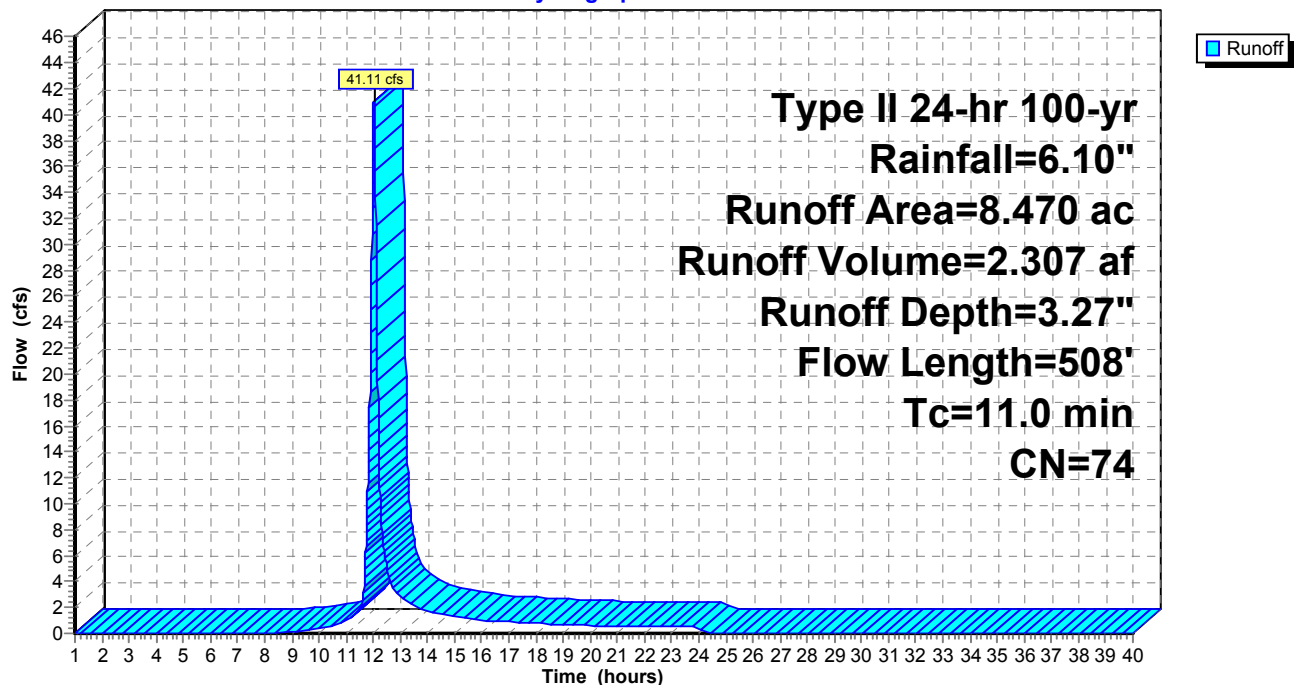
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.470	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	508	0.0400	0.8		Lag/CN Method,

Subcatchment W54: W54

Hydrograph



Subcatchment W55: W55

Runoff = 9.53 cfs @ 12.00 hrs, Volume= 0.483 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

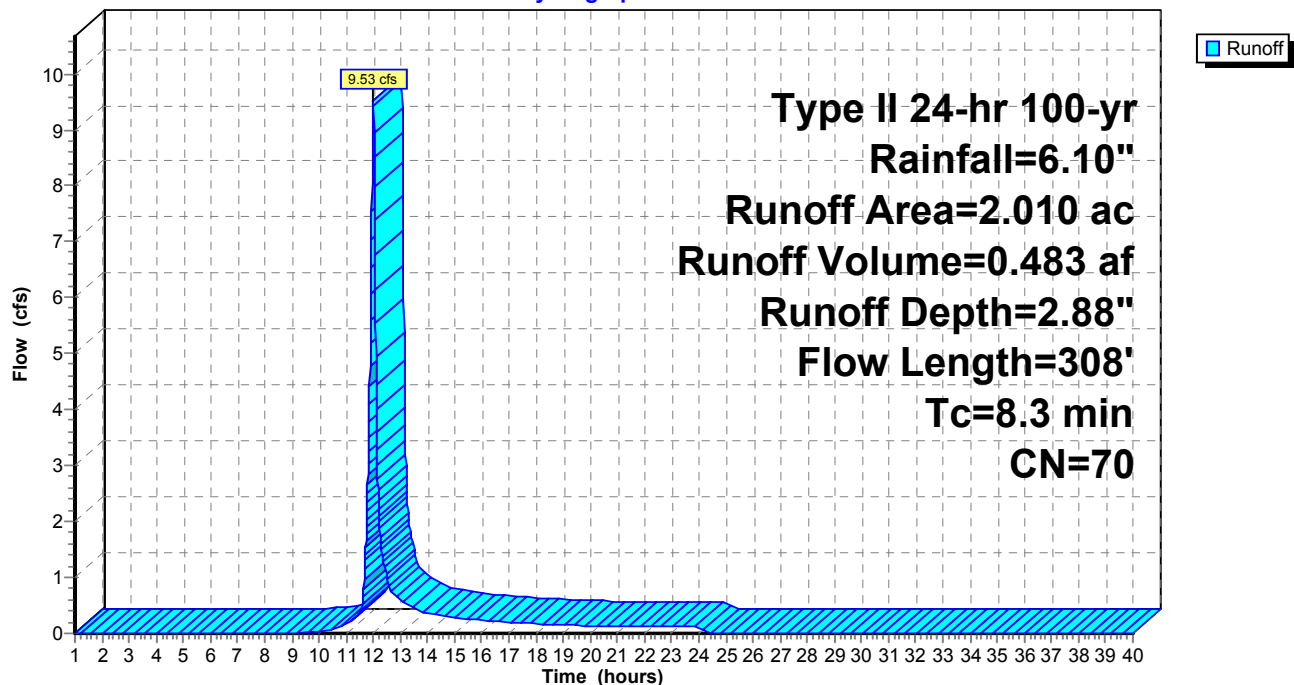
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
2.010	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	308	0.0400	0.6		Lag/CN Method,

Subcatchment W55: W55

Hydrograph



Subcatchment W56: W56

Runoff = 31.21 cfs @ 11.96 hrs, Volume= 1.396 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

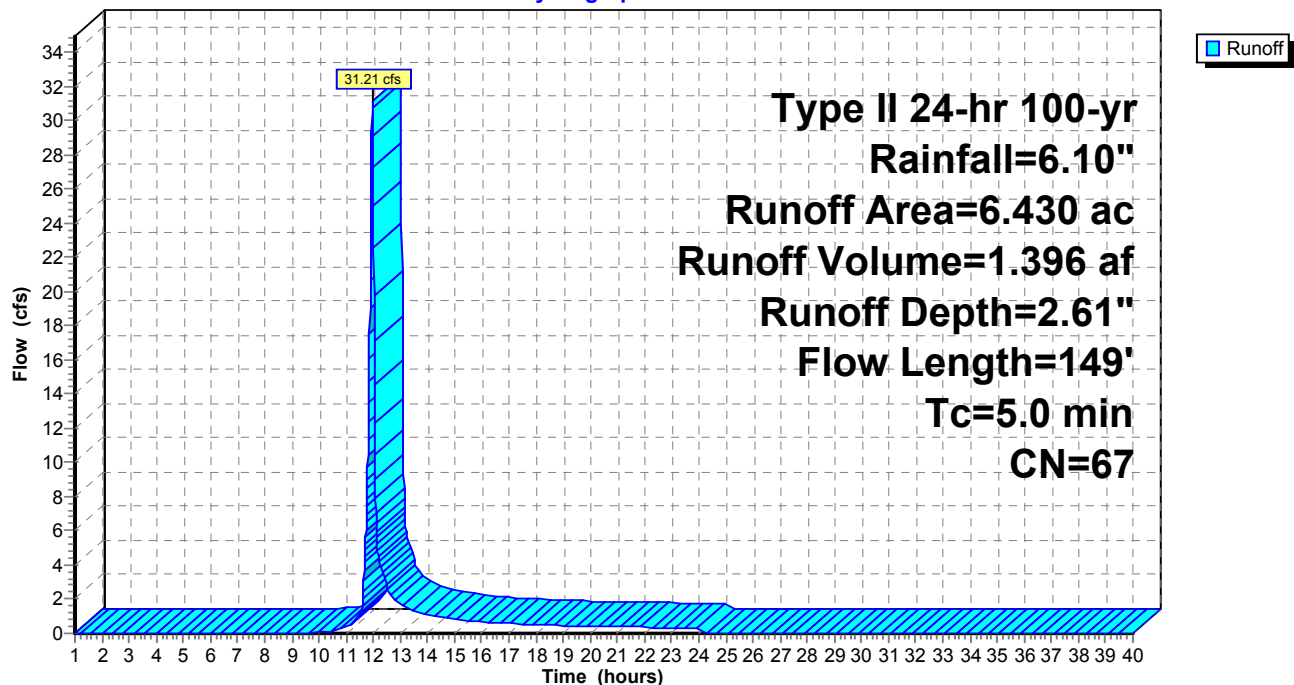
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
6.430	67	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	149	0.0400	0.5		Lag/CN Method,

Subcatchment W56: W56

Hydrograph



Subcatchment W57: W57

Runoff = 50.32 cfs @ 11.98 hrs, Volume= 2.356 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

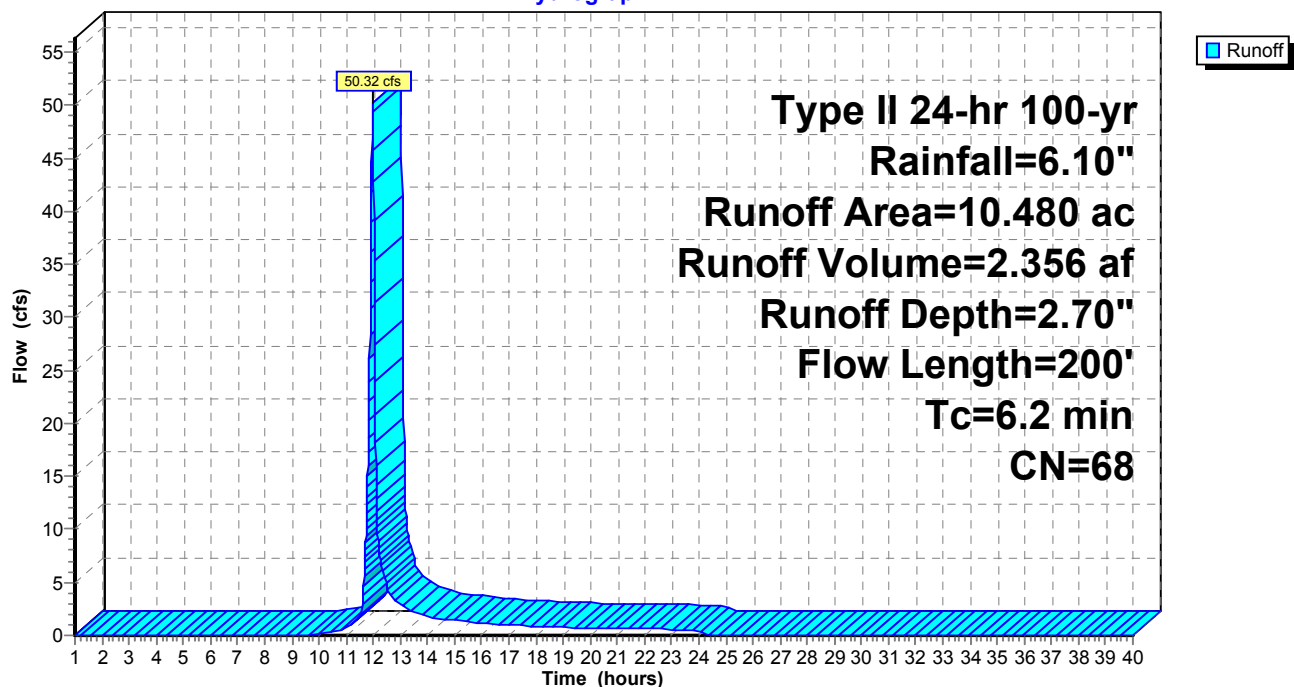
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
10.480	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	200	0.0400	0.5		Lag/CN Method,

Subcatchment W57: W57

Hydrograph



Subcatchment W58: W58

Runoff = 237.67 cfs @ 12.01 hrs, Volume= 12.280 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

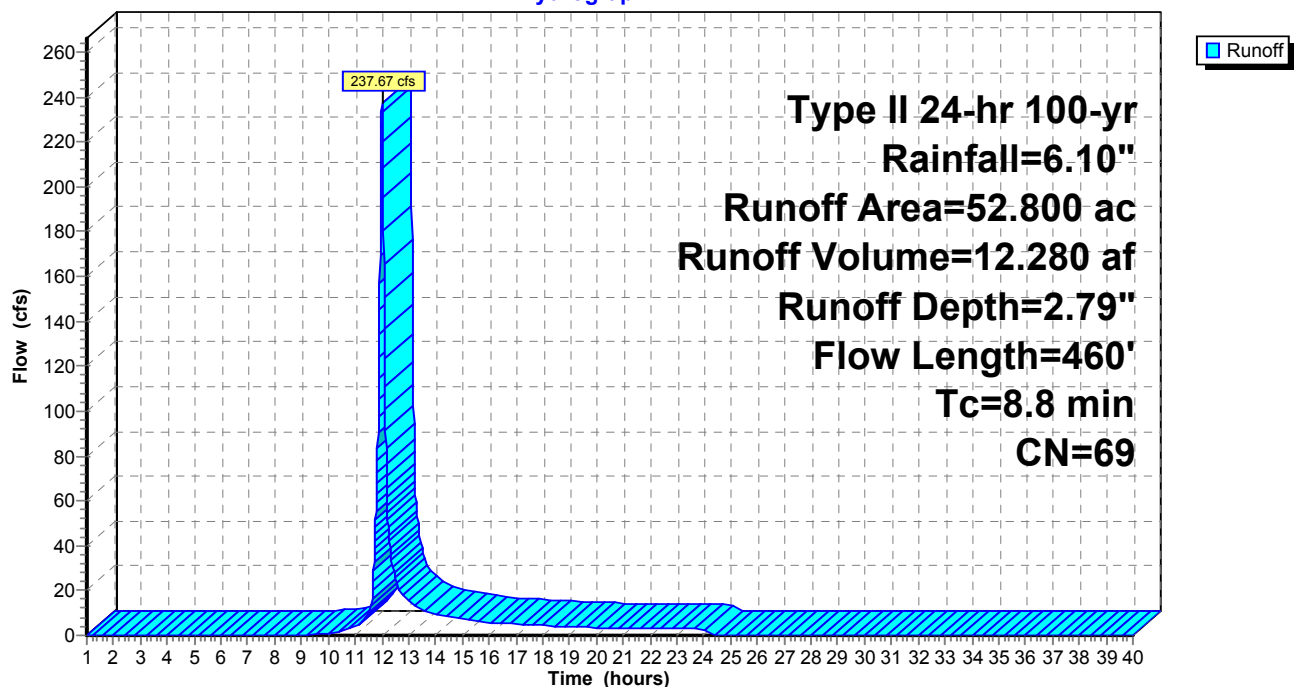
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
52.800	69	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	460	0.0700	0.9		Lag/CN Method,

Subcatchment W58: W58

Hydrograph



Subcatchment W59: W59

Runoff = 97.26 cfs @ 11.98 hrs, Volume= 4.952 af, Depth= 4.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

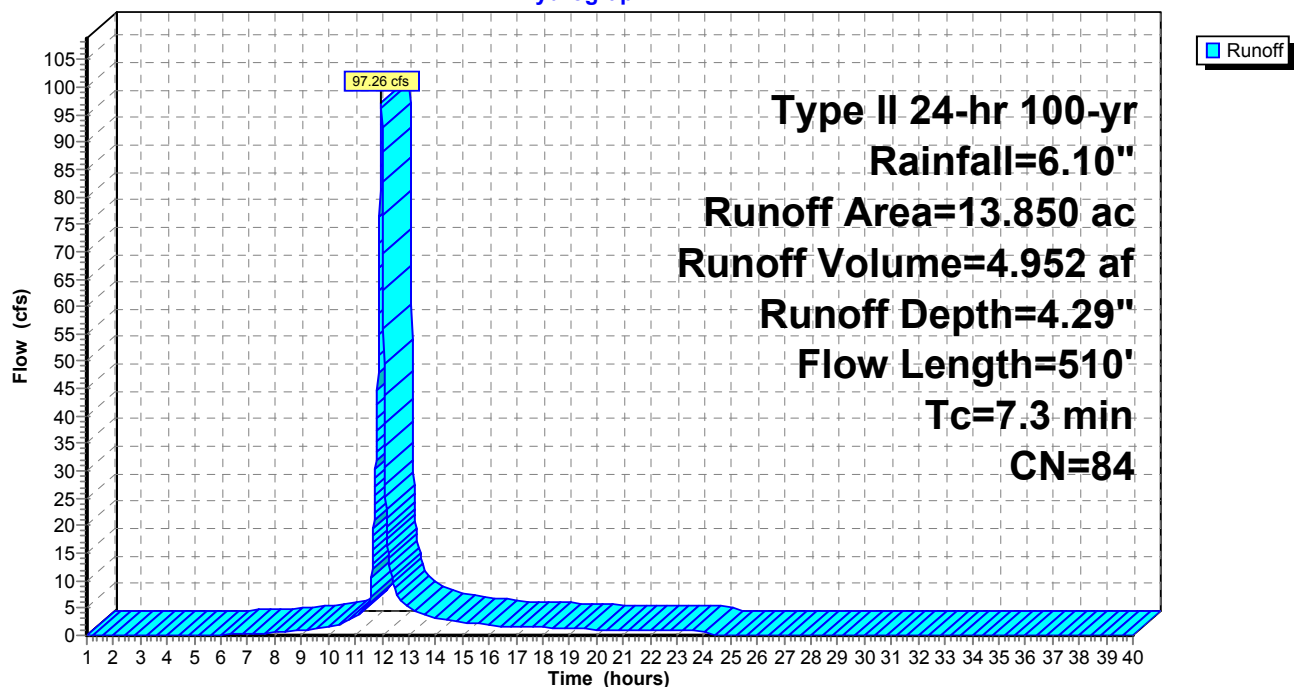
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
13.850	84	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	510	0.0500	1.2		Lag/CN Method,

Subcatchment W59: W59

Hydrograph



Subcatchment W60: W60

Runoff = 16.33 cfs @ 12.02 hrs, Volume= 0.921 af, Depth= 4.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

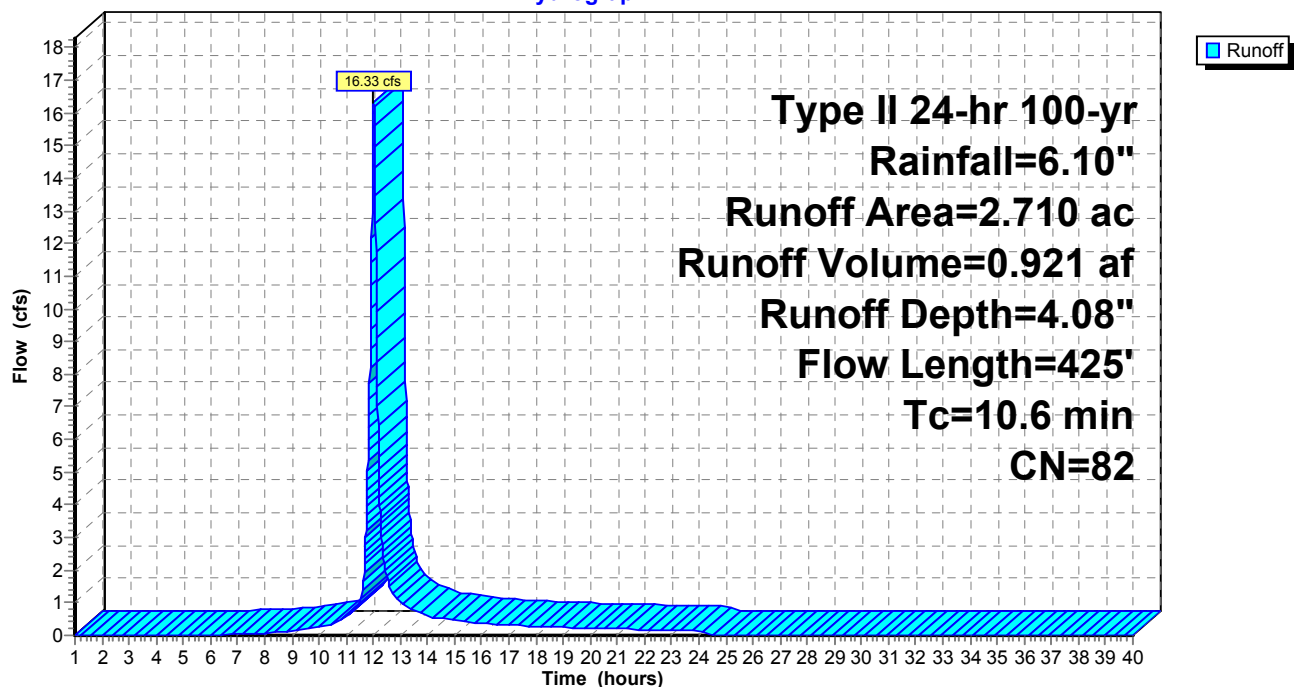
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
2.710	82	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	425	0.0200	0.7		Lag/CN Method,

Subcatchment W60: W60

Hydrograph



Subcatchment W61: W61

Runoff = 38.40 cfs @ 12.09 hrs, Volume= 2.615 af, Depth= 3.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

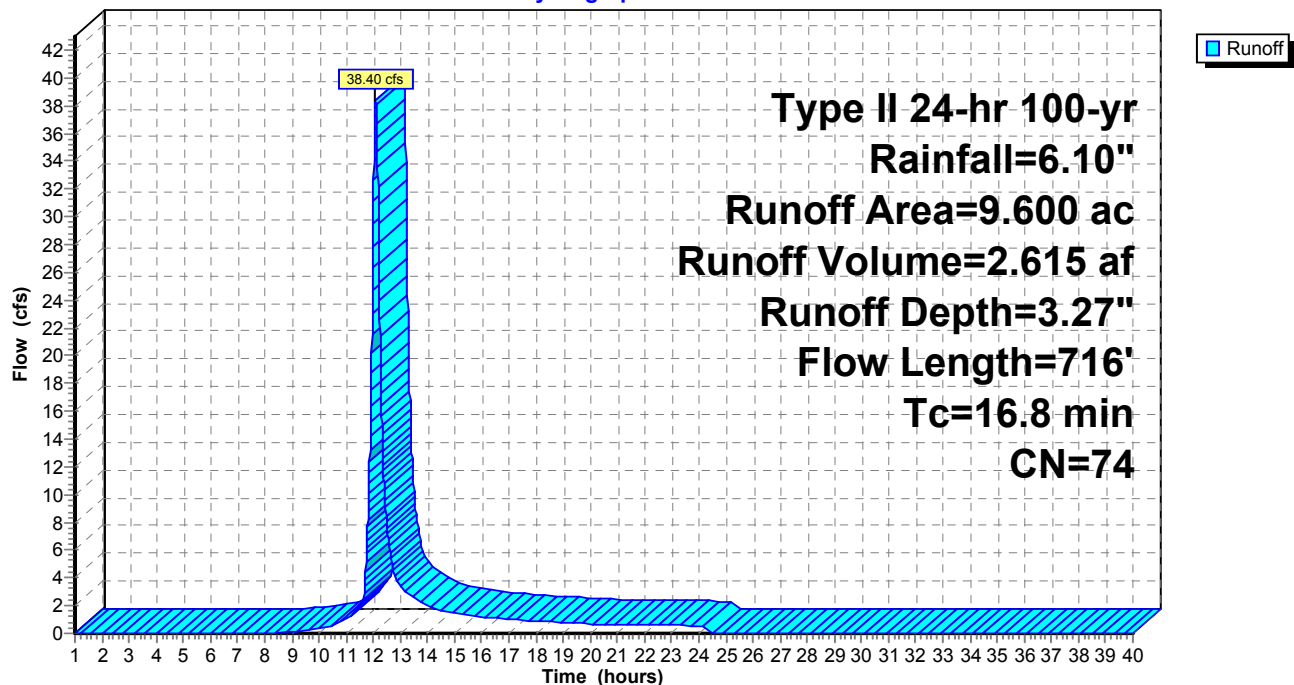
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.600	74	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	716	0.0300	0.7		Lag/CN Method,

Subcatchment W61: W61

Hydrograph



Subcatchment W62: W62

Runoff = 33.92 cfs @ 12.11 hrs, Volume= 2.427 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

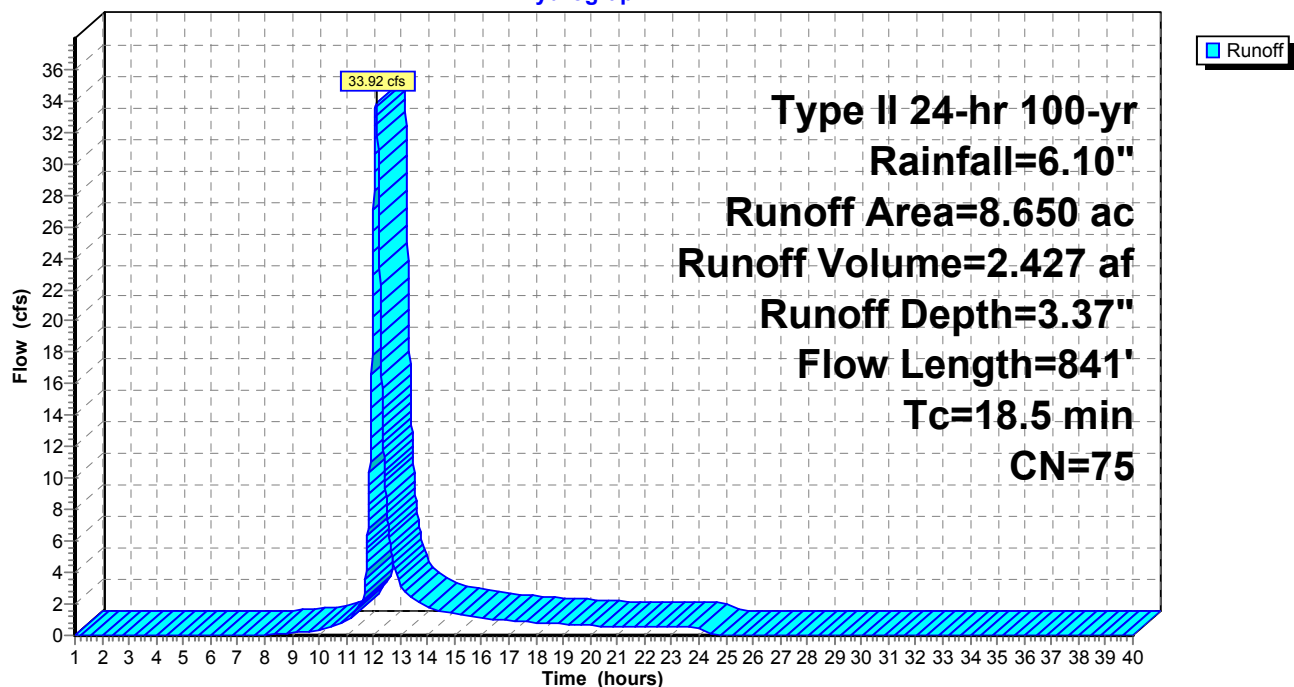
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.650	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.5	841	0.0300	0.8		Lag/CN Method,

Subcatchment W62: W62

Hydrograph



Subcatchment W63: W63

Runoff = 26.50 cfs @ 11.94 hrs, Volume= 1.112 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

