Hollydale Development

Plymouth, Minnesota

STORMWATER MANAGEMENT PLAN

July 2020

AE2S Project #: *P12623-2019-042*

Hollydale Development

STORMWATER MANAGEMENT PLAN

July 2020

I hereby certify that this report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

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1.0 INTRODUCTION AND BACKGROUND

1.1 Project Background

The Hollydale Golf Course is an approximately 158.1± acre parcel to be developed within the city limits of Plymouth, Minnesota. It is located southwest of the intersection of Schmidt Lake Road and Vicksburg Lane North (see ***Figure 1*** for site location map).

This plan, prepared by Advanced Engineering and Environmental Services, Inc. (AE2S) is to document the basis of the storm water management design for the development to meet the storm water management requirements.

1.2 Data Used

The following data were used in this analysis:

- NRCS Soil Survey
- Aerial Imagery (MnGeo WMS Service, 2018 7-county)
- Existing Topography (MnDNR, MnTOPO, 2013)
- Hollydale Development Plans (Sathre-Bergquist, June 2020)
- NOAA Atlas-14 Precipitation Data

2.0 STORMWATER MANAGEMENT REQUIREMENTS

2.1 City of Plymouth

The City of Plymouth developed an updated surface water management plan in 2018 that was designed to conform to the goals of the water management organizations that have jurisdiction within the City. This development falls within the jurisdiction of the Bassett Creek Watershed Management Commission (BCWMO). Hydrologically, a small portion of the development along the north end drains to Elm Creek Watershed, but Elm Creek Watershed Management Commission (ECWMO) deferred to BCWMO's rules and overall permitting responsibility based on initial discussions with District staff, therefore the project has been designed to meet BCWMO standards. These rules used to design this stormwater management plan are described in the following section.

2.2 Bassett Creek Watershed Management Commission

As previously described, the site is within the Bassett Creek WMC watershed management area. The following list summarizes the relevant stormwater management Rules and Standards.

- The proposed activity / development shall not exceed peak runoff rates for the 2-, 10-, and 100-year critical storm events. These storm events shall follow the NOAA Atlas 14 precipitation intensities and distributions.
- The 100-year pond high water level (HWL) shall be at least 2-ft below the lowest structure floor elevation and a minimum 1.5-ft above the emergency overflow (EOF) elevation of nearby waterbodies and stormwater ponds.
- An overflow spillway must be sized to convey a 100-year event.
- Low structure floor elevation shall be at least 2-ft above the 100-year HWL of the floodplain that the site discharges into. This elevation shall be determined by the most recent FIRM within the site region.
- Pond outlet structures must provide skimming to prevent release of floatables and oils for at least the 2-year storm event.
- Stormwater runoff volume must be infiltrated or abstracted onsite in the amount equal to 1.1 inches of runoff generated from new impervious surface within 48 hours.
    - If the 1.1 inches performance goal is not met, a 0.55 inch performance and a 75% annual total phosphorus removal goal is set instead.
    - Where infiltration is not advisable or infeasible due to site conditions, biofiltration must be provided for that part of the abstraction volume that is not abstracted by other BMPs. Where biofiltration is infeasible, at a minimum filtration through a medium that incorporates organic material, iron fillings, or other material to reduce soluble phosphorus must be provided.
    - The bottom of the filtration media must be at least 3 feet above the groundwater elevation.

- There shall be no net increase in total phosphorus (TP) or total suspended solids (TSS) from the pre-development land cover to the post-development land cover.

2.3 Minnesota Pollution Control Agency

The Minnesota Pollution Control Agency (MPCA) regulates stormwater runoff by administering the National Pollution Discharge Elimination System (NPDES) Permit. The NPDES Permit is required for any projects that disturb more than one (1.0) acre of area. The permanent stormwater management requirements of the Permit are triggered if the project proposes to increase the impervious surface area by more than one acre.

The overall project disturbance is over one acre; therefore, a Stormwater Pollution Prevention Plan (SWPPP) will need to be prepared and a NPDES Permit obtained through the MPCA. The proposed BMP(s) must be capable of retaining on site one (1) inch of runoff from the new impervious surfaces created by the project. If onsite retention is not possible based on contaminated soils, proximity to groundwater, bedrock depth or impermeable soils, the water quality volume shall be treated using other best management practices outlined in the Permit.

3.0 METHODOLOGY

3.1 Hydrology

The site was analyzed using HydroCAD for pre- and post-development conditions. Runoff generation was estimated using TR-20 methodology.

The NOAA Atlas 14 rainfall depths and nested distributions were used for the analysis. Runoff from pervious and impervious areas was calculated separately. ***Table 3.1*** summarizes the rainfall depths that were used in the peak discharge analysis.

Table 3.1 Summary of NOAA Atlas 14 Rainfall Depths (inches)

Rainfall Duration	2-Year	10-Year	100-Year
24-Hours	2.87	4.27	7.32

Time of concentration (Tc) for existing conditions was calculated using the TR-55 methodology. For developed subwatersheds, Tc was set to 12 minutes. For subwatersheds containing areas unaltered by development, Tc was calculated using TR-55 methodology. A minimum Tc of 12.0 is based on ~30 feet of sheet flow for the yards as well as in accordance with the City's Engineering Guidelines noting a minimum Tc of 10-20 minutes for lateral pipes which serve developed residential areas.

Curve numbers were selected for each subwatershed based on the land use, soil conditions and impervious surface area. These parameters were used to select the appropriate CN using TR-55 methodology.

3.2 Hydraulics

Hydraulic routing within HydroCAD was computed using the dynamic-storage-indication methodology. Stormwater ponds were modeled with multi-stage outlets.

The stormwater basins were sized to have at least 2.0 feet of freeboard from the lowest structure opening for the 100-year rainfall event. In addition, the emergency overflow invert elevation was set to provide at least 1.5 feet of freeboard above the lowest structure opening from any area where surface water is impounded during a flood event.

3.3 Water Quality

Water quality analysis was conducted using Ramsey Washington Metro Watershed District (RWMWD) Stormwater Reuse Spreadsheet designed for determining water quality credit for stormwater reuse.

4.0 ANALYSIS AND RESULTS

4.1 Existing Conditions

4.1.1 Site Topography

Currently the majority of the site is managed grass and open space, with sloping topography with elevations between 1020± feet and 966± feet. A large wetland is located at the southeast section of the site and extends further south. This wetland (wetland 6) was taken to be the hydraulic boundary for the project as any water that flows to this wetland is effectively running offsite. Neighboring residential homes from all sides drain into the site. These offsite areas were included in the existing conditions analysis.

The majority of the site drains directly to the large southeast wetland which is connected to storm sewer running east within Bassett Creek Watershed. The northeast corner of the site drains north within Elm Creek Watershed. ***Figure 2*** shows the existing conditions including delineated wetland areas, subcatchment areas, time of concentration paths, existing topography, and aerial imagery.

4.1.2 Soils

The NRCS soils database classifies the on-site soils as Minnetonka silty clay loam, Lester loam, Angus loam, and Shorewood silty clay loam soils. See ***Appendix B*** for the Web Soil Survey. Soils are predominantly Hydrologic Soil Group (HSG) Type C and C/D.

4.1.3 Land Use

Existing subcatchments were delineated based on existing topography (MnTOPO). Weighted curve numbers were computed based on land use and NRCS hydrologic soil groups and are summarized in ***Table 4.1***. Soils with C/D HSG were modeled as Type C. Note that the total area does not reflect the parcel area due to the exclusion of the large wetland to the south.

Table 4.1 Summary of Existing CN Values

CN Description	Assumptions	CN	Total Area (ac)	% of Total
Grass	>75% Cover, Good, A soils	39	5.7	4.2%
Grass	>75% Cover, Good, B soils	61	9.9	7.2%
Grass	>75% Cover, Good, C soils	74	105.4	77.1%
Impervious	Impervious	98	5.2	3.8%
Woods	Fair, B soils	60	0.5	0.4%
Woods	Fair, C soils	73	8.8	6.4%
Wetlands	Nearly saturated	98	1.1	0.8%
Dirt	Dirt roads, C soils	87	0.1	0.1%
		Total	**136.7**	**100%**

Table 4.2 Existing Subcatchment Parameters

Subcatchment	Composite CN	Total Area (ac)	Tc (min)
EX_1	72	118.6	33.3
EX_2	75	7.7	24.5
EX_3	81	5.6	42.7
EX_4	80	3.6	18.1
EX_5	74	0.4	15.5
EX_6	77	0.2	10.3
EX_7	89	0.7	16.4
	Total	**136.7**	**-**

4.2 Proposed Conditions

4.2.1 Site Topography

The proposed lots will be graded to drain as much impervious surface as possible to a stormwater pond where the water will be reused for irrigation. Remaining pervious and impervious will be routed to five other stormwater ponds, which route to one another before ultimately discharging to the large wetland to the south (except for one of the ponds, which drains northwest to another existing wetland). Offsite contributing areas around the site flow to multiple destinations: proposed ponds, the large south wetland, and the other wetland on the northeast corner of the site. See ***Figure 3*** for details.

4.2.2 Soils & Land Use

The proposed soil types are the same as the existing which were described in section ***4.1.2 Soils***. The site will be developed as residential lots, with new impervious areas including roads, sidewalks, and buildings. Weighted CN values for each subwatershed were derived based on the following CN values provided in ***Table 4.3***. Proposed impervious area was delineated based on the proposed layout plan. The parcel being developed is approximately 158.1 acres (without offsite areas included), of which 31.7 acres (20%) is new impervious. Again, note that the total area does not reflect the parcel area due to the exclusion of the large wetland to the south.

Table 4.3 Summary of Proposed CN Values

CN Description	Assumptions	CN	Total Area (ac)	% of Total
Grass	>75% Cover, Good, A soils	39	2.7	2.0%
Grass	>75% Cover, Good, B soils	61	6.2	4.5%
Grass	>75% Cover, Good, C soils	79	81.3	59.5%
Impervious	Impervious	98	34.2	25.1%
Woods	Fair, HSG C Soils	73	3.3	2.4%
Pond	Existing Wetland/Pond	98	9.0	6.6%
		Total	**136.7**	**100%**

Proposed subcatchments were delineated based on proposed grading and storm sewer routing. ***Table 4.4*** summarizes proposed subcatchment runoff parameters. ***Figure 3*** shows the proposed site grading, storm sewer and subcatchments.

Table 4.4 Proposed Subcatchment Parameters

Subcatchment	Composite CN	Impervious Area (ac)(1)	Total Area (ac)	Tc (min)(2)
1N	81	1.47	4.8	12.0
1N_100	79	0.13	0.5	14.8
W9	77	0.22	1.8	12.0
W9_100	79	0.55	2.5	34.0
E18	76	0.17	1.7	12.0
E17	79	0.20	1.0	12.0
E16	80	0.36	1.4	12.0
E15	80	0.52	1.9	12.0
E13	80	0.25	1.0	12.0
D8	76	0.10	1.2	12.0
W9_101	86	0.27	0.5	16.4
D7	77	0.06	0.5	12.0
D7_100	87	0.04	0.1	12.0
D6	75	0.01	0.4	12.0
F8	78	0.31	1.9	12.0
F7	77	0.08	0.7	12.0
F6	79	0.19	0.9	12.0
F5	79	0.26	1.2	12.0
H7	72	0.23	1.2	12.0
H6	70	0.20	1.0	12.0
H5	77	0.59	2.2	12.0
I9	81	0.07	0.3	12.0
I8	80	0.25	1.0	12.0
I8_100	80	0.04	0.2	12.0
I7	80	0.19	0.8	12.0
I7_100	76	0.03	0.5	12.0

Subcatchment	Composite CN	Impervious Area (ac)[1]	Total Area (ac)	Tc (min)[2]
J5	78	0.12	0.7	12.0
J4	74	0.00	0.3	12.0
J3	79	0.30	1.5	12.0
A9	79	0.15	0.7	12.0
A15	80	0.17	0.7	12.0
A15_100	98	0.03	0.0	12.0
A10	79	0.19	0.8	12.0
A10_100	98	0.03	0.0	12.0
B8	78	0.20	1.1	12.0
B8_100	96	0.03	0.0	12.0
B5	75	0.04	0.5	12.0
C6	74	0.01	0.8	12.0
B6	76	0.14	1.5	12.0
W6_102	74	0.00	0.3	15.5
B7	76	0.08	0.8	12.0
B7_100	81	0.06	0.2	12.0
C10	75	0.04	1.3	12.0
C10_100	88	0.33	0.5	12.0
C7	74	0.02	1.1	12.0
C7_100	89	0.17	0.3	13.8
C8	76	0.14	1.5	12.0
C8_100	89	0.30	0.5	13.8
C9	76	0.13	1.8	12.0
C9_100	90	0.20	0.3	12.0
L10	78	0.20	1.1	12.0
L9	79	0.21	1.0	12.0
L8	77	0.32	1.4	12.0
L7	79	0.16	0.8	12.0
L6	79	0.22	1.1	12.0
3S	85	4.28	9.6	12.0
3S_100	91	0.35	0.5	12.0
2S	86	2.07	4.1	12.0
1S	84	6.86	13.9	12.0
W6	76	1.01	10.1	27.0
W6_100	73	0.0	0.2	42.4
W6_101	77	0.30	2.3	19.1
O10	78	0.09	0.6	12.0
O9	79	0.23	1.1	12.0
4S	79	3.16	9.0	12.0
5S	82	13.47	28.3	12.0
5S_100	85	0.13	0.3	12.0

Subcatchment	Composite CN	Impervious Area (ac)(1)	Total Area (ac)	Tc (min)(2)
L5	79	0.17	0.8	12.0
L4	79	0.03	0.2	12.0
D9	78	0.20	1.3	12.0
A8	77	0.01	0.1	12.0
O8	77	0.06	0.5	12.0
1000	83	0.01	0.0	12.3
	Total	**43.2**	**136.7**	-

(1) Includes all new and existing impervious areas, as well as pond surface area

(2) Where Tc = 12 min, average value based on urban drainage;~30 feet of sheet flow, gutter flow and pipe flow

4.3 Basin Summary and Routing

There are six onsite stormwater ponds to provide treatment for runoff from the site. ***Table 4.5*** summarizes the performance of the stormwater ponds and backyard catch basins including 100-year HWL's and freeboard from the lowest nearby structure. The ponds were designed to provide at least 2.0 feet of freeboard from the lowest structure opening during the 100-year event. Additionally, the pond's EOF's were designed to provide at least 1.5 feet of freeboard from the lowest structure opening during the 100-year event. The EOF summary is provided in ***Table 4.6***.

Table 4.5 Stormwater Basin and Backyard Catch Basin Performance

Location	NWL/Top of Casting	100-Year HWL	Lowest Nearby Structure Elev.	Freeboard (ft)
Pond 1N	1009.5	1010.8	1015.1	4.3
Pond 1S	967.0	970.7	973.6	2.9
Pond 2S	969.0	971.9	978.3	5.9
Pond 3S	973.0	976.1	980.1	4.0
Pond 4S	967.5	971.3	973.6	2.3
Pond 5S	978.0	981.4	984.6	3.2
Wetland 9	1009.0	1010.5	1013.7	3.2
CB_E18	1008.0	1008.6	1010.6	2.0
CB_E17	1002.0	1002.4	1007.8	5.4
CB_E16	996.0	996.6	1001.1	4.5
CB_E15	992.0	992.7	997.0	4.3
CB_E13	1004.0	1004.4	1007.6	3.2
CB_D8	1002.0	1002.5	1005.6	3.1
CB_D7	1002.0	1002.3	1005.6	3.3
CB_D6	1000.0	1000.2	1004.6	4.4
CB_F8	989.0	989.7	993.1	3.4
CB_F7	986.5	986.8	993.1	6.3
CB_F6	986.0	986.3	991.6	5.3
CB_F5	983.0	983.6	988.6	5.0

CB_H7	974.0	974.4	977.6	3.2
CB_H6	973.0	973.4	976.6	3.0
CB_H5	972.0	972.7	977.6	4.9
CB_I9	978.0	978.2	980.6	2.4
CB_I8	987.0	987.5	990.1	2.6
CB_I7	985.0	985.5	989.0	3.5
CB_J5	997.0	997.3	100.4	3.1
CB_J4	994.0	994.2	1000.4	6.2
CB_J3	991.0	991.6	994.4	2.8
CB_A9	1002	1002.3	1005.1	2.8
CB_A15	998.0	998.3	1001.6	3.3
CB_A10	996.0	996.5	1001.1	4.6
CB_B8	995.5	996.0	998.6	2.6
CB_B5	996.0	996.3	998.6	2.3
CB_C6	993.0	993.4	997.5	4.1
CB_B6	994.0	994.6	998.6	4.0
CB_B7	998.0	998.3	1004.0(1)	5.7
CB_C10	994.0	994.7	999.1	4.4
CB_C7	993.0	993.5	997.5	4.0
CB_C8	991.0	991.7	996.5	4.8
CB_C9	992.0	992.7	996.6	3.9
CB_L10	988.0	988.5	992.1	3.6
CB_L9	982.0	982.4	985.6	3.2
CB_L8	980.0	980.5	983.6	3.1
CB_L7	979.0	979.4	983.1	3.7
CB_L6	978.0	978.3	981.1	2.8
CB_O10	978.0	978.6	982.6	4.0
CB_O9	978.0	978.5	988.6	10.1
CB_L5	977.5	978.0	981.5	3.5
CB_L4	978.0	978.1	981.5	3.4
CB_D9	997.0	997.5	1001.0	3.5
CB_A8	1002.0	1002.1	1007.6	5.5
CB_O8	975.5	975.8	977.8	2.0

(1) No building within the development is nearby. The elevation is the contour below the existing home to the northwest

Table 4.6 Stormwater Basin EOF Summary

Location	EOF Elevation	Lowest Nearby Structure Elev.	Freeboard (ft)
Pond 1N	1012.0	1015.6	3.6
Pond 1S	971.0	973.6	2.6
Pond 2S	972.0	978.3	6.3
Pond 3S	978.0	980.1	2.1
Pond 4S	971.7	973.6	1.9
Pond 5S	981.5	984.6	3.1

4.4 Rate Control

The development site was analyzed to determine the pre- and post-development runoff rates to each watershed (Bassett Creek and Elm Creek). ***Table 4.7*** below summarizes the pre- and post-development discharge rates. See ***Appendix C*** for the pre- and post-development HydroCAD summaries.

Table 4.7 Summary of Site Discharge Rates (cfs)

Condition	2-Year			10-Year			100-Year		
	Bassett Creek	Elm Creek	Total	Bassett Creek	Elm Creek	Total	Bassett Creek	Elm Creek	Total
Existing	77	5.4	**82.4**	174.5	19.6	**194.1**	427.7	49.7	**477.4**
Proposed	22.6	0.9	**23.5**	50.7	5.6	**56.3**	109.6	18.8	**128.4**
Δ Q	-54.4	-4.5	**-58.9**	-123.8	-14.0	**-137.8**	-318.1	-30.9	**-349.0**

Overall the project is significantly reducing discharge rates to the downstream receiving waters. Table 4.8 below details the reduction in downstream discharge rates for each location as well as for the project overall.

Table 4.8 Summary of Site Discharge Rate Reduction (%)

Condition	2-Year			10-Year			100-Year		
	Bassett Creek	Elm Creek	Total	Bassett Creek	Elm Creek	Total	Bassett Creek	Elm Creek	Total
Existing	77.0	5.4	82.4	174.5	19.6	194.1	427.7	49.7	477.4
Proposed	22.6	0.9	23.5	50.7	5.6	56.3	109.6	18.8	128.4
% Reduction	-70.6%	-83.3%	-71.5%	-70.9%	-71.4%	-71.0%	-74.4%	-62.2%	-73.1%

4.5 Water Quality Calculations

The BCWMO requires abstraction or infiltration 1.1 inches from the new impervious surface area. Reductions for Total Phosphorus (TP) and Total Suspended Solids (TSS) do not have to be calculated as long as this 1.1 inch requirement is met. If the requirement is not met, the new abstraction volume shall be 0.55 inches from new impervious surface, with a 75% annual TP removal also required.

Abstraction volume requirements are summarized in ***Table 4.9***.

Table 4.9 Abstraction Volume Requirement Summary

New Impervious Area		Required Abstraction Volume BCWMO	
(ac)	(sf)	(ac-ft)	(cf)
31.8	1,390,000	2.92	127,000

To meet the water quality requirements, stormwater reuse was incorporated into the design. The reason stormwater reuse was chosen is due to the poor soil conditions present throughout the site. With HSG Type C soils, infiltration practices are not the best option. Stormwater reuse is one of the BMPs approved by the BCWMC and was chosen for the design. Water will be taken from Pond 5S and distributed over multiped areas throughout the site, see ***Figure 4*** for irrigation areas. ***Table 4.10*** summarizes the stormwater reuse design, with the spreadsheet calculations (Ramsey-Washington Metro Watershed District Reuse Calculator) found in ***Appendix D.***

Table 4.10 Stormwater Reuse Design

Pond	Drainage Area (ac)	% Impervious	HSG (dominant)	Reuse Storage Volume (ac-ft)	Irrigation Application Area (ac)	Abstraction Volume Earned (cf)
Pond 5S	53.6	33.4	C	6.7	15.4	141,000

As seen in ***Table 4.9***, the abstraction volume requirements are met with stormwater reuse, thus no other BMPs were implemented into the design and no P8 analysis was conducted.

4.6 Floodplain Volume Analysis

The City of Plymouth has conducted a regional hydraulic analysis to define administrative floodplains the City for the 100-year event based on Atlas 14 in addition to the FEMA floodplains. The site contains four (4) wetland areas (smaller adjacent wetlands have been lumped together) identified by the City as part of the analysis. The project area is located at the headwaters of a tributary to Plymouth Creek. Of the four wetland areas, three of them are isolated wetlands located within the existing golf course with limited discharge downstream under existing conditions. The fourth area is the largest of them all and it is the large wetland complex located along the south side of the project site. These inundation areas for the 100-year event can be found in the City's Atlas 14 100-year Inundation Map, included in **Appendix F**.

The project is proposing to fill portions of these inundation areas as well as mitigate for the fill by the construction of regional stormwater basins to provide adequate compensatory storage. Under existing conditions, the floodplain storage volume on site, based on the inundation map is 81.466 acre-feet. The project is proposing to provide 107.120 acre-feet of floodplain storage throughout the project site. The proposed floodplain storage includes the live storage being provided by the stormwater ponds throughout the development. The project is also significantly reducing discharge rates from the site as a result of the amount of storage being provided in the ponding systems. **Table 4.11** is included below detailing the overall reduction of the discharge rates to the south and into the wetland complex from existing conditions. Overall, the additional storage being created on site coupled with the reduced discharge offsite through the use of on site ponding and smaller trunk storm sewer sizes will reduce downstream HWLs. This is able to be accomplished because the project site is located at the upper end of the watershed. Reducing discharge rates reduces the peak rate for downstream receiving waters and reduces the potential for flooding by holding water back within the development until the downstream areas are able to adequately drain.

Table 4.11 Floodplain Rate Reduction

Discharge to Bassett Creek Watershed [via Plymouth Creek]	2-Yr	10-Yr	100-Yr
Existing	77.0	174.5	427.7
Proposed	22.6	50.7	109.6
Δ Q	-54.4	-123.8	-318.1
% Reduction	-70.6	-70.9	-74.4

APPENDICES

APPENDIX A – FIGURES

FIGURE 1 – SITE LOCATION MAP
FIGURE 2 – EXISTING CONDITIONS MAP
FIGURE 3 – PROPOSED CONDITIONS MAP
FIGURE 4 – STORMWATER REUSE MAP

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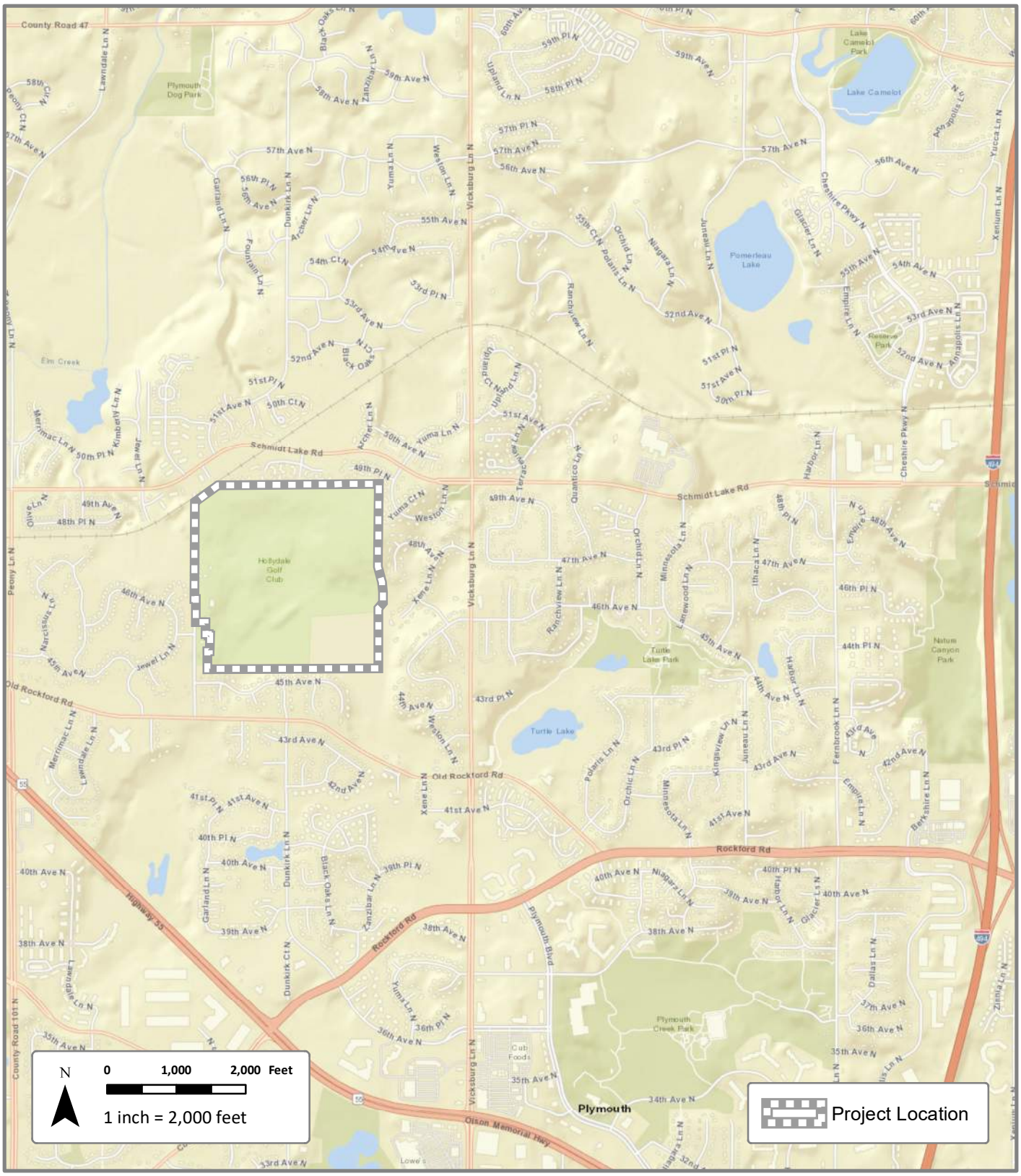

Information depicted may include data unverified by AE2S. Any reliance upon such data is at the user's own risk. AE2S does not warrant this map or its features are either spatially or temporally accurate.

Coordinate System: NAD 1983 HARN Adj MN Hennepin Feet | Edited by: llamoore | C:\Users\LLaMoore\AE2S\Sathre - Hollydale Golf Course\GIS\Fig1_Site Map.mxd

Locator Map Not to Scale

Figure 1

SITE LOCATION MAP

HOLLYDALE DEVELOPMENT

SATHRE-BERGQUIST,INC

Plymouth | Hennepin County, MN

Date: 6/17/2020

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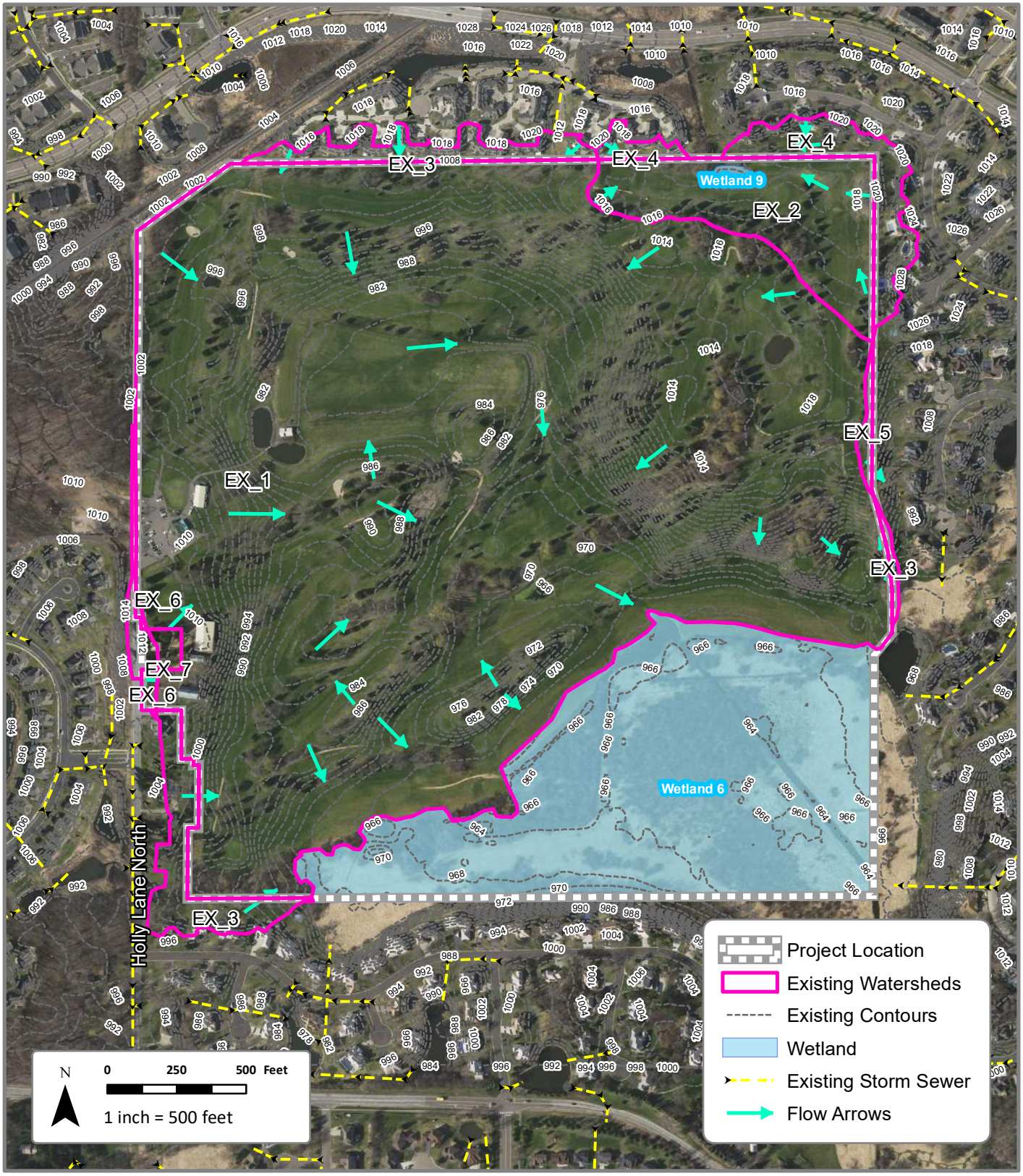

Information depicted may include data unverified by AE2S. Any reliance upon such data is at the user's own risk. AE2S does not warrant this map or its features are either spatially or temporally accurate.

Coordinate System: NAD 1983 HARN Adj MN Hennepin Feet | Edited by: llamoore | C:\Users\LLaMoore\AE2S\Sathre - Hollydale Golf Course\GIS\Fig2_Existing Conditions.mxd

Locator Map Not to Scale

Figure 2

EXISTING CONDITIONS

HOLLYDALE DEVELOPMENT

SATHRE-BERGQUIST,INC

Plymouth | Hennepin County, MN

Date: 6/25/2020

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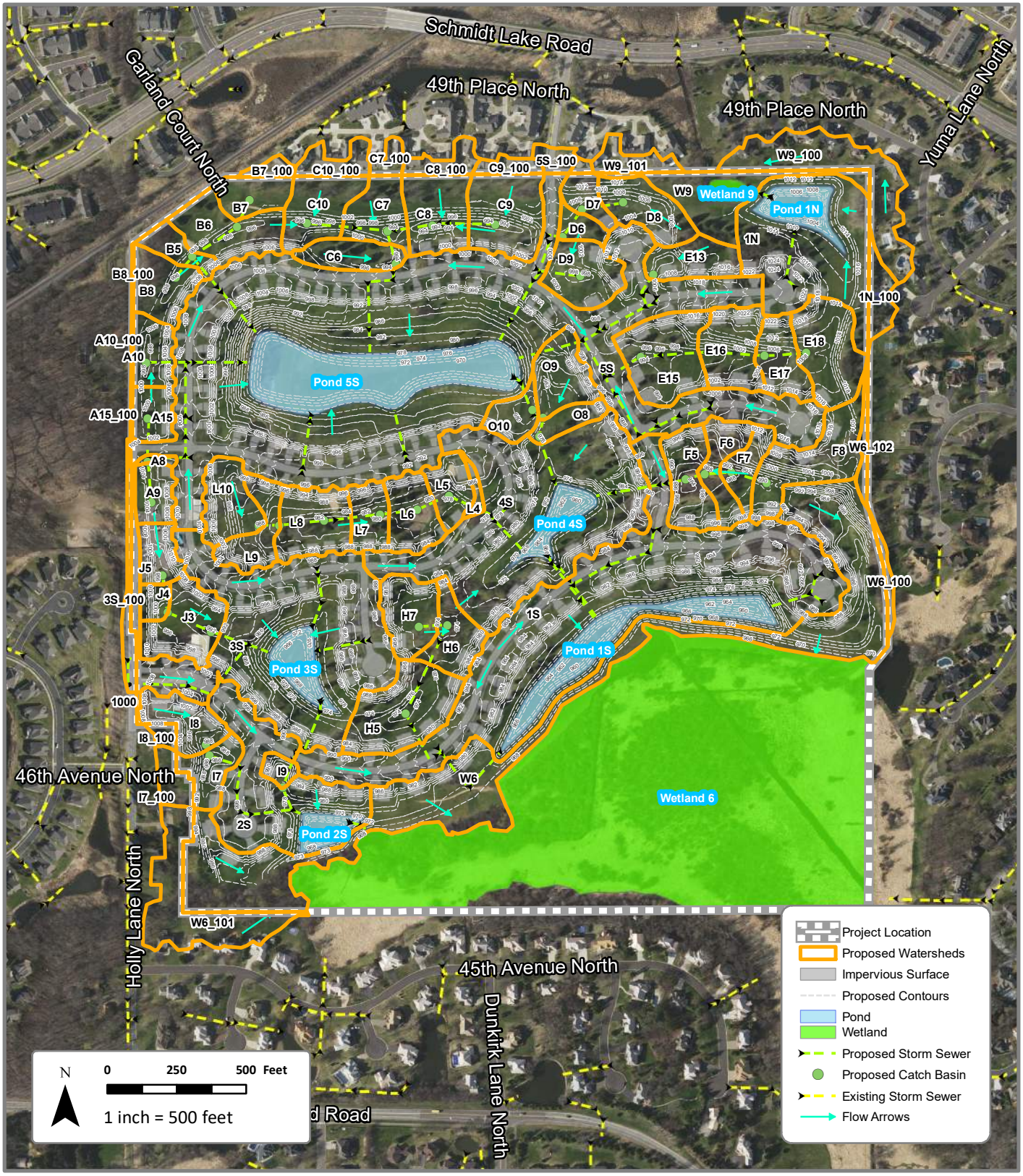

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Coordinate System: NAD 1983 HARN Adj MN Hennepin Feet | Edited by: llamoore | C:\Users\LLaMoore\AE2S\Sathre - Hollydale Golf Course\GIS\Fig3_Proposed Conditions.mxd

Locator Map Not to Scale

Figure 3

PROPOSED CONDITIONS

HOLLYDALE DEVELOPMENT

SATHRE-BERGQUIST,INC

Plymouth | Hennepin County, MN

Date: 6/23/2020

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Coordinate System: NAD 1983 HARN Adj MN Hennepin Feet | Edited by: llamoore | C:\Users\LLaMoore\AE2S\Sathre - Hollydale Golf Course\GIS\Fig4_Stormwater Reuse Map.mxd

Locator Map Not to Scale

Figure 4

STORMWATER REUSE MAP

HOLLYDALE DEVELOPMENT

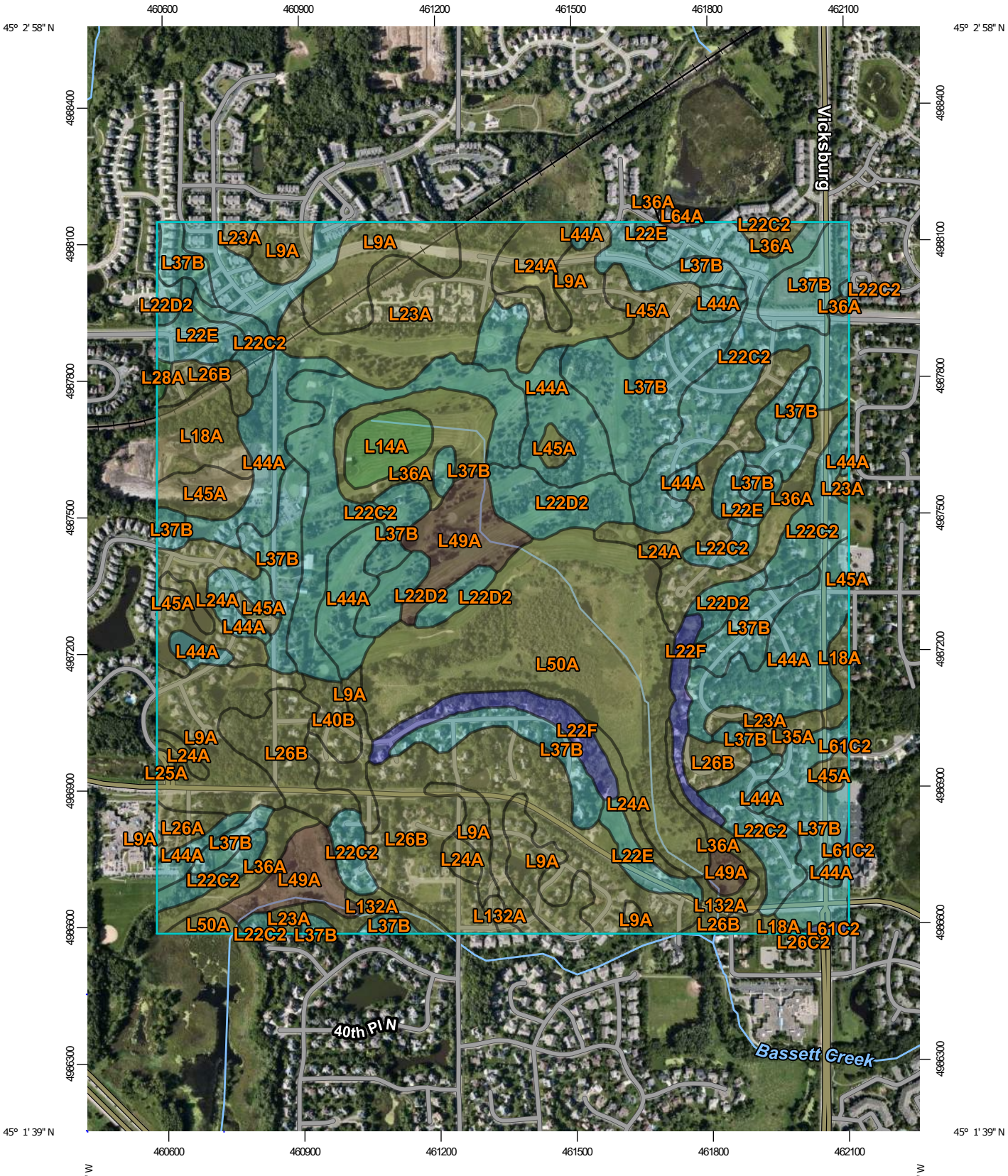
SATHRE-BERGQUIST,INC

Plymouth | Hennepin County, MN

Date: 6/23/2020

APPENDIX B – WEB SOIL SURVEY REPORT

Hydrologic Soil Group—Hennepin County, Minnesota
(Hollydale Golf Course)



Map Scale: 1:11,800 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 150 300 600 900

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hennepin County, Minnesota
Survey Area Data: Version 15, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 19, 2019—Aug 29, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
L9A	Minnetonka silty clay loam, 0 to 2 percent slopes	C/D	55.1	9.3%
L14A	Houghton muck, 0 to 1 percent slopes	A/D	5.9	1.0%
L18A	Shields silty clay loam, 0 to 3 percent slopes	C/D	10.6	1.8%
L22C2	Lester loam, 6 to 10 percent slopes, moderately eroded	C	78.0	13.2%
L22D2	Lester loam, 10 to 16 percent slopes, moderately eroded	C	19.0	3.2%
L22E	Lester loam, 10 to 22 percent slopes	C	12.2	2.1%
L22F	Lester loam, morainic, 25 to 35 percent slopes	B	11.0	1.9%
L23A	Cordova loam, 0 to 2 percent slopes	C/D	26.5	4.5%
L24A	Glencoe clay loam, 0 to 1 percent slopes	C/D	13.2	2.2%
L25A	Le Sueur loam, 1 to 3 percent slopes	C/D	0.5	0.1%
L26A	Shorewood silty clay loam, 1 to 3 percent slopes	C/D	2.4	0.4%
L26B	Shorewood silty clay loam, 3 to 6 percent slopes	C/D	57.6	9.7%
L26C2	Shorewood silty clay loam, 6 to 12 percent slopes, eroded	C/D	0.0	0.0%
L28A	Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded	A/D	0.5	0.1%
L35A	Lerdal loam, 1 to 3 percent slopes	C/D	1.0	0.2%
L36A	Hamel, overwash-Hamel complex, 0 to 3 percent slopes	C/D	38.0	6.4%
L37B	Angus loam, 2 to 6 percent slopes	C	79.7	13.5%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
L40B	Angus-Kilkenny complex, 2 to 6 percent slopes	C/D	3.8	0.6%
L44A	Nessel loam, 1 to 3 percent slopes	C	68.1	11.5%
L45A	Dundas-Cordova complex, 0 to 3 percent slopes	C/D	22.2	3.7%
L49A	Klossner soils, depressional, 0 to 1 percent slopes	B/D	19.6	3.3%
L50A	Muskego and Houghton soils, 0 to 1 percent slopes	C/D	59.1	10.0%
L61C2	Lester-Metea complex, 6 to 12 percent slopes, eroded	B	0.8	0.1%
L64A	Tadkee-Tadkee, depressional, complex, 0 to 2 percent slopes	B/D	0.2	0.0%
L132A	Hamel-Glencoe complex, 0 to 2 percent slopes	C/D	6.4	1.1%
Totals for Area of Interest			**591.5**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

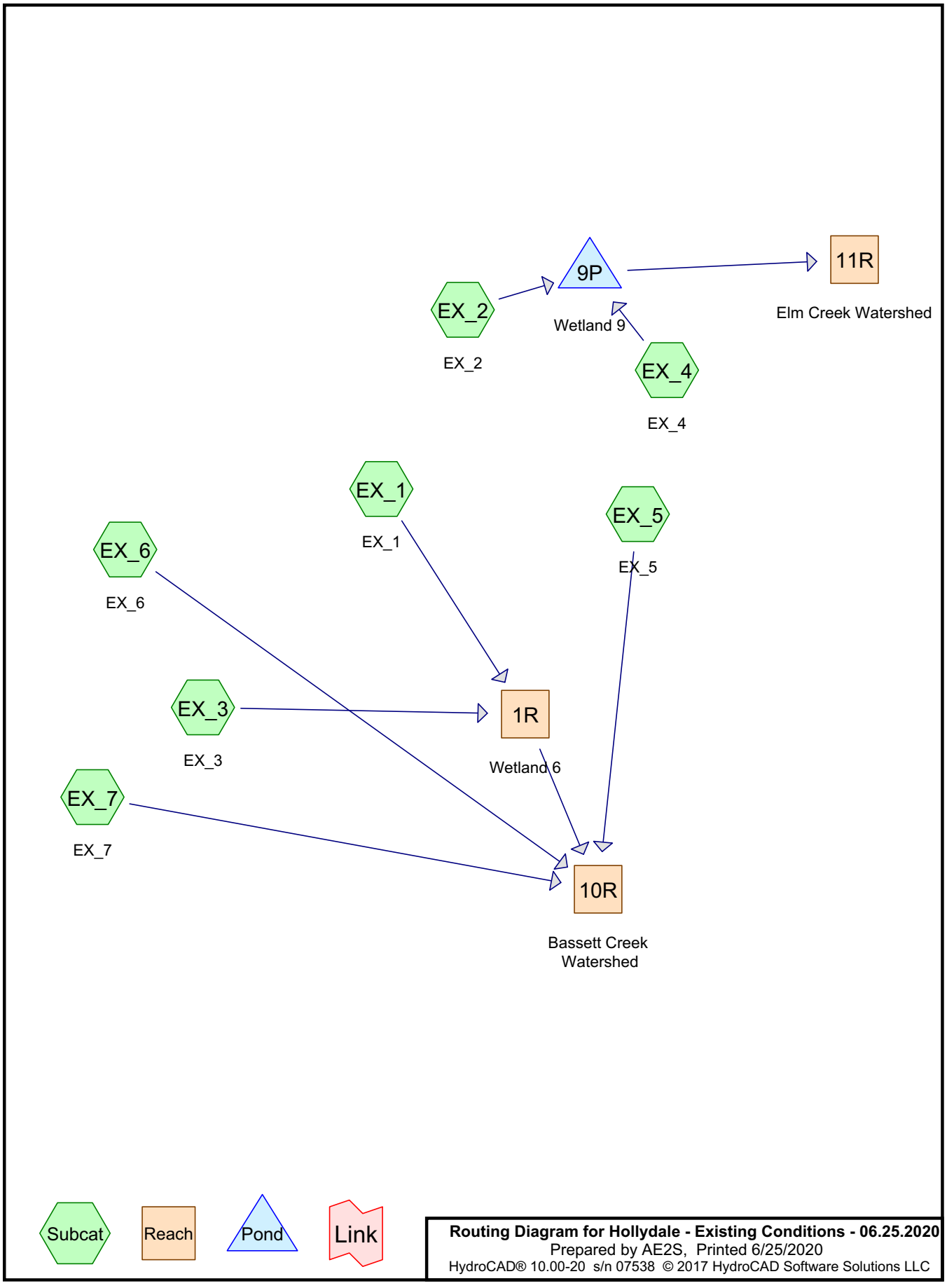
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

APPENDIX C – HYDROCAD SUMMARIES (PRE- AND POST-DEVELOPMENT)



Routing Diagram for Hollydale - Existing Conditions - 06.25.2020
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Hollydale - Existing Conditions - 06.25.2020

Prepared by AE2S

Printed 6/25/2020

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
5.656	39	>75% Grass cover, Good, HSG A (EX_1)
9.869	61	>75% Grass cover, Good, HSG B (EX_1)
105.486	74	>75% Grass cover, Good, HSG C (EX_1, EX_2, EX_3, EX_4, EX_5, EX_6, EX_7)
0.061	87	Dirt roads, HSG C (EX_1)
5.244	98	Impervious (EX_1, EX_3, EX_4, EX_6, EX_7)
1.114	98	Wetland (EX_1, EX_2)
0.482	60	Woods, Fair, HSG B (EX_1)
8.829	73	Woods, Fair, HSG C (EX_1, EX_2, EX_3, EX_4, EX_5)
136.741	**73**	**TOTAL AREA**

Hollydale - Existing Conditions - 06.25.2020

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
5.656	HSG A	EX_1
10.351	HSG B	EX_1
114.376	HSG C	EX_1, EX_2, EX_3, EX_4, EX_5, EX_6, EX_7
0.000	HSG D	
6.358	Other	EX_1, EX_2, EX_3, EX_4, EX_6, EX_7
136.741		**TOTAL AREA**

Hollydale - Existing Conditions - 06.25.2020

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
5.656	9.869	105.486	0.000	0.000	121.011	>75% Grass cover, Good	EX_1, EX_2, EX_3, EX_4, EX_5, EX_6, EX_7
0.000	0.000	0.061	0.000	0.000	0.061	Dirt roads	EX_1
0.000	0.000	0.000	0.000	5.244	5.244	Impervious	EX_1, EX_3, EX_4, EX_6, EX_7
0.000	0.000	0.000	0.000	1.114	1.114	Wetland	EX_1, EX_2
0.000	0.482	8.829	0.000	0.000	9.311	Woods, Fair	EX_1, EX_2, EX_3, EX_4, EX_5
5.656	**10.351**	**114.376**	**0.000**	**6.358**	**136.741**	**TOTAL AREA**	

Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentEX_1: EX_1 Runoff Area=118.553 ac 2.64% Impervious Runoff Depth=0.79"
Flow Length=2,703' Tc=33.3 min CN=WQ Runoff=71.35 cfs 7.786 af

SubcatchmentEX_2: EX_2 Runoff Area=7.736 ac 2.87% Impervious Runoff Depth=0.87"
Flow Length=850' Tc=24.5 min CN=WQ Runoff=6.25 cfs 0.563 af

SubcatchmentEX_3: EX_3 Runoff Area=5.602 ac 28.65% Impervious Runoff Depth=1.34"
Flow Length=2,787' Tc=42.7 min CN=WQ Runoff=4.94 cfs 0.626 af

SubcatchmentEX_4: EX_4 Runoff Area=3.592 ac 26.45% Impervious Runoff Depth=1.30"
Flow Length=830' Tc=18.1 min CN=WQ Runoff=5.03 cfs 0.390 af

SubcatchmentEX_5: EX_5 Runoff Area=0.360 ac 0.00% Impervious Runoff Depth=0.83"
Flow Length=250' Tc=15.5 min CN=WQ Runoff=0.35 cfs 0.025 af

SubcatchmentEX_6: EX_6 Runoff Area=0.232 ac 12.93% Impervious Runoff Depth=1.06"
Flow Length=100' Slope=0.0200 '/' Tc=10.3 min CN=WQ Runoff=0.35 cfs 0.021 af

SubcatchmentEX_7: EX_7 Runoff Area=0.666 ac 63.66% Impervious Runoff Depth=1.98"
Flow Length=650' Tc=16.4 min CN=WQ Runoff=1.48 cfs 0.110 af

Reach 1R: Wetland 6 Inflow=76.08 cfs 8.412 af
Outflow=76.08 cfs 8.412 af

Reach 10R: Bassett Creek Watershed Inflow=76.95 cfs 8.567 af
Outflow=76.95 cfs 8.567 af

Reach 11R: Elm Creek Watershed Inflow=5.44 cfs 0.652 af
Outflow=5.44 cfs 0.652 af

Pond 9P: Wetland 9 Peak Elev=1,010.23' Storage=23,542 cf Inflow=10.76 cfs 0.953 af
Outflow=5.44 cfs 0.652 af

Total Runoff Area = 136.741 ac Runoff Volume = 9.520 af Average Runoff Depth = 0.84"
95.35% Pervious = 130.383 ac 4.65% Impervious = 6.358 ac

Summary for Subcatchment EX_1: EX_1

Runoff = 71.35 cfs @ 12.51 hrs, Volume= 7.786 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.061	87	Dirt roads, HSG C
*	2.235	98	Impervious
	5.656	39	>75% Grass cover, Good, HSG A
	9.869	61	>75% Grass cover, Good, HSG B
	92.243	74	>75% Grass cover, Good, HSG C
	0.482	60	Woods, Fair, HSG B
	7.115	73	Woods, Fair, HSG C
*	0.892	98	Wetland
	118.553		Weighted Average
	115.426		97.36% Pervious Area
	3.127		2.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.0400	0.21		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
7.7	500	0.0240	1.08		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.8	2,103	0.0100	1.97	1.97	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030 Stream, clean & straight
33.3	2,703	Total			

Hollydale - Existing Conditions - 06.25.2020
Prepared by AE2S
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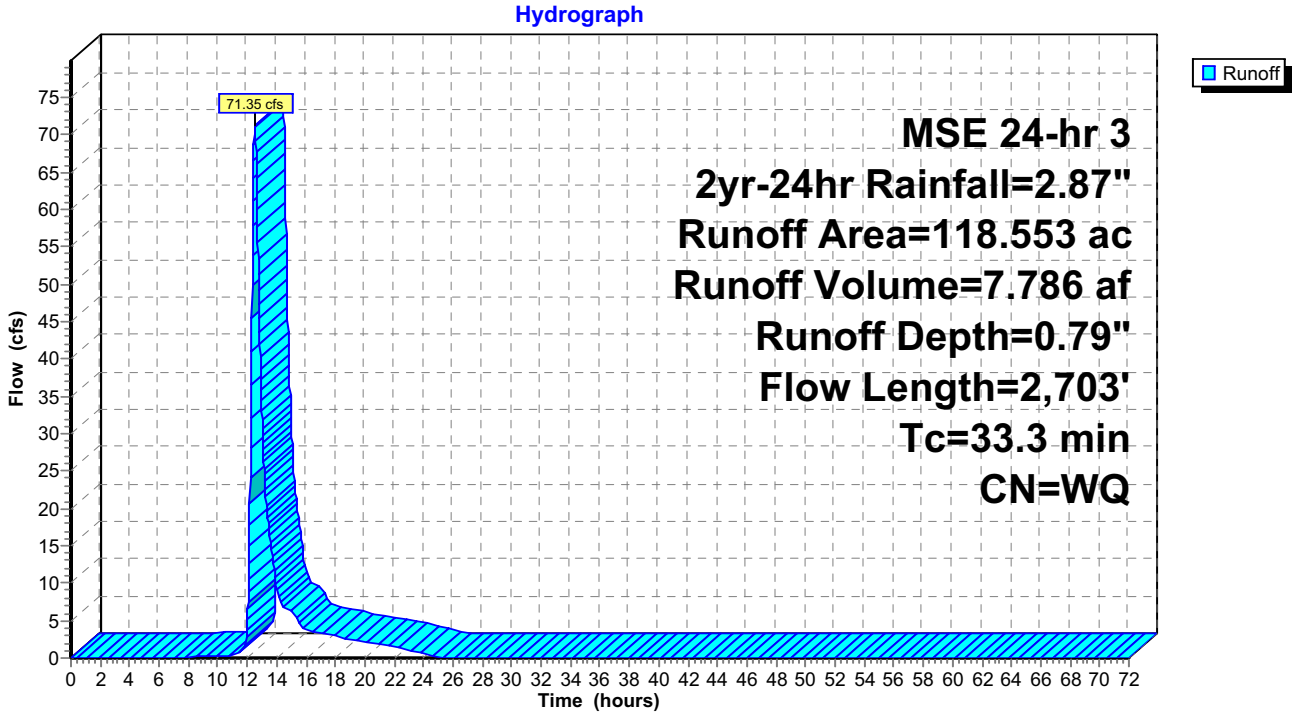
Subcatchment EX_1: EX_1



Summary for Subcatchment EX_2: EX_2

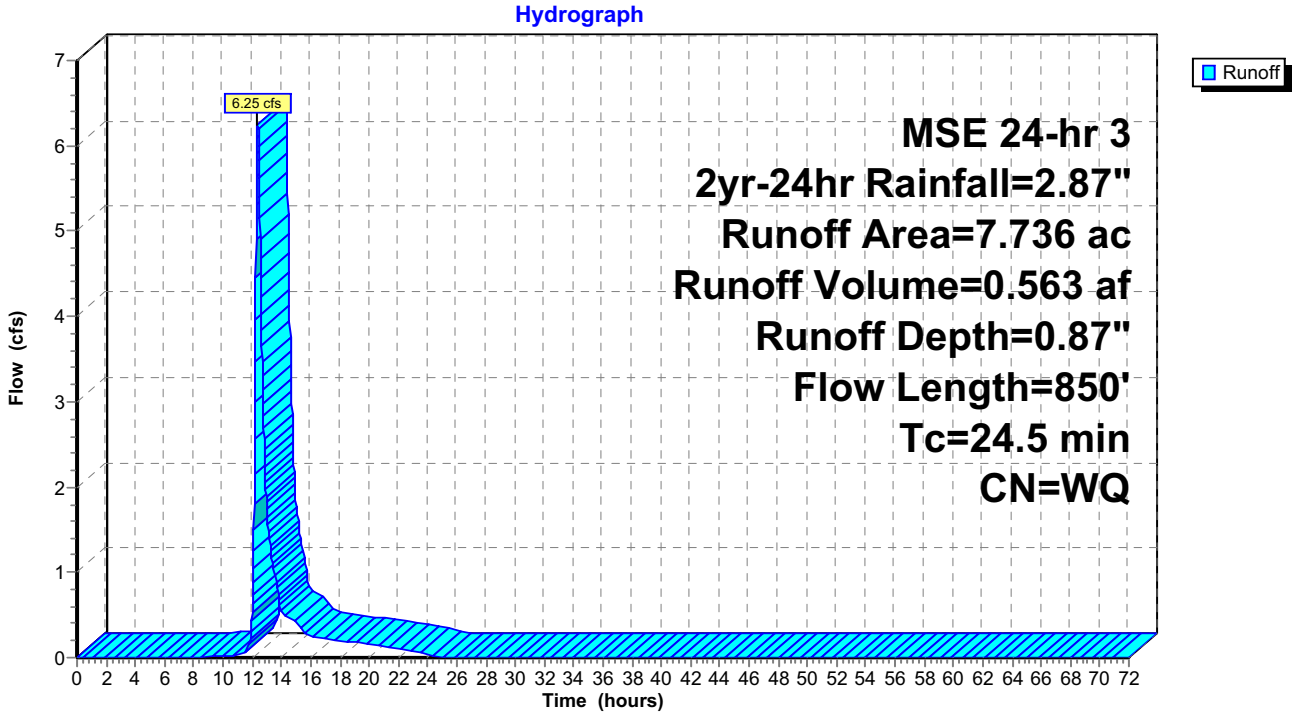
Runoff = 6.25 cfs @ 12.38 hrs, Volume= 0.563 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	6.544	74	>75% Grass cover, Good, HSG C
	0.970	73	Woods, Fair, HSG C
*	0.222	98	Wetland
	7.736		Weighted Average
	7.514		97.13% Pervious Area
	0.222		2.87% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	100	0.0120	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
10.1	500	0.0140	0.83		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	250	0.0160	2.49	2.49	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
24.5	850	Total			

Subcatchment EX_2: EX_2



Summary for Subcatchment EX_3: EX_3

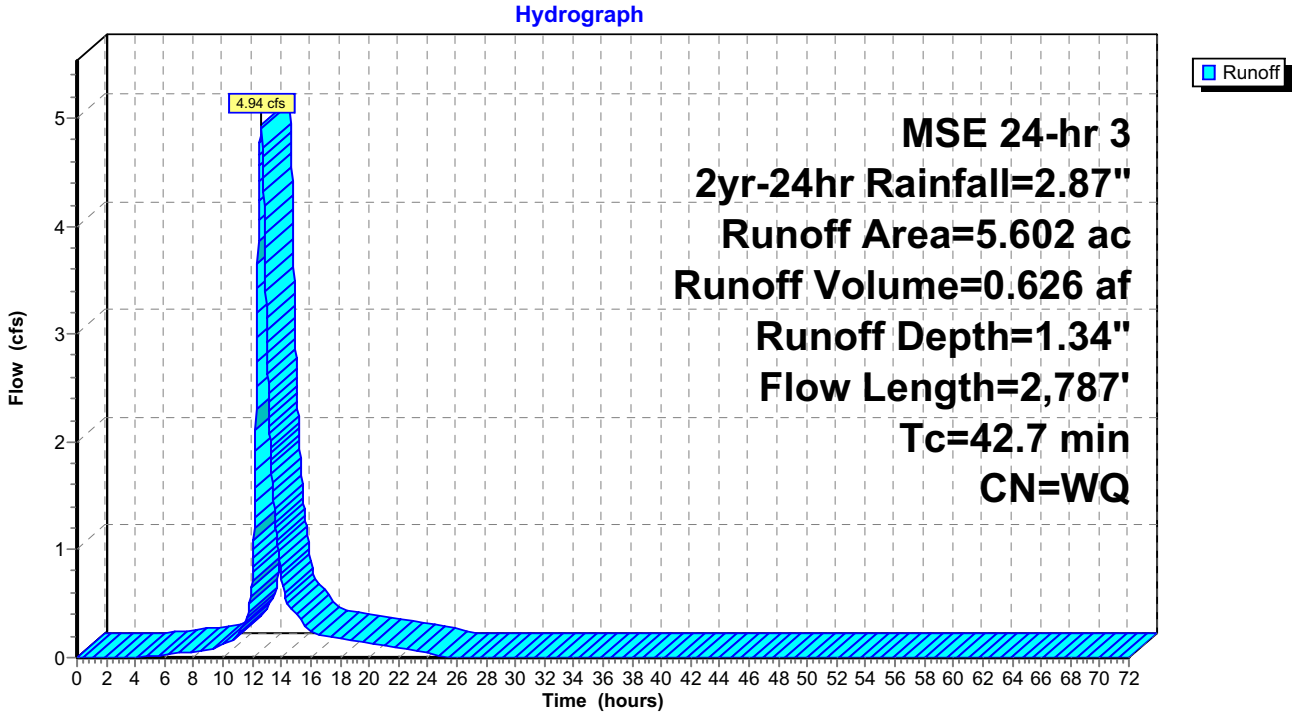
Runoff = 4.94 cfs @ 12.59 hrs, Volume= 0.626 af, Depth= 1.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	1.605	98	Impervious
	3.413	74	>75% Grass cover, Good, HSG C
	0.584	73	Woods, Fair, HSG C
	5.602		Weighted Average
	3.997		71.35% Pervious Area
	1.605		28.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	184	0.0190	0.18		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
7.7	500	0.0240	1.08		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.8	2,103	0.0100	1.97	1.97	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
42.7	2,787	Total			

Subcatchment EX_3: EX_3



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Summary for Subcatchment EX_4: EX_4

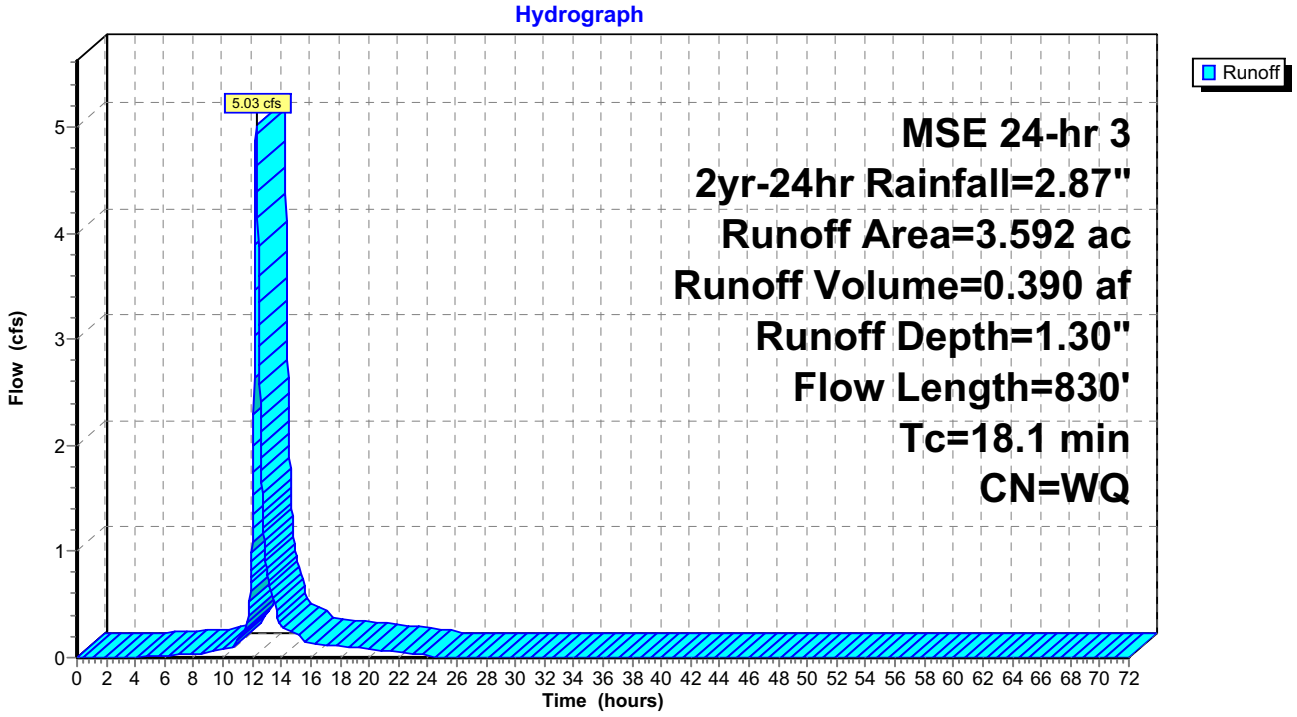
Runoff = 5.03 cfs @ 12.28 hrs, Volume= 0.390 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.950	98	Impervious
	2.483	74	>75% Grass cover, Good, HSG C
	0.159	73	Woods, Fair, HSG C
	3.592		Weighted Average
	2.642		73.55% Pervious Area
	0.950		26.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.0900	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
10.9	500	0.0120	0.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.5	230	0.0174	2.59	2.59	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
18.1	830	Total			

Subcatchment EX_4: EX_4



Summary for Subcatchment EX_5: EX_5

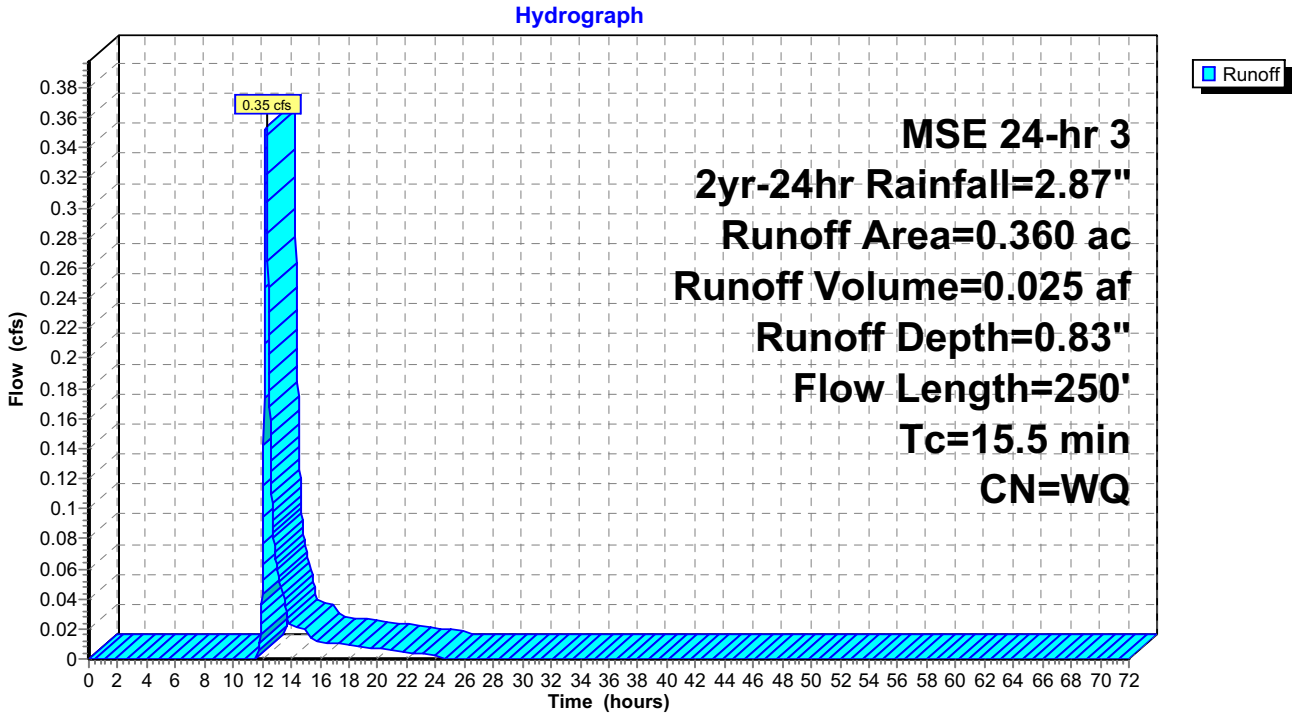
Runoff = 0.35 cfs @ 12.26 hrs, Volume= 0.025 af, Depth= 0.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

Area (ac)	CN	Description
0.359	74	>75% Grass cover, Good, HSG C
0.001	73	Woods, Fair, HSG C
0.360		Weighted Average
0.360		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	100	0.0100	0.12		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
1.8	150	0.0400	1.40		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.5	250	Total			

Subcatchment EX_5: EX_5



Summary for Subcatchment EX_6: EX_6

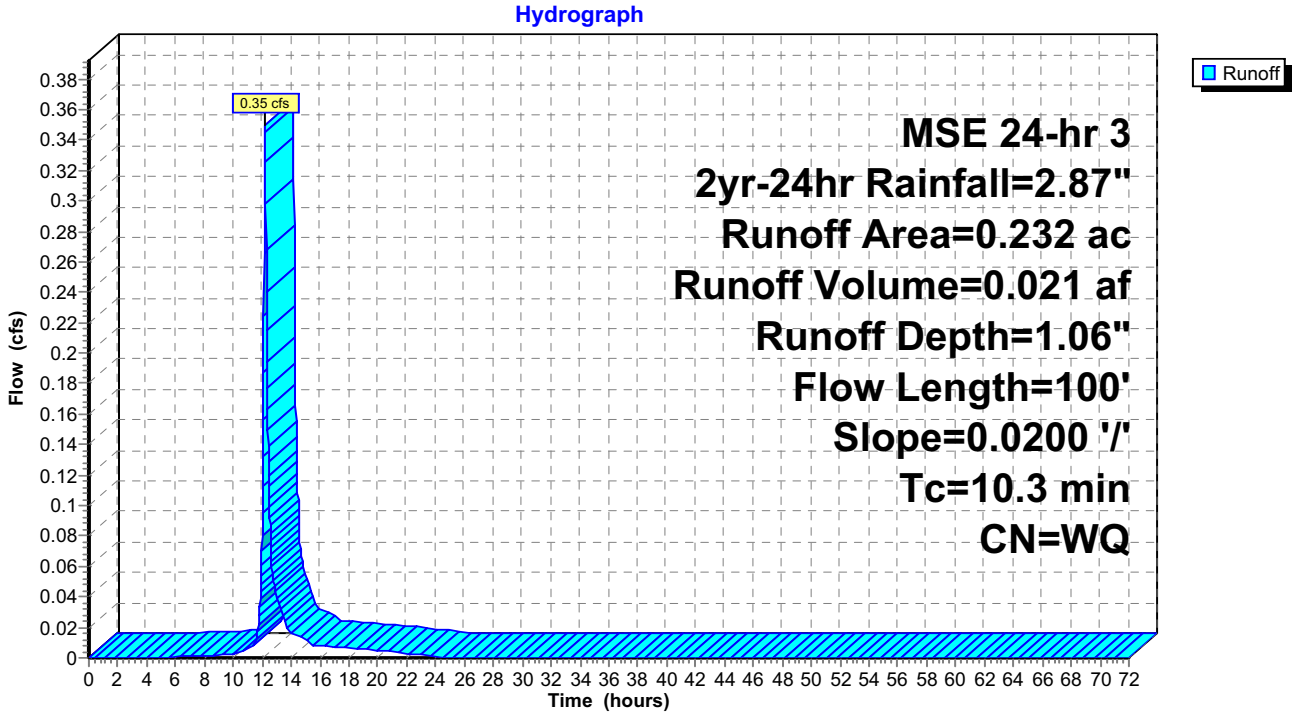
Runoff = 0.35 cfs @ 12.19 hrs, Volume= 0.021 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.202	74	>75% Grass cover, Good, HSG C
*	0.030	98	Impervious
	0.232		Weighted Average
	0.202		87.07% Pervious Area
	0.030		12.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.3	100	0.0200	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment EX_6: EX_6



Summary for Subcatchment EX_7: EX_7

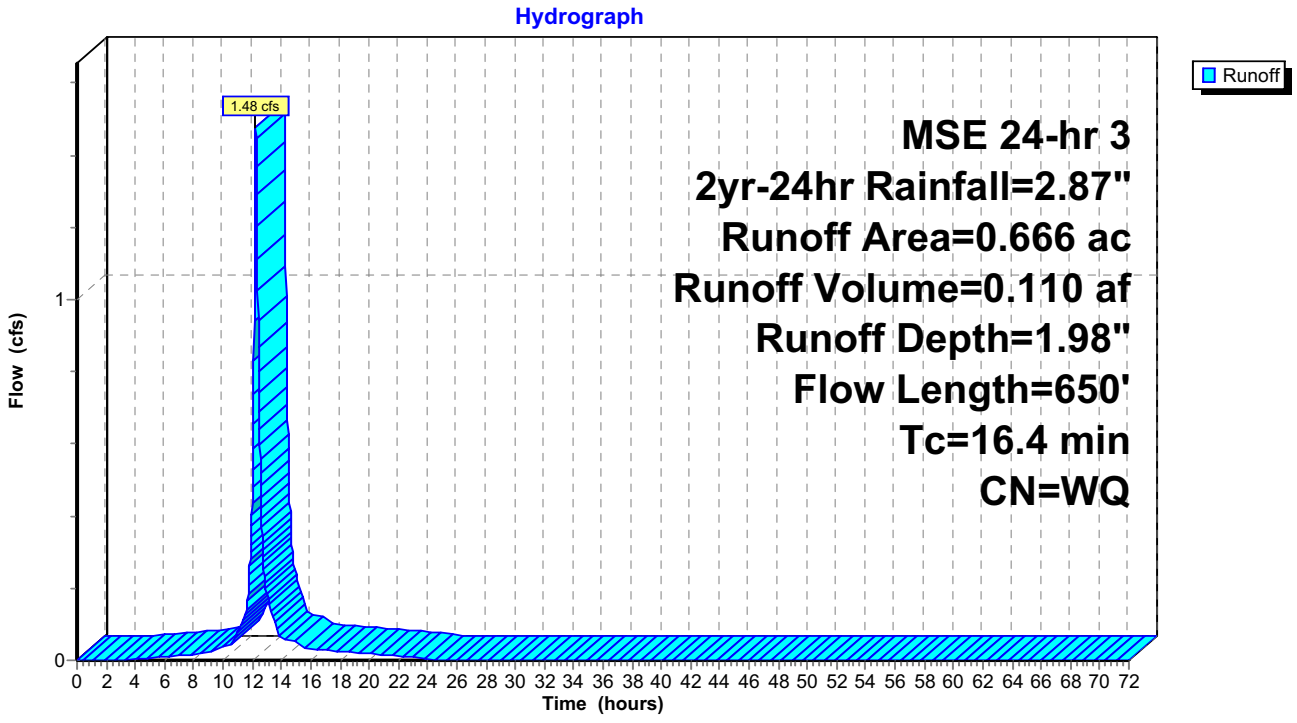
Runoff = 1.48 cfs @ 12.24 hrs, Volume= 0.110 af, Depth= 1.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.242	74	>75% Grass cover, Good, HSG C
*	0.424	98	Impervious
	0.666		Weighted Average
	0.242		36.34% Pervious Area
	0.424		63.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	120	0.0170	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
3.6	530	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.4	650	Total			

Subcatchment EX_7: EX_7



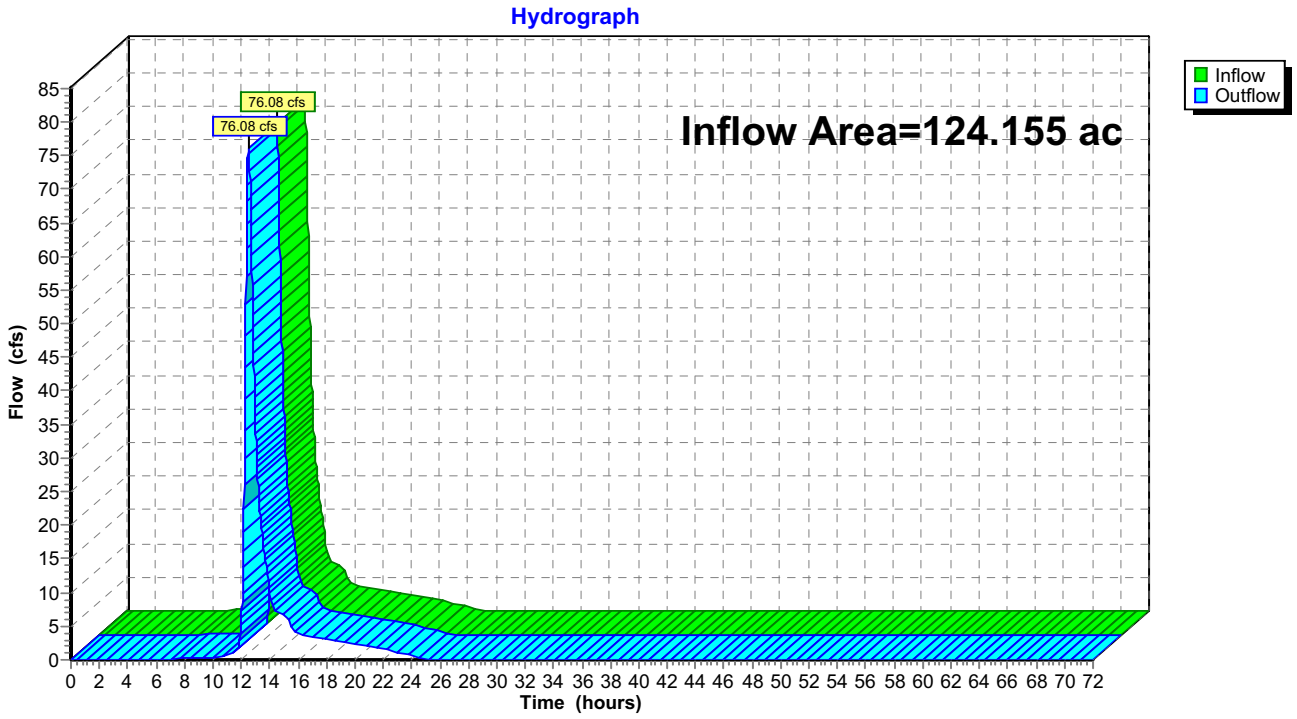
Summary for Reach 1R: Wetland 6

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 124.155 ac, 3.81% Impervious, Inflow Depth = 0.81" for 2yr-24hr event
Inflow = 76.08 cfs @ 12.52 hrs, Volume= 8.412 af
Outflow = 76.08 cfs @ 12.52 hrs, Volume= 8.412 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 1R: Wetland 6



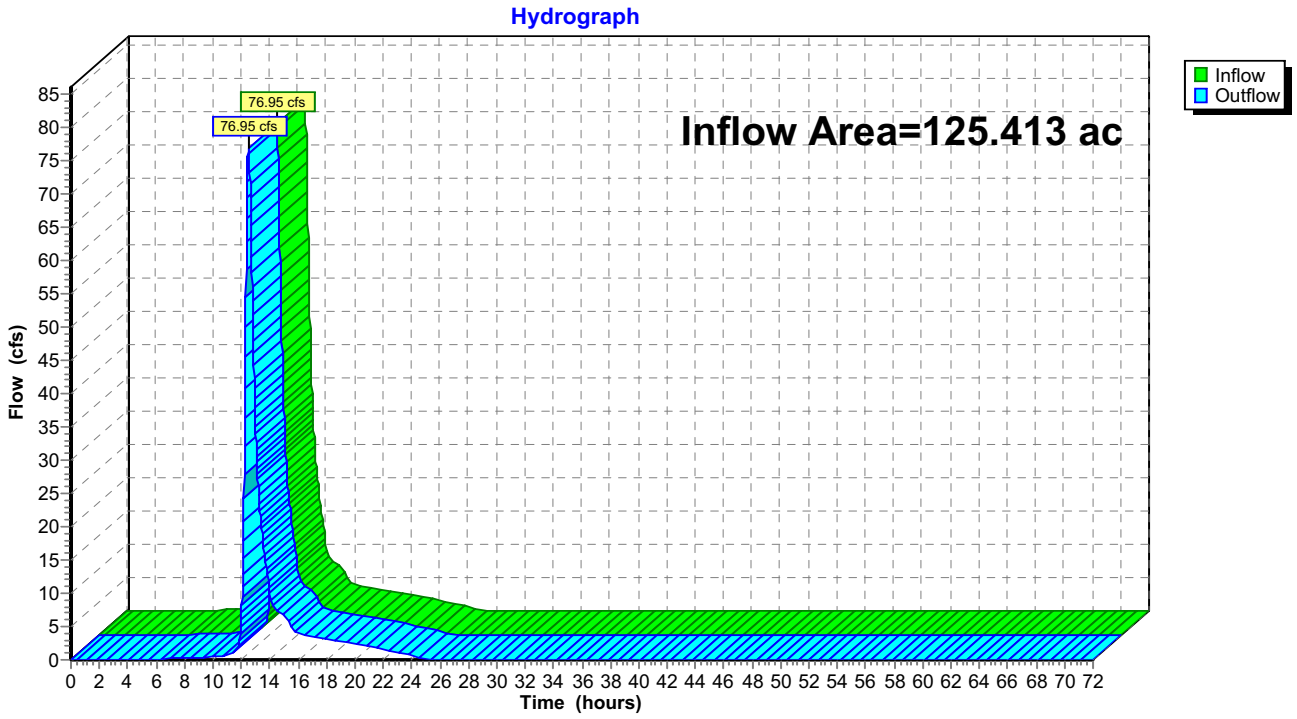
Summary for Reach 10R: Bassett Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 125.413 ac, 4.14% Impervious, Inflow Depth = 0.82" for 2yr-24hr event
Inflow = 76.95 cfs @ 12.51 hrs, Volume= 8.567 af
Outflow = 76.95 cfs @ 12.51 hrs, Volume= 8.567 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 10R: Bassett Creek Watershed



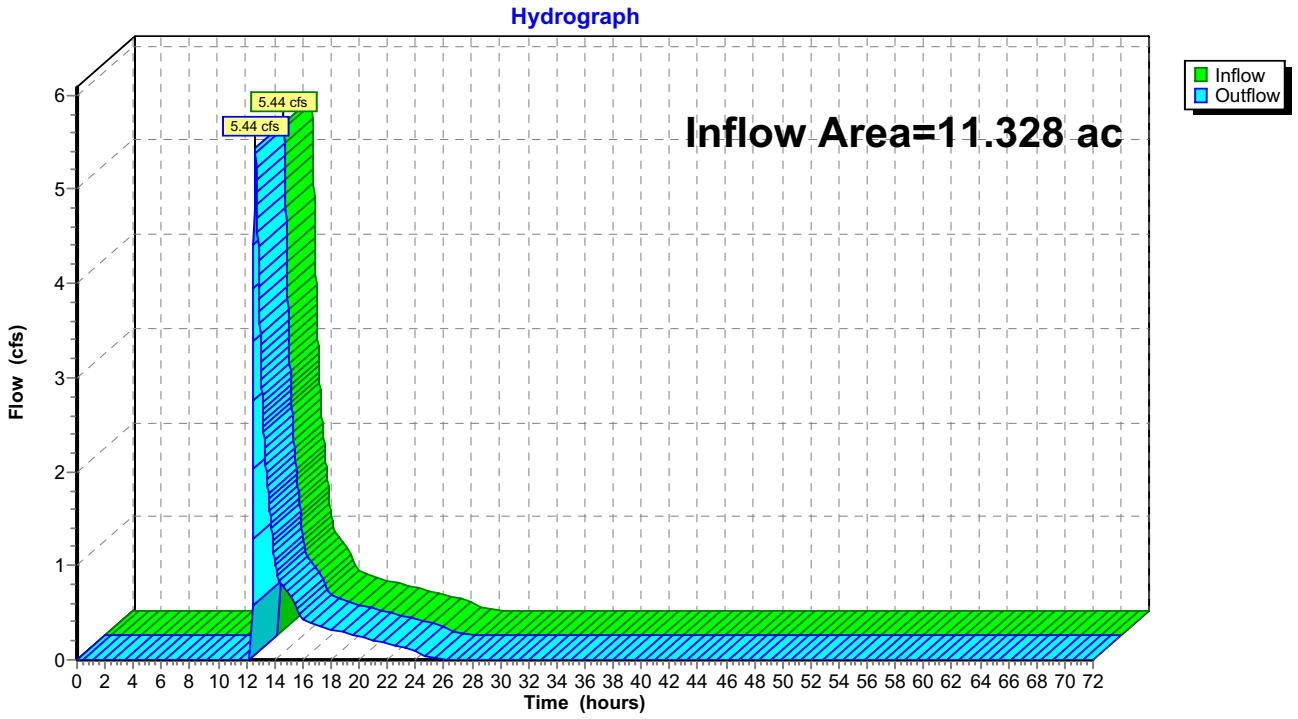
Summary for Reach 11R: Elm Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 11.328 ac, 10.35% Impervious, Inflow Depth = 0.69" for 2yr-24hr event
Inflow = 5.44 cfs @ 12.65 hrs, Volume= 0.652 af
Outflow = 5.44 cfs @ 12.65 hrs, Volume= 0.652 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 11R: Elm Creek Watershed



Summary for Pond 9P: Wetland 9

Inflow Area = 11.328 ac, 10.35% Impervious, Inflow Depth = 1.01" for 2yr-24hr event
Inflow = 10.76 cfs @ 12.33 hrs, Volume= 0.953 af
Outflow = 5.44 cfs @ 12.65 hrs, Volume= 0.652 af, Atten= 49%, Lag= 19.4 min
Primary = 5.44 cfs @ 12.65 hrs, Volume= 0.652 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.00' Surf.Area= 9,469 sf Storage= 6,526 cf
Peak Elev= 1,010.23' @ 12.65 hrs Surf.Area= 16,723 sf Storage= 23,542 cf (17,016 cf above start)

Plug-Flow detention time= 218.6 min calculated for 0.503 af (53% of inflow)
Center-of-Mass det. time= 75.7 min (902.7 - 827.0)

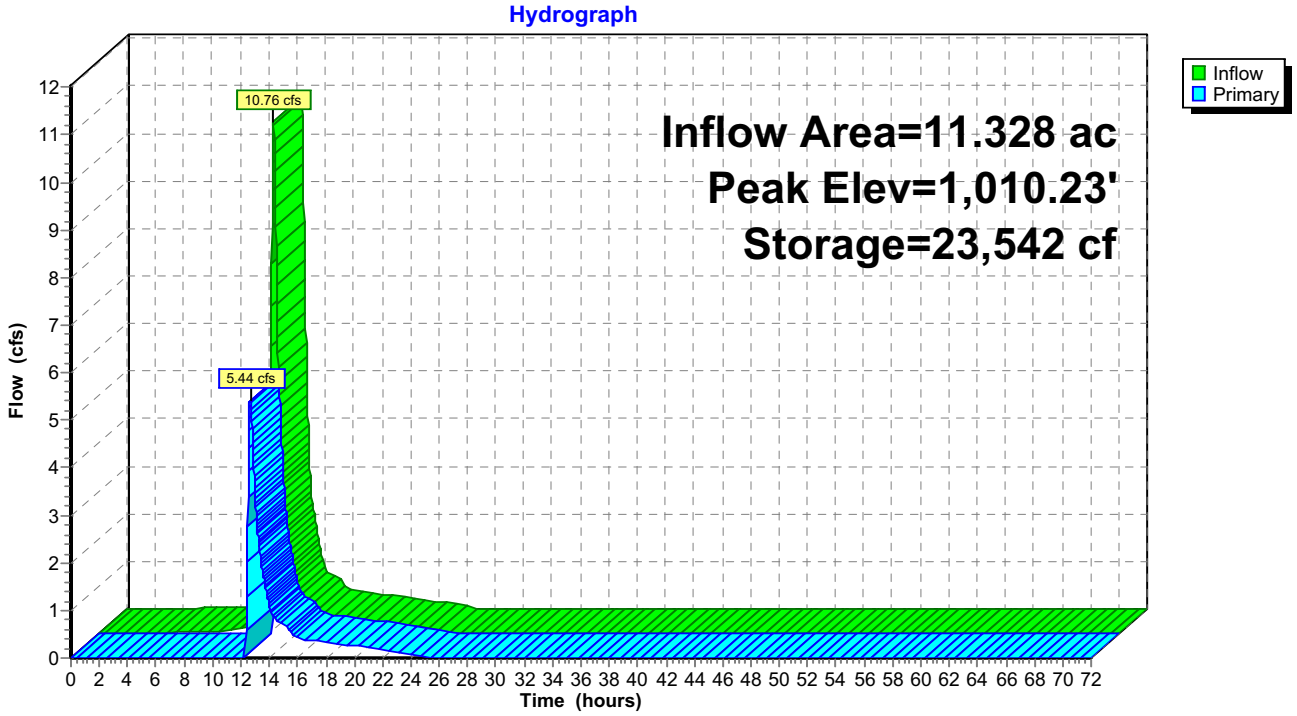
Volume	Invert	Avail.Storage	Storage Description
#1	1,008.00'	36,345 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,008.00	3,582	0	0
1,009.00	9,469	6,526	6,526
1,010.00	16,723	13,096	19,622
1,011.00	16,723	16,723	36,345

Device	Routing	Invert	Outlet Devices
#1	Primary	1,010.00'	**20.0' long x 6.0' 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 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=5.43 cfs @ 12.65 hrs HW=1,010.23' TW=0.00' (Dynamic Tailwater)
1=Broad-Crested Rectangular Weir (Weir Controls 5.43 cfs @ 1.16 fps)

Pond 9P: Wetland 9



Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentEX_1: EX_1 Runoff Area=118.553 ac 2.64% Impervious Runoff Depth=1.70"
Flow Length=2,703' Tc=33.3 min CN=WQ Runoff=164.16 cfs 16.760 af

SubcatchmentEX_2: EX_2 Runoff Area=7.736 ac 2.87% Impervious Runoff Depth=1.85"
Flow Length=850' Tc=24.5 min CN=WQ Runoff=14.06 cfs 1.194 af

SubcatchmentEX_3: EX_3 Runoff Area=5.602 ac 28.65% Impervious Runoff Depth=2.43"
Flow Length=2,787' Tc=42.7 min CN=WQ Runoff=9.27 cfs 1.135 af

SubcatchmentEX_4: EX_4 Runoff Area=3.592 ac 26.45% Impervious Runoff Depth=2.39"
Flow Length=830' Tc=18.1 min CN=WQ Runoff=9.50 cfs 0.714 af

SubcatchmentEX_5: EX_5 Runoff Area=0.360 ac 0.00% Impervious Runoff Depth=1.80"
Flow Length=250' Tc=15.5 min CN=WQ Runoff=0.82 cfs 0.054 af

SubcatchmentEX_6: EX_6 Runoff Area=0.232 ac 12.93% Impervious Runoff Depth=2.09"
Flow Length=100' Slope=0.0200 '/' Tc=10.3 min CN=WQ Runoff=0.71 cfs 0.040 af

SubcatchmentEX_7: EX_7 Runoff Area=0.666 ac 63.66% Impervious Runoff Depth=3.22"
Flow Length=650' Tc=16.4 min CN=WQ Runoff=2.41 cfs 0.179 af

Reach 1R: Wetland 6 Inflow=172.87 cfs 17.895 af
Outflow=172.87 cfs 17.895 af

Reach 10R: Bassett Creek Watershed Inflow=174.54 cfs 18.168 af
Outflow=174.54 cfs 18.168 af

Reach 11R: Elm Creek Watershed Inflow=19.57 cfs 1.608 af
Outflow=19.57 cfs 1.608 af

Pond 9P: Wetland 9 Peak Elev=1,010.52' Storage=28,289 cf Inflow=22.72 cfs 1.908 af
Outflow=19.57 cfs 1.608 af

Total Runoff Area = 136.741 ac Runoff Volume = 20.076 af Average Runoff Depth = 1.76"
95.35% Pervious = 130.383 ac 4.65% Impervious = 6.358 ac

Summary for Subcatchment EX_1: EX_1

Runoff = 164.16 cfs @ 12.48 hrs, Volume= 16.760 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.061	87	Dirt roads, HSG C
*	2.235	98	Impervious
	5.656	39	>75% Grass cover, Good, HSG A
	9.869	61	>75% Grass cover, Good, HSG B
	92.243	74	>75% Grass cover, Good, HSG C
	0.482	60	Woods, Fair, HSG B
	7.115	73	Woods, Fair, HSG C
*	0.892	98	Wetland
	118.553		Weighted Average
	115.426		97.36% Pervious Area
	3.127		2.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.0400	0.21		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
7.7	500	0.0240	1.08		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.8	2,103	0.0100	1.97	1.97	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030 Stream, clean & straight
33.3	2,703	Total			

Hollydale - Existing Conditions - 06.25.2020
Prepared by AE2S
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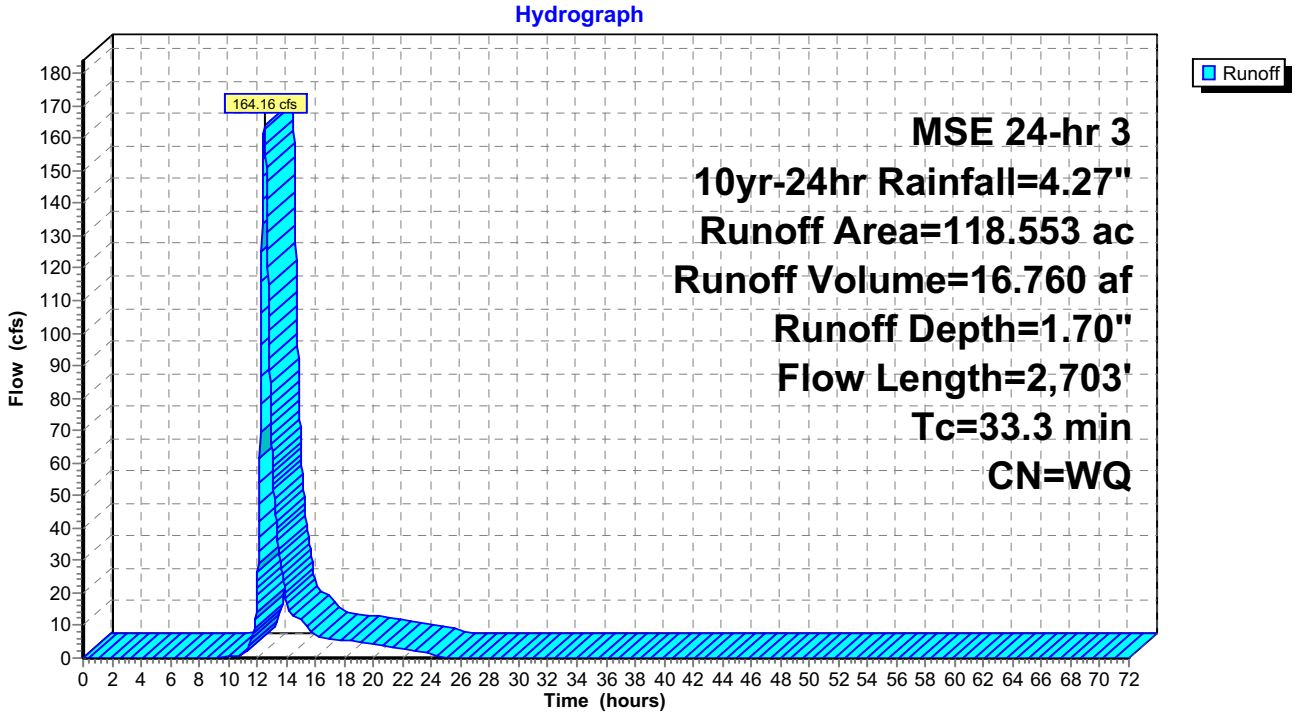
Subcatchment EX_1: EX_1



Summary for Subcatchment EX_2: EX_2

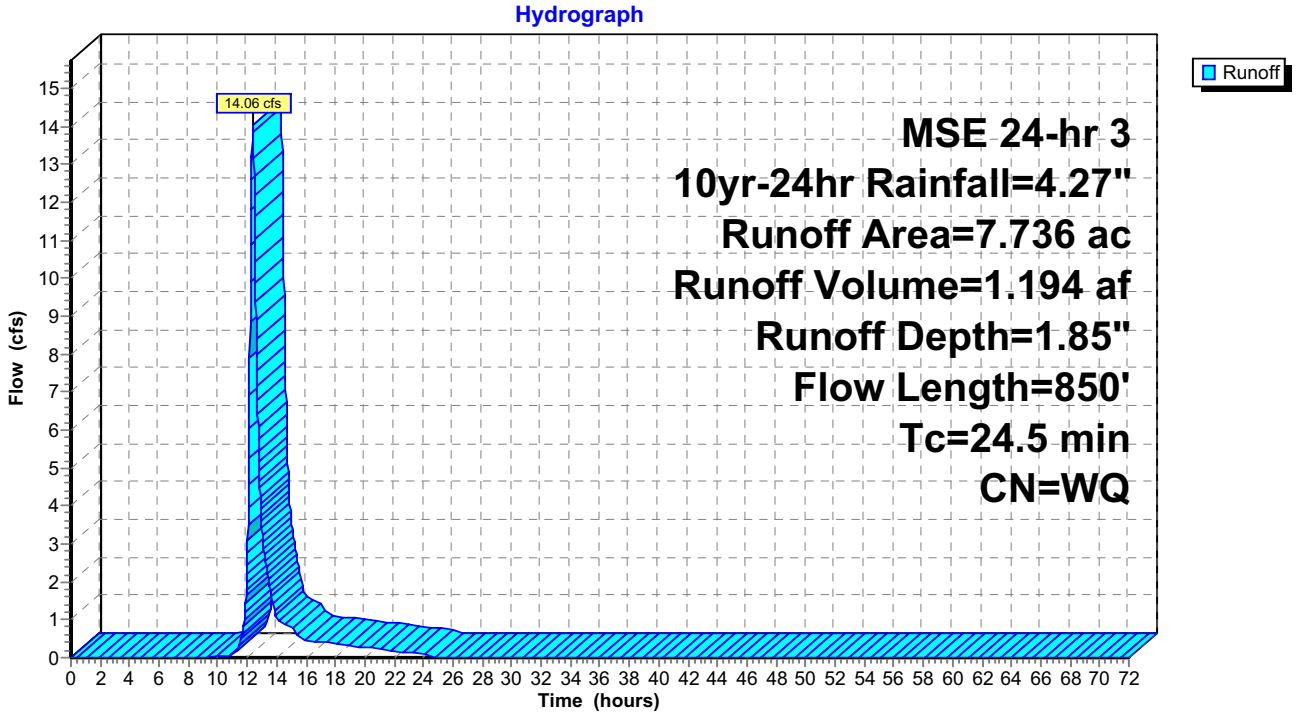
Runoff = 14.06 cfs @ 12.37 hrs, Volume= 1.194 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	6.544	74	>75% Grass cover, Good, HSG C
	0.970	73	Woods, Fair, HSG C
*	0.222	98	Wetland
	7.736		Weighted Average
	7.514		97.13% Pervious Area
	0.222		2.87% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	100	0.0120	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
10.1	500	0.0140	0.83		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	250	0.0160	2.49	2.49	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
24.5	850	Total			

Subcatchment EX_2: EX_2



Summary for Subcatchment EX_3: EX_3

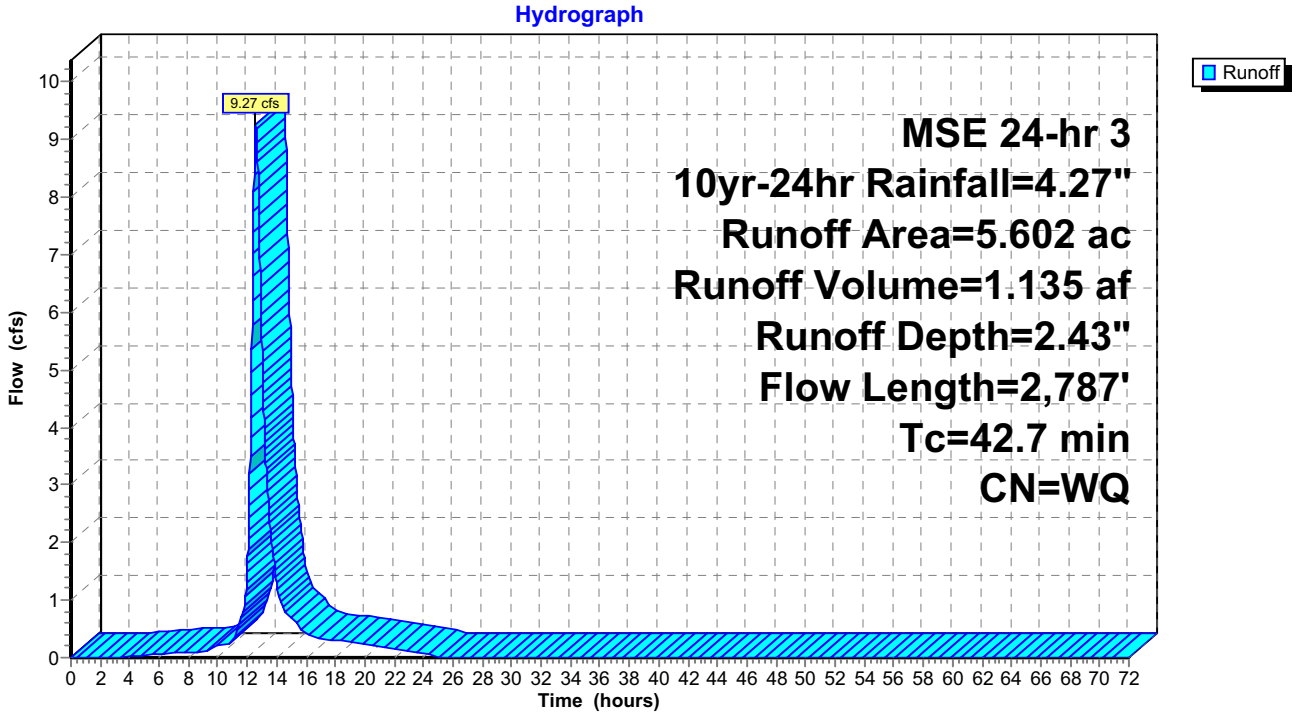
Runoff = 9.27 cfs @ 12.58 hrs, Volume= 1.135 af, Depth= 2.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	1.605	98	Impervious
	3.413	74	>75% Grass cover, Good, HSG C
	0.584	73	Woods, Fair, HSG C
	5.602		Weighted Average
	3.997		71.35% Pervious Area
	1.605		28.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	184	0.0190	0.18		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
7.7	500	0.0240	1.08		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.8	2,103	0.0100	1.97	1.97	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
42.7	2,787	Total			

Subcatchment EX_3: EX_3



Summary for Subcatchment EX_4: EX_4

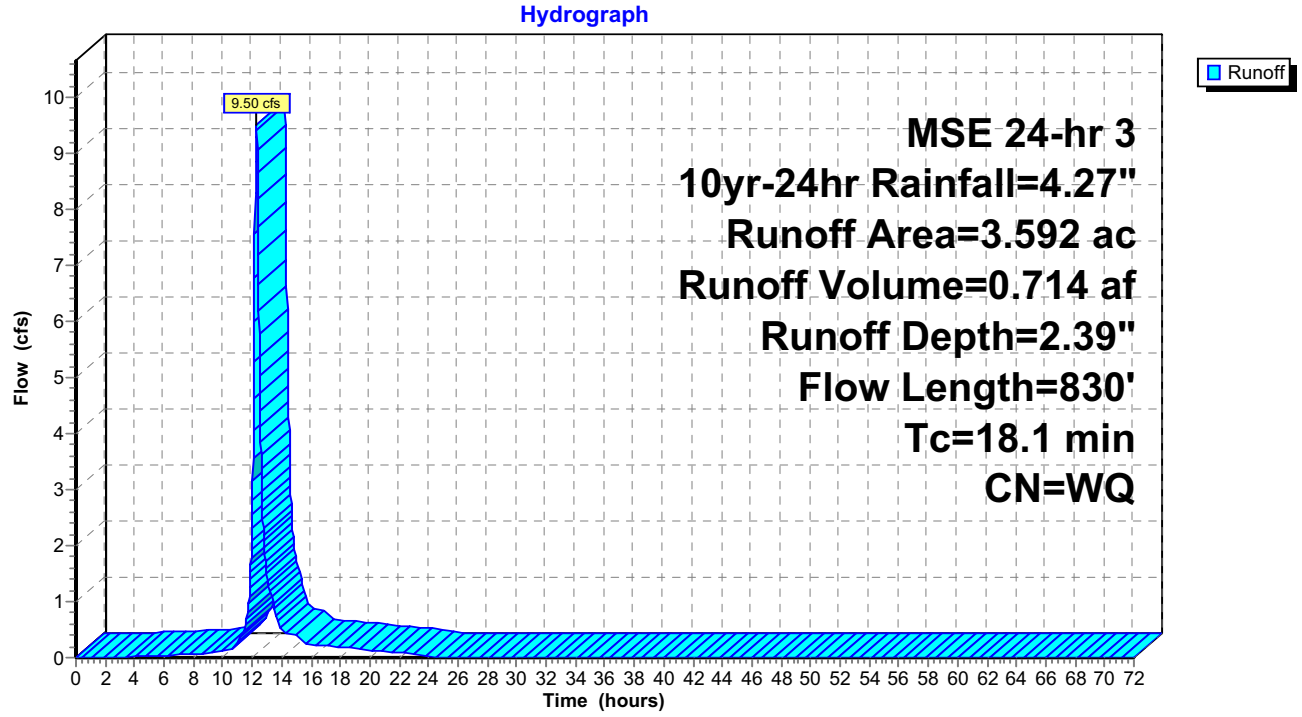
Runoff = 9.50 cfs @ 12.27 hrs, Volume= 0.714 af, Depth= 2.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.950	98	Impervious
	2.483	74	>75% Grass cover, Good, HSG C
	0.159	73	Woods, Fair, HSG C
	3.592		Weighted Average
	2.642		73.55% Pervious Area
	0.950		26.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.0900	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
10.9	500	0.0120	0.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.5	230	0.0174	2.59	2.59	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
18.1	830	Total			

Subcatchment EX_4: EX_4



Summary for Subcatchment EX_5: EX_5

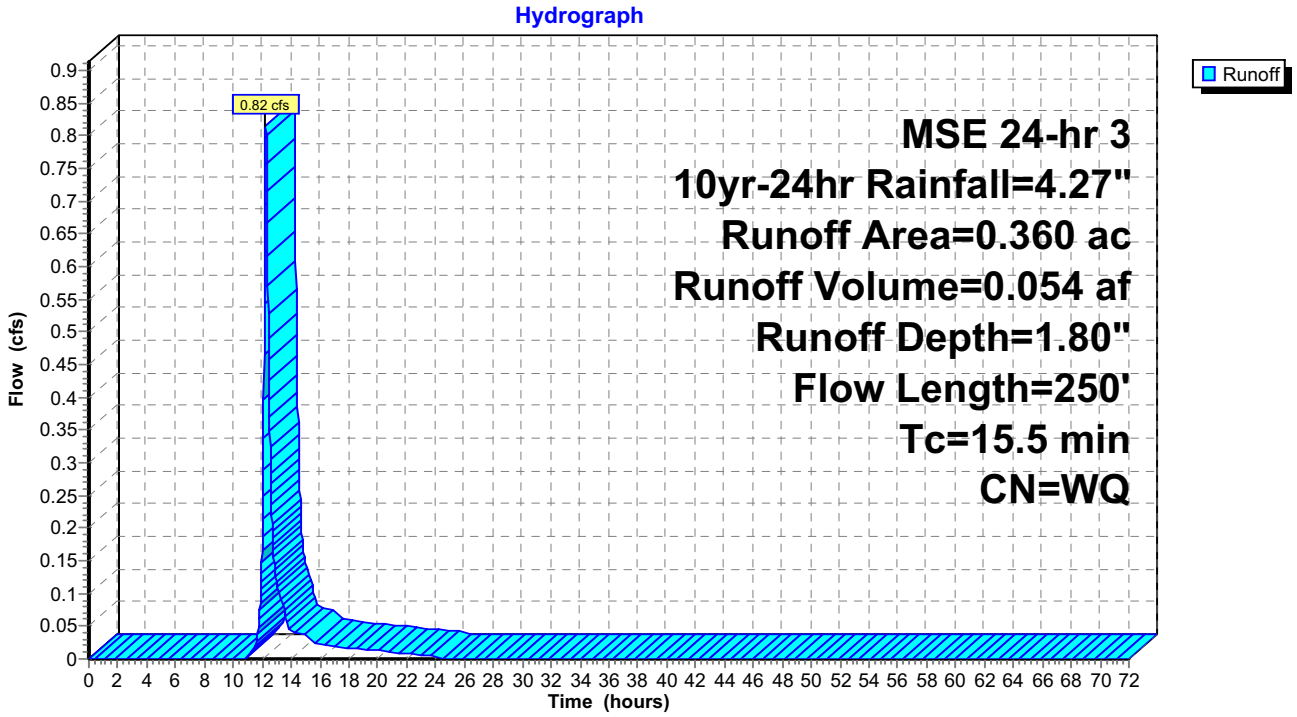
Runoff = 0.82 cfs @ 12.25 hrs, Volume= 0.054 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

Area (ac)	CN	Description
0.359	74	>75% Grass cover, Good, HSG C
0.001	73	Woods, Fair, HSG C
0.360		Weighted Average
0.360		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	100	0.0100	0.12		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
1.8	150	0.0400	1.40		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.5	250	Total			

Subcatchment EX_5: EX_5



Summary for Subcatchment EX_6: EX_6

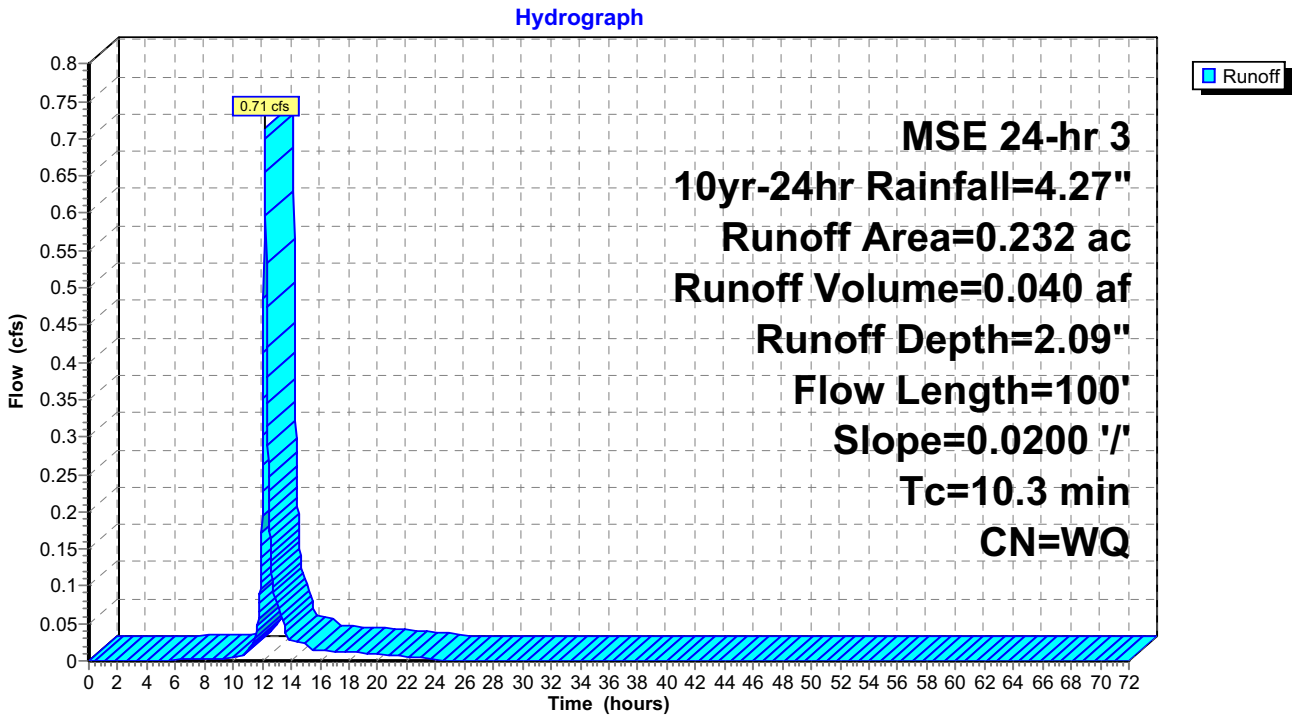
Runoff = 0.71 cfs @ 12.18 hrs, Volume= 0.040 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.202	74	>75% Grass cover, Good, HSG C
*	0.030	98	Impervious
	0.232		Weighted Average
	0.202		87.07% Pervious Area
	0.030		12.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.3	100	0.0200	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment EX_6: EX_6



Summary for Subcatchment EX_7: EX_7

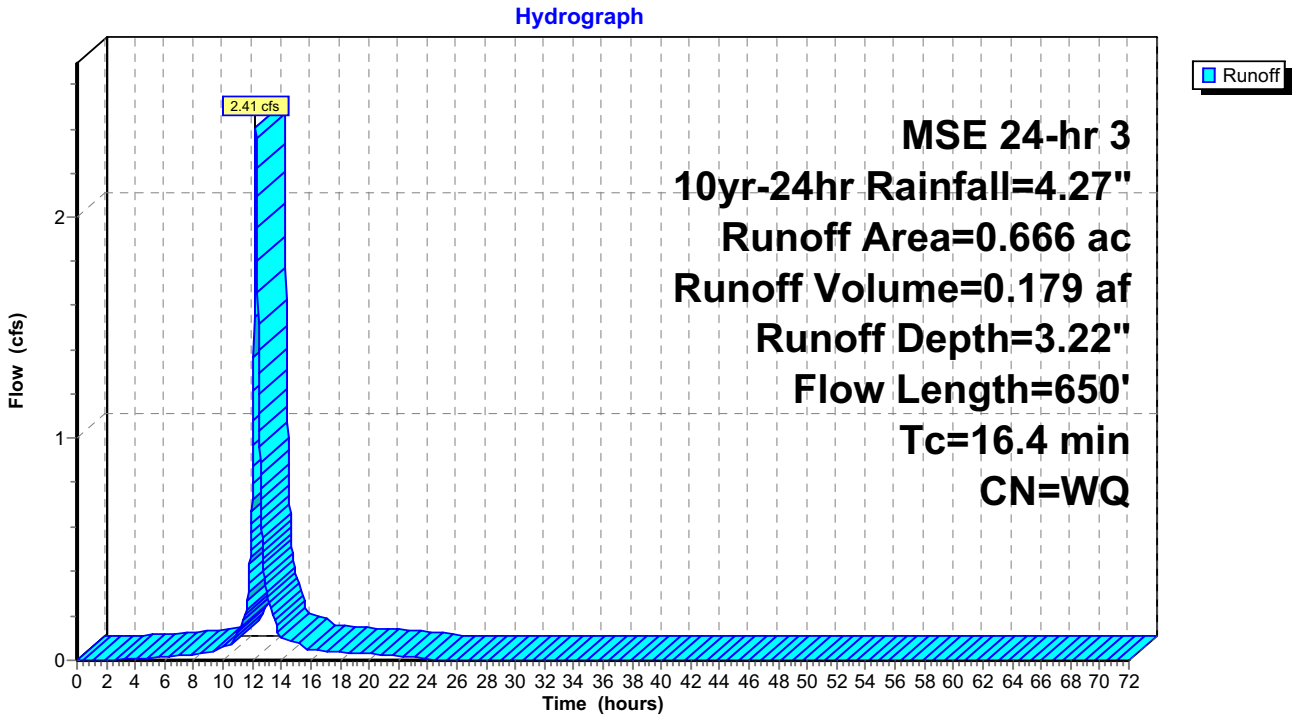
Runoff = 2.41 cfs @ 12.24 hrs, Volume= 0.179 af, Depth= 3.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.242	74	>75% Grass cover, Good, HSG C
*	0.424	98	Impervious
	0.666		Weighted Average
	0.242		36.34% Pervious Area
	0.424		63.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	120	0.0170	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
3.6	530	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.4	650	Total			

Subcatchment EX_7: EX_7



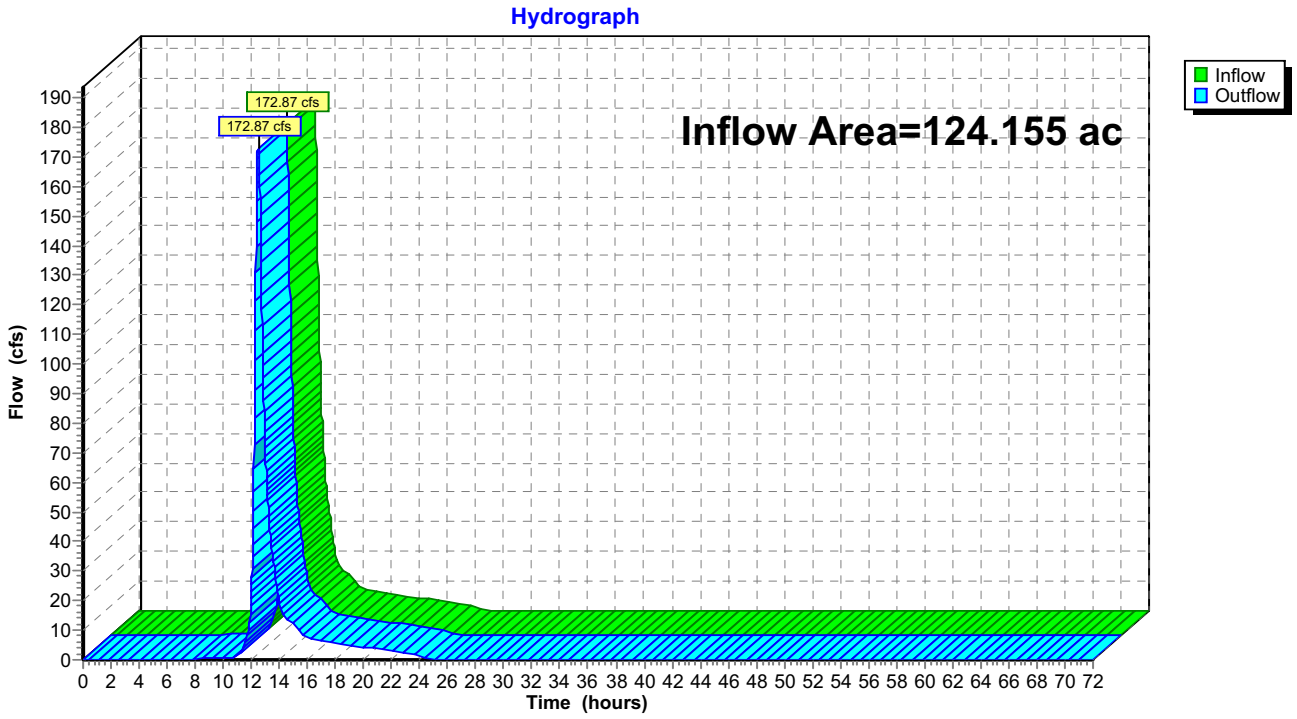
Summary for Reach 1R: Wetland 6

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 124.155 ac, 3.81% Impervious, Inflow Depth = 1.73" for 10yr-24hr event
Inflow = 172.87 cfs @ 12.49 hrs, Volume= 17.895 af
Outflow = 172.87 cfs @ 12.49 hrs, Volume= 17.895 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 1R: Wetland 6



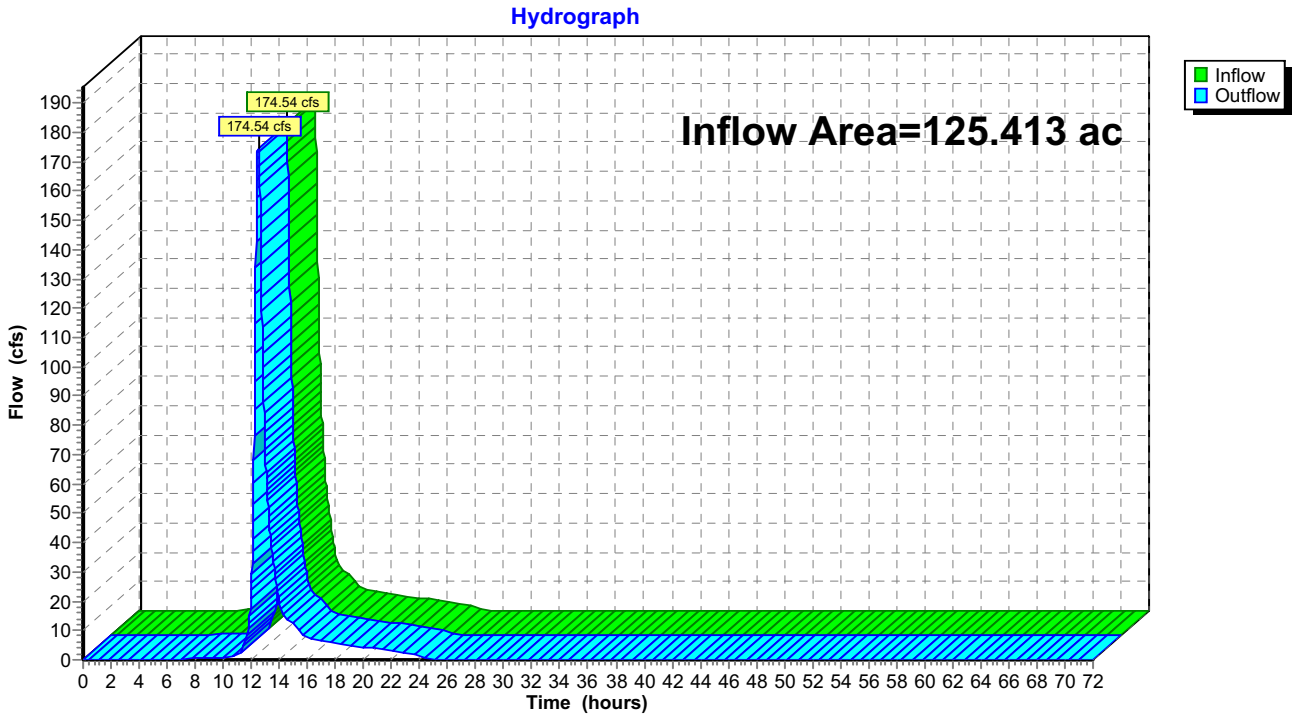
Summary for Reach 10R: Bassett Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 125.413 ac, 4.14% Impervious, Inflow Depth = 1.74" for 10yr-24hr event
Inflow = 174.54 cfs @ 12.49 hrs, Volume= 18.168 af
Outflow = 174.54 cfs @ 12.49 hrs, Volume= 18.168 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 10R: Bassett Creek Watershed



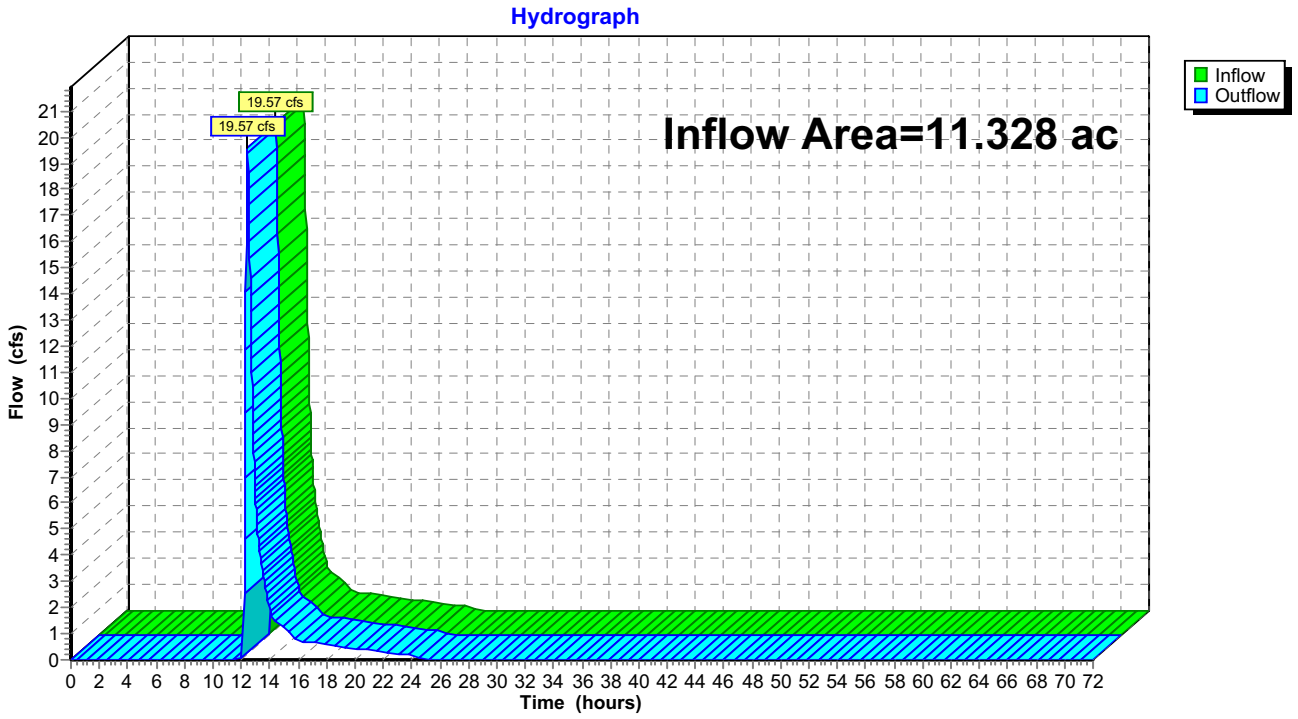
Summary for Reach 11R: Elm Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 11.328 ac, 10.35% Impervious, Inflow Depth = 1.70" for 10yr-24hr event
Inflow = 19.57 cfs @ 12.44 hrs, Volume= 1.608 af
Outflow = 19.57 cfs @ 12.44 hrs, Volume= 1.608 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 11R: Elm Creek Watershed



Summary for Pond 9P: Wetland 9

Inflow Area = 11.328 ac, 10.35% Impervious, Inflow Depth = 2.02" for 10yr-24hr event
Inflow = 22.72 cfs @ 12.32 hrs, Volume= 1.908 af
Outflow = 19.57 cfs @ 12.44 hrs, Volume= 1.608 af, Atten= 14%, Lag= 6.8 min
Primary = 19.57 cfs @ 12.44 hrs, Volume= 1.608 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.00' Surf.Area= 9,469 sf Storage= 6,526 cf
Peak Elev= 1,010.52' @ 12.44 hrs Surf.Area= 16,723 sf Storage= 28,289 cf (21,764 cf above start)

Plug-Flow detention time= 124.5 min calculated for 1.457 af (76% of inflow)
Center-of-Mass det. time= 40.2 min (857.3 - 817.1)

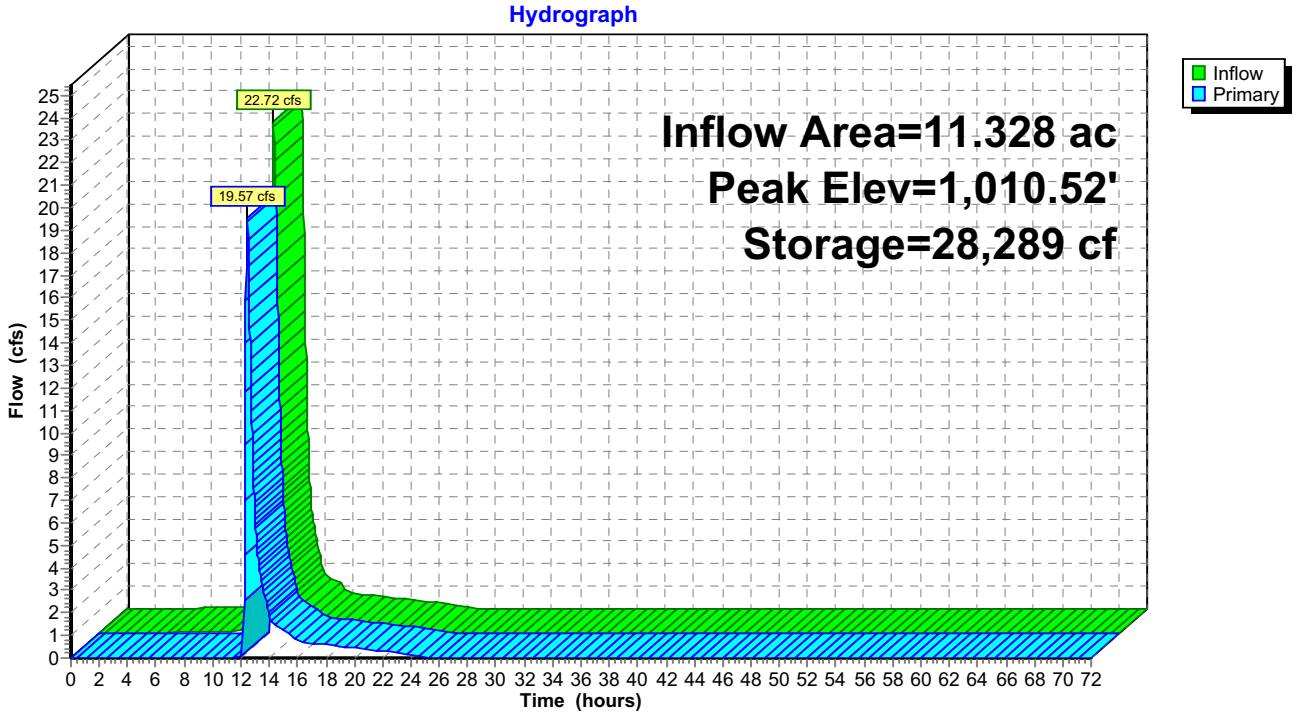
Volume	Invert	Avail.Storage	Storage Description
#1	1,008.00'	36,345 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,008.00	3,582	0	0
1,009.00	9,469	6,526	6,526
1,010.00	16,723	13,096	19,622
1,011.00	16,723	16,723	36,345

Device	Routing	Invert	Outlet Devices
#1	Primary	1,010.00'	**20.0' long x 6.0' 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 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=19.55 cfs @ 12.44 hrs HW=1,010.52' TW=0.00' (Dynamic Tailwater)
↑**1=Broad-Crested Rectangular Weir** (Weir Controls 19.55 cfs @ 1.89 fps)

Pond 9P: Wetland 9



Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentEX_1: EX_1 Runoff Area=118.553 ac 2.64% Impervious Runoff Depth=4.10"
Flow Length=2,703' Tc=33.3 min CN=WQ Runoff=405.81 cfs 40.543 af

SubcatchmentEX_2: EX_2 Runoff Area=7.736 ac 2.87% Impervious Runoff Depth=4.39"
Flow Length=850' Tc=24.5 min CN=WQ Runoff=33.83 cfs 2.829 af

SubcatchmentEX_3: EX_3 Runoff Area=5.602 ac 28.65% Impervious Runoff Depth=5.10"
Flow Length=2,787' Tc=42.7 min CN=WQ Runoff=19.76 cfs 2.381 af

SubcatchmentEX_4: EX_4 Runoff Area=3.592 ac 26.45% Impervious Runoff Depth=5.05"
Flow Length=830' Tc=18.1 min CN=WQ Runoff=20.33 cfs 1.511 af

SubcatchmentEX_5: EX_5 Runoff Area=0.360 ac 0.00% Impervious Runoff Depth=4.32"
Flow Length=250' Tc=15.5 min CN=WQ Runoff=1.98 cfs 0.130 af

SubcatchmentEX_6: EX_6 Runoff Area=0.232 ac 12.93% Impervious Runoff Depth=4.68"
Flow Length=100' Slope=0.0200 '/' Tc=10.3 min CN=WQ Runoff=1.61 cfs 0.090 af

SubcatchmentEX_7: EX_7 Runoff Area=0.666 ac 63.66% Impervious Runoff Depth=6.08"
Flow Length=650' Tc=16.4 min CN=WQ Runoff=4.53 cfs 0.337 af

Reach 1R: Wetland 6 Inflow=424.22 cfs 42.924 af
Outflow=424.22 cfs 42.924 af

Reach 10R: Bassett Creek Watershed Inflow=427.70 cfs 43.482 af
Outflow=427.70 cfs 43.482 af

Reach 11R: Elm Creek Watershed Inflow=49.74 cfs 4.039 af
Outflow=49.74 cfs 4.039 af

Pond 9P: Wetland 9 Peak Elev=1,010.95' Storage=35,531 cf Inflow=52.52 cfs 4.339 af
Outflow=49.74 cfs 4.039 af

Total Runoff Area = 136.741 ac Runoff Volume = 47.821 af Average Runoff Depth = 4.20"
95.35% Pervious = 130.383 ac 4.65% Impervious = 6.358 ac

Summary for Subcatchment EX_1: EX_1

Runoff = 405.81 cfs @ 12.47 hrs, Volume= 40.543 af, Depth= 4.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.061	87	Dirt roads, HSG C
*	2.235	98	Impervious
	5.656	39	>75% Grass cover, Good, HSG A
	9.869	61	>75% Grass cover, Good, HSG B
	92.243	74	>75% Grass cover, Good, HSG C
	0.482	60	Woods, Fair, HSG B
	7.115	73	Woods, Fair, HSG C
*	0.892	98	Wetland
	118.553		Weighted Average
	115.426		97.36% Pervious Area
	3.127		2.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.0400	0.21		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
7.7	500	0.0240	1.08		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.8	2,103	0.0100	1.97	1.97	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030 Stream, clean & straight
33.3	2,703	Total			

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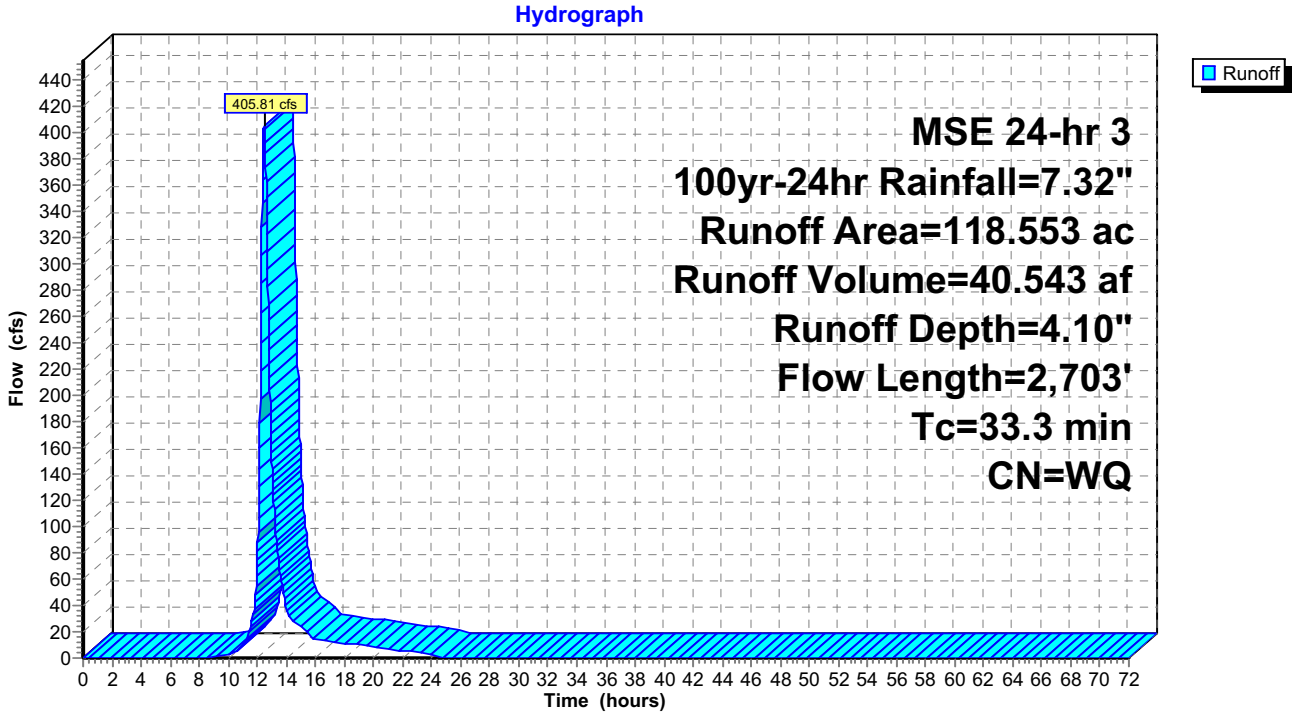
Subcatchment EX_1: EX_1



Summary for Subcatchment EX_2: EX_2

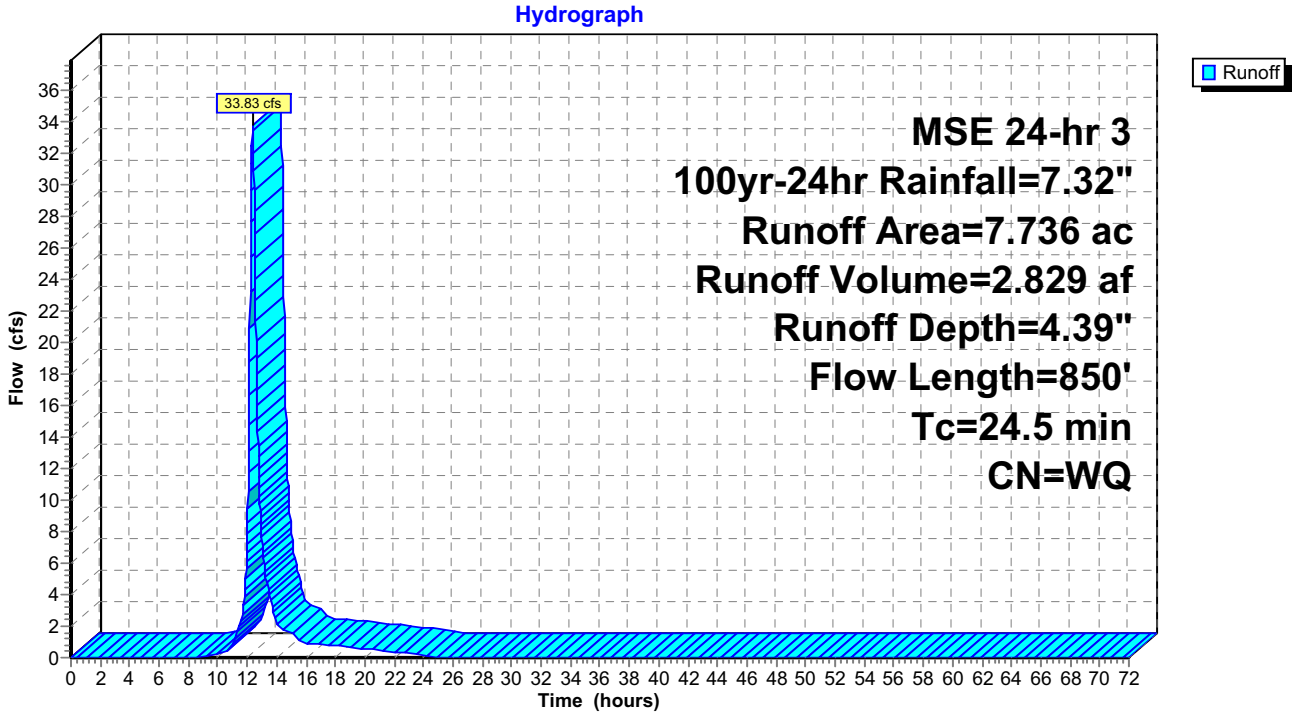
Runoff = 33.83 cfs @ 12.35 hrs, Volume= 2.829 af, Depth= 4.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	6.544	74	>75% Grass cover, Good, HSG C
	0.970	73	Woods, Fair, HSG C
*	0.222	98	Wetland
	7.736		Weighted Average
	7.514		97.13% Pervious Area
	0.222		2.87% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	100	0.0120	0.13		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
10.1	500	0.0140	0.83		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	250	0.0160	2.49	2.49	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
24.5	850	Total			

Subcatchment EX_2: EX_2



Summary for Subcatchment EX_3: EX_3

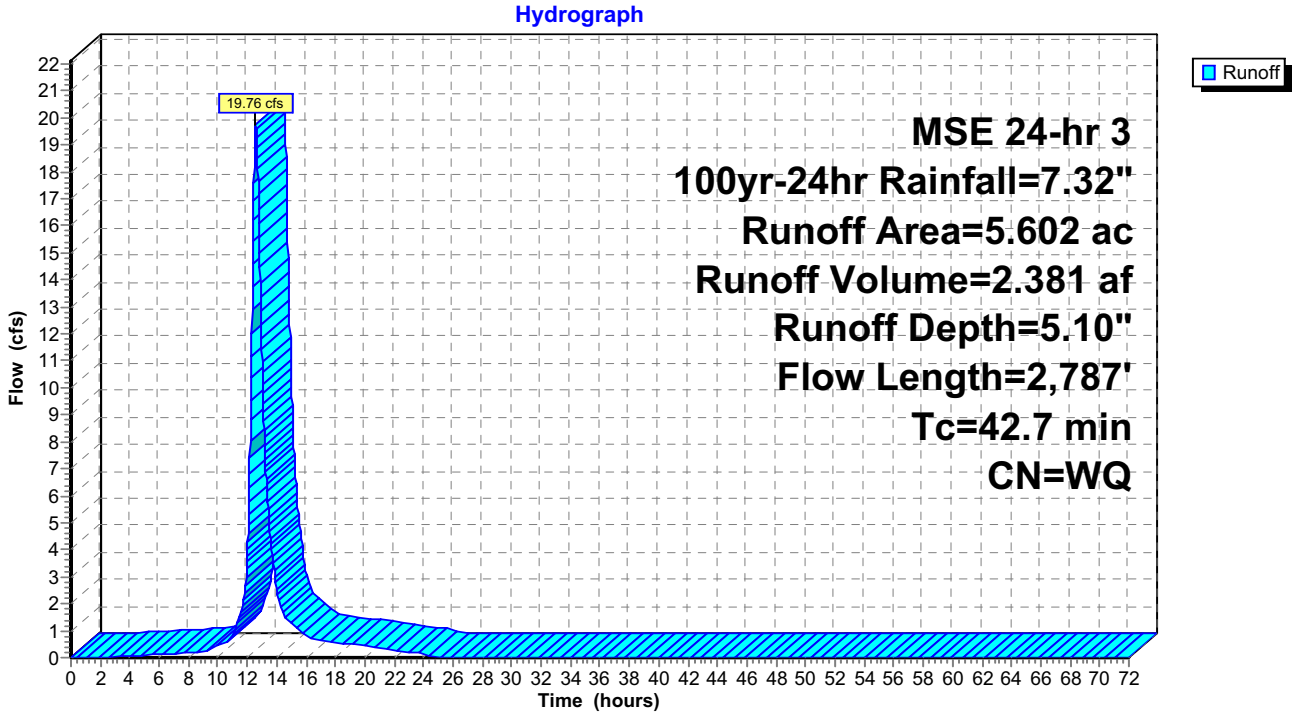
Runoff = 19.76 cfs @ 12.58 hrs, Volume= 2.381 af, Depth= 5.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	1.605	98	Impervious
	3.413	74	>75% Grass cover, Good, HSG C
	0.584	73	Woods, Fair, HSG C
	5.602		Weighted Average
	3.997		71.35% Pervious Area
	1.605		28.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.2	184	0.0190	0.18		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
7.7	500	0.0240	1.08		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.8	2,103	0.0100	1.97	1.97	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
42.7	2,787	Total			

Subcatchment EX_3: EX_3



Summary for Subcatchment EX_4: EX_4

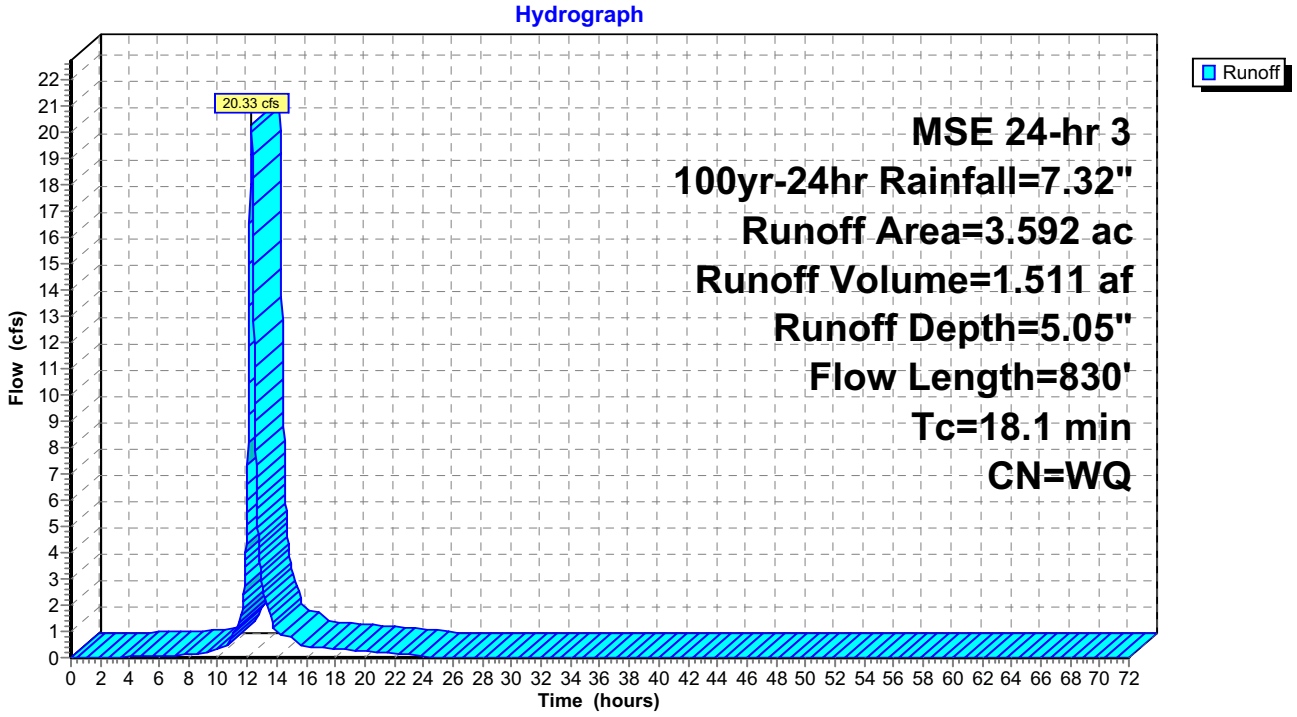
Runoff = 20.33 cfs @ 12.27 hrs, Volume= 1.511 af, Depth= 5.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.950	98	Impervious
	2.483	74	>75% Grass cover, Good, HSG C
	0.159	73	Woods, Fair, HSG C
	3.592		Weighted Average
	2.642		73.55% Pervious Area
	0.950		26.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.0900	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
10.9	500	0.0120	0.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.5	230	0.0174	2.59	2.59	**Channel Flow,** Area= 1.0 sf Perim= 4.0' r= 0.25' n= 0.030
18.1	830	Total			

Subcatchment EX_4: EX_4



Summary for Subcatchment EX_5: EX_5

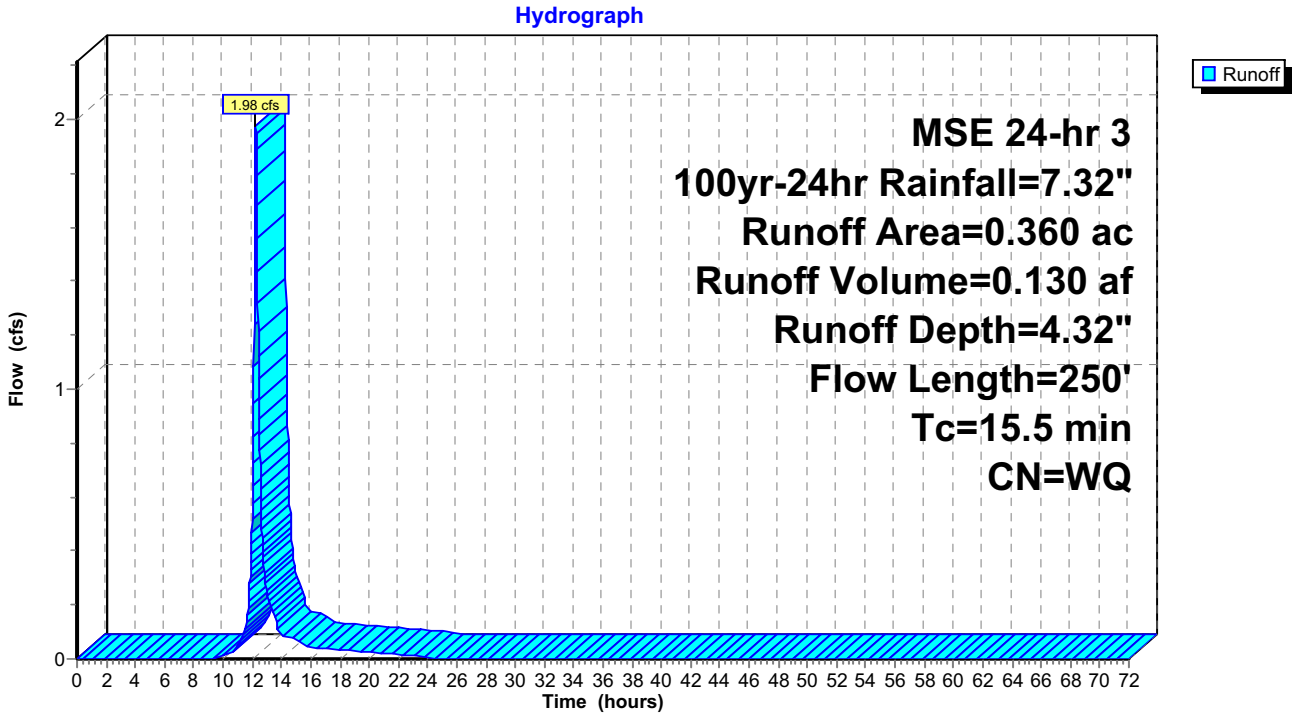
Runoff = 1.98 cfs @ 12.24 hrs, Volume= 0.130 af, Depth= 4.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

Area (ac)	CN	Description
0.359	74	>75% Grass cover, Good, HSG C
0.001	73	Woods, Fair, HSG C
0.360		Weighted Average
0.360		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	100	0.0100	0.12		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
1.8	150	0.0400	1.40		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.5	250	Total			

Subcatchment EX_5: EX_5



Summary for Subcatchment EX_6: EX_6

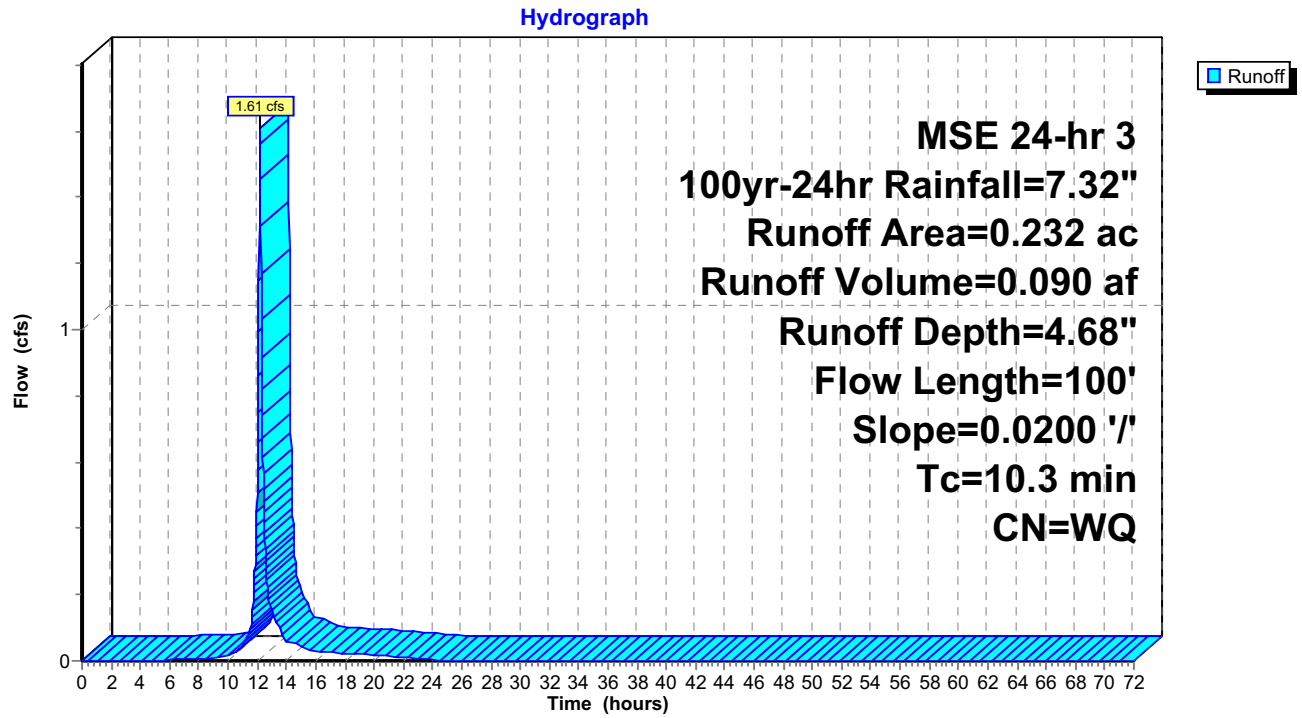
Runoff = 1.61 cfs @ 12.18 hrs, Volume= 0.090 af, Depth= 4.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.202	74	>75% Grass cover, Good, HSG C
*	0.030	98	Impervious
	0.232		Weighted Average
	0.202		87.07% Pervious Area
	0.030		12.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.3	100	0.0200	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment EX_6: EX_6



Summary for Subcatchment EX_7: EX_7

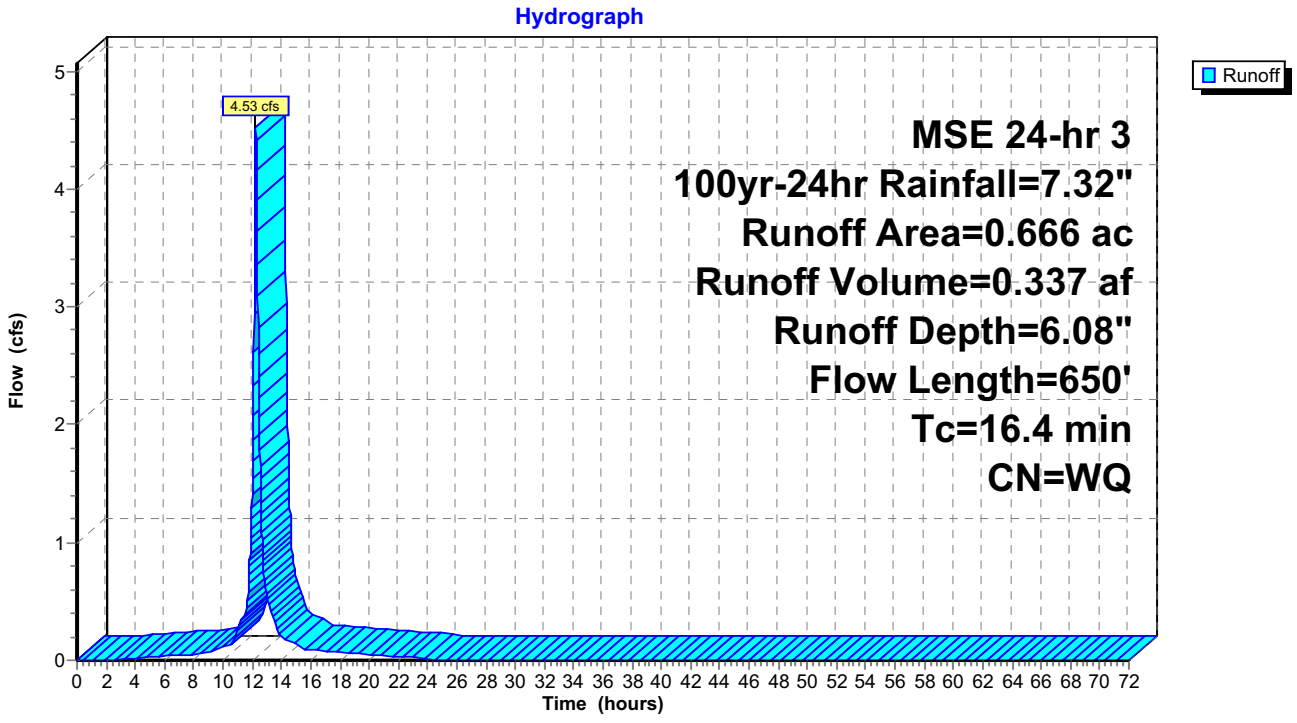
Runoff = 4.53 cfs @ 12.24 hrs, Volume= 0.337 af, Depth= 6.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.242	74	>75% Grass cover, Good, HSG C
*	0.424	98	Impervious
	0.666		Weighted Average
	0.242		36.34% Pervious Area
	0.424		63.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	120	0.0170	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
3.6	530	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
16.4	650	Total			

Subcatchment EX_7: EX_7



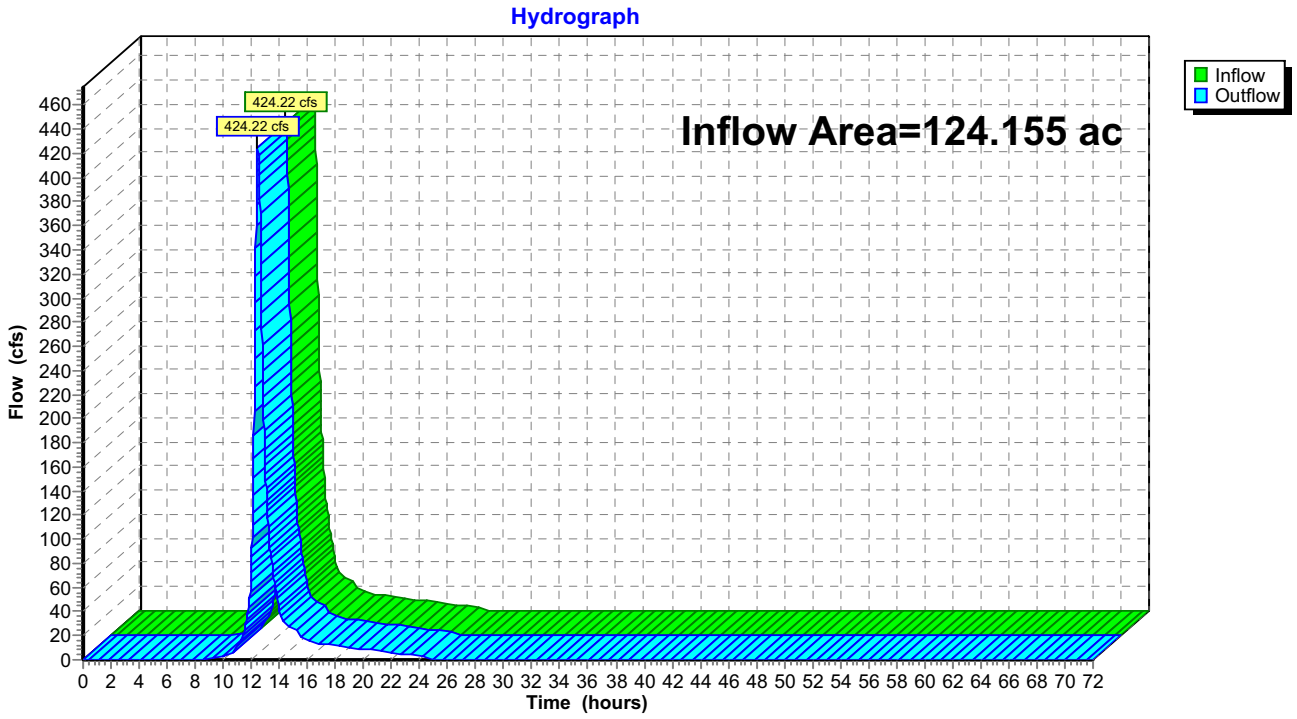
Summary for Reach 1R: Wetland 6

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 124.155 ac, 3.81% Impervious, Inflow Depth = 4.15" for 100yr-24hr event
Inflow = 424.22 cfs @ 12.47 hrs, Volume= 42.924 af
Outflow = 424.22 cfs @ 12.47 hrs, Volume= 42.924 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 1R: Wetland 6



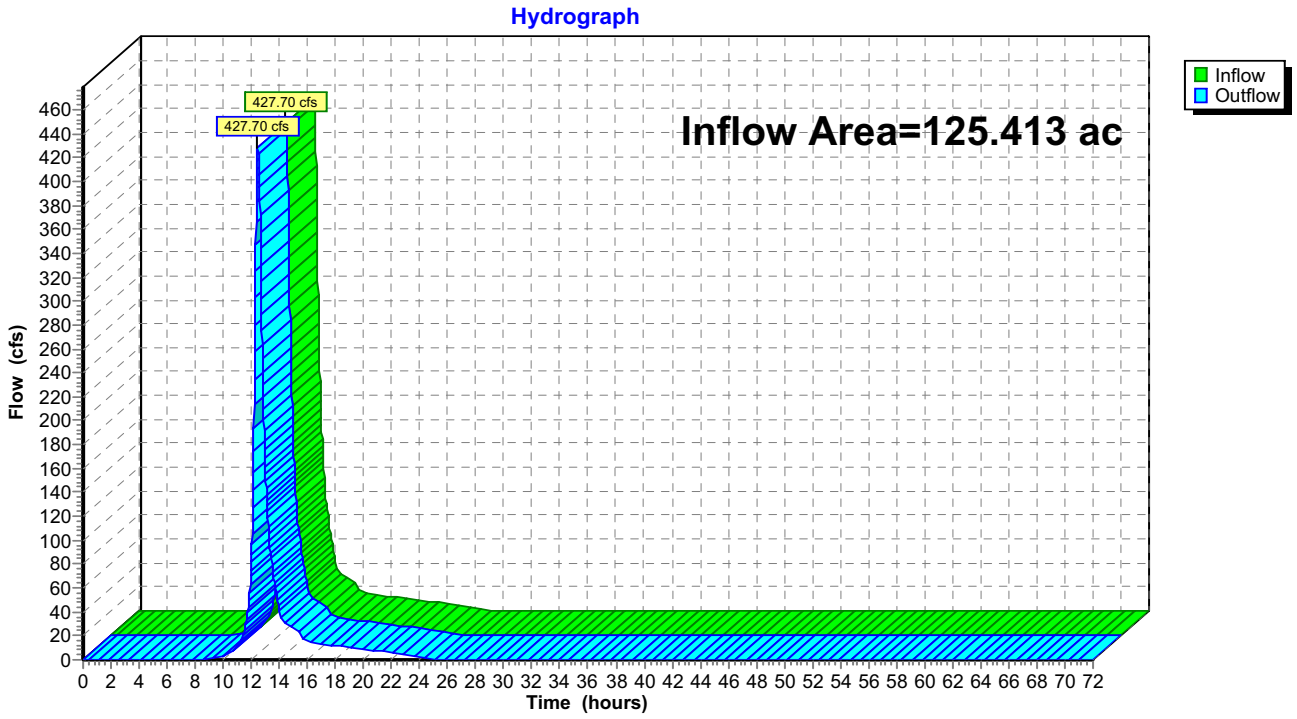
Summary for Reach 10R: Bassett Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 125.413 ac, 4.14% Impervious, Inflow Depth = 4.16" for 100yr-24hr event
Inflow = 427.70 cfs @ 12.47 hrs, Volume= 43.482 af
Outflow = 427.70 cfs @ 12.47 hrs, Volume= 43.482 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 10R: Bassett Creek Watershed



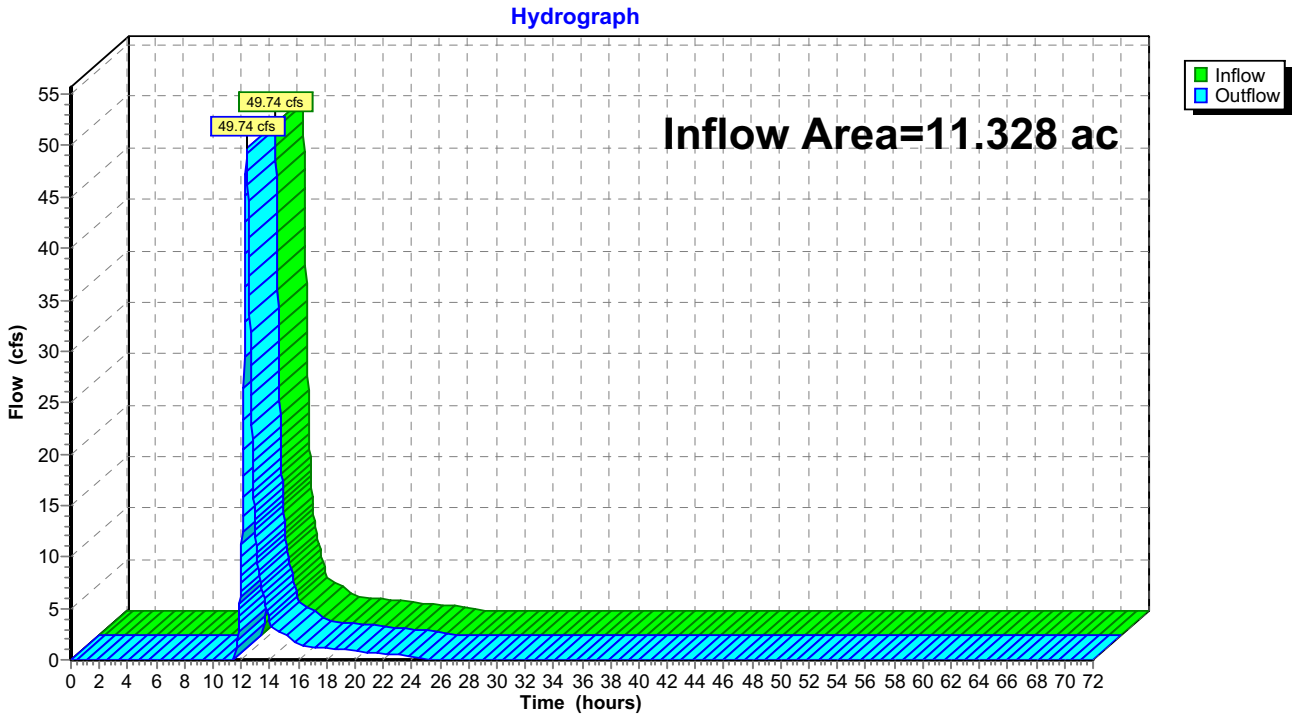
Summary for Reach 11R: Elm Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 11.328 ac, 10.35% Impervious, Inflow Depth = 4.28" for 100yr-24hr event
Inflow = 49.74 cfs @ 12.38 hrs, Volume= 4.039 af
Outflow = 49.74 cfs @ 12.38 hrs, Volume= 4.039 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 11R: Elm Creek Watershed



Summary for Pond 9P: Wetland 9

Inflow Area = 11.328 ac, 10.35% Impervious, Inflow Depth = 4.60" for 100yr-24hr event
Inflow = 52.52 cfs @ 12.32 hrs, Volume= 4.339 af
Outflow = 49.74 cfs @ 12.38 hrs, Volume= 4.039 af, Atten= 5%, Lag= 3.8 min
Primary = 49.74 cfs @ 12.38 hrs, Volume= 4.039 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.00' Surf.Area= 9,469 sf Storage= 6,526 cf
Peak Elev= 1,010.95' @ 12.38 hrs Surf.Area= 16,723 sf Storage= 35,531 cf (29,006 cf above start)

Plug-Flow detention time= 73.5 min calculated for 3.889 af (90% of inflow)
Center-of-Mass det. time= 24.9 min (829.2 - 804.3)

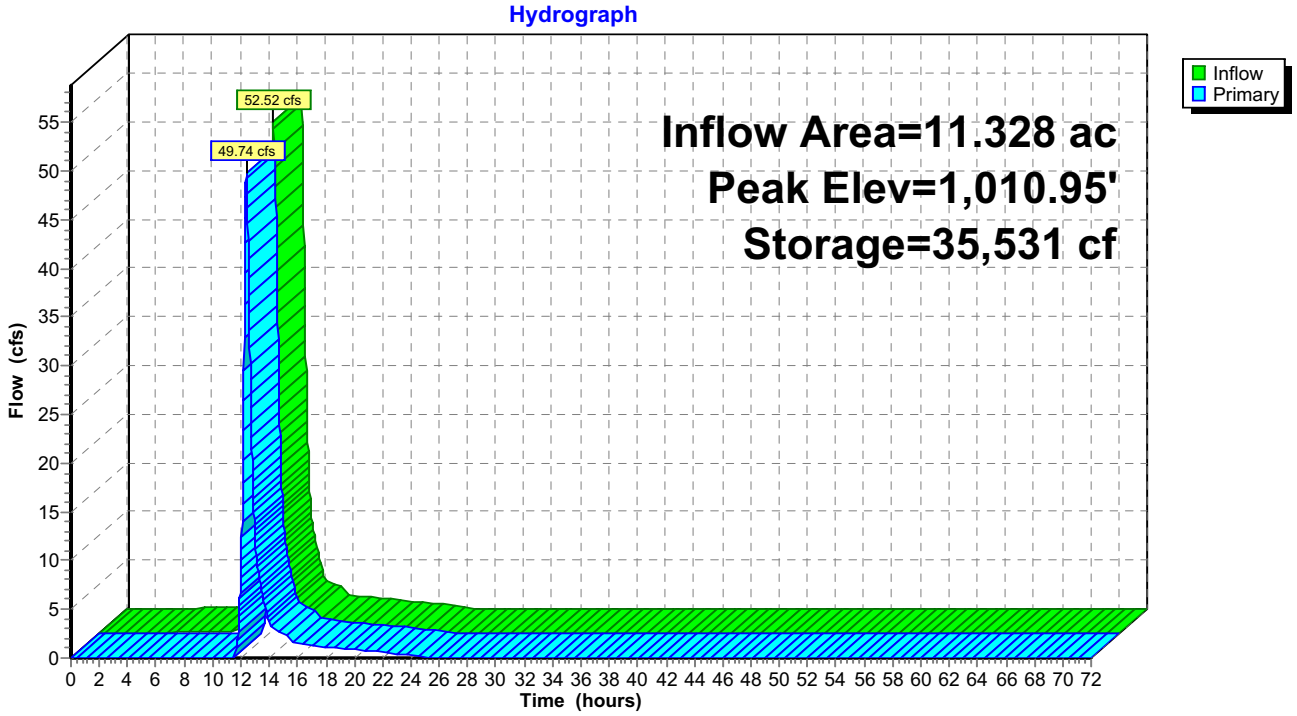
Volume	Invert	Avail.Storage	Storage Description
#1	1,008.00'	36,345 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

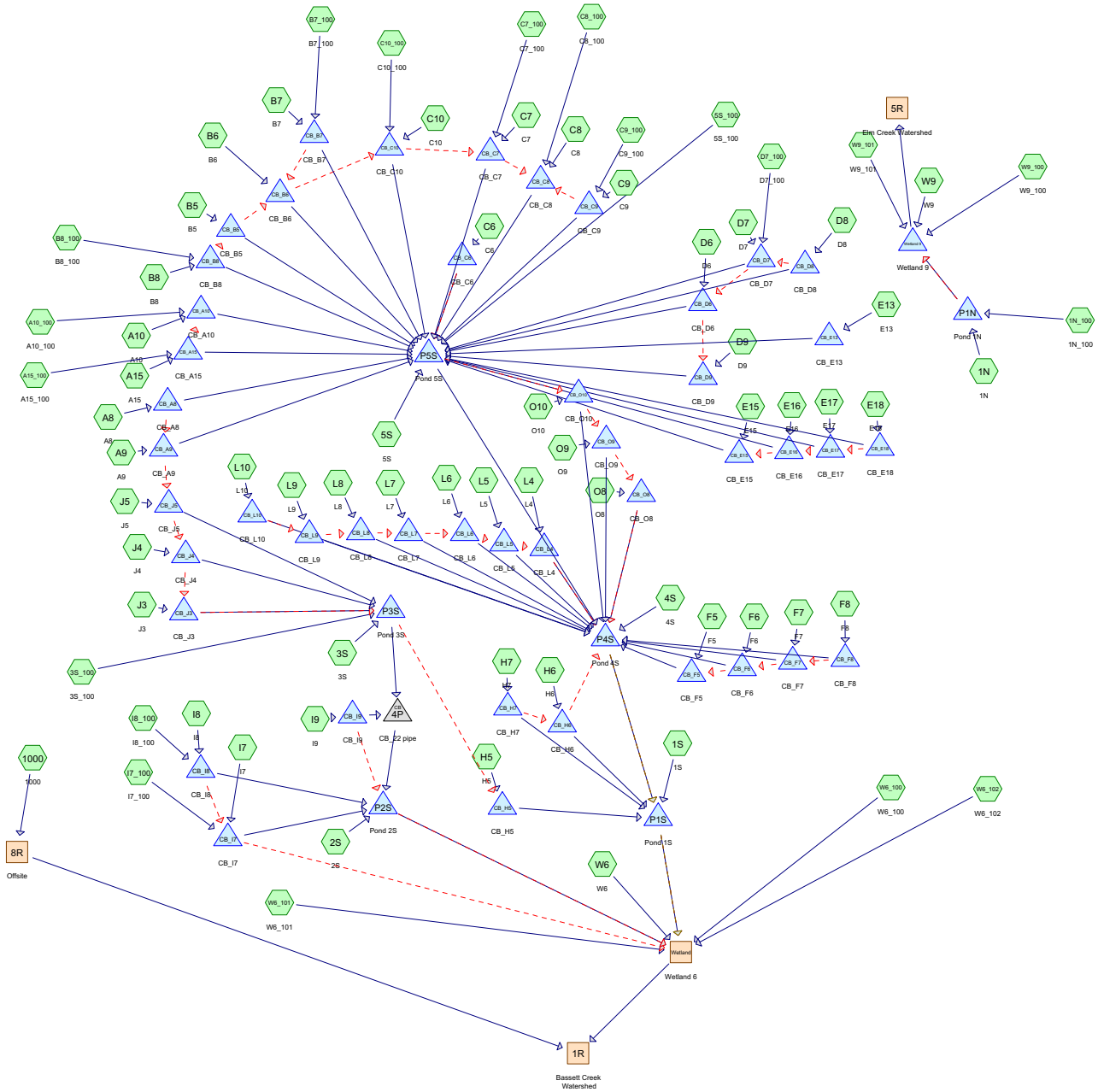
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,008.00	3,582	0	0
1,009.00	9,469	6,526	6,526
1,010.00	16,723	13,096	19,622
1,011.00	16,723	16,723	36,345

Device	Routing	Invert	Outlet Devices
#1	Primary	1,010.00'	**20.0' long x 6.0' 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 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=49.72 cfs @ 12.38 hrs HW=1,010.95' TW=0.00' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 49.72 cfs @ 2.61 fps)

Pond 9P: Wetland 9





Subcat Reach Pond Link

Routing Diagram for Hollydale - Proposed Conditions - 6.25.2020

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
2.657	39	>75% Grass cover, Good, HSG A (5S, L8, L9)
6.223	61	>75% Grass cover, Good, HSG B (1S, 4S, H5, H6, H7, L4)
81.378	74	>75% Grass cover, Good, HSG C (1N, 1N_100, 1S, 2S, 3S, 3S_100, 4S, 5S, 5S_100, 1000, A10, A15, A8, A9, B5, B6, B7, B7_100, B8, B8_100, C10, C10_100, C6, C7, C7_100, C8, C8_100, C9, C9_100, D6, D7, D7_100, D8, D9, E13, E15, E16, E17, E18, F5, F6, F7, F8, H5, H6, H7, I7, I7_100, I8, I8_100, I9, J3, J4, J5, L10, L4, L5, L6, L7, L8, L9, O10, O8, O9, W6, W6_100, W6_101, W6_102, W9, W9_100, W9_101)
34.172	98	Impervious (1N, 1N_100, 1S, 2S, 3S, 3S_100, 4S, 5S, 5S_100, 1000, A10, A10_100, A15, A15_100, A8, A9, B5, B6, B7_100, B8, B8_100, C10, C10_100, C6, C7, C7_100, C8, C8_100, C9, C9_100, D6, D7, D7_100, D8, D9, E13, E15, E16, E17, E18, F5, F6, F7, F8, H5, H6, H7, I7, I7_100, I8, I8_100, I9, J3, J5, L10, L4, L5, L6, L7, L8, L9, O10, O8, O9, W6, W6_101, W9_100, W9_101)
8.970	98	Pond (1N, 1S, 2S, 3S, 4S, 5S, B7, W9)
3.336	73	Woods, Fair, HSG C (1N_100, B5, B8, W6, W6_100, W6_101, W9, W9_100)
136.736	**80**	**TOTAL AREA**

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
2.657	HSG A	5S, L8, L9
6.223	HSG B	1S, 4S, H5, H6, H7, L4
84.714	HSG C	1N, 1N_100, 1S, 2S, 3S, 3S_100, 4S, 5S, 5S_100, 1000, A10, A15, A8, A9, B5, B6, B7, B7_100, B8, B8_100, C10, C10_100, C6, C7, C7_100, C8, C8_100, C9, C9_100, D6, D7, D7_100, D8, D9, E13, E15, E16, E17, E18, F5, F6, F7, F8, H5, H6, H7, I7, I7_100, I8, I8_100, I9, J3, J4, J5, L10, L4, L5, L6, L7, L8, L9, O10, O8, O9, W6, W6_100, W6_101, W6_102, W9, W9_100, W9_101
0.000	HSG D	
43.142	Other	1N, 1N_100, 1S, 2S, 3S, 3S_100, 4S, 5S, 5S_100, 1000, A10, A10_100, A15, A15_100, A8, A9, B5, B6, B7, B7_100, B8, B8_100, C10, C10_100, C6, C7, C7_100, C8, C8_100, C9, C9_100, D6, D7, D7_100, D8, D9, E13, E15, E16, E17, E18, F5, F6, F7, F8, H5, H6, H7, I7, I7_100, I8, I8_100, I9, J3, J5, L10, L4, L5, L6, L7, L8, L9, O10, O8, O9, W6, W6_101, W9, W9_100, W9_101
136.736		**TOTAL AREA**

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
2.657	6.223	81.378	0.000	0.000	90.258	>75% Grass cover, Good	1N, 1N_100, 1S, 2S, 3S, 3S_100, 4S, 5S, 5S_100, 1000, A10, A15, A8, A9, B5, B6, B7, B7_100, B8, B8_100, C10, C10_100, C6, C7, C7_100, C8, C8_100, C9, C9_100, D6, D7, D7_100, D8, D9, E13, E15, E16, E17, E18, F5, F6, F7, F8, H5, H6, H7, I7, I7_100, I8, I8_100, I9, J3, J4, J5, L10, L4, L5, L6, L7, L8,

Hollydale - Proposed Conditions - 6.25.2020

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Ground Covers (all nodes) (continued)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.000	34.172	34.172	Impervious	1N, 1N_100, 1S, 2S, 3S, 3S_100, 4S, 5S, 5S_100, 1000, A10, A10_100, A15, A15_100, A8, A9, B5, B6, B7_100, B8, B8_100, C10, C10_100, C6, C7, C7_100, C8, C8_100, C9, C9_100, D6, D7, D7_100, D8, D9, E13, E15, E16, E17, E18, F5, F6, F7, F8, H5, H6, H7, I7, I7_100, I8, I8_100, I9, J3, J5, L10, L4, L5,

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Ground Covers (all nodes) (continued)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.000	8.970	8.970	Pond	1N, 1S, 2S, 3S, 4S, 5S, B7, W9
0.000	0.000	3.336	0.000	0.000	3.336	Woods, Fair	1N_100, B5, B8, W6, W6_100, W6_101, W9, W9_100
2.657	**6.223**	**84.714**	**0.000**	**43.142**	**136.736**	**TOTAL AREA**	

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Diam/Width (inches)	Height (inches)	Inside-Fill (inches)
1	4P	969.20	969.00	40.7	0.0049	0.013	24.0	0.0	0.0
2	4P	969.50	969.20	87.0	0.0034	0.013	21.0	0.0	0.0
3	P1N	1,009.50	1,009.10	43.3	0.0092	0.013	15.0	0.0	0.0
4	P1N	1,006.50	1,007.00	30.7	-0.0163	0.013	15.0	0.0	0.0
5	P1S	967.00	966.50	35.4	0.0141	0.013	30.0	0.0	0.0
6	P1S	966.00	967.00	21.6	-0.0463	0.013	30.0	0.0	0.0
7	P2S	969.00	967.90	32.8	0.0335	0.013	24.0	0.0	0.0
8	P2S	966.00	967.00	36.7	-0.0272	0.013	24.0	0.0	0.0
9	P3S	970.00	969.50	108.4	0.0046	0.013	21.0	0.0	0.0
10	P3S	970.50	970.00	26.5	0.0189	0.013	21.0	0.0	0.0
11	P3S	972.00	971.50	30.5	0.0164	0.013	21.0	0.0	0.0
12	P3S	973.00	972.00	152.2	0.0066	0.013	21.0	0.0	0.0
13	P3S	968.00	970.00	35.6	-0.0562	0.013	21.0	0.0	0.0
14	P4S	967.50	967.00	258.6	0.0019	0.013	58.5	36.0	0.0
15	P4S	963.00	964.00	30.0	-0.0333	0.013	58.5	36.0	0.0
16	P4S	969.00	967.00	147.0	0.0136	0.013	36.0	0.0	0.0
17	P4S	969.50	969.00	24.5	0.0204	0.013	36.0	0.0	0.0
18	P4S	970.50	969.50	64.7	0.0155	0.013	36.0	0.0	0.0
19	P5S	970.00	968.50	192.5	0.0078	0.013	18.0	0.0	0.0
20	P5S	972.00	970.00	70.0	0.0286	0.013	18.0	0.0	0.0
21	P5S	974.00	973.00	50.0	0.0200	0.013	18.0	0.0	0.0
22	P5S	978.00	974.00	108.6	0.0368	0.013	18.0	0.0	0.0
23	P5S	975.00	975.50	29.0	-0.0172	0.013	21.0	0.0	0.0

Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1N: 1N Runoff Area=4.840 ac 30.45% Impervious Runoff Depth=1.38"
Tc=12.0 min CN=WQ Runoff=8.72 cfs 0.556 af

Subcatchment1N_100: 1N_100 Runoff Area=0.554 ac 22.74% Impervious Runoff Depth=1.23"
Flow Length=300' Slope=0.0730 '/' Tc=14.8 min CN=WQ Runoff=0.81 cfs 0.057 af

Subcatchment1S: 1S Runoff Area=13.917 ac 49.29% Impervious Runoff Depth=1.65"
Tc=12.0 min CN=WQ Runoff=29.30 cfs 1.916 af

Subcatchment2S: 2S Runoff Area=4.152 ac 49.86% Impervious Runoff Depth=1.73"
Tc=12.0 min CN=WQ Runoff=9.29 cfs 0.599 af

Subcatchment3S: 3S Runoff Area=9.641 ac 44.37% Impervious Runoff Depth=1.63"
Tc=12.0 min CN=WQ Runoff=20.38 cfs 1.310 af

Subcatchment3S_100: 3S_100 Runoff Area=0.507 ac 69.43% Impervious Runoff Depth=2.08"
Tc=12.0 min CN=WQ Runoff=1.36 cfs 0.088 af

Subcatchment4S: 4S Runoff Area=9.003 ac 34.97% Impervious Runoff Depth=1.31"
Tc=12.0 min CN=WQ Runoff=14.82 cfs 0.985 af

Subcatchment5S: 5S Runoff Area=28.318 ac 47.45% Impervious Runoff Depth=1.61"
Tc=12.0 min CN=WQ Runoff=58.93 cfs 3.803 af

Subcatchment5S_100: 5S_100 Runoff Area=0.289 ac 46.02% Impervious Runoff Depth=1.66"
Tc=12.0 min CN=WQ Runoff=0.62 cfs 0.040 af

Subcatchment1000: 1000 Runoff Area=0.038 ac 36.84% Impervious Runoff Depth=1.49"
Flow Length=115' Slope=0.0170 '/' Tc=12.3 min CN=WQ Runoff=0.07 cfs 0.005 af

SubcatchmentA10: A10 Runoff Area=0.830 ac 22.77% Impervious Runoff Depth=1.24"
Tc=12.0 min CN=WQ Runoff=1.35 cfs 0.086 af

SubcatchmentA10_100: A10_100 Runoff Area=0.034 ac 100.00% Impervious Runoff Depth=2.64"
Tc=12.0 min CN=98 Runoff=0.11 cfs 0.007 af

SubcatchmentA15: A15 Runoff Area=0.669 ac 25.11% Impervious Runoff Depth=1.28"
Tc=12.0 min CN=WQ Runoff=1.13 cfs 0.071 af

SubcatchmentA15_100: A15_100 Runoff Area=0.027 ac 100.00% Impervious Runoff Depth=2.64"
Tc=12.0 min CN=98 Runoff=0.09 cfs 0.006 af

SubcatchmentA8: A8 Runoff Area=0.095 ac 10.53% Impervious Runoff Depth=1.02"
Tc=12.0 min CN=WQ Runoff=0.13 cfs 0.008 af

SubcatchmentA9: A9 Runoff Area=0.671 ac 21.61% Impervious Runoff Depth=1.22"
Tc=12.0 min CN=WQ Runoff=1.08 cfs 0.068 af

SubcatchmentB5: B5 Runoff Area=0.552 ac 7.25% Impervious Runoff Depth=0.94"
Tc=12.0 min CN=WQ Runoff=0.70 cfs 0.043 af

SubcatchmentB6: B6 Runoff Area=1.508 ac 9.28% Impervious Runoff Depth=1.00"
Tc=12.0 min CN=WQ Runoff=2.01 cfs 0.125 af

SubcatchmentB7: B7 Runoff Area=0.782 ac 10.23% Impervious Runoff Depth=1.01"
Tc=12.0 min CN=WQ Runoff=1.06 cfs 0.066 af

SubcatchmentB7_100: B7_100 Runoff Area=0.211 ac 29.86% Impervious Runoff Depth=1.37"
Tc=12.0 min CN=WQ Runoff=0.38 cfs 0.024 af

SubcatchmentB8: B8 Runoff Area=1.110 ac 17.84% Impervious Runoff Depth=1.14"
Tc=12.0 min CN=WQ Runoff=1.68 cfs 0.106 af

SubcatchmentB8_100: B8_100 Runoff Area=0.030 ac 90.00% Impervious Runoff Depth=2.46"
Tc=12.0 min CN=WQ Runoff=0.09 cfs 0.006 af

SubcatchmentC10: C10 Runoff Area=1.314 ac 2.74% Impervious Runoff Depth=0.88"
Tc=12.0 min CN=WQ Runoff=1.56 cfs 0.096 af

SubcatchmentC10_100: C10_100 Runoff Area=0.546 ac 59.71% Impervious Runoff Depth=1.91"
Tc=12.0 min CN=WQ Runoff=1.34 cfs 0.087 af

SubcatchmentC6: C6 Runoff Area=0.839 ac 1.31% Impervious Runoff Depth=0.85"
Tc=12.0 min CN=WQ Runoff=0.97 cfs 0.059 af

SubcatchmentC7: C7 Runoff Area=1.079 ac 1.67% Impervious Runoff Depth=0.86"
Tc=12.0 min CN=WQ Runoff=1.26 cfs 0.077 af

SubcatchmentC7_100: C7_100 Runoff Area=0.268 ac 62.31% Impervious Runoff Depth=1.96"
Flow Length=300' Slope=0.0870 '/' Tc=13.8 min CN=WQ Runoff=0.63 cfs 0.044 af

SubcatchmentC8: C8 Runoff Area=1.457 ac 9.47% Impervious Runoff Depth=1.00"
Tc=12.0 min CN=WQ Runoff=1.95 cfs 0.121 af

SubcatchmentC8_100: C8_100 Runoff Area=0.470 ac 62.77% Impervious Runoff Depth=1.96"
Flow Length=300' Slope=0.0870 '/' Tc=13.8 min CN=WQ Runoff=1.11 cfs 0.077 af

SubcatchmentC9: C9 Runoff Area=1.762 ac 7.49% Impervious Runoff Depth=0.96"
Tc=12.0 min CN=WQ Runoff=2.28 cfs 0.141 af

SubcatchmentC9_100: C9_100 Runoff Area=0.301 ac 65.12% Impervious Runoff Depth=2.01"
Tc=12.0 min CN=WQ Runoff=0.78 cfs 0.050 af

SubcatchmentD6: D6 Runoff Area=0.376 ac 3.46% Impervious Runoff Depth=0.89"
Tc=12.0 min CN=WQ Runoff=0.45 cfs 0.028 af

SubcatchmentD7: D7 Runoff Area=0.511 ac 11.94% Impervious Runoff Depth=1.04"
Tc=12.0 min CN=WQ Runoff=0.71 cfs 0.044 af

SubcatchmentD7_100: D7_100 Runoff Area=0.075 ac 56.00% Impervious Runoff Depth=1.84"
Tc=12.0 min CN=WQ Runoff=0.18 cfs 0.012 af

SubcatchmentD8: D8 Runoff Area=1.215 ac 7.98% Impervious Runoff Depth=0.97"
Tc=12.0 min CN=WQ Runoff=1.58 cfs 0.098 af

SubcatchmentD9: D9 Runoff Area=1.254 ac 16.11% Impervious Runoff Depth=1.12"
Tc=12.0 min CN=WQ Runoff=1.86 cfs 0.117 af