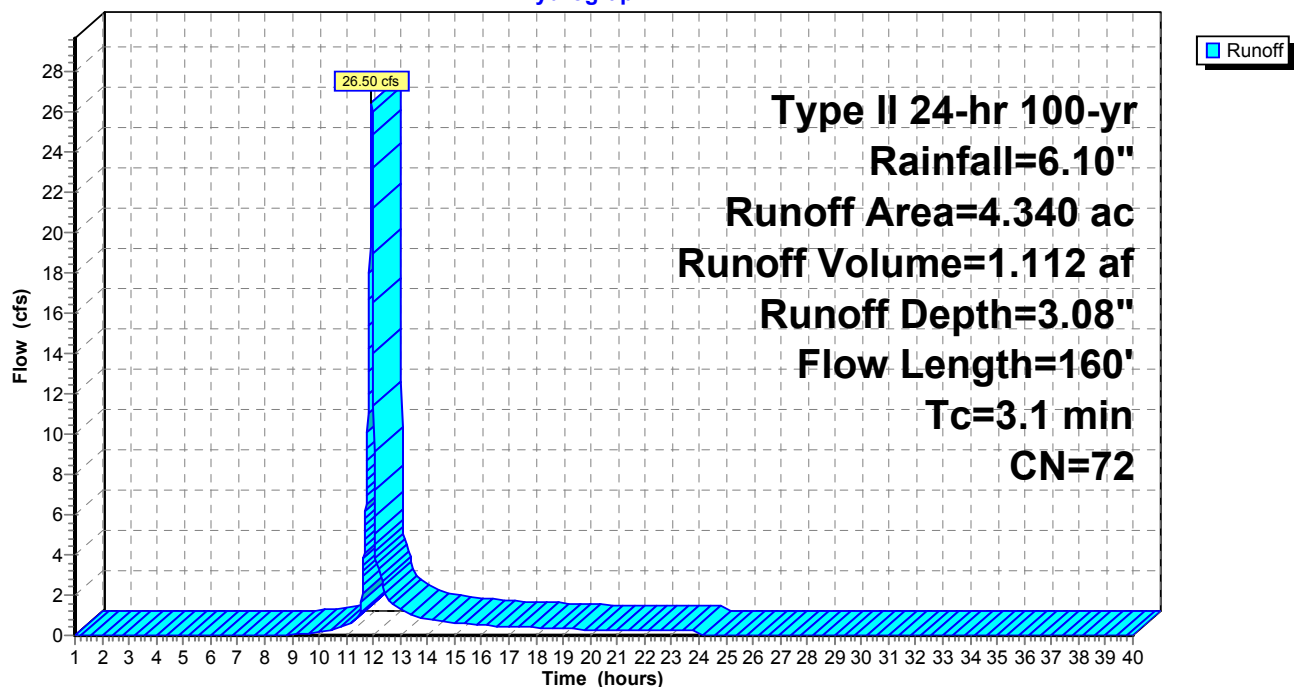
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
4.340	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	160	0.0900	0.9		Lag/CN Method,

Subcatchment W63: W63

Hydrograph



Subcatchment W64: W64

Runoff = 54.34 cfs @ 12.13 hrs, Volume= 4.270 af, Depth= 4.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

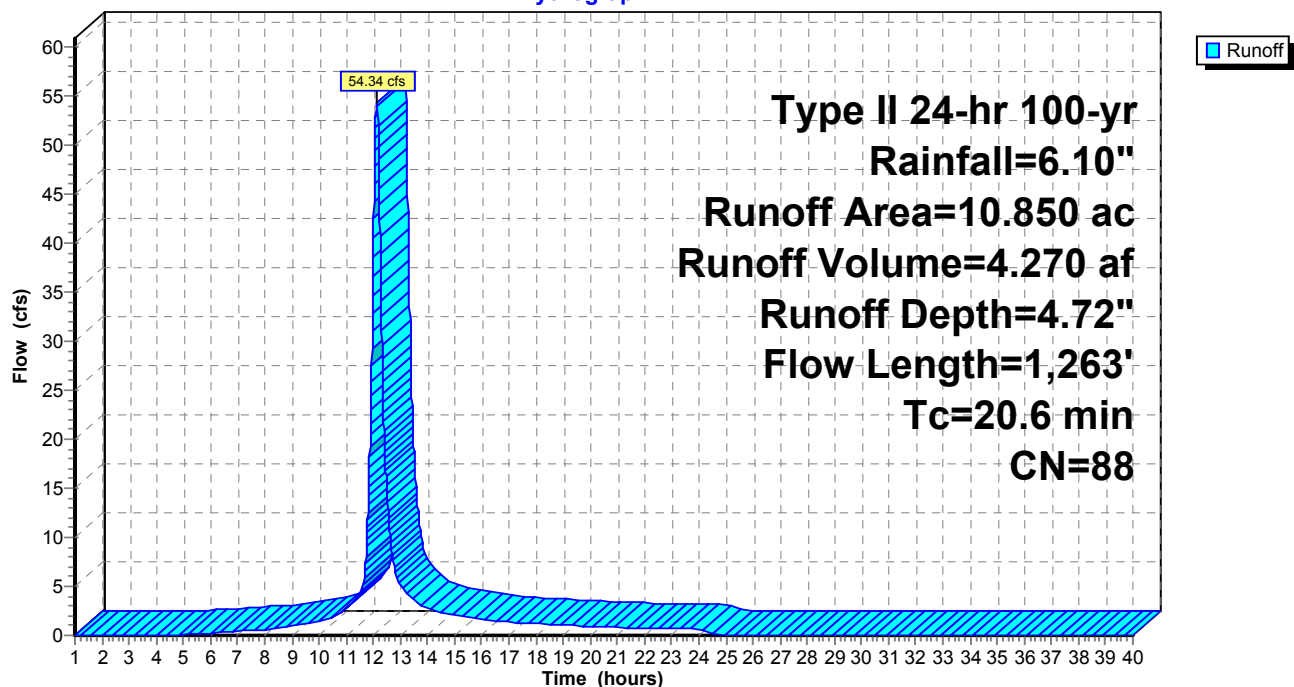
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
10.850	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,263	0.0200	1.0		Lag/CN Method,

Subcatchment W64: W64

Hydrograph



Subcatchment W65: W65

Runoff = 77.07 cfs @ 12.19 hrs, Volume= 6.589 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

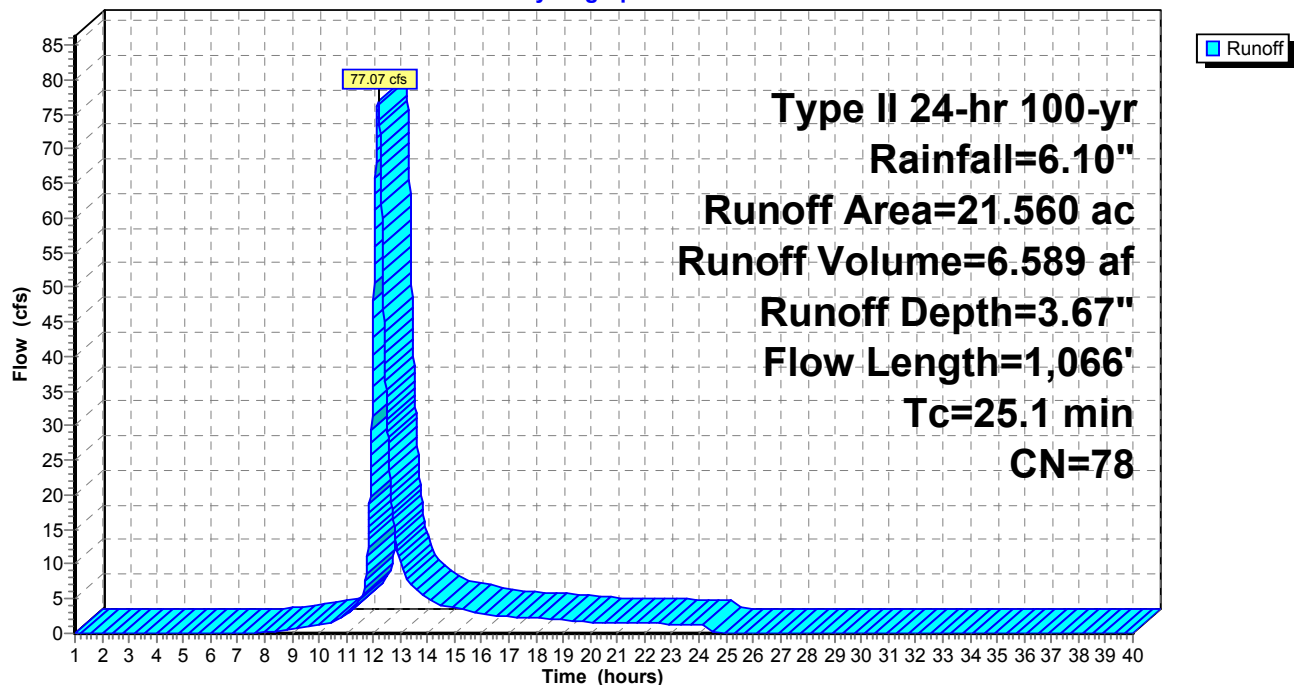
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
21.560	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	1,066	0.0200	0.7		Lag/CN Method,

Subcatchment W65: W65

Hydrograph



Subcatchment W66: W66

Runoff = 146.54 cfs @ 11.98 hrs, Volume= 7.121 af, Depth= 3.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

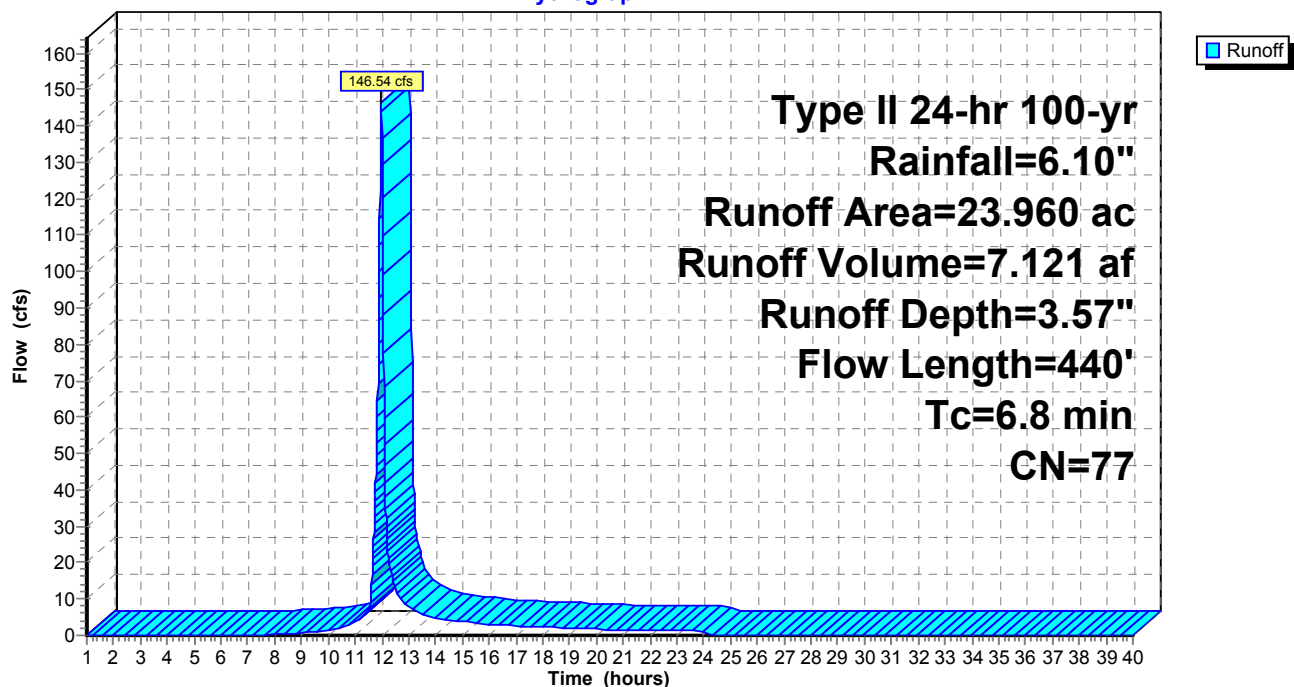
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
23.960	77	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	440	0.0700	1.1		Lag/CN Method,

Subcatchment W66: W66

Hydrograph



Subcatchment W67: W67

Runoff = 137.25 cfs @ 12.30 hrs, Volume= 14.757 af, Depth= 4.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

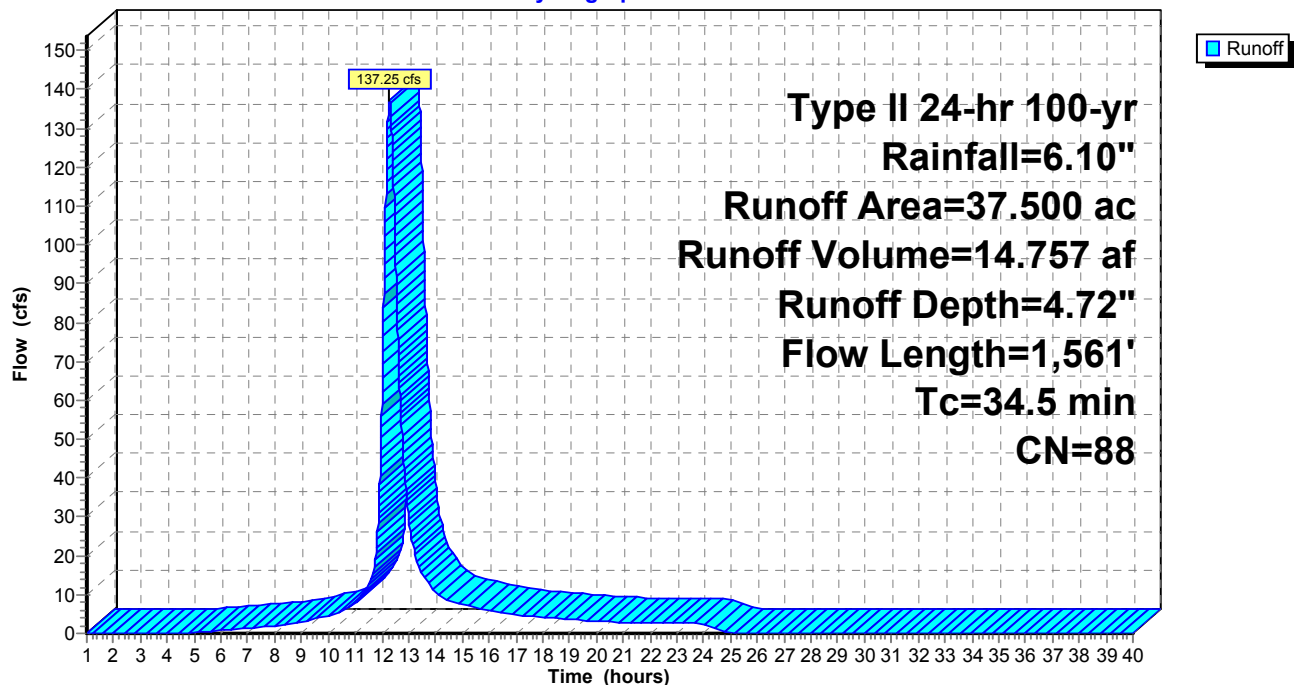
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
37.500	88	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.5	1,561	0.0100	0.8		Lag/CN Method,

Subcatchment W67: W67

Hydrograph



Subcatchment W68: W68

Runoff = 246.50 cfs @ 12.08 hrs, Volume= 15.915 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

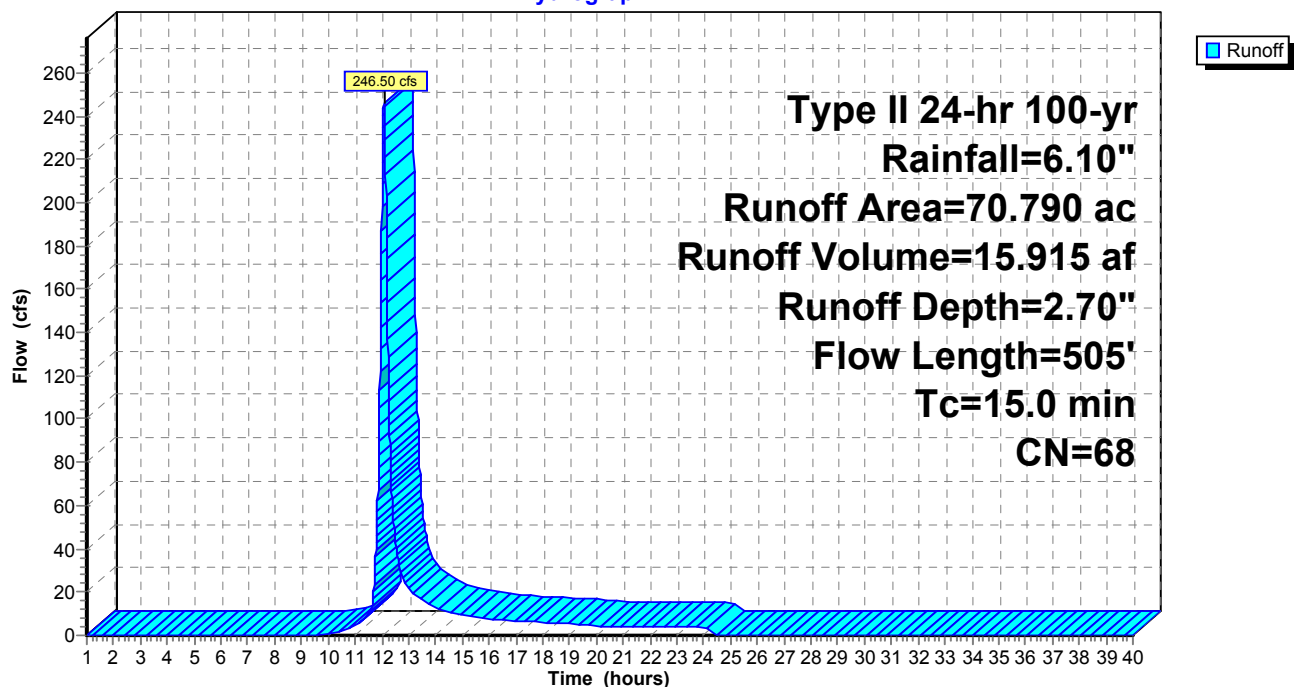
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
70.790	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	505	0.0300	0.6		Lag/CN Method,

Subcatchment W68: W68

Hydrograph



Subcatchment W69: W69

Runoff = 67.45 cfs @ 12.01 hrs, Volume= 3.498 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

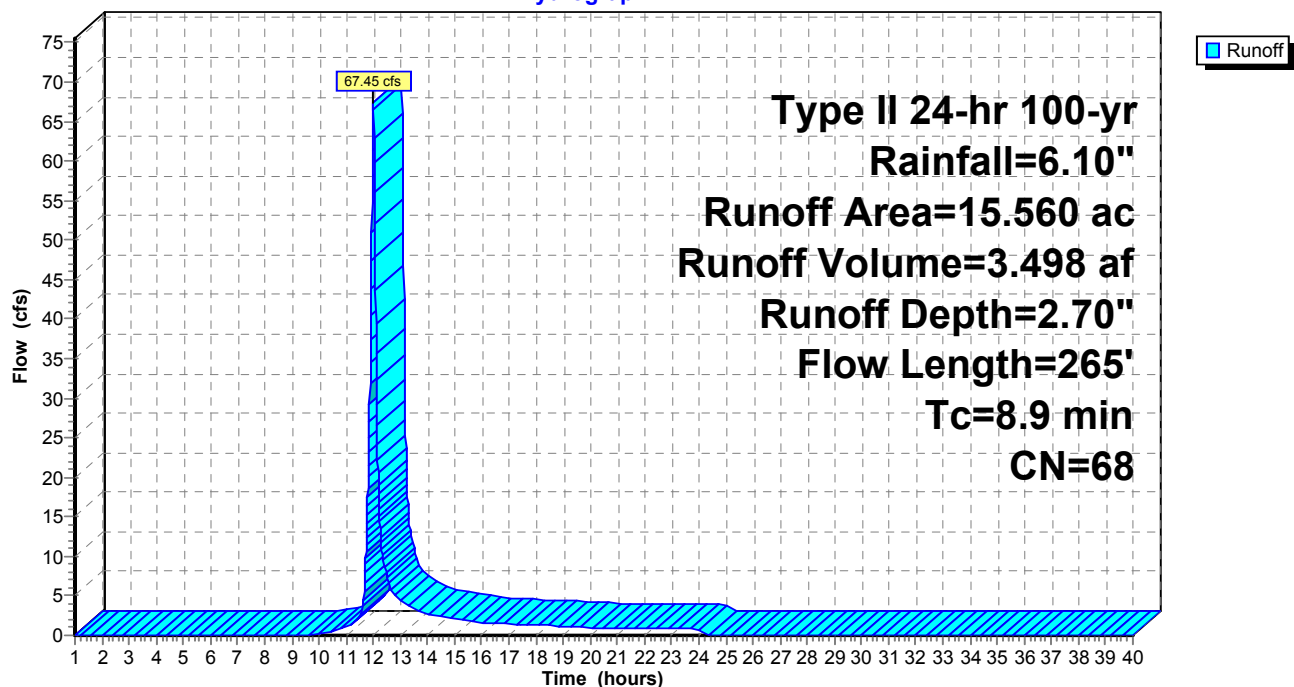
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
15.560	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9	265	0.0300	0.5		Lag/CN Method,

Subcatchment W69: W69

Hydrograph



Subcatchment W70: W70

Runoff = 71.55 cfs @ 14.17 hrs, Volume= 27.090 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

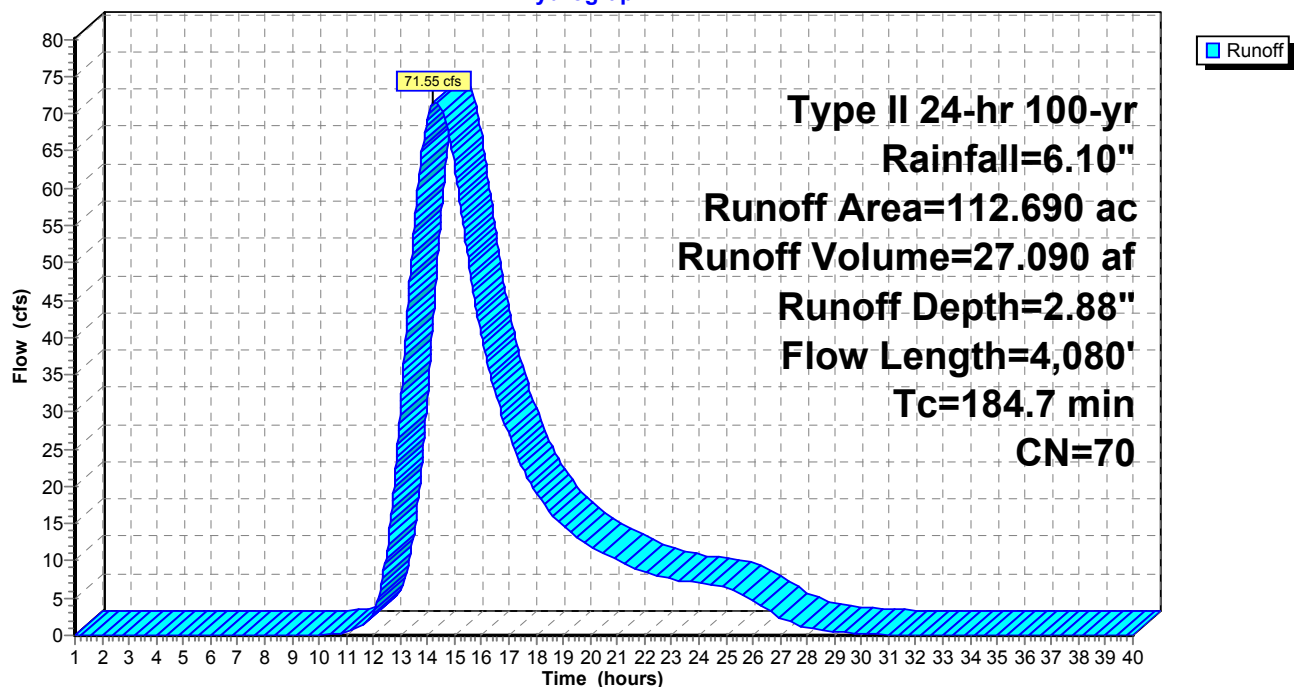
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
112.690	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
184.7	4,080	0.0050	0.4		Lag/CN Method,

Subcatchment W70: W70

Hydrograph



Subcatchment W71: W71

Runoff = 46.25 cfs @ 12.82 hrs, Volume= 8.368 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

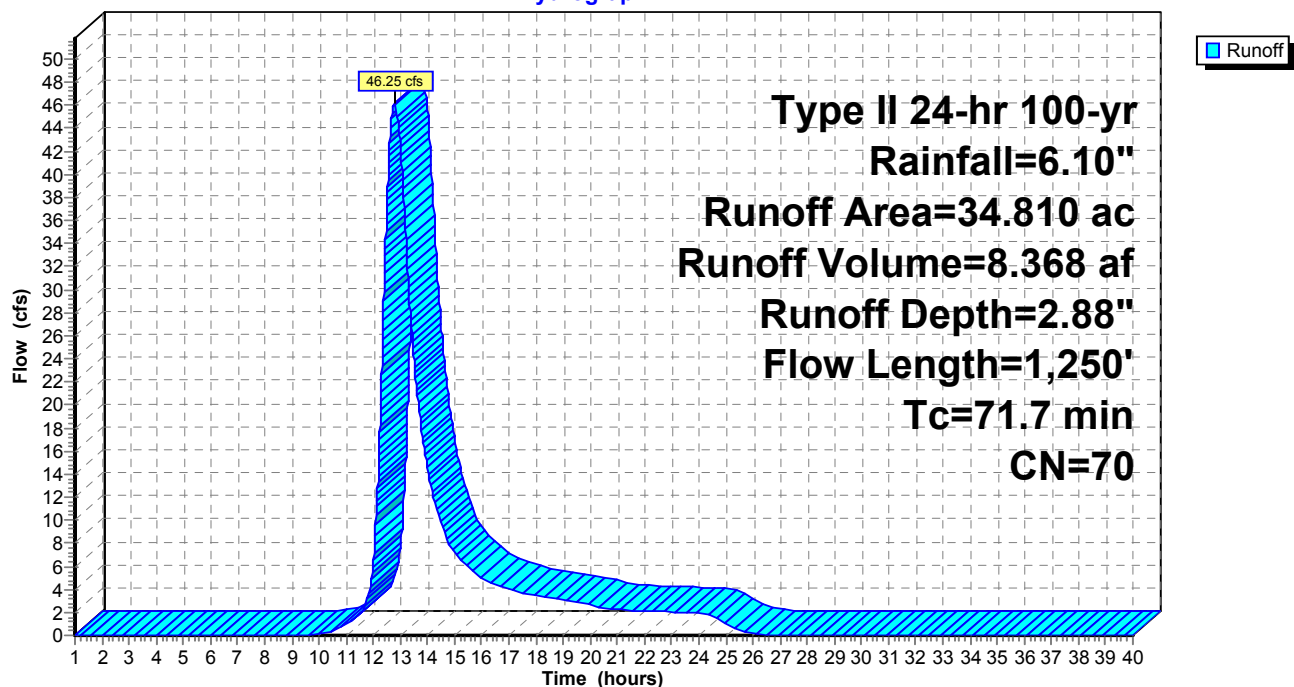
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
34.810	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.7	1,250	0.0050	0.3		Lag/CN Method,

Subcatchment W71: W71

Hydrograph



Subcatchment W72: W72

Runoff = 55.30 cfs @ 12.15 hrs, Volume= 4.392 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