SubcatchmentE13: E13 Runoff Area=0.980 ac 25.31% Impervious Runoff Depth=1.29"
Tc=12.0 min CN=WQ Runoff=1.65 cfs 0.105 af

SubcatchmentE15: E15 Runoff Area=1.926 ac 26.90% Impervious Runoff Depth=1.31"
Tc=12.0 min CN=WQ Runoff=3.32 cfs 0.211 af

SubcatchmentE16: E16 Runoff Area=1.374 ac 25.84% Impervious Runoff Depth=1.30"
Tc=12.0 min CN=WQ Runoff=2.33 cfs 0.148 af

SubcatchmentE17: E17 Runoff Area=0.991 ac 20.48% Impervious Runoff Depth=1.20"
Tc=12.0 min CN=WQ Runoff=1.57 cfs 0.099 af

SubcatchmentE18: E18 Runoff Area=1.734 ac 9.86% Impervious Runoff Depth=1.01"
Tc=12.0 min CN=WQ Runoff=2.33 cfs 0.145 af

SubcatchmentF5: F5 Runoff Area=1.224 ac 21.24% Impervious Runoff Depth=1.21"
Tc=12.0 min CN=WQ Runoff=1.95 cfs 0.124 af

SubcatchmentF6: F6 Runoff Area=0.921 ac 21.06% Impervious Runoff Depth=1.21"
Tc=12.0 min CN=WQ Runoff=1.47 cfs 0.093 af

SubcatchmentF7: F7 Runoff Area=0.667 ac 11.69% Impervious Runoff Depth=1.04"
Tc=12.0 min CN=WQ Runoff=0.92 cfs 0.058 af

SubcatchmentF8: F8 Runoff Area=1.906 ac 16.00% Impervious Runoff Depth=1.12"
Tc=12.0 min CN=WQ Runoff=2.82 cfs 0.177 af

SubcatchmentH5: H5 Runoff Area=2.168 ac 27.21% Impervious Runoff Depth=1.20"
Tc=12.0 min CN=WQ Runoff=3.28 cfs 0.216 af

SubcatchmentH6: H6 Runoff Area=1.008 ac 19.54% Impervious Runoff Depth=0.86"
Tc=12.0 min CN=WQ Runoff=1.00 cfs 0.072 af

SubcatchmentH7: H7 Runoff Area=1.176 ac 19.64% Impervious Runoff Depth=0.93"
Tc=12.0 min CN=WQ Runoff=1.31 cfs 0.091 af

SubcatchmentI7: I7 Runoff Area=0.783 ac 24.01% Impervious Runoff Depth=1.26"
Tc=12.0 min CN=WQ Runoff=1.30 cfs 0.082 af

SubcatchmentI7_100: I7_100 Runoff Area=0.485 ac 7.01% Impervious Runoff Depth=0.95"
Tc=12.0 min CN=WQ Runoff=0.62 cfs 0.039 af

SubcatchmentI8: I8 Runoff Area=1.003 ac 25.12% Impervious Runoff Depth=1.28"
Tc=12.0 min CN=WQ Runoff=1.69 cfs 0.107 af

SubcatchmentI8_100: I8_100 Runoff Area=0.170 ac 25.88% Impervious Runoff Depth=1.30"
Tc=12.0 min CN=WQ Runoff=0.29 cfs 0.018 af

SubcatchmentI9: I9 Runoff Area=0.256 ac 27.73% Impervious Runoff Depth=1.33"
Tc=12.0 min CN=WQ Runoff=0.45 cfs 0.028 af

SubcatchmentJ3: J3 Runoff Area=1.496 ac 20.32% Impervious Runoff Depth=1.20"
Tc=12.0 min CN=WQ Runoff=2.36 cfs 0.149 af

SubcatchmentJ4: J4 Runoff Area=0.310 ac 0.00% Impervious Runoff Depth=0.83"
Tc=12.0 min CN=74 Runoff=0.35 cfs 0.021 af

SubcatchmentJ5: J5 Runoff Area=0.683 ac 17.72% Impervious Runoff Depth=1.15"
Tc=12.0 min CN=WQ Runoff=1.04 cfs 0.065 af

SubcatchmentL10: L10 Runoff Area=1.158 ac 17.53% Impervious Runoff Depth=1.14"
Tc=12.0 min CN=WQ Runoff=1.75 cfs 0.110 af

SubcatchmentL4: L4 Runoff Area=0.167 ac 20.96% Impervious Runoff Depth=1.19"
Tc=12.0 min CN=WQ Runoff=0.26 cfs 0.017 af

SubcatchmentL5: L5 Runoff Area=0.763 ac 22.02% Impervious Runoff Depth=1.23"
Tc=12.0 min CN=WQ Runoff=1.23 cfs 0.078 af

SubcatchmentL6: L6 Runoff Area=1.091 ac 19.98% Impervious Runoff Depth=1.19"
Tc=12.0 min CN=WQ Runoff=1.71 cfs 0.108 af

SubcatchmentL7: L7 Runoff Area=0.759 ac 21.21% Impervious Runoff Depth=1.21"
Tc=12.0 min CN=WQ Runoff=1.21 cfs 0.077 af

SubcatchmentL8: L8 Runoff Area=1.441 ac 22.07% Impervious Runoff Depth=1.18"
Tc=12.0 min CN=WQ Runoff=2.23 cfs 0.141 af

SubcatchmentL9: L9 Runoff Area=0.971 ac 21.11% Impervious Runoff Depth=1.21"
Tc=12.0 min CN=WQ Runoff=1.54 cfs 0.098 af

SubcatchmentO10: O10 Runoff Area=0.609 ac 15.44% Impervious Runoff Depth=1.11"
Tc=12.0 min CN=WQ Runoff=0.89 cfs 0.056 af

SubcatchmentO8: O8 Runoff Area=0.490 ac 12.24% Impervious Runoff Depth=1.05"
Tc=12.0 min CN=WQ Runoff=0.68 cfs 0.043 af

SubcatchmentO9: O9 Runoff Area=1.143 ac 19.86% Impervious Runoff Depth=1.19"
Tc=12.0 min CN=WQ Runoff=1.79 cfs 0.113 af

SubcatchmentW6: W6 Runoff Area=10.080 ac 10.00% Impervious Runoff Depth=1.00"
Flow Length=780' Tc=27.0 min CN=WQ Runoff=8.76 cfs 0.838 af

SubcatchmentW6_100: W6_100 Runoff Area=0.217 ac 0.00% Impervious Runoff Depth=0.80"
Flow Length=550' Tc=42.4 min CN=WQ Runoff=0.11 cfs 0.014 af

SubcatchmentW6_101: W6_101 Runoff Area=2.257 ac 13.16% Impervious Runoff Depth=1.06"
Flow Length=605' Tc=19.1 min CN=WQ Runoff=2.50 cfs 0.198 af

SubcatchmentW6_102: W6_102 Runoff Area=0.261 ac 0.00% Impervious Runoff Depth=0.83"
Tc=15.5 min CN=74 Runoff=0.26 cfs 0.018 af

SubcatchmentW9: W9 Runoff Area=1.787 ac 12.14% Impervious Runoff Depth=1.04"
Tc=12.0 min CN=WQ Runoff=2.48 cfs 0.155 af

SubcatchmentW9_100: W9_100 Runoff Area=2.497 ac 22.31% Impervious Runoff Depth=1.23"
Flow Length=1,013' Tc=34.0 min CN=WQ Runoff=2.33 cfs 0.256 af

SubcatchmentW9_101: W9_101 Runoff Area=0.539 ac 49.17% Impervious Runoff Depth=1.72"
Flow Length=300' Slope=0.0570 '/' Tc=16.4 min CN=WQ Runoff=1.04 cfs 0.077 af

Reach 1R: Bassett Creek Watershed Inflow=22.63 cfs 13.568 af
Outflow=22.63 cfs 13.568 af

Reach 5R: Elm Creek Watershed Inflow=0.86 cfs 0.297 af
Outflow=0.86 cfs 0.297 af

Reach 8R: Offsite Inflow=0.07 cfs 0.005 af
Outflow=0.07 cfs 0.005 af

Reach Wetland: Wetland 6 Inflow=22.60 cfs 13.563 af
Outflow=22.60 cfs 13.563 af

Pond 4P: CB_22 pipe Peak Elev=970.71' Inflow=4.99 cfs 1.634 af
Outflow=4.99 cfs 1.634 af

Pond CB_A10: CB_A10 Peak Elev=996.19' Storage=36 cf Inflow=1.90 cfs 0.121 af
Outflow=1.89 cfs 0.121 af

Pond CB_A15: CB_A15 Peak Elev=998.10' Storage=20 cf Inflow=1.22 cfs 0.077 af
Primary=0.78 cfs 0.050 af Secondary=0.43 cfs 0.027 af Outflow=1.21 cfs 0.077 af

Pond CB_A8: CB_A8 Peak Elev=1,002.03' Storage=2 cf Inflow=0.13 cfs 0.008 af
Primary=0.13 cfs 0.008 af Secondary=0.00 cfs 0.000 af Outflow=0.13 cfs 0.008 af

Pond CB_A9: CB_A9 Peak Elev=1,002.11' Storage=451 cf Inflow=1.08 cfs 0.068 af
Primary=0.83 cfs 0.068 af Secondary=0.00 cfs 0.000 af Outflow=0.83 cfs 0.068 af

Pond CB_B5: CB_B5 Peak Elev=996.10' Storage=14 cf Inflow=0.70 cfs 0.043 af
Primary=0.70 cfs 0.043 af Secondary=0.00 cfs 0.000 af Outflow=0.70 cfs 0.043 af

Pond CB_B6: CB_B6 Peak Elev=994.23' Storage=66 cf Inflow=2.50 cfs 0.157 af
Primary=2.49 cfs 0.157 af Secondary=0.00 cfs 0.000 af Outflow=2.49 cfs 0.157 af

Pond CB_B7: CB_B7 Peak Elev=998.12' Storage=150 cf Inflow=1.43 cfs 0.090 af
Primary=0.91 cfs 0.058 af Secondary=0.50 cfs 0.032 af Outflow=1.41 cfs 0.090 af

Pond CB_B8: CB_B8 Peak Elev=995.68' Storage=16 cf Inflow=1.77 cfs 0.112 af
Primary=1.77 cfs 0.112 af Secondary=0.00 cfs 0.000 af Outflow=1.77 cfs 0.112 af

Pond CB_C10: CB_C10 Peak Elev=994.25' Storage=54 cf Inflow=2.90 cfs 0.183 af
Primary=2.89 cfs 0.183 af Secondary=0.00 cfs 0.000 af Outflow=2.89 cfs 0.183 af

Pond CB_C6: CB_C6 Peak Elev=993.12' Storage=18 cf Inflow=0.97 cfs 0.059 af
Primary=0.97 cfs 0.059 af Secondary=0.00 cfs 0.000 af Outflow=0.97 cfs 0.059 af

Pond CB_C7: CB_C7 Peak Elev=993.19' Storage=51 cf Inflow=1.89 cfs 0.121 af
Primary=1.88 cfs 0.121 af Secondary=0.00 cfs 0.000 af Outflow=1.88 cfs 0.121 af

Pond CB_C8: CB_C8 Peak Elev=991.26' Storage=39 cf Inflow=3.06 cfs 0.198 af
Outflow=3.05 cfs 0.198 af

Pond CB_C9: CB_C9 Peak Elev=992.26' Storage=86 cf Inflow=3.05 cfs 0.192 af
Primary=3.03 cfs 0.192 af Secondary=0.00 cfs 0.000 af Outflow=3.03 cfs 0.192 af

Pond CB_D6: CB_D6 Peak Elev=1,000.07' Storage=13 cf Inflow=0.45 cfs 0.028 af
Primary=0.45 cfs 0.028 af Secondary=0.00 cfs 0.000 af Outflow=0.45 cfs 0.028 af

Pond CB_D7: CB_D7 Peak Elev=1,002.11' Storage=26 cf Inflow=0.89 cfs 0.056 af
Primary=0.88 cfs 0.056 af Secondary=0.00 cfs 0.000 af Outflow=0.88 cfs 0.056 af

Pond CB_D8: CB_D8 Peak Elev=1,002.17' Storage=62 cf Inflow=1.58 cfs 0.098 af
Primary=1.57 cfs 0.098 af Secondary=0.00 cfs 0.000 af Outflow=1.57 cfs 0.098 af

Pond CB_D9: CB_D9 Peak Elev=997.19' Storage=70 cf Inflow=1.86 cfs 0.117 af
Outflow=1.84 cfs 0.117 af

Pond CB_E13: CB_E13 Peak Elev=1,004.17' Storage=16 cf Inflow=1.65 cfs 0.105 af
Outflow=1.65 cfs 0.105 af

Pond CB_E15: CB_E15 Peak Elev=992.27' Storage=44 cf Inflow=3.32 cfs 0.211 af
Outflow=3.32 cfs 0.211 af

Pond CB_E16: CB_E16 Peak Elev=996.22' Storage=62 cf Inflow=2.33 cfs 0.148 af
Primary=2.32 cfs 0.148 af Secondary=0.00 cfs 0.000 af Outflow=2.32 cfs 0.148 af

Pond CB_E17: CB_E17 Peak Elev=1,002.17' Storage=104 cf Inflow=1.57 cfs 0.099 af
Primary=1.55 cfs 0.099 af Secondary=0.00 cfs 0.000 af Outflow=1.55 cfs 0.099 af

Pond CB_E18: CB_E18 Peak Elev=1,008.22' Storage=226 cf Inflow=2.33 cfs 0.145 af
Primary=2.30 cfs 0.144 af Secondary=0.00 cfs 0.000 af Outflow=2.30 cfs 0.144 af

Pond CB_F5: CB_F5 Peak Elev=983.24' Storage=78 cf Inflow=2.69 cfs 0.197 af
Outflow=2.68 cfs 0.197 af

Pond CB_F6: CB_F6 Peak Elev=986.10' Storage=6 cf Inflow=1.47 cfs 0.093 af
Primary=0.73 cfs 0.019 af Secondary=0.74 cfs 0.073 af Outflow=1.47 cfs 0.093 af

Pond CB_F7: CB_F7 Peak Elev=986.62' Storage=14 cf Inflow=0.92 cfs 0.058 af
Primary=0.92 cfs 0.058 af Secondary=0.00 cfs 0.000 af Outflow=0.92 cfs 0.058 af

Pond CB_F8: CB_F8 Peak Elev=989.25' Storage=59 cf Inflow=2.82 cfs 0.177 af
Primary=2.81 cfs 0.177 af Secondary=0.00 cfs 0.000 af Outflow=2.81 cfs 0.177 af

Pond CB_H5: CB_H5 Peak Elev=972.27' Storage=99 cf Inflow=3.28 cfs 0.216 af
Outflow=3.26 cfs 0.216 af

Pond CB_H6: CB_H6 Peak Elev=973.12' Storage=44 cf Inflow=1.00 cfs 0.072 af
Primary=0.99 cfs 0.072 af Secondary=0.00 cfs 0.000 af Outflow=0.99 cfs 0.072 af

Pond CB_H7: CB_H7 Peak Elev=974.14' Storage=347 cf Inflow=1.31 cfs 0.091 af
Primary=1.18 cfs 0.091 af Secondary=0.00 cfs 0.000 af Outflow=1.18 cfs 0.091 af

Pond CB_I7: CB_I7 Peak Elev=985.19' Storage=43 cf Inflow=1.92 cfs 0.121 af
Primary=1.91 cfs 0.121 af Secondary=0.00 cfs 0.000 af Outflow=1.91 cfs 0.121 af

Pond CB_I8: CB_I8 Peak Elev=987.19' Storage=24 cf Inflow=1.98 cfs 0.126 af
Primary=1.98 cfs 0.126 af Secondary=0.00 cfs 0.000 af Outflow=1.98 cfs 0.126 af

Pond CB_I9: CB_I9 Peak Elev=978.07' Storage=5 cf Inflow=0.45 cfs 0.028 af
Primary=0.45 cfs 0.028 af Secondary=0.00 cfs 0.000 af Outflow=0.45 cfs 0.028 af

Pond CB_J3: CB_J3 Peak Elev=991.22' Storage=41 cf Inflow=2.36 cfs 0.149 af
Primary=2.35 cfs 0.149 af Secondary=0.00 cfs 0.000 af Outflow=2.35 cfs 0.149 af

Pond CB_J4: CB_J4 Peak Elev=994.06' Storage=5 cf Inflow=0.35 cfs 0.021 af
Primary=0.35 cfs 0.021 af Secondary=0.00 cfs 0.000 af Outflow=0.35 cfs 0.021 af

Pond CB_J5: CB_J5 Peak Elev=997.13' Storage=15 cf Inflow=1.04 cfs 0.065 af
Primary=1.04 cfs 0.065 af Secondary=0.00 cfs 0.000 af Outflow=1.04 cfs 0.065 af

Pond CB_L10: CB_L10 Peak Elev=988.18' Storage=123 cf Inflow=1.75 cfs 0.110 af
Primary=1.74 cfs 0.110 af Secondary=0.00 cfs 0.000 af Outflow=1.74 cfs 0.110 af

Pond CB_L4: CB_L4 Peak Elev=978.05' Storage=4 cf Inflow=0.26 cfs 0.017 af
Primary=0.26 cfs 0.017 af Secondary=0.00 cfs 0.000 af Outflow=0.26 cfs 0.017 af

Pond CB_L5: CB_L5 Peak Elev=977.67' Storage=28 cf Inflow=1.61 cfs 0.116 af
Primary=1.61 cfs 0.116 af Secondary=0.00 cfs 0.000 af Outflow=1.61 cfs 0.116 af

Pond CB_L6: CB_L6 Peak Elev=978.11' Storage=740 cf Inflow=1.71 cfs 0.108 af
Primary=0.84 cfs 0.070 af Secondary=0.46 cfs 0.038 af Outflow=1.30 cfs 0.108 af

Pond CB_L7: CB_L7 Peak Elev=979.14' Storage=20 cf Inflow=1.21 cfs 0.077 af
Primary=1.21 cfs 0.077 af Secondary=0.00 cfs 0.000 af Outflow=1.21 cfs 0.077 af

Pond CB_L8: CB_L8 Peak Elev=980.21' Storage=132 cf Inflow=2.23 cfs 0.141 af
Primary=2.18 cfs 0.141 af Secondary=0.00 cfs 0.000 af Outflow=2.18 cfs 0.141 af

Pond CB_L9: CB_L9 Peak Elev=982.16' Storage=46 cf Inflow=1.54 cfs 0.098 af
Primary=1.54 cfs 0.098 af Secondary=0.00 cfs 0.000 af Outflow=1.54 cfs 0.098 af

Pond CB_O10: CB_O10 Peak Elev=978.11' Storage=23 cf Inflow=0.89 cfs 0.056 af
Primary=0.89 cfs 0.056 af Secondary=0.00 cfs 0.000 af Outflow=0.89 cfs 0.056 af

Pond CB_O8: CB_O8 Peak Elev=975.60' Storage=8 cf Inflow=0.68 cfs 0.043 af
Primary=0.68 cfs 0.043 af Secondary=0.00 cfs 0.000 af Outflow=0.68 cfs 0.043 af

Pond CB_O9: CB_O9 Peak Elev=978.18' Storage=33 cf Inflow=1.79 cfs 0.113 af
Primary=1.79 cfs 0.113 af Secondary=0.00 cfs 0.000 af Outflow=1.79 cfs 0.113 af

Pond P1N: Pond 1N Peak Elev=1,010.04' Storage=193,106 cf Inflow=9.50 cfs 0.613 af
Primary=0.28 cfs 0.110 af Secondary=0.00 cfs 0.000 af Outflow=0.28 cfs 0.110 af

Pond P1S: Pond 1S Peak Elev=968.30' Storage=354,112 cf Inflow=44.79 cfs 10.284 af
Primary=9.96 cfs 10.028 af Secondary=0.00 cfs 0.000 af Outflow=9.96 cfs 10.028 af

Pond P2S: Pond 2S Peak Elev=970.03' Storage=98,374 cf Inflow=16.07 cfs 2.479 af
Primary=6.99 cfs 2.465 af Secondary=0.00 cfs 0.000 af Outflow=6.99 cfs 2.465 af

Pond P3S: Pond 3S Peak Elev=974.05' Storage=174,034 cf Inflow=25.45 cfs 1.634 af
Primary=4.90 cfs 1.606 af Secondary=0.00 cfs 0.000 af Outflow=4.90 cfs 1.606 af

Pond P4S: Pond 4S Peak Elev=968.87' Storage=110,417 cf Inflow=36.48 cfs 8.055 af
Primary=17.28 cfs 7.990 af Secondary=0.00 cfs 0.000 af Outflow=17.28 cfs 7.990 af

Pond P5S: Pond 5S Peak Elev=979.04' Storage=1,069,206 cf Inflow=96.25 cfs 6.219 af
Primary=5.71 cfs 5.778 af Secondary=0.00 cfs 0.000 af Outflow=5.71 cfs 5.778 af

Pond Wetland 9: Wetland 9 Peak Elev=1,010.07' Storage=20,773 cf Inflow=4.86 cfs 0.598 af
Outflow=0.86 cfs 0.297 af

Total Runoff Area = 136.736 ac Runoff Volume = 15.475 af Average Runoff Depth = 1.36"
68.45% Pervious = 93.594 ac 31.55% Impervious = 43.142 ac

Summary for Subcatchment 1N: 1N

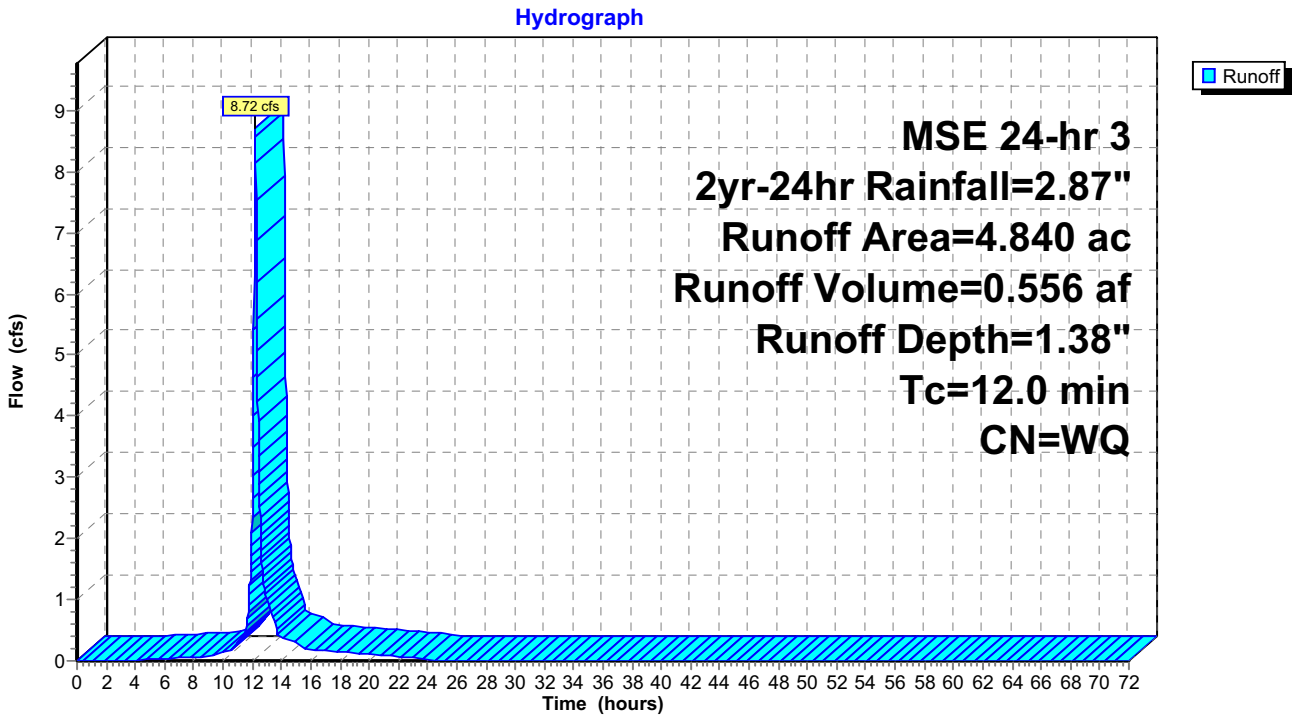
Runoff = 8.72 cfs @ 12.20 hrs, Volume= 0.556 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.646	98	Impervious
	3.366	74	>75% Grass cover, Good, HSG C
*	0.828	98	Pond
	4.840		Weighted Average
	3.366		69.55% Pervious Area
	1.474		30.45% Impervious Area

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

Subcatchment 1N: 1N



Summary for Subcatchment 1N_100: 1N_100

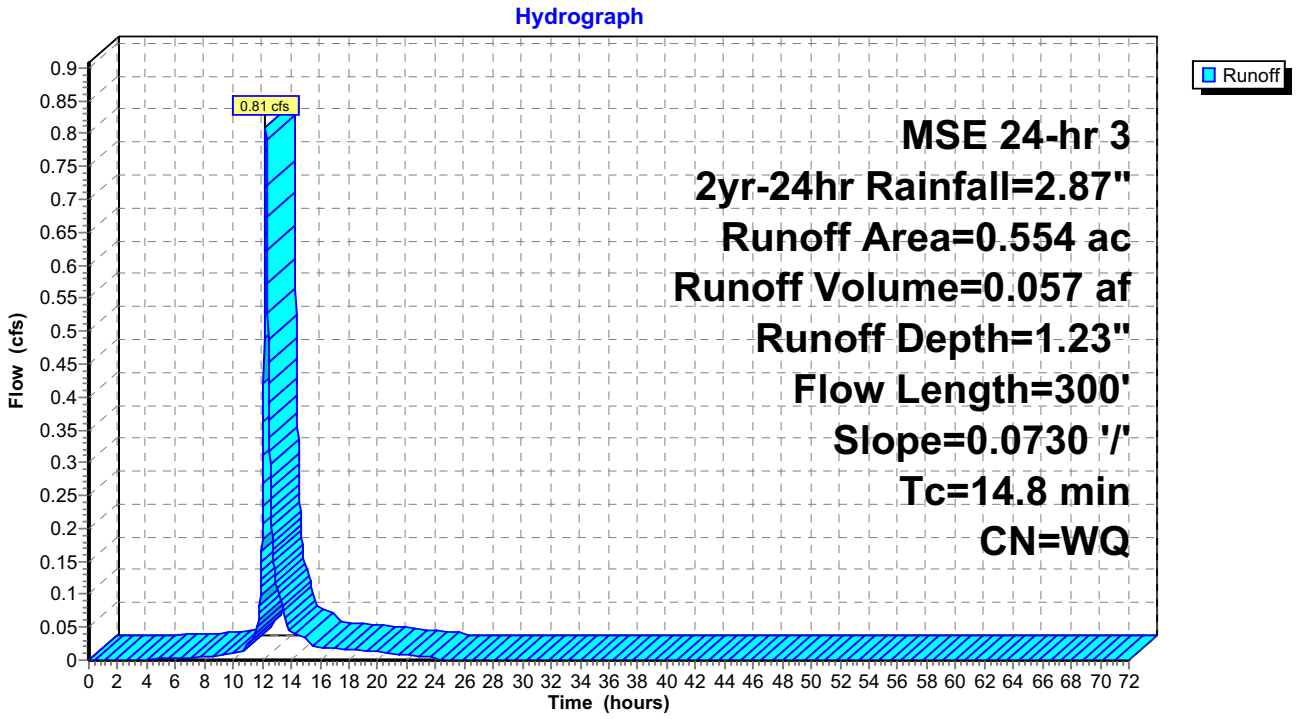
Runoff = 0.81 cfs @ 12.24 hrs, Volume= 0.057 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.318	74	>75% Grass cover, Good, HSG C
*	0.126	98	Impervious
	0.110	73	Woods, Fair, HSG C
	0.554		Weighted Average
	0.428		77.26% Pervious Area
	0.126		22.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.8	300	0.0730	0.34		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment 1N_100: 1N_100



Summary for Subcatchment 1S: 1S

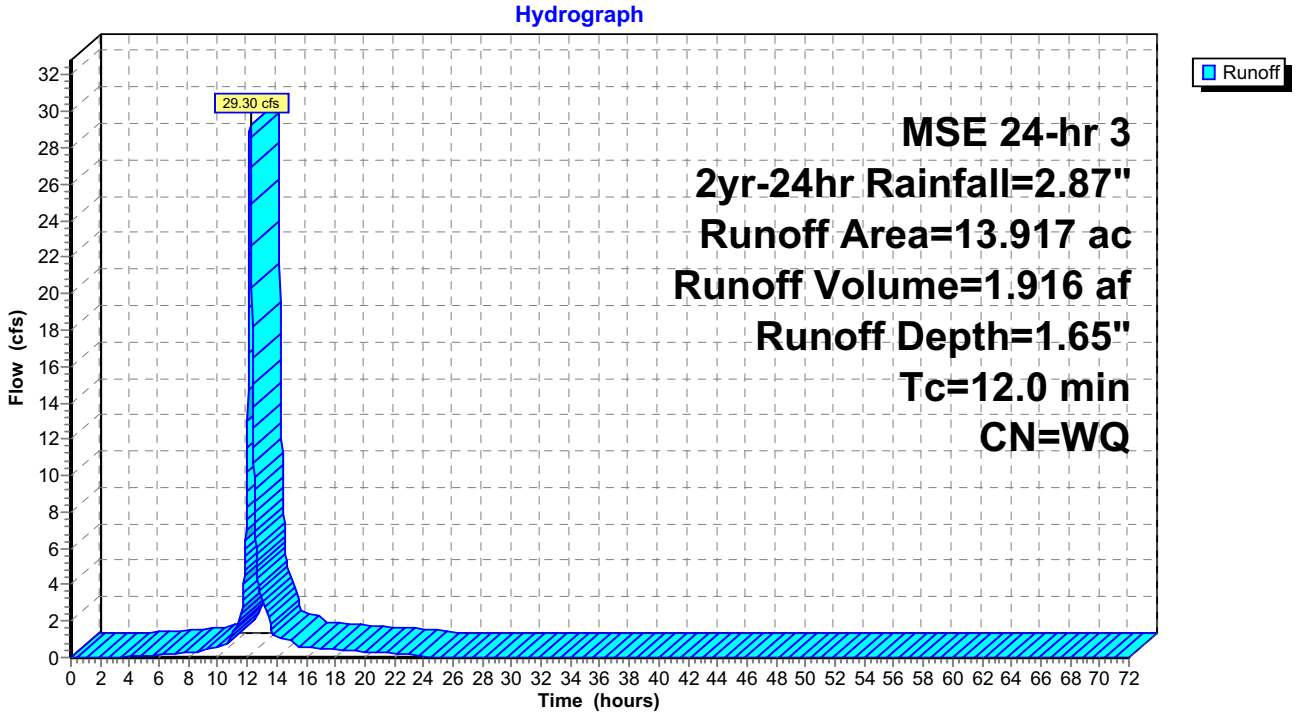
Runoff = 29.30 cfs @ 12.20 hrs, Volume= 1.916 af, Depth= 1.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	5.037	98	Impervious
	1.856	61	>75% Grass cover, Good, HSG B
	3.783	74	>75% Grass cover, Good, HSG C
	1.419	74	>75% Grass cover, Good, HSG C
*	1.822	98	Pond
	13.917		Weighted Average
	7.058		50.71% Pervious Area
	6.859		49.29% Impervious Area

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

Subcatchment 1S: 1S



Summary for Subcatchment 2S: 2S

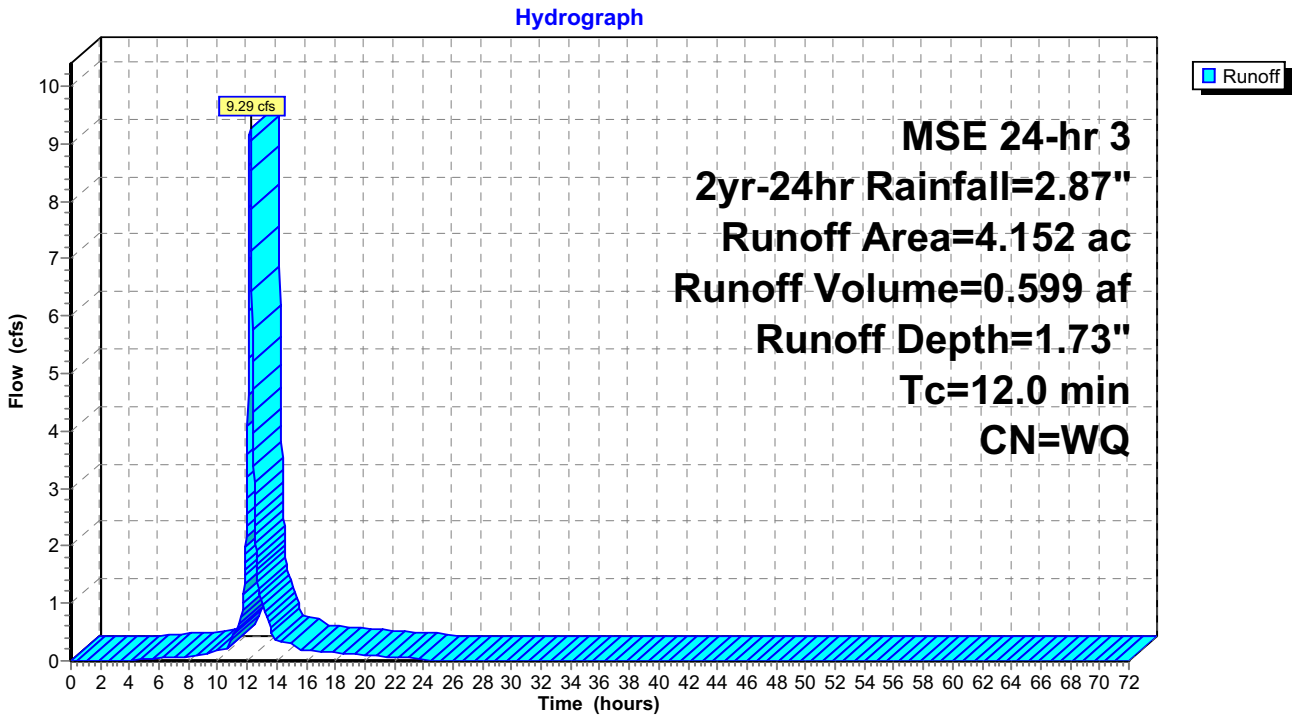
Runoff = 9.29 cfs @ 12.20 hrs, Volume= 0.599 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	1.594	98	Impervious
	2.082	74	>75% Grass cover, Good, HSG C
*	0.476	98	Pond
	4.152		Weighted Average
	2.082		50.14% Pervious Area
	2.070		49.86% Impervious Area

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

Subcatchment 2S: 2S



Summary for Subcatchment 3S: 3S

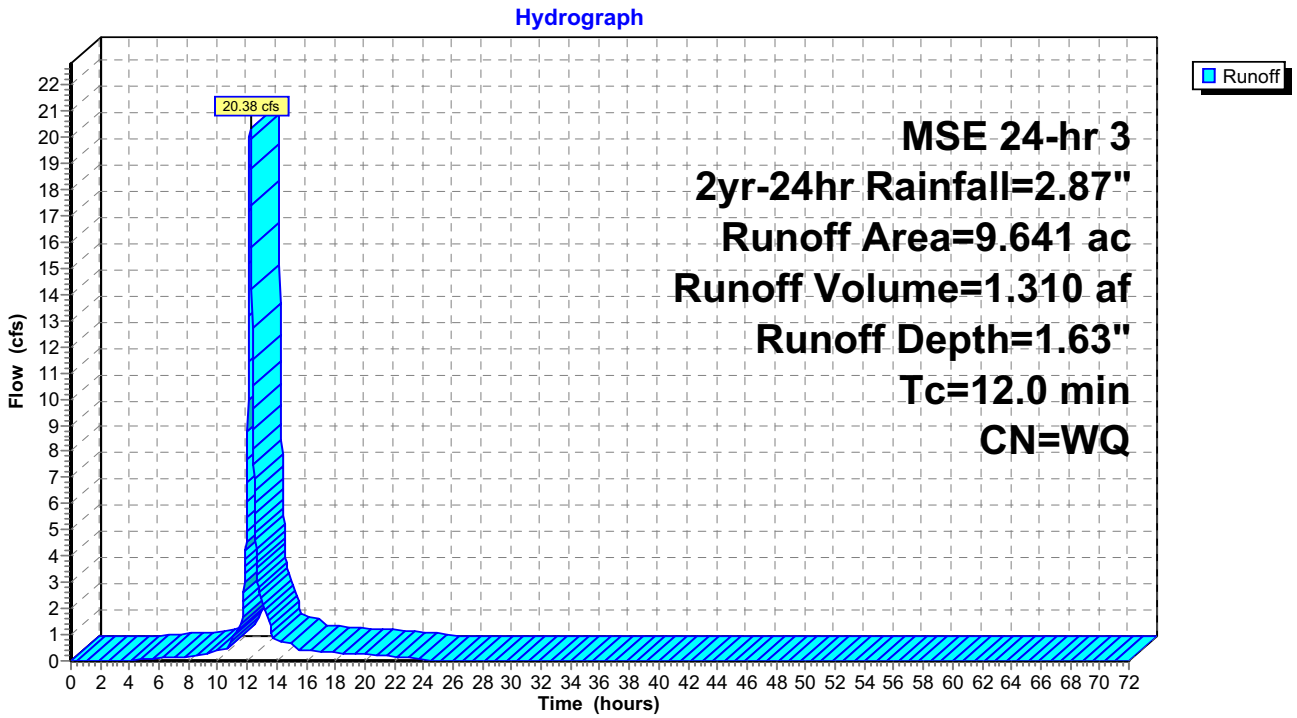
Runoff = 20.38 cfs @ 12.20 hrs, Volume= 1.310 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	3.484	98	Impervious
	5.363	74	>75% Grass cover, Good, HSG C
*	0.794	98	Pond
	9.641		Weighted Average
	5.363		55.63% Pervious Area
	4.278		44.37% Impervious Area

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

Subcatchment 3S: 3S



Summary for Subcatchment 3S_100: 3S_100

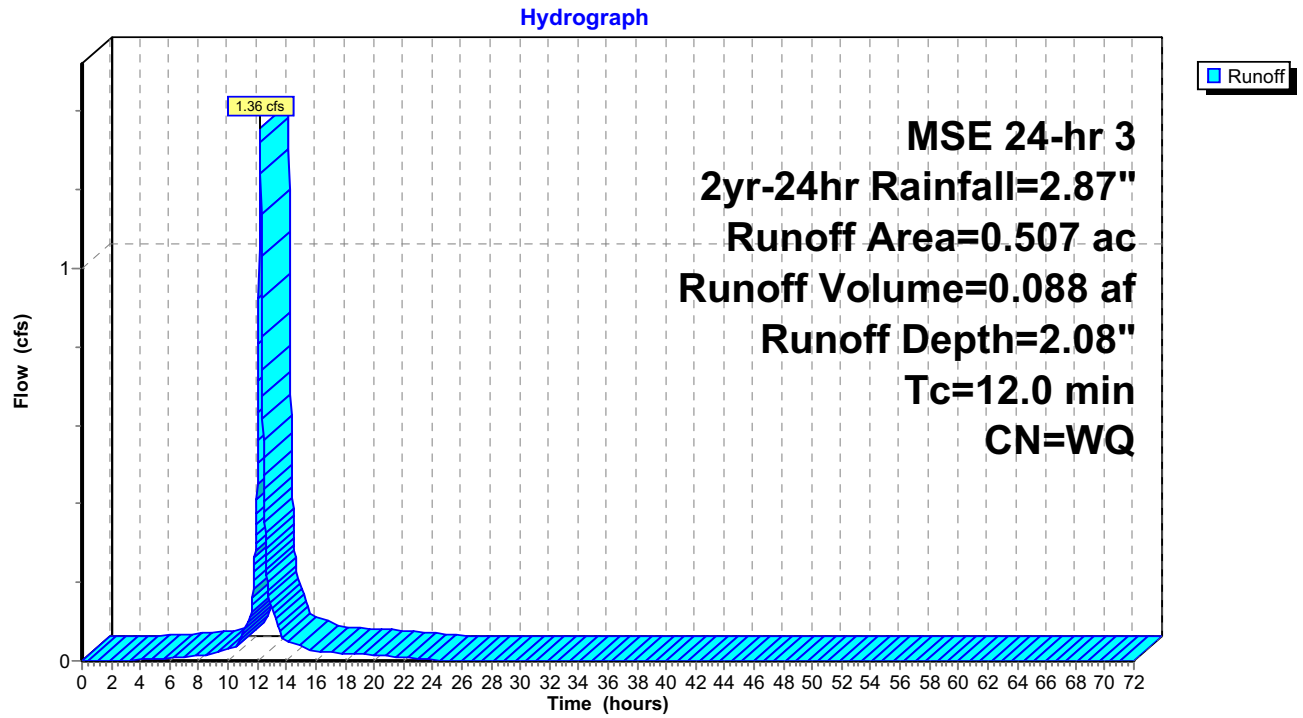
Runoff = 1.36 cfs @ 12.20 hrs, Volume= 0.088 af, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.352	98	Impervious
	0.031	74	>75% Grass cover, Good, HSG C
	0.124	74	>75% Grass cover, Good, HSG C
	0.507		Weighted Average
	0.155		30.57% Pervious Area
	0.352		69.43% Impervious Area

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

Subcatchment 3S_100: 3S_100



Summary for Subcatchment 4S: 4S

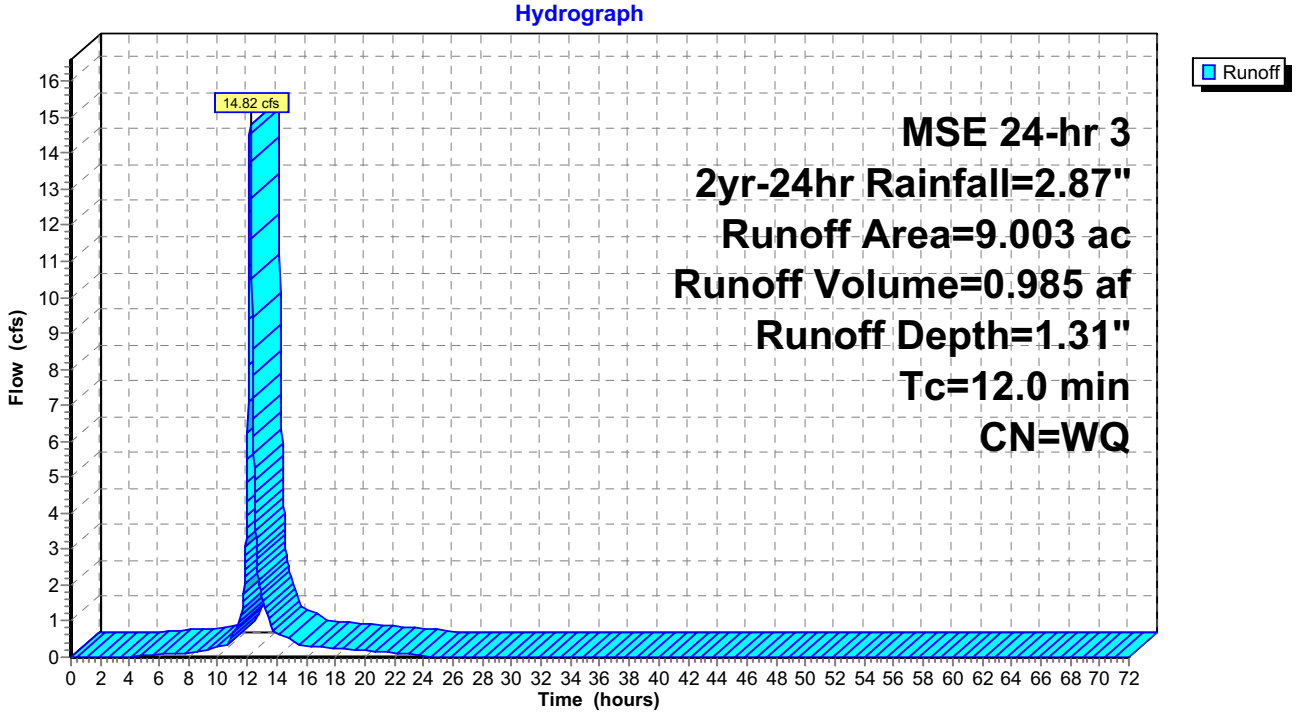
Runoff = 14.82 cfs @ 12.20 hrs, Volume= 0.985 af, Depth= 1.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	2.416	98	Impervious
	2.605	61	>75% Grass cover, Good, HSG B
	2.644	74	>75% Grass cover, Good, HSG C
	0.606	74	>75% Grass cover, Good, HSG C
*	0.680	98	Pond
*	0.052	98	Impervious
	9.003		Weighted Average
	5.855		65.03% Pervious Area
	3.148		34.97% Impervious Area

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

Subcatchment 4S: 4S



Summary for Subcatchment 5S: 5S

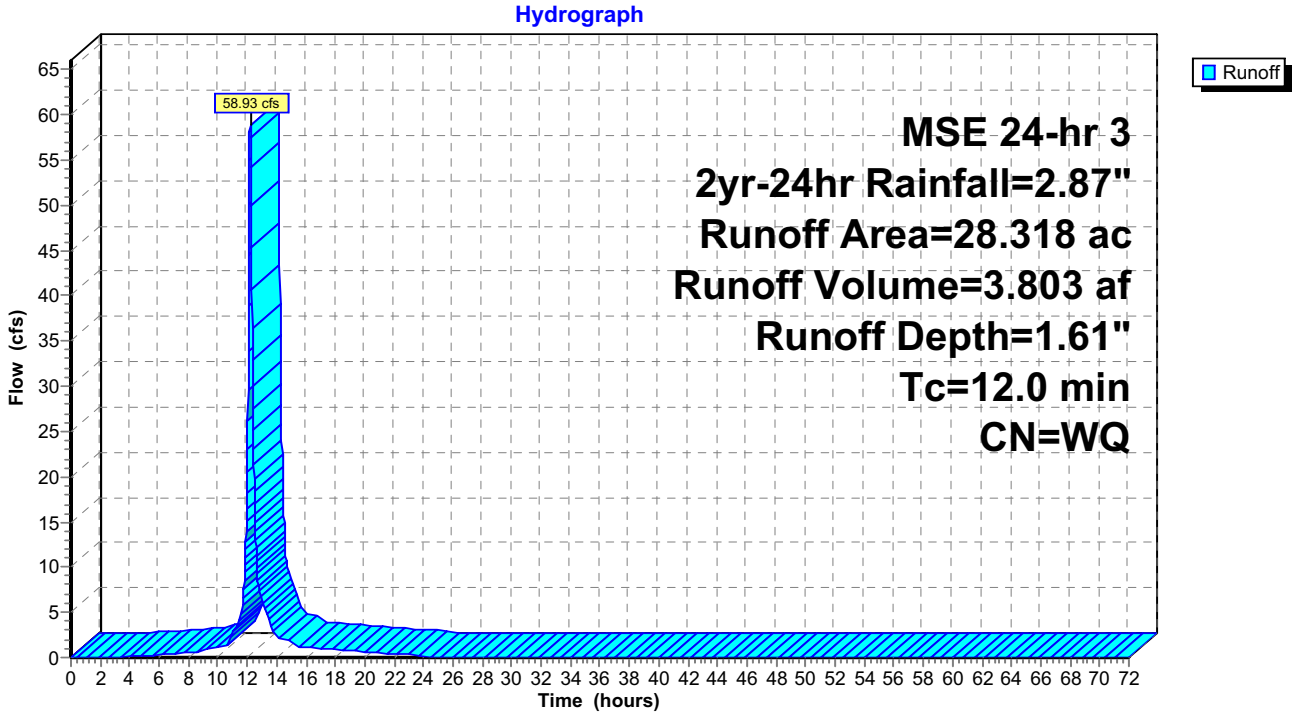
Runoff = 58.93 cfs @ 12.20 hrs, Volume= 3.803 af, Depth= 1.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	9.363	98	Impervious
	2.568	39	>75% Grass cover, Good, HSG A
	7.864	74	>75% Grass cover, Good, HSG C
	4.450	74	>75% Grass cover, Good, HSG C
*	4.073	98	Pond
	28.318		Weighted Average
	14.882		52.55% Pervious Area
	13.436		47.45% Impervious Area

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

Subcatchment 5S: 5S



Summary for Subcatchment 5S_100: 5S_100

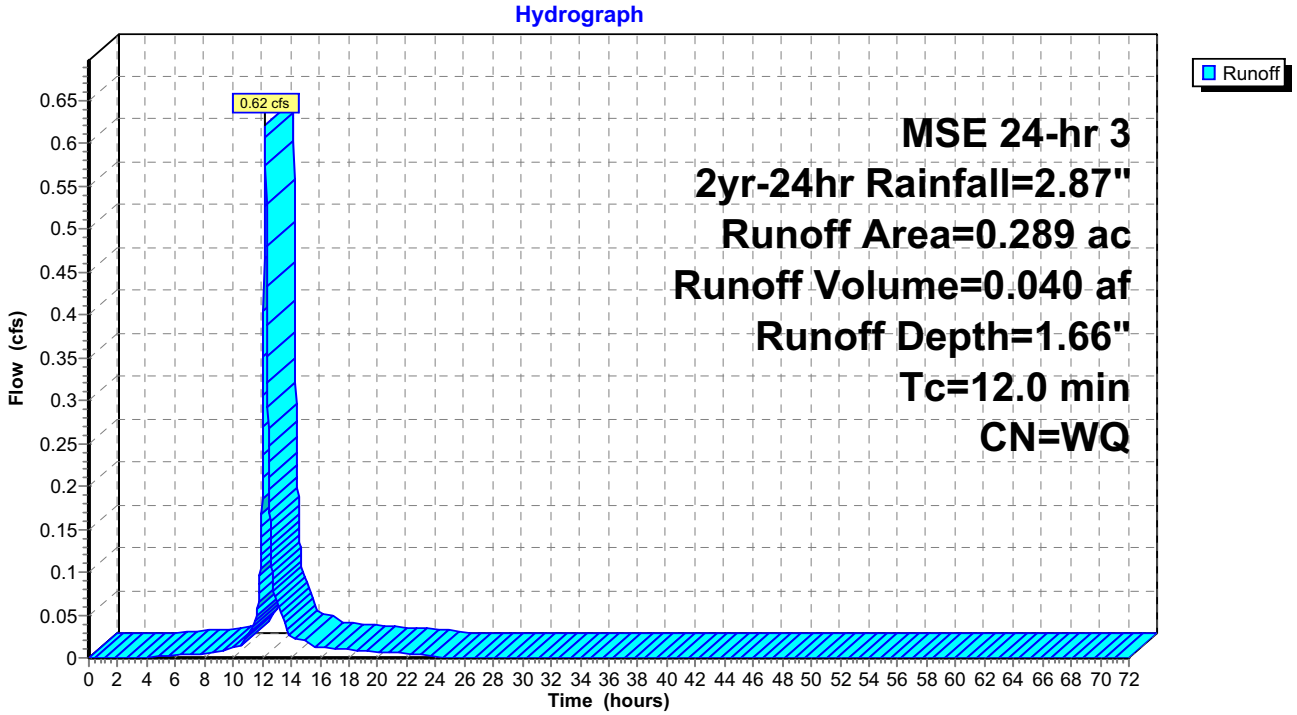
Runoff = 0.62 cfs @ 12.20 hrs, Volume= 0.040 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.078	98	Impervious
	0.156	74	>75% Grass cover, Good, HSG C
*	0.055	98	Impervious
	0.289		Weighted Average
	0.156		53.98% Pervious Area
	0.133		46.02% Impervious Area

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

Subcatchment 5S_100: 5S_100



Summary for Subcatchment 1000: 1000

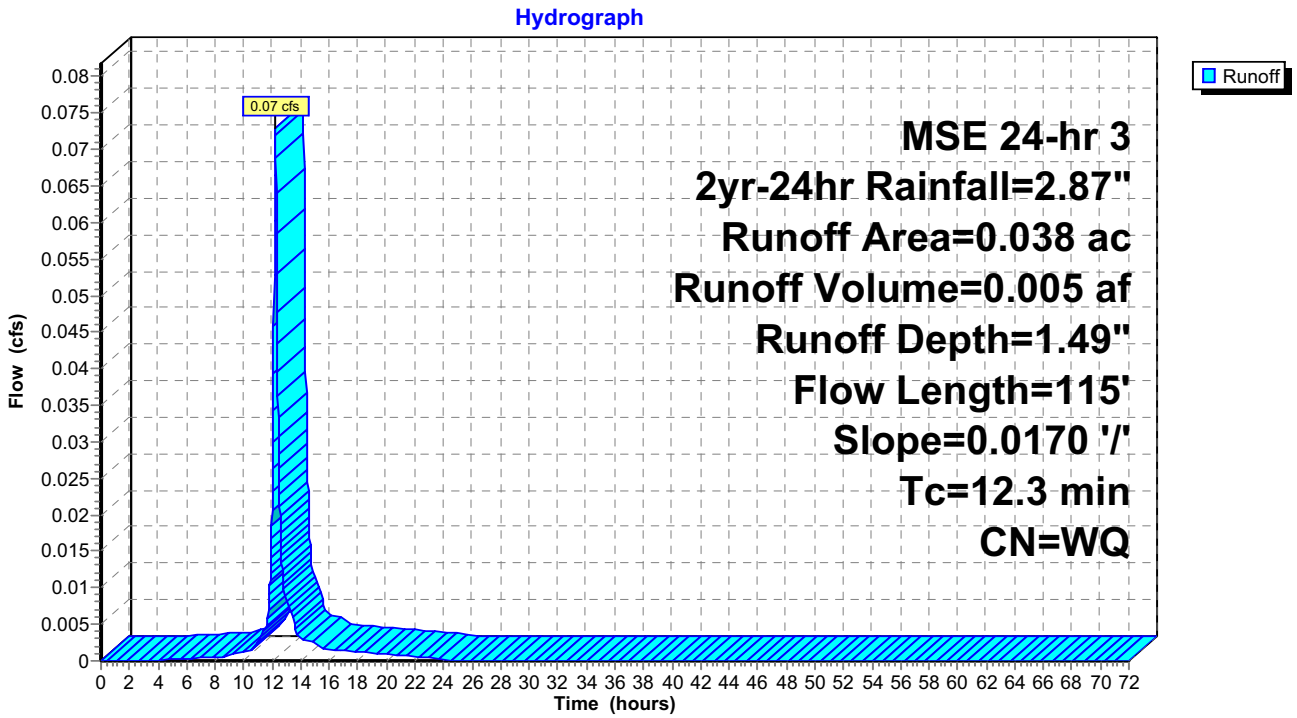
Runoff = 0.07 cfs @ 12.20 hrs, Volume= 0.005 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.014	98	Impervious
	0.024	74	>75% Grass cover, Good, HSG C
	0.038		Weighted Average
	0.024		63.16% Pervious Area
	0.014		36.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	115	0.0170	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment 1000: 1000



Summary for Subcatchment A10: A10

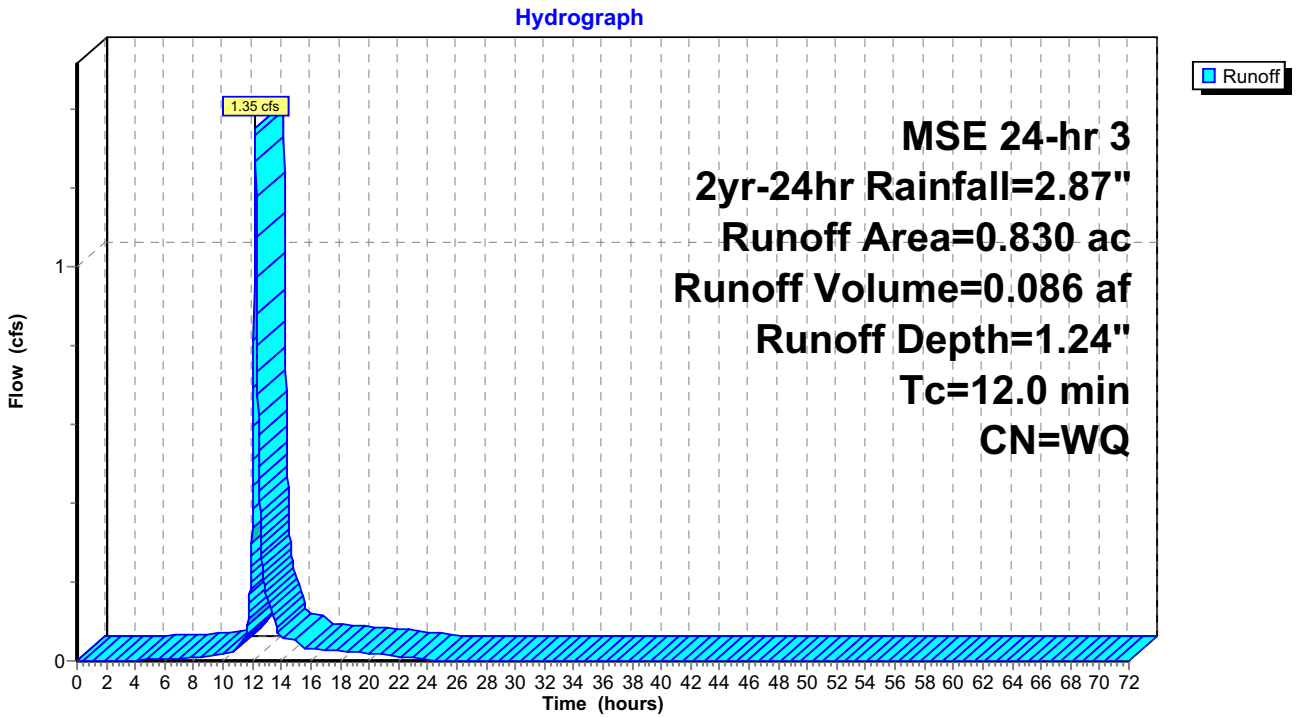
Runoff = 1.35 cfs @ 12.20 hrs, Volume= 0.086 af, Depth= 1.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.132	98	Impervious
	0.641	74	>75% Grass cover, Good, HSG C
*	0.057	98	Impervious
	0.830		Weighted Average
	0.641		77.23% Pervious Area
	0.189		22.77% Impervious Area

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

Subcatchment A10: A10



Summary for Subcatchment A10_100: A10_100

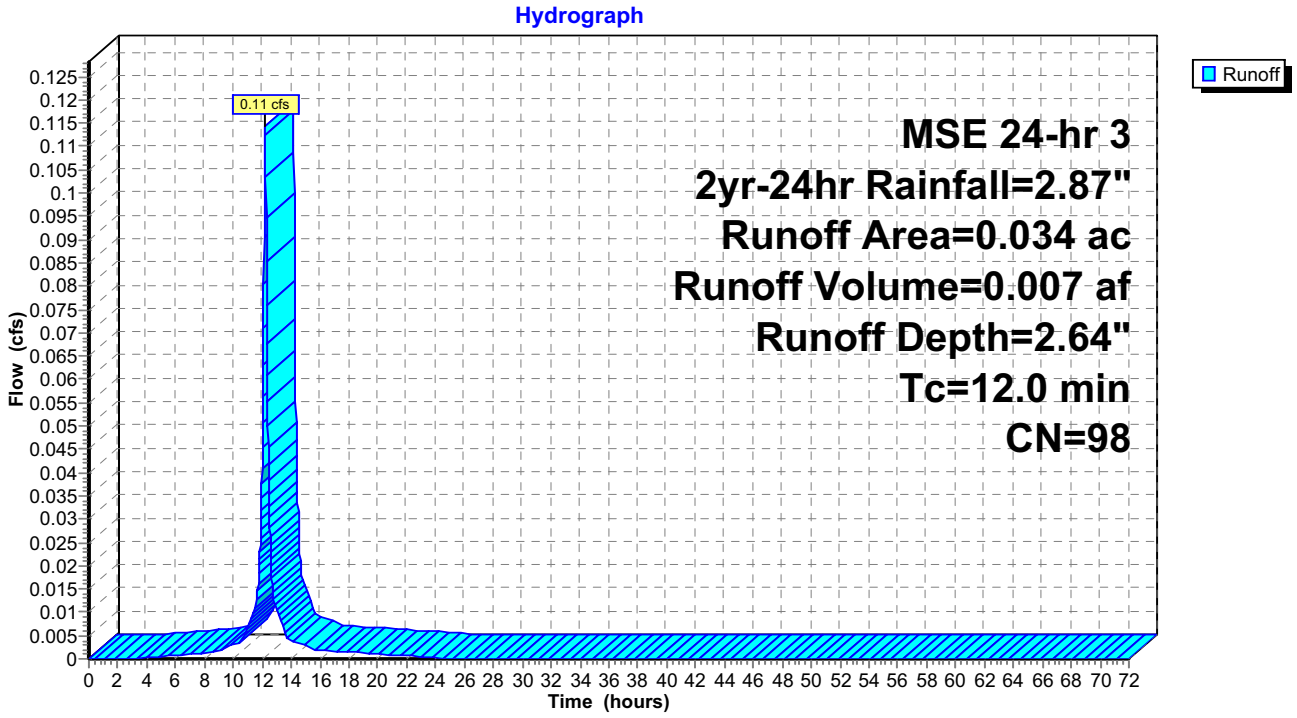
Runoff = 0.11 cfs @ 12.19 hrs, Volume= 0.007 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.034	98	Impervious
	0.034		100.00% Impervious Area

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

Subcatchment A10_100: A10_100



Summary for Subcatchment A15: A15

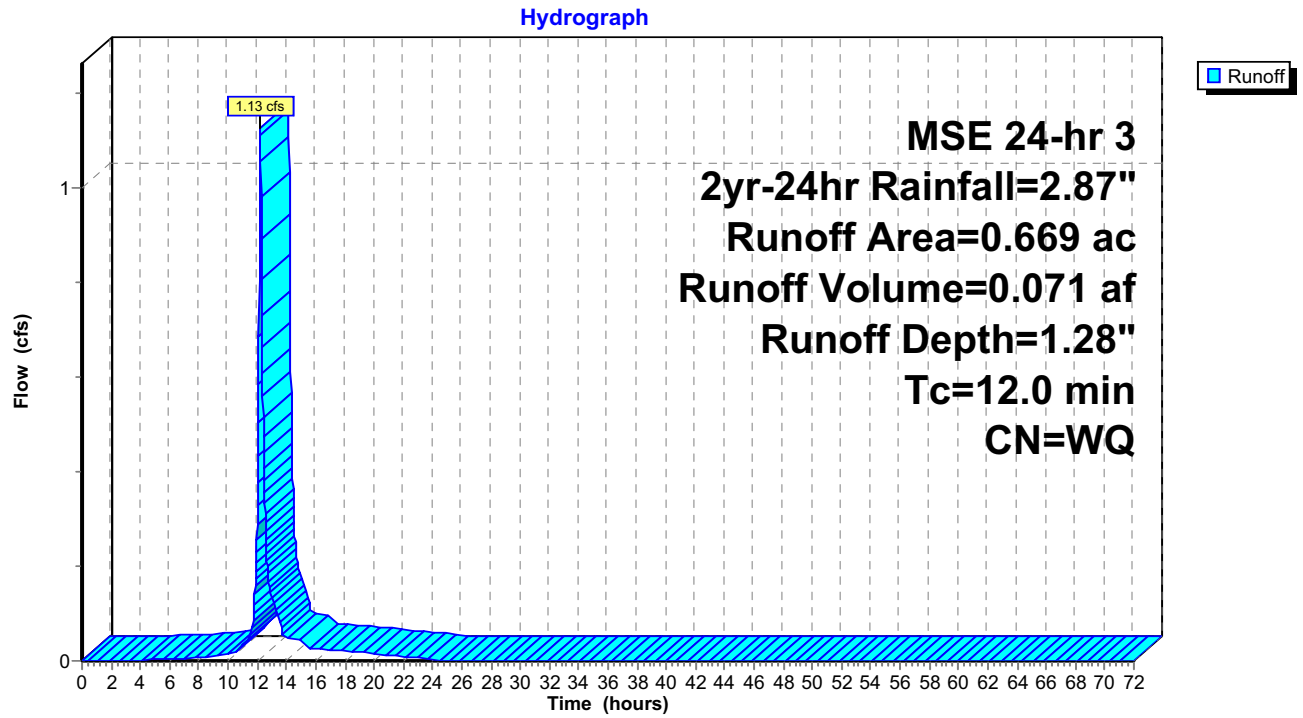
Runoff = 1.13 cfs @ 12.20 hrs, Volume= 0.071 af, Depth= 1.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.119	98	Impervious
	0.501	74	>75% Grass cover, Good, HSG C
*	0.049	98	Impervious
	0.669		Weighted Average
	0.501		74.89% Pervious Area
	0.168		25.11% Impervious Area

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

Subcatchment A15: A15



Summary for Subcatchment A15_100: A15_100

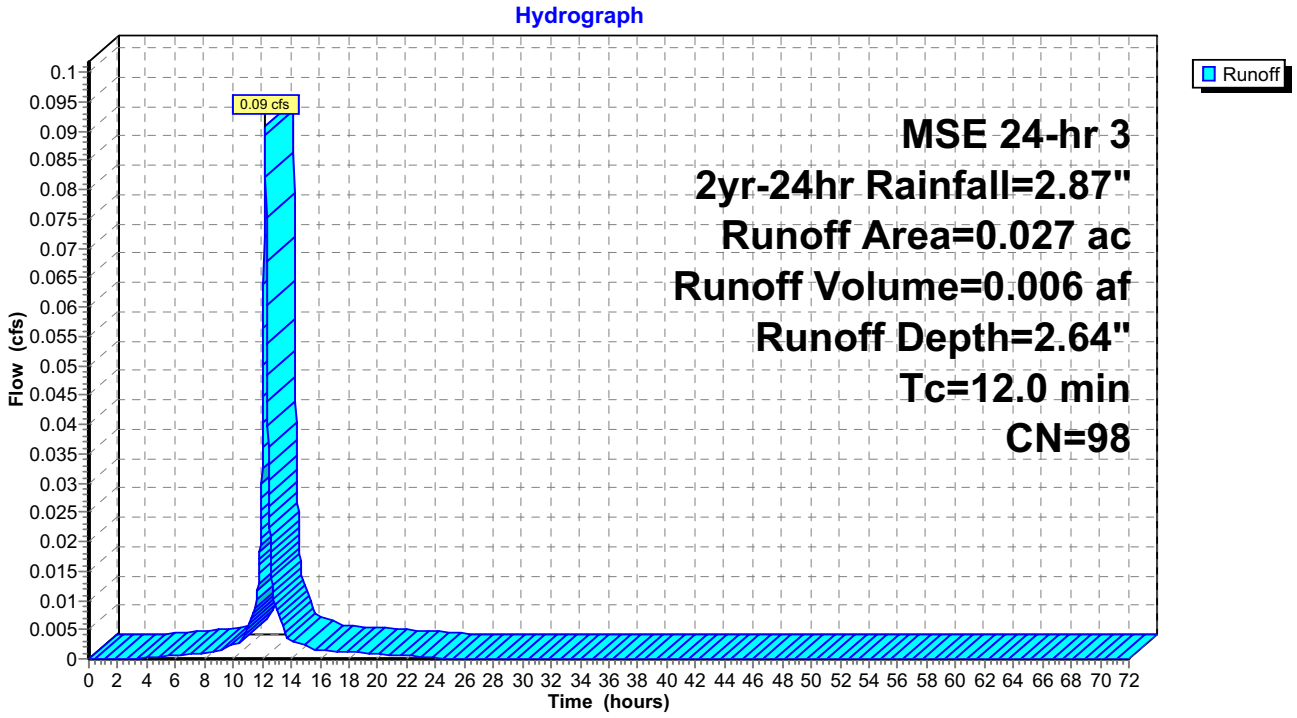
Runoff = 0.09 cfs @ 12.19 hrs, Volume= 0.006 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.027	98	Impervious
	0.027		100.00% Impervious Area

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

Subcatchment A15_100: A15_100



Summary for Subcatchment A8: A8

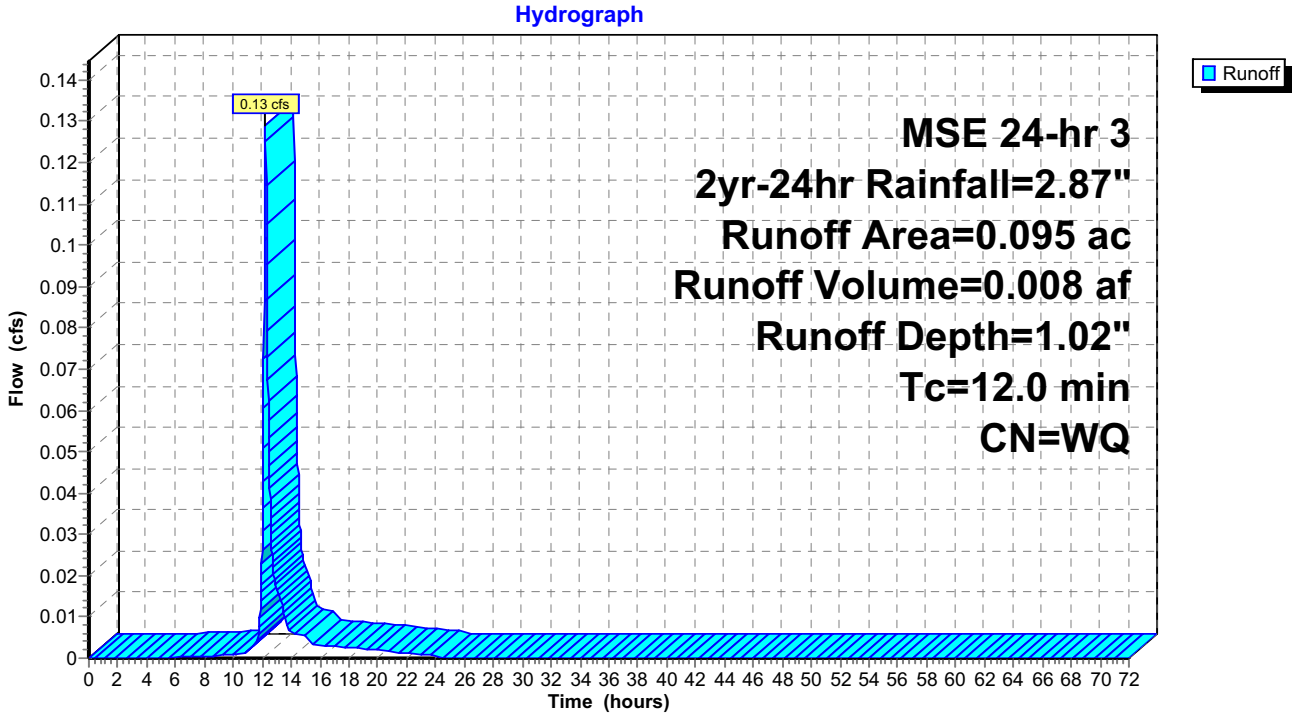
Runoff = 0.13 cfs @ 12.21 hrs, Volume= 0.008 af, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.010	98	Impervious
	0.085	74	>75% Grass cover, Good, HSG C
	0.095		Weighted Average
	0.085		89.47% Pervious Area
	0.010		10.53% Impervious Area

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

Subcatchment A8: A8



Summary for Subcatchment A9: A9

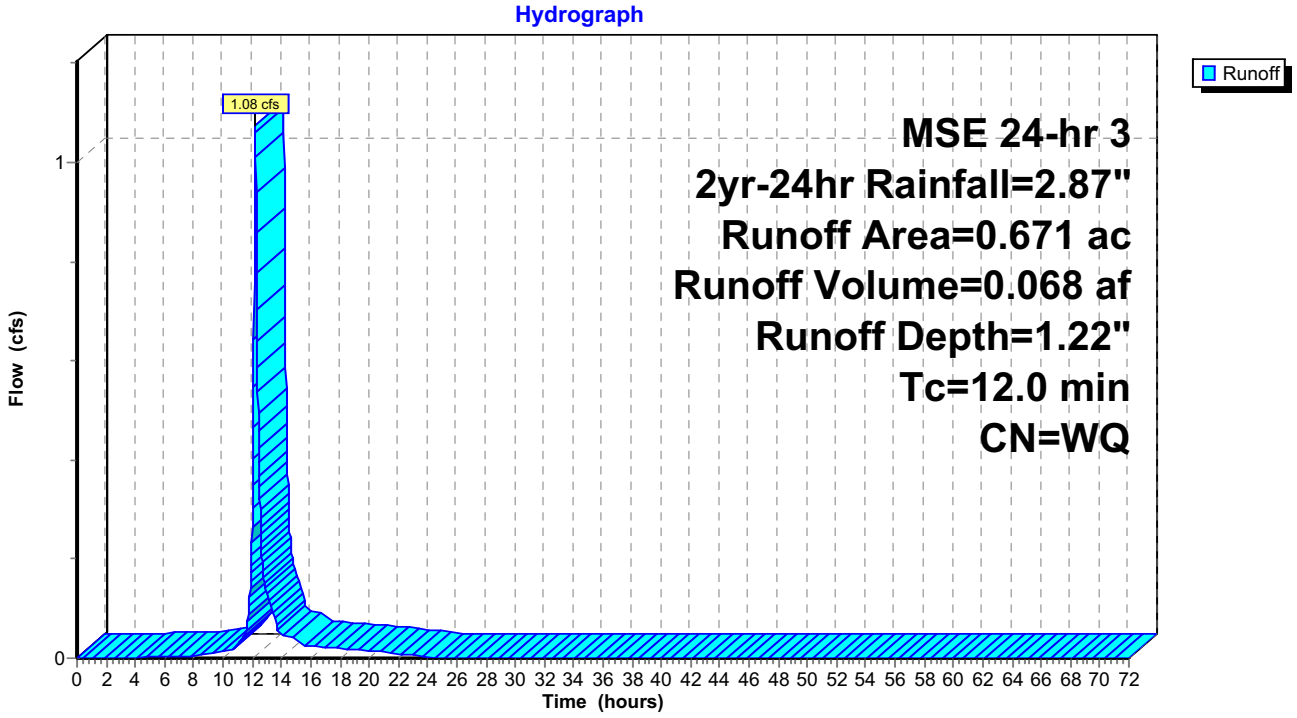
Runoff = 1.08 cfs @ 12.20 hrs, Volume= 0.068 af, Depth= 1.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.145	98	Impervious
	0.526	74	>75% Grass cover, Good, HSG C
	0.671		Weighted Average
	0.526		78.39% Pervious Area
	0.145		21.61% Impervious Area

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

Subcatchment A9: A9



Summary for Subcatchment B5: B5

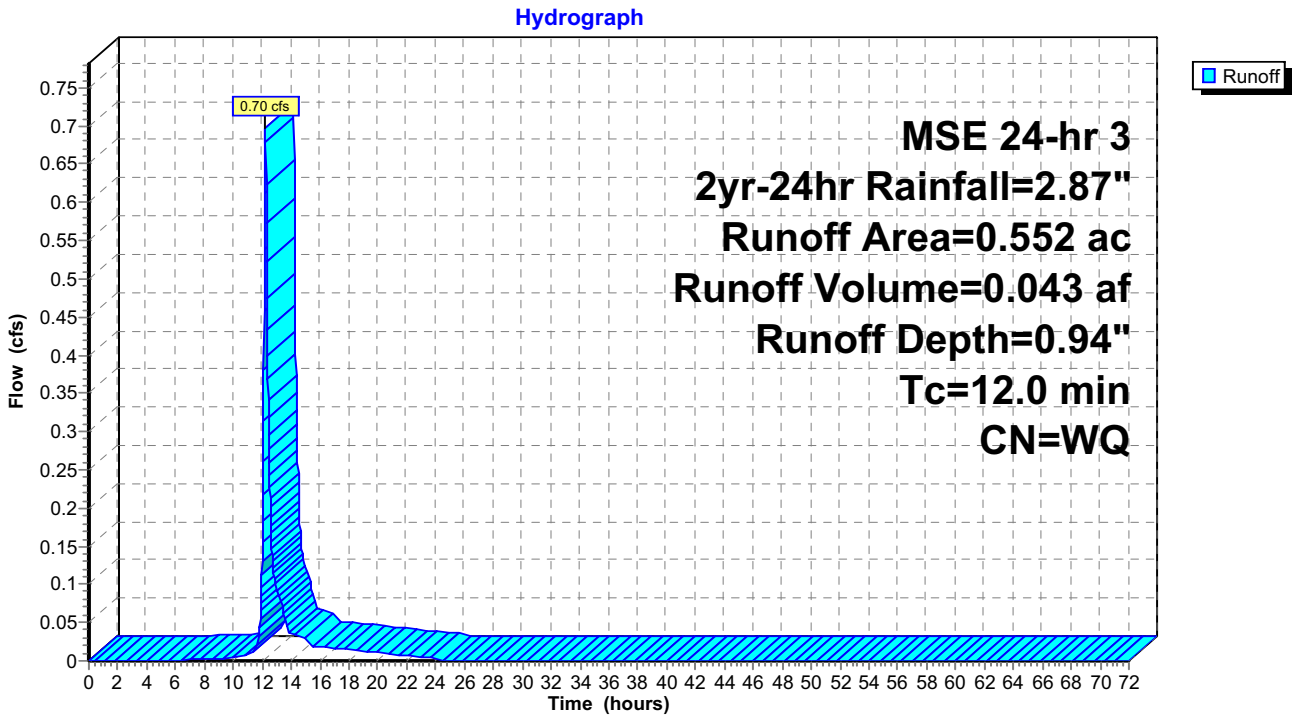
Runoff = 0.70 cfs @ 12.21 hrs, Volume= 0.043 af, Depth= 0.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.040	98	Impervious
	0.358	74	>75% Grass cover, Good, HSG C
	0.154	73	Woods, Fair, HSG C
	0.552		Weighted Average
	0.512		92.75% Pervious Area
	0.040		7.25% Impervious Area

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

Subcatchment B5: B5



Summary for Subcatchment B6: B6

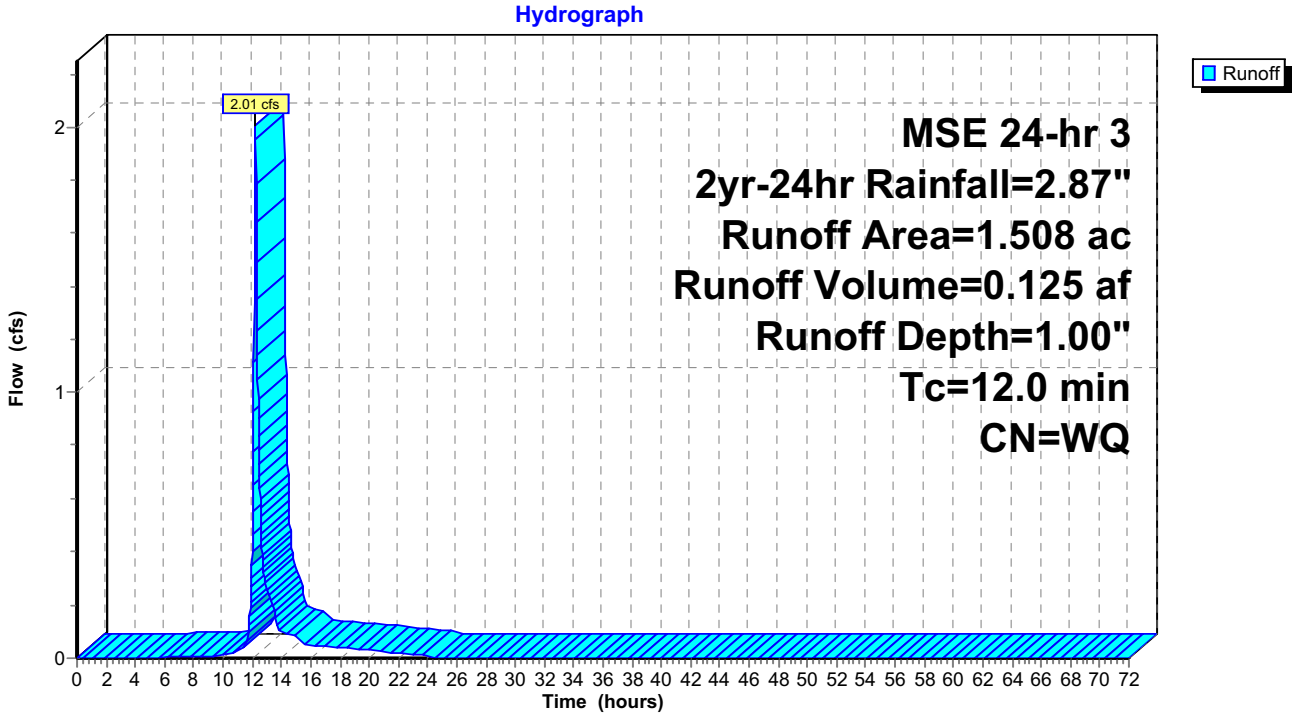
Runoff = 2.01 cfs @ 12.21 hrs, Volume= 0.125 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.140	98	Impervious
	1.368	74	>75% Grass cover, Good, HSG C
	1.508		Weighted Average
	1.368		90.72% Pervious Area
	0.140		9.28% Impervious Area

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

Subcatchment B6: B6



Summary for Subcatchment B7: B7

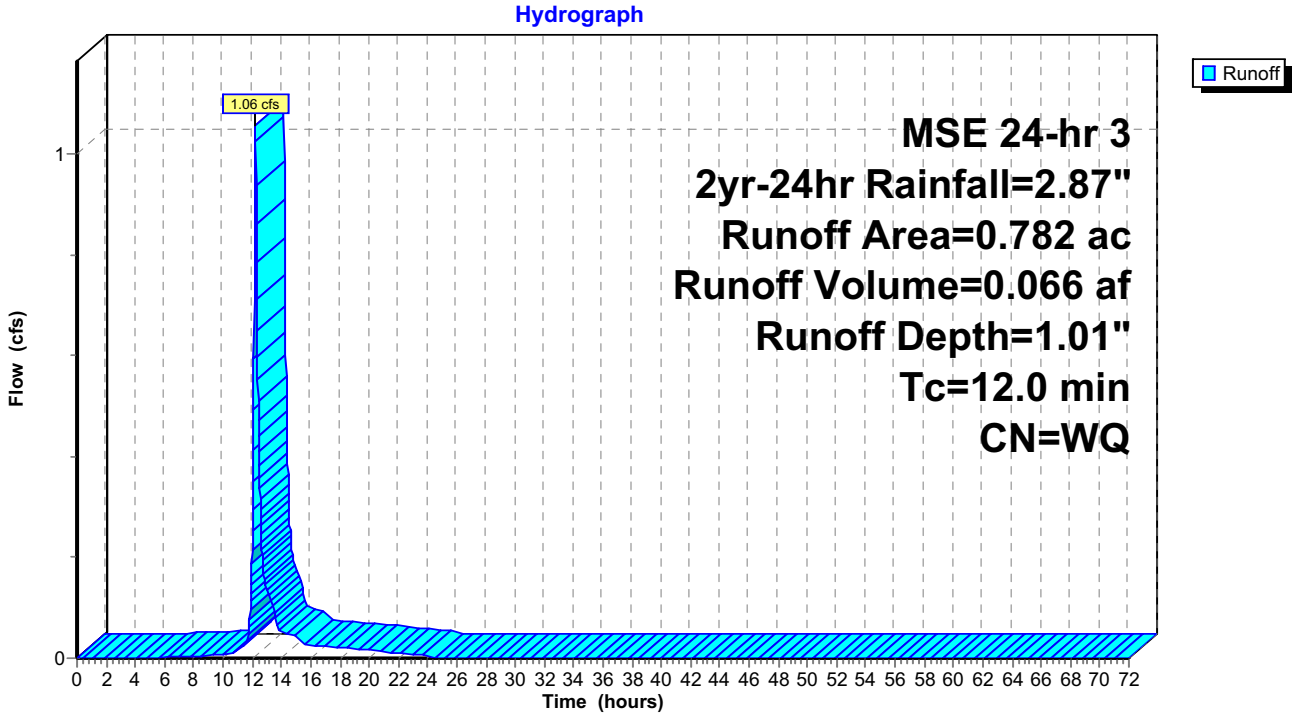
Runoff = 1.06 cfs @ 12.21 hrs, Volume= 0.066 af, Depth= 1.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.702	74	>75% Grass cover, Good, HSG C
*	0.080	98	Pond
	0.782		Weighted Average
	0.702		89.77% Pervious Area
	0.080		10.23% Impervious Area

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

Subcatchment B7: B7



Summary for Subcatchment B7_100: B7_100

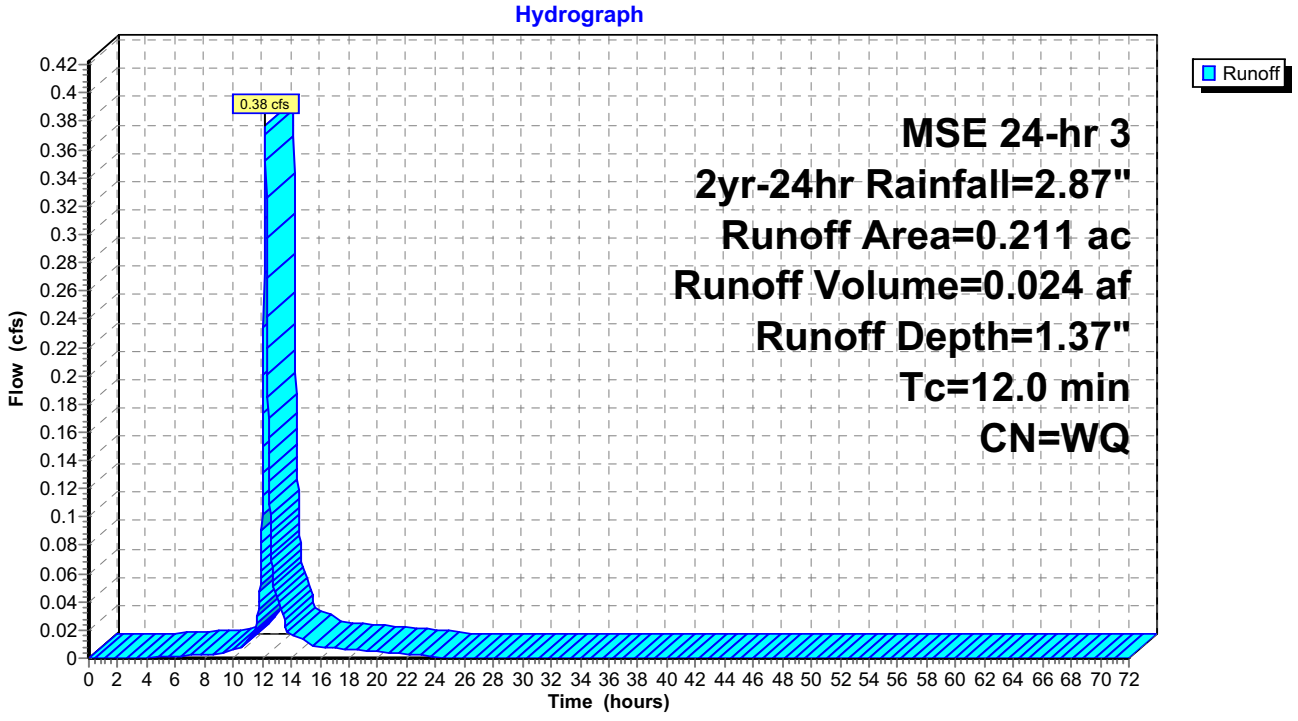
Runoff = 0.38 cfs @ 12.20 hrs, Volume= 0.024 af, Depth= 1.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.148	74	>75% Grass cover, Good, HSG C
*	0.063	98	Impervious
	0.211		Weighted Average
	0.148		70.14% Pervious Area
	0.063		29.86% Impervious Area

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

Subcatchment B7_100: B7_100



Summary for Subcatchment B8: B8

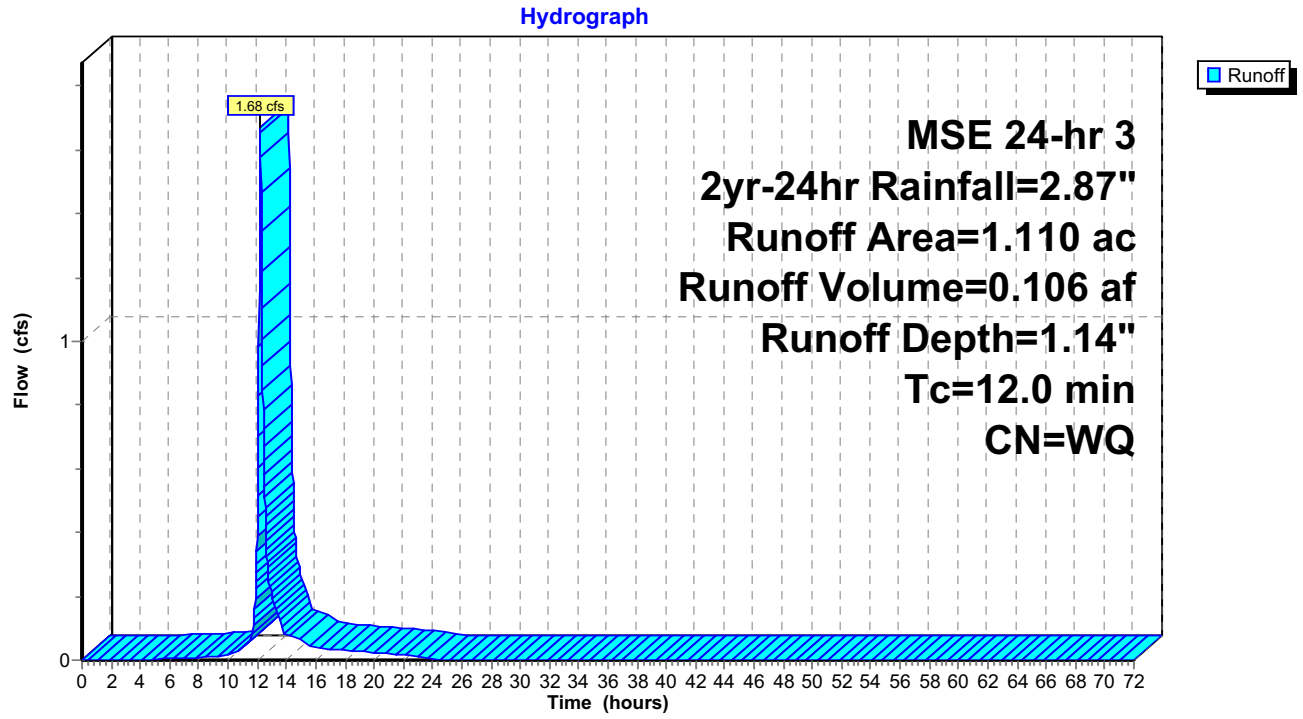
Runoff = 1.68 cfs @ 12.20 hrs, Volume= 0.106 af, Depth= 1.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.127	98	Impervious
	0.747	74	>75% Grass cover, Good, HSG C
*	0.071	98	Impervious
	0.165	73	Woods, Fair, HSG C
	1.110		Weighted Average
	0.912		82.16% Pervious Area
	0.198		17.84% Impervious Area

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

Subcatchment B8: B8



Summary for Subcatchment B8_100: B8_100

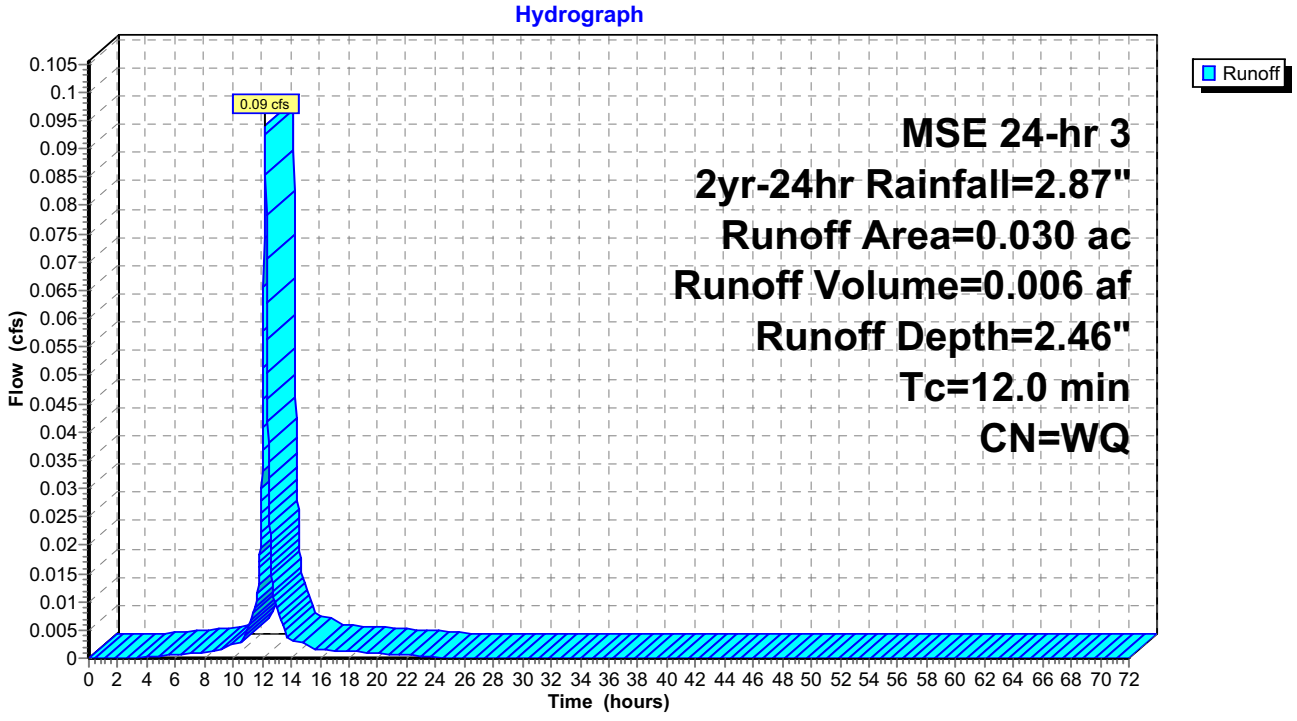
Runoff = 0.09 cfs @ 12.19 hrs, Volume= 0.006 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.003	74	>75% Grass cover, Good, HSG C
*	0.027	98	Impervious
	0.030		Weighted Average
	0.003		10.00% Pervious Area
	0.027		90.00% Impervious Area

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

Subcatchment B8_100: B8_100



Summary for Subcatchment C10: C10

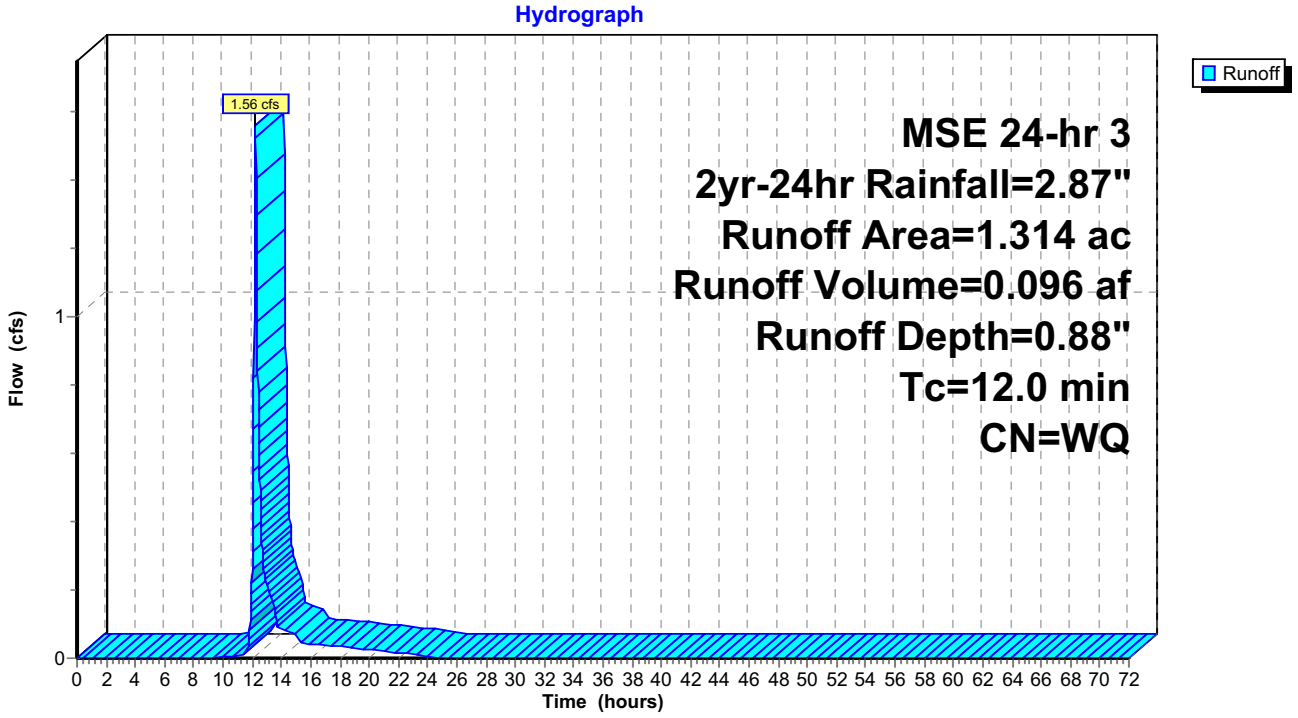
Runoff = 1.56 cfs @ 12.21 hrs, Volume= 0.096 af, Depth= 0.88"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.036	98	Impervious
	1.278	74	>75% Grass cover, Good, HSG C
	1.314		Weighted Average
	1.278		97.26% Pervious Area
	0.036		2.74% Impervious Area

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

Subcatchment C10: C10



Summary for Subcatchment C10_100: C10_100

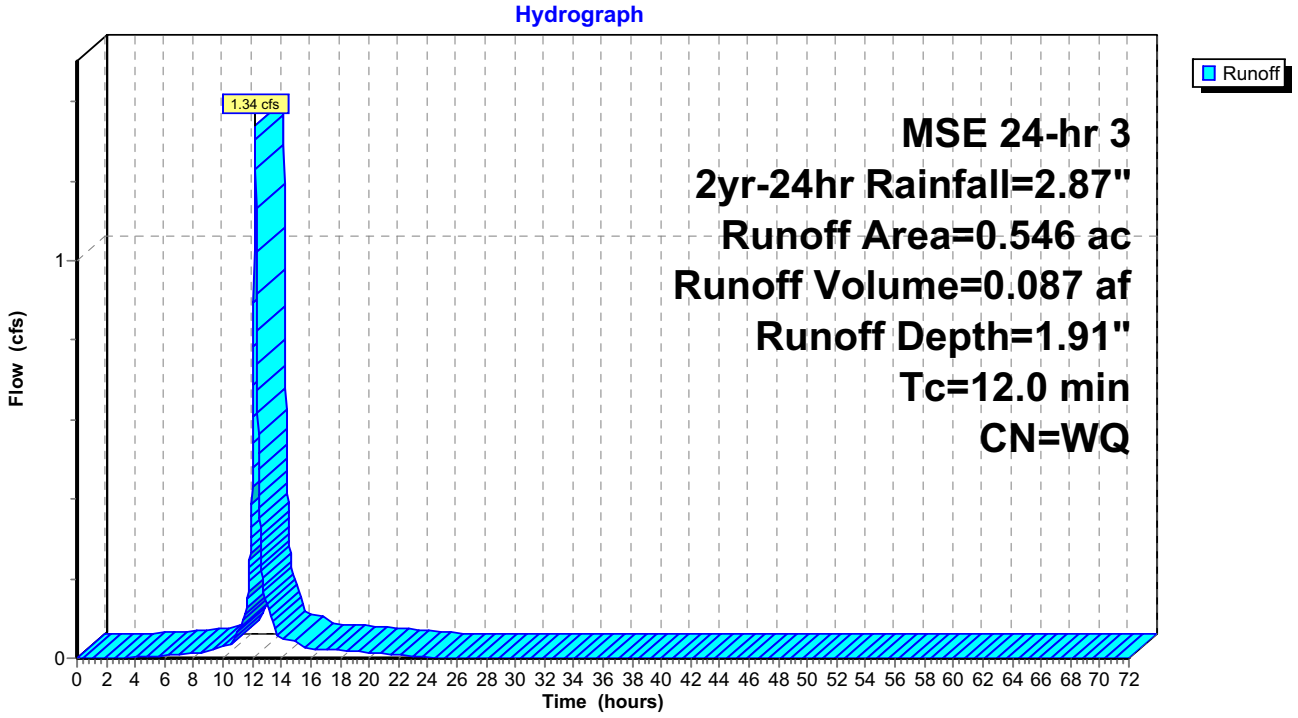
Runoff = 1.34 cfs @ 12.20 hrs, Volume= 0.087 af, Depth= 1.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.220	74	>75% Grass cover, Good, HSG C
*	0.326	98	Impervious
	0.546		Weighted Average
	0.220		40.29% Pervious Area
	0.326		59.71% Impervious Area

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

Subcatchment C10_100: C10_100



Summary for Subcatchment C6: C6

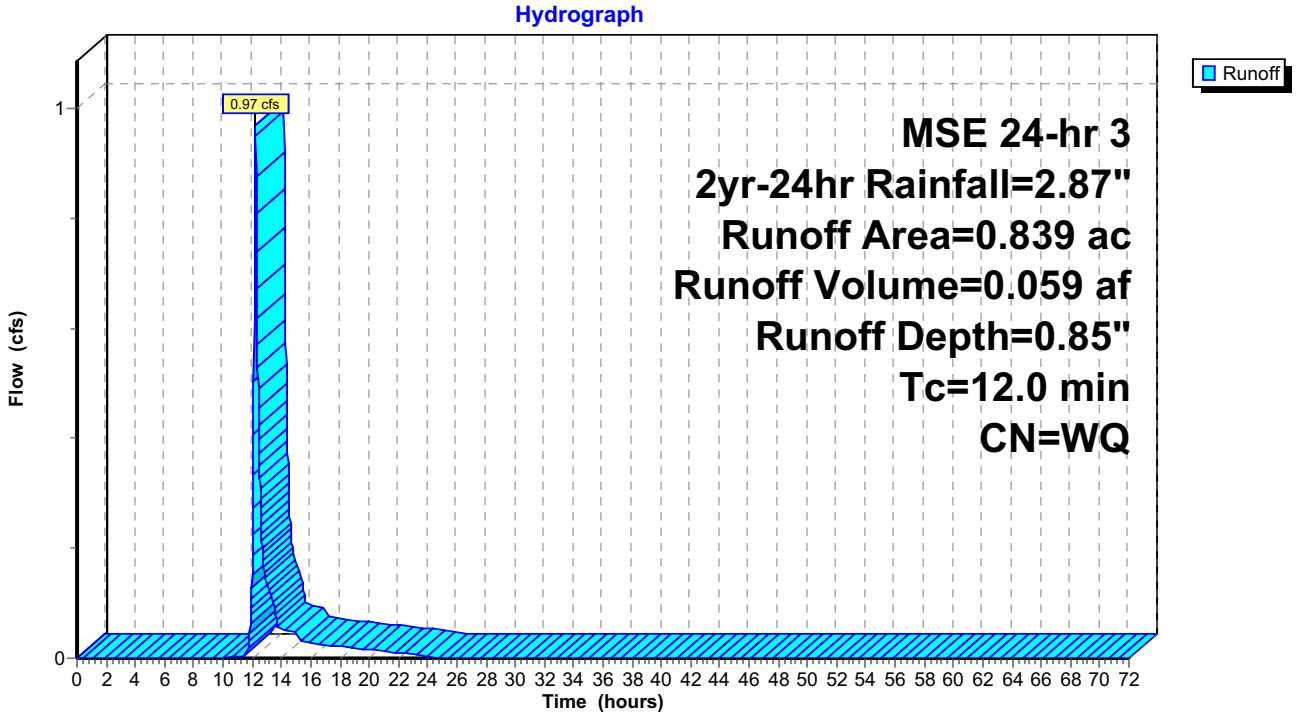
Runoff = 0.97 cfs @ 12.21 hrs, Volume= 0.059 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.011	98	Impervious
	0.828	74	>75% Grass cover, Good, HSG C
	0.839		Weighted Average
	0.828		98.69% Pervious Area
	0.011		1.31% Impervious Area

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

Subcatchment C6: C6



Summary for Subcatchment C7: C7

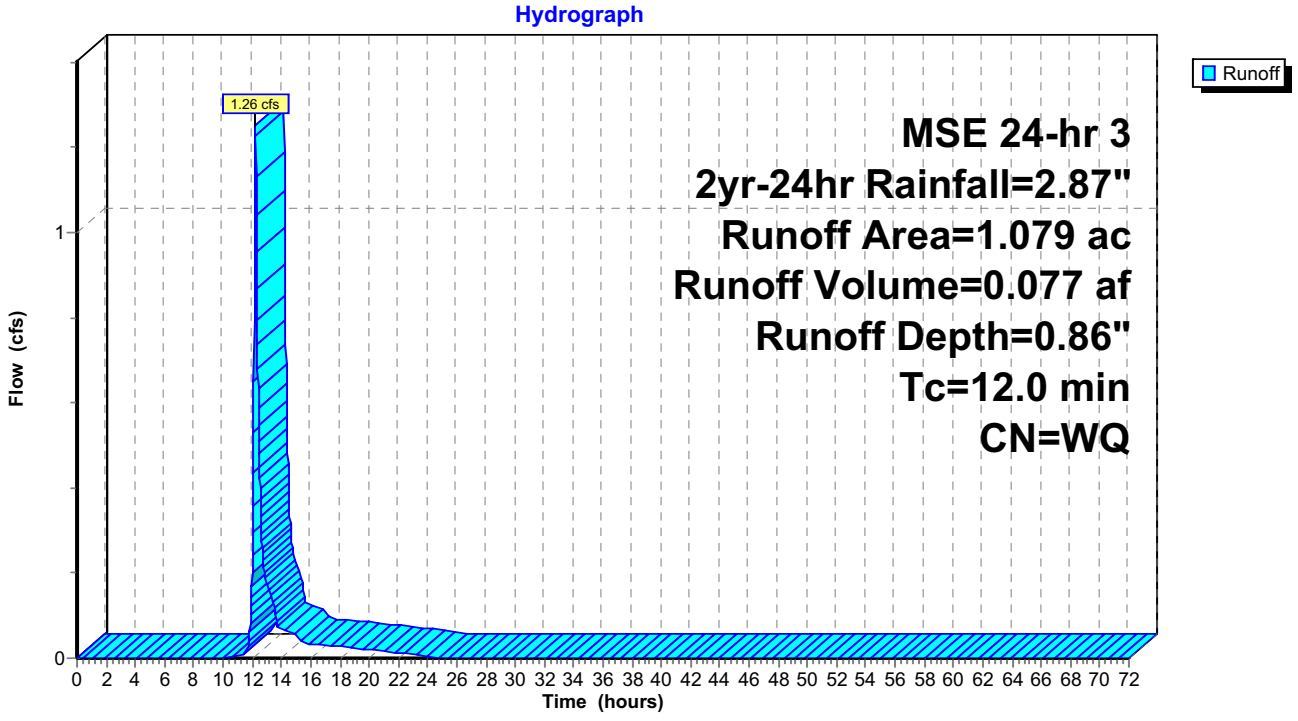
Runoff = 1.26 cfs @ 12.21 hrs, Volume= 0.077 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.018	98	Impervious
	1.061	74	>75% Grass cover, Good, HSG C
	1.079		Weighted Average
	1.061		98.33% Pervious Area
	0.018		1.67% Impervious Area

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

Subcatchment C7: C7



Summary for Subcatchment C7_100: C7_100

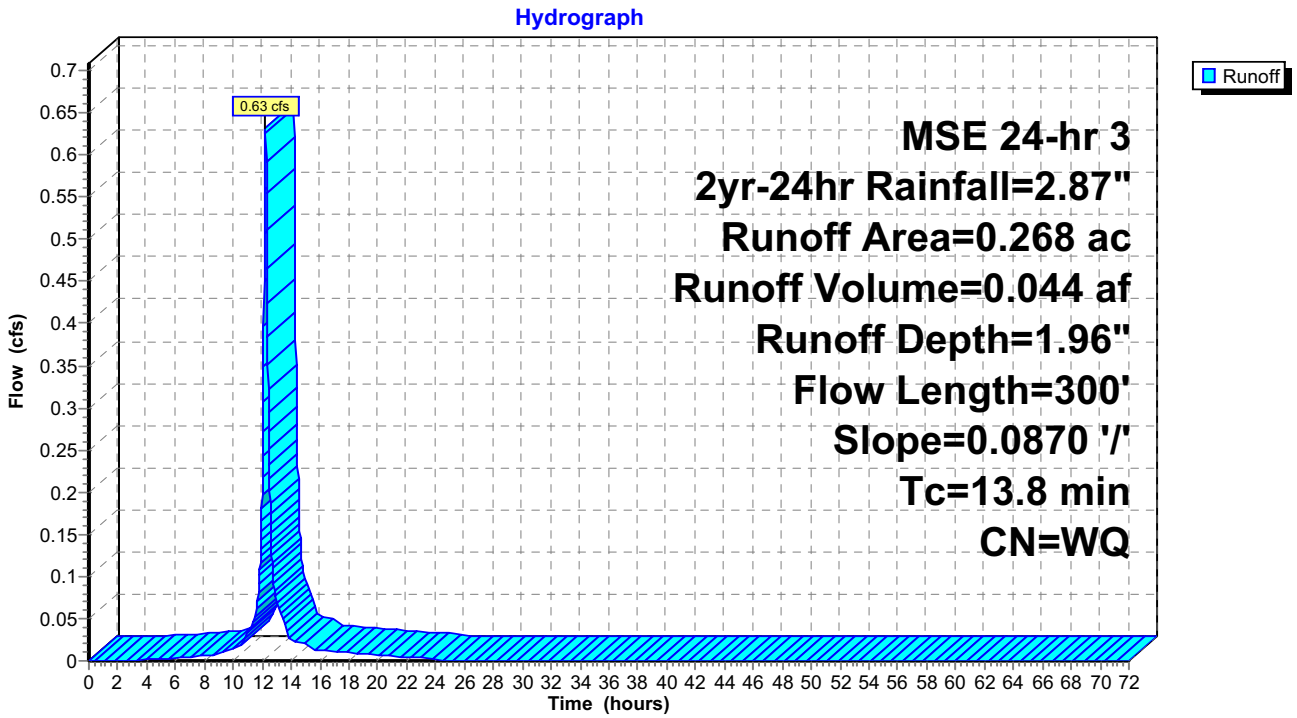
Runoff = 0.63 cfs @ 12.22 hrs, Volume= 0.044 af, Depth= 1.96"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.101	74	>75% Grass cover, Good, HSG C
*	0.167	98	Impervious
	0.268		Weighted Average
	0.101		37.69% Pervious Area
	0.167		62.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	300	0.0870	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment C7_100: C7_100



Summary for Subcatchment C8: C8

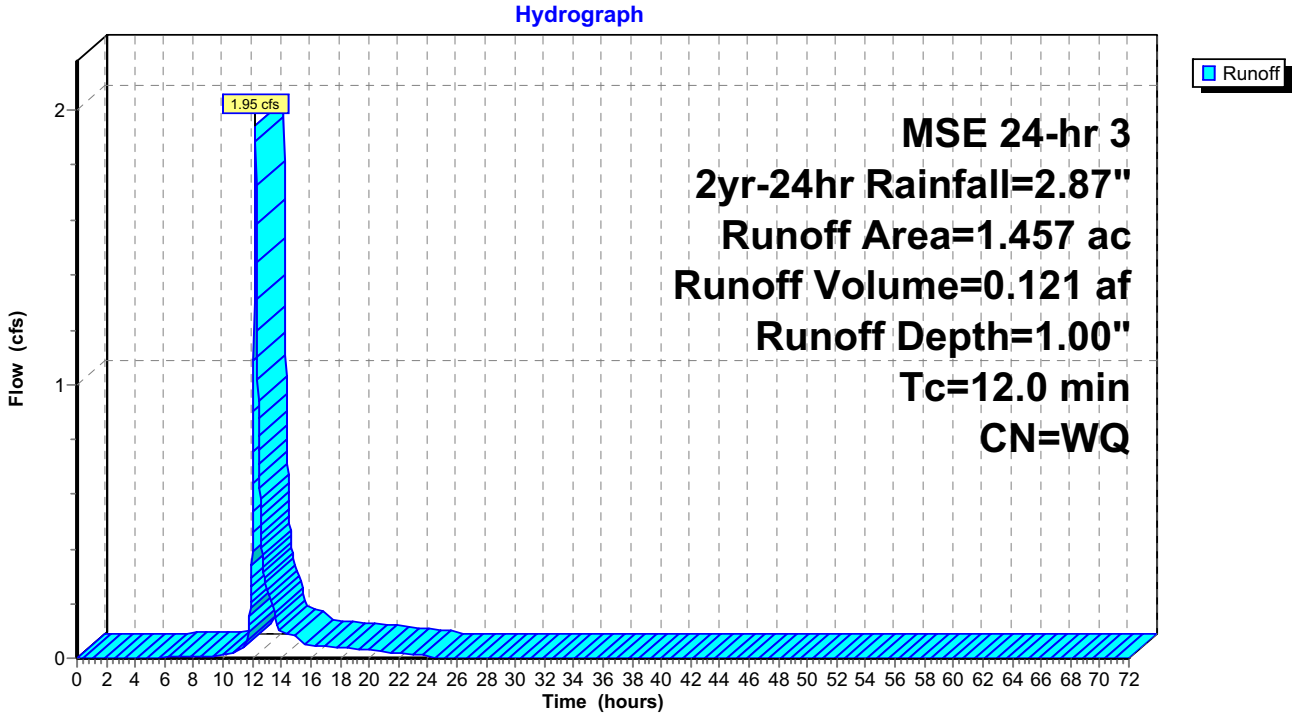
Runoff = 1.95 cfs @ 12.21 hrs, Volume= 0.121 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.138	98	Impervious
	1.319	74	>75% Grass cover, Good, HSG C
	1.457		Weighted Average
	1.319		90.53% Pervious Area
	0.138		9.47% Impervious Area

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

Subcatchment C8: C8



Summary for Subcatchment C8_100: C8_100

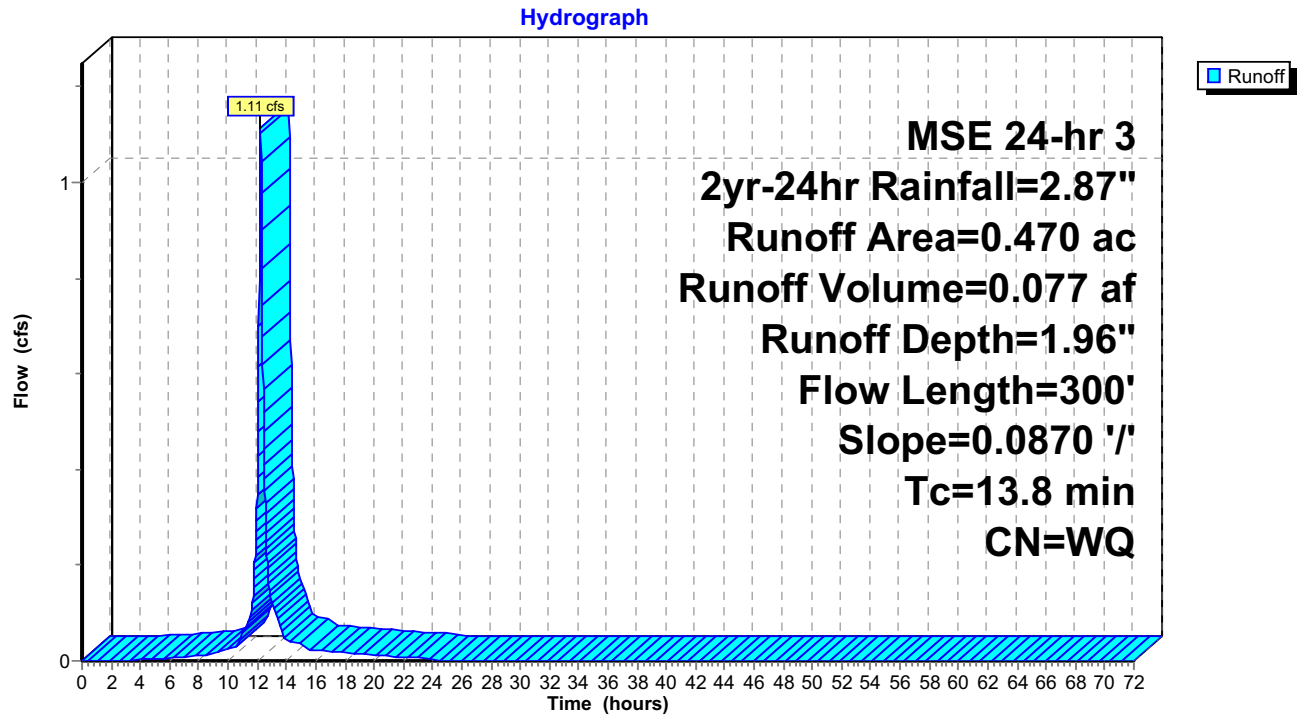
Runoff = 1.11 cfs @ 12.22 hrs, Volume= 0.077 af, Depth= 1.96"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.175	74	>75% Grass cover, Good, HSG C
*	0.295	98	Impervious
	0.470		Weighted Average
	0.175		37.23% Pervious Area
	0.295		62.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	300	0.0870	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment C8_100: C8_100



Summary for Subcatchment C9: C9

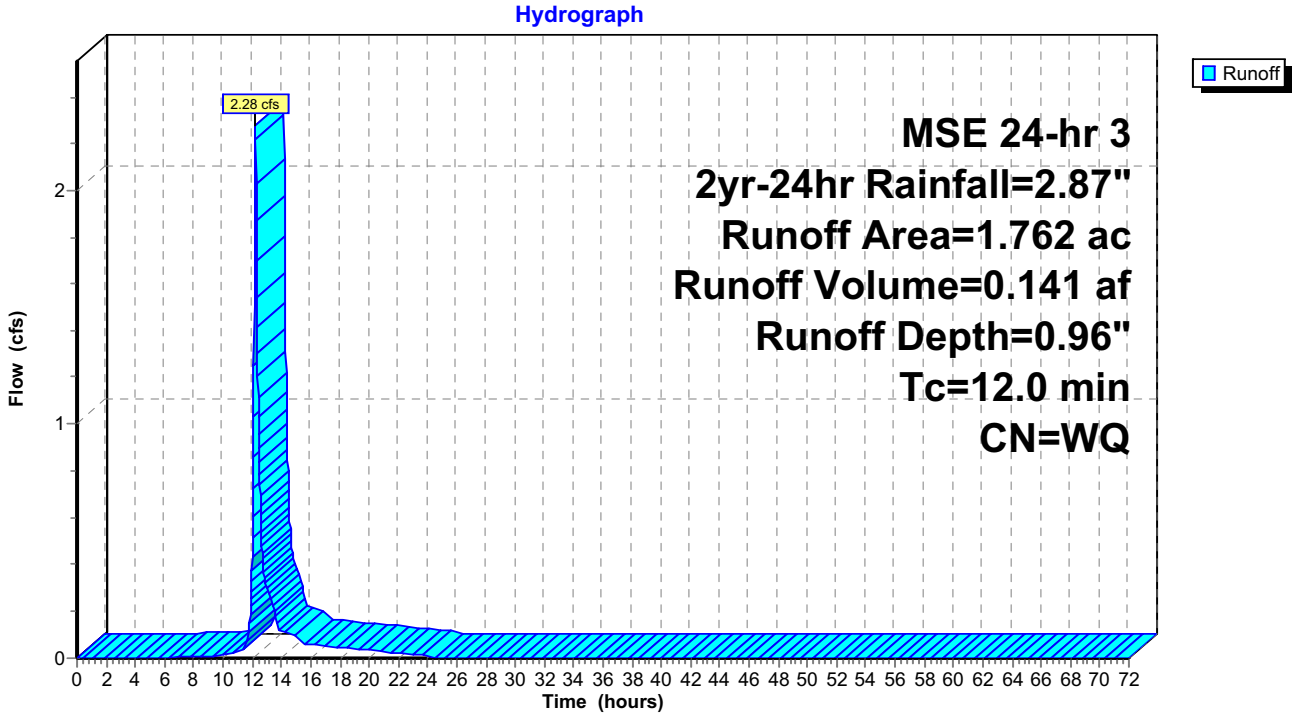
Runoff = 2.28 cfs @ 12.21 hrs, Volume= 0.141 af, Depth= 0.96"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.132	98	Impervious
	1.630	74	>75% Grass cover, Good, HSG C
	1.762		Weighted Average
	1.630		92.51% Pervious Area
	0.132		7.49% Impervious Area

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

Subcatchment C9: C9



Summary for Subcatchment C9_100: C9_100

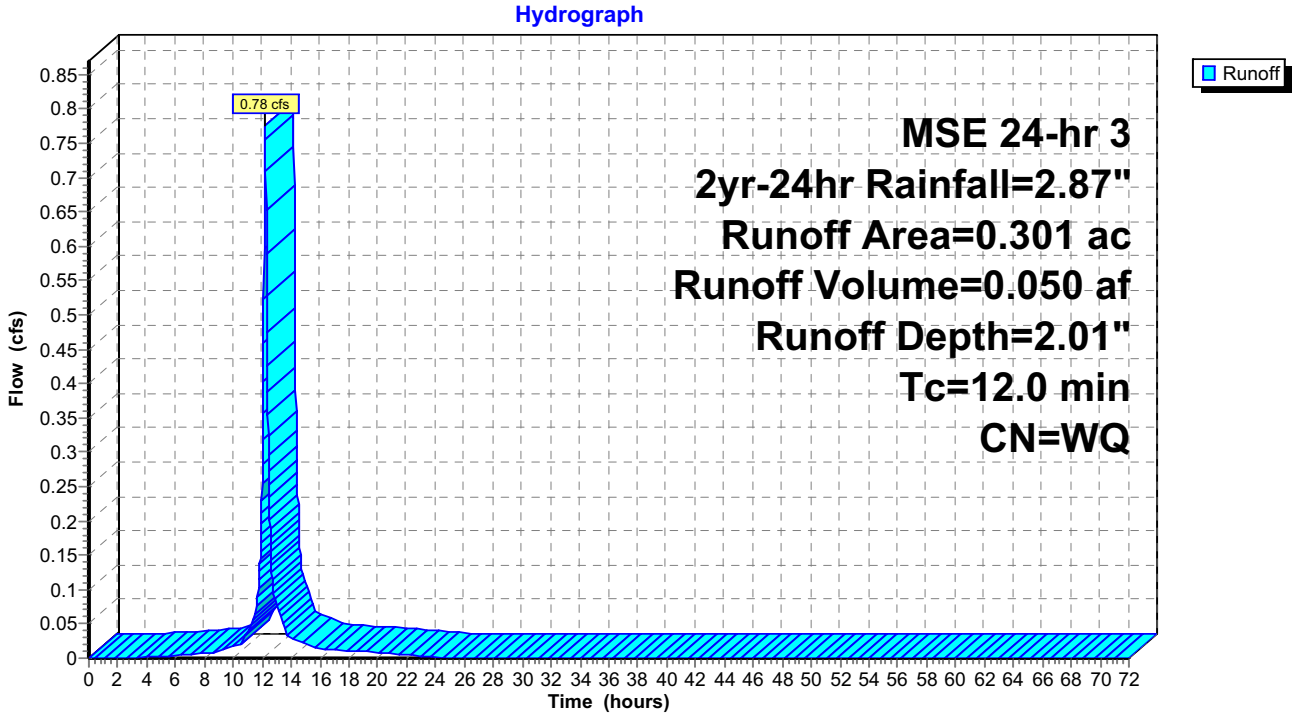
Runoff = 0.78 cfs @ 12.20 hrs, Volume= 0.050 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.105	74	>75% Grass cover, Good, HSG C
*	0.196	98	Impervious
	0.301		Weighted Average
	0.105		34.88% Pervious Area
	0.196		65.12% Impervious Area

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

Subcatchment C9_100: C9_100



Summary for Subcatchment D6: D6

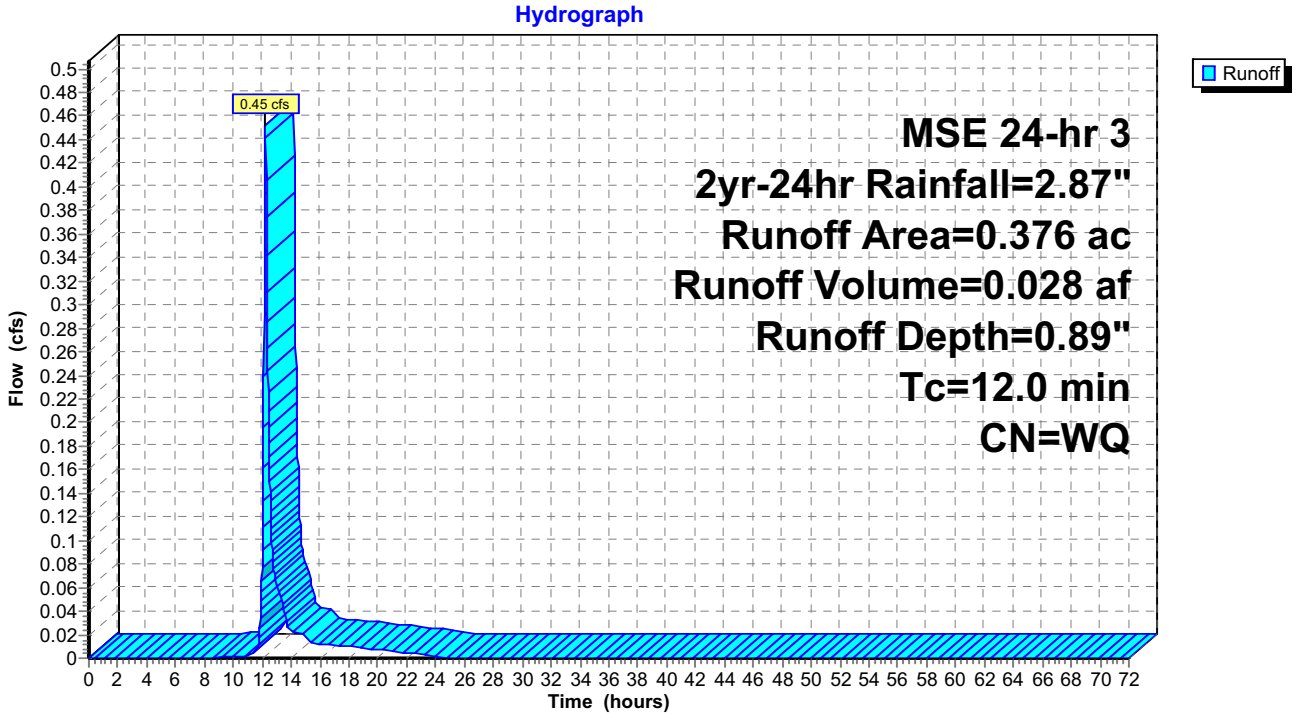
Runoff = 0.45 cfs @ 12.21 hrs, Volume= 0.028 af, Depth= 0.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.013	98	Impervious
	0.363	74	>75% Grass cover, Good, HSG C
	0.376		Weighted Average
	0.363		96.54% Pervious Area
	0.013		3.46% Impervious Area

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

Subcatchment D6: D6



Summary for Subcatchment D7: D7

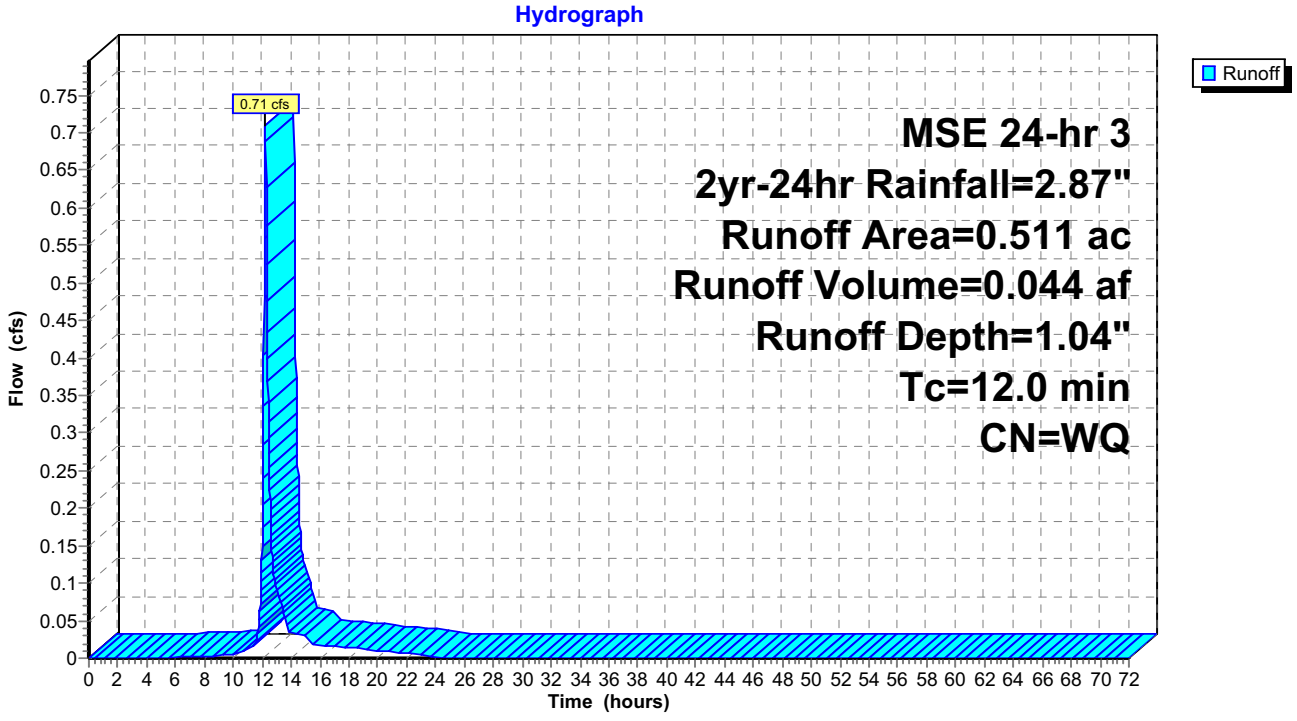
Runoff = 0.71 cfs @ 12.21 hrs, Volume= 0.044 af, Depth= 1.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.061	98	Impervious
	0.450	74	>75% Grass cover, Good, HSG C
	0.511		Weighted Average
	0.450		88.06% Pervious Area
	0.061		11.94% Impervious Area

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

Subcatchment D7: D7



Summary for Subcatchment D7_100: D7_100

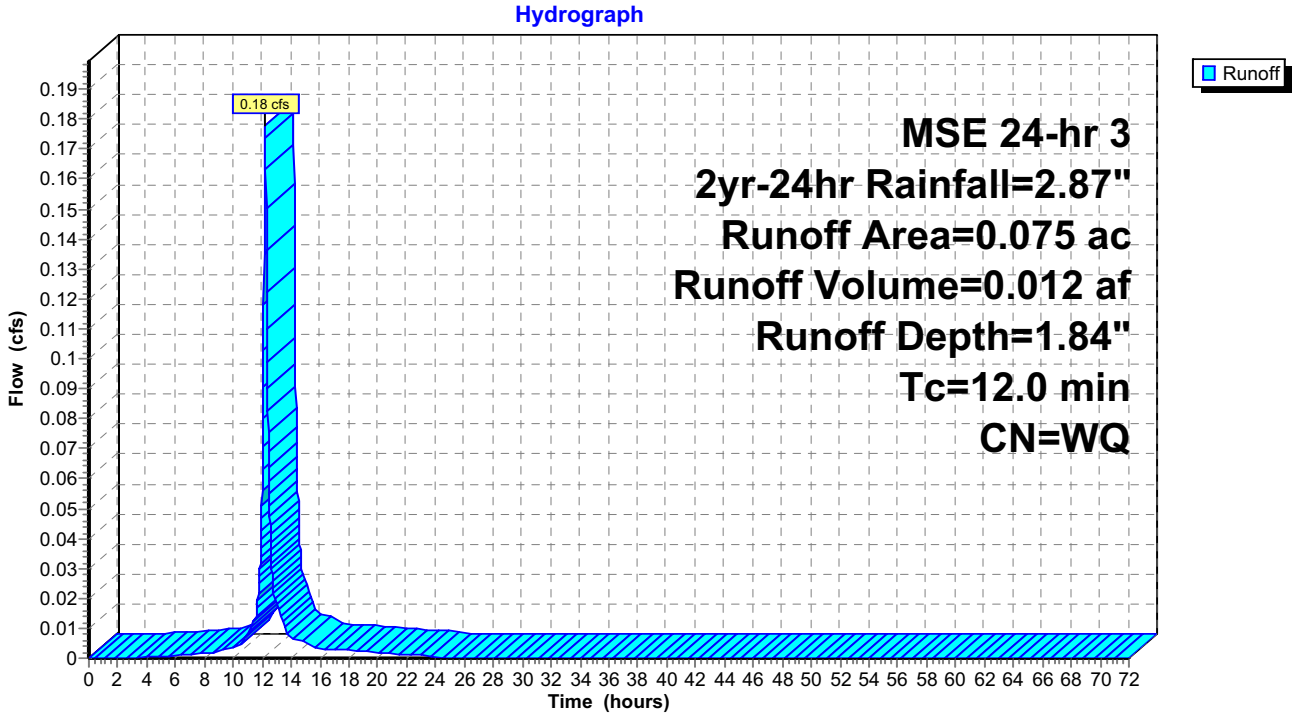
Runoff = 0.18 cfs @ 12.20 hrs, Volume= 0.012 af, Depth= 1.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.033	74	>75% Grass cover, Good, HSG C
*	0.042	98	Impervious
	0.075		Weighted Average
	0.033		44.00% Pervious Area
	0.042		56.00% Impervious Area

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

Subcatchment D7_100: D7_100



Summary for Subcatchment D8: D8

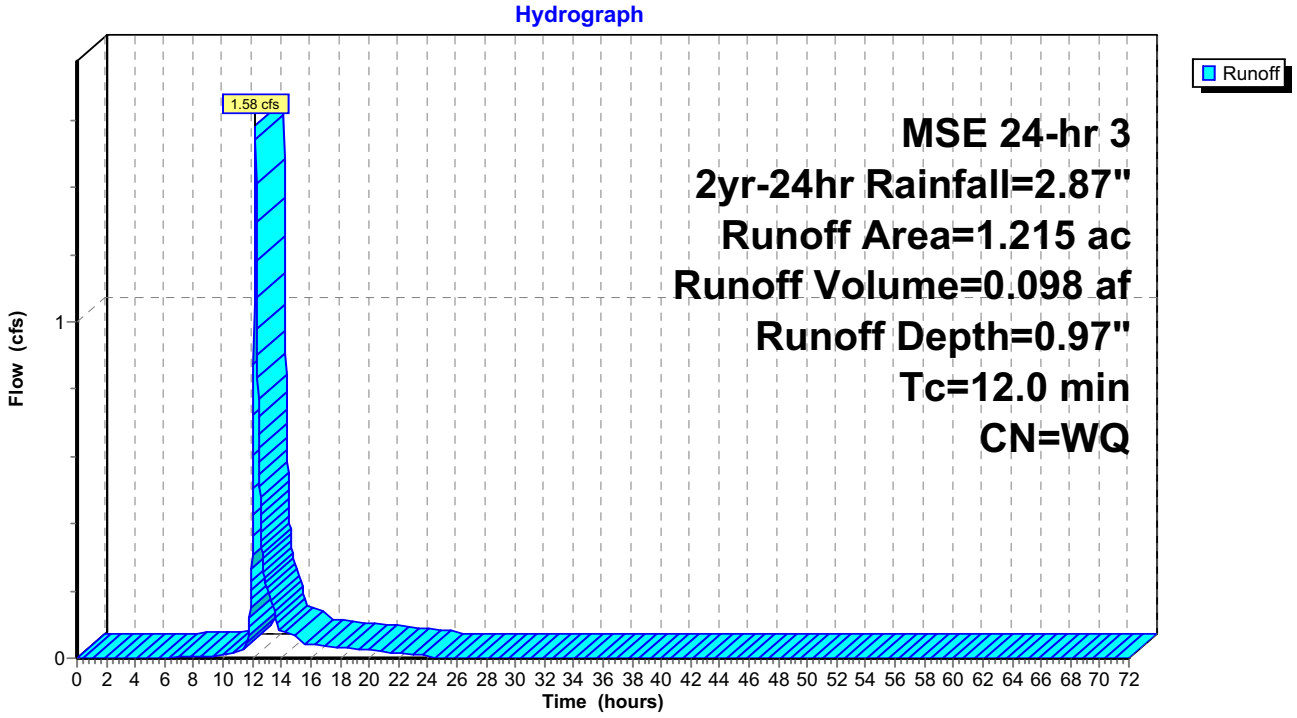
Runoff = 1.58 cfs @ 12.21 hrs, Volume= 0.098 af, Depth= 0.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.097	98	Impervious
	1.118	74	>75% Grass cover, Good, HSG C
	1.215		Weighted Average
	1.118		92.02% Pervious Area
	0.097		7.98% Impervious Area

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

Subcatchment D8: D8



Summary for Subcatchment D9: D9

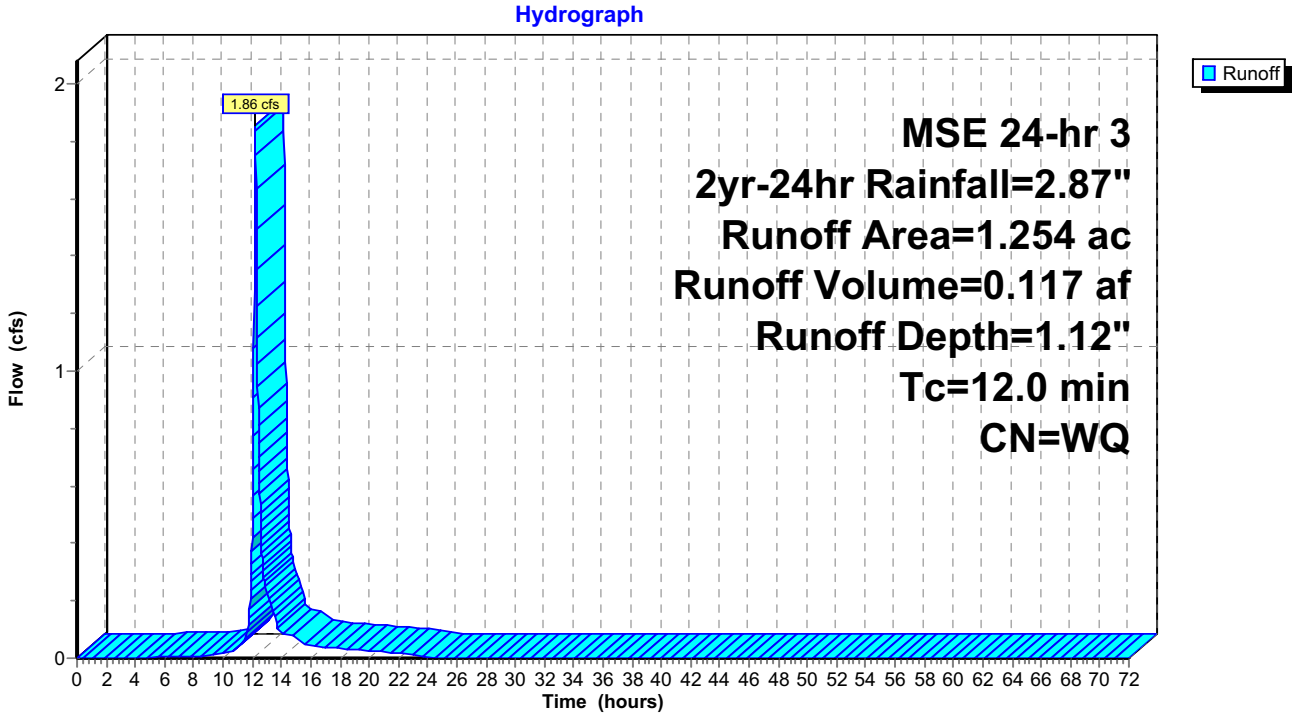
Runoff = 1.86 cfs @ 12.20 hrs, Volume= 0.117 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.202	98	Impervious
	1.052	74	>75% Grass cover, Good, HSG C
	1.254		Weighted Average
	1.052		83.89% Pervious Area
	0.202		16.11% Impervious Area

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

Subcatchment D9: D9



Summary for Subcatchment E13: E13

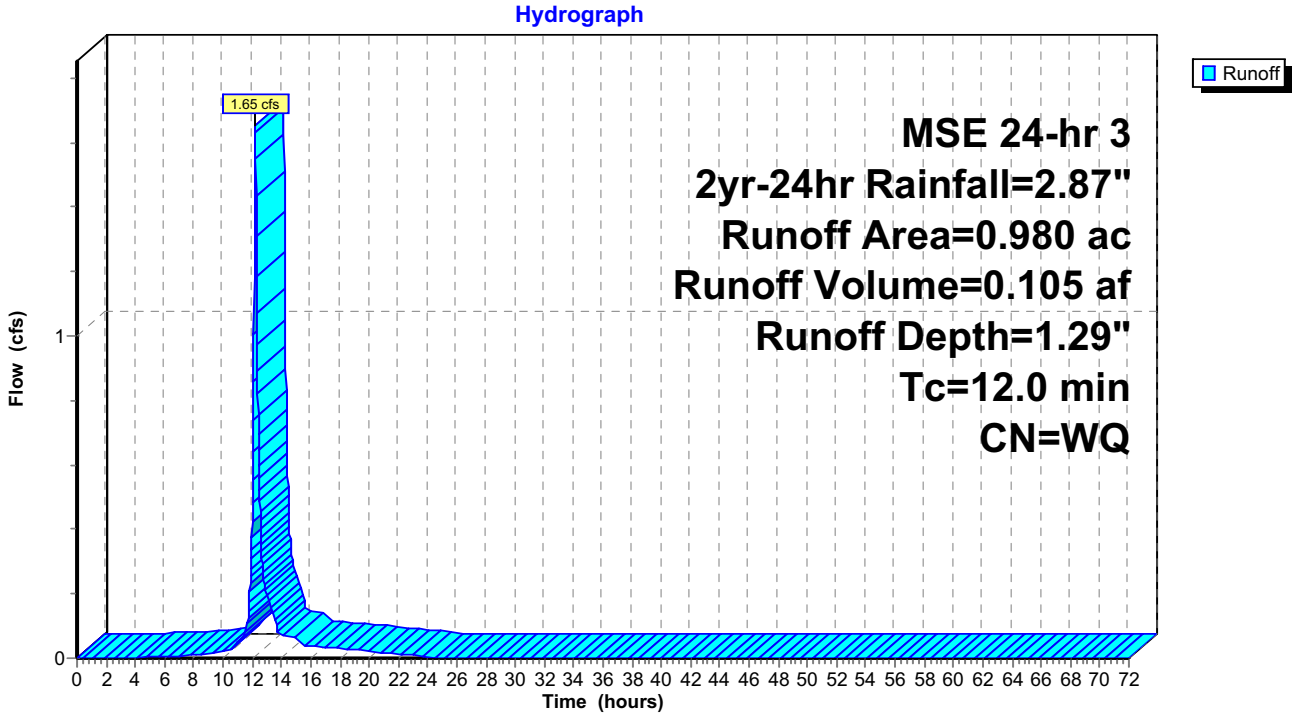
Runoff = 1.65 cfs @ 12.20 hrs, Volume= 0.105 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.248	98	Impervious
	0.732	74	>75% Grass cover, Good, HSG C
	0.980		Weighted Average
	0.732		74.69% Pervious Area
	0.248		25.31% Impervious Area

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

Subcatchment E13: E13



Summary for Subcatchment E15: E15

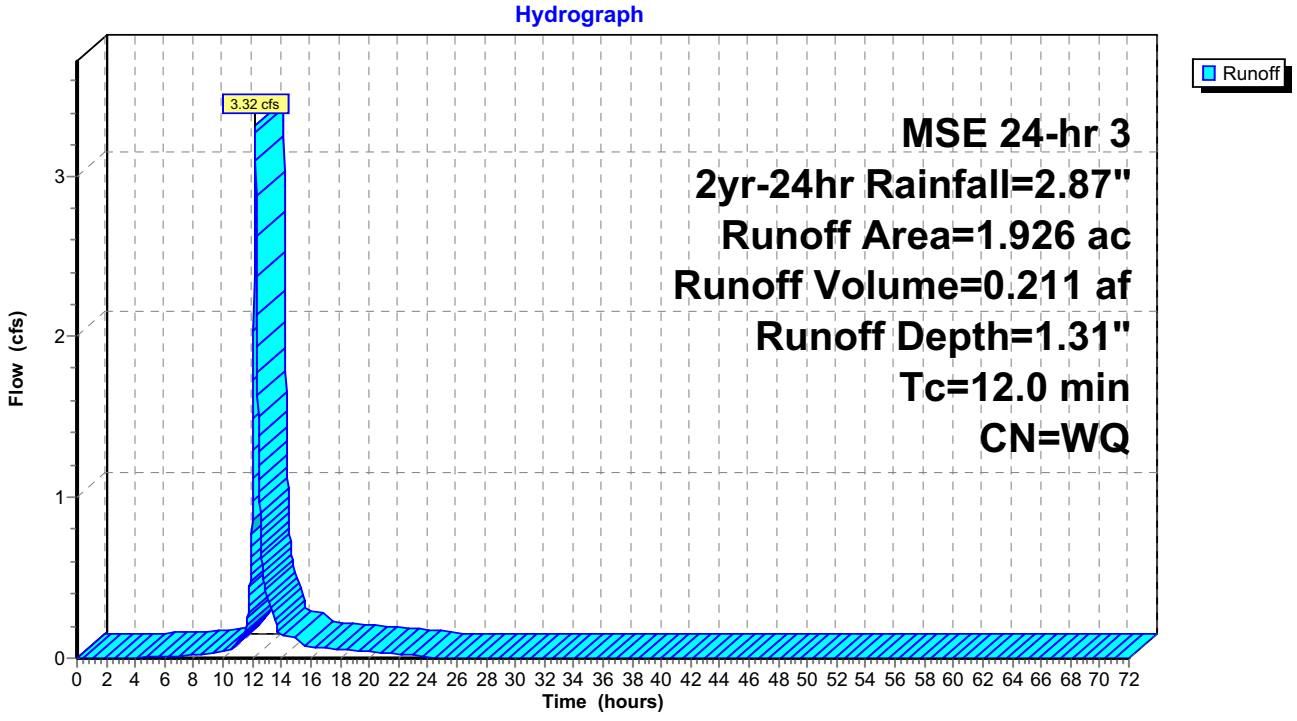
Runoff = 3.32 cfs @ 12.20 hrs, Volume= 0.211 af, Depth= 1.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.518	98	Impervious
	1.408	74	>75% Grass cover, Good, HSG C
	1.926		Weighted Average
	1.408		73.10% Pervious Area
	0.518		26.90% Impervious Area

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

Subcatchment E15: E15



Summary for Subcatchment E16: E16

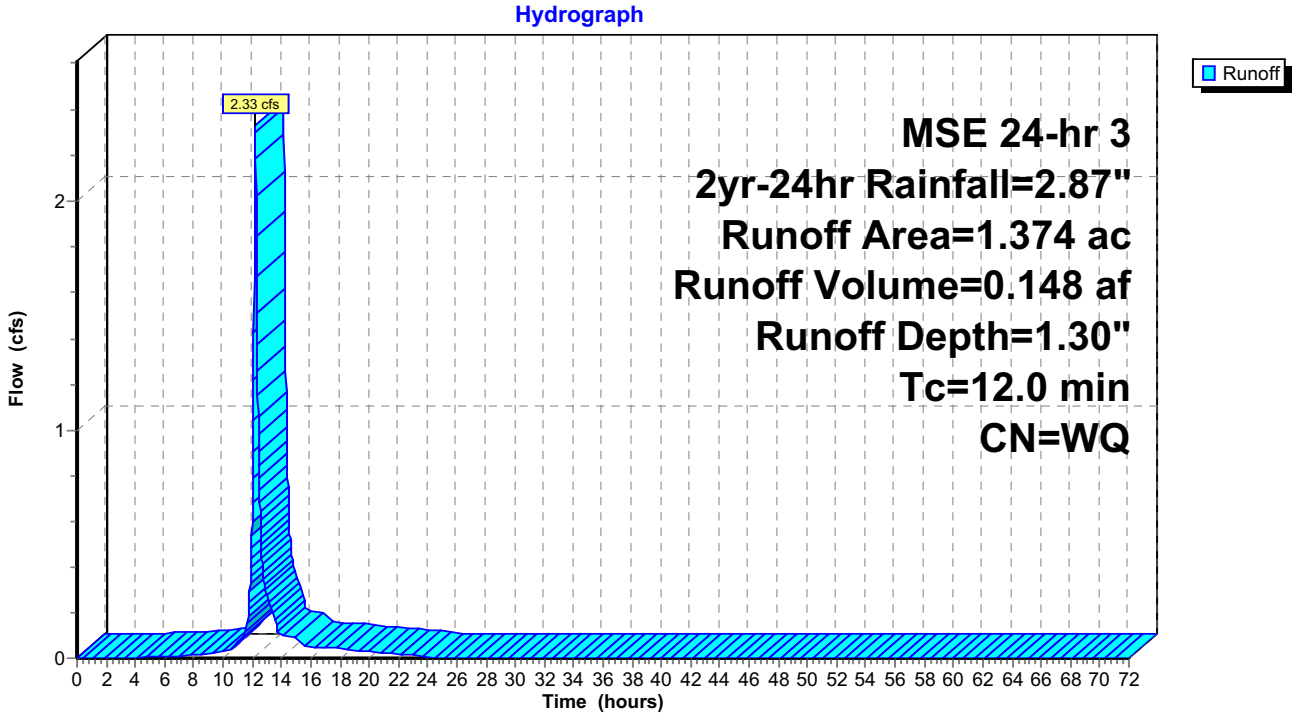
Runoff = 2.33 cfs @ 12.20 hrs, Volume= 0.148 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.355	98	Impervious
	1.019	74	>75% Grass cover, Good, HSG C
	1.374		Weighted Average
	1.019		74.16% Pervious Area
	0.355		25.84% Impervious Area

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

Subcatchment E16: E16



Summary for Subcatchment E17: E17

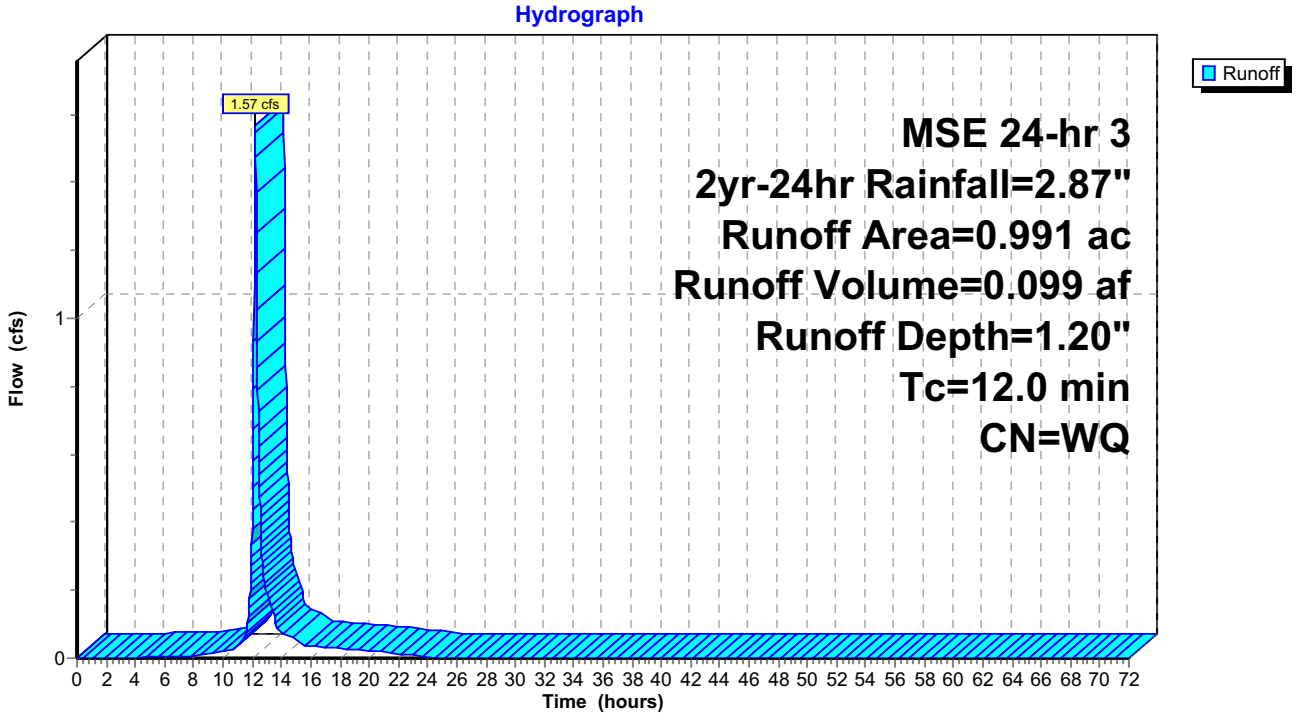
Runoff = 1.57 cfs @ 12.20 hrs, Volume= 0.099 af, Depth= 1.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.203	98	Impervious
	0.788	74	>75% Grass cover, Good, HSG C
	0.991		Weighted Average
	0.788		79.52% Pervious Area
	0.203		20.48% Impervious Area

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

Subcatchment E17: E17



Summary for Subcatchment E18: E18

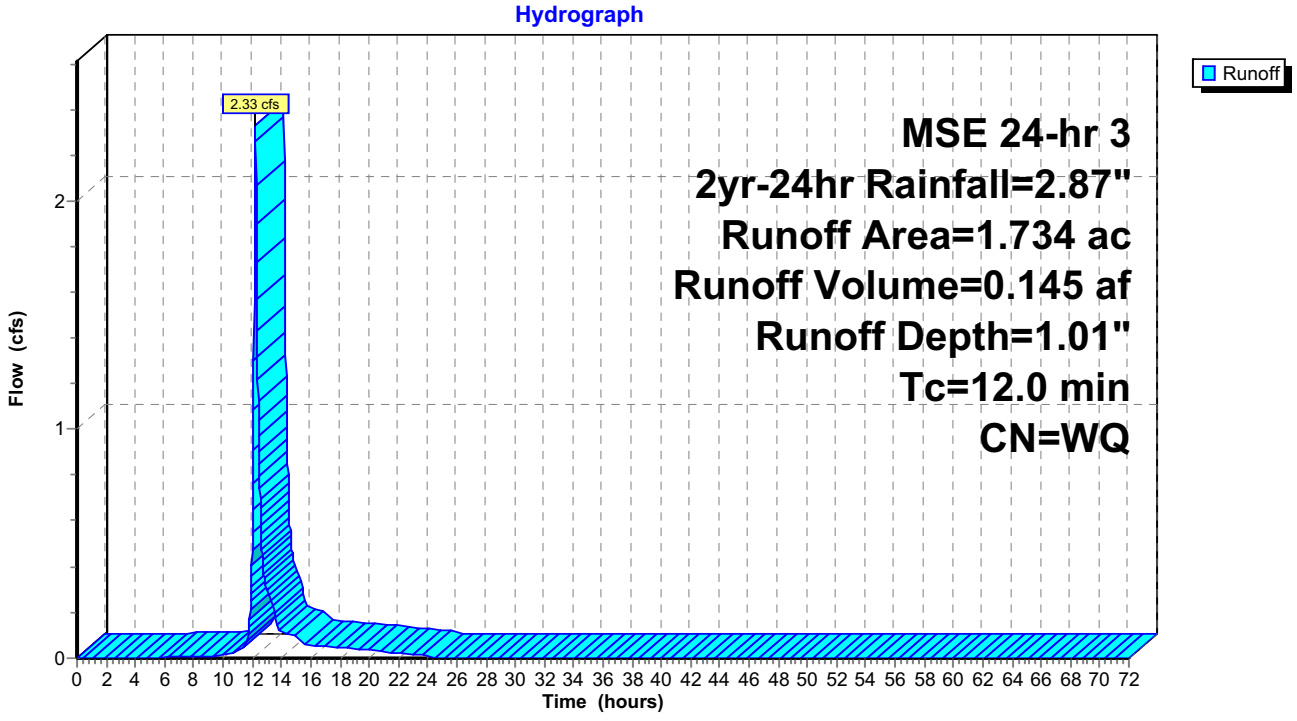
Runoff = 2.33 cfs @ 12.21 hrs, Volume= 0.145 af, Depth= 1.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.171	98	Impervious
	1.563	74	>75% Grass cover, Good, HSG C
	1.734		Weighted Average
	1.563		90.14% Pervious Area
	0.171		9.86% Impervious Area

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

Subcatchment E18: E18



Summary for Subcatchment F5: F5

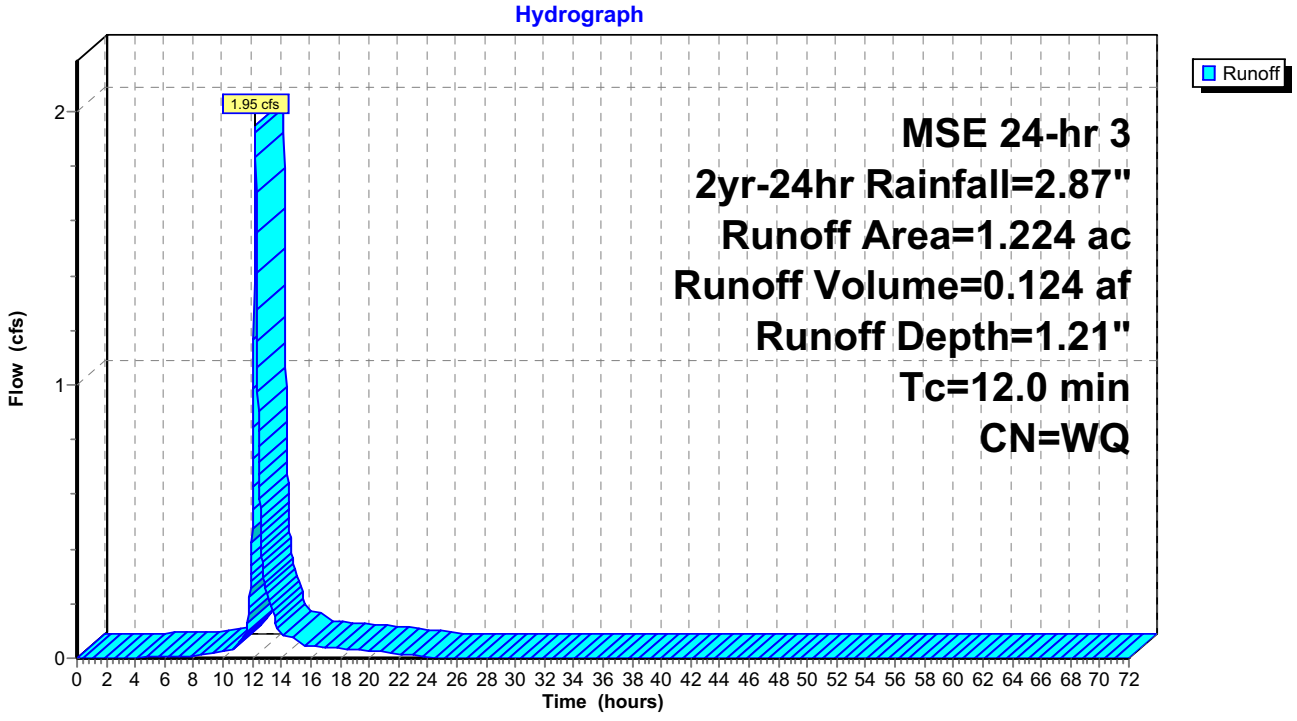
Runoff = 1.95 cfs @ 12.20 hrs, Volume= 0.124 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.260	98	Impervious
	0.964	74	>75% Grass cover, Good, HSG C
	1.224		Weighted Average
	0.964		78.76% Pervious Area
	0.260		21.24% Impervious Area

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

Subcatchment F5: F5



Summary for Subcatchment F6: F6

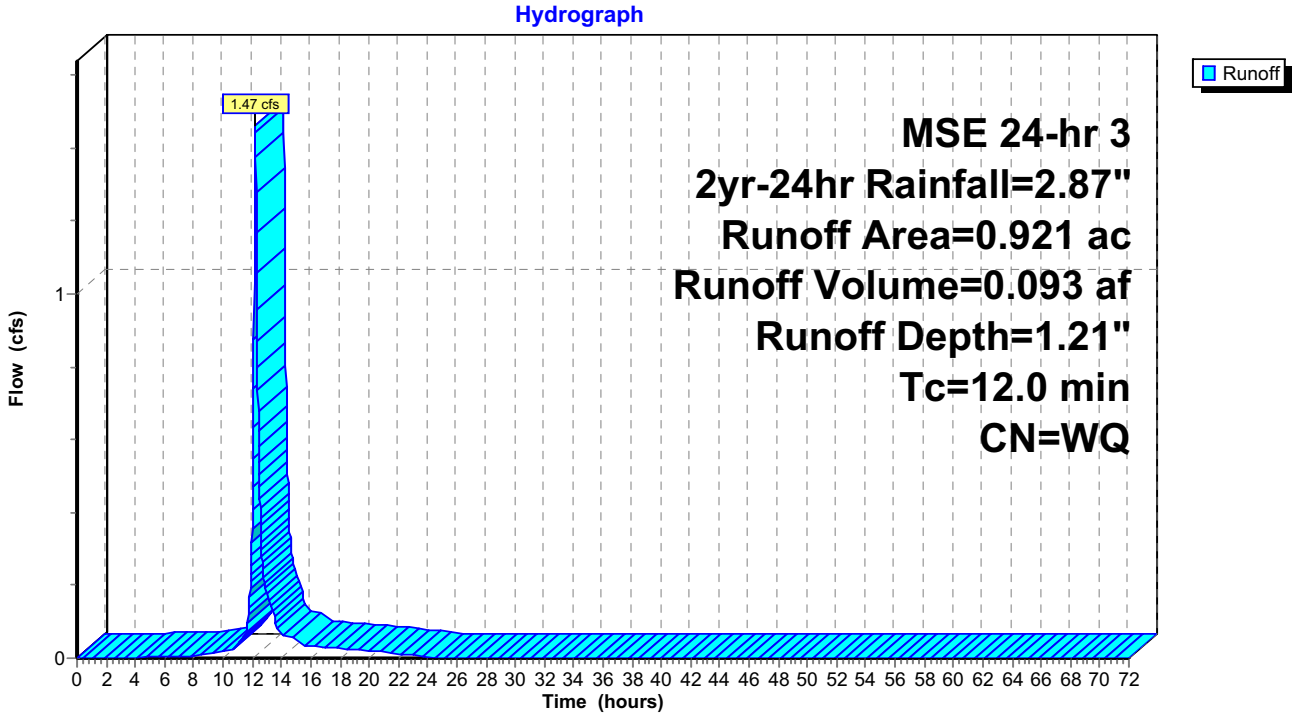
Runoff = 1.47 cfs @ 12.20 hrs, Volume= 0.093 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.194	98	Impervious
	0.727	74	>75% Grass cover, Good, HSG C
	0.921		Weighted Average
	0.727		78.94% Pervious Area
	0.194		21.06% Impervious Area

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

Subcatchment F6: F6



Summary for Subcatchment F7: F7

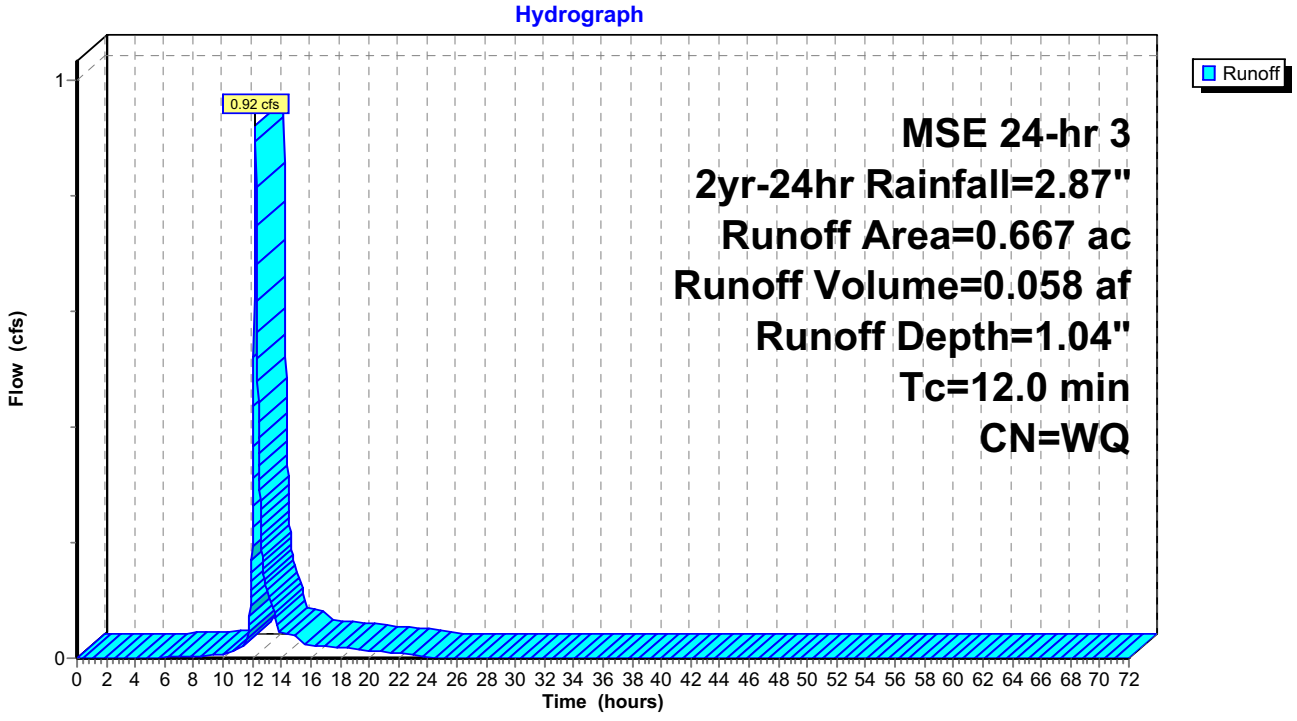
Runoff = 0.92 cfs @ 12.21 hrs, Volume= 0.058 af, Depth= 1.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.078	98	Impervious
	0.589	74	>75% Grass cover, Good, HSG C
	0.667		Weighted Average
	0.589		88.31% Pervious Area
	0.078		11.69% Impervious Area

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

Subcatchment F7: F7



Summary for Subcatchment F8: F8

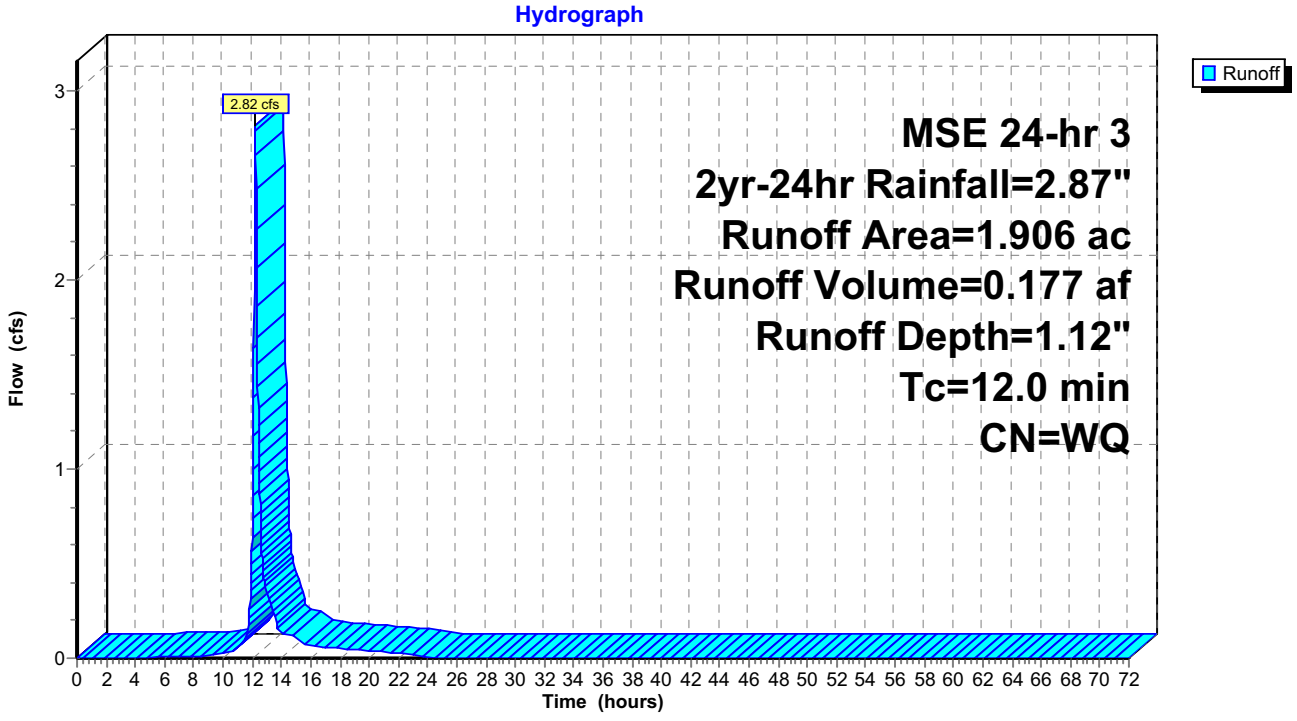
Runoff = 2.82 cfs @ 12.21 hrs, Volume= 0.177 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.305	98	Impervious
	1.601	74	>75% Grass cover, Good, HSG C
	1.906		Weighted Average
	1.601		84.00% Pervious Area
	0.305		16.00% Impervious Area

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

Subcatchment F8: F8



Summary for Subcatchment H5: H5

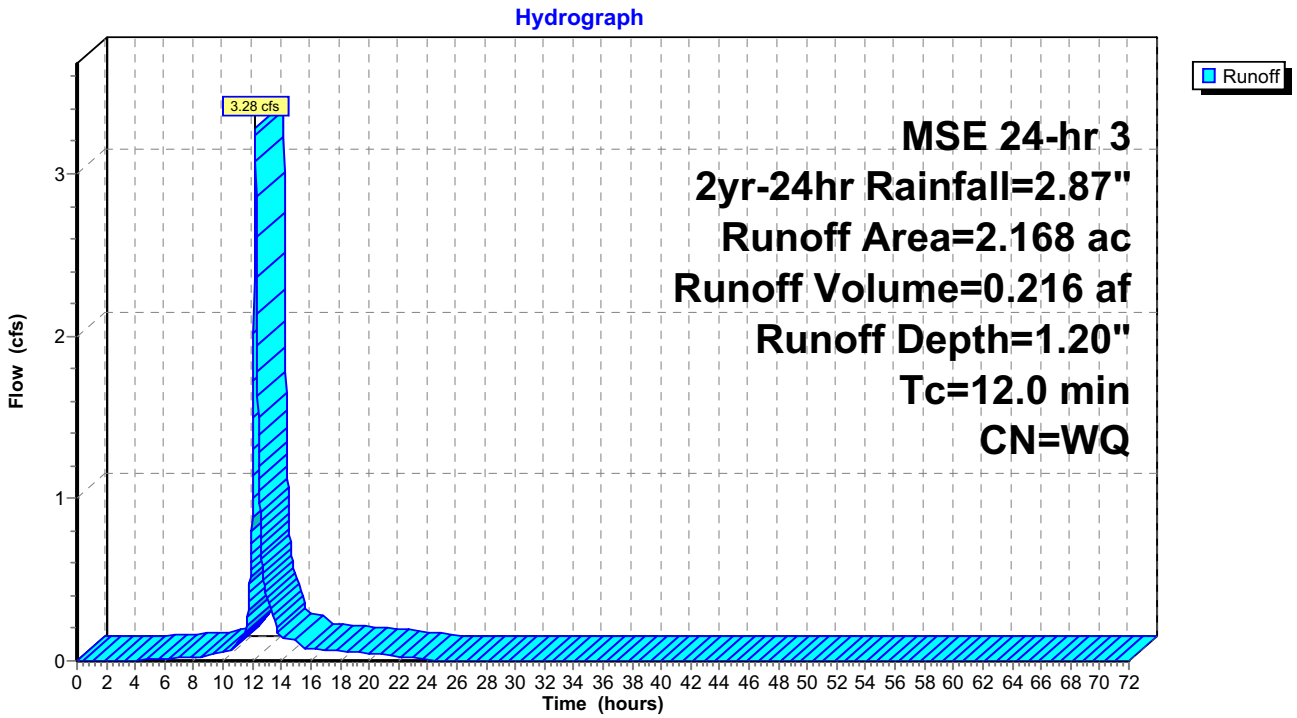
Runoff = 3.28 cfs @ 12.20 hrs, Volume= 0.216 af, Depth= 1.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.590	98	Impervious
	0.526	61	>75% Grass cover, Good, HSG B
	1.052	74	>75% Grass cover, Good, HSG C
	2.168		Weighted Average
	1.578		72.79% Pervious Area
	0.590		27.21% Impervious Area

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

Subcatchment H5: H5



Summary for Subcatchment H6: H6

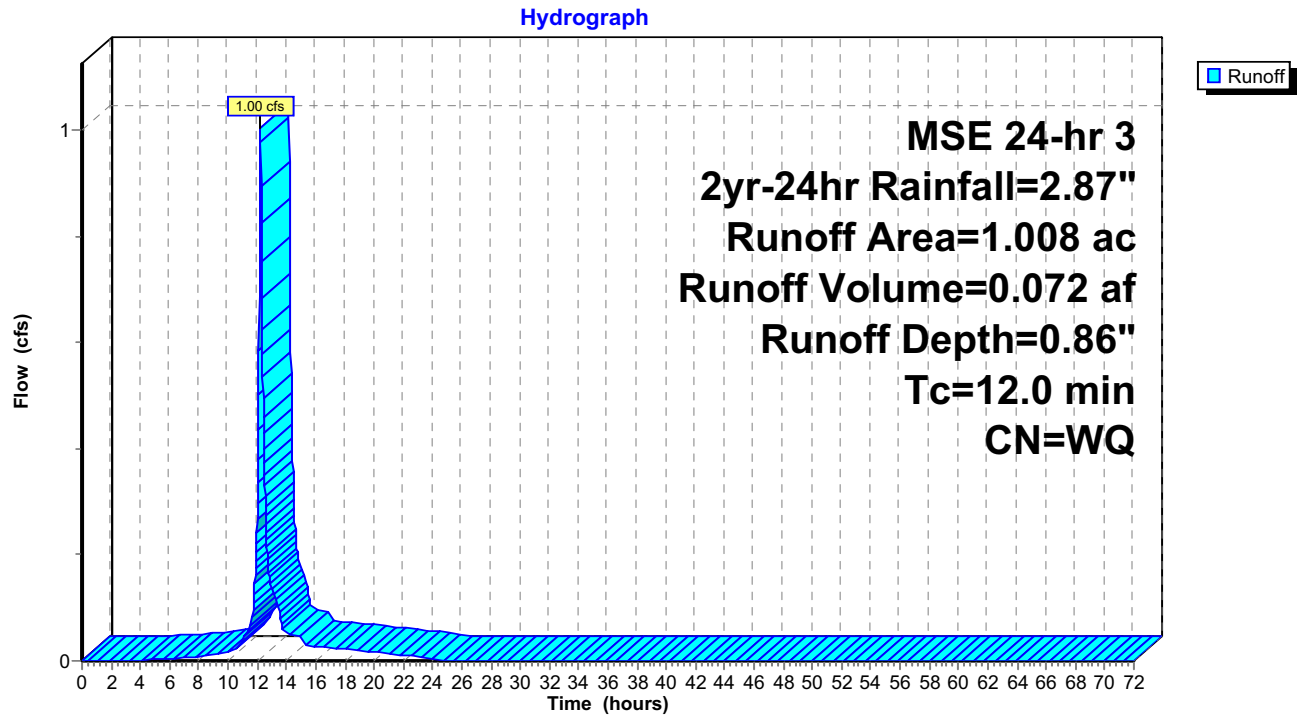
Runoff = 1.00 cfs @ 12.21 hrs, Volume= 0.072 af, Depth= 0.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.197	98	Impervious
	0.640	61	>75% Grass cover, Good, HSG B
	0.171	74	>75% Grass cover, Good, HSG C
	1.008		Weighted Average
	0.811		80.46% Pervious Area
	0.197		19.54% Impervious Area

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

Subcatchment H6: H6



Summary for Subcatchment H7: H7

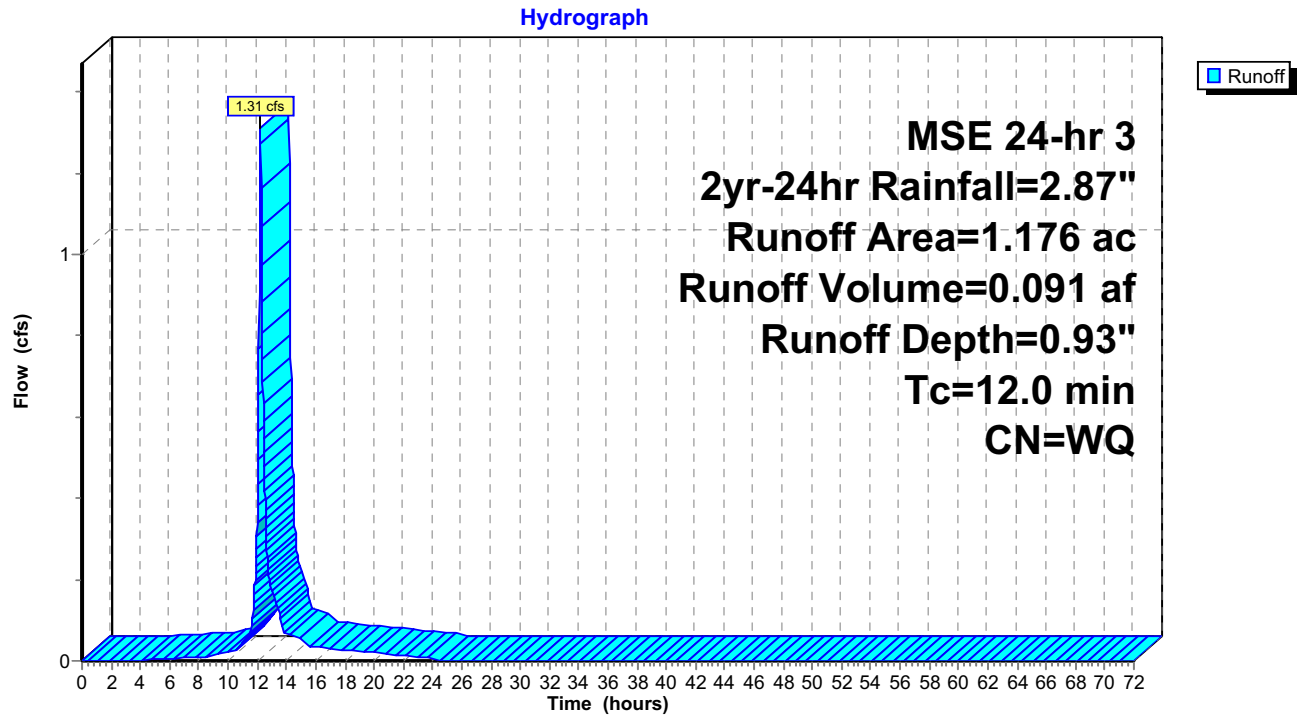
Runoff = 1.31 cfs @ 12.21 hrs, Volume= 0.091 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.231	98	Impervious
	0.591	61	>75% Grass cover, Good, HSG B
	0.354	74	>75% Grass cover, Good, HSG C
	1.176		Weighted Average
	0.945		80.36% Pervious Area
	0.231		19.64% Impervious Area

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

Subcatchment H7: H7



Summary for Subcatchment I7: I7

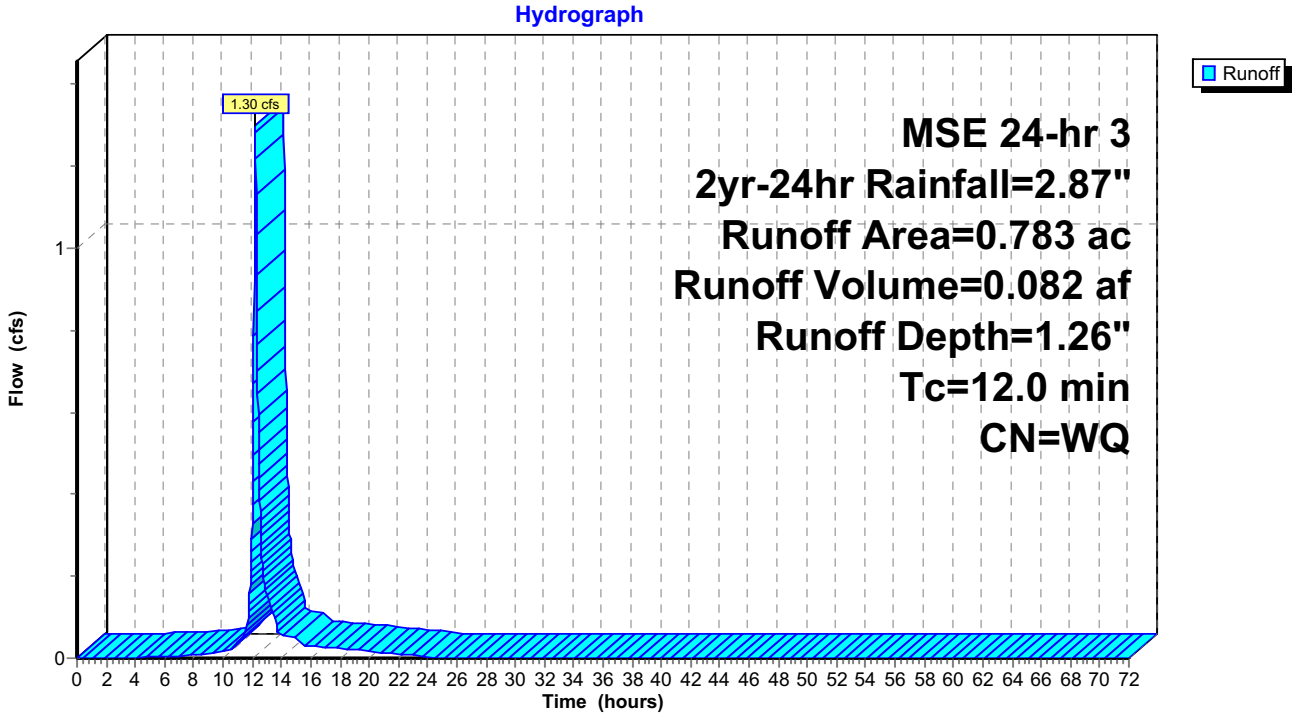
Runoff = 1.30 cfs @ 12.20 hrs, Volume= 0.082 af, Depth= 1.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.188	98	Impervious
	0.595	74	>75% Grass cover, Good, HSG C
	0.783		Weighted Average
	0.595		75.99% Pervious Area
	0.188		24.01% Impervious Area

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

Subcatchment I7: I7



Summary for Subcatchment I7_100: I7_100

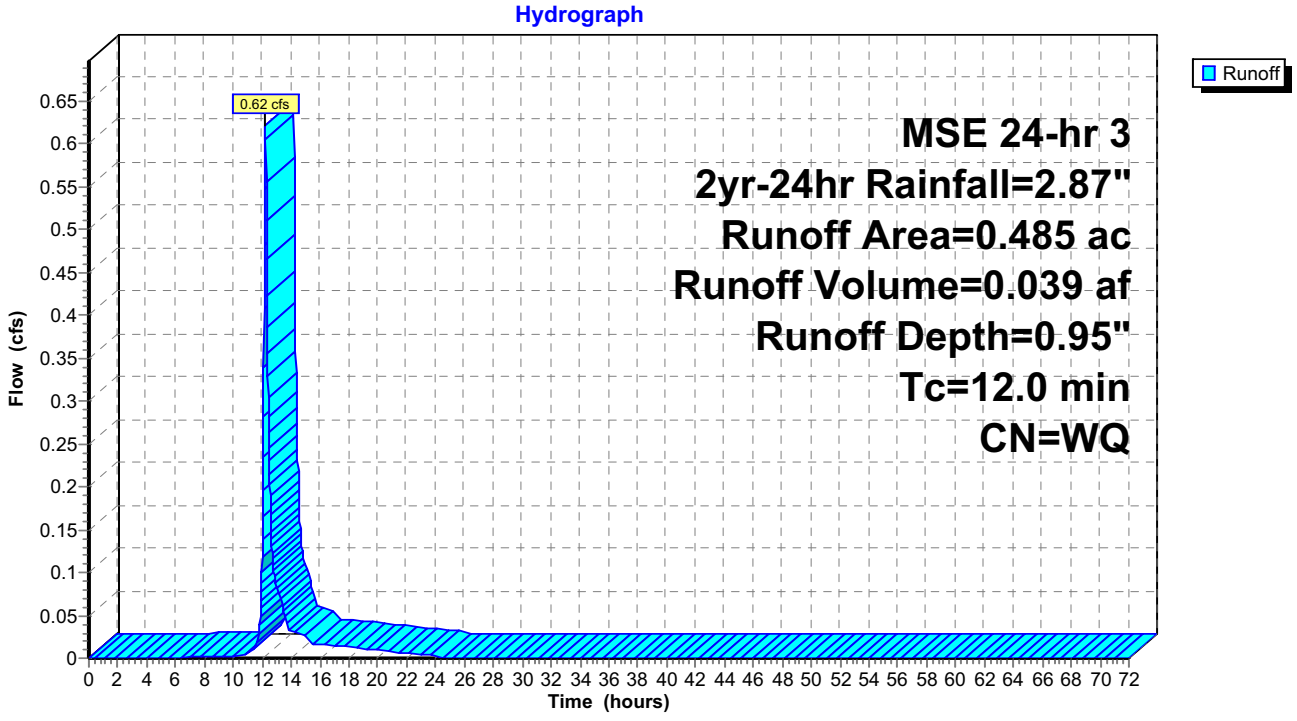
Runoff = 0.62 cfs @ 12.21 hrs, Volume= 0.039 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.451	74	>75% Grass cover, Good, HSG C
*	0.034	98	Impervious
	0.485		Weighted Average
	0.451		92.99% Pervious Area
	0.034		7.01% Impervious Area

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

Subcatchment I7_100: I7_100



Summary for Subcatchment I8: I8

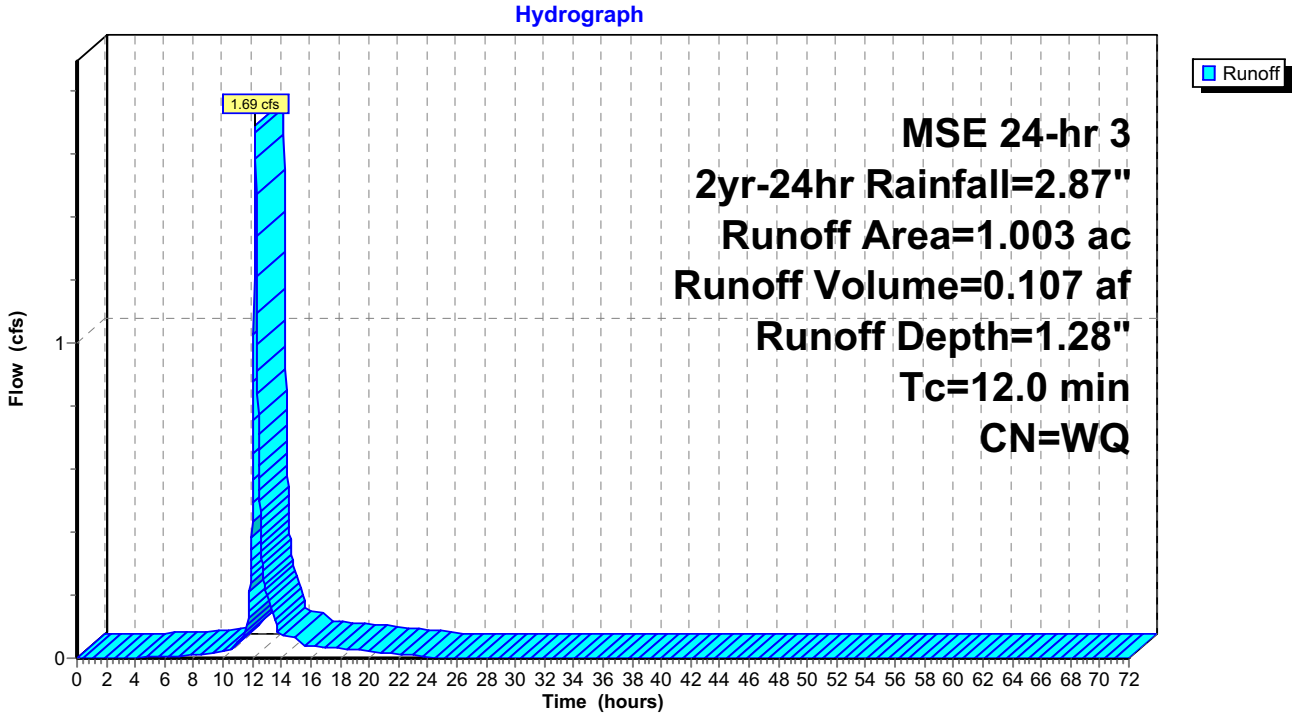
Runoff = 1.69 cfs @ 12.20 hrs, Volume= 0.107 af, Depth= 1.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.252	98	Impervious
	0.751	74	>75% Grass cover, Good, HSG C
	1.003		Weighted Average
	0.751		74.88% Pervious Area
	0.252		25.12% Impervious Area