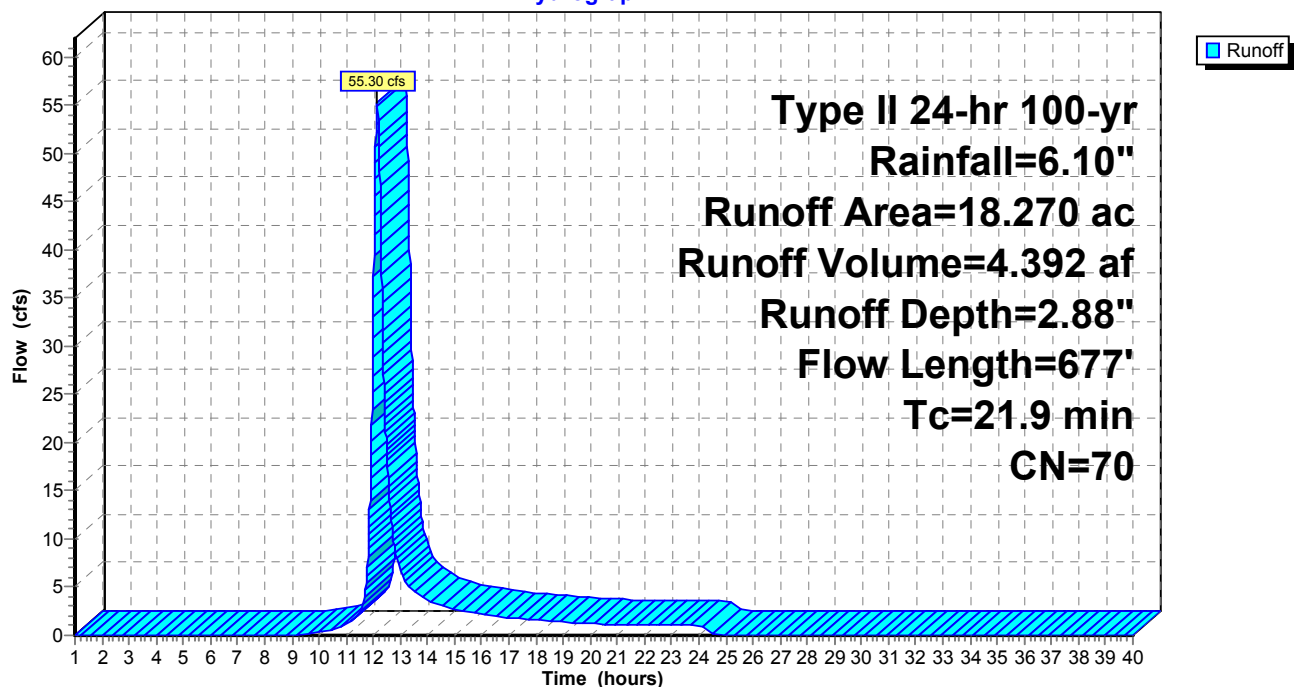
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.270	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	677	0.0200	0.5		Lag/CN Method,

Subcatchment W72: W72

Hydrograph



Subcatchment W73: W73

Runoff = 43.54 cfs @ 12.57 hrs, Volume= 6.754 af, Depth= 2.33"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

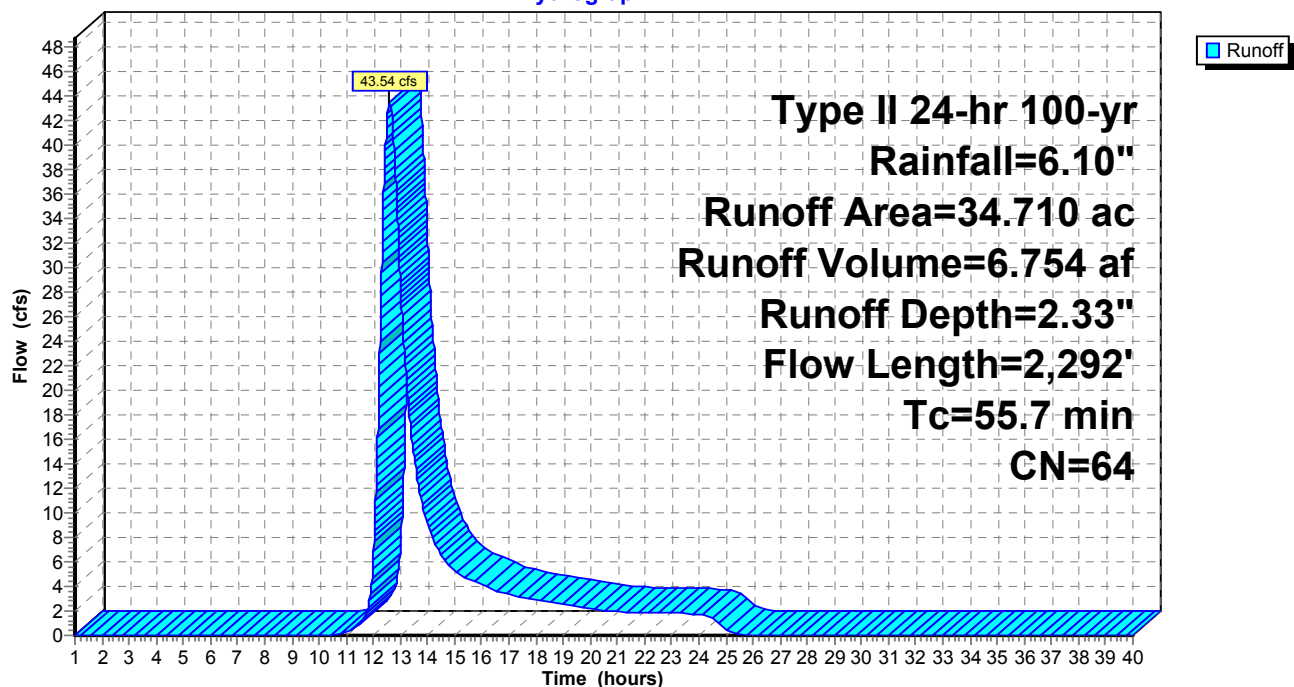
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
34.710	64	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.7	2,292	0.0300	0.7		Lag/CN Method,

Subcatchment W73: W73

Hydrograph



Subcatchment W74: W74

Runoff = 19.04 cfs @ 12.02 hrs, Volume= 1.030 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

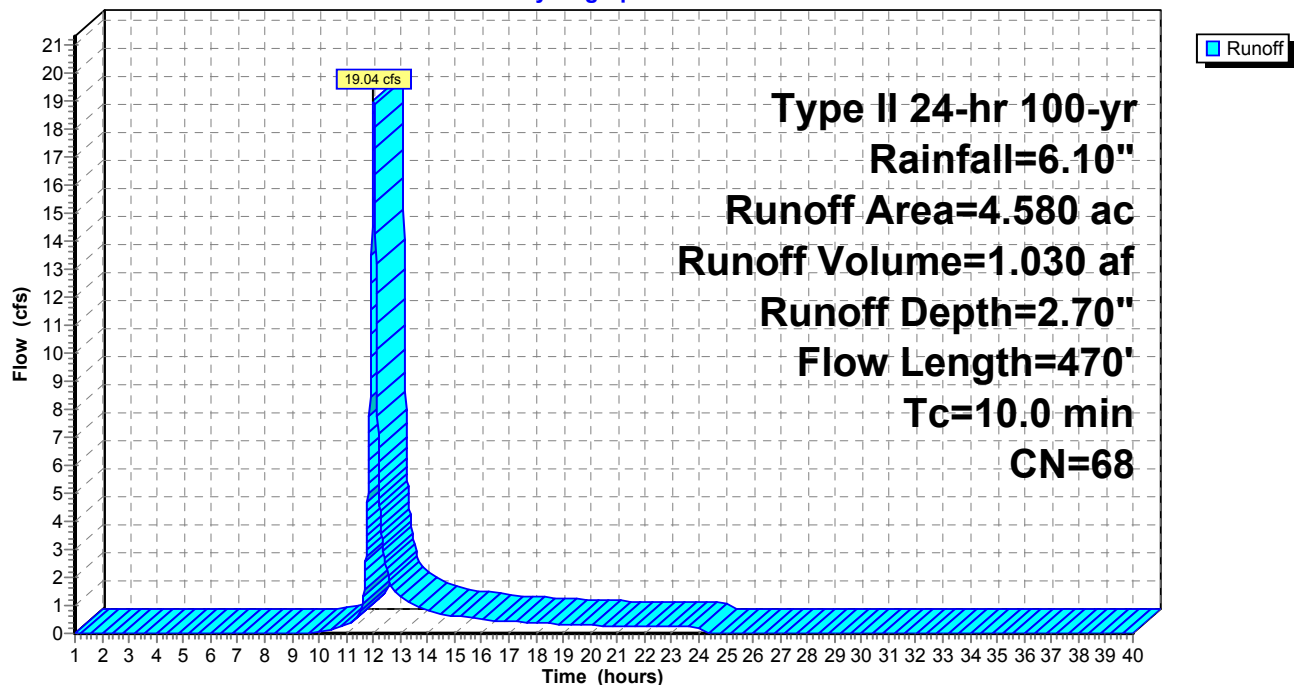
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description			
4.580	68				

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	470	0.0600	0.8		Lag/CN Method,

Subcatchment W74: W74

Hydrograph



Subcatchment W75: W75

Runoff = 169.58 cfs @ 12.09 hrs, Volume= 11.472 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

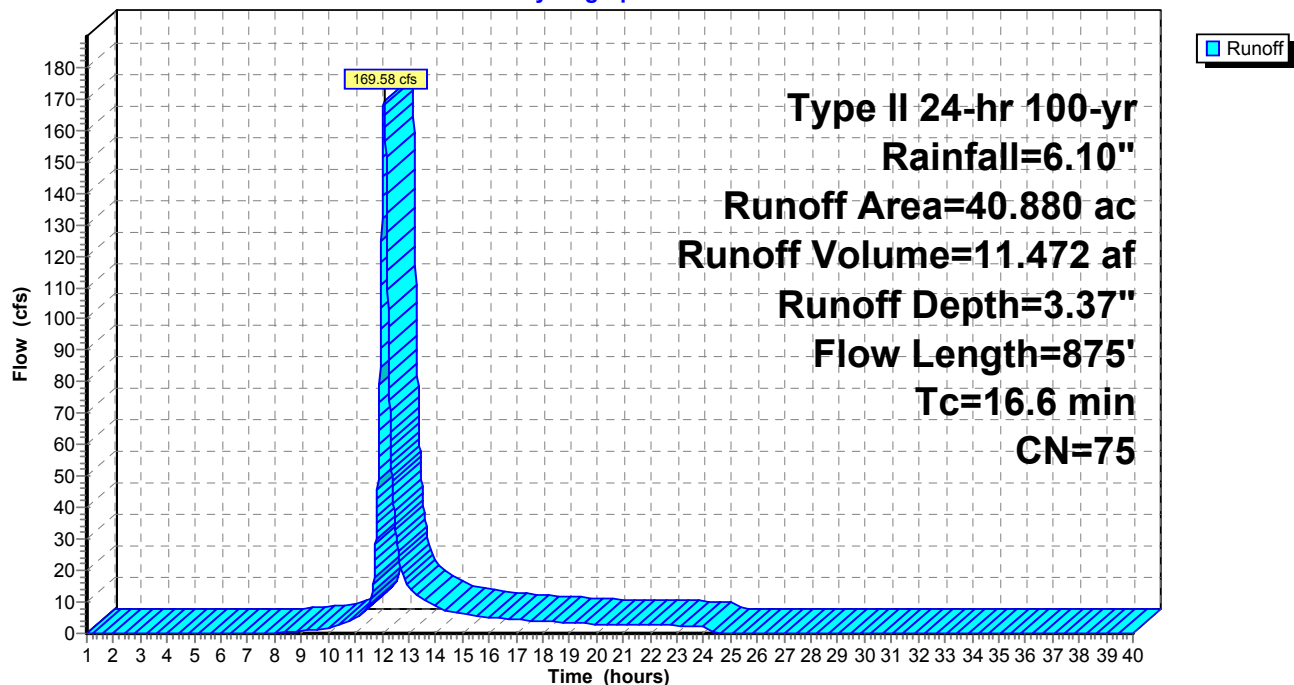
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description			
40.880	75				

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	875	0.0400	0.9		Lag/CN Method,

Subcatchment W75: W75

Hydrograph



Subcatchment W76: W76

Runoff = 106.86 cfs @ 12.37 hrs, Volume= 12.580 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

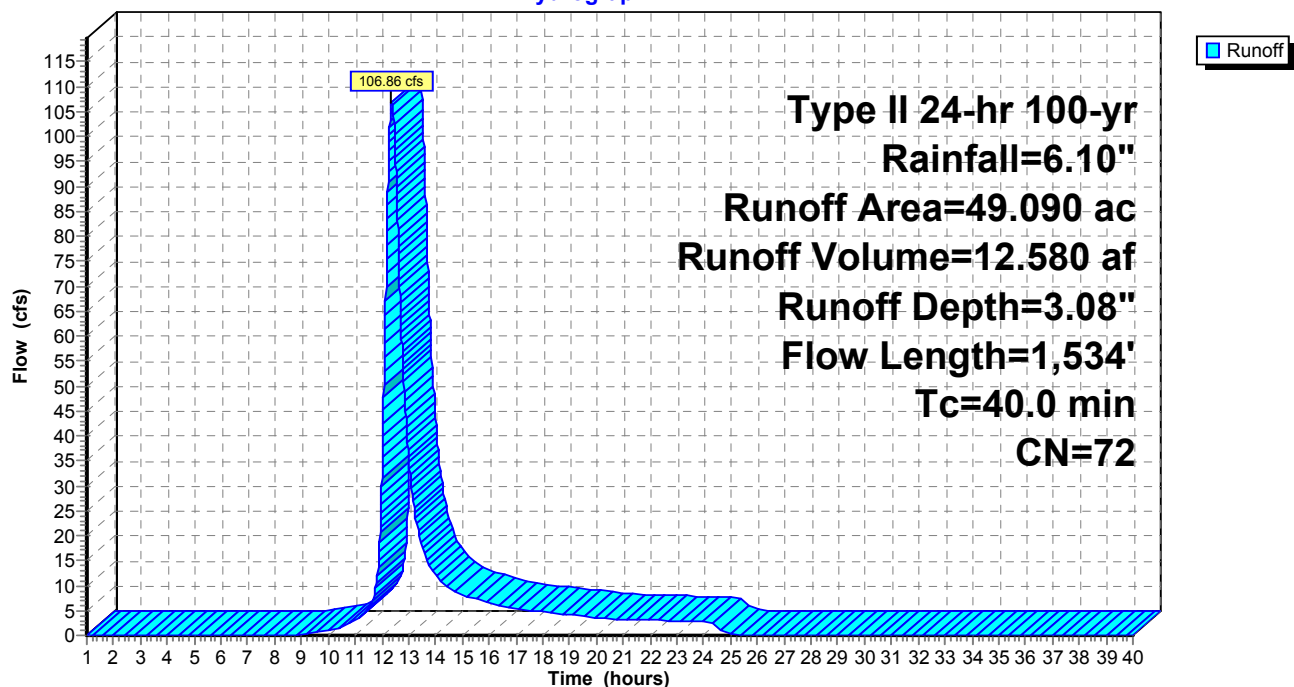
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
49.090	72	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.0	1,534	0.0200	0.6		Lag/CN Method,

Subcatchment W76: W76

Hydrograph



Subcatchment W77: W77

Runoff = 334.23 cfs @ 12.01 hrs, Volume= 17.863 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

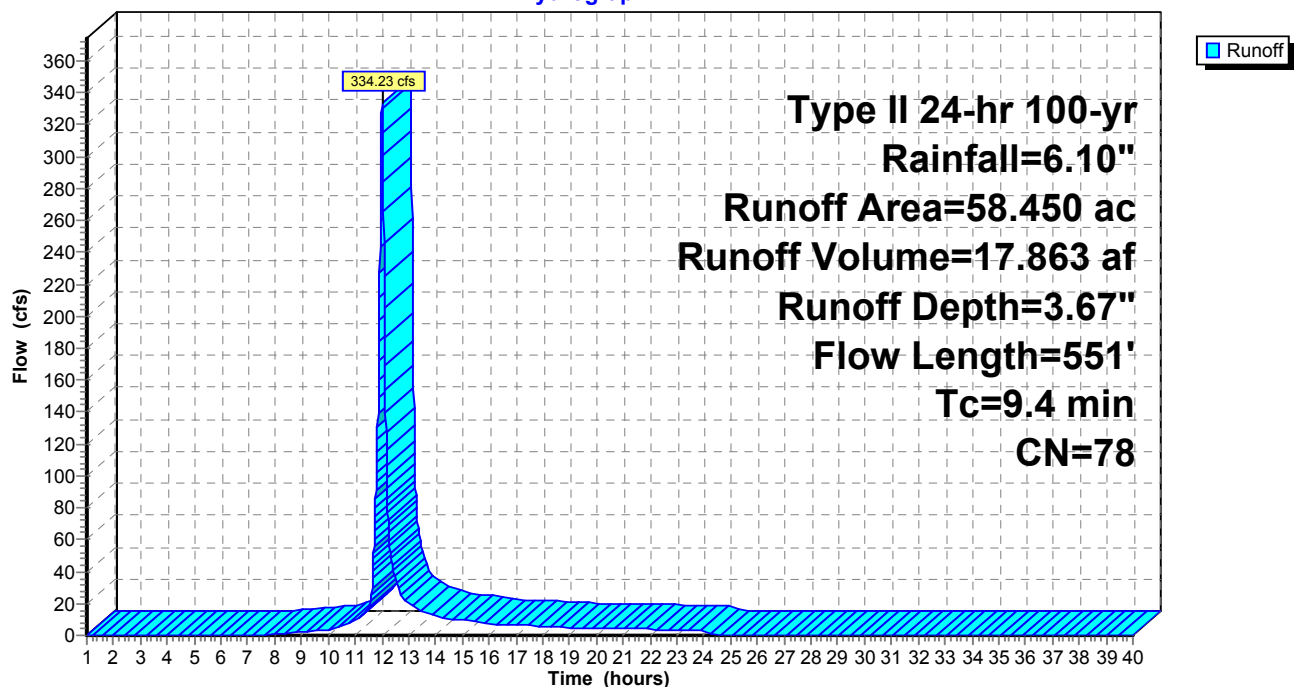
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
58.450	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.4	551	0.0500	1.0		Lag/CN Method,

Subcatchment W77: W77

Hydrograph



Subcatchment W79: W79

Runoff = 61.63 cfs @ 12.56 hrs, Volume= 9.179 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

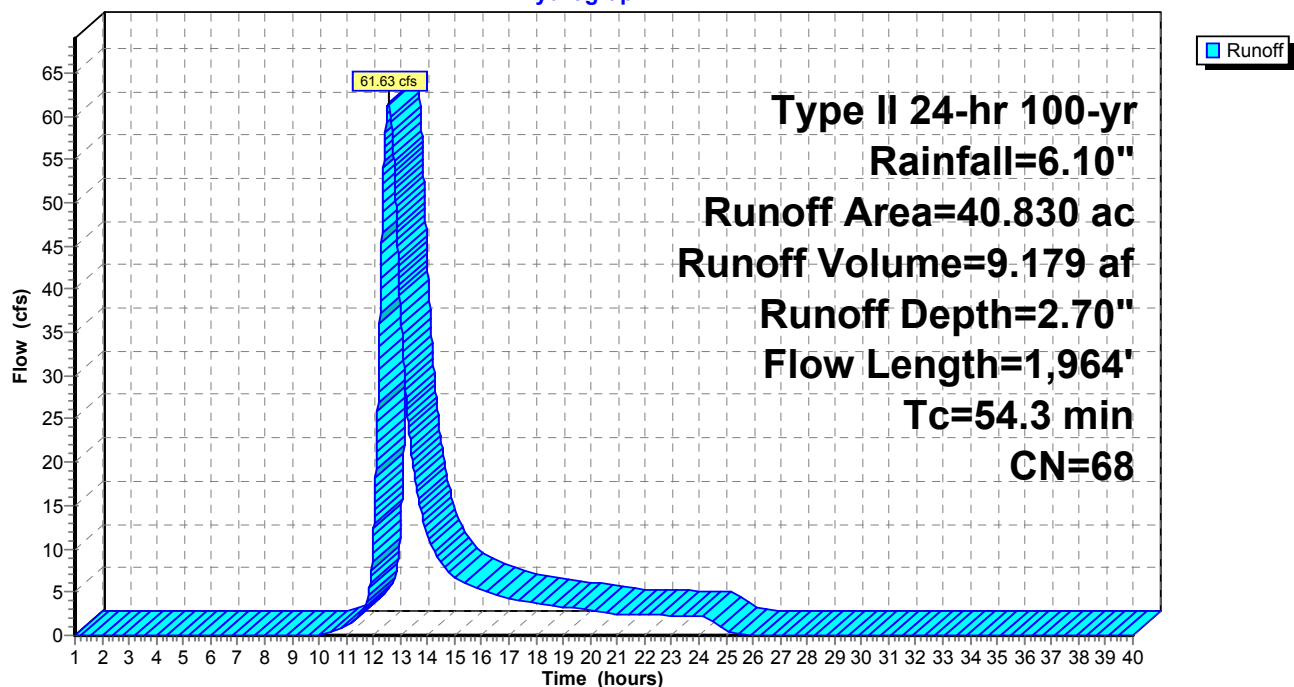
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
40.830	68	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.3	1,964	0.0200	0.6		Lag/CN Method,

Subcatchment W79: W79

Hydrograph



Subcatchment W80: W80

Runoff = 183.95 cfs @ 12.32 hrs, Volume= 19.617 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

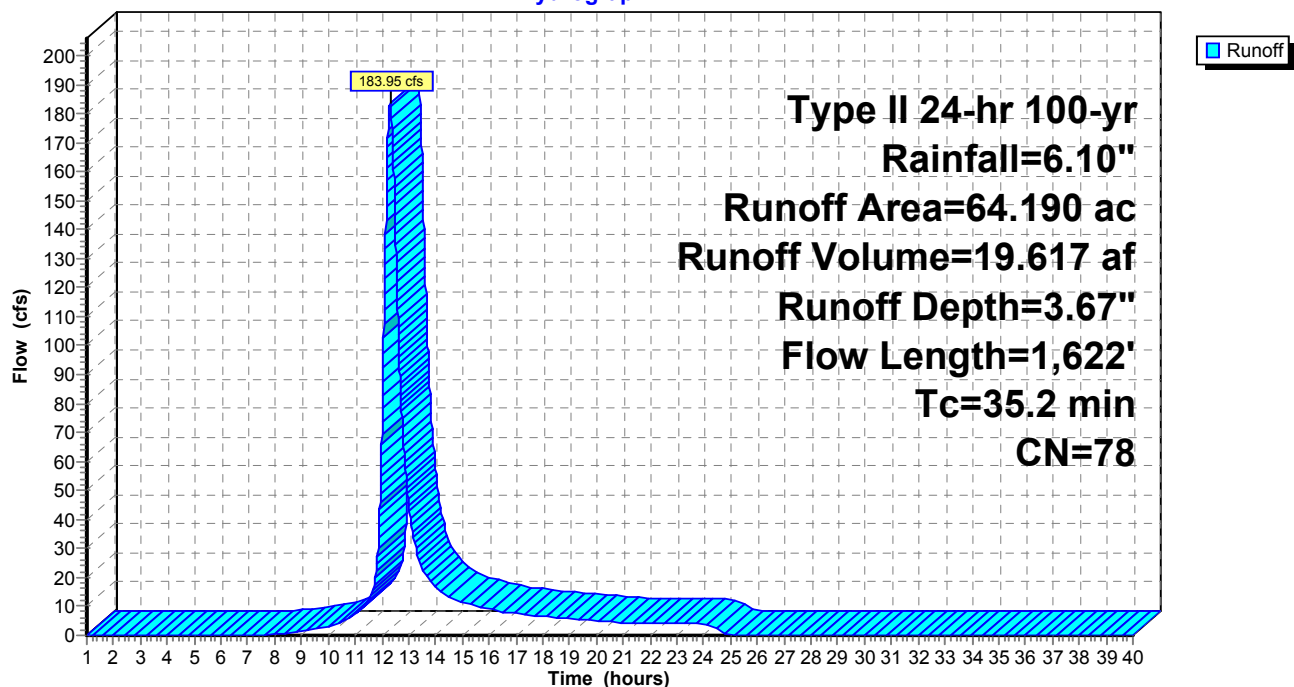
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
64.190	78	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.2	1,622	0.0200	0.8		Lag/CN Method,

Subcatchment W80: W80

Hydrograph



Subcatchment W81: W81

Runoff = 80.75 cfs @ 11.96 hrs, Volume= 4.095 af, Depth= 5.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

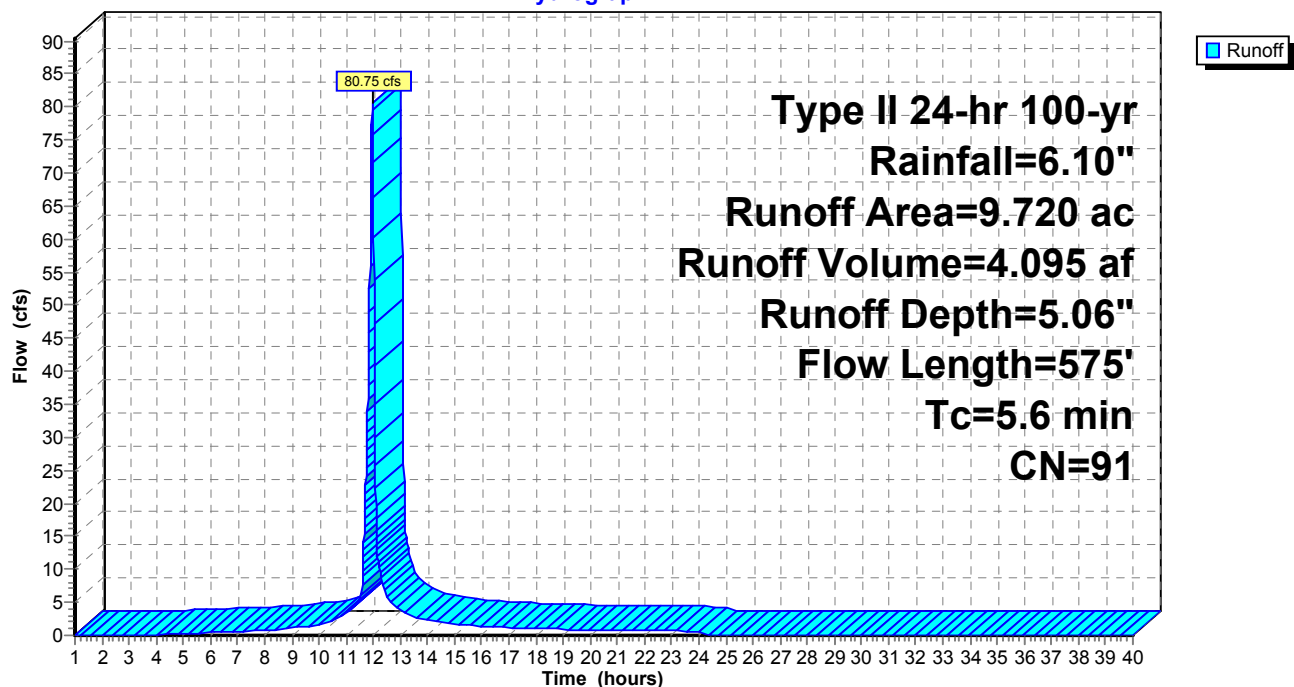
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.720	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	575	0.0600	1.7		Lag/CN Method,

Subcatchment W81: W81

Hydrograph



Subcatchment W82: W82

Runoff = 84.58 cfs @ 12.06 hrs, Volume= 5.231 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

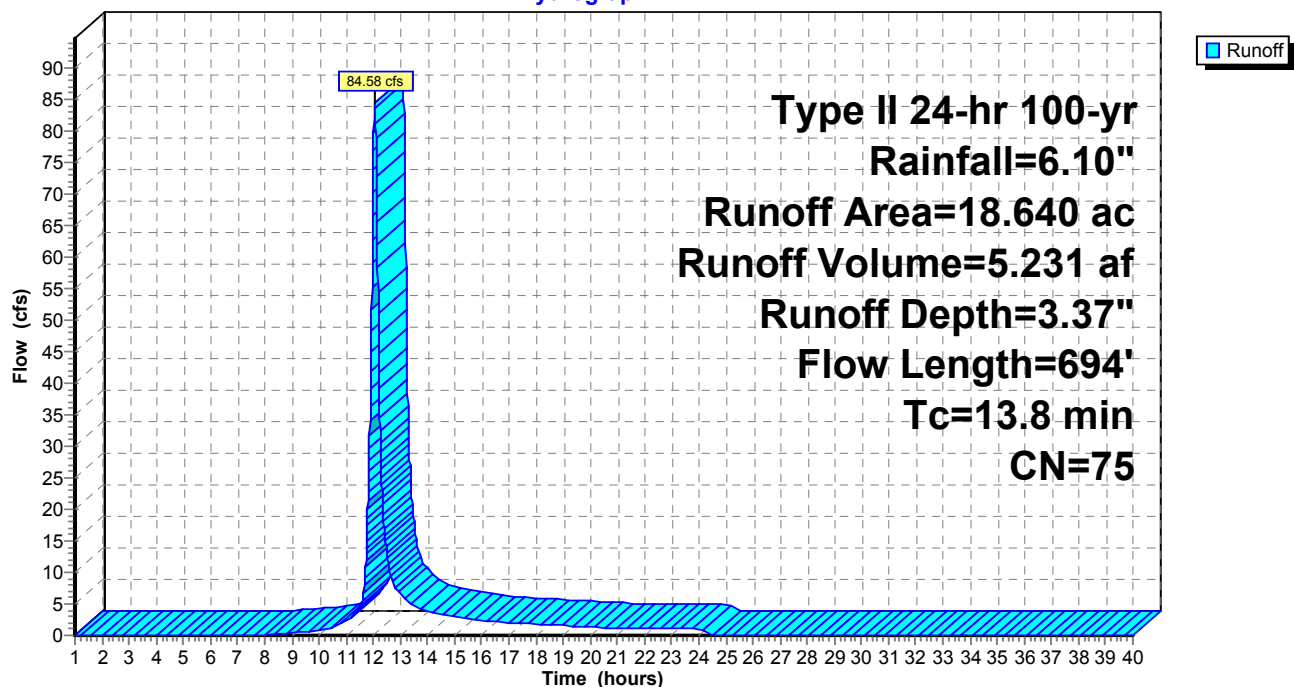
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.640	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	694	0.0400	0.8		Lag/CN Method,

Subcatchment W82: W82

Hydrograph



Subcatchment W83: W83

Runoff = 22.27 cfs @ 12.25 hrs, Volume= 2.202 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

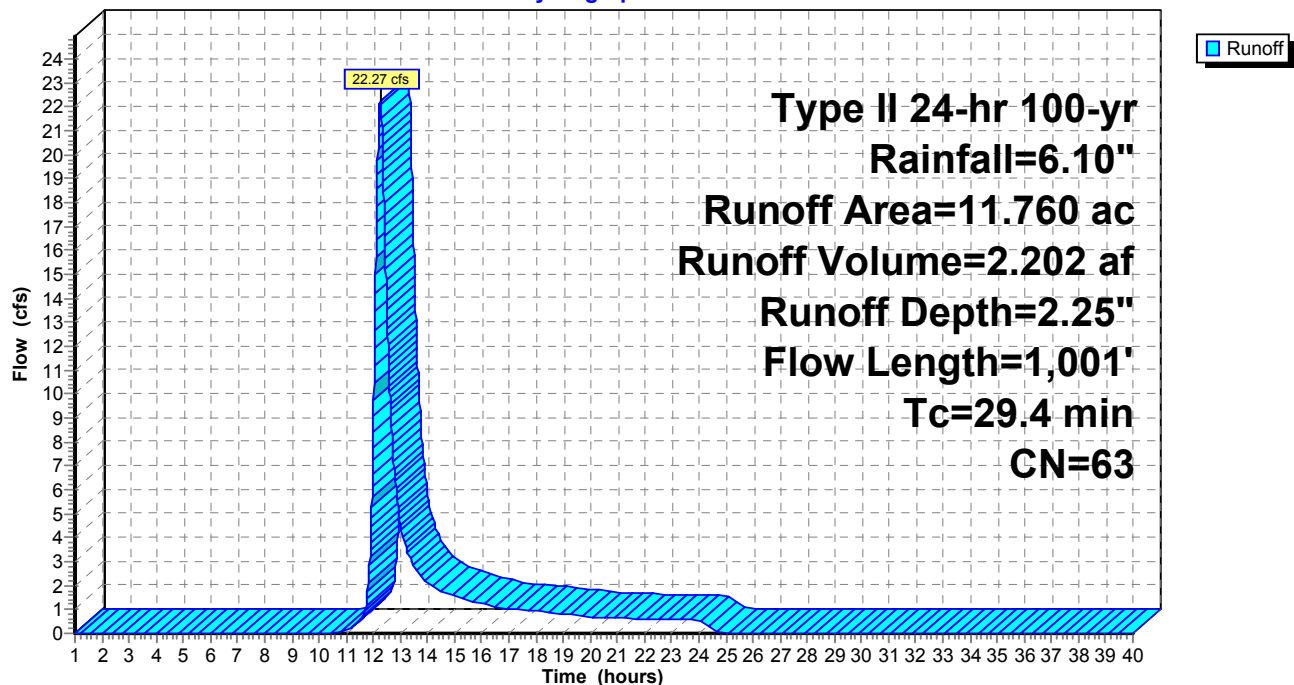
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
11.760	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,001	0.0300	0.6		Lag/CN Method,

Subcatchment W83: W83

Hydrograph



Subcatchment W84: W84

Runoff = 68.71 cfs @ 12.12 hrs, Volume= 5.142 af, Depth= 3.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

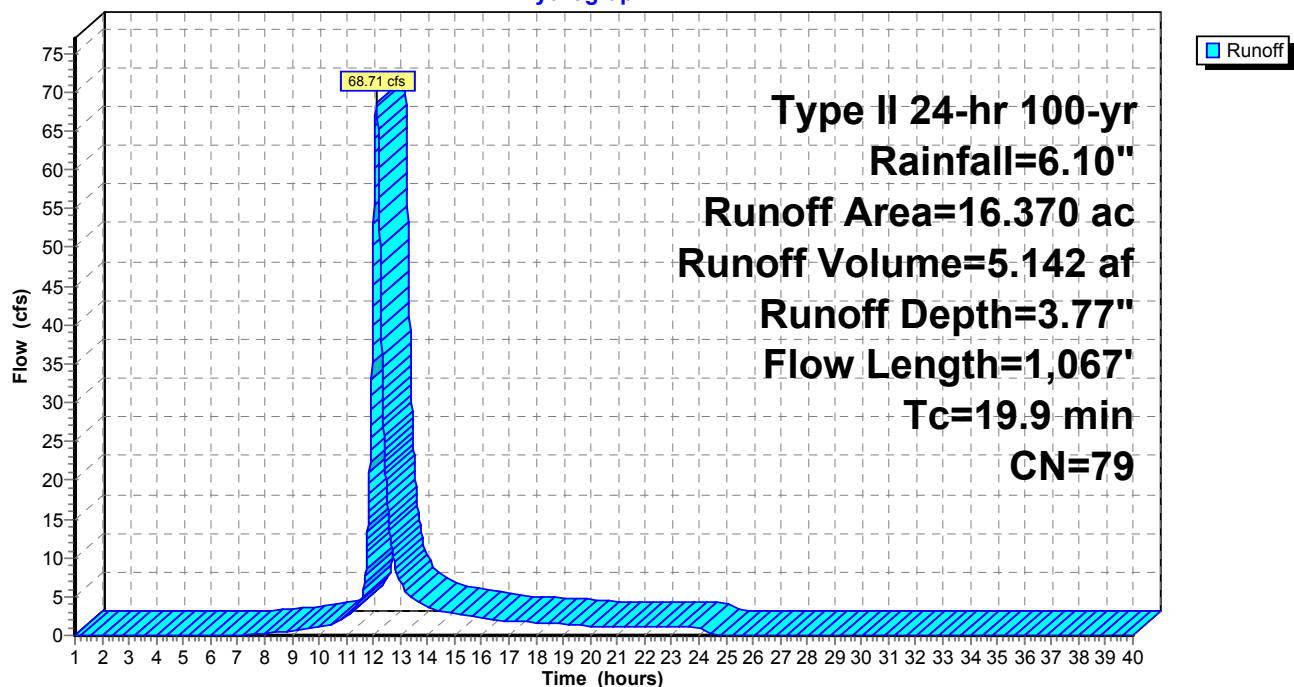
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
16.370	79	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,067	0.0300	0.9		Lag/CN Method,

Subcatchment W84: W84

Hydrograph



Subcatchment W85: W85

Runoff = 42.96 cfs @ 11.99 hrs, Volume= 2.372 af, Depth= 5.06"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

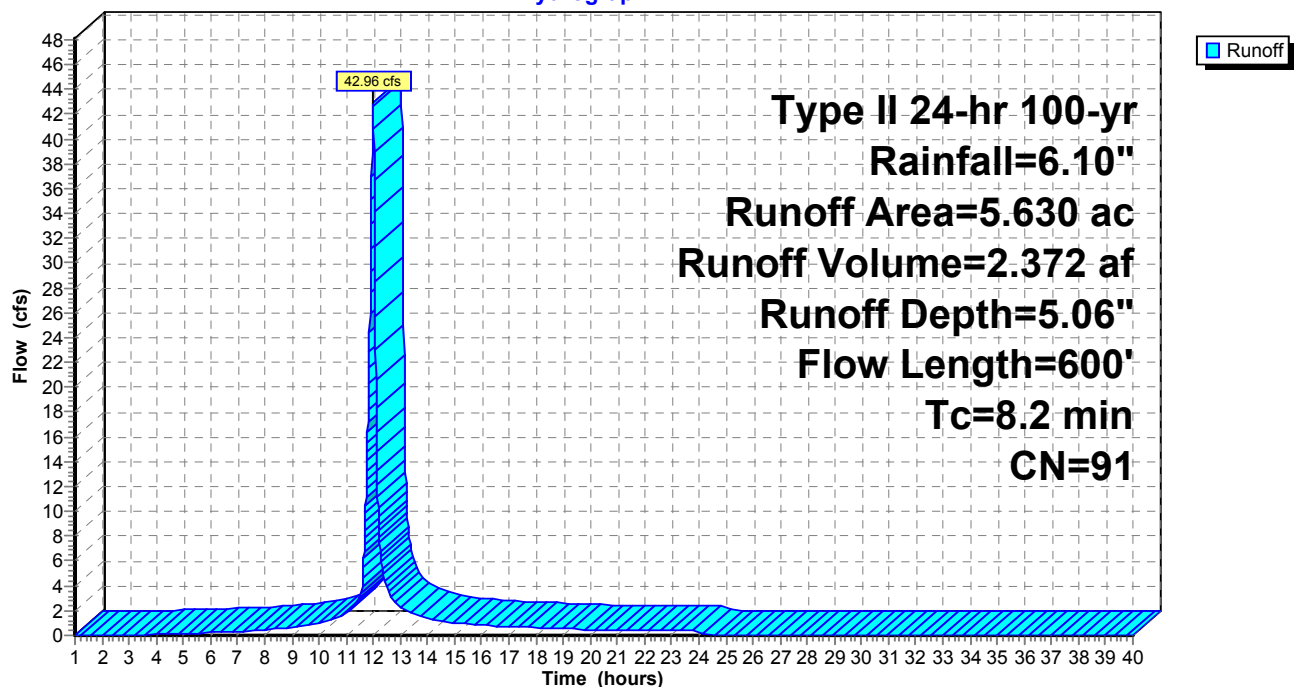
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
5.630	91	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	600	0.0300	1.2		Lag/CN Method,

Subcatchment W85: W85

Hydrograph



Subcatchment W86: W86

Runoff = 15.14 cfs @ 12.16 hrs, Volume= 1.520 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

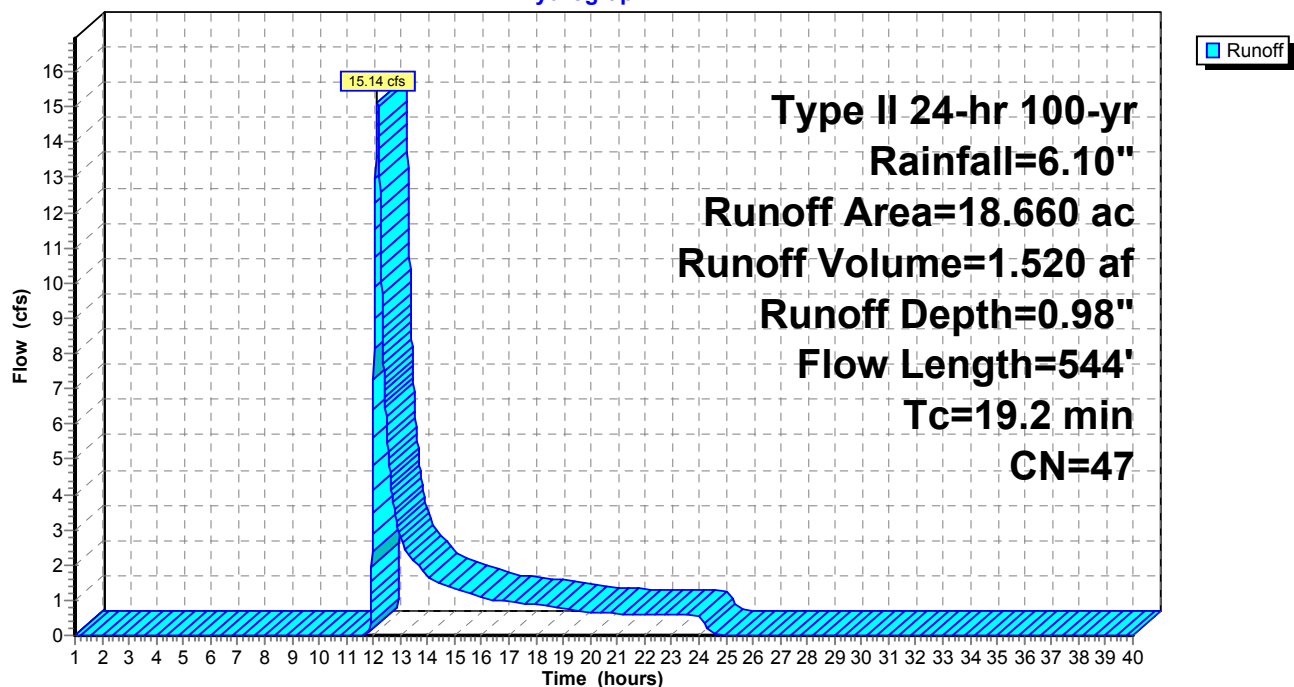
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
18.660	47	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	544	0.0600	0.5		Lag/CN Method,

Subcatchment W86: W86

Hydrograph



Subcatchment W87: W87

Runoff = 12.09 cfs @ 12.12 hrs, Volume= 0.939 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

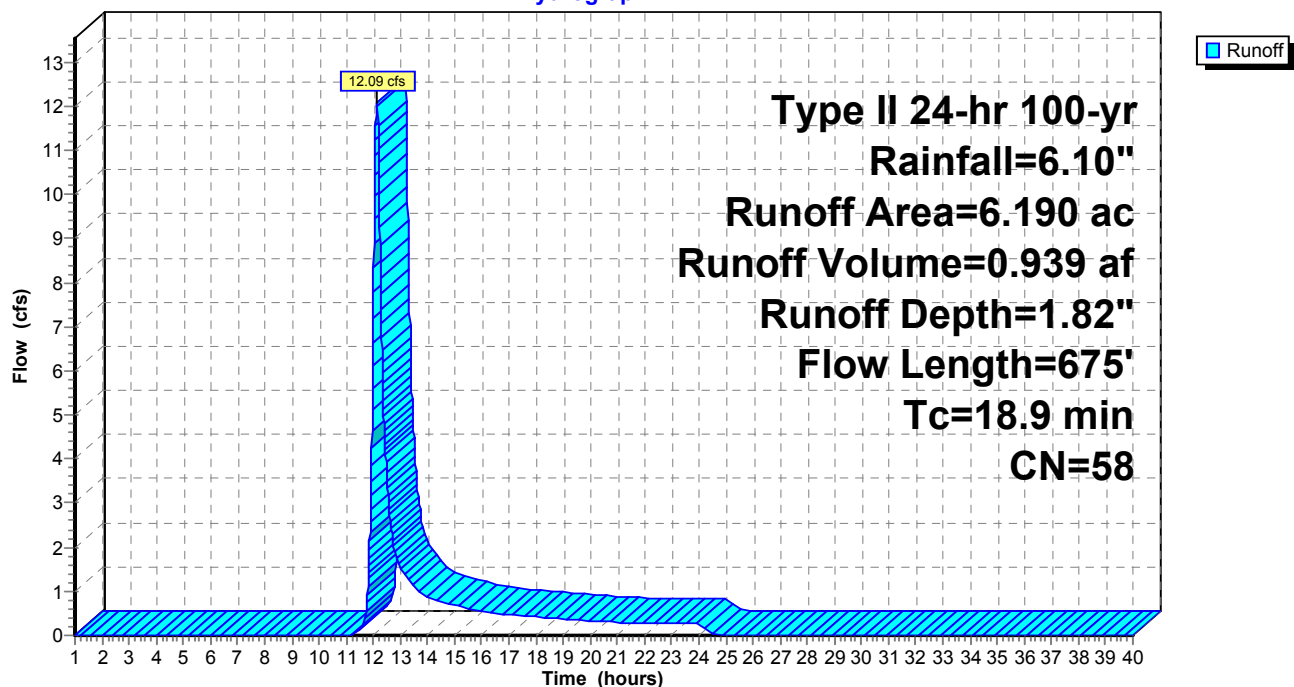
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
6.190	58	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.9	675	0.0500	0.6		Lag/CN Method,

Subcatchment W87: W87

Hydrograph



Subcatchment W88: W88

Runoff = 32.86 cfs @ 12.14 hrs, Volume= 2.669 af, Depth= 1.58"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

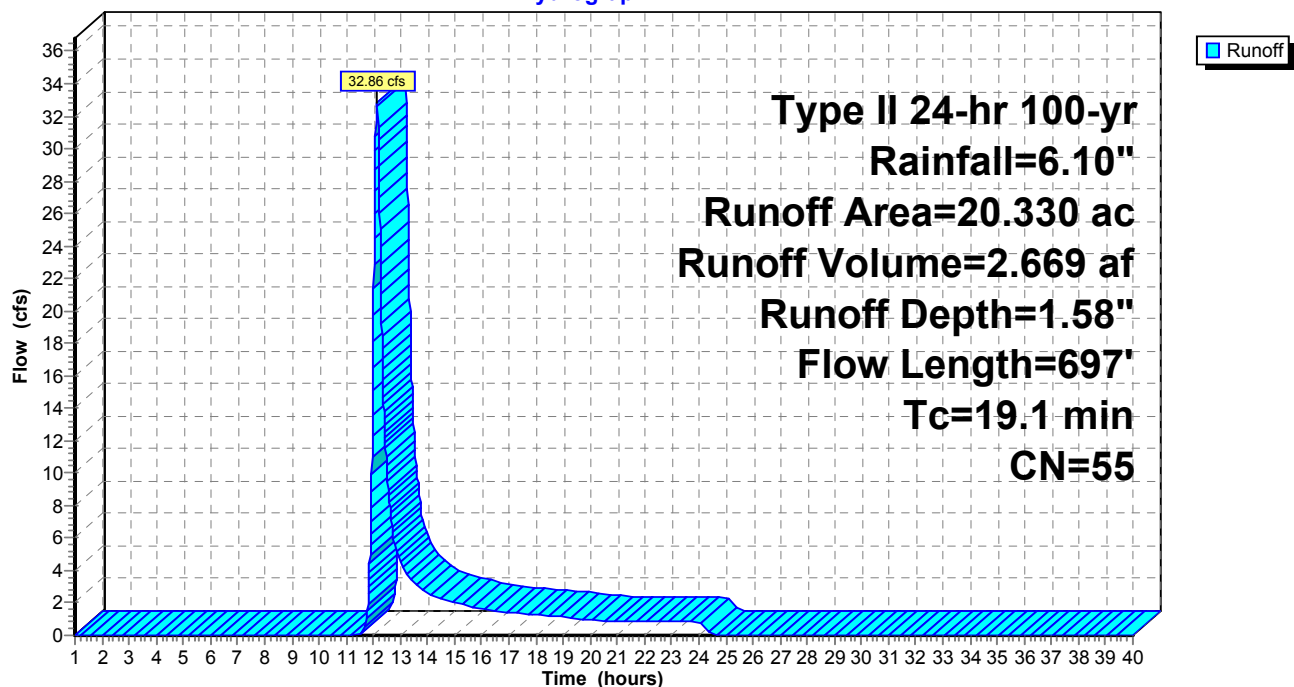
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
20.330	55	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	697	0.0600	0.6		Lag/CN Method,

Subcatchment W88: W88

Hydrograph



Subcatchment W89: W89

Runoff = 114.86 cfs @ 12.50 hrs, Volume= 15.766 af, Depth= 3.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

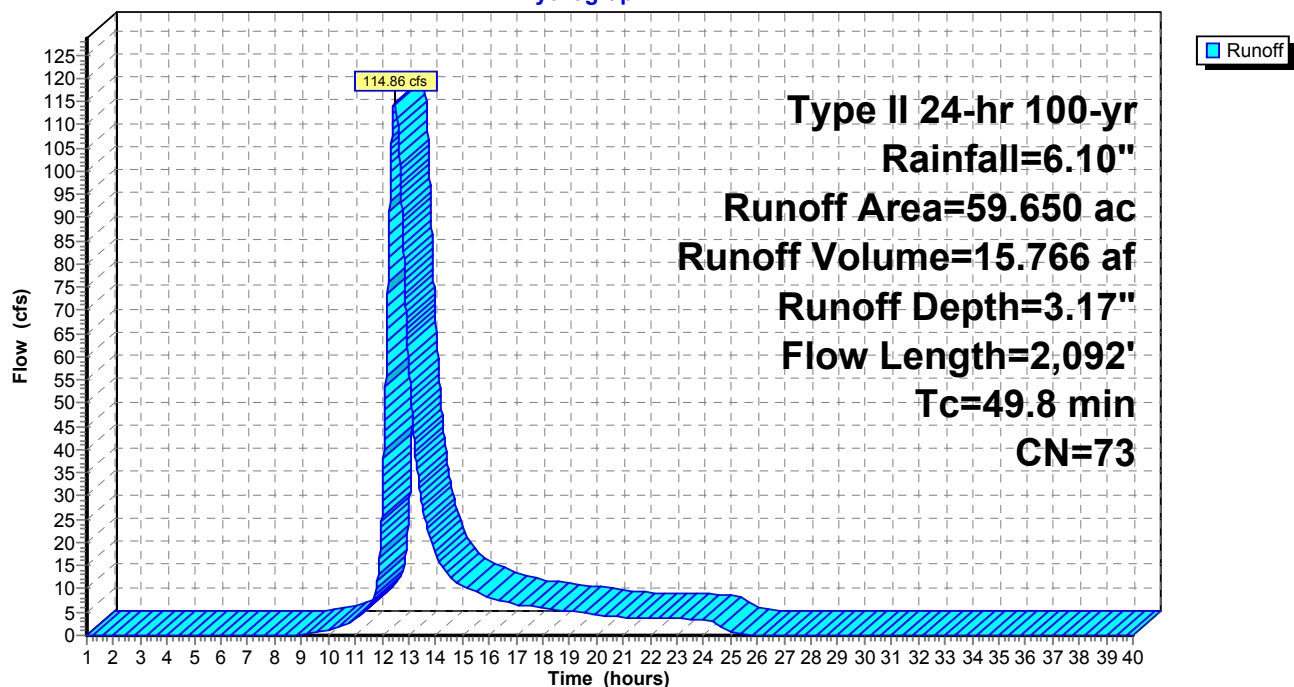
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
59.650	73	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	2,092	0.0200	0.7		Lag/CN Method,

Subcatchment W89: W89

Hydrograph



Subcatchment W90: W90

Runoff = 88.27 cfs @ 13.27 hrs, Volume= 21.121 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

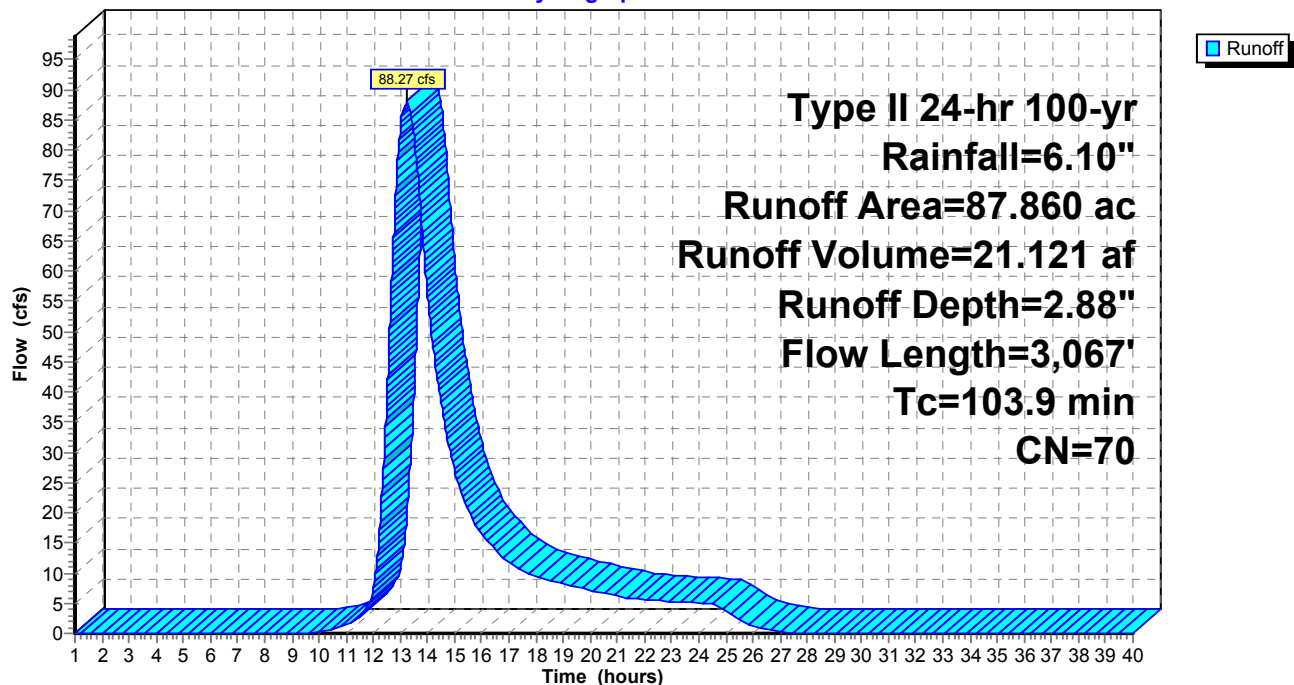
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
87.860	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
103.9	3,067	0.0100	0.5		Lag/CN Method,

Subcatchment W90: W90

Hydrograph



Subcatchment W91: W91

Runoff = 59.56 cfs @ 12.45 hrs, Volume= 7.776 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