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

Subcatchment I8: I8



Summary for Subcatchment I8_100: I8_100

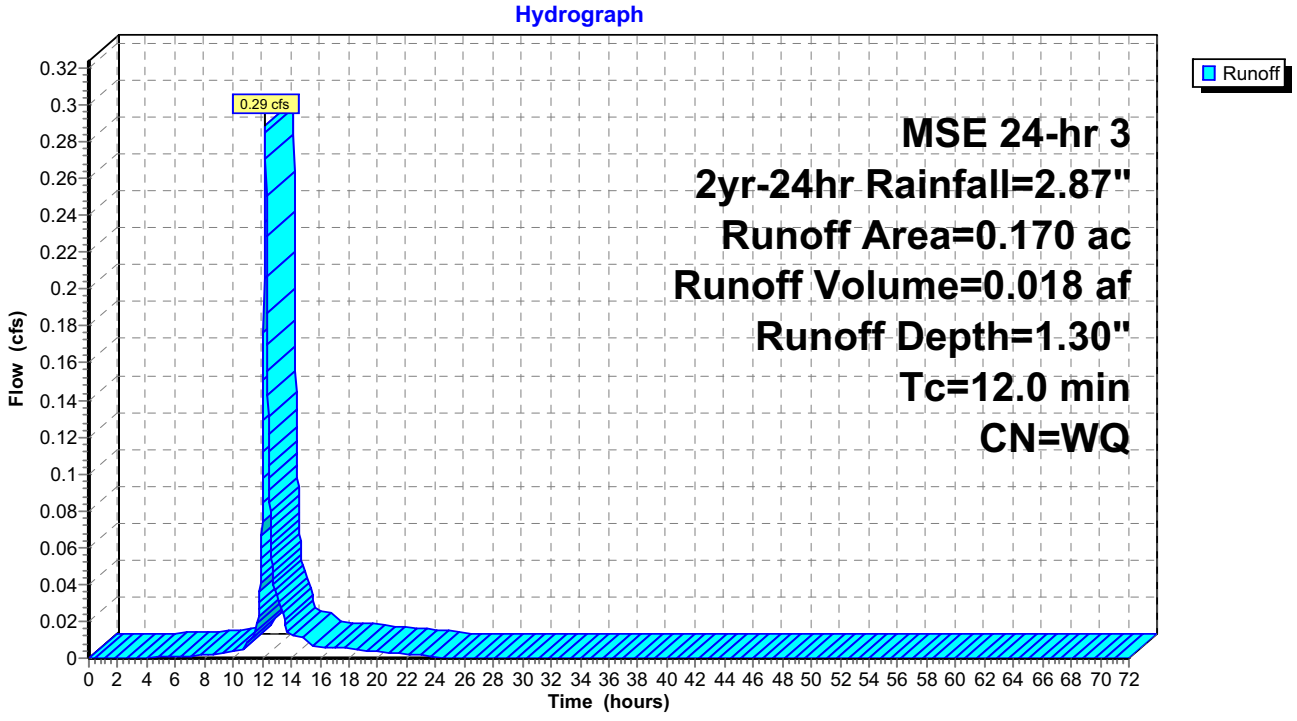
Runoff = 0.29 cfs @ 12.20 hrs, Volume= 0.018 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.126	74	>75% Grass cover, Good, HSG C
*	0.044	98	Impervious
	0.170		Weighted Average
	0.126		74.12% Pervious Area
	0.044		25.88% Impervious Area

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

Subcatchment I8_100: I8_100



Summary for Subcatchment I9: I9

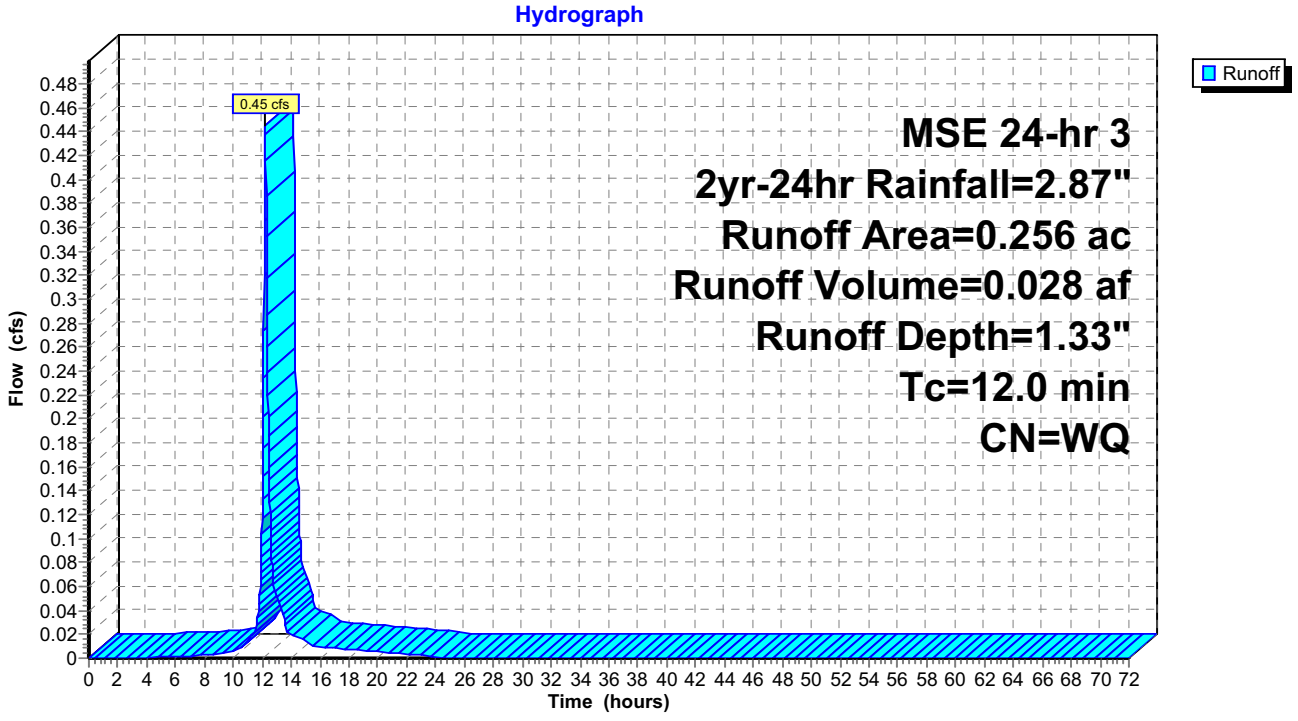
Runoff = 0.45 cfs @ 12.20 hrs, Volume= 0.028 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.071	98	Impervious
	0.185	74	>75% Grass cover, Good, HSG C
	0.256		Weighted Average
	0.185		72.27% Pervious Area
	0.071		27.73% Impervious Area

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

Subcatchment I9: I9



Summary for Subcatchment J3: J3

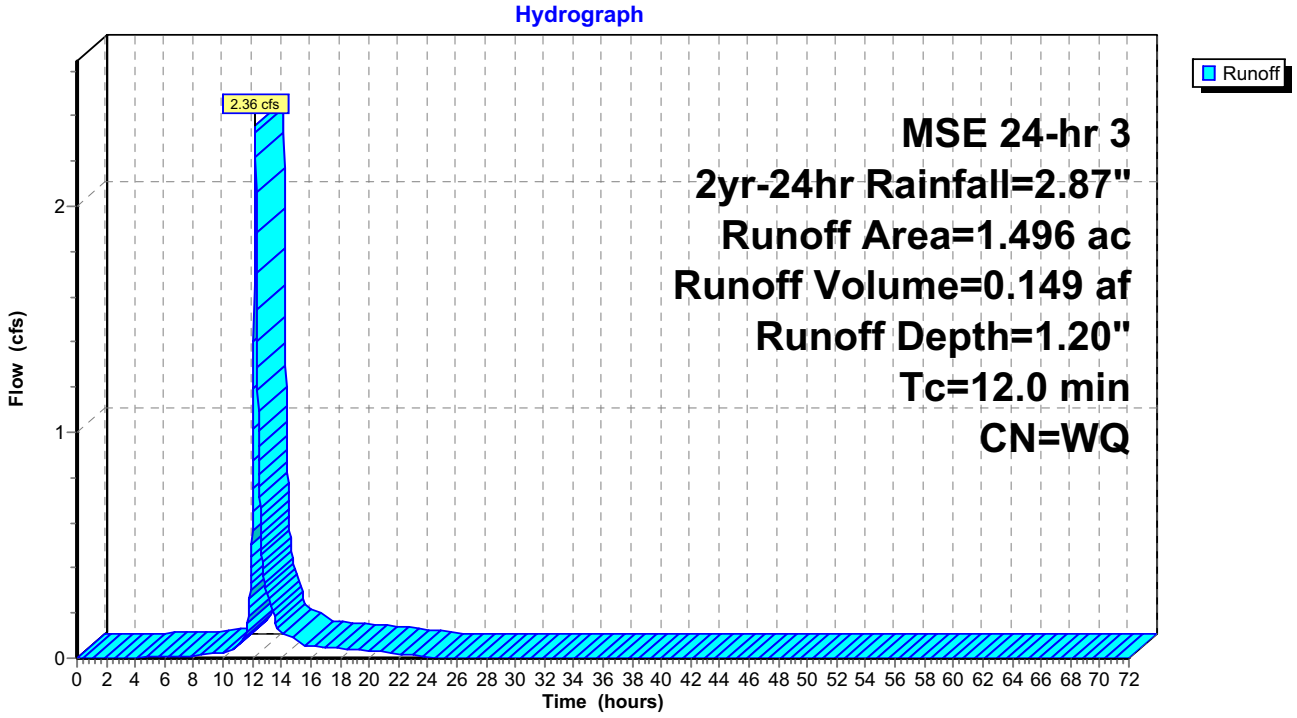
Runoff = 2.36 cfs @ 12.20 hrs, Volume= 0.149 af, Depth= 1.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.304	98	Impervious
	1.192	74	>75% Grass cover, Good, HSG C
	1.496		Weighted Average
	1.192		79.68% Pervious Area
	0.304		20.32% Impervious Area

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

Subcatchment J3: J3



Summary for Subcatchment J4: J4

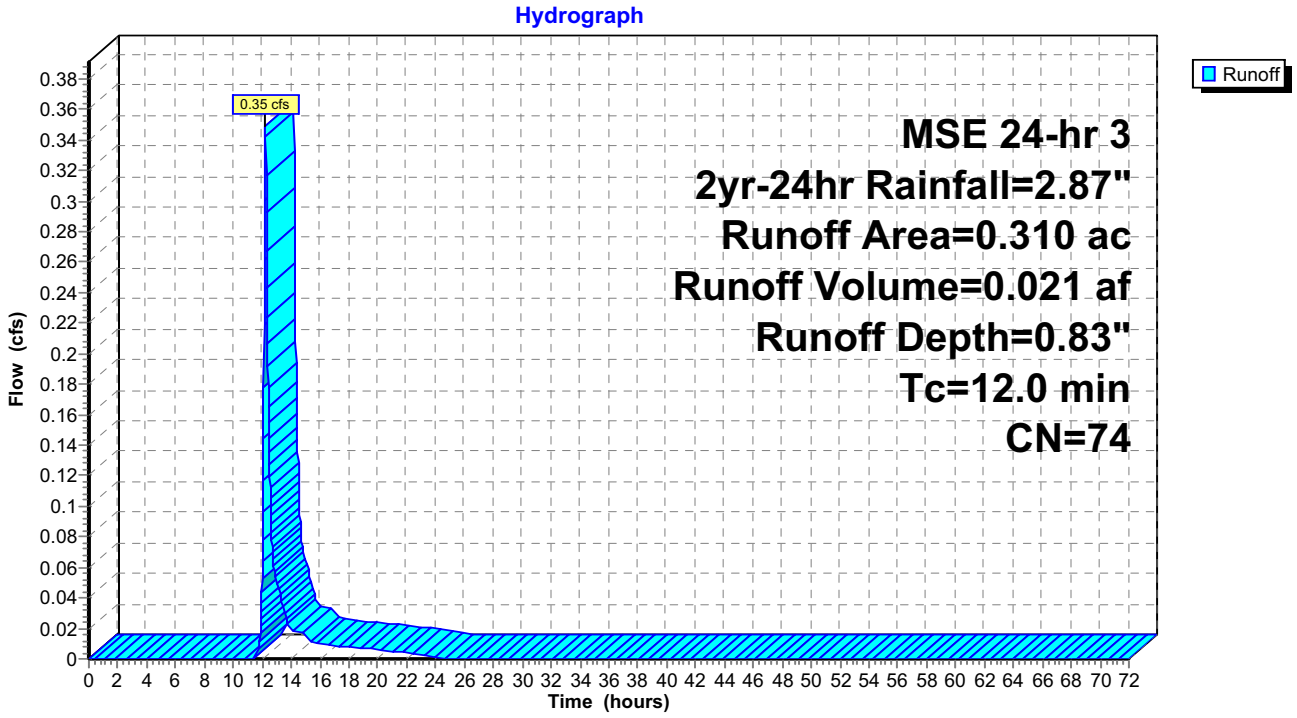
Runoff = 0.35 cfs @ 12.21 hrs, Volume= 0.021 af, Depth= 0.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

Area (ac)	CN	Description
0.310	74	>75% Grass cover, Good, HSG C
0.310		100.00% Pervious Area

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

Subcatchment J4: J4



Summary for Subcatchment J5: J5

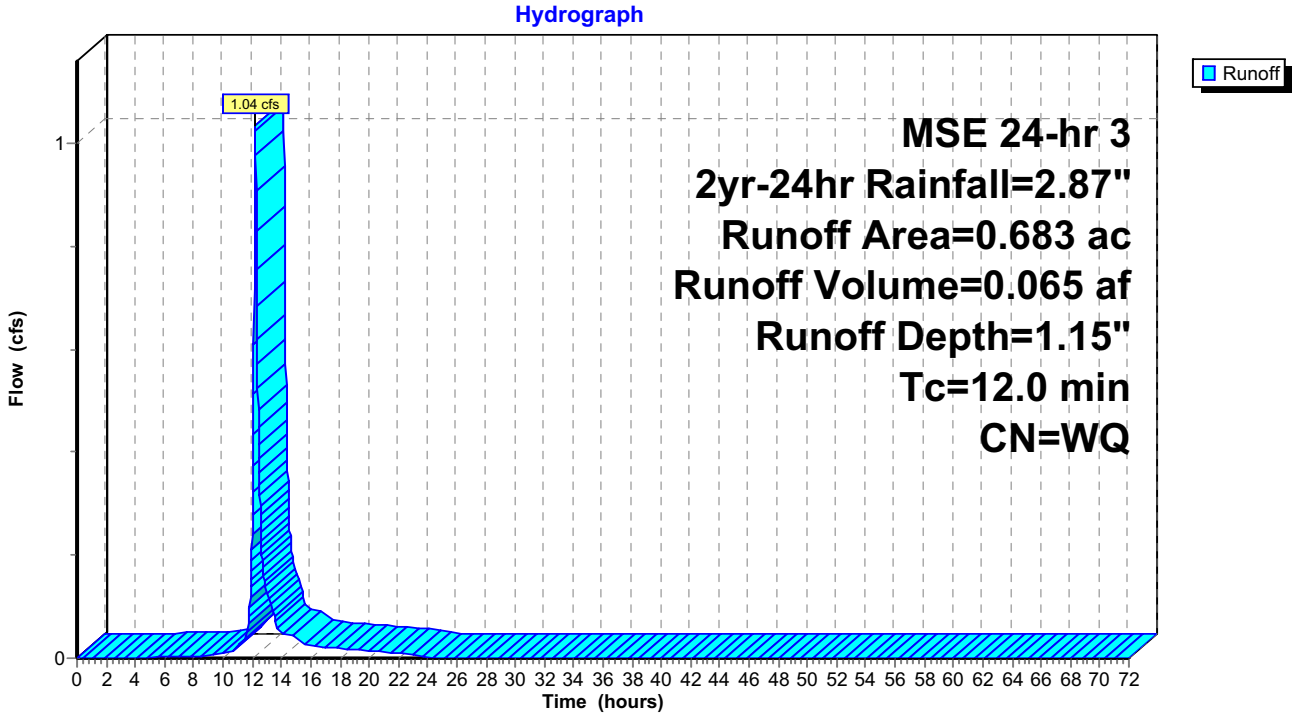
Runoff = 1.04 cfs @ 12.20 hrs, Volume= 0.065 af, Depth= 1.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.121	98	Impervious
	0.562	74	>75% Grass cover, Good, HSG C
	0.683		Weighted Average
	0.562		82.28% Pervious Area
	0.121		17.72% Impervious Area

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

Subcatchment J5: J5



Summary for Subcatchment L10: L10

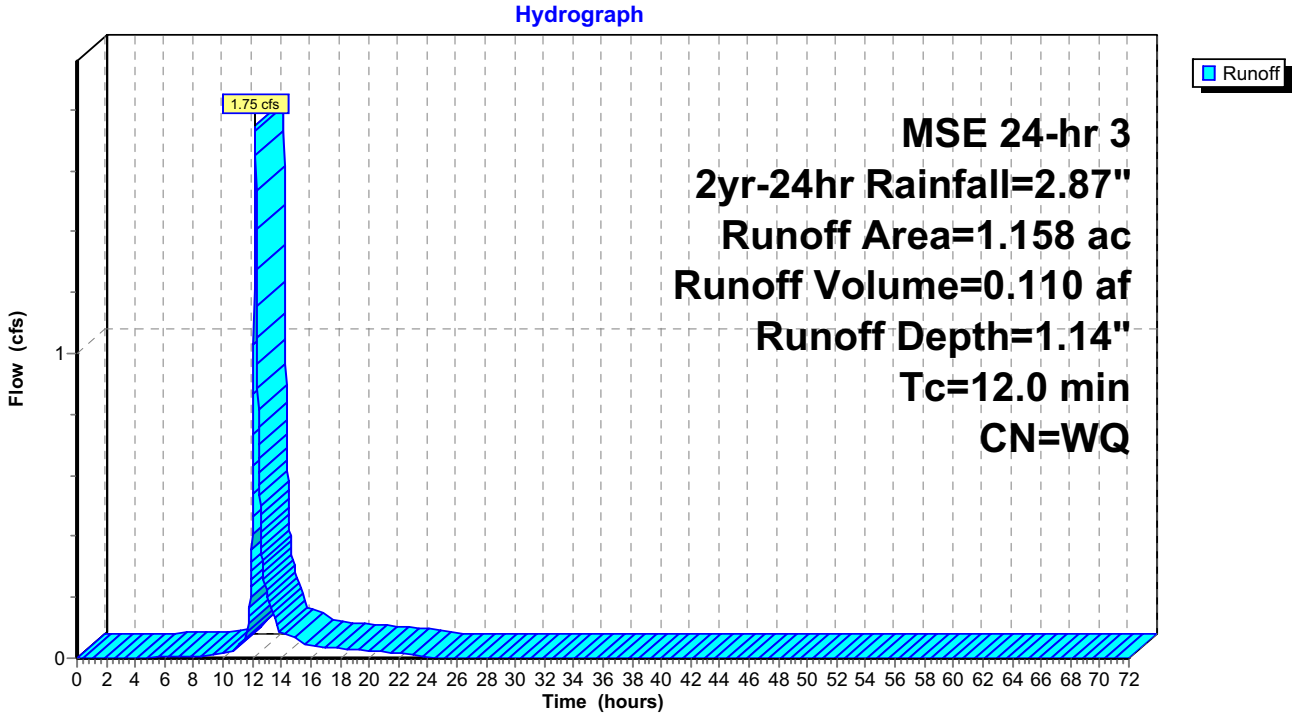
Runoff = 1.75 cfs @ 12.20 hrs, Volume= 0.110 af, Depth= 1.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.203	98	Impervious
	0.955	74	>75% Grass cover, Good, HSG C
	1.158		Weighted Average
	0.955		82.47% Pervious Area
	0.203		17.53% Impervious Area

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

Subcatchment L10: L10



Summary for Subcatchment L4: L4

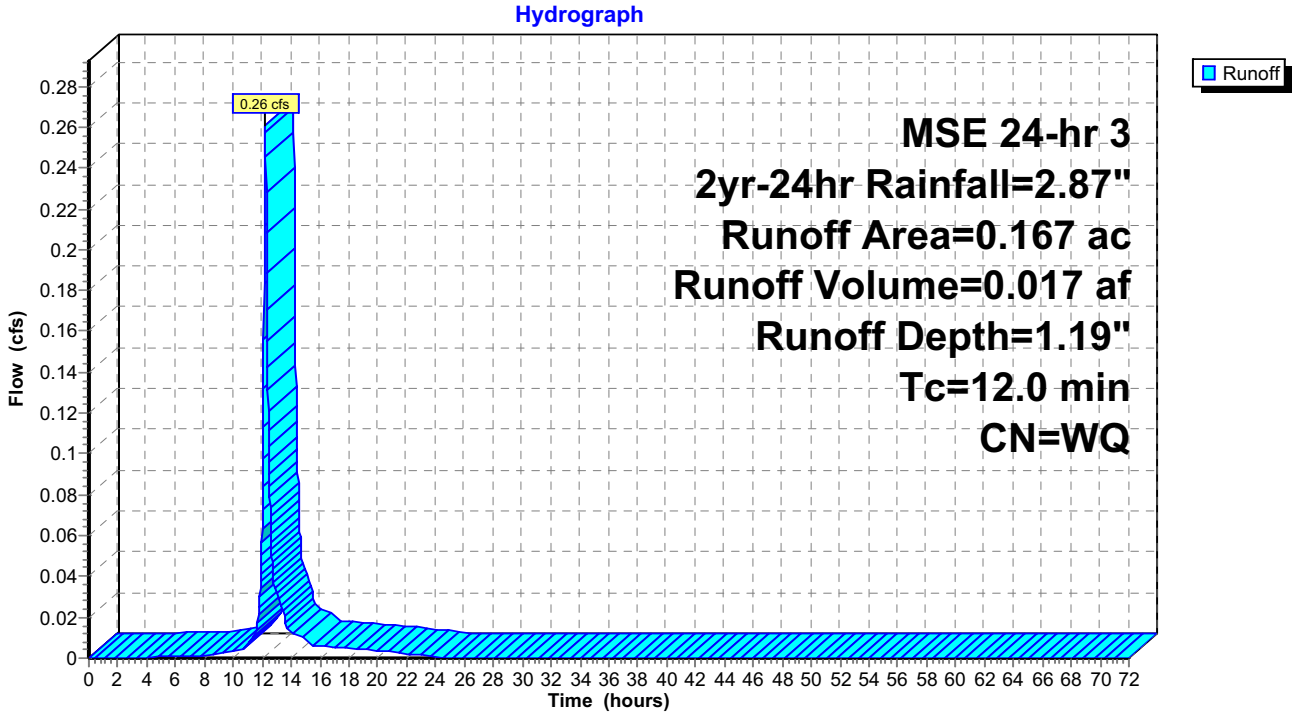
Runoff = 0.26 cfs @ 12.20 hrs, Volume= 0.017 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.002	98	Impervious
	0.005	61	>75% Grass cover, Good, HSG B
	0.127	74	>75% Grass cover, Good, HSG C
*	0.033	98	Impervious
	0.167		Weighted Average
	0.132		79.04% Pervious Area
	0.035		20.96% Impervious Area

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

Subcatchment L4: L4



Summary for Subcatchment L5: L5

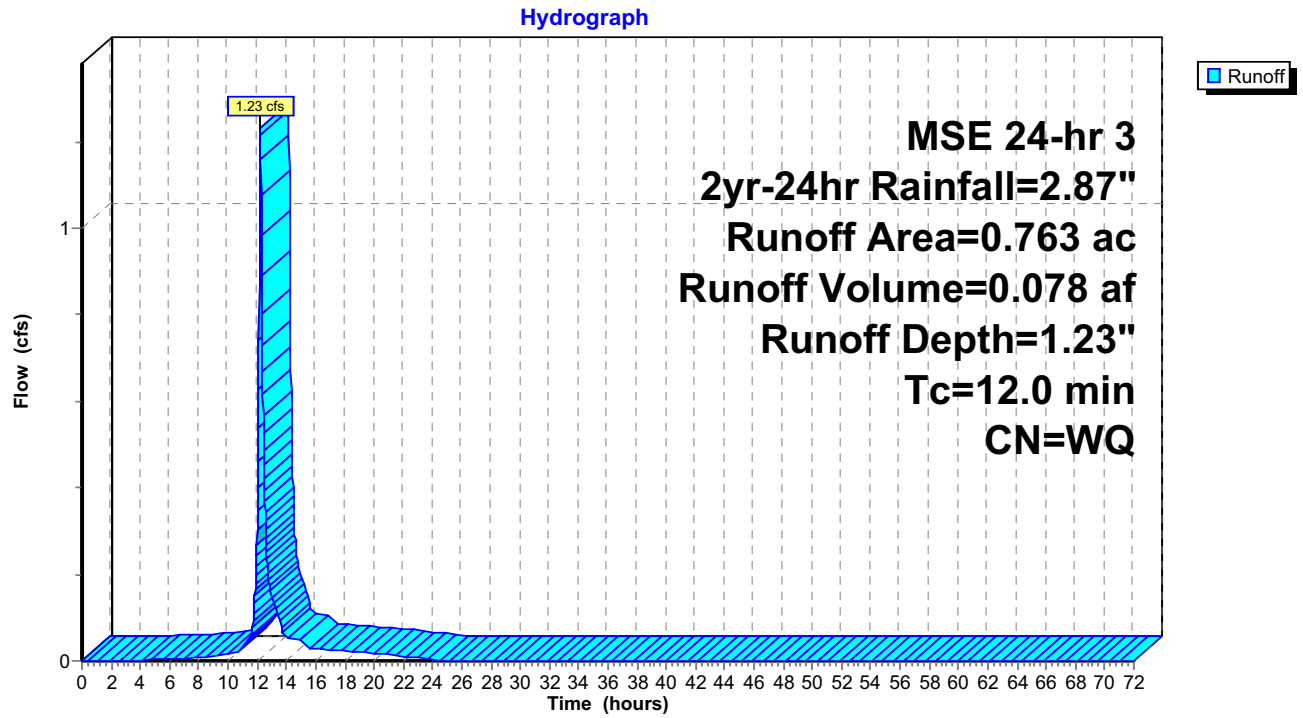
Runoff = 1.23 cfs @ 12.20 hrs, Volume= 0.078 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.101	98	Impervious
	0.595	74	>75% Grass cover, Good, HSG C
*	0.067	98	Impervious
	0.763		Weighted Average
	0.595		77.98% Pervious Area
	0.168		22.02% Impervious Area

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

Subcatchment L5: L5



Summary for Subcatchment L6: L6

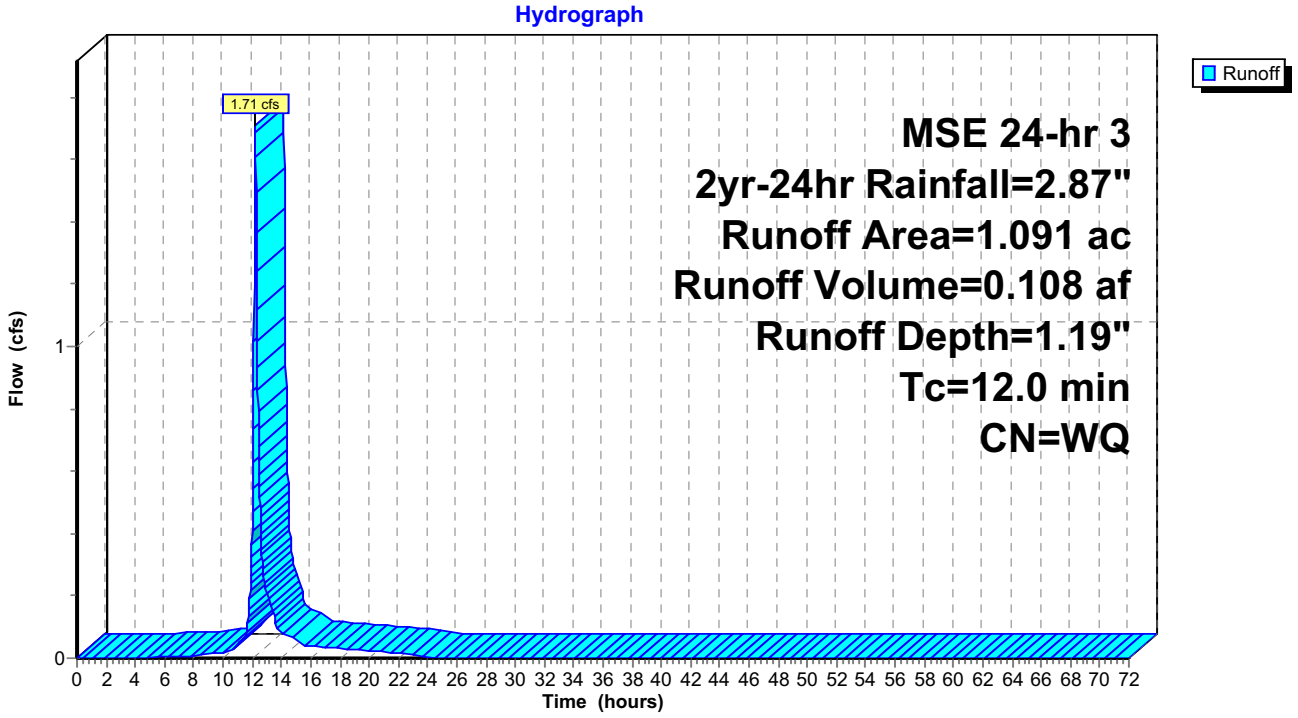
Runoff = 1.71 cfs @ 12.20 hrs, Volume= 0.108 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.218	98	Impervious
	0.873	74	>75% Grass cover, Good, HSG C
	1.091		Weighted Average
	0.873		80.02% Pervious Area
	0.218		19.98% Impervious Area

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

Subcatchment L6: L6



Summary for Subcatchment L7: L7

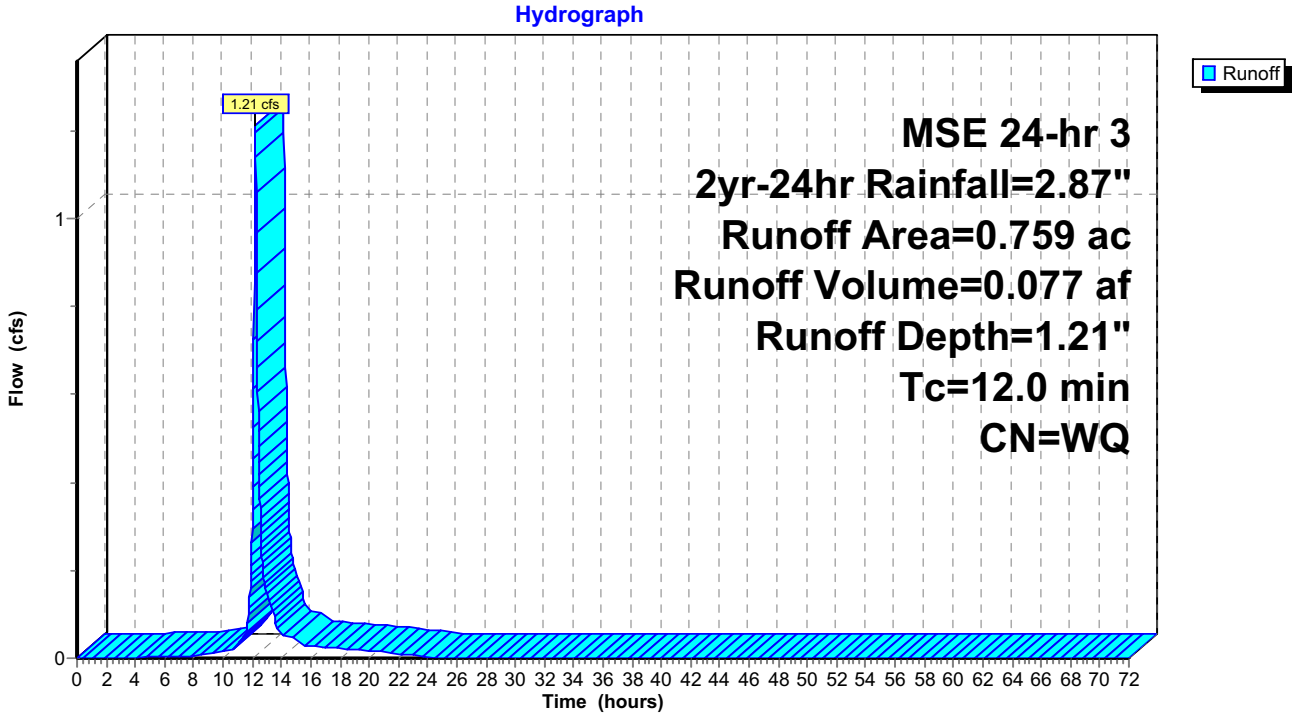
Runoff = 1.21 cfs @ 12.20 hrs, Volume= 0.077 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.161	98	Impervious
	0.598	74	>75% Grass cover, Good, HSG C
	0.759		Weighted Average
	0.598		78.79% Pervious Area
	0.161		21.21% Impervious Area

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

Subcatchment L7: L7



Summary for Subcatchment L8: L8

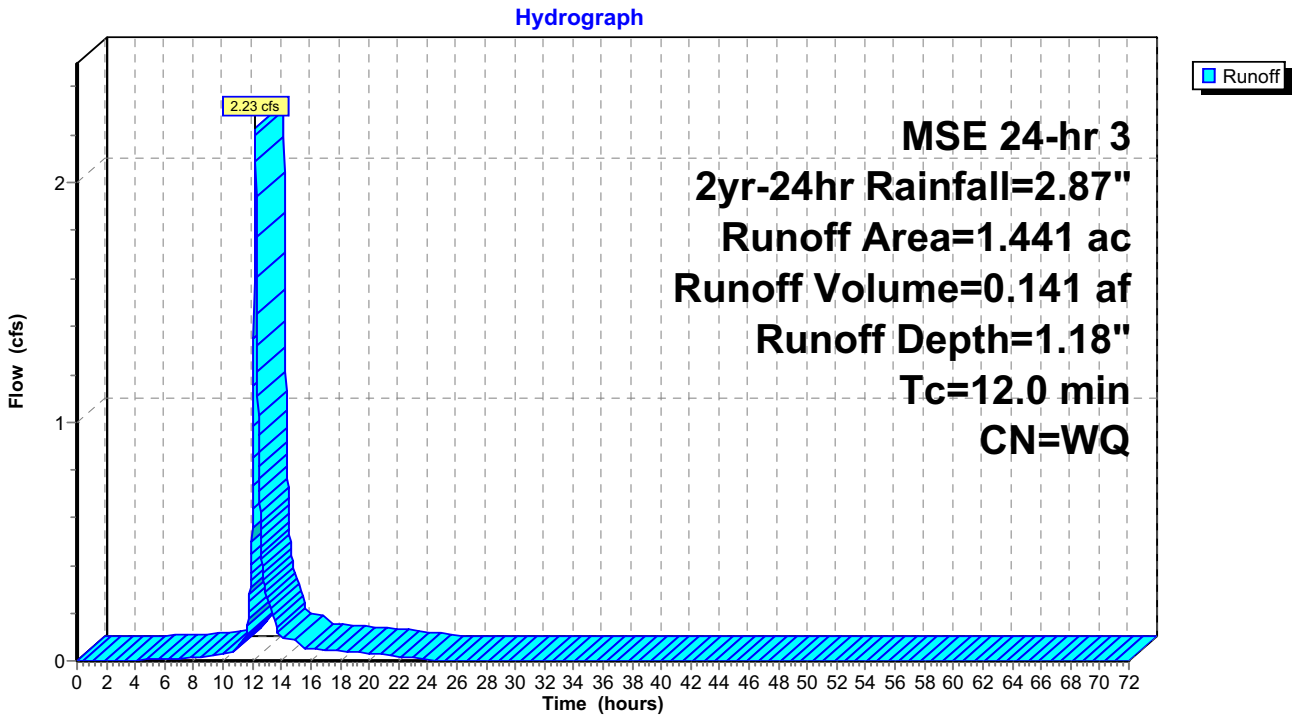
Runoff = 2.23 cfs @ 12.20 hrs, Volume= 0.141 af, Depth= 1.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.318	98	Impervious
	0.086	39	>75% Grass cover, Good, HSG A
	1.037	74	>75% Grass cover, Good, HSG C
	1.441		Weighted Average
	1.123		77.93% Pervious Area
	0.318		22.07% Impervious Area

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

Subcatchment L8: L8



Summary for Subcatchment L9: L9

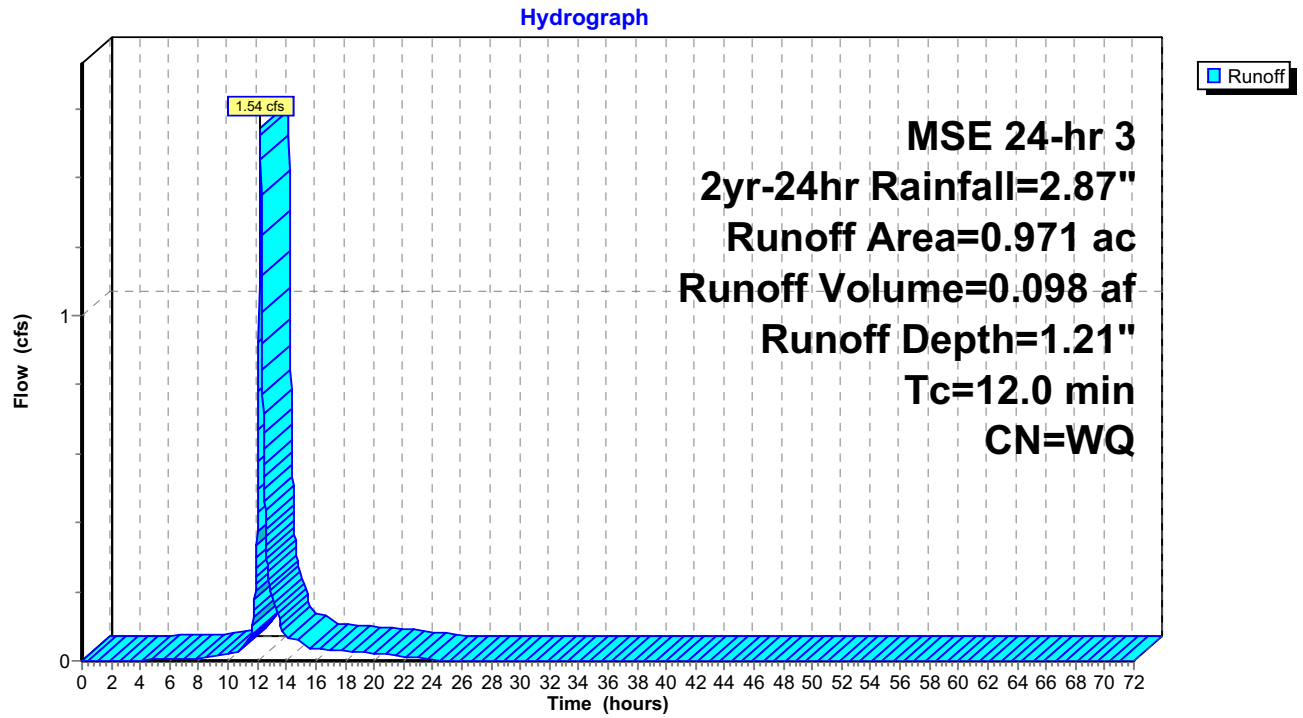
Runoff = 1.54 cfs @ 12.20 hrs, Volume= 0.098 af, Depth= 1.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.205	98	Impervious
	0.003	39	>75% Grass cover, Good, HSG A
	0.763	74	>75% Grass cover, Good, HSG C
	0.971		Weighted Average
	0.766		78.89% Pervious Area
	0.205		21.11% Impervious Area

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

Subcatchment L9: L9



Summary for Subcatchment O10: O10

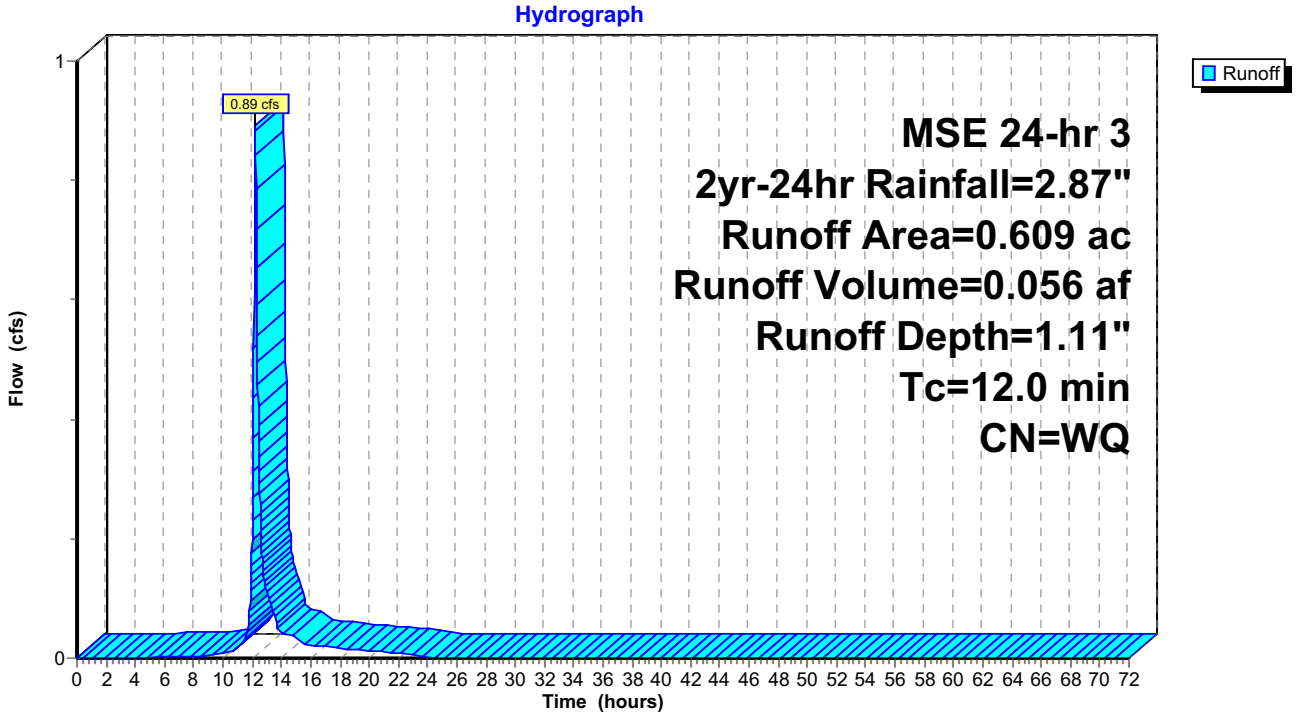
Runoff = 0.89 cfs @ 12.21 hrs, Volume= 0.056 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.094	98	Impervious
	0.515	74	>75% Grass cover, Good, HSG C
	0.609		Weighted Average
	0.515		84.56% Pervious Area
	0.094		15.44% Impervious Area

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

Subcatchment O10: O10



Summary for Subcatchment O8: O8

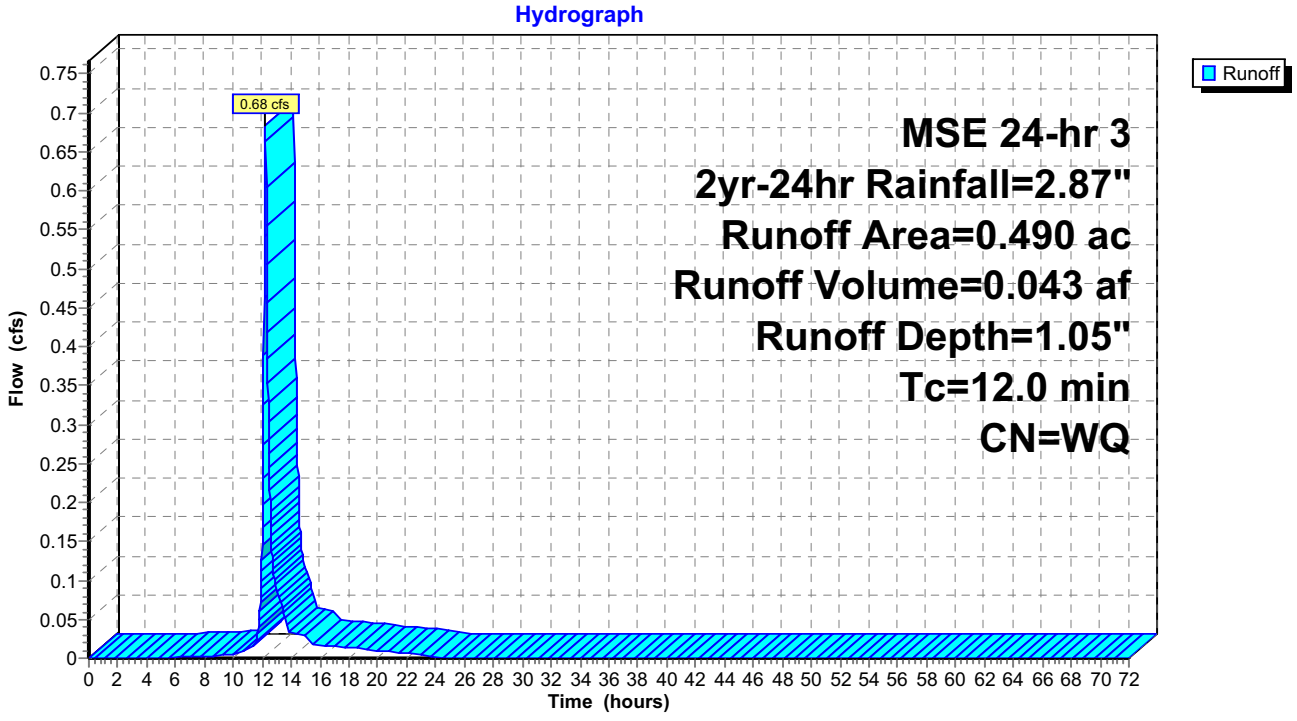
Runoff = 0.68 cfs @ 12.21 hrs, Volume= 0.043 af, Depth= 1.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.060	98	Impervious
	0.430	74	>75% Grass cover, Good, HSG C
	0.490		Weighted Average
	0.430		87.76% Pervious Area
	0.060		12.24% Impervious Area

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

Subcatchment O8: O8



Summary for Subcatchment O9: O9

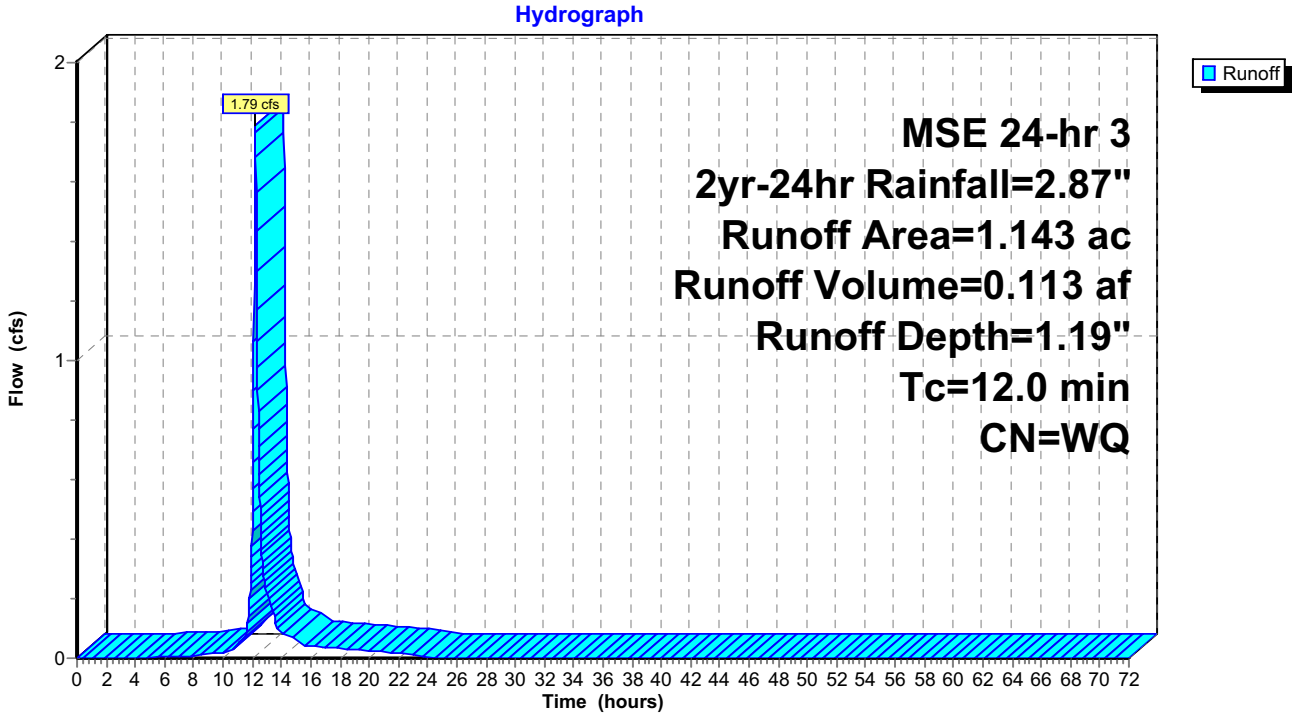
Runoff = 1.79 cfs @ 12.20 hrs, Volume= 0.113 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	0.227	98	Impervious
	0.916	74	>75% Grass cover, Good, HSG C
	1.143		Weighted Average
	0.916		80.14% Pervious Area
	0.227		19.86% Impervious Area

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

Subcatchment O9: O9



Summary for Subcatchment W6: W6

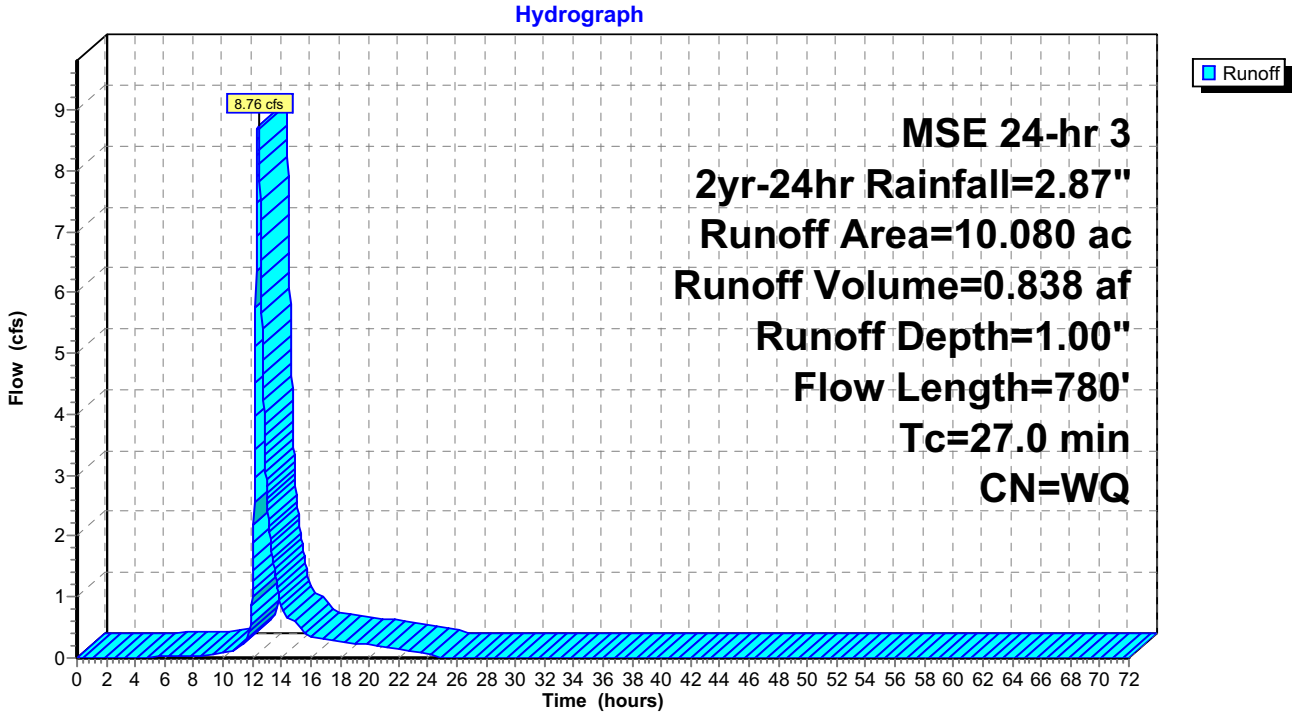
Runoff = 8.76 cfs @ 12.41 hrs, Volume= 0.838 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
*	1.008	98	Impervious
	6.933	74	>75% Grass cover, Good, HSG C
	2.139	73	Woods, Fair, HSG C
	10.080		Weighted Average
	9.072		90.00% Pervious Area
	1.008		10.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	300	0.0330	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
6.6	480	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
27.0	780	Total			

Subcatchment W6: W6



Summary for Subcatchment W6_100: W6_100

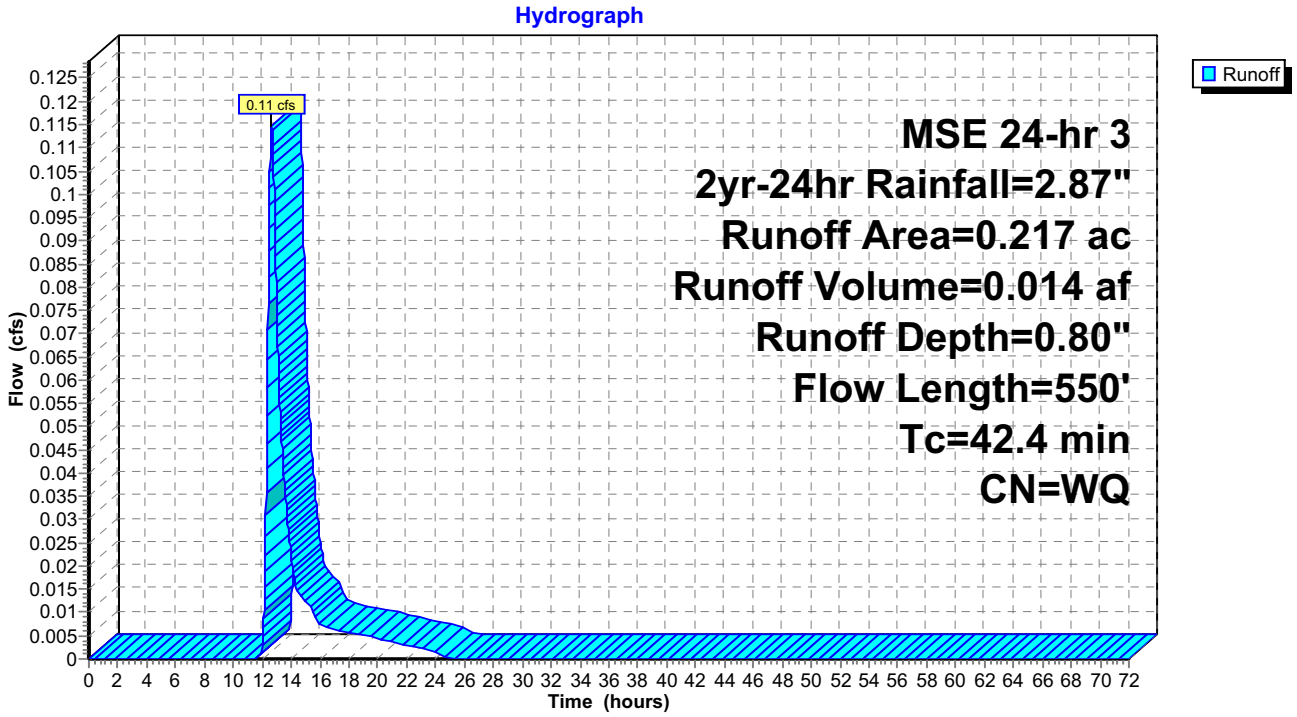
Runoff = 0.11 cfs @ 12.66 hrs, Volume= 0.014 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

Area (ac)	CN	Description
0.094	74	>75% Grass cover, Good, HSG C
0.123	73	Woods, Fair, HSG C
0.217		Weighted Average
0.217		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.8	300	0.0470	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.87"
3.6	250	0.0280	1.17		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
42.4	550	Total			

Subcatchment W6_100: W6_100



Summary for Subcatchment W6_101: W6_101

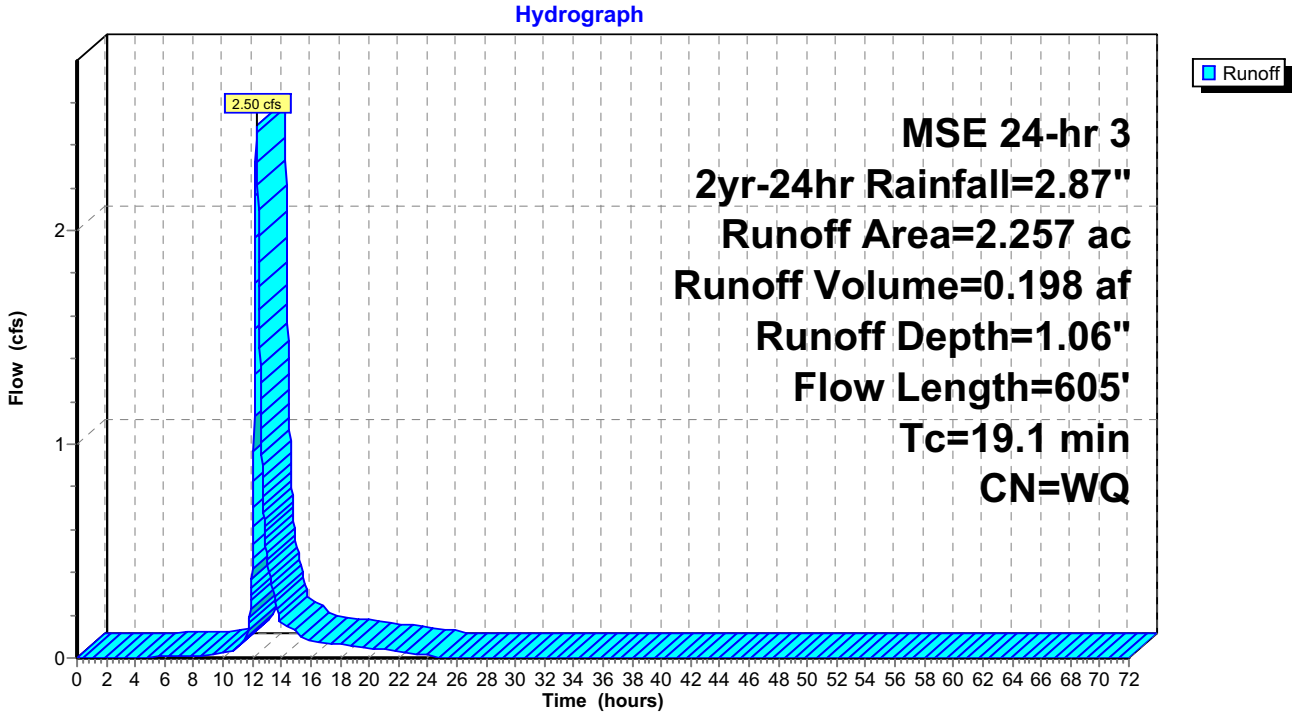
Runoff = 2.50 cfs @ 12.30 hrs, Volume= 0.198 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	1.497	74	>75% Grass cover, Good, HSG C
*	0.297	98	Impervious
	0.463	73	Woods, Fair, HSG C
	2.257		Weighted Average
	1.960		86.84% Pervious Area
	0.297		13.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	295	0.0680	0.33		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
4.0	310	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
19.1	605	Total			

Subcatchment W6_101: W6_101



Summary for Subcatchment W6_102: W6_102

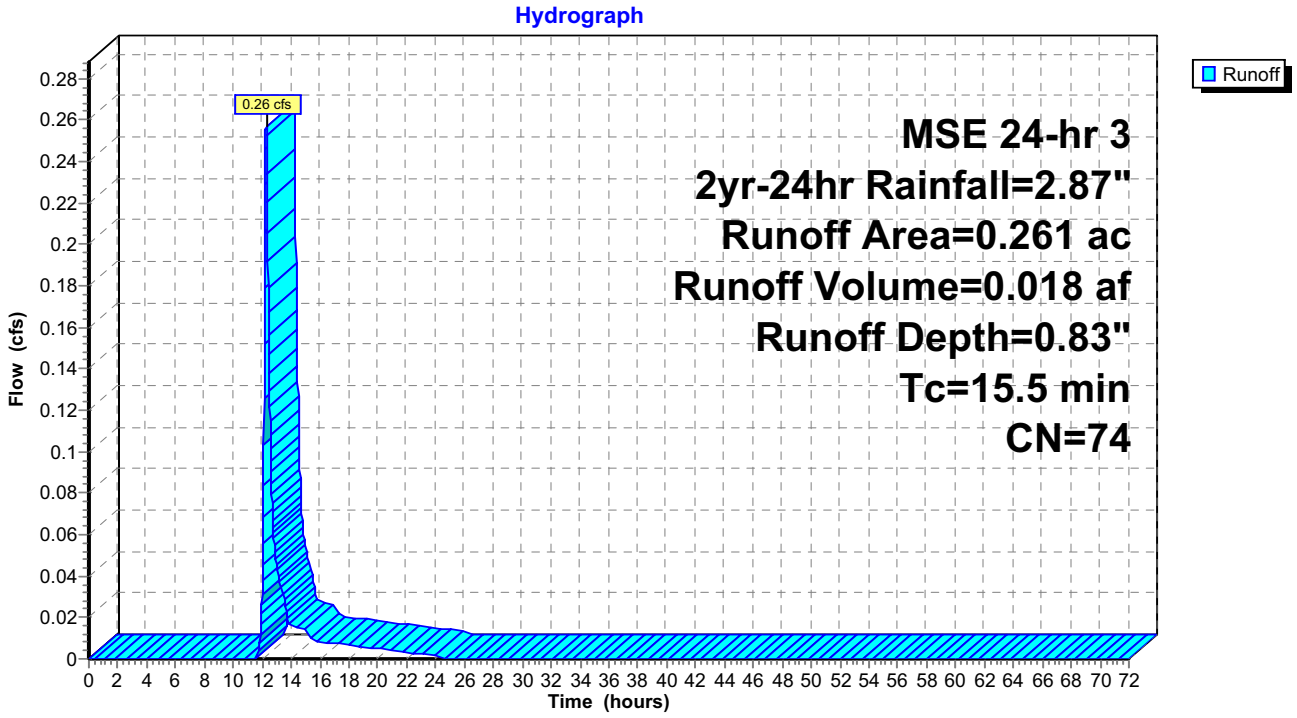
Runoff = 0.26 cfs @ 12.26 hrs, Volume= 0.018 af, Depth= 0.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

Area (ac)	CN	Description
0.261	74	>75% Grass cover, Good, HSG C
0.261		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5					**Direct Entry, From Existing Conditions (EX_5)**

Subcatchment W6_102: W6_102



Summary for Subcatchment W9: W9

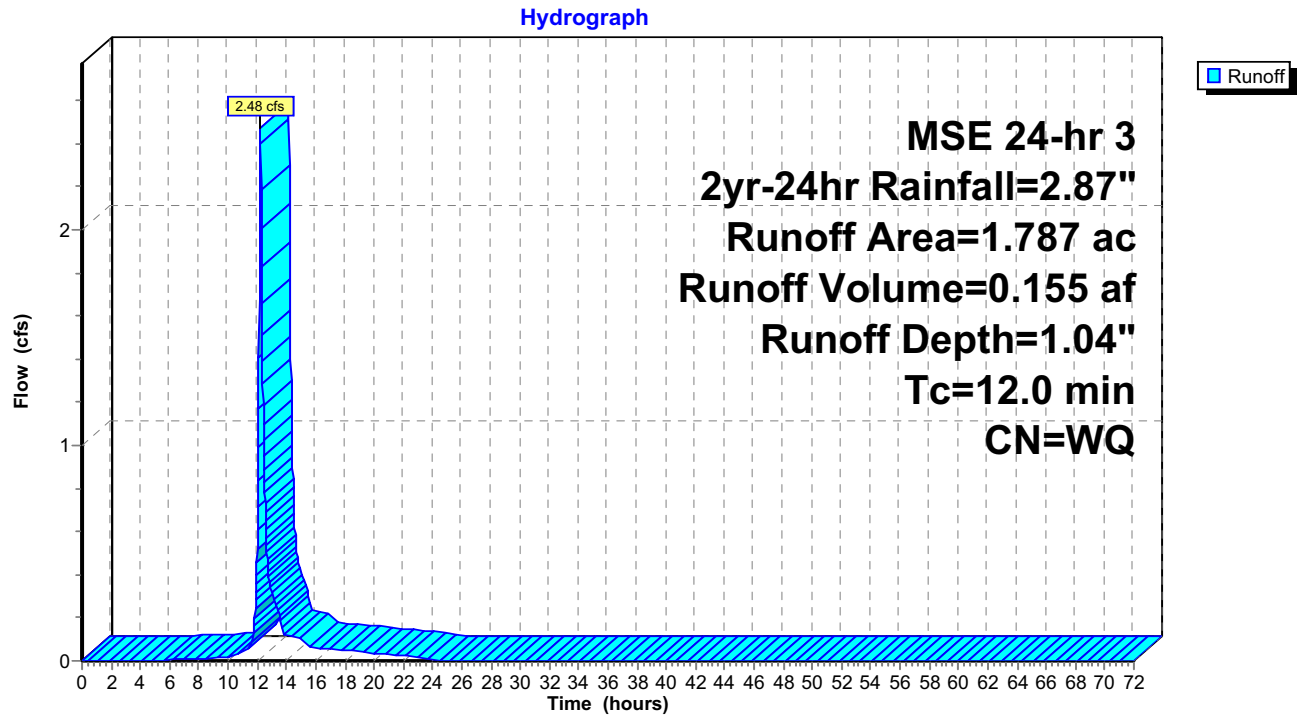
Runoff = 2.48 cfs @ 12.21 hrs, Volume= 0.155 af, Depth= 1.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	1.416	74	>75% Grass cover, Good, HSG C
*	0.217	98	Pond
	0.154	73	Woods, Fair, HSG C
	1.787		Weighted Average
	1.570		87.86% Pervious Area
	0.217		12.14% Impervious Area

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

Subcatchment W9: W9



Summary for Subcatchment W9_100: W9_100

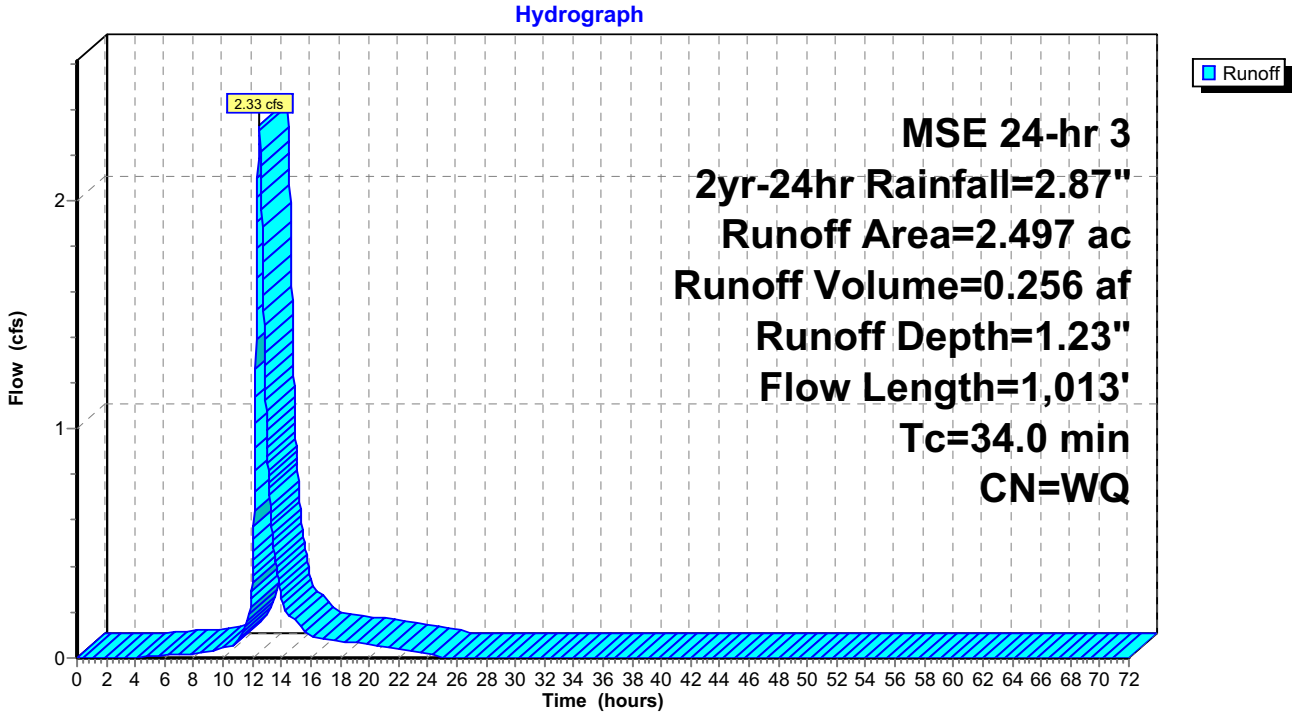
Runoff = 2.33 cfs @ 12.50 hrs, Volume= 0.256 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	1.912	74	>75% Grass cover, Good, HSG C
*	0.557	98	Impervious
	0.028	73	Woods, Fair, HSG C
	2.497		Weighted Average
	1.940		77.69% Pervious Area
	0.557		22.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.2	223	0.0450	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
19.8	790	0.0090	0.66		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
34.0	1,013	Total			

Subcatchment W9_100: W9_100



Summary for Subcatchment W9_101: W9_101

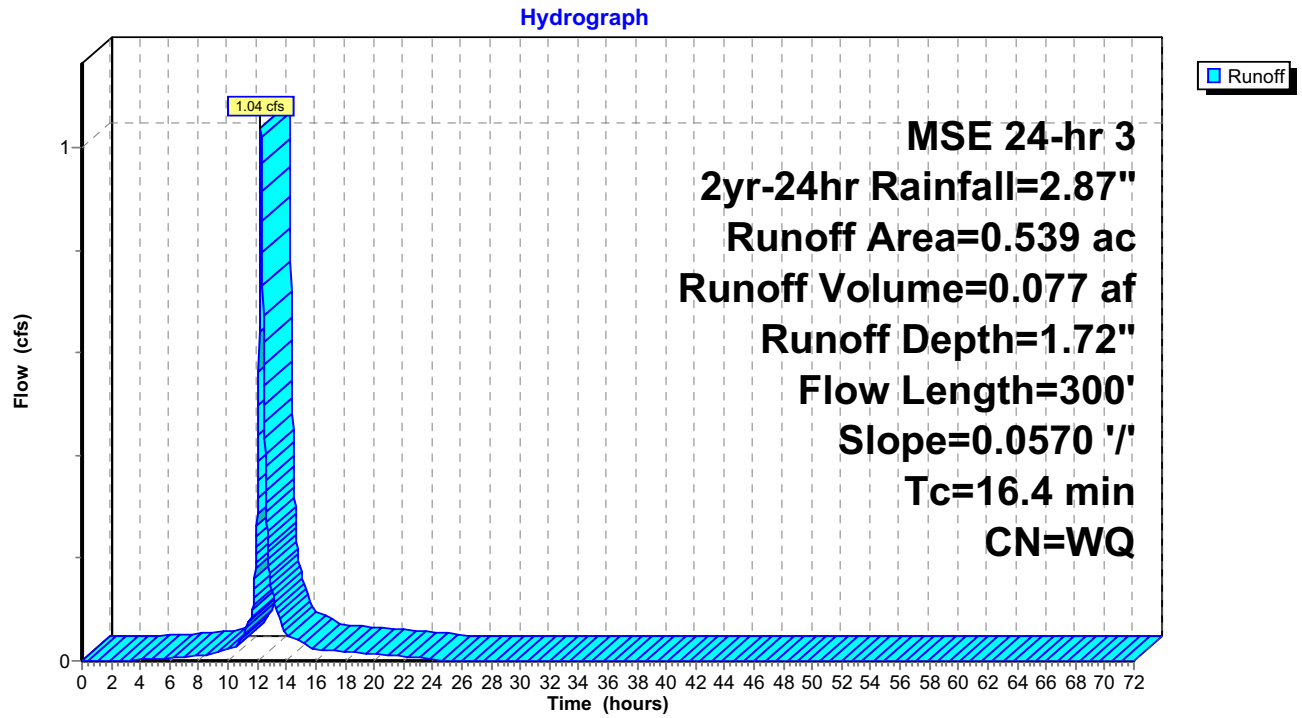
Runoff = 1.04 cfs @ 12.25 hrs, Volume= 0.077 af, Depth= 1.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 2yr-24hr Rainfall=2.87"

	Area (ac)	CN	Description
	0.274	74	>75% Grass cover, Good, HSG C
*	0.265	98	Impervious
	0.539		Weighted Average
	0.274		50.83% Pervious Area
	0.265		49.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	300	0.0570	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment W9_101: W9_101



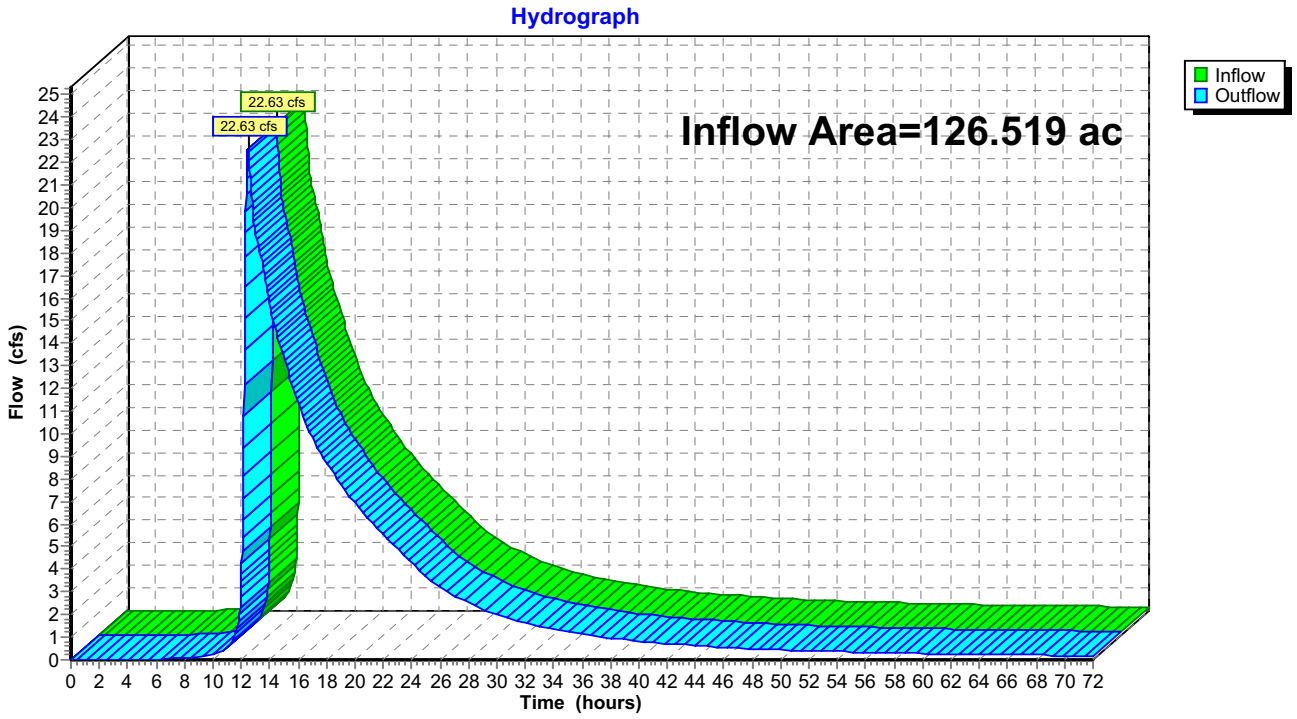
Summary for Reach 1R: Bassett Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 126.519 ac, 32.01% Impervious, Inflow Depth > 1.29" for 2yr-24hr event
Inflow = 22.63 cfs @ 12.47 hrs, Volume= 13.568 af
Outflow = 22.63 cfs @ 12.47 hrs, Volume= 13.568 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 1R: Bassett Creek Watershed



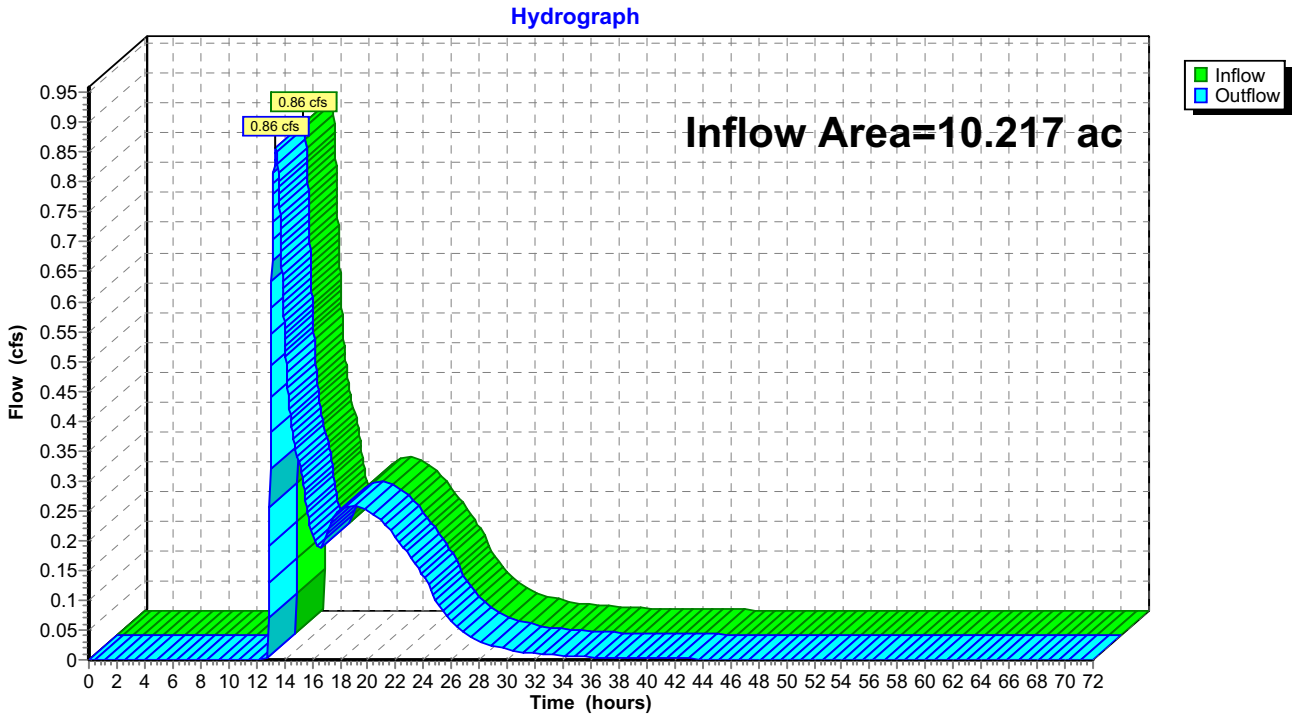
Summary for Reach 5R: Elm Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.217 ac, 25.83% Impervious, Inflow Depth > 0.35" for 2yr-24hr event
Inflow = 0.86 cfs @ 13.40 hrs, Volume= 0.297 af
Outflow = 0.86 cfs @ 13.40 hrs, Volume= 0.297 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 5R: Elm Creek Watershed



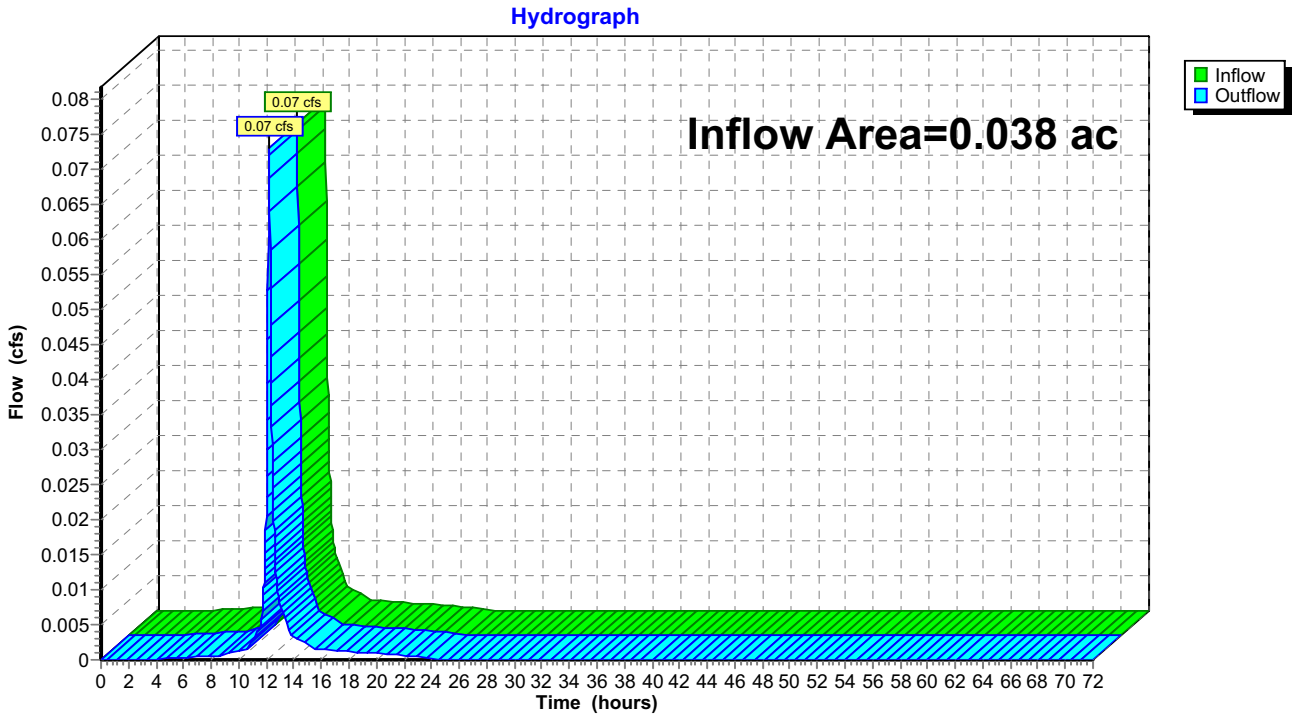
Summary for Reach 8R: Offsite

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.038 ac, 36.84% Impervious, Inflow Depth = 1.49" for 2yr-24hr event
Inflow = 0.07 cfs @ 12.20 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.20 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 8R: Offsite



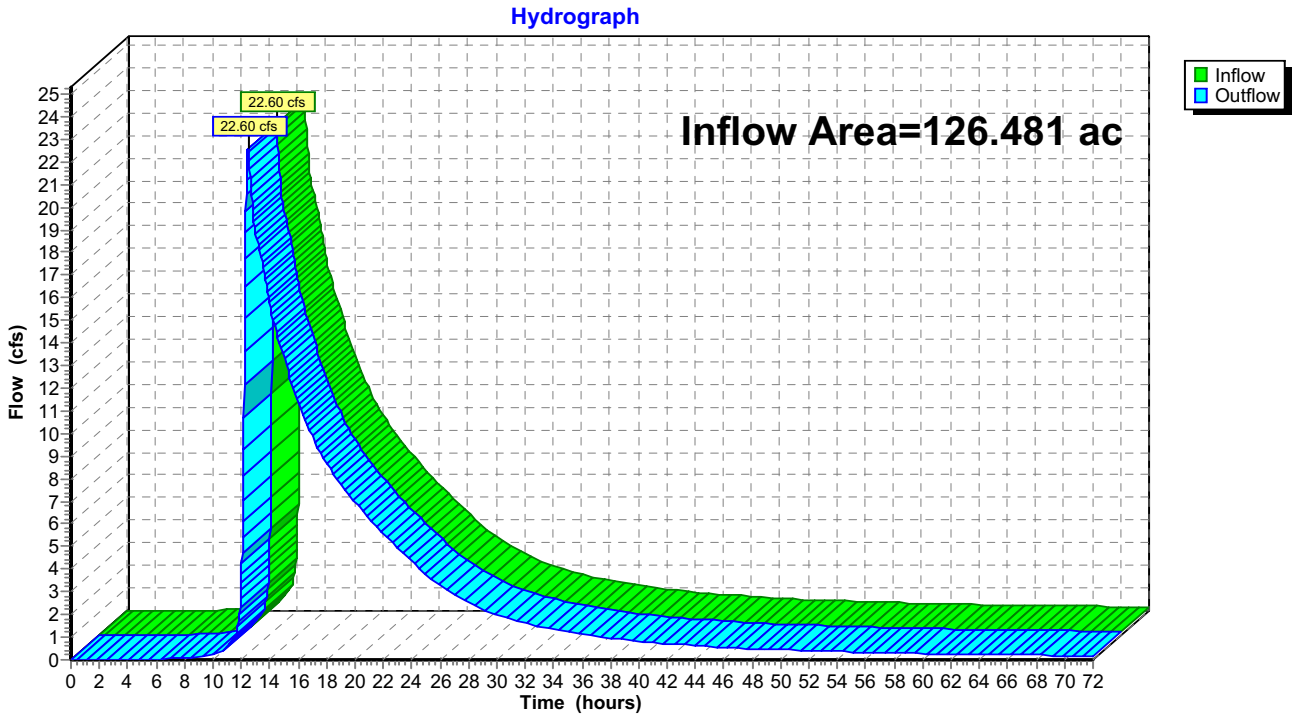
Summary for Reach Wetland: Wetland 6

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 126.481 ac, 32.01% Impervious, Inflow Depth > 1.29" for 2yr-24hr event
Inflow = 22.60 cfs @ 12.47 hrs, Volume= 13.563 af
Outflow = 22.60 cfs @ 12.47 hrs, Volume= 13.563 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach Wetland: Wetland 6



Summary for Pond 4P: CB_22 pipe

[57] Hint: Peaked at 970.71' (Flood elevation advised)

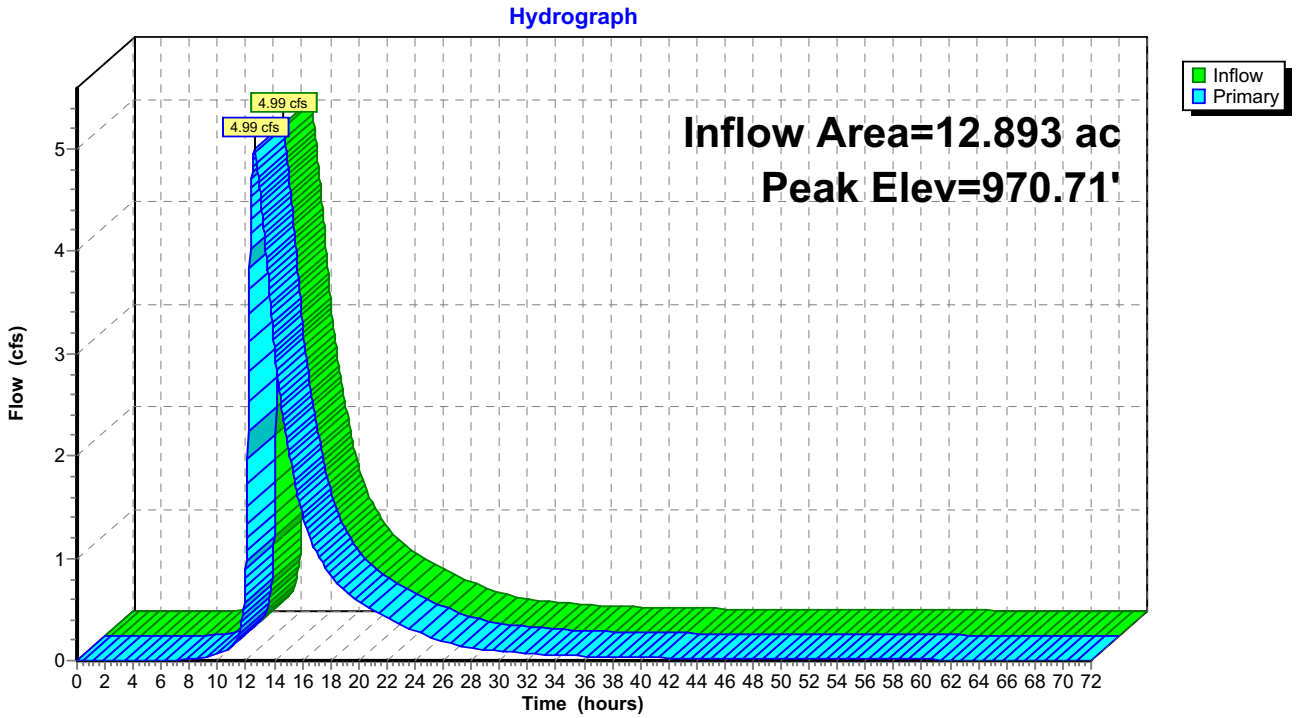
Inflow Area = 12.893 ac, 39.76% Impervious, Inflow Depth > 1.52" for 2yr-24hr event
Inflow = 4.99 cfs @ 12.61 hrs, Volume= 1.634 af
Outflow = 4.99 cfs @ 12.61 hrs, Volume= 1.634 af, Atten= 0%, Lag= 0.0 min
Primary = 4.99 cfs @ 12.61 hrs, Volume= 1.634 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 970.71' @ 12.61 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	969.20'	**24.0" Round Structure I2 to I1** L= 40.7' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.20' / 969.00' S= 0.0049 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Device 1	969.50'	**21.0" Round Structure I9 to I2** L= 87.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.50' / 969.20' S= 0.0034 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf

Primary OutFlow Max=4.99 cfs @ 12.61 hrs HW=970.71' TW=970.02' (Dynamic Tailwater)
↑**1=Structure I2 to I1** (Passes 4.99 cfs of 8.67 cfs potential flow)
↑**2=Structure I9 to I2** (Barrel Controls 4.99 cfs @ 3.97 fps)

Pond 4P: CB_22 pipe



Summary for Pond CB_A10: CB_A10

Inflow Area = 0.864 ac, 25.81% Impervious, Inflow Depth = 1.68" for 2yr-24hr event
Inflow = 1.90 cfs @ 12.20 hrs, Volume= 0.121 af
Outflow = 1.89 cfs @ 12.21 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.4 min
Primary = 1.89 cfs @ 12.21 hrs, Volume= 0.121 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.19' @ 12.21 hrs Surf.Area= 334 sf Storage= 36 cf

Plug-Flow detention time= 0.3 min calculated for 0.121 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (797.1 - 796.7)

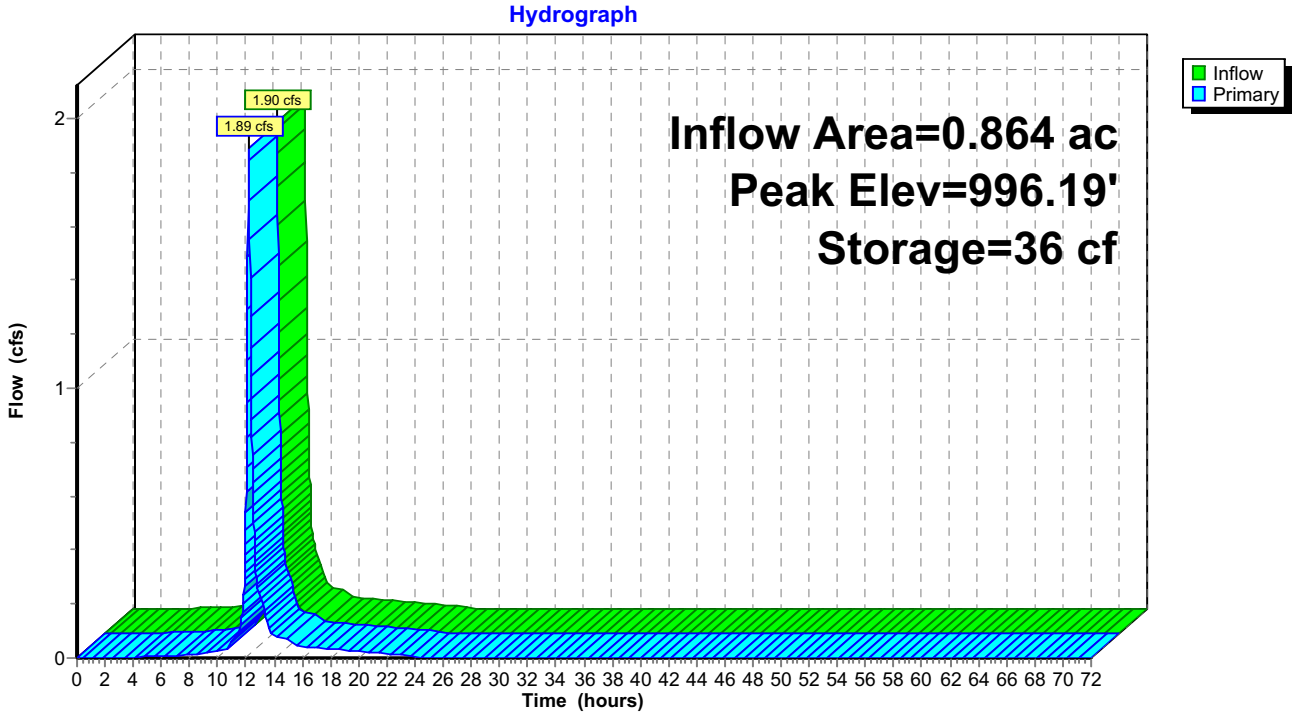
Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	3,110 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	3,060	3,110	3,110

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.88 cfs @ 12.21 hrs HW=996.19' TW=978.58' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.88 cfs @ 1.42 fps)

Pond CB_A10: CB_A10



Summary for Pond CB_A15: CB_A15

Inflow Area = 0.696 ac, 28.02% Impervious, Inflow Depth = 1.33" for 2yr-24hr event
Inflow = 1.22 cfs @ 12.20 hrs, Volume= 0.077 af
Outflow = 1.21 cfs @ 12.21 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.3 min
Primary = 0.78 cfs @ 12.21 hrs, Volume= 0.050 af
Secondary = 0.43 cfs @ 12.21 hrs, Volume= 0.027 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 998.10' @ 12.21 hrs Surf.Area= 326 sf Storage= 20 cf

Plug-Flow detention time= 0.3 min calculated for 0.077 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (795.2 - 795.0)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	5,372 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	50	0	0
1,000.00	5,322	5,372	5,372

Device	Routing	Invert	Outlet Devices
#1	Primary	998.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.00'	**5.0' 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=0.78 cfs @ 12.21 hrs HW=998.10' TW=978.57' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 0.78 cfs @ 1.06 fps)

Secondary OutFlow Max=0.43 cfs @ 12.21 hrs HW=998.10' TW=996.19' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 0.43 cfs @ 0.82 fps)

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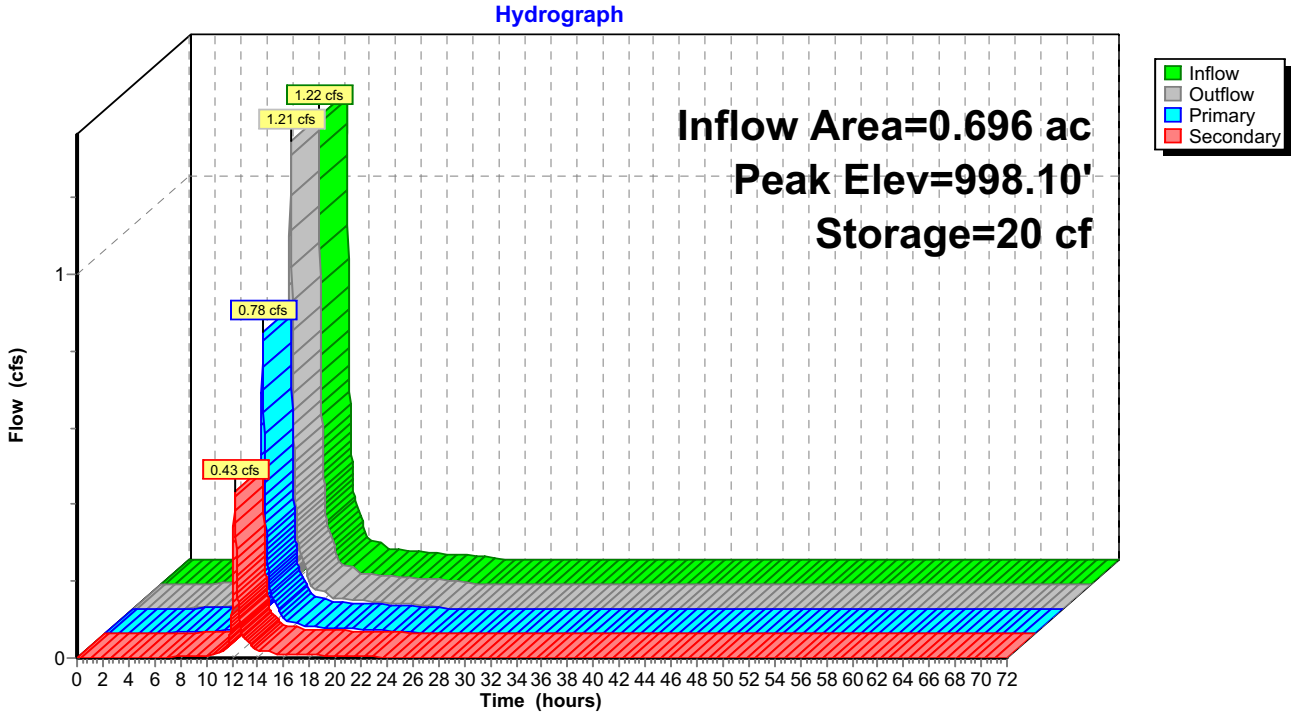
Pond CB_A15: CB_A15



Summary for Pond CB_A8: CB_A8

Inflow Area = 0.095 ac, 10.53% Impervious, Inflow Depth = 1.02" for 2yr-24hr event
Inflow = 0.13 cfs @ 12.21 hrs, Volume= 0.008 af
Outflow = 0.13 cfs @ 12.21 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.3 min
Primary = 0.13 cfs @ 12.21 hrs, Volume= 0.008 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.03' @ 12.21 hrs Surf.Area= 95 sf Storage= 2 cf

Plug-Flow detention time= 0.5 min calculated for 0.008 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (818.0 - 817.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	4,988 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.50	2,200	1,688	1,688
1,005.00	2,200	3,300	4,988

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.50'	**5.0' 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=0.13 cfs @ 12.21 hrs HW=1,002.03' TW=978.58' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.13 cfs @ 0.58 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,002.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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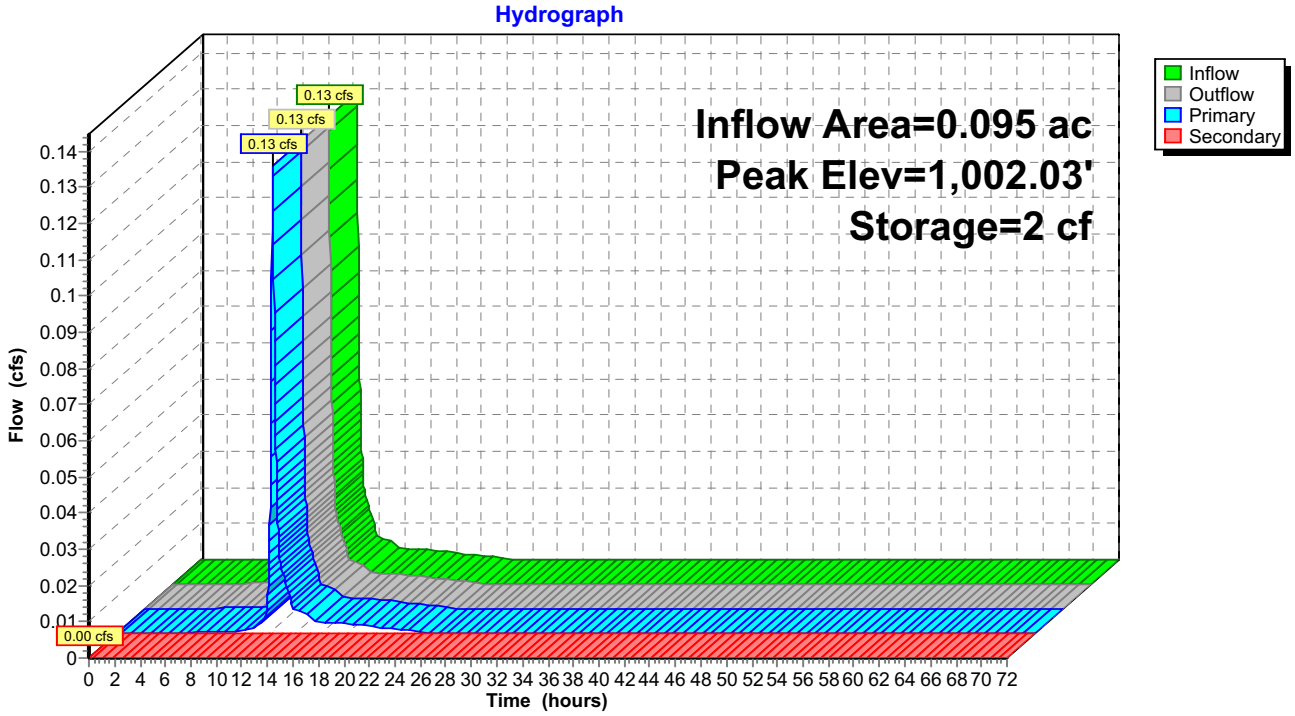
Pond CB_A8: CB_A8



Summary for Pond CB_A9: CB_A9

Inflow Area = 0.671 ac, 21.61% Impervious, Inflow Depth = 1.22" for 2yr-24hr event
Inflow = 1.08 cfs @ 12.20 hrs, Volume= 0.068 af
Outflow = 0.83 cfs @ 12.29 hrs, Volume= 0.068 af, Atten= 23%, Lag= 5.1 min
Primary = 0.83 cfs @ 12.29 hrs, Volume= 0.068 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.11' @ 12.29 hrs Surf.Area= 4,187 sf Storage= 451 cf

Plug-Flow detention time= 18.9 min calculated for 0.068 af (100% of inflow)
Center-of-Mass det. time= 19.1 min (821.0 - 801.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	21,200 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

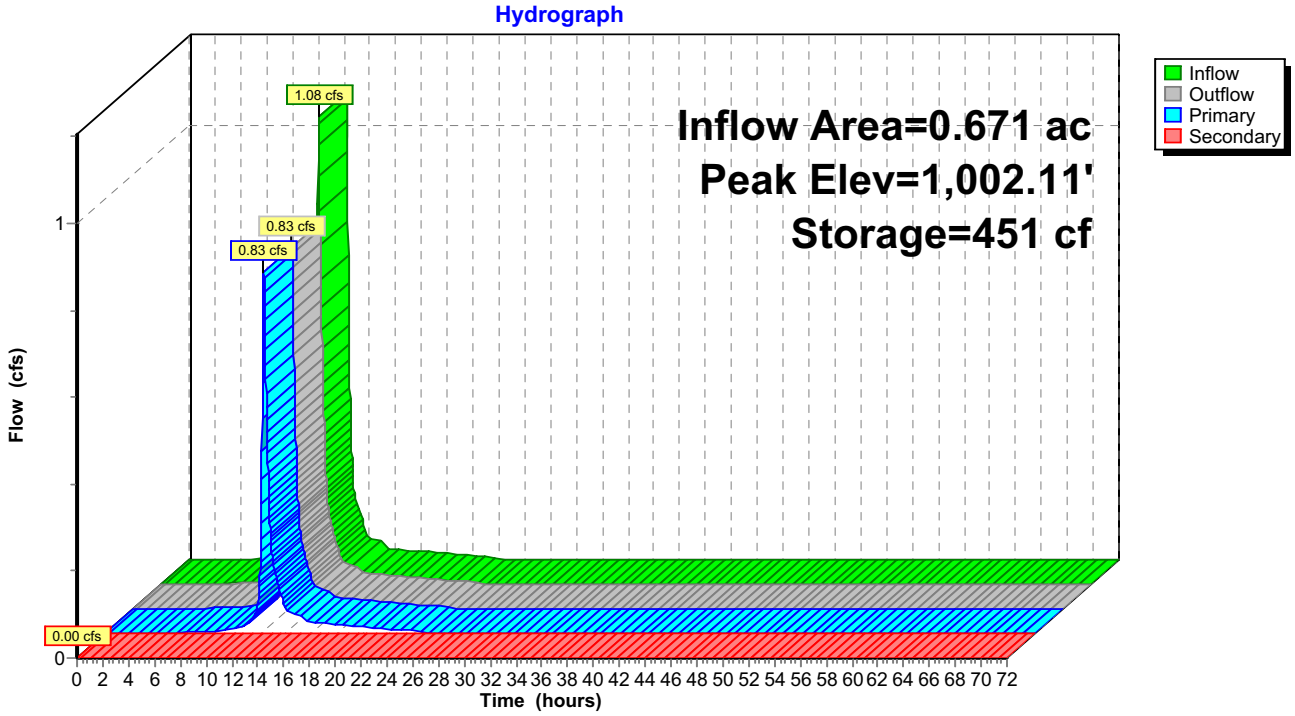
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	4,100	0	0
1,004.00	5,700	9,800	9,800
1,006.00	5,700	11,400	21,200

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,004.00'	**5.0' 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=0.83 cfs @ 12.29 hrs HW=1,002.11' TW=978.71' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.83 cfs @ 1.08 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=997.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_A9: CB_A9



Summary for Pond CB_B5: CB_B5

Inflow Area = 0.552 ac, 7.25% Impervious, Inflow Depth = 0.94" for 2yr-24hr event
Inflow = 0.70 cfs @ 12.21 hrs, Volume= 0.043 af
Outflow = 0.70 cfs @ 12.21 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.4 min
Primary = 0.70 cfs @ 12.21 hrs, Volume= 0.043 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.10' @ 12.21 hrs Surf.Area= 230 sf Storage= 14 cf

Plug-Flow detention time= 0.4 min calculated for 0.043 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (824.1 - 823.7)

Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	3,820 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	3,770	3,820	3,820

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=0.69 cfs @ 12.21 hrs HW=996.10' TW=978.59' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.69 cfs @ 1.02 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=996.00' TW=994.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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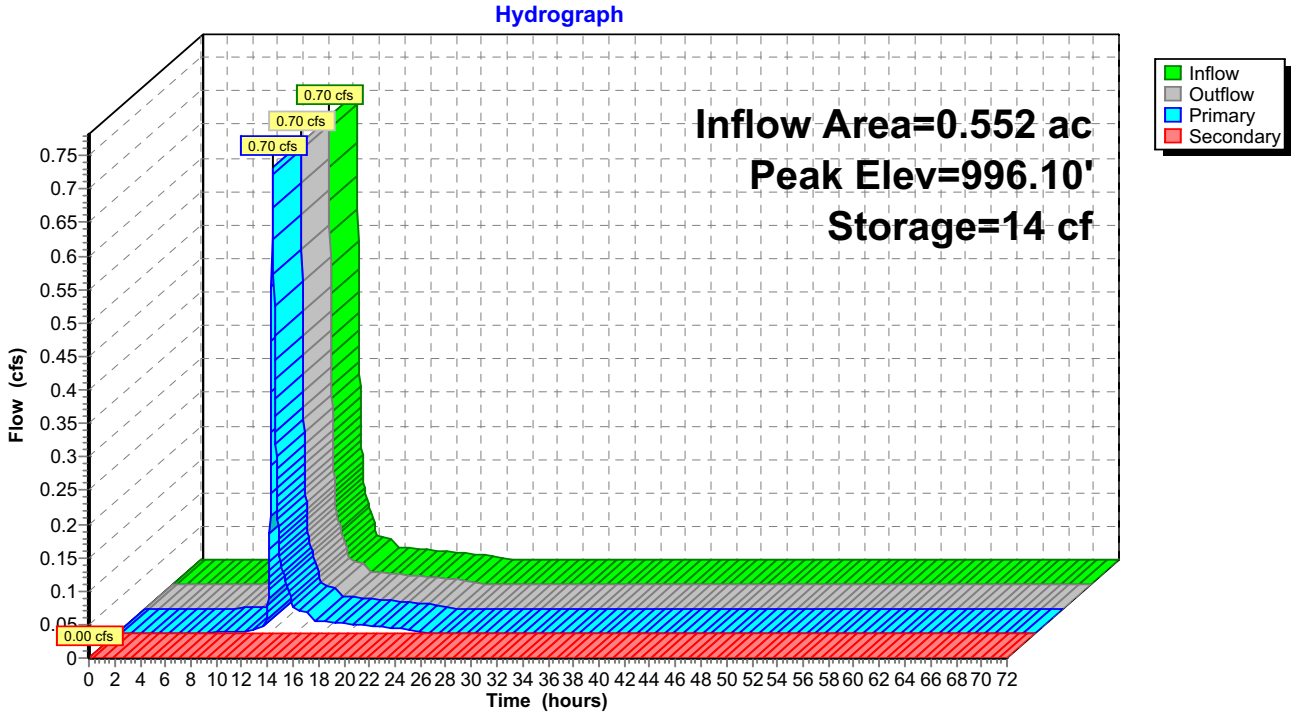
Pond CB_B5: CB_B5



Summary for Pond CB_B6: CB_B6

Inflow Area = 1.508 ac, 9.28% Impervious, Inflow Depth = 1.25" for 2yr-24hr event
Inflow = 2.50 cfs @ 12.21 hrs, Volume= 0.157 af
Outflow = 2.49 cfs @ 12.22 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.6 min
Primary = 2.49 cfs @ 12.22 hrs, Volume= 0.157 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.23' @ 12.22 hrs Surf.Area= 529 sf Storage= 66 cf

Plug-Flow detention time= 0.4 min calculated for 0.157 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (819.3 - 818.9)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	29,510 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
996.00	4,280	4,330	4,330
998.00	20,900	25,180	29,510

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.00'	**5.0' 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=2.49 cfs @ 12.22 hrs HW=994.23' TW=978.60' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.49 cfs @ 1.56 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=994.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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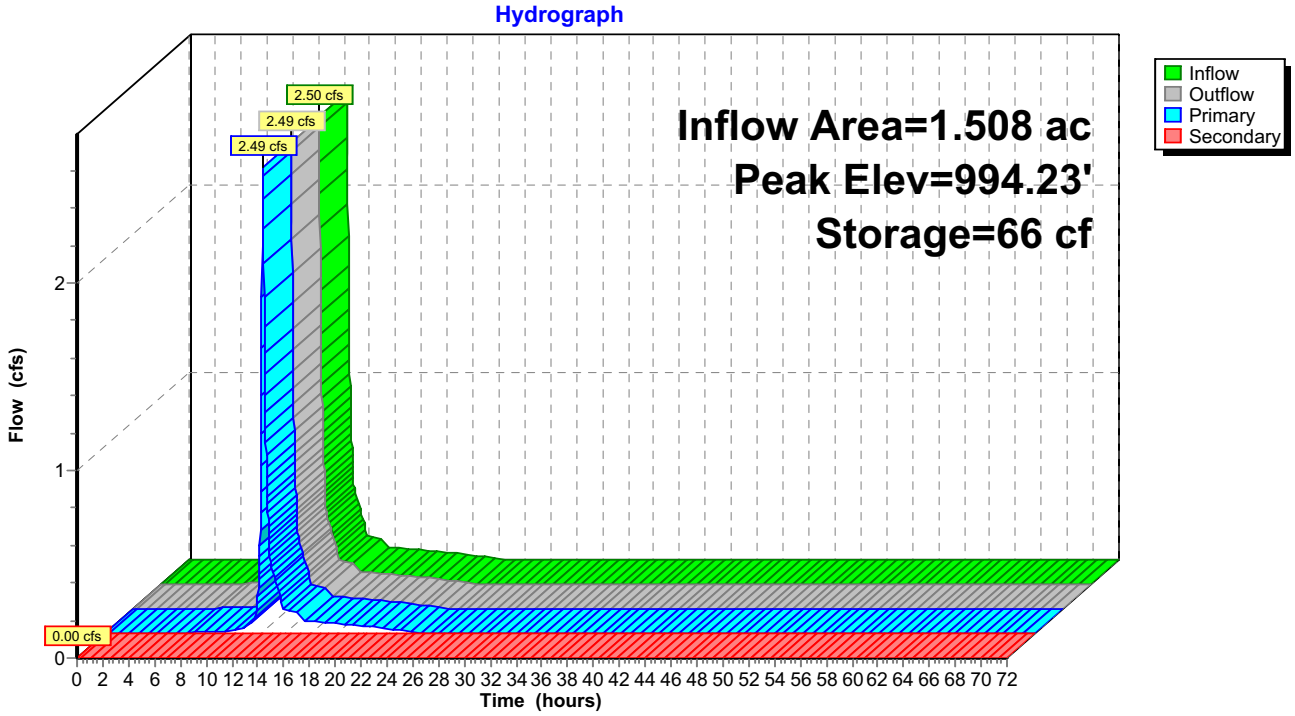
Pond CB_B6: CB_B6



Summary for Pond CB_B7: CB_B7

Inflow Area = 0.993 ac, 14.40% Impervious, Inflow Depth = 1.09" for 2yr-24hr event
Inflow = 1.43 cfs @ 12.21 hrs, Volume= 0.090 af
Outflow = 1.41 cfs @ 12.23 hrs, Volume= 0.090 af, Atten= 2%, Lag= 1.2 min
Primary = 0.91 cfs @ 12.23 hrs, Volume= 0.058 af
Secondary = 0.50 cfs @ 12.23 hrs, Volume= 0.032 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 998.12' @ 12.23 hrs Surf.Area= 1,240 sf Storage= 150 cf

Plug-Flow detention time= 6.1 min calculated for 0.090 af (100% of inflow)
Center-of-Mass det. time= 4.7 min (816.0 - 811.3)

Volume	Invert	Avail.Storage	Storage Description
#1	997.99'	1,246 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.99	50	0	0
998.00	1,240	6	6
999.00	1,240	1,240	1,246

Device	Routing	Invert	Outlet Devices
#1	Primary	998.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.00'	**5.0' 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=0.91 cfs @ 12.23 hrs HW=998.12' TW=978.61' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.91 cfs @ 1.11 fps)

Secondary OutFlow Max=0.50 cfs @ 12.23 hrs HW=998.12' TW=994.23' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 0.50 cfs @ 0.86 fps)

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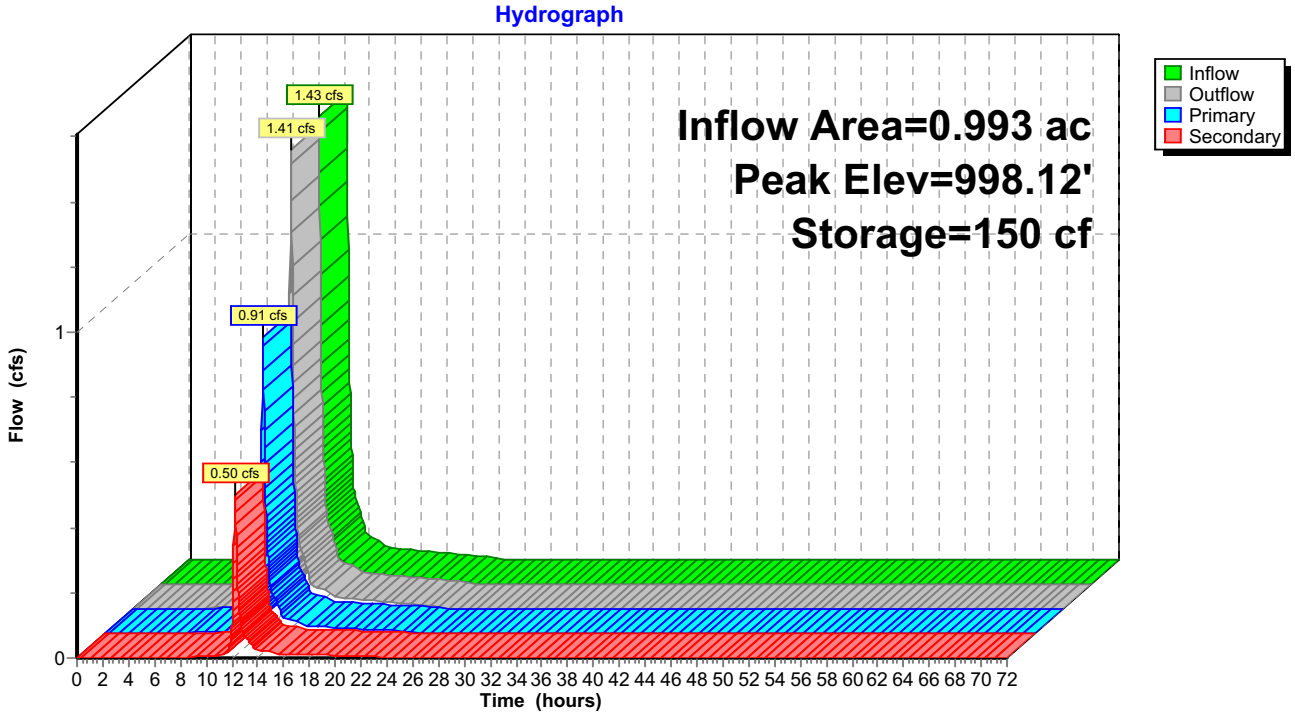
Pond CB_B7: CB_B7



Summary for Pond CB_B8: CB_B8

Inflow Area = 1.140 ac, 19.74% Impervious, Inflow Depth = 1.18" for 2yr-24hr event
Inflow = 1.77 cfs @ 12.20 hrs, Volume= 0.112 af
Outflow = 1.77 cfs @ 12.21 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.1 min
Primary = 1.77 cfs @ 12.21 hrs, Volume= 0.112 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 995.68' @ 12.21 hrs Surf.Area= 129 sf Storage= 16 cf

Plug-Flow detention time= 0.2 min calculated for 0.112 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (804.4 - 804.2)

Volume	Invert	Avail.Storage	Storage Description
#1	995.50'	7,410 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

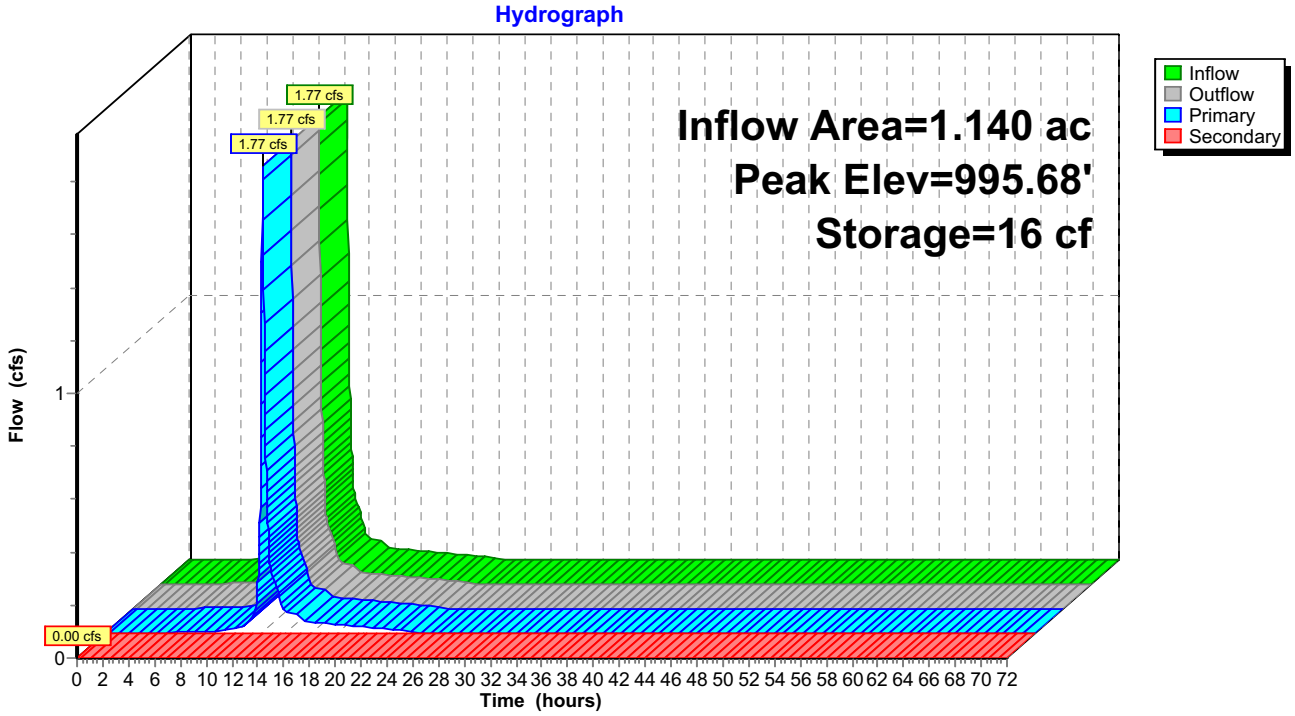
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
995.50	50	0	0
996.00	270	80	80
998.00	7,060	7,330	7,410

Device	Routing	Invert	Outlet Devices
#1	Primary	995.50'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=1.76 cfs @ 12.21 hrs HW=995.68' TW=978.57' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 1.76 cfs @ 1.39 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=995.50' TW=996.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_B8: CB_B8



Summary for Pond CB_C10: CB_C10

Inflow Area = 1.860 ac, 19.46% Impervious, Inflow Depth = 1.18" for 2yr-24hr event
Inflow = 2.90 cfs @ 12.20 hrs, Volume= 0.183 af
Outflow = 2.89 cfs @ 12.21 hrs, Volume= 0.183 af, Atten= 0%, Lag= 0.4 min
Primary = 2.89 cfs @ 12.21 hrs, Volume= 0.183 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.25' @ 12.21 hrs Surf.Area= 381 sf Storage= 54 cf

Plug-Flow detention time= 0.3 min calculated for 0.183 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (804.8 - 804.5)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	11,870 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
996.00	2,700	2,750	2,750
997.00	5,180	3,940	6,690
998.00	5,180	5,180	11,870

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.00'	**5.0' 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=2.88 cfs @ 12.21 hrs HW=994.25' TW=978.58' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 2.88 cfs @ 1.63 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=993.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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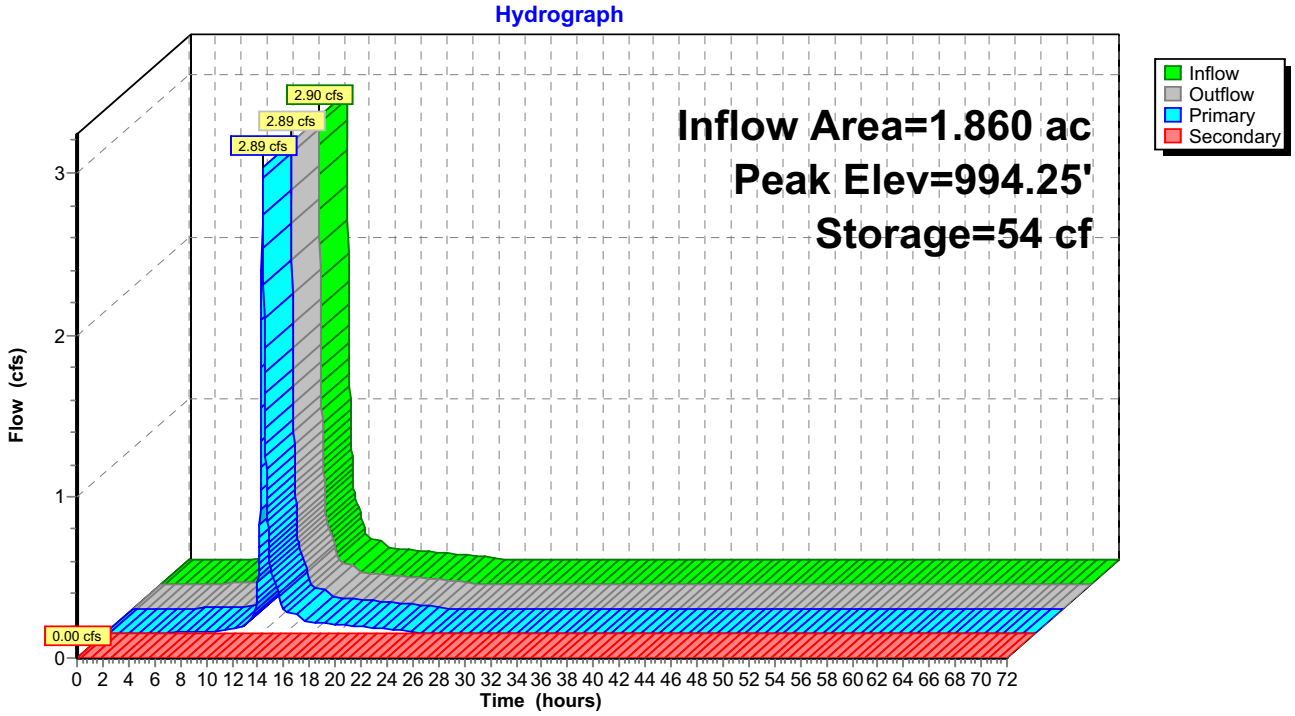
Pond CB_C10: CB_C10



Summary for Pond CB_C6: CB_C6

Inflow Area = 0.839 ac, 1.31% Impervious, Inflow Depth = 0.85" for 2yr-24hr event
Inflow = 0.97 cfs @ 12.21 hrs, Volume= 0.059 af
Outflow = 0.97 cfs @ 12.22 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.4 min
Primary = 0.97 cfs @ 12.22 hrs, Volume= 0.059 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 993.12' @ 12.22 hrs Surf.Area= 251 sf Storage= 18 cf

Plug-Flow detention time= 0.3 min calculated for 0.059 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (836.4 - 836.1)

Volume	Invert	Avail.Storage	Storage Description
#1	993.00'	885 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

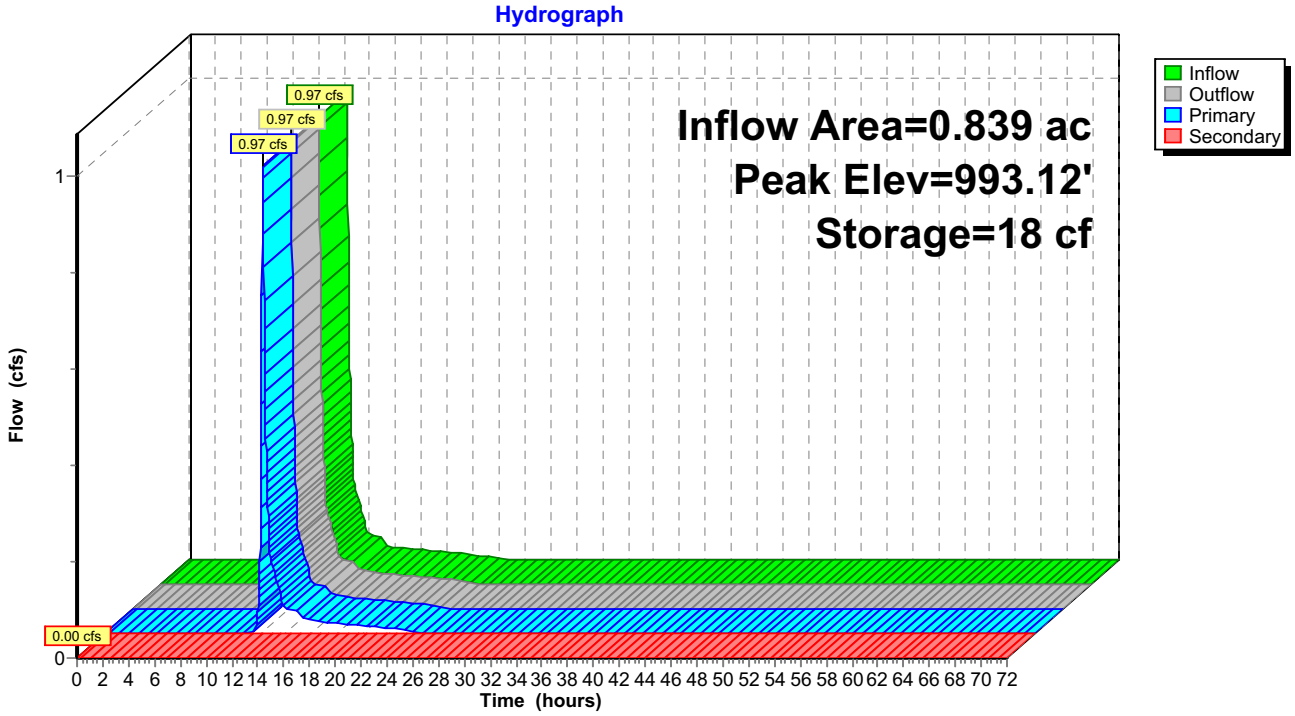
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
993.00	50	0	0
994.00	1,720	885	885

Device	Routing	Invert	Outlet Devices
#1	Primary	993.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=0.97 cfs @ 12.22 hrs HW=993.12' TW=978.59' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.97 cfs @ 1.13 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=993.00' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_C6: CB_C6



Summary for Pond CB_C7: CB_C7

Inflow Area = 1.347 ac, 13.73% Impervious, Inflow Depth = 1.08" for 2yr-24hr event
Inflow = 1.89 cfs @ 12.21 hrs, Volume= 0.121 af
Outflow = 1.88 cfs @ 12.22 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.6 min
Primary = 1.88 cfs @ 12.22 hrs, Volume= 0.121 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 993.19' @ 12.22 hrs Surf.Area= 489 sf Storage= 51 cf

Plug-Flow detention time= 0.4 min calculated for 0.121 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (813.3 - 812.9)

Volume	Invert	Avail.Storage	Storage Description
#1	993.00'	1,220 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
993.00	50	0	0
994.00	2,390	1,220	1,220

Device	Routing	Invert	Outlet Devices
#1	Primary	993.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=1.88 cfs @ 12.22 hrs HW=993.19' TW=978.60' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 1.88 cfs @ 1.42 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=993.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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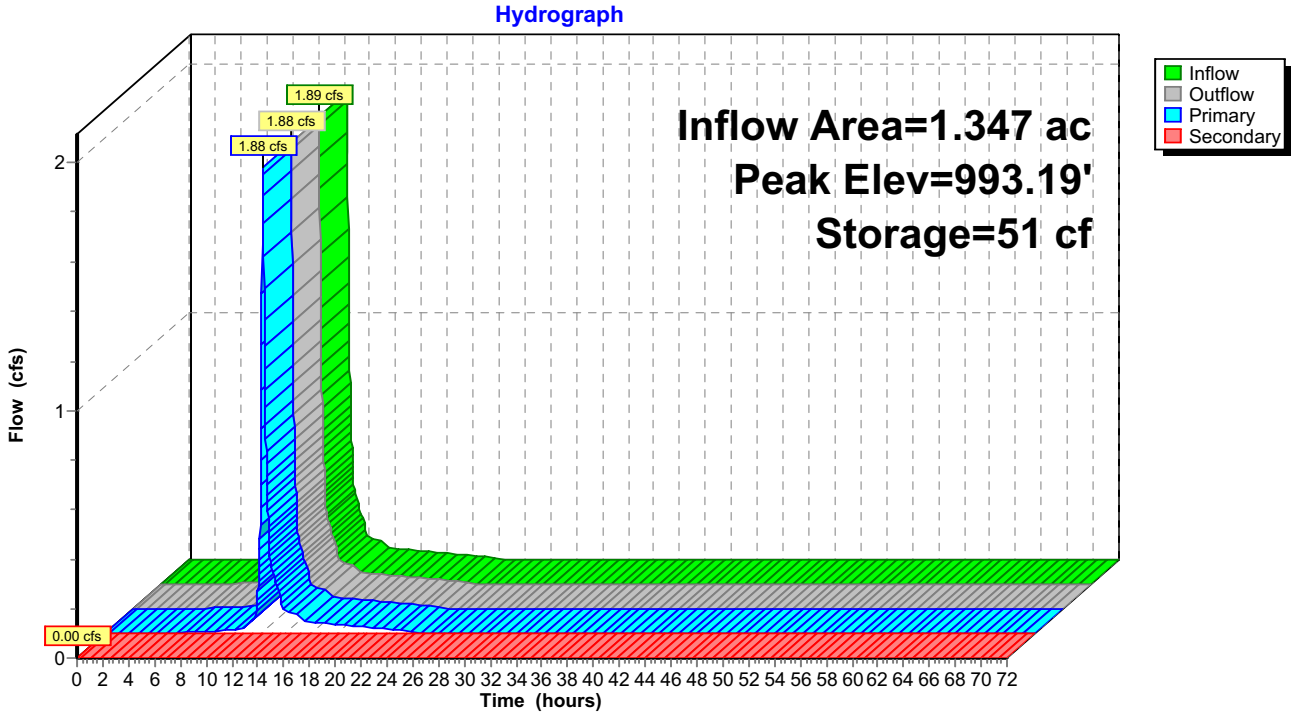
Pond CB_C7: CB_C7



Summary for Pond CB_C8: CB_C8

Inflow Area = 1.927 ac, 22.47% Impervious, Inflow Depth = 1.23" for 2yr-24hr event
Inflow = 3.06 cfs @ 12.21 hrs, Volume= 0.198 af
Outflow = 3.05 cfs @ 12.21 hrs, Volume= 0.198 af, Atten= 0%, Lag= 0.3 min
Primary = 3.05 cfs @ 12.21 hrs, Volume= 0.198 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 991.26' @ 12.21 hrs Surf.Area= 248 sf Storage= 39 cf

Plug-Flow detention time= 0.2 min calculated for 0.198 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (801.7 - 801.5)

Volume	Invert	Avail.Storage	Storage Description
#1	991.00'	6,743 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
991.00	50	0	0
992.00	812	431	431
994.00	5,500	6,312	6,743

Device	Routing	Invert	Outlet Devices
#1	Primary	991.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.04 cfs @ 12.21 hrs HW=991.26' TW=978.59' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 3.04 cfs @ 1.66 fps)

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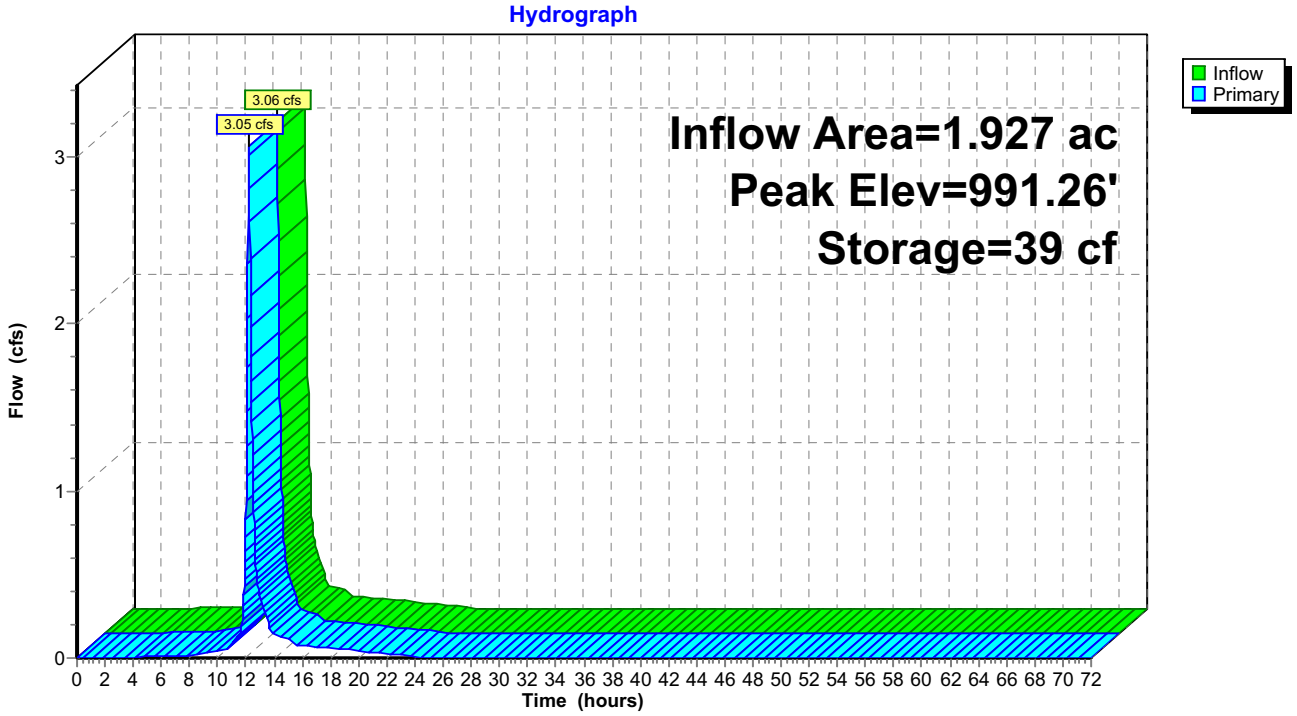
Pond CB_C8: CB_C8



Summary for Pond CB_C9: CB_C9

Inflow Area = 2.063 ac, 15.90% Impervious, Inflow Depth = 1.11" for 2yr-24hr event
Inflow = 3.05 cfs @ 12.21 hrs, Volume= 0.192 af
Outflow = 3.03 cfs @ 12.22 hrs, Volume= 0.192 af, Atten= 1%, Lag= 0.6 min
Primary = 3.03 cfs @ 12.22 hrs, Volume= 0.192 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 992.26' @ 12.22 hrs Surf.Area= 614 sf Storage= 86 cf

Plug-Flow detention time= 0.4 min calculated for 0.192 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (809.6 - 809.2)

Volume	Invert	Avail.Storage	Storage Description
#1	992.00'	4,470 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
992.00	50	0	0
994.00	4,420	4,470	4,470

Device	Routing	Invert	Outlet Devices
#1	Primary	992.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=3.02 cfs @ 12.22 hrs HW=992.26' TW=978.59' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 3.02 cfs @ 1.66 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=992.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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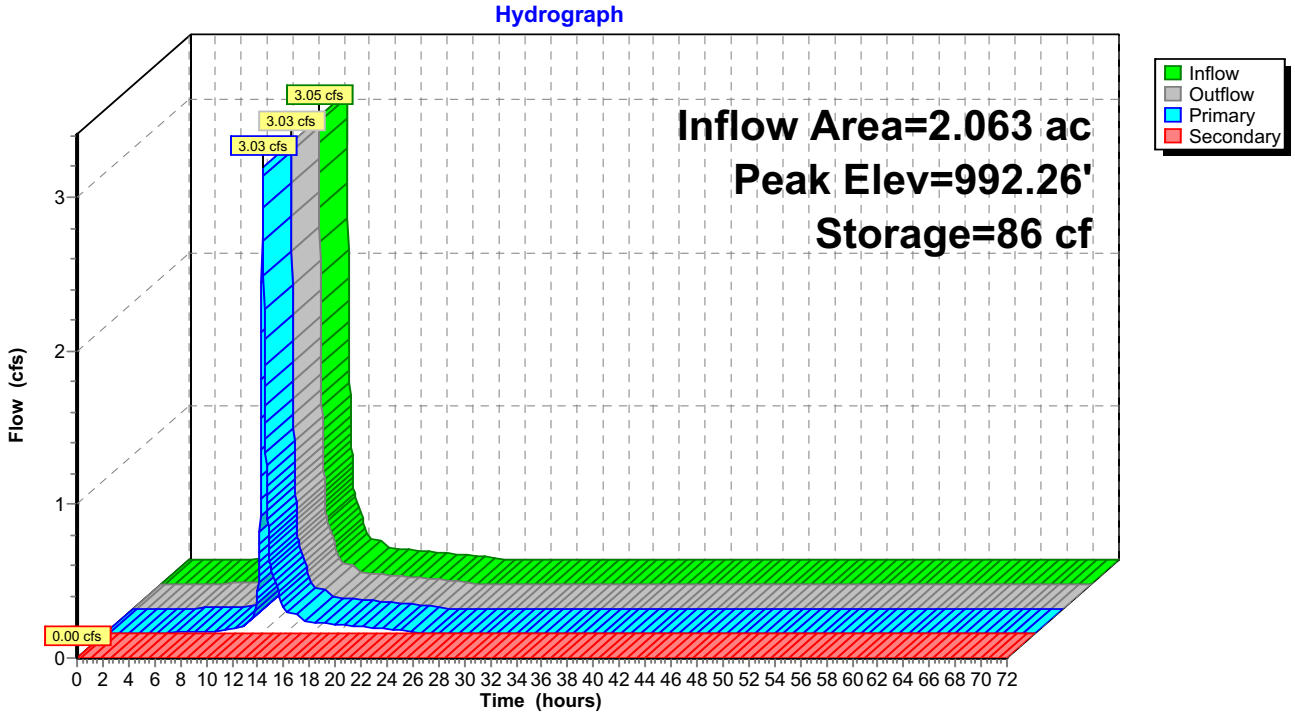
Pond CB_C9: CB_C9



Summary for Pond CB_D6: CB_D6

Inflow Area = 0.376 ac, 3.46% Impervious, Inflow Depth = 0.89" for 2yr-24hr event
Inflow = 0.45 cfs @ 12.21 hrs, Volume= 0.028 af
Outflow = 0.45 cfs @ 12.22 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.6 min
Primary = 0.45 cfs @ 12.22 hrs, Volume= 0.028 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,000.07' @ 12.22 hrs Surf.Area= 308 sf Storage= 13 cf

Plug-Flow detention time= 0.5 min calculated for 0.028 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (831.6 - 831.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	5,448 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	50	0	0
1,001.00	3,615	1,833	1,833
1,002.00	3,615	3,615	5,448

Device	Routing	Invert	Outlet Devices
#1	Primary	1,000.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,001.00'	**3.0' 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=0.45 cfs @ 12.22 hrs HW=1,000.07' TW=978.60' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.45 cfs @ 0.88 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,000.00' TW=997.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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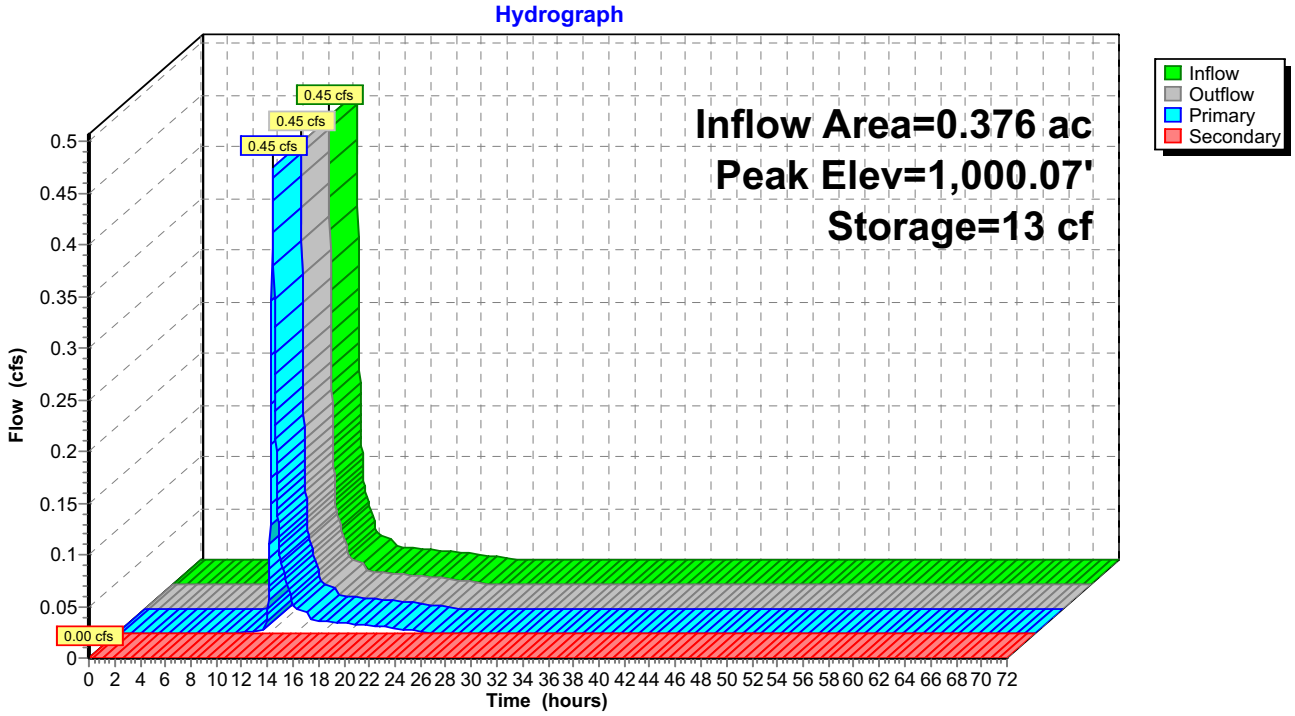
Pond CB_D6: CB_D6



Summary for Pond CB_D7: CB_D7

Inflow Area = 0.586 ac, 17.58% Impervious, Inflow Depth = 1.15" for 2yr-24hr event
Inflow = 0.89 cfs @ 12.20 hrs, Volume= 0.056 af
Outflow = 0.88 cfs @ 12.21 hrs, Volume= 0.056 af, Atten= 1%, Lag= 0.6 min
Primary = 0.88 cfs @ 12.21 hrs, Volume= 0.056 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.11' @ 12.21 hrs Surf.Area= 402 sf Storage= 26 cf

Plug-Flow detention time= 0.5 min calculated for 0.056 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (807.4 - 806.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	4,750 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.00	3,150	1,600	1,600
1,004.00	3,150	3,150	4,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.00'	**3.0' 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=0.88 cfs @ 12.21 hrs HW=1,002.11' TW=978.59' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 0.88 cfs @ 1.10 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,000.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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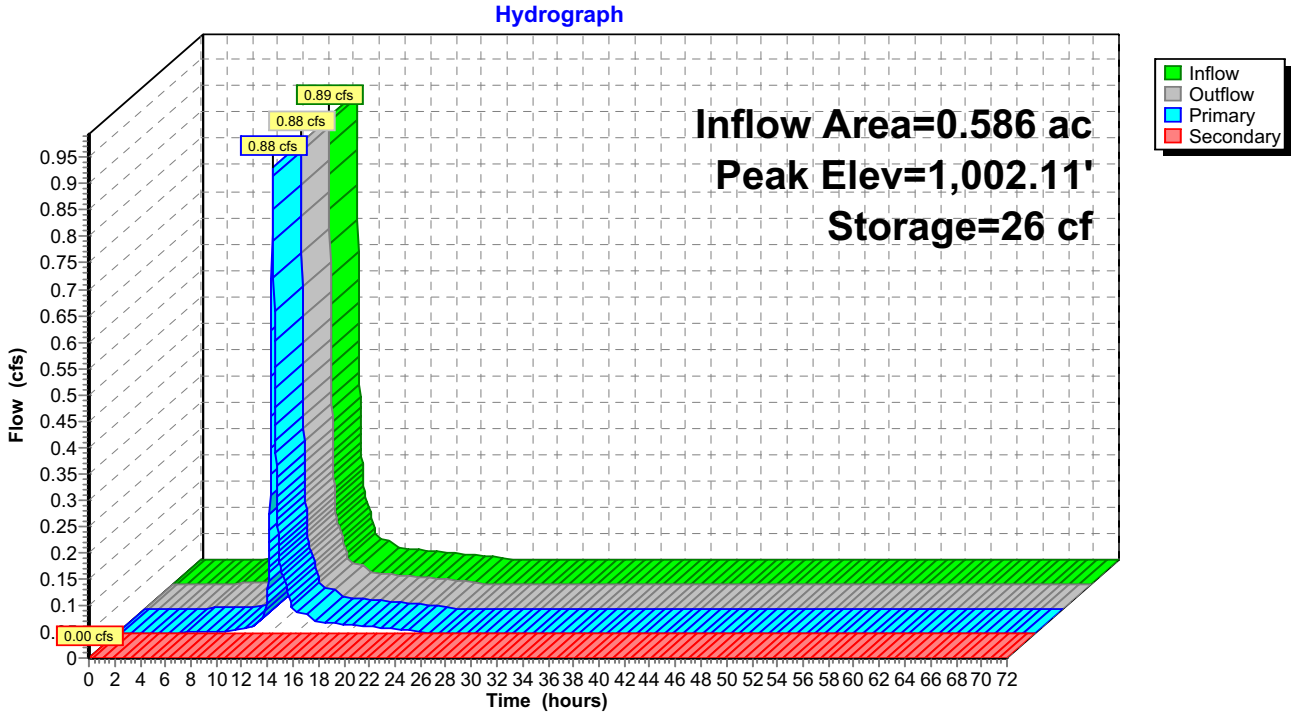
Pond CB_D7: CB_D7



Summary for Pond CB_D8: CB_D8

Inflow Area = 1.215 ac, 7.98% Impervious, Inflow Depth = 0.97" for 2yr-24hr event
Inflow = 1.58 cfs @ 12.21 hrs, Volume= 0.098 af
Outflow = 1.57 cfs @ 12.22 hrs, Volume= 0.098 af, Atten= 1%, Lag= 0.8 min
Primary = 1.57 cfs @ 12.22 hrs, Volume= 0.098 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.17' @ 12.22 hrs Surf.Area= 695 sf Storage= 62 cf

Plug-Flow detention time= 0.5 min calculated for 0.098 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (822.5 - 822.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	13,245 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

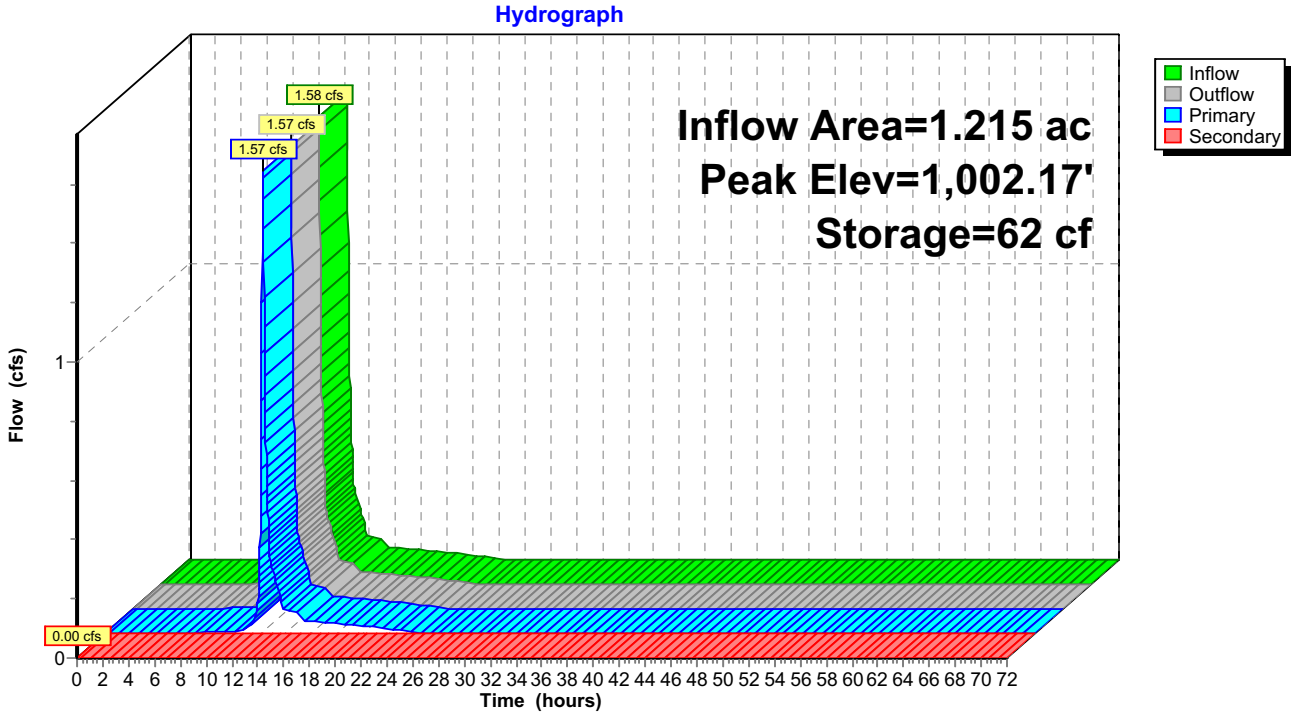
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.50	5,870	4,440	4,440
1,005.00	5,870	8,805	13,245

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.50'	**5.0' 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=1.57 cfs @ 12.22 hrs HW=1,002.17' TW=978.60' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.57 cfs @ 1.33 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,002.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_D8: CB_D8



Summary for Pond CB_D9: CB_D9

Inflow Area = 1.254 ac, 16.11% Impervious, Inflow Depth = 1.12" for 2yr-24hr event
Inflow = 1.86 cfs @ 12.20 hrs, Volume= 0.117 af
Outflow = 1.84 cfs @ 12.22 hrs, Volume= 0.117 af, Atten= 1%, Lag= 0.8 min
Primary = 1.84 cfs @ 12.22 hrs, Volume= 0.117 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 997.19' @ 12.22 hrs Surf.Area= 656 sf Storage= 70 cf

Plug-Flow detention time= 0.7 min calculated for 0.117 af (100% of inflow)
Center-of-Mass det. time= 0.7 min (809.5 - 808.9)

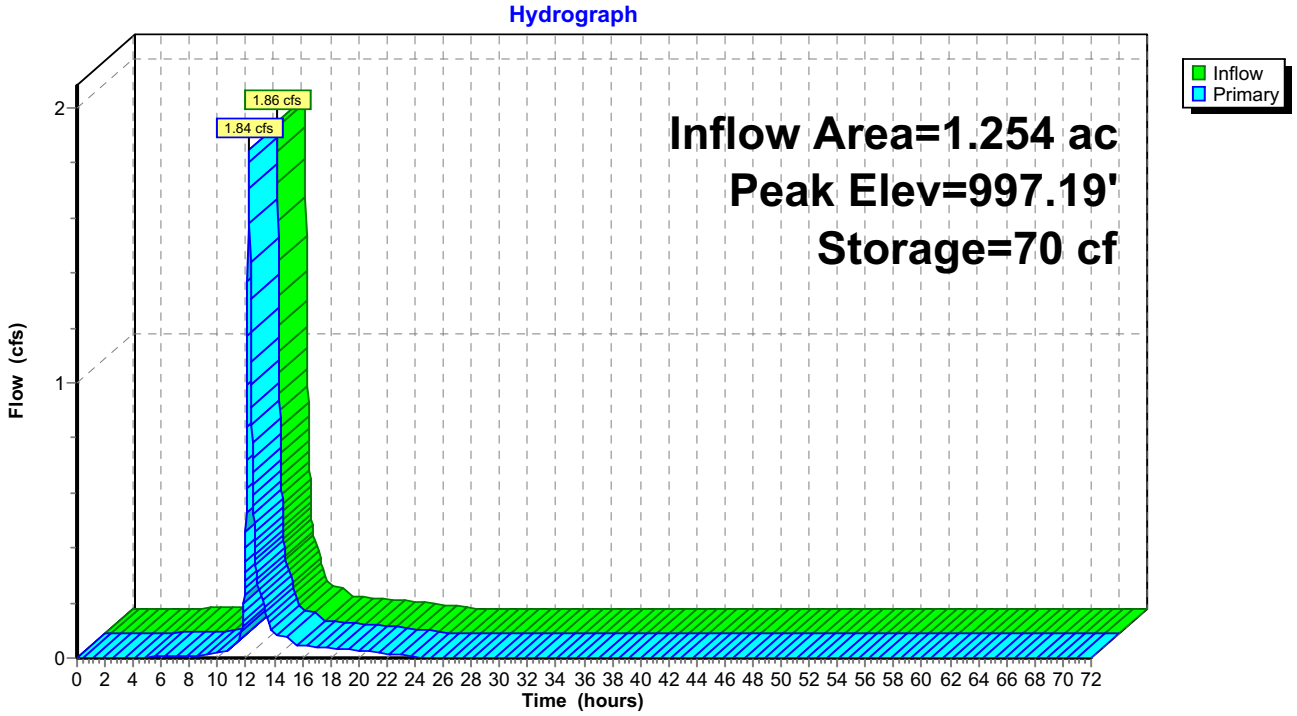
Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	41,500 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	100	0	0
998.00	3,100	1,600	1,600
1,000.00	18,400	21,500	23,100
1,001.00	18,400	18,400	41,500

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	1,000.00'	**5.0' 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=1.84 cfs @ 12.22 hrs HW=997.19' TW=978.59' (Dynamic Tailwater)
└─**1=Grate** (Weir Controls 1.84 cfs @ 1.41 fps)
└─**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_D9: CB_D9



Summary for Pond CB_E13: CB_E13

Inflow Area = 0.980 ac, 25.31% Impervious, Inflow Depth = 1.29" for 2yr-24hr event
Inflow = 1.65 cfs @ 12.20 hrs, Volume= 0.105 af
Outflow = 1.65 cfs @ 12.21 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.2 min
Primary = 1.65 cfs @ 12.21 hrs, Volume= 0.105 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,004.17' @ 12.21 hrs Surf.Area= 138 sf Storage= 16 cf

Plug-Flow detention time= 0.2 min calculated for 0.105 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (798.0 - 797.7)

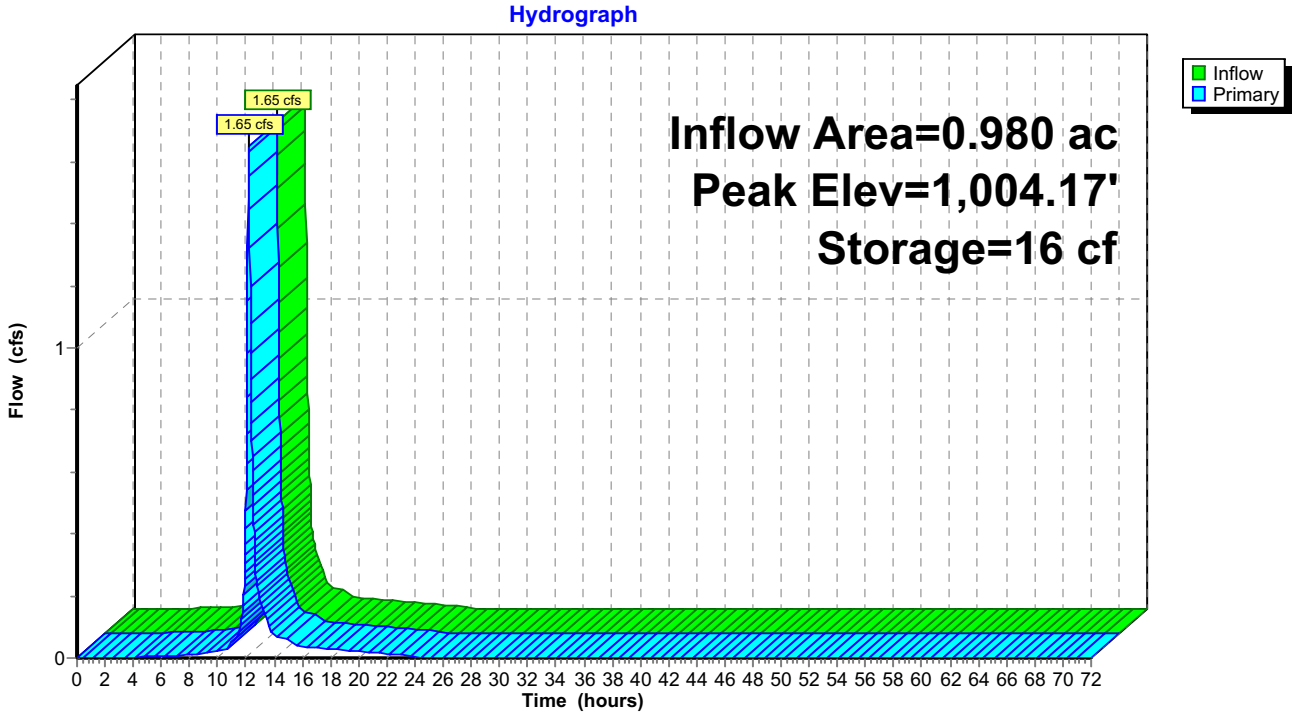
Volume	Invert	Avail.Storage	Storage Description
#1	1,004.00'	1,120 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,004.00	50	0	0
1,006.00	1,070	1,120	1,120

Device	Routing	Invert	Outlet Devices
#1	Primary	1,004.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.65 cfs @ 12.21 hrs HW=1,004.17' TW=978.57' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.65 cfs @ 1.36 fps)

Pond CB_E13: CB_E13



Summary for Pond CB_E15: CB_E15

Inflow Area = 1.926 ac, 26.90% Impervious, Inflow Depth = 1.31" for 2yr-24hr event
Inflow = 3.32 cfs @ 12.20 hrs, Volume= 0.211 af
Outflow = 3.32 cfs @ 12.21 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.2 min
Primary = 3.32 cfs @ 12.21 hrs, Volume= 0.211 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 992.27' @ 12.21 hrs Surf.Area= 268 sf Storage= 44 cf

Plug-Flow detention time= 0.2 min calculated for 0.211 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (796.3 - 796.1)

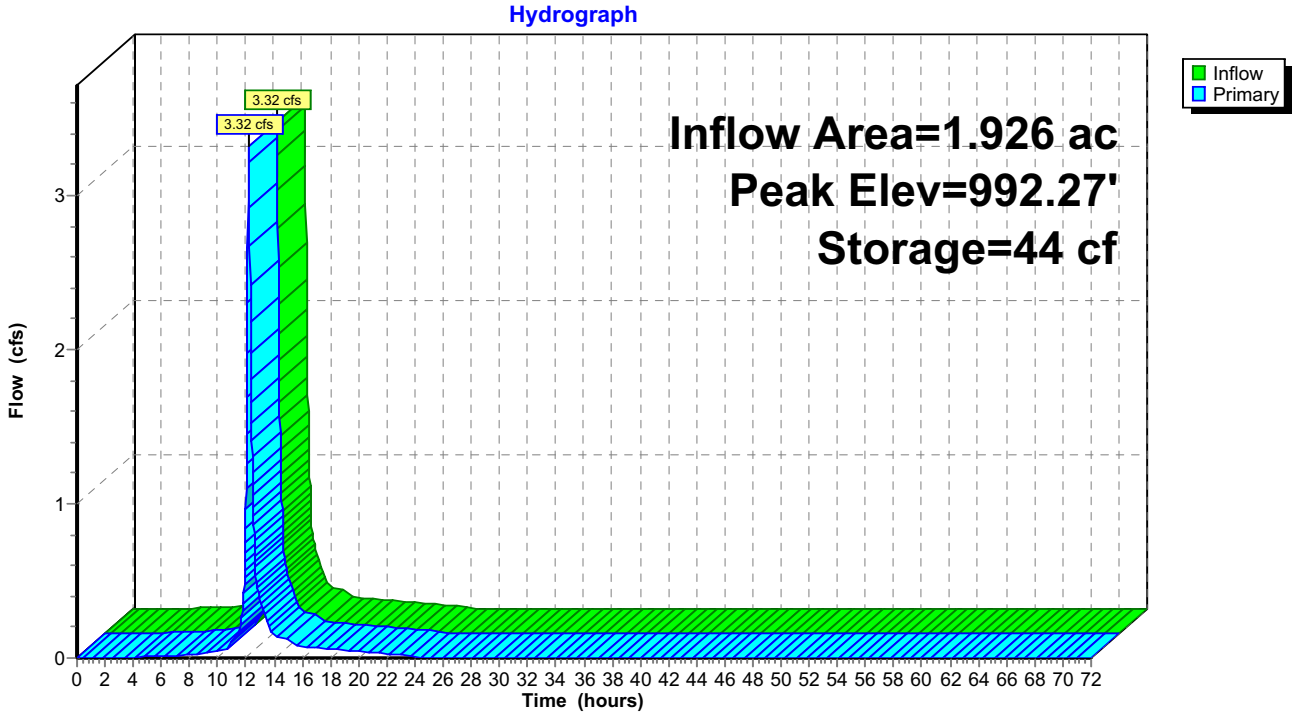
Volume	Invert	Avail.Storage	Storage Description
#1	992.00'	1,690 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
992.00	50	0	0
994.00	1,640	1,690	1,690

Device	Routing	Invert	Outlet Devices
#1	Primary	992.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.30 cfs @ 12.21 hrs HW=992.27' TW=978.57' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.30 cfs @ 1.71 fps)

Pond CB_E15: CB_E15



Summary for Pond CB_E16: CB_E16

Inflow Area = 1.374 ac, 25.84% Impervious, Inflow Depth = 1.30" for 2yr-24hr event
Inflow = 2.33 cfs @ 12.20 hrs, Volume= 0.148 af
Outflow = 2.32 cfs @ 12.21 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.5 min
Primary = 2.32 cfs @ 12.21 hrs, Volume= 0.148 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.22' @ 12.21 hrs Surf.Area= 519 sf Storage= 62 cf

Plug-Flow detention time= 0.4 min calculated for 0.148 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (797.5 - 797.2)

Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	4,440 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	4,390	4,440	4,440

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=2.31 cfs @ 12.21 hrs HW=996.22' TW=978.58' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.31 cfs @ 1.52 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=996.00' TW=992.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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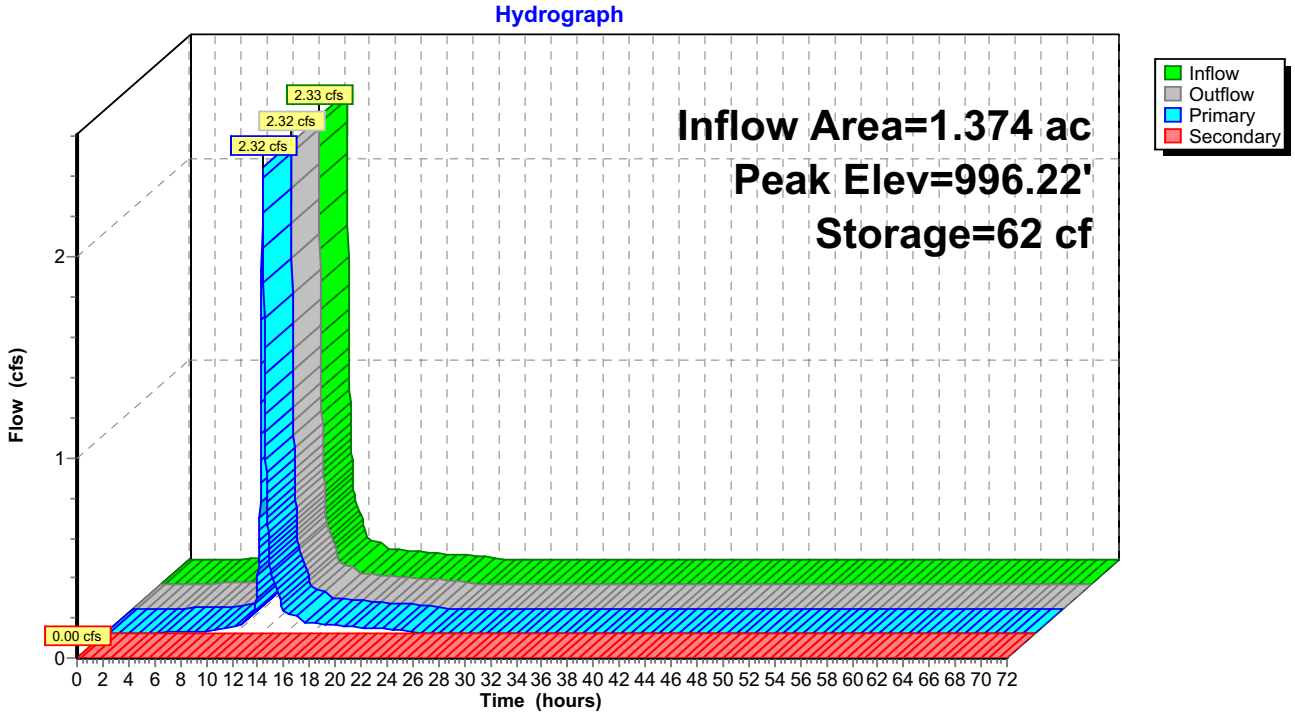
Pond CB_E16: CB_E16



Summary for Pond CB_E17: CB_E17

Inflow Area = 0.991 ac, 20.48% Impervious, Inflow Depth = 1.20" for 2yr-24hr event
Inflow = 1.57 cfs @ 12.20 hrs, Volume= 0.099 af
Outflow = 1.55 cfs @ 12.22 hrs, Volume= 0.099 af, Atten= 1%, Lag= 0.8 min
Primary = 1.55 cfs @ 12.22 hrs, Volume= 0.099 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.17' @ 12.22 hrs Surf.Area= 674 sf Storage= 104 cf

Plug-Flow detention time= 3.1 min calculated for 0.099 af (100% of inflow)
Center-of-Mass det. time= 2.7 min (805.9 - 803.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,001.99'	2,228 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,001.99	50	0	0
1,002.00	550	3	3
1,003.00	1,300	925	928
1,004.00	1,300	1,300	2,228

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.00'	**5.0' 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=1.55 cfs @ 12.22 hrs HW=1,002.16' TW=978.59' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 1.55 cfs @ 1.33 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,001.99' TW=996.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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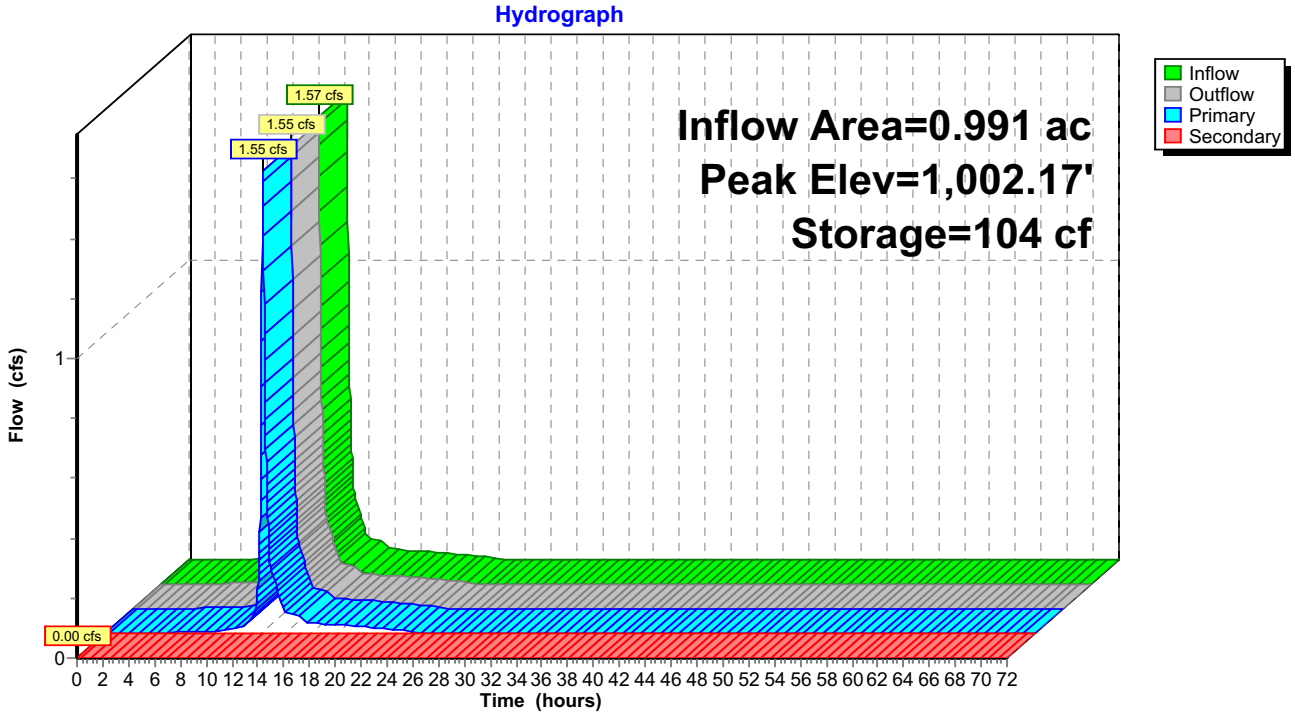
Pond CB_E17: CB_E17



Summary for Pond CB_E18: CB_E18

Inflow Area = 1.734 ac, 9.86% Impervious, Inflow Depth = 1.01" for 2yr-24hr event
Inflow = 2.33 cfs @ 12.21 hrs, Volume= 0.145 af
Outflow = 2.30 cfs @ 12.22 hrs, Volume= 0.144 af, Atten= 1%, Lag= 0.9 min
Primary = 2.30 cfs @ 12.22 hrs, Volume= 0.144 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,008.22' @ 12.22 hrs Surf.Area= 842 sf Storage= 226 cf

Plug-Flow detention time= 10.5 min calculated for 0.144 af (99% of inflow)
Center-of-Mass det. time= 6.1 min (824.7 - 818.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,007.90'	1,729 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,007.90	50	0	0
1,008.00	842	45	45
1,009.00	842	842	887
1,010.00	842	842	1,729

Device	Routing	Invert	Outlet Devices
#1	Primary	1,008.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,009.00'	**5.0' 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=2.30 cfs @ 12.22 hrs HW=1,008.21' TW=978.60' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 2.30 cfs @ 1.52 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,007.90' TW=1,001.99' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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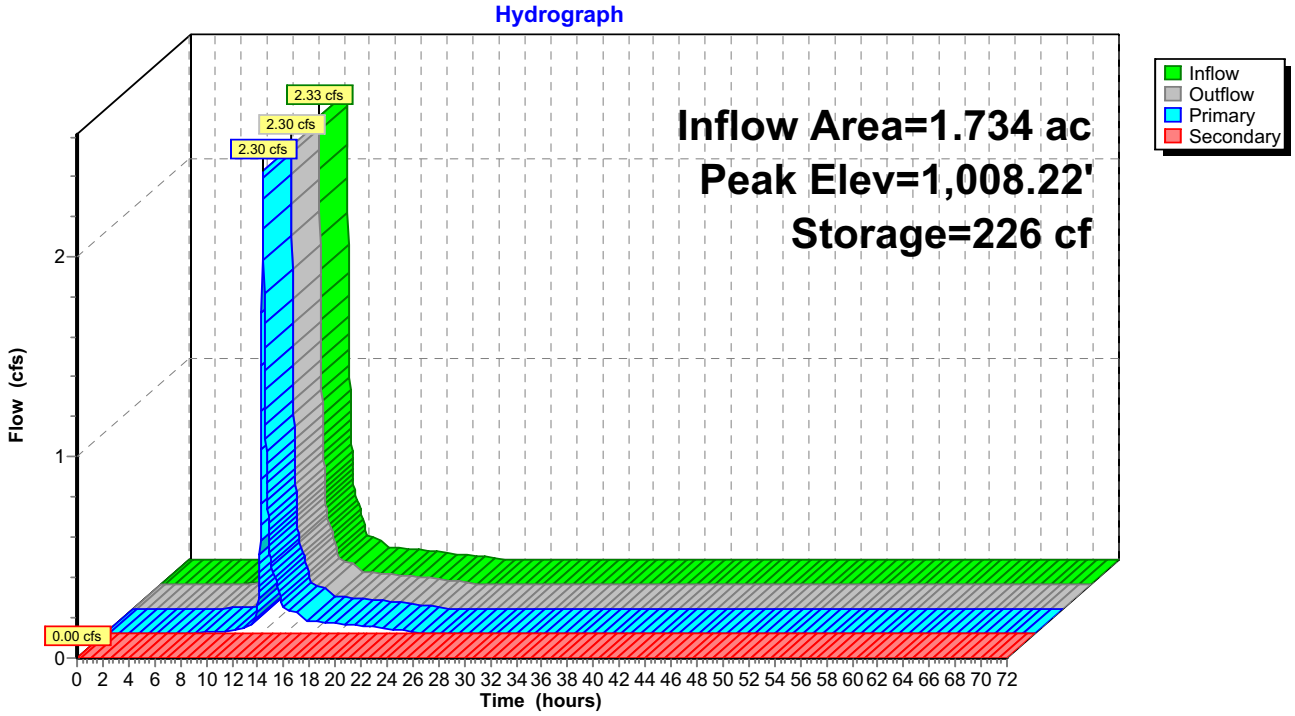
Pond CB_E18: CB_E18



Summary for Pond CB_F5: CB_F5

Inflow Area = 1.224 ac, 21.24% Impervious, Inflow Depth = 1.93" for 2yr-24hr event
Inflow = 2.69 cfs @ 12.20 hrs, Volume= 0.197 af
Outflow = 2.68 cfs @ 12.21 hrs, Volume= 0.197 af, Atten= 1%, Lag= 0.6 min
Primary = 2.68 cfs @ 12.21 hrs, Volume= 0.197 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 983.24' @ 12.21 hrs Surf.Area= 608 sf Storage= 78 cf

Plug-Flow detention time= 0.4 min calculated for 0.197 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (809.3 - 808.9)

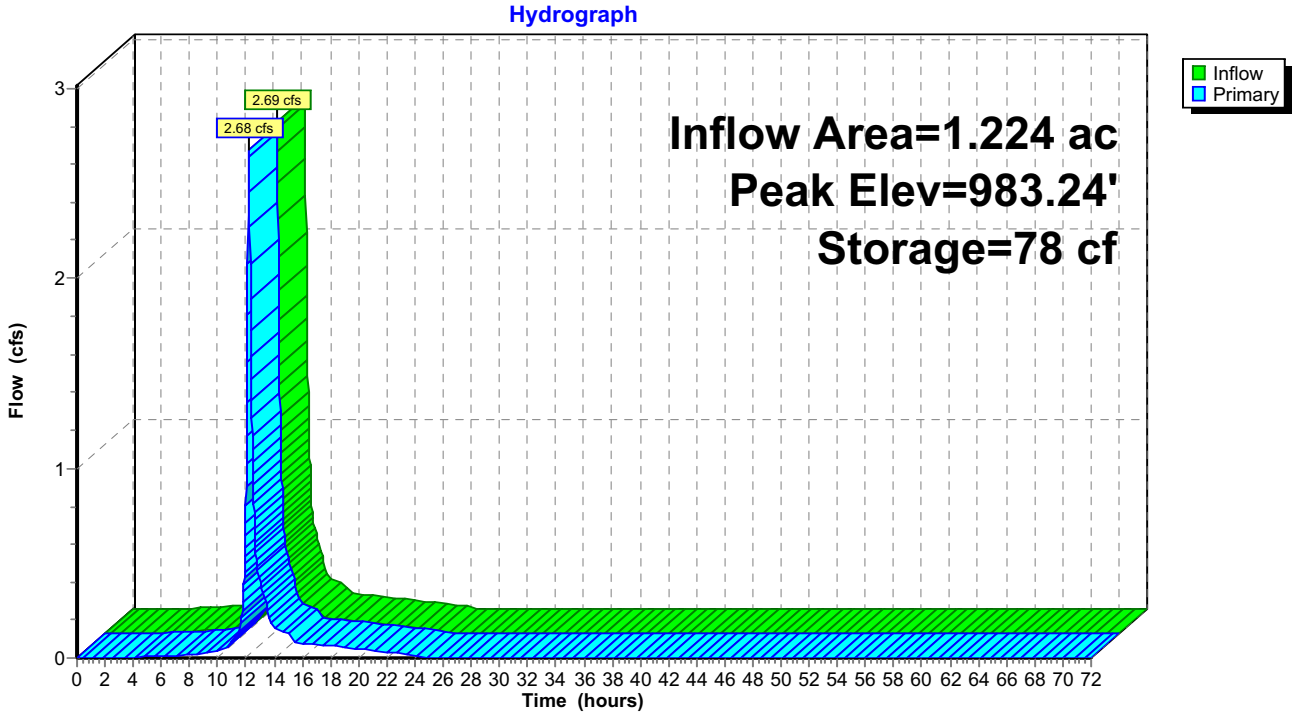
Volume	Invert	Avail.Storage	Storage Description
#1	983.00'	13,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
983.00	50	0	0
984.00	2,400	1,225	1,225
986.00	9,900	12,300	13,525

Device	Routing	Invert	Outlet Devices
#1	Primary	983.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.67 cfs @ 12.21 hrs HW=983.24' TW=968.54' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.67 cfs @ 1.59 fps)

Pond CB_F5: CB_F5



Summary for Pond CB_F6: CB_F6

Inflow Area = 0.921 ac, 21.06% Impervious, Inflow Depth = 1.21" for 2yr-24hr event
Inflow = 1.47 cfs @ 12.20 hrs, Volume= 0.093 af
Outflow = 1.47 cfs @ 12.20 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.1 min
Primary = 0.73 cfs @ 12.20 hrs, Volume= 0.019 af
Secondary = 0.74 cfs @ 12.20 hrs, Volume= 0.073 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 986.10' @ 12.20 hrs Surf.Area= 77 sf Storage= 6 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 0.0 min (802.5 - 802.5)

Volume	Invert	Avail.Storage	Storage Description
#1	986.00'	650 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

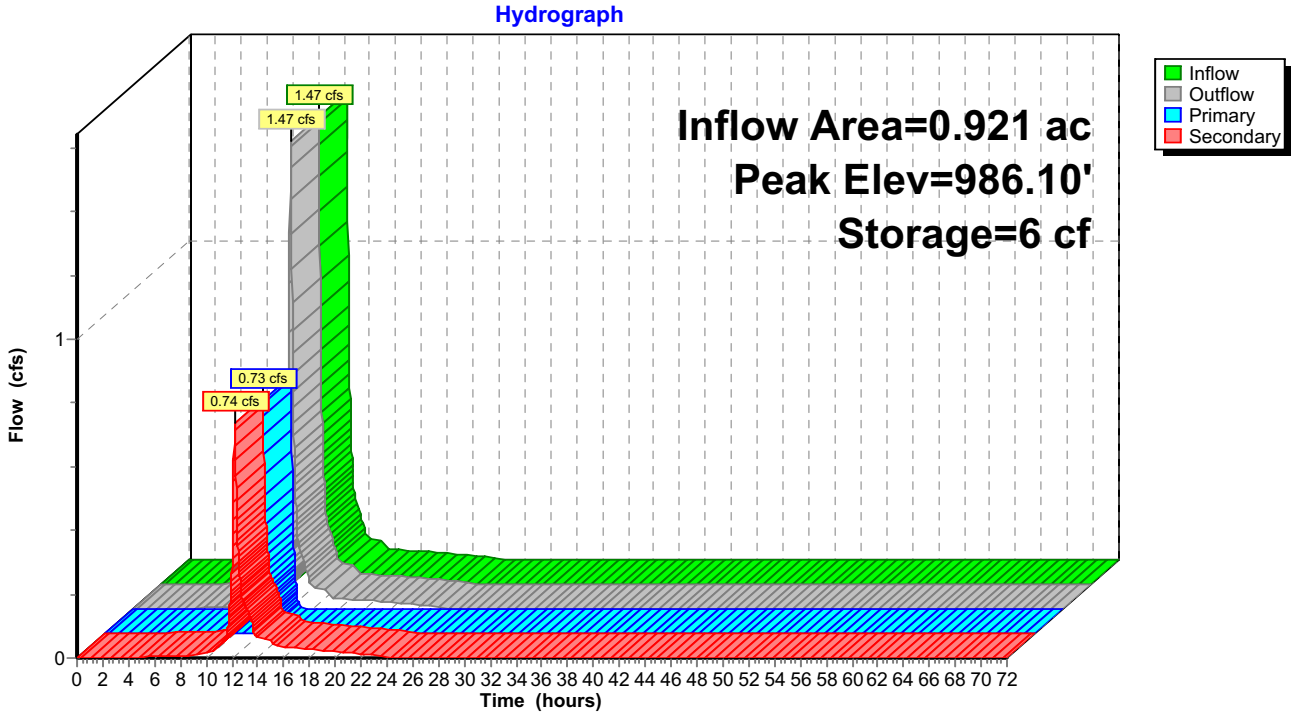
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
986.00	50	0	0
988.00	600	650	650

Device	Routing	Invert	Outlet Devices
#1	Primary	986.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	985.95'	**5.0' 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=0.73 cfs @ 12.20 hrs HW=986.10' TW=968.51' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.73 cfs @ 1.03 fps)

Secondary OutFlow Max=0.73 cfs @ 12.20 hrs HW=986.10' TW=983.24' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 0.73 cfs @ 0.98 fps)

Pond CB_F6: CB_F6



Summary for Pond CB_F7: CB_F7

Inflow Area = 0.667 ac, 11.69% Impervious, Inflow Depth = 1.04" for 2yr-24hr event
Inflow = 0.92 cfs @ 12.21 hrs, Volume= 0.058 af
Outflow = 0.92 cfs @ 12.21 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.3 min
Primary = 0.92 cfs @ 12.21 hrs, Volume= 0.058 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 986.62' @ 12.21 hrs Surf.Area= 184 sf Storage= 14 cf

Plug-Flow detention time= 0.3 min calculated for 0.058 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (815.8 - 815.5)

Volume	Invert	Avail.Storage	Storage Description
#1	986.50'	1,365 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
986.50	50	0	0
988.00	1,770	1,365	1,365

Device	Routing	Invert	Outlet Devices
#1	Primary	986.50'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	987.90'	**5.0' 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=0.92 cfs @ 12.21 hrs HW=986.62' TW=968.53' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.92 cfs @ 1.12 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=986.50' TW=986.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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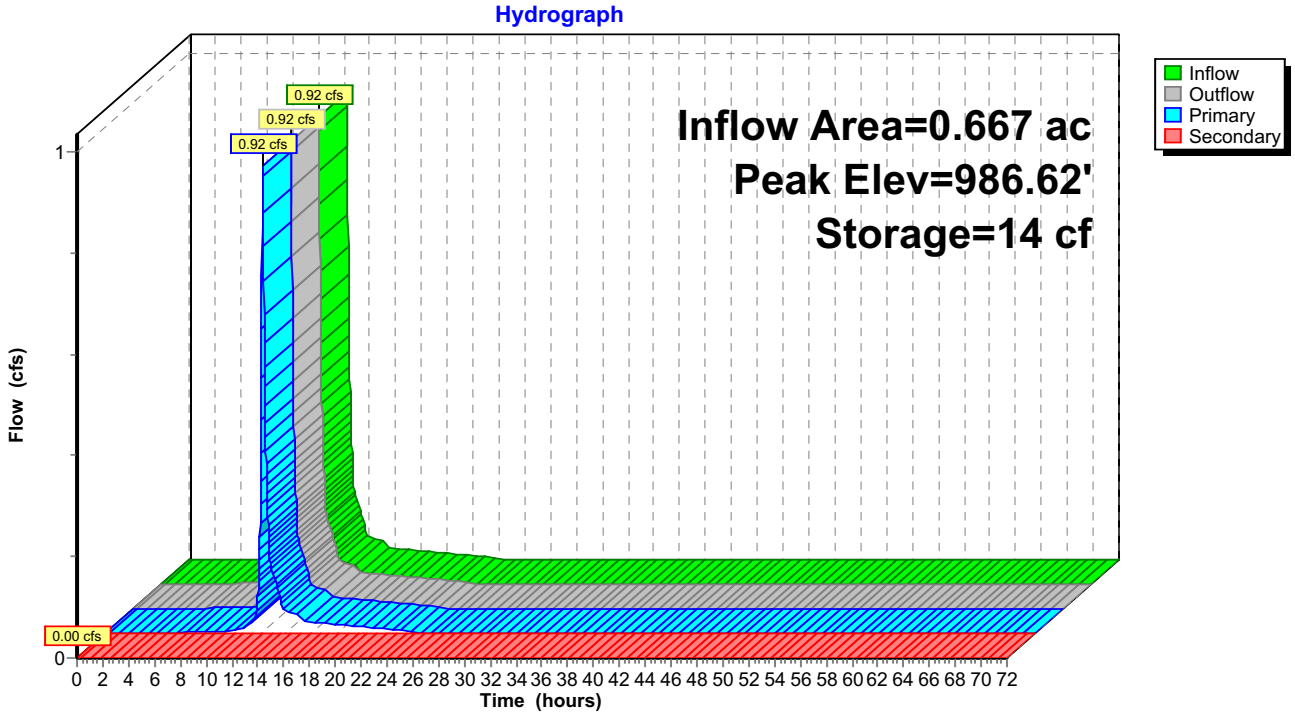
Pond CB_F7: CB_F7



Summary for Pond CB_F8: CB_F8

Inflow Area = 1.906 ac, 16.00% Impervious, Inflow Depth = 1.12" for 2yr-24hr event
Inflow = 2.82 cfs @ 12.21 hrs, Volume= 0.177 af
Outflow = 2.81 cfs @ 12.21 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.4 min
Primary = 2.81 cfs @ 12.21 hrs, Volume= 0.177 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 989.25' @ 12.21 hrs Surf.Area= 431 sf Storage= 59 cf

Plug-Flow detention time= 0.7 min calculated for 0.177 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (809.4 - 809.0)

Volume	Invert	Avail.Storage	Storage Description
#1	989.00'	825 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
989.00	50	0	0
990.00	1,600	825	825

Device	Routing	Invert	Outlet Devices
#1	Primary	989.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.90'	**5.0' 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=2.80 cfs @ 12.21 hrs HW=989.24' TW=968.53' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.80 cfs @ 1.62 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=989.00' TW=986.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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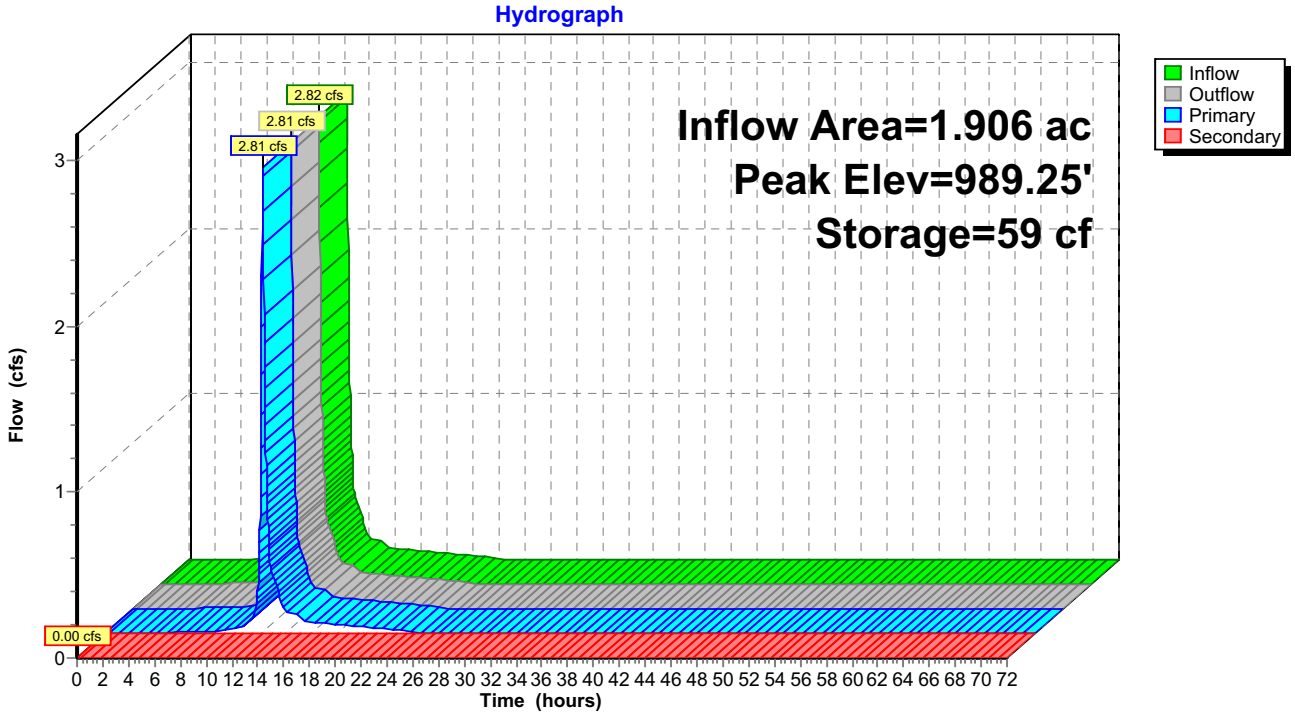
Pond CB_F8: CB_F8



Summary for Pond CB_H5: CB_H5

Inflow Area = 2.168 ac, 27.21% Impervious, Inflow Depth = 1.20" for 2yr-24hr event
Inflow = 3.28 cfs @ 12.20 hrs, Volume= 0.216 af
Outflow = 3.26 cfs @ 12.21 hrs, Volume= 0.216 af, Atten= 1%, Lag= 0.6 min
Primary = 3.26 cfs @ 12.21 hrs, Volume= 0.216 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 972.27' @ 12.21 hrs Surf.Area= 677 sf Storage= 99 cf

Plug-Flow detention time= 0.4 min calculated for 0.216 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (794.7 - 794.3)

Volume	Invert	Avail.Storage	Storage Description
#1	972.00'	30,964 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
972.00	50	0	0
974.00	4,677	4,727	4,727
976.00	21,560	26,237	30,964

Device	Routing	Invert	Outlet Devices
#1	Primary	972.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.25 cfs @ 12.21 hrs HW=972.27' TW=967.61' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.25 cfs @ 1.70 fps)

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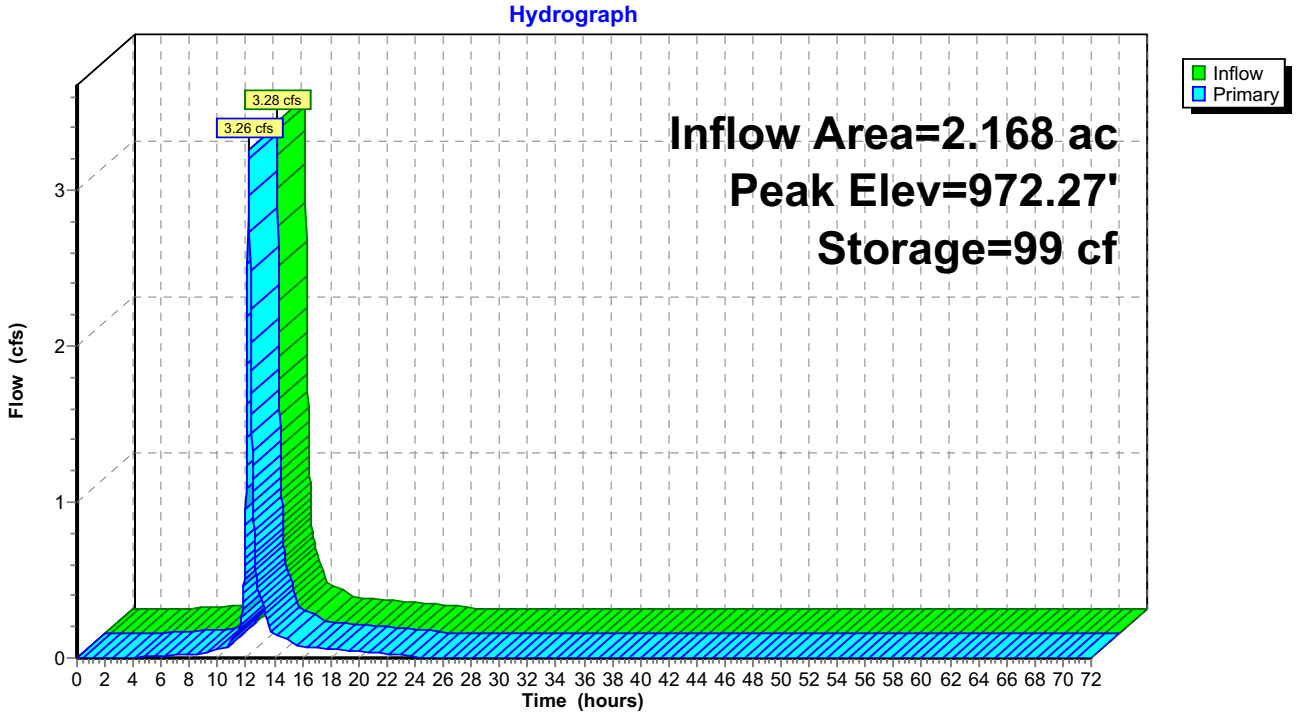
Pond CB_H5: CB_H5



Summary for Pond CB_H6: CB_H6

Inflow Area = 1.008 ac, 19.54% Impervious, Inflow Depth = 0.86" for 2yr-24hr event
Inflow = 1.00 cfs @ 12.21 hrs, Volume= 0.072 af
Outflow = 0.99 cfs @ 12.22 hrs, Volume= 0.072 af, Atten= 1%, Lag= 0.9 min
Primary = 0.99 cfs @ 12.22 hrs, Volume= 0.072 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 973.12' @ 12.22 hrs Surf.Area= 669 sf Storage= 44 cf

Plug-Flow detention time= 0.6 min calculated for 0.072 af (100% of inflow)
Center-of-Mass det. time= 0.6 min (802.8 - 802.2)

Volume	Invert	Avail.Storage	Storage Description
#1	973.00'	35,125 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
973.00	50	0	0
974.00	5,100	2,575	2,575
975.00	20,000	12,550	15,125
976.00	20,000	20,000	35,125

Device	Routing	Invert	Outlet Devices
#1	Primary	973.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	975.00'	**5.0' 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=0.99 cfs @ 12.22 hrs HW=973.12' TW=967.62' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 0.99 cfs @ 1.14 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.00' TW=967.50' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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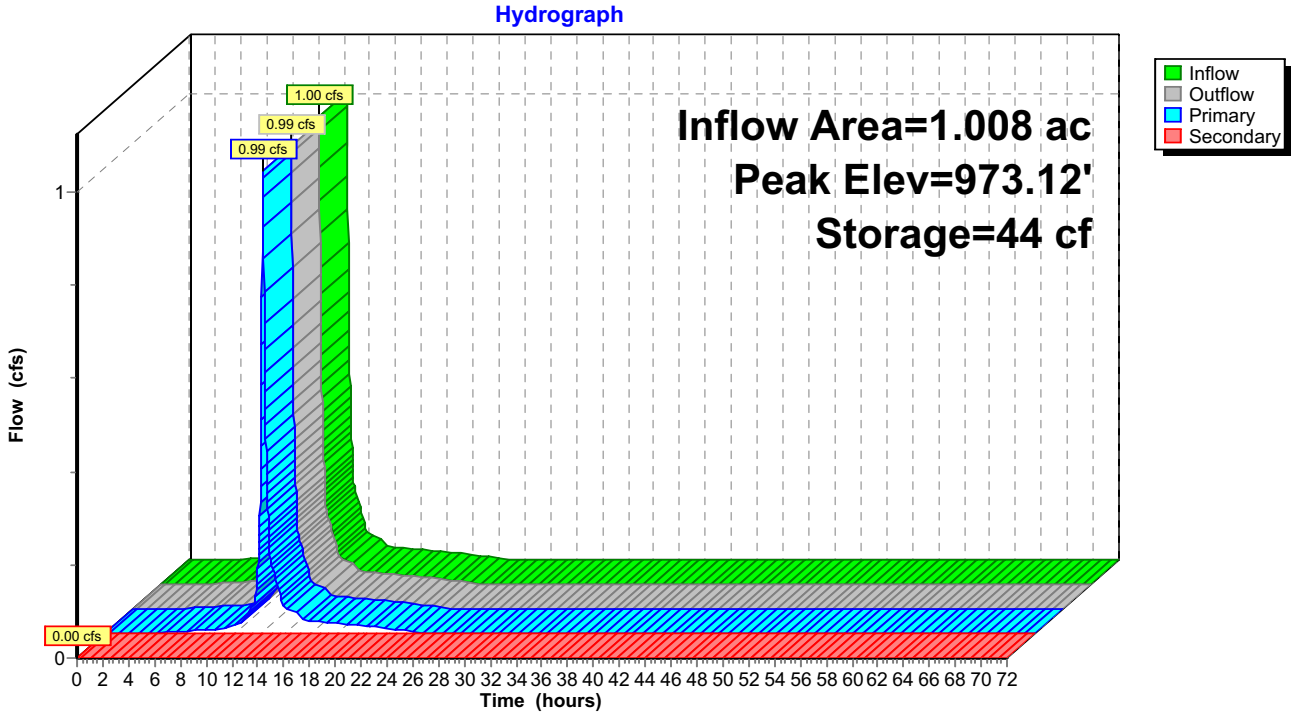
Pond CB_H6: CB_H6



Summary for Pond CB_H7: CB_H7

Inflow Area = 1.176 ac, 19.64% Impervious, Inflow Depth = 0.93" for 2yr-24hr event
Inflow = 1.31 cfs @ 12.21 hrs, Volume= 0.091 af
Outflow = 1.18 cfs @ 12.26 hrs, Volume= 0.091 af, Atten= 10%, Lag= 3.0 min
Primary = 1.18 cfs @ 12.26 hrs, Volume= 0.091 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 974.14' @ 12.26 hrs Surf.Area= 2,430 sf Storage= 347 cf

Plug-Flow detention time= 14.3 min calculated for 0.091 af (100% of inflow)
Center-of-Mass det. time= 12.0 min (814.6 - 802.6)

Volume	Invert	Avail.Storage	Storage Description
#1	973.99'	4,872 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

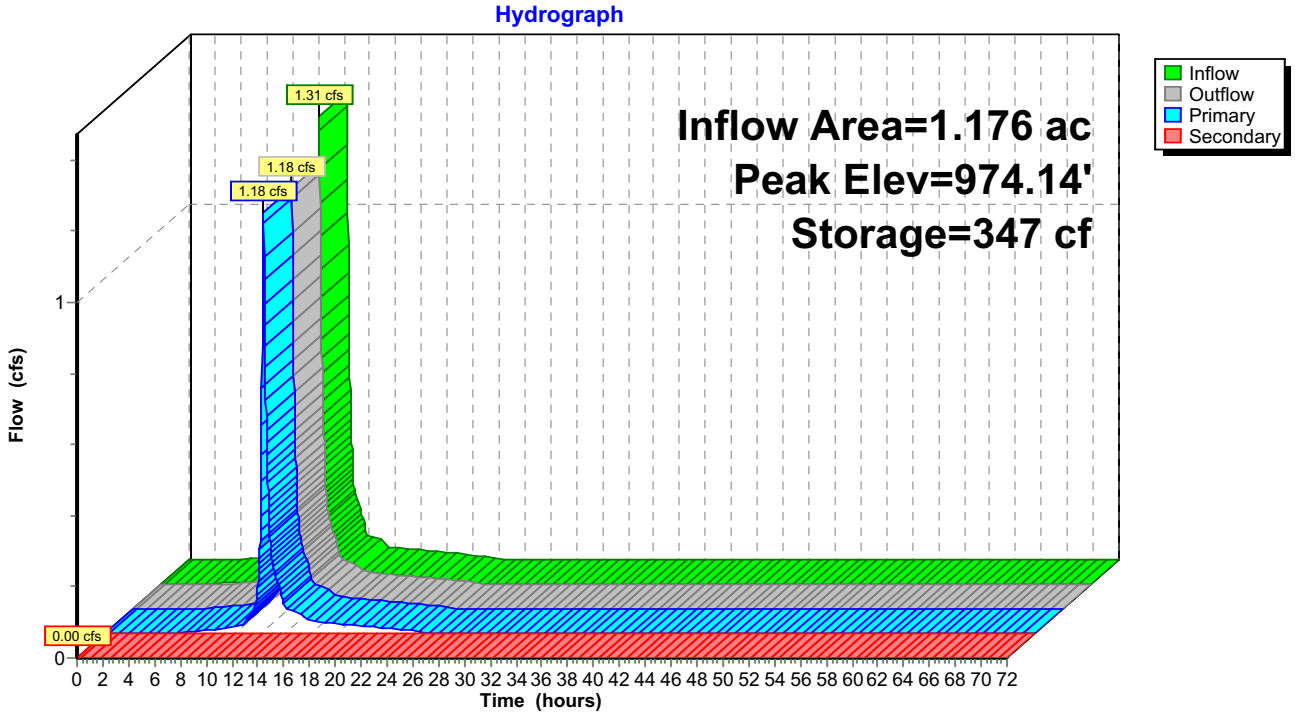
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
973.99	50	0	0
974.00	2,430	12	12
976.00	2,430	4,860	4,872

Device	Routing	Invert	Outlet Devices
#1	Primary	974.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	975.00'	**5.0' 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=1.18 cfs @ 12.26 hrs HW=974.14' TW=967.68' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.18 cfs @ 1.21 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.99' TW=973.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_H7: CB_H7



Summary for Pond CB_I7: CB_I7

Inflow Area = 1.268 ac, 17.51% Impervious, Inflow Depth = 1.14" for 2yr-24hr event
Inflow = 1.92 cfs @ 12.20 hrs, Volume= 0.121 af
Outflow = 1.91 cfs @ 12.21 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.5 min
Primary = 1.91 cfs @ 12.21 hrs, Volume= 0.121 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 985.19' @ 12.21 hrs Surf.Area= 401 sf Storage= 43 cf

Plug-Flow detention time= 0.4 min calculated for 0.121 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (807.3 - 807.0)

Volume	Invert	Avail.Storage	Storage Description
#1	985.00'	11,205 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

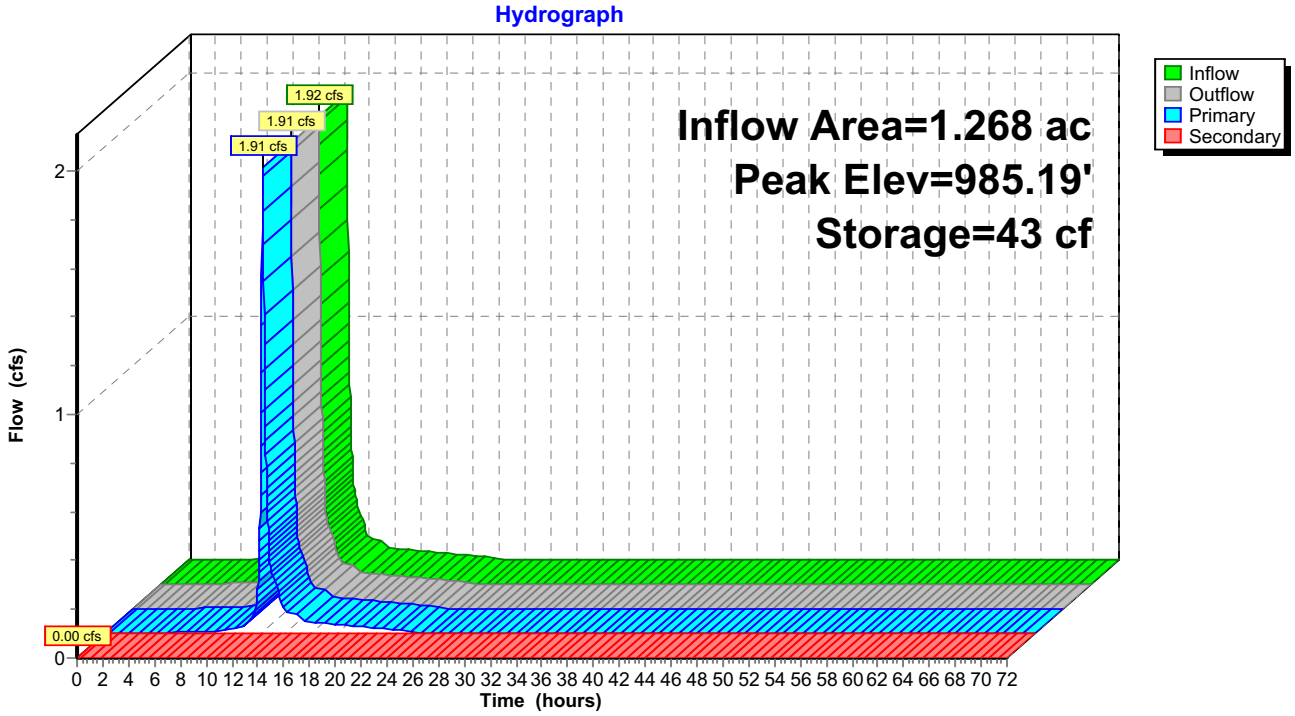
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
985.00	50	0	0
986.00	1,900	975	975
988.00	8,330	10,230	11,205

Device	Routing	Invert	Outlet Devices
#1	Primary	985.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	987.90'	**5.0' 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=1.90 cfs @ 12.21 hrs HW=985.19' TW=969.68' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.90 cfs @ 1.42 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=985.00' TW=0.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_I7: CB_I7



Summary for Pond CB_I8: CB_I8

Inflow Area = 1.173 ac, 25.23% Impervious, Inflow Depth = 1.28" for 2yr-24hr event
Inflow = 1.98 cfs @ 12.20 hrs, Volume= 0.126 af
Outflow = 1.98 cfs @ 12.21 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.2 min
Primary = 1.98 cfs @ 12.21 hrs, Volume= 0.126 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 987.19' @ 12.21 hrs Surf.Area= 201 sf Storage= 24 cf

Plug-Flow detention time= 0.3 min calculated for 0.125 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (798.1 - 797.8)

Volume	Invert	Avail.Storage	Storage Description
#1	987.00'	3,105 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

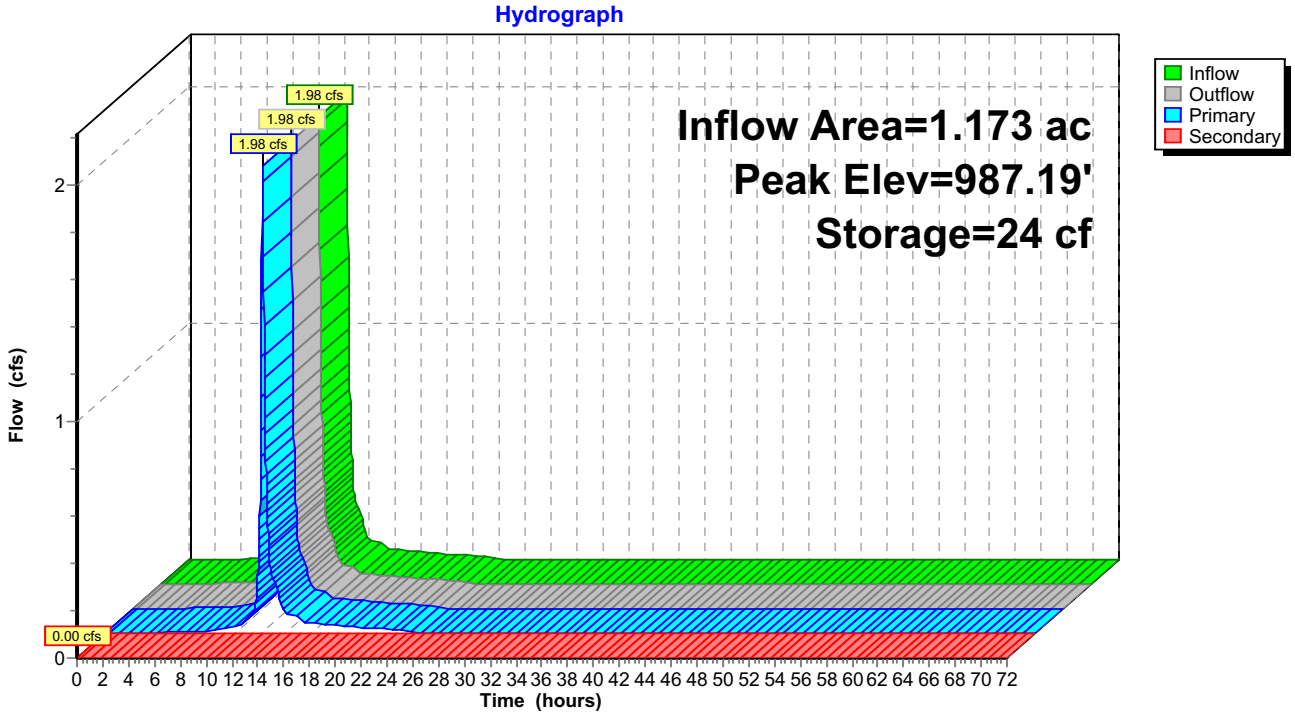
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
987.00	50	0	0
988.00	830	440	440
989.00	1,500	1,165	1,605
990.00	1,500	1,500	3,105

Device	Routing	Invert	Outlet Devices
#1	Primary	987.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.00'	**5.0' 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=1.97 cfs @ 12.21 hrs HW=987.19' TW=969.67' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 1.97 cfs @ 1.44 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=987.00' TW=985.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_I8: CB_I8



Summary for Pond CB_I9: CB_I9

Inflow Area = 0.256 ac, 27.73% Impervious, Inflow Depth = 1.33" for 2yr-24hr event
Inflow = 0.45 cfs @ 12.20 hrs, Volume= 0.028 af
Outflow = 0.45 cfs @ 12.20 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.2 min
Primary = 0.45 cfs @ 12.20 hrs, Volume= 0.028 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.07' @ 12.20 hrs Surf.Area= 86 sf Storage= 5 cf

Plug-Flow detention time= 0.3 min calculated for 0.028 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (795.6 - 795.2)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	1,818 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

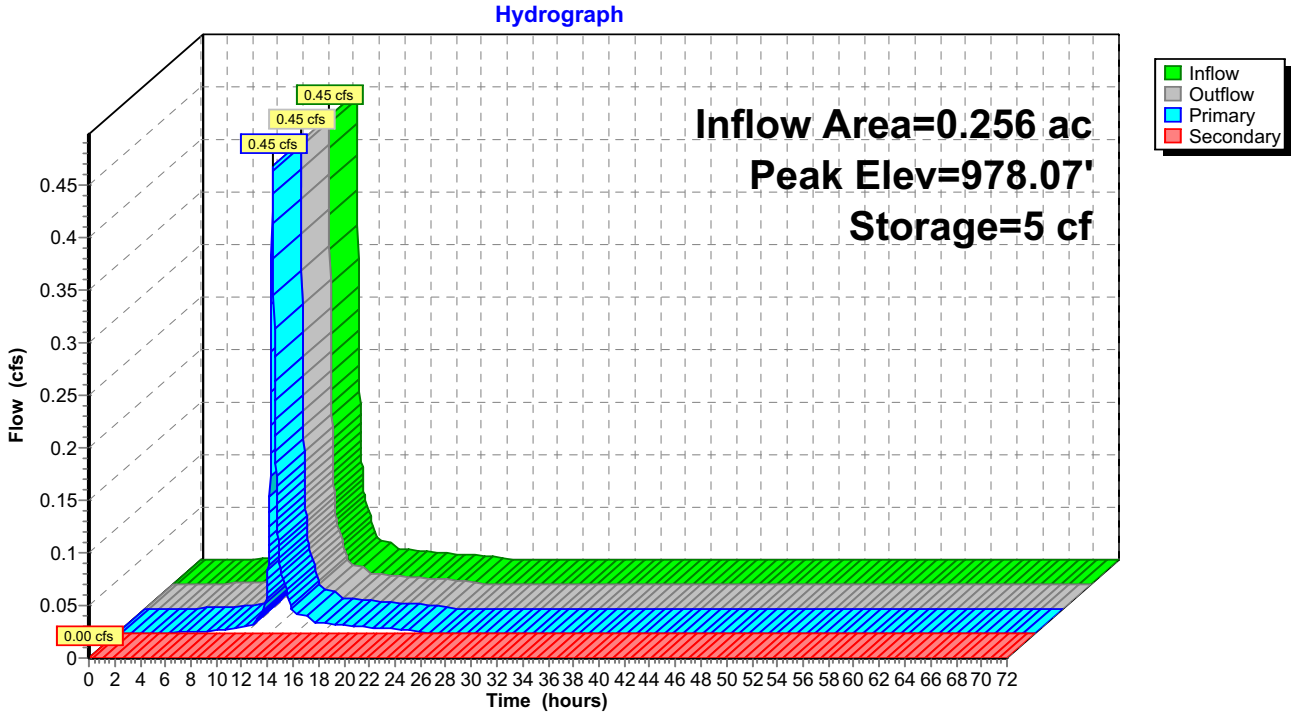
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
978.50	300	88	88
980.00	300	450	538
984.00	340	1,280	1,818

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	978.50'	**3.0' 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=0.44 cfs @ 12.20 hrs HW=978.07' TW=970.39' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 0.44 cfs @ 0.88 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=969.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_I9: CB_I9



Summary for Pond CB_J3: CB_J3

Inflow Area = 1.496 ac, 20.32% Impervious, Inflow Depth = 1.20" for 2yr-24hr event
Inflow = 2.36 cfs @ 12.20 hrs, Volume= 0.149 af
Outflow = 2.35 cfs @ 12.21 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.3 min
Primary = 2.35 cfs @ 12.21 hrs, Volume= 0.149 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 991.22' @ 12.21 hrs Surf.Area= 323 sf Storage= 41 cf

Plug-Flow detention time= 0.3 min calculated for 0.149 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (803.7 - 803.4)

Volume	Invert	Avail.Storage	Storage Description
#1	991.00'	4,575 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
991.00	50	0	0
992.00	1,300	675	675
993.00	1,300	1,300	1,975
995.00	1,300	2,600	4,575

Device	Routing	Invert	Outlet Devices
#1	Primary	991.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	992.00'	**5.0' 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=2.34 cfs @ 12.21 hrs HW=991.22' TW=973.72' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 2.34 cfs @ 1.52 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=991.00' TW=973.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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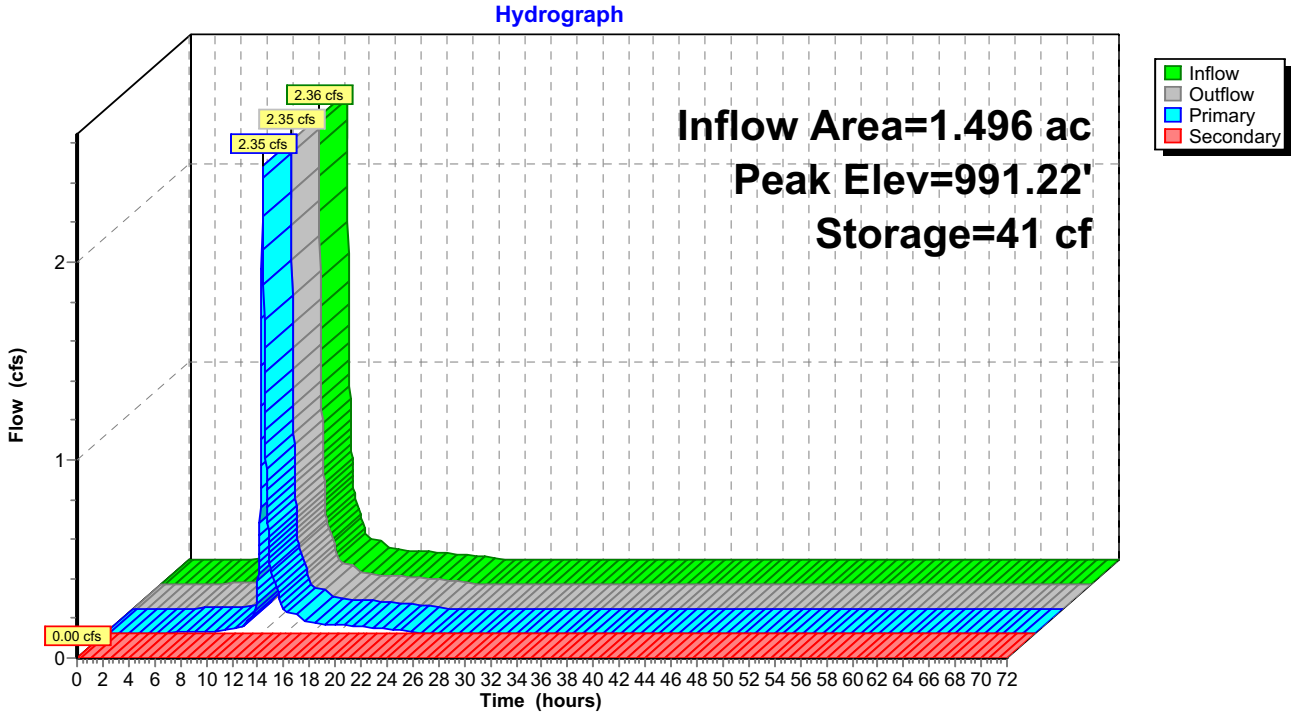
Pond CB_J3: CB_J3



Summary for Pond CB_J4: CB_J4

Inflow Area = 0.310 ac, 0.00% Impervious, Inflow Depth = 0.83" for 2yr-24hr event
Inflow = 0.35 cfs @ 12.21 hrs, Volume= 0.021 af
Outflow = 0.35 cfs @ 12.22 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.3 min
Primary = 0.35 cfs @ 12.22 hrs, Volume= 0.021 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.06' @ 12.22 hrs Surf.Area= 122 sf Storage= 5 cf

Plug-Flow detention time= 0.4 min calculated for 0.021 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (839.7 - 839.3)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	4,130 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
995.50	1,819	1,402	1,402
997.00	1,819	2,729	4,130

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	995.50'	**5.0' 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=0.35 cfs @ 12.22 hrs HW=994.06' TW=973.74' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.35 cfs @ 0.81 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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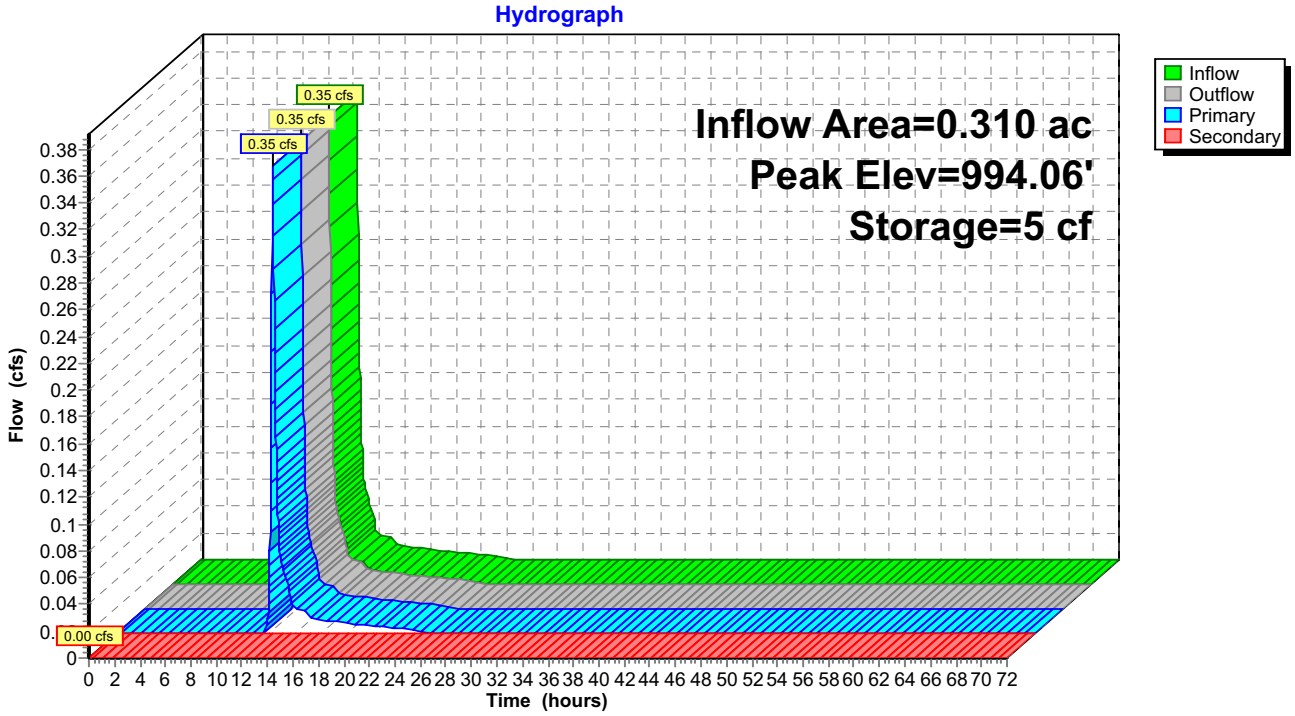
Pond CB_J4: CB_J4



Summary for Pond CB_J5: CB_J5

Inflow Area = 0.683 ac, 17.72% Impervious, Inflow Depth = 1.15" for 2yr-24hr event
Inflow = 1.04 cfs @ 12.20 hrs, Volume= 0.065 af
Outflow = 1.04 cfs @ 12.21 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.3 min
Primary = 1.04 cfs @ 12.21 hrs, Volume= 0.065 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 997.13' @ 12.21 hrs Surf.Area= 188 sf Storage= 15 cf

Plug-Flow detention time= 0.3 min calculated for 0.065 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (807.0 - 806.7)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	5,728 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

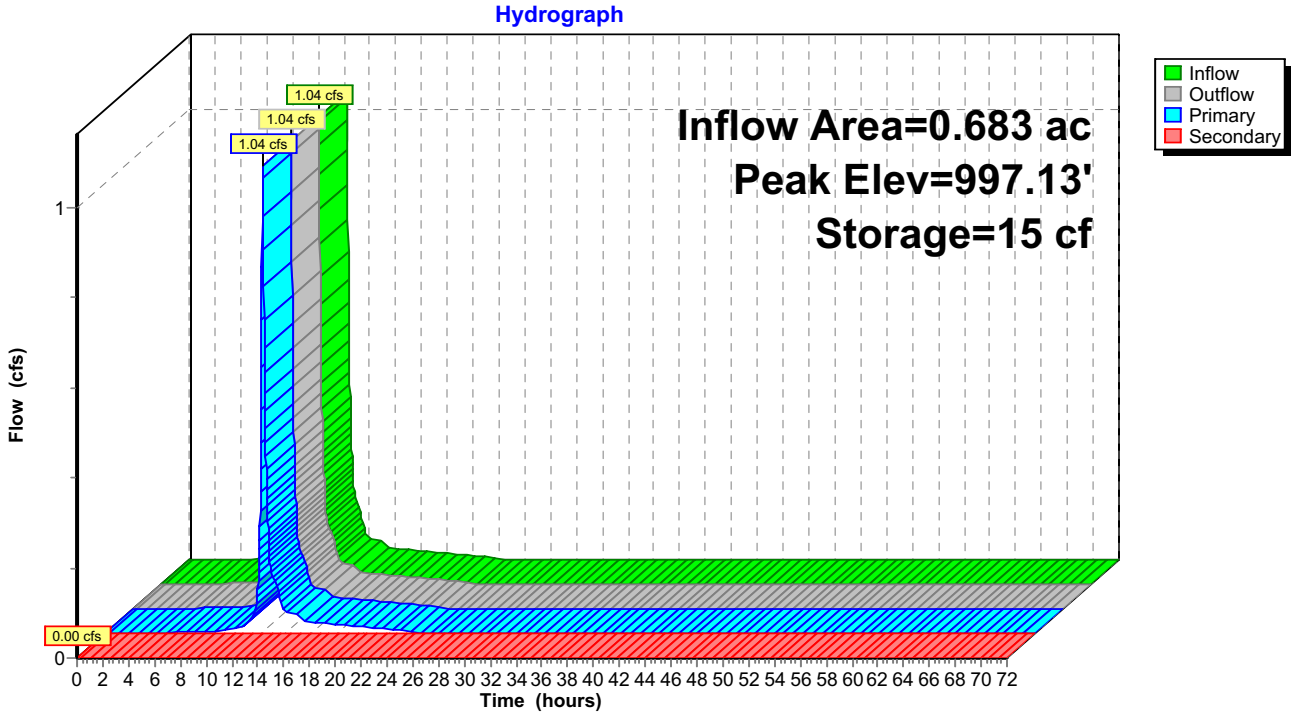
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	50	0	0
998.00	1,140	595	595
998.50	2,770	978	1,573
1,000.00	2,770	4,155	5,728

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.50'	**5.0' 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=1.03 cfs @ 12.21 hrs HW=997.13' TW=973.72' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 1.03 cfs @ 1.16 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=997.00' TW=994.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_J5: CB_J5



Summary for Pond CB_L10: CB_L10

Inflow Area = 1.158 ac, 17.53% Impervious, Inflow Depth = 1.14" for 2yr-24hr event
Inflow = 1.75 cfs @ 12.20 hrs, Volume= 0.110 af
Outflow = 1.74 cfs @ 12.22 hrs, Volume= 0.110 af, Atten= 1%, Lag= 0.8 min
Primary = 1.74 cfs @ 12.22 hrs, Volume= 0.110 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 988.18' @ 12.22 hrs Surf.Area= 670 sf Storage= 123 cf

Plug-Flow detention time= 3.7 min calculated for 0.110 af (100% of inflow)
Center-of-Mass det. time= 3.0 min (810.0 - 807.0)

Volume	Invert	Avail.Storage	Storage Description
#1	987.99'	1,344 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
987.99	50	0	0
988.00	670	4	4
990.00	670	1,340	1,344

Device	Routing	Invert	Outlet Devices
#1	Primary	988.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.00'	**5.0' 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=1.74 cfs @ 12.22 hrs HW=988.18' TW=968.55' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 1.74 cfs @ 1.38 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=987.99' TW=982.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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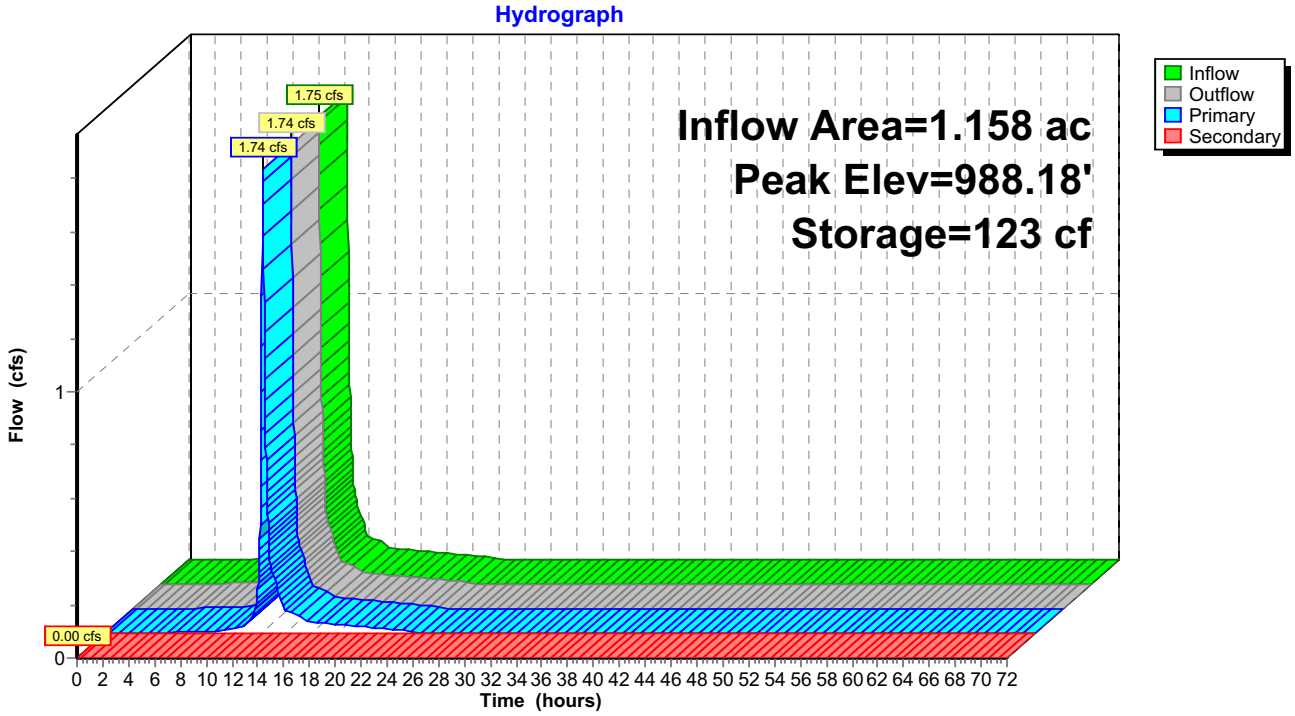
Pond CB_L10: CB_L10



Summary for Pond CB_L4: CB_L4

Inflow Area = 0.167 ac, 20.96% Impervious, Inflow Depth = 1.19" for 2yr-24hr event
Inflow = 0.26 cfs @ 12.20 hrs, Volume= 0.017 af
Outflow = 0.26 cfs @ 12.21 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.3 min
Primary = 0.26 cfs @ 12.21 hrs, Volume= 0.017 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.05' @ 12.21 hrs Surf.Area= 120 sf Storage= 4 cf

Plug-Flow detention time= 0.4 min calculated for 0.017 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (803.0 - 802.5)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	1,325 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
978.50	750	200	200
980.00	750	1,125	1,325

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	978.50'	**10.0' 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=0.26 cfs @ 12.21 hrs HW=978.05' TW=968.52' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.26 cfs @ 0.73 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=967.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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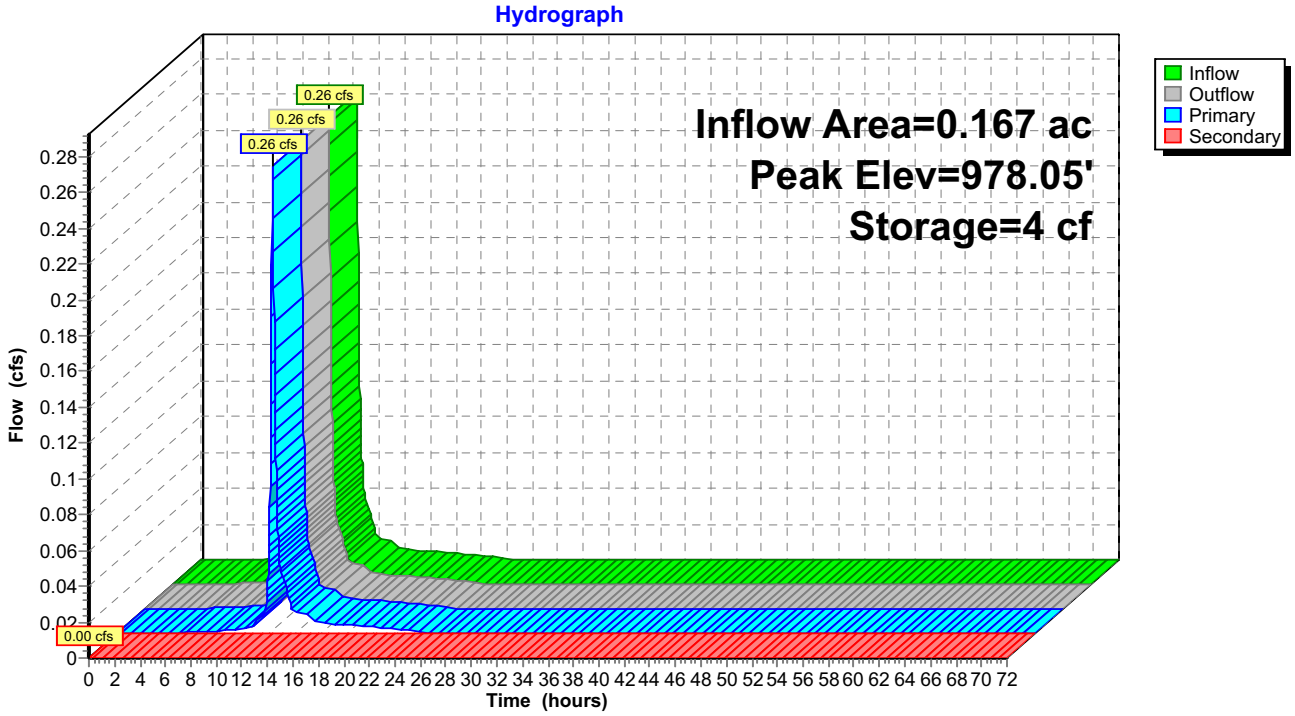
Pond CB_L4: CB_L4



Summary for Pond CB_L5: CB_L5

Inflow Area = 0.763 ac, 22.02% Impervious, Inflow Depth = 1.83" for 2yr-24hr event
Inflow = 1.61 cfs @ 12.22 hrs, Volume= 0.116 af
Outflow = 1.61 cfs @ 12.22 hrs, Volume= 0.116 af, Atten= 0%, Lag= 0.3 min
Primary = 1.61 cfs @ 12.22 hrs, Volume= 0.116 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 977.67' @ 12.22 hrs Surf.Area= 277 sf Storage= 28 cf

Plug-Flow detention time= 0.3 min calculated for 0.116 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (809.1 - 808.8)

Volume	Invert	Avail.Storage	Storage Description
#1	977.50'	6,613 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
977.50	50	0	0
978.00	720	193	193
980.00	5,700	6,420	6,613

Device	Routing	Invert	Outlet Devices
#1	Primary	977.50'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.90'	**5.0' 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=1.61 cfs @ 12.22 hrs HW=977.67' TW=968.57' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.61 cfs @ 1.34 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=977.50' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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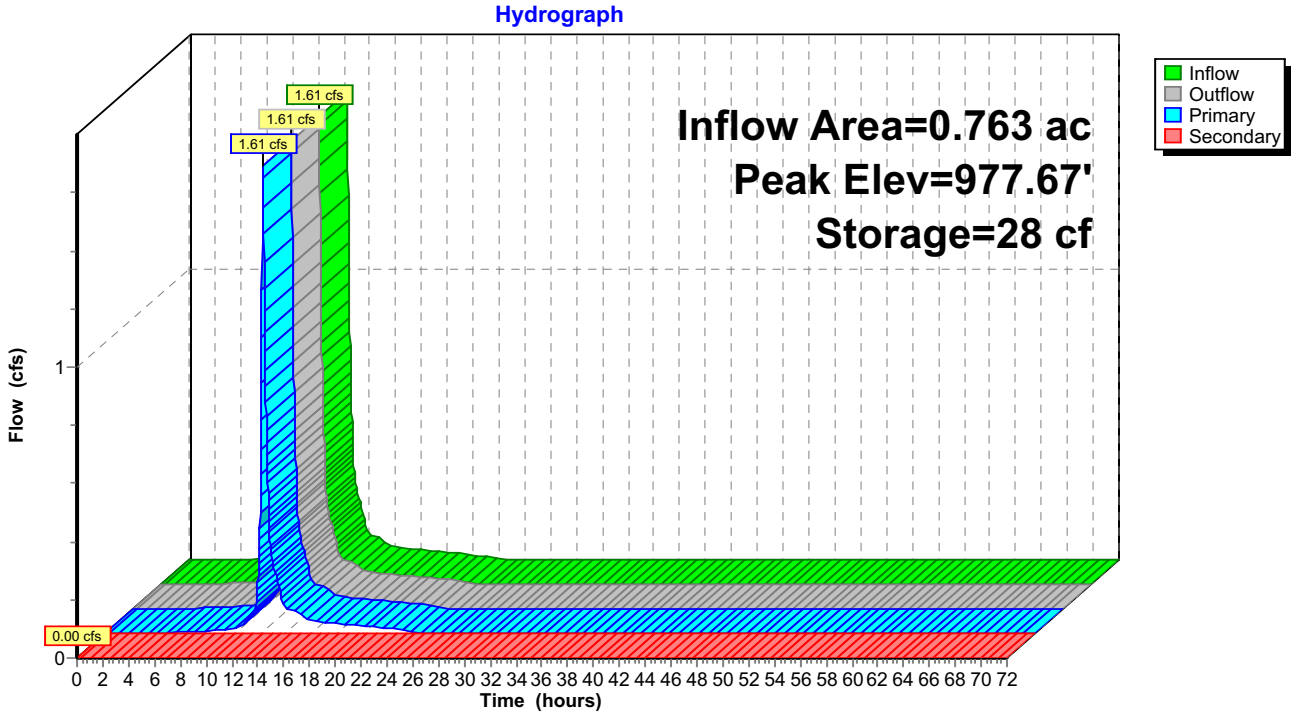
Pond CB_L5: CB_L5



Summary for Pond CB_L6: CB_L6

Inflow Area = 1.091 ac, 19.98% Impervious, Inflow Depth = 1.19" for 2yr-24hr event
Inflow = 1.71 cfs @ 12.20 hrs, Volume= 0.108 af
Outflow = 1.30 cfs @ 12.29 hrs, Volume= 0.108 af, Atten= 24%, Lag= 5.2 min
Primary = 0.84 cfs @ 12.29 hrs, Volume= 0.070 af
Secondary = 0.46 cfs @ 12.29 hrs, Volume= 0.038 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.11' @ 12.29 hrs Surf.Area= 829 sf Storage= 740 cf

Plug-Flow detention time= 20.3 min calculated for 0.108 af (100% of inflow)
Center-of-Mass det. time= 20.1 min (823.9 - 803.8)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	13,500 cf	**Custom Stage Data (Prismatic)** Listed below

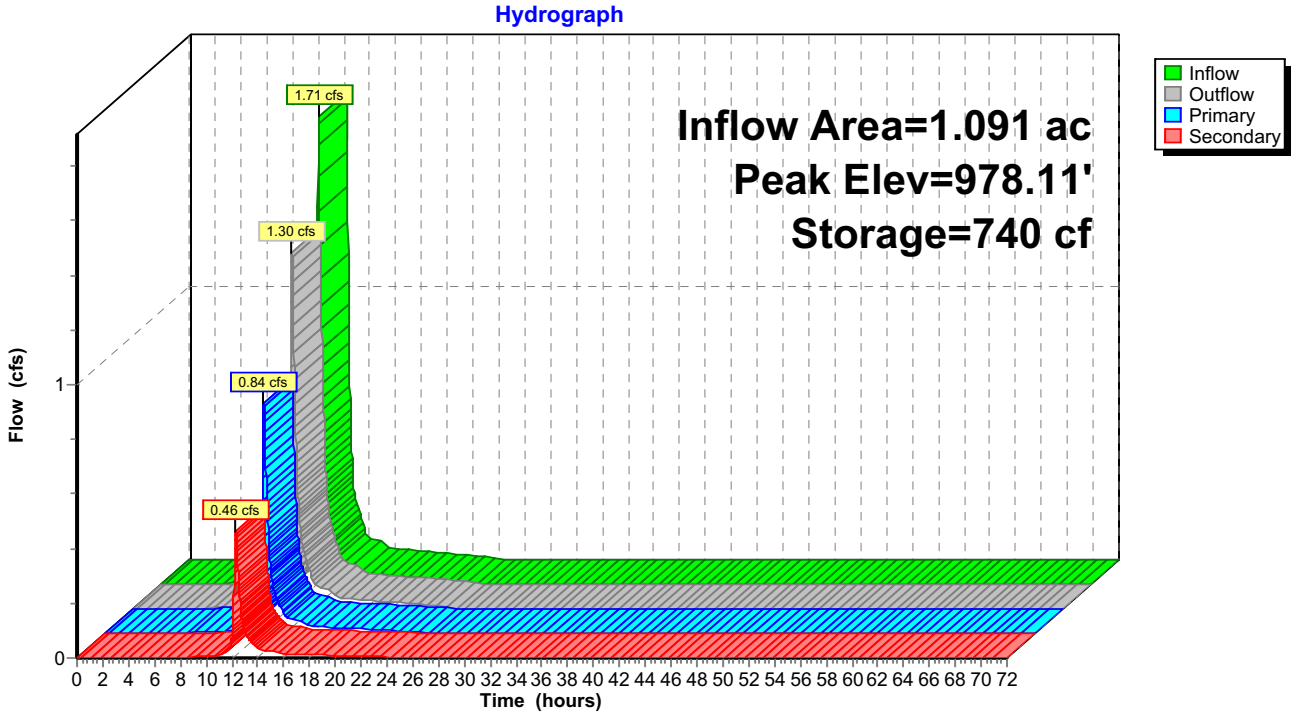
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	100	0	0
980.00	13,400	13,500	13,500

Device	Routing	Invert	Outlet Devices
#1	Secondary	978.00'	**5.0' 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
#2	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.84 cfs @ 12.29 hrs HW=978.11' TW=968.74' (Dynamic Tailwater)
↑—**2=Grate** (Weir Controls 0.84 cfs @ 1.08 fps)

Secondary OutFlow Max=0.46 cfs @ 12.29 hrs HW=978.11' TW=977.66' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 0.46 cfs @ 0.84 fps)

Pond CB_L6: CB_L6



Summary for Pond CB_L7: CB_L7

Inflow Area = 0.759 ac, 21.21% Impervious, Inflow Depth = 1.21" for 2yr-24hr event
Inflow = 1.21 cfs @ 12.20 hrs, Volume= 0.077 af
Outflow = 1.21 cfs @ 12.21 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.3 min
Primary = 1.21 cfs @ 12.21 hrs, Volume= 0.077 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 979.14' @ 12.21 hrs Surf.Area= 236 sf Storage= 20 cf

Plug-Flow detention time= 0.3 min calculated for 0.077 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (802.6 - 802.3)

Volume	Invert	Avail.Storage	Storage Description
#1	979.00'	715 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
979.00	50	0	0
980.00	1,380	715	715

Device	Routing	Invert	Outlet Devices
#1	Primary	979.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.90'	**3.0' 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=1.20 cfs @ 12.21 hrs HW=979.14' TW=968.52' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 1.20 cfs @ 1.22 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=979.00' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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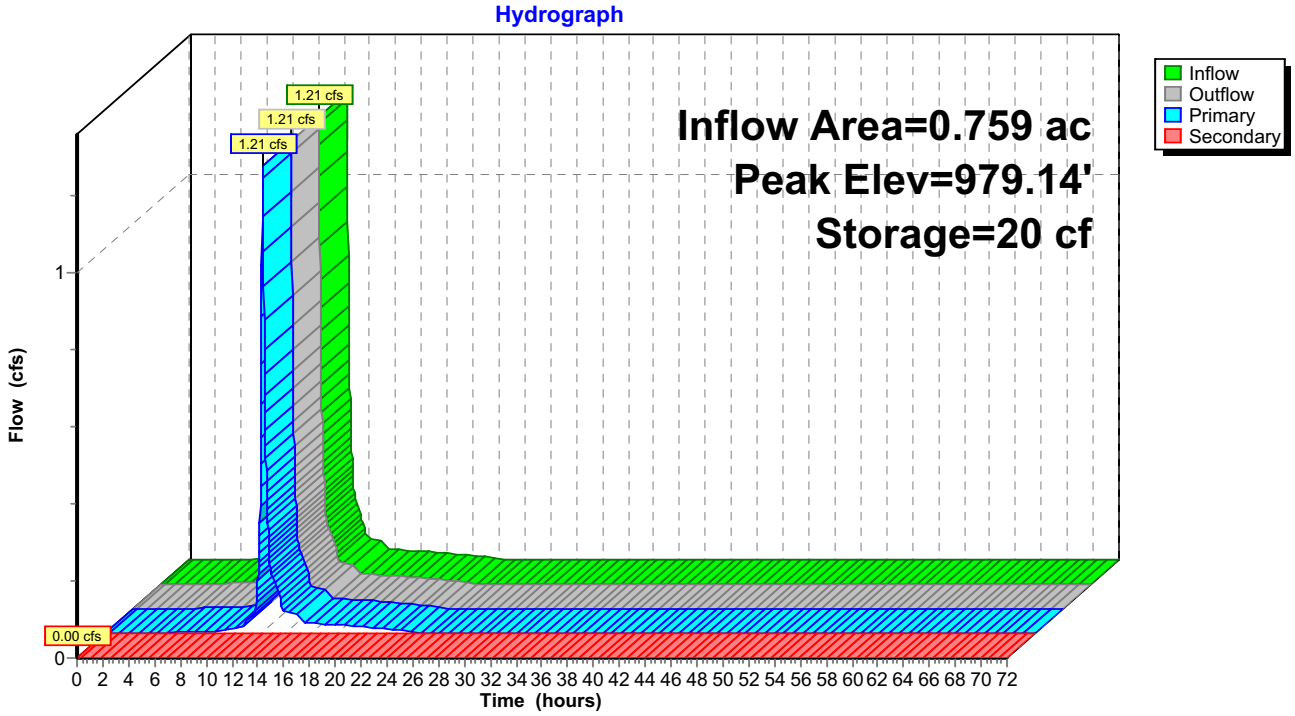
Pond CB_L7: CB_L7



Summary for Pond CB_L8: CB_L8

Inflow Area = 1.441 ac, 22.07% Impervious, Inflow Depth = 1.18" for 2yr-24hr event
Inflow = 2.23 cfs @ 12.20 hrs, Volume= 0.141 af
Outflow = 2.18 cfs @ 12.22 hrs, Volume= 0.141 af, Atten= 2%, Lag= 1.3 min
Primary = 2.18 cfs @ 12.22 hrs, Volume= 0.141 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 980.21' @ 12.22 hrs Surf.Area= 1,227 sf Storage= 132 cf

Plug-Flow detention time= 0.7 min calculated for 0.141 af (100% of inflow)
Center-of-Mass det. time= 0.7 min (800.4 - 799.7)

Volume	Invert	Avail.Storage	Storage Description
#1	980.00'	11,450 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

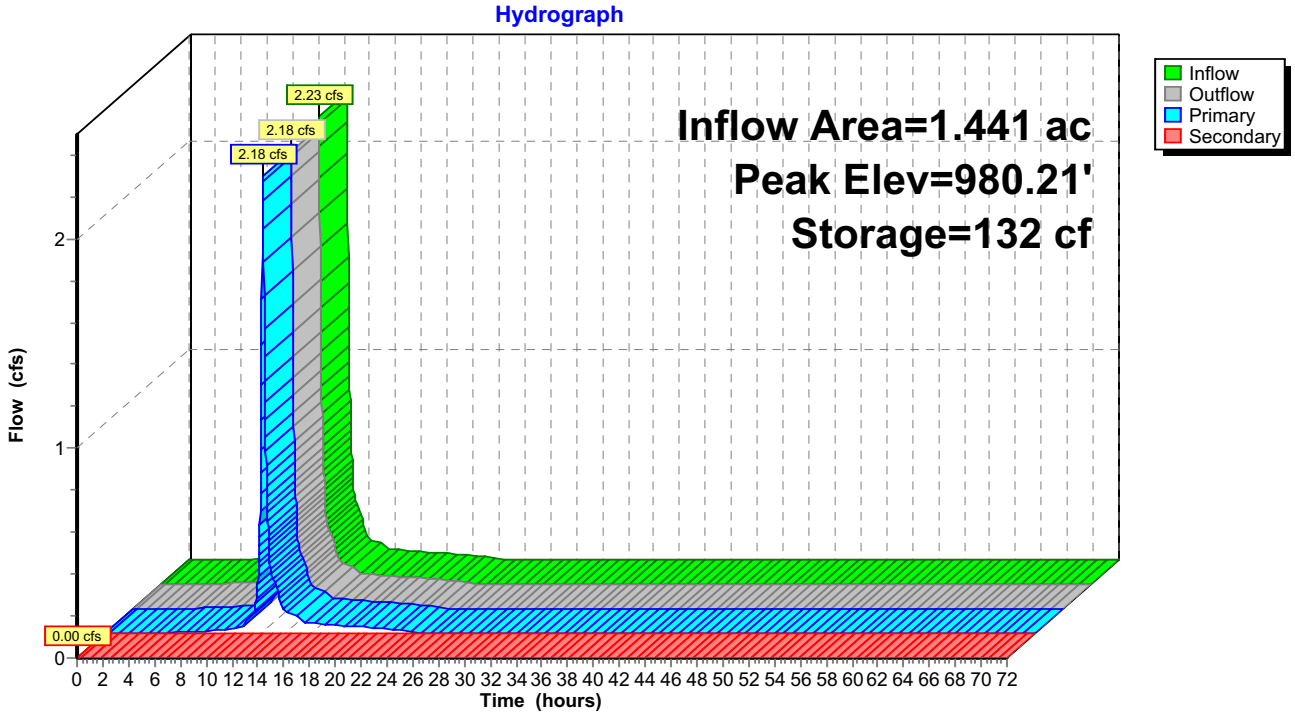
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
980.00	50	0	0
982.00	11,400	11,450	11,450

Device	Routing	Invert	Outlet Devices
#1	Primary	980.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	981.90'	**5.0' 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=2.18 cfs @ 12.22 hrs HW=980.21' TW=968.57' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.18 cfs @ 1.49 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=980.00' TW=979.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_L8: CB_L8



Summary for Pond CB_L9: CB_L9

Inflow Area = 0.971 ac, 21.11% Impervious, Inflow Depth = 1.21" for 2yr-24hr event
Inflow = 1.54 cfs @ 12.20 hrs, Volume= 0.098 af
Outflow = 1.54 cfs @ 12.21 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.6 min
Primary = 1.54 cfs @ 12.21 hrs, Volume= 0.098 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 982.16' @ 12.21 hrs Surf.Area= 465 sf Storage= 46 cf

Plug-Flow detention time= 1.0 min calculated for 0.098 af (100% of inflow)
Center-of-Mass det. time= 0.6 min (802.9 - 802.4)

Volume	Invert	Avail.Storage	Storage Description
#1	982.00'	7,815 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
982.00	100	0	0
983.50	3,440	2,655	2,655
985.00	3,440	5,160	7,815

Device	Routing	Invert	Outlet Devices
#1	Primary	982.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	983.50'	**3.0' 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=1.53 cfs @ 12.21 hrs HW=982.16' TW=968.53' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 1.53 cfs @ 1.32 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=982.00' TW=980.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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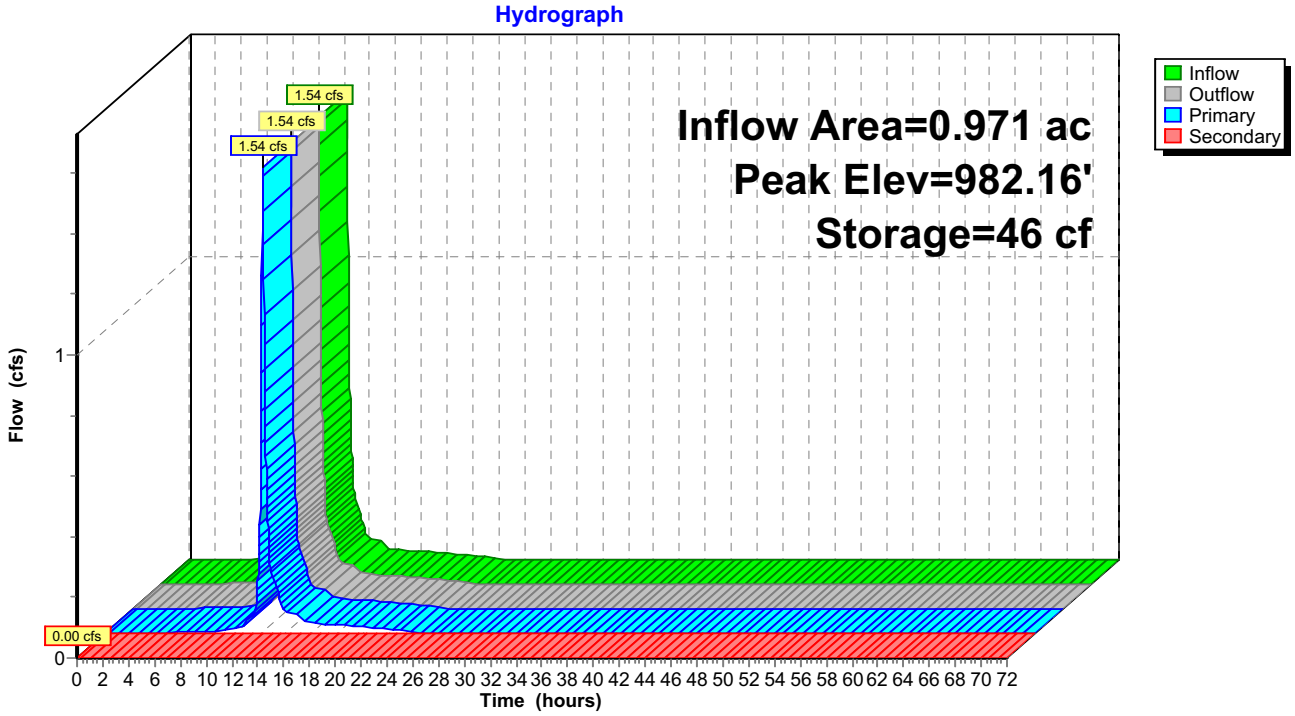
Pond CB_L9: CB_L9



Summary for Pond CB_O10: CB_O10

Inflow Area = 0.609 ac, 15.44% Impervious, Inflow Depth = 1.11" for 2yr-24hr event
Inflow = 0.89 cfs @ 12.21 hrs, Volume= 0.056 af
Outflow = 0.89 cfs @ 12.21 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.5 min
Primary = 0.89 cfs @ 12.21 hrs, Volume= 0.056 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.11' @ 12.21 hrs Surf.Area= 346 sf Storage= 23 cf

Plug-Flow detention time= 0.4 min calculated for 0.056 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (810.3 - 809.8)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	25,530 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
980.00	5,240	5,290	5,290
982.00	15,000	20,240	25,530

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	980.00'	**5.0' 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=0.89 cfs @ 12.21 hrs HW=978.11' TW=968.54' (Dynamic Tailwater)
↑**1=Orifice/Grate** (Weir Controls 0.89 cfs @ 1.10 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=978.00' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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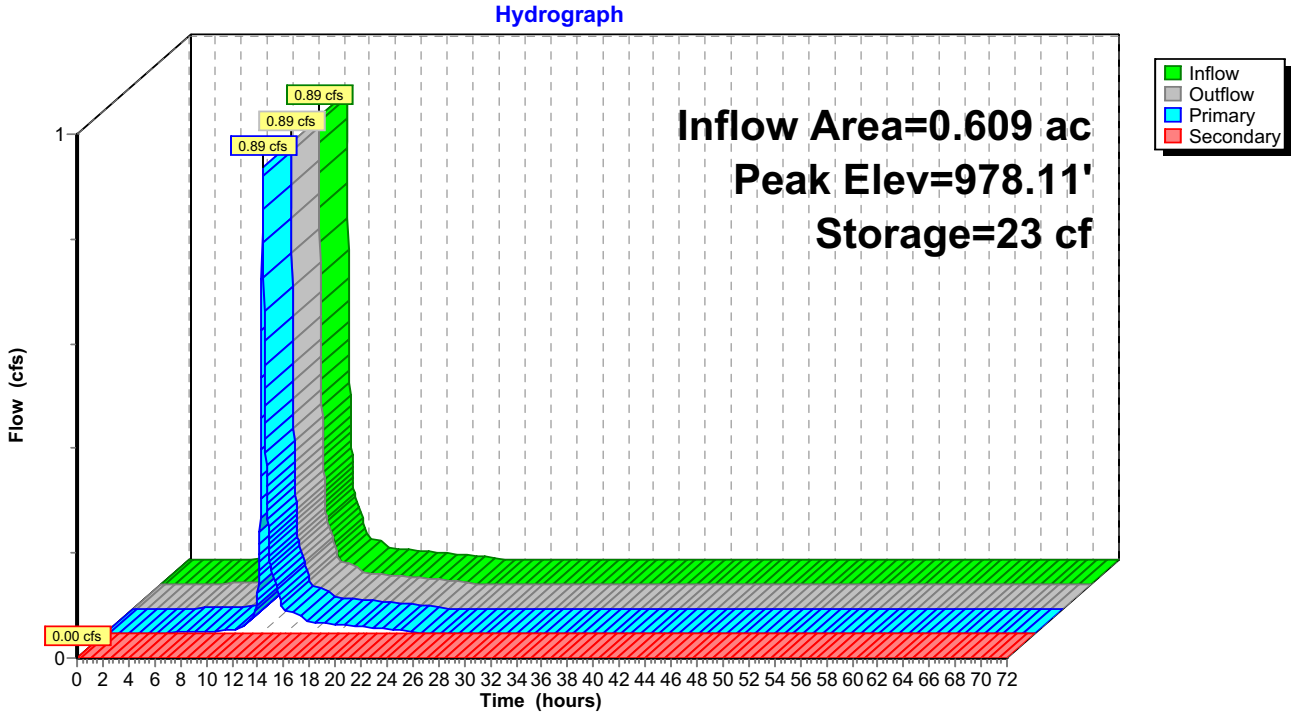
Pond CB_O10: CB_O10



Summary for Pond CB_O8: CB_O8

Inflow Area = 0.490 ac, 12.24% Impervious, Inflow Depth = 1.05" for 2yr-24hr event
Inflow = 0.68 cfs @ 12.21 hrs, Volume= 0.043 af
Outflow = 0.68 cfs @ 12.21 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.2 min
Primary = 0.68 cfs @ 12.21 hrs, Volume= 0.043 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 975.60' @ 12.21 hrs Surf.Area= 117 sf Storage= 8 cf

Plug-Flow detention time= 0.3 min calculated for 0.043 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (815.0 - 814.6)

Volume	Invert	Avail.Storage	Storage Description
#1	975.50'	913 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
975.50	50	0	0
976.00	400	113	113
978.00	400	800	913

Device	Routing	Invert	Outlet Devices
#1	Primary	975.50'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	976.00'	**4.0' 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=0.68 cfs @ 12.21 hrs HW=975.60' TW=968.52' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 0.68 cfs @ 1.01 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=975.50' TW=967.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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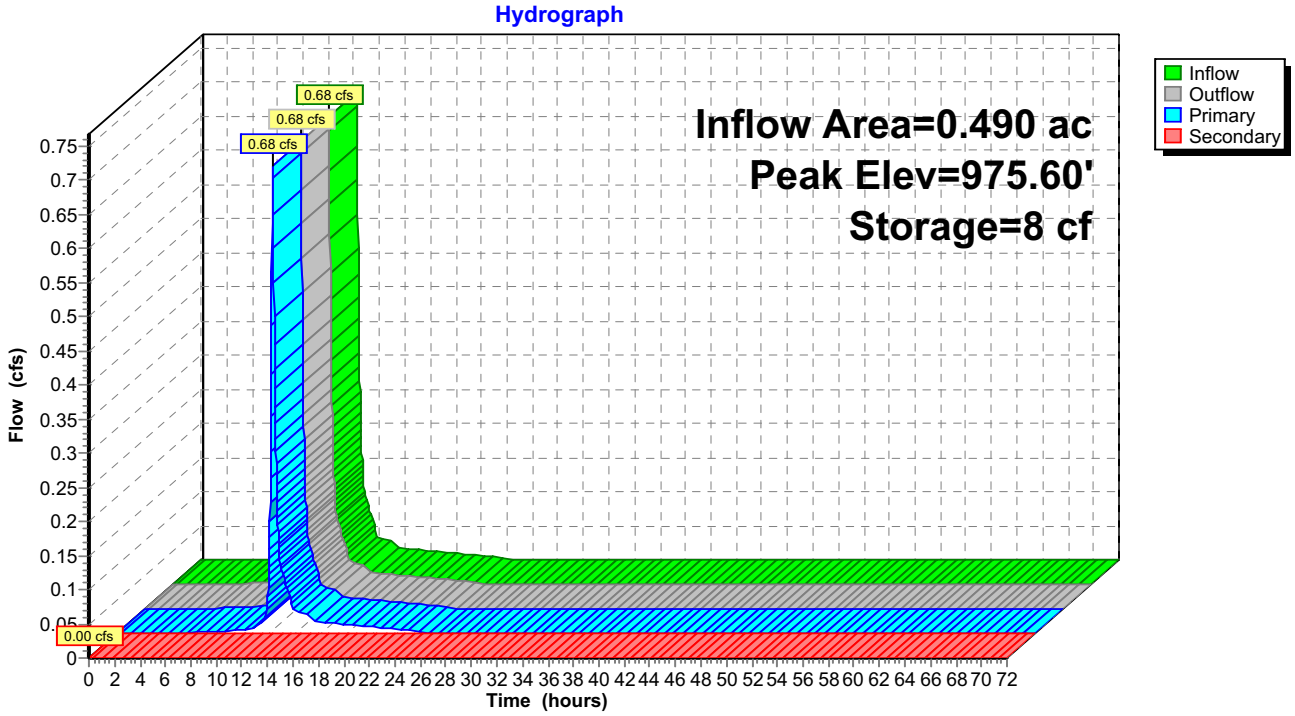
Pond CB_O8: CB_O8



Summary for Pond CB_O9: CB_O9

Inflow Area = 1.143 ac, 19.86% Impervious, Inflow Depth = 1.19" for 2yr-24hr event
Inflow = 1.79 cfs @ 12.20 hrs, Volume= 0.113 af
Outflow = 1.79 cfs @ 12.21 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.4 min
Primary = 1.79 cfs @ 12.21 hrs, Volume= 0.113 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.18' @ 12.21 hrs Surf.Area= 313 sf Storage= 33 cf

Plug-Flow detention time= 0.3 min calculated for 0.113 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (804.3 - 804.0)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	2,275 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
979.00	1,500	775	775
980.00	1,500	1,500	2,275

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.00'	**3.0' 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 @ 12.21 hrs HW=978.18' TW=968.52' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.78 cfs @ 1.39 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=975.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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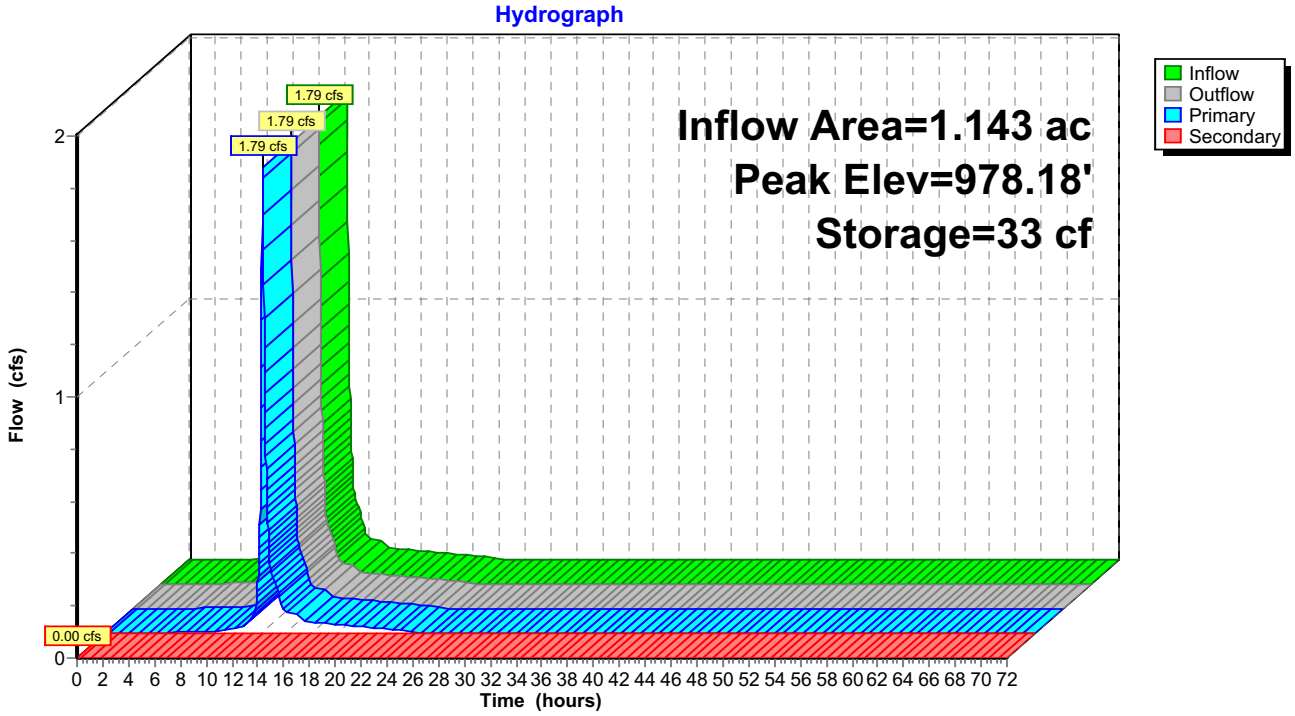
Pond CB_O9: CB_O9



Summary for Pond P1N: Pond 1N

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=175)

Inflow Area = 5.394 ac, 29.66% Impervious, Inflow Depth = 1.36" for 2yr-24hr event
Inflow = 9.50 cfs @ 12.20 hrs, Volume= 0.613 af
Outflow = 0.28 cfs @ 12.38 hrs, Volume= 0.110 af, Atten= 97%, Lag= 10.8 min
Primary = 0.28 cfs @ 12.38 hrs, Volume= 0.110 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.50' Surf.Area= 41,136 sf Storage= 169,437 cf
Peak Elev= 1,010.04' @ 19.39 hrs Surf.Area= 47,344 sf Storage= 193,106 cf (23,669 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 488.7 min (1,282.3 - 793.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	391,973 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

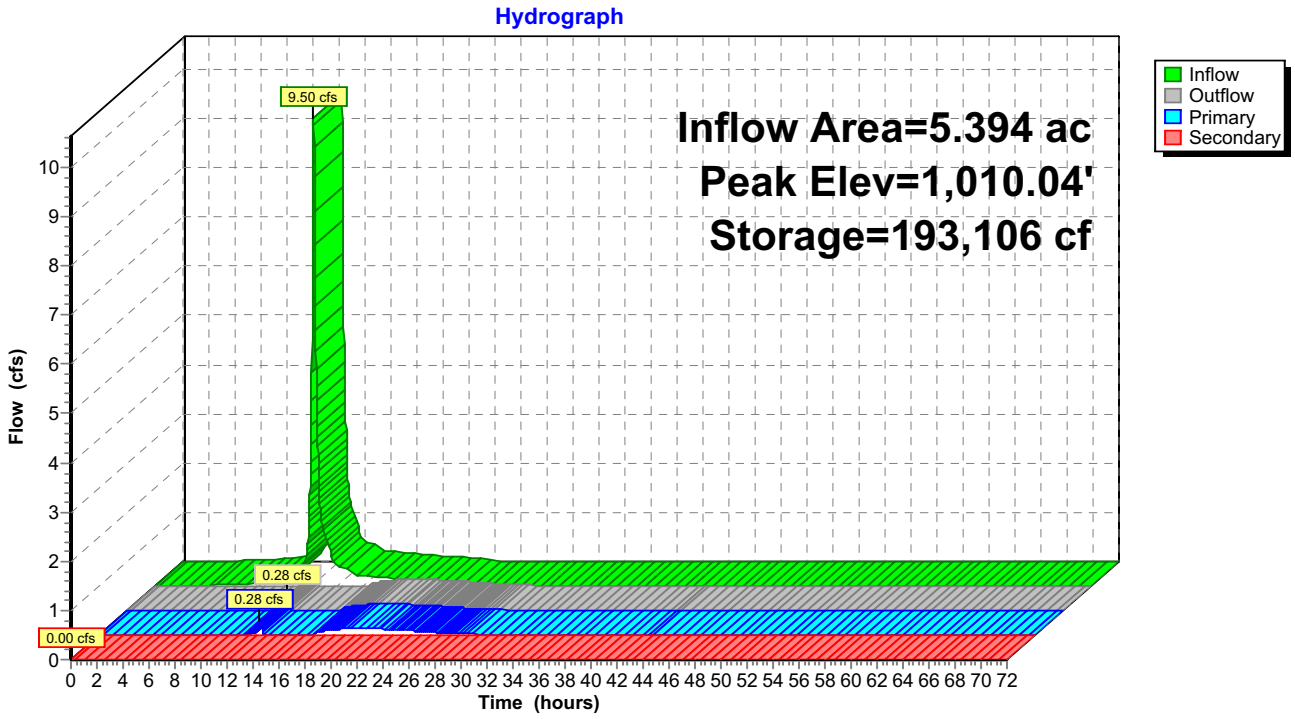
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	6,656	0	0
1,002.00	10,300	16,956	16,956
1,004.00	14,547	24,847	41,803
1,006.00	19,203	33,750	75,553
1,008.00	25,045	44,248	119,801
1,010.00	46,500	71,545	191,346
1,010.50	57,752	26,063	217,409
1,012.00	75,000	99,564	316,973
1,013.00	75,000	75,000	391,973

Device	Routing	Invert	Outlet Devices
#1	Primary	1,009.50'	**15.0" Round Main outlet (Structure 248 to 249)** L= 43.3' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 1,009.50' / 1,009.10' S= 0.0092 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf
#2	Device 1	1,010.80'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,007.00'	**15.0" Round low flow pipe** L= 30.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,006.50' / 1,007.00' S= -0.0163 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf
#4	Secondary	1,012.00'	**10.0' long x 2.0' breadth EOF** 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=0.26 cfs @ 12.38 hrs HW=1,009.82' TW=1,009.65' (Dynamic Tailwater)
└─**1=Main outlet (Structure 248 to 249)**(Outlet Controls 0.26 cfs @ 1.62 fps)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Passes 0.26 cfs of 2.40 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,009.50' TW=1,009.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

Pond P1N: Pond 1N



Summary for Pond P1S: Pond 1S

Inflow Area = 94.180 ac, 33.41% Impervious, Inflow Depth > 1.31" for 2yr-24hr event
Inflow = 44.79 cfs @ 12.22 hrs, Volume= 10.284 af
Outflow = 9.96 cfs @ 13.75 hrs, Volume= 10.028 af, Atten= 78%, Lag= 91.7 min
Primary = 9.96 cfs @ 13.75 hrs, Volume= 10.028 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 967.00' Surf.Area= 72,066 sf Storage= 246,162 cf
Peak Elev= 968.30' @ 13.75 hrs Surf.Area= 92,897 sf Storage= 354,112 cf (107,950 cf above start)

Plug-Flow detention time= 1,207.3 min calculated for 4.377 af (43% of inflow)
Center-of-Mass det. time= 220.1 min (1,407.2 - 1,187.1)

Volume	Invert	Avail.Storage	Storage Description
#1	960.00'	1,047,368 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

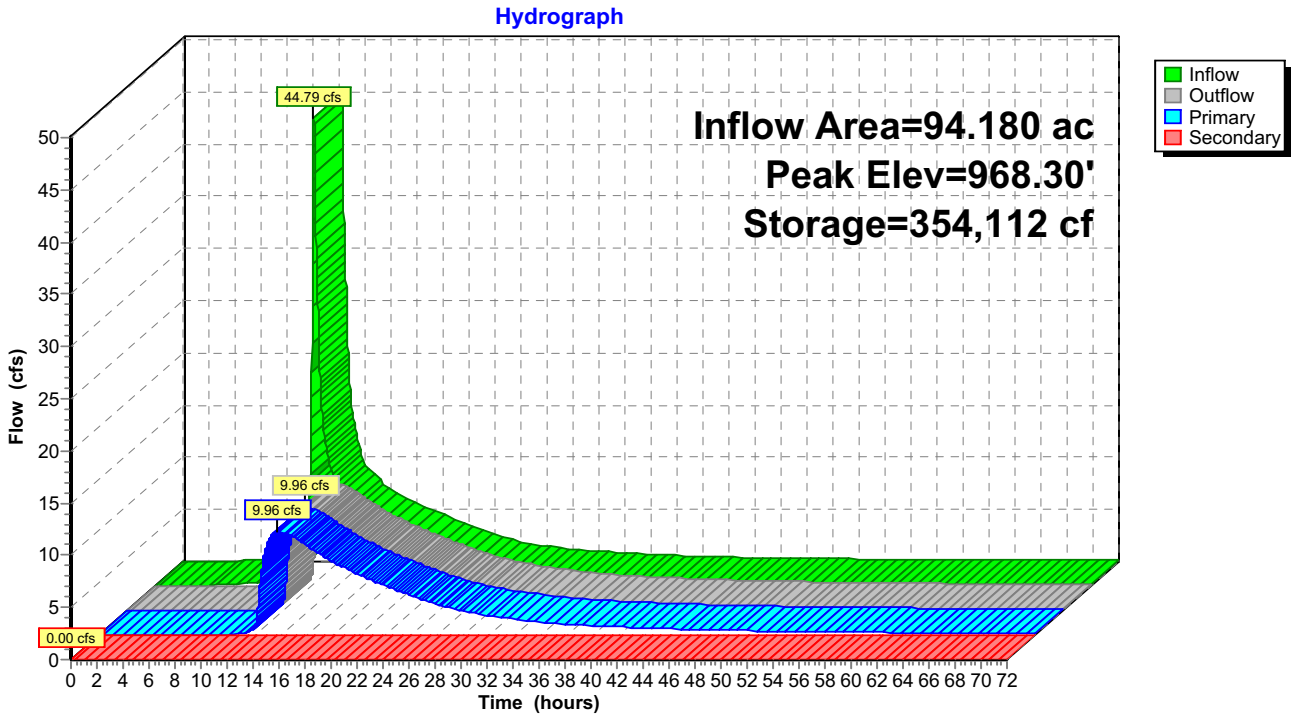
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
960.00	9,454	0	0
962.00	22,413	31,867	31,867
964.00	37,168	59,581	91,448
966.00	54,342	91,510	182,958
968.00	89,790	144,132	327,090
970.00	110,794	200,584	527,674
972.00	136,300	247,094	774,768
974.00	136,300	272,600	1,047,368

Device	Routing	Invert	Outlet Devices
#1	Primary	967.00'	**30.0" Round Main outlet (Structure 294 to 295)** L= 35.4' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 967.00' / 966.50' S= 0.0141 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 4.91 sf
#2	Device 1	971.00'	**48.0" Horiz. Structure 294 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	967.00'	**30.0" Round low flow pipe** L= 21.6' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 966.00' / 967.00' S= -0.0463 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 4.91 sf
#4	Secondary	971.00'	**10.0' long x 4.0' breadth EOF** 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 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=9.96 cfs @ 13.75 hrs HW=968.30' TW=0.00' (Dynamic Tailwater)
└─**1=Main outlet (Structure 294 to 295)**(Passes 9.96 cfs of 10.12 cfs potential flow)
  ├─**2=Structure 294 Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Inlet Controls 9.96 cfs @ 3.88 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=967.00' TW=0.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

Pond P1S: Pond 1S



Summary for Pond P2S: Pond 2S

Inflow Area = 19.486 ac, 39.59% Impervious, Inflow Depth > 1.53" for 2yr-24hr event
Inflow = 16.07 cfs @ 12.21 hrs, Volume= 2.479 af
Outflow = 6.99 cfs @ 12.70 hrs, Volume= 2.465 af, Atten= 56%, Lag= 29.5 min
Primary = 6.99 cfs @ 12.70 hrs, Volume= 2.465 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 969.00' Surf.Area= 18,607 sf Storage= 77,154 cf
Peak Elev= 970.03' @ 12.70 hrs Surf.Area= 22,710 sf Storage= 98,374 cf (21,220 cf above start)

Plug-Flow detention time= 802.5 min calculated for 0.694 af (28% of inflow)
Center-of-Mass det. time= 92.0 min (1,030.8 - 938.7)

Volume	Invert	Avail.Storage	Storage Description
#1	962.00'	200,412 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
962.00	6,074	0	0
964.00	8,571	14,645	14,645
966.00	11,401	19,972	34,617
968.00	14,555	25,956	60,573
970.00	22,658	37,213	97,786
972.00	26,656	49,314	147,100
974.00	26,656	53,312	200,412

Device	Routing	Invert	Outlet Devices
#1	Primary	969.00'	**24.0" Round Main outlet (Structure 251 to 252)** L= 32.8' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.00' / 967.90' S= 0.0335 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Device 1	972.00'	**48.0" Horiz. Structure 251 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	967.00'	**24.0" Round low flow pipe** L= 36.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 966.00' / 967.00' S= -0.0272 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#4	Secondary	972.00'	**8.0' long x 32.0' breadth EOF** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=6.99 cfs @ 12.70 hrs HW=970.03' TW=0.00' (Dynamic Tailwater)
↑**1=Main outlet (Structure 251 to 252)** (Inlet Controls 6.99 cfs @ 4.31 fps)
↑**2=Structure 251 Grate** (Controls 0.00 cfs)
3=low flow pipe (Passes 6.99 cfs of 15.32 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=969.00' TW=0.00' (Dynamic Tailwater)
↑**4=EOF** (Controls 0.00 cfs)

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Prepared by AE2S
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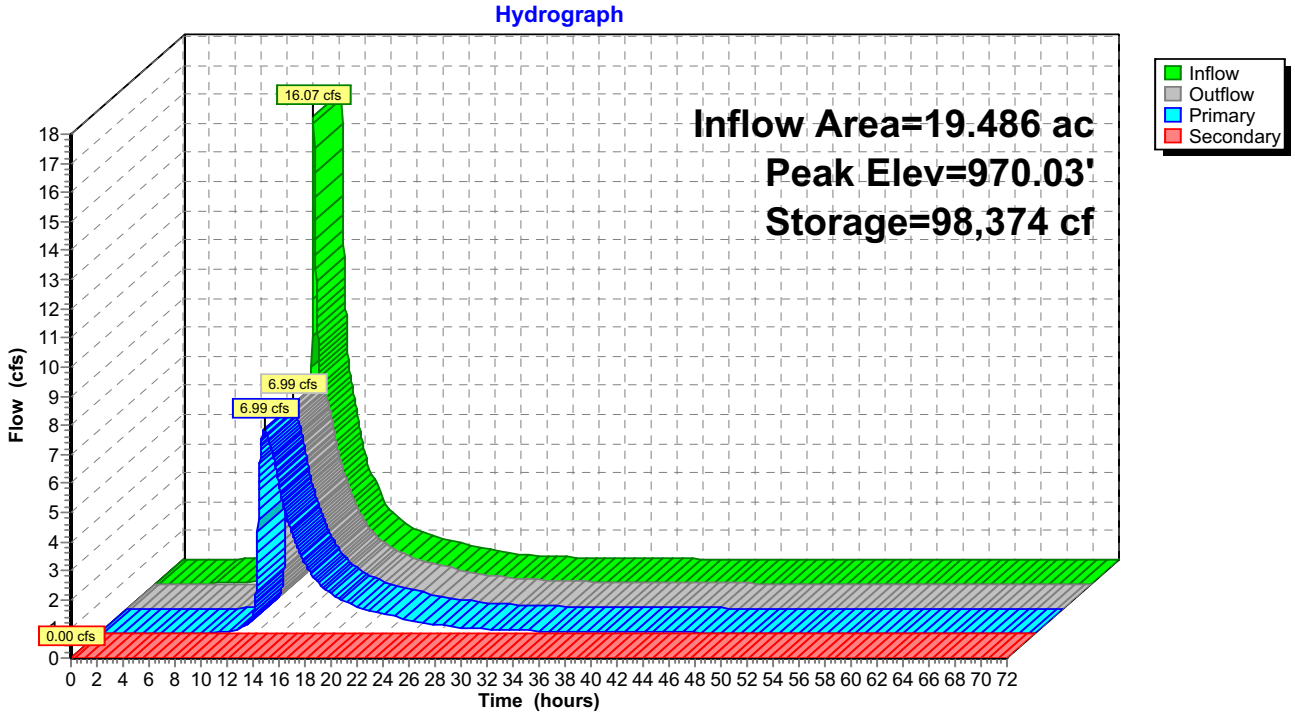
Pond P2S: Pond 2S



Summary for Pond P3S: Pond 3S

Inflow Area = 12.637 ac, 40.00% Impervious, Inflow Depth = 1.55" for 2yr-24hr event
Inflow = 25.45 cfs @ 12.20 hrs, Volume= 1.634 af
Outflow = 4.90 cfs @ 12.63 hrs, Volume= 1.606 af, Atten= 81%, Lag= 26.0 min
Primary = 4.90 cfs @ 12.63 hrs, Volume= 1.606 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 973.00' Surf.Area= 32,176 sf Storage= 137,120 cf
Peak Elev= 974.05' @ 12.63 hrs Surf.Area= 38,290 sf Storage= 174,034 cf (36,915 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 237.0 min (1,021.9 - 784.9)

Volume	Invert	Avail.Storage	Storage Description
#1	966.00'	766,406 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
966.00	10,224	0	0
968.00	15,259	25,483	25,483
970.00	20,470	35,729	61,212
972.00	26,233	46,703	107,915
974.00	38,119	64,352	172,267
976.00	45,500	83,619	255,886
978.00	65,000	110,500	366,386
980.00	103,996	168,996	535,382
982.00	127,028	231,024	766,406

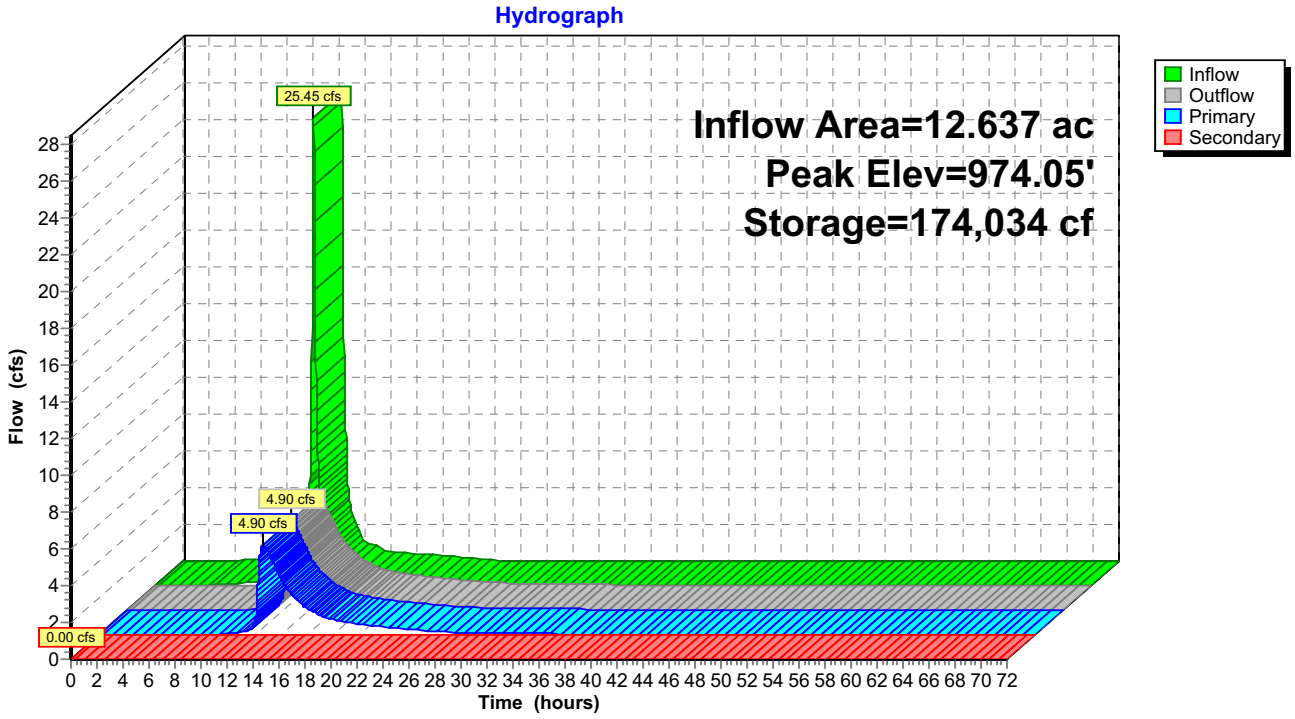
Device	Routing	Invert	Outlet Devices
#1	Primary	970.00'	**21.0" Round Main outlet (Structure I10 to I9)** L= 108.4' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.00' / 969.50' S= 0.0046 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#2	Device 1	970.50'	**21.0" Round Structure I11 to I10** L= 26.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.50' / 970.00' S= 0.0189 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#3	Device 2	972.00'	**21.0" Round Structure I12 to I11** L= 30.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 972.00' / 971.50' S= 0.0164 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#4	Device 3	973.00'	**21.0" Round Structure I13 to I12** L= 152.2' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 973.00' / 972.00' S= 0.0066 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#5	Device 4	976.10'	**48.0" Horiz. I13 Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 4	970.00'	**21.0" Round low flow pipe** L= 35.6' RCP, end-section conforming to fill, Ke= 0.500

			Inlet / Outlet Invert= 968.00' / 970.00' S= -0.0562 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#7	Secondary	978.00'	**5.0' long x 2.0' breadth EOF** 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=4.90 cfs @ 12.63 hrs HW=974.05' TW=970.71' (Dynamic Tailwater)
- **1=Main outlet (Structure I10 to I9)** (Passes 4.90 cfs of 19.24 cfs potential flow)
  - **2=Structure I11 to I10** (Passes 4.90 cfs of 23.16 cfs potential flow)
    - **3=Structure I12 to I11** (Passes 4.90 cfs of 14.47 cfs potential flow)
      - **4=Structure I13 to I12** (Barrel Controls 4.90 cfs @ 4.69 fps)
        - **5=I13 Grate** (Controls 0.00 cfs)
        - **6=low flow pipe** (Passes 4.90 cfs of 11.85 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.00' TW=972.00' (Dynamic Tailwater)
- **7=EOF** (Controls 0.00 cfs)

Pond P3S: Pond 3S



Summary for Pond P4S: Pond 4S

Inflow Area = 75.911 ac, 31.08% Impervious, Inflow Depth > 1.27" for 2yr-24hr event
Inflow = 36.48 cfs @ 12.21 hrs, Volume= 8.055 af
Outflow = 17.28 cfs @ 12.47 hrs, Volume= 7.990 af, Atten= 53%, Lag= 15.4 min
Primary = 17.28 cfs @ 12.47 hrs, Volume= 7.990 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 967.50' Surf.Area= 22,564 sf Storage= 74,427 cf
Peak Elev= 968.87' @ 12.47 hrs Surf.Area= 30,718 sf Storage= 110,417 cf (35,990 cf above start)

Plug-Flow detention time= 498.9 min calculated for 6.279 af (78% of inflow)
Center-of-Mass det. time= 72.1 min (1,303.7 - 1,231.6)

Volume	Invert	Avail.Storage	Storage Description
#1	960.00'	730,861 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
960.00	2,404	0	0
962.00	4,393	6,797	6,797
964.00	9,311	13,704	20,501
966.00	15,824	25,135	45,636
968.00	24,811	40,635	86,271
970.00	38,395	63,206	149,477
972.00	58,966	97,361	246,838
974.00	118,288	177,254	424,092
976.00	188,481	306,769	730,861

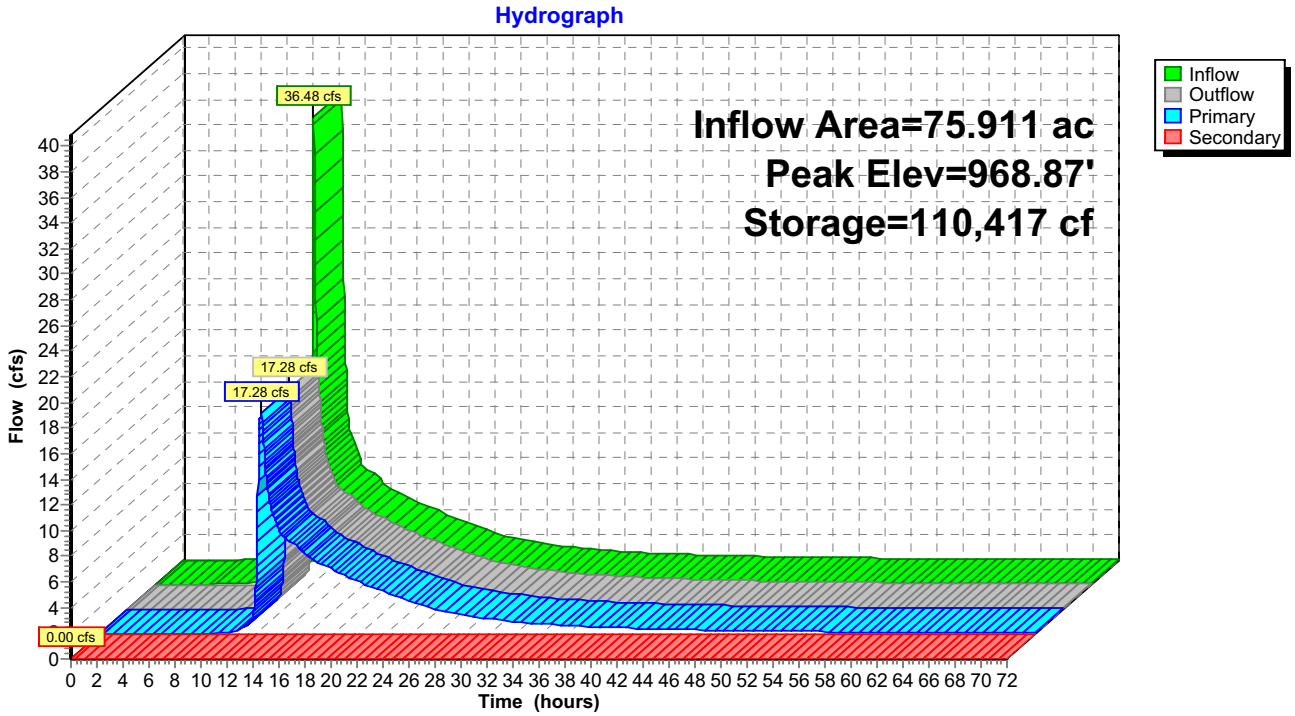
Device	Routing	Invert	Outlet Devices
#1	Primary	967.50'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 258.6' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 967.50' / 967.00' S= 0.0019 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 11.40 sf
#2	Device 1	971.70'	**60.0" Horiz. Structure 254 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	964.00'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 30.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 963.00' / 964.00' S= -0.0333 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 11.40 sf
#4	Secondary	969.00'	**36.0" Round Secondary outlet (Structure 184 to 185)** L= 147.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.00' / 967.00' S= 0.0136 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#5	Device 4	969.50'	**36.0" Round Structure 187 to 184** L= 24.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.50' / 969.00' S= 0.0204 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#6	Device 5	970.50'	**36.0" Round Structure 186 to 187**

			L= 64.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 970.50' / 969.50' S= 0.0155 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#7	Device 6	971.70'	**10.0' long x 4.0' breadth Berm to Secondary EOF** 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 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=17.27 cfs @ 12.47 hrs HW=968.87' TW=967.96' (Dynamic Tailwater)
└─**1=RCP_Arch 59x36** (Barrel Controls 17.27 cfs @ 4.12 fps)
  └─**2=Structure 254 Grate** (Controls 0.00 cfs)
  └─**3=RCP_Arch 59x36** (Passes 17.27 cfs of 52.46 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=967.50' TW=967.00' (Dynamic Tailwater)
└─**4=Secondary outlet (Structure 184 to 185)**(Controls 0.00 cfs)
  └─**5=Structure 187 to 184** (Controls 0.00 cfs)
    └─**6=Structure 186 to 187** (Controls 0.00 cfs)
      └─**7=Berm to Secondary EOF** (Controls 0.00 cfs)

Pond P4S: Pond 4S



Summary for Pond P5S: Pond 5S

Inflow Area = 53.598 ac, 33.43% Impervious, Inflow Depth = 1.39" for 2yr-24hr event
Inflow = 96.25 cfs @ 12.20 hrs, Volume= 6.219 af
Outflow = 5.71 cfs @ 13.63 hrs, Volume= 5.778 af, Atten= 94%, Lag= 85.8 min
Primary = 5.71 cfs @ 13.63 hrs, Volume= 5.778 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 978.00' Surf.Area= 162,000 sf Storage= 888,000 cf
Peak Elev= 979.04' @ 13.63 hrs Surf.Area= 185,174 sf Storage= 1,069,206 cf (181,206 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 613.2 min (1,402.4 - 789.2)

Volume	Invert	Avail.Storage	Storage Description
#1	970.00'	3,604,800 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
970.00	70,000	0	0
972.00	89,000	159,000	159,000
974.00	109,000	198,000	357,000
976.00	130,000	239,000	596,000
978.00	162,000	292,000	888,000
980.00	206,400	368,400	1,256,400
982.00	237,000	443,400	1,699,800
984.00	237,000	474,000	2,173,800
990.00	240,000	1,431,000	3,604,800

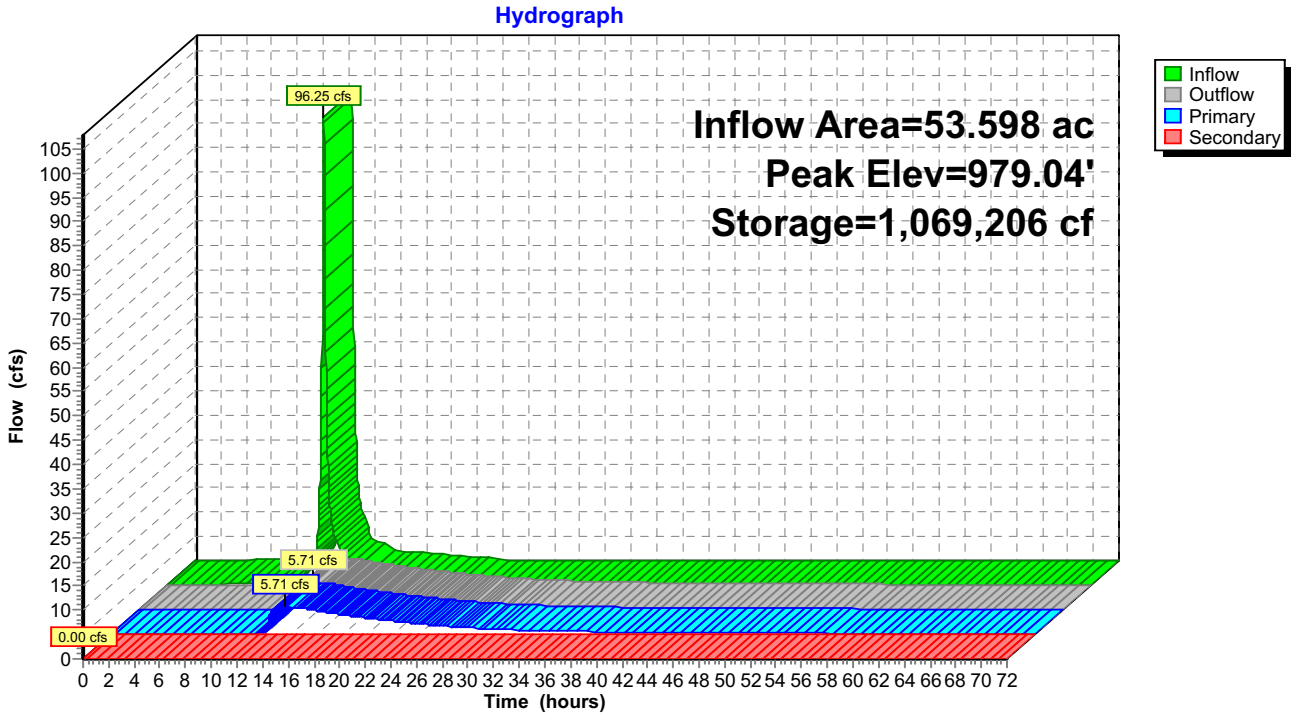
Device	Routing	Invert	Outlet Devices
#1	Primary	970.00'	**18.0" Round Structure 273 to 246** L= 192.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.00' / 968.50' S= 0.0078 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#2	Device 1	972.00'	**18.0" Round Structure 272 to 273** L= 70.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 972.00' / 970.00' S= 0.0286 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#3	Device 2	974.00'	**18.0" Round Structure 271 to 272** L= 50.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 974.00' / 973.00' S= 0.0200 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#4	Device 3	978.00'	**18.0" Round Structure 245 to 271** L= 108.6' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 978.00' / 974.00' S= 0.0368 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#5	Device 4	975.50'	**21.0" Round low flow pipe** L= 29.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 975.00' / 975.50' S= -0.0172 '/' Cc= 0.900

			n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#6	Device 4	981.50'	**48.0" Horiz. Structure 245 grate** C= 0.600
			Limited to weir flow at low heads
#7	Secondary	981.50'	**10.0' long x 2.0' breadth EOF**
			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=5.71 cfs @ 13.63 hrs HW=979.04' TW=968.66' (Dynamic Tailwater)
- **1=Structure 273 to 246** (Passes 5.71 cfs of 19.63 cfs potential flow)
  - **2=Structure 272 to 273** (Passes 5.71 cfs of 24.73 cfs potential flow)
    - **3=Structure 271 to 272** (Passes 5.71 cfs of 20.79 cfs potential flow)
      - **4=Structure 245 to 271** (Inlet Controls 5.71 cfs @ 4.35 fps)
        - **5=low flow pipe** (Passes 5.71 cfs of 11.83 cfs potential flow)
        - **6=Structure 245 grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=978.00' (Dynamic Tailwater)
- **7=EOF** (Controls 0.00 cfs)

Pond P5S: Pond 5S



Summary for Pond Wetland 9: Wetland 9

[80] Warning: Exceeded Pond P1N by 0.14' @ 13.18 hrs (0.66 cfs 0.123 af)

Inflow Area = 10.217 ac, 25.83% Impervious, Inflow Depth = 0.70" for 2yr-24hr event
Inflow = 4.86 cfs @ 12.25 hrs, Volume= 0.598 af
Outflow = 0.86 cfs @ 13.40 hrs, Volume= 0.297 af, Atten= 82%, Lag= 68.9 min
Primary = 0.86 cfs @ 13.40 hrs, Volume= 0.297 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.00' Surf.Area= 9,469 sf Storage= 6,526 cf
Peak Elev= 1,010.07' @ 13.40 hrs Surf.Area= 16,723 sf Storage= 20,773 cf (14,248 cf above start)

Plug-Flow detention time= 657.8 min calculated for 0.148 af (25% of inflow)
Center-of-Mass det. time= 215.2 min (1,114.4 - 899.3)

Volume	Invert	Avail.Storage	Storage Description
#1	1,008.00'	53,068 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,008.00	3,582	0	0
1,009.00	9,469	6,526	6,526
1,010.00	16,723	13,096	19,622
1,012.00	16,723	33,446	53,068

Device	Routing	Invert	Outlet Devices
#1	Primary	1,010.00'	**20.0' long x 6.0' 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 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=0.86 cfs @ 13.40 hrs HW=1,010.07' TW=0.00' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 0.86 cfs @ 0.62 fps)

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Prepared by AE2S
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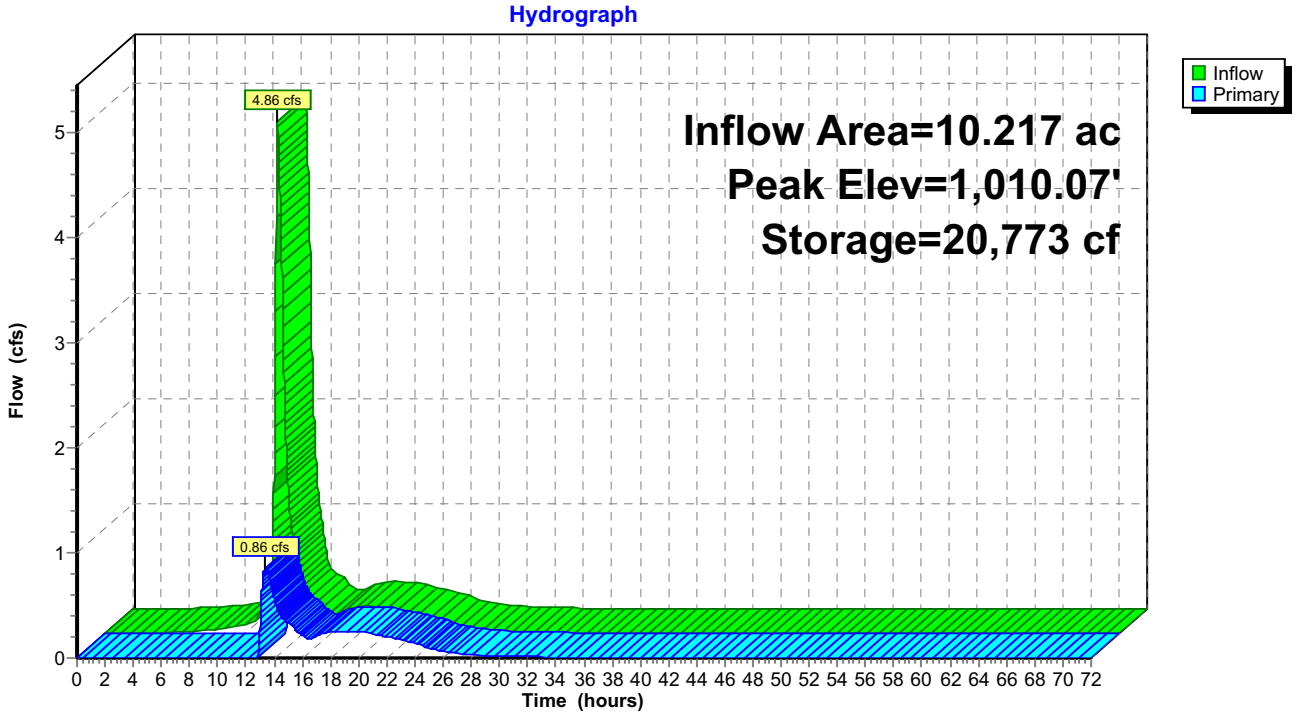
Pond Wetland 9: Wetland 9



Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1N: 1N Runoff Area=4.840 ac 30.45% Impervious Runoff Depth=2.48"
Tc=12.0 min CN=WQ Runoff=16.08 cfs 1.000 af

Subcatchment1N_100: 1N_100 Runoff Area=0.554 ac 22.74% Impervious Runoff Depth=2.29"
Flow Length=300' Slope=0.0730 '/' Tc=14.8 min CN=WQ Runoff=1.56 cfs 0.106 af

Subcatchment1S: 1S Runoff Area=13.917 ac 49.29% Impervious Runoff Depth=2.79"
Tc=12.0 min CN=WQ Runoff=50.17 cfs 3.233 af

Subcatchment2S: 2S Runoff Area=4.152 ac 49.86% Impervious Runoff Depth=2.91"
Tc=12.0 min CN=WQ Runoff=15.79 cfs 1.008 af

Subcatchment3S: 3S Runoff Area=9.641 ac 44.37% Impervious Runoff Depth=2.79"
Tc=12.0 min CN=WQ Runoff=35.35 cfs 2.241 af

Subcatchment3S_100: 3S_100 Runoff Area=0.507 ac 69.43% Impervious Runoff Depth=3.35"
Tc=12.0 min CN=WQ Runoff=2.17 cfs 0.142 af

Subcatchment4S: 4S Runoff Area=9.003 ac 34.97% Impervious Runoff Depth=2.34"
Tc=12.0 min CN=WQ Runoff=27.33 cfs 1.752 af

Subcatchment5S: 5S Runoff Area=28.318 ac 47.45% Impervious Runoff Depth=2.70"
Tc=12.0 min CN=WQ Runoff=99.40 cfs 6.378 af

Subcatchment5S_100: 5S_100 Runoff Area=0.289 ac 46.02% Impervious Runoff Depth=2.83"
Tc=12.0 min CN=WQ Runoff=1.07 cfs 0.068 af

Subcatchment1000: 1000 Runoff Area=0.038 ac 36.84% Impervious Runoff Depth=2.62"
Flow Length=115' Slope=0.0170 '/' Tc=12.3 min CN=WQ Runoff=0.13 cfs 0.008 af

SubcatchmentA10: A10 Runoff Area=0.830 ac 22.77% Impervious Runoff Depth=2.31"
Tc=12.0 min CN=WQ Runoff=2.60 cfs 0.160 af

SubcatchmentA10_100: A10_100 Runoff Area=0.034 ac 100.00% Impervious Runoff Depth=4.03"
Tc=12.0 min CN=98 Runoff=0.17 cfs 0.011 af

SubcatchmentA15: A15 Runoff Area=0.669 ac 25.11% Impervious Runoff Depth=2.36"
Tc=12.0 min CN=WQ Runoff=2.13 cfs 0.132 af

SubcatchmentA15_100: A15_100 Runoff Area=0.027 ac 100.00% Impervious Runoff Depth=4.03"
Tc=12.0 min CN=98 Runoff=0.14 cfs 0.009 af

SubcatchmentA8: A8 Runoff Area=0.095 ac 10.53% Impervious Runoff Depth=2.03"
Tc=12.0 min CN=WQ Runoff=0.27 cfs 0.016 af

SubcatchmentA9: A9 Runoff Area=0.671 ac 21.61% Impervious Runoff Depth=2.28"
Tc=12.0 min CN=WQ Runoff=2.08 cfs 0.128 af

SubcatchmentB5: B5 Runoff Area=0.552 ac 7.25% Impervious Runoff Depth=1.94"
Tc=12.0 min CN=WQ Runoff=1.50 cfs 0.089 af

SubcatchmentB6: B6 Runoff Area=1.508 ac 9.28% Impervious Runoff Depth=2.00"
Tc=12.0 min CN=WQ Runoff=4.22 cfs 0.252 af

SubcatchmentB7: B7 Runoff Area=0.782 ac 10.23% Impervious Runoff Depth=2.03"
Tc=12.0 min CN=WQ Runoff=2.21 cfs 0.132 af

SubcatchmentB7_100: B7_100 Runoff Area=0.211 ac 29.86% Impervious Runoff Depth=2.47"
Tc=12.0 min CN=WQ Runoff=0.70 cfs 0.043 af

SubcatchmentB8: B8 Runoff Area=1.110 ac 17.84% Impervious Runoff Depth=2.19"
Tc=12.0 min CN=WQ Runoff=3.32 cfs 0.202 af

SubcatchmentB8_100: B8_100 Runoff Area=0.030 ac 90.00% Impervious Runoff Depth=3.81"
Tc=12.0 min CN=WQ Runoff=0.14 cfs 0.010 af

SubcatchmentC10: C10 Runoff Area=1.314 ac 2.74% Impervious Runoff Depth=1.86"
Tc=12.0 min CN=WQ Runoff=3.47 cfs 0.204 af

SubcatchmentC10_100: C10_100 Runoff Area=0.546 ac 59.71% Impervious Runoff Depth=3.13"
Tc=12.0 min CN=WQ Runoff=2.21 cfs 0.143 af

SubcatchmentC6: C6 Runoff Area=0.839 ac 1.31% Impervious Runoff Depth=1.83"
Tc=12.0 min CN=WQ Runoff=2.19 cfs 0.128 af

SubcatchmentC7: C7 Runoff Area=1.079 ac 1.67% Impervious Runoff Depth=1.83"
Tc=12.0 min CN=WQ Runoff=2.82 cfs 0.165 af

SubcatchmentC7_100: C7_100 Runoff Area=0.268 ac 62.31% Impervious Runoff Depth=3.19"
Flow Length=300' Slope=0.0870 '/' Tc=13.8 min CN=WQ Runoff=1.03 cfs 0.071 af

SubcatchmentC8: C8 Runoff Area=1.457 ac 9.47% Impervious Runoff Depth=2.01"
Tc=12.0 min CN=WQ Runoff=4.09 cfs 0.244 af

SubcatchmentC8_100: C8_100 Runoff Area=0.470 ac 62.77% Impervious Runoff Depth=3.20"
Flow Length=300' Slope=0.0870 '/' Tc=13.8 min CN=WQ Runoff=1.82 cfs 0.125 af

SubcatchmentC9: C9 Runoff Area=1.762 ac 7.49% Impervious Runoff Depth=1.96"
Tc=12.0 min CN=WQ Runoff=4.86 cfs 0.288 af

SubcatchmentC9_100: C9_100 Runoff Area=0.301 ac 65.12% Impervious Runoff Depth=3.25"
Tc=12.0 min CN=WQ Runoff=1.26 cfs 0.082 af

SubcatchmentD6: D6 Runoff Area=0.376 ac 3.46% Impervious Runoff Depth=1.87"
Tc=12.0 min CN=WQ Runoff=1.00 cfs 0.059 af

SubcatchmentD7: D7 Runoff Area=0.511 ac 11.94% Impervious Runoff Depth=2.06"
Tc=12.0 min CN=WQ Runoff=1.46 cfs 0.088 af

SubcatchmentD7_100: D7_100 Runoff Area=0.075 ac 56.00% Impervious Runoff Depth=3.05"
Tc=12.0 min CN=WQ Runoff=0.30 cfs 0.019 af

SubcatchmentD8: D8 Runoff Area=1.215 ac 7.98% Impervious Runoff Depth=1.98"
Tc=12.0 min CN=WQ Runoff=3.36 cfs 0.200 af

SubcatchmentD9: D9 Runoff Area=1.254 ac 16.11% Impervious Runoff Depth=2.16"
Tc=12.0 min CN=WQ Runoff=3.72 cfs 0.225 af

SubcatchmentE13: E13 Runoff Area=0.980 ac 25.31% Impervious Runoff Depth=2.36"
Tc=12.0 min CN=WQ Runoff=3.13 cfs 0.193 af

SubcatchmentE15: E15 Runoff Area=1.926 ac 26.90% Impervious Runoff Depth=2.40"
Tc=12.0 min CN=WQ Runoff=6.23 cfs 0.385 af

SubcatchmentE16: E16 Runoff Area=1.374 ac 25.84% Impervious Runoff Depth=2.38"
Tc=12.0 min CN=WQ Runoff=4.41 cfs 0.272 af

SubcatchmentE17: E17 Runoff Area=0.991 ac 20.48% Impervious Runoff Depth=2.26"
Tc=12.0 min CN=WQ Runoff=3.05 cfs 0.186 af

SubcatchmentE18: E18 Runoff Area=1.734 ac 9.86% Impervious Runoff Depth=2.02"
Tc=12.0 min CN=WQ Runoff=4.88 cfs 0.292 af

SubcatchmentF5: F5 Runoff Area=1.224 ac 21.24% Impervious Runoff Depth=2.27"
Tc=12.0 min CN=WQ Runoff=3.79 cfs 0.232 af

SubcatchmentF6: F6 Runoff Area=0.921 ac 21.06% Impervious Runoff Depth=2.27"
Tc=12.0 min CN=WQ Runoff=2.85 cfs 0.174 af

SubcatchmentF7: F7 Runoff Area=0.667 ac 11.69% Impervious Runoff Depth=2.06"
Tc=12.0 min CN=WQ Runoff=1.91 cfs 0.114 af

SubcatchmentF8: F8 Runoff Area=1.906 ac 16.00% Impervious Runoff Depth=2.16"
Tc=12.0 min CN=WQ Runoff=5.65 cfs 0.342 af

SubcatchmentH5: H5 Runoff Area=2.168 ac 27.21% Impervious Runoff Depth=2.20"
Tc=12.0 min CN=WQ Runoff=6.31 cfs 0.398 af

SubcatchmentH6: H6 Runoff Area=1.008 ac 19.54% Impervious Runoff Depth=1.70"
Tc=12.0 min CN=WQ Runoff=2.20 cfs 0.143 af

SubcatchmentH7: H7 Runoff Area=1.176 ac 19.64% Impervious Runoff Depth=1.81"
Tc=12.0 min CN=WQ Runoff=2.78 cfs 0.178 af

SubcatchmentI7: I7 Runoff Area=0.783 ac 24.01% Impervious Runoff Depth=2.33"
Tc=12.0 min CN=WQ Runoff=2.48 cfs 0.152 af

SubcatchmentI7_100: I7_100 Runoff Area=0.485 ac 7.01% Impervious Runoff Depth=1.95"
Tc=12.0 min CN=WQ Runoff=1.33 cfs 0.079 af

SubcatchmentI8: I8 Runoff Area=1.003 ac 25.12% Impervious Runoff Depth=2.36"
Tc=12.0 min CN=WQ Runoff=3.20 cfs 0.197 af

SubcatchmentI8_100: I8_100 Runoff Area=0.170 ac 25.88% Impervious Runoff Depth=2.38"
Tc=12.0 min CN=WQ Runoff=0.55 cfs 0.034 af

SubcatchmentI9: I9 Runoff Area=0.256 ac 27.73% Impervious Runoff Depth=2.42"
Tc=12.0 min CN=WQ Runoff=0.83 cfs 0.052 af

SubcatchmentJ3: J3 Runoff Area=1.496 ac 20.32% Impervious Runoff Depth=2.25"
Tc=12.0 min CN=WQ Runoff=4.60 cfs 0.281 af

SubcatchmentJ4: J4 Runoff Area=0.310 ac 0.00% Impervious Runoff Depth=1.80"
Tc=12.0 min CN=74 Runoff=0.80 cfs 0.046 af

SubcatchmentJ5: J5 Runoff Area=0.683 ac 17.72% Impervious Runoff Depth=2.19"
Tc=12.0 min CN=WQ Runoff=2.05 cfs 0.125 af

SubcatchmentL10: L10 Runoff Area=1.158 ac 17.53% Impervious Runoff Depth=2.19"
Tc=12.0 min CN=WQ Runoff=3.48 cfs 0.211 af

SubcatchmentL4: L4 Runoff Area=0.167 ac 20.96% Impervious Runoff Depth=2.24"
Tc=12.0 min CN=WQ Runoff=0.51 cfs 0.031 af

SubcatchmentL5: L5 Runoff Area=0.763 ac 22.02% Impervious Runoff Depth=2.29"
Tc=12.0 min CN=WQ Runoff=2.38 cfs 0.146 af

SubcatchmentL6: L6 Runoff Area=1.091 ac 19.98% Impervious Runoff Depth=2.24"
Tc=12.0 min CN=WQ Runoff=3.34 cfs 0.204 af

SubcatchmentL7: L7 Runoff Area=0.759 ac 21.21% Impervious Runoff Depth=2.27"
Tc=12.0 min CN=WQ Runoff=2.35 cfs 0.144 af

SubcatchmentL8: L8 Runoff Area=1.441 ac 22.07% Impervious Runoff Depth=2.19"
Tc=12.0 min CN=WQ Runoff=4.27 cfs 0.263 af

SubcatchmentL9: L9 Runoff Area=0.971 ac 21.11% Impervious Runoff Depth=2.26"
Tc=12.0 min CN=WQ Runoff=2.99 cfs 0.183 af

SubcatchmentO10: O10 Runoff Area=0.609 ac 15.44% Impervious Runoff Depth=2.14"
Tc=12.0 min CN=WQ Runoff=1.80 cfs 0.109 af

SubcatchmentO8: O8 Runoff Area=0.490 ac 12.24% Impervious Runoff Depth=2.07"
Tc=12.0 min CN=WQ Runoff=1.41 cfs 0.085 af

SubcatchmentO9: O9 Runoff Area=1.143 ac 19.86% Impervious Runoff Depth=2.24"
Tc=12.0 min CN=WQ Runoff=3.50 cfs 0.214 af

SubcatchmentW6: W6 Runoff Area=10.080 ac 10.00% Impervious Runoff Depth=2.01"
Flow Length=780' Tc=27.0 min CN=WQ Runoff=18.57 cfs 1.685 af

SubcatchmentW6_100: W6_100 Runoff Area=0.217 ac 0.00% Impervious Runoff Depth=1.76"
Flow Length=550' Tc=42.4 min CN=WQ Runoff=0.27 cfs 0.032 af

SubcatchmentW6_101: W6_101 Runoff Area=2.257 ac 13.16% Impervious Runoff Depth=2.08"
Flow Length=605' Tc=19.1 min CN=WQ Runoff=5.16 cfs 0.391 af

SubcatchmentW6_102: W6_102 Runoff Area=0.261 ac 0.00% Impervious Runoff Depth=1.80"
Tc=15.5 min CN=74 Runoff=0.59 cfs 0.039 af

SubcatchmentW9: W9 Runoff Area=1.787 ac 12.14% Impervious Runoff Depth=2.06"
Tc=12.0 min CN=WQ Runoff=5.11 cfs 0.307 af

SubcatchmentW9_100: W9_100 Runoff Area=2.497 ac 22.31% Impervious Runoff Depth=2.30"
Flow Length=1,013' Tc=34.0 min CN=WQ Runoff=4.51 cfs 0.478 af

SubcatchmentW9_101: W9_101 Runoff Area=0.539 ac 49.17% Impervious Runoff Depth=2.90"
Flow Length=300' Slope=0.0570 '/' Tc=16.4 min CN=WQ Runoff=1.77 cfs 0.130 af

Reach 1R: Bassett Creek Watershed Inflow=50.74 cfs 24.797 af
Outflow=50.74 cfs 24.797 af

Reach 5R: Elm Creek Watershed Inflow=5.63 cfs 1.217 af
Outflow=5.63 cfs 1.217 af

Reach 8R: Offsite Inflow=0.13 cfs 0.008 af
Outflow=0.13 cfs 0.008 af

Reach Wetland: Wetland 6 Inflow=50.70 cfs 24.789 af
Outflow=50.70 cfs 24.789 af

Pond 4P: CB_22 pipe Peak Elev=971.44' Inflow=10.22 cfs 2.858 af
Outflow=10.22 cfs 2.858 af

Pond CB_A10: CB_A10 Peak Elev=996.29' Storage=77 cf Inflow=3.57 cfs 0.221 af
Outflow=3.56 cfs 0.221 af

Pond CB_A15: CB_A15 Peak Elev=998.16' Storage=41 cf Inflow=2.27 cfs 0.141 af
Primary=1.46 cfs 0.091 af Secondary=0.80 cfs 0.050 af Outflow=2.27 cfs 0.141 af

Pond CB_A8: CB_A8 Peak Elev=1,002.05' Storage=4 cf Inflow=0.27 cfs 0.016 af
Primary=0.27 cfs 0.016 af Secondary=0.00 cfs 0.000 af Outflow=0.27 cfs 0.016 af

Pond CB_A9: CB_A9 Peak Elev=1,002.18' Storage=740 cf Inflow=2.08 cfs 0.128 af
Primary=1.73 cfs 0.128 af Secondary=0.00 cfs 0.000 af Outflow=1.73 cfs 0.128 af

Pond CB_B5: CB_B5 Peak Elev=996.16' Storage=32 cf Inflow=1.50 cfs 0.089 af
Primary=1.50 cfs 0.089 af Secondary=0.00 cfs 0.000 af Outflow=1.50 cfs 0.089 af

Pond CB_B6: CB_B6 Peak Elev=994.37' Storage=163 cf Inflow=5.23 cfs 0.314 af
Primary=5.20 cfs 0.314 af Secondary=0.00 cfs 0.000 af Outflow=5.20 cfs 0.314 af

Pond CB_B7: CB_B7 Peak Elev=998.19' Storage=237 cf Inflow=2.91 cfs 0.175 af
Primary=1.85 cfs 0.113 af Secondary=1.02 cfs 0.062 af Outflow=2.87 cfs 0.175 af

Pond CB_B8: CB_B8 Peak Elev=995.78' Storage=32 cf Inflow=3.47 cfs 0.212 af
Primary=3.47 cfs 0.212 af Secondary=0.00 cfs 0.000 af Outflow=3.47 cfs 0.212 af

Pond CB_C10: CB_C10 Peak Elev=994.39' Storage=121 cf Inflow=5.67 cfs 0.346 af
Primary=5.66 cfs 0.346 af Secondary=0.00 cfs 0.000 af Outflow=5.66 cfs 0.346 af

Pond CB_C6: CB_C6 Peak Elev=993.21' Storage=46 cf Inflow=2.19 cfs 0.128 af
Primary=2.18 cfs 0.128 af Secondary=0.00 cfs 0.000 af Outflow=2.18 cfs 0.128 af

Pond CB_C7: CB_C7 Peak Elev=993.30' Storage=121 cf Inflow=3.85 cfs 0.236 af
Primary=3.83 cfs 0.236 af Secondary=0.00 cfs 0.000 af Outflow=3.83 cfs 0.236 af

Pond CB_C8: CB_C8 Peak Elev=991.40' Storage=82 cf Inflow=5.90 cfs 0.369 af
Outflow=5.89 cfs 0.369 af

Pond CB_C9: CB_C9 Peak Elev=992.41' Storage=204 cf Inflow=6.11 cfs 0.370 af
Primary=6.07 cfs 0.370 af Secondary=0.00 cfs 0.000 af Outflow=6.07 cfs 0.370 af

Pond CB_D6: CB_D6 Peak Elev=1,000.12' Storage=33 cf Inflow=1.00 cfs 0.059 af
Primary=0.99 cfs 0.059 af Secondary=0.00 cfs 0.000 af Outflow=0.99 cfs 0.059 af

Pond CB_D7: CB_D7 Peak Elev=1,002.18' Storage=59 cf Inflow=1.76 cfs 0.107 af
Primary=1.75 cfs 0.107 af Secondary=0.00 cfs 0.000 af Outflow=1.75 cfs 0.107 af

Pond CB_D8: CB_D8 Peak Elev=1,002.27' Storage=159 cf Inflow=3.36 cfs 0.200 af
Primary=3.32 cfs 0.200 af Secondary=0.00 cfs 0.000 af Outflow=3.32 cfs 0.200 af

Pond CB_D9: CB_D9 Peak Elev=997.29' Storage=159 cf Inflow=3.72 cfs 0.225 af
Outflow=3.68 cfs 0.225 af

Pond CB_E13: CB_E13 Peak Elev=1,004.26' Storage=31 cf Inflow=3.13 cfs 0.193 af
Outflow=3.13 cfs 0.193 af

Pond CB_E15: CB_E15 Peak Elev=992.42' Storage=90 cf Inflow=6.23 cfs 0.385 af
Outflow=6.22 cfs 0.385 af

Pond CB_E16: CB_E16 Peak Elev=996.33' Storage=135 cf Inflow=4.41 cfs 0.272 af
Primary=4.38 cfs 0.272 af Secondary=0.00 cfs 0.000 af Outflow=4.38 cfs 0.272 af

Pond CB_E17: CB_E17 Peak Elev=1,002.26' Storage=170 cf Inflow=3.05 cfs 0.186 af
Primary=3.03 cfs 0.186 af Secondary=0.00 cfs 0.000 af Outflow=3.03 cfs 0.186 af

Pond CB_E18: CB_E18 Peak Elev=1,008.35' Storage=342 cf Inflow=4.88 cfs 0.292 af
Primary=4.85 cfs 0.291 af Secondary=0.00 cfs 0.000 af Outflow=4.85 cfs 0.291 af

Pond CB_F5: CB_F5 Peak Elev=983.36' Storage=172 cf Inflow=5.07 cfs 0.356 af
Outflow=5.03 cfs 0.356 af

Pond CB_F6: CB_F6 Peak Elev=986.17' Storage=12 cf Inflow=2.85 cfs 0.174 af
Primary=1.57 cfs 0.050 af Secondary=1.28 cfs 0.124 af Outflow=2.85 cfs 0.174 af

Pond CB_F7: CB_F7 Peak Elev=986.69' Storage=30 cf Inflow=1.91 cfs 0.114 af
Primary=1.90 cfs 0.114 af Secondary=0.00 cfs 0.000 af Outflow=1.90 cfs 0.114 af

Pond CB_F8: CB_F8 Peak Elev=989.39' Storage=137 cf Inflow=5.65 cfs 0.342 af
Primary=5.63 cfs 0.342 af Secondary=0.00 cfs 0.000 af Outflow=5.63 cfs 0.342 af

Pond CB_H5: CB_H5 Peak Elev=972.42' Storage=223 cf Inflow=6.31 cfs 0.398 af
Outflow=6.26 cfs 0.398 af

Pond CB_H6: CB_H6 Peak Elev=973.21' Storage=118 cf Inflow=2.20 cfs 0.143 af
Primary=2.16 cfs 0.143 af Secondary=0.00 cfs 0.000 af Outflow=2.16 cfs 0.143 af

Pond CB_H7: CB_H7 Peak Elev=974.23' Storage=577 cf Inflow=2.78 cfs 0.178 af
Primary=2.59 cfs 0.177 af Secondary=0.00 cfs 0.000 af Outflow=2.59 cfs 0.177 af

Pond CB_I7: CB_I7 Peak Elev=985.30' Storage=98 cf Inflow=3.81 cfs 0.231 af
Primary=3.79 cfs 0.231 af Secondary=0.00 cfs 0.000 af Outflow=3.79 cfs 0.231 af

Pond CB_I8: CB_I8 Peak Elev=987.30' Storage=49 cf Inflow=3.75 cfs 0.231 af
Primary=3.74 cfs 0.231 af Secondary=0.00 cfs 0.000 af Outflow=3.74 cfs 0.231 af

Pond CB_I9: CB_I9 Peak Elev=978.11' Storage=8 cf Inflow=0.83 cfs 0.052 af
Primary=0.83 cfs 0.052 af Secondary=0.00 cfs 0.000 af Outflow=0.83 cfs 0.052 af

Pond CB_J3: CB_J3 Peak Elev=991.34' Storage=89 cf Inflow=4.60 cfs 0.281 af
Primary=4.59 cfs 0.281 af Secondary=0.00 cfs 0.000 af Outflow=4.59 cfs 0.281 af

Pond CB_J4: CB_J4 Peak Elev=994.11' Storage=12 cf Inflow=0.80 cfs 0.046 af
Primary=0.80 cfs 0.046 af Secondary=0.00 cfs 0.000 af Outflow=0.80 cfs 0.046 af

Pond CB_J5: CB_J5 Peak Elev=997.20' Storage=32 cf Inflow=2.05 cfs 0.125 af
Primary=2.05 cfs 0.125 af Secondary=0.00 cfs 0.000 af Outflow=2.05 cfs 0.125 af

Pond CB_L10: CB_L10 Peak Elev=988.28' Storage=192 cf Inflow=3.48 cfs 0.211 af
Primary=3.46 cfs 0.211 af Secondary=0.00 cfs 0.000 af Outflow=3.46 cfs 0.211 af

Pond CB_L4: CB_L4 Peak Elev=978.08' Storage=8 cf Inflow=0.51 cfs 0.031 af
Primary=0.51 cfs 0.031 af Secondary=0.00 cfs 0.000 af Outflow=0.51 cfs 0.031 af

Pond CB_L5: CB_L5 Peak Elev=977.77' Storage=62 cf Inflow=3.23 cfs 0.218 af
Primary=3.23 cfs 0.218 af Secondary=0.00 cfs 0.000 af Outflow=3.23 cfs 0.218 af

Pond CB_L6: CB_L6 Peak Elev=978.18' Storage=1,219 cf Inflow=3.34 cfs 0.204 af
Primary=1.77 cfs 0.132 af Secondary=0.98 cfs 0.072 af Outflow=2.75 cfs 0.204 af

Pond CB_L7: CB_L7 Peak Elev=979.22' Storage=42 cf Inflow=2.35 cfs 0.144 af
Primary=2.34 cfs 0.144 af Secondary=0.00 cfs 0.000 af Outflow=2.34 cfs 0.144 af

Pond CB_L8: CB_L8 Peak Elev=980.32' Storage=303 cf Inflow=4.27 cfs 0.263 af
Primary=4.14 cfs 0.263 af Secondary=0.00 cfs 0.000 af Outflow=4.14 cfs 0.263 af

Pond CB_L9: CB_L9 Peak Elev=982.25' Storage=98 cf Inflow=2.99 cfs 0.183 af
Primary=2.98 cfs 0.183 af Secondary=0.00 cfs 0.000 af Outflow=2.98 cfs 0.183 af

Pond CB_O10: CB_O10 Peak Elev=978.18' Storage=52 cf Inflow=1.80 cfs 0.109 af
Primary=1.79 cfs 0.109 af Secondary=0.00 cfs 0.000 af Outflow=1.79 cfs 0.109 af

Pond CB_O8: CB_O8 Peak Elev=975.65' Storage=16 cf Inflow=1.41 cfs 0.085 af
Primary=1.41 cfs 0.085 af Secondary=0.00 cfs 0.000 af Outflow=1.41 cfs 0.085 af

Pond CB_O9: CB_O9 Peak Elev=978.28' Storage=72 cf Inflow=3.50 cfs 0.214 af
Primary=3.49 cfs 0.214 af Secondary=0.00 cfs 0.000 af Outflow=3.49 cfs 0.214 af

Pond P1N: Pond 1N Peak Elev=1,010.26' Storage=203,999 cf Inflow=17.58 cfs 1.105 af
Primary=1.02 cfs 0.602 af Secondary=0.00 cfs 0.000 af Outflow=1.02 cfs 0.602 af

Pond P1S: Pond 1S Peak Elev=969.04' Storage=426,650 cf Inflow=85.33 cfs 18.605 af
Primary=20.93 cfs 18.330 af Secondary=0.00 cfs 0.000 af Outflow=20.93 cfs 18.330 af

Pond P2S: Pond 2S Peak Elev=970.61' Storage=112,096 cf Inflow=30.06 cfs 4.328 af
Primary=14.70 cfs 4.314 af Secondary=0.00 cfs 0.000 af Outflow=14.70 cfs 4.314 af

Pond P3S: Pond 3S Peak Elev=974.65' Storage=197,856 cf Inflow=44.93 cfs 2.835 af
Primary=10.02 cfs 2.806 af Secondary=0.00 cfs 0.000 af Outflow=10.02 cfs 2.806 af

Pond P4S: Pond 4S Peak Elev=969.66' Storage=136,919 cf Inflow=71.63 cfs 14.725 af
Primary=36.13 cfs 14.655 af Secondary=0.00 cfs 0.000 af Outflow=36.13 cfs 14.655 af

Pond P5S: Pond 5S Peak Elev=979.75' Storage=1,205,300 cf Inflow=173.73 cfs 10.997 af
Primary=10.63 cfs 10.521 af Secondary=0.00 cfs 0.000 af Outflow=10.63 cfs 10.521 af

Pond Wetland 9: Wetland 9 Peak Elev=1,010.24' Storage=23,631 cf Inflow=9.57 cfs 1.517 af
Outflow=5.63 cfs 1.217 af

Total Runoff Area = 136.736 ac Runoff Volume = 27.683 af Average Runoff Depth = 2.43"
68.45% Pervious = 93.594 ac 31.55% Impervious = 43.142 ac

Summary for Subcatchment 1N: 1N

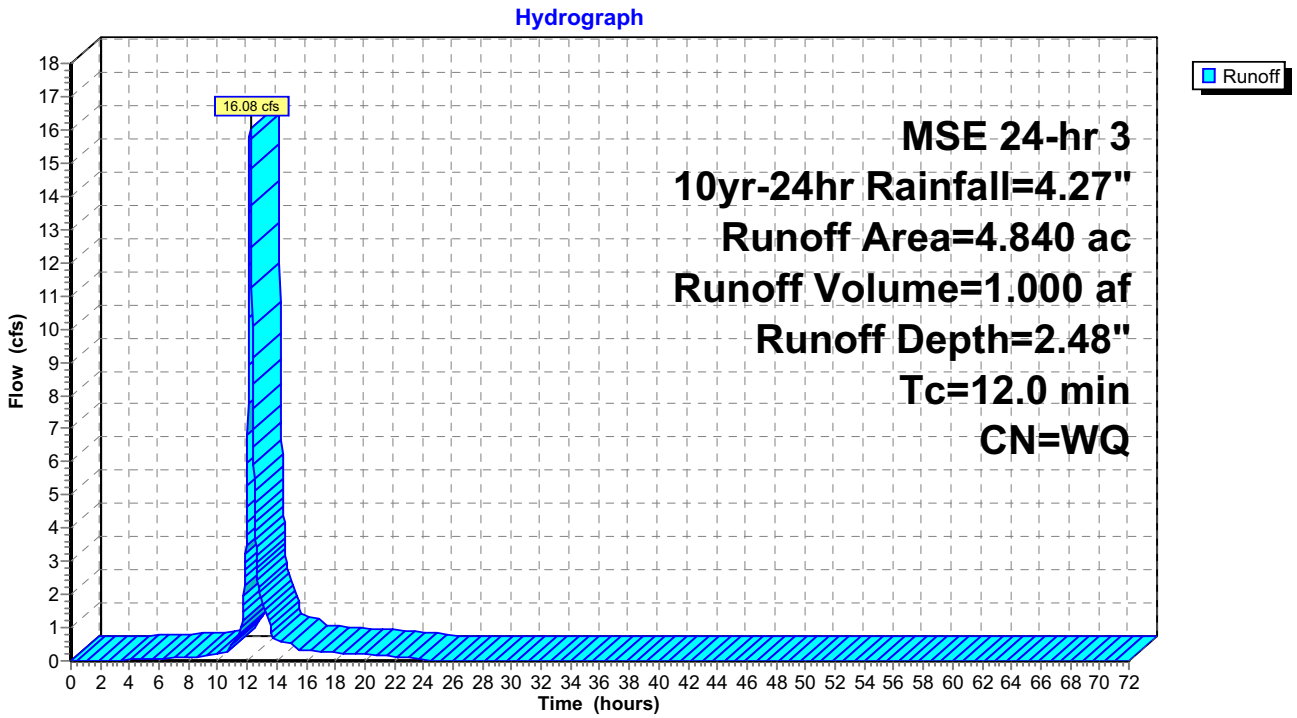
Runoff = 16.08 cfs @ 12.20 hrs, Volume= 1.000 af, Depth= 2.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.646	98	Impervious
	3.366	74	>75% Grass cover, Good, HSG C
*	0.828	98	Pond
	4.840		Weighted Average
	3.366		69.55% Pervious Area
	1.474		30.45% Impervious Area

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

Subcatchment 1N: 1N



Hollydale - Proposed Conditions - 6.25.2020
Prepared by AE2S
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Summary for Subcatchment 1N_100: 1N_100

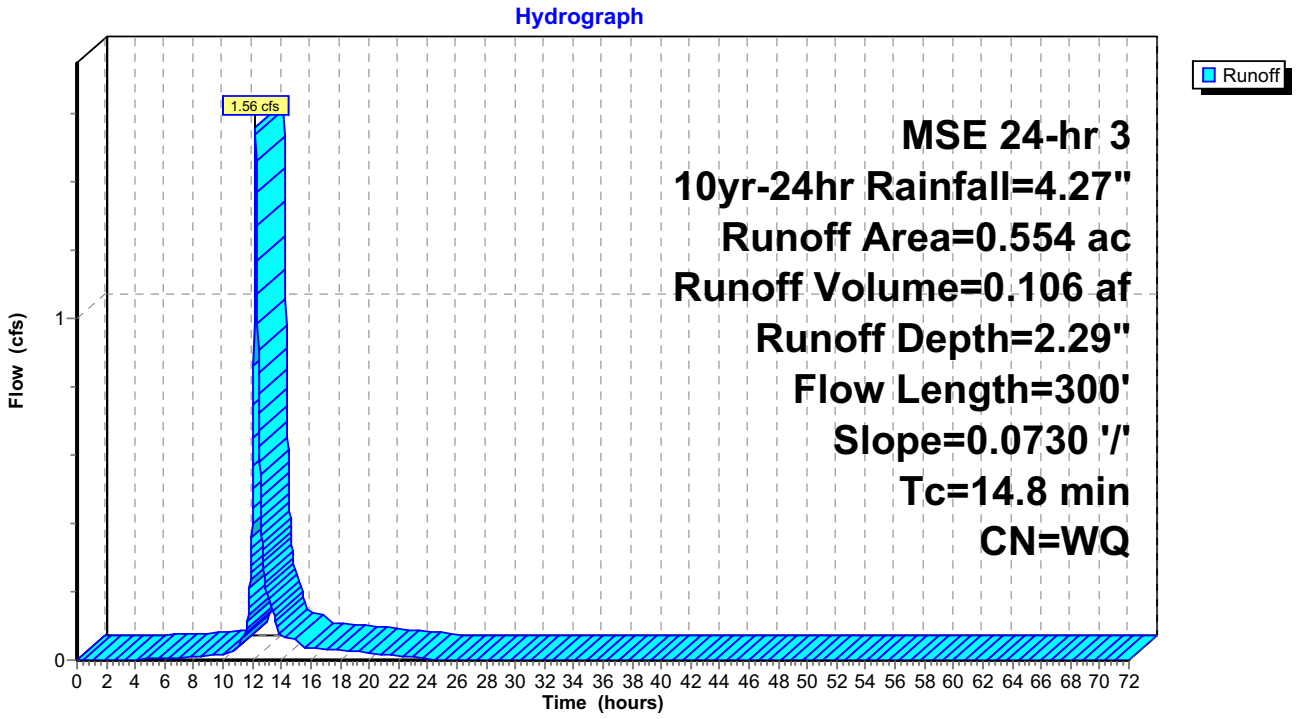
Runoff = 1.56 cfs @ 12.23 hrs, Volume= 0.106 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.318	74	>75% Grass cover, Good, HSG C
*	0.126	98	Impervious
	0.110	73	Woods, Fair, HSG C
	0.554		Weighted Average
	0.428		77.26% Pervious Area
	0.126		22.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.8	300	0.0730	0.34		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment 1N_100: 1N_100



Summary for Subcatchment 1S: 1S

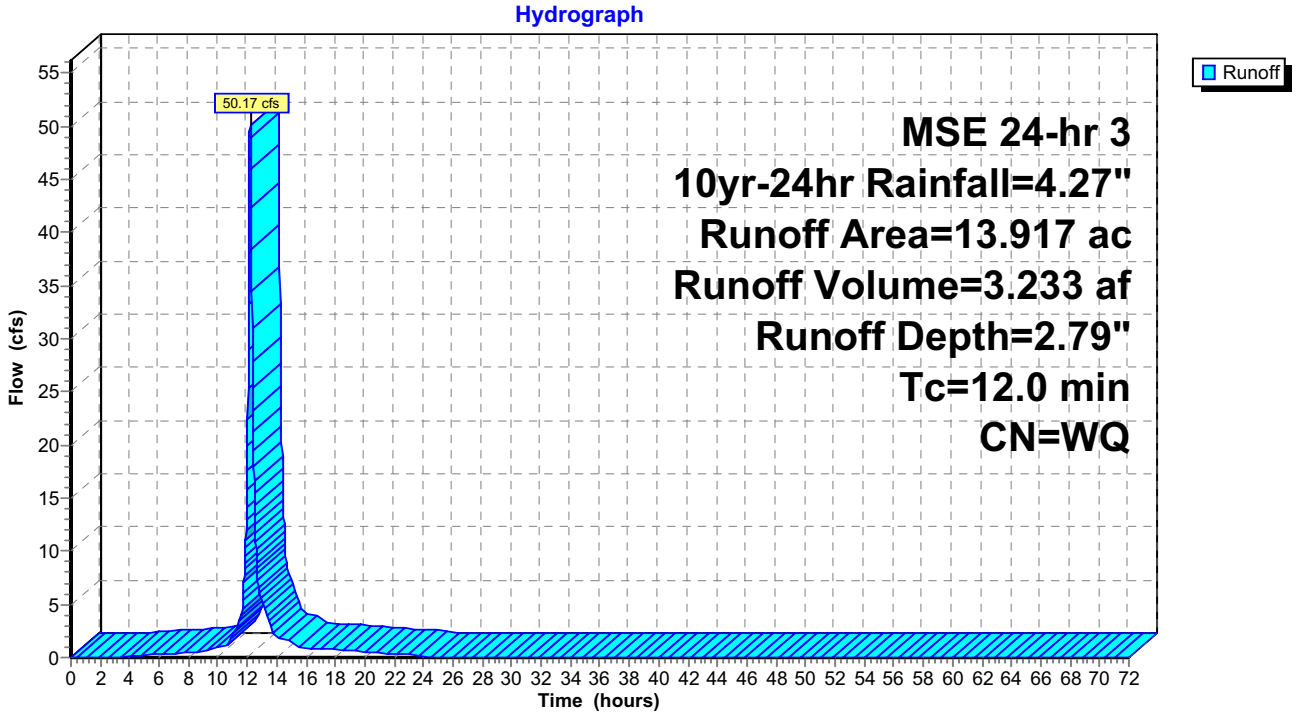
Runoff = 50.17 cfs @ 12.20 hrs, Volume= 3.233 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	5.037	98	Impervious
	1.856	61	>75% Grass cover, Good, HSG B
	3.783	74	>75% Grass cover, Good, HSG C
	1.419	74	>75% Grass cover, Good, HSG C
*	1.822	98	Pond
	13.917		Weighted Average
	7.058		50.71% Pervious Area
	6.859		49.29% Impervious Area

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

Subcatchment 1S: 1S



Hollydale - Proposed Conditions - 6.25.2020
Prepared by AE2S
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Summary for Subcatchment 2S: 2S

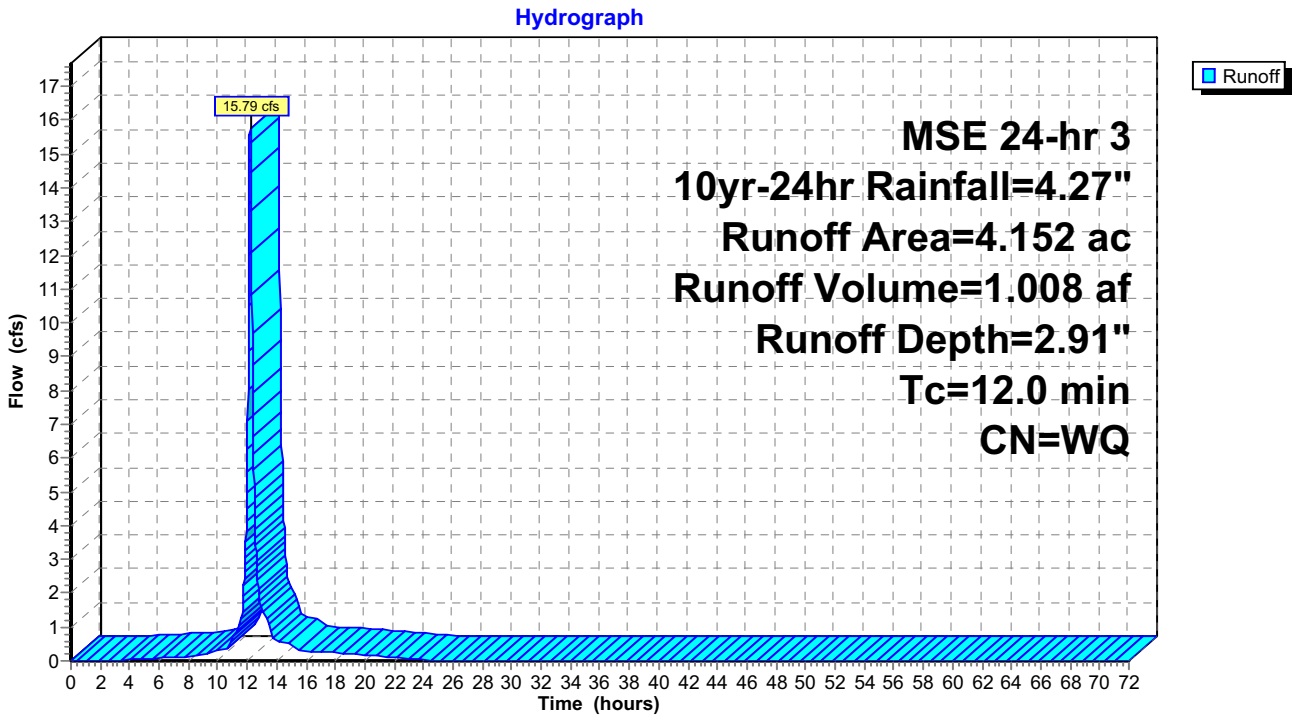
Runoff = 15.79 cfs @ 12.20 hrs, Volume= 1.008 af, Depth= 2.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	1.594	98	Impervious
	2.082	74	>75% Grass cover, Good, HSG C
*	0.476	98	Pond
	4.152		Weighted Average
	2.082		50.14% Pervious Area
	2.070		49.86% Impervious Area

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

Subcatchment 2S: 2S



Summary for Subcatchment 3S: 3S

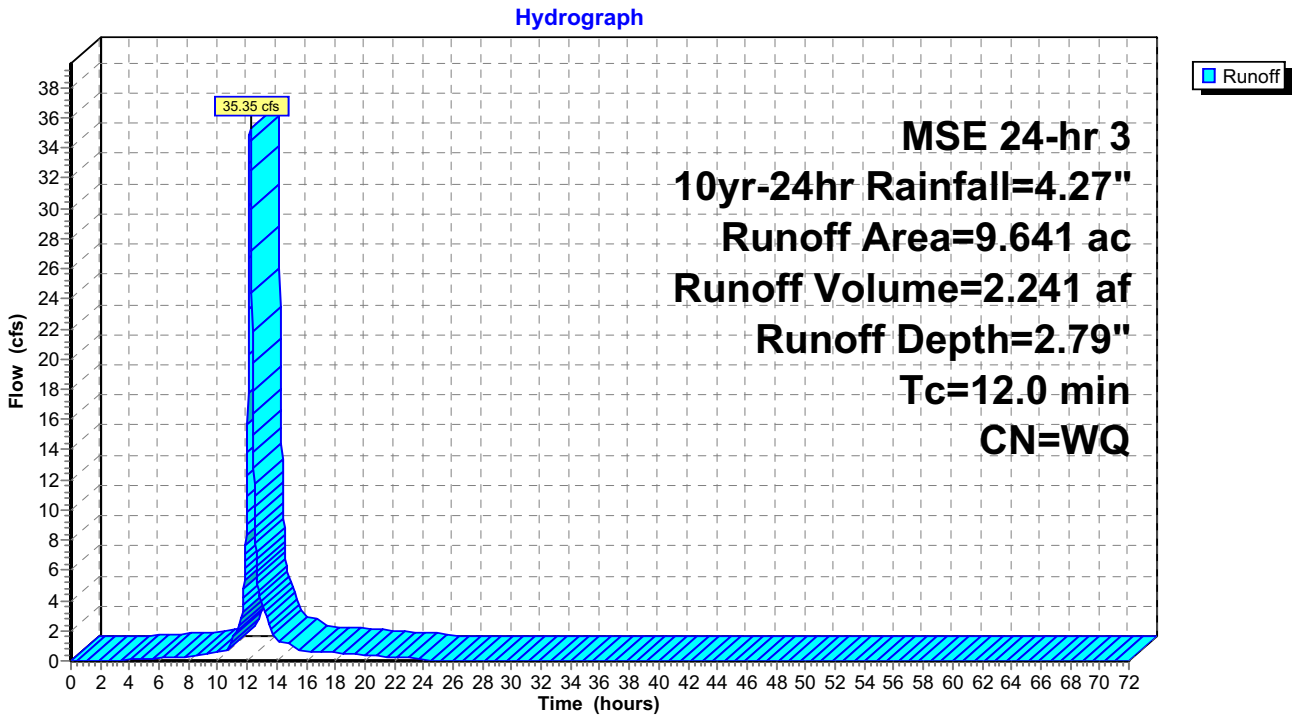
Runoff = 35.35 cfs @ 12.20 hrs, Volume= 2.241 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	3.484	98	Impervious
	5.363	74	>75% Grass cover, Good, HSG C
*	0.794	98	Pond
	9.641		Weighted Average
	5.363		55.63% Pervious Area
	4.278		44.37% Impervious Area

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

Subcatchment 3S: 3S



Summary for Subcatchment 3S_100: 3S_100

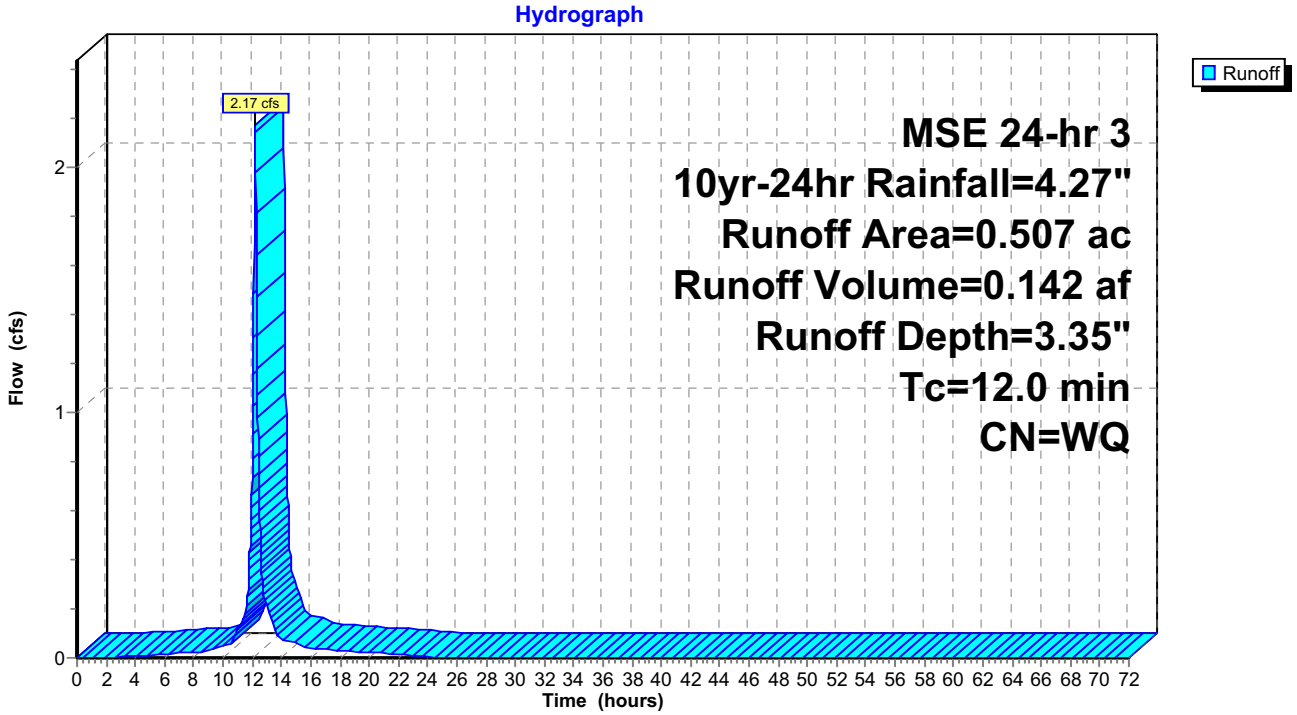
Runoff = 2.17 cfs @ 12.19 hrs, Volume= 0.142 af, Depth= 3.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.352	98	Impervious
	0.031	74	>75% Grass cover, Good, HSG C
	0.124	74	>75% Grass cover, Good, HSG C
	0.507		Weighted Average
	0.155		30.57% Pervious Area
	0.352		69.43% Impervious Area

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

Subcatchment 3S_100: 3S_100



Summary for Subcatchment 4S: 4S

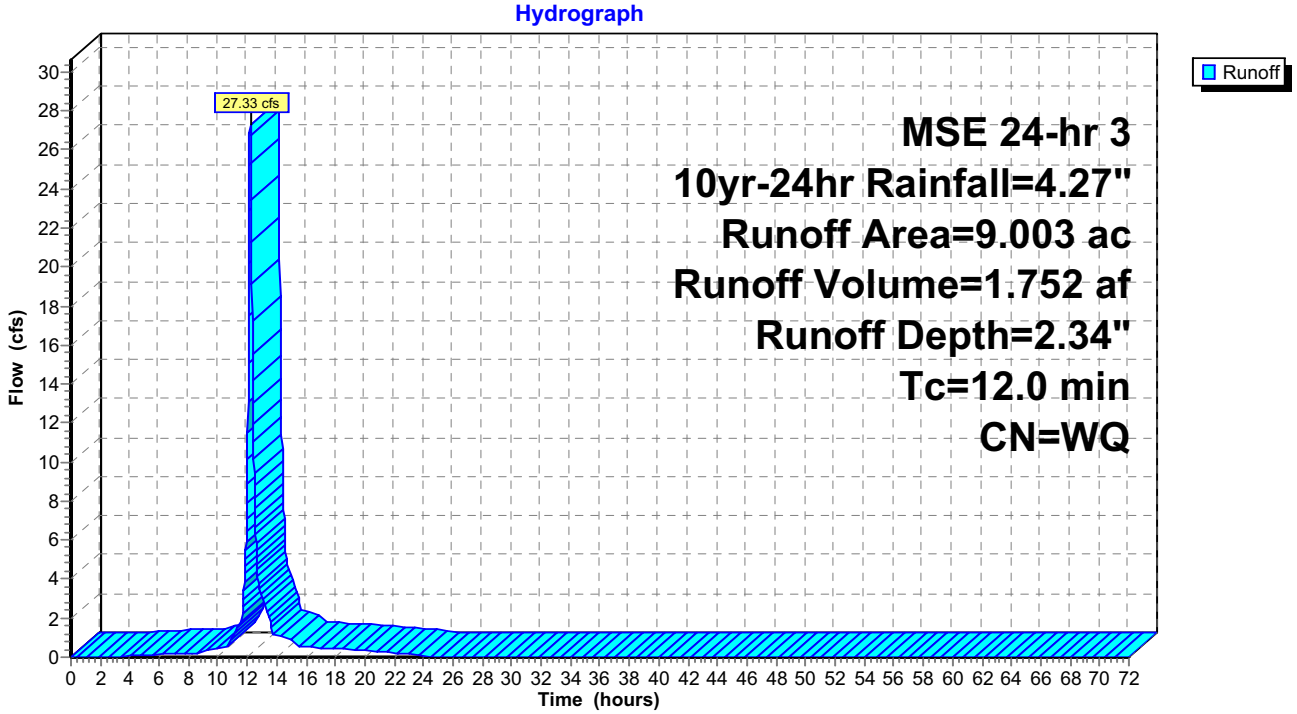
Runoff = 27.33 cfs @ 12.20 hrs, Volume= 1.752 af, Depth= 2.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	2.416	98	Impervious
	2.605	61	>75% Grass cover, Good, HSG B
	2.644	74	>75% Grass cover, Good, HSG C
	0.606	74	>75% Grass cover, Good, HSG C
*	0.680	98	Pond
*	0.052	98	Impervious
	9.003		Weighted Average
	5.855		65.03% Pervious Area
	3.148		34.97% Impervious Area

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

Subcatchment 4S: 4S



Summary for Subcatchment 5S: 5S

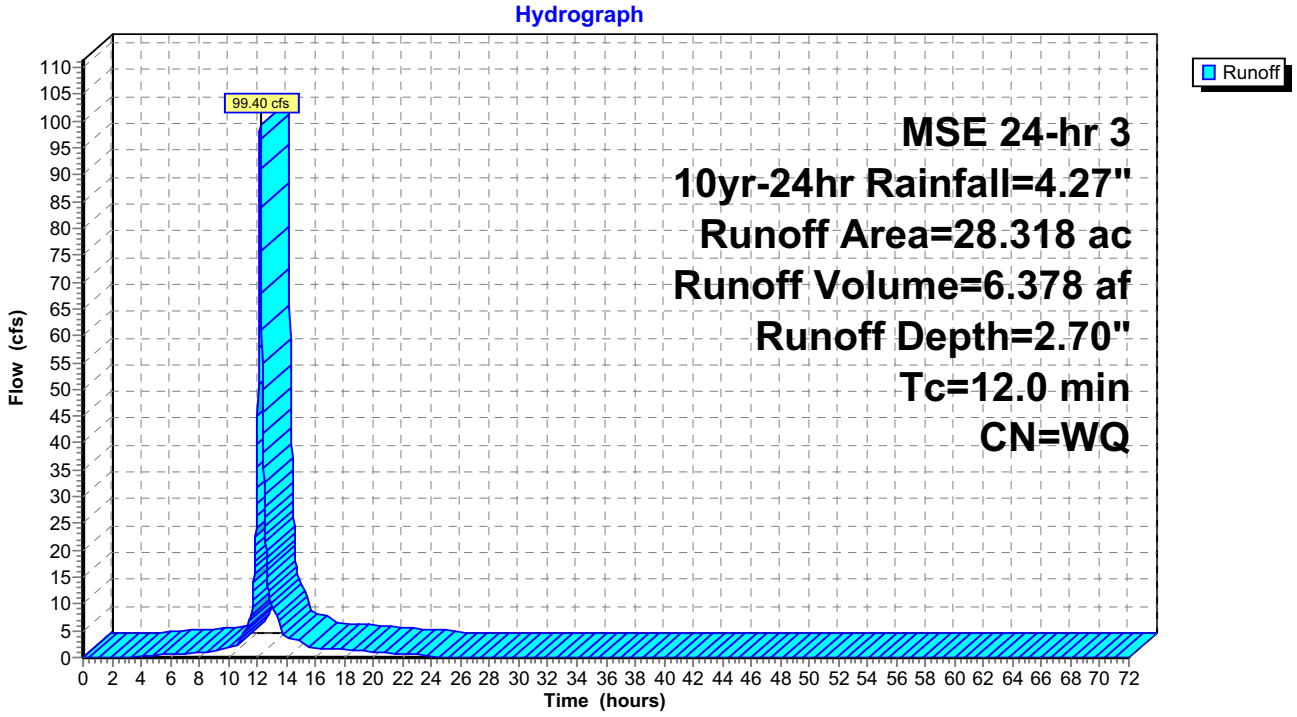
Runoff = 99.40 cfs @ 12.20 hrs, Volume= 6.378 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	9.363	98	Impervious
	2.568	39	>75% Grass cover, Good, HSG A
	7.864	74	>75% Grass cover, Good, HSG C
	4.450	74	>75% Grass cover, Good, HSG C
*	4.073	98	Pond
	28.318		Weighted Average
	14.882		52.55% Pervious Area
	13.436		47.45% Impervious Area

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

Subcatchment 5S: 5S



Summary for Subcatchment 5S_100: 5S_100

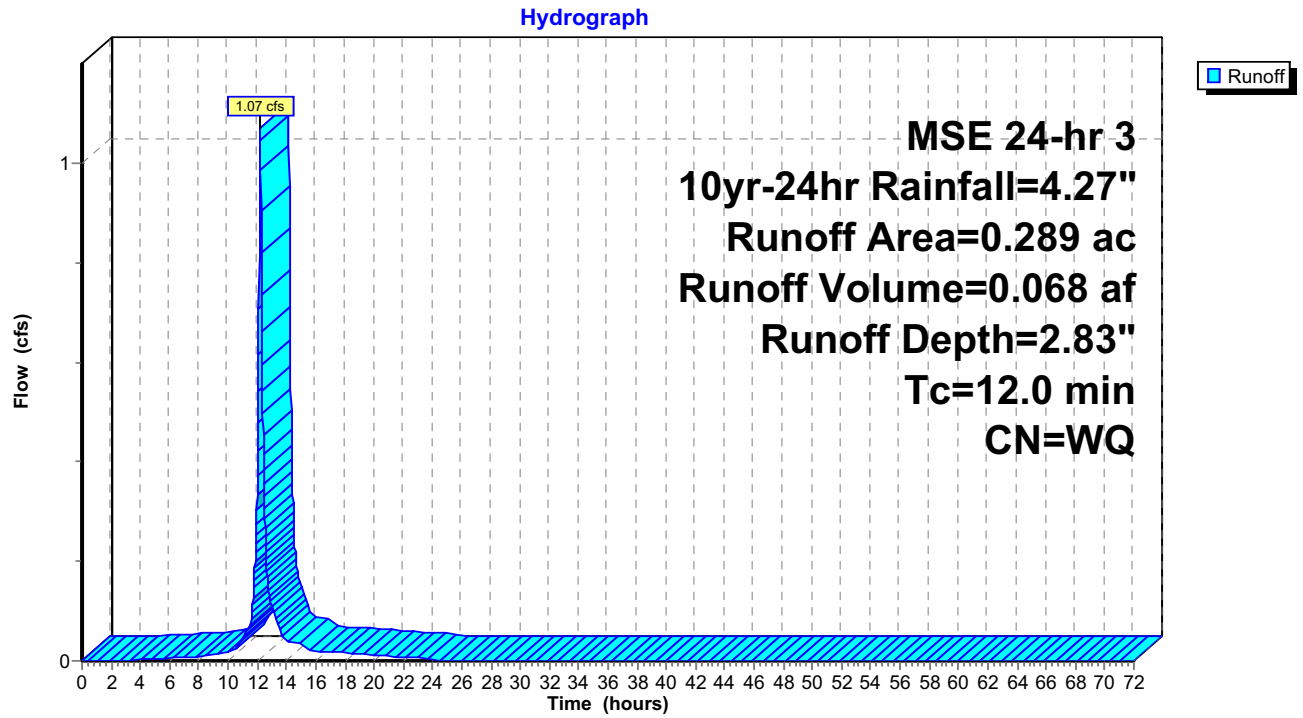
Runoff = 1.07 cfs @ 12.20 hrs, Volume= 0.068 af, Depth= 2.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.078	98	Impervious
	0.156	74	>75% Grass cover, Good, HSG C
*	0.055	98	Impervious
	0.289		Weighted Average
	0.156		53.98% Pervious Area
	0.133		46.02% Impervious Area

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

Subcatchment 5S_100: 5S_100



Summary for Subcatchment 1000: 1000

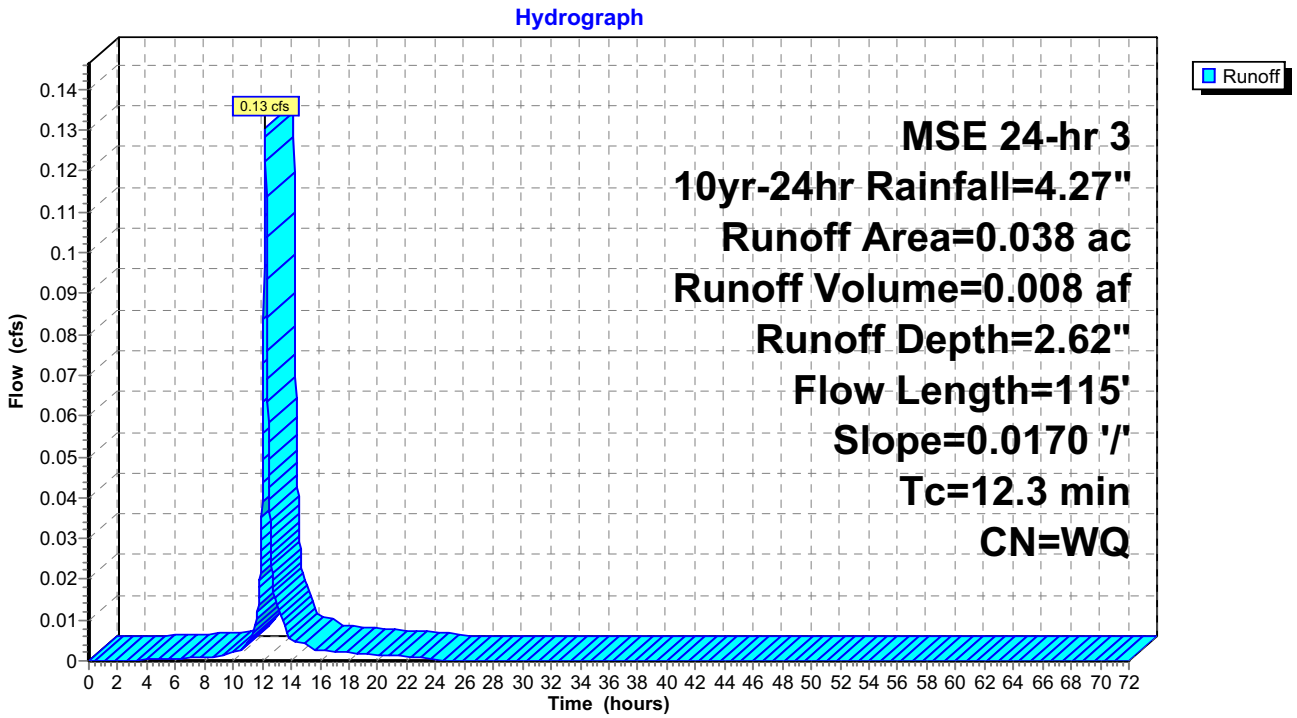
Runoff = 0.13 cfs @ 12.20 hrs, Volume= 0.008 af, Depth= 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.014	98	Impervious
	0.024	74	>75% Grass cover, Good, HSG C
	0.038		Weighted Average
	0.024		63.16% Pervious Area
	0.014		36.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	115	0.0170	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment 1000: 1000



Summary for Subcatchment A10: A10

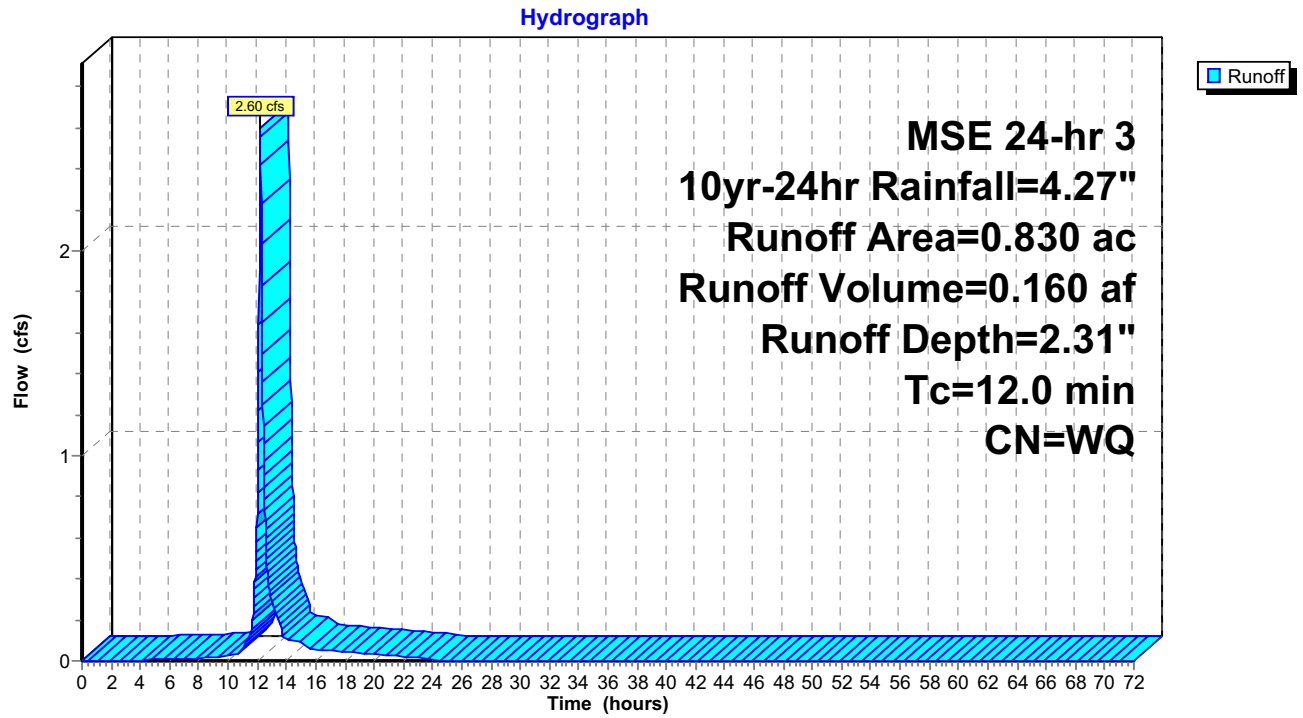
Runoff = 2.60 cfs @ 12.20 hrs, Volume= 0.160 af, Depth= 2.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.132	98	Impervious
	0.641	74	>75% Grass cover, Good, HSG C
*	0.057	98	Impervious
	0.830		Weighted Average
	0.641		77.23% Pervious Area
	0.189		22.77% Impervious Area

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

Subcatchment A10: A10



Summary for Subcatchment A10_100: A10_100

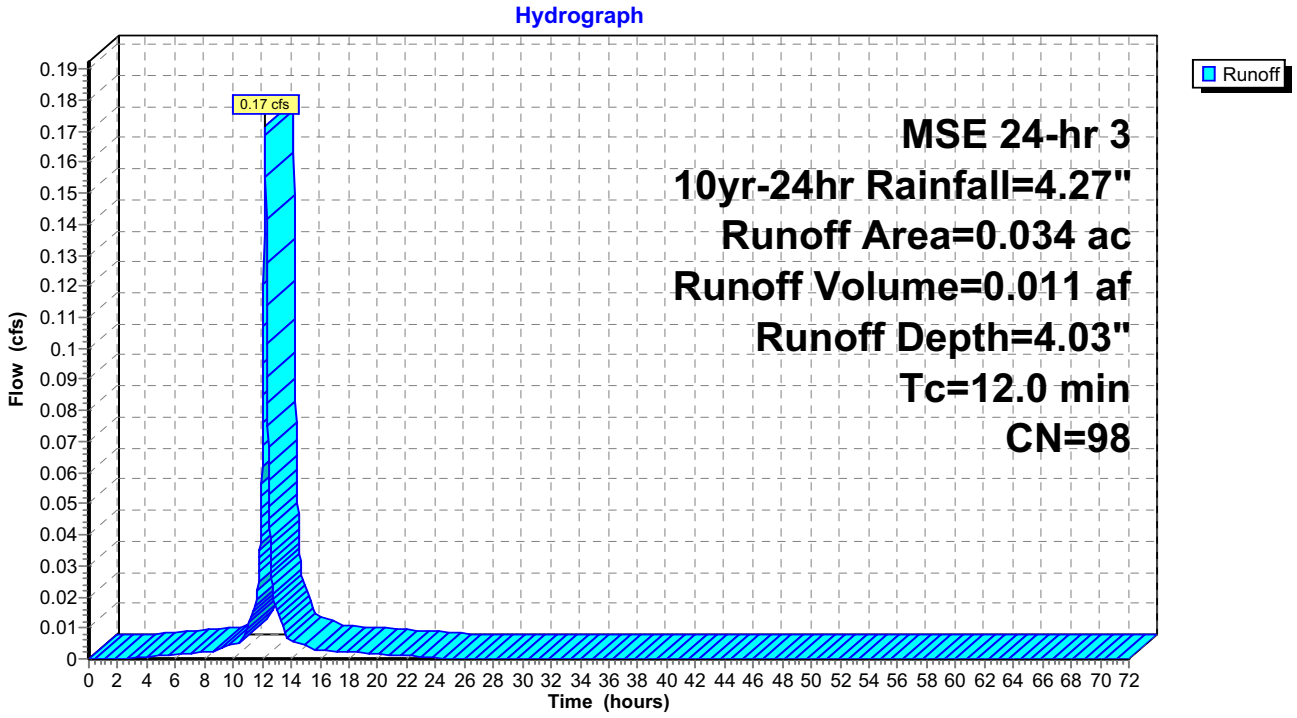
Runoff = 0.17 cfs @ 12.19 hrs, Volume= 0.011 af, Depth= 4.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.034	98	Impervious
	0.034		100.00% Impervious Area

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

Subcatchment A10_100: A10_100



Summary for Subcatchment A15: A15

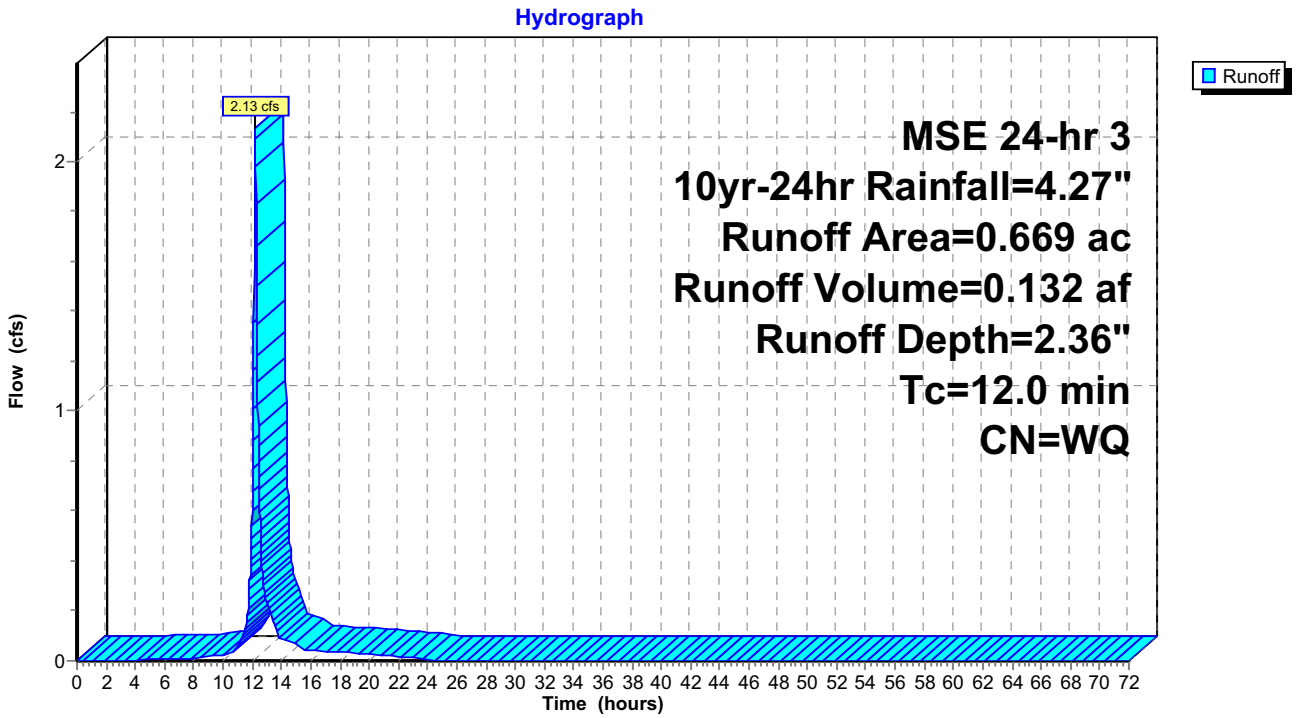
Runoff = 2.13 cfs @ 12.20 hrs, Volume= 0.132 af, Depth= 2.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.119	98	Impervious
	0.501	74	>75% Grass cover, Good, HSG C
*	0.049	98	Impervious
	0.669		Weighted Average
	0.501		74.89% Pervious Area
	0.168		25.11% Impervious Area

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

Subcatchment A15: A15



Summary for Subcatchment A15_100: A15_100

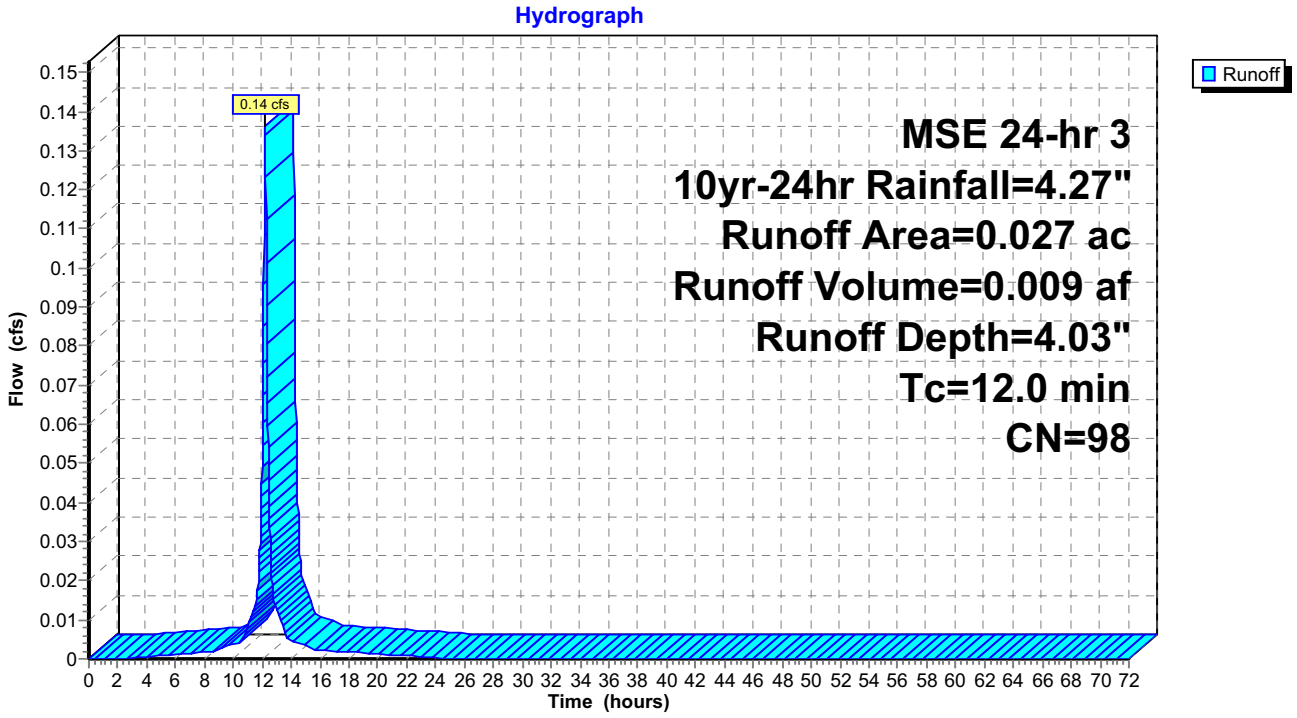
Runoff = 0.14 cfs @ 12.19 hrs, Volume= 0.009 af, Depth= 4.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.027	98	Impervious
	0.027		100.00% Impervious Area