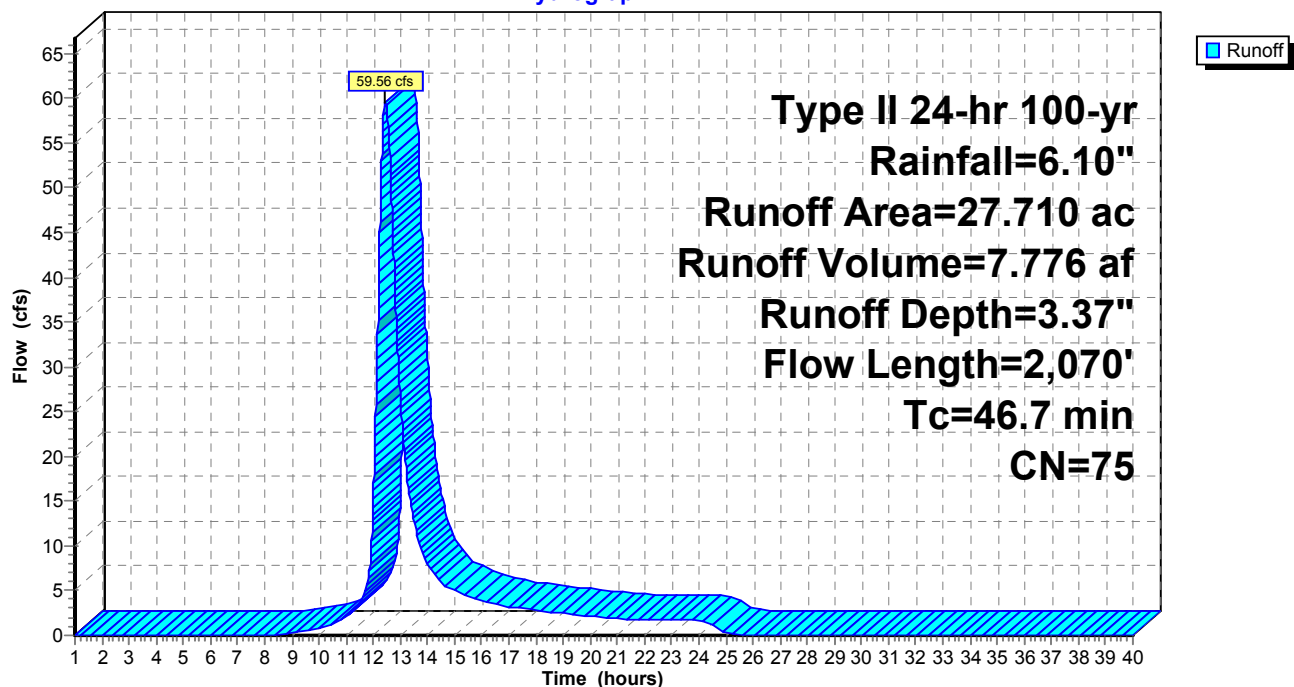
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
27.710	75	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	2,070	0.0200	0.7		Lag/CN Method,

Subcatchment W91: W91

Hydrograph



Subcatchment W92: W92

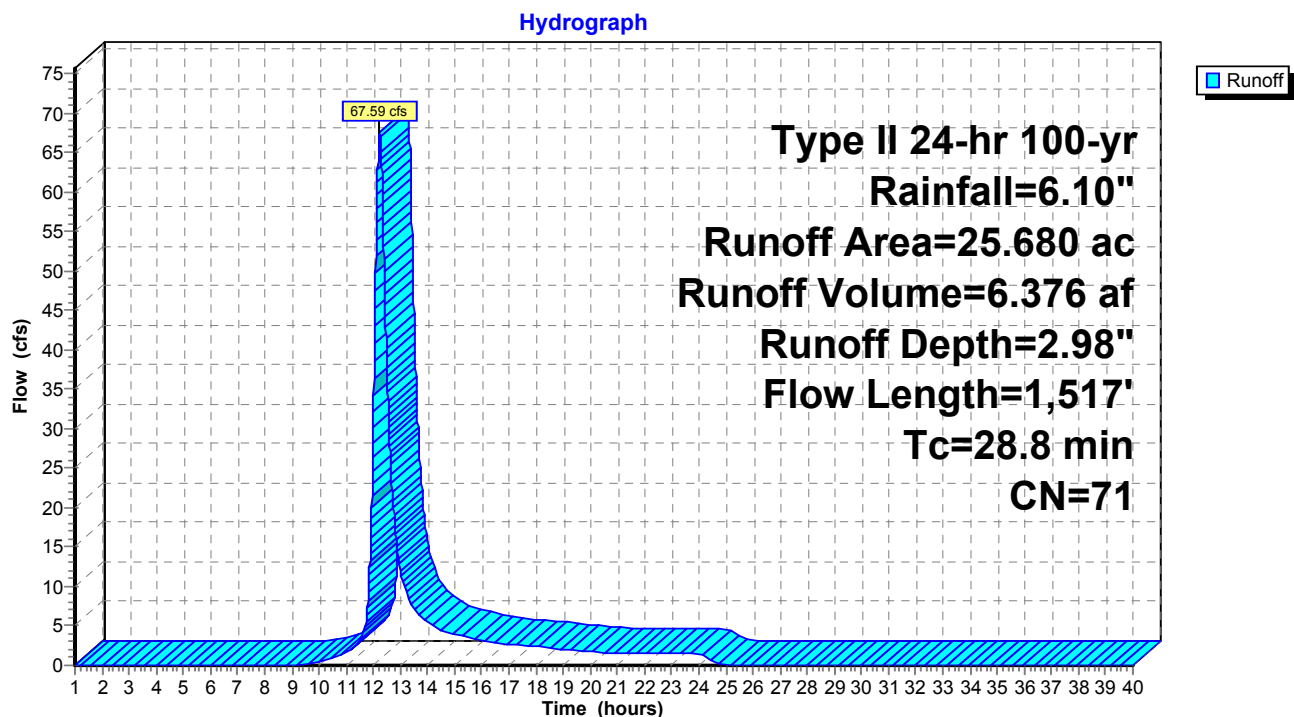
Runoff = 67.59 cfs @ 12.23 hrs, Volume= 6.376 af, Depth= 2.98"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
25.680	71	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	1,517	0.0400	0.9		Lag/CN Method,

Subcatchment W92: W92

Subcatchment W93: W93

Runoff = 13.93 cfs @ 11.96 hrs, Volume= 0.608 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

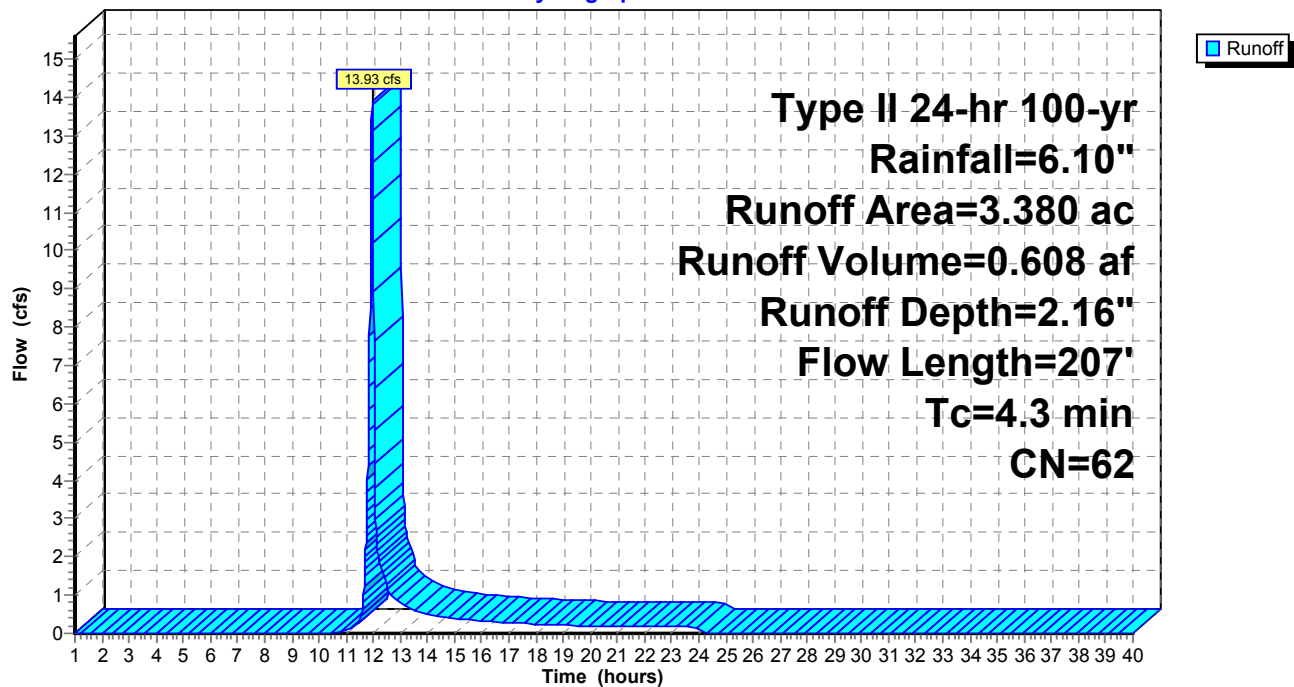
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
3.380	62	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	207	0.1200	0.8		Lag/CN Method,

Subcatchment W93: W93

Hydrograph



Subcatchment W94: W94

Runoff = 39.50 cfs @ 12.53 hrs, Volume= 5.699 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

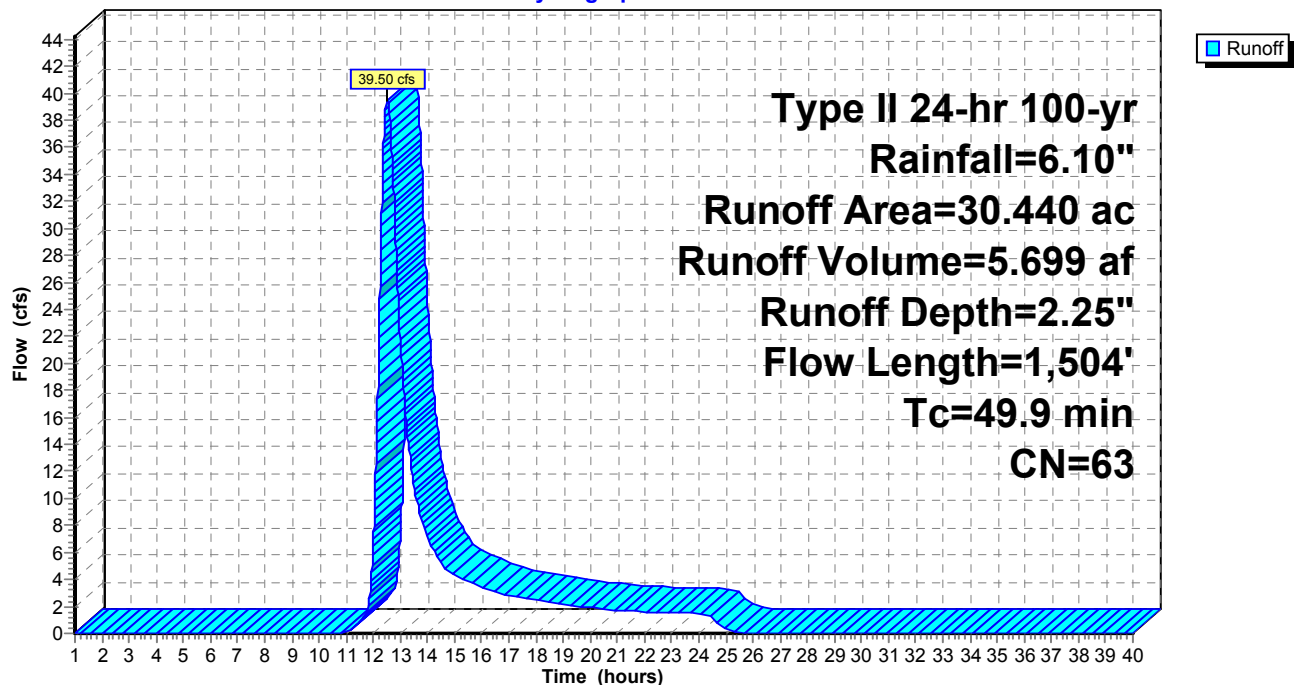
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
30.440	63	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.9	1,504	0.0200	0.5		Lag/CN Method,

Subcatchment W94: W94

Hydrograph



Subcatchment W95: W95

Runoff = 6.90 cfs @ 12.10 hrs, Volume= 0.628 af, Depth= 0.84"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

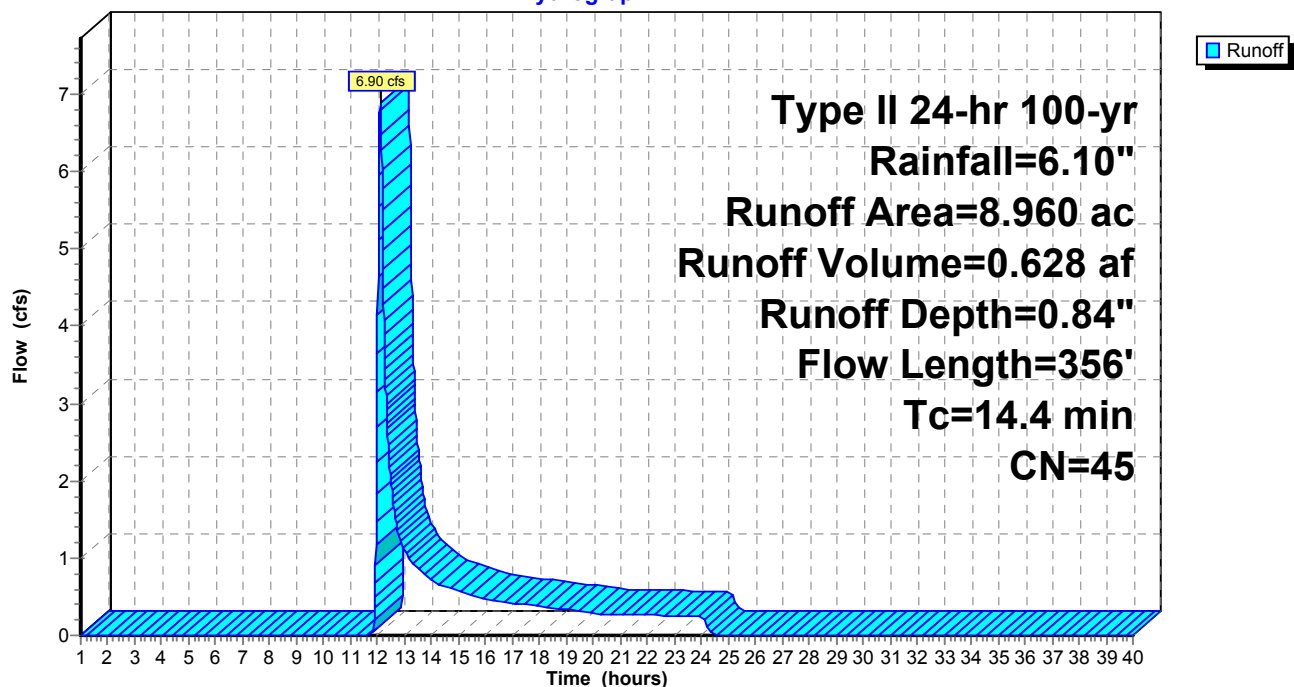
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
8.960	45	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.4	356	0.0600	0.4		Lag/CN Method,

Subcatchment W95: W95

Hydrograph



Subcatchment W96: W96

Runoff = 47.32 cfs @ 12.16 hrs, Volume= 3.901 af, Depth= 3.87"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

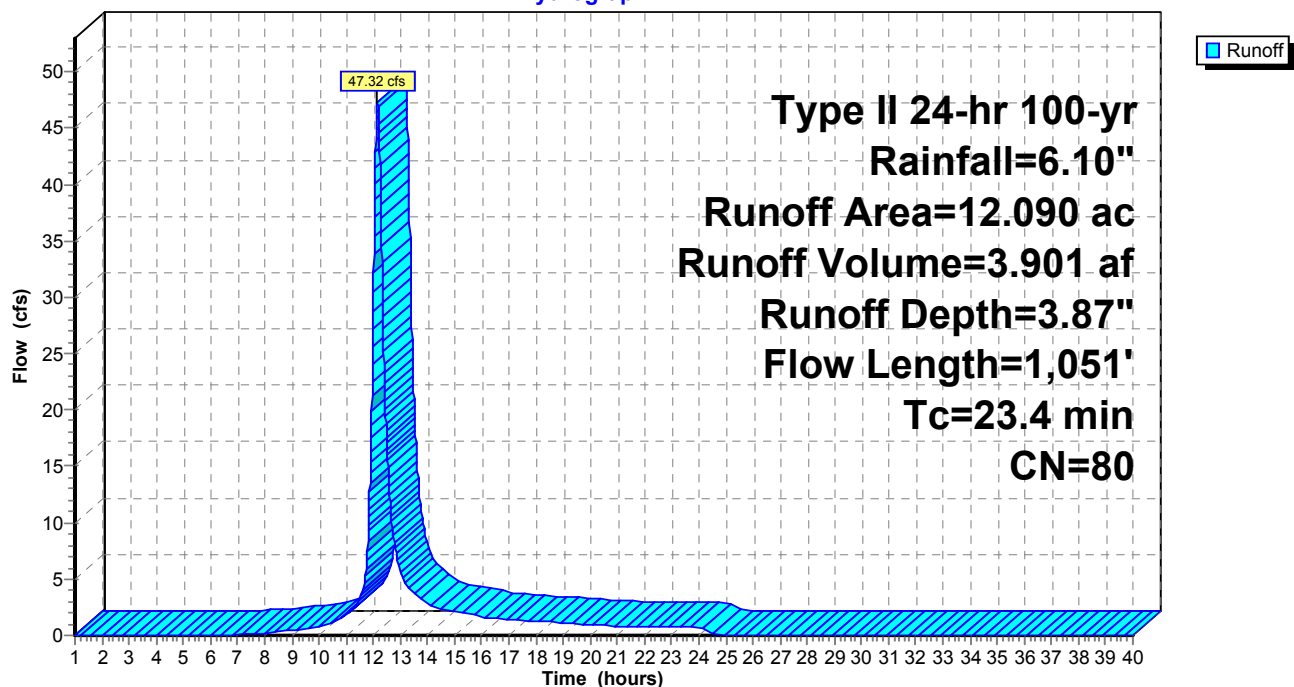
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
12.090	80	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,051	0.0200	0.7		Lag/CN Method,

Subcatchment W96: W96

Hydrograph



Subcatchment W97: W97

Runoff = 36.66 cfs @ 12.01 hrs, Volume= 1.916 af, Depth= 2.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

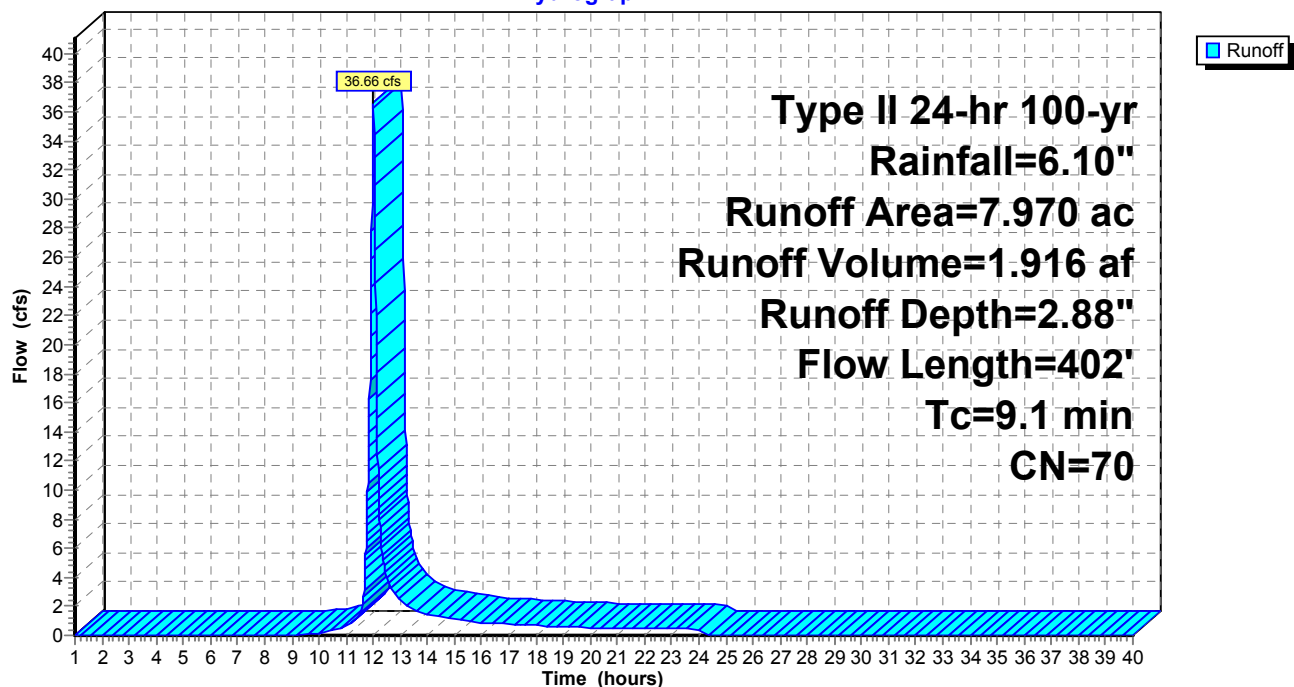
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
7.970	70	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	402	0.0500	0.7		Lag/CN Method,

Subcatchment W97: W97

Hydrograph



Subcatchment W98: W98

Runoff = 17.51 cfs @ 12.19 hrs, Volume= 1.596 af, Depth= 1.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

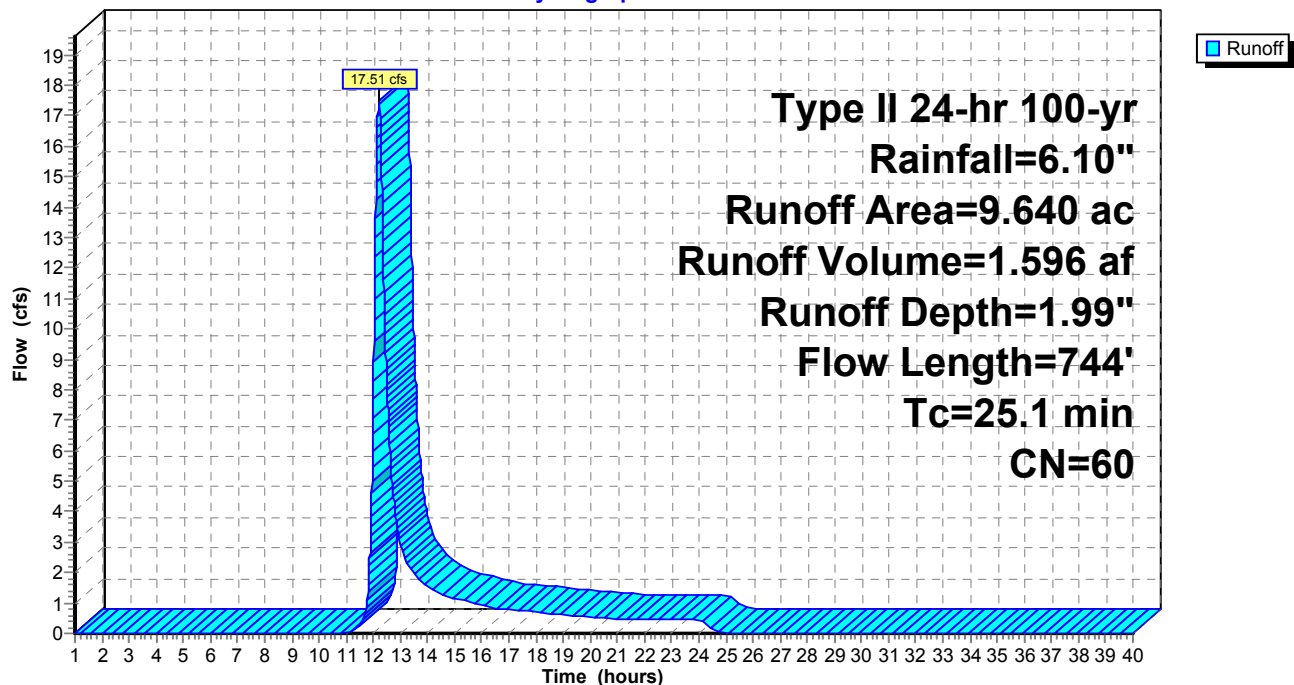
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description
9.640	60	

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.1	744	0.0300	0.5		Lag/CN Method,

Subcatchment W98: W98

Hydrograph



Subcatchment W99: W99

Runoff = 15.88 cfs @ 12.00 hrs, Volume= 0.799 af, Depth= 2.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

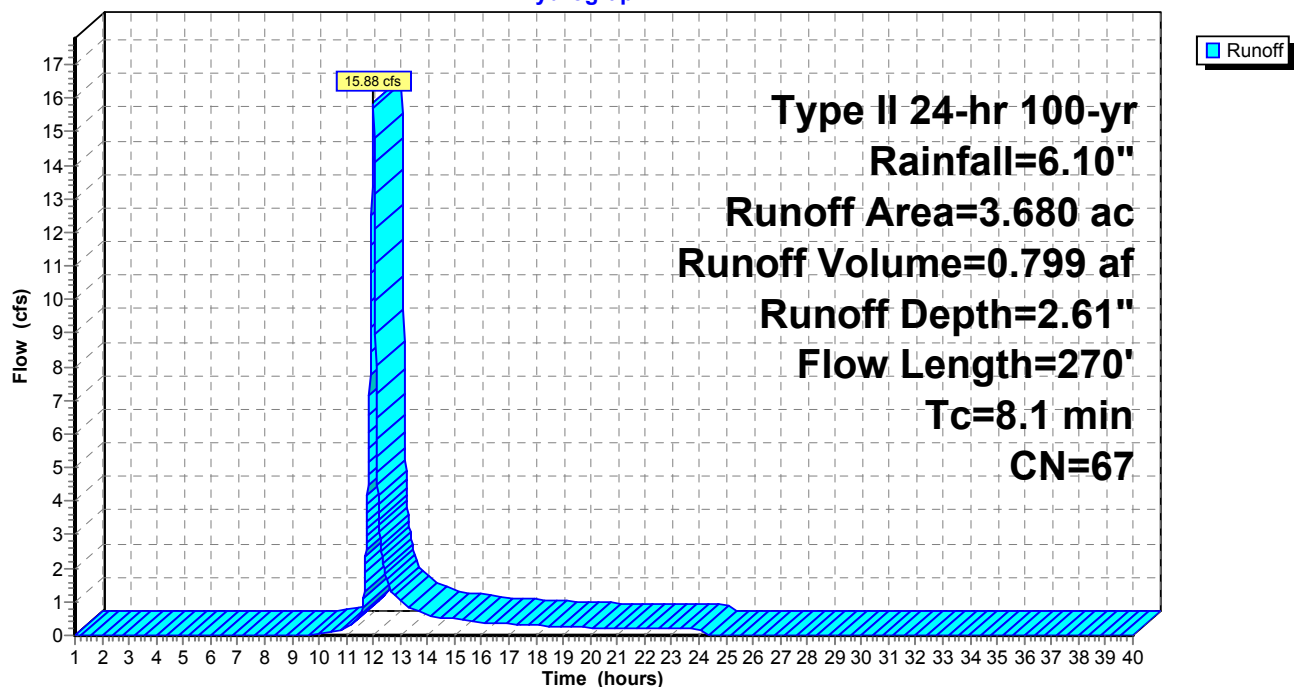
Type II 24-hr 100-yr Rainfall=6.10"

Area (ac)	CN	Description			
3.680	67				

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.1	270	0.0400	0.6		Lag/CN Method,

Subcatchment W99: W99

Hydrograph



Reach 4R: (new Reach)