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

Subcatchment A15_100: A15_100



Summary for Subcatchment A8: A8

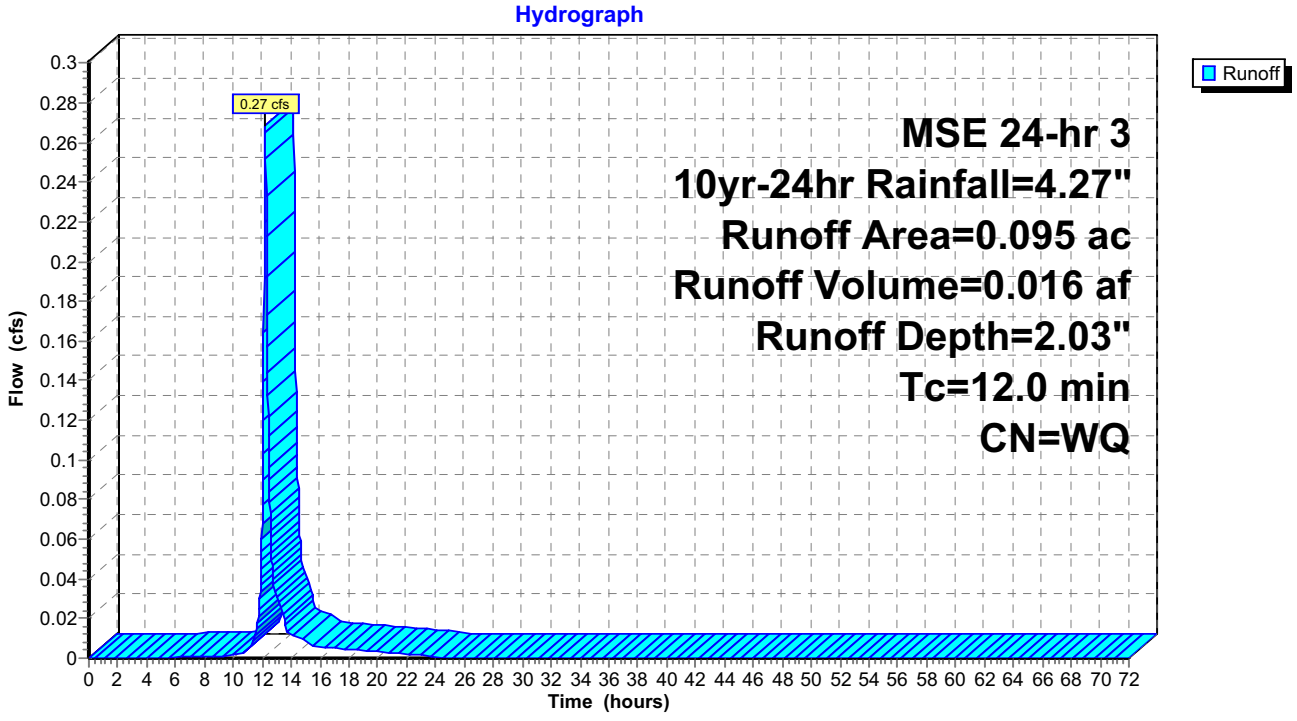
Runoff = 0.27 cfs @ 12.20 hrs, Volume= 0.016 af, Depth= 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.010	98	Impervious
	0.085	74	>75% Grass cover, Good, HSG C
	0.095		Weighted Average
	0.085		89.47% Pervious Area
	0.010		10.53% Impervious Area

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

Subcatchment A8: A8



Summary for Subcatchment A9: A9

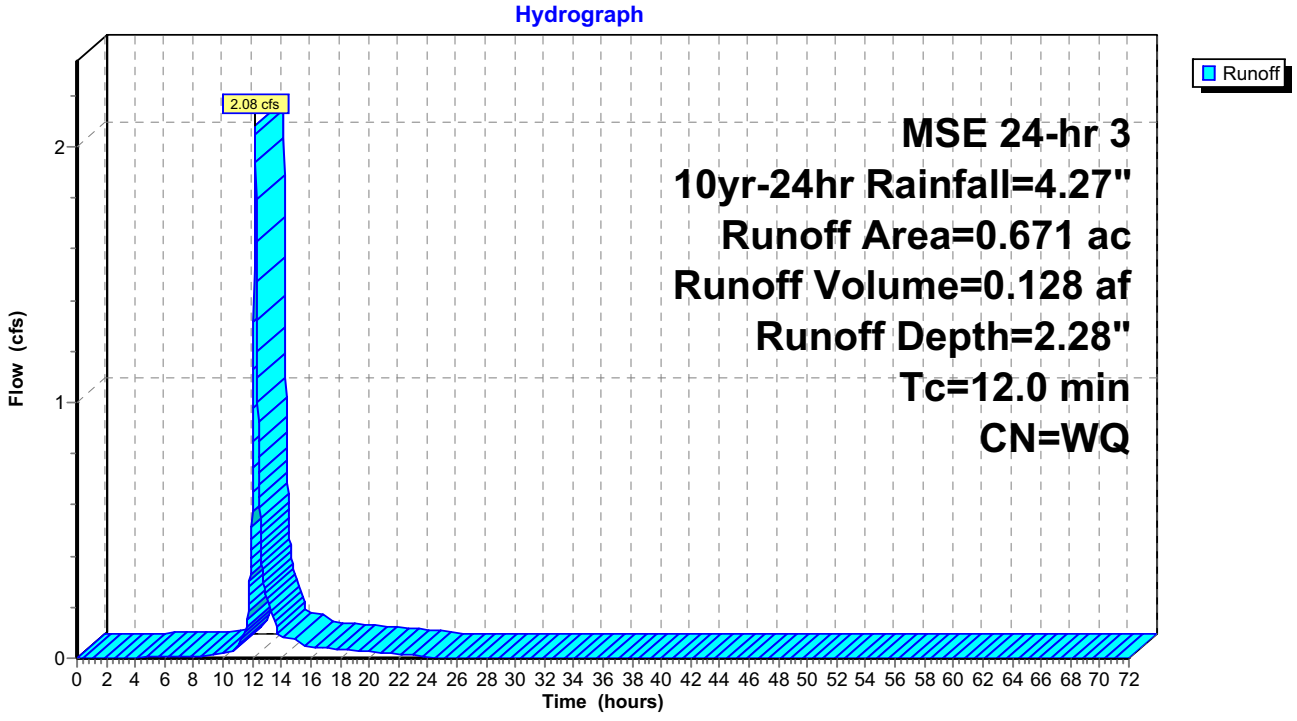
Runoff = 2.08 cfs @ 12.20 hrs, Volume= 0.128 af, Depth= 2.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.145	98	Impervious
	0.526	74	>75% Grass cover, Good, HSG C
	0.671		Weighted Average
	0.526		78.39% Pervious Area
	0.145		21.61% Impervious Area

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

Subcatchment A9: A9



Summary for Subcatchment B5: B5

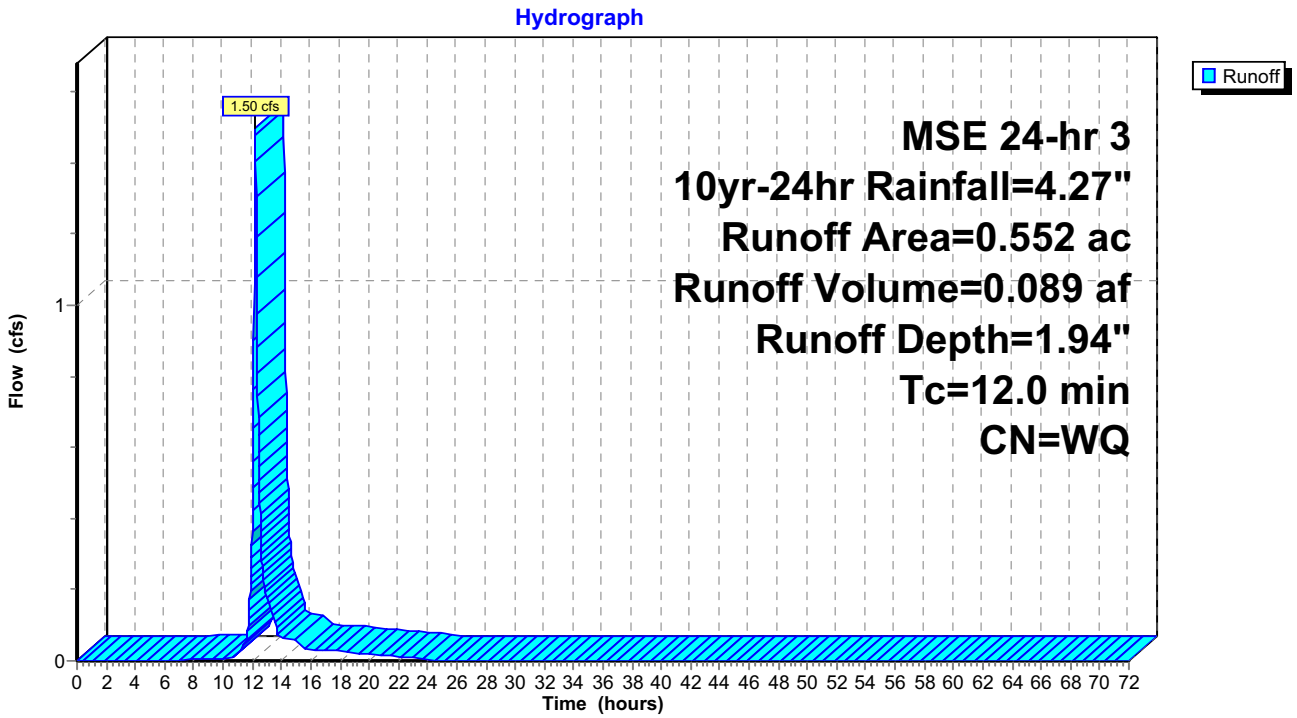
Runoff = 1.50 cfs @ 12.20 hrs, Volume= 0.089 af, Depth= 1.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.040	98	Impervious
	0.358	74	>75% Grass cover, Good, HSG C
	0.154	73	Woods, Fair, HSG C
	0.552		Weighted Average
	0.512		92.75% Pervious Area
	0.040		7.25% Impervious Area

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

Subcatchment B5: B5



Summary for Subcatchment B6: B6

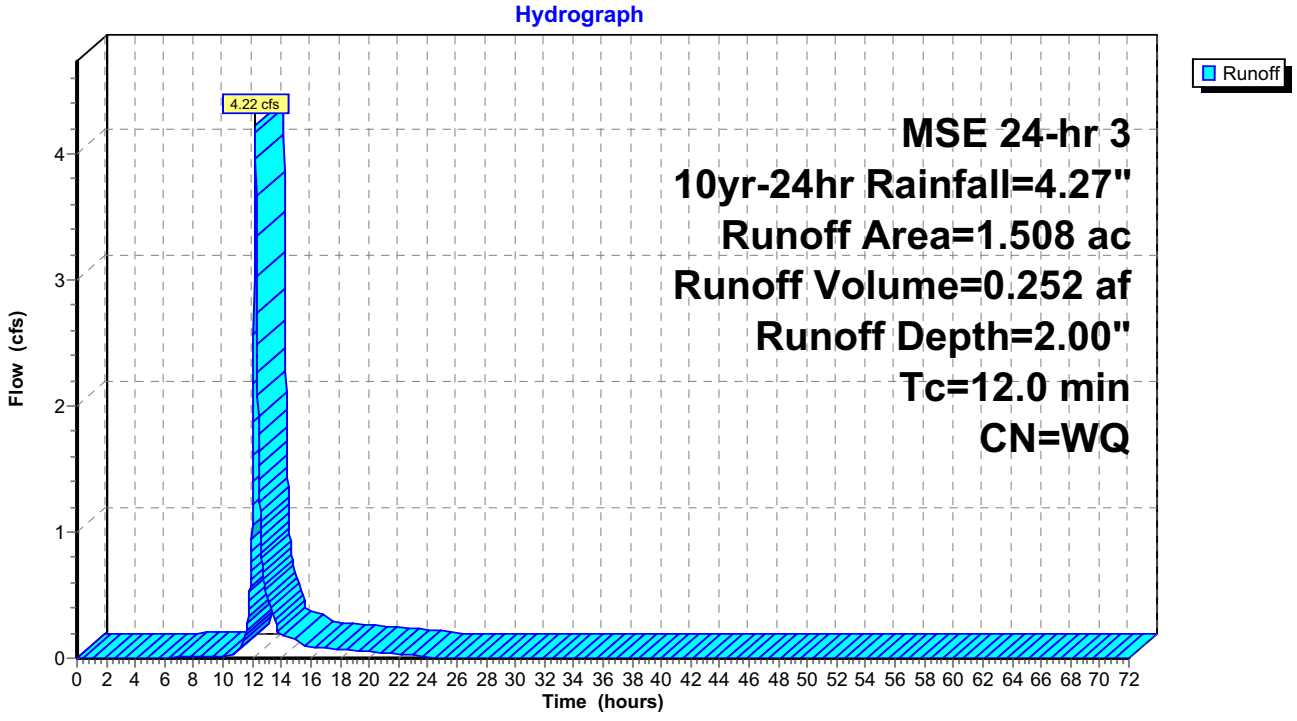
Runoff = 4.22 cfs @ 12.20 hrs, Volume= 0.252 af, Depth= 2.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.140	98	Impervious
	1.368	74	>75% Grass cover, Good, HSG C
	1.508		Weighted Average
	1.368		90.72% Pervious Area
	0.140		9.28% Impervious Area

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

Subcatchment B6: B6



Summary for Subcatchment B7: B7

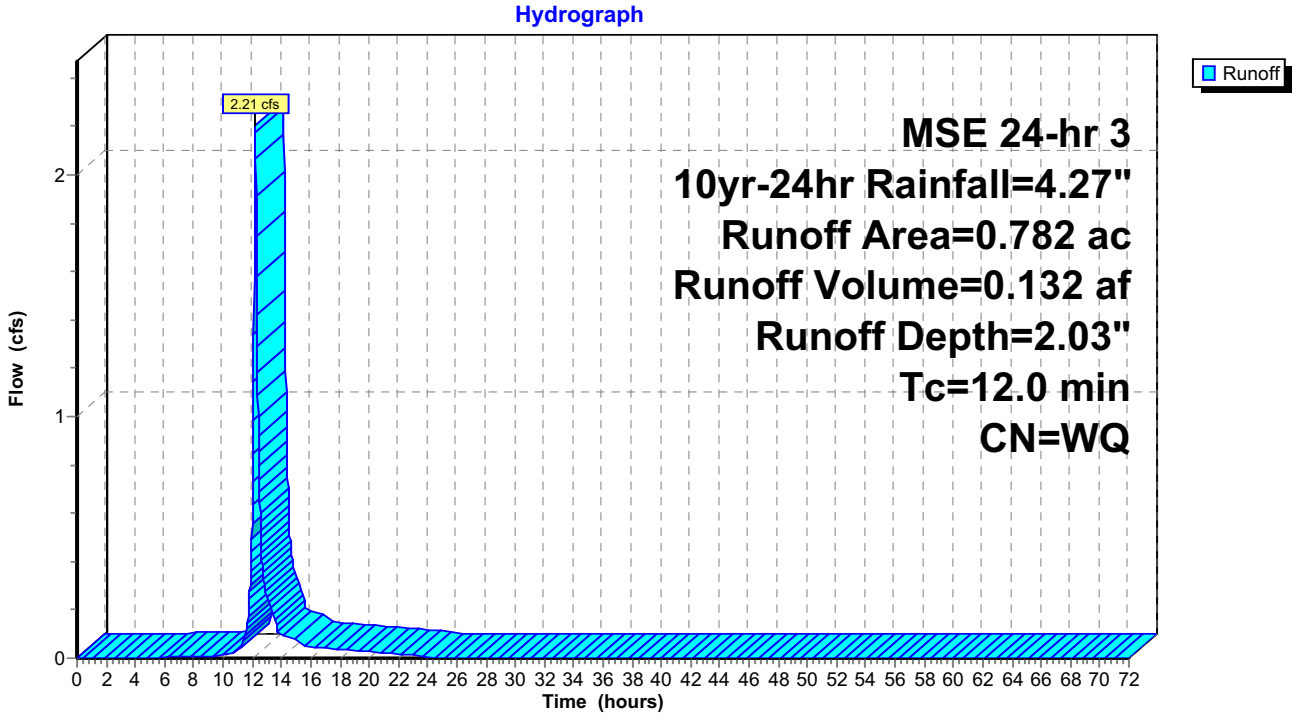
Runoff = 2.21 cfs @ 12.20 hrs, Volume= 0.132 af, Depth= 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.702	74	>75% Grass cover, Good, HSG C
*	0.080	98	Pond
	0.782		Weighted Average
	0.702		89.77% Pervious Area
	0.080		10.23% Impervious Area

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

Subcatchment B7: B7



Summary for Subcatchment B7_100: B7_100

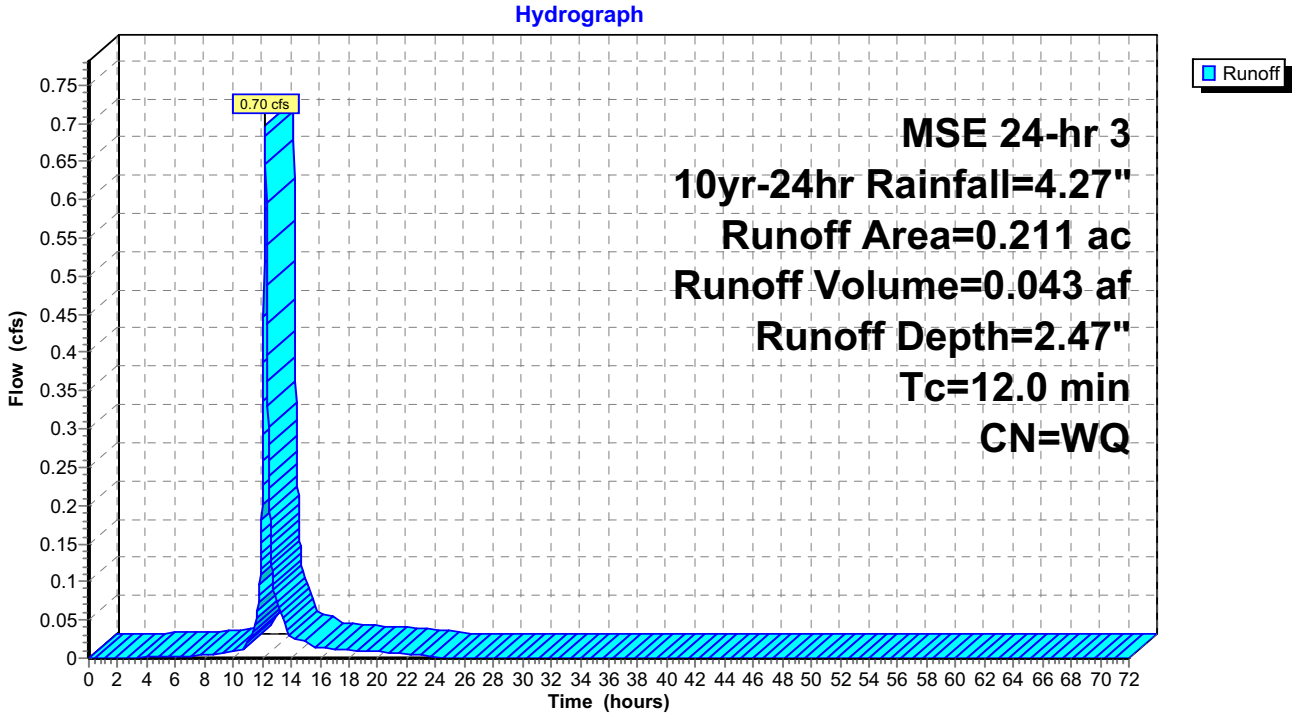
Runoff = 0.70 cfs @ 12.20 hrs, Volume= 0.043 af, Depth= 2.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.148	74	>75% Grass cover, Good, HSG C
*	0.063	98	Impervious
	0.211		Weighted Average
	0.148		70.14% Pervious Area
	0.063		29.86% Impervious Area

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

Subcatchment B7_100: B7_100



Summary for Subcatchment B8: B8

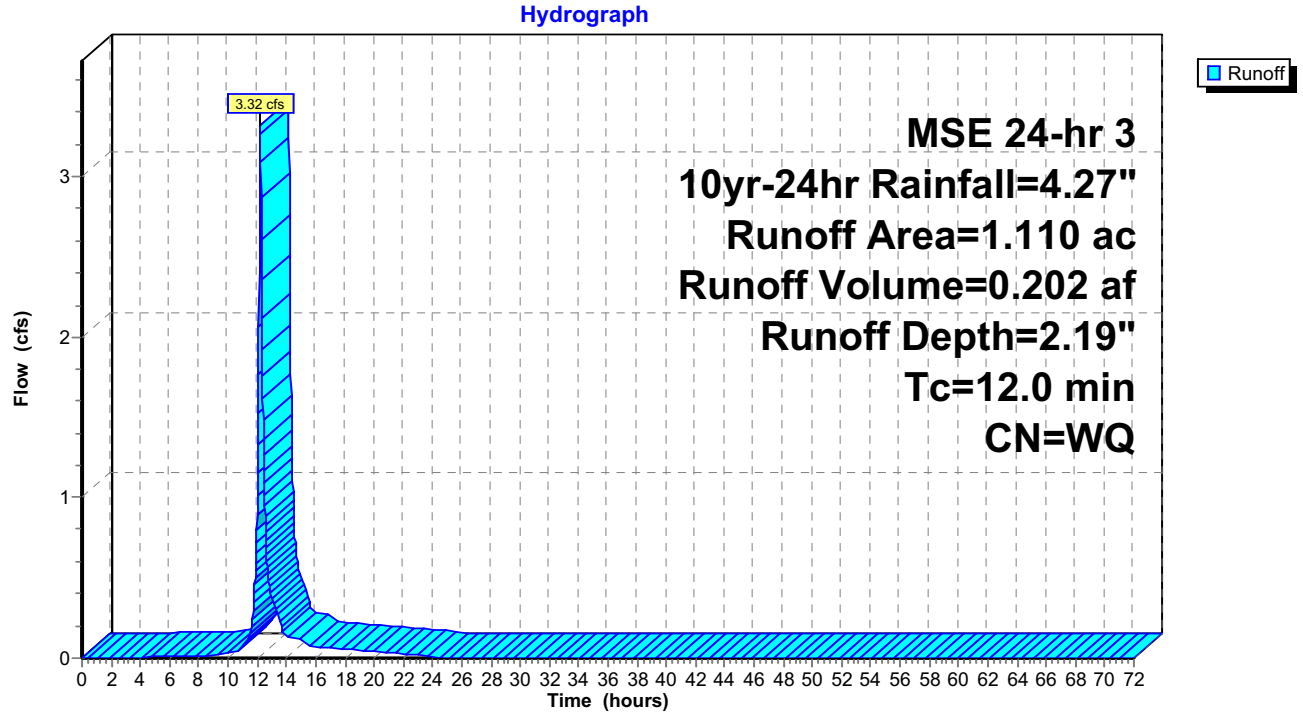
Runoff = 3.32 cfs @ 12.20 hrs, Volume= 0.202 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.127	98	Impervious
	0.747	74	>75% Grass cover, Good, HSG C
*	0.071	98	Impervious
	0.165	73	Woods, Fair, HSG C
	1.110		Weighted Average
	0.912		82.16% Pervious Area
	0.198		17.84% Impervious Area

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

Subcatchment B8: B8



Summary for Subcatchment B8_100: B8_100

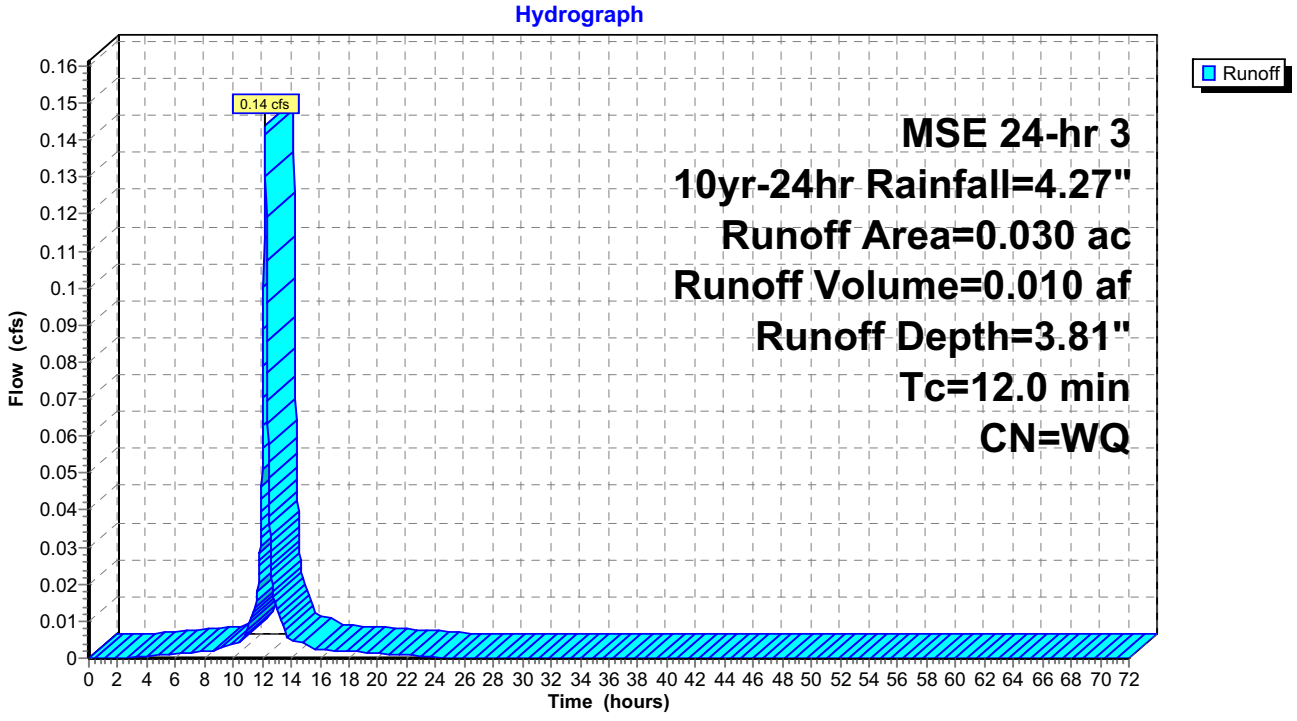
Runoff = 0.14 cfs @ 12.19 hrs, Volume= 0.010 af, Depth= 3.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.003	74	>75% Grass cover, Good, HSG C
*	0.027	98	Impervious
	0.030		Weighted Average
	0.003		10.00% Pervious Area
	0.027		90.00% Impervious Area

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

Subcatchment B8_100: B8_100



Summary for Subcatchment C10: C10

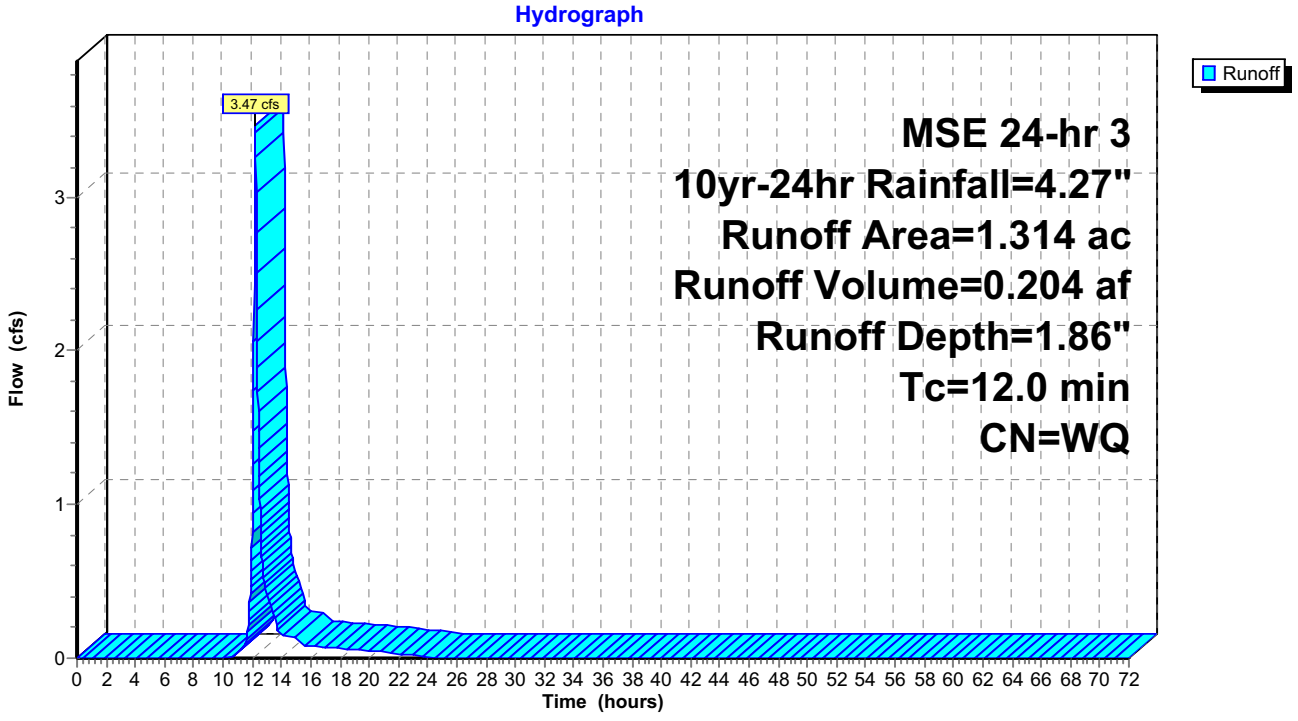
Runoff = 3.47 cfs @ 12.20 hrs, Volume= 0.204 af, Depth= 1.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.036	98	Impervious
	1.278	74	>75% Grass cover, Good, HSG C
	1.314		Weighted Average
	1.278		97.26% Pervious Area
	0.036		2.74% Impervious Area

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

Subcatchment C10: C10



Summary for Subcatchment C10_100: C10_100

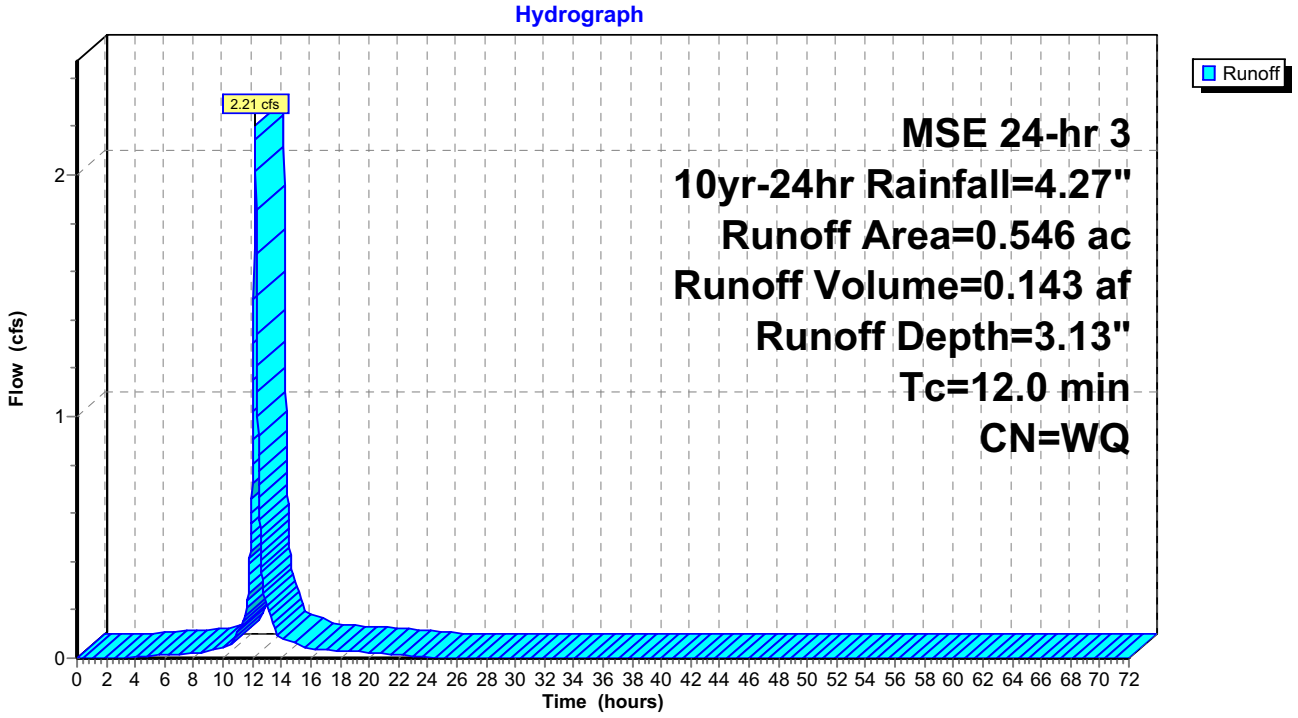
Runoff = 2.21 cfs @ 12.20 hrs, Volume= 0.143 af, Depth= 3.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.220	74	>75% Grass cover, Good, HSG C
*	0.326	98	Impervious
	0.546		Weighted Average
	0.220		40.29% Pervious Area
	0.326		59.71% Impervious Area

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

Subcatchment C10_100: C10_100



Summary for Subcatchment C6: C6

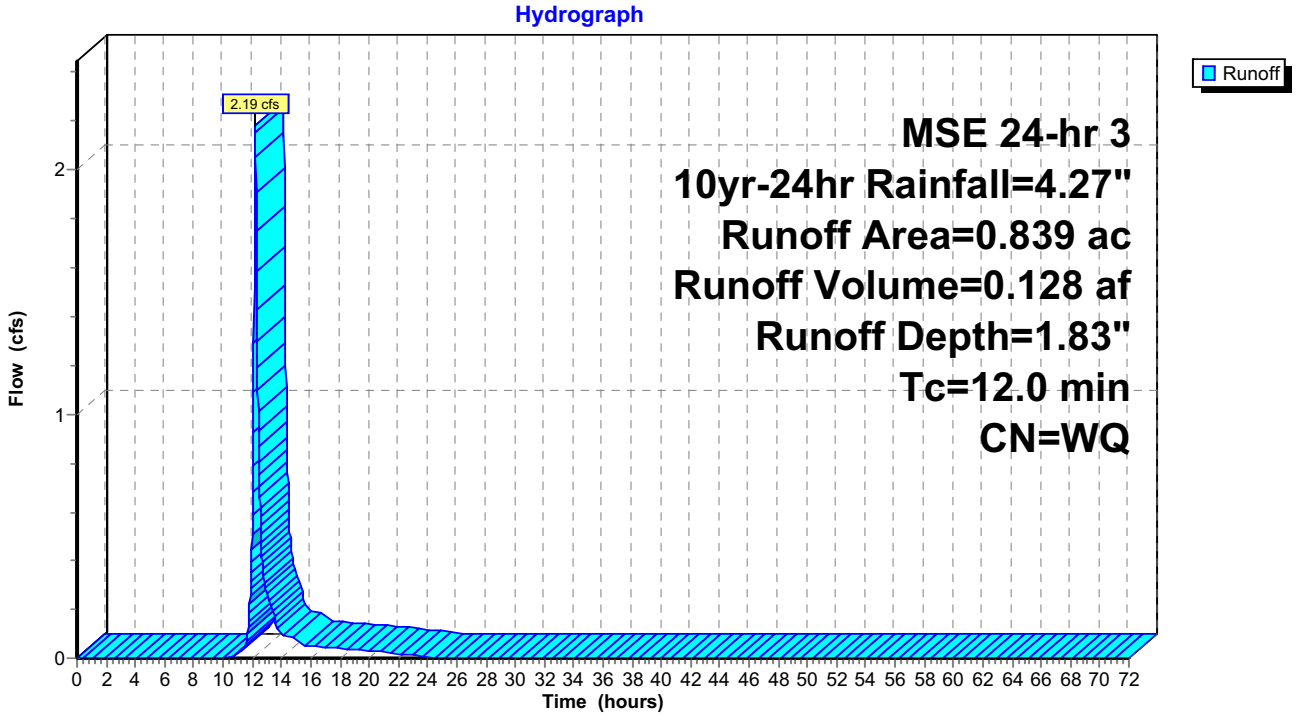
Runoff = 2.19 cfs @ 12.20 hrs, Volume= 0.128 af, Depth= 1.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.011	98	Impervious
	0.828	74	>75% Grass cover, Good, HSG C
	0.839		Weighted Average
	0.828		98.69% Pervious Area
	0.011		1.31% Impervious Area

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

Subcatchment C6: C6



Summary for Subcatchment C7: C7

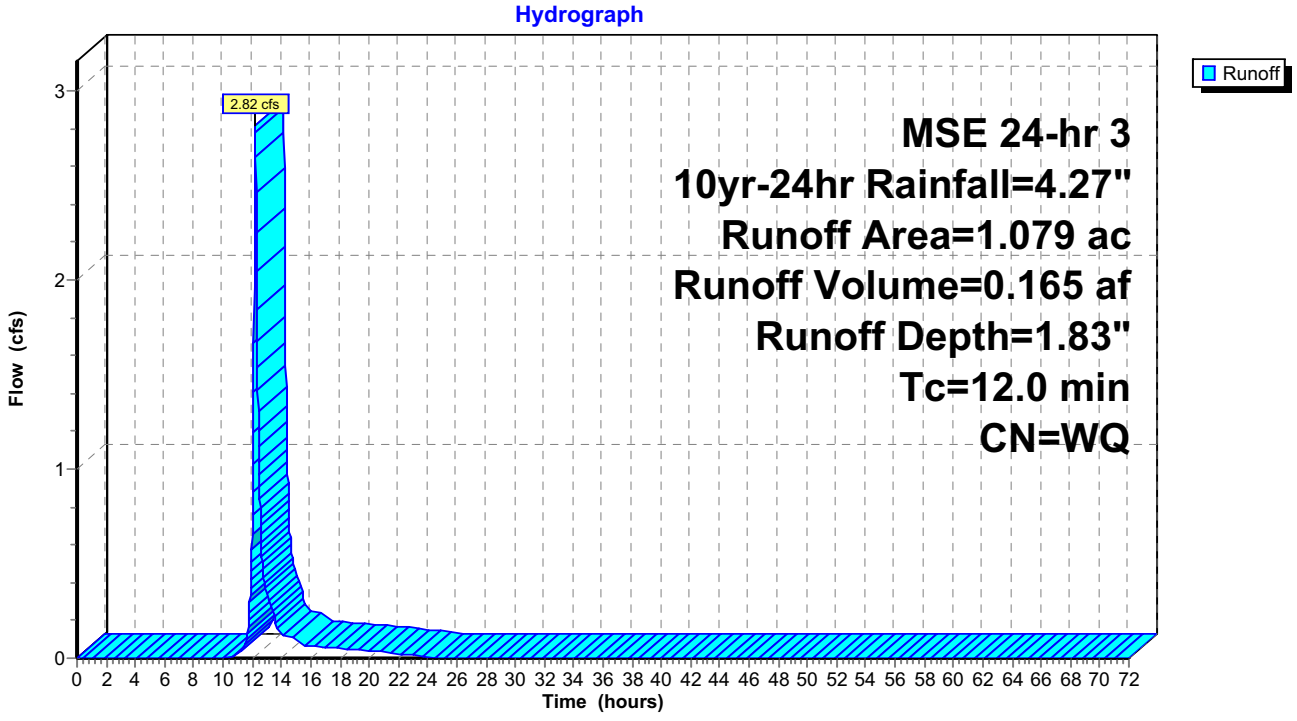
Runoff = 2.82 cfs @ 12.20 hrs, Volume= 0.165 af, Depth= 1.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.018	98	Impervious
	1.061	74	>75% Grass cover, Good, HSG C
	1.079		Weighted Average
	1.061		98.33% Pervious Area
	0.018		1.67% Impervious Area

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

Subcatchment C7: C7



Summary for Subcatchment C7_100: C7_100

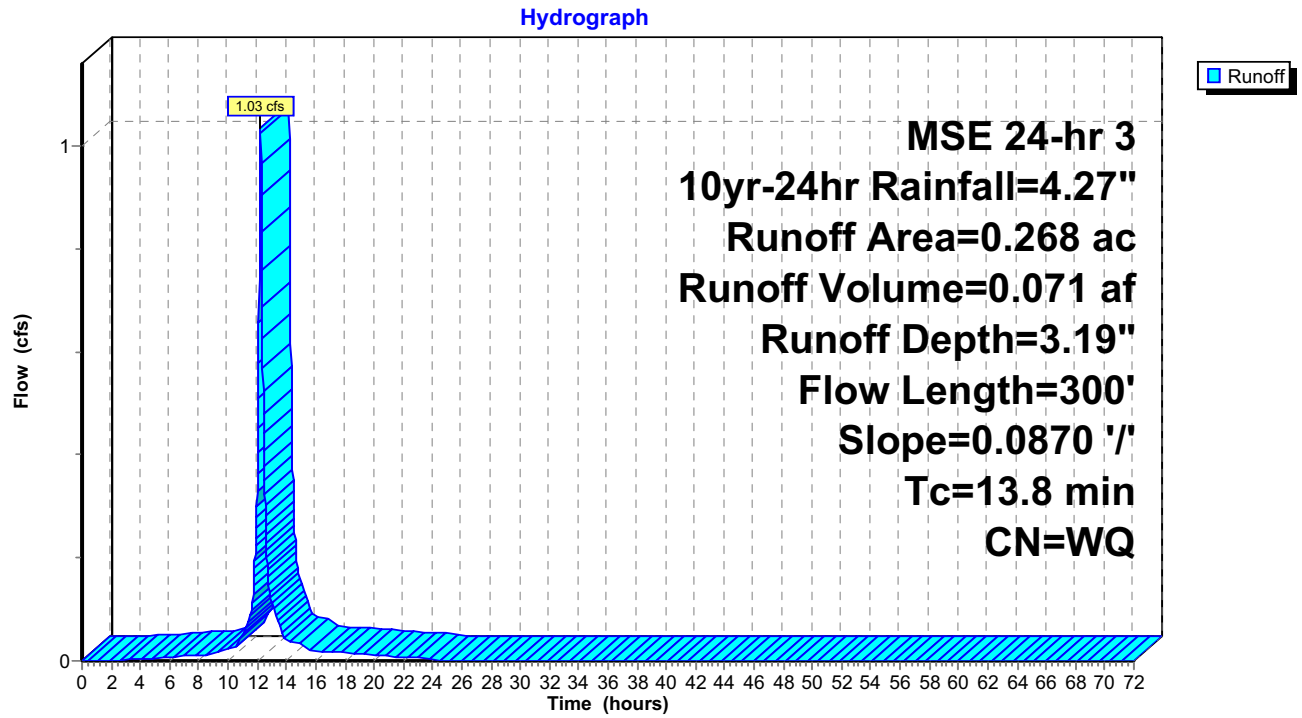
Runoff = 1.03 cfs @ 12.22 hrs, Volume= 0.071 af, Depth= 3.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.101	74	>75% Grass cover, Good, HSG C
*	0.167	98	Impervious
	0.268		Weighted Average
	0.101		37.69% Pervious Area
	0.167		62.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	300	0.0870	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment C7_100: C7_100



Summary for Subcatchment C8: C8

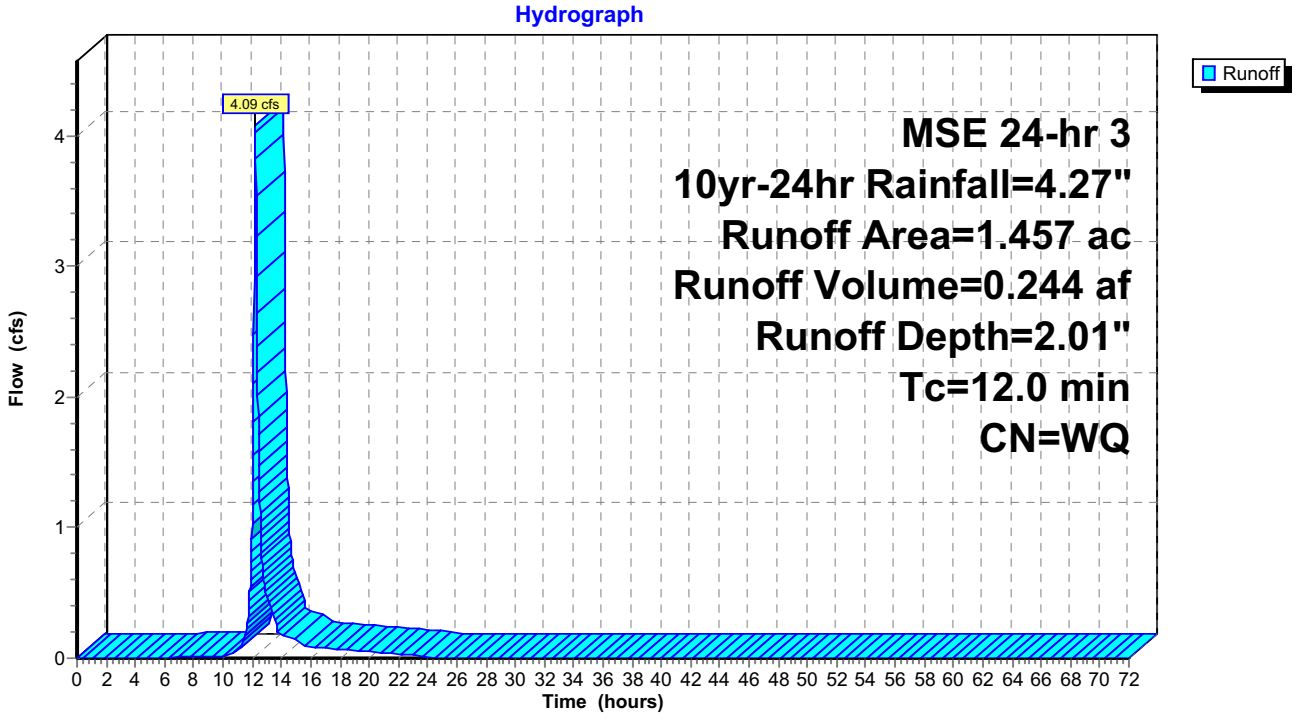
Runoff = 4.09 cfs @ 12.20 hrs, Volume= 0.244 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.138	98	Impervious
	1.319	74	>75% Grass cover, Good, HSG C
	1.457		Weighted Average
	1.319		90.53% Pervious Area
	0.138		9.47% Impervious Area

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

Subcatchment C8: C8



Summary for Subcatchment C8_100: C8_100

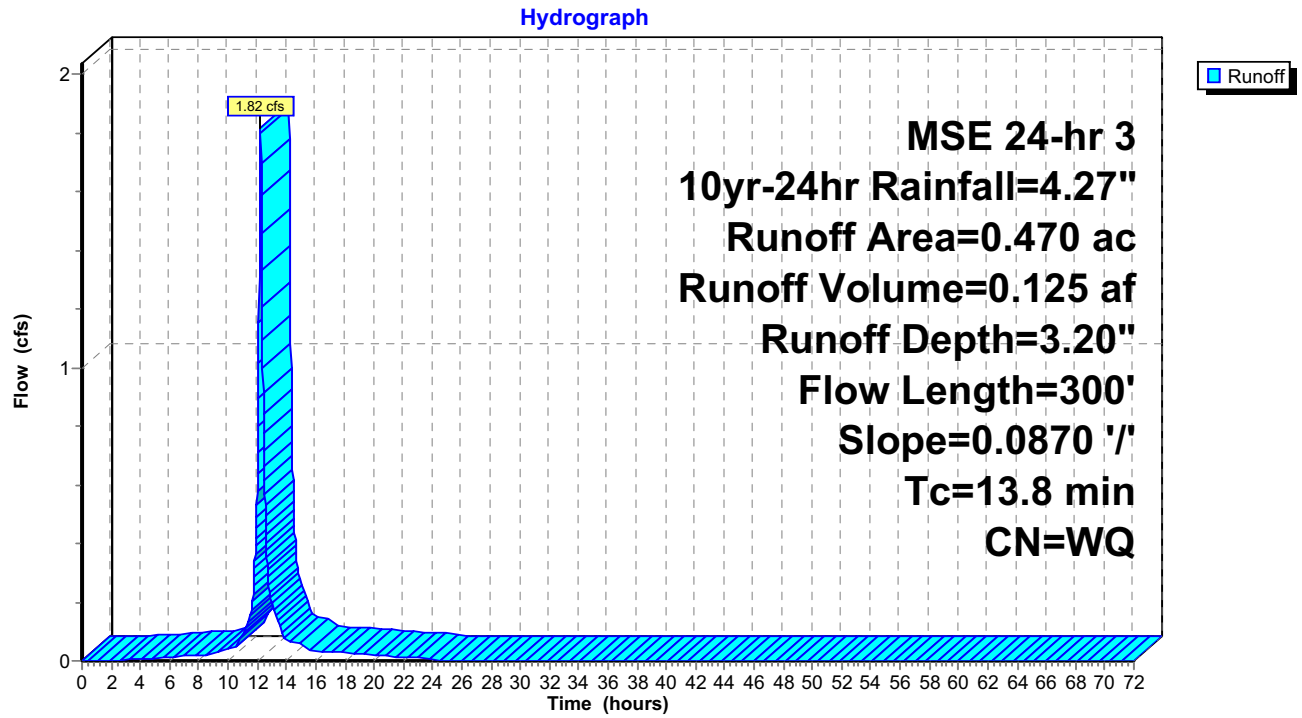
Runoff = 1.82 cfs @ 12.22 hrs, Volume= 0.125 af, Depth= 3.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.175	74	>75% Grass cover, Good, HSG C
*	0.295	98	Impervious
	0.470		Weighted Average
	0.175		37.23% Pervious Area
	0.295		62.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	300	0.0870	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment C8_100: C8_100



Summary for Subcatchment C9: C9

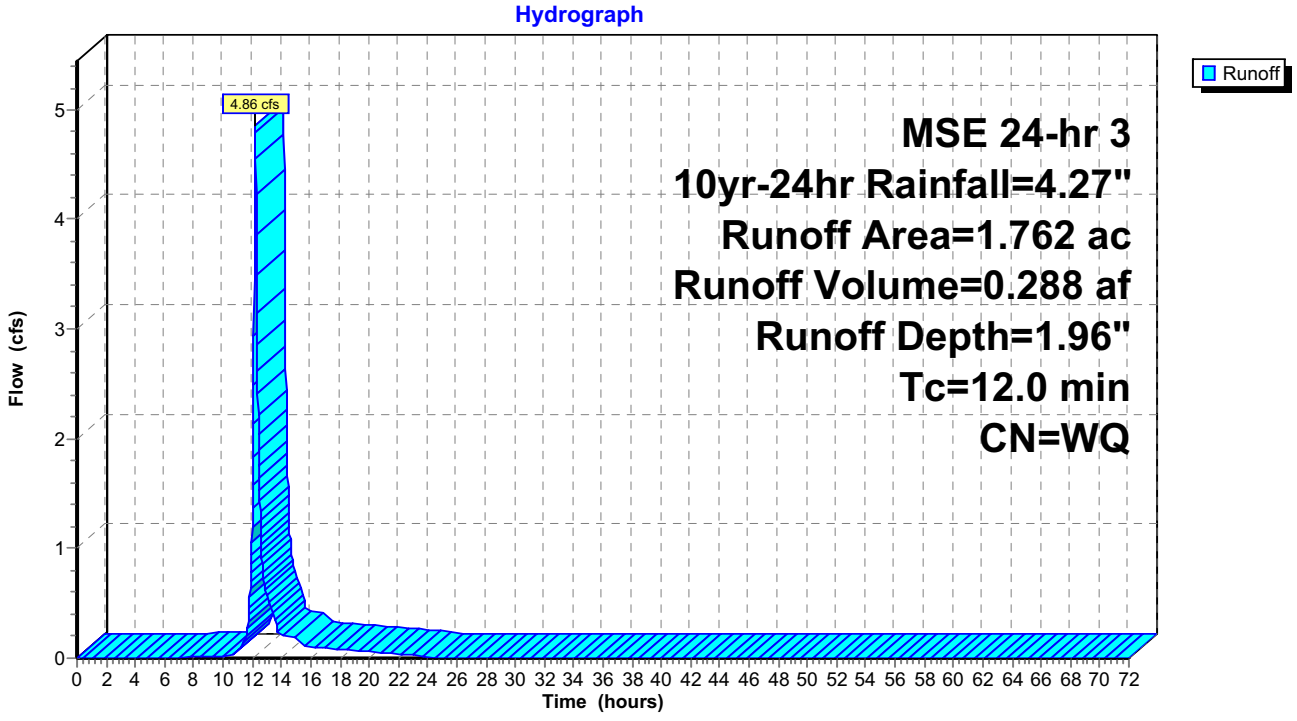
Runoff = 4.86 cfs @ 12.20 hrs, Volume= 0.288 af, Depth= 1.96"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.132	98	Impervious
	1.630	74	>75% Grass cover, Good, HSG C
	1.762		Weighted Average
	1.630		92.51% Pervious Area
	0.132		7.49% Impervious Area

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

Subcatchment C9: C9



Summary for Subcatchment C9_100: C9_100

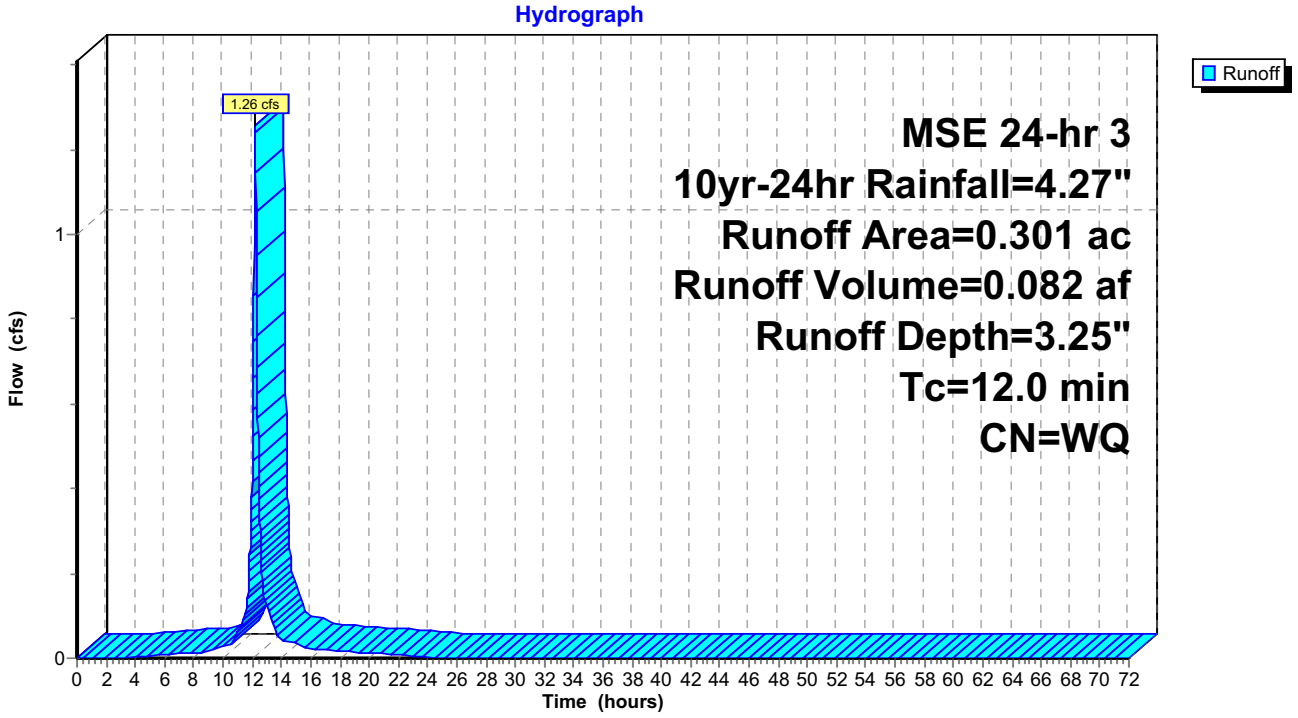
Runoff = 1.26 cfs @ 12.20 hrs, Volume= 0.082 af, Depth= 3.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.105	74	>75% Grass cover, Good, HSG C
*	0.196	98	Impervious
	0.301		Weighted Average
	0.105		34.88% Pervious Area
	0.196		65.12% Impervious Area

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

Subcatchment C9_100: C9_100



Summary for Subcatchment D6: D6

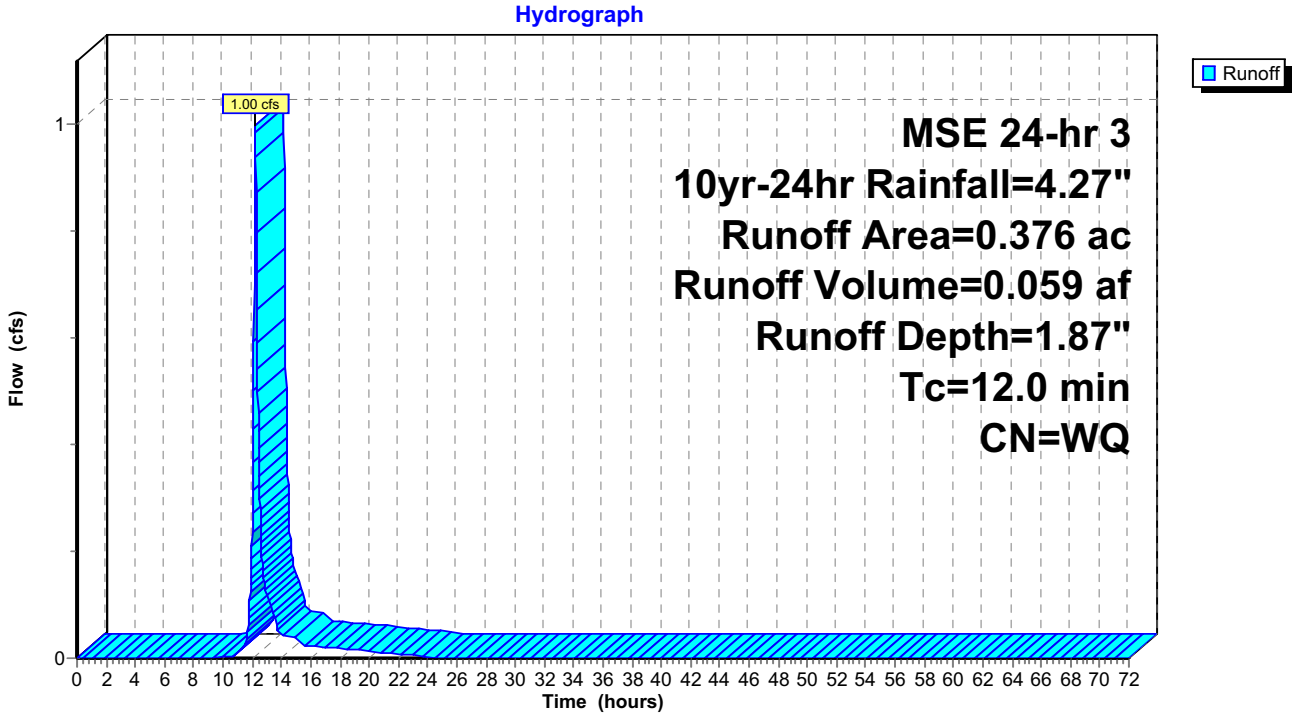
Runoff = 1.00 cfs @ 12.20 hrs, Volume= 0.059 af, Depth= 1.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.013	98	Impervious
	0.363	74	>75% Grass cover, Good, HSG C
	0.376		Weighted Average
	0.363		96.54% Pervious Area
	0.013		3.46% Impervious Area

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

Subcatchment D6: D6



Summary for Subcatchment D7: D7

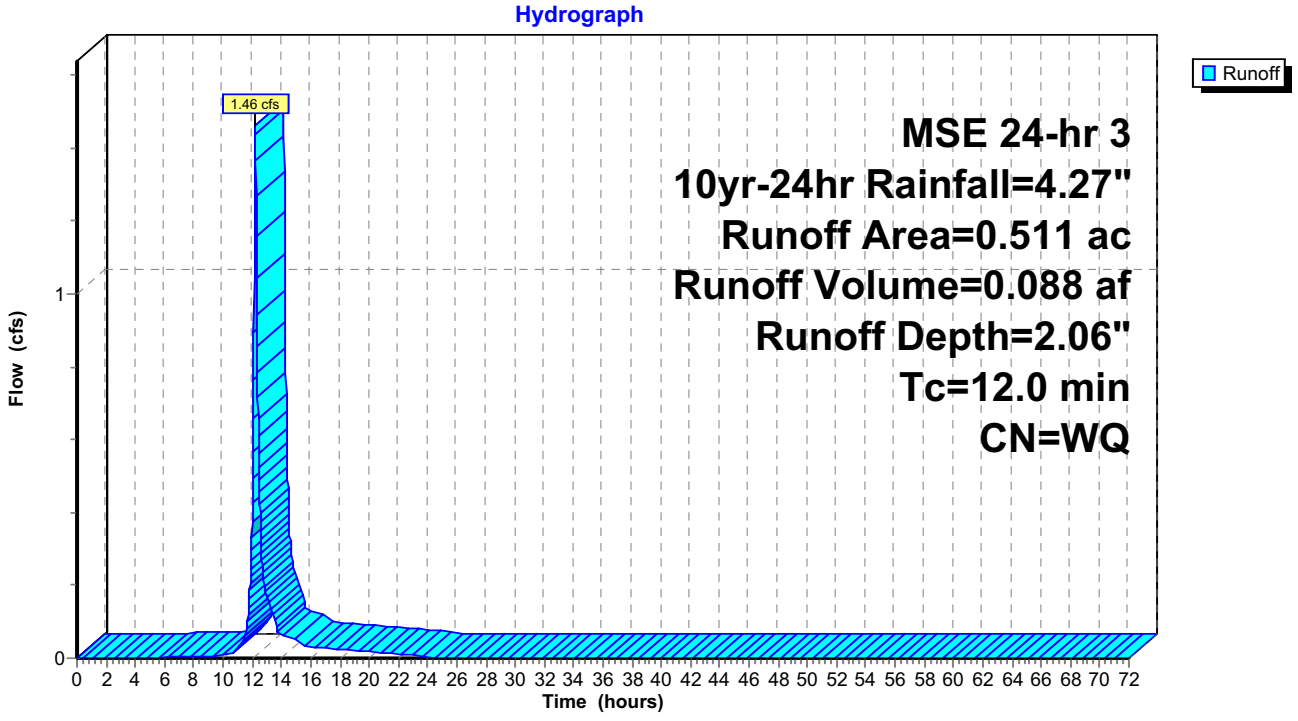
Runoff = 1.46 cfs @ 12.20 hrs, Volume= 0.088 af, Depth= 2.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.061	98	Impervious
	0.450	74	>75% Grass cover, Good, HSG C
	0.511		Weighted Average
	0.450		88.06% Pervious Area
	0.061		11.94% Impervious Area

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

Subcatchment D7: D7



Summary for Subcatchment D7_100: D7_100

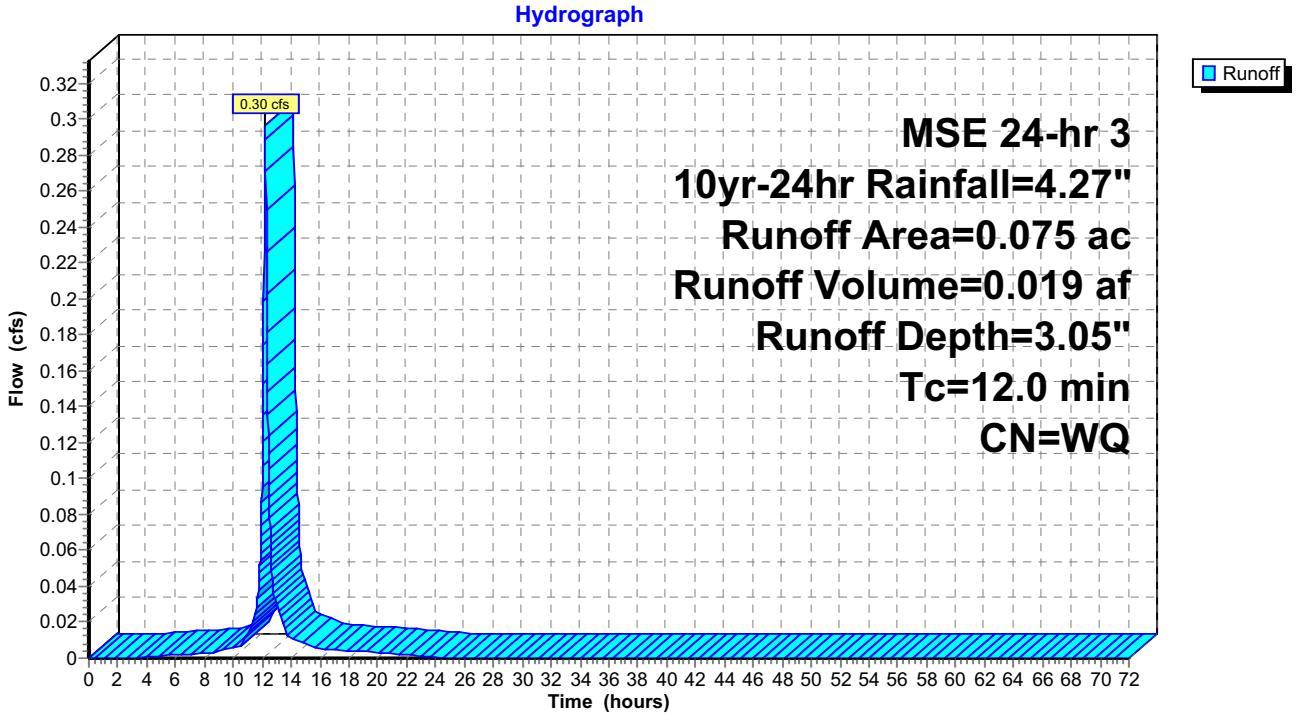
Runoff = 0.30 cfs @ 12.20 hrs, Volume= 0.019 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.033	74	>75% Grass cover, Good, HSG C
*	0.042	98	Impervious
	0.075		Weighted Average
	0.033		44.00% Pervious Area
	0.042		56.00% Impervious Area

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

Subcatchment D7_100: D7_100



Summary for Subcatchment D8: D8

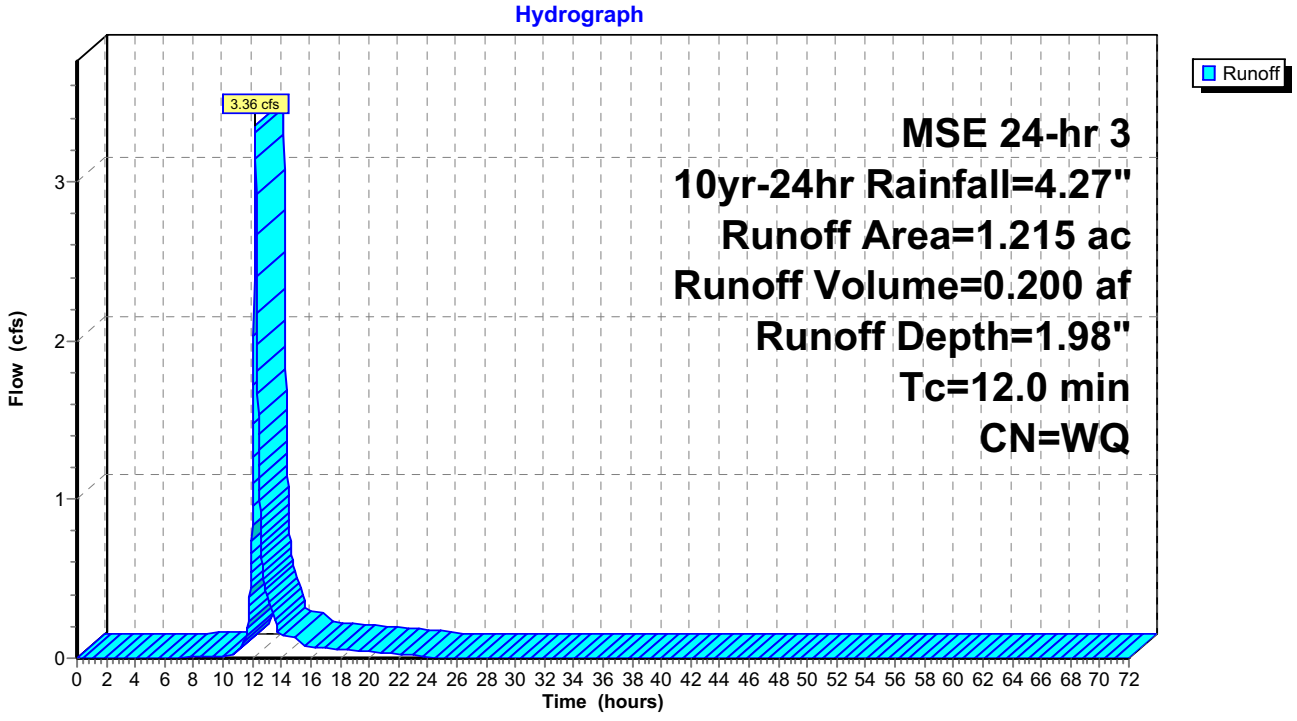
Runoff = 3.36 cfs @ 12.20 hrs, Volume= 0.200 af, Depth= 1.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.097	98	Impervious
	1.118	74	>75% Grass cover, Good, HSG C
	1.215		Weighted Average
	1.118		92.02% Pervious Area
	0.097		7.98% Impervious Area

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

Subcatchment D8: D8



Summary for Subcatchment D9: D9

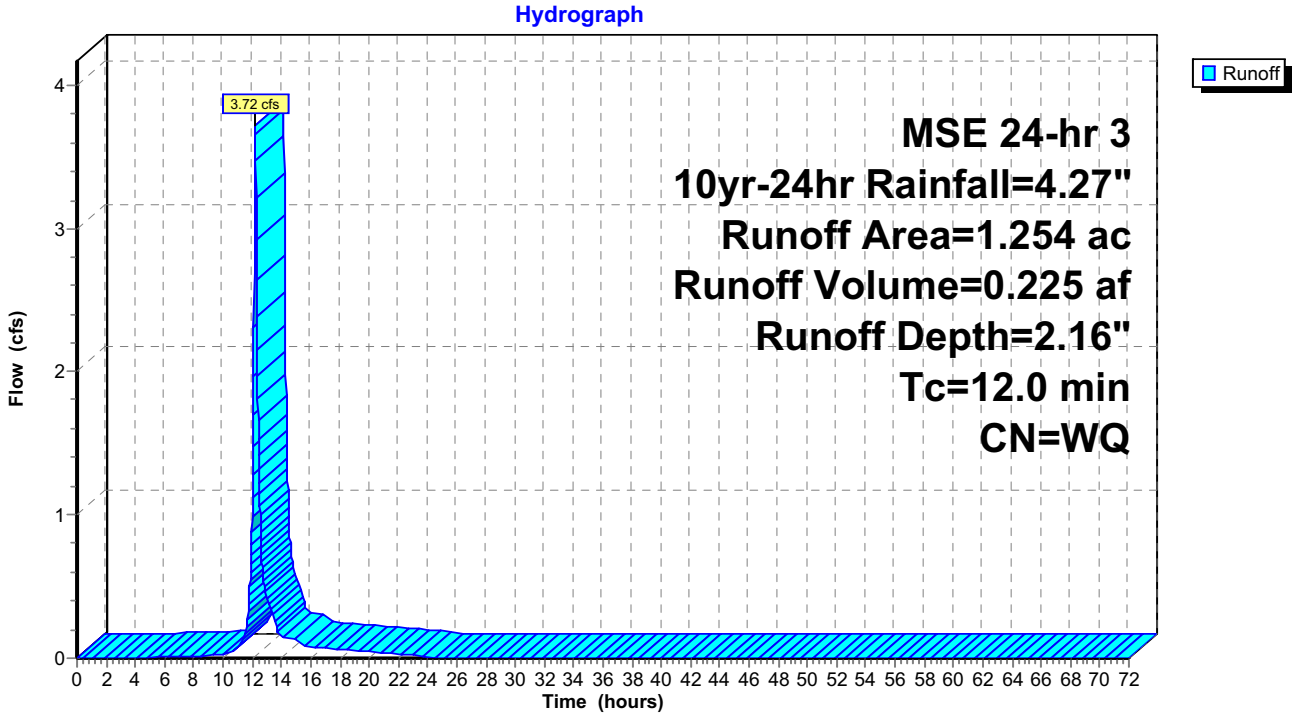
Runoff = 3.72 cfs @ 12.20 hrs, Volume= 0.225 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.202	98	Impervious
	1.052	74	>75% Grass cover, Good, HSG C
	1.254		Weighted Average
	1.052		83.89% Pervious Area
	0.202		16.11% Impervious Area

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

Subcatchment D9: D9



Summary for Subcatchment E13: E13

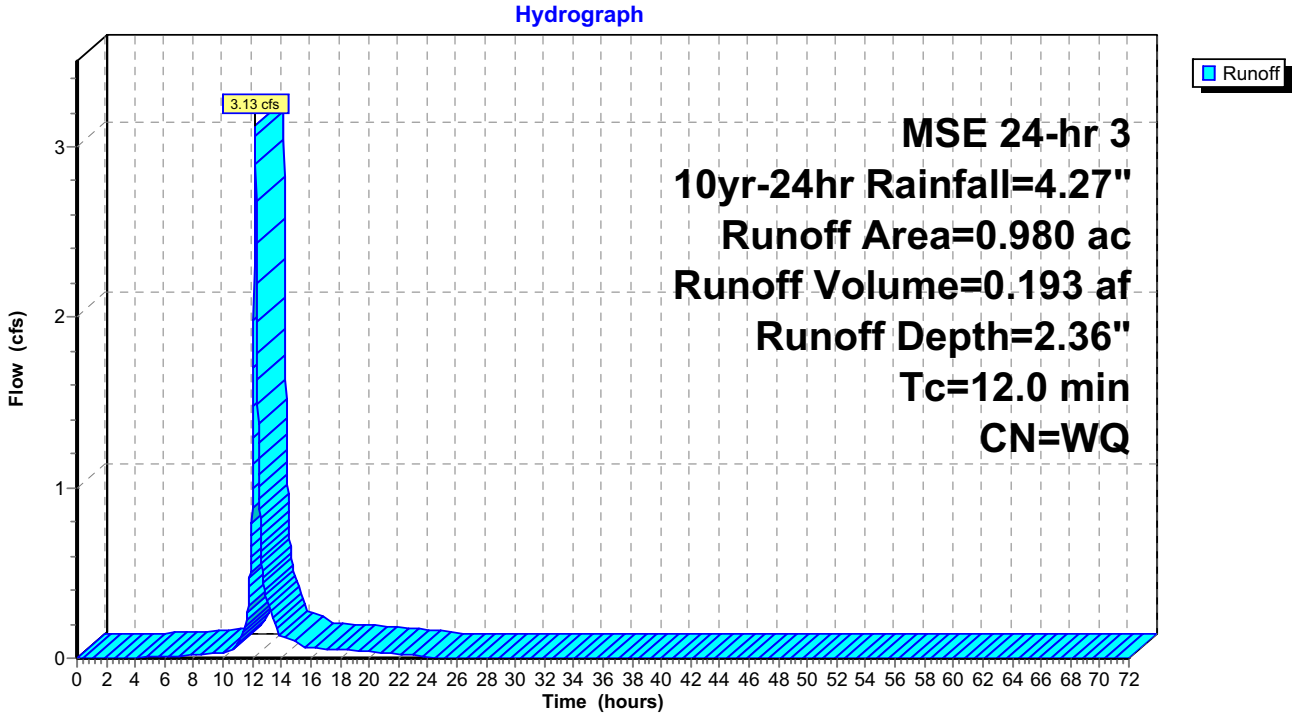
Runoff = 3.13 cfs @ 12.20 hrs, Volume= 0.193 af, Depth= 2.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.248	98	Impervious
	0.732	74	>75% Grass cover, Good, HSG C
	0.980		Weighted Average
	0.732		74.69% Pervious Area
	0.248		25.31% Impervious Area

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

Subcatchment E13: E13



Summary for Subcatchment E15: E15

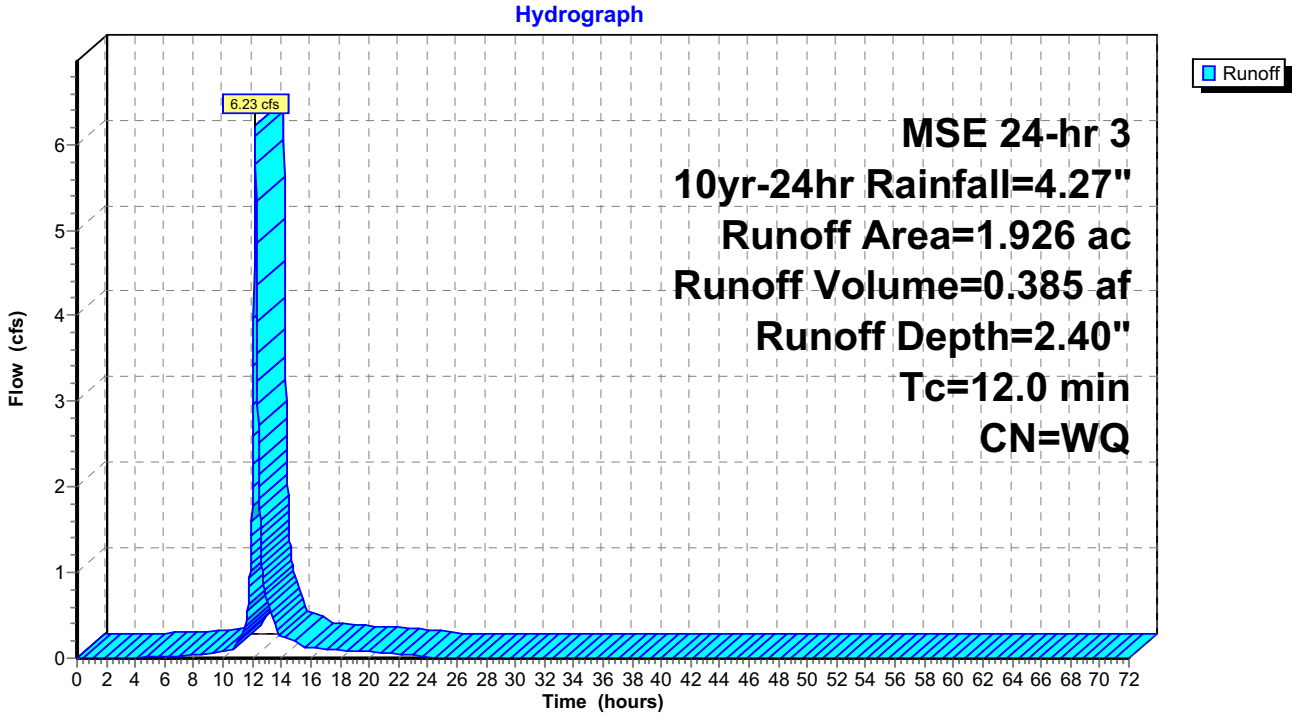
Runoff = 6.23 cfs @ 12.20 hrs, Volume= 0.385 af, Depth= 2.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.518	98	Impervious
	1.408	74	>75% Grass cover, Good, HSG C
	1.926		Weighted Average
	1.408		73.10% Pervious Area
	0.518		26.90% Impervious Area

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

Subcatchment E15: E15



Summary for Subcatchment E16: E16

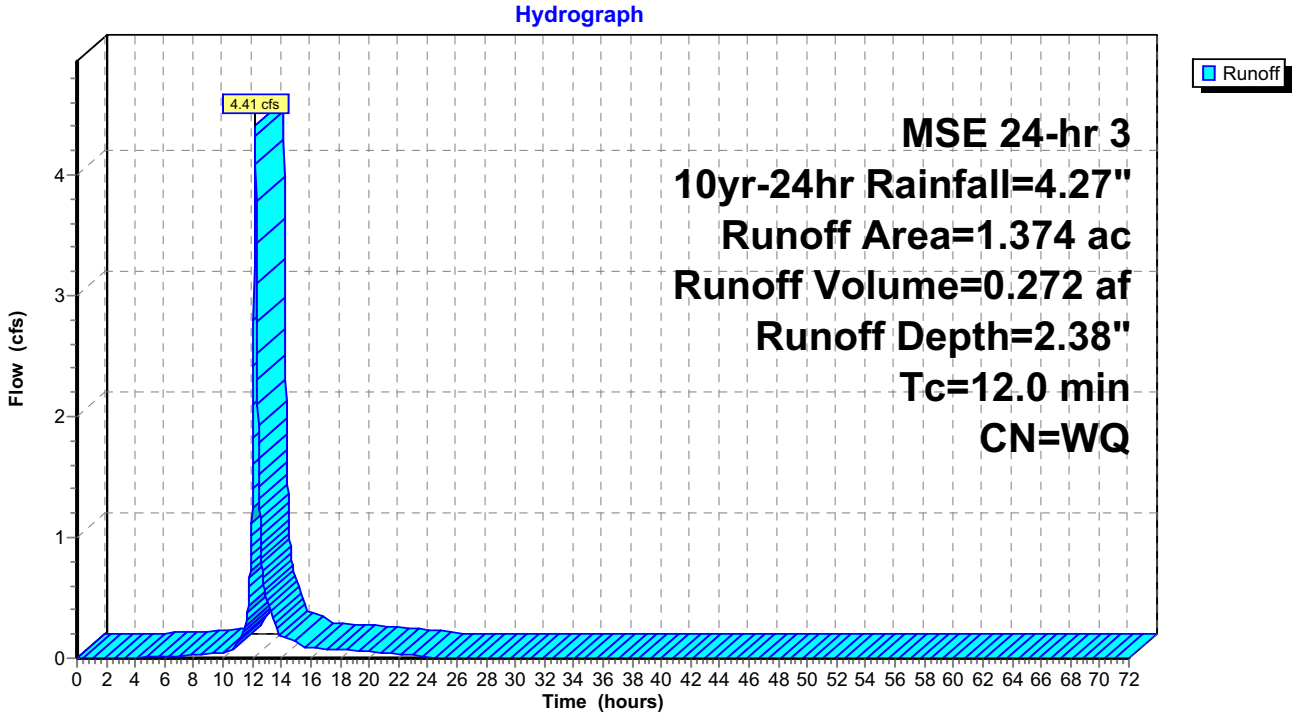
Runoff = 4.41 cfs @ 12.20 hrs, Volume= 0.272 af, Depth= 2.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.355	98	Impervious
	1.019	74	>75% Grass cover, Good, HSG C
	1.374		Weighted Average
	1.019		74.16% Pervious Area
	0.355		25.84% Impervious Area

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

Subcatchment E16: E16



Summary for Subcatchment E17: E17

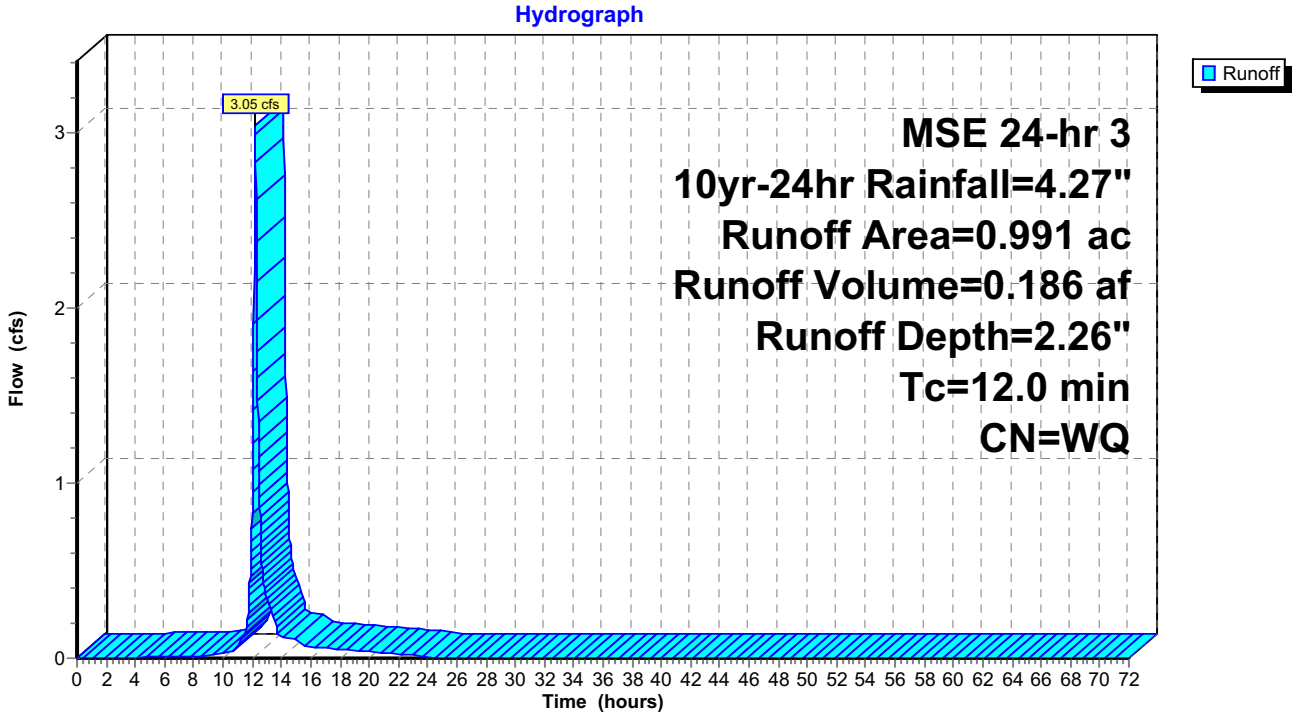
Runoff = 3.05 cfs @ 12.20 hrs, Volume= 0.186 af, Depth= 2.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.203	98	Impervious
	0.788	74	>75% Grass cover, Good, HSG C
	0.991		Weighted Average
	0.788		79.52% Pervious Area
	0.203		20.48% Impervious Area

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

Subcatchment E17: E17



Summary for Subcatchment E18: E18

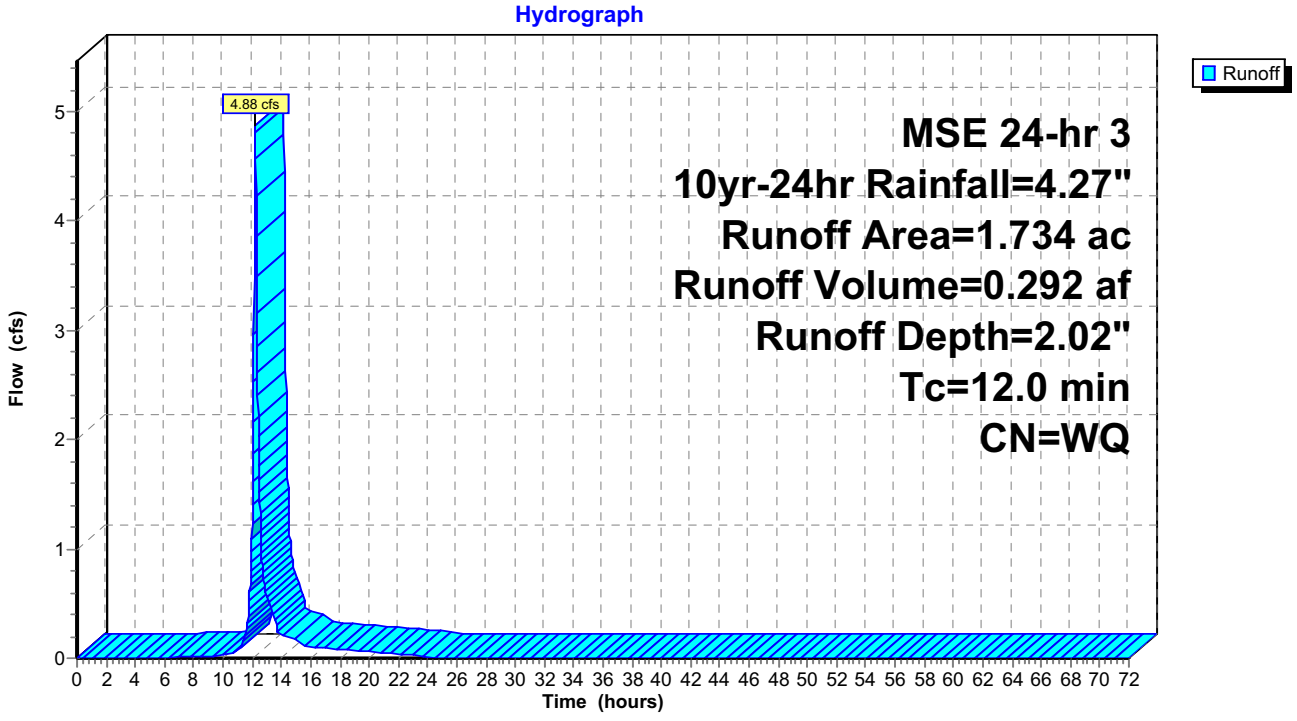
Runoff = 4.88 cfs @ 12.20 hrs, Volume= 0.292 af, Depth= 2.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.171	98	Impervious
	1.563	74	>75% Grass cover, Good, HSG C
	1.734		Weighted Average
	1.563		90.14% Pervious Area
	0.171		9.86% Impervious Area

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

Subcatchment E18: E18



Summary for Subcatchment F5: F5

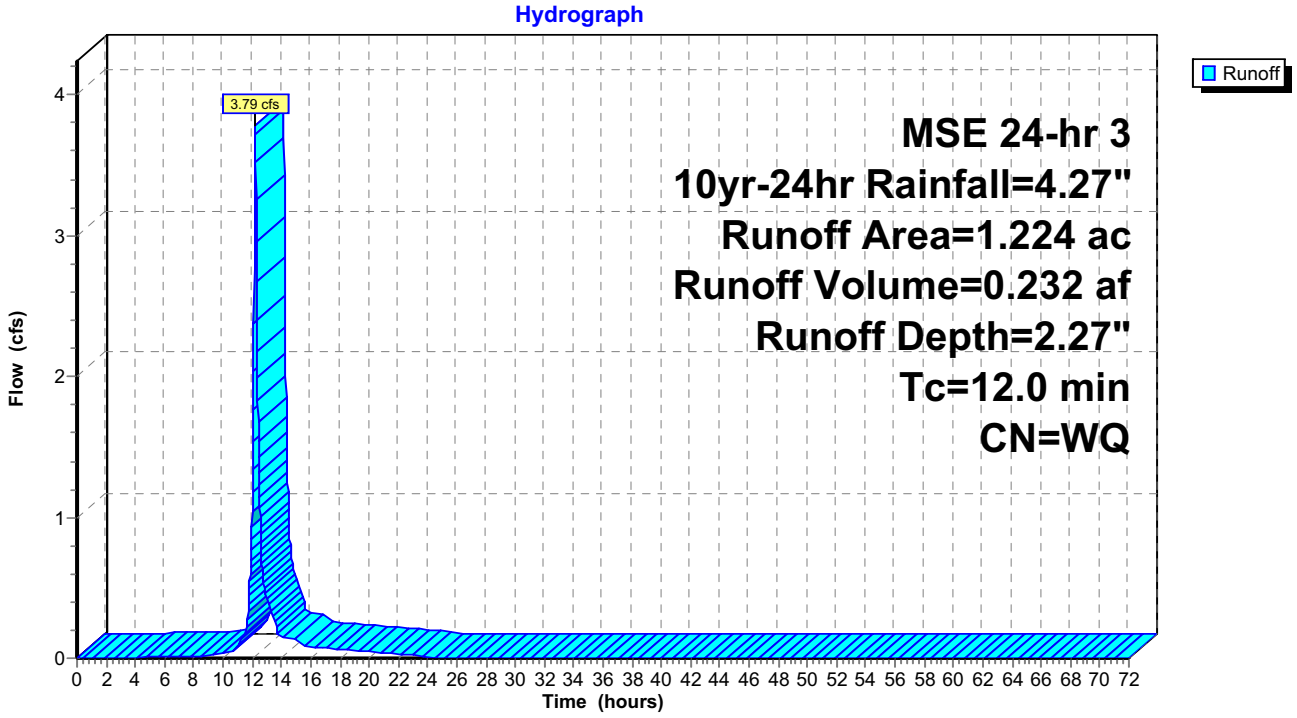
Runoff = 3.79 cfs @ 12.20 hrs, Volume= 0.232 af, Depth= 2.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.260	98	Impervious
	0.964	74	>75% Grass cover, Good, HSG C
	1.224		Weighted Average
	0.964		78.76% Pervious Area
	0.260		21.24% Impervious Area

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

Subcatchment F5: F5



Summary for Subcatchment F6: F6

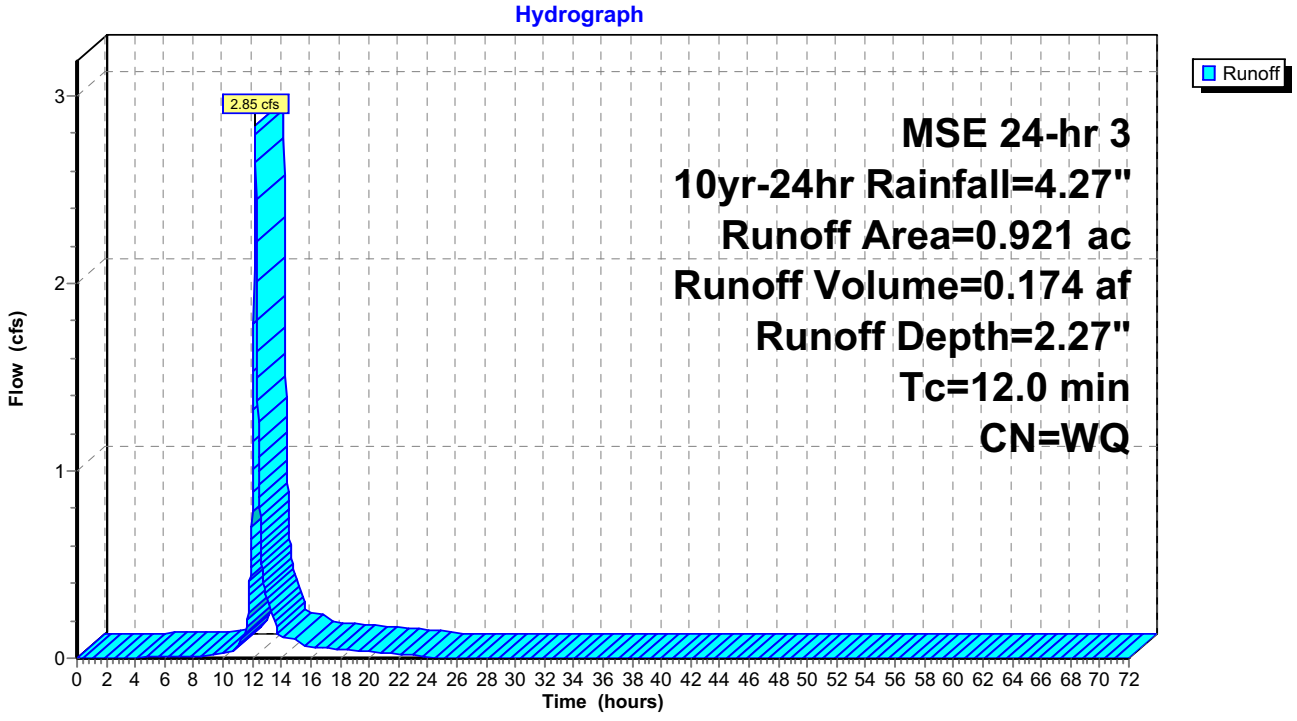
Runoff = 2.85 cfs @ 12.20 hrs, Volume= 0.174 af, Depth= 2.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.194	98	Impervious
	0.727	74	>75% Grass cover, Good, HSG C
	0.921		Weighted Average
	0.727		78.94% Pervious Area
	0.194		21.06% Impervious Area

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

Subcatchment F6: F6



Summary for Subcatchment F7: F7

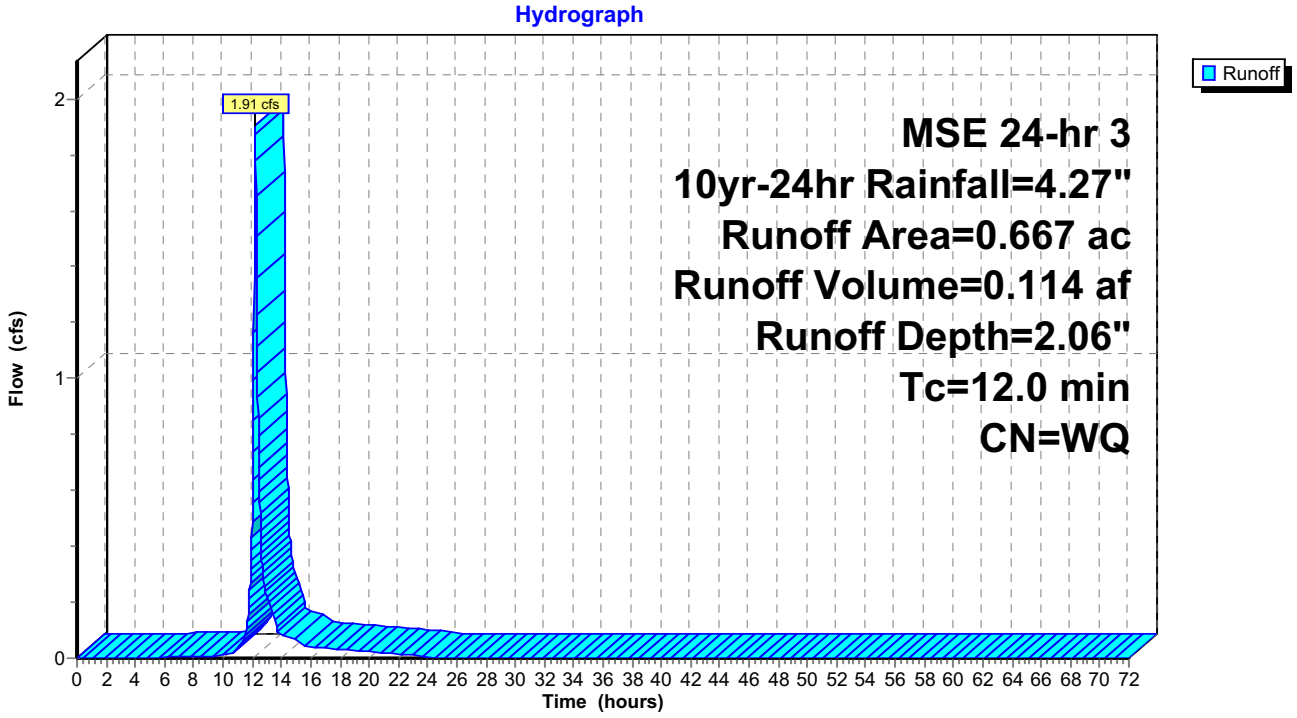
Runoff = 1.91 cfs @ 12.20 hrs, Volume= 0.114 af, Depth= 2.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.078	98	Impervious
	0.589	74	>75% Grass cover, Good, HSG C
	0.667		Weighted Average
	0.589		88.31% Pervious Area
	0.078		11.69% Impervious Area

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

Subcatchment F7: F7



Summary for Subcatchment F8: F8

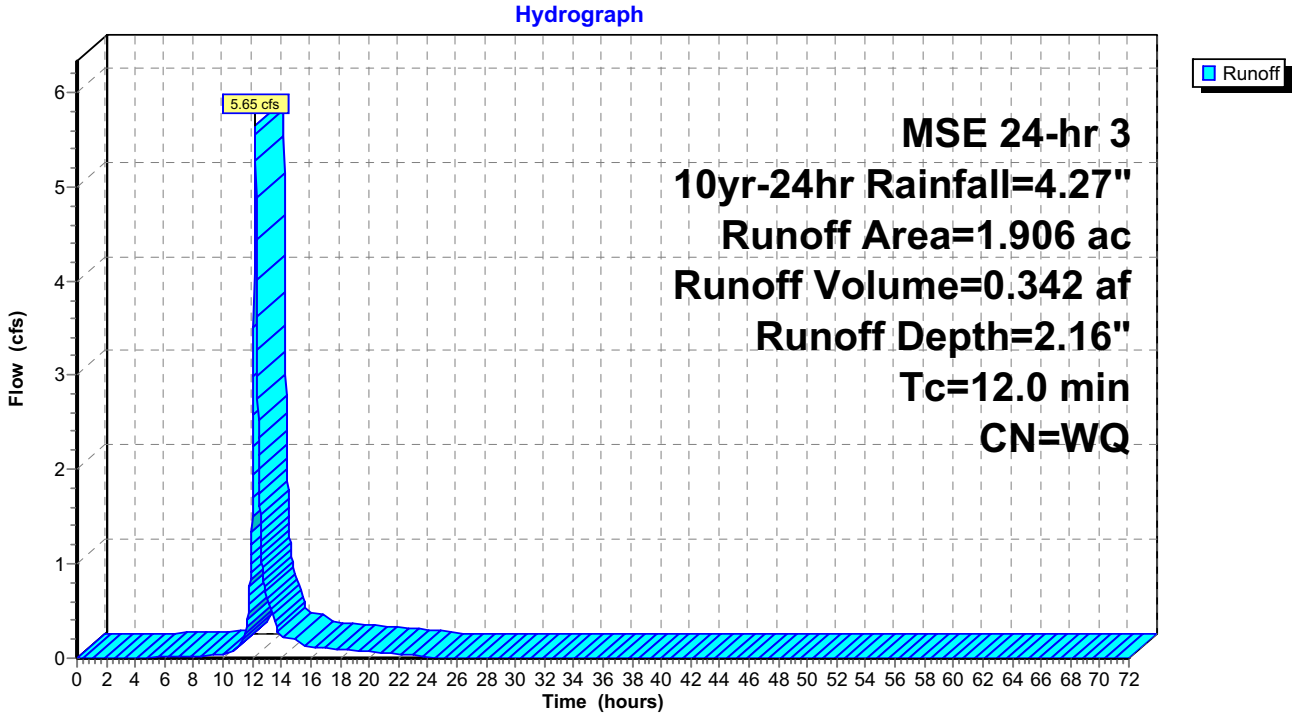
Runoff = 5.65 cfs @ 12.20 hrs, Volume= 0.342 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.305	98	Impervious
	1.601	74	>75% Grass cover, Good, HSG C
	1.906		Weighted Average
	1.601		84.00% Pervious Area
	0.305		16.00% Impervious Area

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

Subcatchment F8: F8



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Summary for Subcatchment H5: H5

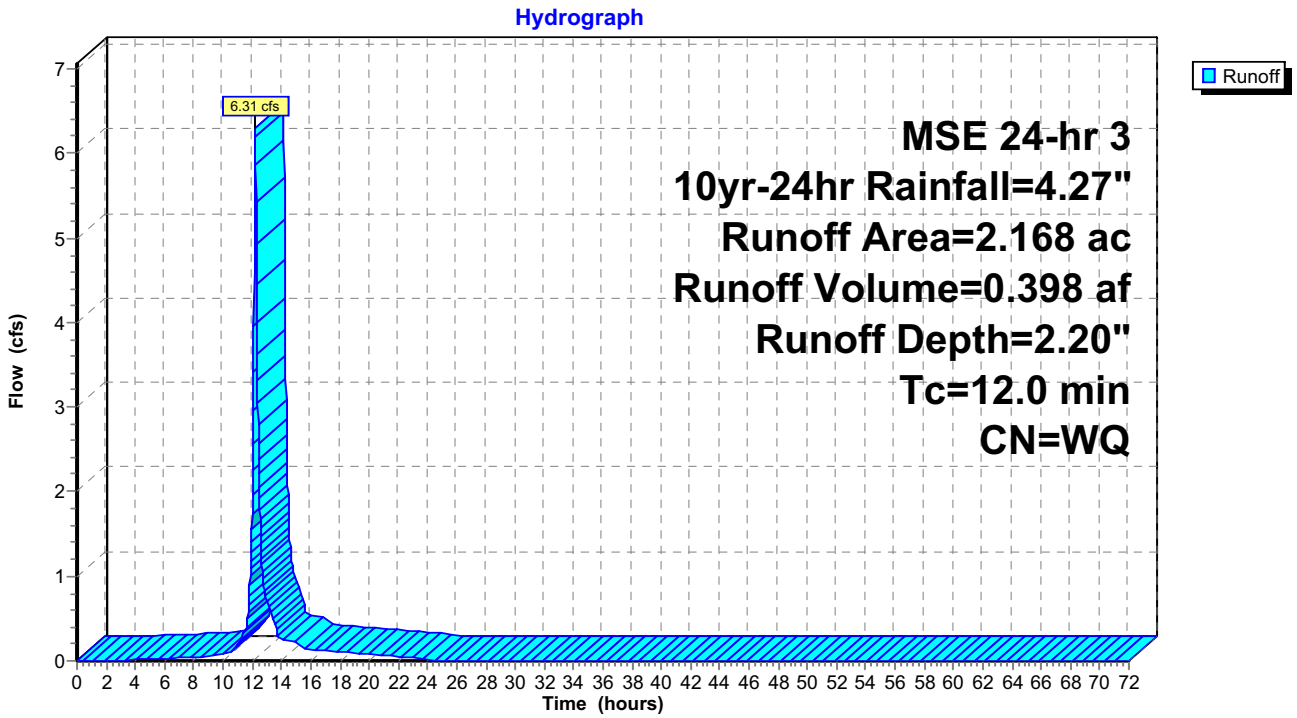
Runoff = 6.31 cfs @ 12.20 hrs, Volume= 0.398 af, Depth= 2.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.590	98	Impervious
	0.526	61	>75% Grass cover, Good, HSG B
	1.052	74	>75% Grass cover, Good, HSG C
	2.168		Weighted Average
	1.578		72.79% Pervious Area
	0.590		27.21% Impervious Area

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

Subcatchment H5: H5



Summary for Subcatchment H6: H6

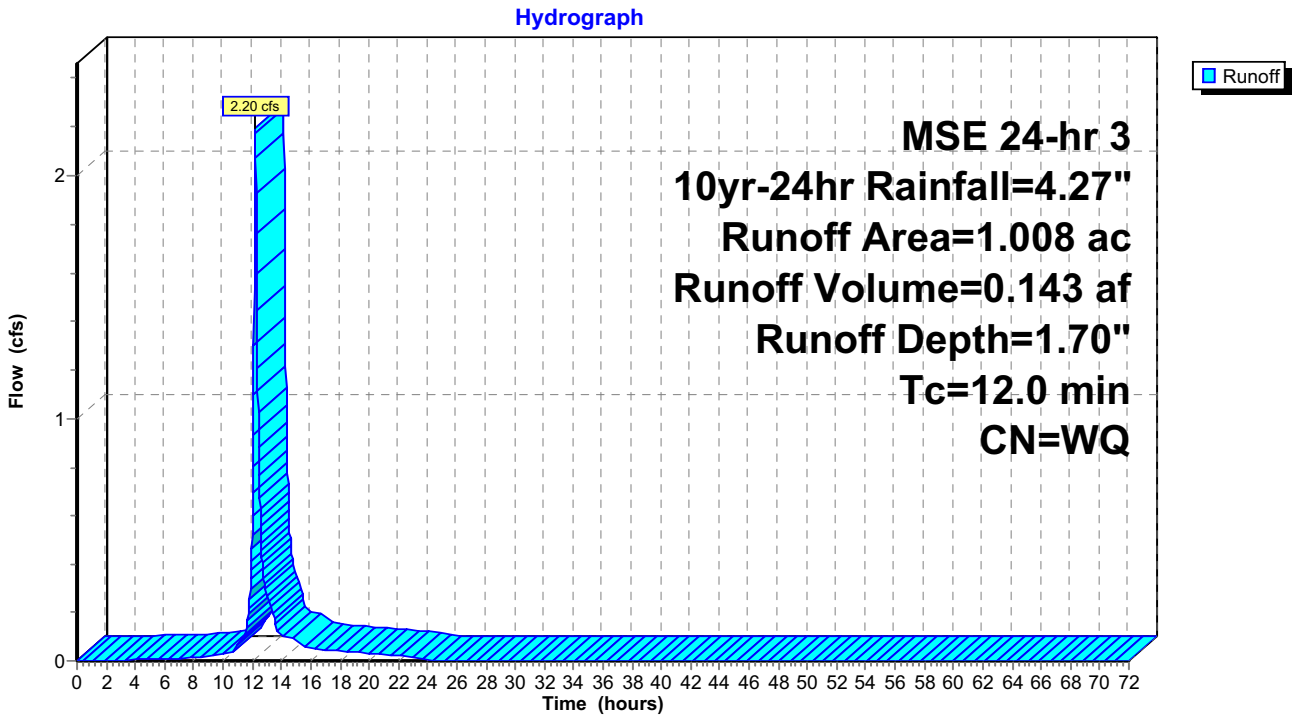
Runoff = 2.20 cfs @ 12.20 hrs, Volume= 0.143 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.197	98	Impervious
	0.640	61	>75% Grass cover, Good, HSG B
	0.171	74	>75% Grass cover, Good, HSG C
	1.008		Weighted Average
	0.811		80.46% Pervious Area
	0.197		19.54% Impervious Area

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

Subcatchment H6: H6



Summary for Subcatchment H7: H7

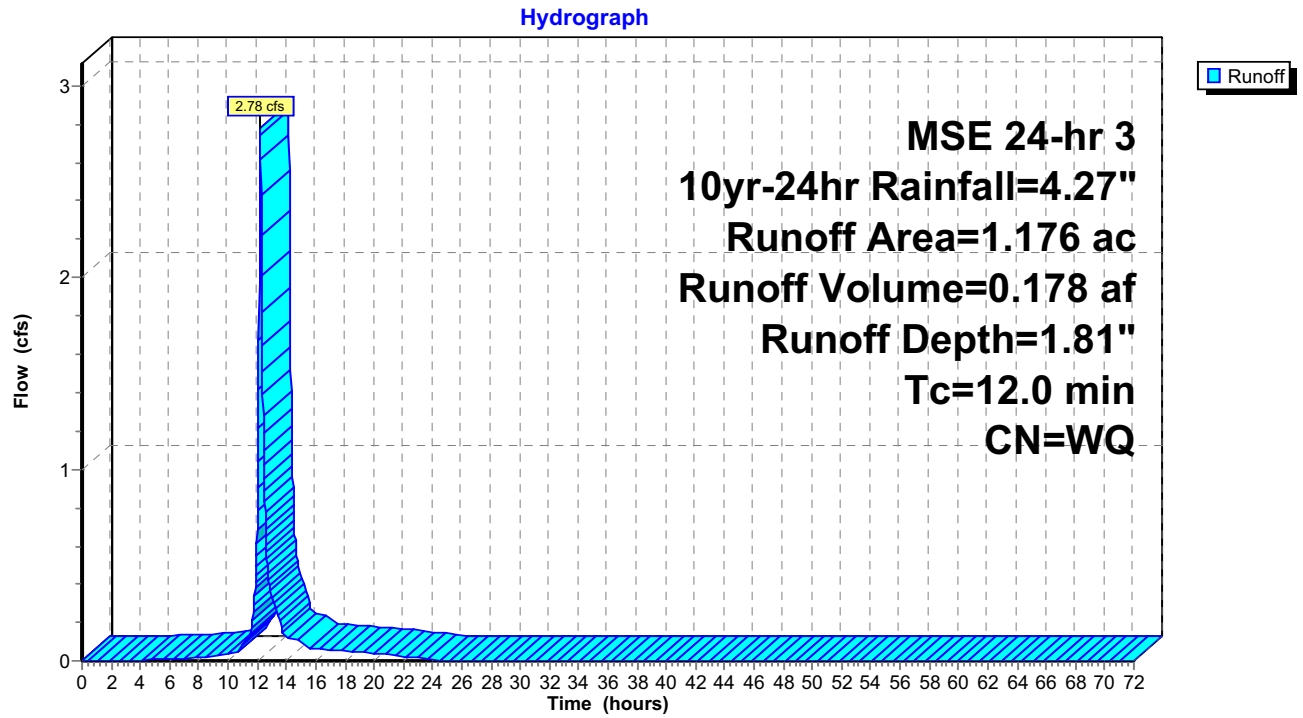
Runoff = 2.78 cfs @ 12.20 hrs, Volume= 0.178 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.231	98	Impervious
	0.591	61	>75% Grass cover, Good, HSG B
	0.354	74	>75% Grass cover, Good, HSG C
	1.176		Weighted Average
	0.945		80.36% Pervious Area
	0.231		19.64% Impervious Area

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

Subcatchment H7: H7



Summary for Subcatchment I7: I7

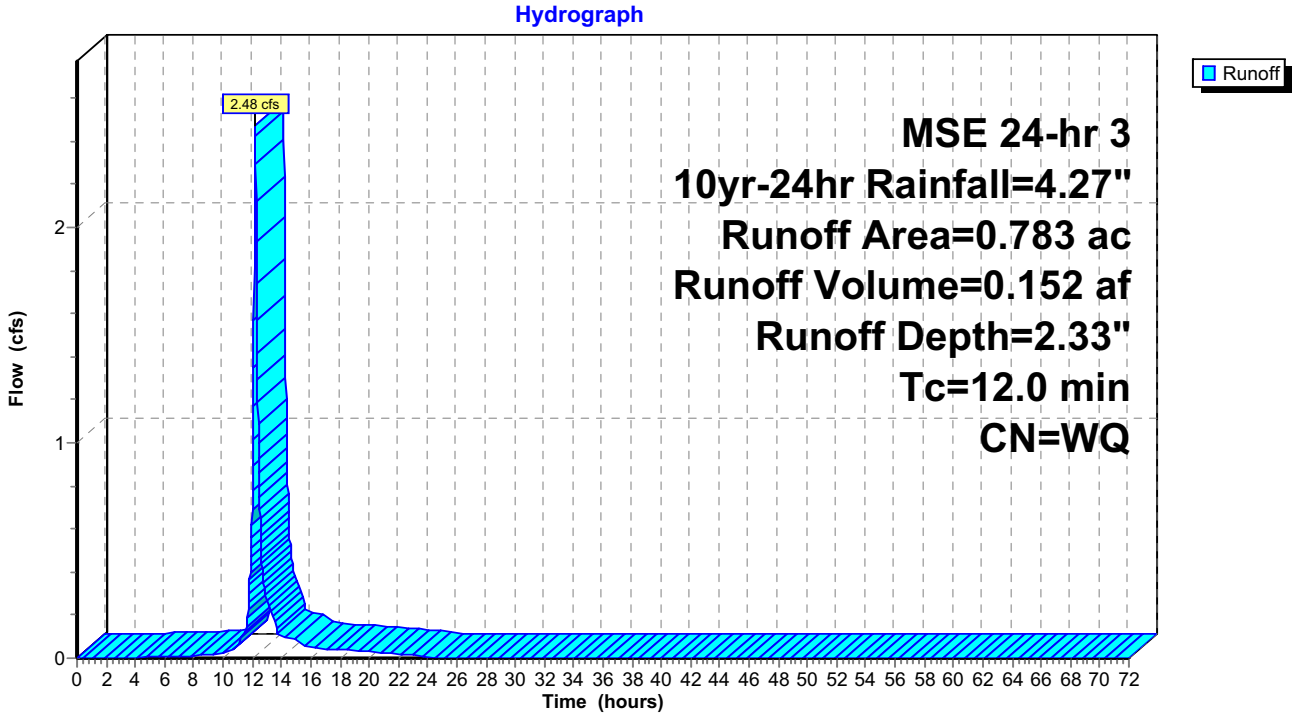
Runoff = 2.48 cfs @ 12.20 hrs, Volume= 0.152 af, Depth= 2.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.188	98	Impervious
	0.595	74	>75% Grass cover, Good, HSG C
	0.783		Weighted Average
	0.595		75.99% Pervious Area
	0.188		24.01% Impervious Area

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

Subcatchment I7: I7



Summary for Subcatchment I7_100: I7_100

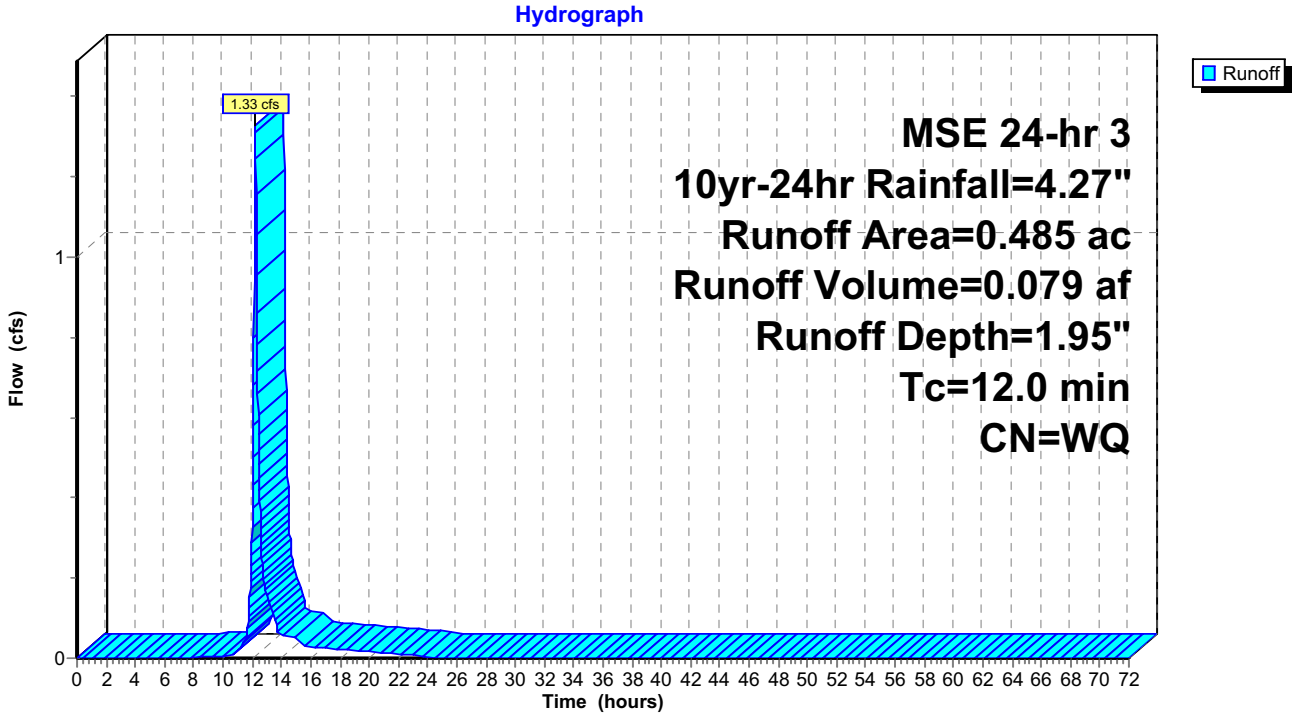
Runoff = 1.33 cfs @ 12.20 hrs, Volume= 0.079 af, Depth= 1.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.451	74	>75% Grass cover, Good, HSG C
*	0.034	98	Impervious
	0.485		Weighted Average
	0.451		92.99% Pervious Area
	0.034		7.01% Impervious Area

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

Subcatchment I7_100: I7_100



Summary for Subcatchment I8: I8

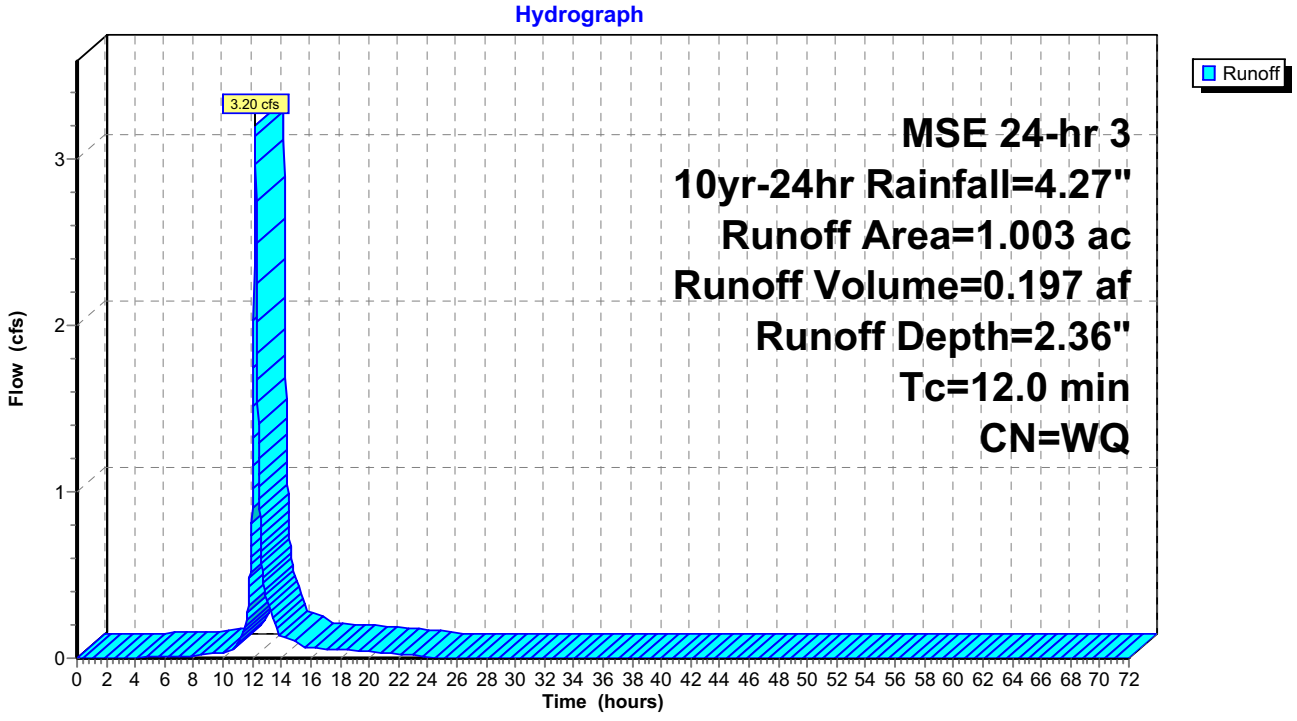
Runoff = 3.20 cfs @ 12.20 hrs, Volume= 0.197 af, Depth= 2.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.252	98	Impervious
	0.751	74	>75% Grass cover, Good, HSG C
	1.003		Weighted Average
	0.751		74.88% Pervious Area
	0.252		25.12% Impervious Area

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

Subcatchment I8: I8



Summary for Subcatchment I8_100: I8_100

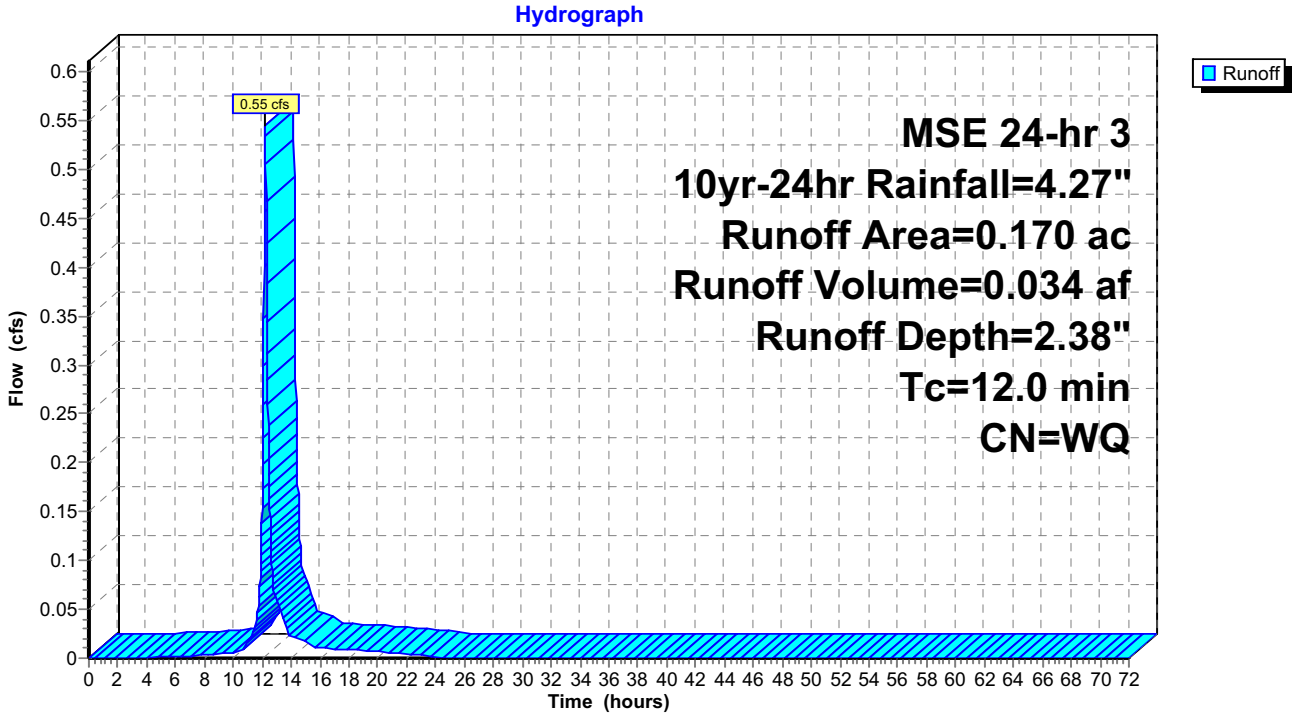
Runoff = 0.55 cfs @ 12.20 hrs, Volume= 0.034 af, Depth= 2.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.126	74	>75% Grass cover, Good, HSG C
*	0.044	98	Impervious
	0.170		Weighted Average
	0.126		74.12% Pervious Area
	0.044		25.88% Impervious Area

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

Subcatchment I8_100: I8_100



Summary for Subcatchment I9: I9

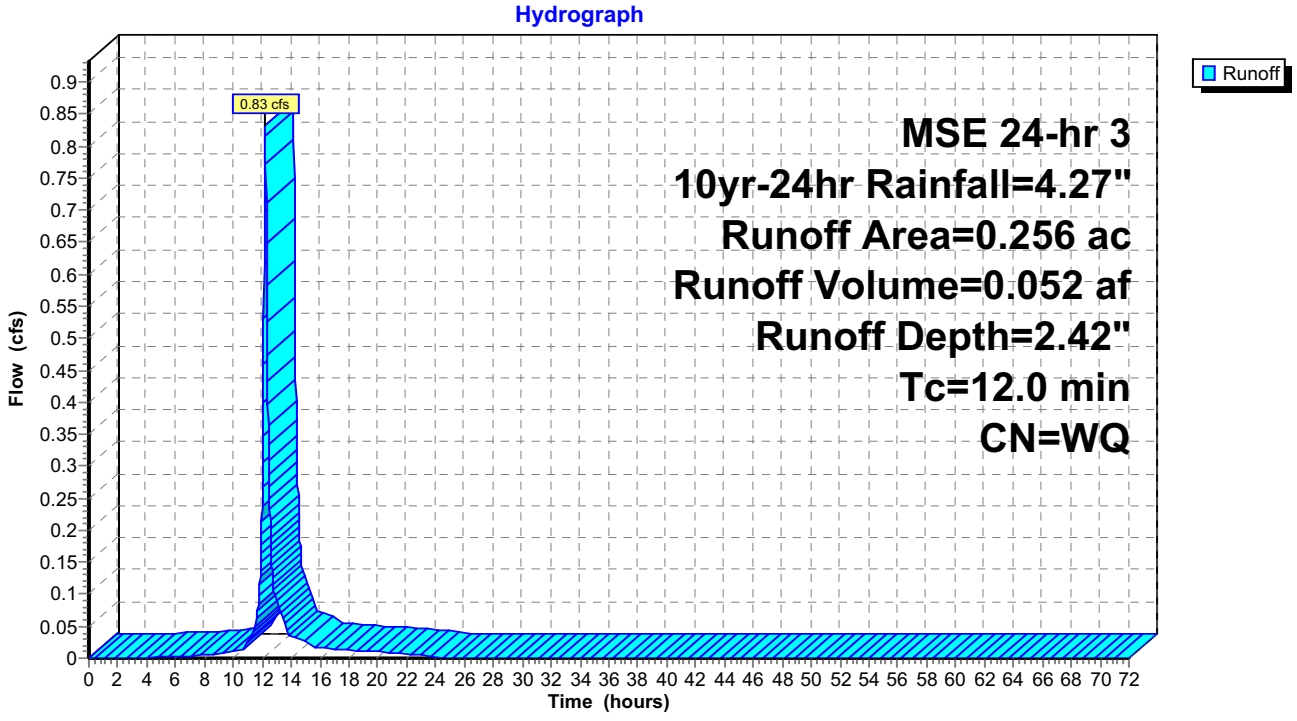
Runoff = 0.83 cfs @ 12.20 hrs, Volume= 0.052 af, Depth= 2.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.071	98	Impervious
	0.185	74	>75% Grass cover, Good, HSG C
	0.256		Weighted Average
	0.185		72.27% Pervious Area
	0.071		27.73% Impervious Area

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

Subcatchment I9: I9



Summary for Subcatchment J3: J3

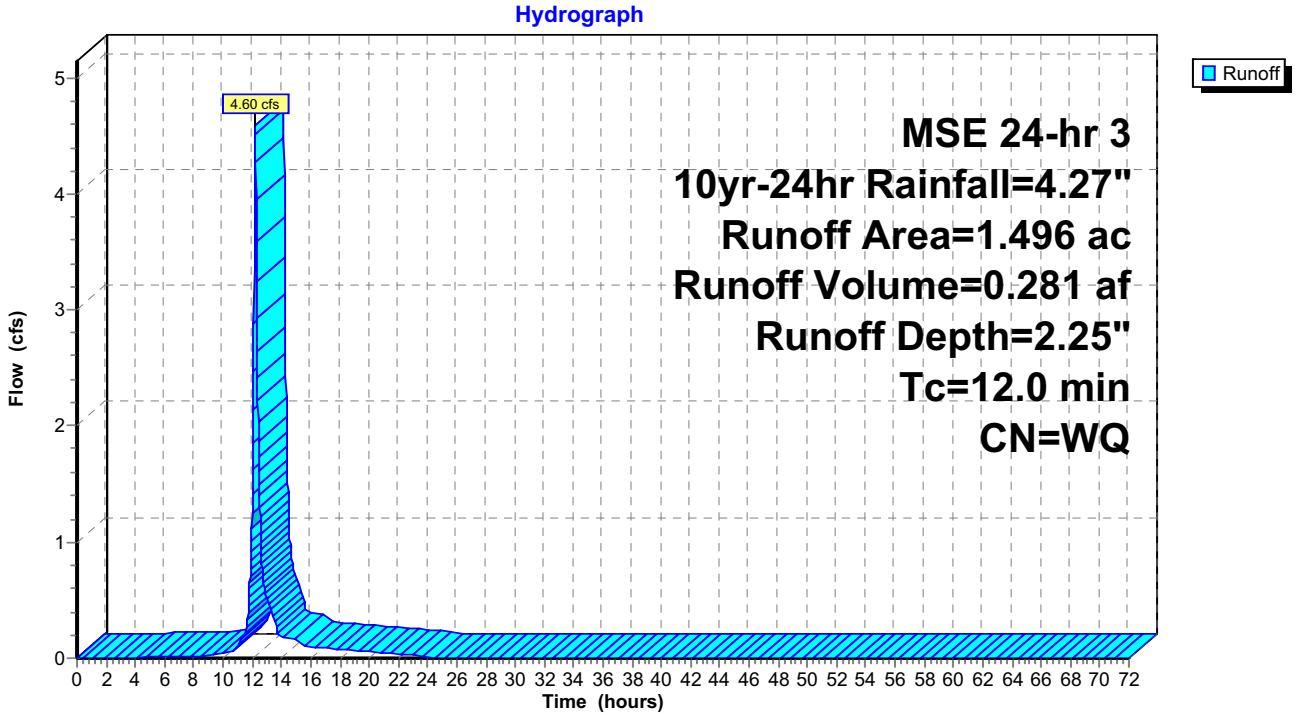
Runoff = 4.60 cfs @ 12.20 hrs, Volume= 0.281 af, Depth= 2.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.304	98	Impervious
	1.192	74	>75% Grass cover, Good, HSG C
	1.496		Weighted Average
	1.192		79.68% Pervious Area
	0.304		20.32% Impervious Area

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

Subcatchment J3: J3



Summary for Subcatchment J4: J4

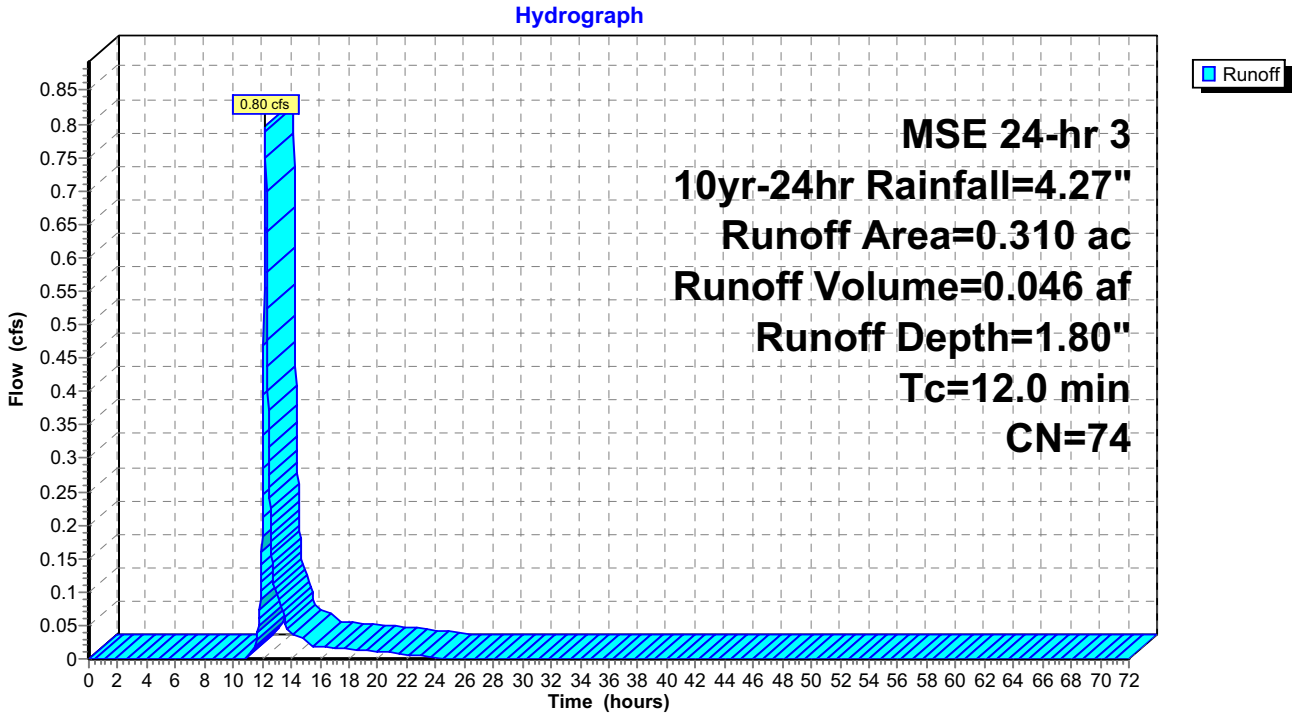
Runoff = 0.80 cfs @ 12.20 hrs, Volume= 0.046 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

Area (ac)	CN	Description
0.310	74	>75% Grass cover, Good, HSG C
0.310		100.00% Pervious Area

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

Subcatchment J4: J4



Summary for Subcatchment J5: J5

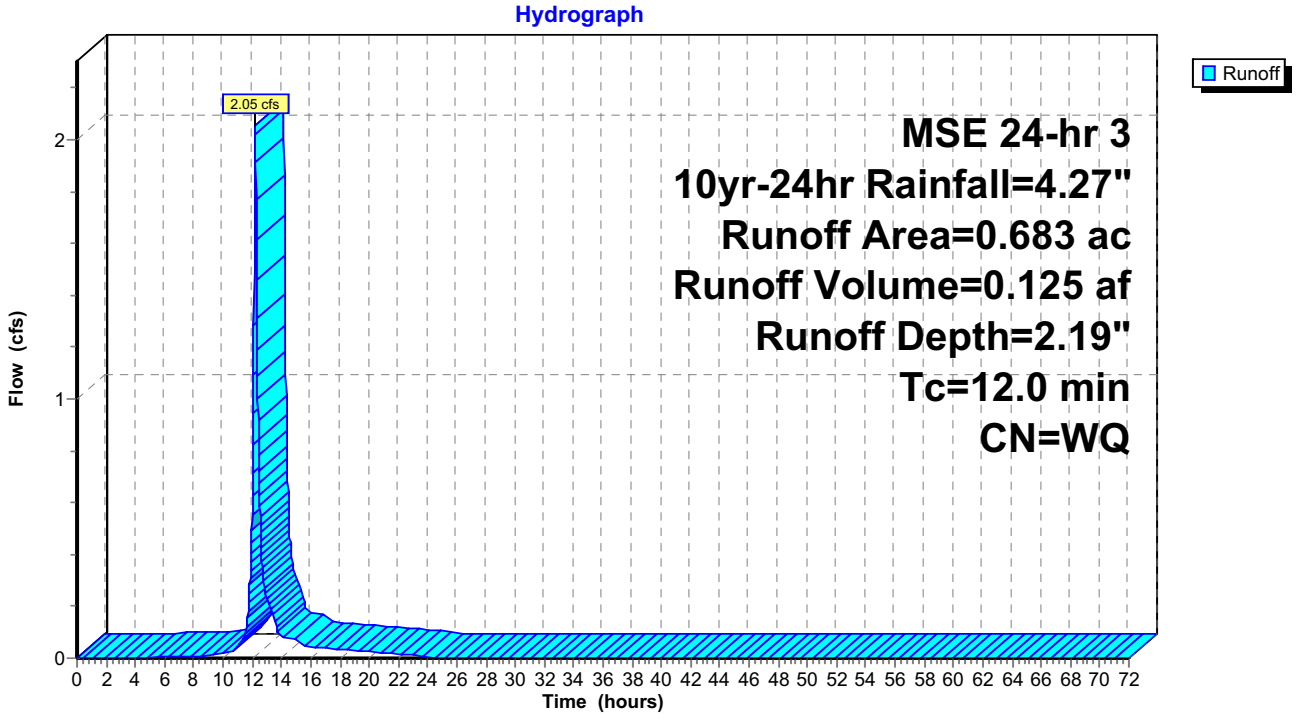
Runoff = 2.05 cfs @ 12.20 hrs, Volume= 0.125 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.121	98	Impervious
	0.562	74	>75% Grass cover, Good, HSG C
	0.683		Weighted Average
	0.562		82.28% Pervious Area
	0.121		17.72% Impervious Area

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

Subcatchment J5: J5



Summary for Subcatchment L10: L10

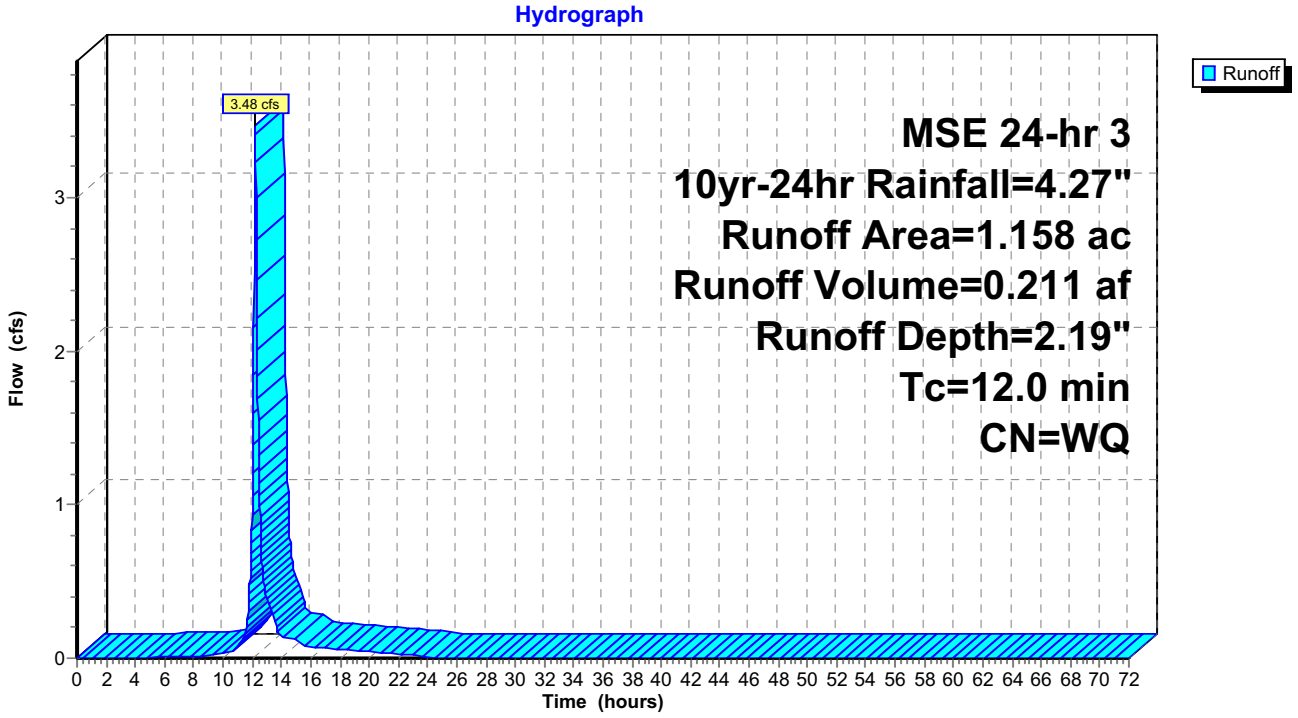
Runoff = 3.48 cfs @ 12.20 hrs, Volume= 0.211 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.203	98	Impervious
	0.955	74	>75% Grass cover, Good, HSG C
	1.158		Weighted Average
	0.955		82.47% Pervious Area
	0.203		17.53% Impervious Area

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

Subcatchment L10: L10



Summary for Subcatchment L4: L4

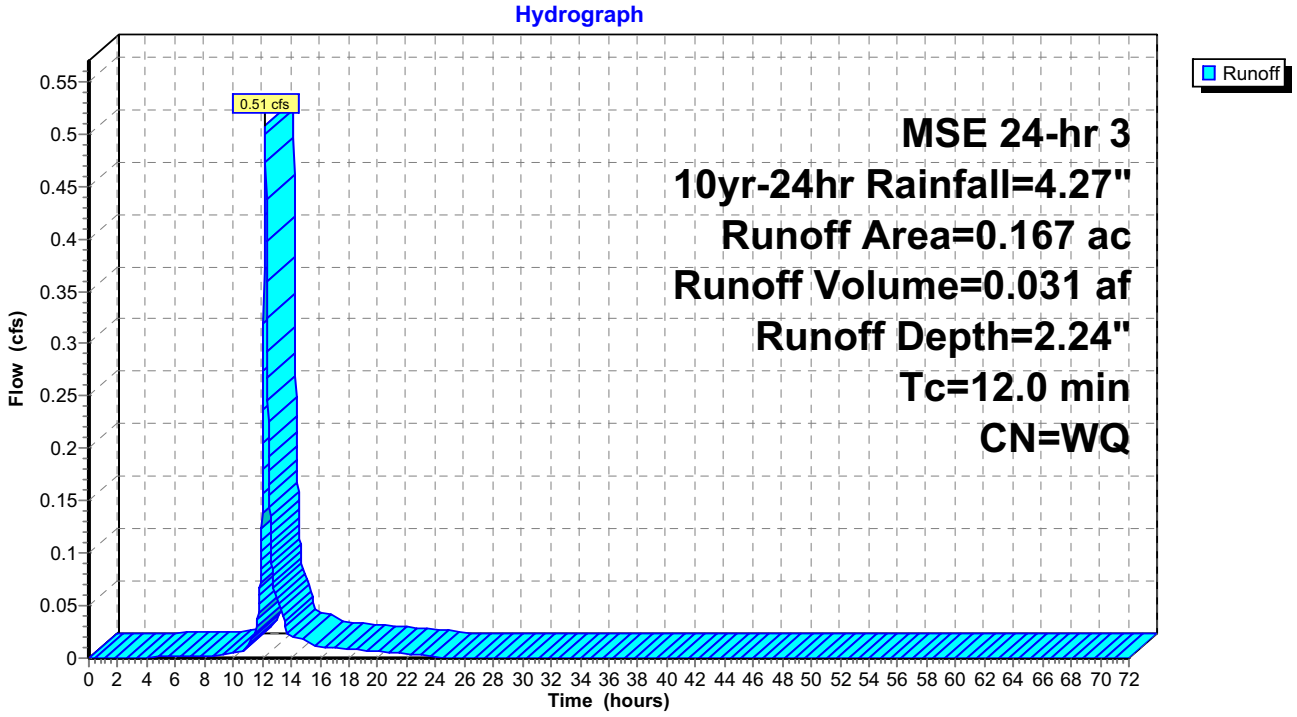
Runoff = 0.51 cfs @ 12.20 hrs, Volume= 0.031 af, Depth= 2.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.002	98	Impervious
	0.005	61	>75% Grass cover, Good, HSG B
	0.127	74	>75% Grass cover, Good, HSG C
*	0.033	98	Impervious
	0.167		Weighted Average
	0.132		79.04% Pervious Area
	0.035		20.96% Impervious Area

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

Subcatchment L4: L4



Summary for Subcatchment L5: L5

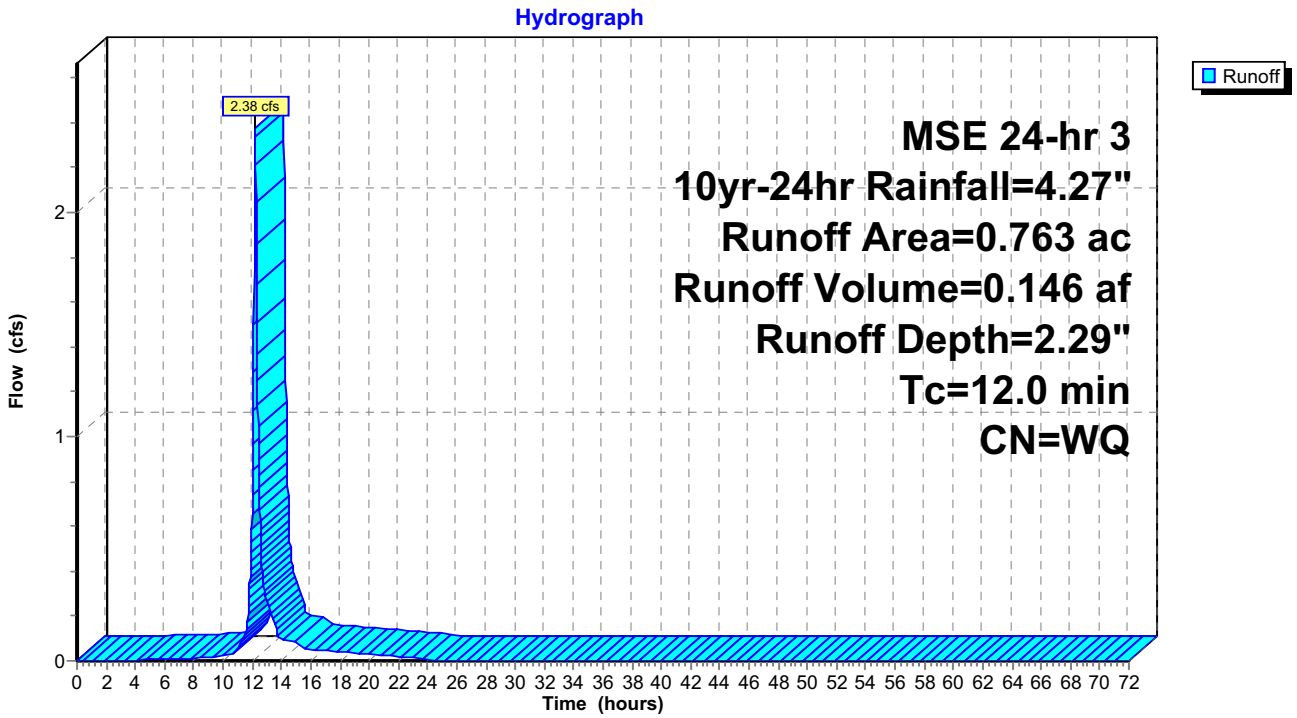
Runoff = 2.38 cfs @ 12.20 hrs, Volume= 0.146 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.101	98	Impervious
	0.595	74	>75% Grass cover, Good, HSG C
*	0.067	98	Impervious
	0.763		Weighted Average
	0.595		77.98% Pervious Area
	0.168		22.02% Impervious Area

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

Subcatchment L5: L5



Summary for Subcatchment L6: L6

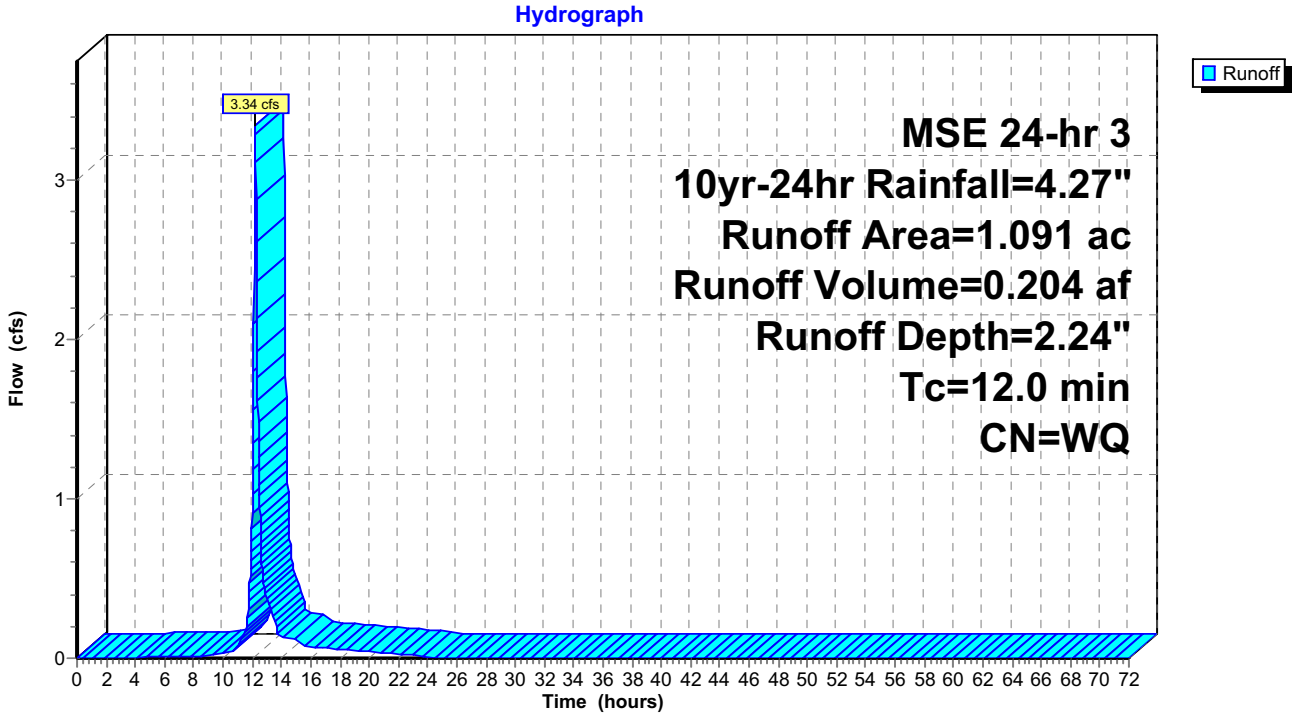
Runoff = 3.34 cfs @ 12.20 hrs, Volume= 0.204 af, Depth= 2.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.218	98	Impervious
	0.873	74	>75% Grass cover, Good, HSG C
	1.091		Weighted Average
	0.873		80.02% Pervious Area
	0.218		19.98% Impervious Area

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

Subcatchment L6: L6



Summary for Subcatchment L7: L7

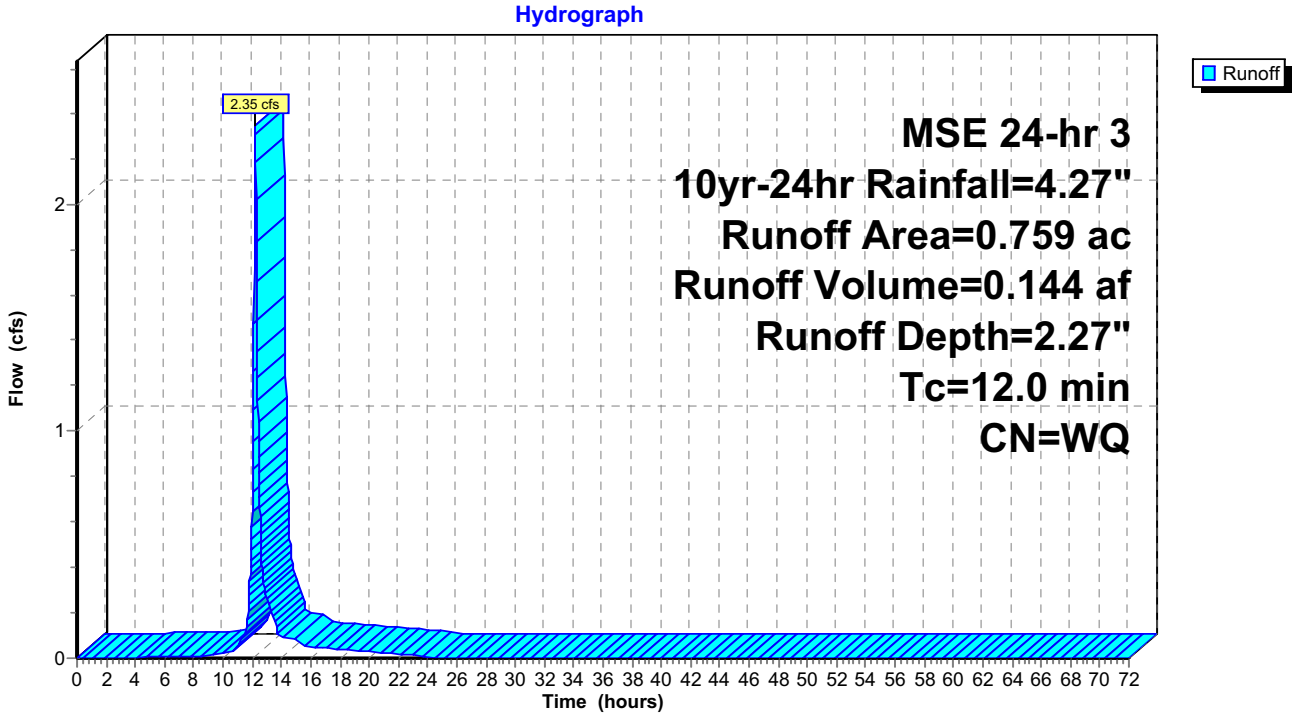
Runoff = 2.35 cfs @ 12.20 hrs, Volume= 0.144 af, Depth= 2.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.161	98	Impervious
	0.598	74	>75% Grass cover, Good, HSG C
	0.759		Weighted Average
	0.598		78.79% Pervious Area
	0.161		21.21% Impervious Area

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

Subcatchment L7: L7



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Prepared by AE2S
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Summary for Subcatchment L8: L8

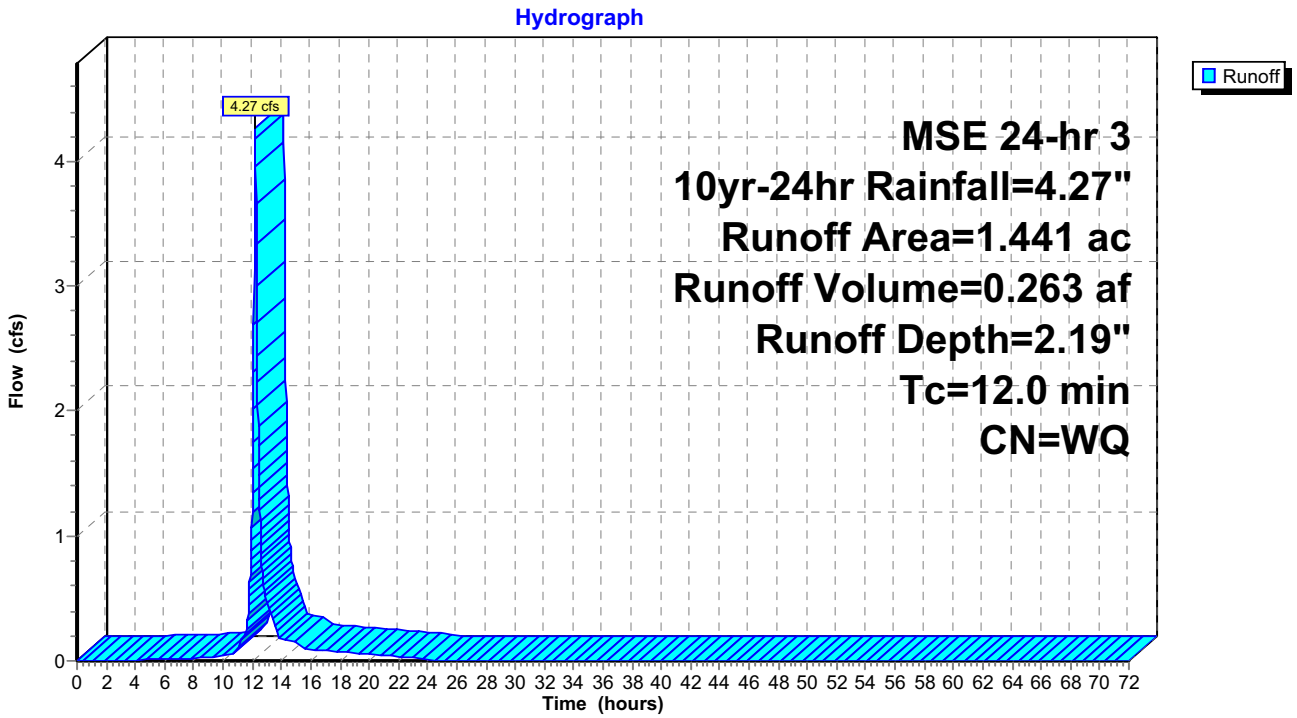
Runoff = 4.27 cfs @ 12.20 hrs, Volume= 0.263 af, Depth= 2.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.318	98	Impervious
	0.086	39	>75% Grass cover, Good, HSG A
	1.037	74	>75% Grass cover, Good, HSG C
	1.441		Weighted Average
	1.123		77.93% Pervious Area
	0.318		22.07% Impervious Area

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

Subcatchment L8: L8



Summary for Subcatchment L9: L9

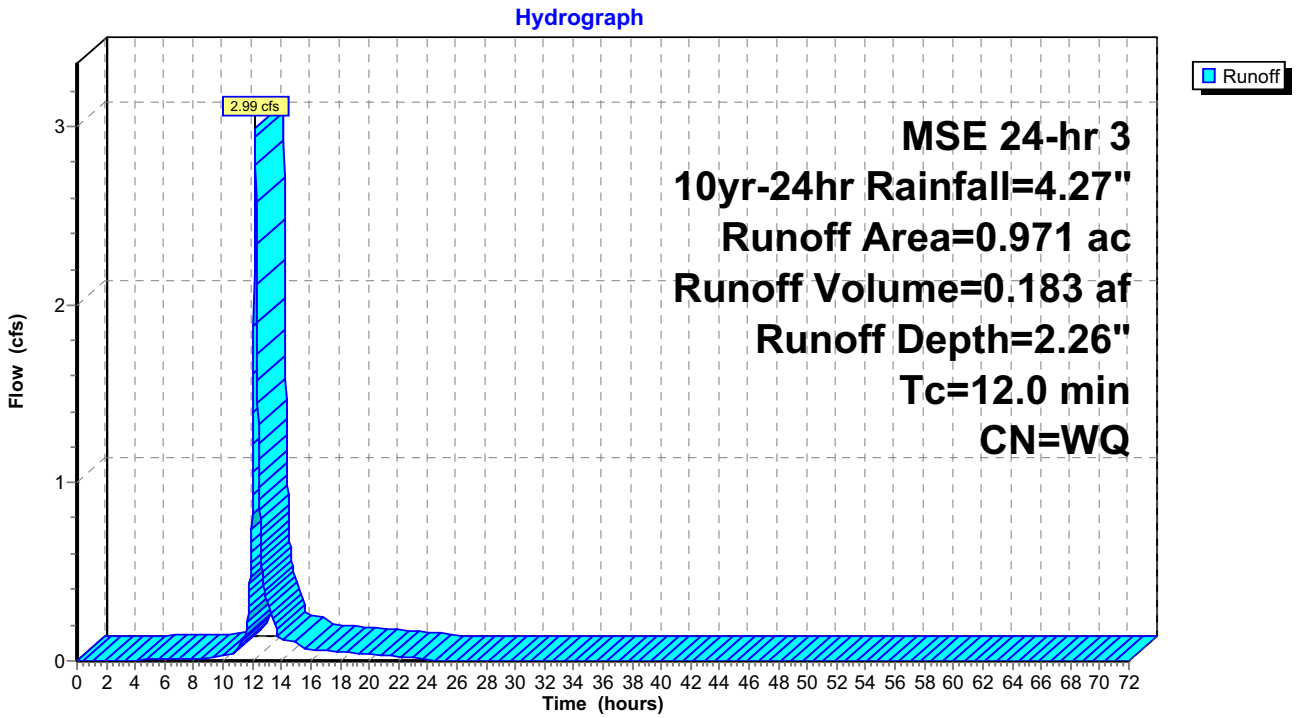
Runoff = 2.99 cfs @ 12.20 hrs, Volume= 0.183 af, Depth= 2.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.205	98	Impervious
	0.003	39	>75% Grass cover, Good, HSG A
	0.763	74	>75% Grass cover, Good, HSG C
	0.971		Weighted Average
	0.766		78.89% Pervious Area
	0.205		21.11% Impervious Area

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

Subcatchment L9: L9



Summary for Subcatchment O10: O10

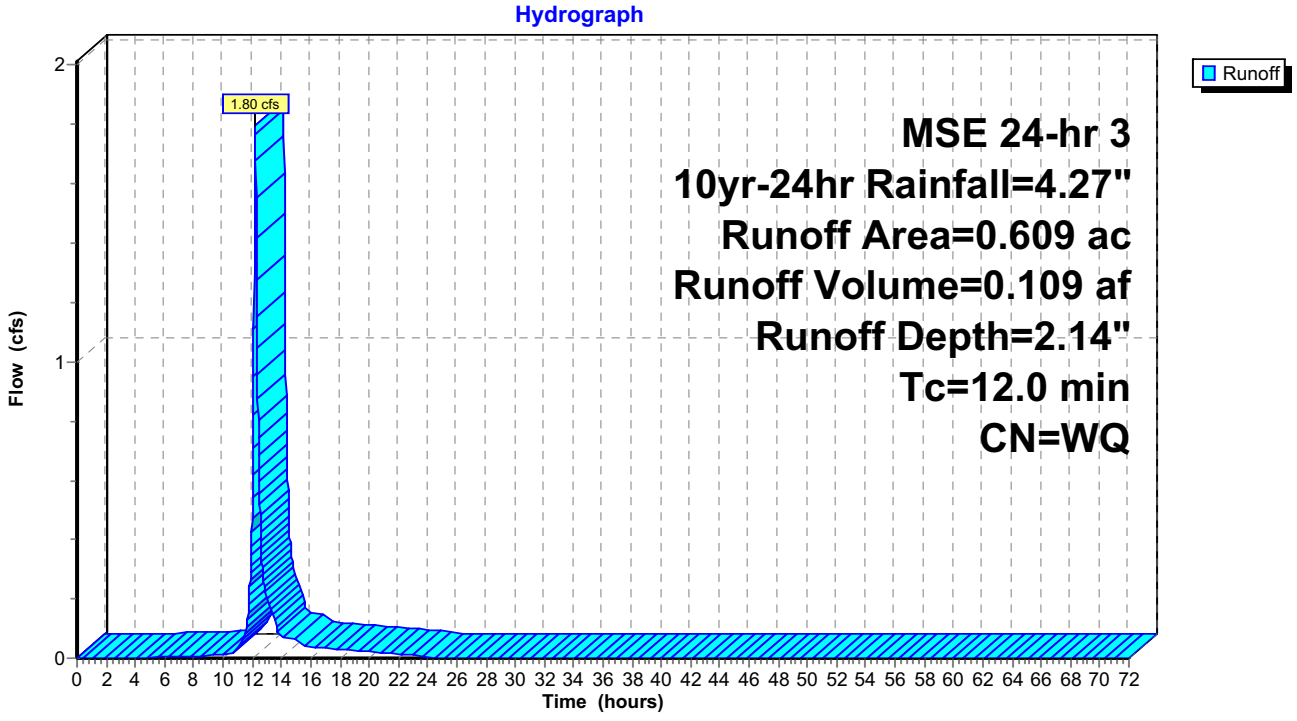
Runoff = 1.80 cfs @ 12.20 hrs, Volume= 0.109 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.094	98	Impervious
	0.515	74	>75% Grass cover, Good, HSG C
	0.609		Weighted Average
	0.515		84.56% Pervious Area
	0.094		15.44% Impervious Area

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

Subcatchment O10: O10



Summary for Subcatchment O8: O8

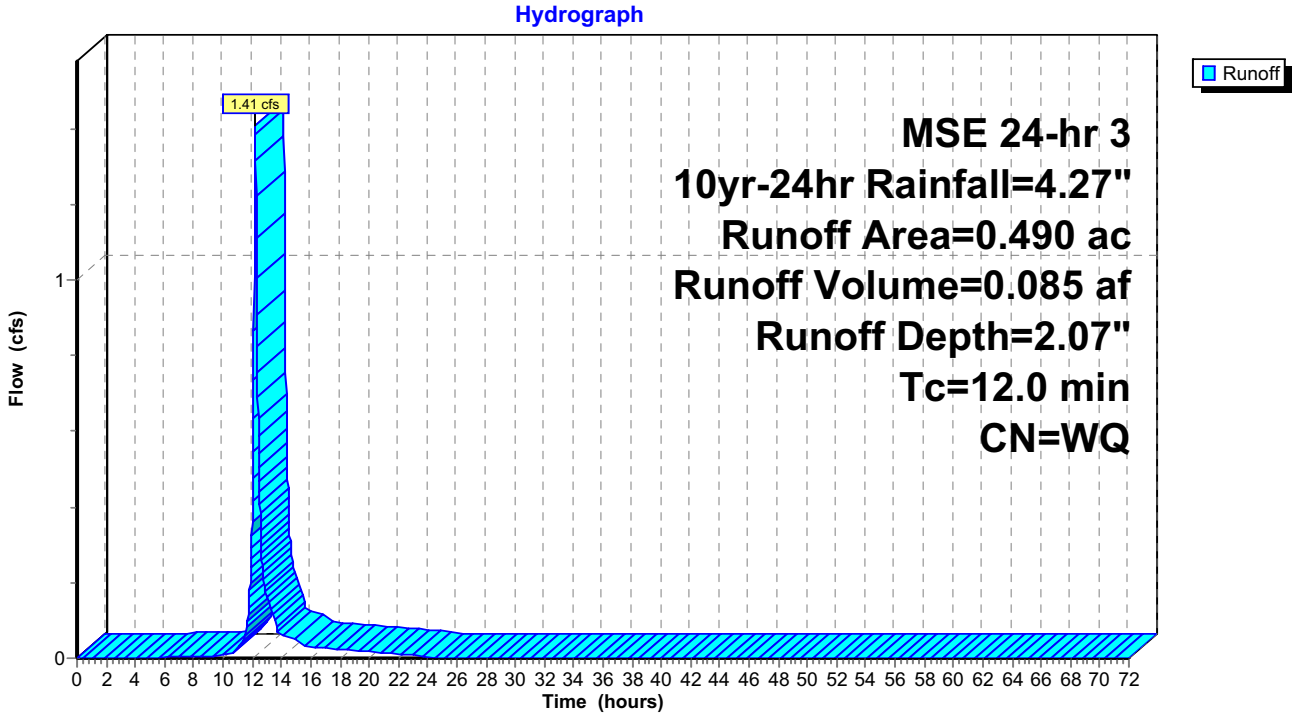
Runoff = 1.41 cfs @ 12.20 hrs, Volume= 0.085 af, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.060	98	Impervious
	0.430	74	>75% Grass cover, Good, HSG C
	0.490		Weighted Average
	0.430		87.76% Pervious Area
	0.060		12.24% Impervious Area

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

Subcatchment O8: O8



Summary for Subcatchment O9: O9

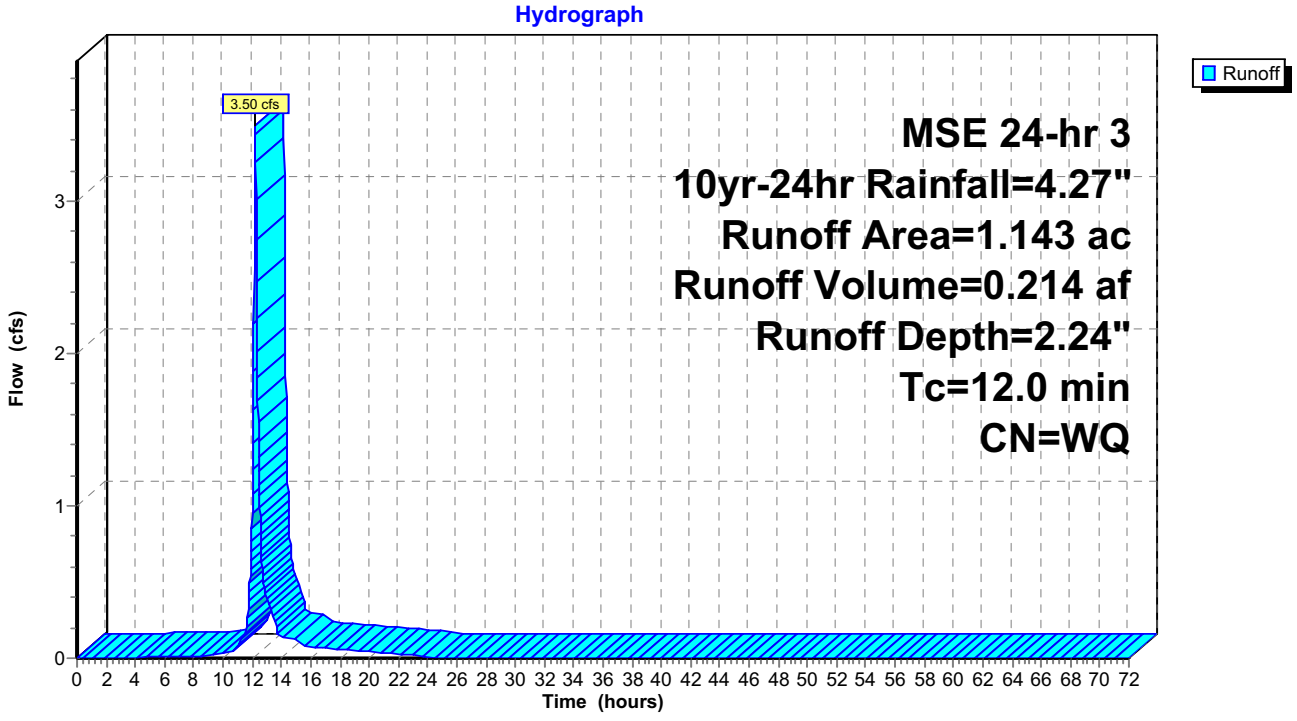
Runoff = 3.50 cfs @ 12.20 hrs, Volume= 0.214 af, Depth= 2.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	0.227	98	Impervious
	0.916	74	>75% Grass cover, Good, HSG C
	1.143		Weighted Average
	0.916		80.14% Pervious Area
	0.227		19.86% Impervious Area

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

Subcatchment O9: O9



Summary for Subcatchment W6: W6

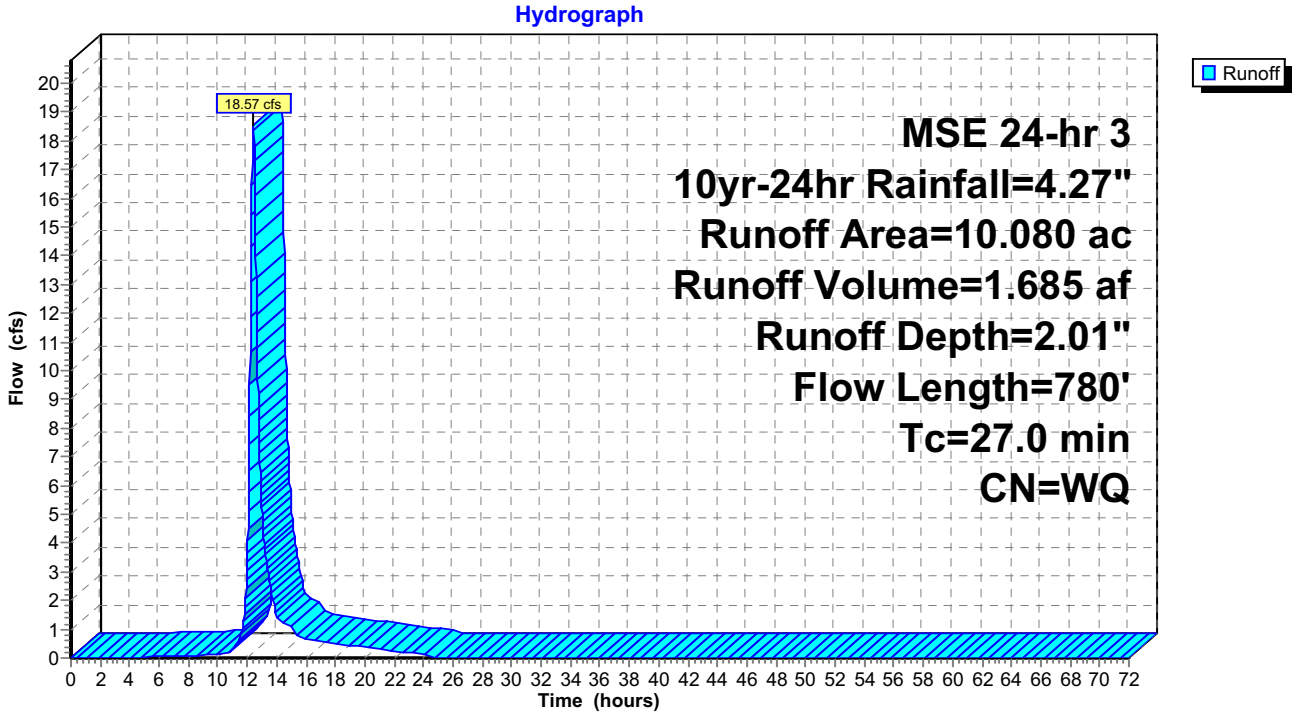
Runoff = 18.57 cfs @ 12.39 hrs, Volume= 1.685 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
*	1.008	98	Impervious
	6.933	74	>75% Grass cover, Good, HSG C
	2.139	73	Woods, Fair, HSG C
	10.080		Weighted Average
	9.072		90.00% Pervious Area
	1.008		10.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	300	0.0330	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
6.6	480	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
27.0	780	Total			

Subcatchment W6: W6



Summary for Subcatchment W6_100: W6_100

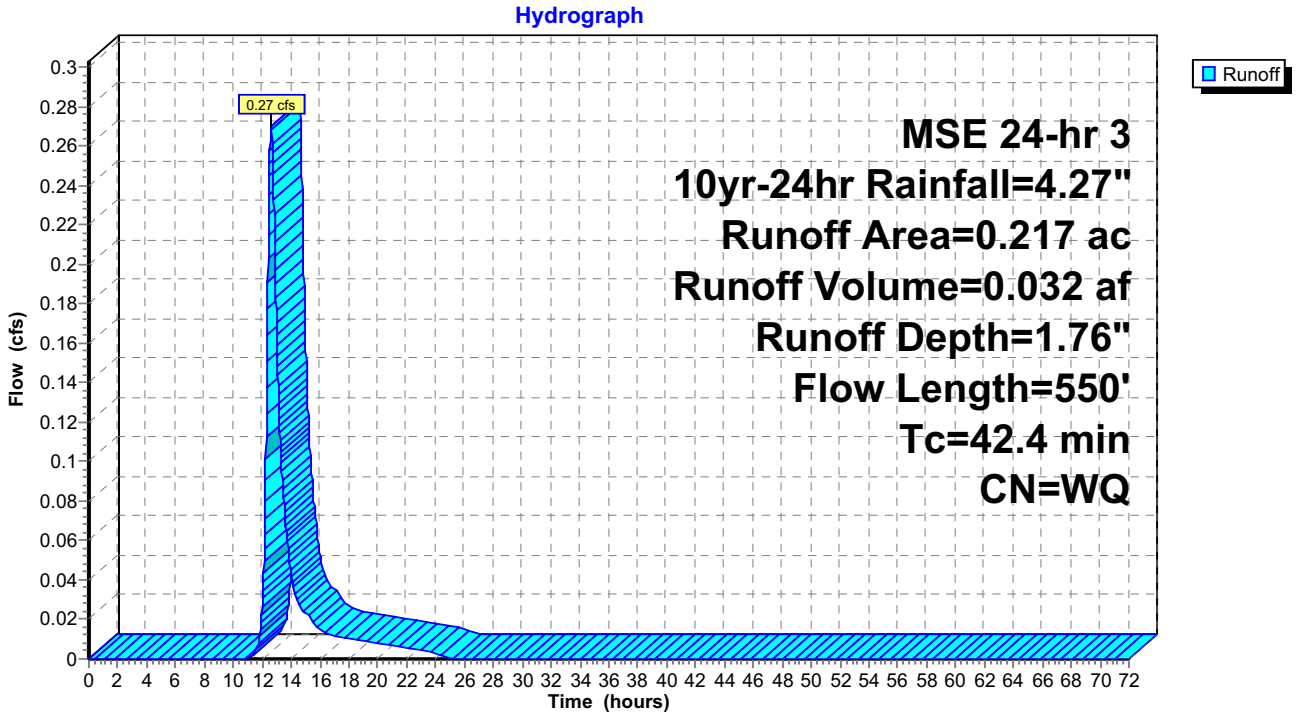
Runoff = 0.27 cfs @ 12.61 hrs, Volume= 0.032 af, Depth= 1.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

Area (ac)	CN	Description
0.094	74	>75% Grass cover, Good, HSG C
0.123	73	Woods, Fair, HSG C
0.217		Weighted Average
0.217		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.8	300	0.0470	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.87"
3.6	250	0.0280	1.17		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
42.4	550	Total			

Subcatchment W6_100: W6_100



Summary for Subcatchment W6_101: W6_101

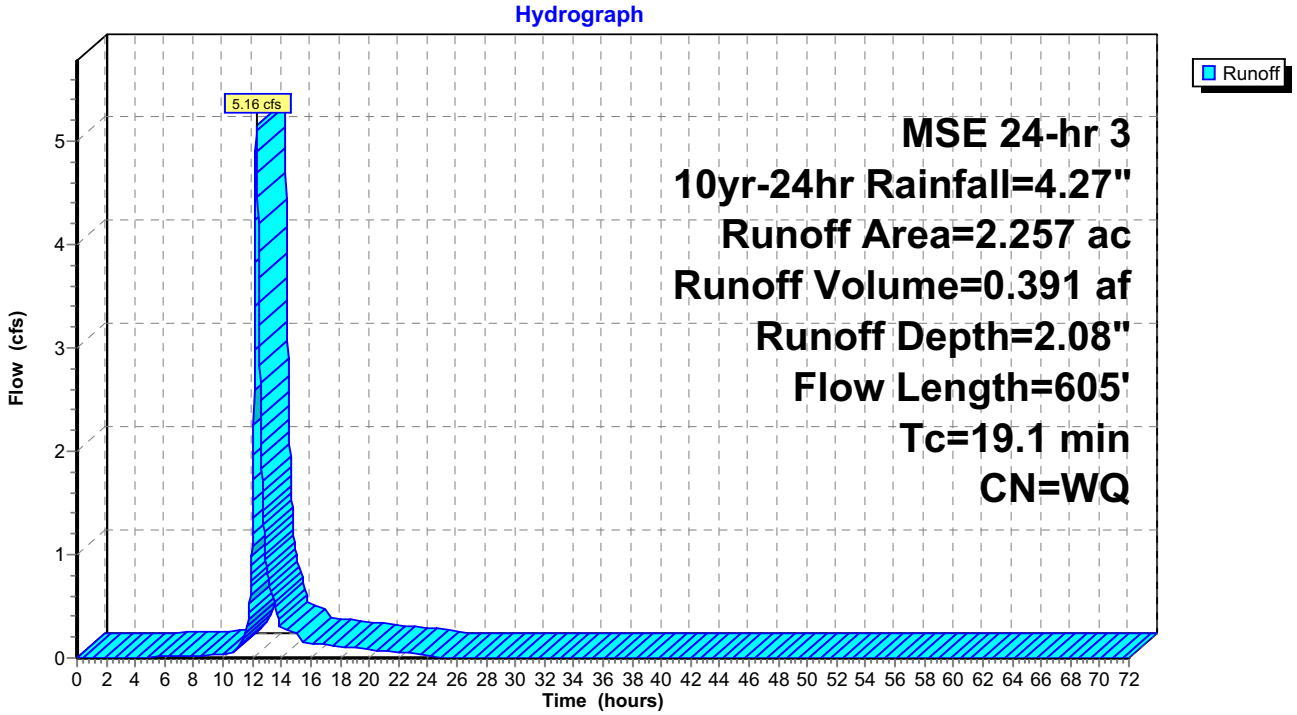
Runoff = 5.16 cfs @ 12.29 hrs, Volume= 0.391 af, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	1.497	74	>75% Grass cover, Good, HSG C
*	0.297	98	Impervious
	0.463	73	Woods, Fair, HSG C
	2.257		Weighted Average
	1.960		86.84% Pervious Area
	0.297		13.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	295	0.0680	0.33		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
4.0	310	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
19.1	605	Total			

Subcatchment W6_101: W6_101



Summary for Subcatchment W6_102: W6_102

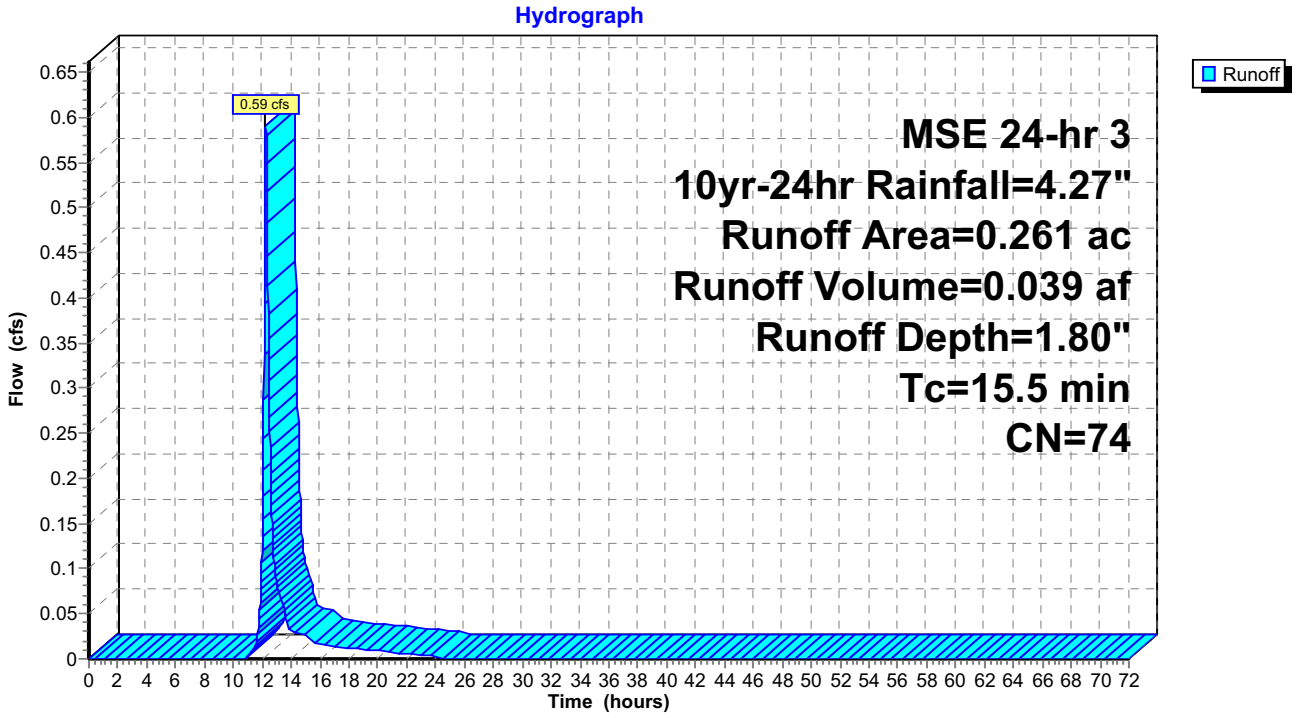
Runoff = 0.59 cfs @ 12.25 hrs, Volume= 0.039 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

Area (ac)	CN	Description
0.261	74	>75% Grass cover, Good, HSG C
0.261		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5					**Direct Entry, From Existing Conditions (EX_5)**

Subcatchment W6_102: W6_102



Summary for Subcatchment W9: W9

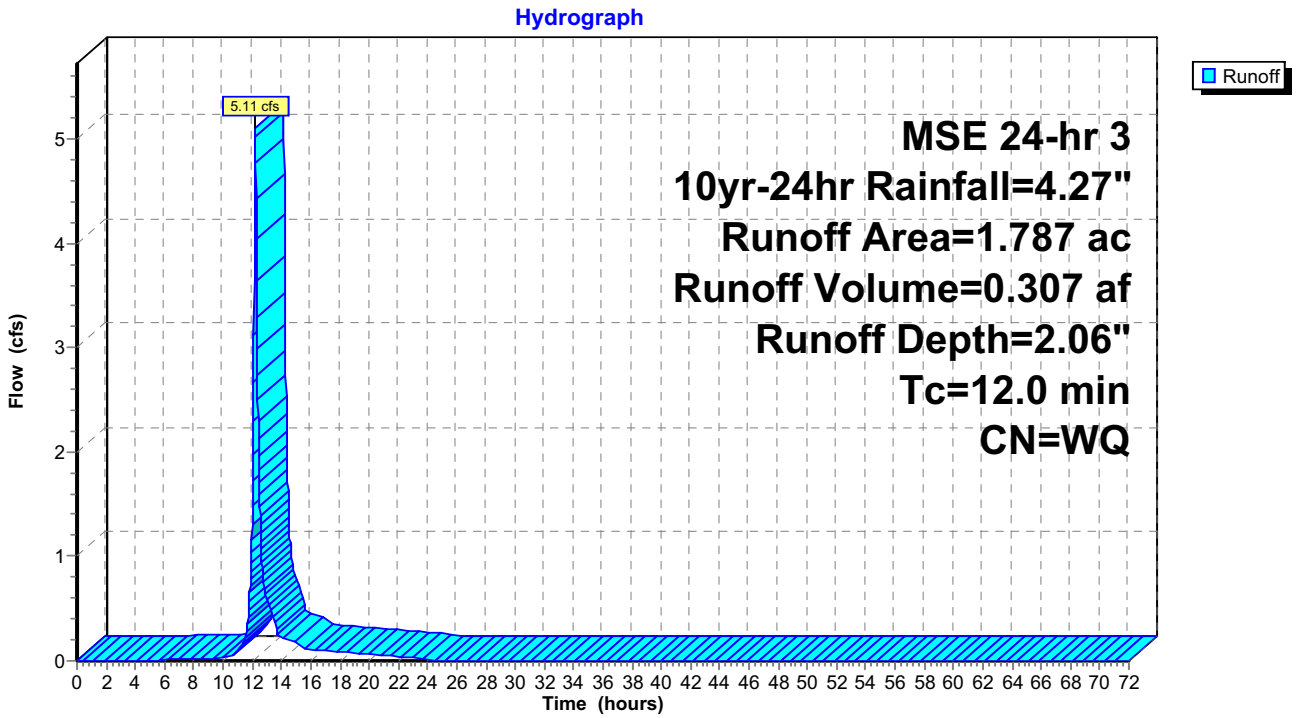
Runoff = 5.11 cfs @ 12.20 hrs, Volume= 0.307 af, Depth= 2.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	1.416	74	>75% Grass cover, Good, HSG C
*	0.217	98	Pond
	0.154	73	Woods, Fair, HSG C
	1.787		Weighted Average
	1.570		87.86% Pervious Area
	0.217		12.14% Impervious Area

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

Subcatchment W9: W9



Summary for Subcatchment W9_100: W9_100

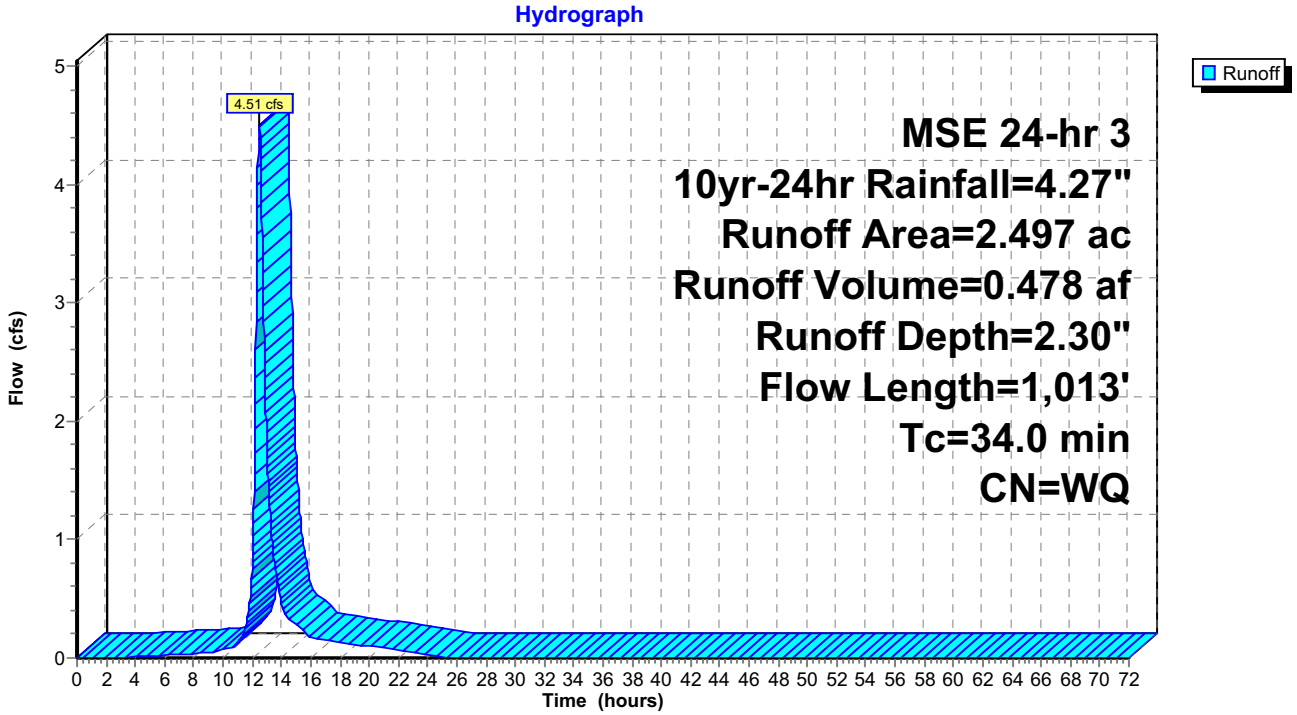
Runoff = 4.51 cfs @ 12.49 hrs, Volume= 0.478 af, Depth= 2.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	1.912	74	>75% Grass cover, Good, HSG C
*	0.557	98	Impervious
	0.028	73	Woods, Fair, HSG C
	2.497		Weighted Average
	1.940		77.69% Pervious Area
	0.557		22.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.2	223	0.0450	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
19.8	790	0.0090	0.66		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
34.0	1,013	Total			

Subcatchment W9_100: W9_100



Summary for Subcatchment W9_101: W9_101

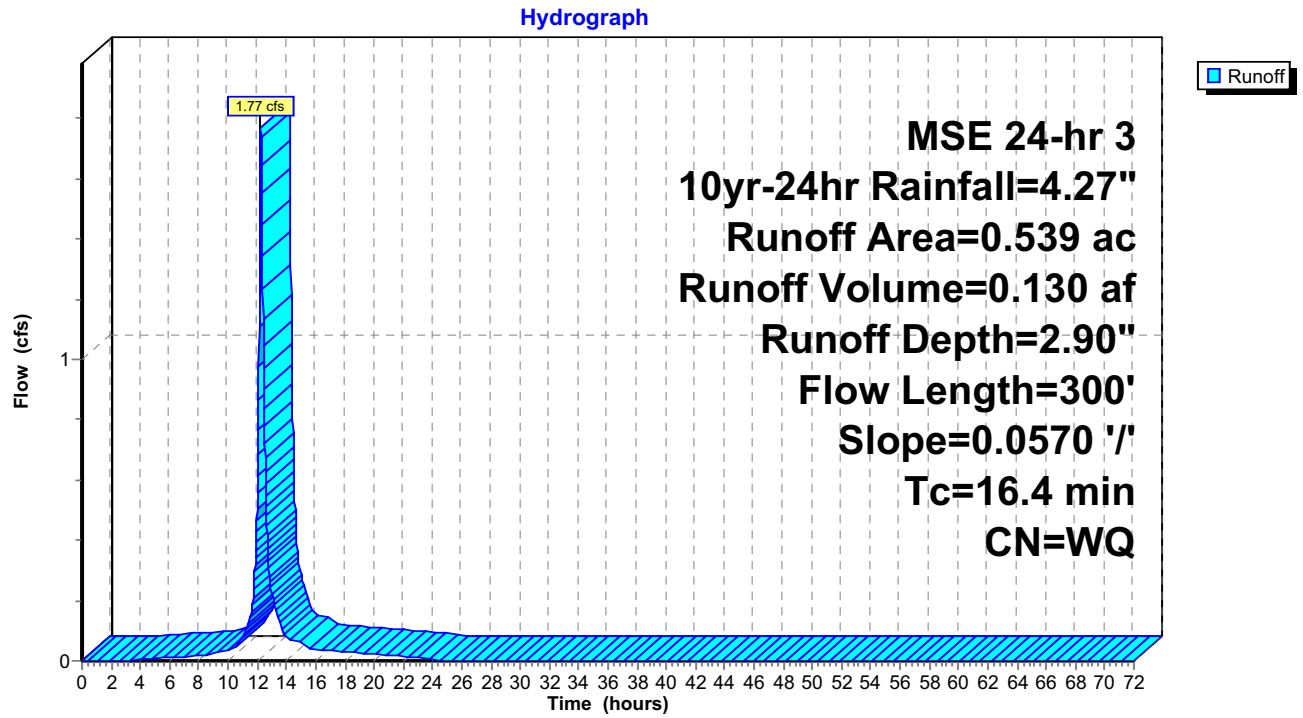
Runoff = 1.77 cfs @ 12.25 hrs, Volume= 0.130 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 10yr-24hr Rainfall=4.27"

	Area (ac)	CN	Description
	0.274	74	>75% Grass cover, Good, HSG C
*	0.265	98	Impervious
	0.539		Weighted Average
	0.274		50.83% Pervious Area
	0.265		49.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	300	0.0570	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment W9_101: W9_101



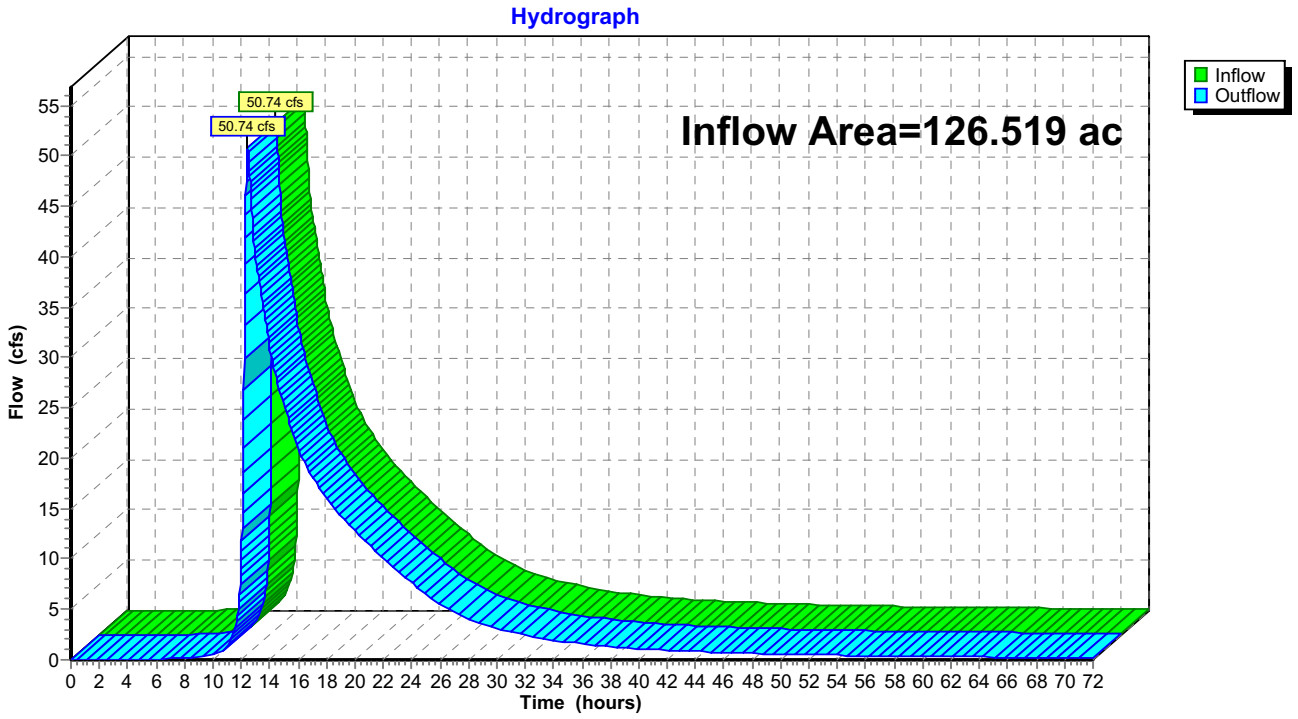
Summary for Reach 1R: Bassett Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 126.519 ac, 32.01% Impervious, Inflow Depth > 2.35" for 10yr-24hr event
Inflow = 50.74 cfs @ 12.45 hrs, Volume= 24.797 af
Outflow = 50.74 cfs @ 12.45 hrs, Volume= 24.797 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 1R: Bassett Creek Watershed



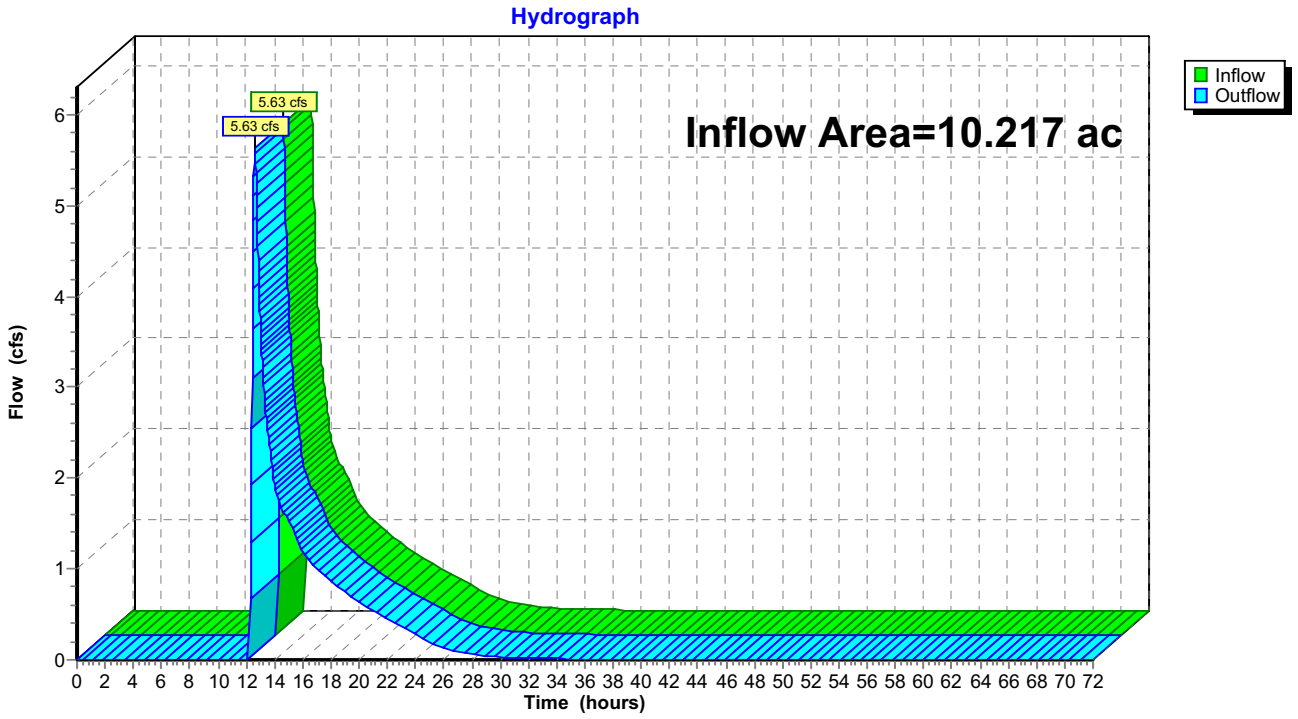
Summary for Reach 5R: Elm Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.217 ac, 25.83% Impervious, Inflow Depth = 1.43" for 10yr-24hr event
Inflow = 5.63 cfs @ 12.62 hrs, Volume= 1.217 af
Outflow = 5.63 cfs @ 12.62 hrs, Volume= 1.217 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 5R: Elm Creek Watershed



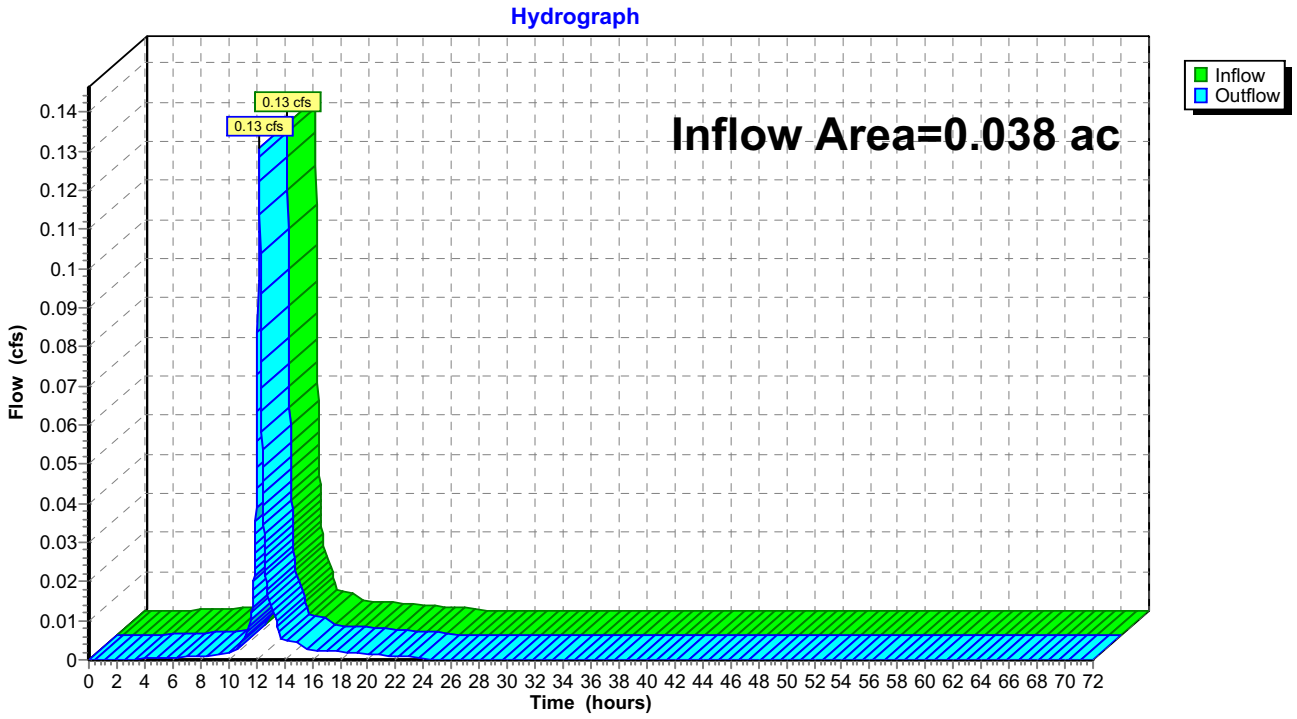
Summary for Reach 8R: Offsite

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.038 ac, 36.84% Impervious, Inflow Depth = 2.62" for 10yr-24hr event
Inflow = 0.13 cfs @ 12.20 hrs, Volume= 0.008 af
Outflow = 0.13 cfs @ 12.20 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 8R: Offsite



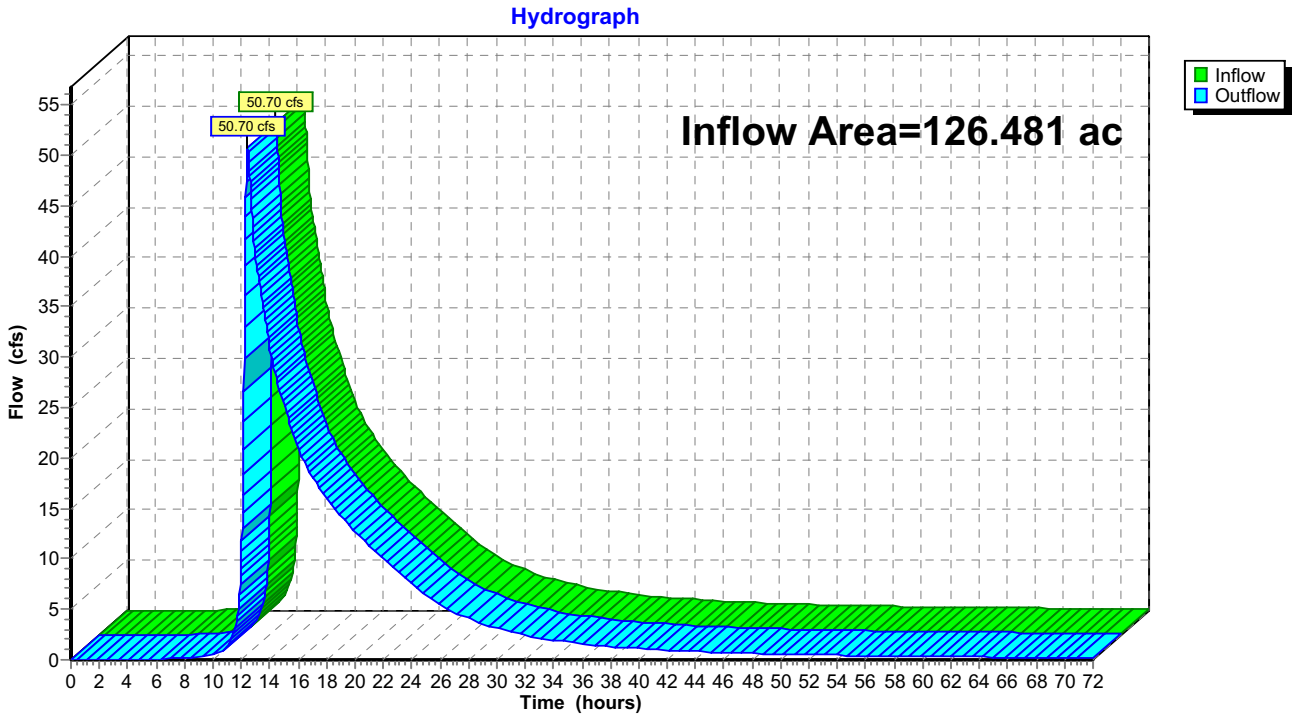
Summary for Reach Wetland: Wetland 6

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 126.481 ac, 32.01% Impervious, Inflow Depth > 2.35" for 10yr-24hr event
Inflow = 50.70 cfs @ 12.45 hrs, Volume= 24.789 af
Outflow = 50.70 cfs @ 12.45 hrs, Volume= 24.789 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach Wetland: Wetland 6



Summary for Pond 4P: CB_22 pipe

[57] Hint: Peaked at 971.44' (Flood elevation advised)

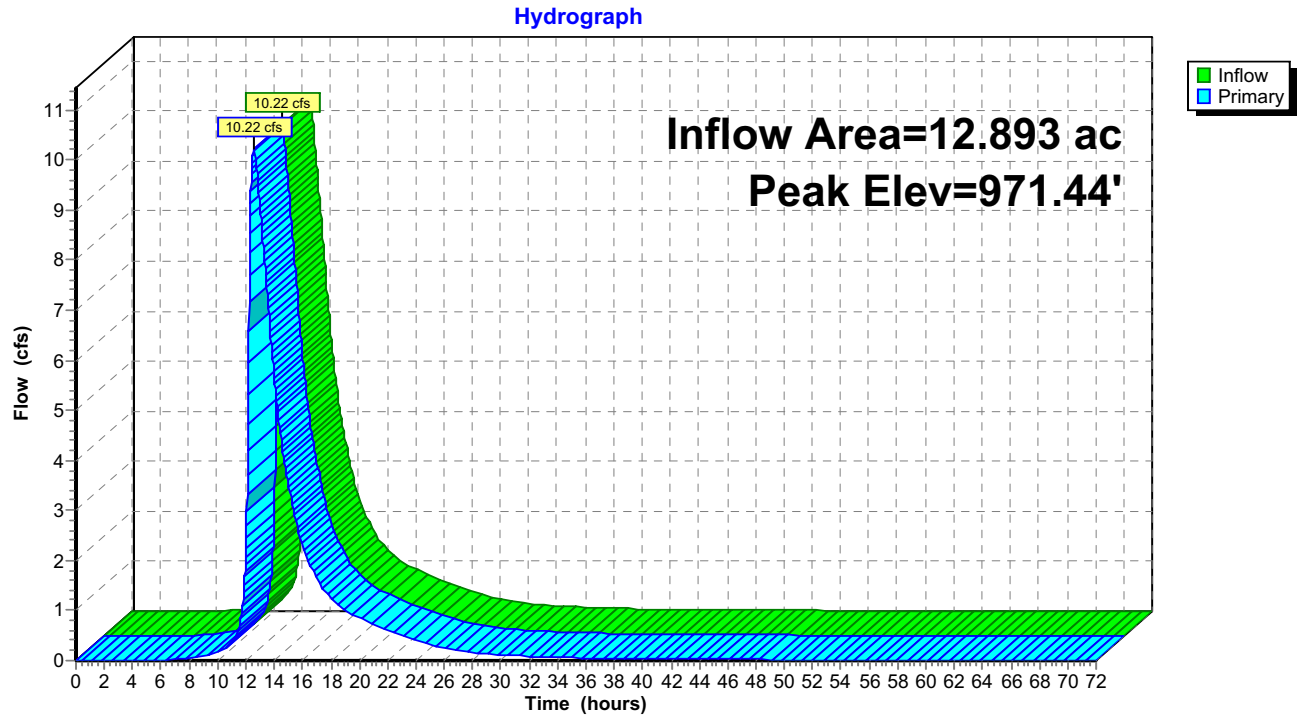
Inflow Area = 12.893 ac, 39.76% Impervious, Inflow Depth > 2.66" for 10yr-24hr event
Inflow = 10.22 cfs @ 12.55 hrs, Volume= 2.858 af
Outflow = 10.22 cfs @ 12.55 hrs, Volume= 2.858 af, Atten= 0%, Lag= 0.0 min
Primary = 10.22 cfs @ 12.55 hrs, Volume= 2.858 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 971.44' @ 12.55 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	969.20'	**24.0" Round Structure I2 to I1** L= 40.7' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.20' / 969.00' S= 0.0049 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Device 1	969.50'	**21.0" Round Structure I9 to I2** L= 87.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.50' / 969.20' S= 0.0034 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf

Primary OutFlow Max=10.22 cfs @ 12.55 hrs HW=971.44' TW=970.61' (Dynamic Tailwater)
↑**1=Structure I2 to I1** (Passes 10.22 cfs of 15.58 cfs potential flow)
↑**2=Structure I9 to I2** (Barrel Controls 10.22 cfs @ 4.79 fps)

Pond 4P: CB_22 pipe



Summary for Pond CB_A10: CB_A10

Inflow Area = 0.864 ac, 25.81% Impervious, Inflow Depth = 3.07" for 10yr-24hr event
Inflow = 3.57 cfs @ 12.20 hrs, Volume= 0.221 af
Outflow = 3.56 cfs @ 12.21 hrs, Volume= 0.221 af, Atten= 0%, Lag= 0.4 min
Primary = 3.56 cfs @ 12.21 hrs, Volume= 0.221 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.29' @ 12.21 hrs Surf.Area= 483 sf Storage= 77 cf

Plug-Flow detention time= 0.3 min calculated for 0.221 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (791.6 - 791.2)

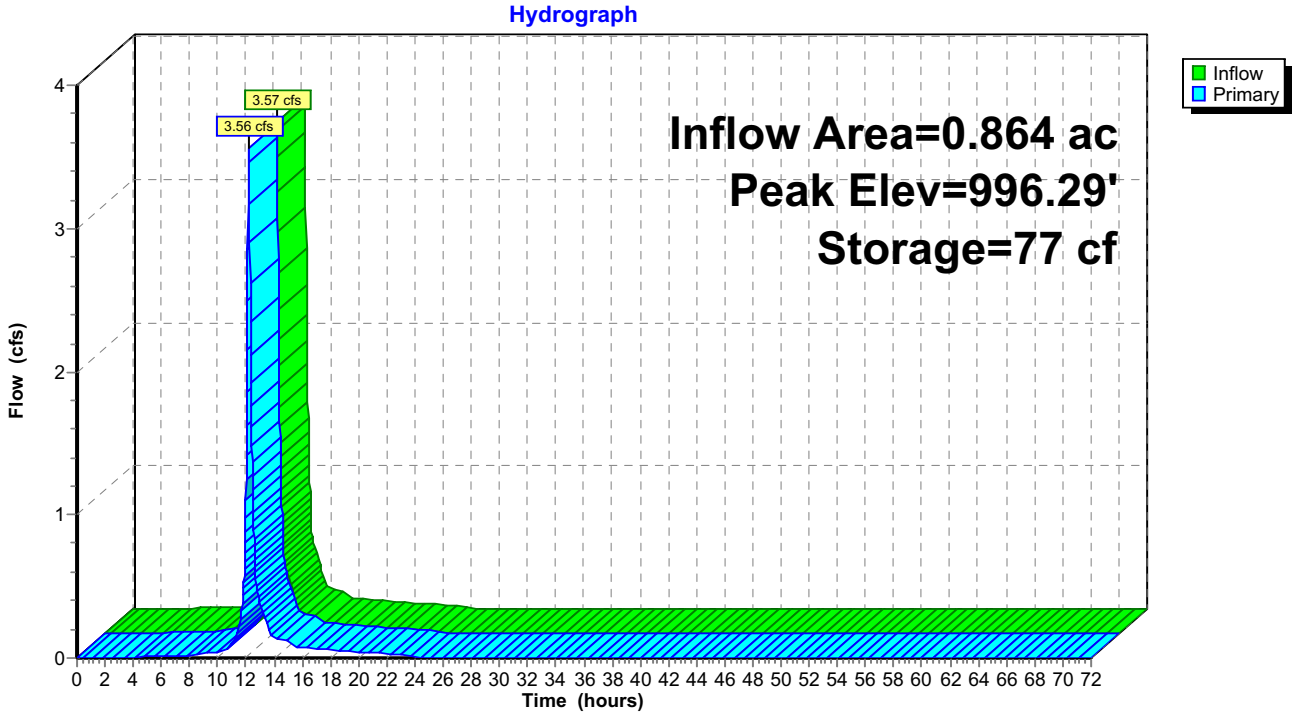
Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	3,110 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	3,060	3,110	3,110

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.55 cfs @ 12.21 hrs HW=996.29' TW=979.01' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.55 cfs @ 1.75 fps)

Pond CB_A10: CB_A10



Summary for Pond CB_A15: CB_A15

Inflow Area = 0.696 ac, 28.02% Impervious, Inflow Depth = 2.42" for 10yr-24hr event
Inflow = 2.27 cfs @ 12.20 hrs, Volume= 0.141 af
Outflow = 2.27 cfs @ 12.21 hrs, Volume= 0.141 af, Atten= 0%, Lag= 0.4 min
Primary = 1.46 cfs @ 12.21 hrs, Volume= 0.091 af
Secondary = 0.80 cfs @ 12.21 hrs, Volume= 0.050 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 998.16' @ 12.21 hrs Surf.Area= 469 sf Storage= 41 cf

Plug-Flow detention time= 0.3 min calculated for 0.141 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (790.0 - 789.7)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	5,372 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	50	0	0
1,000.00	5,322	5,372	5,372

Device	Routing	Invert	Outlet Devices
#1	Primary	998.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.00'	**5.0' 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=1.46 cfs @ 12.21 hrs HW=998.16' TW=979.00' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 1.46 cfs @ 1.30 fps)

Secondary OutFlow Max=0.80 cfs @ 12.21 hrs HW=998.16' TW=996.29' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 0.80 cfs @ 1.01 fps)

Hollydale - Proposed Conditions - 6.25.2020
Prepared by AE2S
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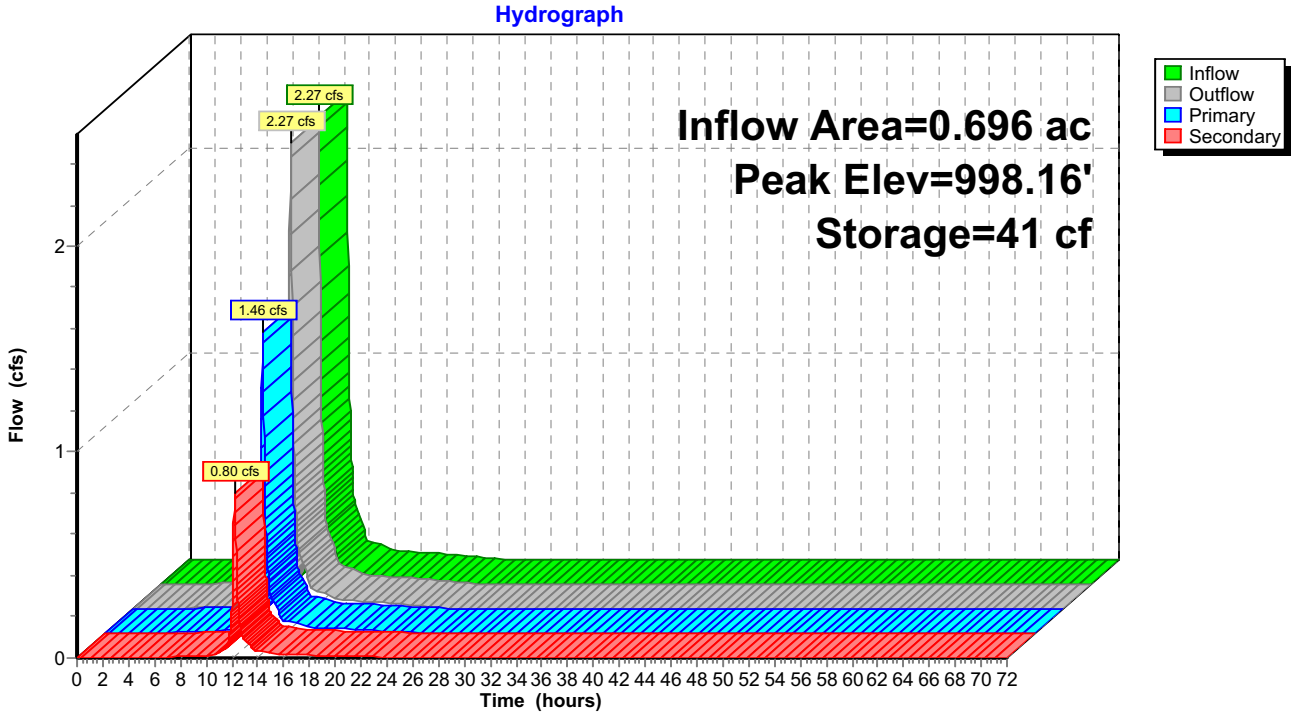
Pond CB_A15: CB_A15



Summary for Pond CB_A8: CB_A8

Inflow Area = 0.095 ac, 10.53% Impervious, Inflow Depth = 2.03" for 10yr-24hr event
Inflow = 0.27 cfs @ 12.20 hrs, Volume= 0.016 af
Outflow = 0.27 cfs @ 12.21 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.3 min
Primary = 0.27 cfs @ 12.21 hrs, Volume= 0.016 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.05' @ 12.21 hrs Surf.Area= 124 sf Storage= 4 cf

Plug-Flow detention time= 0.4 min calculated for 0.016 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (807.8 - 807.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	4,988 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.50	2,200	1,688	1,688
1,005.00	2,200	3,300	4,988

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.50'	**5.0' 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=0.27 cfs @ 12.21 hrs HW=1,002.05' TW=979.01' (Dynamic Tailwater)
1=Grate (Weir Controls 0.27 cfs @ 0.74 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,002.00' (Dynamic Tailwater)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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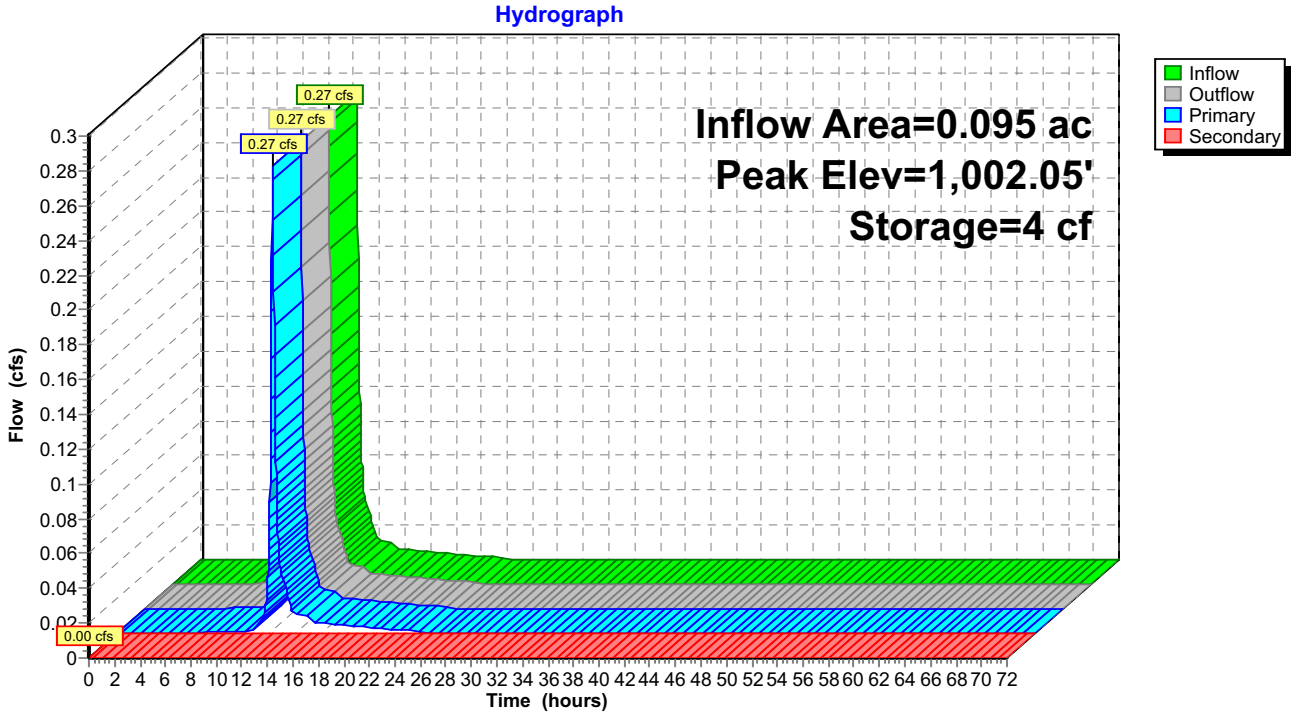
Pond CB_A8: CB_A8



Summary for Pond CB_A9: CB_A9

Inflow Area = 0.671 ac, 21.61% Impervious, Inflow Depth = 2.28" for 10yr-24hr event
Inflow = 2.08 cfs @ 12.20 hrs, Volume= 0.128 af
Outflow = 1.73 cfs @ 12.27 hrs, Volume= 0.128 af, Atten= 17%, Lag= 4.1 min
Primary = 1.73 cfs @ 12.27 hrs, Volume= 0.128 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.18' @ 12.27 hrs Surf.Area= 4,242 sf Storage= 740 cf

Plug-Flow detention time= 15.6 min calculated for 0.128 af (100% of inflow)
Center-of-Mass det. time= 15.3 min (810.7 - 795.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	21,200 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	4,100	0	0
1,004.00	5,700	9,800	9,800
1,006.00	5,700	11,400	21,200

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,004.00'	**5.0' 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=1.72 cfs @ 12.27 hrs HW=1,002.18' TW=979.19' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.72 cfs @ 1.38 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=997.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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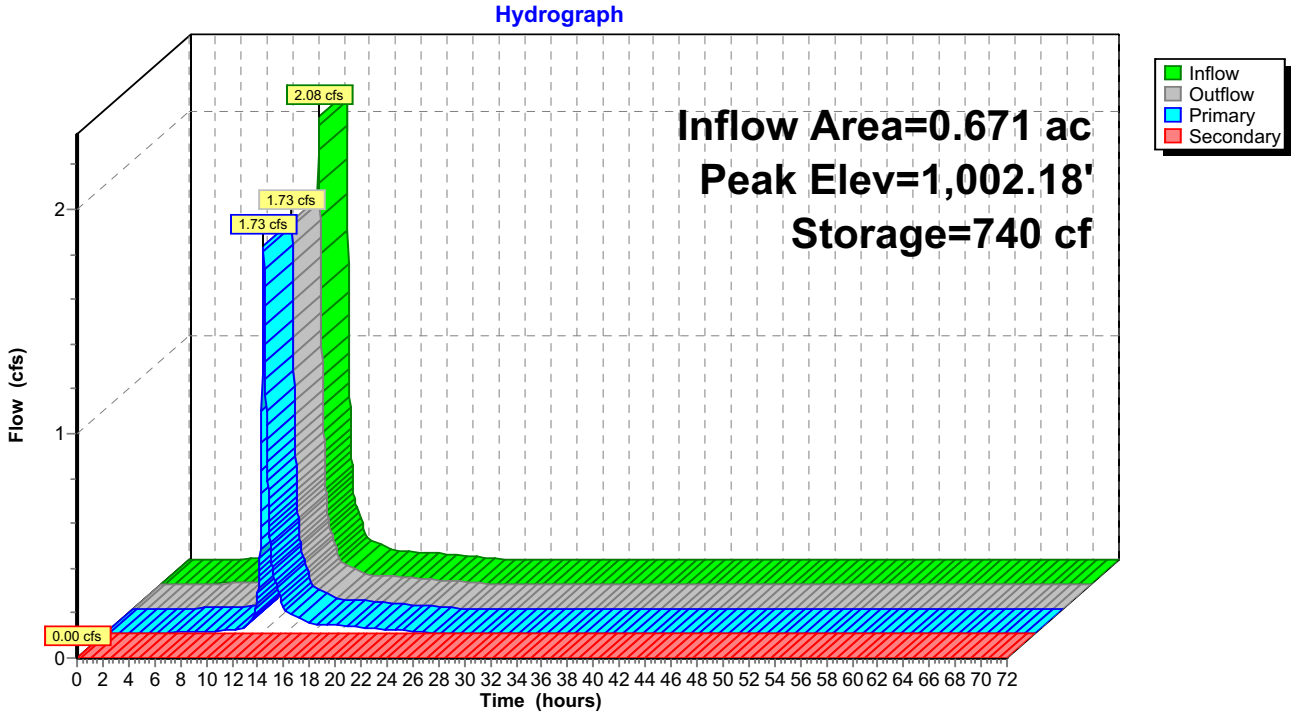
Pond CB_A9: CB_A9



Summary for Pond CB_B5: CB_B5

Inflow Area = 0.552 ac, 7.25% Impervious, Inflow Depth = 1.94" for 10yr-24hr event
Inflow = 1.50 cfs @ 12.20 hrs, Volume= 0.089 af
Outflow = 1.50 cfs @ 12.21 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.4 min
Primary = 1.50 cfs @ 12.21 hrs, Volume= 0.089 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.16' @ 12.21 hrs Surf.Area= 350 sf Storage= 32 cf

Plug-Flow detention time= 0.4 min calculated for 0.089 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (812.3 - 811.9)

Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	3,820 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

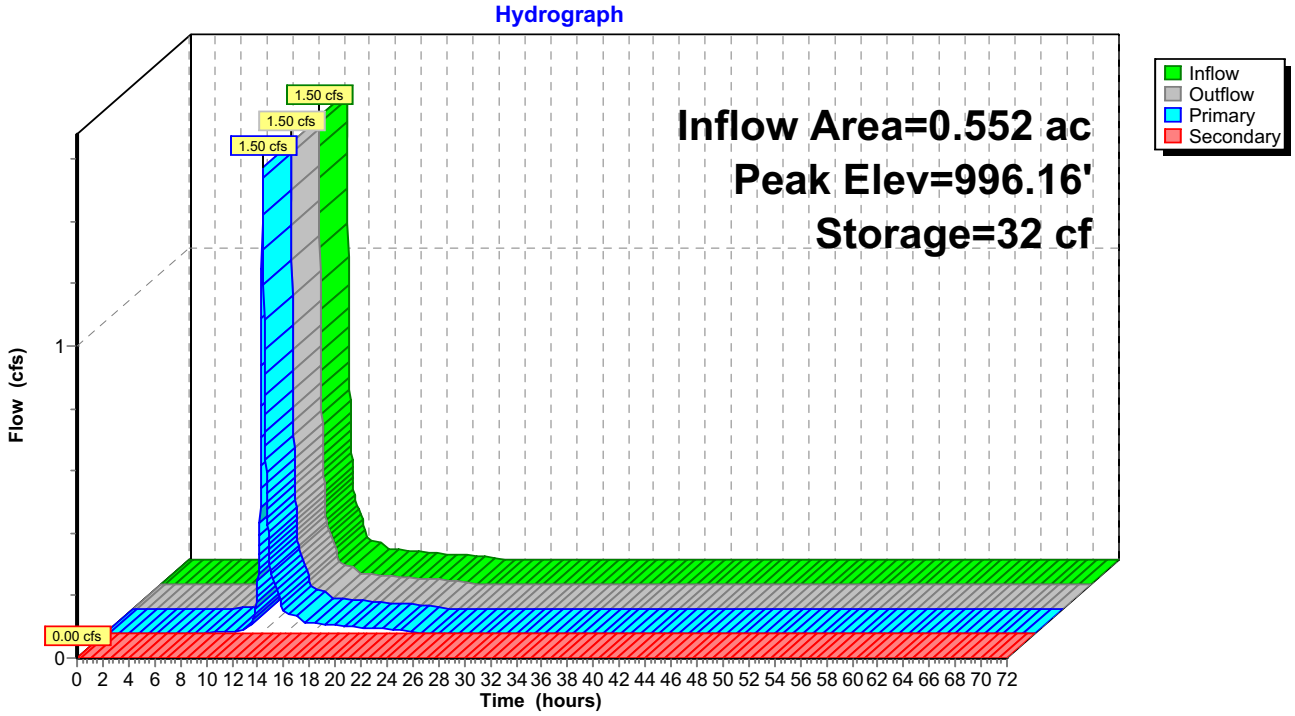
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	3,770	3,820	3,820

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=1.49 cfs @ 12.21 hrs HW=996.16' TW=979.02' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.49 cfs @ 1.31 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=996.00' TW=994.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_B5: CB_B5



Summary for Pond CB_B6: CB_B6

Inflow Area = 1.508 ac, 9.28% Impervious, Inflow Depth = 2.50" for 10yr-24hr event
Inflow = 5.23 cfs @ 12.21 hrs, Volume= 0.314 af
Outflow = 5.20 cfs @ 12.22 hrs, Volume= 0.314 af, Atten= 1%, Lag= 0.7 min
Primary = 5.20 cfs @ 12.22 hrs, Volume= 0.314 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.37' @ 12.22 hrs Surf.Area= 832 sf Storage= 163 cf

Plug-Flow detention time= 0.4 min calculated for 0.314 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (808.9 - 808.4)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	29,510 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
996.00	4,280	4,330	4,330
998.00	20,900	25,180	29,510

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.00'	**5.0' 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=5.19 cfs @ 12.22 hrs HW=994.37' TW=979.04' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 5.19 cfs @ 1.99 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=994.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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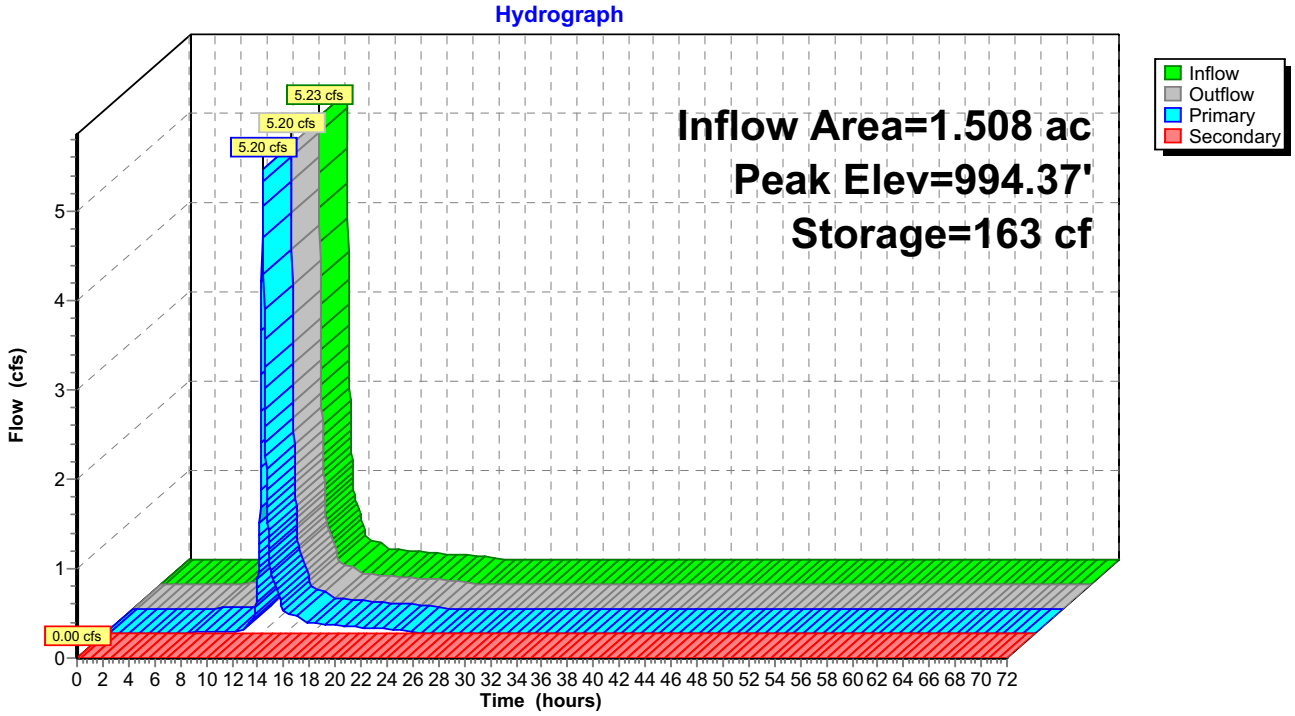
Pond CB_B6: CB_B6



Summary for Pond CB_B7: CB_B7

Inflow Area = 0.993 ac, 14.40% Impervious, Inflow Depth = 2.12" for 10yr-24hr event
Inflow = 2.91 cfs @ 12.20 hrs, Volume= 0.175 af
Outflow = 2.87 cfs @ 12.22 hrs, Volume= 0.175 af, Atten= 1%, Lag= 0.9 min
Primary = 1.85 cfs @ 12.22 hrs, Volume= 0.113 af
Secondary = 1.02 cfs @ 12.22 hrs, Volume= 0.062 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 998.19' @ 12.22 hrs Surf.Area= 1,240 sf Storage= 237 cf

Plug-Flow detention time= 4.4 min calculated for 0.175 af (100% of inflow)
Center-of-Mass det. time= 3.5 min (806.4 - 802.9)

Volume	Invert	Avail.Storage	Storage Description
#1	997.99'	1,246 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

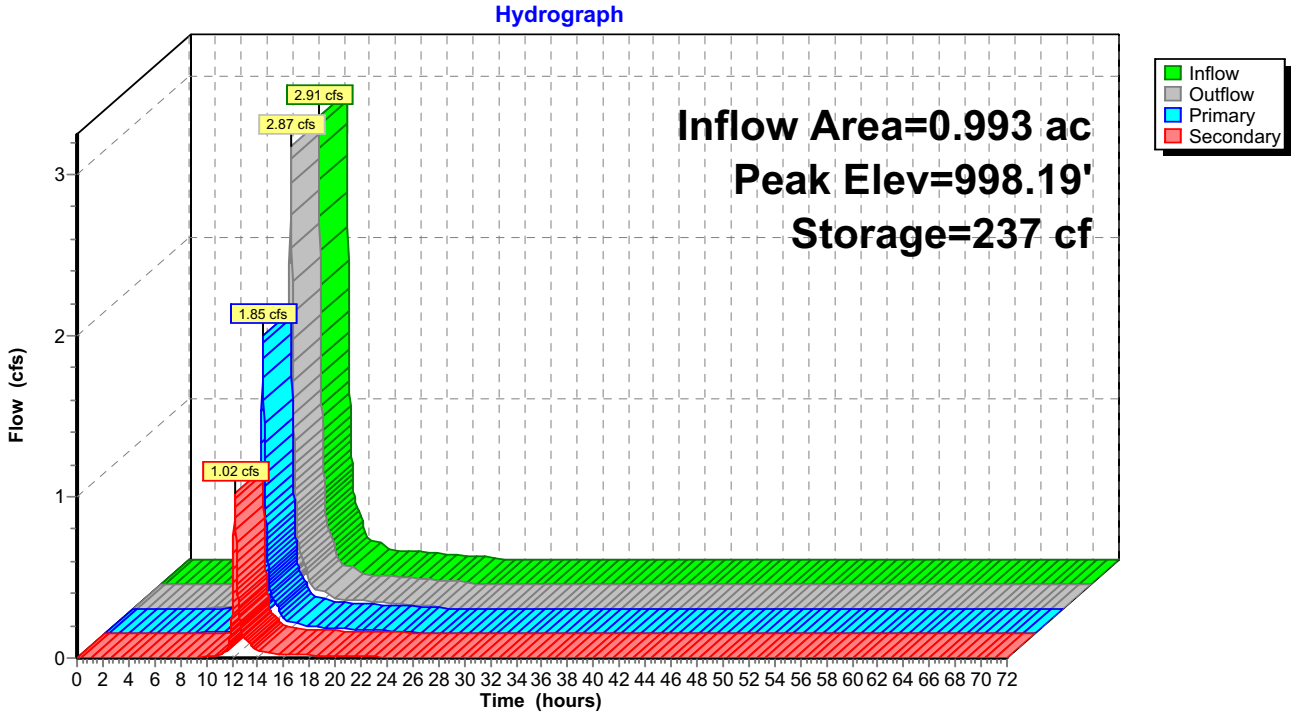
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.99	50	0	0
998.00	1,240	6	6
999.00	1,240	1,240	1,246

Device	Routing	Invert	Outlet Devices
#1	Primary	998.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.00'	**5.0' 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=1.85 cfs @ 12.22 hrs HW=998.19' TW=979.04' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.85 cfs @ 1.41 fps)

Secondary OutFlow Max=1.02 cfs @ 12.22 hrs HW=998.19' TW=994.37' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 1.02 cfs @ 1.09 fps)

Pond CB_B7: CB_B7



Summary for Pond CB_B8: CB_B8

Inflow Area = 1.140 ac, 19.74% Impervious, Inflow Depth = 2.23" for 10yr-24hr event
Inflow = 3.47 cfs @ 12.20 hrs, Volume= 0.212 af
Outflow = 3.47 cfs @ 12.20 hrs, Volume= 0.212 af, Atten= 0%, Lag= 0.2 min
Primary = 3.47 cfs @ 12.20 hrs, Volume= 0.212 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 995.78' @ 12.20 hrs Surf.Area= 174 sf Storage= 32 cf

Plug-Flow detention time= 0.2 min calculated for 0.212 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (797.6 - 797.4)

Volume	Invert	Avail.Storage	Storage Description
#1	995.50'	7,410 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

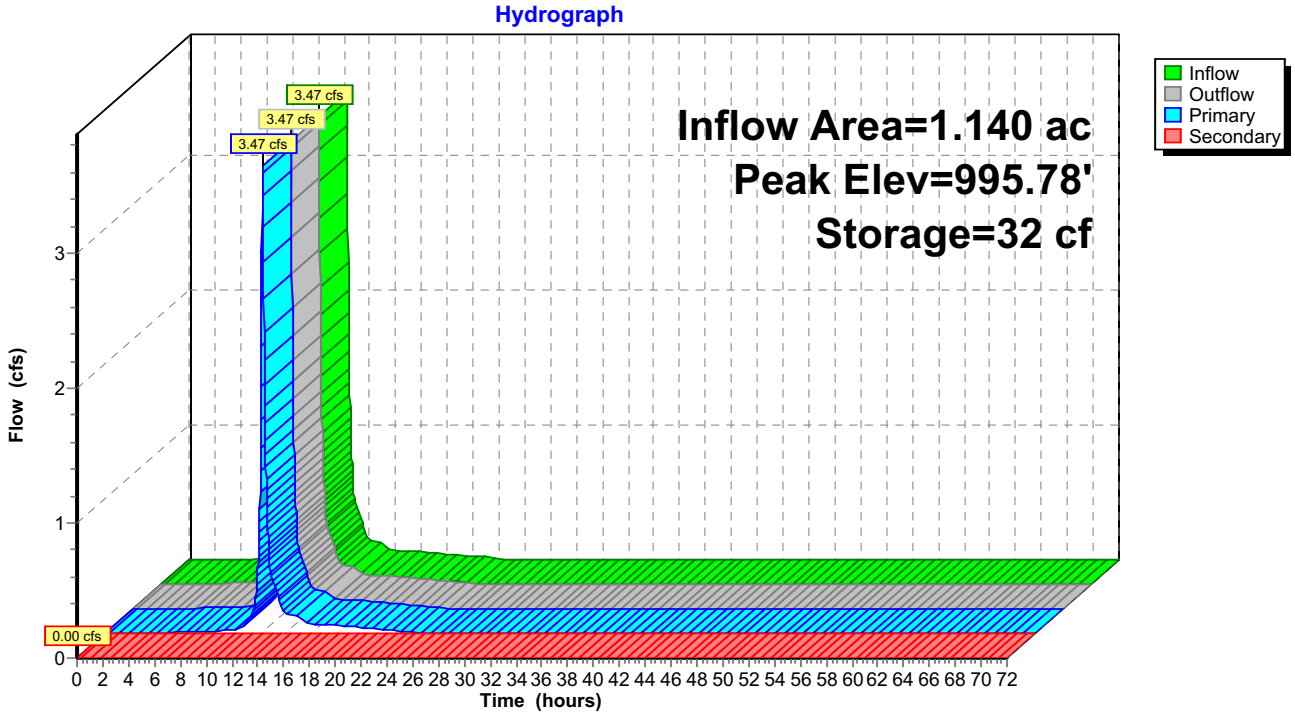
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
995.50	50	0	0
996.00	270	80	80
998.00	7,060	7,330	7,410

Device	Routing	Invert	Outlet Devices
#1	Primary	995.50'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=3.46 cfs @ 12.20 hrs HW=995.78' TW=979.00' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 3.46 cfs @ 1.74 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=995.50' TW=996.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_B8: CB_B8



Summary for Pond CB_C10: CB_C10

Inflow Area = 1.860 ac, 19.46% Impervious, Inflow Depth = 2.23" for 10yr-24hr event
Inflow = 5.67 cfs @ 12.20 hrs, Volume= 0.346 af
Outflow = 5.66 cfs @ 12.21 hrs, Volume= 0.346 af, Atten= 0%, Lag= 0.4 min
Primary = 5.66 cfs @ 12.21 hrs, Volume= 0.346 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.39' @ 12.21 hrs Surf.Area= 569 sf Storage= 121 cf

Plug-Flow detention time= 0.3 min calculated for 0.346 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (797.9 - 797.6)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	11,870 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
996.00	2,700	2,750	2,750
997.00	5,180	3,940	6,690
998.00	5,180	5,180	11,870

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.00'	**5.0' 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=5.63 cfs @ 12.21 hrs HW=994.39' TW=979.01' (Dynamic Tailwater)
↑**1=Grate** (Weir Controls 5.63 cfs @ 2.04 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=993.00' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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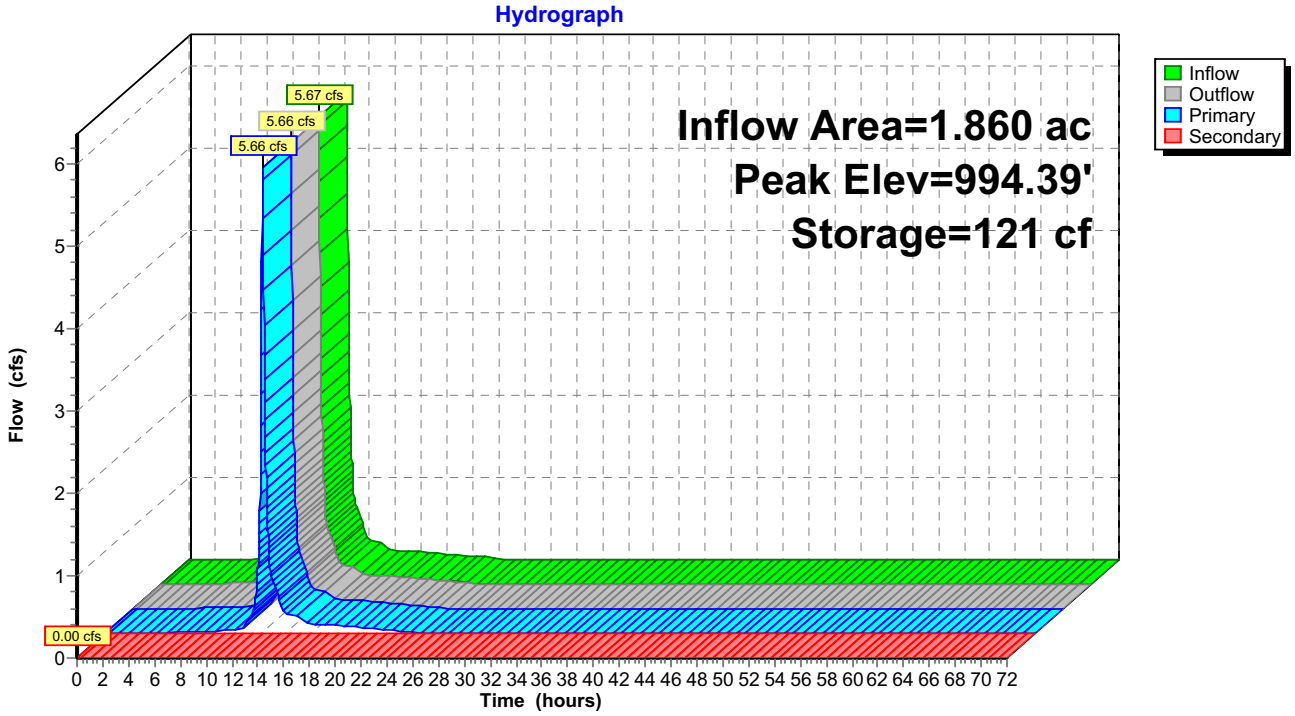
Pond CB_C10: CB_C10



Summary for Pond CB_C6: CB_C6

Inflow Area = 0.839 ac, 1.31% Impervious, Inflow Depth = 1.83" for 10yr-24hr event
Inflow = 2.19 cfs @ 12.20 hrs, Volume= 0.128 af
Outflow = 2.18 cfs @ 12.21 hrs, Volume= 0.128 af, Atten= 0%, Lag= 0.4 min
Primary = 2.18 cfs @ 12.21 hrs, Volume= 0.128 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 993.21' @ 12.21 hrs Surf.Area= 396 sf Storage= 46 cf

Plug-Flow detention time= 0.3 min calculated for 0.128 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (820.2 - 819.8)

Volume	Invert	Avail.Storage	Storage Description
#1	993.00'	885 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
993.00	50	0	0
994.00	1,720	885	885

Device	Routing	Invert	Outlet Devices
#1	Primary	993.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=2.17 cfs @ 12.21 hrs HW=993.21' TW=979.02' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.17 cfs @ 1.49 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=993.00' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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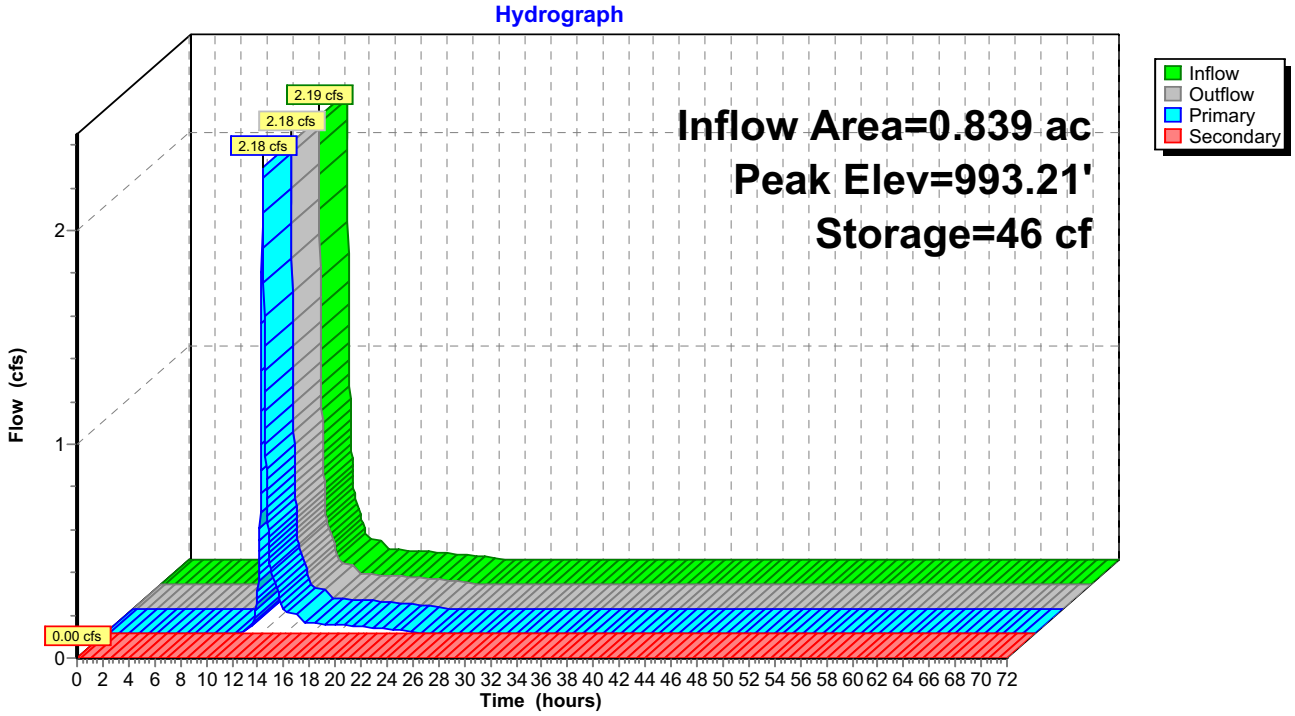
Pond CB_C6: CB_C6



Summary for Pond CB_C7: CB_C7

Inflow Area = 1.347 ac, 13.73% Impervious, Inflow Depth = 2.10" for 10yr-24hr event
Inflow = 3.85 cfs @ 12.21 hrs, Volume= 0.236 af
Outflow = 3.83 cfs @ 12.22 hrs, Volume= 0.236 af, Atten= 1%, Lag= 0.7 min
Primary = 3.83 cfs @ 12.22 hrs, Volume= 0.236 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 993.30' @ 12.22 hrs Surf.Area= 756 sf Storage= 121 cf

Plug-Flow detention time= 0.8 min calculated for 0.236 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (804.6 - 804.2)

Volume	Invert	Avail.Storage	Storage Description
#1	993.00'	1,220 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

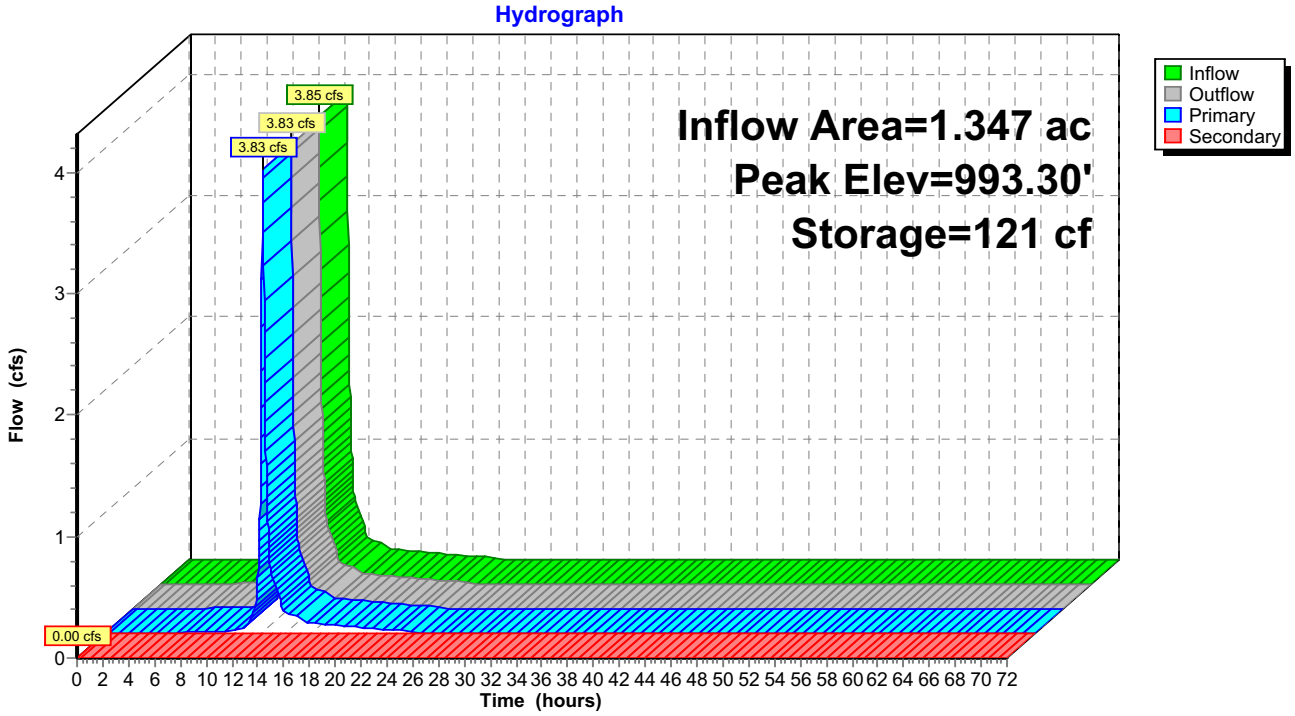
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
993.00	50	0	0
994.00	2,390	1,220	1,220

Device	Routing	Invert	Outlet Devices
#1	Primary	993.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=3.82 cfs @ 12.22 hrs HW=993.30' TW=979.04' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 3.82 cfs @ 1.79 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=993.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_C7: CB_C7



Summary for Pond CB_C8: CB_C8

Inflow Area = 1.927 ac, 22.47% Impervious, Inflow Depth = 2.30" for 10yr-24hr event
Inflow = 5.90 cfs @ 12.21 hrs, Volume= 0.369 af
Outflow = 5.89 cfs @ 12.21 hrs, Volume= 0.369 af, Atten= 0%, Lag= 0.3 min
Primary = 5.89 cfs @ 12.21 hrs, Volume= 0.369 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 991.40' @ 12.21 hrs Surf.Area= 356 sf Storage= 82 cf

Plug-Flow detention time= 0.2 min calculated for 0.369 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (795.5 - 795.2)

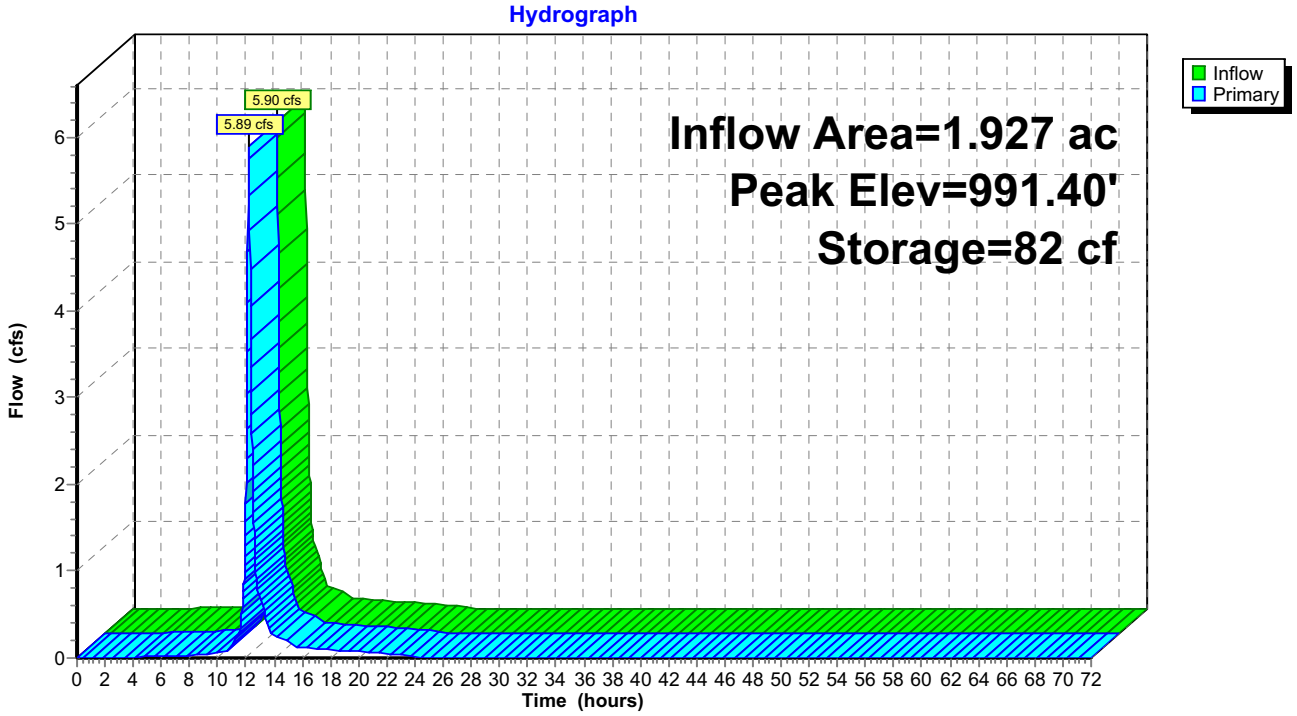
Volume	Invert	Avail.Storage	Storage Description
#1	991.00'	6,743 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
991.00	50	0	0
992.00	812	431	431
994.00	5,500	6,312	6,743

Device	Routing	Invert	Outlet Devices
#1	Primary	991.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.86 cfs @ 12.21 hrs HW=991.40' TW=979.02' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 5.86 cfs @ 2.07 fps)

Pond CB_C8: CB_C8



Summary for Pond CB_C9: CB_C9

Inflow Area = 2.063 ac, 15.90% Impervious, Inflow Depth = 2.15" for 10yr-24hr event
Inflow = 6.11 cfs @ 12.20 hrs, Volume= 0.370 af
Outflow = 6.07 cfs @ 12.21 hrs, Volume= 0.370 af, Atten= 1%, Lag= 0.7 min
Primary = 6.07 cfs @ 12.21 hrs, Volume= 0.370 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 992.41' @ 12.21 hrs Surf.Area= 946 sf Storage= 204 cf

Plug-Flow detention time= 0.4 min calculated for 0.370 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (801.7 - 801.3)

Volume	Invert	Avail.Storage	Storage Description
#1	992.00'	4,470 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
992.00	50	0	0
994.00	4,420	4,470	4,470

Device	Routing	Invert	Outlet Devices
#1	Primary	992.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=6.04 cfs @ 12.21 hrs HW=992.41' TW=979.03' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 6.04 cfs @ 2.09 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=992.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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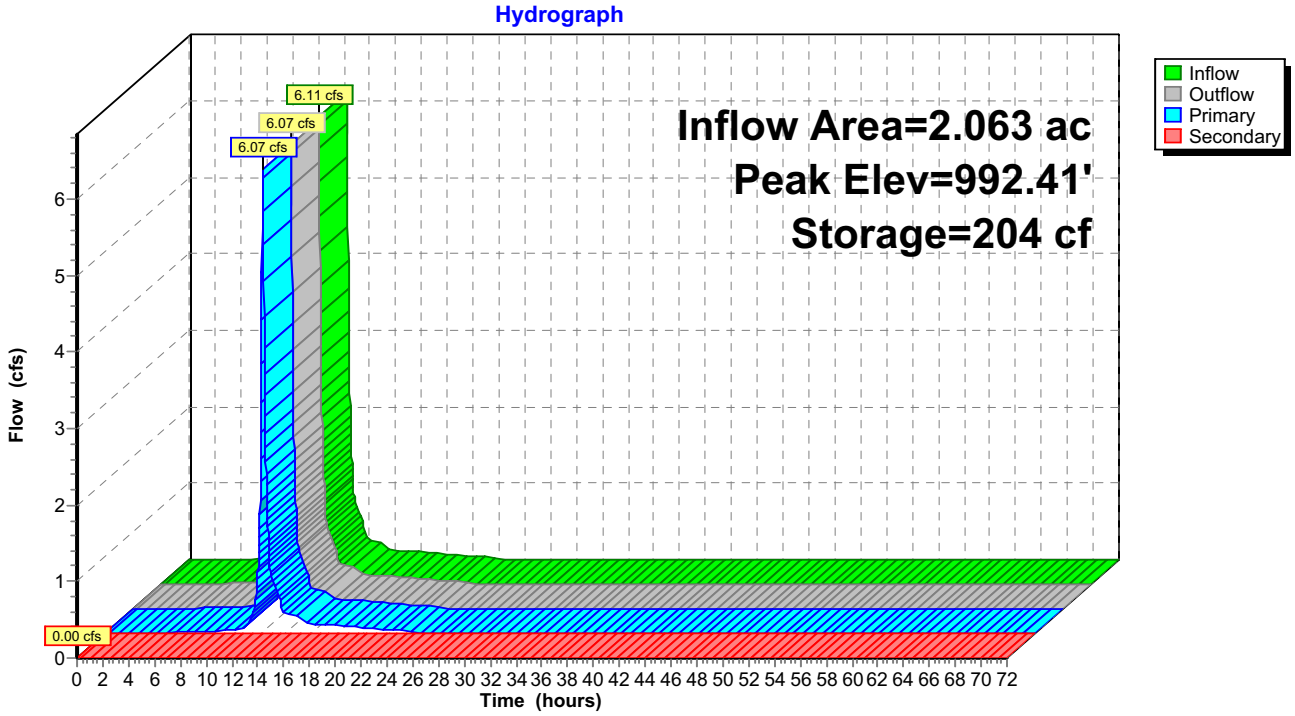
Pond CB_C9: CB_C9



Summary for Pond CB_D6: CB_D6

Inflow Area = 0.376 ac, 3.46% Impervious, Inflow Depth = 1.87" for 10yr-24hr event
Inflow = 1.00 cfs @ 12.20 hrs, Volume= 0.059 af
Outflow = 0.99 cfs @ 12.22 hrs, Volume= 0.059 af, Atten= 1%, Lag= 0.7 min
Primary = 0.99 cfs @ 12.22 hrs, Volume= 0.059 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,000.12' @ 12.22 hrs Surf.Area= 487 sf Storage= 33 cf

Plug-Flow detention time= 0.5 min calculated for 0.059 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (817.2 - 816.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	5,448 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	50	0	0
1,001.00	3,615	1,833	1,833
1,002.00	3,615	3,615	5,448

Device	Routing	Invert	Outlet Devices
#1	Primary	1,000.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,001.00'	**3.0' 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=0.99 cfs @ 12.22 hrs HW=1,000.12' TW=979.03' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.99 cfs @ 1.14 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,000.00' TW=997.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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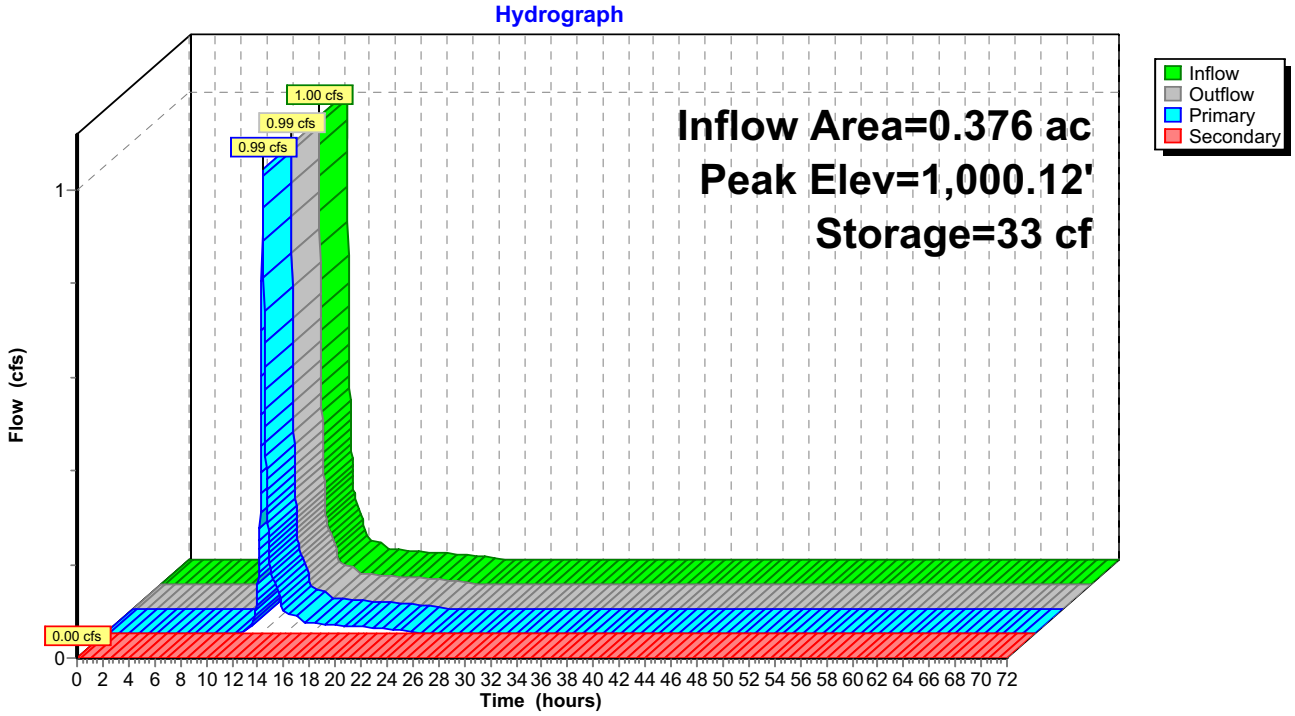
Pond CB_D6: CB_D6



Summary for Pond CB_D7: CB_D7

Inflow Area = 0.586 ac, 17.58% Impervious, Inflow Depth = 2.19" for 10yr-24hr event
Inflow = 1.76 cfs @ 12.20 hrs, Volume= 0.107 af
Outflow = 1.75 cfs @ 12.21 hrs, Volume= 0.107 af, Atten= 1%, Lag= 0.7 min
Primary = 1.75 cfs @ 12.21 hrs, Volume= 0.107 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.18' @ 12.21 hrs Surf.Area= 604 sf Storage= 59 cf

Plug-Flow detention time= 0.5 min calculated for 0.107 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (800.0 - 799.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	4,750 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

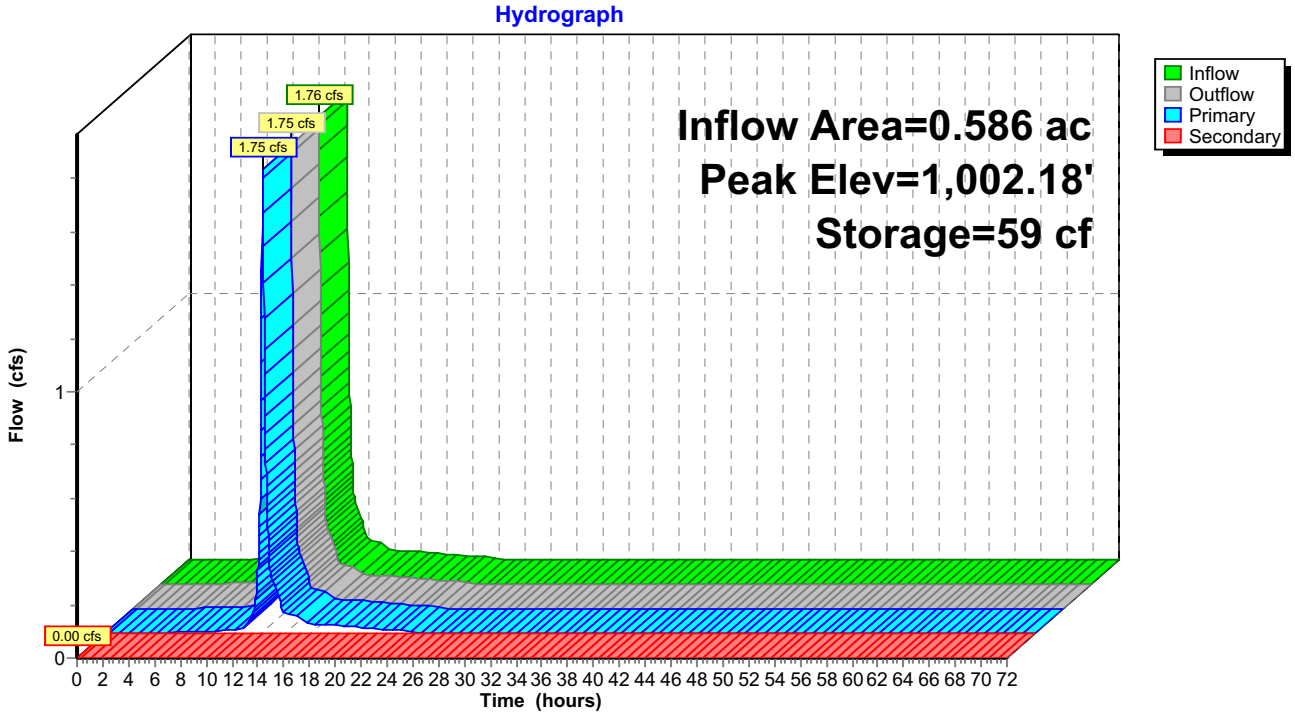
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.00	3,150	1,600	1,600
1,004.00	3,150	3,150	4,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.00'	**3.0' 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=1.74 cfs @ 12.21 hrs HW=1,002.18' TW=979.03' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 1.74 cfs @ 1.38 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,000.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_D7: CB_D7



Summary for Pond CB_D8: CB_D8

Inflow Area = 1.215 ac, 7.98% Impervious, Inflow Depth = 1.98" for 10yr-24hr event
Inflow = 3.36 cfs @ 12.20 hrs, Volume= 0.200 af
Outflow = 3.32 cfs @ 12.22 hrs, Volume= 0.200 af, Atten= 1%, Lag= 1.0 min
Primary = 3.32 cfs @ 12.22 hrs, Volume= 0.200 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.27' @ 12.22 hrs Surf.Area= 1,113 sf Storage= 159 cf

Plug-Flow detention time= 0.6 min calculated for 0.200 af (100% of inflow)
Center-of-Mass det. time= 0.6 min (811.2 - 810.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	13,245 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.50	5,870	4,440	4,440
1,005.00	5,870	8,805	13,245

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.50'	**5.0' 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=3.32 cfs @ 12.22 hrs HW=1,002.27' TW=979.05' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.32 cfs @ 1.71 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,002.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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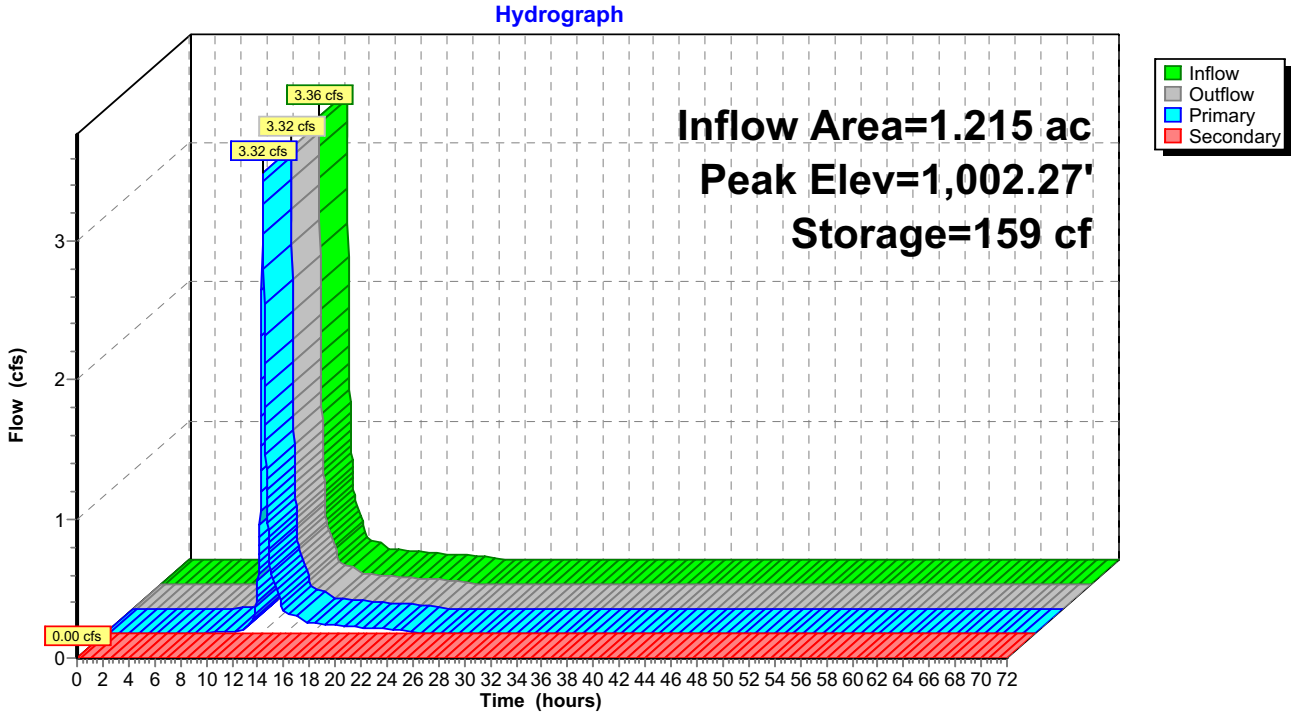
Pond CB_D8: CB_D8



Summary for Pond CB_D9: CB_D9

Inflow Area = 1.254 ac, 16.11% Impervious, Inflow Depth = 2.16" for 10yr-24hr event
Inflow = 3.72 cfs @ 12.20 hrs, Volume= 0.225 af
Outflow = 3.68 cfs @ 12.22 hrs, Volume= 0.225 af, Atten= 1%, Lag= 0.9 min
Primary = 3.68 cfs @ 12.22 hrs, Volume= 0.225 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 997.29' @ 12.22 hrs Surf.Area= 982 sf Storage= 159 cf

Plug-Flow detention time= 0.6 min calculated for 0.225 af (100% of inflow)
Center-of-Mass det. time= 0.6 min (801.7 - 801.1)

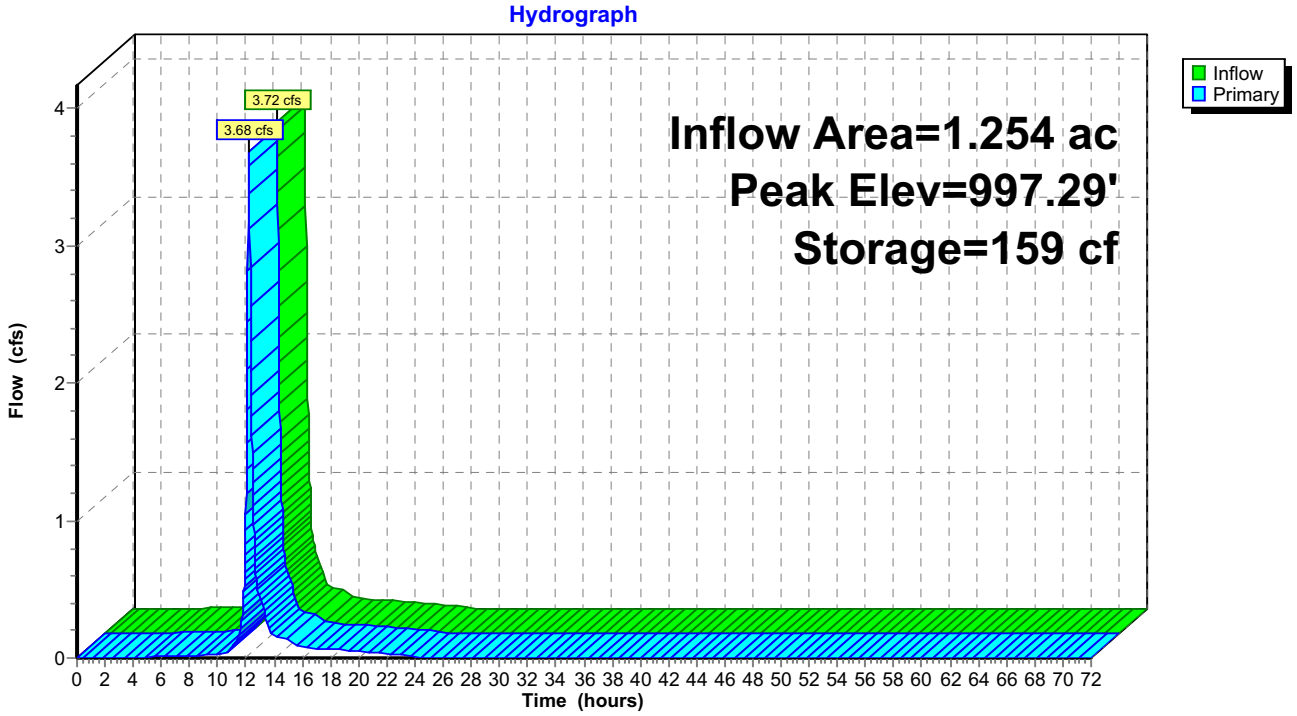
Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	41,500 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	100	0	0
998.00	3,100	1,600	1,600
1,000.00	18,400	21,500	23,100
1,001.00	18,400	18,400	41,500

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	1,000.00'	**5.0' 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=3.67 cfs @ 12.22 hrs HW=997.29' TW=979.04' (Dynamic Tailwater)
└─**1=Grate** (Weir Controls 3.67 cfs @ 1.77 fps)
└─**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_D9: CB_D9



Summary for Pond CB_E13: CB_E13

Inflow Area = 0.980 ac, 25.31% Impervious, Inflow Depth = 2.36" for 10yr-24hr event
Inflow = 3.13 cfs @ 12.20 hrs, Volume= 0.193 af
Outflow = 3.13 cfs @ 12.20 hrs, Volume= 0.193 af, Atten= 0%, Lag= 0.2 min
Primary = 3.13 cfs @ 12.20 hrs, Volume= 0.193 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,004.26' @ 12.20 hrs Surf.Area= 184 sf Storage= 31 cf

Plug-Flow detention time= 0.2 min calculated for 0.193 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (792.3 - 792.1)

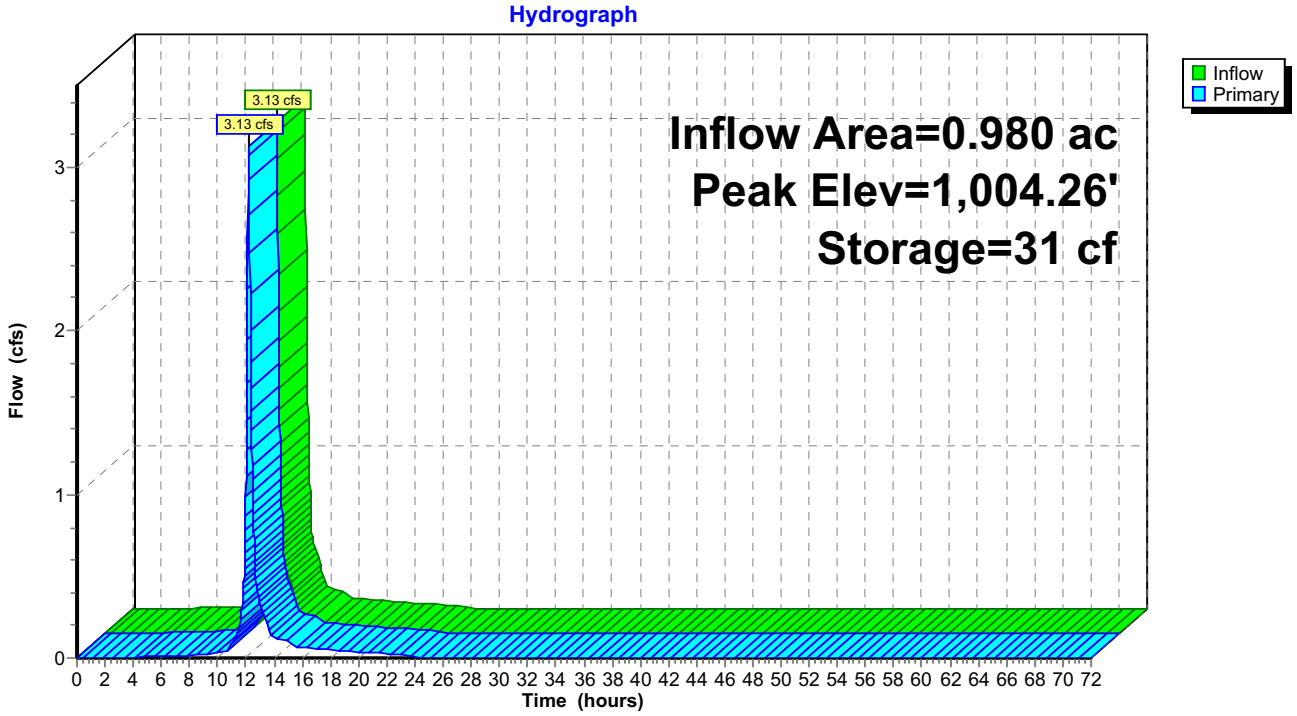
Volume	Invert	Avail.Storage	Storage Description
#1	1,004.00'	1,120 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,004.00	50	0	0
1,006.00	1,070	1,120	1,120

Device	Routing	Invert	Outlet Devices
#1	Primary	1,004.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.12 cfs @ 12.20 hrs HW=1,004.26' TW=978.99' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.12 cfs @ 1.68 fps)

Pond CB_E13: CB_E13



Summary for Pond CB_E15: CB_E15

Inflow Area = 1.926 ac, 26.90% Impervious, Inflow Depth = 2.40" for 10yr-24hr event
Inflow = 6.23 cfs @ 12.20 hrs, Volume= 0.385 af
Outflow = 6.22 cfs @ 12.20 hrs, Volume= 0.385 af, Atten= 0%, Lag= 0.3 min
Primary = 6.22 cfs @ 12.20 hrs, Volume= 0.385 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 992.42' @ 12.20 hrs Surf.Area= 381 sf Storage= 90 cf

Plug-Flow detention time= 0.2 min calculated for 0.385 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (790.9 - 790.7)

Volume	Invert	Avail.Storage	Storage Description
#1	992.00'	1,690 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
992.00	50	0	0
994.00	1,640	1,690	1,690

Device	Routing	Invert	Outlet Devices
#1	Primary	992.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=6.20 cfs @ 12.20 hrs HW=992.42' TW=979.00' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 6.20 cfs @ 2.11 fps)

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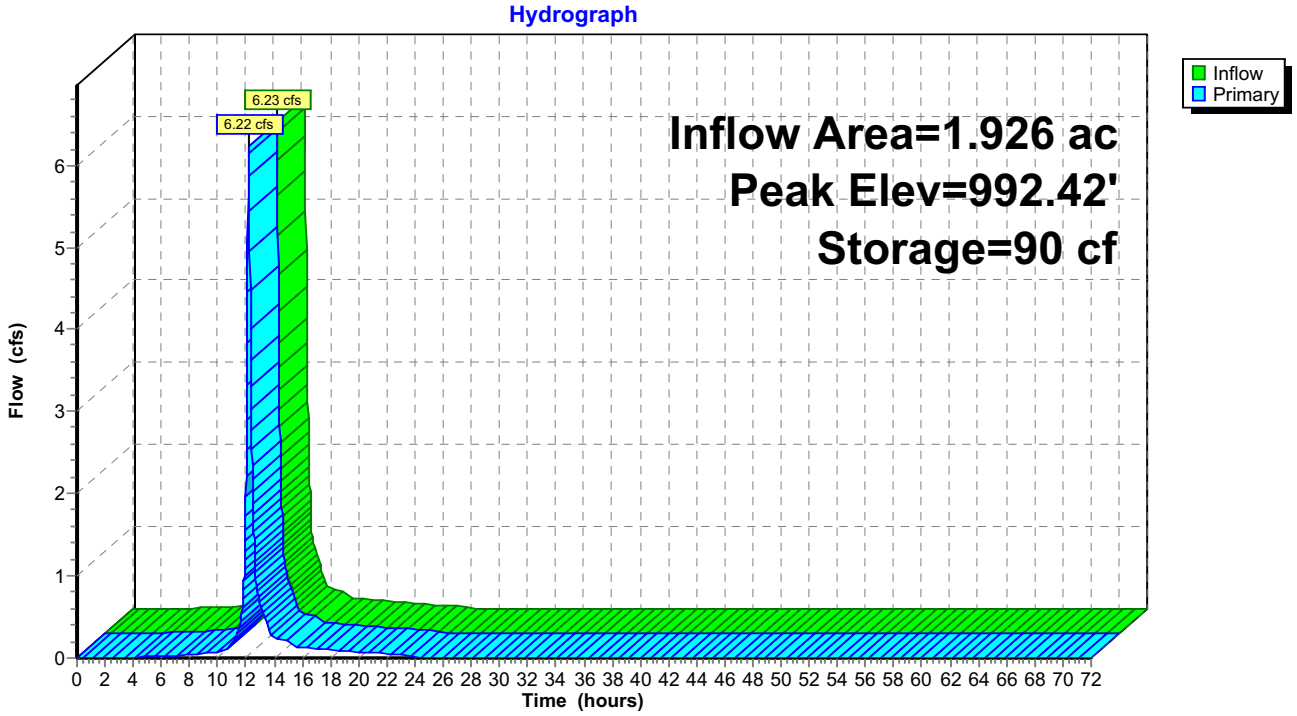
Pond CB_E15: CB_E15



Summary for Pond CB_E16: CB_E16

Inflow Area = 1.374 ac, 25.84% Impervious, Inflow Depth = 2.38" for 10yr-24hr event
Inflow = 4.41 cfs @ 12.20 hrs, Volume= 0.272 af
Outflow = 4.38 cfs @ 12.21 hrs, Volume= 0.272 af, Atten= 1%, Lag= 0.6 min
Primary = 4.38 cfs @ 12.21 hrs, Volume= 0.272 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.33' @ 12.21 hrs Surf.Area= 766 sf Storage= 135 cf

Plug-Flow detention time= 0.4 min calculated for 0.272 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (792.0 - 791.6)

Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	4,440 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	4,390	4,440	4,440

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=4.36 cfs @ 12.21 hrs HW=996.33' TW=979.02' (Dynamic Tailwater)
↳**1=Grate** (Weir Controls 4.36 cfs @ 1.88 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=996.00' TW=992.00' (Dynamic Tailwater)
↳**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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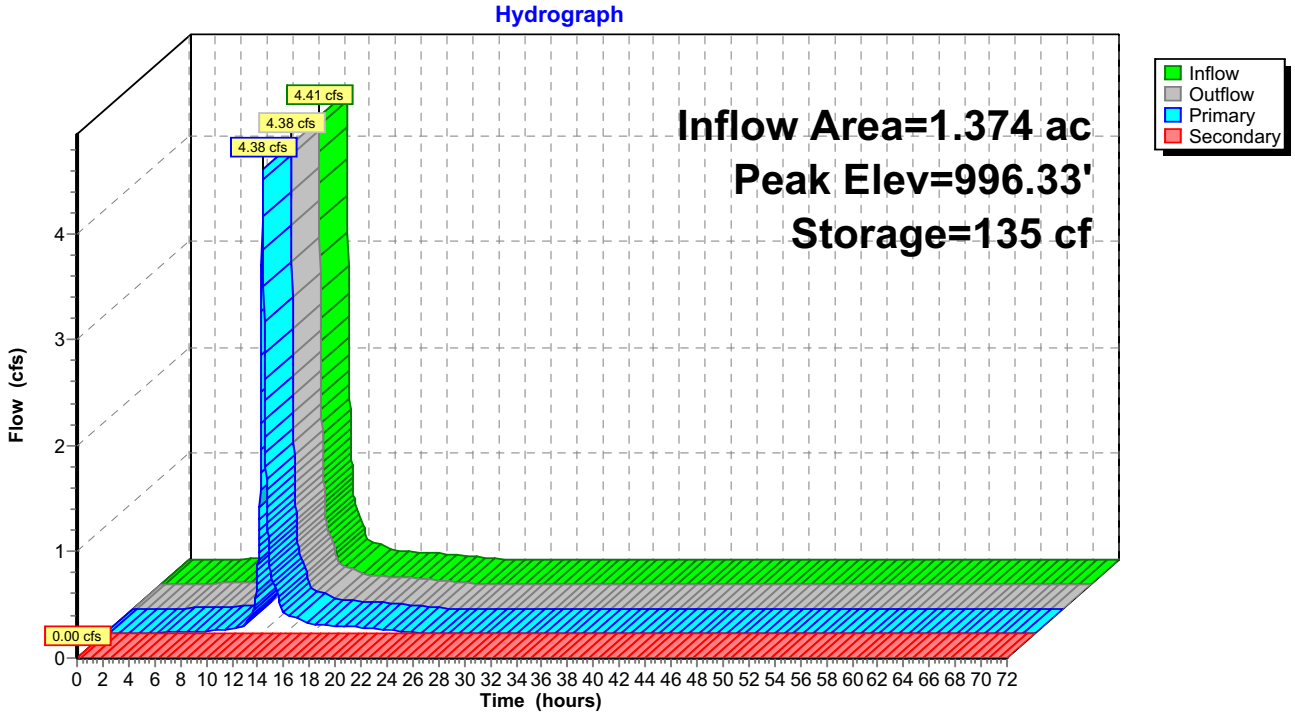
Pond CB_E16: CB_E16



Summary for Pond CB_E17: CB_E17

Inflow Area = 0.991 ac, 20.48% Impervious, Inflow Depth = 2.26" for 10yr-24hr event
Inflow = 3.05 cfs @ 12.20 hrs, Volume= 0.186 af
Outflow = 3.03 cfs @ 12.21 hrs, Volume= 0.186 af, Atten= 1%, Lag= 0.7 min
Primary = 3.03 cfs @ 12.21 hrs, Volume= 0.186 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.26' @ 12.21 hrs Surf.Area= 743 sf Storage= 170 cf

Plug-Flow detention time= 2.5 min calculated for 0.186 af (100% of inflow)
Center-of-Mass det. time= 2.1 min (798.7 - 796.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,001.99'	2,228 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,001.99	50	0	0
1,002.00	550	3	3
1,003.00	1,300	925	928
1,004.00	1,300	1,300	2,228

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.00'	**5.0' 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=3.01 cfs @ 12.21 hrs HW=1,002.26' TW=979.03' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 3.01 cfs @ 1.66 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,001.99' TW=996.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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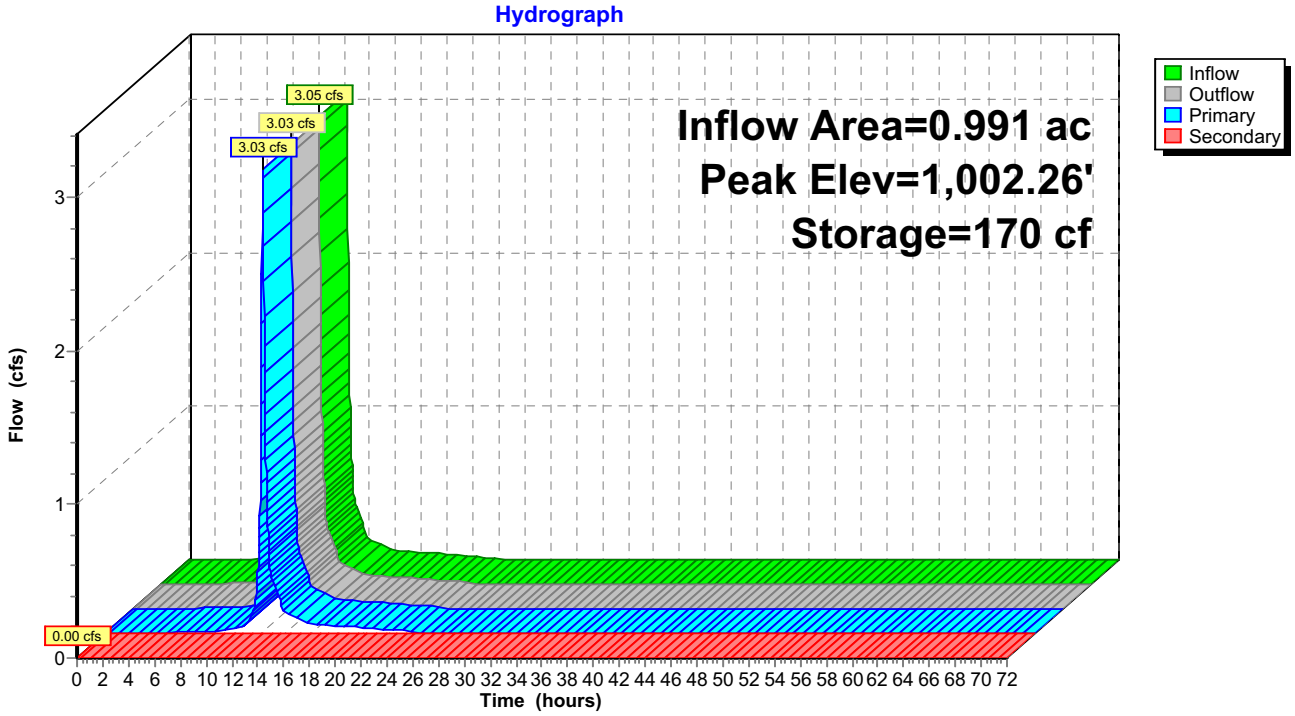
Pond CB_E17: CB_E17



Summary for Pond CB_E18: CB_E18

Inflow Area = 1.734 ac, 9.86% Impervious, Inflow Depth = 2.02" for 10yr-24hr event
Inflow = 4.88 cfs @ 12.20 hrs, Volume= 0.292 af
Outflow = 4.85 cfs @ 12.21 hrs, Volume= 0.291 af, Atten= 1%, Lag= 0.7 min
Primary = 4.85 cfs @ 12.21 hrs, Volume= 0.291 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,008.35' @ 12.21 hrs Surf.Area= 842 sf Storage= 342 cf

Plug-Flow detention time= 6.4 min calculated for 0.291 af (100% of inflow)
Center-of-Mass det. time= 4.1 min (812.3 - 808.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,007.90'	1,729 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,007.90	50	0	0
1,008.00	842	45	45
1,009.00	842	842	887
1,010.00	842	842	1,729

Device	Routing	Invert	Outlet Devices
#1	Primary	1,008.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,009.00'	**5.0' 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=4.83 cfs @ 12.21 hrs HW=1,008.35' TW=979.03' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 4.83 cfs @ 1.94 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,007.90' TW=1,001.99' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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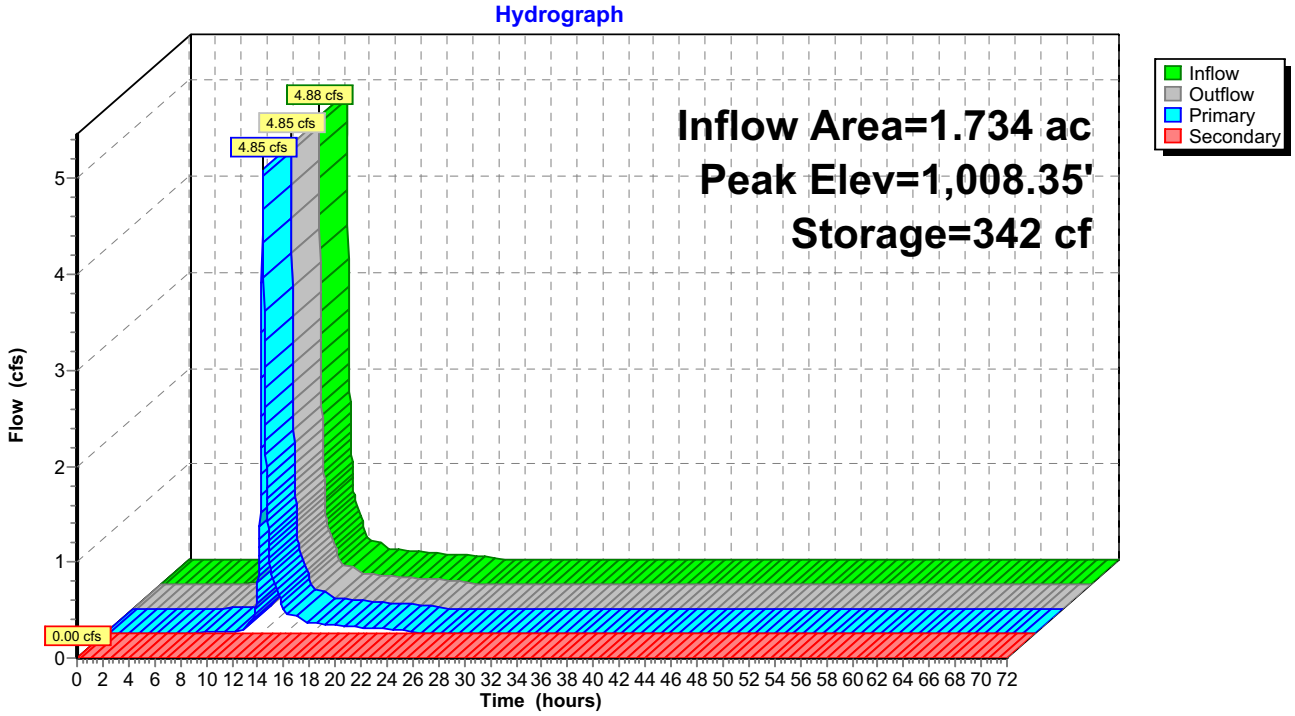
Pond CB_E18: CB_E18



Summary for Pond CB_F5: CB_F5

Inflow Area = 1.224 ac, 21.24% Impervious, Inflow Depth = 3.49" for 10yr-24hr event
Inflow = 5.07 cfs @ 12.20 hrs, Volume= 0.356 af
Outflow = 5.03 cfs @ 12.21 hrs, Volume= 0.356 af, Atten= 1%, Lag= 0.7 min
Primary = 5.03 cfs @ 12.21 hrs, Volume= 0.356 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 983.36' @ 12.21 hrs Surf.Area= 900 sf Storage= 172 cf

Plug-Flow detention time= 0.4 min calculated for 0.356 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (804.5 - 804.1)

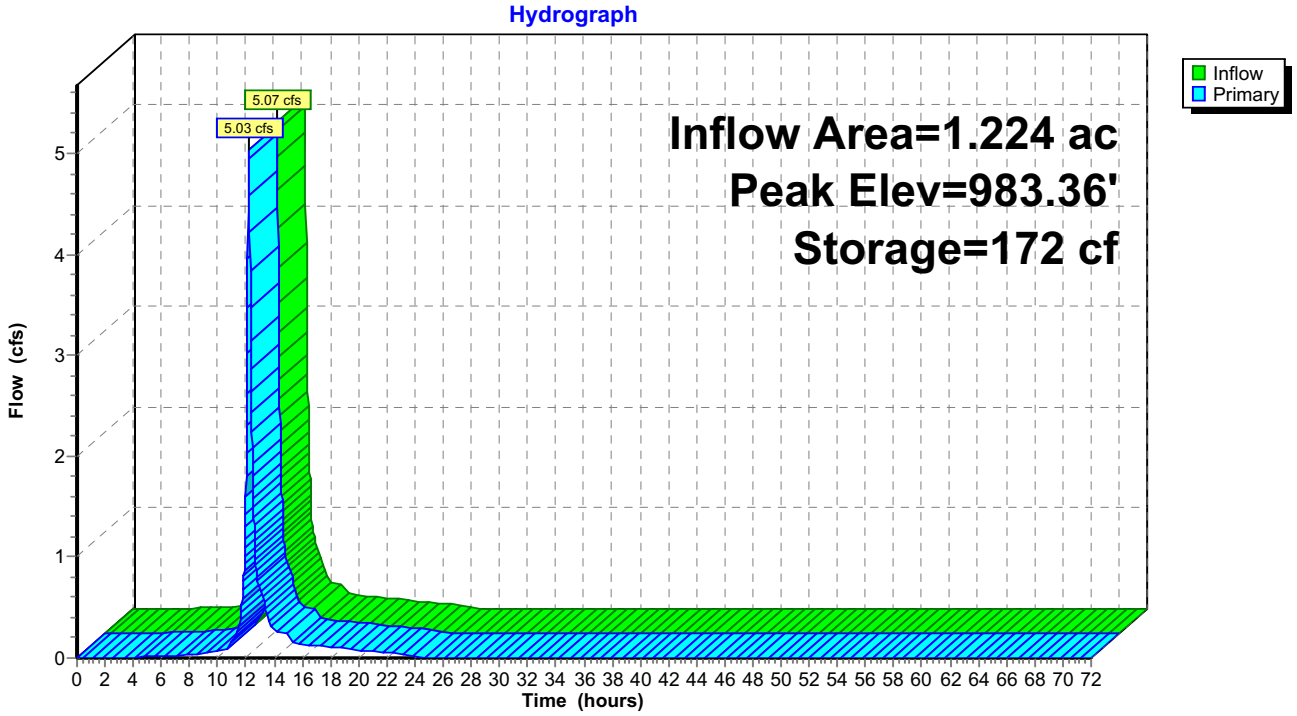
Volume	Invert	Avail.Storage	Storage Description
#1	983.00'	13,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
983.00	50	0	0
984.00	2,400	1,225	1,225
986.00	9,900	12,300	13,525

Device	Routing	Invert	Outlet Devices
#1	Primary	983.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.01 cfs @ 12.21 hrs HW=983.36' TW=969.19' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 5.01 cfs @ 1.96 fps)

Pond CB_F5: CB_F5



Summary for Pond CB_F6: CB_F6

Inflow Area = 0.921 ac, 21.06% Impervious, Inflow Depth = 2.27" for 10yr-24hr event
Inflow = 2.85 cfs @ 12.20 hrs, Volume= 0.174 af
Outflow = 2.85 cfs @ 12.20 hrs, Volume= 0.174 af, Atten= 0%, Lag= 0.1 min
Primary = 1.57 cfs @ 12.20 hrs, Volume= 0.050 af
Secondary = 1.28 cfs @ 12.20 hrs, Volume= 0.124 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 986.17' @ 12.20 hrs Surf.Area= 96 sf Storage= 12 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 0.0 min (796.1 - 796.0)

Volume	Invert	Avail.Storage	Storage Description
#1	986.00'	650 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
986.00	50	0	0
988.00	600	650	650

Device	Routing	Invert	Outlet Devices
#1	Primary	986.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	985.95'	**5.0' 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=1.56 cfs @ 12.20 hrs HW=986.17' TW=969.13' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 1.56 cfs @ 1.33 fps)

Secondary OutFlow Max=1.28 cfs @ 12.20 hrs HW=986.17' TW=983.36' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Weir Controls 1.28 cfs @ 1.18 fps)

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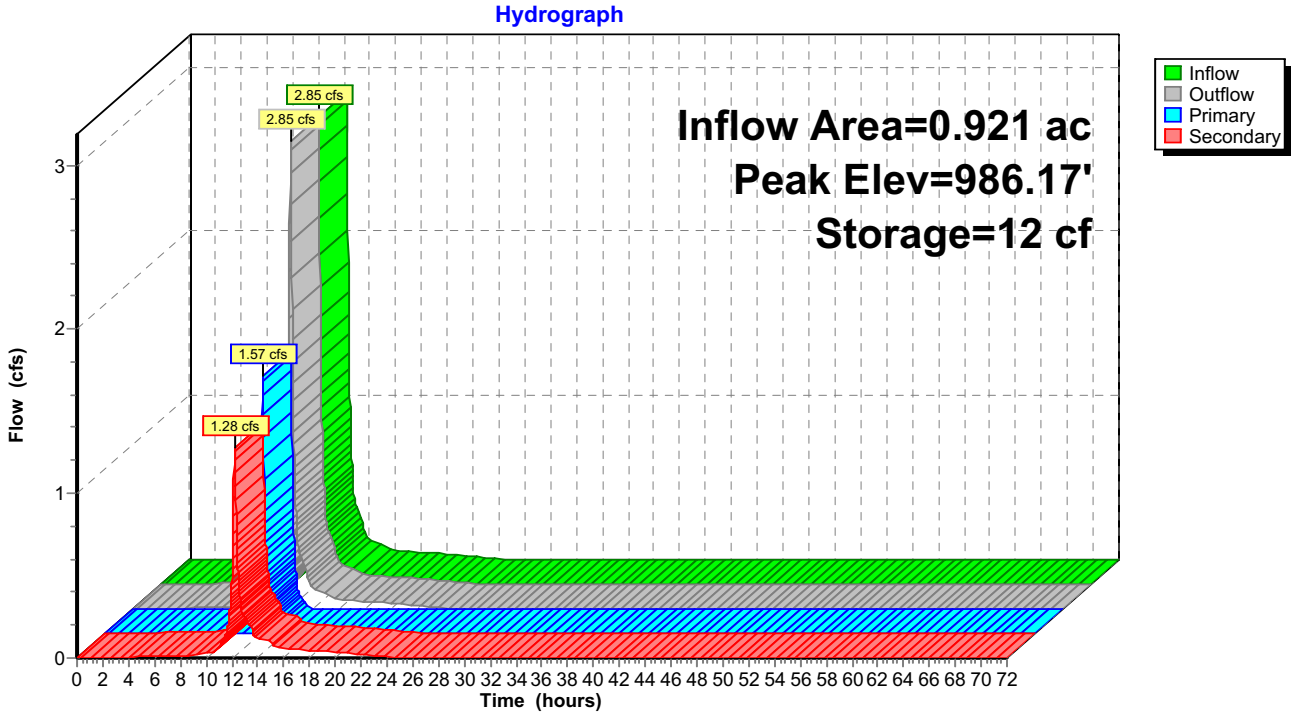
Pond CB_F6: CB_F6



Summary for Pond CB_F7: CB_F7

Inflow Area = 0.667 ac, 11.69% Impervious, Inflow Depth = 2.06" for 10yr-24hr event
Inflow = 1.91 cfs @ 12.20 hrs, Volume= 0.114 af
Outflow = 1.90 cfs @ 12.21 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.3 min
Primary = 1.90 cfs @ 12.21 hrs, Volume= 0.114 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 986.69' @ 12.21 hrs Surf.Area= 267 sf Storage= 30 cf

Plug-Flow detention time= 0.3 min calculated for 0.114 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (806.3 - 806.0)

Volume	Invert	Avail.Storage	Storage Description
#1	986.50'	1,365 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
986.50	50	0	0
988.00	1,770	1,365	1,365

Device	Routing	Invert	Outlet Devices
#1	Primary	986.50'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	987.90'	**5.0' 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=1.90 cfs @ 12.21 hrs HW=986.69' TW=969.16' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.90 cfs @ 1.42 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=986.50' TW=986.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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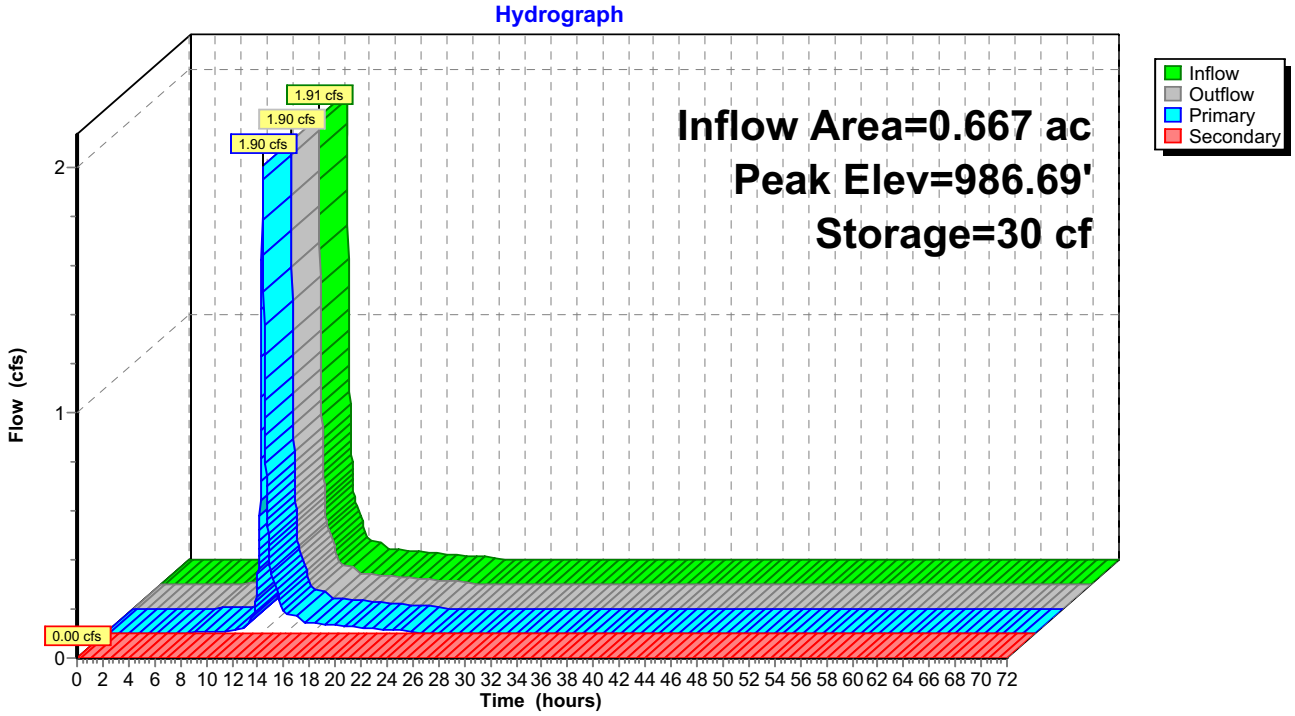
Pond CB_F7: CB_F7



Summary for Pond CB_F8: CB_F8

Inflow Area = 1.906 ac, 16.00% Impervious, Inflow Depth = 2.16" for 10yr-24hr event
Inflow = 5.65 cfs @ 12.20 hrs, Volume= 0.342 af
Outflow = 5.63 cfs @ 12.21 hrs, Volume= 0.342 af, Atten= 0%, Lag= 0.5 min
Primary = 5.63 cfs @ 12.21 hrs, Volume= 0.342 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 989.39' @ 12.21 hrs Surf.Area= 655 sf Storage= 137 cf

Plug-Flow detention time= 0.3 min calculated for 0.342 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (801.5 - 801.2)

Volume	Invert	Avail.Storage	Storage Description
#1	989.00'	825 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
989.00	50	0	0
990.00	1,600	825	825

Device	Routing	Invert	Outlet Devices
#1	Primary	989.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.90'	**5.0' 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=5.60 cfs @ 12.21 hrs HW=989.39' TW=969.17' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 5.60 cfs @ 2.04 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=989.00' TW=986.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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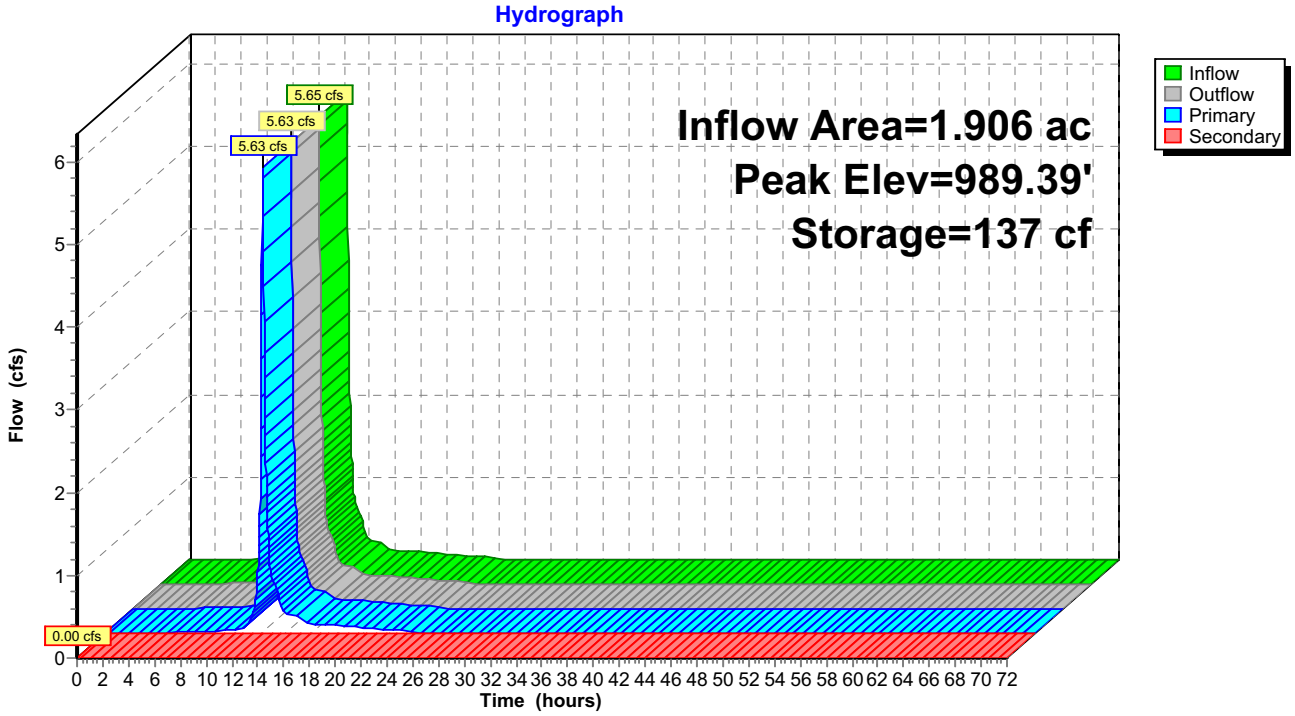
Pond CB_F8: CB_F8



Summary for Pond CB_H5: CB_H5

Inflow Area = 2.168 ac, 27.21% Impervious, Inflow Depth = 2.20" for 10yr-24hr event
Inflow = 6.31 cfs @ 12.20 hrs, Volume= 0.398 af
Outflow = 6.26 cfs @ 12.21 hrs, Volume= 0.398 af, Atten= 1%, Lag= 0.8 min
Primary = 6.26 cfs @ 12.21 hrs, Volume= 0.398 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 972.42' @ 12.21 hrs Surf.Area= 1,018 sf Storage= 223 cf

Plug-Flow detention time= 0.4 min calculated for 0.398 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (791.0 - 790.5)

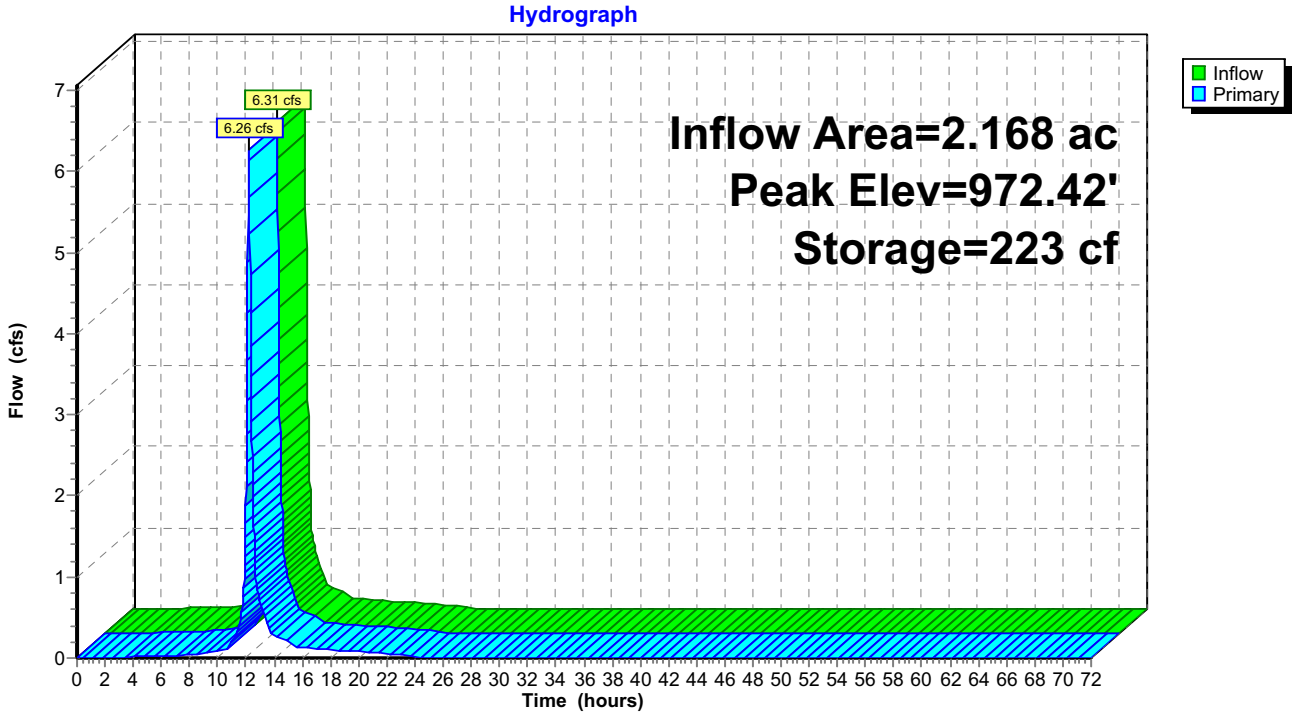
Volume	Invert	Avail.Storage	Storage Description
#1	972.00'	30,964 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
972.00	50	0	0
974.00	4,677	4,727	4,727
976.00	21,560	26,237	30,964

Device	Routing	Invert	Outlet Devices
#1	Primary	972.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=6.23 cfs @ 12.21 hrs HW=972.42' TW=968.06' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 6.23 cfs @ 2.11 fps)

Pond CB_H5: CB_H5



Summary for Pond CB_H6: CB_H6

Inflow Area = 1.008 ac, 19.54% Impervious, Inflow Depth = 1.70" for 10yr-24hr event
Inflow = 2.20 cfs @ 12.20 hrs, Volume= 0.143 af
Outflow = 2.16 cfs @ 12.22 hrs, Volume= 0.143 af, Atten= 2%, Lag= 1.1 min
Primary = 2.16 cfs @ 12.22 hrs, Volume= 0.143 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 973.21' @ 12.22 hrs Surf.Area= 1,091 sf Storage= 118 cf

Plug-Flow detention time= 0.7 min calculated for 0.143 af (100% of inflow)
Center-of-Mass det. time= 0.7 min (800.9 - 800.3)

Volume	Invert	Avail.Storage	Storage Description
#1	973.00'	35,125 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

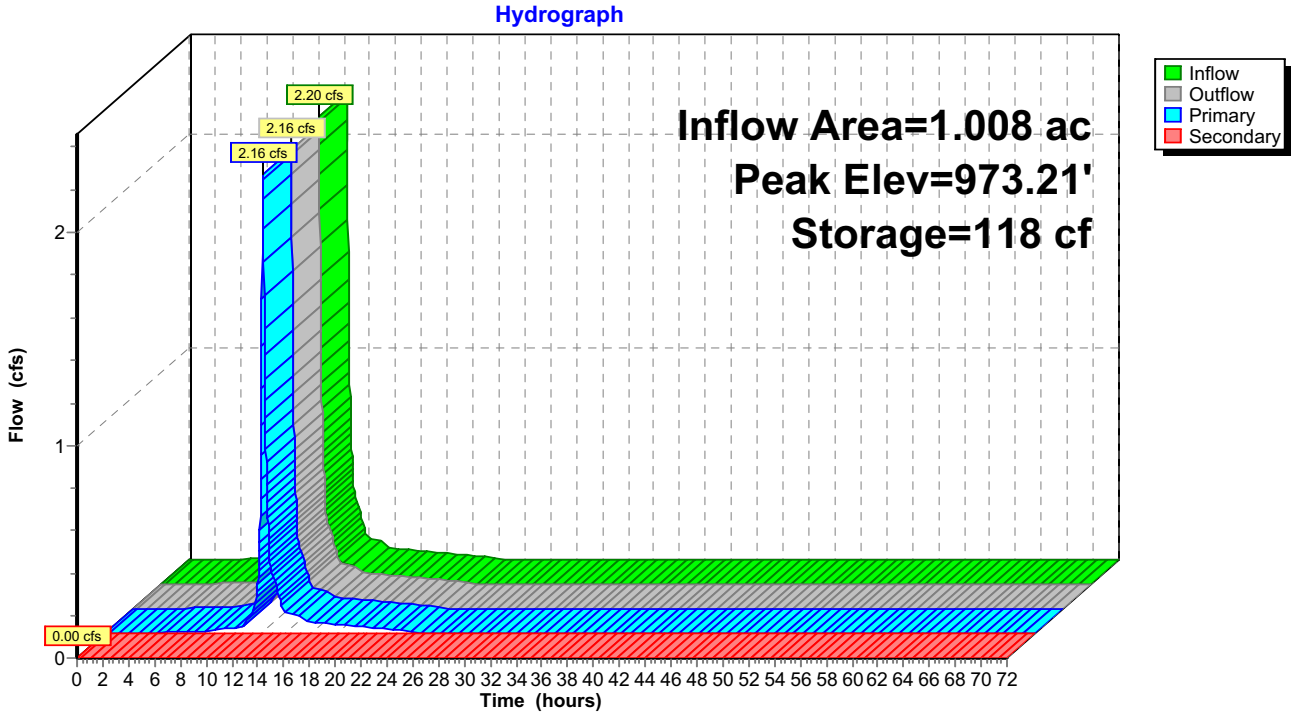
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
973.00	50	0	0
974.00	5,100	2,575	2,575
975.00	20,000	12,550	15,125
976.00	20,000	20,000	35,125

Device	Routing	Invert	Outlet Devices
#1	Primary	973.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	975.00'	**5.0' 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=2.16 cfs @ 12.22 hrs HW=973.21' TW=968.09' (Dynamic Tailwater)
↑**1=Grate** (Weir Controls 2.16 cfs @ 1.48 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.00' TW=967.50' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_H6: CB_H6



Summary for Pond CB_H7: CB_H7

Inflow Area = 1.176 ac, 19.64% Impervious, Inflow Depth = 1.81" for 10yr-24hr event
Inflow = 2.78 cfs @ 12.20 hrs, Volume= 0.178 af
Outflow = 2.59 cfs @ 12.24 hrs, Volume= 0.177 af, Atten= 7%, Lag= 2.4 min
Primary = 2.59 cfs @ 12.24 hrs, Volume= 0.177 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 974.23' @ 12.24 hrs Surf.Area= 2,430 sf Storage= 577 cf

Plug-Flow detention time= 10.0 min calculated for 0.177 af (100% of inflow)
Center-of-Mass det. time= 9.1 min (808.5 - 799.4)

Volume	Invert	Avail.Storage	Storage Description
#1	973.99'	4,872 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

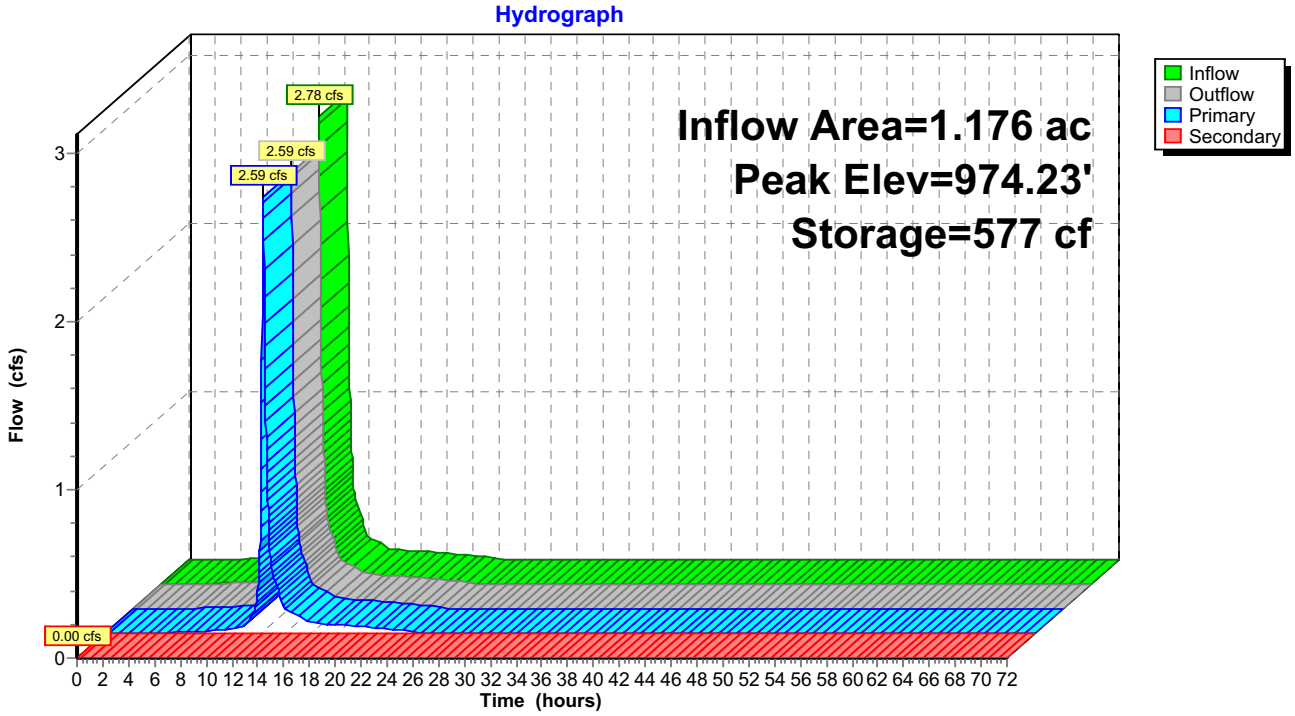
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
973.99	50	0	0
974.00	2,430	12	12
976.00	2,430	4,860	4,872

Device	Routing	Invert	Outlet Devices
#1	Primary	974.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	975.00'	**5.0' 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=2.59 cfs @ 12.24 hrs HW=974.23' TW=968.15' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.59 cfs @ 1.58 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.99' TW=973.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_H7: CB_H7



Summary for Pond CB_I7: CB_I7

Inflow Area = 1.268 ac, 17.51% Impervious, Inflow Depth = 2.19" for 10yr-24hr event
Inflow = 3.81 cfs @ 12.20 hrs, Volume= 0.231 af
Outflow = 3.79 cfs @ 12.21 hrs, Volume= 0.231 af, Atten= 0%, Lag= 0.5 min
Primary = 3.79 cfs @ 12.21 hrs, Volume= 0.231 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 985.30' @ 12.21 hrs Surf.Area= 604 sf Storage= 98 cf

Plug-Flow detention time= 0.4 min calculated for 0.231 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (800.0 - 799.6)

Volume	Invert	Avail.Storage	Storage Description
#1	985.00'	11,205 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

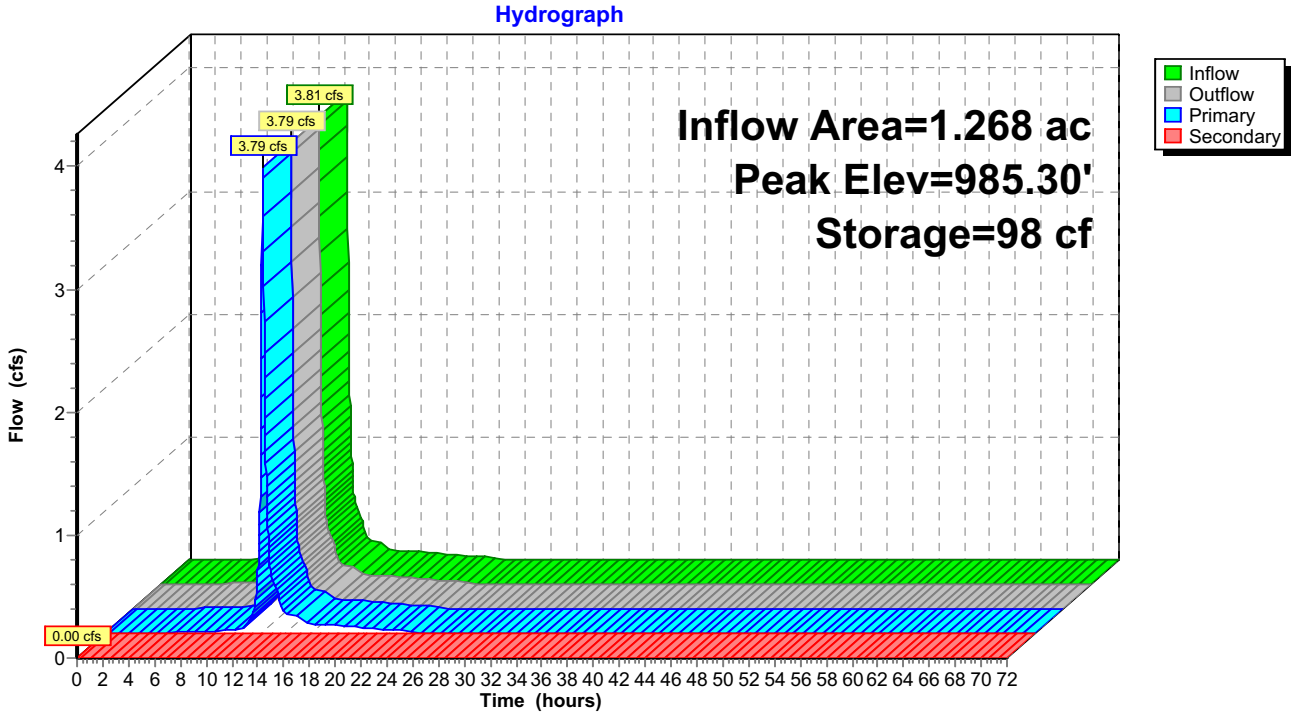
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
985.00	50	0	0
986.00	1,900	975	975
988.00	8,330	10,230	11,205

Device	Routing	Invert	Outlet Devices
#1	Primary	985.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	987.90'	**5.0' 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=3.77 cfs @ 12.21 hrs HW=985.30' TW=970.13' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.77 cfs @ 1.79 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=985.00' TW=0.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_I7: CB_I7



Summary for Pond CB_I8: CB_I8

Inflow Area = 1.173 ac, 25.23% Impervious, Inflow Depth = 2.36" for 10yr-24hr event
Inflow = 3.75 cfs @ 12.20 hrs, Volume= 0.231 af
Outflow = 3.74 cfs @ 12.20 hrs, Volume= 0.231 af, Atten= 0%, Lag= 0.2 min
Primary = 3.74 cfs @ 12.20 hrs, Volume= 0.231 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 987.30' @ 12.20 hrs Surf.Area= 282 sf Storage= 49 cf

Plug-Flow detention time= 0.2 min calculated for 0.231 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (792.4 - 792.1)

Volume	Invert	Avail.Storage	Storage Description
#1	987.00'	3,105 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

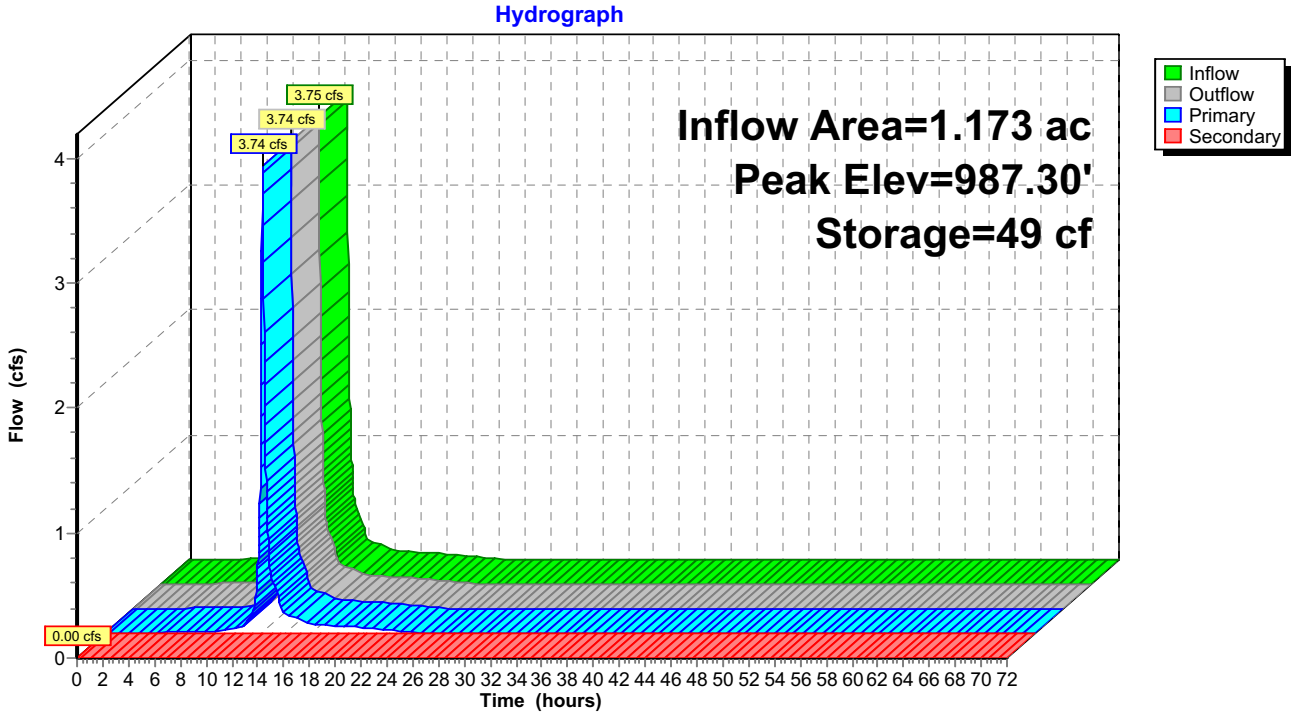
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
987.00	50	0	0
988.00	830	440	440
989.00	1,500	1,165	1,605
990.00	1,500	1,500	3,105

Device	Routing	Invert	Outlet Devices
#1	Primary	987.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.00'	**5.0' 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=3.73 cfs @ 12.20 hrs HW=987.30' TW=970.11' (Dynamic Tailwater)
↑**1=Grate** (Weir Controls 3.73 cfs @ 1.78 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=987.00' TW=985.00' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_I8: CB_I8



Summary for Pond CB_I9: CB_I9

Inflow Area = 0.256 ac, 27.73% Impervious, Inflow Depth = 2.42" for 10yr-24hr event
Inflow = 0.83 cfs @ 12.20 hrs, Volume= 0.052 af
Outflow = 0.83 cfs @ 12.20 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.2 min
Primary = 0.83 cfs @ 12.20 hrs, Volume= 0.052 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.11' @ 12.20 hrs Surf.Area= 105 sf Storage= 8 cf

Plug-Flow detention time= 0.3 min calculated for 0.052 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (790.2 - 789.9)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	1,818 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
978.50	300	88	88
980.00	300	450	538
984.00	340	1,280	1,818

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	978.50'	**3.0' 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=0.83 cfs @ 12.20 hrs HW=978.11' TW=970.93' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 0.83 cfs @ 1.08 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=969.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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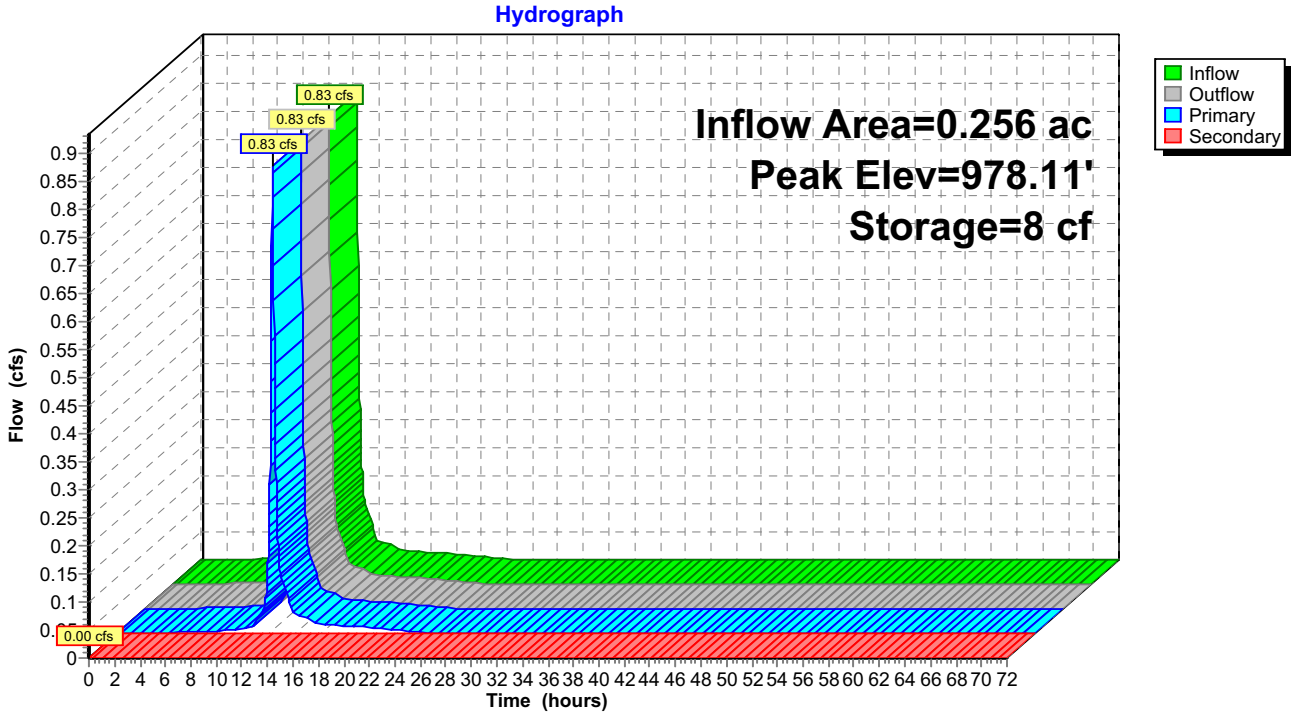
Pond CB_I9: CB_I9



Summary for Pond CB_J3: CB_J3

Inflow Area = 1.496 ac, 20.32% Impervious, Inflow Depth = 2.25" for 10yr-24hr event
Inflow = 4.60 cfs @ 12.20 hrs, Volume= 0.281 af
Outflow = 4.59 cfs @ 12.21 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.4 min
Primary = 4.59 cfs @ 12.21 hrs, Volume= 0.281 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 991.34' @ 12.21 hrs Surf.Area= 475 sf Storage= 89 cf

Plug-Flow detention time= 0.3 min calculated for 0.281 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (797.0 - 796.7)

Volume	Invert	Avail.Storage	Storage Description
#1	991.00'	4,575 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
991.00	50	0	0
992.00	1,300	675	675
993.00	1,300	1,300	1,975
995.00	1,300	2,600	4,575

Device	Routing	Invert	Outlet Devices
#1	Primary	991.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	992.00'	**5.0' 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=4.56 cfs @ 12.21 hrs HW=991.34' TW=974.18' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 4.56 cfs @ 1.90 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=991.00' TW=973.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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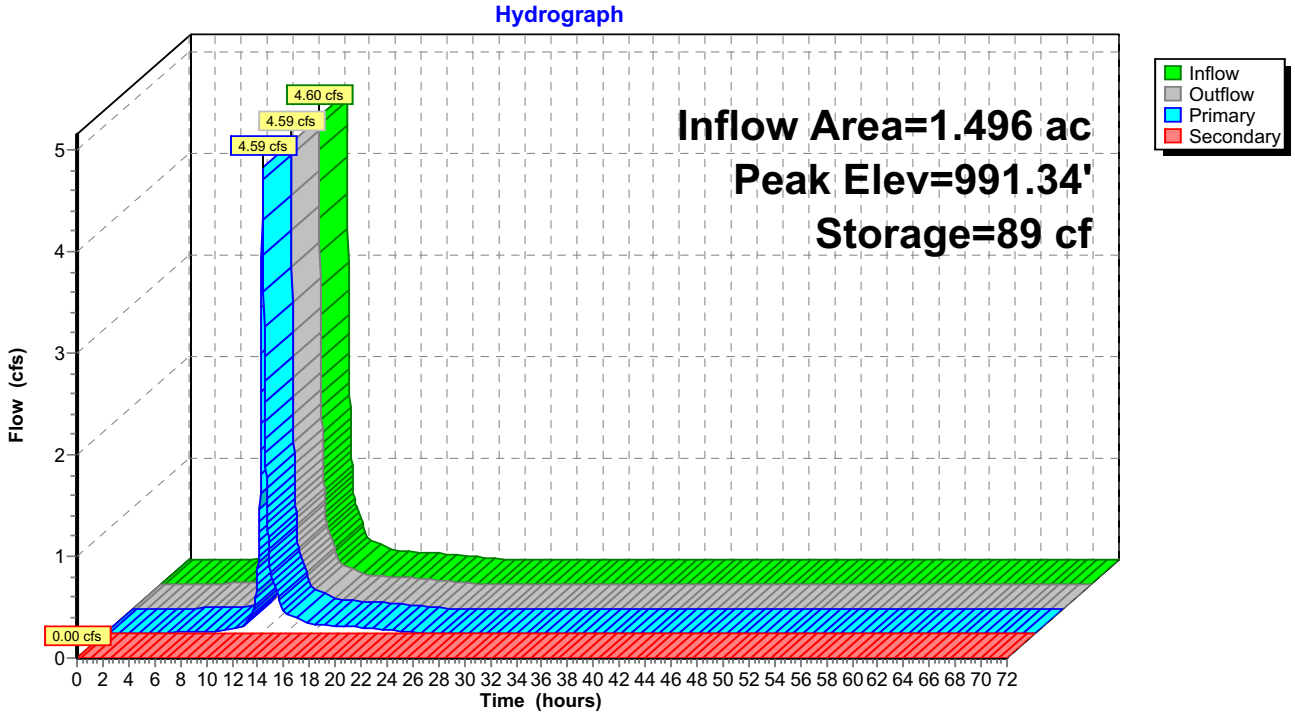
Pond CB_J3: CB_J3



Summary for Pond CB_J4: CB_J4

Inflow Area = 0.310 ac, 0.00% Impervious, Inflow Depth = 1.80" for 10yr-24hr event
Inflow = 0.80 cfs @ 12.20 hrs, Volume= 0.046 af
Outflow = 0.80 cfs @ 12.21 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.3 min
Primary = 0.80 cfs @ 12.21 hrs, Volume= 0.046 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.11' @ 12.21 hrs Surf.Area= 175 sf Storage= 12 cf

Plug-Flow detention time= 0.3 min calculated for 0.046 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (822.1 - 821.8)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	4,130 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
995.50	1,819	1,402	1,402
997.00	1,819	2,729	4,130

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	995.50'	**5.0' 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=0.79 cfs @ 12.21 hrs HW=994.11' TW=974.18' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.79 cfs @ 1.06 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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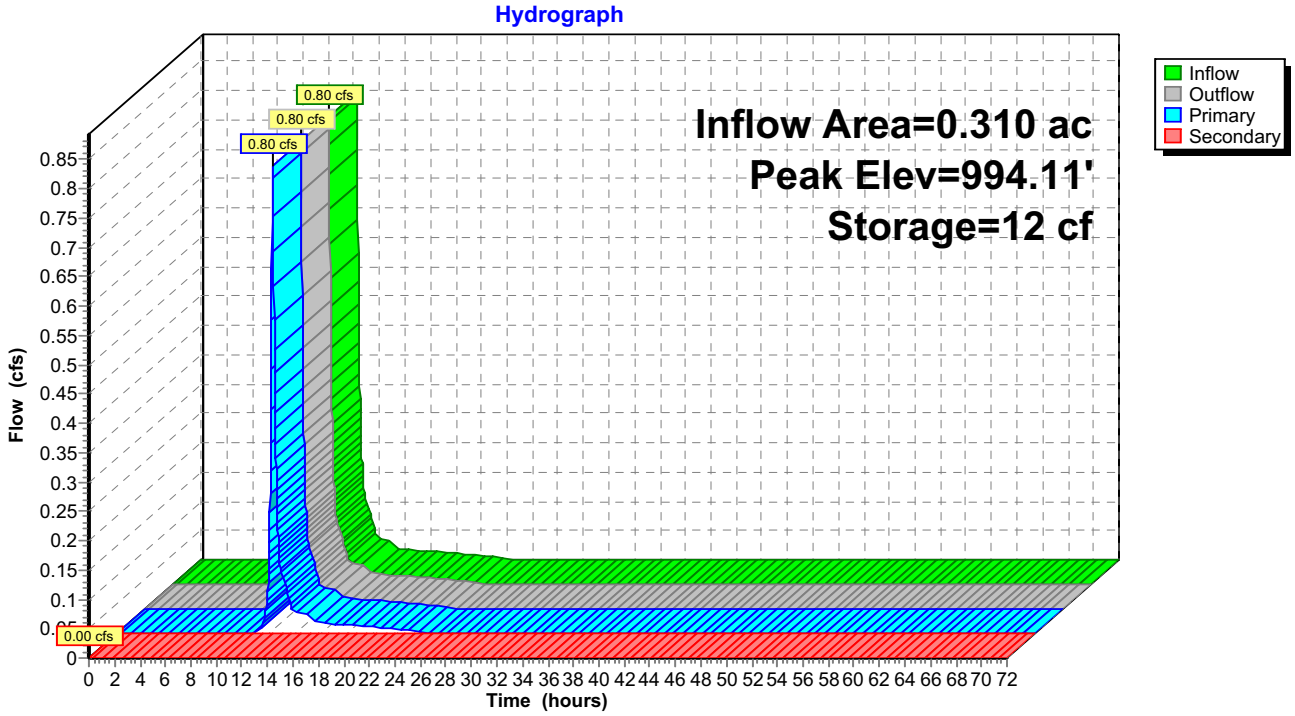
Pond CB_J4: CB_J4



Summary for Pond CB_J5: CB_J5

Inflow Area = 0.683 ac, 17.72% Impervious, Inflow Depth = 2.19" for 10yr-24hr event
Inflow = 2.05 cfs @ 12.20 hrs, Volume= 0.125 af
Outflow = 2.05 cfs @ 12.21 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.3 min
Primary = 2.05 cfs @ 12.21 hrs, Volume= 0.125 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 997.20' @ 12.21 hrs Surf.Area= 267 sf Storage= 32 cf

Plug-Flow detention time= 0.3 min calculated for 0.125 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (799.7 - 799.4)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	5,728 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	50	0	0
998.00	1,140	595	595
998.50	2,770	978	1,573
1,000.00	2,770	4,155	5,728

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.50'	**5.0' 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=2.04 cfs @ 12.21 hrs HW=997.20' TW=974.17' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 2.04 cfs @ 1.46 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=997.00' TW=994.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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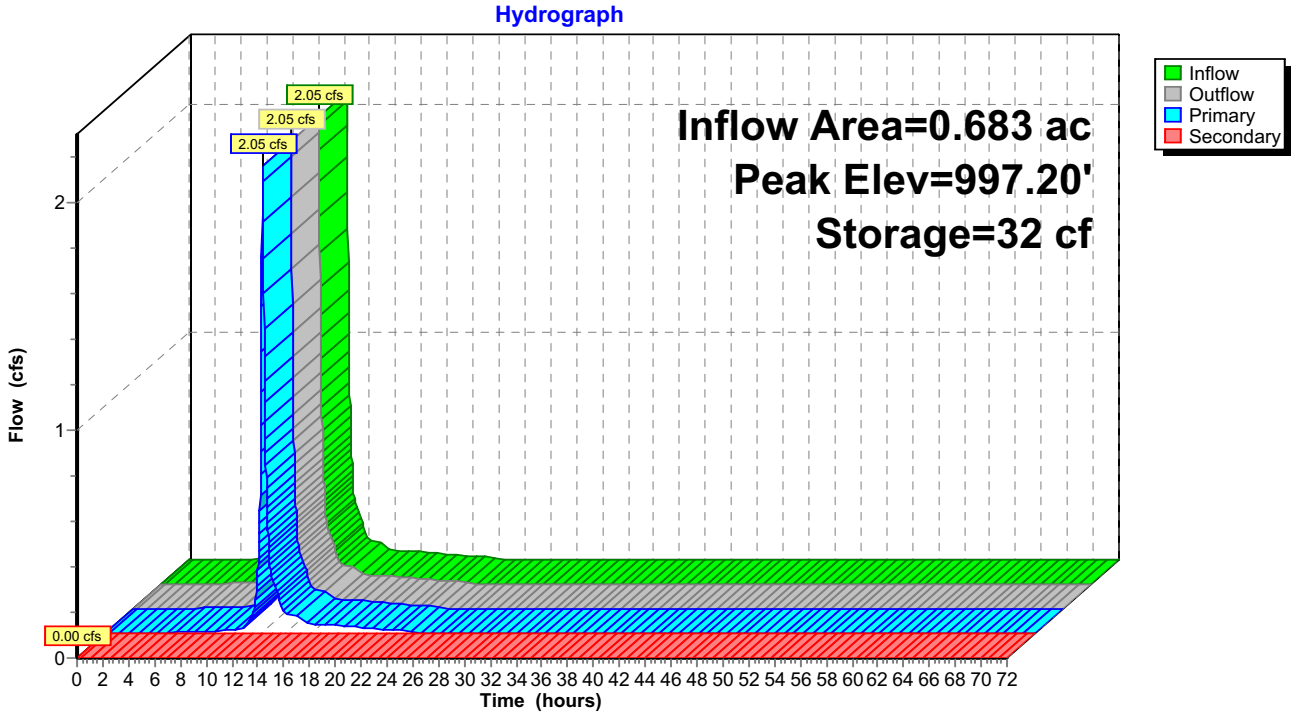
Pond CB_J5: CB_J5



Summary for Pond CB_L10: CB_L10

Inflow Area = 1.158 ac, 17.53% Impervious, Inflow Depth = 2.19" for 10yr-24hr event
Inflow = 3.48 cfs @ 12.20 hrs, Volume= 0.211 af
Outflow = 3.46 cfs @ 12.21 hrs, Volume= 0.211 af, Atten= 1%, Lag= 0.6 min
Primary = 3.46 cfs @ 12.21 hrs, Volume= 0.211 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 988.28' @ 12.21 hrs Surf.Area= 670 sf Storage= 192 cf

Plug-Flow detention time= 2.5 min calculated for 0.211 af (100% of inflow)
Center-of-Mass det. time= 2.3 min (801.9 - 799.6)

Volume	Invert	Avail.Storage	Storage Description
#1	987.99'	1,344 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

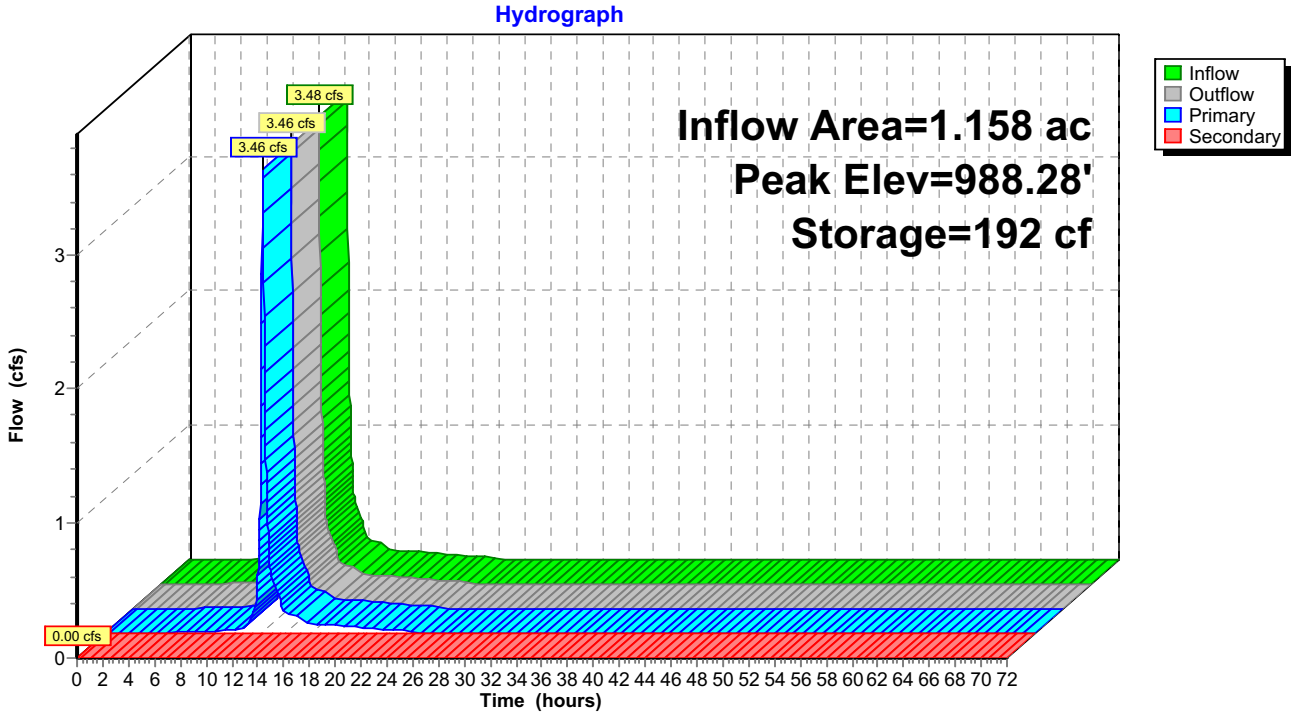
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
987.99	50	0	0
988.00	670	4	4
990.00	670	1,340	1,344

Device	Routing	Invert	Outlet Devices
#1	Primary	988.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.00'	**5.0' 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=3.44 cfs @ 12.21 hrs HW=988.28' TW=969.18' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 3.44 cfs @ 1.73 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=987.99' TW=982.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_L10: CB_L10



Summary for Pond CB_L4: CB_L4

Inflow Area = 0.167 ac, 20.96% Impervious, Inflow Depth = 2.24" for 10yr-24hr event
Inflow = 0.51 cfs @ 12.20 hrs, Volume= 0.031 af
Outflow = 0.51 cfs @ 12.21 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.3 min
Primary = 0.51 cfs @ 12.21 hrs, Volume= 0.031 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.08' @ 12.21 hrs Surf.Area= 160 sf Storage= 8 cf

Plug-Flow detention time= 0.4 min calculated for 0.031 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (796.6 - 796.2)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	1,325 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

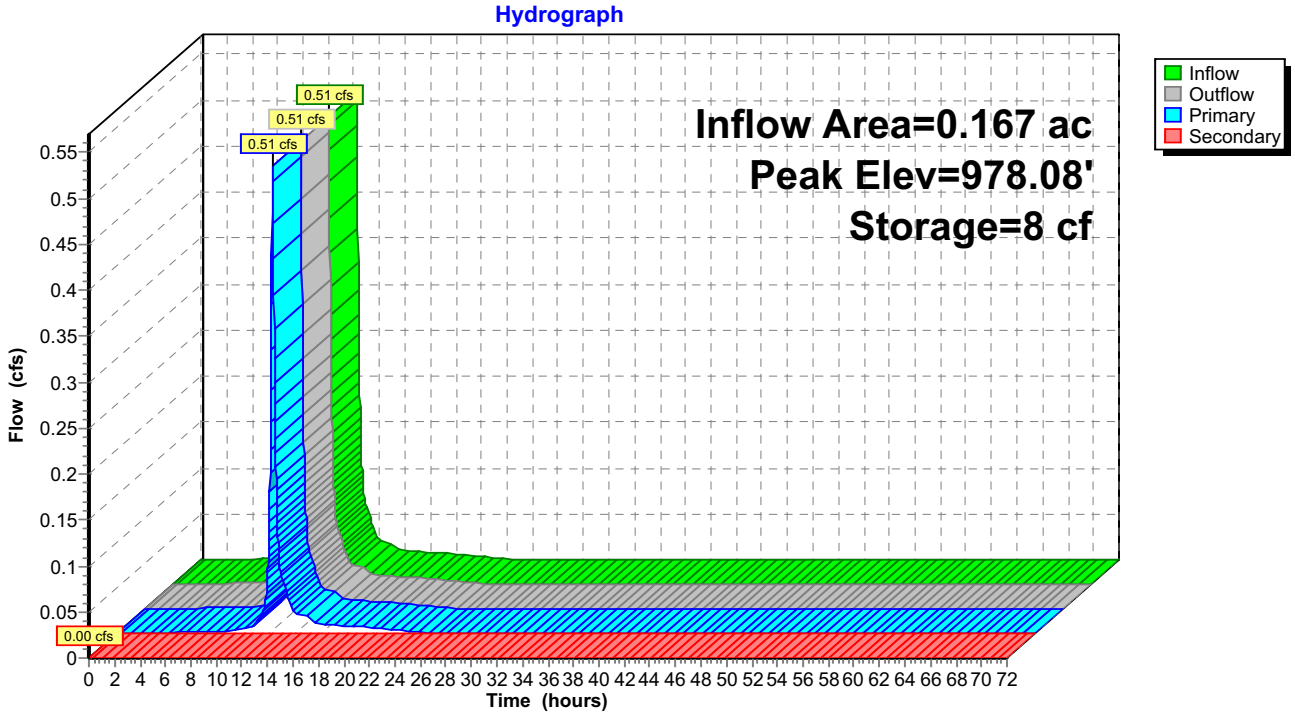
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
978.50	750	200	200
980.00	750	1,125	1,325

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	978.50'	**10.0' 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=0.51 cfs @ 12.21 hrs HW=978.08' TW=969.15' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.51 cfs @ 0.91 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=967.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_L4: CB_L4



Summary for Pond CB_L5: CB_L5

Inflow Area = 0.763 ac, 22.02% Impervious, Inflow Depth = 3.43" for 10yr-24hr event
Inflow = 3.23 cfs @ 12.22 hrs, Volume= 0.218 af
Outflow = 3.23 cfs @ 12.22 hrs, Volume= 0.218 af, Atten= 0%, Lag= 0.4 min
Primary = 3.23 cfs @ 12.22 hrs, Volume= 0.218 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 977.77' @ 12.22 hrs Surf.Area= 411 sf Storage= 62 cf

Plug-Flow detention time= 0.3 min calculated for 0.218 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (801.3 - 801.0)

Volume	Invert	Avail.Storage	Storage Description
#1	977.50'	6,613 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

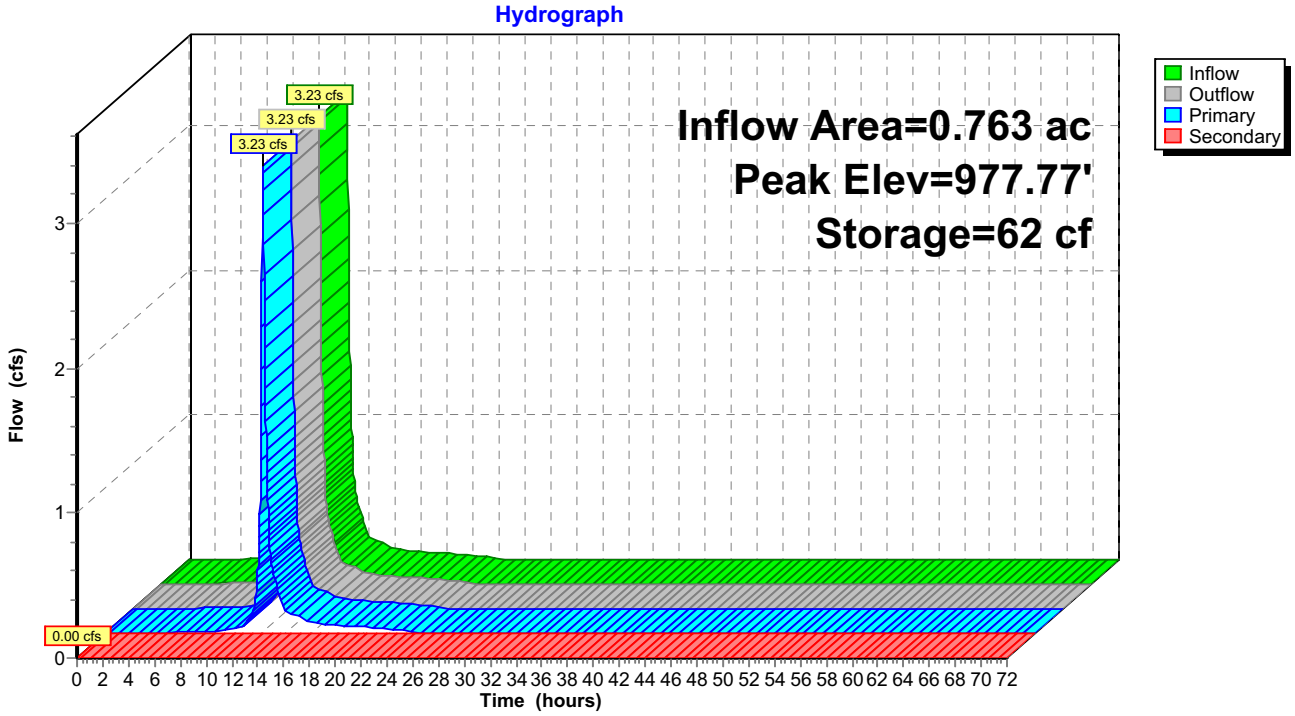
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
977.50	50	0	0
978.00	720	193	193
980.00	5,700	6,420	6,613

Device	Routing	Invert	Outlet Devices
#1	Primary	977.50'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.90'	**5.0' 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=3.22 cfs @ 12.22 hrs HW=977.77' TW=969.23' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.22 cfs @ 1.70 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=977.50' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_L5: CB_L5



Summary for Pond CB_L6: CB_L6

Inflow Area = 1.091 ac, 19.98% Impervious, Inflow Depth = 2.24" for 10yr-24hr event
Inflow = 3.34 cfs @ 12.20 hrs, Volume= 0.204 af
Outflow = 2.75 cfs @ 12.27 hrs, Volume= 0.204 af, Atten= 18%, Lag= 4.2 min
Primary = 1.77 cfs @ 12.27 hrs, Volume= 0.132 af
Secondary = 0.98 cfs @ 12.27 hrs, Volume= 0.072 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.18' @ 12.27 hrs Surf.Area= 1,301 sf Storage= 1,219 cf

Plug-Flow detention time= 16.2 min calculated for 0.204 af (100% of inflow)
Center-of-Mass det. time= 15.9 min (813.0 - 797.1)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	13,500 cf	**Custom Stage Data (Prismatic)** Listed below

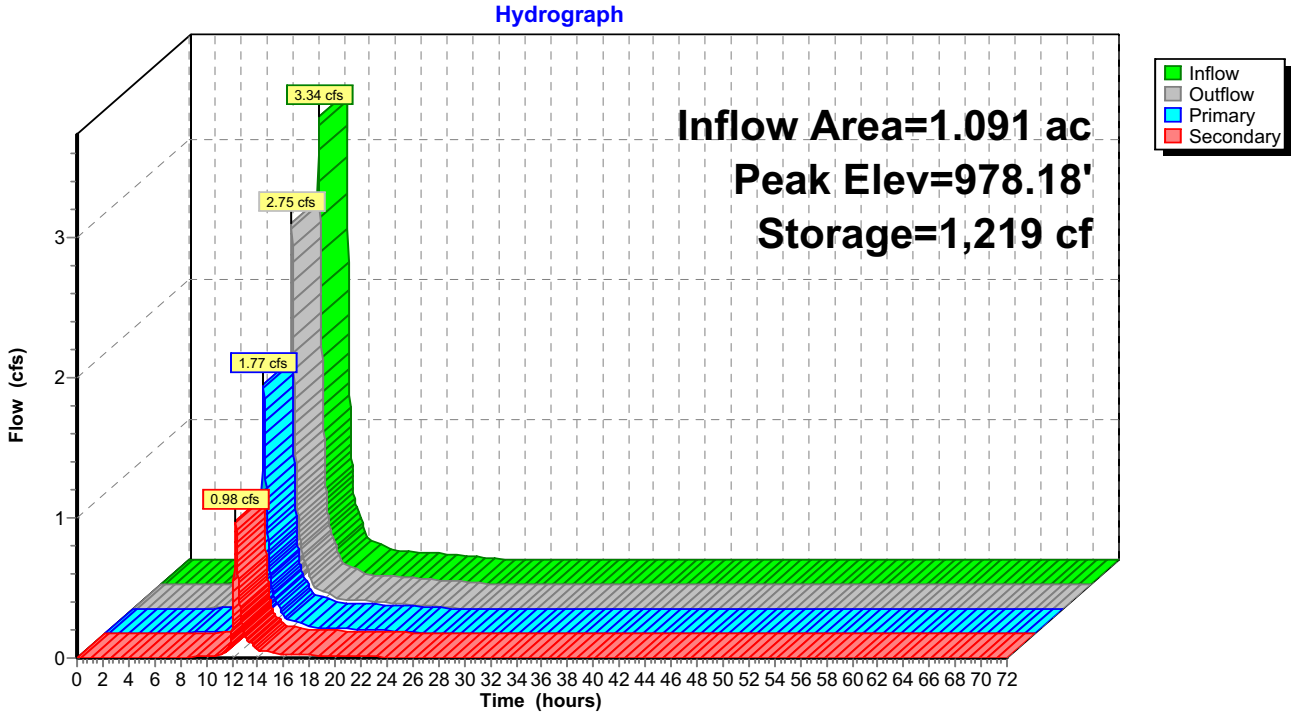
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	100	0	0
980.00	13,400	13,500	13,500

Device	Routing	Invert	Outlet Devices
#1	Secondary	978.00'	**5.0' 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
#2	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.77 cfs @ 12.27 hrs HW=978.18' TW=969.44' (Dynamic Tailwater)
↑—**2=Grate** (Weir Controls 1.77 cfs @ 1.39 fps)

Secondary OutFlow Max=0.97 cfs @ 12.27 hrs HW=978.18' TW=977.75' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 0.97 cfs @ 1.08 fps)

Pond CB_L6: CB_L6



Summary for Pond CB_L7: CB_L7

Inflow Area = 0.759 ac, 21.21% Impervious, Inflow Depth = 2.27" for 10yr-24hr event
Inflow = 2.35 cfs @ 12.20 hrs, Volume= 0.144 af
Outflow = 2.34 cfs @ 12.21 hrs, Volume= 0.144 af, Atten= 0%, Lag= 0.3 min
Primary = 2.34 cfs @ 12.21 hrs, Volume= 0.144 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 979.22' @ 12.21 hrs Surf.Area= 339 sf Storage= 42 cf

Plug-Flow detention time= 0.3 min calculated for 0.144 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (796.2 - 795.9)

Volume	Invert	Avail.Storage	Storage Description
#1	979.00'	715 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

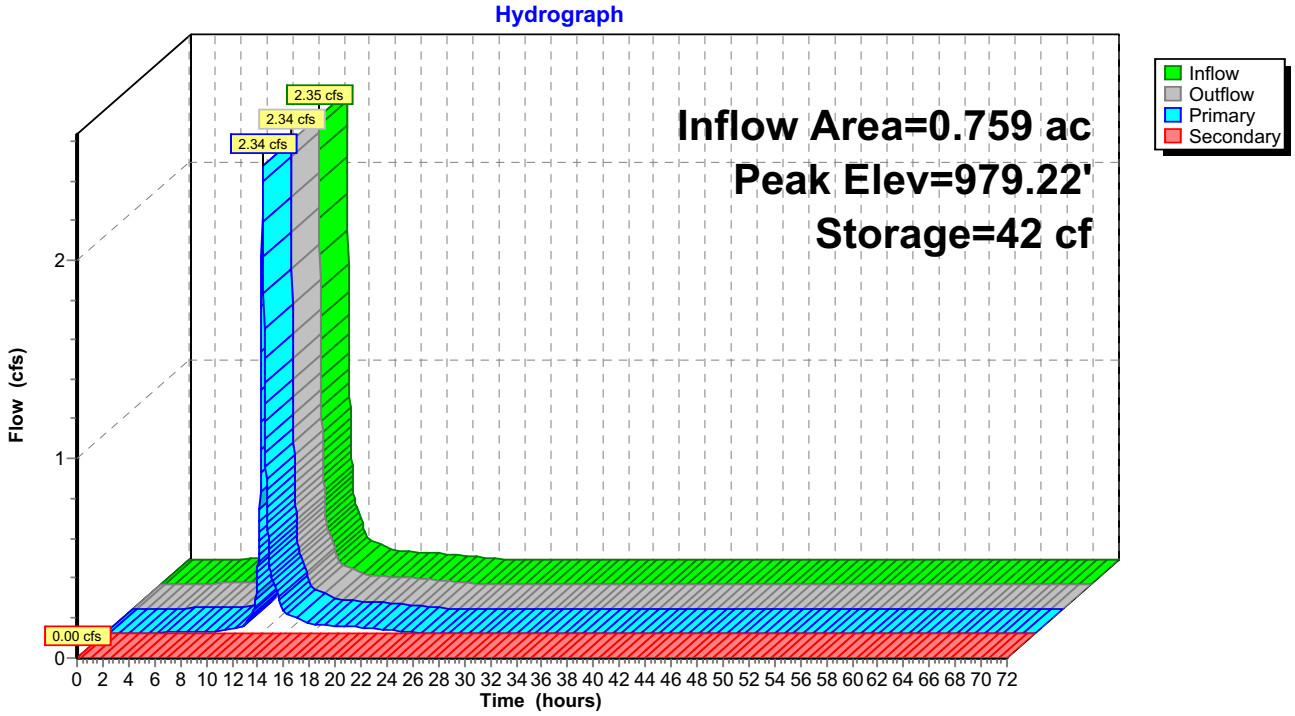
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
979.00	50	0	0
980.00	1,380	715	715

Device	Routing	Invert	Outlet Devices
#1	Primary	979.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.90'	**3.0' 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=2.33 cfs @ 12.21 hrs HW=979.22' TW=969.16' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 2.33 cfs @ 1.52 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=979.00' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_L7: CB_L7



Summary for Pond CB_L8: CB_L8

Inflow Area = 1.441 ac, 22.07% Impervious, Inflow Depth = 2.19" for 10yr-24hr event
Inflow = 4.27 cfs @ 12.20 hrs, Volume= 0.263 af
Outflow = 4.14 cfs @ 12.22 hrs, Volume= 0.263 af, Atten= 3%, Lag= 1.5 min
Primary = 4.14 cfs @ 12.22 hrs, Volume= 0.263 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 980.32' @ 12.22 hrs Surf.Area= 1,854 sf Storage= 303 cf

Plug-Flow detention time= 0.8 min calculated for 0.263 af (100% of inflow)
Center-of-Mass det. time= 0.8 min (795.0 - 794.2)

Volume	Invert	Avail.Storage	Storage Description
#1	980.00'	11,450 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
980.00	50	0	0
982.00	11,400	11,450	11,450

Device	Routing	Invert	Outlet Devices
#1	Primary	980.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	981.90'	**5.0' 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=4.13 cfs @ 12.22 hrs HW=980.32' TW=969.25' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 4.13 cfs @ 1.84 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=980.00' TW=979.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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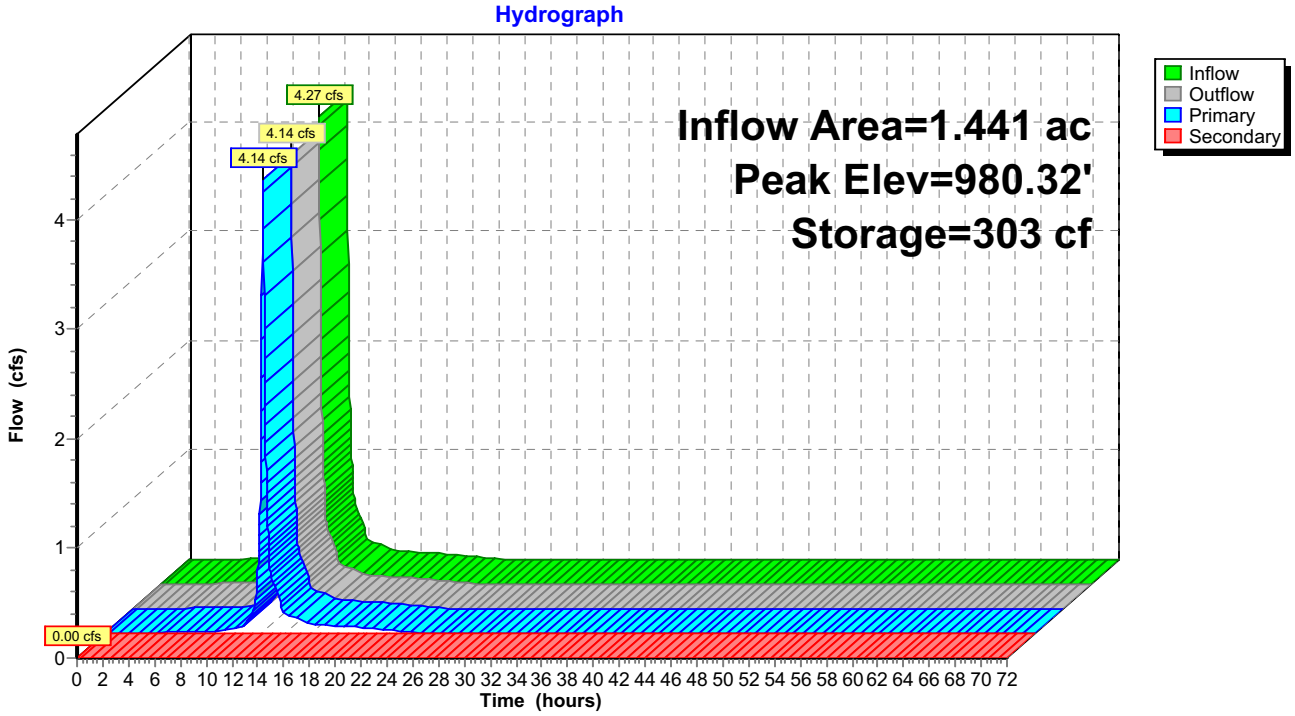
Pond CB_L8: CB_L8



Summary for Pond CB_L9: CB_L9

Inflow Area = 0.971 ac, 21.11% Impervious, Inflow Depth = 2.26" for 10yr-24hr event
Inflow = 2.99 cfs @ 12.20 hrs, Volume= 0.183 af
Outflow = 2.98 cfs @ 12.21 hrs, Volume= 0.183 af, Atten= 1%, Lag= 0.6 min
Primary = 2.98 cfs @ 12.21 hrs, Volume= 0.183 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 982.25' @ 12.21 hrs Surf.Area= 668 sf Storage= 98 cf

Plug-Flow detention time= 0.6 min calculated for 0.183 af (100% of inflow)
Center-of-Mass det. time= 0.6 min (796.5 - 795.9)

Volume	Invert	Avail.Storage	Storage Description
#1	982.00'	7,815 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

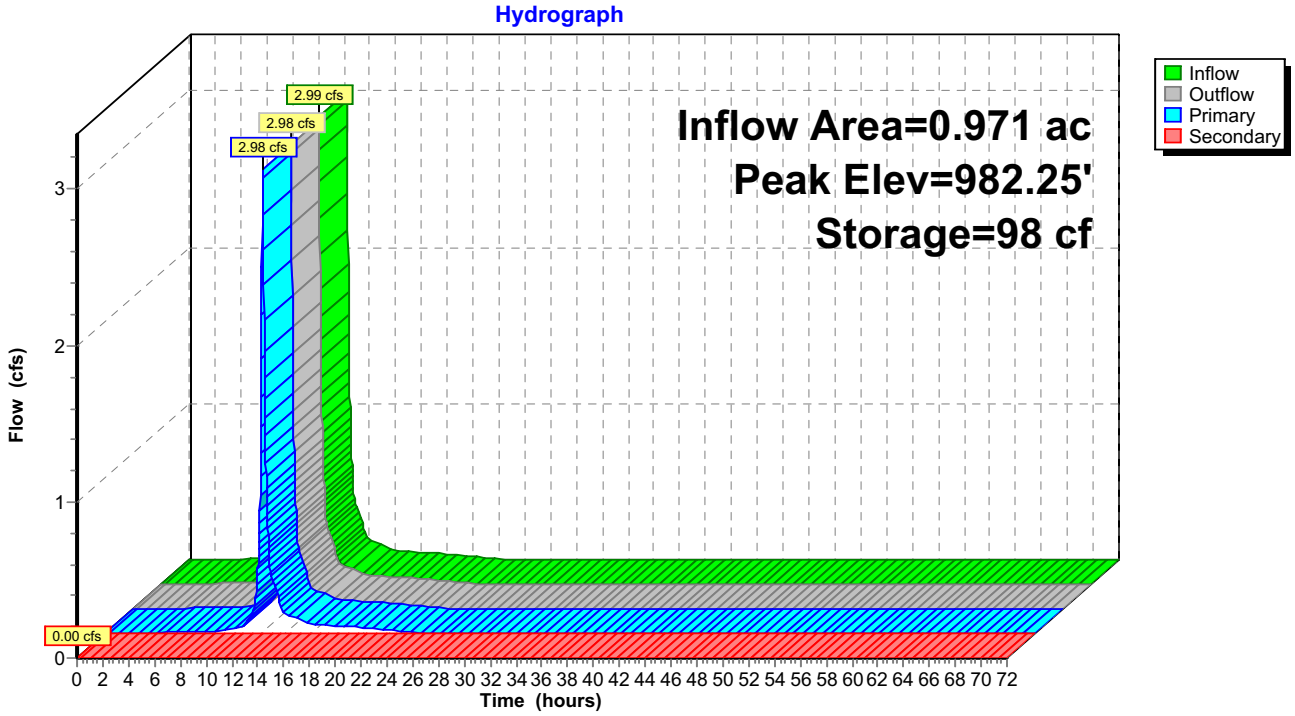
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
982.00	100	0	0
983.50	3,440	2,655	2,655
985.00	3,440	5,160	7,815