Inflow Area = 47.571 ac, Inflow Depth > 2.09" for 100-yr event
 Inflow = 8.66 cfs @ 13.80 hrs, Volume= 8.277 af
 Outflow = 8.65 cfs @ 13.88 hrs, Volume= 8.263 af, Atten= 0%, Lag= 4.7 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 2.5 fps, Min. Travel Time= 6.3 min

Avg. Velocity = 1.7 fps, Avg. Travel Time= 9.2 min

Peak Depth= 0.49' @ 13.88 hrs

Capacity at bank full= 1,161.31 cfs

Inlet Invert= 980.00', Outlet Invert= 968.00'

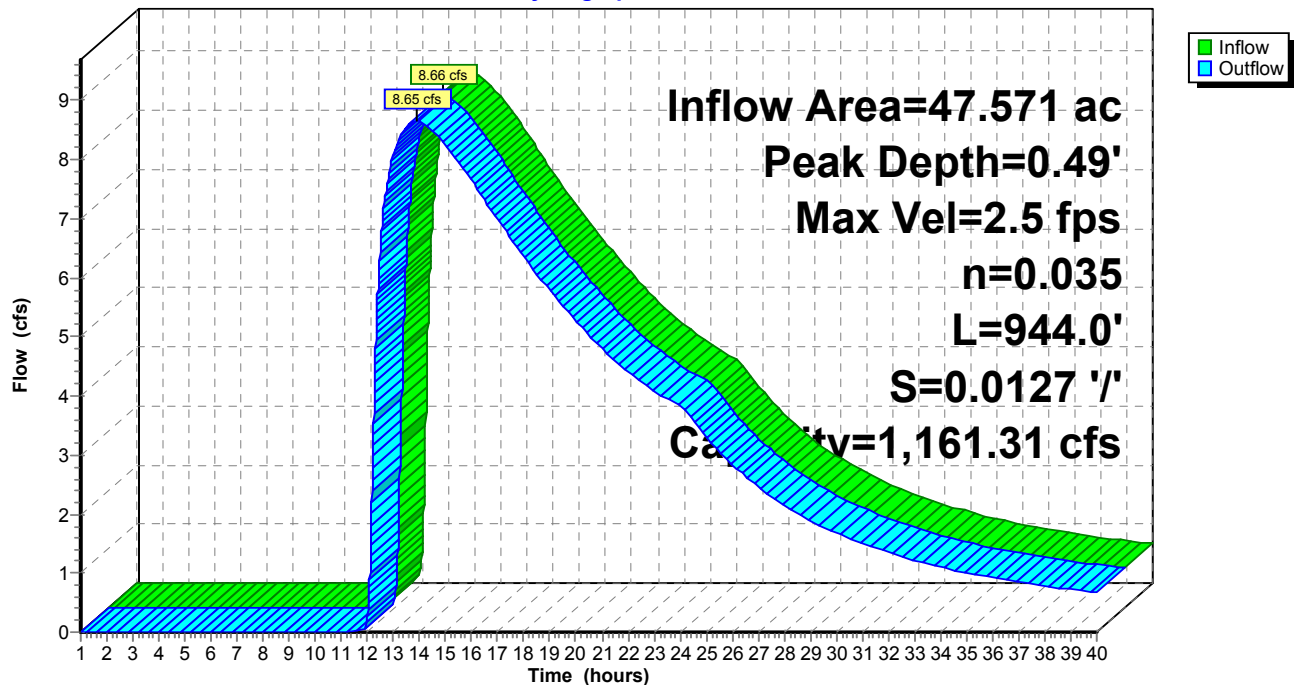
5.00' x 5.00' deep channel, n= 0.035 Earth, dense weeds

Side Slope Z-value= 4.0 ' Top Width= 45.00'

Length= 944.0' Slope= 0.0127 ' /'

Reach 4R: (new Reach)

Hydrograph



Reach 6R: (new Reach)

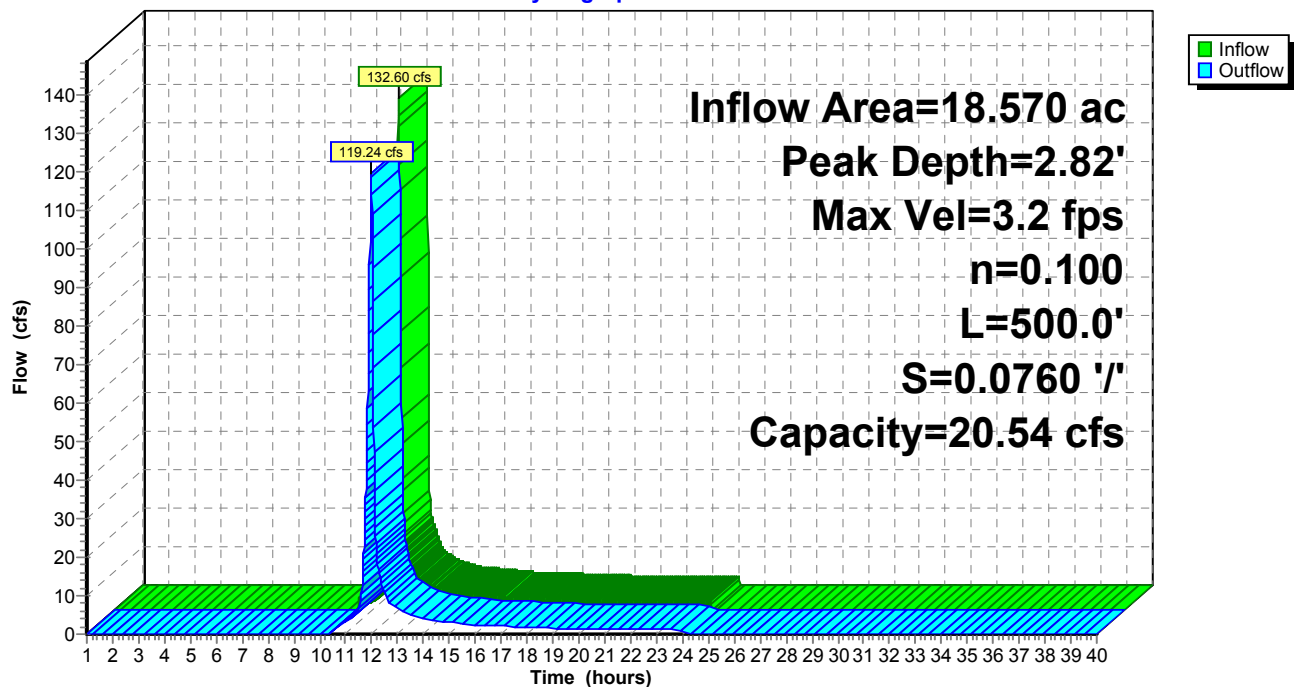
Inflow Area = 18.570 ac, Inflow Depth = 3.63" for 100-yr event
Inflow = 132.60 cfs @ 11.95 hrs, Volume= 5.625 af
Outflow = 119.24 cfs @ 11.98 hrs, Volume= 5.625 af, Atten= 10%, Lag= 1.7 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.2 fps, Min. Travel Time= 2.6 min
Avg. Velocity = 1.2 fps, Avg. Travel Time= 7.1 min

Peak Depth= 2.82' @ 11.98 hrs
Capacity at bank full= 20.54 cfs
Inlet Invert= 1,108.00', Outlet Invert= 1,070.00'
0.00' x 1.00' deep channel, n= 0.100 Earth, dense brush, high stage
Side Slope Z-value= 8.0 '/' Top Width= 16.00'
Length= 500.0' Slope= 0.0760 '/'

Reach 6R: (new Reach)

Hydrograph



Reach A1R: A1R

Inflow Area = 36.474 ac, Inflow Depth > 2.24" for 100-yr event
Inflow = 6.44 cfs @ 15.76 hrs, Volume= 6.808 af
Outflow = 6.44 cfs @ 15.82 hrs, Volume= 6.801 af, Atten= 0%, Lag= 3.4 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Max. Velocity= 4.1 fps, Min. Travel Time= 4.0 min

Avg. Velocity = 2.9 fps, Avg. Travel Time= 5.8 min

Peak Depth= 0.41' @ 15.82 hrs

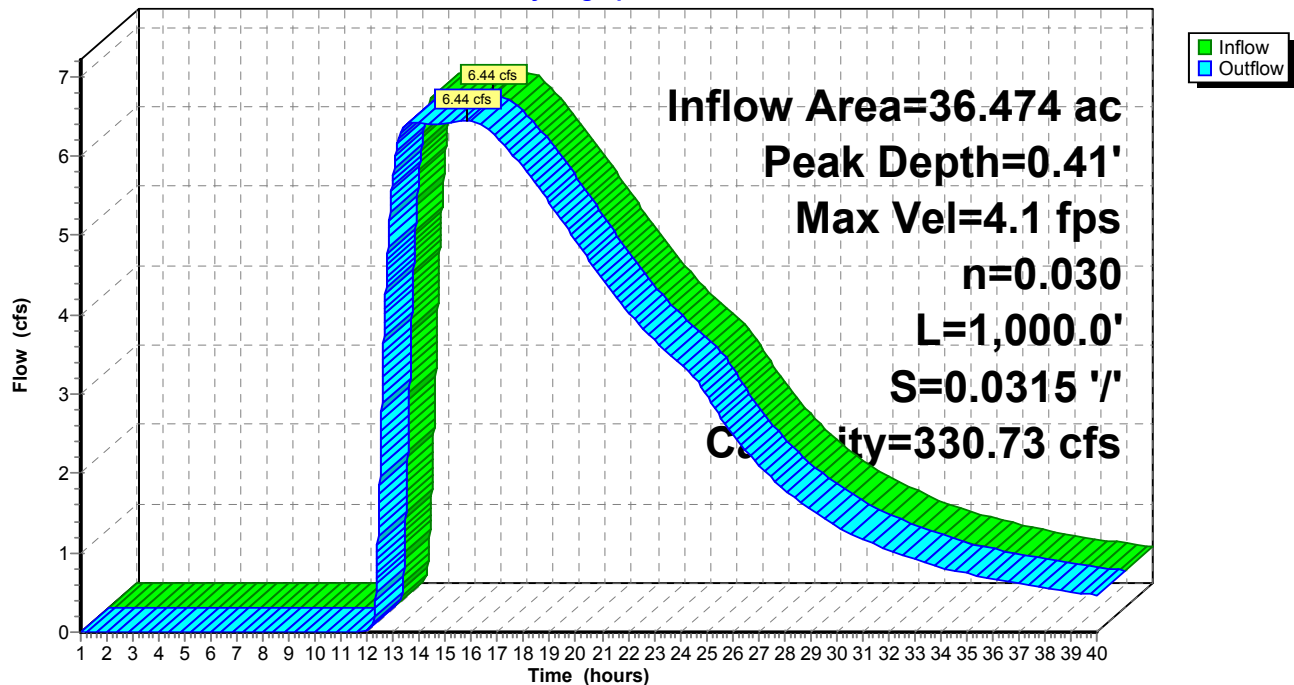
Capacity at bank full= 330.73 cfs

Inlet Invert= 1,092.50', Outlet Invert= 1,061.00'

3.00' x 3.00' deep channel, n= 0.030

Side Slope Z-value= 2.0 '/' Top Width= 15.00'

Length= 1,000.0' Slope= 0.0315 '/'

Reach A1R: A1R**Hydrograph**

Reach A4R: A4R

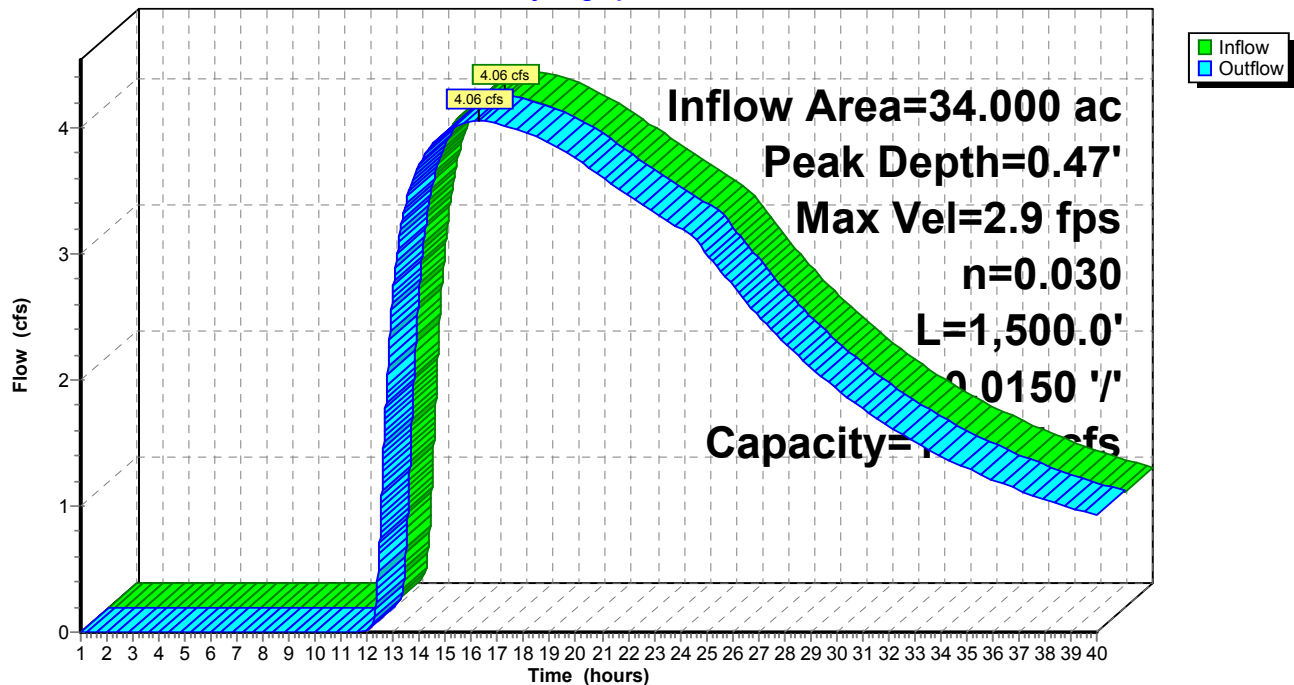
Inflow Area = 34.000 ac, Inflow Depth > 2.07" for 100-yr event
Inflow = 4.06 cfs @ 16.17 hrs, Volume= 5.864 af
Outflow = 4.06 cfs @ 16.28 hrs, Volume= 5.847 af, Atten= 0%, Lag= 6.3 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.9 fps, Min. Travel Time= 8.5 min
Avg. Velocity = 2.4 fps, Avg. Travel Time= 10.5 min

Peak Depth= 0.47' @ 16.28 hrs
Capacity at bank full= 195.57 cfs
Inlet Invert= 1,083.50', Outlet Invert= 1,061.00'
2.00' x 3.00' deep channel, n= 0.030
Side Slope Z-value= 2.0 '/' Top Width= 14.00'
Length= 1,500.0' Slope= 0.0150 '/'

Reach A4R: A4R

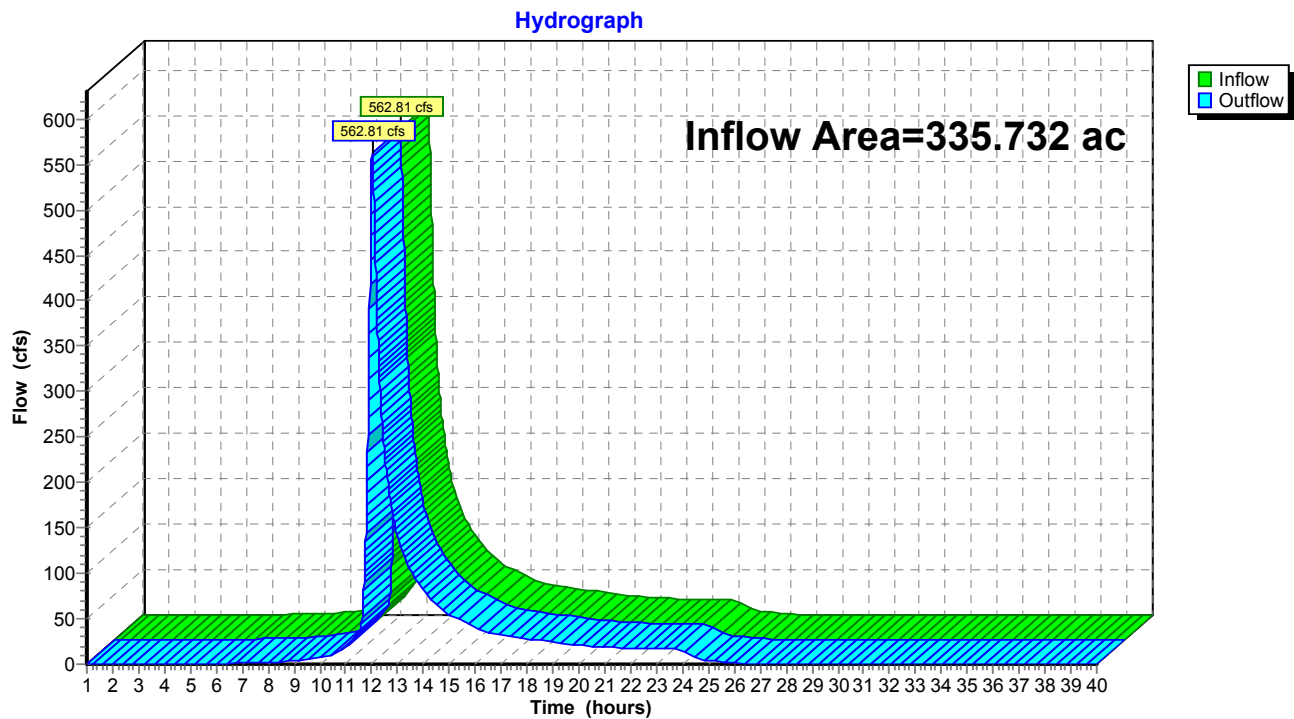
Hydrograph



Reach Apple River 1: Apple River-Above Dam

Inflow Area = 335.732 ac, Inflow Depth = 2.44" for 100-yr event
Inflow = 562.81 cfs @ 12.02 hrs, Volume= 68.178 af
Outflow = 562.81 cfs @ 12.02 hrs, Volume= 68.178 af, Atten= 0%, Lag= 0.0 min

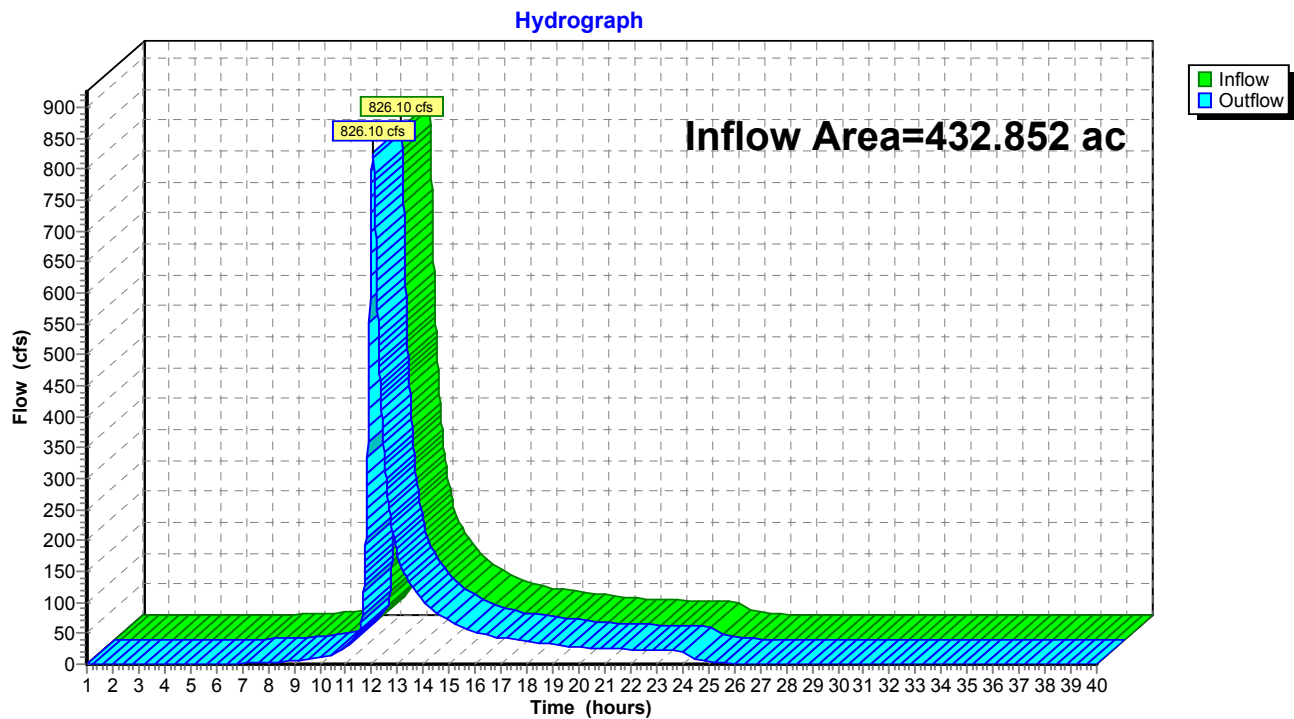
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 1: Apple River-Above Dam

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

Inflow Area = 432.852 ac, Inflow Depth = 2.57" for 100-yr event
Inflow = 826.10 cfs @ 12.04 hrs, Volume= 92.635 af
Outflow = 826.10 cfs @ 12.04 hrs, Volume= 92.635 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 2: Apple River-Below Dam to South Twin Outlet

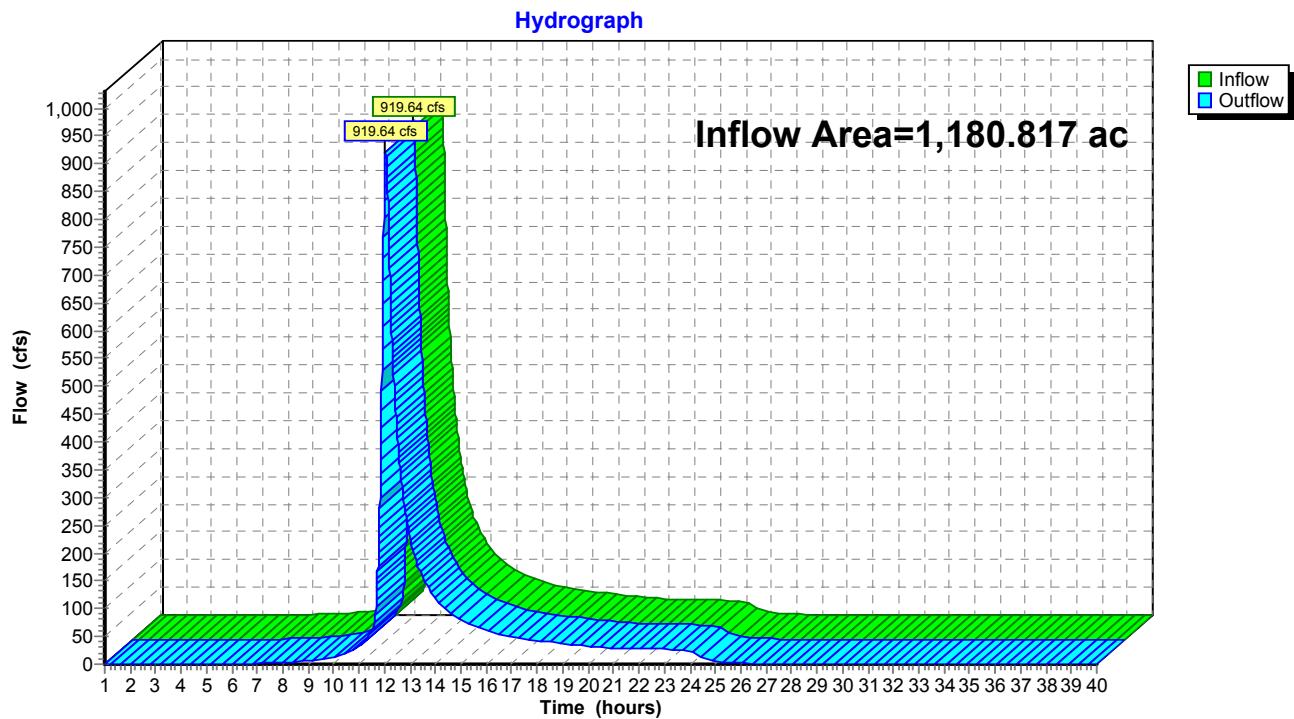
Reach Apple River 3: Apple River - At South Twin Outlet

Inflow Area = 1,180.817 ac, Inflow Depth > 1.12" for 100-yr event

Inflow = 919.64 cfs @ 12.04 hrs, Volume= 110.182 af

Outflow = 919.64 cfs @ 12.04 hrs, Volume= 110.182 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 3: Apple River - At South Twin Outlet

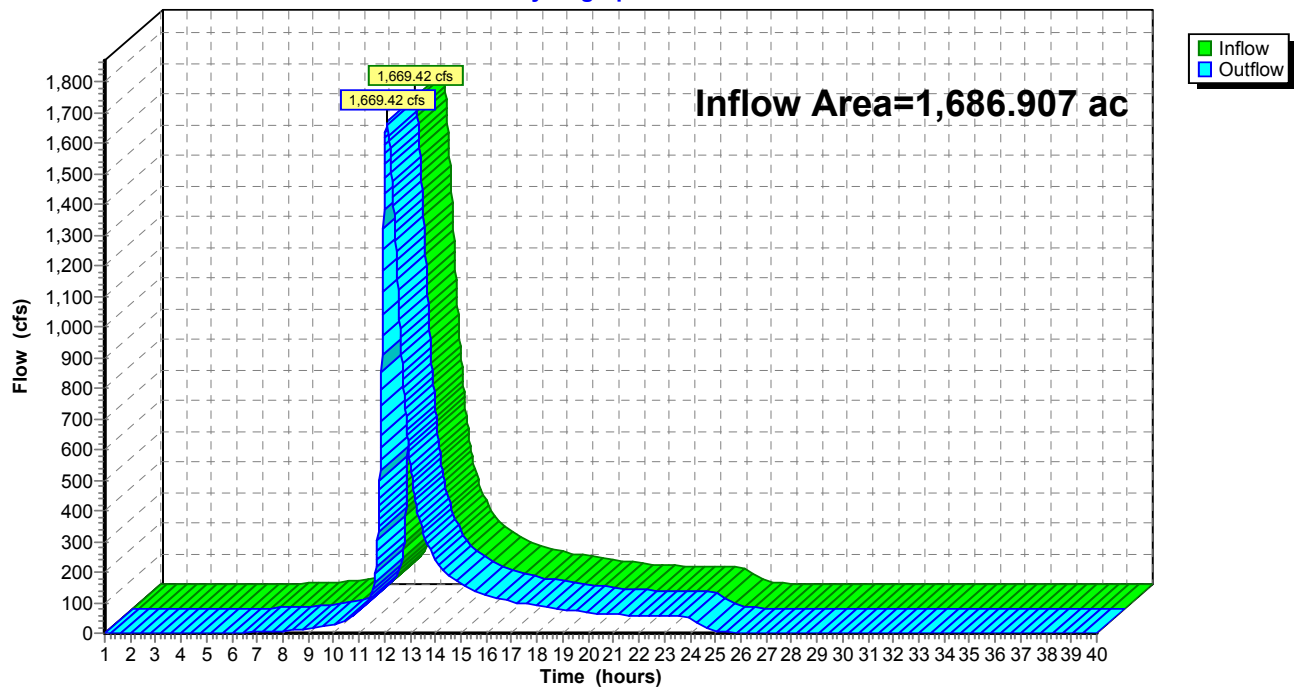
Reach Apple River 4: Apple River Downstream of South Twin Outlet