Device	Routing	Invert	Outlet Devices
#1	Primary	982.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	983.50'	**3.0' 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=2.96 cfs @ 12.21 hrs HW=982.25' TW=969.18' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 2.96 cfs @ 1.65 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=982.00' TW=980.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_L9: CB_L9



Summary for Pond CB_O10: CB_O10

Inflow Area = 0.609 ac, 15.44% Impervious, Inflow Depth = 2.14" for 10yr-24hr event
Inflow = 1.80 cfs @ 12.20 hrs, Volume= 0.109 af
Outflow = 1.79 cfs @ 12.21 hrs, Volume= 0.109 af, Atten= 1%, Lag= 0.6 min
Primary = 1.79 cfs @ 12.21 hrs, Volume= 0.109 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.18' @ 12.21 hrs Surf.Area= 521 sf Storage= 52 cf

Plug-Flow detention time= 0.4 min calculated for 0.109 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (802.2 - 801.8)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	25,530 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

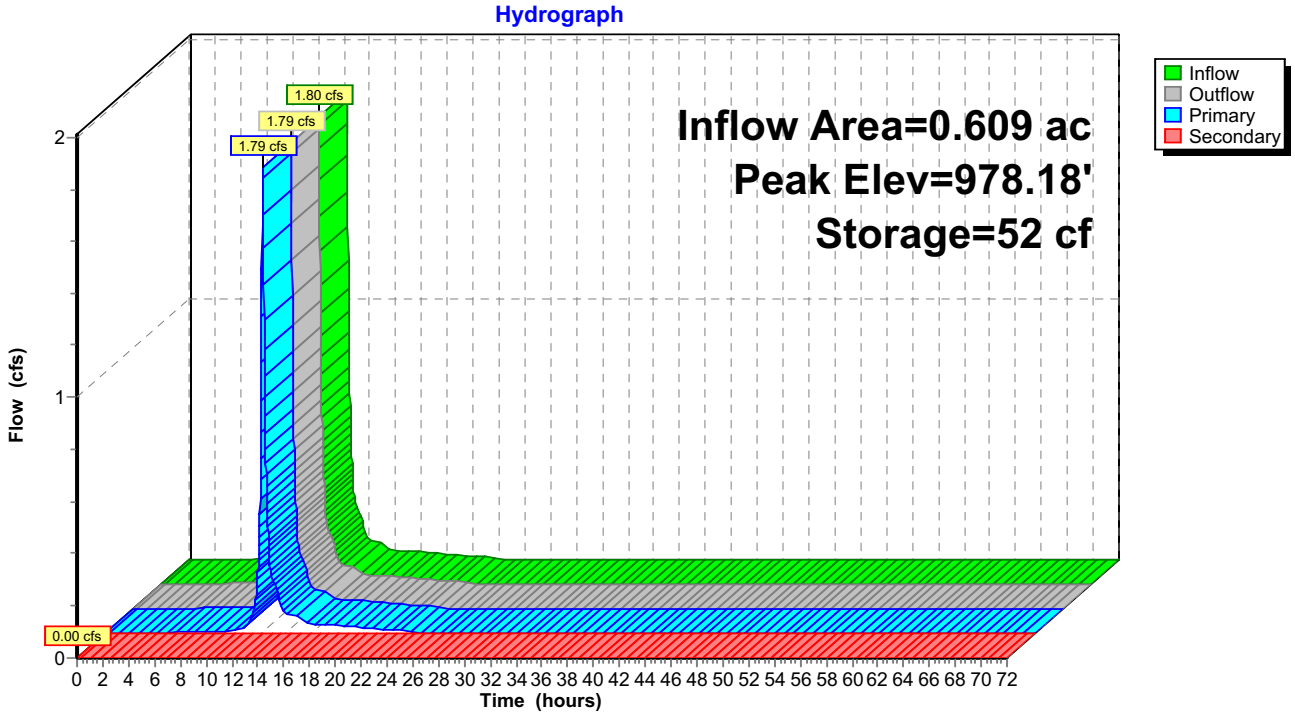
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
980.00	5,240	5,290	5,290
982.00	15,000	20,240	25,530

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	980.00'	**5.0' 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 @ 12.21 hrs HW=978.18' TW=969.18' (Dynamic Tailwater)
↑**1=Orifice/Grate** (Weir Controls 1.78 cfs @ 1.39 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=978.00' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_O10: CB_O10



Summary for Pond CB_O8: CB_O8

Inflow Area = 0.490 ac, 12.24% Impervious, Inflow Depth = 2.07" for 10yr-24hr event
Inflow = 1.41 cfs @ 12.20 hrs, Volume= 0.085 af
Outflow = 1.41 cfs @ 12.21 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.2 min
Primary = 1.41 cfs @ 12.21 hrs, Volume= 0.085 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 975.65' @ 12.21 hrs Surf.Area= 158 sf Storage= 16 cf

Plug-Flow detention time= 0.3 min calculated for 0.085 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (805.7 - 805.4)

Volume	Invert	Avail.Storage	Storage Description
#1	975.50'	913 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

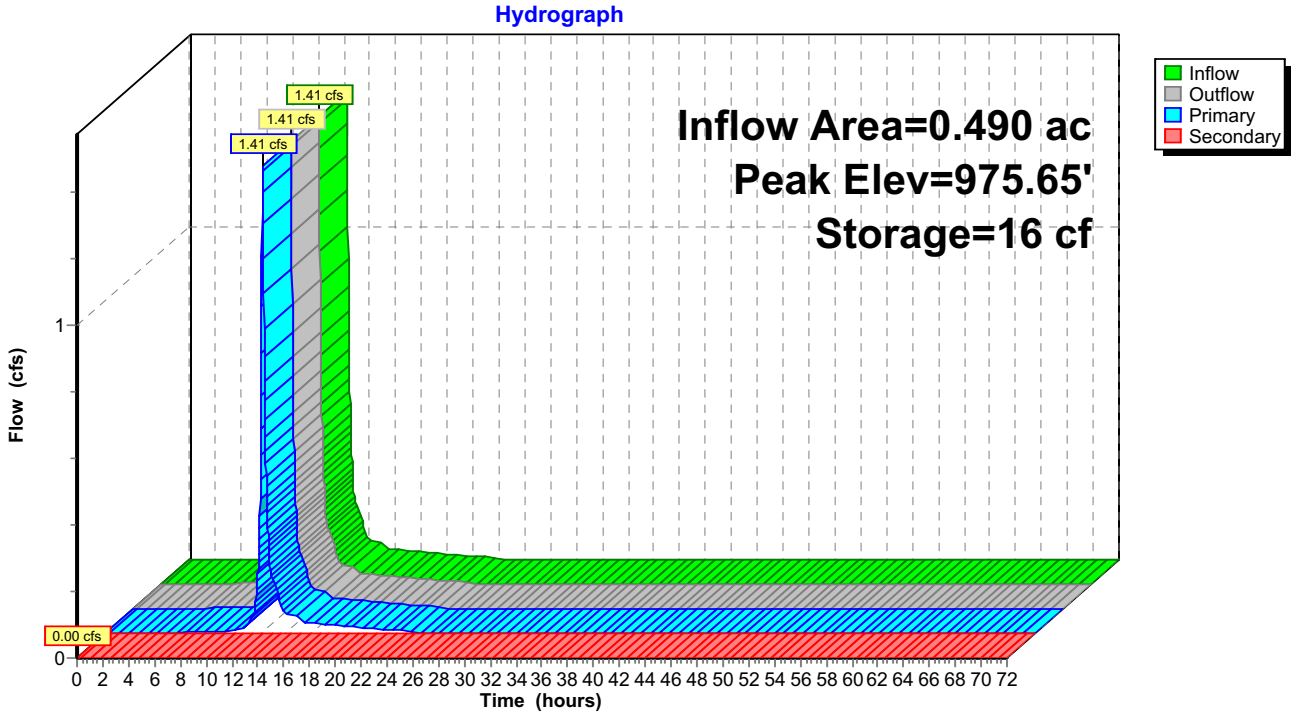
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
975.50	50	0	0
976.00	400	113	113
978.00	400	800	913

Device	Routing	Invert	Outlet Devices
#1	Primary	975.50'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	976.00'	**4.0' 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=1.40 cfs @ 12.21 hrs HW=975.65' TW=969.15' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 1.40 cfs @ 1.28 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=975.50' TW=967.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_O8: CB_O8



Summary for Pond CB_O9: CB_O9

Inflow Area = 1.143 ac, 19.86% Impervious, Inflow Depth = 2.24" for 10yr-24hr event
Inflow = 3.50 cfs @ 12.20 hrs, Volume= 0.214 af
Outflow = 3.49 cfs @ 12.21 hrs, Volume= 0.214 af, Atten= 0%, Lag= 0.4 min
Primary = 3.49 cfs @ 12.21 hrs, Volume= 0.214 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.28' @ 12.21 hrs Surf.Area= 461 sf Storage= 72 cf

Plug-Flow detention time= 0.3 min calculated for 0.213 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (797.5 - 797.2)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	2,275 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
979.00	1,500	775	775
980.00	1,500	1,500	2,275

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.00'	**3.0' 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=3.47 cfs @ 12.21 hrs HW=978.28' TW=969.16' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.47 cfs @ 1.74 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=975.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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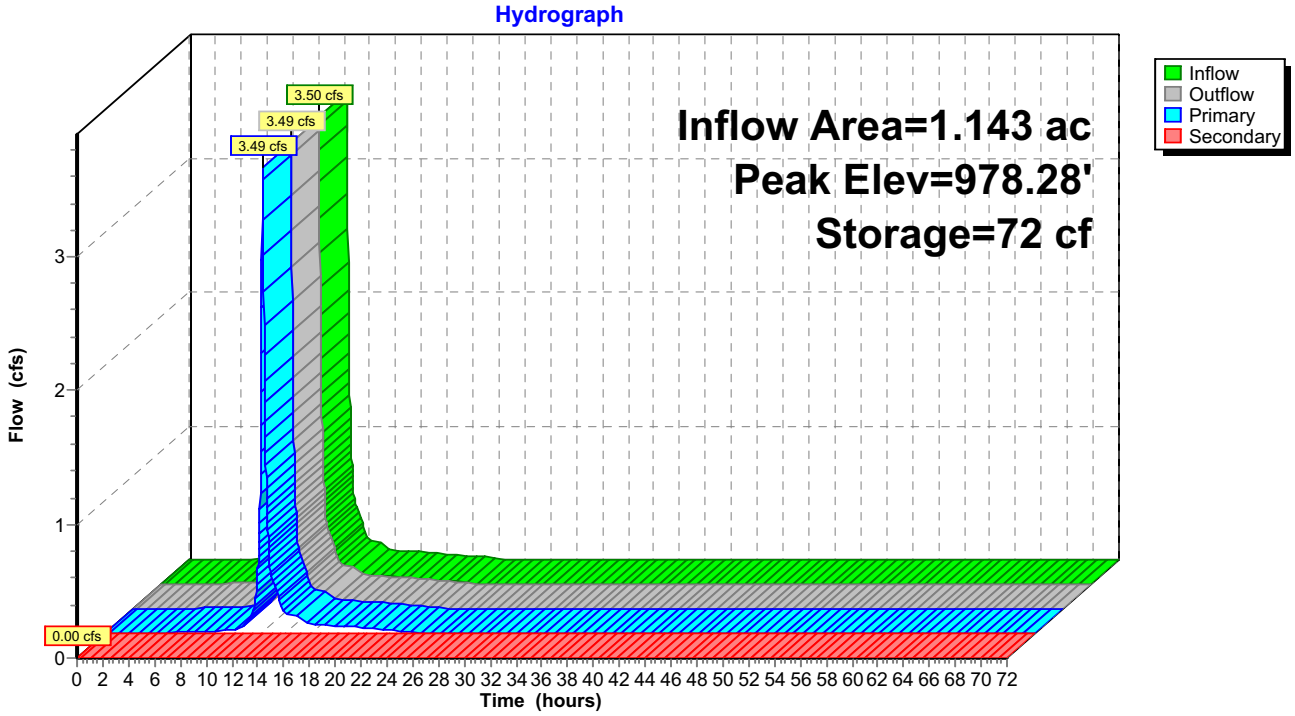
Pond CB_O9: CB_O9



Summary for Pond P1N: Pond 1N

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=1)

Inflow Area = 5.394 ac, 29.66% Impervious, Inflow Depth = 2.46" for 10yr-24hr event
Inflow = 17.58 cfs @ 12.20 hrs, Volume= 1.105 af
Outflow = 1.02 cfs @ 14.05 hrs, Volume= 0.602 af, Atten= 94%, Lag= 110.8 min
Primary = 1.02 cfs @ 14.05 hrs, Volume= 0.602 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.50' Surf.Area= 41,136 sf Storage= 169,437 cf
Peak Elev= 1,010.26' @ 13.64 hrs Surf.Area= 52,266 sf Storage= 203,999 cf (34,562 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 283.7 min (1,072.2 - 788.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	391,973 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

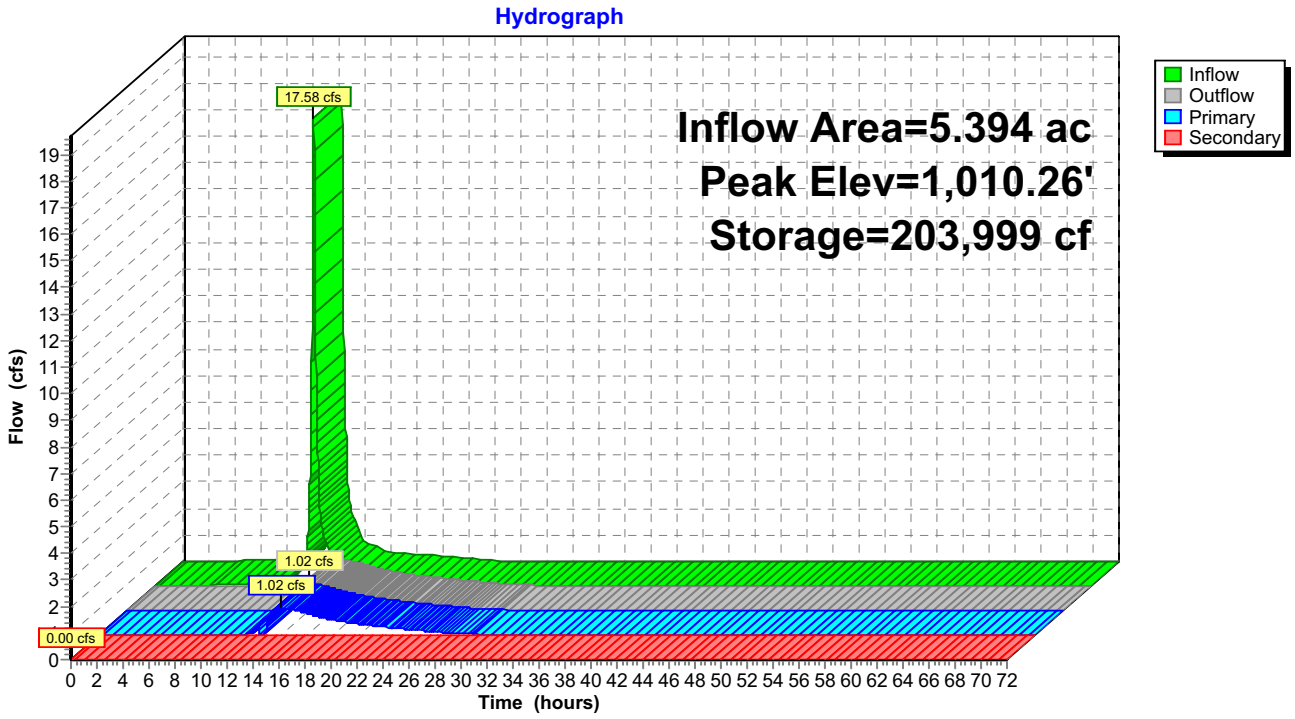
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	6,656	0	0
1,002.00	10,300	16,956	16,956
1,004.00	14,547	24,847	41,803
1,006.00	19,203	33,750	75,553
1,008.00	25,045	44,248	119,801
1,010.00	46,500	71,545	191,346
1,010.50	57,752	26,063	217,409
1,012.00	75,000	99,564	316,973
1,013.00	75,000	75,000	391,973

Device	Routing	Invert	Outlet Devices
#1	Primary	1,009.50'	**15.0" Round Main outlet (Structure 248 to 249)** L= 43.3' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 1,009.50' / 1,009.10' S= 0.0092 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf
#2	Device 1	1,010.80'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,007.00'	**15.0" Round low flow pipe** L= 30.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,006.50' / 1,007.00' S= -0.0163 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf
#4	Secondary	1,012.00'	**10.0' long x 2.0' breadth EOF** 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=1.03 cfs @ 14.05 hrs HW=1,010.25' TW=1,010.12' (Dynamic Tailwater)
└─**1=Main outlet (Structure 248 to 249)**(Outlet Controls 1.03 cfs @ 1.92 fps)
  └─**2=Orifice/Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Passes 1.03 cfs of 2.15 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,009.50' TW=1,009.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

Pond P1N: Pond 1N



Summary for Pond P1S: Pond 1S

Inflow Area = 94.180 ac, 33.41% Impervious, Inflow Depth > 2.37" for 10yr-24hr event
Inflow = 85.33 cfs @ 12.22 hrs, Volume= 18.605 af
Outflow = 20.93 cfs @ 13.47 hrs, Volume= 18.330 af, Atten= 75%, Lag= 75.0 min
Primary = 20.93 cfs @ 13.47 hrs, Volume= 18.330 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 967.00' Surf.Area= 72,066 sf Storage= 246,162 cf
Peak Elev= 969.04' @ 13.47 hrs Surf.Area= 100,764 sf Storage= 426,650 cf (180,488 cf above start)

Plug-Flow detention time= 668.4 min calculated for 12.675 af (68% of inflow)
Center-of-Mass det. time= 178.6 min (1,309.0 - 1,130.4)

Volume	Invert	Avail.Storage	Storage Description
#1	960.00'	1,047,368 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

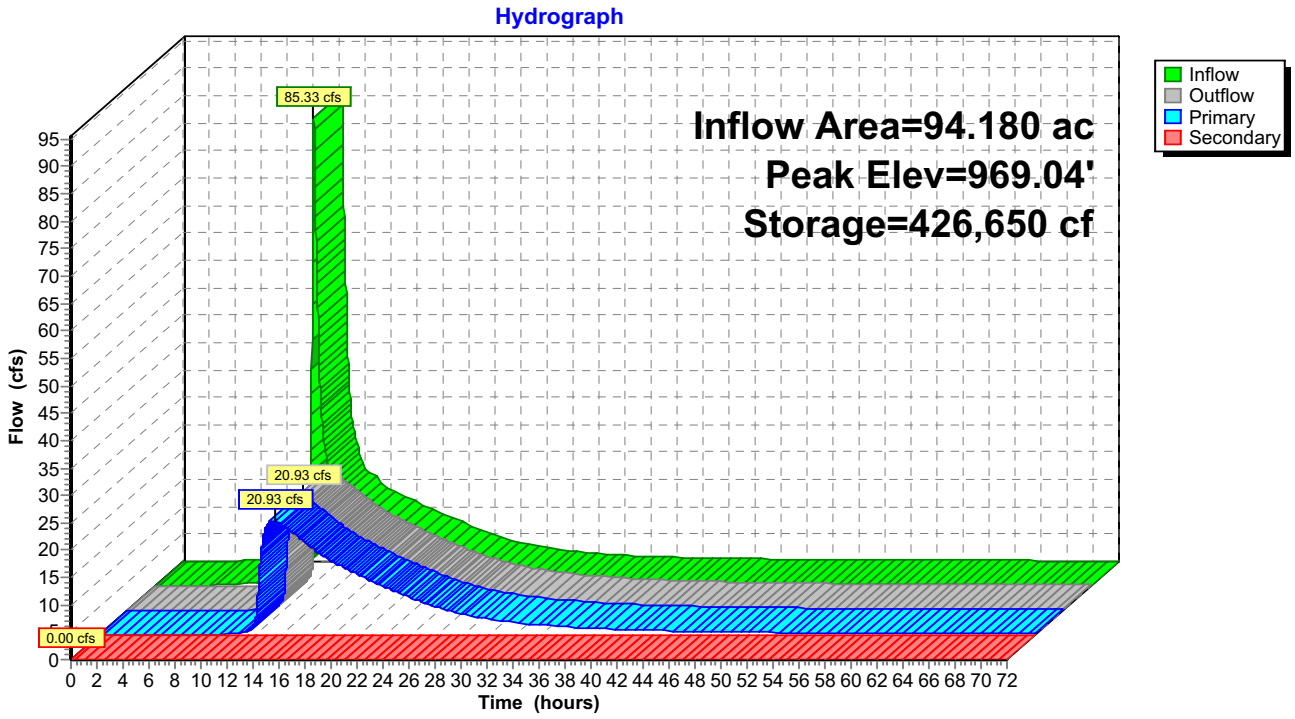
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
960.00	9,454	0	0
962.00	22,413	31,867	31,867
964.00	37,168	59,581	91,448
966.00	54,342	91,510	182,958
968.00	89,790	144,132	327,090
970.00	110,794	200,584	527,674
972.00	136,300	247,094	774,768
974.00	136,300	272,600	1,047,368

Device	Routing	Invert	Outlet Devices
#1	Primary	967.00'	**30.0" Round Main outlet (Structure 294 to 295)** L= 35.4' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 967.00' / 966.50' S= 0.0141 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 4.91 sf
#2	Device 1	971.00'	**48.0" Horiz. Structure 294 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	967.00'	**30.0" Round low flow pipe** L= 21.6' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 966.00' / 967.00' S= -0.0463 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 4.91 sf
#4	Secondary	971.00'	**10.0' long x 4.0' breadth EOF** 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 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=20.93 cfs @ 13.47 hrs HW=969.04' TW=0.00' (Dynamic Tailwater)
└─**1=Main outlet (Structure 294 to 295)**(Passes 20.93 cfs of 20.94 cfs potential flow)
  ├─**2=Structure 294 Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Inlet Controls 20.93 cfs @ 4.87 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=967.00' TW=0.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

Pond P1S: Pond 1S



Summary for Pond P2S: Pond 2S

Inflow Area = 19.486 ac, 39.59% Impervious, Inflow Depth > 2.67" for 10yr-24hr event
Inflow = 30.06 cfs @ 12.21 hrs, Volume= 4.328 af
Outflow = 14.70 cfs @ 12.62 hrs, Volume= 4.314 af, Atten= 51%, Lag= 24.4 min
Primary = 14.70 cfs @ 12.62 hrs, Volume= 4.314 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 969.00' Surf.Area= 18,607 sf Storage= 77,154 cf
Peak Elev= 970.61' @ 12.62 hrs Surf.Area= 23,887 sf Storage= 112,096 cf (34,942 cf above start)

Plug-Flow detention time= 371.6 min calculated for 2.542 af (59% of inflow)
Center-of-Mass det. time= 71.1 min (970.8 - 899.7)

Volume	Invert	Avail.Storage	Storage Description
#1	962.00'	200,412 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
962.00	6,074	0	0
964.00	8,571	14,645	14,645
966.00	11,401	19,972	34,617
968.00	14,555	25,956	60,573
970.00	22,658	37,213	97,786
972.00	26,656	49,314	147,100
974.00	26,656	53,312	200,412

Device	Routing	Invert	Outlet Devices
#1	Primary	969.00'	**24.0" Round Main outlet (Structure 251 to 252)** L= 32.8' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.00' / 967.90' S= 0.0335 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Device 1	972.00'	**48.0" Horiz. Structure 251 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	967.00'	**24.0" Round low flow pipe** L= 36.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 966.00' / 967.00' S= -0.0272 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#4	Secondary	972.00'	**8.0' long x 32.0' breadth EOF** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=14.70 cfs @ 12.62 hrs HW=970.61' TW=0.00' (Dynamic Tailwater)
└─**1=Main outlet (Structure 251 to 252)** (Inlet Controls 14.70 cfs @ 5.41 fps)
  ├─**2=Structure 251 Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Passes 14.70 cfs of 19.22 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=969.00' TW=0.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

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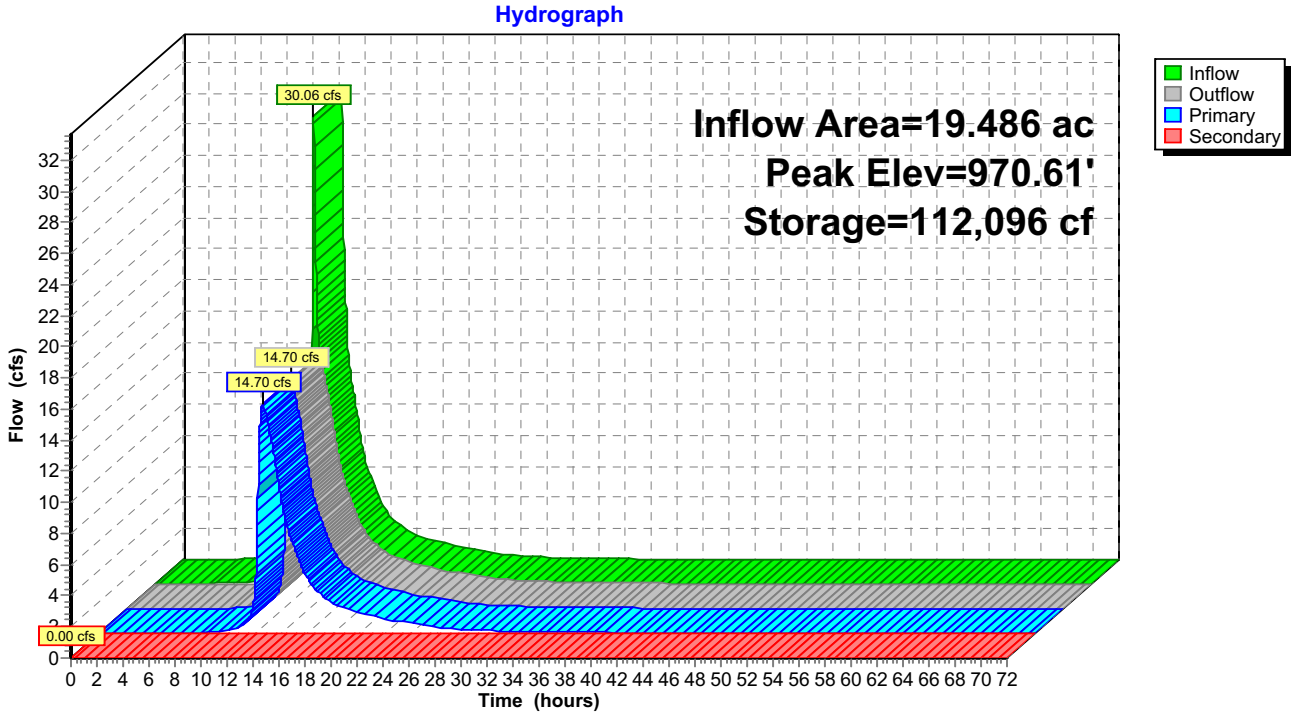
Pond P2S: Pond 2S



Summary for Pond P3S: Pond 3S

Inflow Area = 12.637 ac, 40.00% Impervious, Inflow Depth = 2.69" for 10yr-24hr event
Inflow = 44.93 cfs @ 12.20 hrs, Volume= 2.835 af
Outflow = 10.02 cfs @ 12.58 hrs, Volume= 2.806 af, Atten= 78%, Lag= 22.8 min
Primary = 10.02 cfs @ 12.58 hrs, Volume= 2.806 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 973.00' Surf.Area= 32,176 sf Storage= 137,120 cf
Peak Elev= 974.65' @ 12.58 hrs Surf.Area= 40,521 sf Storage= 197,856 cf (60,737 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 183.3 min (963.8 - 780.6)

Volume	Invert	Avail.Storage	Storage Description
#1	966.00'	766,406 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
966.00	10,224	0	0
968.00	15,259	25,483	25,483
970.00	20,470	35,729	61,212
972.00	26,233	46,703	107,915
974.00	38,119	64,352	172,267
976.00	45,500	83,619	255,886
978.00	65,000	110,500	366,386
980.00	103,996	168,996	535,382
982.00	127,028	231,024	766,406

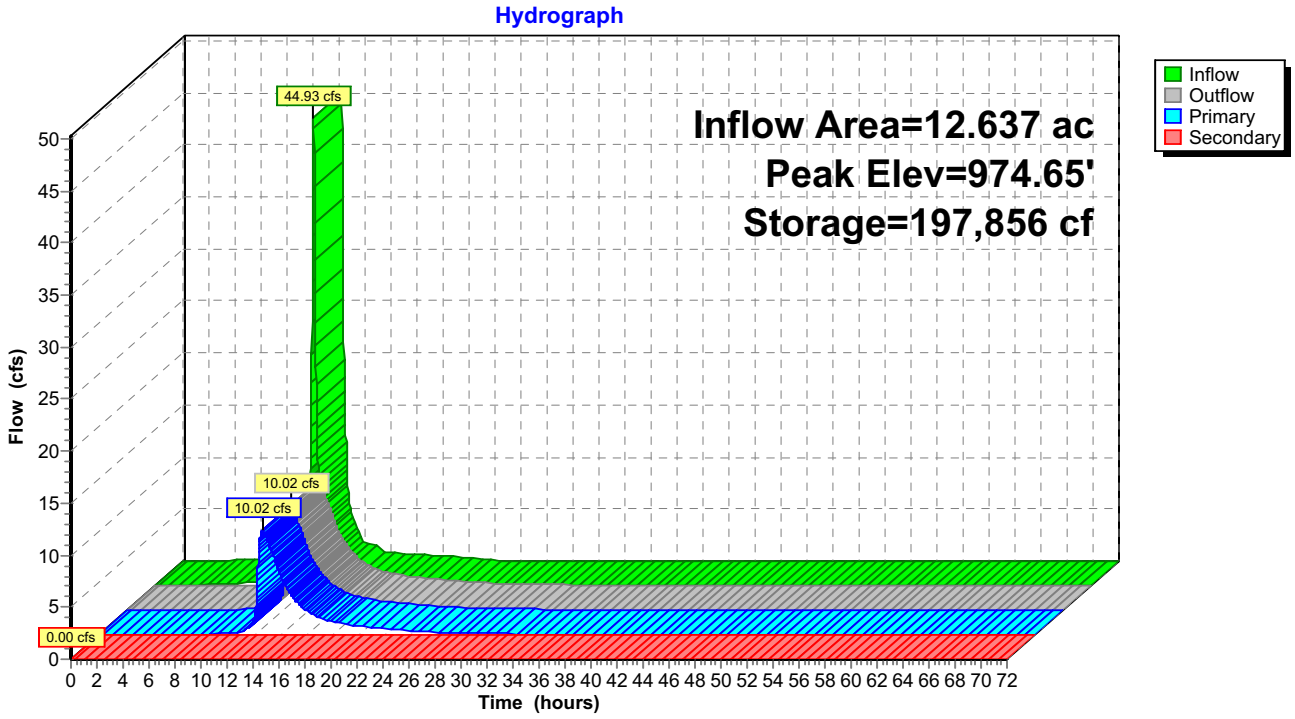
Device	Routing	Invert	Outlet Devices
#1	Primary	970.00'	**21.0" Round Main outlet (Structure I10 to I9)** L= 108.4' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.00' / 969.50' S= 0.0046 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#2	Device 1	970.50'	**21.0" Round Structure I11 to I10** L= 26.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.50' / 970.00' S= 0.0189 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#3	Device 2	972.00'	**21.0" Round Structure I12 to I11** L= 30.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 972.00' / 971.50' S= 0.0164 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#4	Device 3	973.00'	**21.0" Round Structure I13 to I12** L= 152.2' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 973.00' / 972.00' S= 0.0066 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#5	Device 4	976.10'	**48.0" Horiz. I13 Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 4	970.00'	**21.0" Round low flow pipe** L= 35.6' RCP, end-section conforming to fill, Ke= 0.500

			Inlet / Outlet Invert= 968.00' / 970.00' S= -0.0562 '/' Cc= 0.900
			n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#7	Secondary	978.00'	**5.0' long x 2.0' breadth EOF**
			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=10.02 cfs @ 12.58 hrs HW=974.65' TW=971.43' (Dynamic Tailwater)
- **1=Main outlet (Structure I10 to I9)** (Passes 10.02 cfs of 20.64 cfs potential flow)
  - **2=Structure I11 to I10** (Passes 10.02 cfs of 25.97 cfs potential flow)
    - **3=Structure I12 to I11** (Passes 10.02 cfs of 17.76 cfs potential flow)
      - **4=Structure I13 to I12** (Barrel Controls 10.02 cfs @ 5.51 fps)
        - **5=I13 Grate** (Controls 0.00 cfs)
        - **6=low flow pipe** (Passes 10.02 cfs of 14.88 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.00' TW=972.00' (Dynamic Tailwater)
- **7=EOF** (Controls 0.00 cfs)

Pond P3S: Pond 3S



Summary for Pond P4S: Pond 4S

Inflow Area = 75.911 ac, 31.08% Impervious, Inflow Depth > 2.33" for 10yr-24hr event
Inflow = 71.63 cfs @ 12.21 hrs, Volume= 14.725 af
Outflow = 36.13 cfs @ 12.44 hrs, Volume= 14.655 af, Atten= 50%, Lag= 13.4 min
Primary = 36.13 cfs @ 12.44 hrs, Volume= 14.655 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 967.50' Surf.Area= 22,564 sf Storage= 74,427 cf
Peak Elev= 969.66' @ 12.44 hrs Surf.Area= 36,105 sf Storage= 136,919 cf (62,492 cf above start)

Plug-Flow detention time= 297.8 min calculated for 12.946 af (88% of inflow)
Center-of-Mass det. time= 60.6 min (1,225.3 - 1,164.7)

Volume	Invert	Avail.Storage	Storage Description
#1	960.00'	730,861 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
960.00	2,404	0	0
962.00	4,393	6,797	6,797
964.00	9,311	13,704	20,501
966.00	15,824	25,135	45,636
968.00	24,811	40,635	86,271
970.00	38,395	63,206	149,477
972.00	58,966	97,361	246,838
974.00	118,288	177,254	424,092
976.00	188,481	306,769	730,861

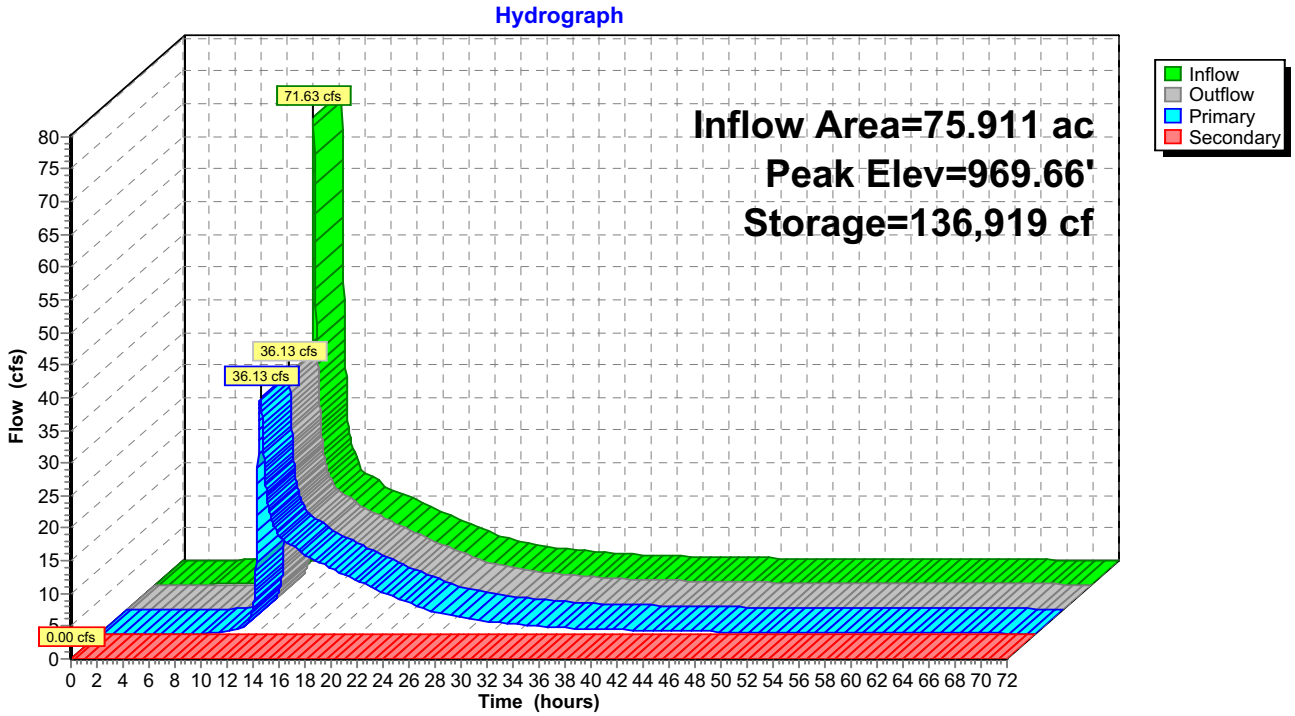
Device	Routing	Invert	Outlet Devices
#1	Primary	967.50'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 258.6' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 967.50' / 967.00' S= 0.0019 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 11.40 sf
#2	Device 1	971.70'	**60.0" Horiz. Structure 254 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	964.00'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 30.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 963.00' / 964.00' S= -0.0333 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 11.40 sf
#4	Secondary	969.00'	**36.0" Round Secondary outlet (Structure 184 to 185)** L= 147.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.00' / 967.00' S= 0.0136 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#5	Device 4	969.50'	**36.0" Round Structure 187 to 184** L= 24.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.50' / 969.00' S= 0.0204 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#6	Device 5	970.50'	**36.0" Round Structure 186 to 187**

			L= 64.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 970.50' / 969.50' S= 0.0155 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#7	Device 6	971.70'	**10.0' long x 4.0' breadth Berm to Secondary EOF** 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 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=36.12 cfs @ 12.44 hrs HW=969.66' TW=968.59' (Dynamic Tailwater)
└─**1=RCP_Arch 59x36** (Barrel Controls 36.12 cfs @ 5.16 fps)
  └─**2=Structure 254 Grate** (Controls 0.00 cfs)
  └─**3=RCP_Arch 59x36** (Passes 36.12 cfs of 56.83 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=967.50' TW=967.00' (Dynamic Tailwater)
└─**4=Secondary outlet (Structure 184 to 185)**(Controls 0.00 cfs)
  └─**5=Structure 187 to 184** (Controls 0.00 cfs)
    └─**6=Structure 186 to 187** (Controls 0.00 cfs)
      └─**7=Berm to Secondary EOF** (Controls 0.00 cfs)

Pond P4S: Pond 4S



Summary for Pond P5S: Pond 5S

Inflow Area = 53.598 ac, 33.43% Impervious, Inflow Depth = 2.46" for 10yr-24hr event
Inflow = 173.73 cfs @ 12.20 hrs, Volume= 10.997 af
Outflow = 10.63 cfs @ 13.59 hrs, Volume= 10.521 af, Atten= 94%, Lag= 83.4 min
Primary = 10.63 cfs @ 13.59 hrs, Volume= 10.521 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 978.00' Surf.Area= 162,000 sf Storage= 888,000 cf
Peak Elev= 979.75' @ 13.59 hrs Surf.Area= 200,829 sf Storage= 1,205,300 cf (317,300 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 528.2 min (1,313.1 - 784.9)

Volume	Invert	Avail.Storage	Storage Description
#1	970.00'	3,604,800 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
970.00	70,000	0	0
972.00	89,000	159,000	159,000
974.00	109,000	198,000	357,000
976.00	130,000	239,000	596,000
978.00	162,000	292,000	888,000
980.00	206,400	368,400	1,256,400
982.00	237,000	443,400	1,699,800
984.00	237,000	474,000	2,173,800
990.00	240,000	1,431,000	3,604,800

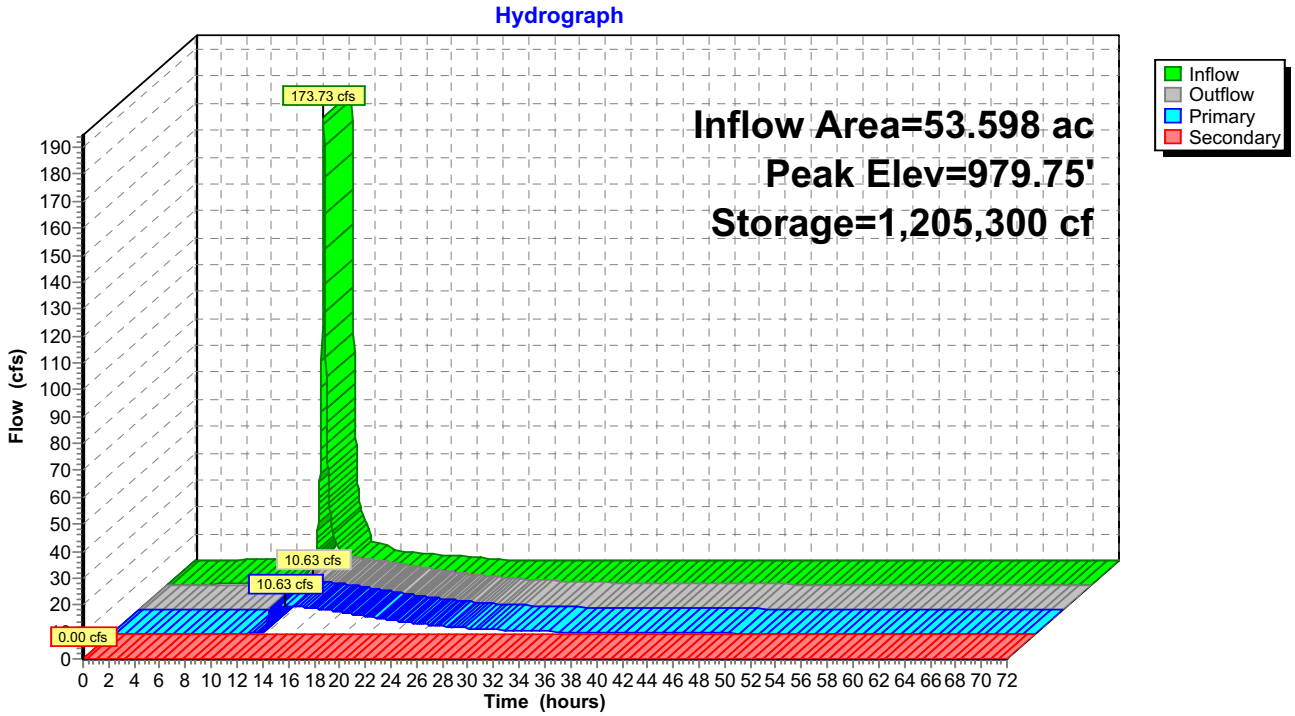
Device	Routing	Invert	Outlet Devices
#1	Primary	970.00'	**18.0" Round Structure 273 to 246** L= 192.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.00' / 968.50' S= 0.0078 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#2	Device 1	972.00'	**18.0" Round Structure 272 to 273** L= 70.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 972.00' / 970.00' S= 0.0286 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#3	Device 2	974.00'	**18.0" Round Structure 271 to 272** L= 50.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 974.00' / 973.00' S= 0.0200 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#4	Device 3	978.00'	**18.0" Round Structure 245 to 271** L= 108.6' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 978.00' / 974.00' S= 0.0368 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#5	Device 4	975.50'	**21.0" Round low flow pipe** L= 29.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 975.00' / 975.50' S= -0.0172 '/' Cc= 0.900

			n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#6	Device 4	981.50'	**48.0" Horiz. Structure 245 grate** C= 0.600
			Limited to weir flow at low heads
#7	Secondary	981.50'	**10.0' long x 2.0' breadth EOF**
			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=10.63 cfs @ 13.59 hrs HW=979.75' TW=969.35' (Dynamic Tailwater)
- **1=Structure 273 to 246** (Passes 10.63 cfs of 20.38 cfs potential flow)
  - **2=Structure 272 to 273** (Passes 10.63 cfs of 25.86 cfs potential flow)
    - **3=Structure 271 to 272** (Passes 10.63 cfs of 22.34 cfs potential flow)
      - **4=Structure 245 to 271** (Inlet Controls 10.63 cfs @ 6.02 fps)
        - **5=low flow pipe** (Passes 10.63 cfs of 15.32 cfs potential flow)
        - **6=Structure 245 grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=978.00' (Dynamic Tailwater)
- **7=EOF** (Controls 0.00 cfs)

Pond P5S: Pond 5S



Summary for Pond Wetland 9: Wetland 9

[80] Warning: Exceeded Pond P1N by 0.09' @ 12.52 hrs (0.80 cfs 0.027 af)

Inflow Area = 10.217 ac, 25.83% Impervious, Inflow Depth > 1.78" for 10yr-24hr event
Inflow = 9.57 cfs @ 12.23 hrs, Volume= 1.517 af
Outflow = 5.63 cfs @ 12.62 hrs, Volume= 1.217 af, Atten= 41%, Lag= 22.9 min
Primary = 5.63 cfs @ 12.62 hrs, Volume= 1.217 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.00' Surf.Area= 9,469 sf Storage= 6,526 cf
Peak Elev= 1,010.24' @ 12.62 hrs Surf.Area= 16,723 sf Storage= 23,631 cf (17,106 cf above start)

Plug-Flow detention time= 236.5 min calculated for 1.066 af (70% of inflow)
Center-of-Mass det. time= 75.2 min (987.4 - 912.2)

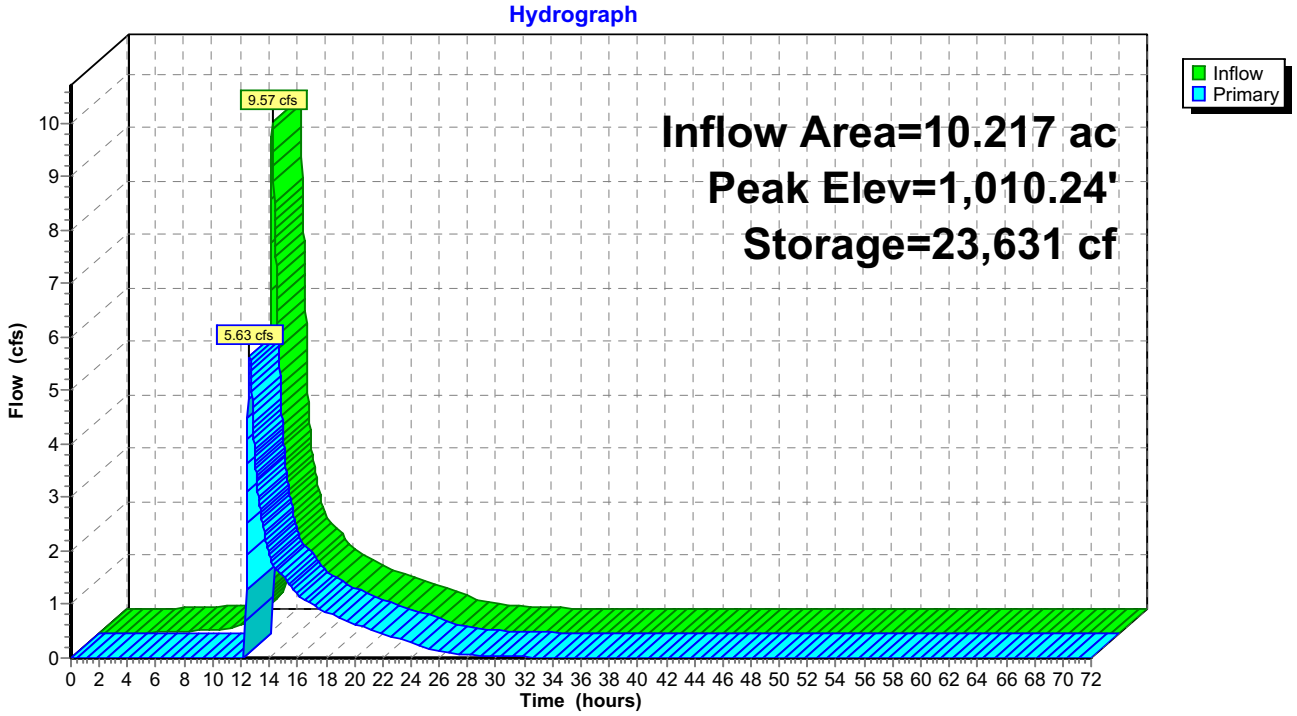
Volume	Invert	Avail.Storage	Storage Description
#1	1,008.00'	53,068 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,008.00	3,582	0	0
1,009.00	9,469	6,526	6,526
1,010.00	16,723	13,096	19,622
1,012.00	16,723	33,446	53,068

Device	Routing	Invert	Outlet Devices
#1	Primary	1,010.00'	**20.0' long x 6.0' 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 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=5.63 cfs @ 12.62 hrs HW=1,010.24' TW=0.00' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 5.63 cfs @ 1.17 fps)

Pond Wetland 9: Wetland 9



Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1N: 1N Runoff Area=4.840 ac 30.45% Impervious Runoff Depth=5.16"
Tc=12.0 min CN=WQ Runoff=33.67 cfs 2.082 af

Subcatchment1N_100: 1N_100 Runoff Area=0.554 ac 22.74% Impervious Runoff Depth=4.93"
Flow Length=300' Slope=0.0730 '/' Tc=14.8 min CN=WQ Runoff=3.40 cfs 0.228 af

Subcatchment1S: 1S Runoff Area=13.917 ac 49.29% Impervious Runoff Depth=5.50"
Tc=12.0 min CN=WQ Runoff=99.62 cfs 6.375 af

Subcatchment2S: 2S Runoff Area=4.152 ac 49.86% Impervious Runoff Depth=5.70"
Tc=12.0 min CN=WQ Runoff=30.90 cfs 1.971 af

Subcatchment3S: 3S Runoff Area=9.641 ac 44.37% Impervious Runoff Depth=5.55"
Tc=12.0 min CN=WQ Runoff=70.43 cfs 4.456 af

Subcatchment3S_100: 3S_100 Runoff Area=0.507 ac 69.43% Impervious Runoff Depth=6.24"
Tc=12.0 min CN=WQ Runoff=4.02 cfs 0.264 af

Subcatchment4S: 4S Runoff Area=9.003 ac 34.97% Impervious Runoff Depth=4.89"
Tc=12.0 min CN=WQ Runoff=58.38 cfs 3.665 af

Subcatchment5S: 5S Runoff Area=28.318 ac 47.45% Impervious Runoff Depth=5.32"
Tc=12.0 min CN=WQ Runoff=194.97 cfs 12.553 af

Subcatchment5S_100: 5S_100 Runoff Area=0.289 ac 46.02% Impervious Runoff Depth=5.59"
Tc=12.0 min CN=WQ Runoff=2.12 cfs 0.135 af

Subcatchment1000: 1000 Runoff Area=0.038 ac 36.84% Impervious Runoff Depth=5.34"
Flow Length=115' Slope=0.0170 '/' Tc=12.3 min CN=WQ Runoff=0.27 cfs 0.017 af

SubcatchmentA10: A10 Runoff Area=0.830 ac 22.77% Impervious Runoff Depth=4.95"
Tc=12.0 min CN=WQ Runoff=5.61 cfs 0.342 af

SubcatchmentA10_100: A10_100 Runoff Area=0.034 ac 100.00% Impervious Runoff Depth=7.08"
Tc=12.0 min CN=98 Runoff=0.30 cfs 0.020 af

SubcatchmentA15: A15 Runoff Area=0.669 ac 25.11% Impervious Runoff Depth=5.02"
Tc=12.0 min CN=WQ Runoff=4.56 cfs 0.280 af

SubcatchmentA15_100: A15_100 Runoff Area=0.027 ac 100.00% Impervious Runoff Depth=7.08"
Tc=12.0 min CN=98 Runoff=0.24 cfs 0.016 af

SubcatchmentA8: A8 Runoff Area=0.095 ac 10.53% Impervious Runoff Depth=4.61"
Tc=12.0 min CN=WQ Runoff=0.61 cfs 0.037 af

SubcatchmentA9: A9 Runoff Area=0.671 ac 21.61% Impervious Runoff Depth=4.92"
Tc=12.0 min CN=WQ Runoff=4.52 cfs 0.275 af

SubcatchmentB5: B5 Runoff Area=0.552 ac 7.25% Impervious Runoff Depth=4.49"
Tc=12.0 min CN=WQ Runoff=3.50 cfs 0.207 af

SubcatchmentB6: B6 Runoff Area=1.508 ac 9.28% Impervious Runoff Depth=4.58"
Tc=12.0 min CN=WQ Runoff=9.69 cfs 0.575 af

SubcatchmentB7: B7 Runoff Area=0.782 ac 10.23% Impervious Runoff Depth=4.60"
Tc=12.0 min CN=WQ Runoff=5.04 cfs 0.300 af

SubcatchmentB7_100: B7_100 Runoff Area=0.211 ac 29.86% Impervious Runoff Depth=5.15"
Tc=12.0 min CN=WQ Runoff=1.46 cfs 0.090 af

SubcatchmentB8: B8 Runoff Area=1.110 ac 17.84% Impervious Runoff Depth=4.80"
Tc=12.0 min CN=WQ Runoff=7.35 cfs 0.444 af

SubcatchmentB8_100: B8_100 Runoff Area=0.030 ac 90.00% Impervious Runoff Depth=6.80"
Tc=12.0 min CN=WQ Runoff=0.25 cfs 0.017 af

SubcatchmentC10: C10 Runoff Area=1.314 ac 2.74% Impervious Runoff Depth=4.40"
Tc=12.0 min CN=WQ Runoff=8.23 cfs 0.482 af

SubcatchmentC10_100: C10_100 Runoff Area=0.546 ac 59.71% Impervious Runoff Depth=5.97"
Tc=12.0 min CN=WQ Runoff=4.20 cfs 0.272 af

SubcatchmentC6: C6 Runoff Area=0.839 ac 1.31% Impervious Runoff Depth=4.36"
Tc=12.0 min CN=WQ Runoff=5.23 cfs 0.305 af

SubcatchmentC7: C7 Runoff Area=1.079 ac 1.67% Impervious Runoff Depth=4.37"
Tc=12.0 min CN=WQ Runoff=6.73 cfs 0.393 af

SubcatchmentC7_100: C7_100 Runoff Area=0.268 ac 62.31% Impervious Runoff Depth=6.04"
Flow Length=300' Slope=0.0870 '/' Tc=13.8 min CN=WQ Runoff=1.95 cfs 0.135 af

SubcatchmentC8: C8 Runoff Area=1.457 ac 9.47% Impervious Runoff Depth=4.58"
Tc=12.0 min CN=WQ Runoff=9.37 cfs 0.557 af

SubcatchmentC8_100: C8_100 Runoff Area=0.470 ac 62.77% Impervious Runoff Depth=6.05"
Flow Length=300' Slope=0.0870 '/' Tc=13.8 min CN=WQ Runoff=3.43 cfs 0.237 af

SubcatchmentC9: C9 Runoff Area=1.762 ac 7.49% Impervious Runoff Depth=4.53"
Tc=12.0 min CN=WQ Runoff=11.25 cfs 0.665 af

SubcatchmentC9_100: C9_100 Runoff Area=0.301 ac 65.12% Impervious Runoff Depth=6.12"
Tc=12.0 min CN=WQ Runoff=2.36 cfs 0.153 af

SubcatchmentD6: D6 Runoff Area=0.376 ac 3.46% Impervious Runoff Depth=4.42"
Tc=12.0 min CN=WQ Runoff=2.36 cfs 0.138 af

SubcatchmentD7: D7 Runoff Area=0.511 ac 11.94% Impervious Runoff Depth=4.65"
Tc=12.0 min CN=WQ Runoff=3.32 cfs 0.198 af

SubcatchmentD7_100: D7_100 Runoff Area=0.075 ac 56.00% Impervious Runoff Depth=5.87"
Tc=12.0 min CN=WQ Runoff=0.57 cfs 0.037 af

SubcatchmentD8: D8 Runoff Area=1.215 ac 7.98% Impervious Runoff Depth=4.54"
Tc=12.0 min CN=WQ Runoff=7.77 cfs 0.460 af

SubcatchmentD9: D9 Runoff Area=1.254 ac 16.11% Impervious Runoff Depth=4.77"
Tc=12.0 min CN=WQ Runoff=8.27 cfs 0.498 af

SubcatchmentE13: E13 Runoff Area=0.980 ac 25.31% Impervious Runoff Depth=5.02"
Tc=12.0 min CN=WQ Runoff=6.69 cfs 0.410 af

SubcatchmentE15: E15 Runoff Area=1.926 ac 26.90% Impervious Runoff Depth=5.06"
Tc=12.0 min CN=WQ Runoff=13.23 cfs 0.813 af

SubcatchmentE16: E16 Runoff Area=1.374 ac 25.84% Impervious Runoff Depth=5.03"
Tc=12.0 min CN=WQ Runoff=9.40 cfs 0.577 af

SubcatchmentE17: E17 Runoff Area=0.991 ac 20.48% Impervious Runoff Depth=4.89"
Tc=12.0 min CN=WQ Runoff=6.65 cfs 0.404 af

SubcatchmentE18: E18 Runoff Area=1.734 ac 9.86% Impervious Runoff Depth=4.59"
Tc=12.0 min CN=WQ Runoff=11.17 cfs 0.664 af

SubcatchmentF5: F5 Runoff Area=1.224 ac 21.24% Impervious Runoff Depth=4.91"
Tc=12.0 min CN=WQ Runoff=8.23 cfs 0.501 af

SubcatchmentF6: F6 Runoff Area=0.921 ac 21.06% Impervious Runoff Depth=4.90"
Tc=12.0 min CN=WQ Runoff=6.19 cfs 0.376 af

SubcatchmentF7: F7 Runoff Area=0.667 ac 11.69% Impervious Runoff Depth=4.64"
Tc=12.0 min CN=WQ Runoff=4.33 cfs 0.258 af

SubcatchmentF8: F8 Runoff Area=1.906 ac 16.00% Impervious Runoff Depth=4.76"
Tc=12.0 min CN=WQ Runoff=12.57 cfs 0.757 af

SubcatchmentH5: H5 Runoff Area=2.168 ac 27.21% Impervious Runoff Depth=4.74"
Tc=12.0 min CN=WQ Runoff=13.84 cfs 0.856 af

SubcatchmentH6: H6 Runoff Area=1.008 ac 19.54% Impervious Runoff Depth=3.98"
Tc=12.0 min CN=WQ Runoff=5.45 cfs 0.334 af

SubcatchmentH7: H7 Runoff Area=1.176 ac 19.64% Impervious Runoff Depth=4.17"
Tc=12.0 min CN=WQ Runoff=6.67 cfs 0.408 af

SubcatchmentI7: I7 Runoff Area=0.783 ac 24.01% Impervious Runoff Depth=4.98"
Tc=12.0 min CN=WQ Runoff=5.32 cfs 0.325 af

SubcatchmentI7_100: I7_100 Runoff Area=0.485 ac 7.01% Impervious Runoff Depth=4.52"
Tc=12.0 min CN=WQ Runoff=3.09 cfs 0.183 af

SubcatchmentI8: I8 Runoff Area=1.003 ac 25.12% Impervious Runoff Depth=5.02"
Tc=12.0 min CN=WQ Runoff=6.84 cfs 0.419 af

SubcatchmentI8_100: I8_100 Runoff Area=0.170 ac 25.88% Impervious Runoff Depth=5.04"
Tc=12.0 min CN=WQ Runoff=1.16 cfs 0.071 af

SubcatchmentI9: I9 Runoff Area=0.256 ac 27.73% Impervious Runoff Depth=5.09"
Tc=12.0 min CN=WQ Runoff=1.76 cfs 0.109 af

SubcatchmentJ3: J3 Runoff Area=1.496 ac 20.32% Impervious Runoff Depth=4.88"
Tc=12.0 min CN=WQ Runoff=10.03 cfs 0.609 af

SubcatchmentJ4: J4 Runoff Area=0.310 ac 0.00% Impervious Runoff Depth=4.32"
Tc=12.0 min CN=74 Runoff=1.92 cfs 0.112 af

SubcatchmentJ5: J5 Runoff Area=0.683 ac 17.72% Impervious Runoff Depth=4.81"
Tc=12.0 min CN=WQ Runoff=4.53 cfs 0.274 af

SubcatchmentL10: L10 Runoff Area=1.158 ac 17.53% Impervious Runoff Depth=4.81"
Tc=12.0 min CN=WQ Runoff=7.68 cfs 0.464 af

SubcatchmentL4: L4 Runoff Area=0.167 ac 20.96% Impervious Runoff Depth=4.86"
Tc=12.0 min CN=WQ Runoff=1.11 cfs 0.068 af

SubcatchmentL5: L5 Runoff Area=0.763 ac 22.02% Impervious Runoff Depth=4.93"
Tc=12.0 min CN=WQ Runoff=5.15 cfs 0.313 af

SubcatchmentL6: L6 Runoff Area=1.091 ac 19.98% Impervious Runoff Depth=4.87"
Tc=12.0 min CN=WQ Runoff=7.30 cfs 0.443 af

SubcatchmentL7: L7 Runoff Area=0.759 ac 21.21% Impervious Runoff Depth=4.91"
Tc=12.0 min CN=WQ Runoff=5.10 cfs 0.310 af

SubcatchmentL8: L8 Runoff Area=1.441 ac 22.07% Impervious Runoff Depth=4.73"
Tc=12.0 min CN=WQ Runoff=9.25 cfs 0.568 af

SubcatchmentL9: L9 Runoff Area=0.971 ac 21.11% Impervious Runoff Depth=4.89"
Tc=12.0 min CN=WQ Runoff=6.51 cfs 0.396 af

SubcatchmentO10: O10 Runoff Area=0.609 ac 15.44% Impervious Runoff Depth=4.75"
Tc=12.0 min CN=WQ Runoff=4.01 cfs 0.241 af

SubcatchmentO8: O8 Runoff Area=0.490 ac 12.24% Impervious Runoff Depth=4.66"
Tc=12.0 min CN=WQ Runoff=3.19 cfs 0.190 af

SubcatchmentO9: O9 Runoff Area=1.143 ac 19.86% Impervious Runoff Depth=4.87"
Tc=12.0 min CN=WQ Runoff=7.65 cfs 0.464 af

SubcatchmentW6: W6 Runoff Area=10.080 ac 10.00% Impervious Runoff Depth=4.57"
Flow Length=780' Tc=27.0 min CN=WQ Runoff=43.09 cfs 3.843 af

SubcatchmentW6_100: W6_100 Runoff Area=0.217 ac 0.00% Impervious Runoff Depth=4.26"
Flow Length=550' Tc=42.4 min CN=WQ Runoff=0.67 cfs 0.077 af

SubcatchmentW6_101: W6_101 Runoff Area=2.257 ac 13.16% Impervious Runoff Depth=4.66"
Flow Length=605' Tc=19.1 min CN=WQ Runoff=11.76 cfs 0.877 af

SubcatchmentW6_102: W6_102 Runoff Area=0.261 ac 0.00% Impervious Runoff Depth=4.32"
Tc=15.5 min CN=74 Runoff=1.43 cfs 0.094 af

SubcatchmentW9: W9 Runoff Area=1.787 ac 12.14% Impervious Runoff Depth=4.65"
Tc=12.0 min CN=WQ Runoff=11.59 cfs 0.692 af

SubcatchmentW9_100: W9_100 Runoff Area=2.497 ac 22.31% Impervious Runoff Depth=4.94"
Flow Length=1,013' Tc=34.0 min CN=WQ Runoff=9.85 cfs 1.027 af

SubcatchmentW9_101: W9_101 Runoff Area=0.539 ac 49.17% Impervious Runoff Depth=5.68"
Flow Length=300' Slope=0.0570 '/' Tc=16.4 min CN=WQ Runoff=3.49 cfs 0.255 af

Reach 1R: Bassett Creek Watershed Inflow=109.64 cfs 52.379 af
Outflow=109.64 cfs 52.379 af

Reach 5R: Elm Creek Watershed Inflow=18.76 cfs 3.480 af
Outflow=18.76 cfs 3.480 af

Reach 8R: Offsite Inflow=0.27 cfs 0.017 af
Outflow=0.27 cfs 0.017 af

Reach Wetland: Wetland 6 Inflow=109.52 cfs 52.362 af
Outflow=109.52 cfs 52.362 af

Pond 4P: CB_22 pipe Peak Elev=973.67' Inflow=16.30 cfs 5.793 af
Outflow=16.30 cfs 5.793 af

Pond CB_A10: CB_A10 Peak Elev=996.48' Storage=194 cf Inflow=7.61 cfs 0.467 af
Outflow=7.58 cfs 0.467 af

Pond CB_A15: CB_A15 Peak Elev=998.26' Storage=103 cf Inflow=4.80 cfs 0.296 af
Primary=3.08 cfs 0.191 af Secondary=1.71 cfs 0.105 af Outflow=4.79 cfs 0.296 af

Pond CB_A8: CB_A8 Peak Elev=1,002.09' Storage=10 cf Inflow=0.61 cfs 0.037 af
Primary=0.61 cfs 0.037 af Secondary=0.00 cfs 0.000 af Outflow=0.61 cfs 0.037 af

Pond CB_A9: CB_A9 Peak Elev=1,002.31' Storage=1,307 cf Inflow=4.52 cfs 0.275 af
Primary=3.98 cfs 0.275 af Secondary=0.00 cfs 0.000 af Outflow=3.98 cfs 0.275 af

Pond CB_B5: CB_B5 Peak Elev=996.28' Storage=89 cf Inflow=3.50 cfs 0.207 af
Primary=3.48 cfs 0.207 af Secondary=0.00 cfs 0.000 af Outflow=3.48 cfs 0.207 af

Pond CB_B6: CB_B6 Peak Elev=994.64' Storage=468 cf Inflow=12.00 cfs 0.714 af
Primary=11.88 cfs 0.714 af Secondary=0.00 cfs 0.000 af Outflow=11.88 cfs 0.714 af

Pond CB_B7: CB_B7 Peak Elev=998.32' Storage=401 cf Inflow=6.51 cfs 0.391 af
Primary=4.15 cfs 0.252 af Secondary=2.32 cfs 0.139 af Outflow=6.47 cfs 0.390 af

Pond CB_B8: CB_B8 Peak Elev=995.98' Storage=74 cf Inflow=7.60 cfs 0.461 af
Primary=7.60 cfs 0.461 af Secondary=0.00 cfs 0.000 af Outflow=7.60 cfs 0.461 af

Pond CB_C10: CB_C10 Peak Elev=994.66' Storage=321 cf Inflow=12.43 cfs 0.753 af
Primary=12.38 cfs 0.753 af Secondary=0.00 cfs 0.000 af Outflow=12.38 cfs 0.753 af

Pond CB_C6: CB_C6 Peak Elev=993.37' Storage=133 cf Inflow=5.23 cfs 0.305 af
Primary=5.21 cfs 0.305 af Secondary=0.00 cfs 0.000 af Outflow=5.21 cfs 0.305 af

Pond CB_C7: CB_C7 Peak Elev=993.52' Storage=338 cf Inflow=8.67 cfs 0.528 af
Primary=8.59 cfs 0.528 af Secondary=0.00 cfs 0.000 af Outflow=8.59 cfs 0.528 af

Pond CB_C8: CB_C8 Peak Elev=991.67' Storage=206 cf Inflow=12.77 cfs 0.794 af
Outflow=12.76 cfs 0.794 af

Pond CB_C9: CB_C9 Peak Elev=992.70' Storage=566 cf Inflow=13.60 cfs 0.818 af
Primary=13.45 cfs 0.818 af Secondary=0.00 cfs 0.000 af Outflow=13.45 cfs 0.818 af

Pond CB_D6: CB_D6 Peak Elev=1,000.22' Storage=95 cf Inflow=2.36 cfs 0.138 af
Primary=2.34 cfs 0.138 af Secondary=0.00 cfs 0.000 af Outflow=2.34 cfs 0.138 af

Pond CB_D7: CB_D7 Peak Elev=1,002.30' Storage=157 cf Inflow=3.89 cfs 0.235 af
Primary=3.85 cfs 0.235 af Secondary=0.00 cfs 0.000 af Outflow=3.85 cfs 0.235 af

Pond CB_D8: CB_D8 Peak Elev=1,002.48' Storage=465 cf Inflow=7.77 cfs 0.460 af
Primary=7.61 cfs 0.460 af Secondary=0.00 cfs 0.000 af Outflow=7.61 cfs 0.460 af

Pond CB_D9: CB_D9 Peak Elev=997.50' Storage=423 cf Inflow=8.27 cfs 0.498 af
Outflow=8.15 cfs 0.498 af

Pond CB_E13: CB_E13 Peak Elev=1,004.44' Storage=71 cf Inflow=6.69 cfs 0.410 af
Outflow=6.69 cfs 0.410 af

Pond CB_E15: CB_E15 Peak Elev=992.69' Storage=223 cf Inflow=13.23 cfs 0.813 af
Outflow=13.21 cfs 0.813 af

Pond CB_E16: CB_E16 Peak Elev=996.55' Storage=350 cf Inflow=9.40 cfs 0.577 af
Primary=9.32 cfs 0.577 af Secondary=0.00 cfs 0.000 af Outflow=9.32 cfs 0.577 af

Pond CB_E17: CB_E17 Peak Elev=1,002.43' Storage=312 cf Inflow=6.65 cfs 0.404 af
Primary=6.61 cfs 0.404 af Secondary=0.00 cfs 0.000 af Outflow=6.61 cfs 0.404 af

Pond CB_E18: CB_E18 Peak Elev=1,008.61' Storage=562 cf Inflow=11.17 cfs 0.664 af
Primary=11.13 cfs 0.663 af Secondary=0.00 cfs 0.000 af Outflow=11.13 cfs 0.663 af

Pond CB_F5: CB_F5 Peak Elev=983.60' Storage=450 cf Inflow=10.80 cfs 0.738 af
Outflow=10.69 cfs 0.738 af

Pond CB_F6: CB_F6 Peak Elev=986.29' Storage=26 cf Inflow=6.19 cfs 0.376 af
Primary=3.62 cfs 0.139 af Secondary=2.57 cfs 0.237 af Outflow=6.19 cfs 0.376 af

Pond CB_F7: CB_F7 Peak Elev=986.83' Storage=78 cf Inflow=4.33 cfs 0.258 af
Primary=4.32 cfs 0.258 af Secondary=0.00 cfs 0.000 af Outflow=4.32 cfs 0.258 af

Pond CB_F8: CB_F8 Peak Elev=989.66' Storage=375 cf Inflow=12.57 cfs 0.757 af
Primary=12.50 cfs 0.757 af Secondary=0.00 cfs 0.000 af Outflow=12.50 cfs 0.757 af

Pond CB_H5: CB_H5 Peak Elev=972.70' Storage=610 cf Inflow=13.84 cfs 0.856 af
Outflow=13.67 cfs 0.856 af

Pond CB_H6: CB_H6 Peak Elev=973.37' Storage=373 cf Inflow=5.45 cfs 0.334 af
Primary=5.30 cfs 0.334 af Secondary=0.00 cfs 0.000 af Outflow=5.30 cfs 0.334 af

Pond CB_H7: CB_H7 Peak Elev=974.42' Storage=1,045 cf Inflow=6.67 cfs 0.408 af
Primary=6.40 cfs 0.408 af Secondary=0.00 cfs 0.000 af Outflow=6.40 cfs 0.408 af

Pond CB_I7: CB_I7 Peak Elev=985.51' Storage=264 cf Inflow=8.41 cfs 0.508 af
Primary=8.36 cfs 0.508 af Secondary=0.00 cfs 0.000 af Outflow=8.36 cfs 0.508 af

Pond CB_I8: CB_I8 Peak Elev=987.49' Storage=119 cf Inflow=8.01 cfs 0.491 af
Primary=8.00 cfs 0.491 af Secondary=0.00 cfs 0.000 af Outflow=8.00 cfs 0.491 af

Pond CB_I9: CB_I9 Peak Elev=978.18' Storage=17 cf Inflow=1.76 cfs 0.109 af
Primary=1.76 cfs 0.109 af Secondary=0.00 cfs 0.000 af Outflow=1.76 cfs 0.109 af

Pond CB_J3: CB_J3 Peak Elev=991.57' Storage=233 cf Inflow=10.03 cfs 0.609 af
Primary=10.00 cfs 0.609 af Secondary=0.00 cfs 0.000 af Outflow=10.00 cfs 0.609 af

Pond CB_J4: CB_J4 Peak Elev=994.19' Storage=31 cf Inflow=1.92 cfs 0.112 af
Primary=1.92 cfs 0.112 af Secondary=0.00 cfs 0.000 af Outflow=1.92 cfs 0.112 af

Pond CB_J5: CB_J5 Peak Elev=997.34' Storage=79 cf Inflow=4.53 cfs 0.274 af
Primary=4.53 cfs 0.274 af Secondary=0.00 cfs 0.000 af Outflow=4.53 cfs 0.274 af

Pond CB_L10: CB_L10 Peak Elev=988.48' Storage=324 cf Inflow=7.68 cfs 0.464 af
Primary=7.66 cfs 0.464 af Secondary=0.00 cfs 0.000 af Outflow=7.66 cfs 0.464 af

Pond CB_L4: CB_L4 Peak Elev=978.13' Storage=19 cf Inflow=1.11 cfs 0.068 af
Primary=1.11 cfs 0.068 af Secondary=0.00 cfs 0.000 af Outflow=1.11 cfs 0.068 af

Pond CB_L5: CB_L5 Peak Elev=977.96' Storage=166 cf Inflow=7.27 cfs 0.471 af
Primary=7.25 cfs 0.471 af Secondary=0.00 cfs 0.000 af Outflow=7.25 cfs 0.471 af

Pond CB_L6: CB_L6 Peak Elev=978.32' Storage=2,142 cf Inflow=7.30 cfs 0.443 af
Primary=4.13 cfs 0.286 af Secondary=2.31 cfs 0.157 af Outflow=6.44 cfs 0.443 af

Pond CB_L7: CB_L7 Peak Elev=979.36' Storage=107 cf Inflow=5.10 cfs 0.310 af
Primary=5.09 cfs 0.310 af Secondary=0.00 cfs 0.000 af Outflow=5.09 cfs 0.310 af

Pond CB_L8: CB_L8 Peak Elev=980.53' Storage=817 cf Inflow=9.25 cfs 0.568 af
Primary=8.87 cfs 0.568 af Secondary=0.00 cfs 0.000 af Outflow=8.87 cfs 0.568 af

Pond CB_L9: CB_L9 Peak Elev=982.43' Storage=246 cf Inflow=6.51 cfs 0.396 af
Primary=6.46 cfs 0.396 af Secondary=0.00 cfs 0.000 af Outflow=6.46 cfs 0.396 af

Pond CB_O10: CB_O10 Peak Elev=978.31' Storage=140 cf Inflow=4.01 cfs 0.241 af
Primary=3.98 cfs 0.241 af Secondary=0.00 cfs 0.000 af Outflow=3.98 cfs 0.241 af

Pond CB_O8: CB_O8 Peak Elev=975.77' Storage=38 cf Inflow=3.19 cfs 0.190 af
Primary=3.18 cfs 0.190 af Secondary=0.00 cfs 0.000 af Outflow=3.18 cfs 0.190 af

Pond CB_O9: CB_O9 Peak Elev=978.48' Storage=189 cf Inflow=7.65 cfs 0.464 af
Primary=7.62 cfs 0.464 af Secondary=0.00 cfs 0.000 af Outflow=7.62 cfs 0.464 af

Pond P1N: Pond 1N Peak Elev=1,010.79' Storage=234,435 cf Inflow=36.95 cfs 2.310 af
Primary=3.97 cfs 1.806 af Secondary=0.00 cfs 0.000 af Outflow=3.97 cfs 1.806 af

Pond P1S: Pond 1S Peak Elev=970.72' Storage=610,921 cf Inflow=180.38 cfs 39.043 af
Primary=37.16 cfs 38.724 af Secondary=0.00 cfs 0.000 af Outflow=37.16 cfs 38.724 af

Pond P2S: Pond 2S Peak Elev=971.90' Storage=144,315 cf Inflow=62.16 cfs 8.763 af
Primary=25.74 cfs 8.748 af Secondary=0.00 cfs 0.000 af Outflow=25.74 cfs 8.748 af

Pond P3S: Pond 3S Peak Elev=976.11' Storage=261,057 cf Inflow=90.84 cfs 5.714 af
Primary=15.93 cfs 5.684 af Secondary=0.00 cfs 0.000 af Outflow=15.93 cfs 5.684 af

Pond P4S: Pond 4S Peak Elev=971.32' Storage=209,359 cf Inflow=156.12 cfs 31.150 af
Primary=67.95 cfs 31.069 af Secondary=0.00 cfs 0.000 af Outflow=67.95 cfs 31.069 af

Pond P5S: Pond 5S Peak Elev=981.43' Storage=1,567,031 cf Inflow=359.49 cfs 22.685 af
Primary=17.41 cfs 22.136 af Secondary=0.00 cfs 0.000 af Outflow=17.41 cfs 22.136 af

Pond Wetland 9: Wetland 9 Peak Elev=1,010.51' Storage=28,076 cf Inflow=20.41 cfs 3.781 af
Outflow=18.76 cfs 3.480 af

Total Runoff Area = 136.736 ac Runoff Volume = 57.657 af Average Runoff Depth = 5.06"
68.45% Pervious = 93.594 ac 31.55% Impervious = 43.142 ac

Summary for Subcatchment 1N: 1N

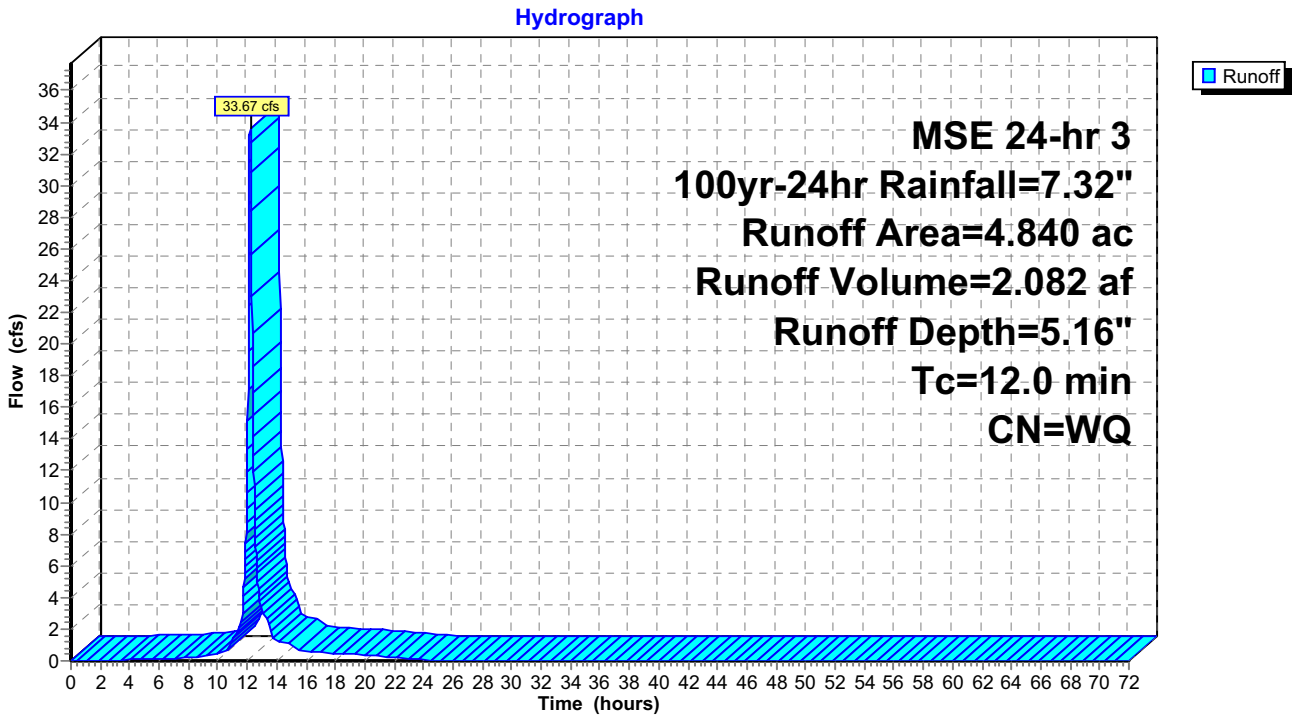
Runoff = 33.67 cfs @ 12.20 hrs, Volume= 2.082 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.646	98	Impervious
	3.366	74	>75% Grass cover, Good, HSG C
*	0.828	98	Pond
	4.840		Weighted Average
	3.366		69.55% Pervious Area
	1.474		30.45% Impervious Area

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

Subcatchment 1N: 1N



Summary for Subcatchment 1N_100: 1N_100

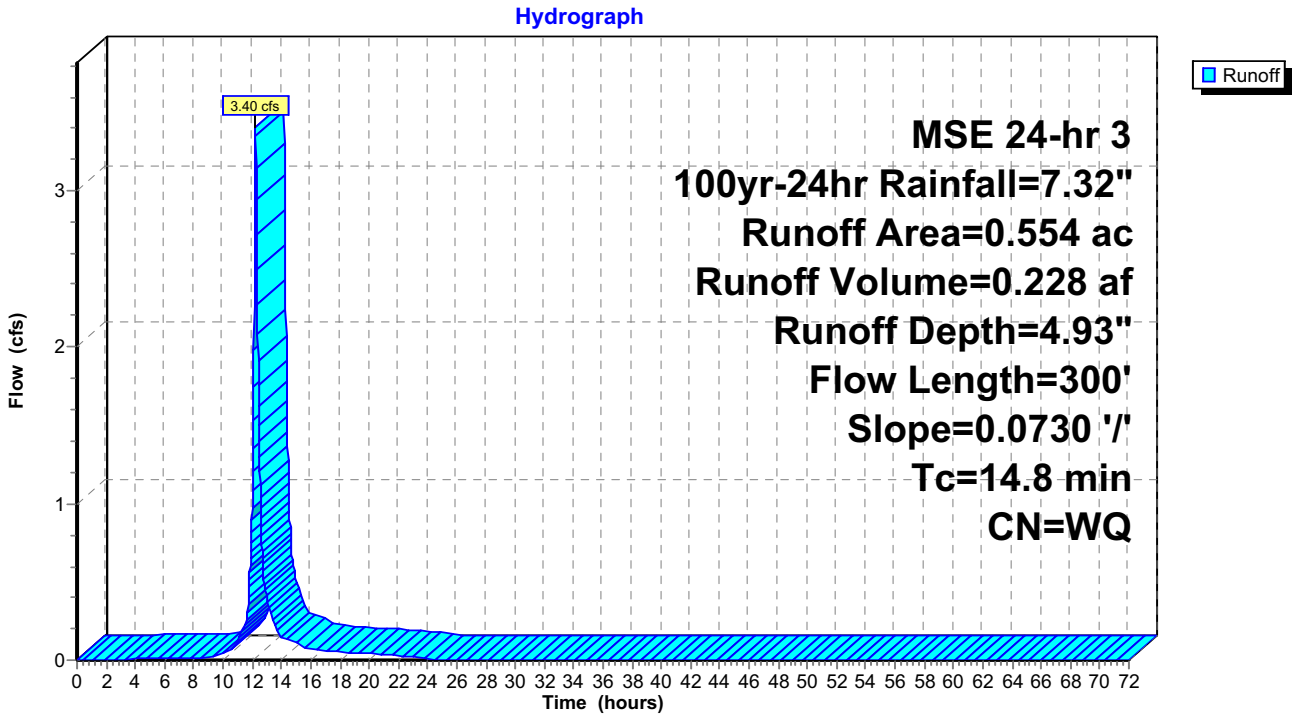
Runoff = 3.40 cfs @ 12.23 hrs, Volume= 0.228 af, Depth= 4.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.318	74	>75% Grass cover, Good, HSG C
*	0.126	98	Impervious
	0.110	73	Woods, Fair, HSG C
	0.554		Weighted Average
	0.428		77.26% Pervious Area
	0.126		22.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.8	300	0.0730	0.34		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment 1N_100: 1N_100



Summary for Subcatchment 1S: 1S

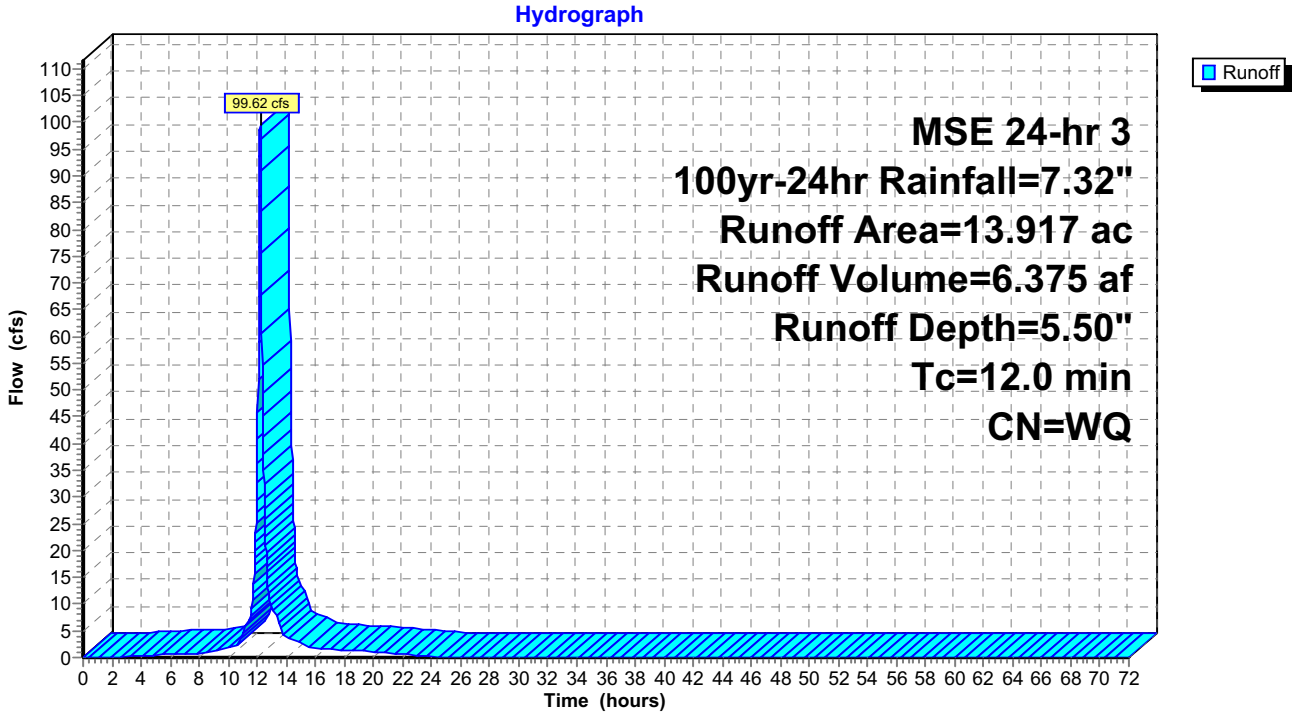
Runoff = 99.62 cfs @ 12.20 hrs, Volume= 6.375 af, Depth= 5.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	5.037	98	Impervious
	1.856	61	>75% Grass cover, Good, HSG B
	3.783	74	>75% Grass cover, Good, HSG C
	1.419	74	>75% Grass cover, Good, HSG C
*	1.822	98	Pond
	13.917		Weighted Average
	7.058		50.71% Pervious Area
	6.859		49.29% Impervious Area

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

Subcatchment 1S: 1S



Summary for Subcatchment 2S: 2S

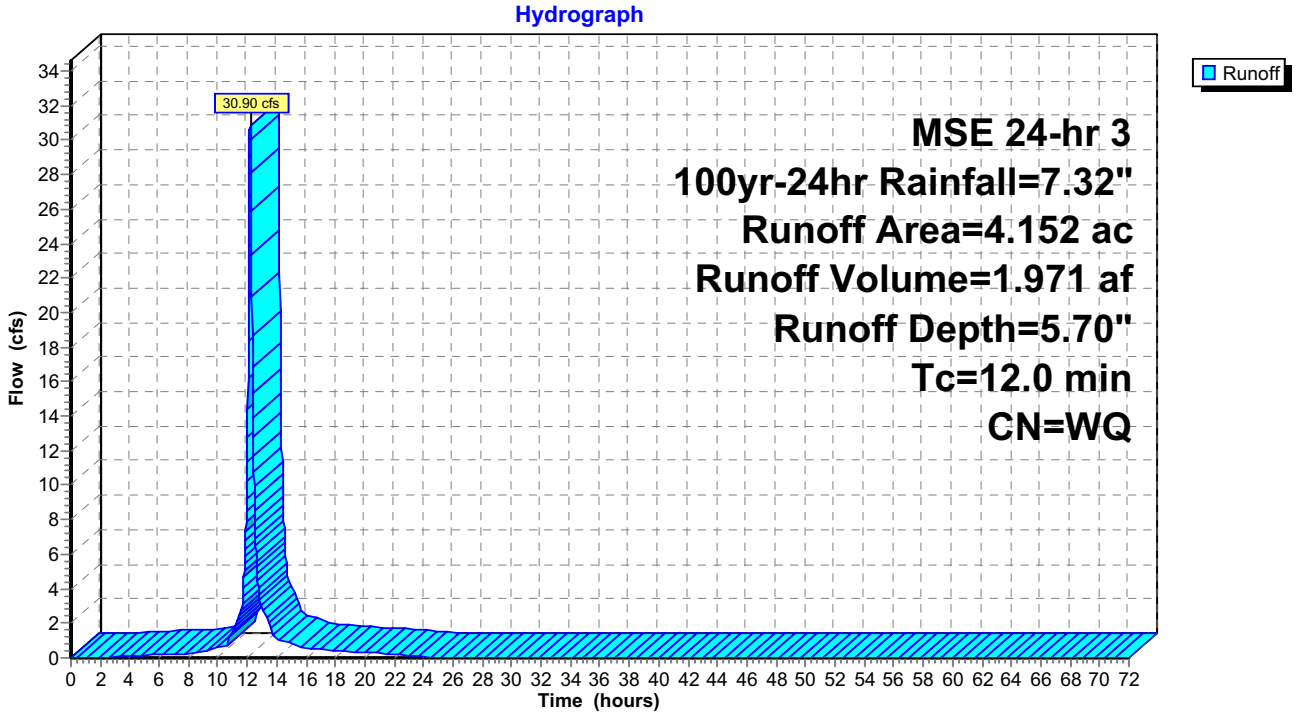
Runoff = 30.90 cfs @ 12.20 hrs, Volume= 1.971 af, Depth= 5.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	1.594	98	Impervious
	2.082	74	>75% Grass cover, Good, HSG C
*	0.476	98	Pond
	4.152		Weighted Average
	2.082		50.14% Pervious Area
	2.070		49.86% Impervious Area

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

Subcatchment 2S: 2S



Summary for Subcatchment 3S: 3S

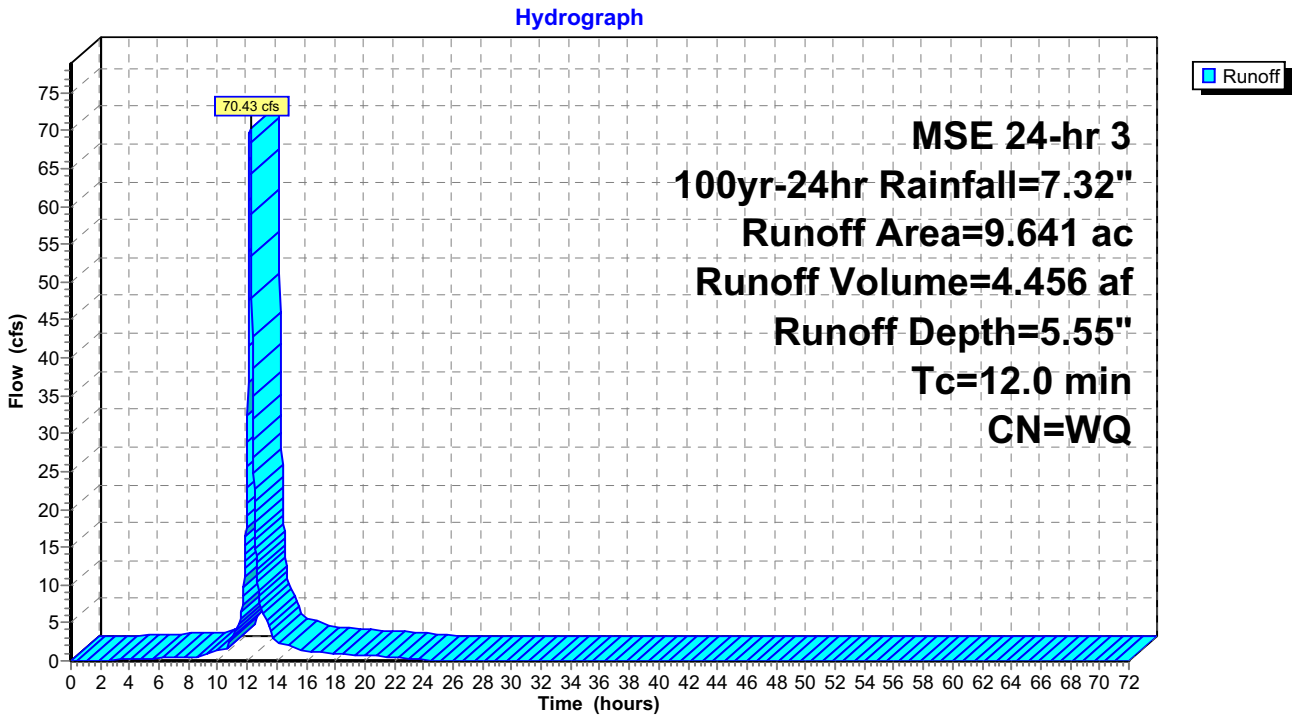
Runoff = 70.43 cfs @ 12.20 hrs, Volume= 4.456 af, Depth= 5.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	3.484	98	Impervious
	5.363	74	>75% Grass cover, Good, HSG C
*	0.794	98	Pond
	9.641		Weighted Average
	5.363		55.63% Pervious Area
	4.278		44.37% Impervious Area

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

Subcatchment 3S: 3S



Summary for Subcatchment 3S_100: 3S_100

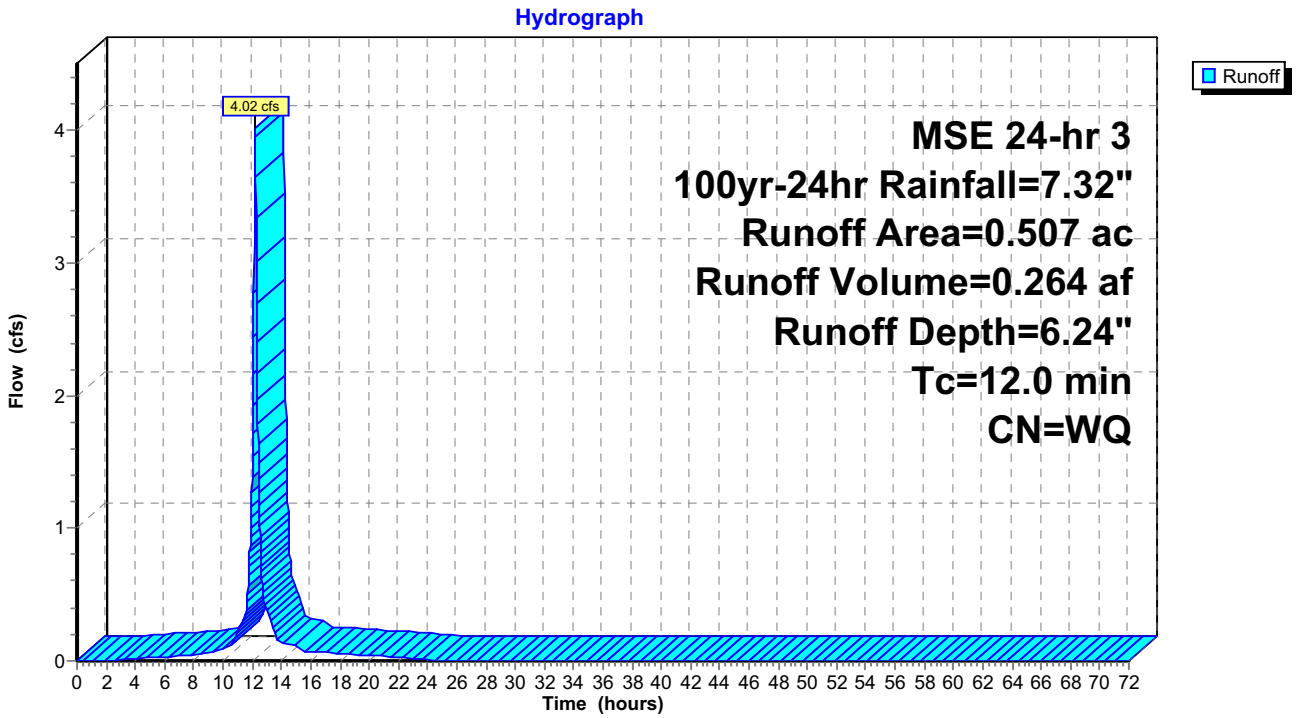
Runoff = 4.02 cfs @ 12.19 hrs, Volume= 0.264 af, Depth= 6.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.352	98	Impervious
	0.031	74	>75% Grass cover, Good, HSG C
	0.124	74	>75% Grass cover, Good, HSG C
	0.507		Weighted Average
	0.155		30.57% Pervious Area
	0.352		69.43% Impervious Area

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

Subcatchment 3S_100: 3S_100



Summary for Subcatchment 4S: 4S

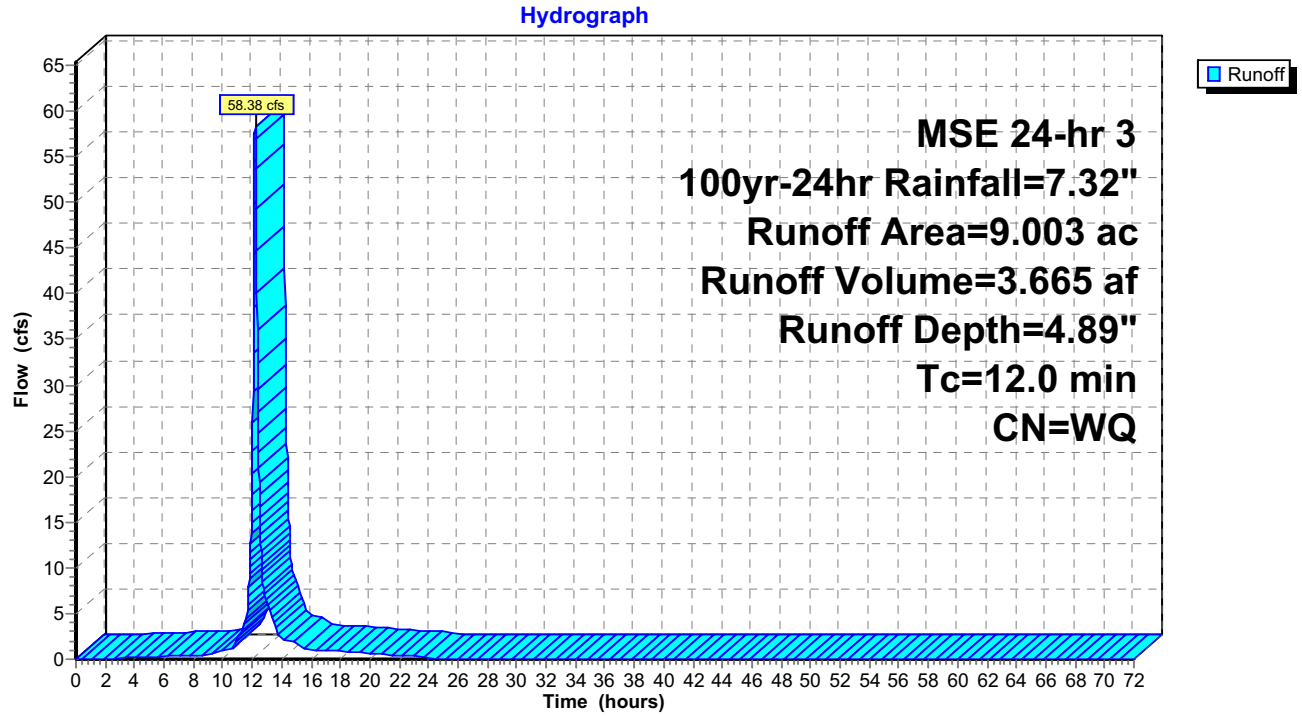
Runoff = 58.38 cfs @ 12.20 hrs, Volume= 3.665 af, Depth= 4.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	2.416	98	Impervious
	2.605	61	>75% Grass cover, Good, HSG B
	2.644	74	>75% Grass cover, Good, HSG C
	0.606	74	>75% Grass cover, Good, HSG C
*	0.680	98	Pond
*	0.052	98	Impervious
	9.003		Weighted Average
	5.855		65.03% Pervious Area
	3.148		34.97% Impervious Area

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

Subcatchment 4S: 4S



Summary for Subcatchment 5S: 5S

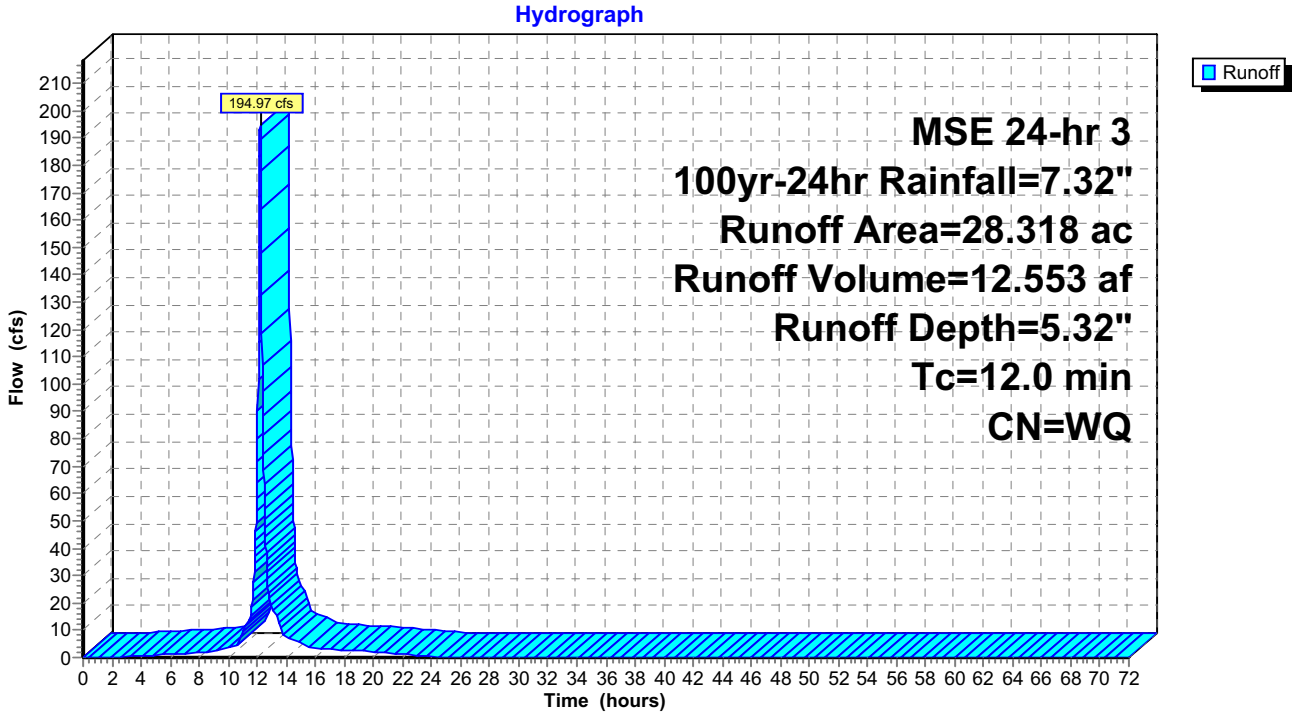
Runoff = 194.97 cfs @ 12.20 hrs, Volume= 12.553 af, Depth= 5.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	9.363	98	Impervious
	2.568	39	>75% Grass cover, Good, HSG A
	7.864	74	>75% Grass cover, Good, HSG C
	4.450	74	>75% Grass cover, Good, HSG C
*	4.073	98	Pond
	28.318		Weighted Average
	14.882		52.55% Pervious Area
	13.436		47.45% Impervious Area

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

Subcatchment 5S: 5S



Summary for Subcatchment 5S_100: 5S_100

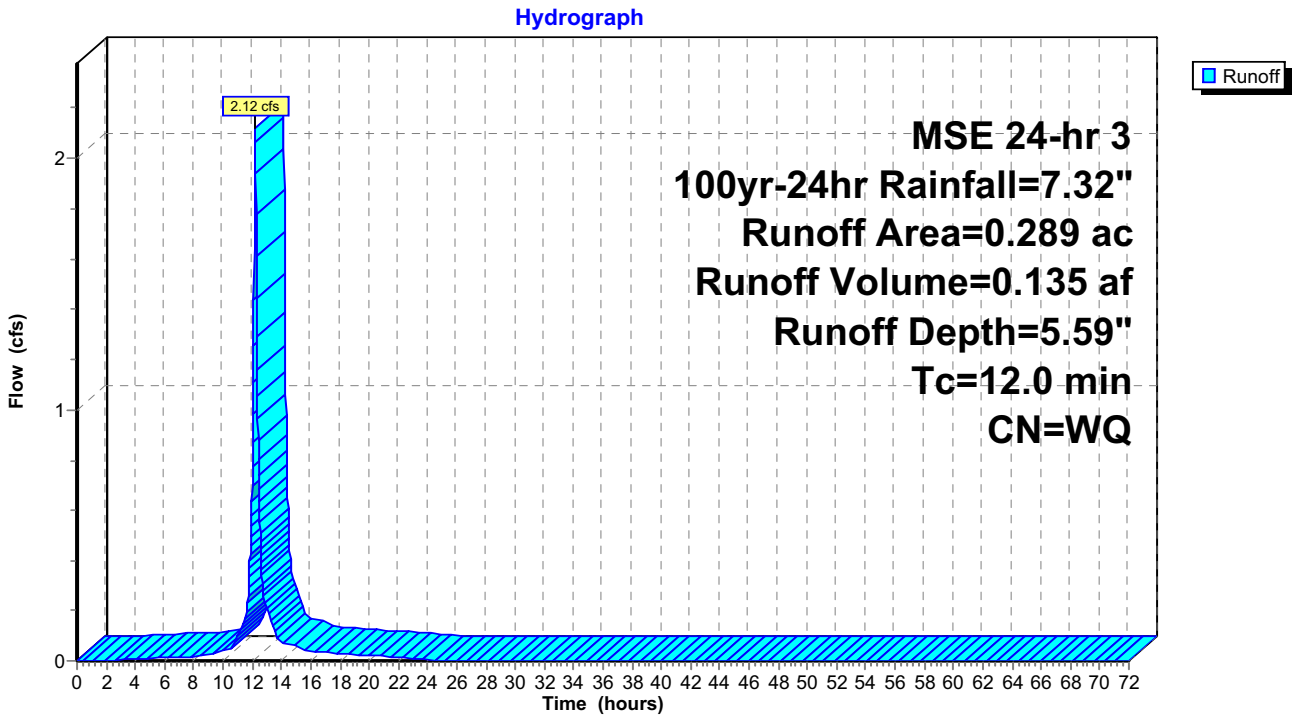
Runoff = 2.12 cfs @ 12.20 hrs, Volume= 0.135 af, Depth= 5.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.078	98	Impervious
	0.156	74	>75% Grass cover, Good, HSG C
*	0.055	98	Impervious
	0.289		Weighted Average
	0.156		53.98% Pervious Area
	0.133		46.02% Impervious Area

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

Subcatchment 5S_100: 5S_100



Summary for Subcatchment 1000: 1000

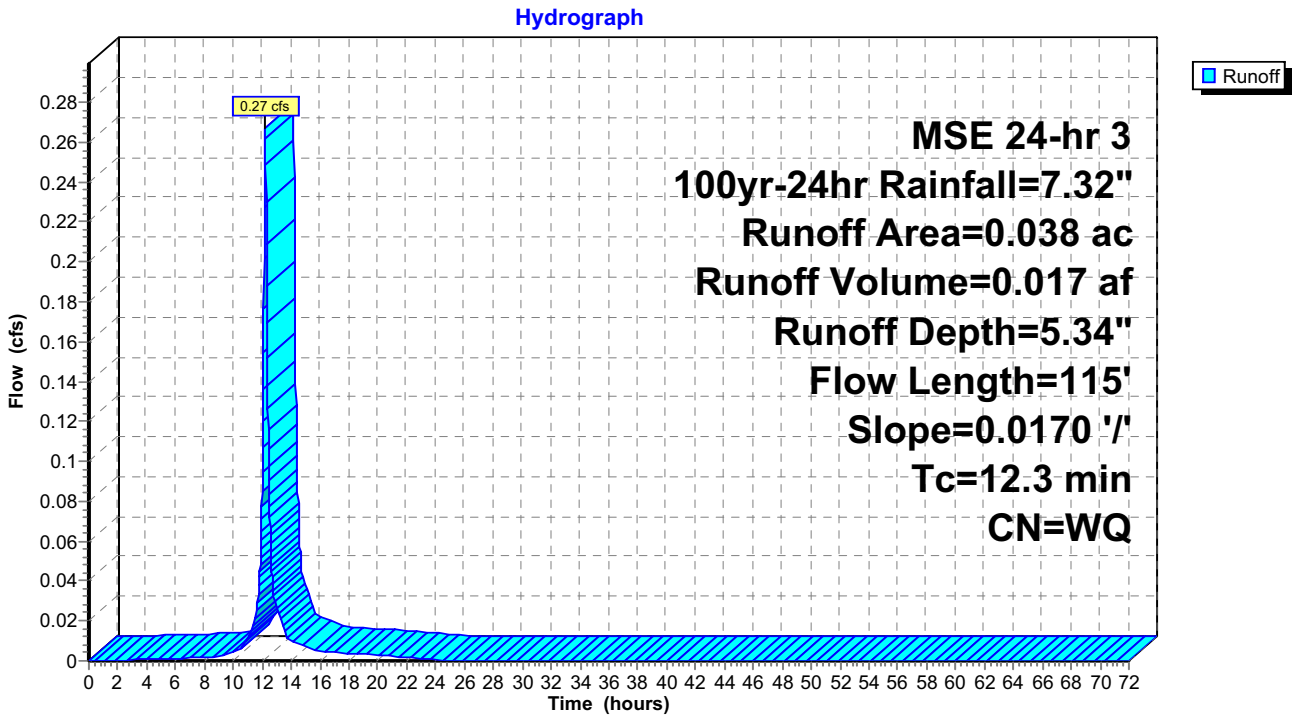
Runoff = 0.27 cfs @ 12.20 hrs, Volume= 0.017 af, Depth= 5.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.014	98	Impervious
	0.024	74	>75% Grass cover, Good, HSG C
	0.038		Weighted Average
	0.024		63.16% Pervious Area
	0.014		36.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	115	0.0170	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment 1000: 1000



Summary for Subcatchment A10: A10

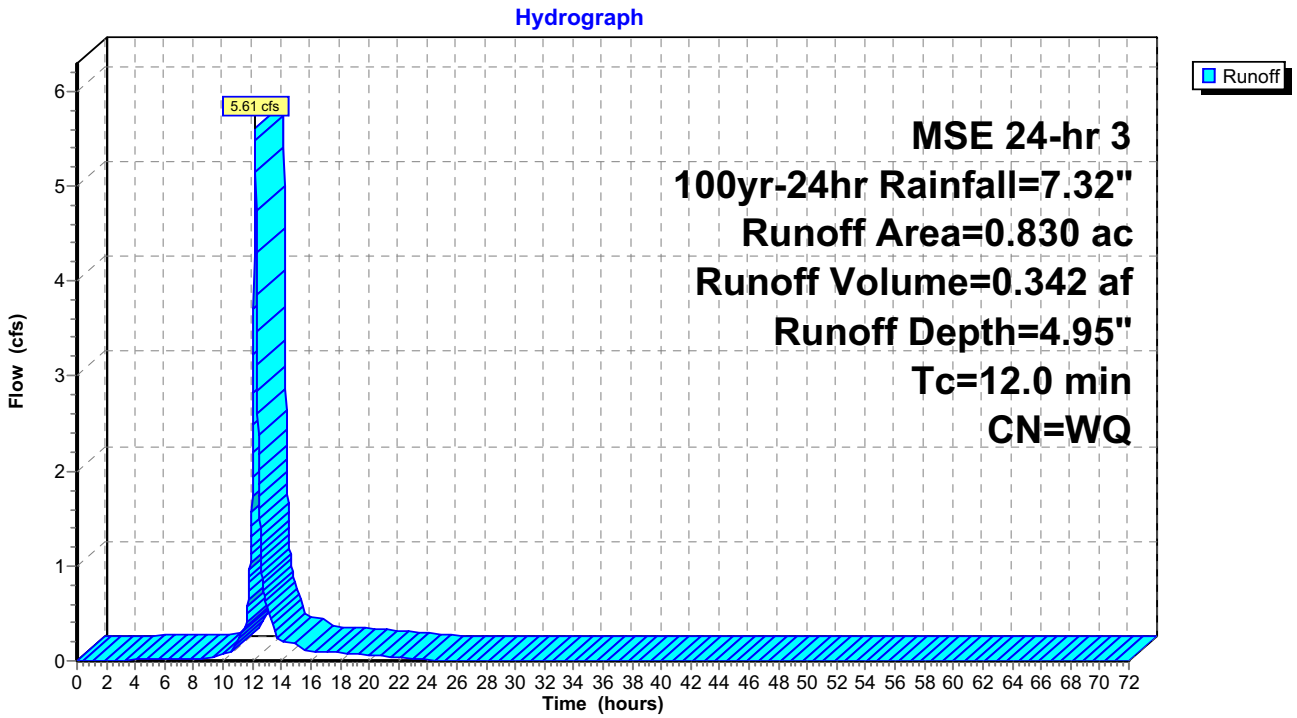
Runoff = 5.61 cfs @ 12.20 hrs, Volume= 0.342 af, Depth= 4.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.132	98	Impervious
	0.641	74	>75% Grass cover, Good, HSG C
*	0.057	98	Impervious
	0.830		Weighted Average
	0.641		77.23% Pervious Area
	0.189		22.77% Impervious Area

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

Subcatchment A10: A10



Summary for Subcatchment A10_100: A10_100

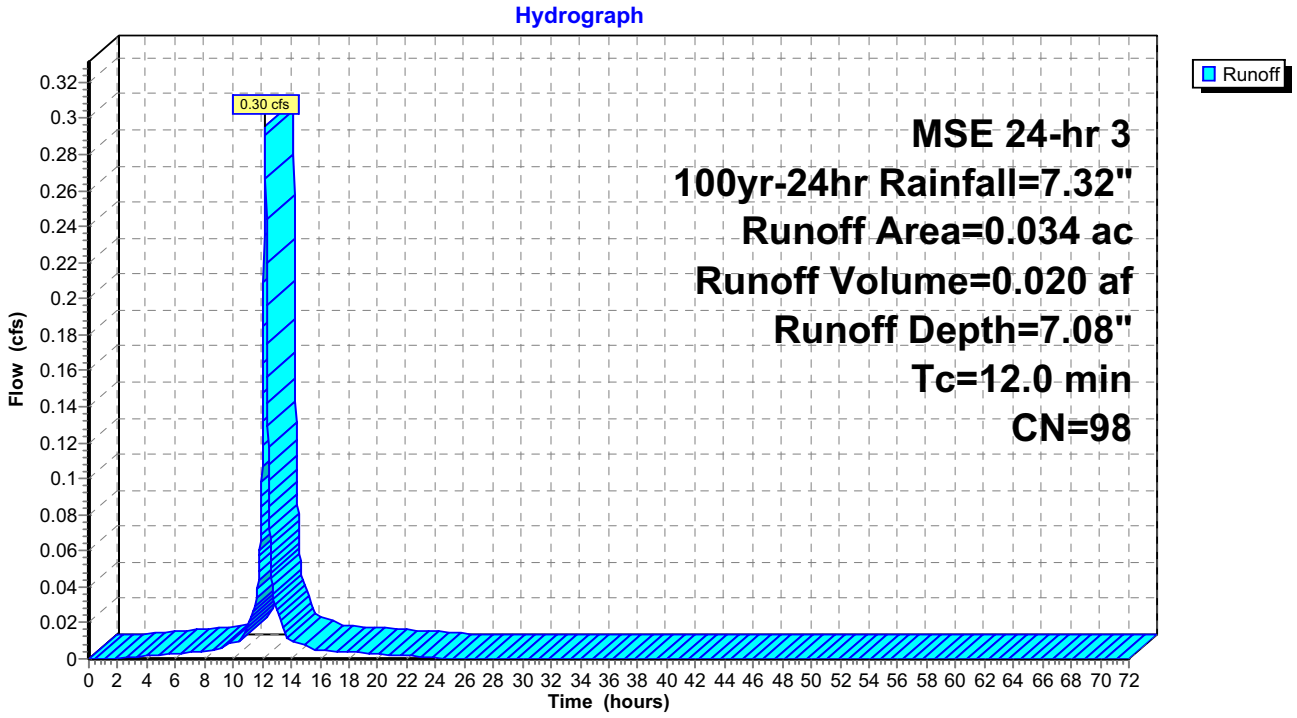
Runoff = 0.30 cfs @ 12.19 hrs, Volume= 0.020 af, Depth= 7.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.034	98	Impervious
	0.034		100.00% Impervious Area

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

Subcatchment A10_100: A10_100



Summary for Subcatchment A15: A15

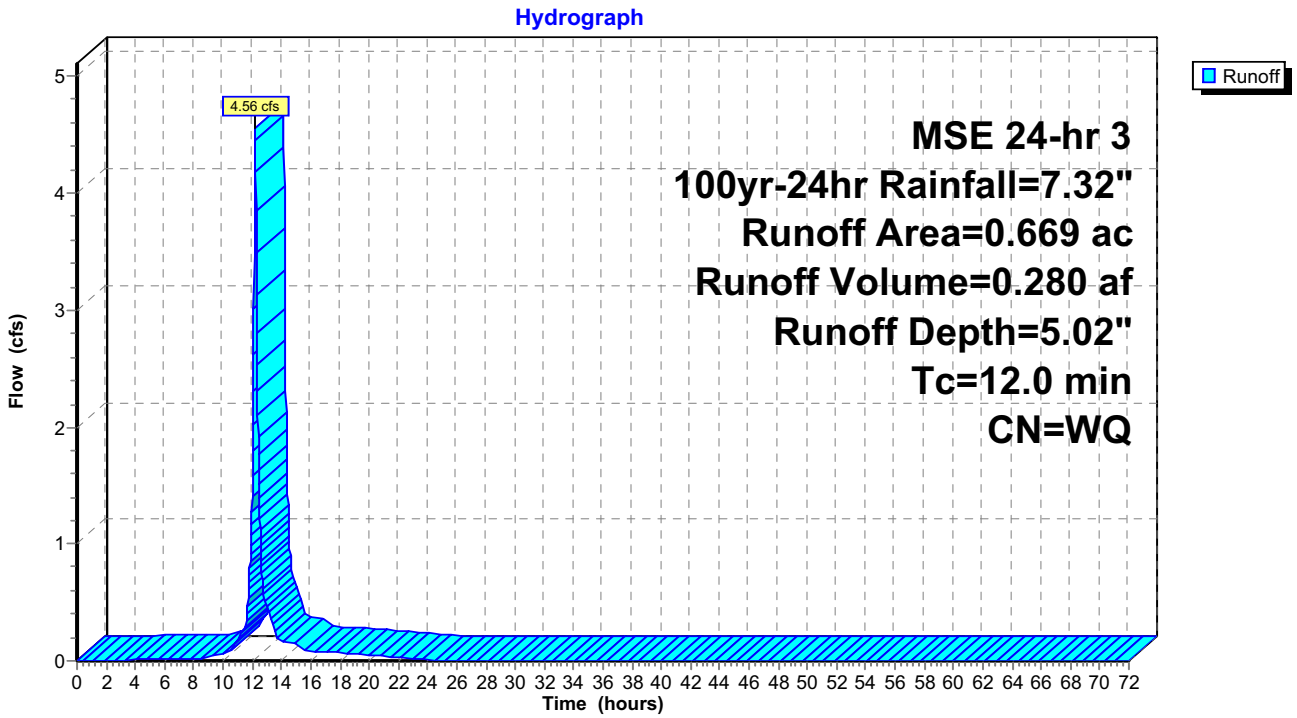
Runoff = 4.56 cfs @ 12.20 hrs, Volume= 0.280 af, Depth= 5.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.119	98	Impervious
	0.501	74	>75% Grass cover, Good, HSG C
*	0.049	98	Impervious
	0.669		Weighted Average
	0.501		74.89% Pervious Area
	0.168		25.11% Impervious Area

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

Subcatchment A15: A15



Summary for Subcatchment A15_100: A15_100

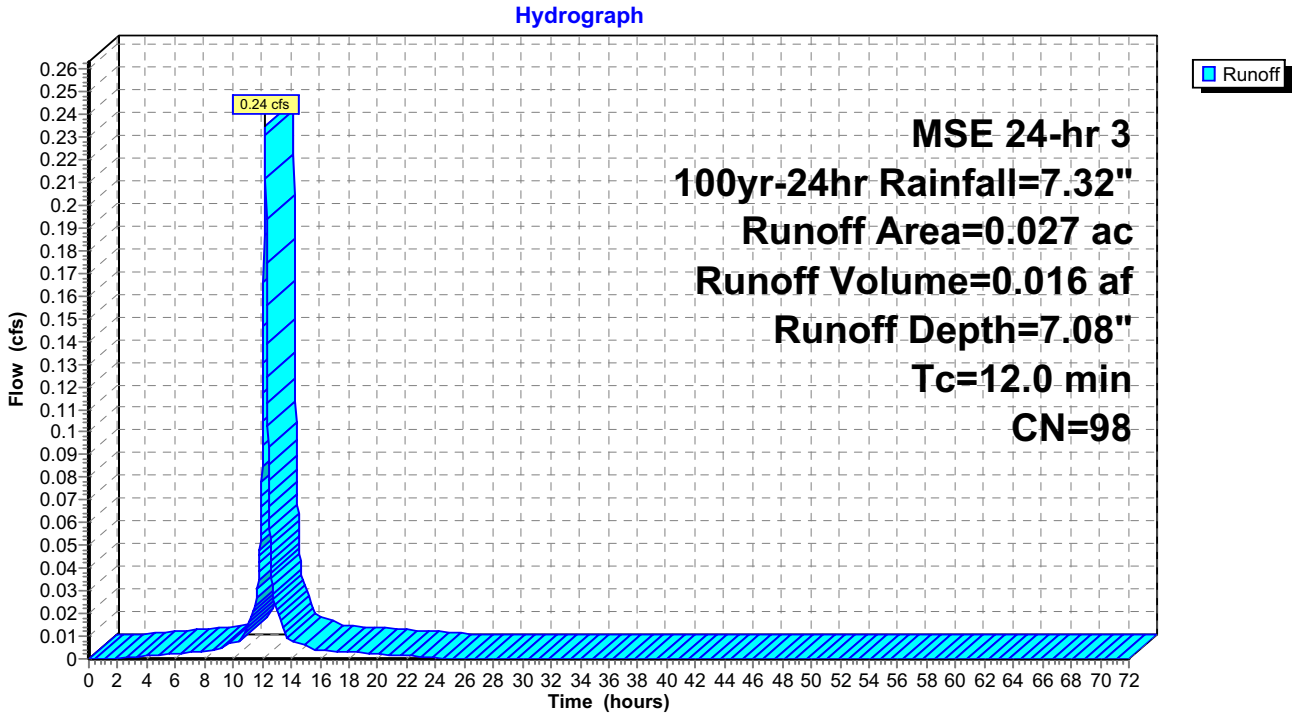
Runoff = 0.24 cfs @ 12.19 hrs, Volume= 0.016 af, Depth= 7.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.027	98	Impervious
	0.027		100.00% Impervious Area

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

Subcatchment A15_100: A15_100



Summary for Subcatchment A8: A8

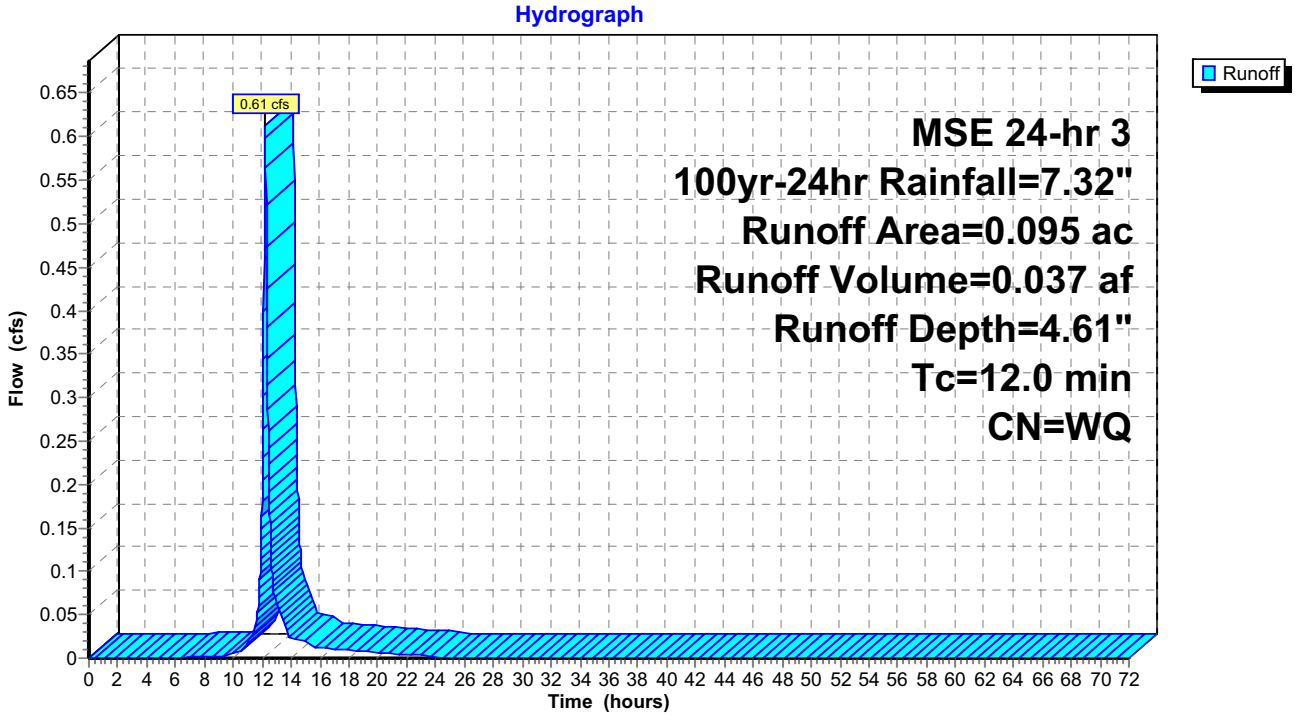
Runoff = 0.61 cfs @ 12.20 hrs, Volume= 0.037 af, Depth= 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.010	98	Impervious
	0.085	74	>75% Grass cover, Good, HSG C
	0.095		Weighted Average
	0.085		89.47% Pervious Area
	0.010		10.53% Impervious Area

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

Subcatchment A8: A8



Summary for Subcatchment A9: A9

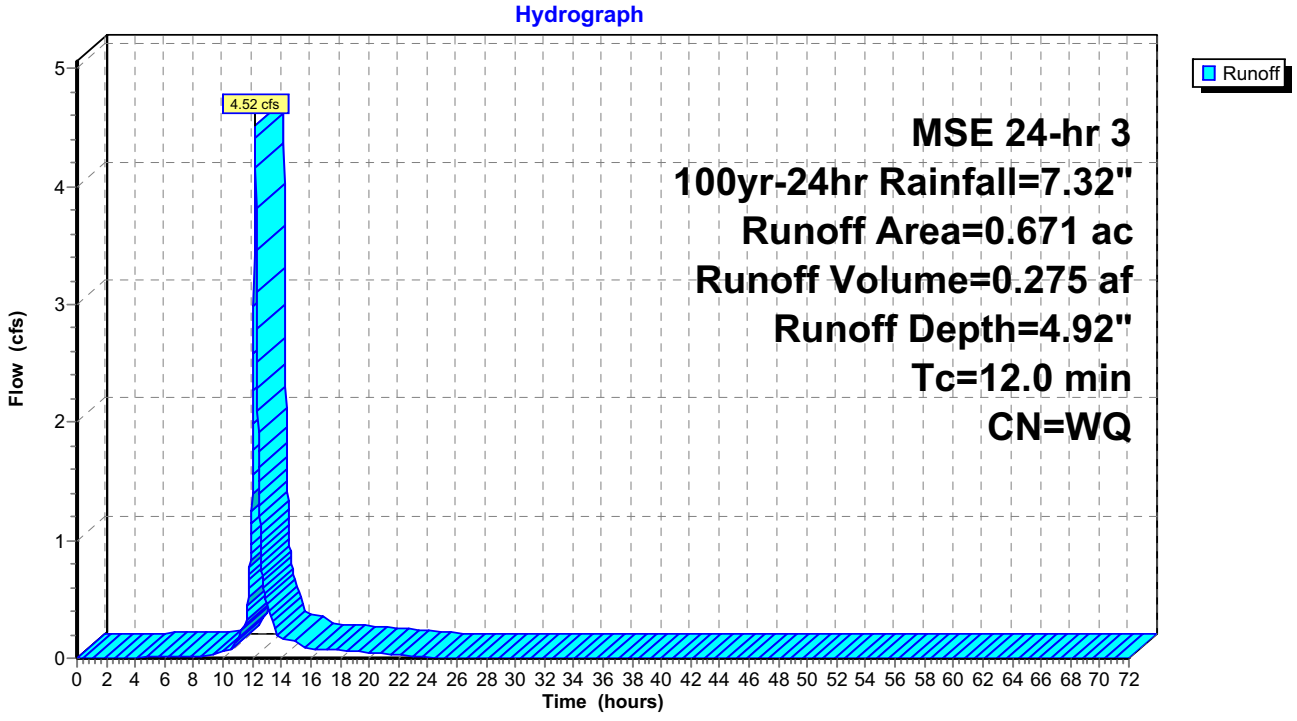
Runoff = 4.52 cfs @ 12.20 hrs, Volume= 0.275 af, Depth= 4.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.145	98	Impervious
	0.526	74	>75% Grass cover, Good, HSG C
	0.671		Weighted Average
	0.526		78.39% Pervious Area
	0.145		21.61% Impervious Area

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

Subcatchment A9: A9



Summary for Subcatchment B5: B5

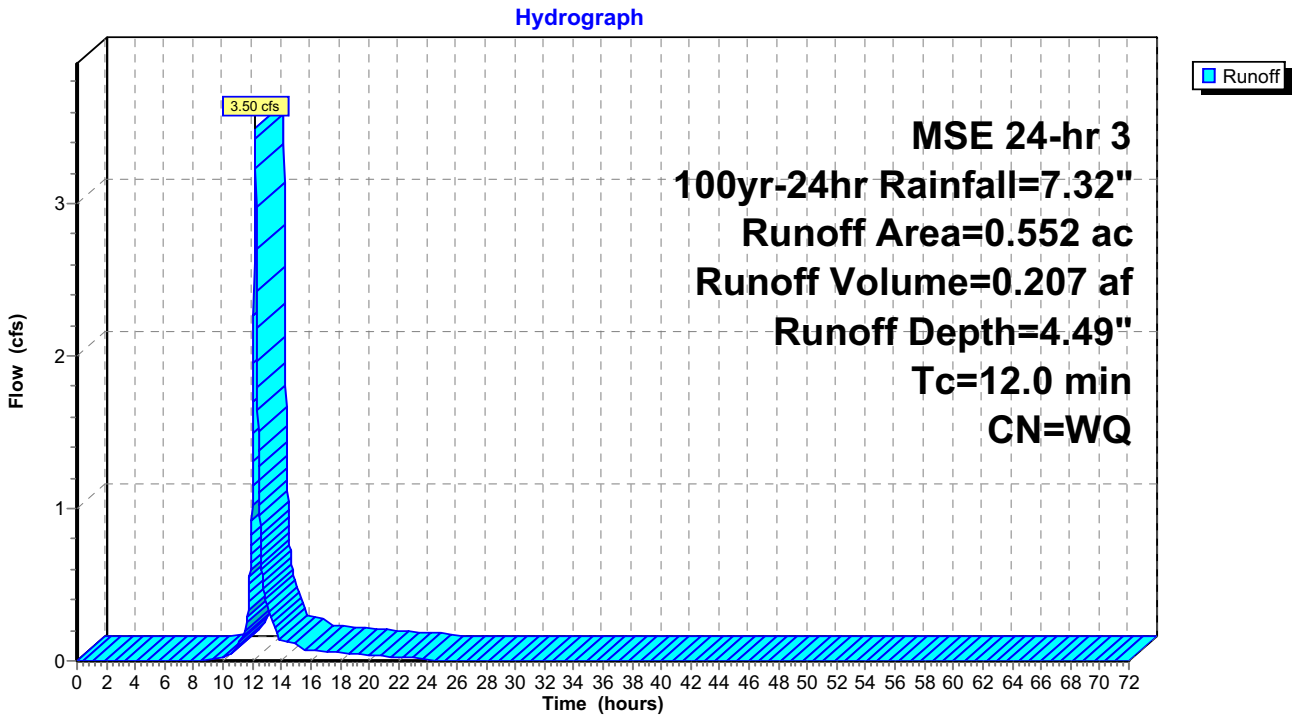
Runoff = 3.50 cfs @ 12.20 hrs, Volume= 0.207 af, Depth= 4.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.040	98	Impervious
	0.358	74	>75% Grass cover, Good, HSG C
	0.154	73	Woods, Fair, HSG C
	0.552		Weighted Average
	0.512		92.75% Pervious Area
	0.040		7.25% Impervious Area

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

Subcatchment B5: B5



Summary for Subcatchment B6: B6

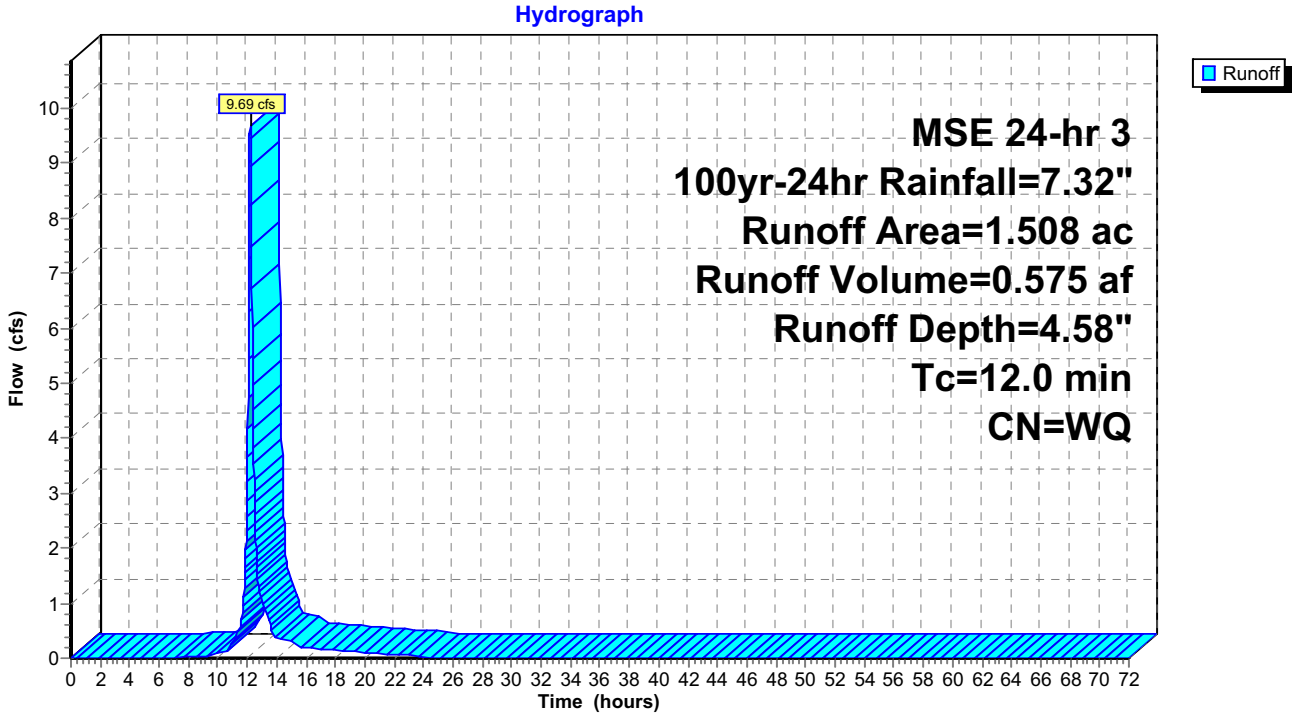
Runoff = 9.69 cfs @ 12.20 hrs, Volume= 0.575 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.140	98	Impervious
	1.368	74	>75% Grass cover, Good, HSG C
	1.508		Weighted Average
	1.368		90.72% Pervious Area
	0.140		9.28% Impervious Area

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

Subcatchment B6: B6



Summary for Subcatchment B7: B7

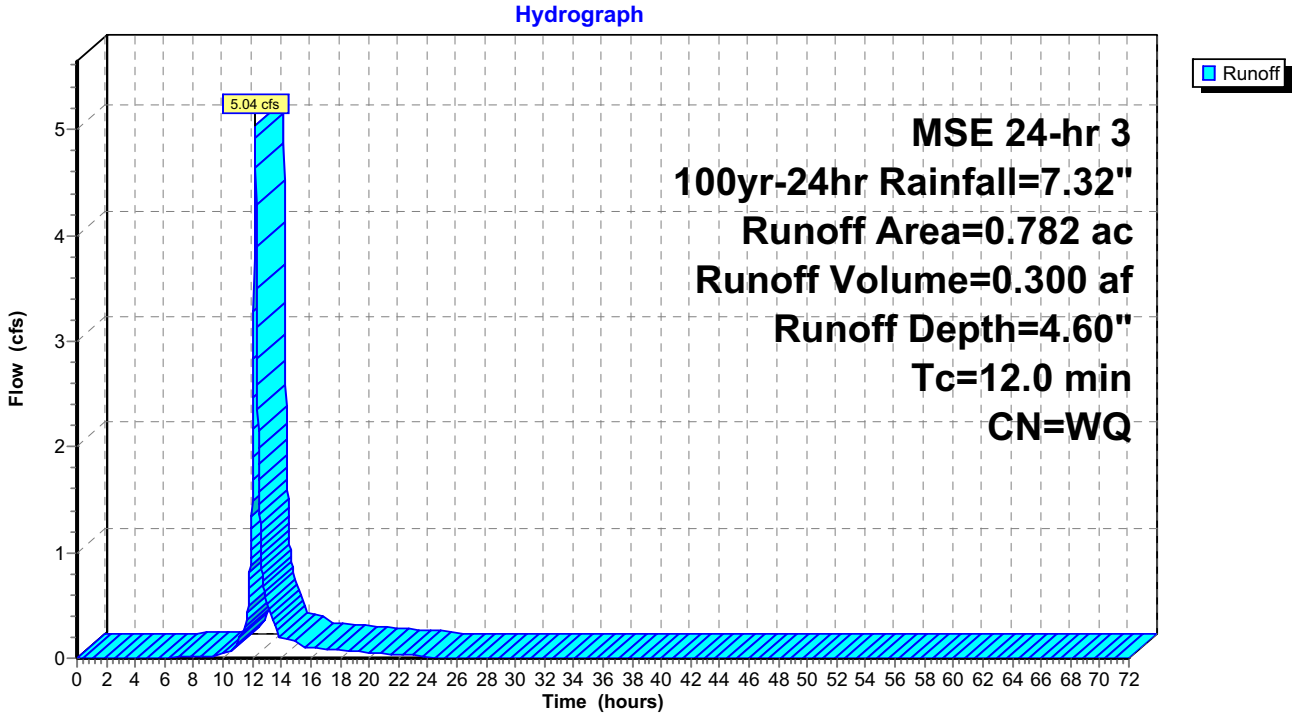
Runoff = 5.04 cfs @ 12.20 hrs, Volume= 0.300 af, Depth= 4.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.702	74	>75% Grass cover, Good, HSG C
*	0.080	98	Pond
	0.782		Weighted Average
	0.702		89.77% Pervious Area
	0.080		10.23% Impervious Area

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

Subcatchment B7: B7



Summary for Subcatchment B7_100: B7_100

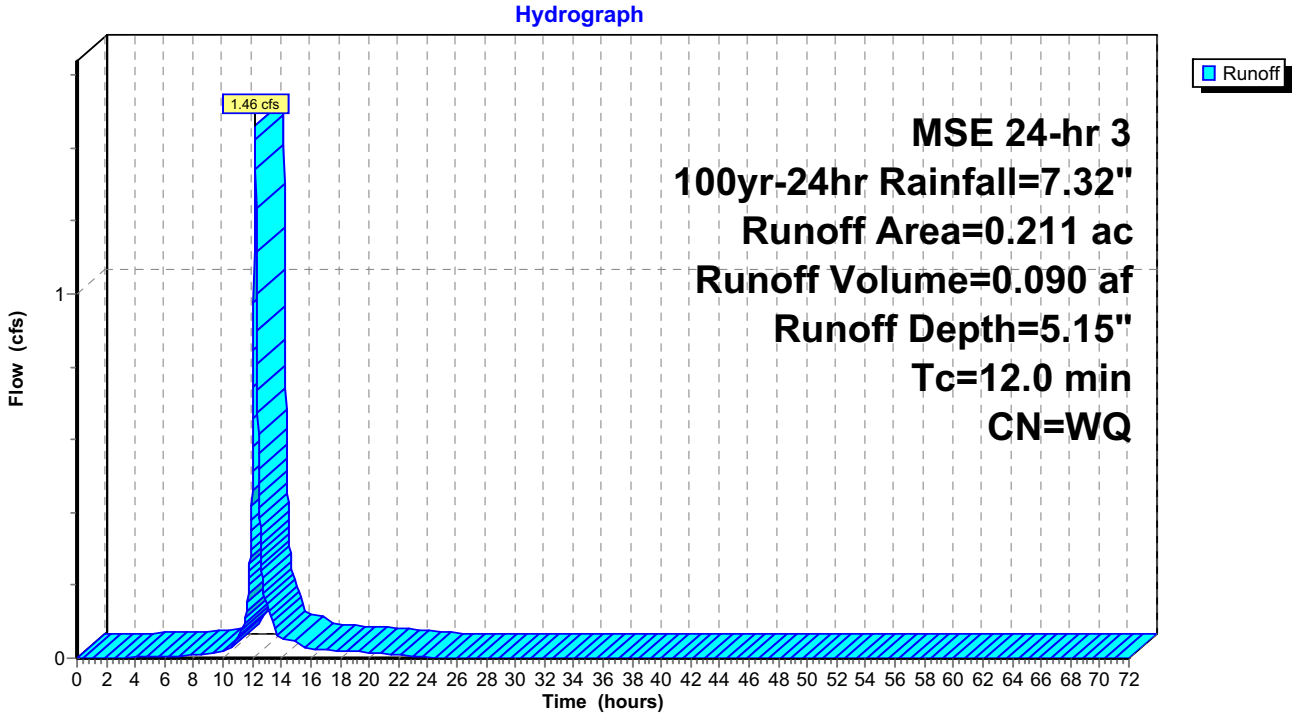
Runoff = 1.46 cfs @ 12.20 hrs, Volume= 0.090 af, Depth= 5.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.148	74	>75% Grass cover, Good, HSG C
*	0.063	98	Impervious
	0.211		Weighted Average
	0.148		70.14% Pervious Area
	0.063		29.86% Impervious Area

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

Subcatchment B7_100: B7_100



Summary for Subcatchment B8: B8

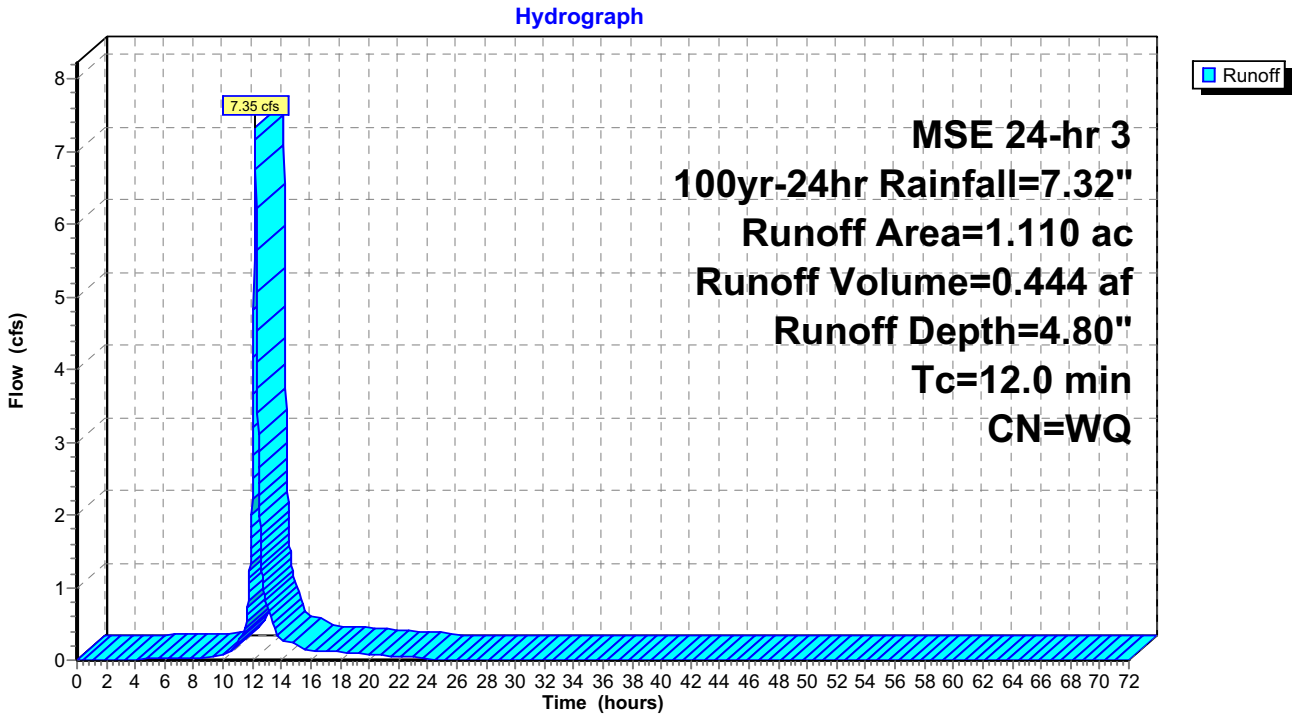
Runoff = 7.35 cfs @ 12.20 hrs, Volume= 0.444 af, Depth= 4.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.127	98	Impervious
	0.747	74	>75% Grass cover, Good, HSG C
*	0.071	98	Impervious
	0.165	73	Woods, Fair, HSG C
	1.110		Weighted Average
	0.912		82.16% Pervious Area
	0.198		17.84% Impervious Area

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

Subcatchment B8: B8



Summary for Subcatchment B8_100: B8_100

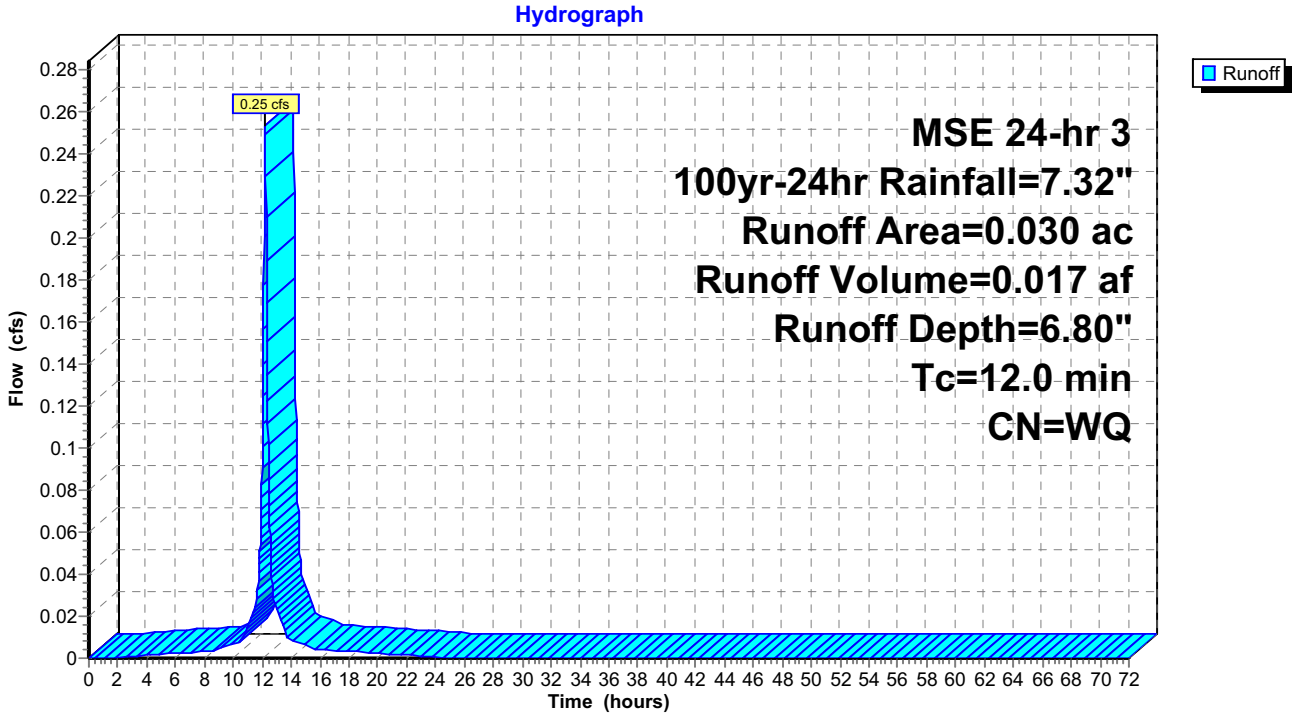
Runoff = 0.25 cfs @ 12.19 hrs, Volume= 0.017 af, Depth= 6.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.003	74	>75% Grass cover, Good, HSG C
*	0.027	98	Impervious
	0.030		Weighted Average
	0.003		10.00% Pervious Area
	0.027		90.00% Impervious Area

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

Subcatchment B8_100: B8_100



Summary for Subcatchment C10: C10

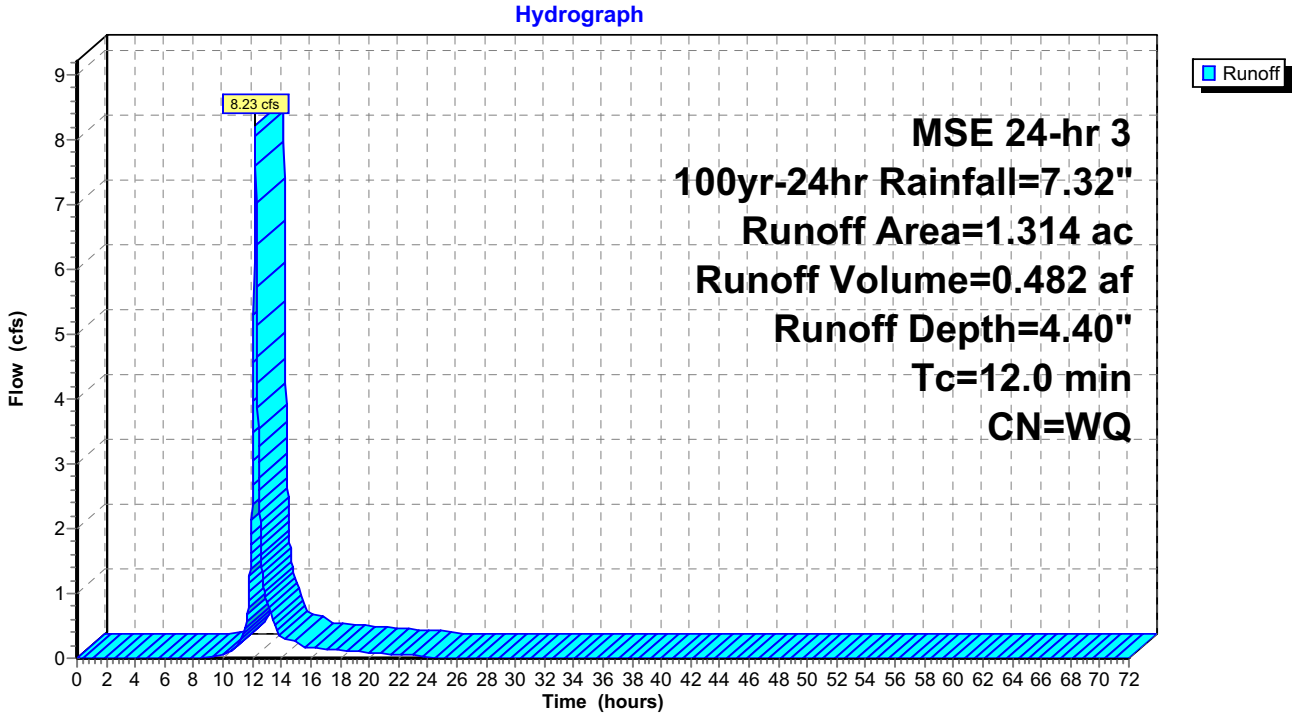
Runoff = 8.23 cfs @ 12.20 hrs, Volume= 0.482 af, Depth= 4.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.036	98	Impervious
	1.278	74	>75% Grass cover, Good, HSG C
	1.314		Weighted Average
	1.278		97.26% Pervious Area
	0.036		2.74% Impervious Area

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

Subcatchment C10: C10



Summary for Subcatchment C10_100: C10_100

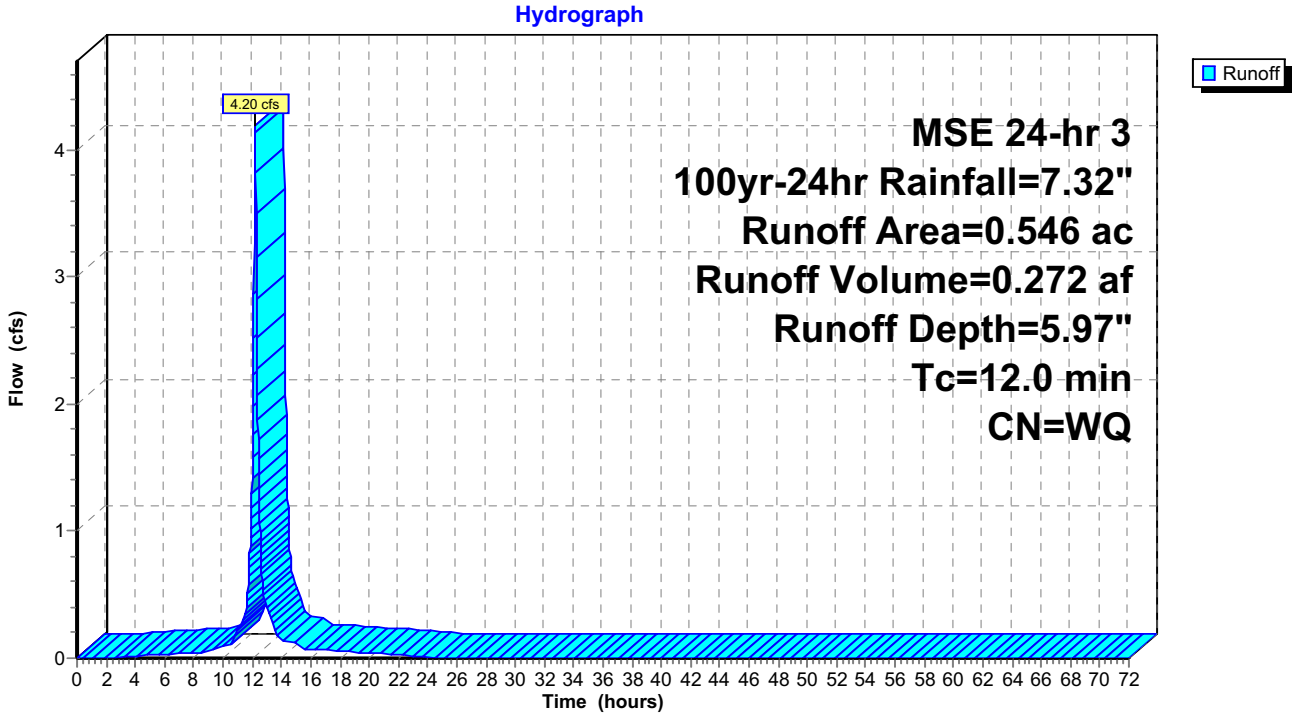
Runoff = 4.20 cfs @ 12.19 hrs, Volume= 0.272 af, Depth= 5.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.220	74	>75% Grass cover, Good, HSG C
*	0.326	98	Impervious
	0.546		Weighted Average
	0.220		40.29% Pervious Area
	0.326		59.71% Impervious Area

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

Subcatchment C10_100: C10_100



Summary for Subcatchment C6: C6

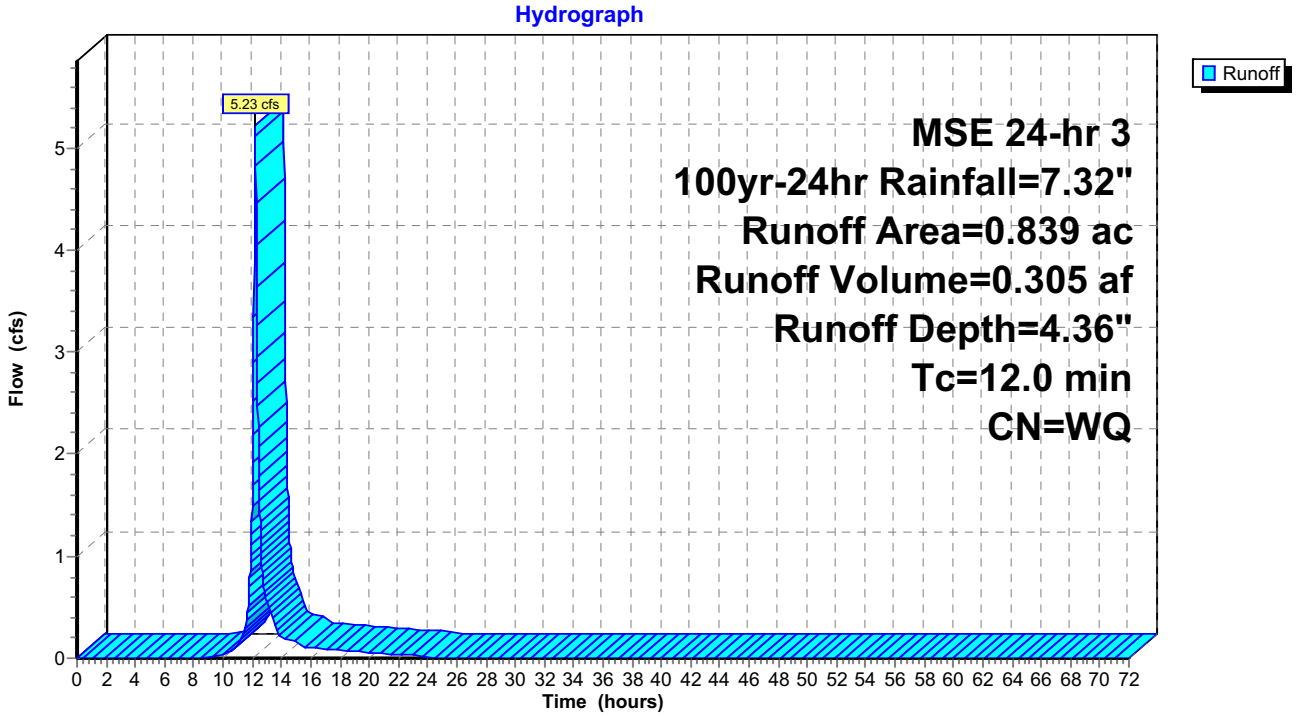
Runoff = 5.23 cfs @ 12.20 hrs, Volume= 0.305 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.011	98	Impervious
	0.828	74	>75% Grass cover, Good, HSG C
	0.839		Weighted Average
	0.828		98.69% Pervious Area
	0.011		1.31% Impervious Area

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

Subcatchment C6: C6



Summary for Subcatchment C7: C7

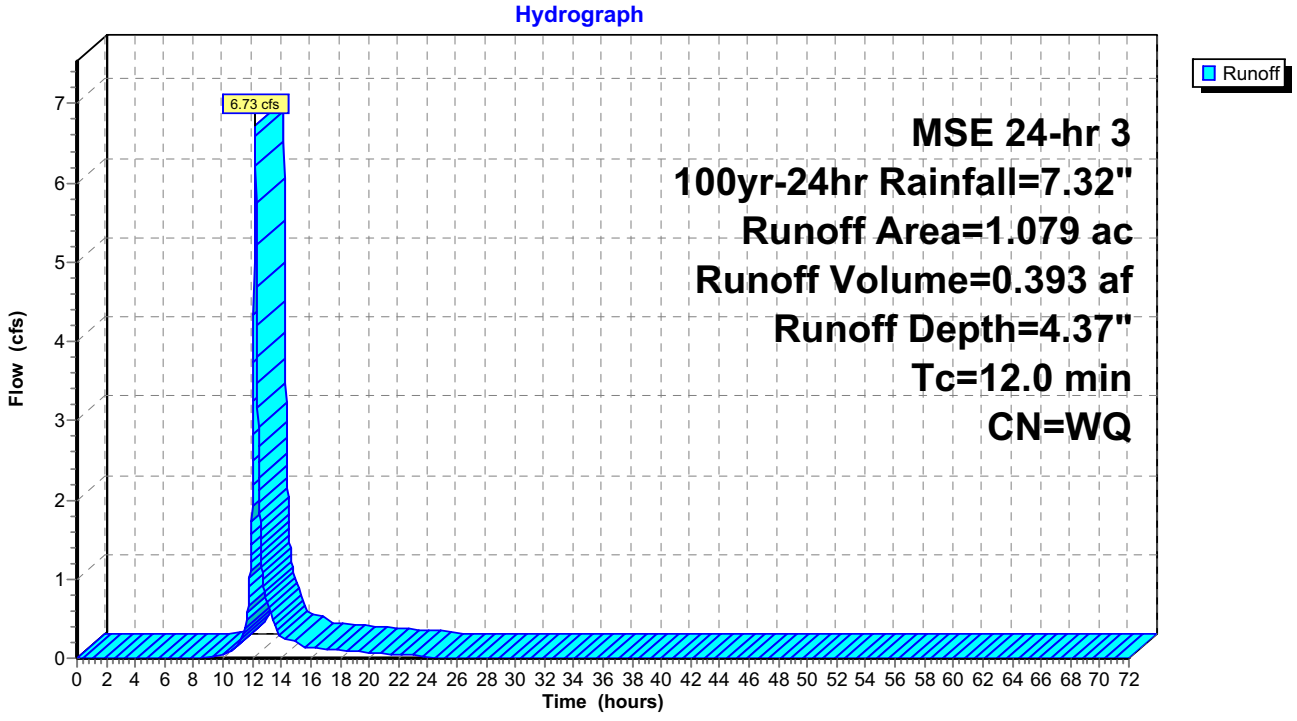
Runoff = 6.73 cfs @ 12.20 hrs, Volume= 0.393 af, Depth= 4.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.018	98	Impervious
	1.061	74	>75% Grass cover, Good, HSG C
	1.079		Weighted Average
	1.061		98.33% Pervious Area
	0.018		1.67% Impervious Area

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

Subcatchment C7: C7



Summary for Subcatchment C7_100: C7_100

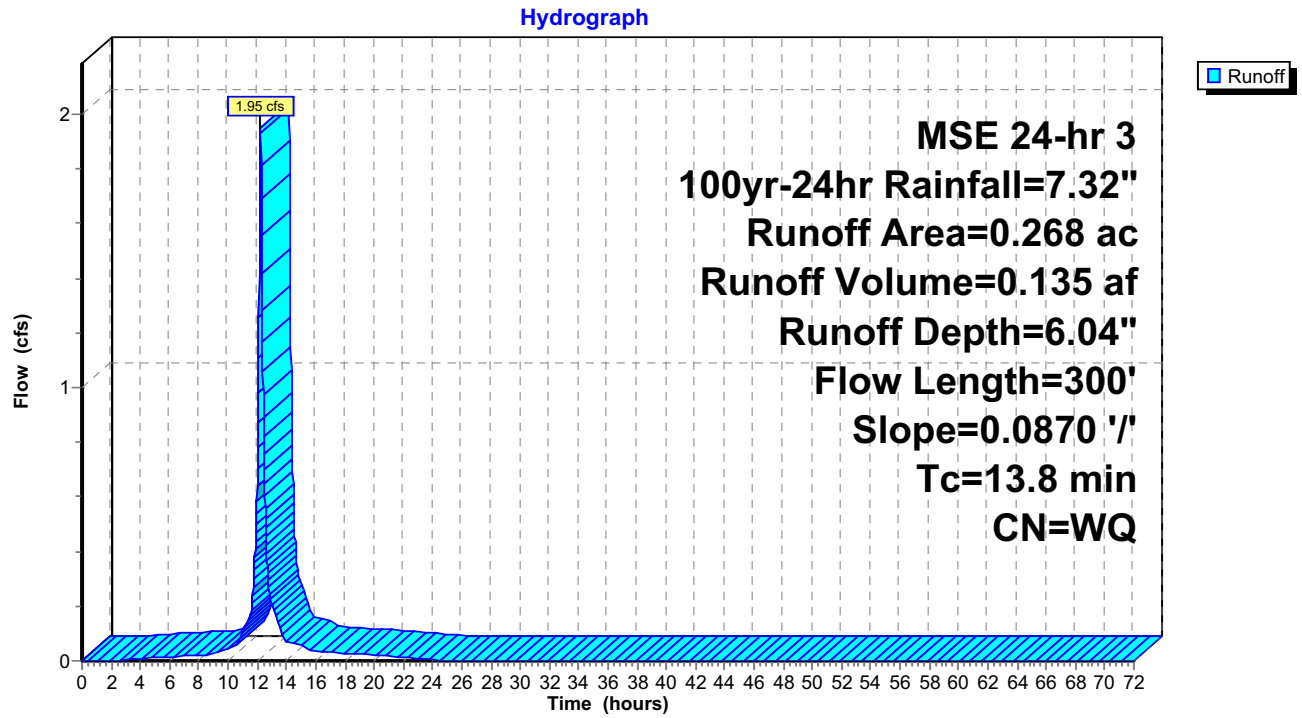
Runoff = 1.95 cfs @ 12.21 hrs, Volume= 0.135 af, Depth= 6.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.101	74	>75% Grass cover, Good, HSG C
*	0.167	98	Impervious
	0.268		Weighted Average
	0.101		37.69% Pervious Area
	0.167		62.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	300	0.0870	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment C7_100: C7_100



Summary for Subcatchment C8: C8

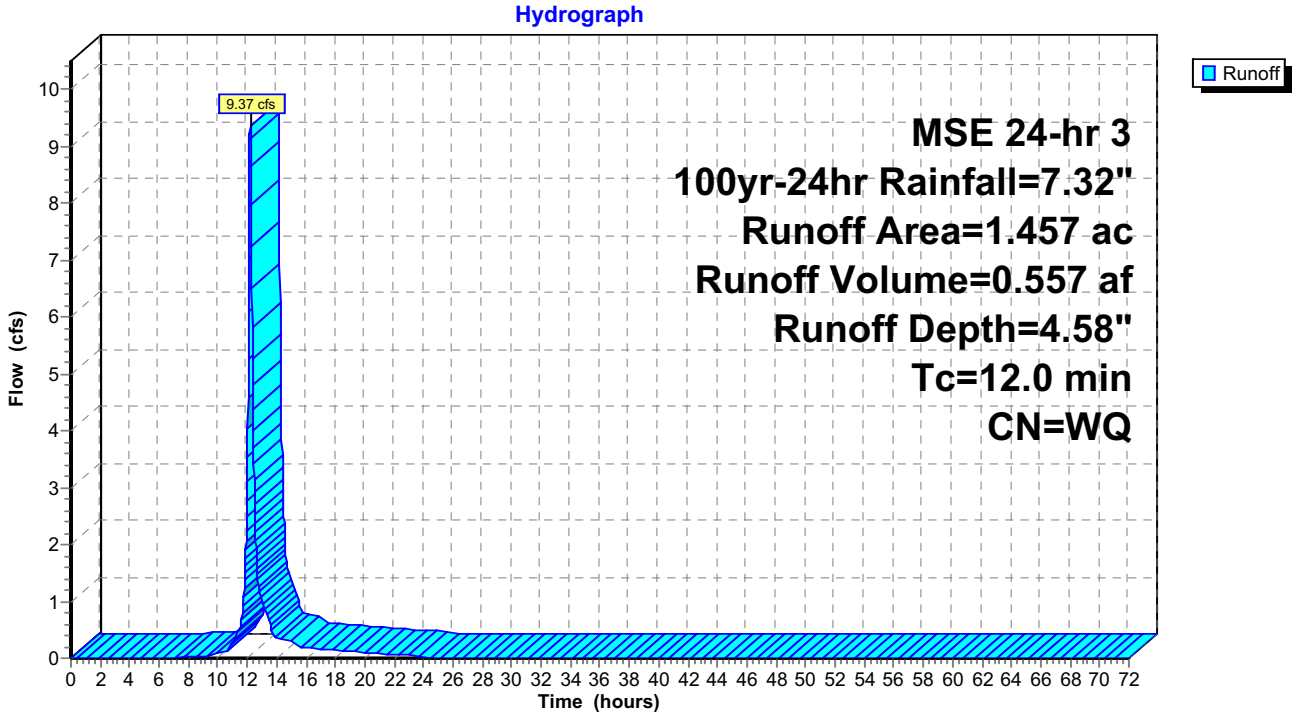
Runoff = 9.37 cfs @ 12.20 hrs, Volume= 0.557 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.138	98	Impervious
	1.319	74	>75% Grass cover, Good, HSG C
	1.457		Weighted Average
	1.319		90.53% Pervious Area
	0.138		9.47% Impervious Area

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

Subcatchment C8: C8



Summary for Subcatchment C8_100: C8_100

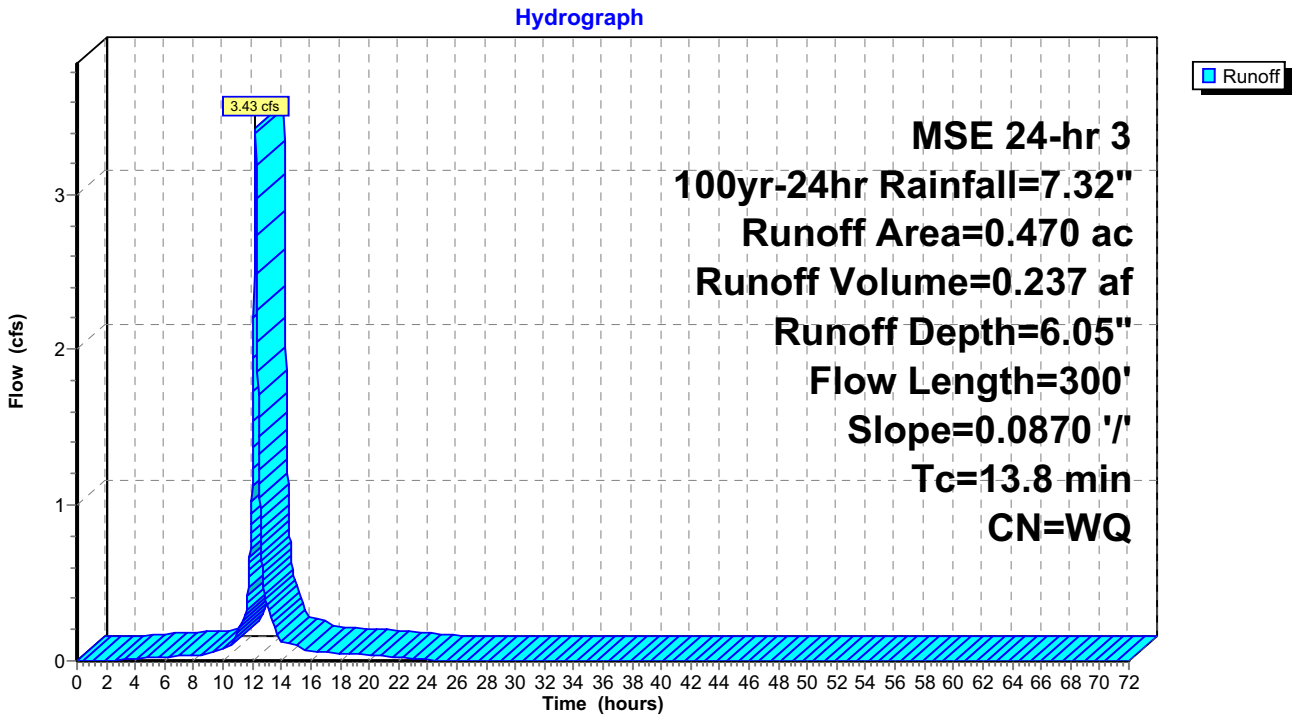
Runoff = 3.43 cfs @ 12.21 hrs, Volume= 0.237 af, Depth= 6.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.175	74	>75% Grass cover, Good, HSG C
*	0.295	98	Impervious
	0.470		Weighted Average
	0.175		37.23% Pervious Area
	0.295		62.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	300	0.0870	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment C8_100: C8_100



Summary for Subcatchment C9: C9

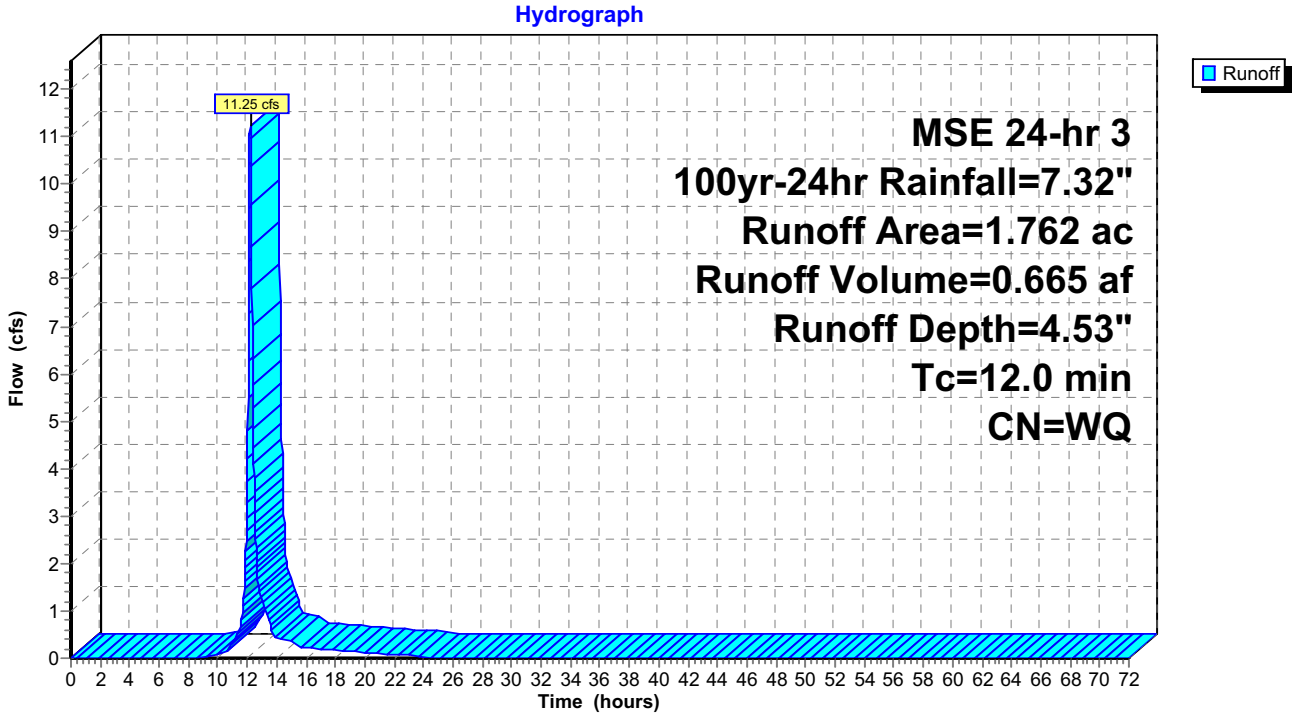
Runoff = 11.25 cfs @ 12.20 hrs, Volume= 0.665 af, Depth= 4.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.132	98	Impervious
	1.630	74	>75% Grass cover, Good, HSG C
	1.762		Weighted Average
	1.630		92.51% Pervious Area
	0.132		7.49% Impervious Area

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

Subcatchment C9: C9



Summary for Subcatchment C9_100: C9_100

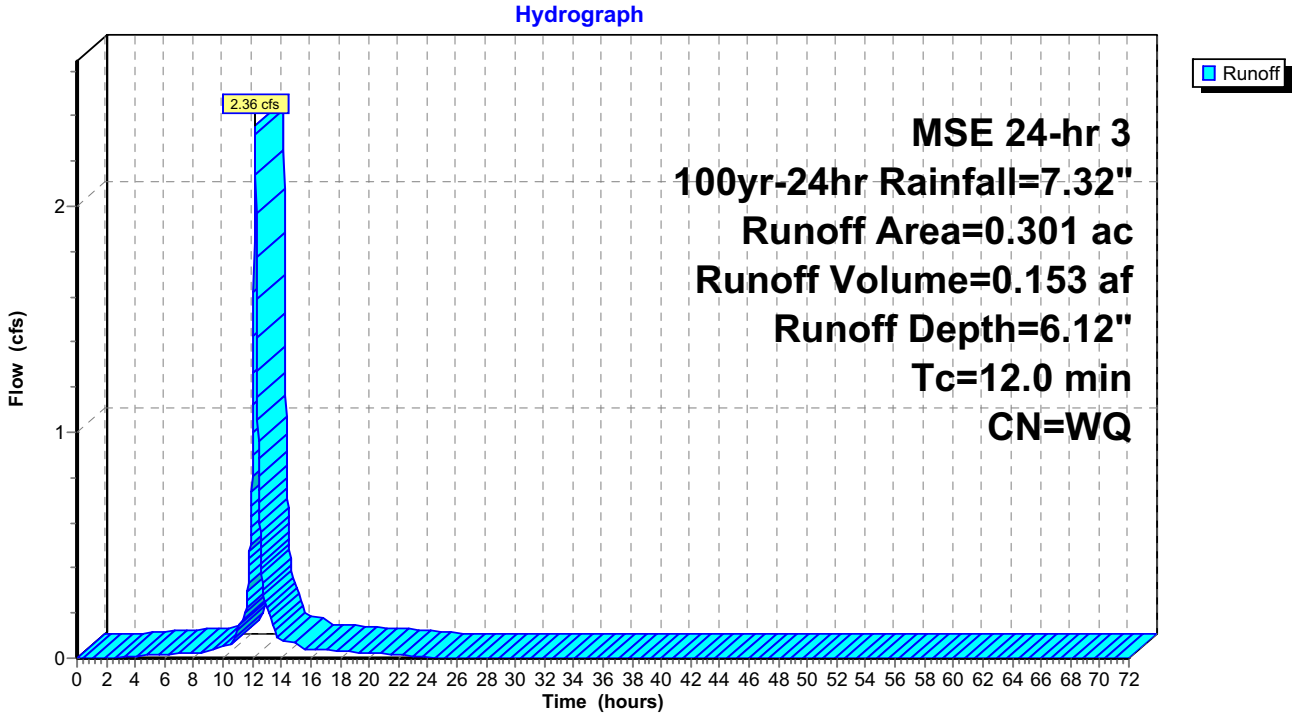
Runoff = 2.36 cfs @ 12.19 hrs, Volume= 0.153 af, Depth= 6.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.105	74	>75% Grass cover, Good, HSG C
*	0.196	98	Impervious
	0.301		Weighted Average
	0.105		34.88% Pervious Area
	0.196		65.12% Impervious Area

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

Subcatchment C9_100: C9_100



Summary for Subcatchment D6: D6

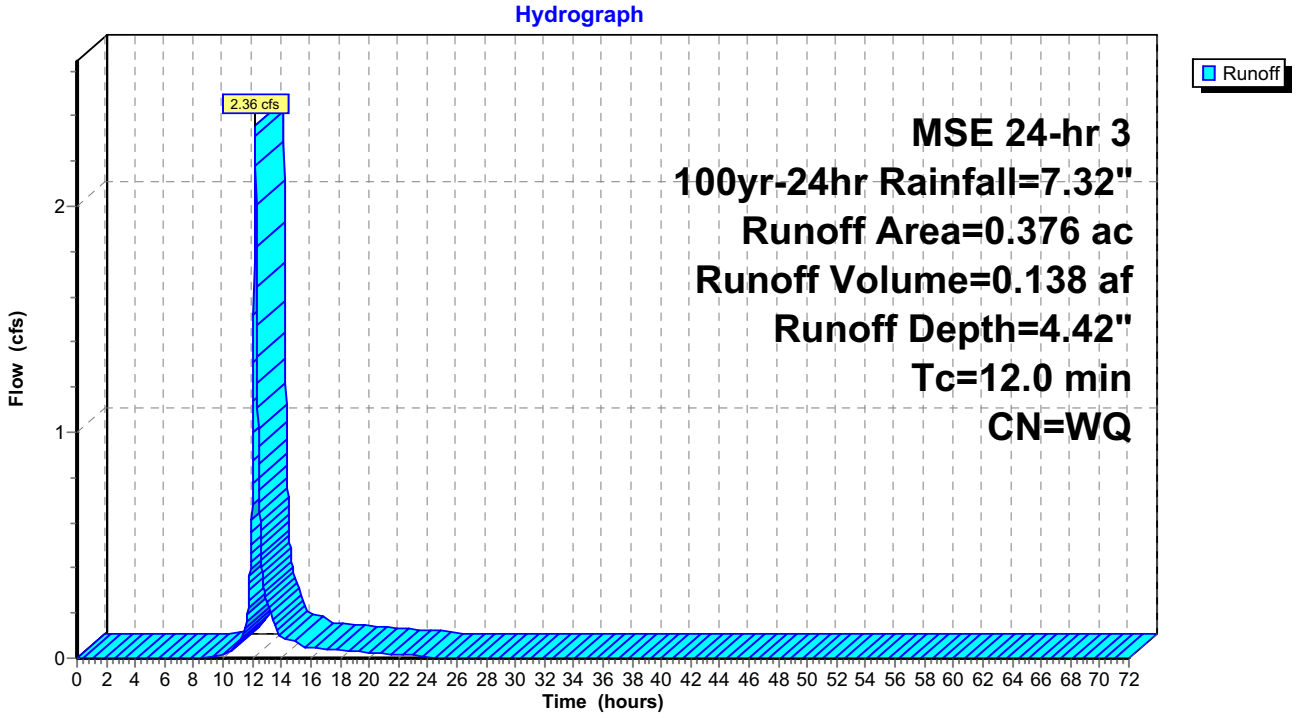
Runoff = 2.36 cfs @ 12.20 hrs, Volume= 0.138 af, Depth= 4.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.013	98	Impervious
	0.363	74	>75% Grass cover, Good, HSG C
	0.376		Weighted Average
	0.363		96.54% Pervious Area
	0.013		3.46% Impervious Area

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

Subcatchment D6: D6



Summary for Subcatchment D7: D7

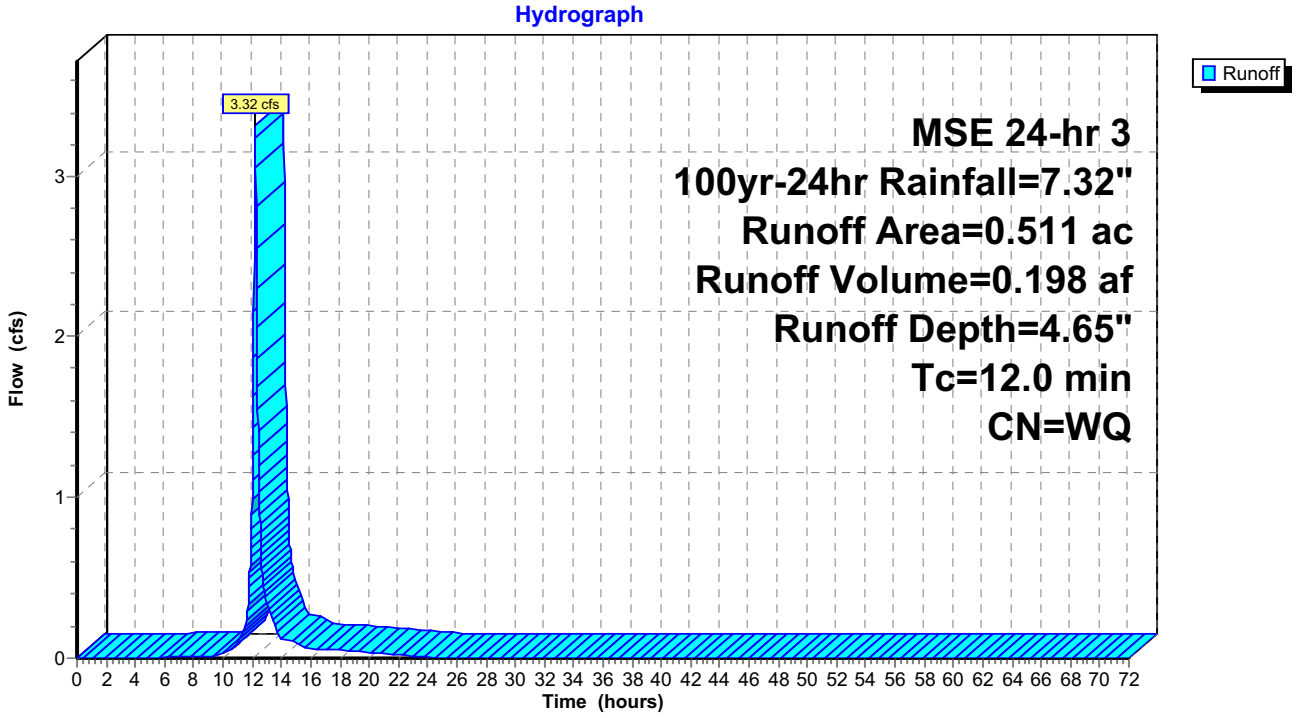
Runoff = 3.32 cfs @ 12.20 hrs, Volume= 0.198 af, Depth= 4.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.061	98	Impervious
	0.450	74	>75% Grass cover, Good, HSG C
	0.511		Weighted Average
	0.450		88.06% Pervious Area
	0.061		11.94% Impervious Area