Inflow Area = 1,686.907 ac, Inflow Depth > 1.70" for 100-yr event

Inflow = 1,669.42 cfs @ 12.10 hrs, Volume= 238.635 af

Outflow = 1,669.42 cfs @ 12.10 hrs, Volume= 238.635 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Reach Apple River 4: Apple River Downstream of South Twin Outlet**Hydrograph**

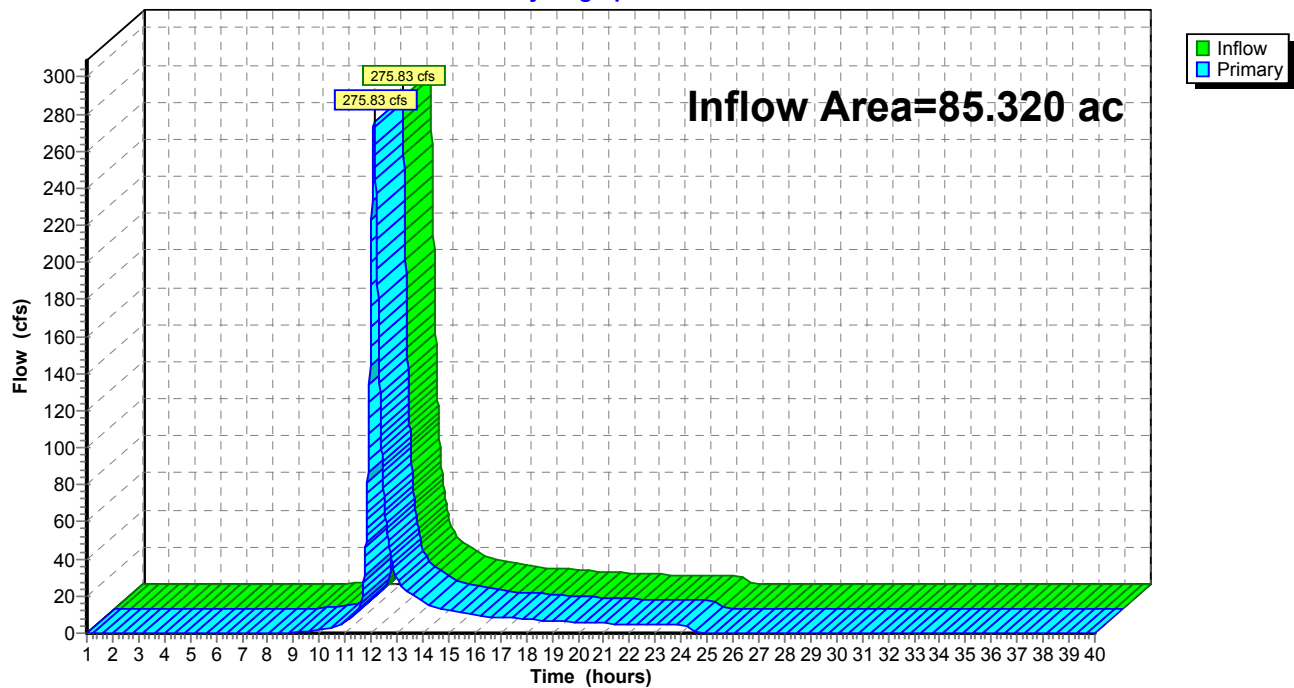
Pond 1P: (new Pond)

Inflow Area = 85.320 ac, Inflow Depth = 2.92" for 100-yr event
Inflow = 275.83 cfs @ 12.11 hrs, Volume= 20.743 af
Primary = 275.83 cfs @ 12.11 hrs, Volume= 20.743 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 1P: (new Pond)

Hydrograph



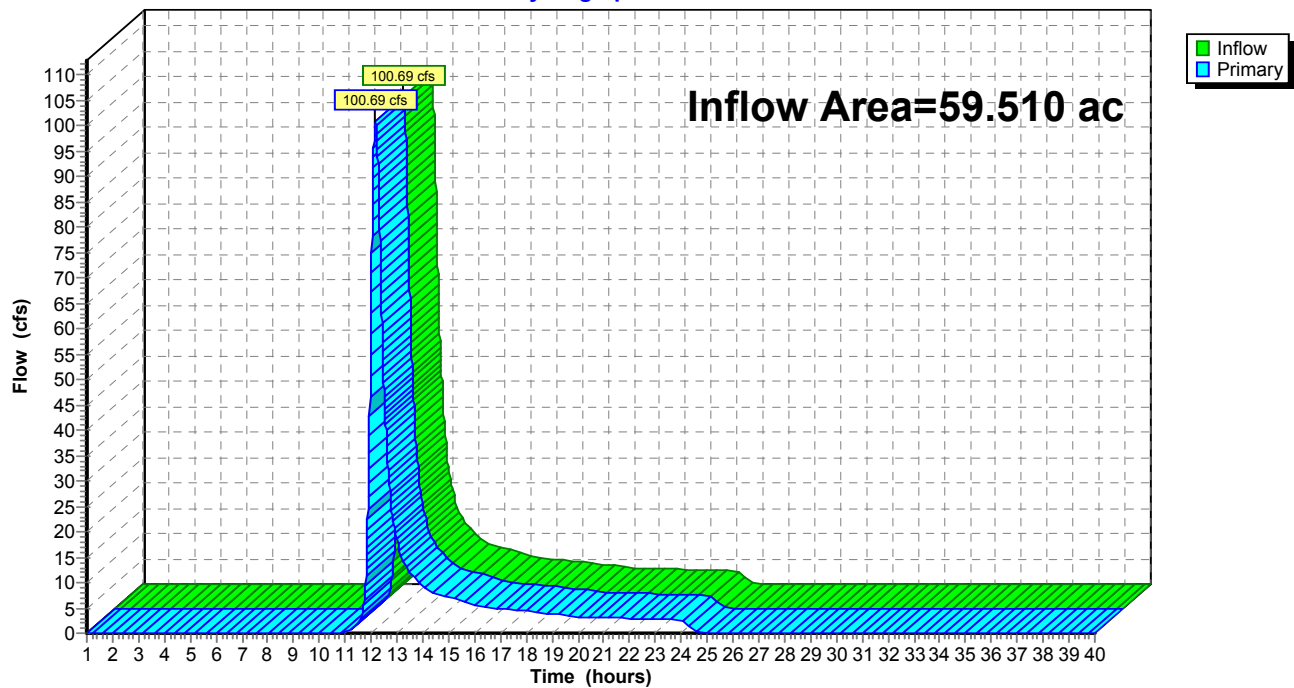
Pond 2P: (new Pond)

Inflow Area = 59.510 ac, Inflow Depth = 2.01" for 100-yr event
Inflow = 100.69 cfs @ 12.16 hrs, Volume= 9.976 af
Primary = 100.69 cfs @ 12.16 hrs, Volume= 9.976 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs

Pond 2P: (new Pond)

Hydrograph



Pond 3P: (new Pond)

Inflow Area = 47.571 ac, Inflow Depth = 2.42" for 100-yr event
 Inflow = 159.98 cfs @ 12.05 hrs, Volume= 9.611 af
 Outflow = 8.66 cfs @ 13.80 hrs, Volume= 8.277 af, Atten= 95%, Lag= 105.0 min
 Primary = 8.66 cfs @ 13.80 hrs, Volume= 8.277 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,069.02' @ 13.80 hrs Surf.Area= 238,474 sf Storage= 226,932 cf
 Plug-Flow detention time= 440.5 min calculated for 8.274 af (86% of inflow)
 Center-of-Mass det. time= 374.4 min (1,226.5 - 852.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,068.00'	4,623,972 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

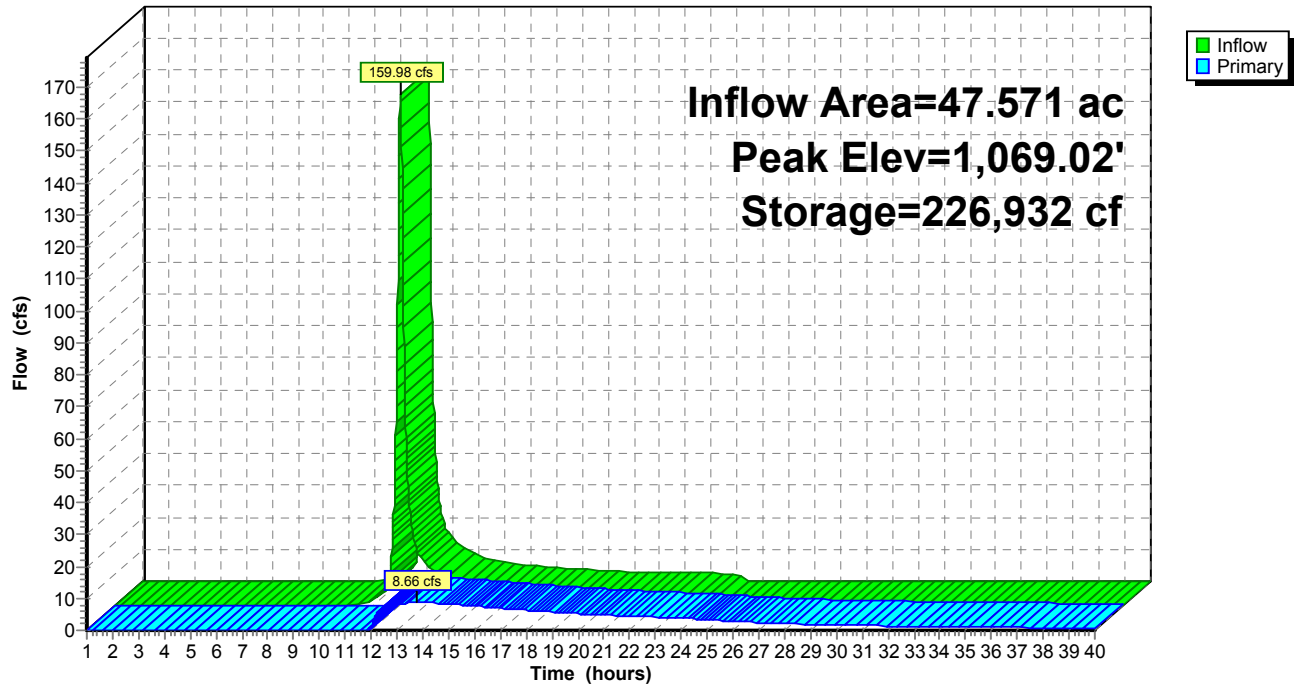
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,068.00	208,562	0	0
1,080.00	562,100	4,623,972	4,623,972

Device	Routing	Invert	Outlet Devices
#1	Primary	1,068.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 10.00 Width (feet) 1.00 40.00

Primary OutFlow Max=8.66 cfs @ 13.80 hrs HW=1,069.02' TW=980.49' (Dynamic Tailwater)
 ↑1=**Custom Weir/Orifice** (Weir Controls 8.66 cfs @ 2.9 fps)

Pond 3P: (new Pond)

Hydrograph



Pond 5P: (new Pond)

Inflow Area = 18.570 ac, Inflow Depth = 3.77" for 100-yr event
 Inflow = 131.50 cfs @ 11.95 hrs, Volume= 5.833 af
 Outflow = 132.60 cfs @ 11.95 hrs, Volume= 5.625 af, Atten= 0%, Lag= 0.1 min
 Primary = 132.60 cfs @ 11.95 hrs, Volume= 5.625 af

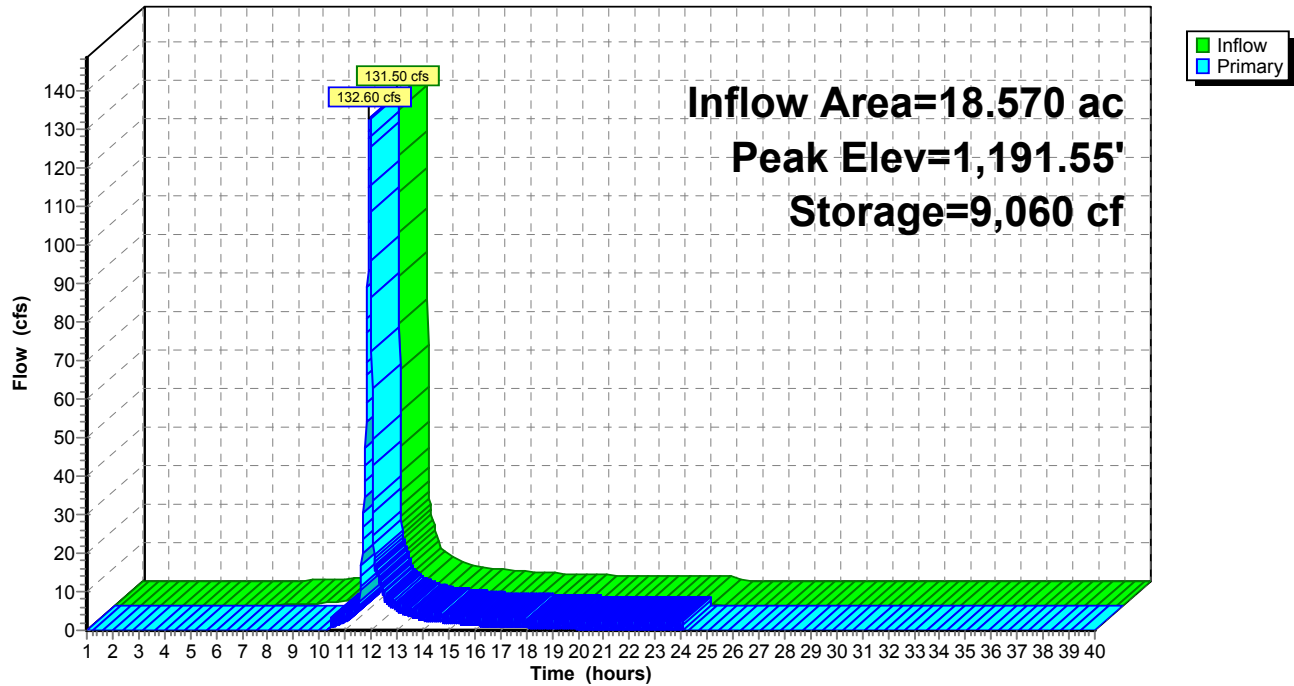
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,191.55' @ 11.95 hrs Surf.Area= 9,060 sf Storage= 9,060 cf
 Plug-Flow detention time= 30.2 min calculated for 5.625 af (96% of inflow)
 Center-of-Mass det. time= 9.3 min (820.3 - 811.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,107.00'	9,060 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,107.00	9,060	0	0
1,108.00	9,060	9,060	9,060

Device	Routing	Invert	Outlet Devices
#1	Primary	1,107.00'	Custom Weir/Orifice, C= 2.62 Head (feet) 0.00 1.00 Width (feet) 1.00 5.00

Primary OutFlow Max=132.29 cfs @ 11.95 hrs HW=1,191.27' TW=1,110.69' (Dynamic Tailwater)
 ↑1=Custom Weir/Orifice (Orifice Controls 132.29 cfs @ 44.1 fps)

Pond 5P: (new Pond)**Hydrograph**

Pond A10P: A10P

Inflow Area = 9.300 ac, Inflow Depth = 2.79" for 100-yr event
 Inflow = 45.13 cfs @ 11.98 hrs, Volume= 2.163 af
 Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.18' @ 24.40 hrs Surf.Area= 65,889 sf Storage= 94,216 cf
 Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

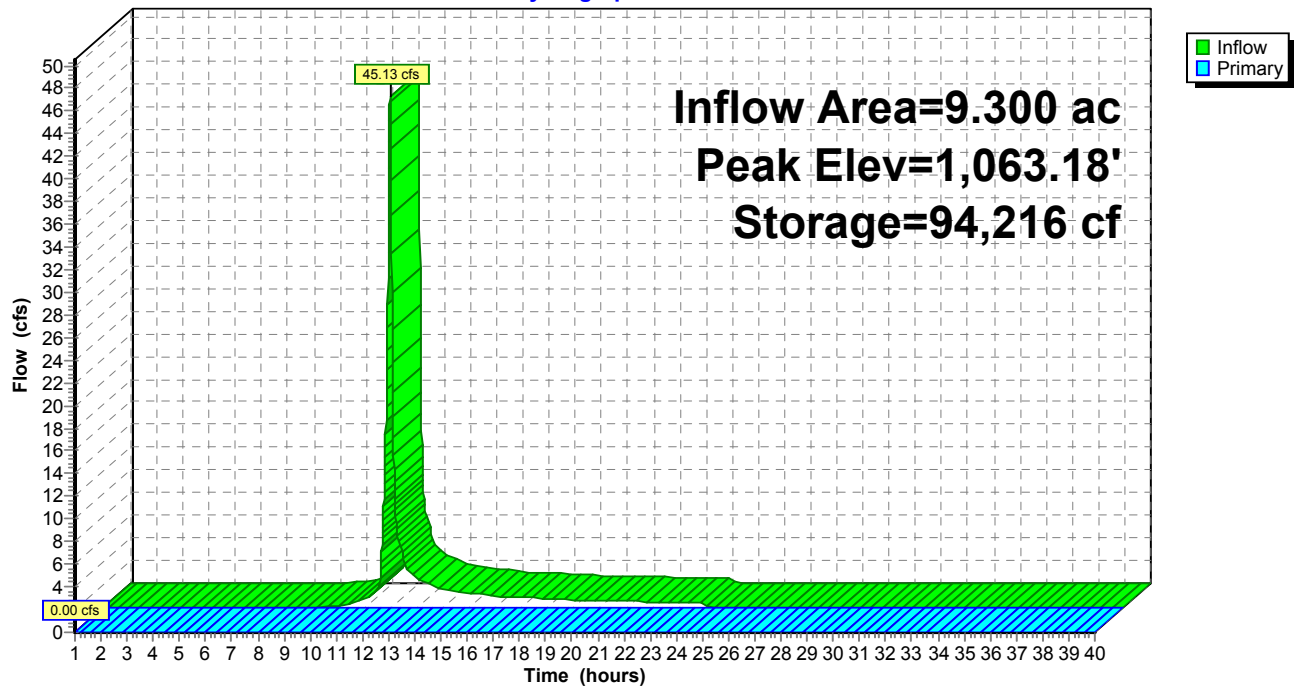
Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	640,000 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	60,000	0	0
1,070.00	100,000	640,000	640,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,070.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=1,062.00' TW=1,060.80' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond A10P: A10P**Hydrograph**

Pond A1P: WETLAND PONDS

Inflow Area = 36.474 ac, Inflow Depth = 2.61" for 100-yr event
 Inflow = 68.50 cfs @ 12.35 hrs, Volume= 7.920 af
 Outflow = 6.44 cfs @ 15.76 hrs, Volume= 6.808 af, Atten= 91%, Lag= 204.8 min
 Primary = 6.44 cfs @ 15.76 hrs, Volume= 6.808 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,094.47' @ 14.42 hrs Surf.Area= 110,425 sf Storage= 191,883 cf
 Plug-Flow detention time= 433.6 min calculated for 6.806 af (86% of inflow)
 Center-of-Mass det. time= 366.9 min (1,238.0 - 871.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,092.50'	243,750 cf	Custom Stage Data (Prismatic) Listed below

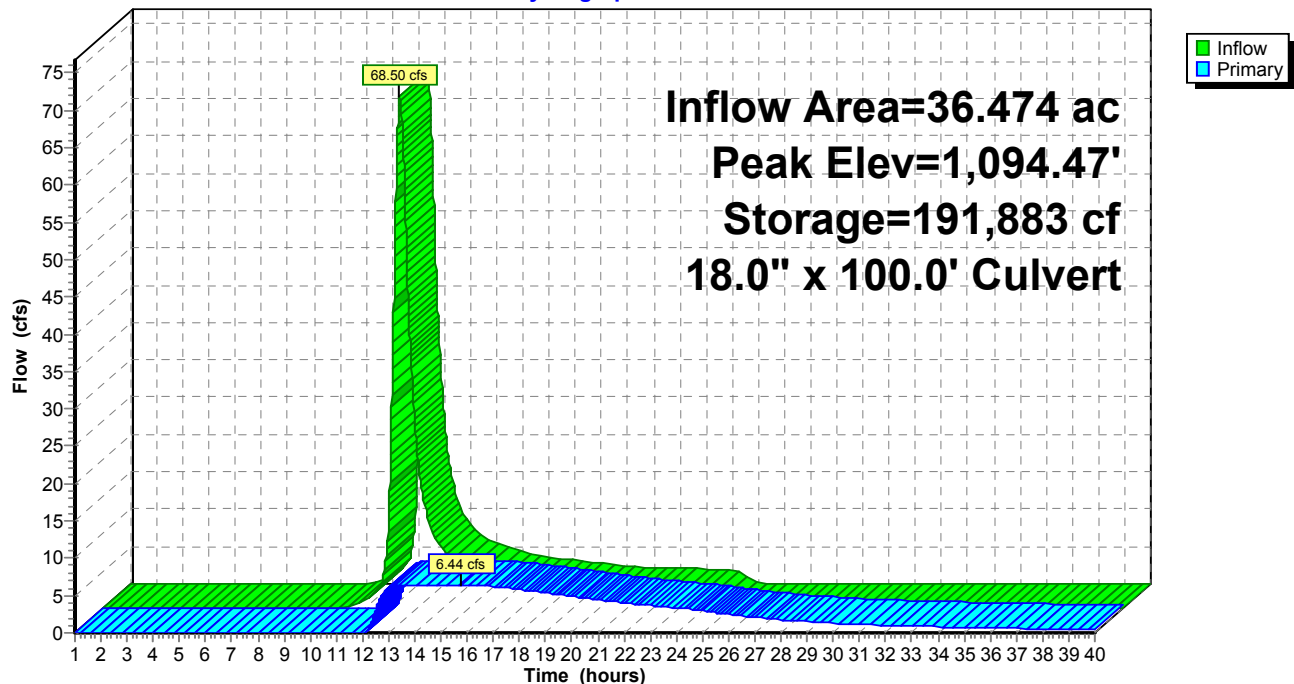
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,092.50	75,000	0	0
1,095.00	120,000	243,750	243,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,092.50'	18.0" x 100.0' long Culvert Ke= 0.700 Outlet Invert= 1,091.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=6.44 cfs @ 15.76 hrs HW=1,094.42' TW=1,092.91' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 6.44 cfs @ 3.7 fps)

Pond A1P: WETLAND PONDS

Hydrograph



Pond A4P: A4P

Inflow Area = 34.000 ac, Inflow Depth = 2.88" for 100-yr event
 Inflow = 75.89 cfs @ 12.32 hrs, Volume= 8.173 af
 Outflow = 4.06 cfs @ 16.17 hrs, Volume= 5.864 af, Atten= 95%, Lag= 231.2 min
 Primary = 4.06 cfs @ 16.17 hrs, Volume= 5.864 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,085.25' @ 16.17 hrs Surf.Area= 193,415 sf Storage= 231,310 cf
 Plug-Flow detention time= 624.1 min calculated for 5.864 af (72% of inflow)
 Center-of-Mass det. time= 521.0 min (1,382.1 - 861.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,084.00'	368,635 cf	Custom Stage Data (Prismatic) Listed below

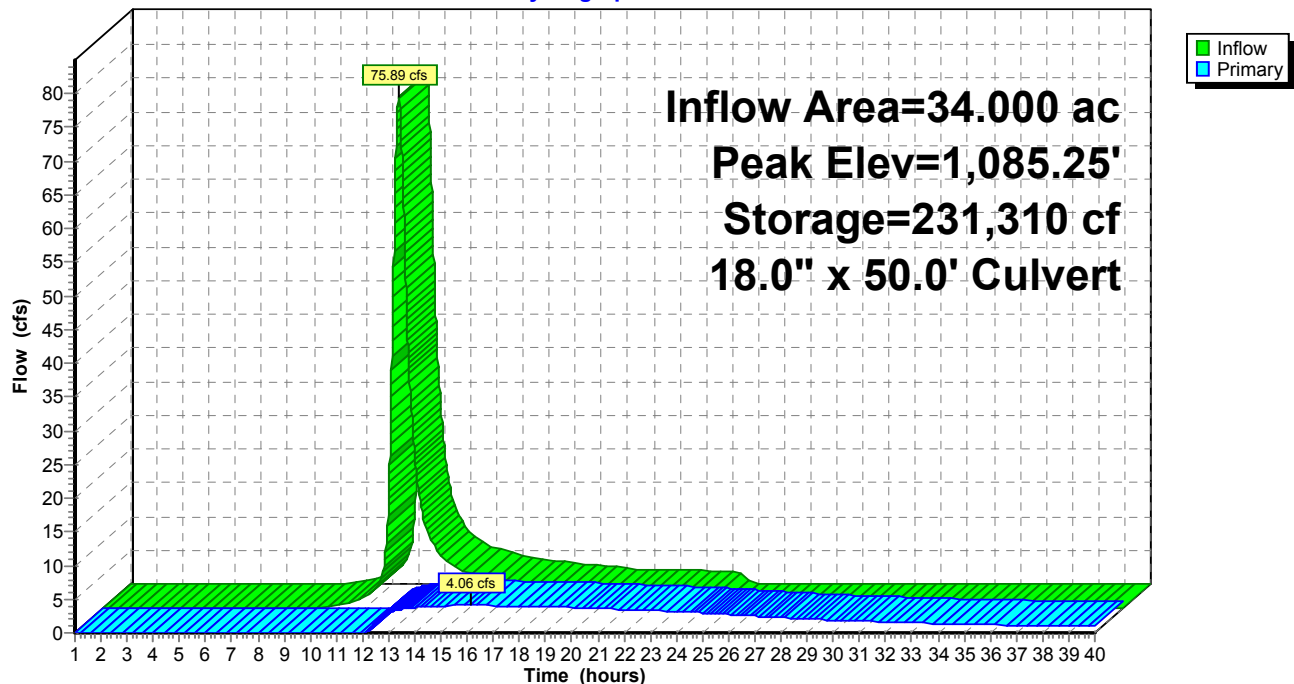
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,084.00	148,635	0	0
1,086.00	220,000	368,635	368,635

Device	Routing	Invert	Outlet Devices
#1	Primary	1,084.00'	18.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,083.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=4.06 cfs @ 16.17 hrs HW=1,085.25' TW=1,083.97' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 4.06 cfs @ 3.5 fps)

Pond A4P: A4P

Hydrograph



Pond B6P: WETPONDS

Inflow Area = 16.070 ac, Inflow Depth = 2.70" for 100-yr event
 Inflow = 69.43 cfs @ 12.01 hrs, Volume= 3.613 af
 Outflow = 1.00 cfs @ 11.56 hrs, Volume= 2.446 af, Atten= 99%, Lag= 0.0 min
 Discarded = 1.00 cfs @ 11.56 hrs, Volume= 2.446 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.84' @ 20.00 hrs Surf.Area= 39,102 sf Storage= 109,267 cf
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 670.5 min (1,512.1 - 841.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.00'	153,798 cf	Custom Stage Data (Prismatic) Listed below

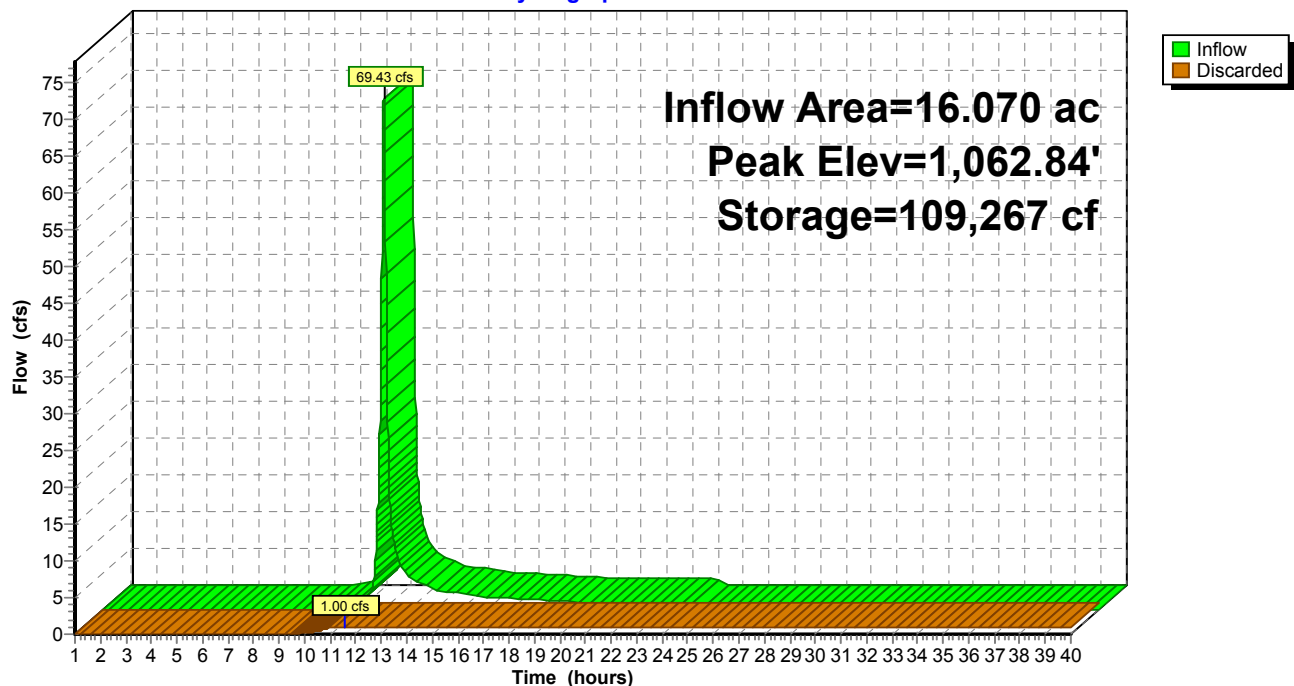
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,060.00	36,899	0	0
1,064.00	40,000	153,798	153,798

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	1.00 cfs Exfiltration at all elevations

Discarded OutFlow Max=1.00 cfs @ 11.56 hrs HW=1,060.04' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 1.00 cfs)

Pond B6P: WETPONDS

Hydrograph



Pond B7P: DRY POND

Inflow Area = 15.390 ac, Inflow Depth = 2.33" for 100-yr event
 Inflow = 26.60 cfs @ 12.33 hrs, Volume= 2.995 af
 Outflow = 16.89 cfs @ 12.61 hrs, Volume= 2.993 af, Atten= 36%, Lag= 16.9 min
 Primary = 16.89 cfs @ 12.61 hrs, Volume= 2.993 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.74' @ 12.61 hrs Surf.Area= 39,319 sf Storage= 29,867 cf
 Plug-Flow detention time= 50.7 min calculated for 2.992 af (100% of inflow)
 Center-of-Mass det. time= 50.5 min (926.2 - 875.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	81,000 cf	Custom Stage Data (Prismatic) Listed below

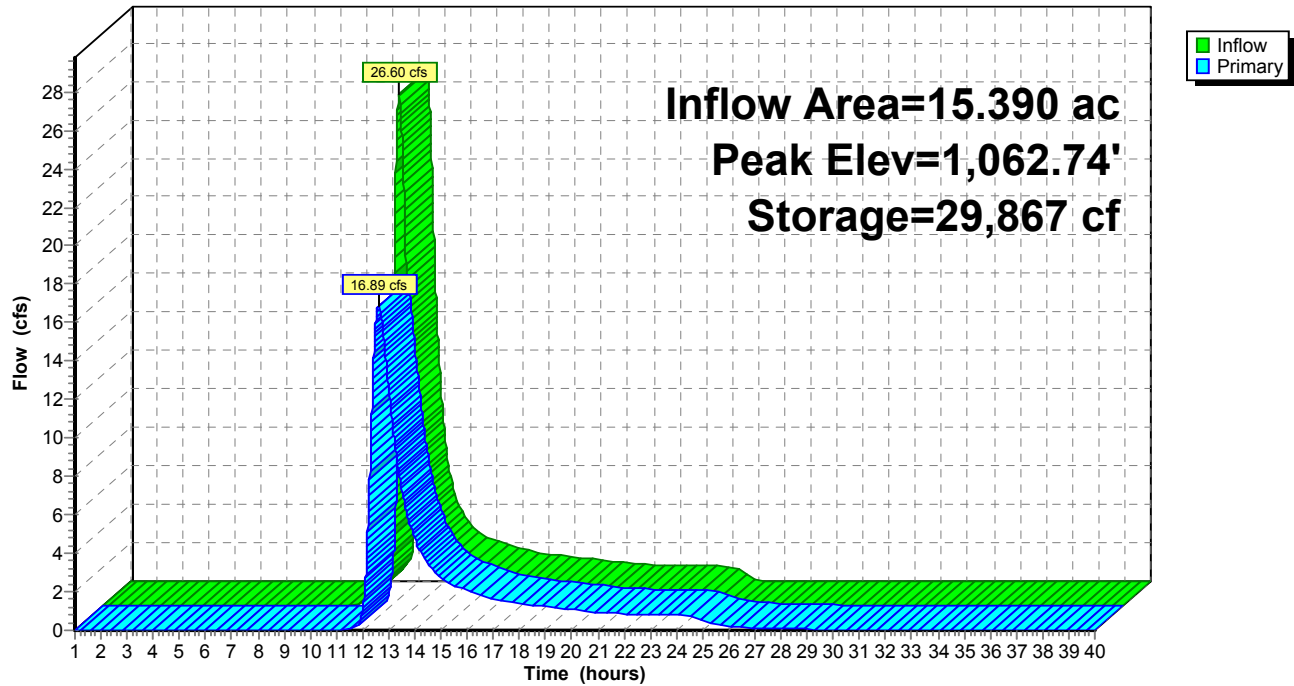
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,062.00	36,000	0	0
1,064.00	45,000	81,000	81,000

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=16.89 cfs @ 12.61 hrs HW=1,062.74' TW=1,060.92' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 16.89 cfs @ 2.3 fps)

Pond B7P: DRY POND

Hydrograph



Pond C4P: GOLF COURSE POND

Inflow Area = 20.070 ac, Inflow Depth = 2.33" for 100-yr event
 Inflow = 84.22 cfs @ 11.98 hrs, Volume= 3.905 af
 Outflow = 29.14 cfs @ 12.09 hrs, Volume= 3.902 af, Atten= 65%, Lag= 6.7 min
 Primary = 29.14 cfs @ 12.09 hrs, Volume= 3.902 af

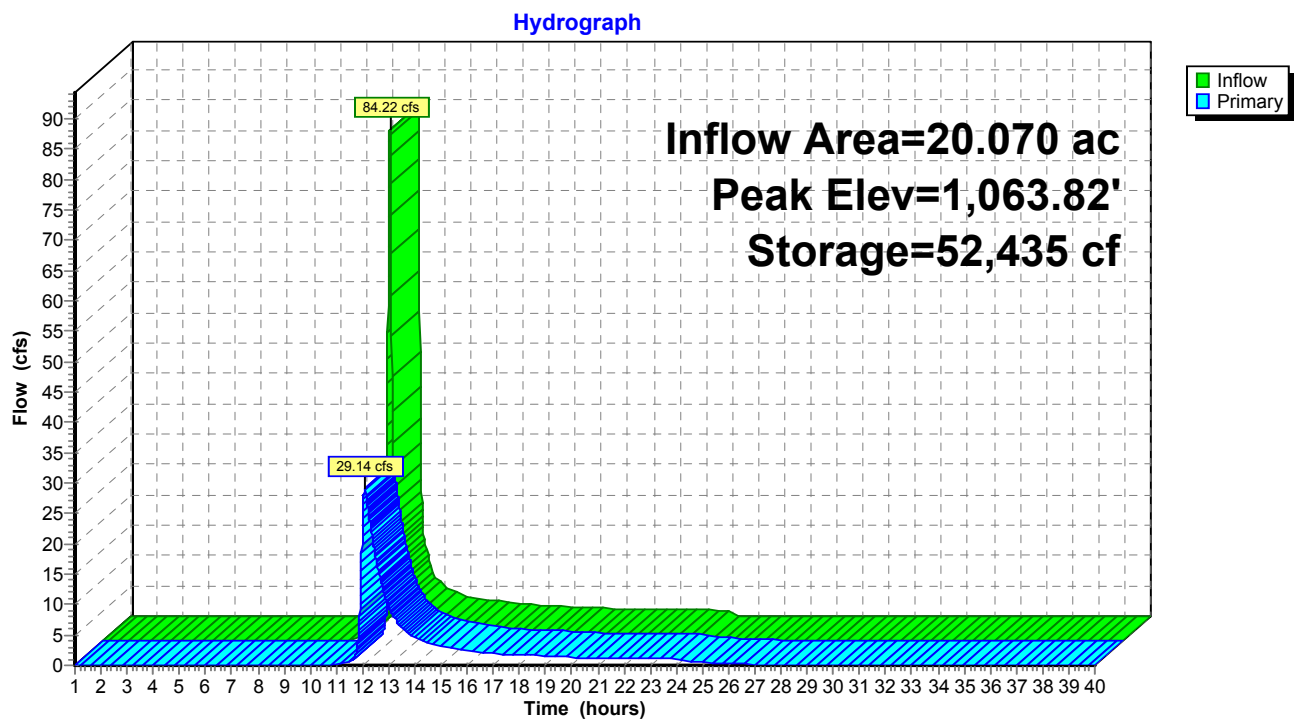
Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,063.82' @ 12.09 hrs Surf.Area= 72,407 sf Storage= 52,435 cf
 Plug-Flow detention time= 52.7 min calculated for 3.901 af (100% of inflow)
 Center-of-Mass det. time= 52.5 min (900.7 - 848.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,063.00'	147,275 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,063.00	53,600	0	0
1,063.50	65,000	29,650	29,650
1,064.00	76,500	35,375	65,025
1,065.00	88,000	82,250	147,275

Device	Routing	Invert	Outlet Devices
#1	Primary	1,063.00'	15.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=29.14 cfs @ 12.09 hrs HW=1,063.82' TW=1,059.85' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir** (Weir Controls 29.14 cfs @ 2.4 fps)

Pond C4P: GOLF COURSE POND

Pond C6P: GOLF COURSE POND

Inflow Area = 14.100 ac, Inflow Depth = 2.70" for 100-yr event
 Inflow = 70.04 cfs @ 11.97 hrs, Volume= 3.170 af
 Outflow = 8.99 cfs @ 12.27 hrs, Volume= 2.765 af, Atten= 87%, Lag= 18.2 min
 Primary = 8.99 cfs @ 12.27 hrs, Volume= 2.765 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,068.19' @ 12.27 hrs Surf.Area= 92,875 sf Storage= 60,546 cf
 Plug-Flow detention time= 196.9 min calculated for 2.765 af (87% of inflow)
 Center-of-Mass det. time= 134.8 min (973.0 - 838.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,067.50'	185,886 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,067.50	78,544	0	0
1,068.00	92,000	42,636	42,636
1,069.50	99,000	143,250	185,886

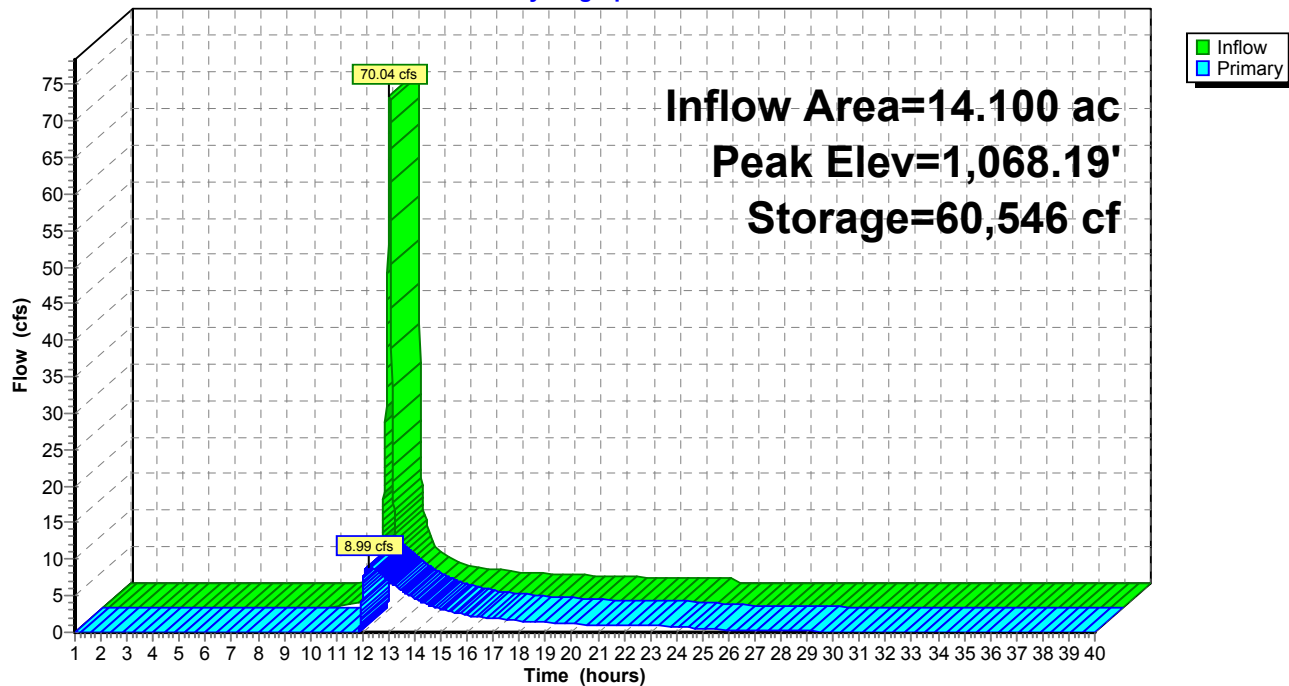
Device	Routing	Invert	Outlet Devices
#1	Primary	1,067.70'	10.0' long x 1.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.62 2.64 2.64 2.68 2.75 2.86 2.92 3.07 3.07 3.03 3.28 3.32

Primary OutFlow Max=8.99 cfs @ 12.27 hrs HW=1,068.19' TW=1,059.88' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 8.99 cfs @ 1.8 fps)

Pond C6P: GOLF COURSE POND

Hydrograph



Pond C7P: (new node)

Inflow Area = 14.790 ac, Inflow Depth = 3.18" for 100-yr event
 Inflow = 88.08 cfs @ 11.95 hrs, Volume= 3.923 af
 Outflow = 0.94 cfs @ 21.10 hrs, Volume= 1.752 af, Atten= 99%, Lag= 549.1 min
 Primary = 0.94 cfs @ 21.10 hrs, Volume= 1.752 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,062.65' @ 21.10 hrs Surf.Area= 4.487 ac Storage= 3.082 af
 Plug-Flow detention time= 796.3 min calculated for 1.752 af (45% of inflow)
 Center-of-Mass det. time= 673.9 min (1,498.8 - 824.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,062.00'	9.500 af	Custom Stage Data (Prismatic) Listed below

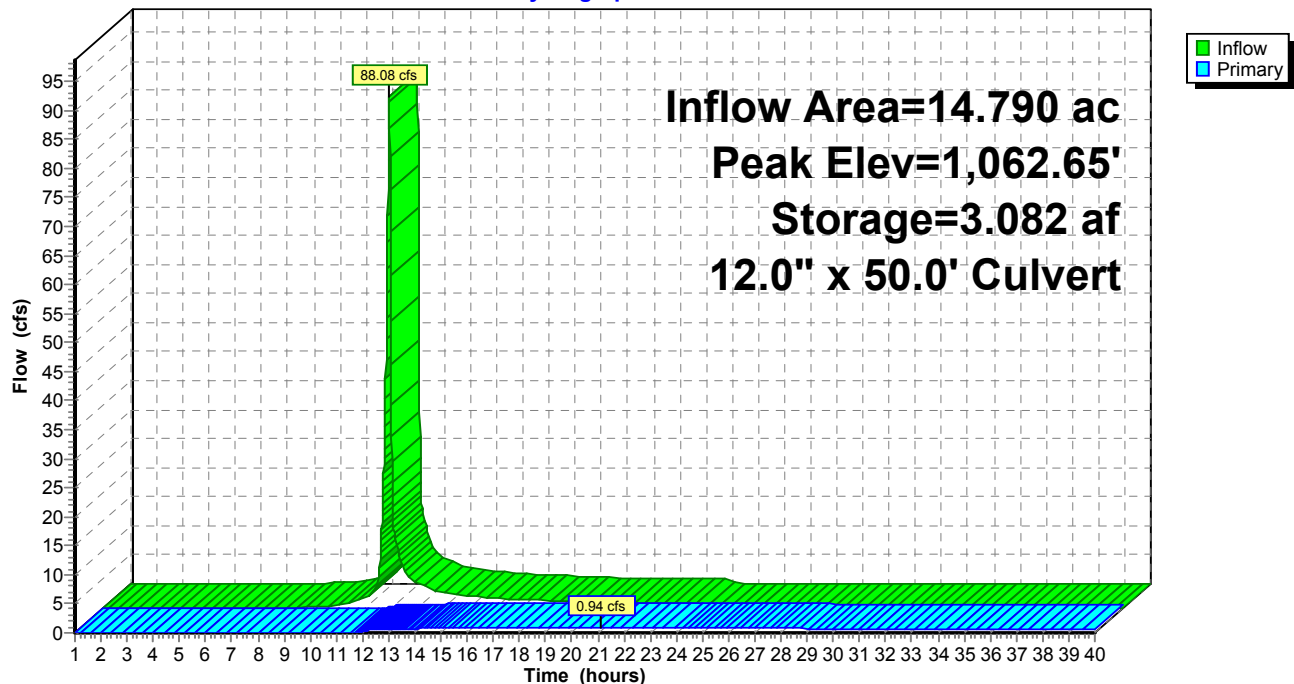
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,062.00	4.000	0.000	0.000
1,064.00	5.500	9.500	9.500

Device	Routing	Invert	Outlet Devices
#1	Primary	1,062.00'	12.0" x 50.0' long Culvert Ke= 0.500 Outlet Invert= 1,061.50' S= 0.0100 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=0.94 cfs @ 21.10 hrs HW=1,062.65' TW=1,060.18' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 0.94 cfs @ 2.5 fps)

Pond C7P: (new node)

Hydrograph



Pond North Twin Lake: NORTH TWIN LAKE

Inflow Area = 570.115 ac, Inflow Depth > 1.22" for 100-yr event
 Inflow = 361.43 cfs @ 12.01 hrs, Volume= 58.074 af
 Outflow = 5.52 cfs @ 33.84 hrs, Volume= 12.658 af, Atten= 98%, Lag= 1,310.0 min
 Primary = 5.52 cfs @ 33.84 hrs, Volume= 12.658 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,061.12' @ 33.84 hrs Surf.Area= 143.224 ac Storage= 45.896 af
 Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 471.0 min (1,543.9 - 1,072.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	172.740 af	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	142.400	0.000	0.000
1,062.00	145.500	172.740	172.740

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	30.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.60' S= 0.0040 '/' Cc= 0.900 n= 0.024
#2	Primary	1,062.80'	100.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

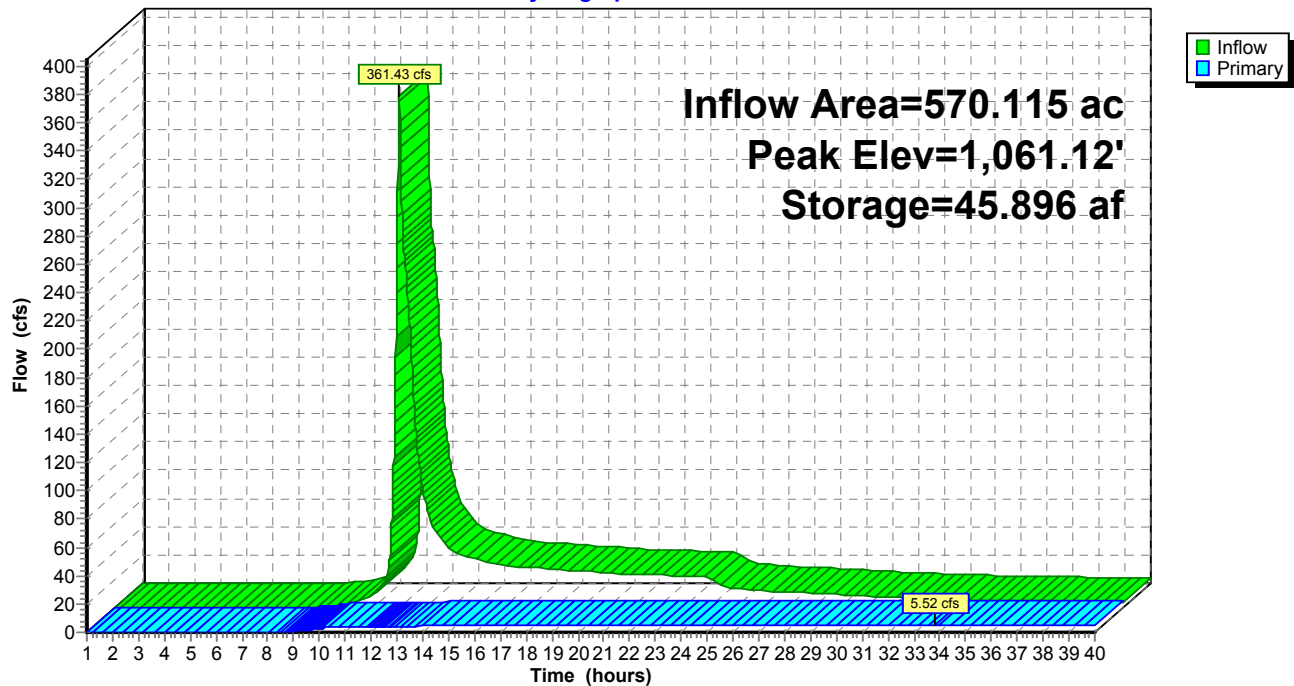
Primary OutFlow Max=5.52 cfs @ 33.84 hrs HW=1,061.12' TW=1,060.28' (Dynamic Tailwater)

1=Culvert (Barrel Controls 5.52 cfs @ 3.1 fps)

2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond North Twin Lake: NORTH TWIN LAKE

Hydrograph



Pond PIKE: PIKE LAKE

Inflow Area = 400.735 ac, Inflow Depth > 2.29" for 100-yr event
 Inflow = 723.60 cfs @ 12.03 hrs, Volume= 76.418 af
 Outflow = 14.32 cfs @ 20.65 hrs, Volume= 22.146 af, Atten= 98%, Lag= 517.5 min
 Primary = 14.32 cfs @ 20.65 hrs, Volume= 22.146 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,061.14' @ 24.30 hrs Surf.Area= 170.202 ac Storage= 57.831 af
 Plug-Flow detention time= 713.2 min calculated for 22.140 af (29% of inflow)
 Center-of-Mass det. time= 461.0 min (1,428.8 - 967.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,060.80'	205.080 af	Custom Stage Data (Prismatic) Listed below

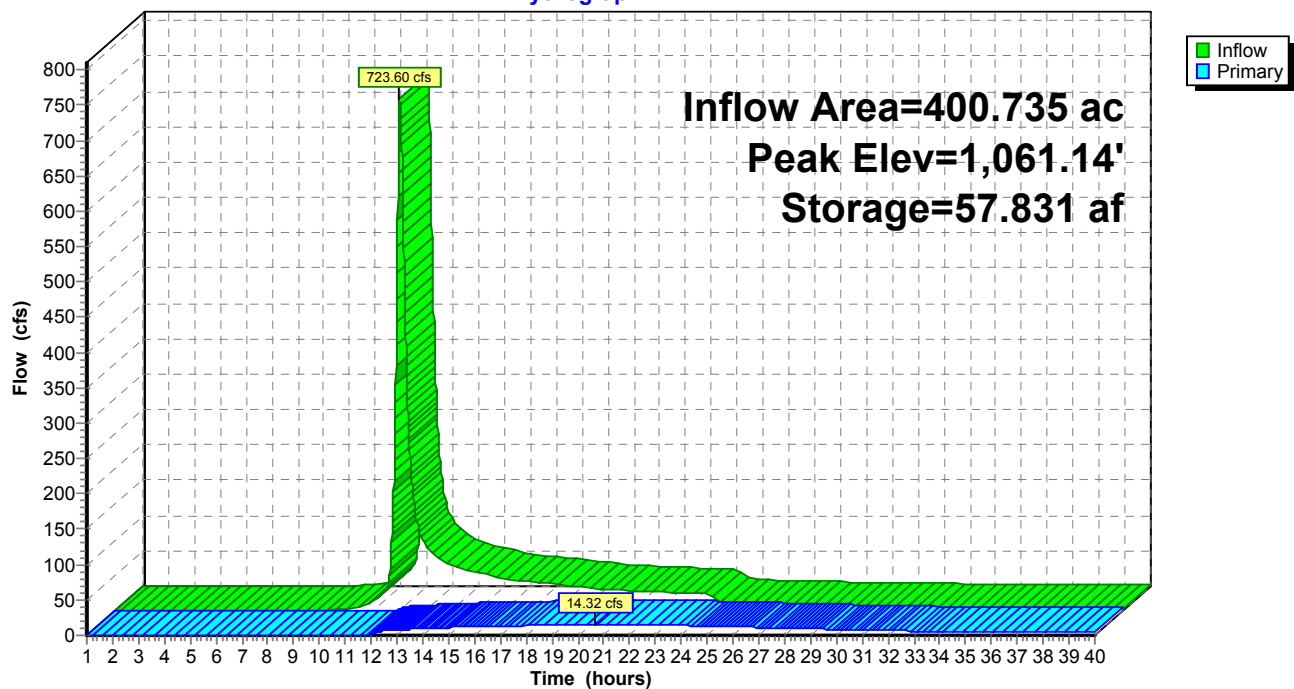
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,060.80	169.300	0.000	0.000
1,062.00	172.500	205.080	205.080

Device	Routing	Invert	Outlet Devices
#1	Primary	1,060.80'	50.0' long x 1.2' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.66 2.69 2.71 2.78 2.89 2.99 3.09 3.20 3.21 3.19 3.30 3.32

Primary OutFlow Max=14.32 cfs @ 20.65 hrs HW=1,061.12' TW=1,061.06' (Dynamic Tailwater)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 14.32 cfs @ 0.9 fps)

Pond PIKE: PIKE LAKE

Hydrograph



Pond South Twin Lake: SOUTH TWIN LAKE

Inflow Area = 693.705 ac, Inflow Depth > 0.74" for 100-yr event
 Inflow = 155.67 cfs @ 12.12 hrs, Volume= 42.962 af
 Outflow = 1.04 cfs @ 40.00 hrs, Volume= 1.543 af, Atten= 99%, Lag= 1,672.6 min
 Primary = 1.04 cfs @ 40.00 hrs, Volume= 1.543 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.01 hrs
 Peak Elev= 1,060.32' @ 40.00 hrs Surf.Area= 77.287 ac Storage= 41.417 af
 Plug-Flow detention time= 1,120.9 min calculated for 1.543 af (4% of inflow)
 Center-of-Mass det. time= 649.4 min (1,752.4 - 1,103.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,059.80'	321.440 af	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
1,059.80	76.220	0.000	0.000
1,063.80	84.500	321.440	321.440

Device	Routing	Invert	Outlet Devices
#1	Primary	1,059.80'	36.0" x 50.0' long Culvert Ke= 0.700 Outlet Invert= 1,059.50' S= 0.0060 '/' Cc= 0.900 n= 0.024

Primary OutFlow Max=1.04 cfs @ 40.00 hrs HW=1,060.32' TW=0.00' (Dynamic Tailwater)
 ↑ **1=Culvert** (Barrel Controls 1.04 cfs @ 1.9 fps)

Pond South Twin Lake: SOUTH TWIN LAKE

Hydrograph