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

Subcatchment D7: D7



Summary for Subcatchment D7_100: D7_100

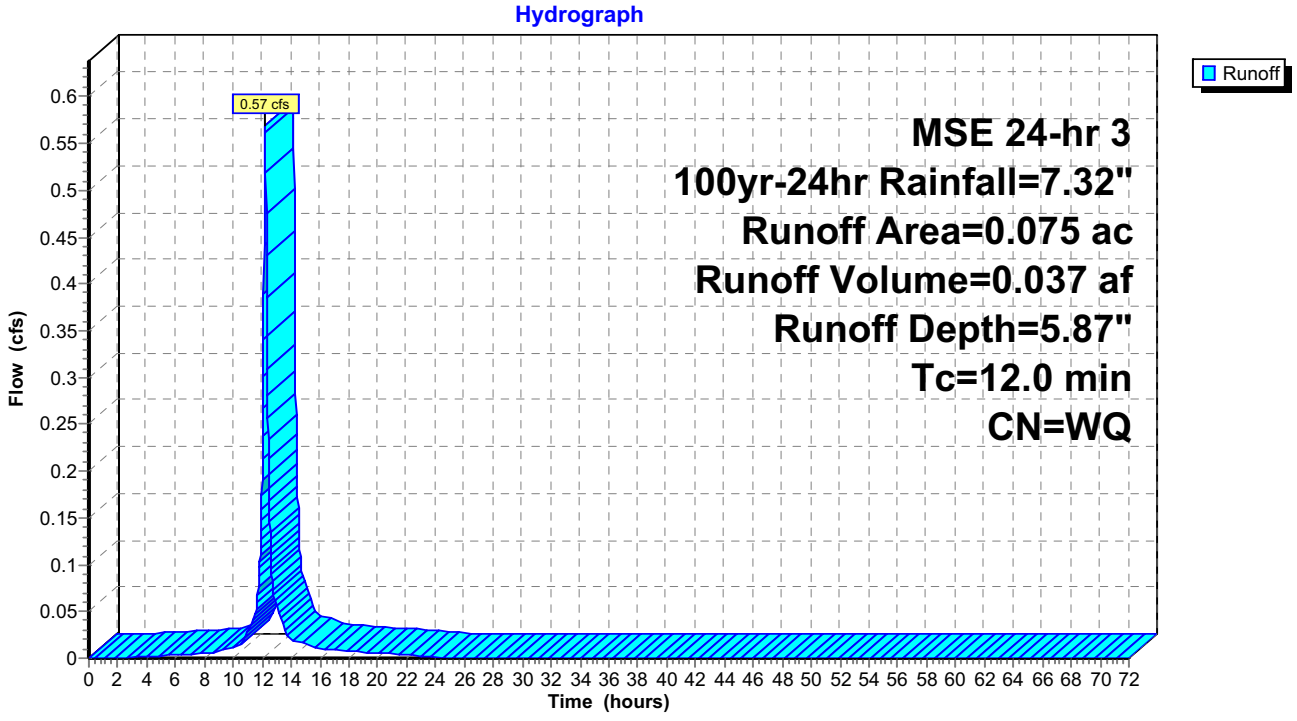
Runoff = 0.57 cfs @ 12.19 hrs, Volume= 0.037 af, Depth= 5.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.033	74	>75% Grass cover, Good, HSG C
*	0.042	98	Impervious
	0.075		Weighted Average
	0.033		44.00% Pervious Area
	0.042		56.00% Impervious Area

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

Subcatchment D7_100: D7_100



Summary for Subcatchment D8: D8

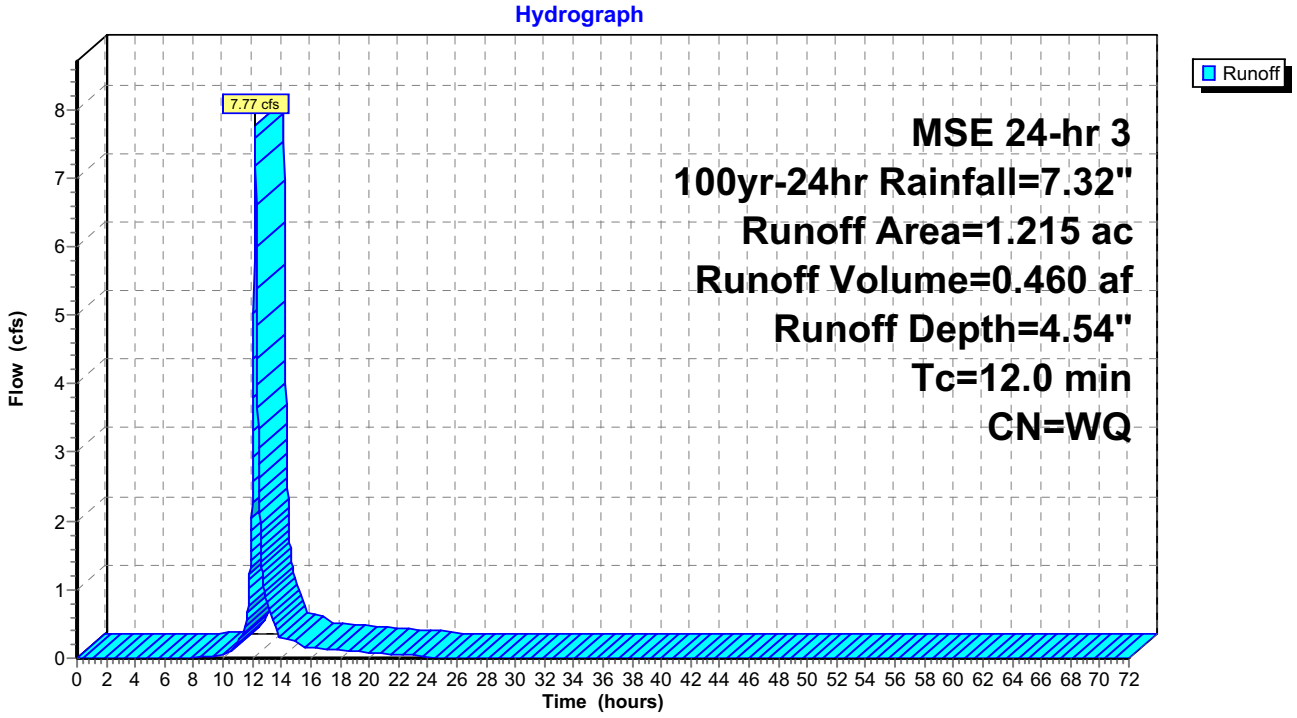
Runoff = 7.77 cfs @ 12.20 hrs, Volume= 0.460 af, Depth= 4.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.097	98	Impervious
	1.118	74	>75% Grass cover, Good, HSG C
	1.215		Weighted Average
	1.118		92.02% Pervious Area
	0.097		7.98% Impervious Area

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

Subcatchment D8: D8



Summary for Subcatchment D9: D9

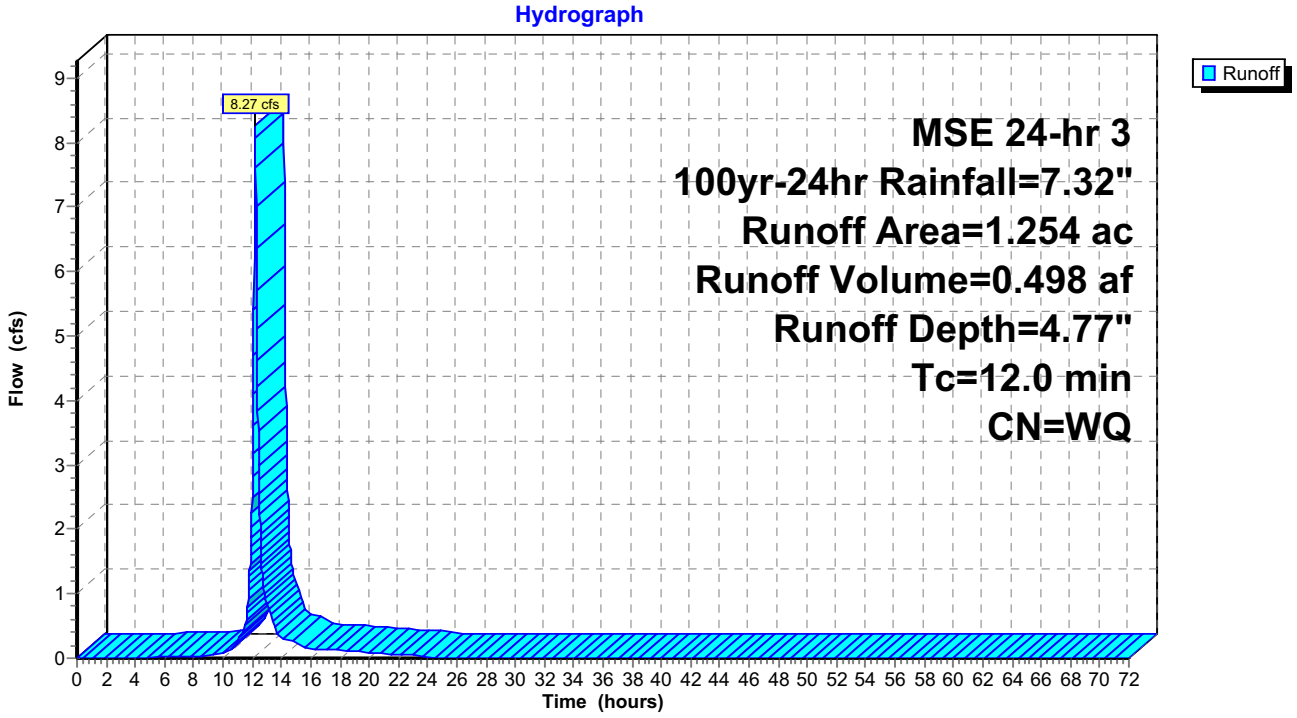
Runoff = 8.27 cfs @ 12.20 hrs, Volume= 0.498 af, Depth= 4.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.202	98	Impervious
	1.052	74	>75% Grass cover, Good, HSG C
	1.254		Weighted Average
	1.052		83.89% Pervious Area
	0.202		16.11% Impervious Area

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

Subcatchment D9: D9



Summary for Subcatchment E13: E13

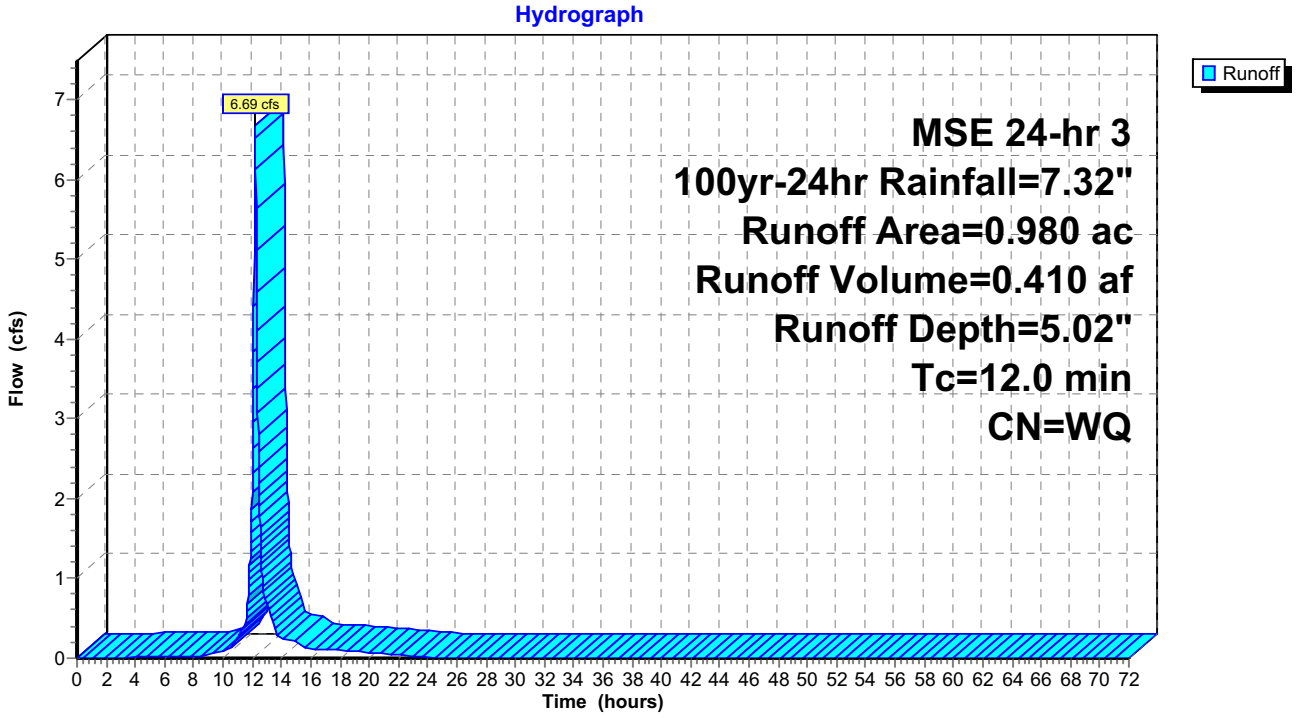
Runoff = 6.69 cfs @ 12.20 hrs, Volume= 0.410 af, Depth= 5.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.248	98	Impervious
	0.732	74	>75% Grass cover, Good, HSG C
	0.980		Weighted Average
	0.732		74.69% Pervious Area
	0.248		25.31% Impervious Area

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

Subcatchment E13: E13



Summary for Subcatchment E15: E15

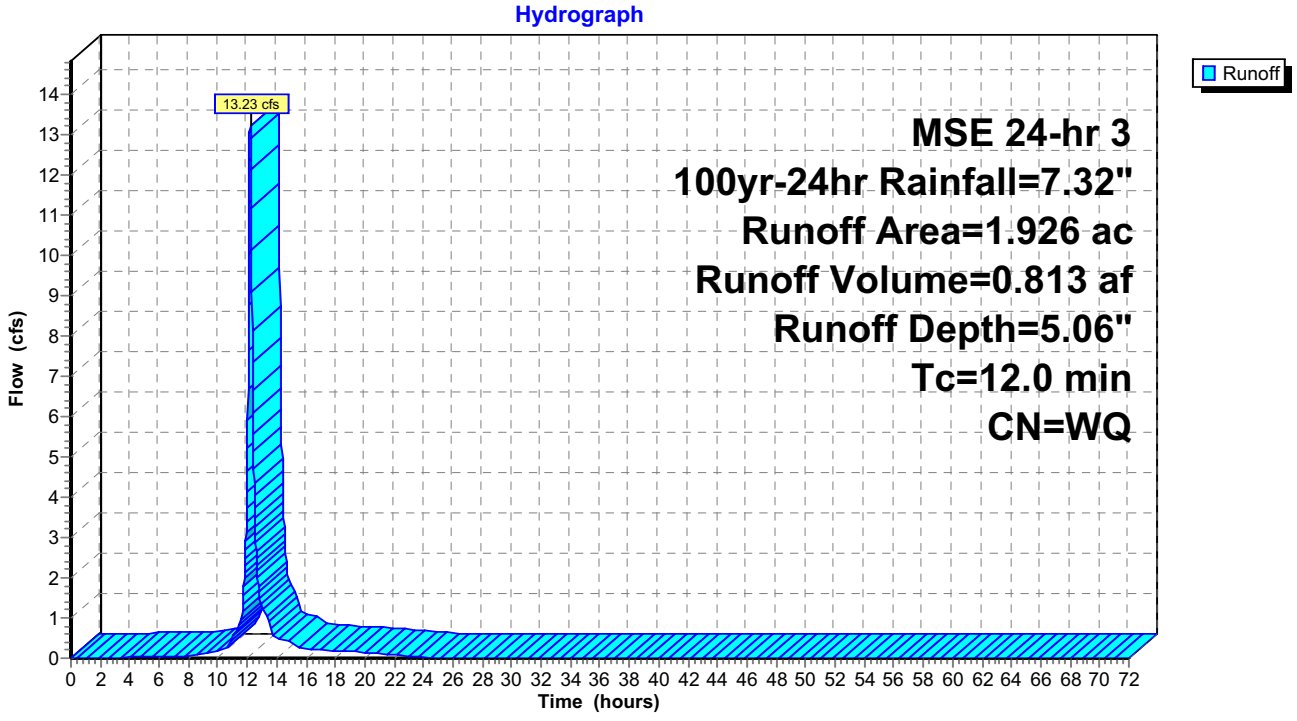
Runoff = 13.23 cfs @ 12.20 hrs, Volume= 0.813 af, Depth= 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.518	98	Impervious
	1.408	74	>75% Grass cover, Good, HSG C
	1.926		Weighted Average
	1.408		73.10% Pervious Area
	0.518		26.90% Impervious Area

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

Subcatchment E15: E15



Summary for Subcatchment E16: E16

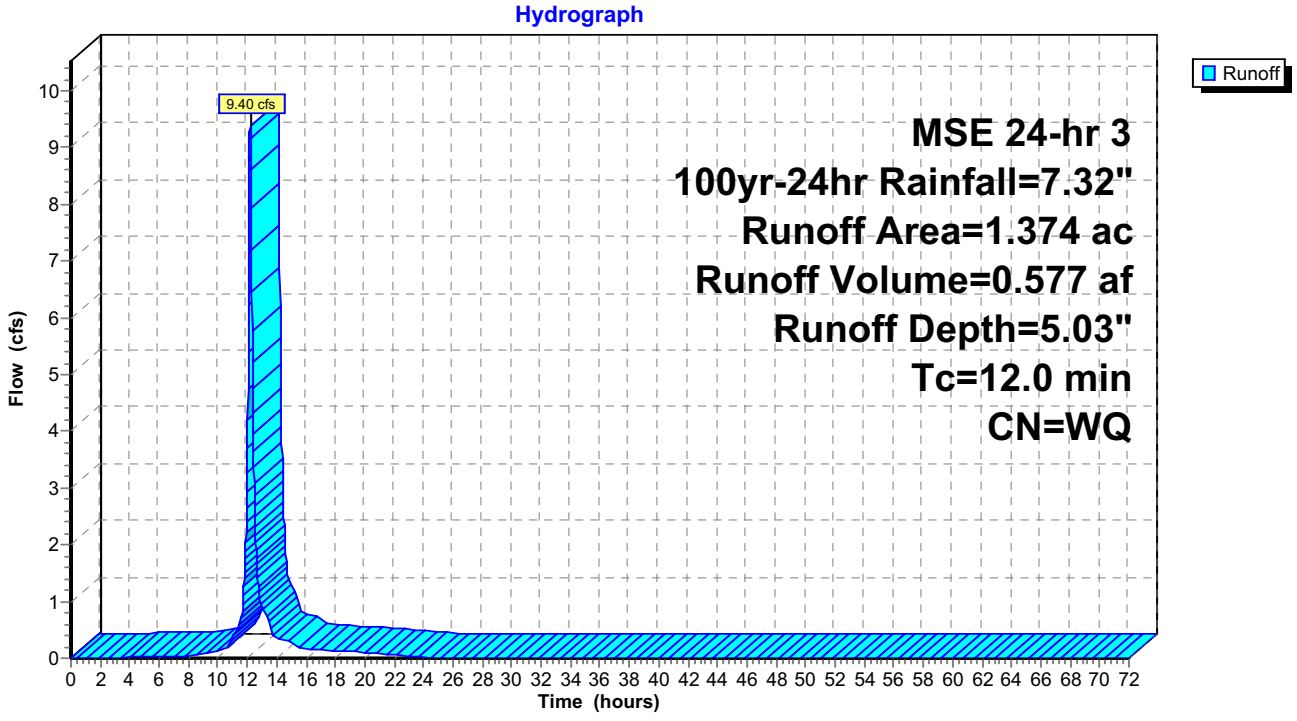
Runoff = 9.40 cfs @ 12.20 hrs, Volume= 0.577 af, Depth= 5.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.355	98	Impervious
	1.019	74	>75% Grass cover, Good, HSG C
	1.374		Weighted Average
	1.019		74.16% Pervious Area
	0.355		25.84% Impervious Area

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

Subcatchment E16: E16



Summary for Subcatchment E17: E17

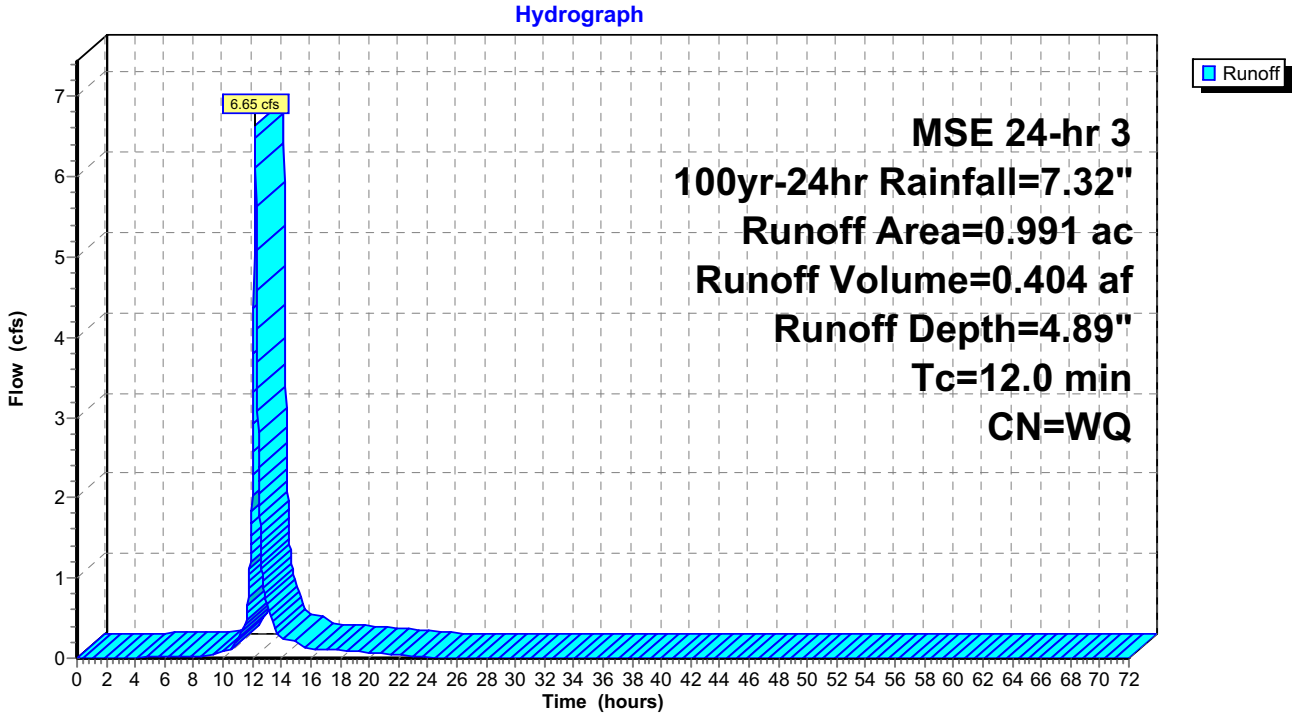
Runoff = 6.65 cfs @ 12.20 hrs, Volume= 0.404 af, Depth= 4.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.203	98	Impervious
	0.788	74	>75% Grass cover, Good, HSG C
	0.991		Weighted Average
	0.788		79.52% Pervious Area
	0.203		20.48% Impervious Area

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

Subcatchment E17: E17



Summary for Subcatchment E18: E18

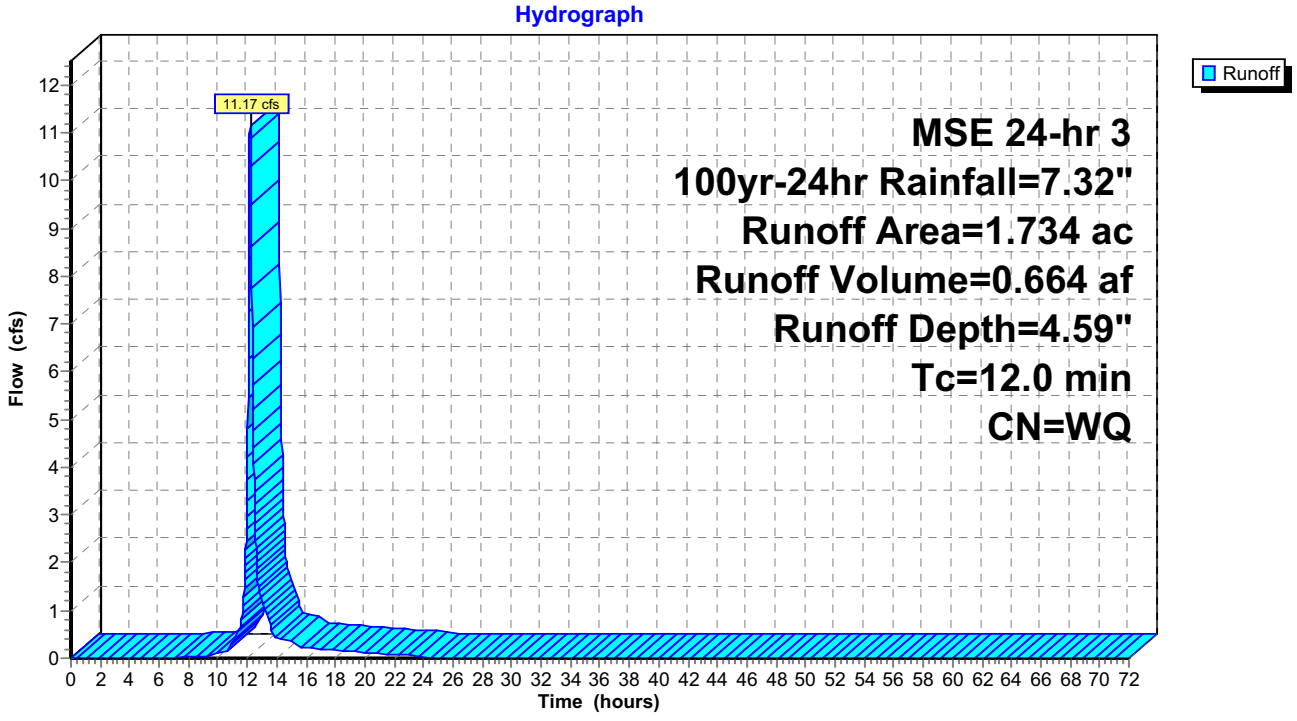
Runoff = 11.17 cfs @ 12.20 hrs, Volume= 0.664 af, Depth= 4.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.171	98	Impervious
	1.563	74	>75% Grass cover, Good, HSG C
	1.734		Weighted Average
	1.563		90.14% Pervious Area
	0.171		9.86% Impervious Area

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

Subcatchment E18: E18



Hollydale - Proposed Conditions - 6.25.2020
Prepared by AE2S
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Summary for Subcatchment F5: F5

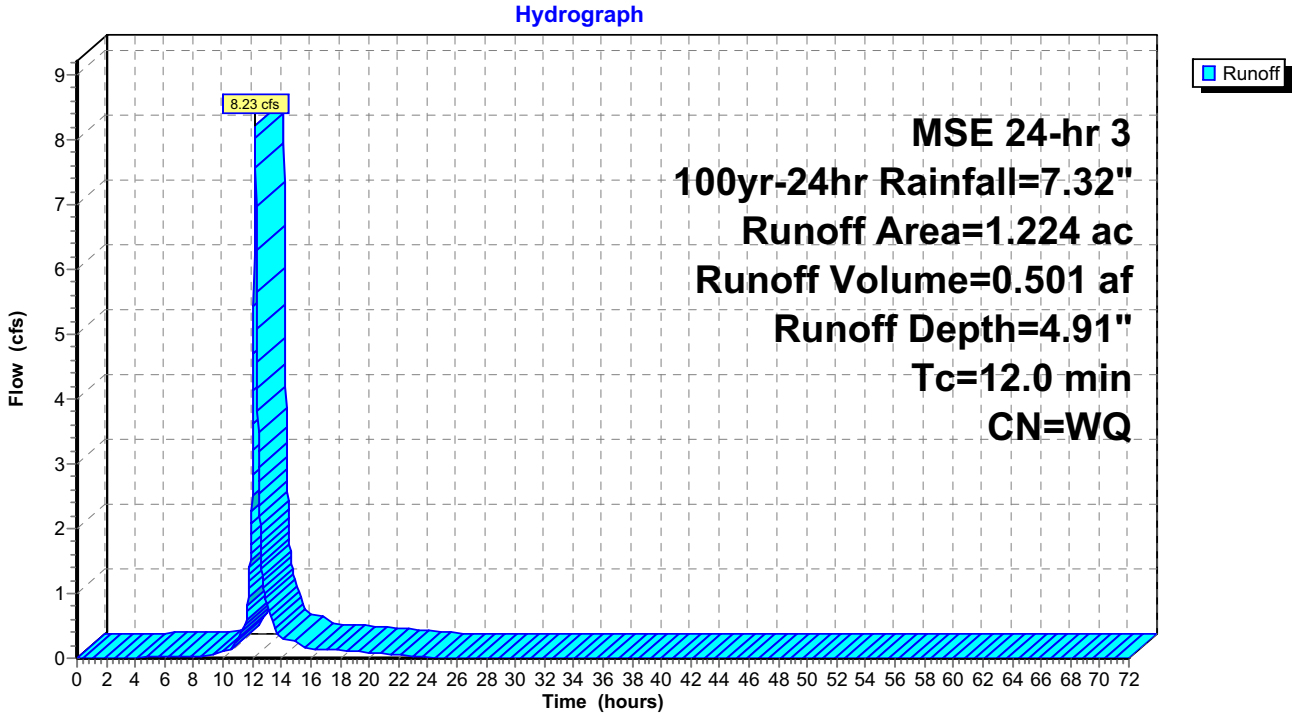
Runoff = 8.23 cfs @ 12.20 hrs, Volume= 0.501 af, Depth= 4.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.260	98	Impervious
	0.964	74	>75% Grass cover, Good, HSG C
	1.224		Weighted Average
	0.964		78.76% Pervious Area
	0.260		21.24% Impervious Area

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

Subcatchment F5: F5



Summary for Subcatchment F6: F6

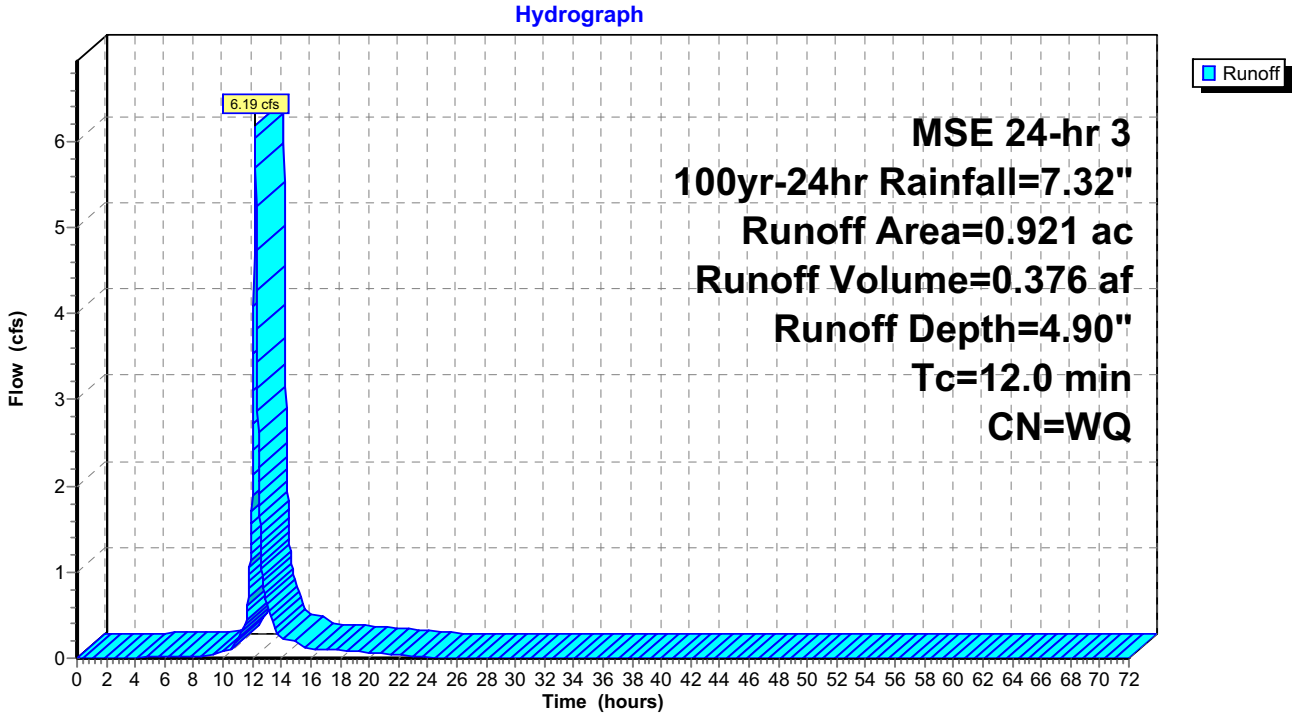
Runoff = 6.19 cfs @ 12.20 hrs, Volume= 0.376 af, Depth= 4.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.194	98	Impervious
	0.727	74	>75% Grass cover, Good, HSG C
	0.921		Weighted Average
	0.727		78.94% Pervious Area
	0.194		21.06% Impervious Area

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

Subcatchment F6: F6



Summary for Subcatchment F7: F7

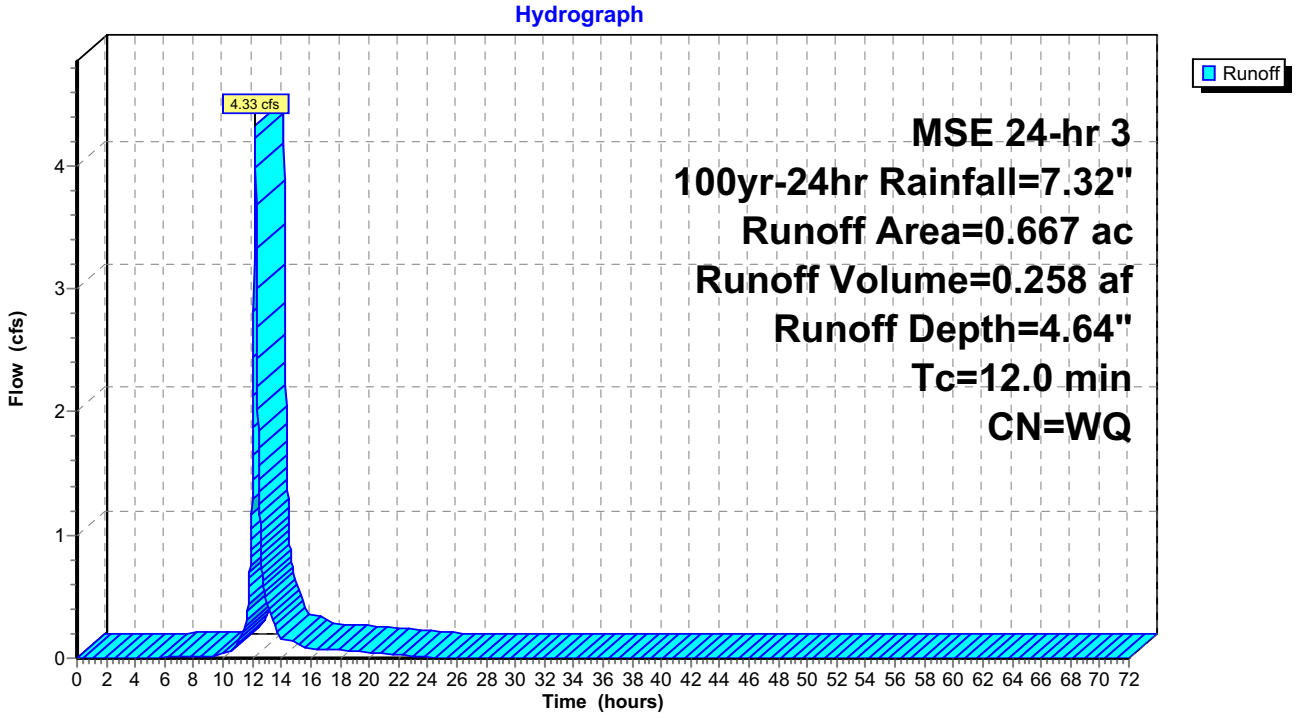
Runoff = 4.33 cfs @ 12.20 hrs, Volume= 0.258 af, Depth= 4.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.078	98	Impervious
	0.589	74	>75% Grass cover, Good, HSG C
	0.667		Weighted Average
	0.589		88.31% Pervious Area
	0.078		11.69% Impervious Area

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

Subcatchment F7: F7



Summary for Subcatchment F8: F8

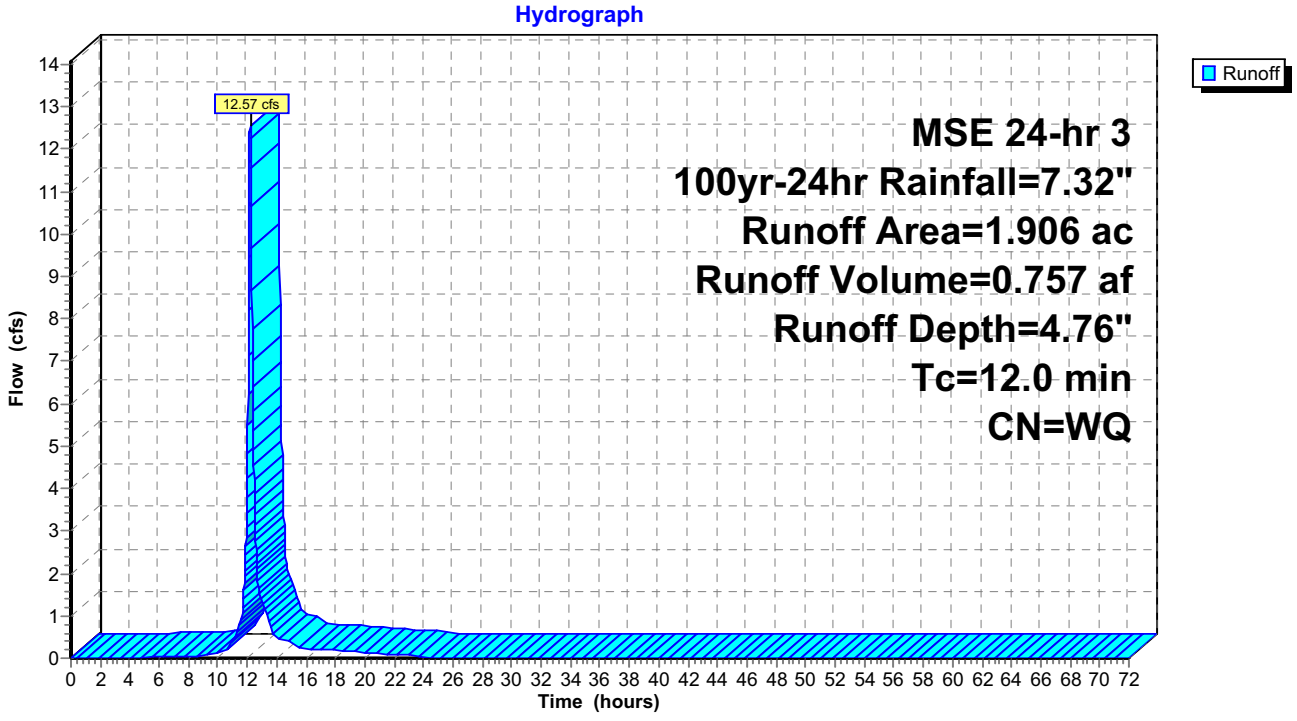
Runoff = 12.57 cfs @ 12.20 hrs, Volume= 0.757 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.305	98	Impervious
	1.601	74	>75% Grass cover, Good, HSG C
	1.906		Weighted Average
	1.601		84.00% Pervious Area
	0.305		16.00% Impervious Area

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

Subcatchment F8: F8



Summary for Subcatchment H5: H5

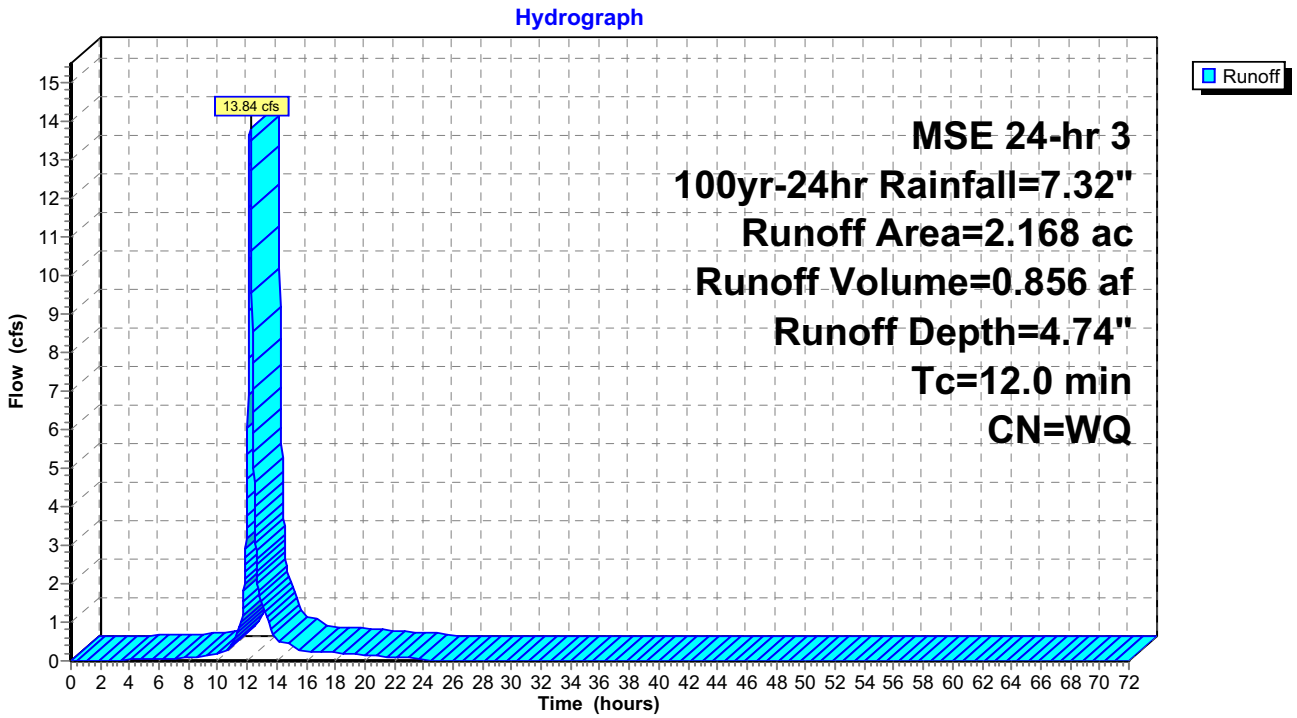
Runoff = 13.84 cfs @ 12.20 hrs, Volume= 0.856 af, Depth= 4.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.590	98	Impervious
	0.526	61	>75% Grass cover, Good, HSG B
	1.052	74	>75% Grass cover, Good, HSG C
	2.168		Weighted Average
	1.578		72.79% Pervious Area
	0.590		27.21% Impervious Area

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

Subcatchment H5: H5



Summary for Subcatchment H6: H6

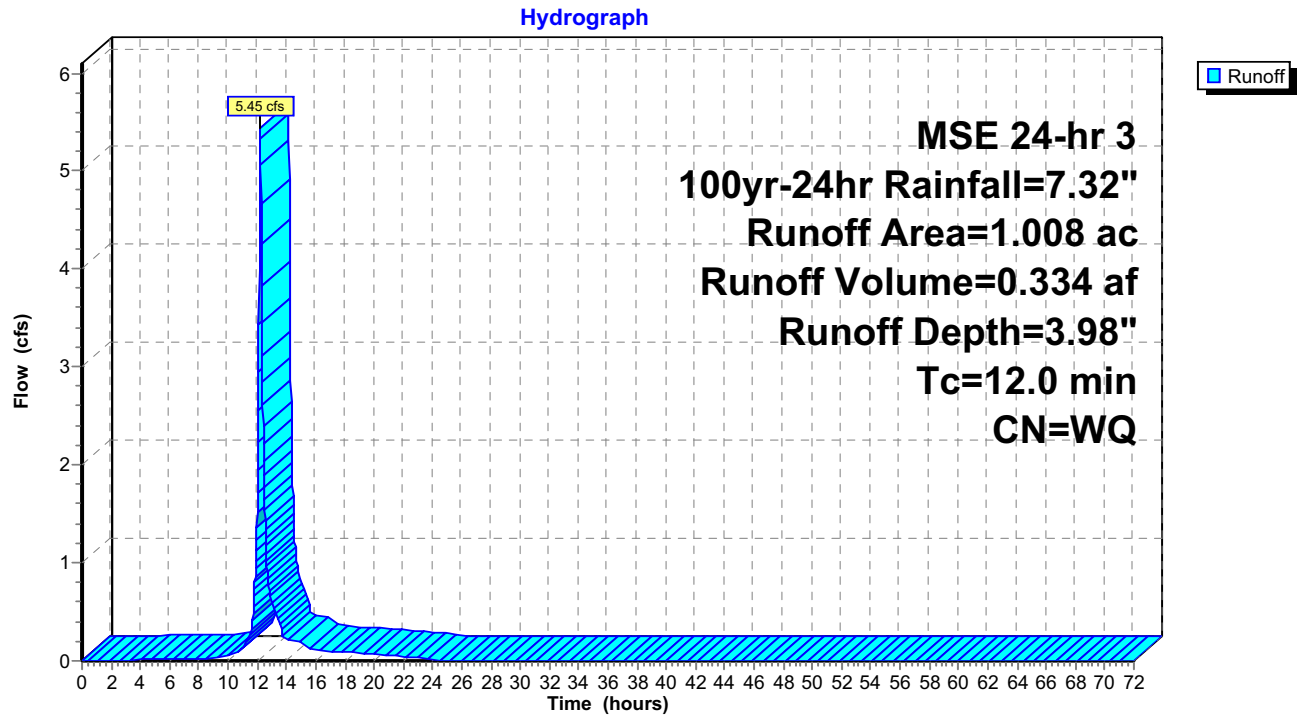
Runoff = 5.45 cfs @ 12.20 hrs, Volume= 0.334 af, Depth= 3.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.197	98	Impervious
	0.640	61	>75% Grass cover, Good, HSG B
	0.171	74	>75% Grass cover, Good, HSG C
	1.008		Weighted Average
	0.811		80.46% Pervious Area
	0.197		19.54% Impervious Area

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

Subcatchment H6: H6



Summary for Subcatchment H7: H7

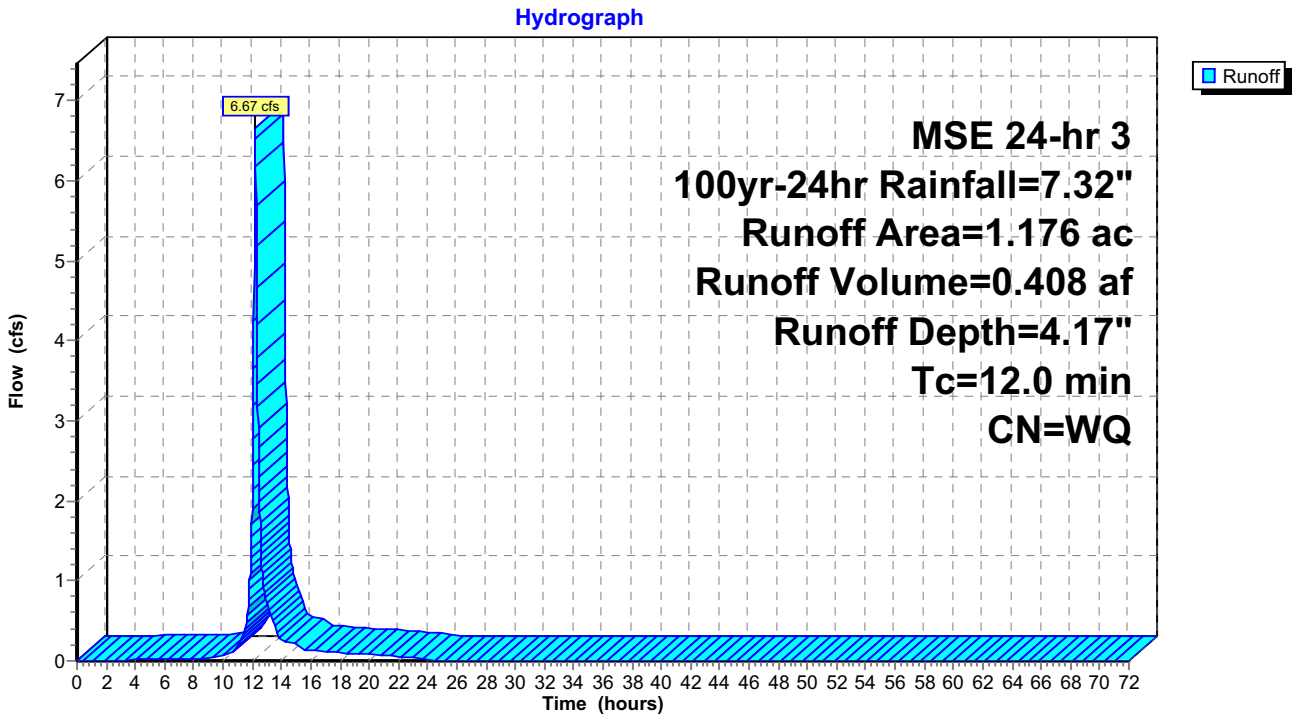
Runoff = 6.67 cfs @ 12.20 hrs, Volume= 0.408 af, Depth= 4.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.231	98	Impervious
	0.591	61	>75% Grass cover, Good, HSG B
	0.354	74	>75% Grass cover, Good, HSG C
	1.176		Weighted Average
	0.945		80.36% Pervious Area
	0.231		19.64% Impervious Area

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

Subcatchment H7: H7



Summary for Subcatchment I7: I7

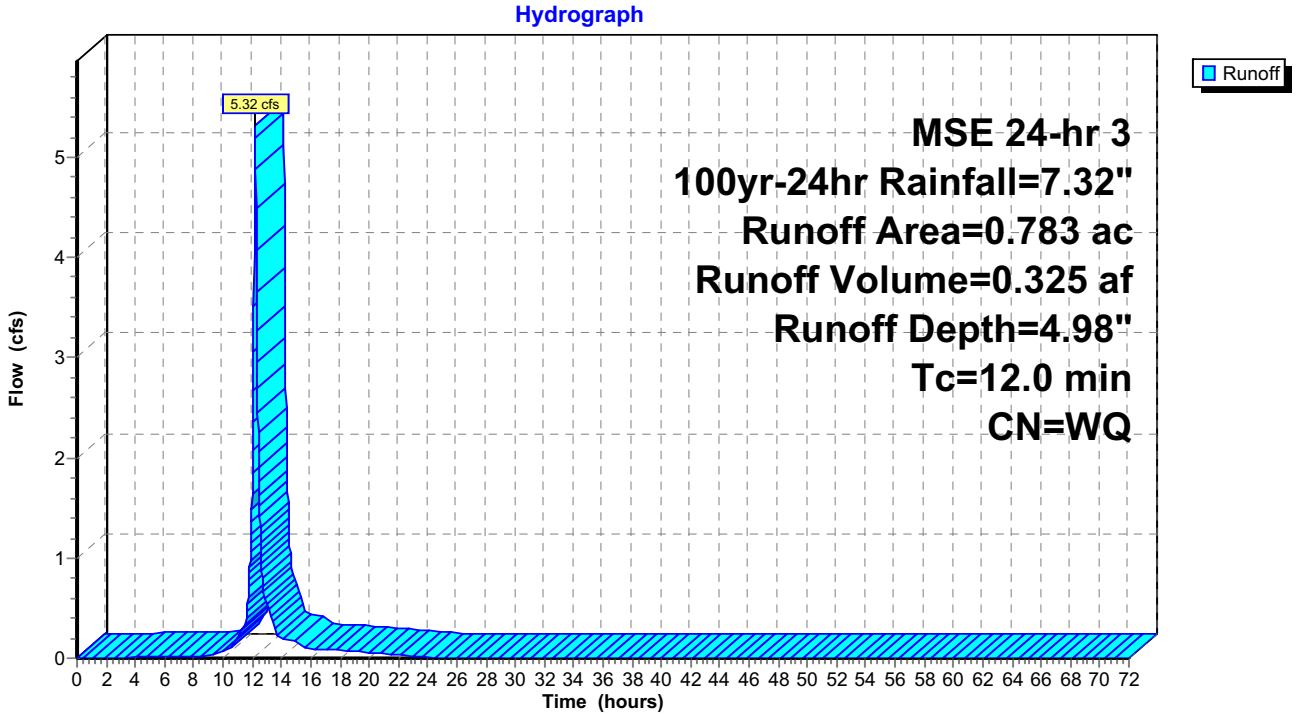
Runoff = 5.32 cfs @ 12.20 hrs, Volume= 0.325 af, Depth= 4.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.188	98	Impervious
	0.595	74	>75% Grass cover, Good, HSG C
	0.783		Weighted Average
	0.595		75.99% Pervious Area
	0.188		24.01% Impervious Area

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

Subcatchment I7: I7



Summary for Subcatchment I7_100: I7_100

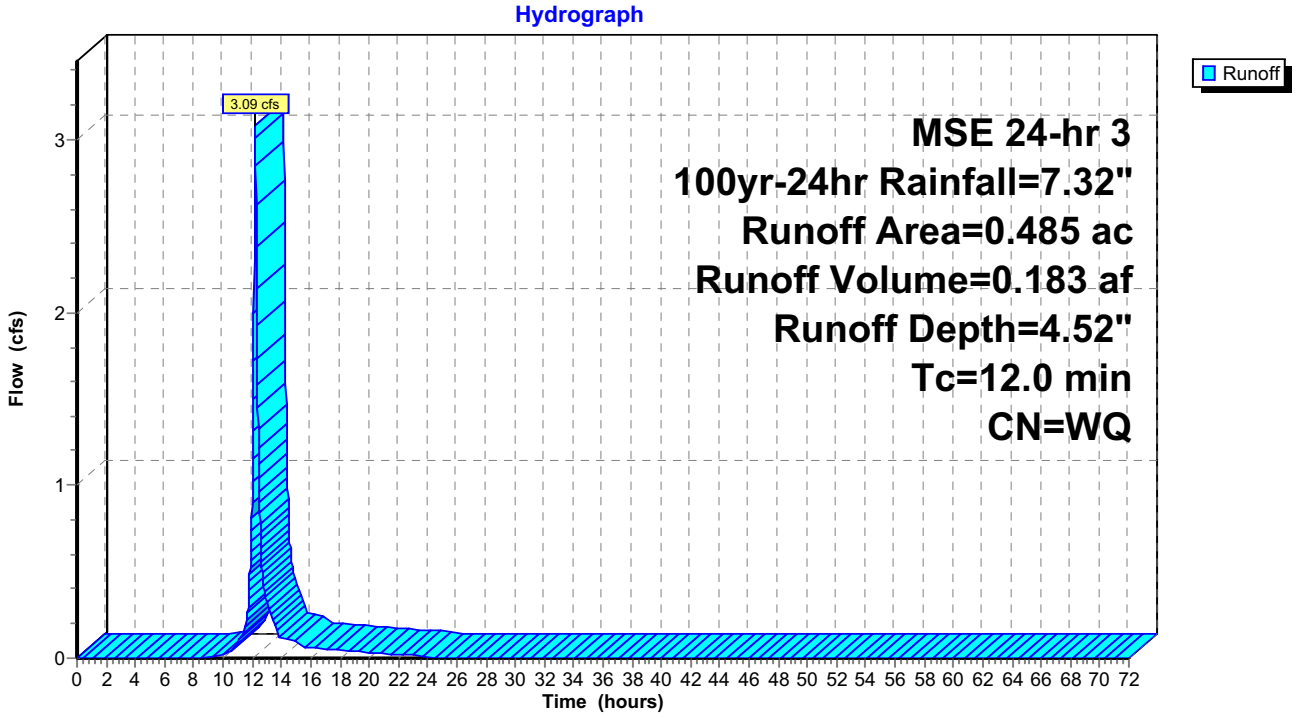
Runoff = 3.09 cfs @ 12.20 hrs, Volume= 0.183 af, Depth= 4.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.451	74	>75% Grass cover, Good, HSG C
*	0.034	98	Impervious
	0.485		Weighted Average
	0.451		92.99% Pervious Area
	0.034		7.01% Impervious Area

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

Subcatchment I7_100: I7_100



Summary for Subcatchment I8: I8

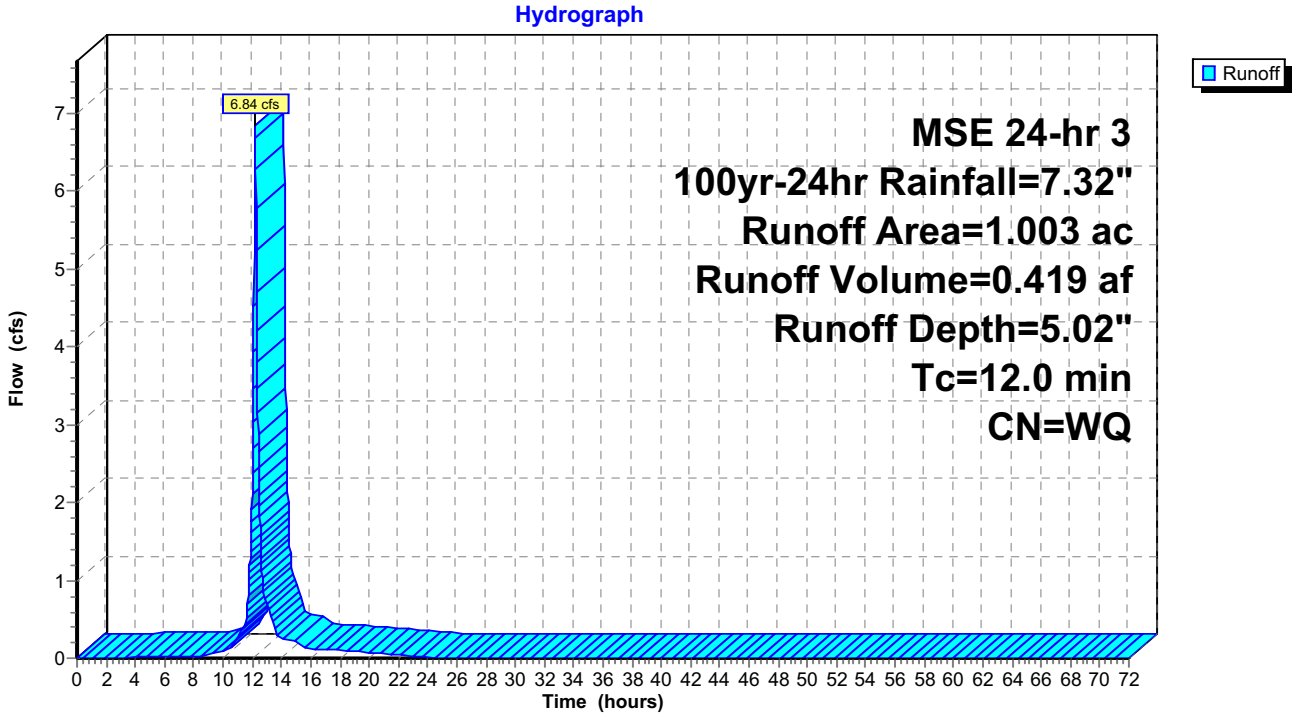
Runoff = 6.84 cfs @ 12.20 hrs, Volume= 0.419 af, Depth= 5.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.252	98	Impervious
	0.751	74	>75% Grass cover, Good, HSG C
	1.003		Weighted Average
	0.751		74.88% Pervious Area
	0.252		25.12% Impervious Area

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

Subcatchment I8: I8



Summary for Subcatchment I8_100: I8_100

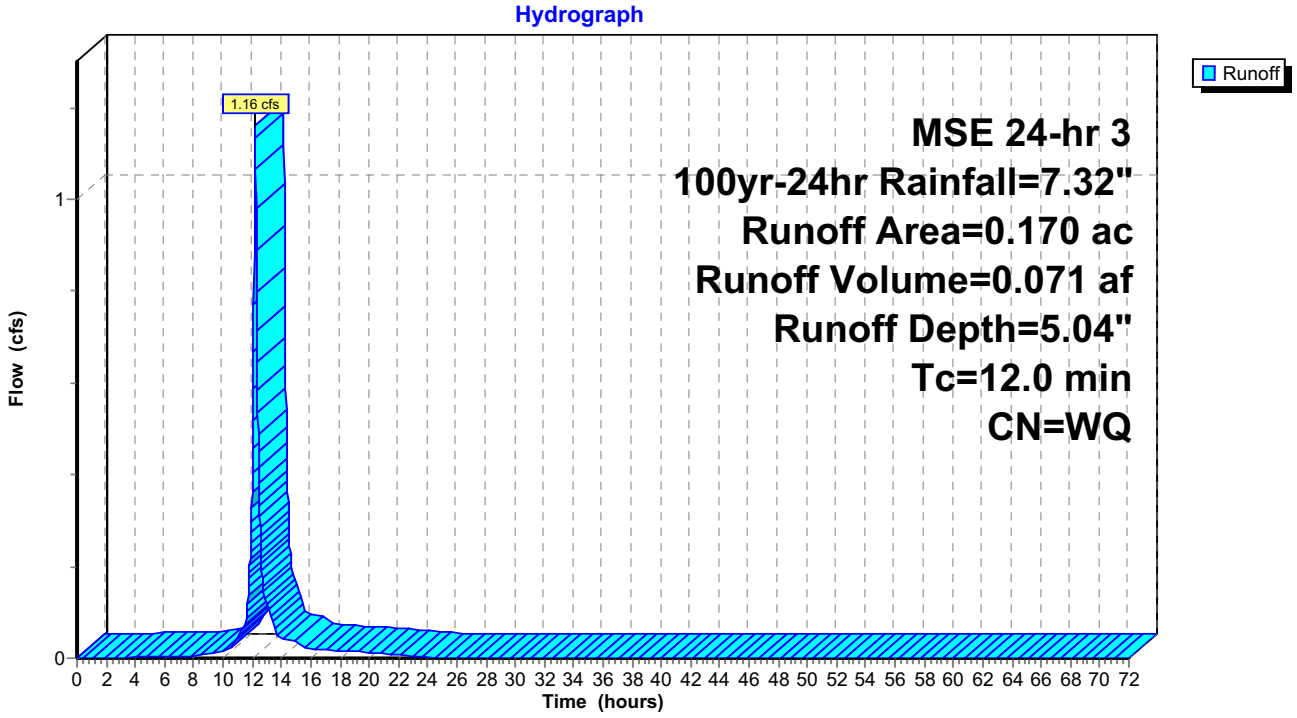
Runoff = 1.16 cfs @ 12.20 hrs, Volume= 0.071 af, Depth= 5.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.126	74	>75% Grass cover, Good, HSG C
*	0.044	98	Impervious
	0.170		Weighted Average
	0.126		74.12% Pervious Area
	0.044		25.88% Impervious Area

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

Subcatchment I8_100: I8_100



Summary for Subcatchment I9: I9

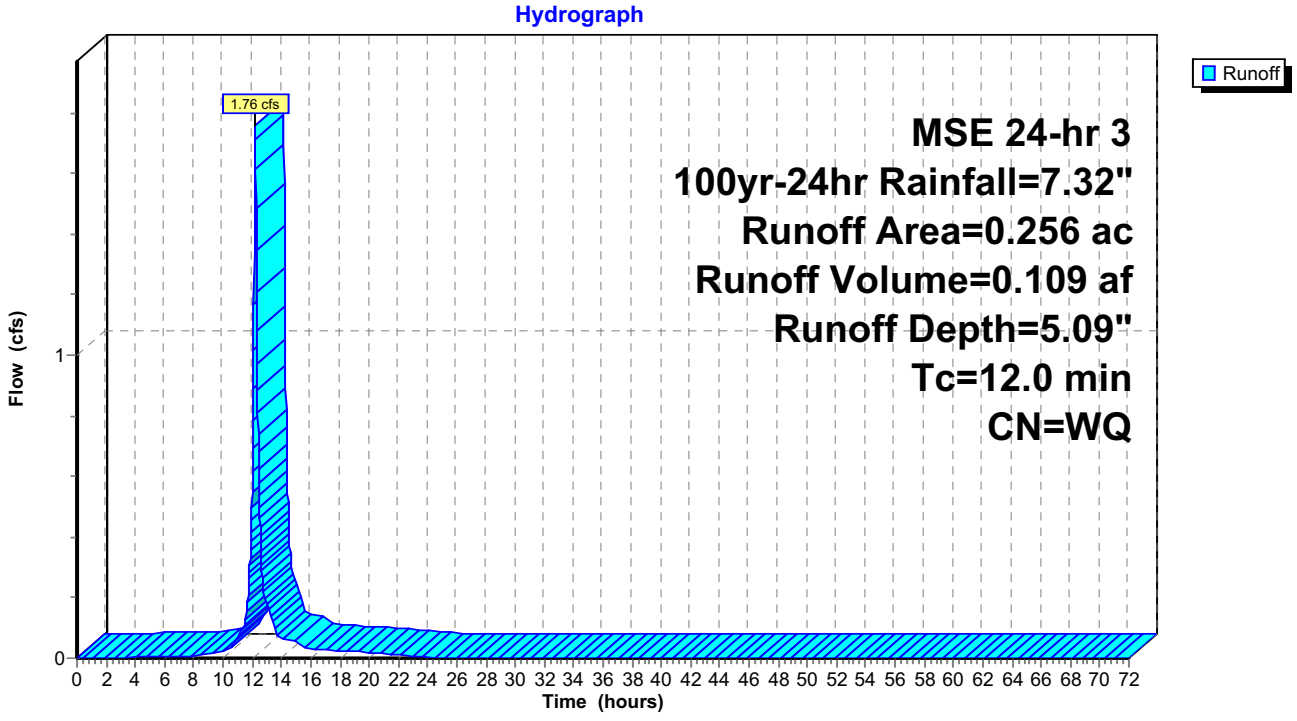
Runoff = 1.76 cfs @ 12.20 hrs, Volume= 0.109 af, Depth= 5.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.071	98	Impervious
	0.185	74	>75% Grass cover, Good, HSG C
	0.256		Weighted Average
	0.185		72.27% Pervious Area
	0.071		27.73% Impervious Area

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

Subcatchment I9: I9



Summary for Subcatchment J3: J3

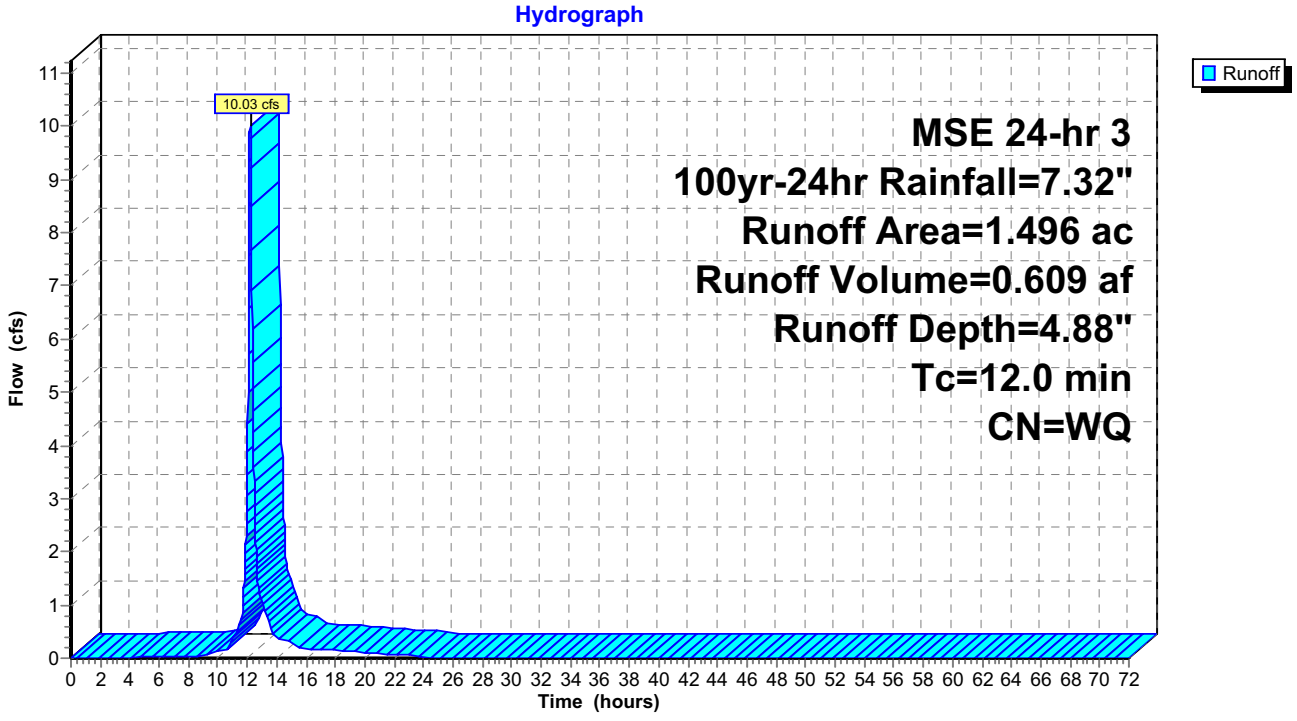
Runoff = 10.03 cfs @ 12.20 hrs, Volume= 0.609 af, Depth= 4.88"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.304	98	Impervious
	1.192	74	>75% Grass cover, Good, HSG C
	1.496		Weighted Average
	1.192		79.68% Pervious Area
	0.304		20.32% Impervious Area

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

Subcatchment J3: J3



Summary for Subcatchment J4: J4

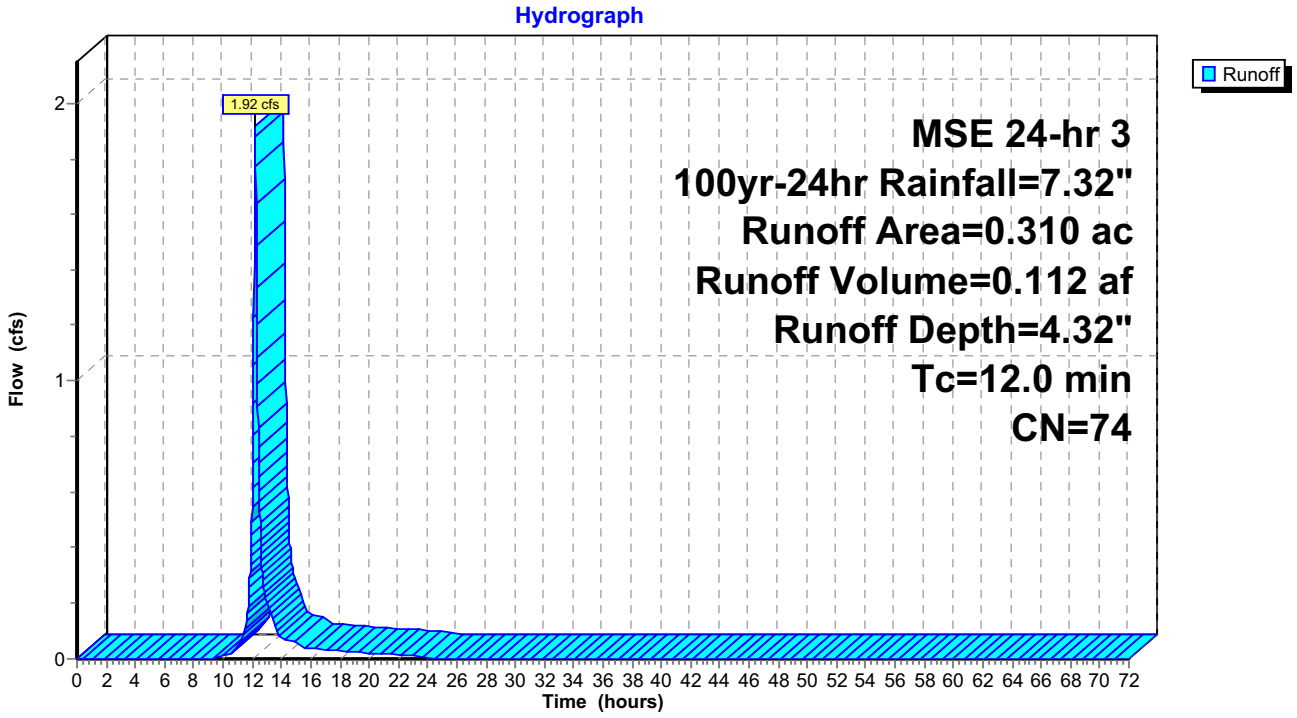
Runoff = 1.92 cfs @ 12.20 hrs, Volume= 0.112 af, Depth= 4.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

Area (ac)	CN	Description
0.310	74	>75% Grass cover, Good, HSG C
0.310		100.00% Pervious Area

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

Subcatchment J4: J4



Summary for Subcatchment J5: J5

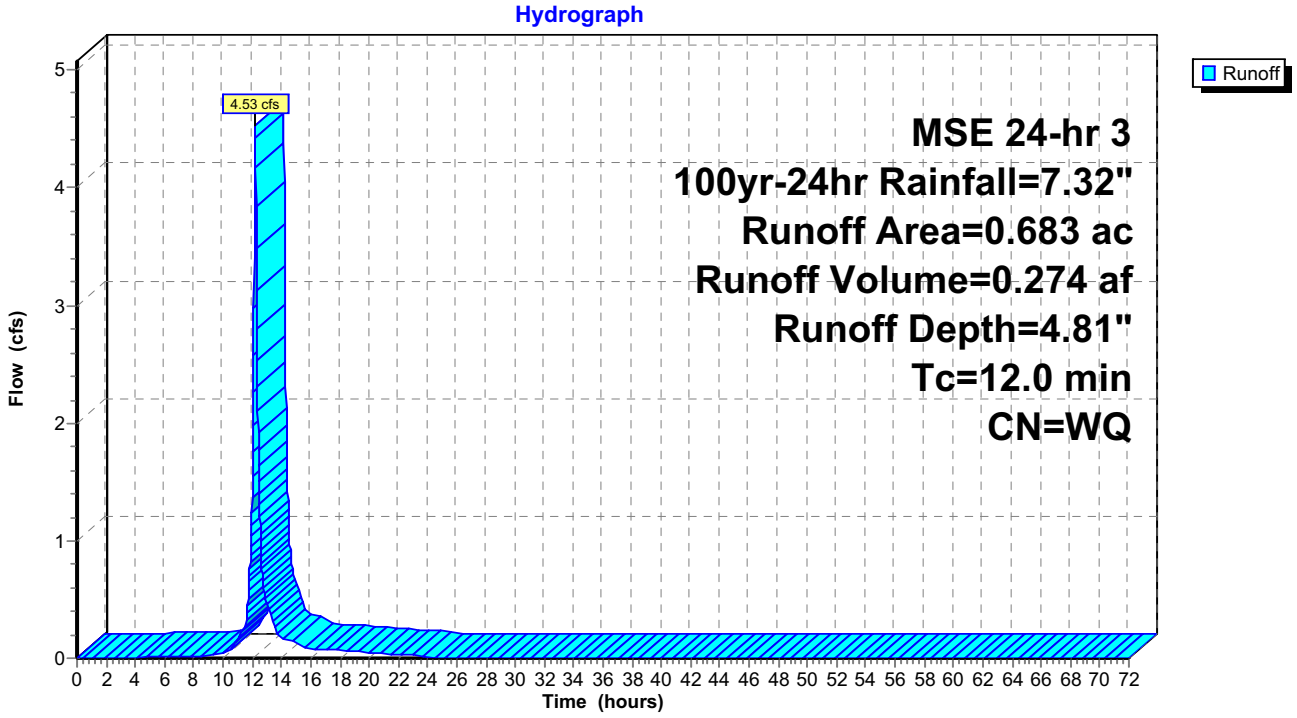
Runoff = 4.53 cfs @ 12.20 hrs, Volume= 0.274 af, Depth= 4.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.121	98	Impervious
	0.562	74	>75% Grass cover, Good, HSG C
	0.683		Weighted Average
	0.562		82.28% Pervious Area
	0.121		17.72% Impervious Area

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

Subcatchment J5: J5



Summary for Subcatchment L10: L10

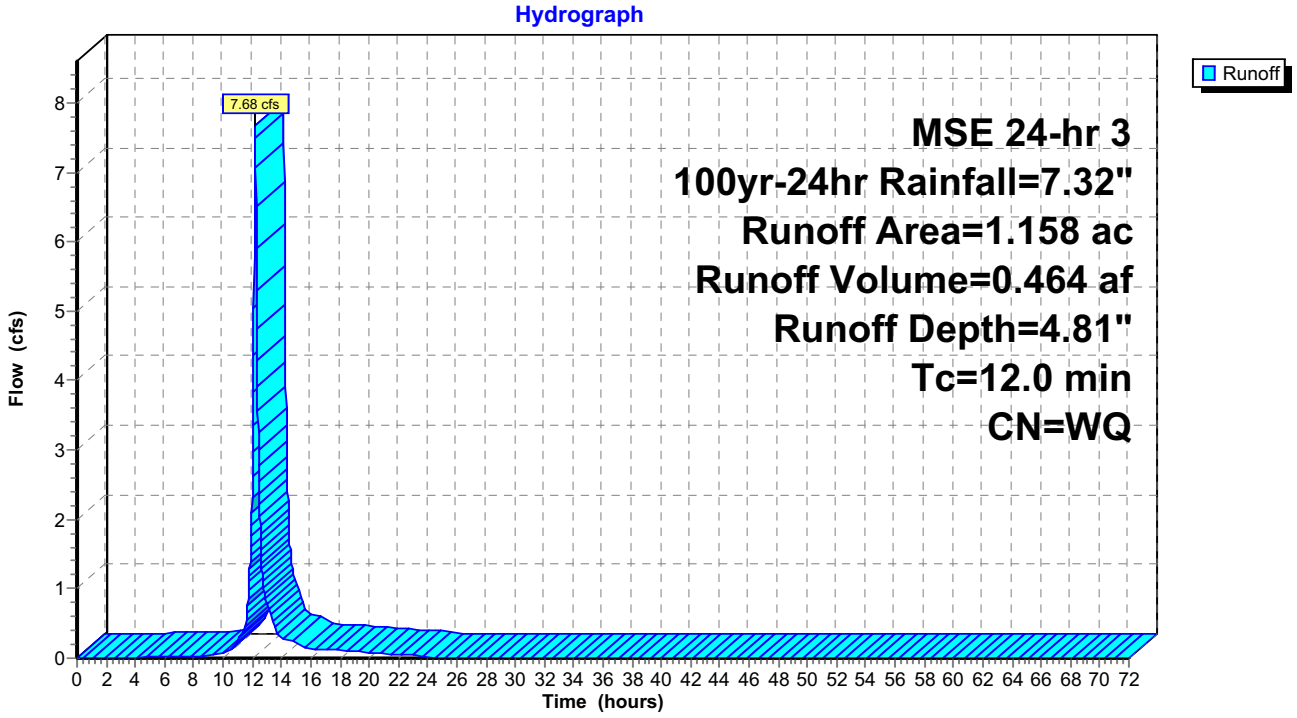
Runoff = 7.68 cfs @ 12.20 hrs, Volume= 0.464 af, Depth= 4.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.203	98	Impervious
	0.955	74	>75% Grass cover, Good, HSG C
	1.158		Weighted Average
	0.955		82.47% Pervious Area
	0.203		17.53% Impervious Area

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

Subcatchment L10: L10



Summary for Subcatchment L4: L4

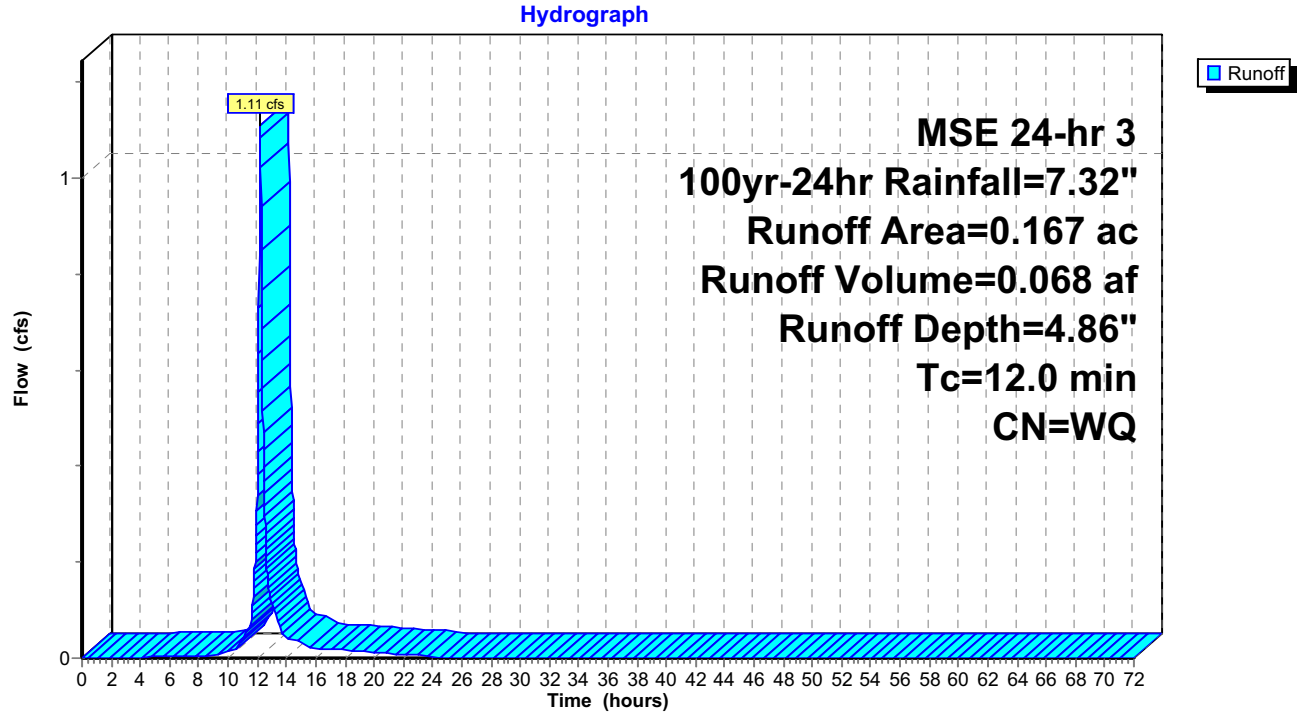
Runoff = 1.11 cfs @ 12.20 hrs, Volume= 0.068 af, Depth= 4.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.002	98	Impervious
	0.005	61	>75% Grass cover, Good, HSG B
	0.127	74	>75% Grass cover, Good, HSG C
*	0.033	98	Impervious
	0.167		Weighted Average
	0.132		79.04% Pervious Area
	0.035		20.96% Impervious Area

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

Subcatchment L4: L4



Summary for Subcatchment L5: L5

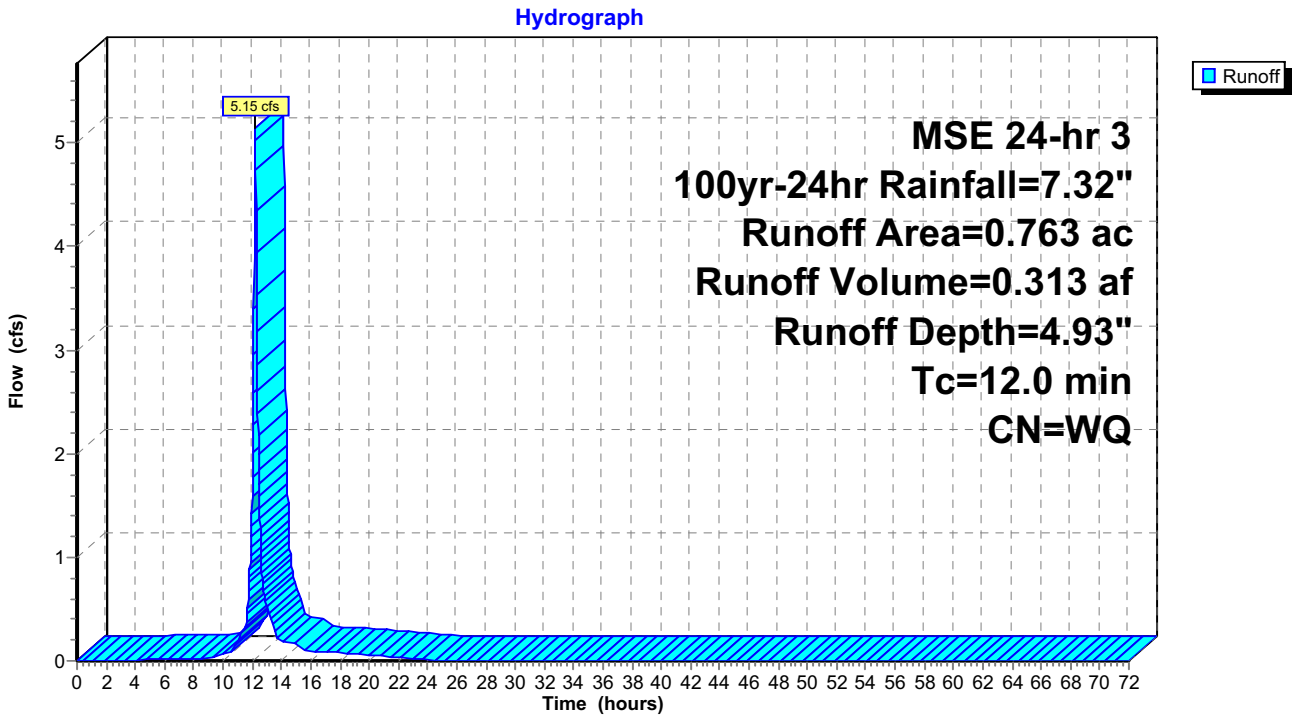
Runoff = 5.15 cfs @ 12.20 hrs, Volume= 0.313 af, Depth= 4.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.101	98	Impervious
	0.595	74	>75% Grass cover, Good, HSG C
*	0.067	98	Impervious
	0.763		Weighted Average
	0.595		77.98% Pervious Area
	0.168		22.02% Impervious Area

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

Subcatchment L5: L5



Summary for Subcatchment L6: L6

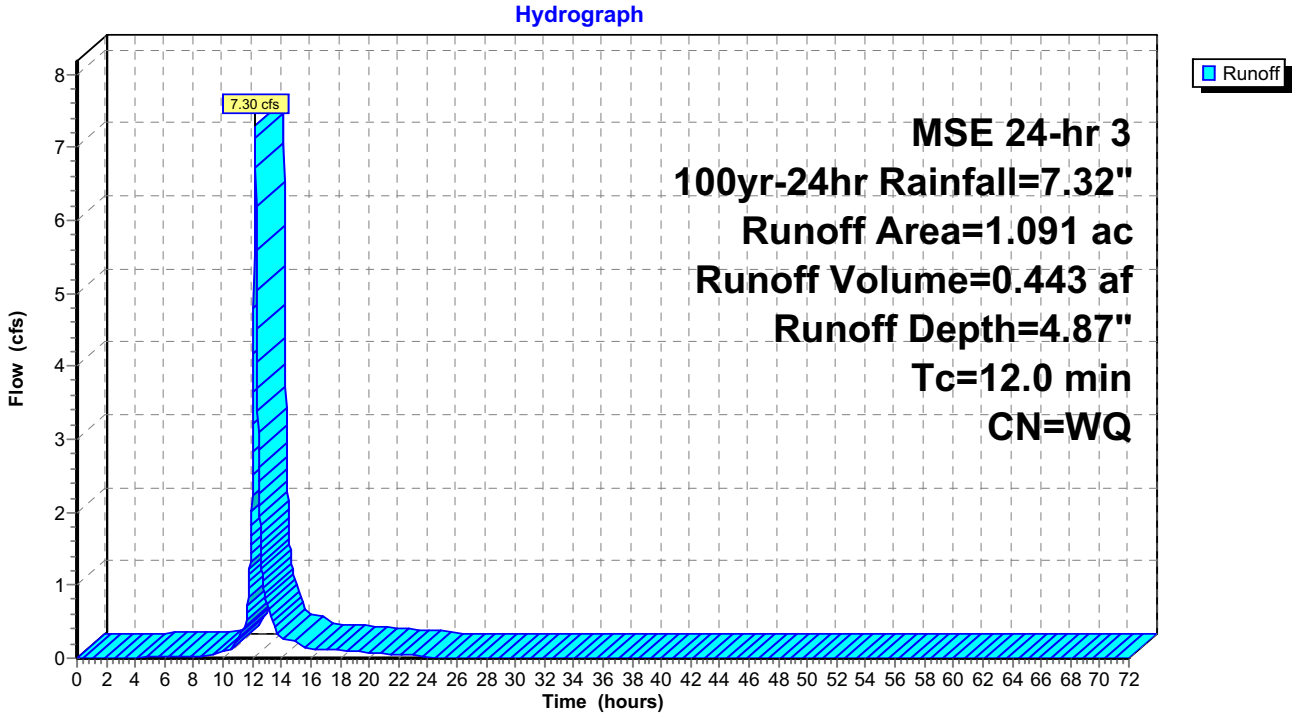
Runoff = 7.30 cfs @ 12.20 hrs, Volume= 0.443 af, Depth= 4.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.218	98	Impervious
	0.873	74	>75% Grass cover, Good, HSG C
	1.091		Weighted Average
	0.873		80.02% Pervious Area
	0.218		19.98% Impervious Area

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

Subcatchment L6: L6



Summary for Subcatchment L7: L7

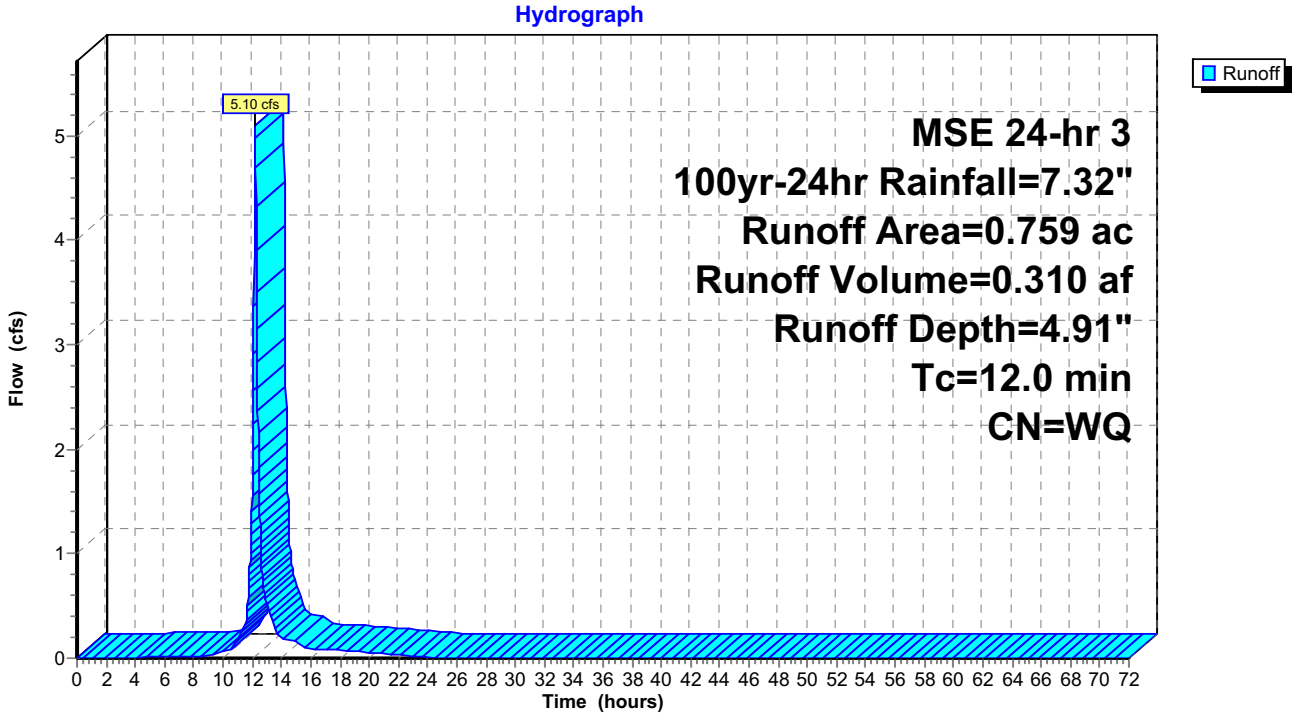
Runoff = 5.10 cfs @ 12.20 hrs, Volume= 0.310 af, Depth= 4.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.161	98	Impervious
	0.598	74	>75% Grass cover, Good, HSG C
	0.759		Weighted Average
	0.598		78.79% Pervious Area
	0.161		21.21% Impervious Area

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

Subcatchment L7: L7



Summary for Subcatchment L8: L8

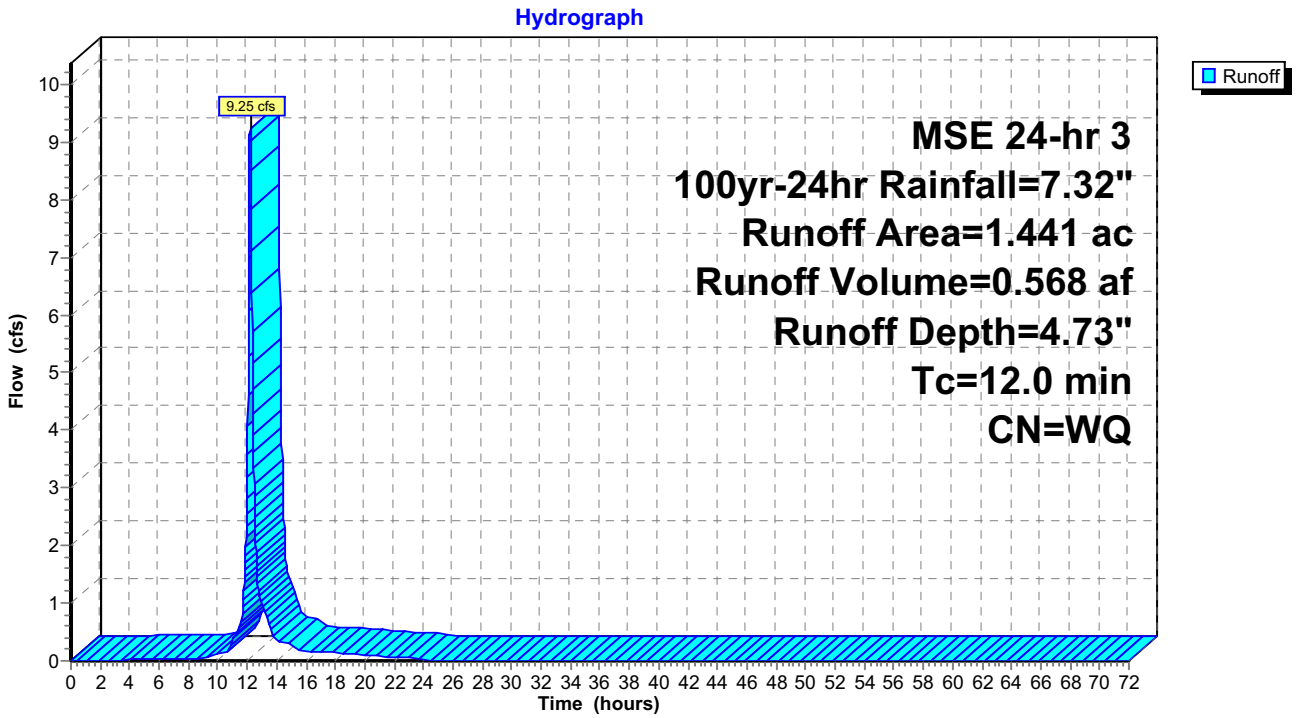
Runoff = 9.25 cfs @ 12.20 hrs, Volume= 0.568 af, Depth= 4.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.318	98	Impervious
	0.086	39	>75% Grass cover, Good, HSG A
	1.037	74	>75% Grass cover, Good, HSG C
	1.441		Weighted Average
	1.123		77.93% Pervious Area
	0.318		22.07% Impervious Area

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

Subcatchment L8: L8



Summary for Subcatchment L9: L9

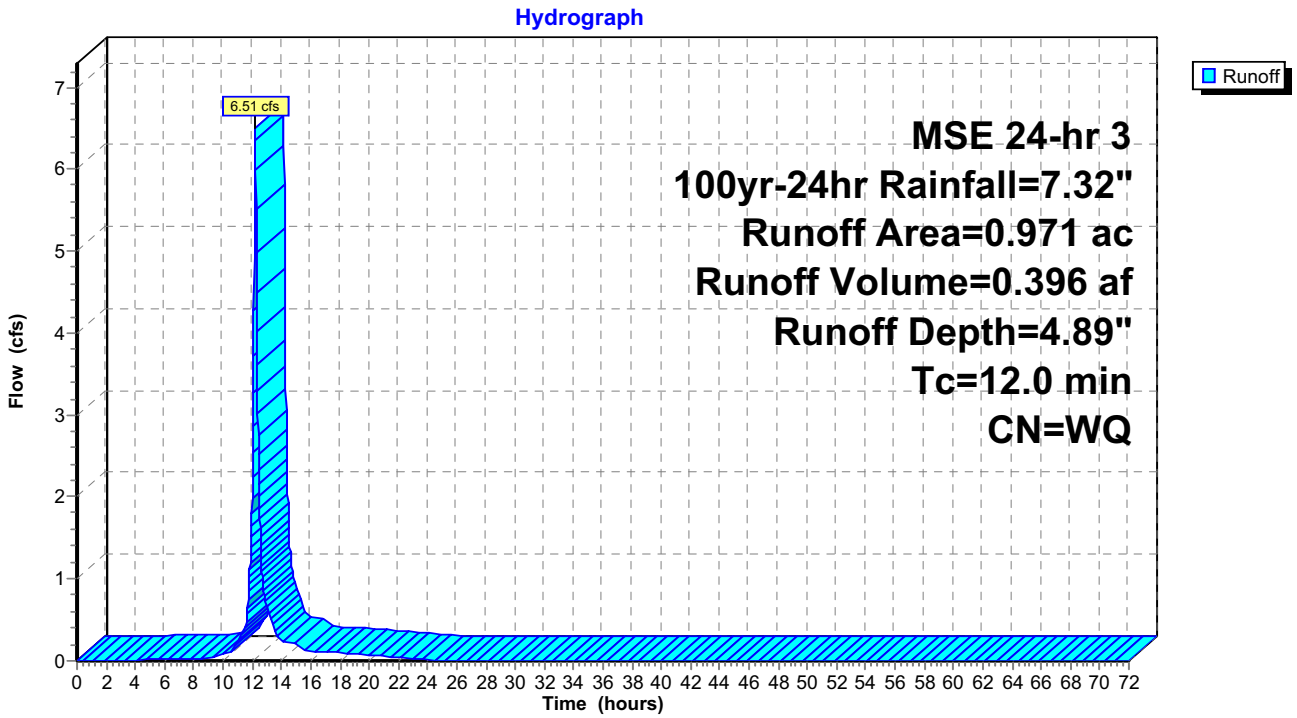
Runoff = 6.51 cfs @ 12.20 hrs, Volume= 0.396 af, Depth= 4.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.205	98	Impervious
	0.003	39	>75% Grass cover, Good, HSG A
	0.763	74	>75% Grass cover, Good, HSG C
	0.971		Weighted Average
	0.766		78.89% Pervious Area
	0.205		21.11% Impervious Area

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

Subcatchment L9: L9



Summary for Subcatchment O10: O10

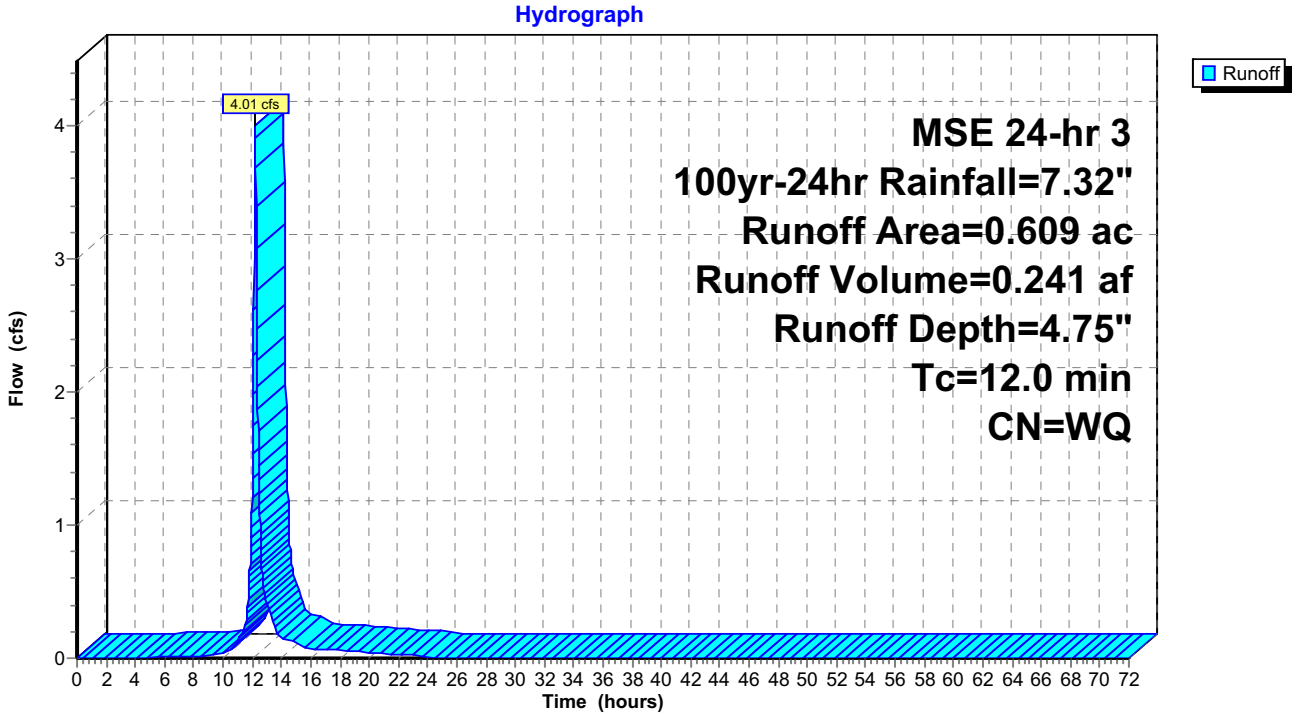
Runoff = 4.01 cfs @ 12.20 hrs, Volume= 0.241 af, Depth= 4.75"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.094	98	Impervious
	0.515	74	>75% Grass cover, Good, HSG C
	0.609		Weighted Average
	0.515		84.56% Pervious Area
	0.094		15.44% Impervious Area

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

Subcatchment O10: O10



Summary for Subcatchment O8: O8

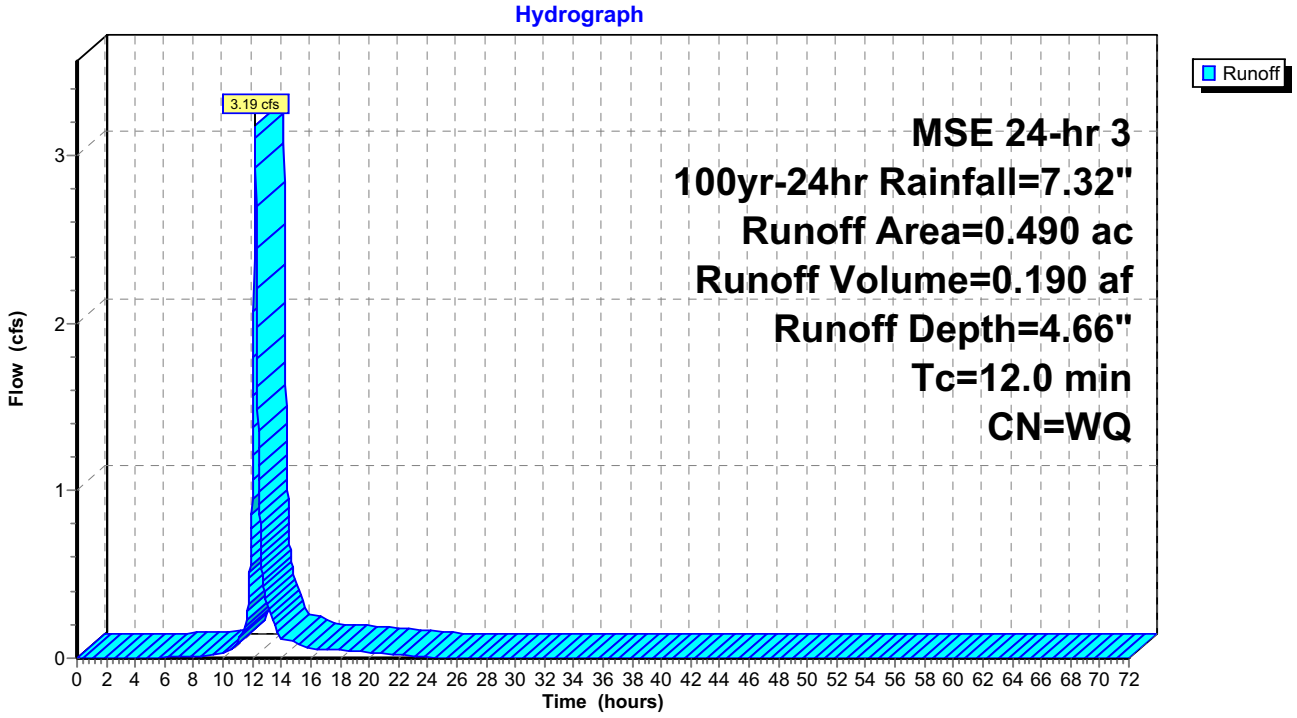
Runoff = 3.19 cfs @ 12.20 hrs, Volume= 0.190 af, Depth= 4.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.060	98	Impervious
	0.430	74	>75% Grass cover, Good, HSG C
	0.490		Weighted Average
	0.430		87.76% Pervious Area
	0.060		12.24% Impervious Area

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

Subcatchment O8: O8



Summary for Subcatchment O9: O9

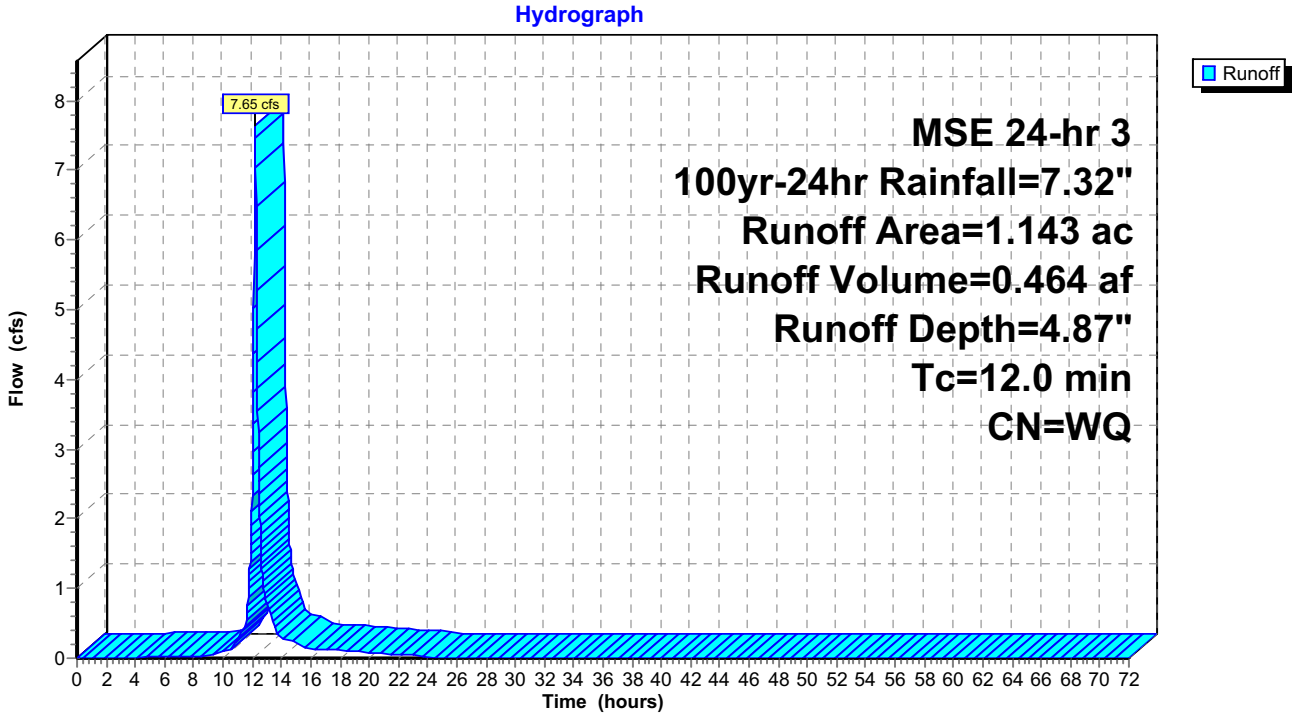
Runoff = 7.65 cfs @ 12.20 hrs, Volume= 0.464 af, Depth= 4.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	0.227	98	Impervious
	0.916	74	>75% Grass cover, Good, HSG C
	1.143		Weighted Average
	0.916		80.14% Pervious Area
	0.227		19.86% Impervious Area

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

Subcatchment O9: O9



Summary for Subcatchment W6: W6

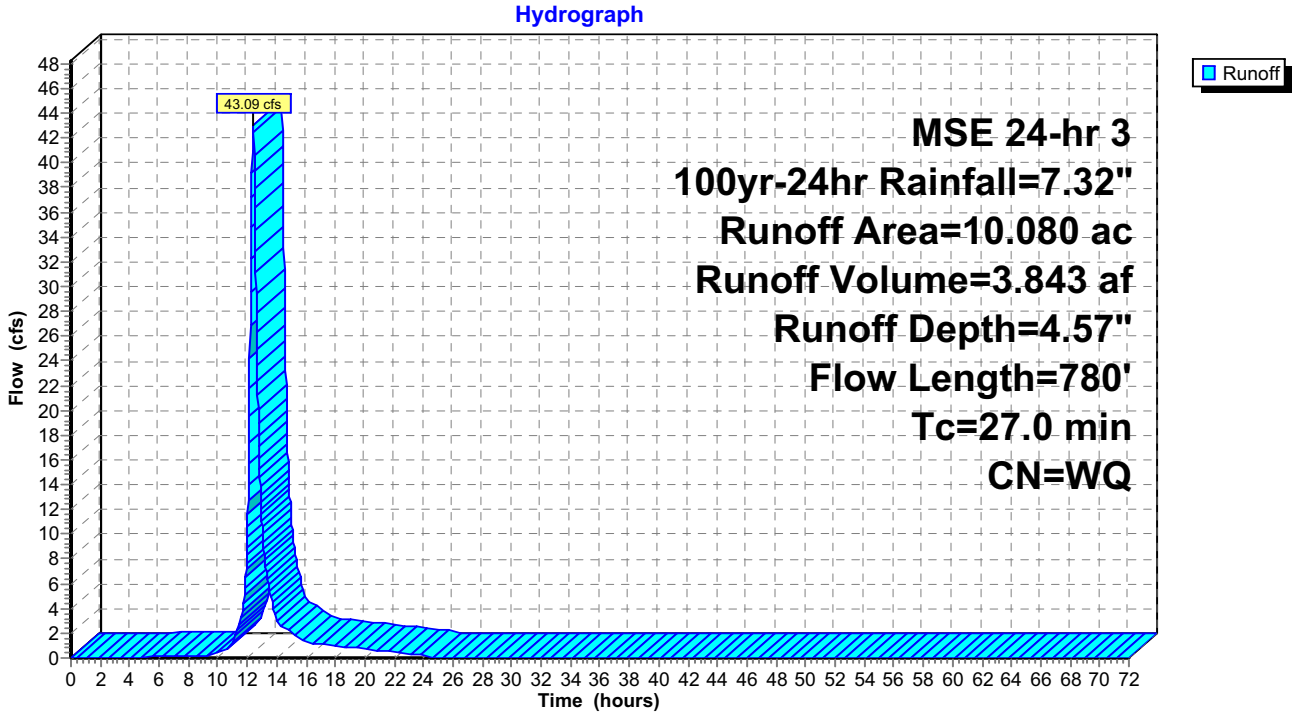
Runoff = 43.09 cfs @ 12.38 hrs, Volume= 3.843 af, Depth= 4.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
*	1.008	98	Impervious
	6.933	74	>75% Grass cover, Good, HSG C
	2.139	73	Woods, Fair, HSG C
	10.080		Weighted Average
	9.072		90.00% Pervious Area
	1.008		10.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.4	300	0.0330	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
6.6	480	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
27.0	780	Total			

Subcatchment W6: W6



Summary for Subcatchment W6_100: W6_100

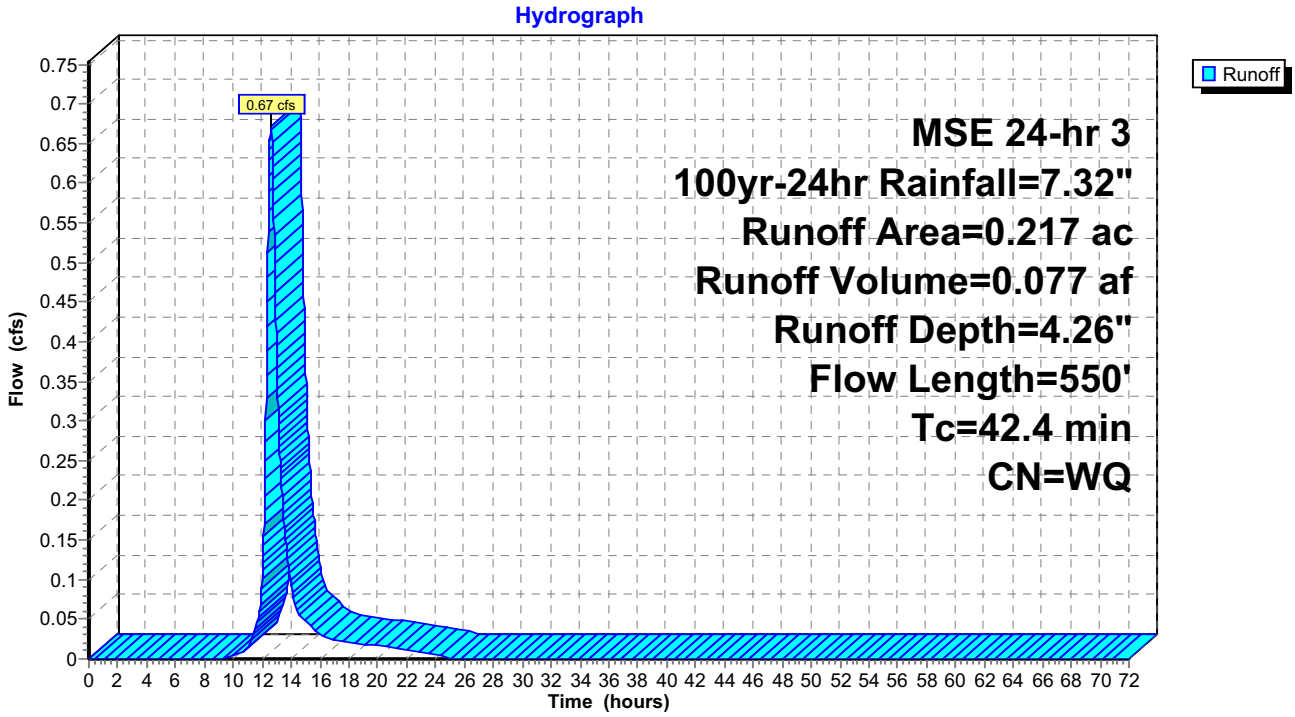
Runoff = 0.67 cfs @ 12.58 hrs, Volume= 0.077 af, Depth= 4.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

Area (ac)	CN	Description
0.094	74	>75% Grass cover, Good, HSG C
0.123	73	Woods, Fair, HSG C
0.217		Weighted Average
0.217		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.8	300	0.0470	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.87"
3.6	250	0.0280	1.17		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
42.4	550	Total			

Subcatchment W6_100: W6_100



Summary for Subcatchment W6_101: W6_101

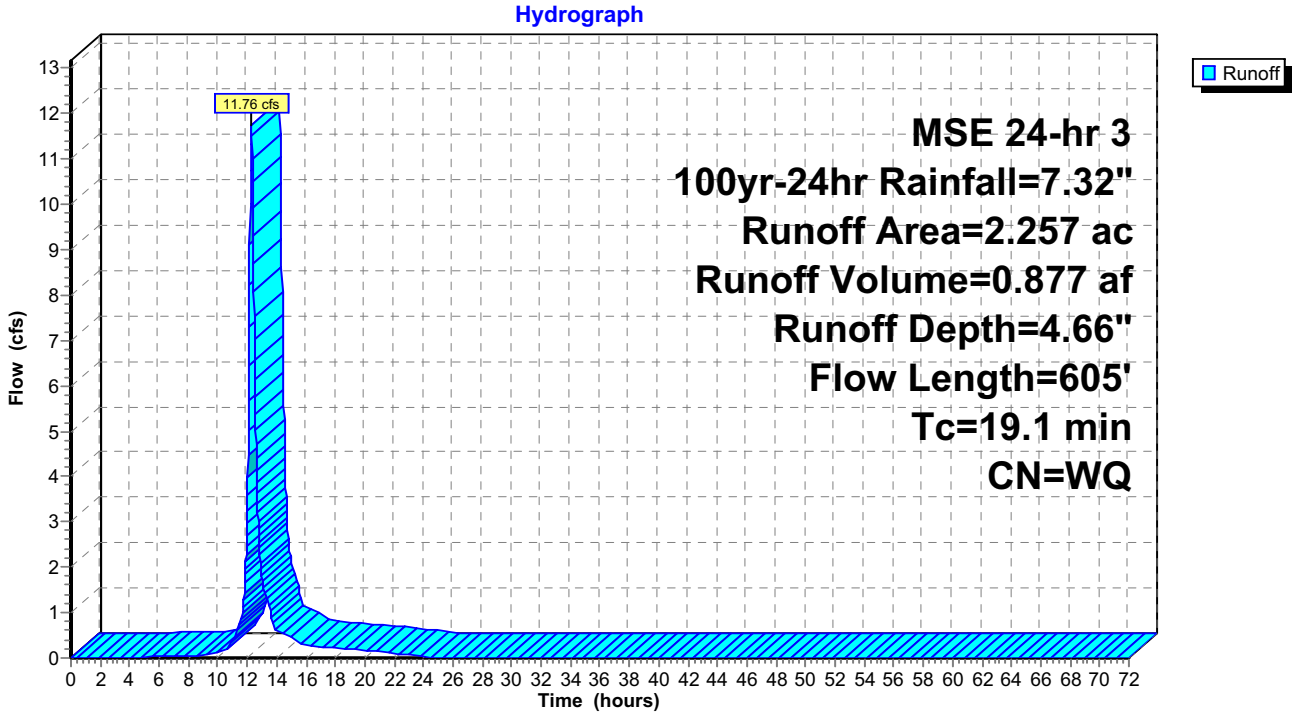
Runoff = 11.76 cfs @ 12.28 hrs, Volume= 0.877 af, Depth= 4.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	1.497	74	>75% Grass cover, Good, HSG C
*	0.297	98	Impervious
	0.463	73	Woods, Fair, HSG C
	2.257		Weighted Average
	1.960		86.84% Pervious Area
	0.297		13.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	295	0.0680	0.33		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
4.0	310	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
19.1	605	Total			

Subcatchment W6_101: W6_101



Summary for Subcatchment W6_102: W6_102

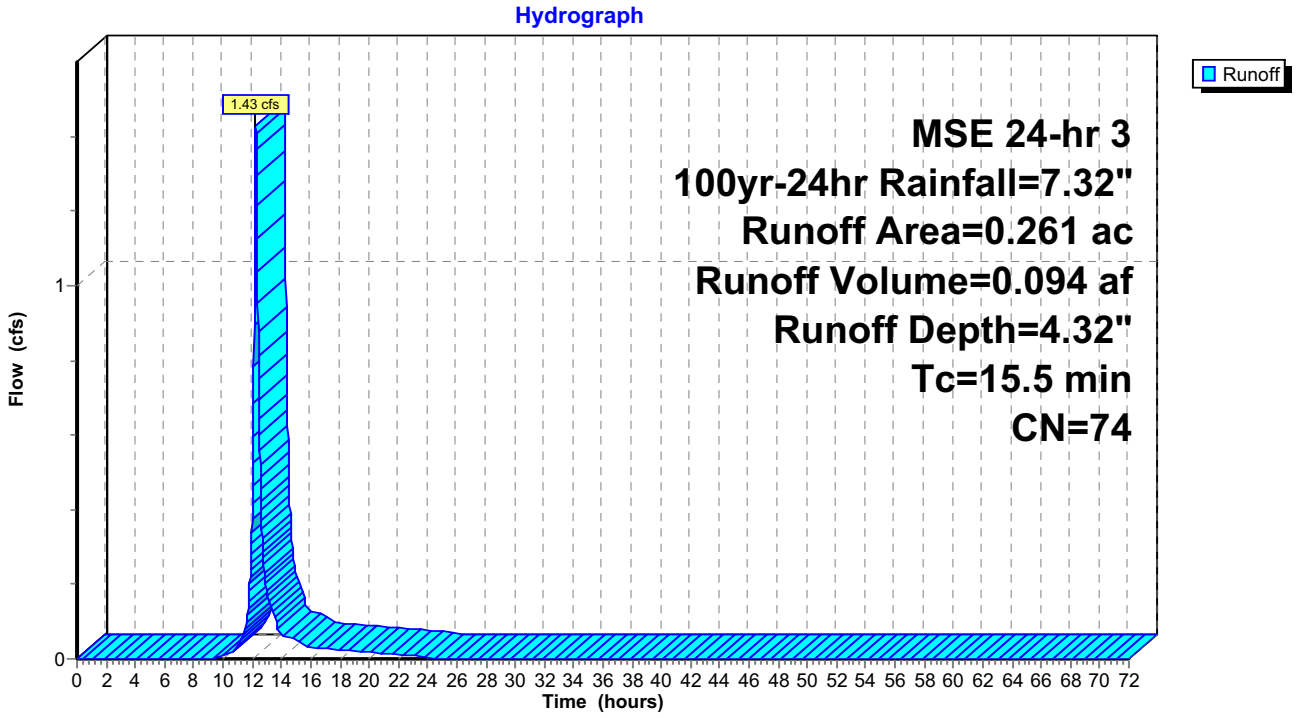
Runoff = 1.43 cfs @ 12.24 hrs, Volume= 0.094 af, Depth= 4.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

Area (ac)	CN	Description
0.261	74	>75% Grass cover, Good, HSG C
0.261		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5					**Direct Entry, From Existing Conditions (EX_5)**

Subcatchment W6_102: W6_102



Summary for Subcatchment W9: W9

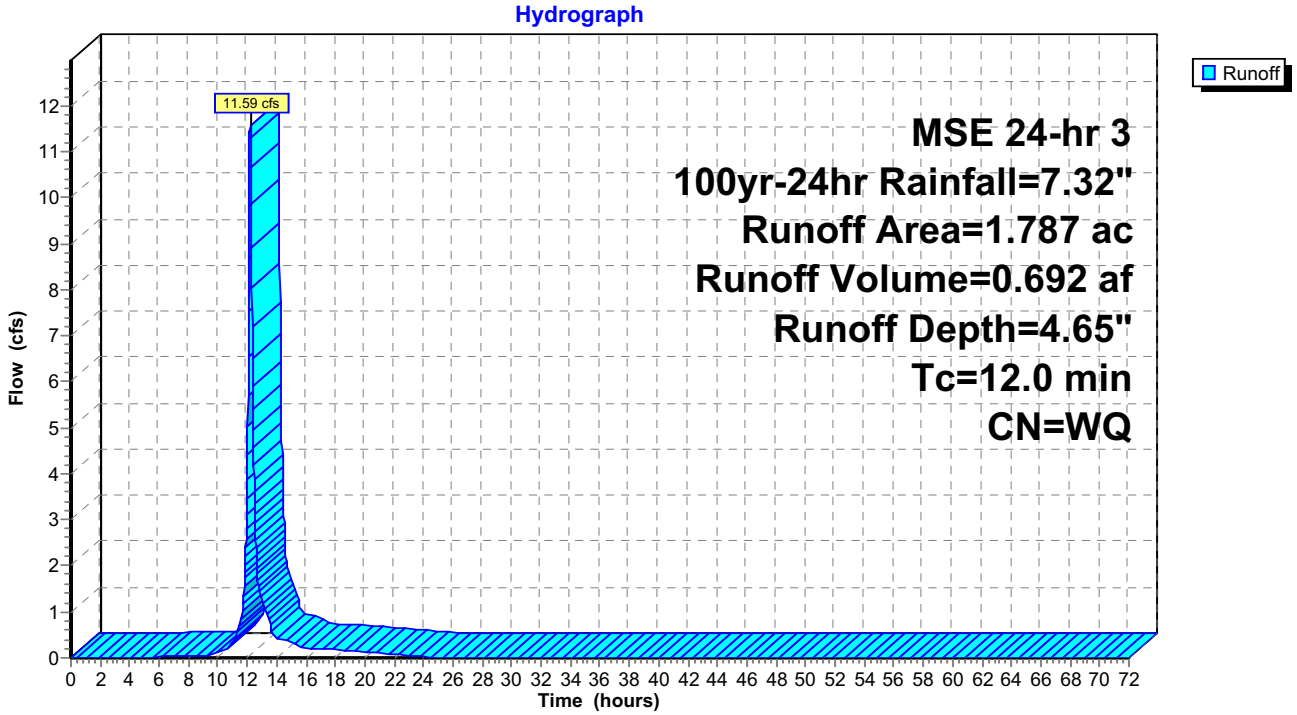
Runoff = 11.59 cfs @ 12.20 hrs, Volume= 0.692 af, Depth= 4.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	1.416	74	>75% Grass cover, Good, HSG C
*	0.217	98	Pond
	0.154	73	Woods, Fair, HSG C
	1.787		Weighted Average
	1.570		87.86% Pervious Area
	0.217		12.14% Impervious Area

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

Subcatchment W9: W9



Summary for Subcatchment W9_100: W9_100

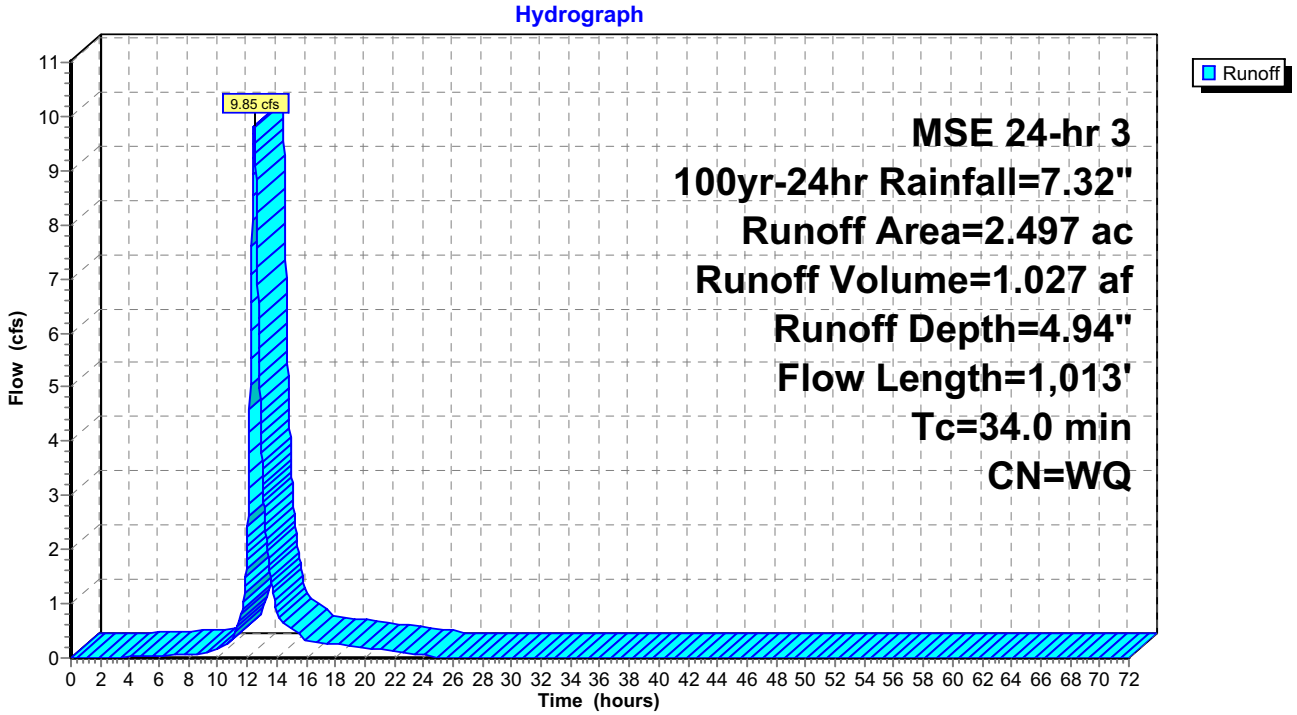
Runoff = 9.85 cfs @ 12.47 hrs, Volume= 1.027 af, Depth= 4.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	1.912	74	>75% Grass cover, Good, HSG C
*	0.557	98	Impervious
	0.028	73	Woods, Fair, HSG C
	2.497		Weighted Average
	1.940		77.69% Pervious Area
	0.557		22.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.2	223	0.0450	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"
19.8	790	0.0090	0.66		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
34.0	1,013	Total			

Subcatchment W9_100: W9_100



Summary for Subcatchment W9_101: W9_101

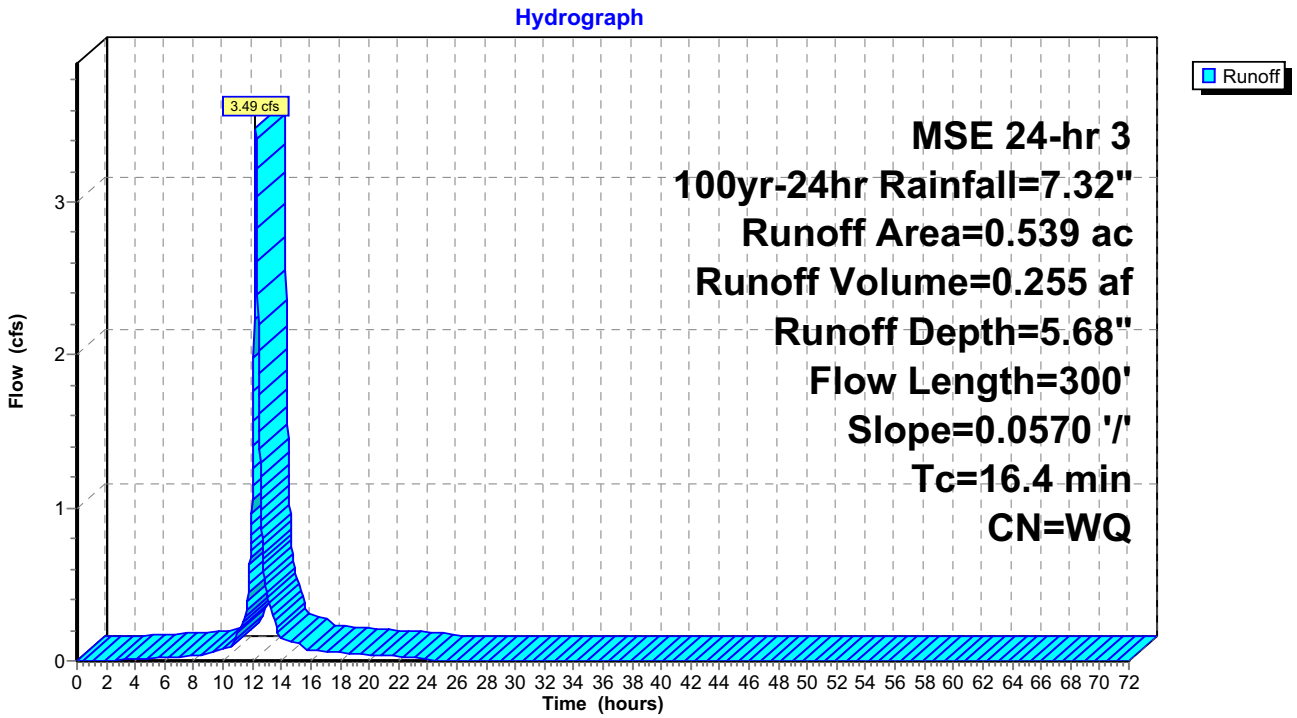
Runoff = 3.49 cfs @ 12.24 hrs, Volume= 0.255 af, Depth= 5.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
MSE 24-hr 3 100yr-24hr Rainfall=7.32"

	Area (ac)	CN	Description
	0.274	74	>75% Grass cover, Good, HSG C
*	0.265	98	Impervious
	0.539		Weighted Average
	0.274		50.83% Pervious Area
	0.265		49.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	300	0.0570	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.87"

Subcatchment W9_101: W9_101



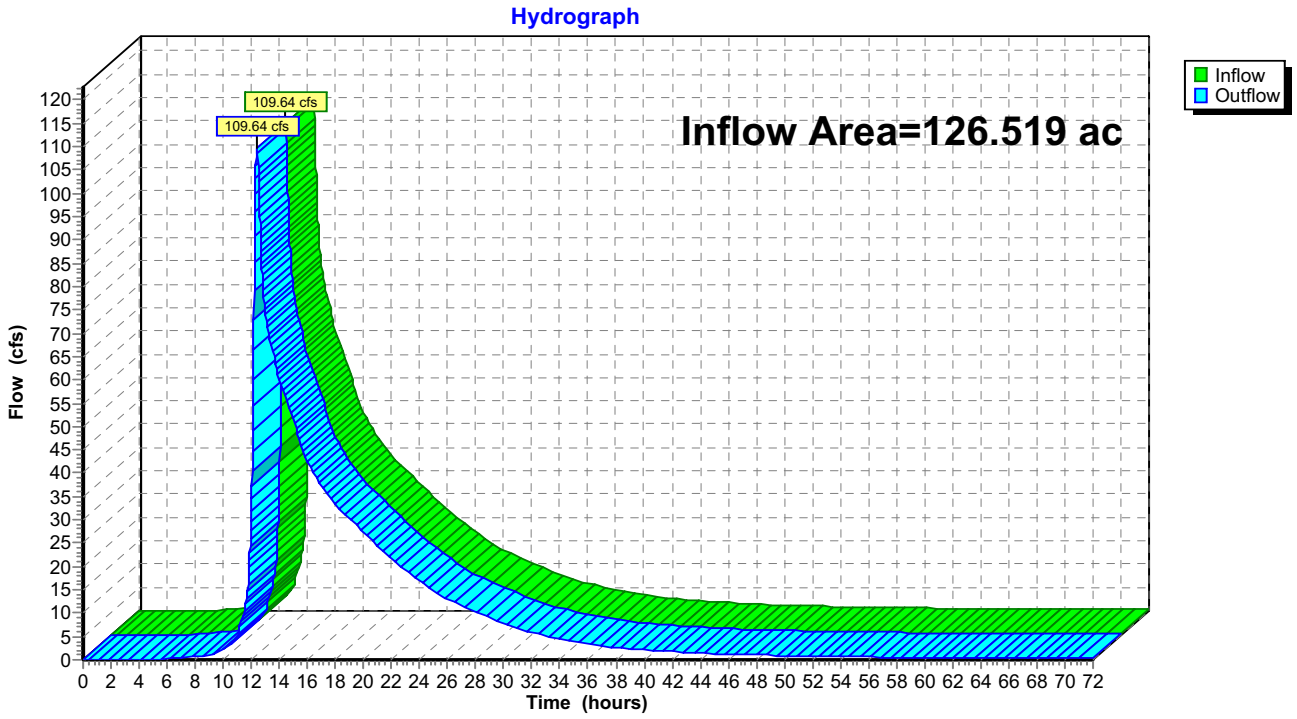
Summary for Reach 1R: Bassett Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 126.519 ac, 32.01% Impervious, Inflow Depth > 4.97" for 100yr-24hr event
Inflow = 109.64 cfs @ 12.39 hrs, Volume= 52.379 af
Outflow = 109.64 cfs @ 12.39 hrs, Volume= 52.379 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 1R: Bassett Creek Watershed



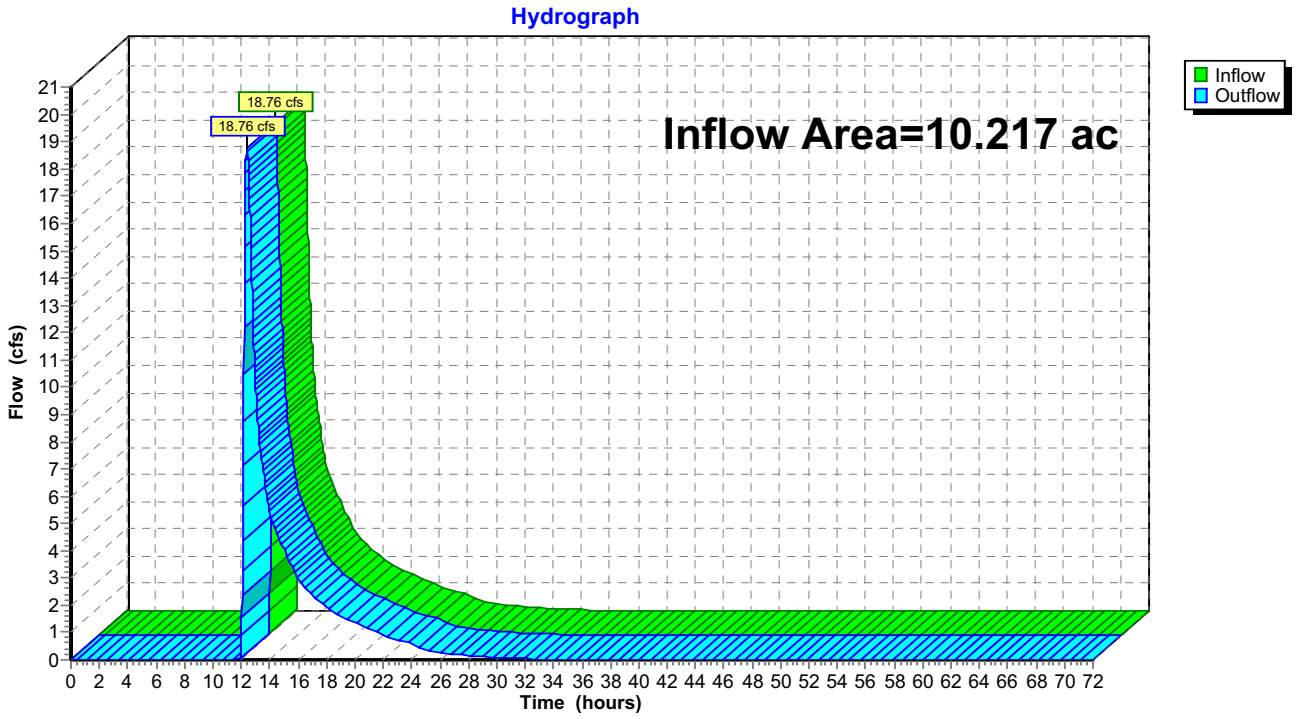
Summary for Reach 5R: Elm Creek Watershed

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 10.217 ac, 25.83% Impervious, Inflow Depth = 4.09" for 100yr-24hr event
Inflow = 18.76 cfs @ 12.39 hrs, Volume= 3.480 af
Outflow = 18.76 cfs @ 12.39 hrs, Volume= 3.480 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 5R: Elm Creek Watershed



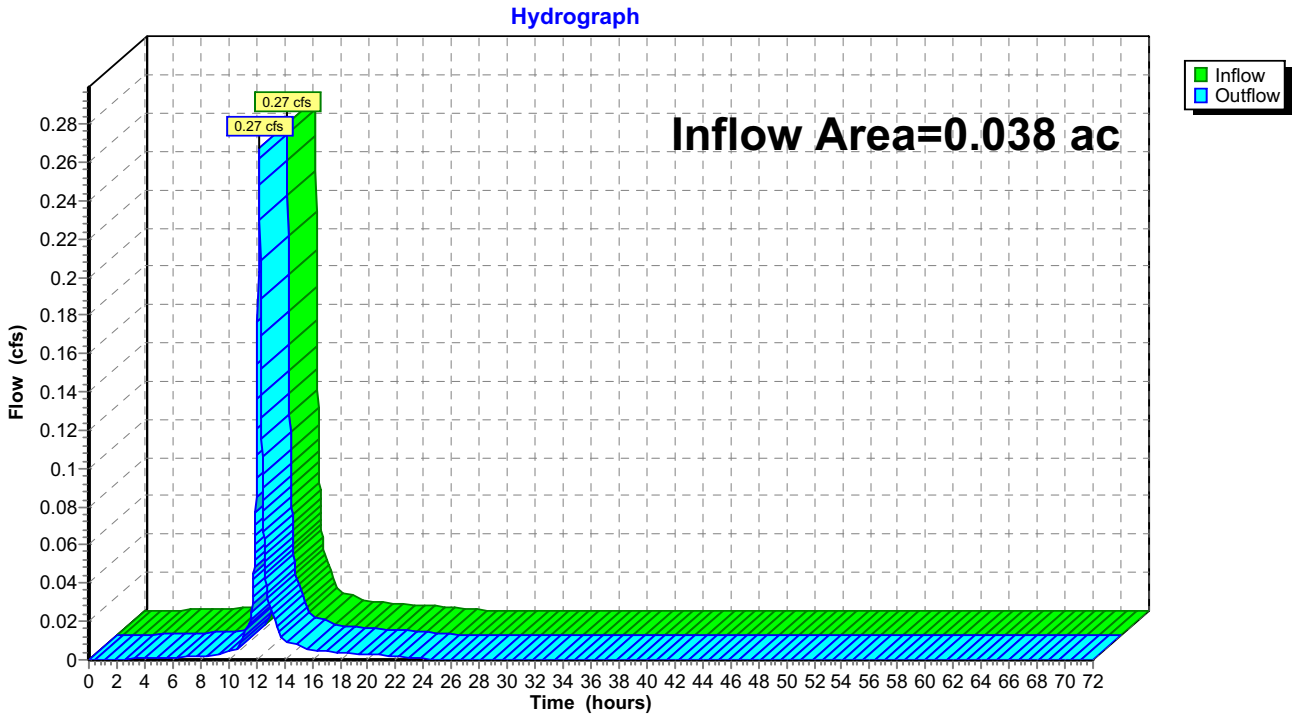
Summary for Reach 8R: Offsite

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.038 ac, 36.84% Impervious, Inflow Depth = 5.34" for 100yr-24hr event
Inflow = 0.27 cfs @ 12.20 hrs, Volume= 0.017 af
Outflow = 0.27 cfs @ 12.20 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach 8R: Offsite



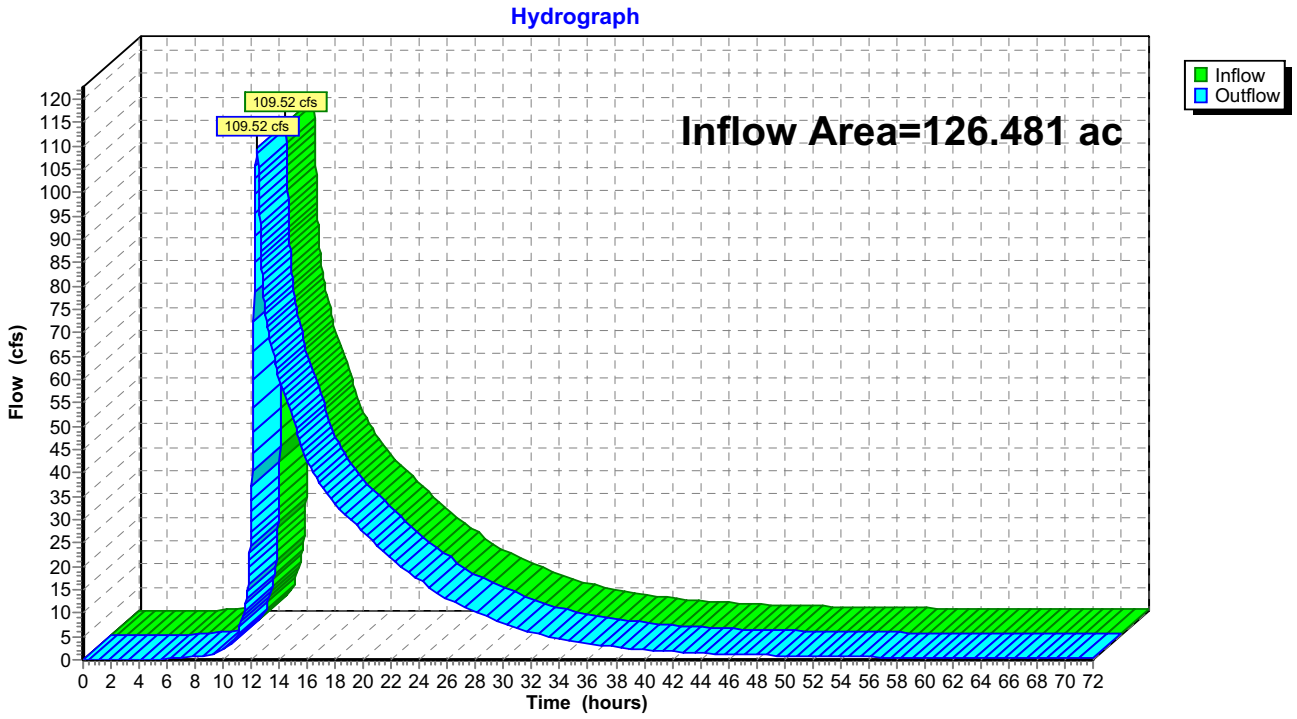
Summary for Reach Wetland: Wetland 6

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 126.481 ac, 32.01% Impervious, Inflow Depth > 4.97" for 100yr-24hr event
Inflow = 109.52 cfs @ 12.39 hrs, Volume= 52.362 af
Outflow = 109.52 cfs @ 12.39 hrs, Volume= 52.362 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Reach Wetland: Wetland 6



Summary for Pond 4P: CB_22 pipe

[57] Hint: Peaked at 973.67' (Flood elevation advised)

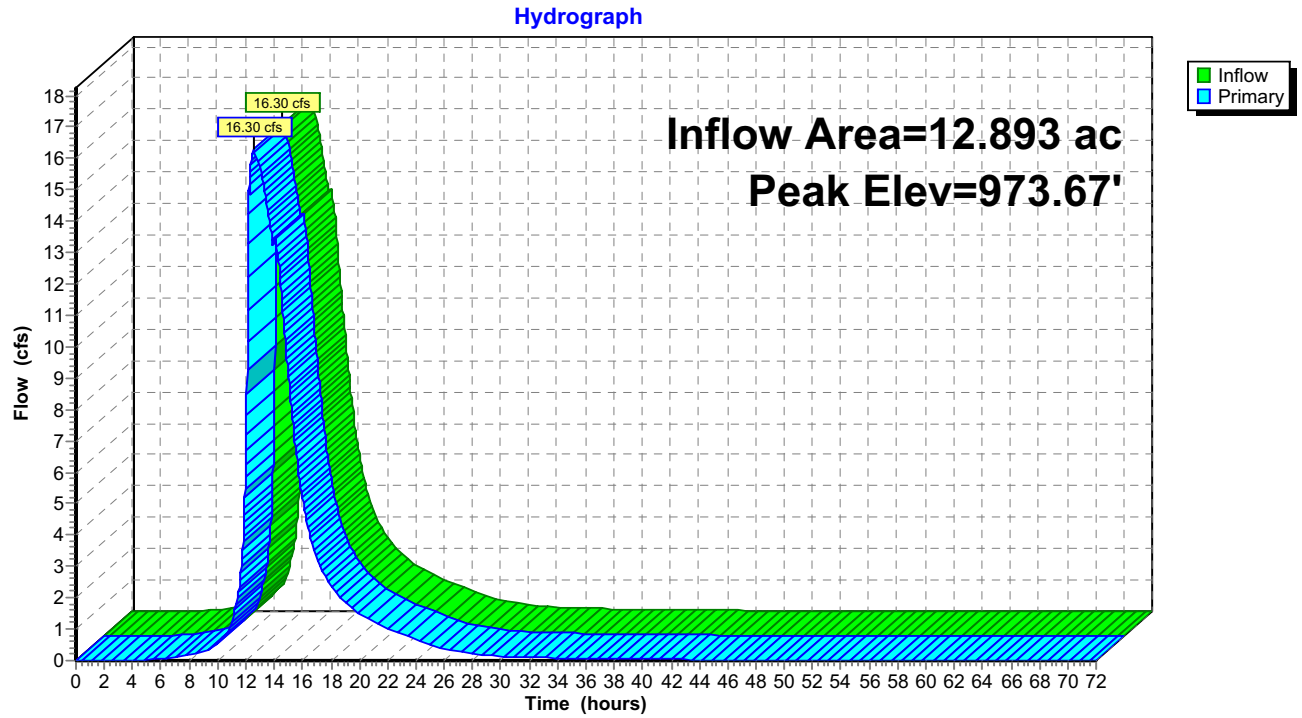
Inflow Area = 12.893 ac, 39.76% Impervious, Inflow Depth > 5.39" for 100yr-24hr event
Inflow = 16.30 cfs @ 12.55 hrs, Volume= 5.793 af
Outflow = 16.30 cfs @ 12.55 hrs, Volume= 5.793 af, Atten= 0%, Lag= 0.0 min
Primary = 16.30 cfs @ 12.55 hrs, Volume= 5.793 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 973.67' @ 12.59 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	969.20'	**24.0" Round Structure I2 to I1** L= 40.7' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.20' / 969.00' S= 0.0049 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Device 1	969.50'	**21.0" Round Structure I9 to I2** L= 87.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.50' / 969.20' S= 0.0034 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf

Primary OutFlow Max=16.27 cfs @ 12.55 hrs HW=973.66' TW=971.89' (Dynamic Tailwater)
↑—**1=Structure I2 to I1** (Passes 16.27 cfs of 25.18 cfs potential flow)
↑—**2=Structure I9 to I2** (Outlet Controls 16.27 cfs @ 6.76 fps)

Pond 4P: CB_22 pipe



Summary for Pond CB_A10: CB_A10

Inflow Area = 0.864 ac, 25.81% Impervious, Inflow Depth = 6.49" for 100yr-24hr event
Inflow = 7.61 cfs @ 12.20 hrs, Volume= 0.467 af
Outflow = 7.58 cfs @ 12.21 hrs, Volume= 0.467 af, Atten= 0%, Lag= 0.5 min
Primary = 7.58 cfs @ 12.21 hrs, Volume= 0.467 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.48' @ 12.21 hrs Surf.Area= 766 sf Storage= 194 cf

Plug-Flow detention time= 0.3 min calculated for 0.467 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (782.9 - 782.6)

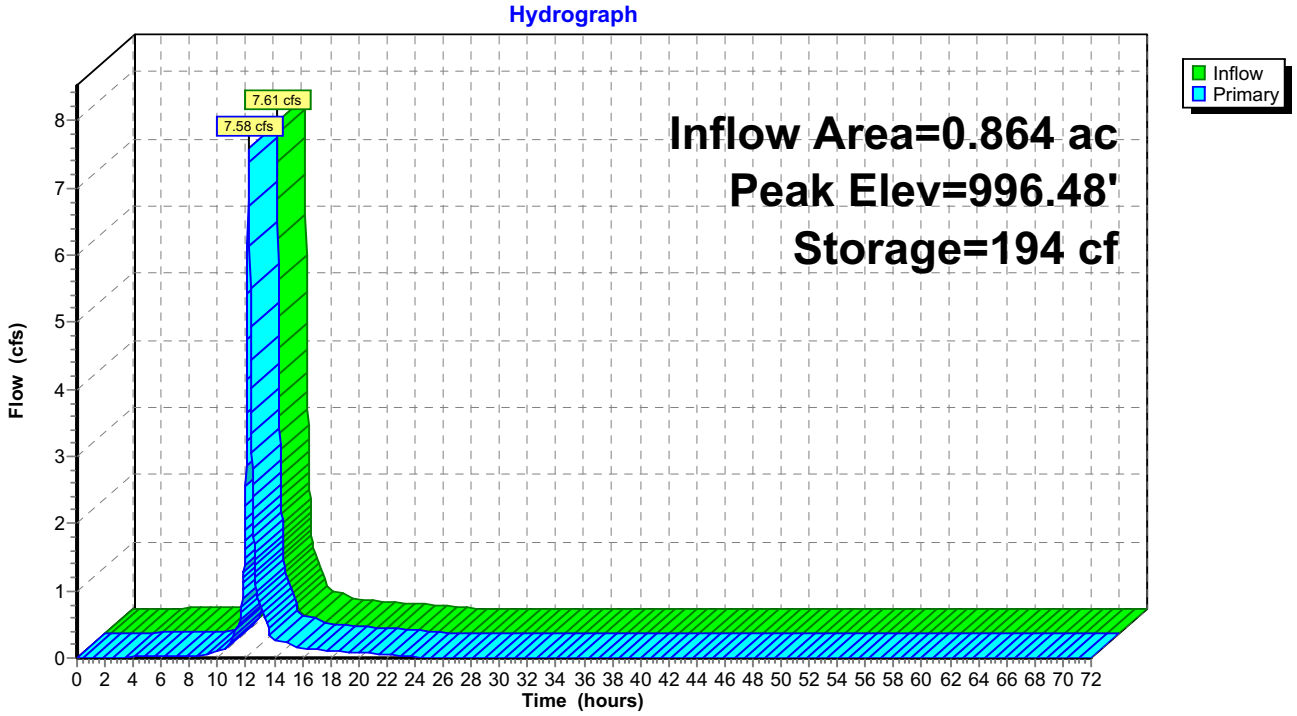
Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	3,110 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	3,060	3,110	3,110

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=7.55 cfs @ 12.21 hrs HW=996.47' TW=980.04' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 7.55 cfs @ 2.25 fps)

Pond CB_A10: CB_A10



Summary for Pond CB_A15: CB_A15

Inflow Area = 0.696 ac, 28.02% Impervious, Inflow Depth = 5.10" for 100yr-24hr event
Inflow = 4.80 cfs @ 12.20 hrs, Volume= 0.296 af
Outflow = 4.79 cfs @ 12.20 hrs, Volume= 0.296 af, Atten= 0%, Lag= 0.4 min
Primary = 3.08 cfs @ 12.20 hrs, Volume= 0.191 af
Secondary = 1.71 cfs @ 12.20 hrs, Volume= 0.105 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 998.26' @ 12.20 hrs Surf.Area= 738 sf Storage= 103 cf

Plug-Flow detention time= 0.3 min calculated for 0.295 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (781.7 - 781.4)

Volume	Invert	Avail.Storage	Storage Description
#1	998.00'	5,372 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
998.00	50	0	0
1,000.00	5,322	5,372	5,372

Device	Routing	Invert	Outlet Devices
#1	Primary	998.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.00'	**5.0' 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=3.07 cfs @ 12.20 hrs HW=998.26' TW=980.02' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 3.07 cfs @ 1.67 fps)

Secondary OutFlow Max=1.70 cfs @ 12.20 hrs HW=998.26' TW=996.47' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 1.70 cfs @ 1.31 fps)

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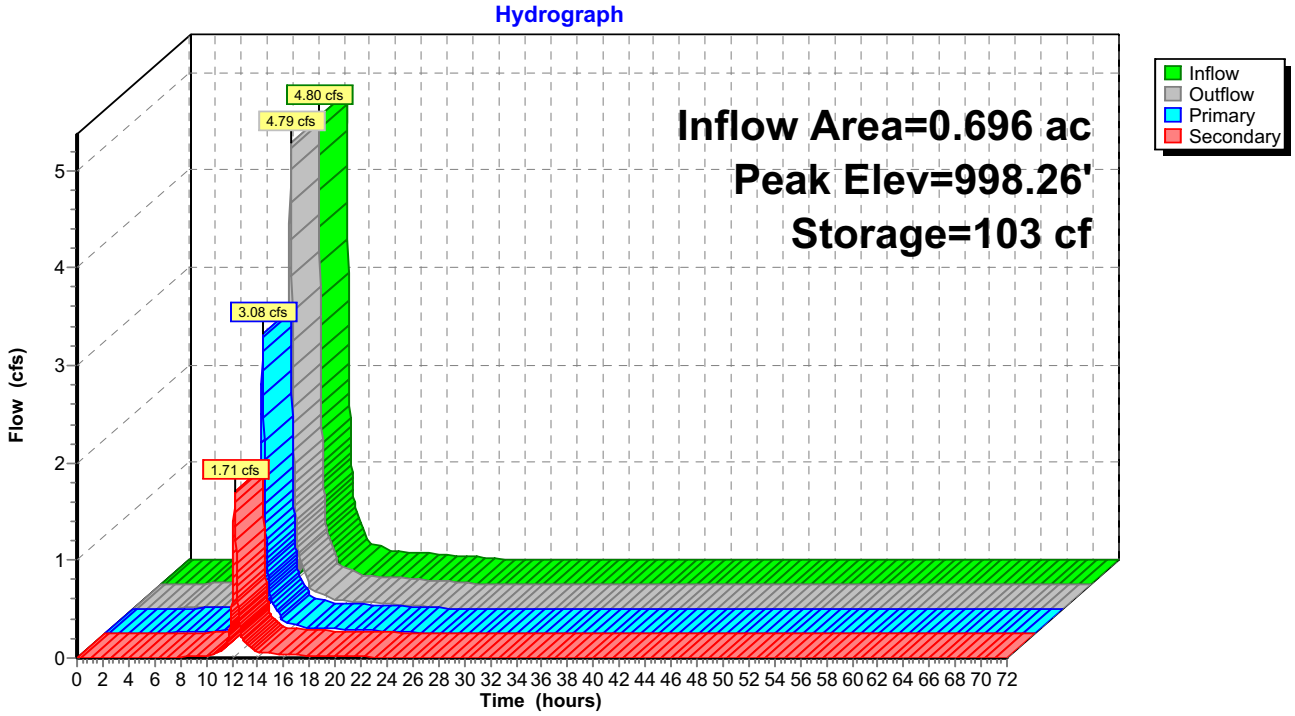
Pond CB_A15: CB_A15



Summary for Pond CB_A8: CB_A8

Inflow Area = 0.095 ac, 10.53% Impervious, Inflow Depth = 4.61" for 100yr-24hr event
Inflow = 0.61 cfs @ 12.20 hrs, Volume= 0.037 af
Outflow = 0.61 cfs @ 12.20 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.3 min
Primary = 0.61 cfs @ 12.20 hrs, Volume= 0.037 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.09' @ 12.20 hrs Surf.Area= 177 sf Storage= 10 cf

Plug-Flow detention time= 0.4 min calculated for 0.037 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (794.9 - 794.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	4,988 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.50	2,200	1,688	1,688
1,005.00	2,200	3,300	4,988

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.50'	**5.0' 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=0.61 cfs @ 12.20 hrs HW=1,002.09' TW=980.01' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 0.61 cfs @ 0.97 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,002.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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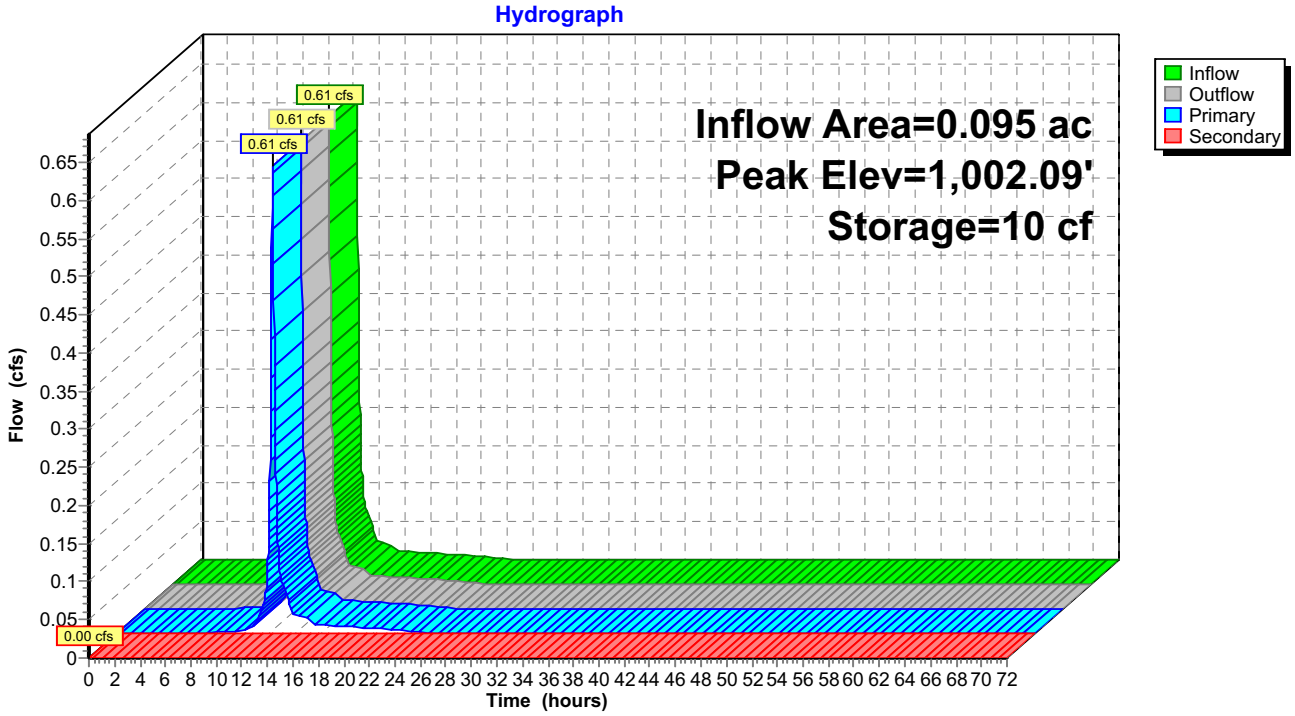
Pond CB_A8: CB_A8



Summary for Pond CB_A9: CB_A9

Inflow Area = 0.671 ac, 21.61% Impervious, Inflow Depth = 4.92" for 100yr-24hr event
Inflow = 4.52 cfs @ 12.20 hrs, Volume= 0.275 af
Outflow = 3.98 cfs @ 12.25 hrs, Volume= 0.275 af, Atten= 12%, Lag= 3.2 min
Primary = 3.98 cfs @ 12.25 hrs, Volume= 0.275 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.31' @ 12.25 hrs Surf.Area= 4,347 sf Storage= 1,307 cf

Plug-Flow detention time= 11.6 min calculated for 0.275 af (100% of inflow)
Center-of-Mass det. time= 11.7 min (797.6 - 785.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	21,200 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	4,100	0	0
1,004.00	5,700	9,800	9,800
1,006.00	5,700	11,400	21,200

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,004.00'	**5.0' 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=3.96 cfs @ 12.25 hrs HW=1,002.31' TW=980.29' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.96 cfs @ 1.82 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=997.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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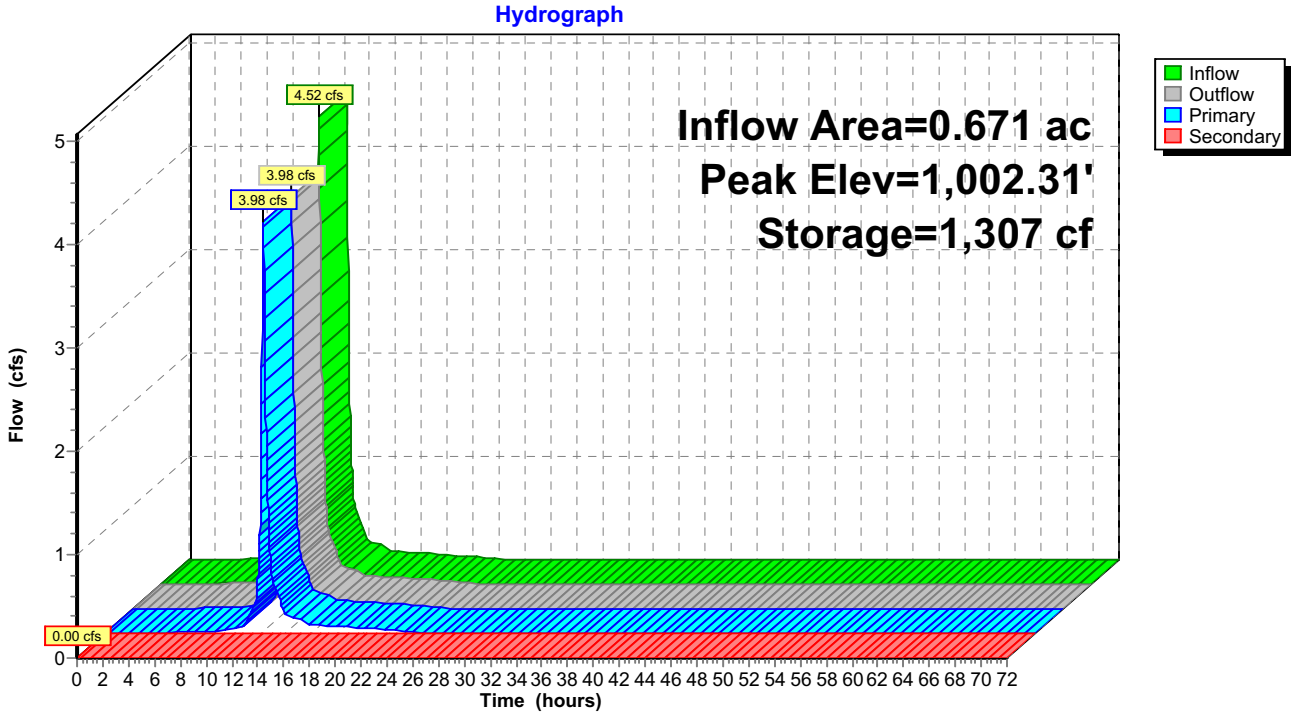
Pond CB_A9: CB_A9



Summary for Pond CB_B5: CB_B5

Inflow Area = 0.552 ac, 7.25% Impervious, Inflow Depth = 4.49" for 100yr-24hr event
Inflow = 3.50 cfs @ 12.20 hrs, Volume= 0.207 af
Outflow = 3.48 cfs @ 12.21 hrs, Volume= 0.207 af, Atten= 0%, Lag= 0.5 min
Primary = 3.48 cfs @ 12.21 hrs, Volume= 0.207 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.28' @ 12.21 hrs Surf.Area= 577 sf Storage= 89 cf

Plug-Flow detention time= 0.4 min calculated for 0.207 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (798.0 - 797.7)

Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	3,820 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	3,770	3,820	3,820

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=3.47 cfs @ 12.21 hrs HW=996.28' TW=980.03' (Dynamic Tailwater)
↳**1=Grate** (Weir Controls 3.47 cfs @ 1.74 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=996.00' TW=994.00' (Dynamic Tailwater)
↳**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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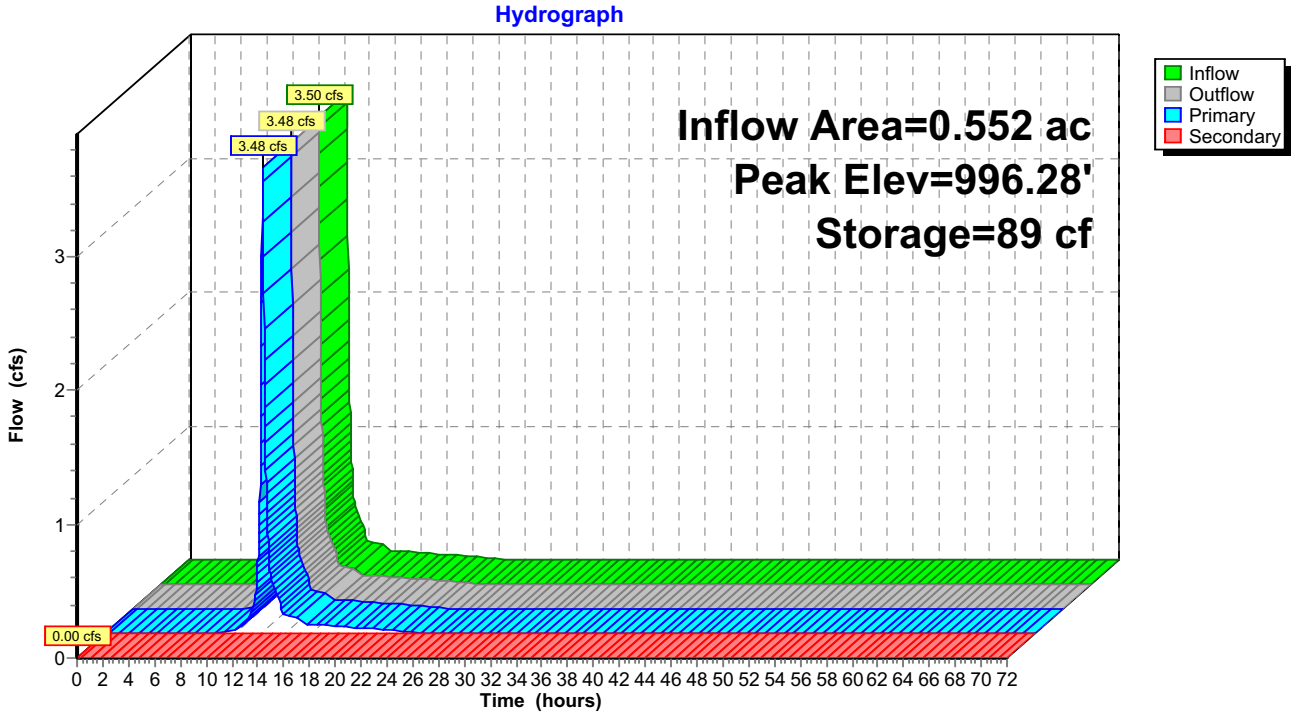
Pond CB_B5: CB_B5



Summary for Pond CB_B6: CB_B6

Inflow Area = 1.508 ac, 9.28% Impervious, Inflow Depth = 5.68" for 100yr-24hr event
Inflow = 12.00 cfs @ 12.20 hrs, Volume= 0.714 af
Outflow = 11.88 cfs @ 12.21 hrs, Volume= 0.714 af, Atten= 1%, Lag= 0.8 min
Primary = 11.88 cfs @ 12.21 hrs, Volume= 0.714 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.64' @ 12.21 hrs Surf.Area= 1,407 sf Storage= 468 cf

Plug-Flow detention time= 0.5 min calculated for 0.714 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (795.7 - 795.2)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	29,510 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

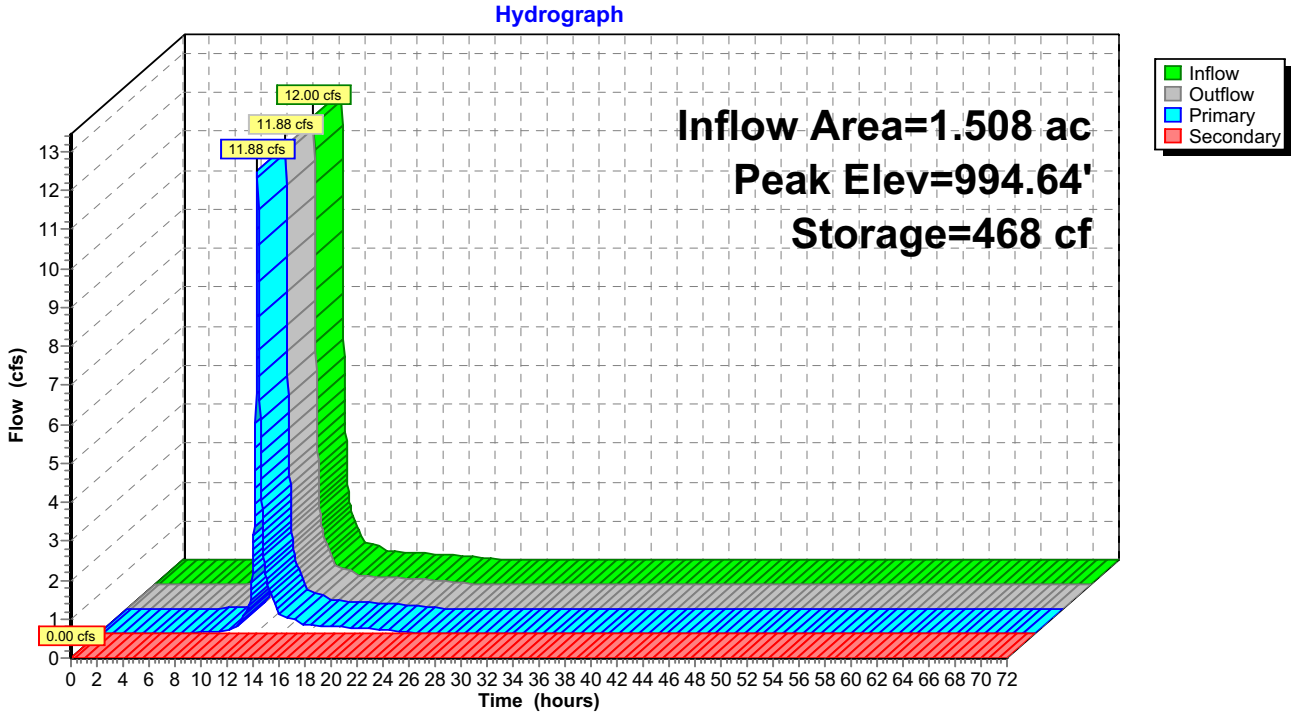
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
996.00	4,280	4,330	4,330
998.00	20,900	25,180	29,510

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.00'	**5.0' 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=11.84 cfs @ 12.21 hrs HW=994.64' TW=980.08' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 11.84 cfs @ 2.62 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=994.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_B6: CB_B6



Summary for Pond CB_B7: CB_B7

Inflow Area = 0.993 ac, 14.40% Impervious, Inflow Depth = 4.72" for 100yr-24hr event
Inflow = 6.51 cfs @ 12.20 hrs, Volume= 0.391 af
Outflow = 6.47 cfs @ 12.21 hrs, Volume= 0.390 af, Atten= 1%, Lag= 0.7 min
Primary = 4.15 cfs @ 12.21 hrs, Volume= 0.252 af
Secondary = 2.32 cfs @ 12.21 hrs, Volume= 0.139 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 998.32' @ 12.21 hrs Surf.Area= 1,240 sf Storage= 401 cf

Plug-Flow detention time= 3.2 min calculated for 0.390 af (100% of inflow)
Center-of-Mass det. time= 2.5 min (793.9 - 791.4)

Volume	Invert	Avail.Storage	Storage Description
#1	997.99'	1,246 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.99	50	0	0
998.00	1,240	6	6
999.00	1,240	1,240	1,246

Device	Routing	Invert	Outlet Devices
#1	Primary	998.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.00'	**5.0' 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=4.13 cfs @ 12.21 hrs HW=998.32' TW=980.05' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 4.13 cfs @ 1.84 fps)

Secondary OutFlow Max=2.31 cfs @ 12.21 hrs HW=998.32' TW=994.64' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 2.31 cfs @ 1.45 fps)

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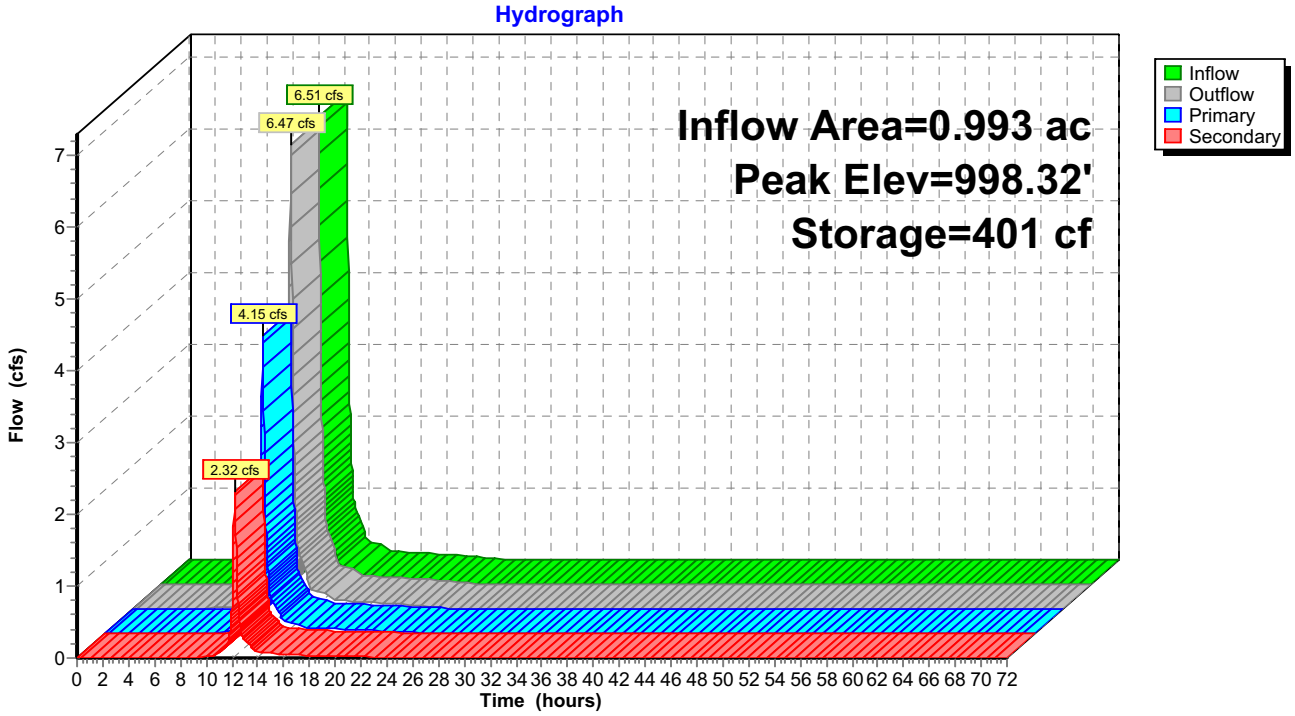
Pond CB_B7: CB_B7



Summary for Pond CB_B8: CB_B8

Inflow Area = 1.140 ac, 19.74% Impervious, Inflow Depth = 4.85" for 100yr-24hr event
Inflow = 7.60 cfs @ 12.20 hrs, Volume= 0.461 af
Outflow = 7.60 cfs @ 12.20 hrs, Volume= 0.461 af, Atten= 0%, Lag= 0.2 min
Primary = 7.60 cfs @ 12.20 hrs, Volume= 0.461 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 995.98' @ 12.20 hrs Surf.Area= 260 sf Storage= 74 cf

Plug-Flow detention time= 0.2 min calculated for 0.461 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (787.6 - 787.4)

Volume	Invert	Avail.Storage	Storage Description
#1	995.50'	7,410 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
995.50	50	0	0
996.00	270	80	80
998.00	7,060	7,330	7,410

Device	Routing	Invert	Outlet Devices
#1	Primary	995.50'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=7.59 cfs @ 12.20 hrs HW=995.98' TW=979.99' (Dynamic Tailwater)
↑**1=Orifice/Grate** (Weir Controls 7.59 cfs @ 2.26 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=995.50' TW=996.00' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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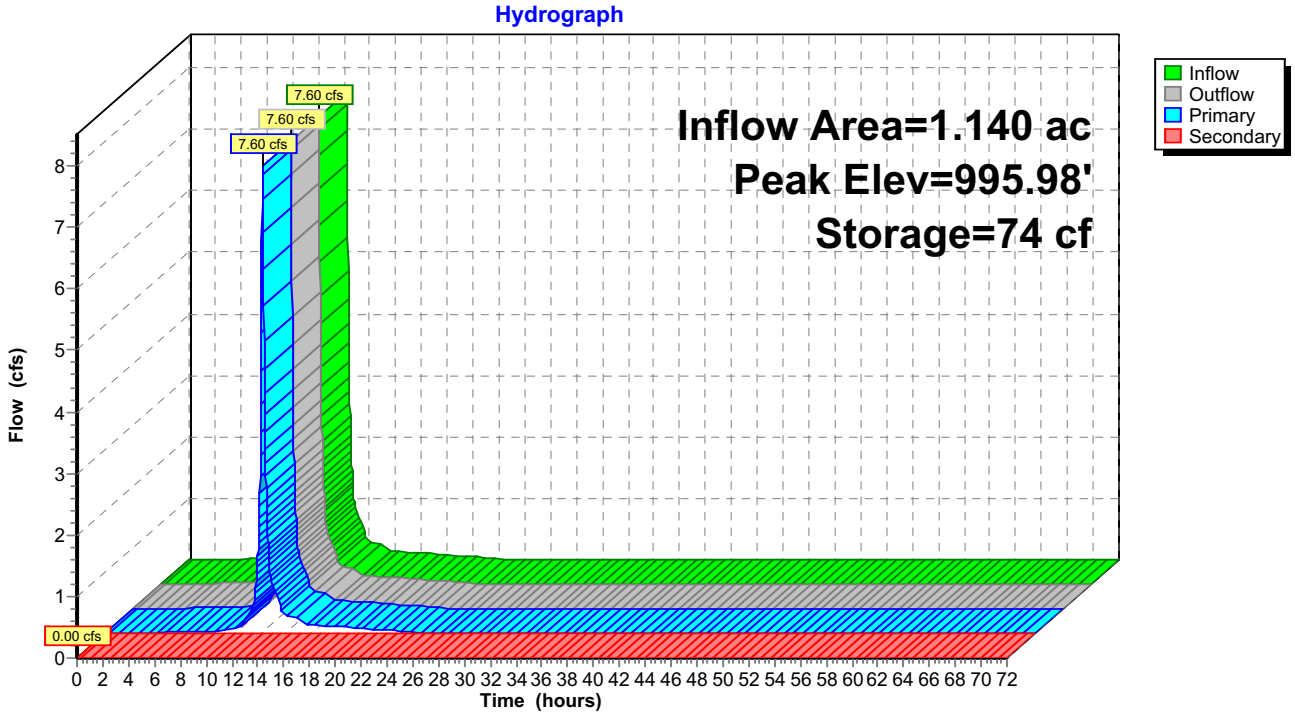
Pond CB_B8: CB_B8



Summary for Pond CB_C10: CB_C10

Inflow Area = 1.860 ac, 19.46% Impervious, Inflow Depth = 4.86" for 100yr-24hr event
Inflow = 12.43 cfs @ 12.20 hrs, Volume= 0.753 af
Outflow = 12.38 cfs @ 12.21 hrs, Volume= 0.753 af, Atten= 0%, Lag= 0.5 min
Primary = 12.38 cfs @ 12.21 hrs, Volume= 0.753 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.66' @ 12.21 hrs Surf.Area= 924 sf Storage= 321 cf

Plug-Flow detention time= 0.3 min calculated for 0.753 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (787.8 - 787.5)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	11,870 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
996.00	2,700	2,750	2,750
997.00	5,180	3,940	6,690
998.00	5,180	5,180	11,870

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.00'	**5.0' 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=12.32 cfs @ 12.21 hrs HW=994.66' TW=980.03' (Dynamic Tailwater)
↑**1=Grate** (Weir Controls 12.32 cfs @ 2.65 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=993.00' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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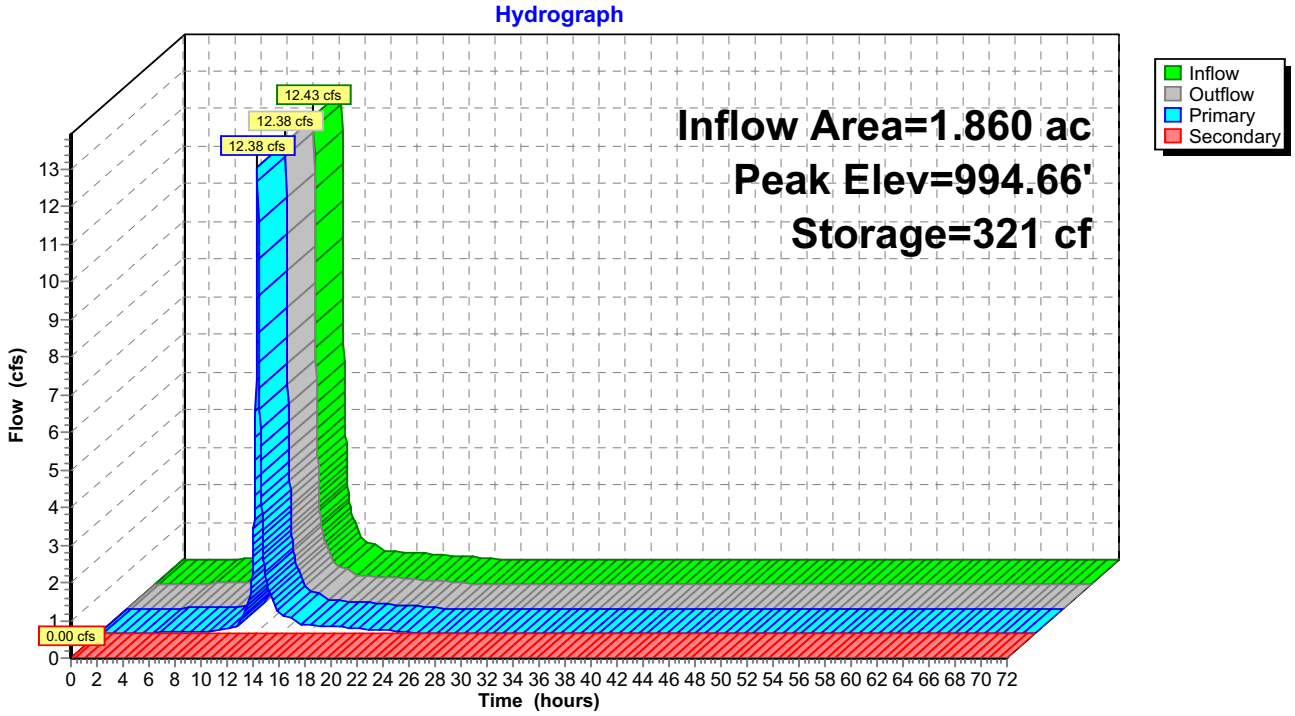
Pond CB_C10: CB_C10



Summary for Pond CB_C6: CB_C6

Inflow Area = 0.839 ac, 1.31% Impervious, Inflow Depth = 4.36" for 100yr-24hr event
Inflow = 5.23 cfs @ 12.20 hrs, Volume= 0.305 af
Outflow = 5.21 cfs @ 12.21 hrs, Volume= 0.305 af, Atten= 0%, Lag= 0.5 min
Primary = 5.21 cfs @ 12.21 hrs, Volume= 0.305 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 993.37' @ 12.21 hrs Surf.Area= 668 sf Storage= 133 cf

Plug-Flow detention time= 0.7 min calculated for 0.305 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (803.0 - 802.6)

Volume	Invert	Avail.Storage	Storage Description
#1	993.00'	885 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
993.00	50	0	0
994.00	1,720	885	885

Device	Routing	Invert	Outlet Devices
#1	Primary	993.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=5.18 cfs @ 12.21 hrs HW=993.37' TW=980.04' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 5.18 cfs @ 1.99 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=993.00' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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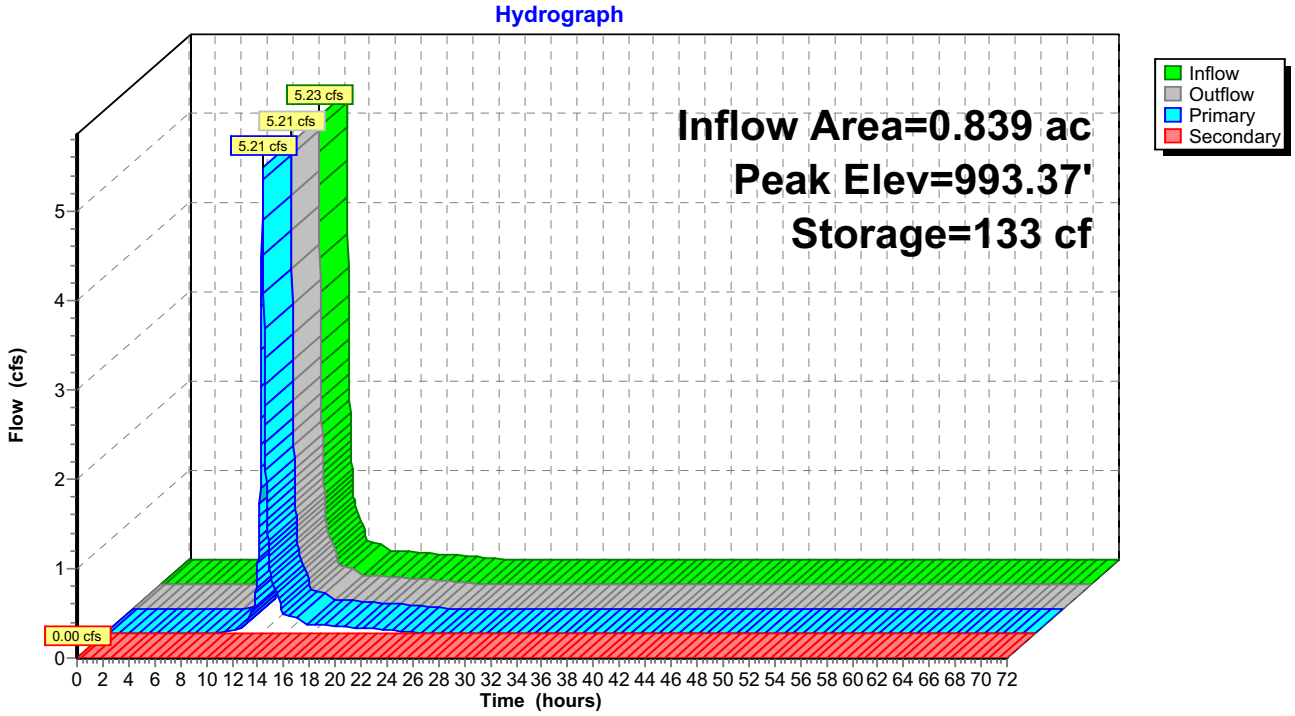
Pond CB_C6: CB_C6



Summary for Pond CB_C7: CB_C7

Inflow Area = 1.347 ac, 13.73% Impervious, Inflow Depth = 4.70" for 100yr-24hr event
Inflow = 8.67 cfs @ 12.20 hrs, Volume= 0.528 af
Outflow = 8.59 cfs @ 12.22 hrs, Volume= 0.528 af, Atten= 1%, Lag= 0.8 min
Primary = 8.59 cfs @ 12.22 hrs, Volume= 0.528 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 993.52' @ 12.22 hrs Surf.Area= 1,259 sf Storage= 338 cf

Plug-Flow detention time= 0.9 min calculated for 0.528 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (792.8 - 792.3)

Volume	Invert	Avail.Storage	Storage Description
#1	993.00'	1,220 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
993.00	50	0	0
994.00	2,390	1,220	1,220

Device	Routing	Invert	Outlet Devices
#1	Primary	993.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=8.56 cfs @ 12.22 hrs HW=993.52' TW=980.09' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 8.56 cfs @ 2.35 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=993.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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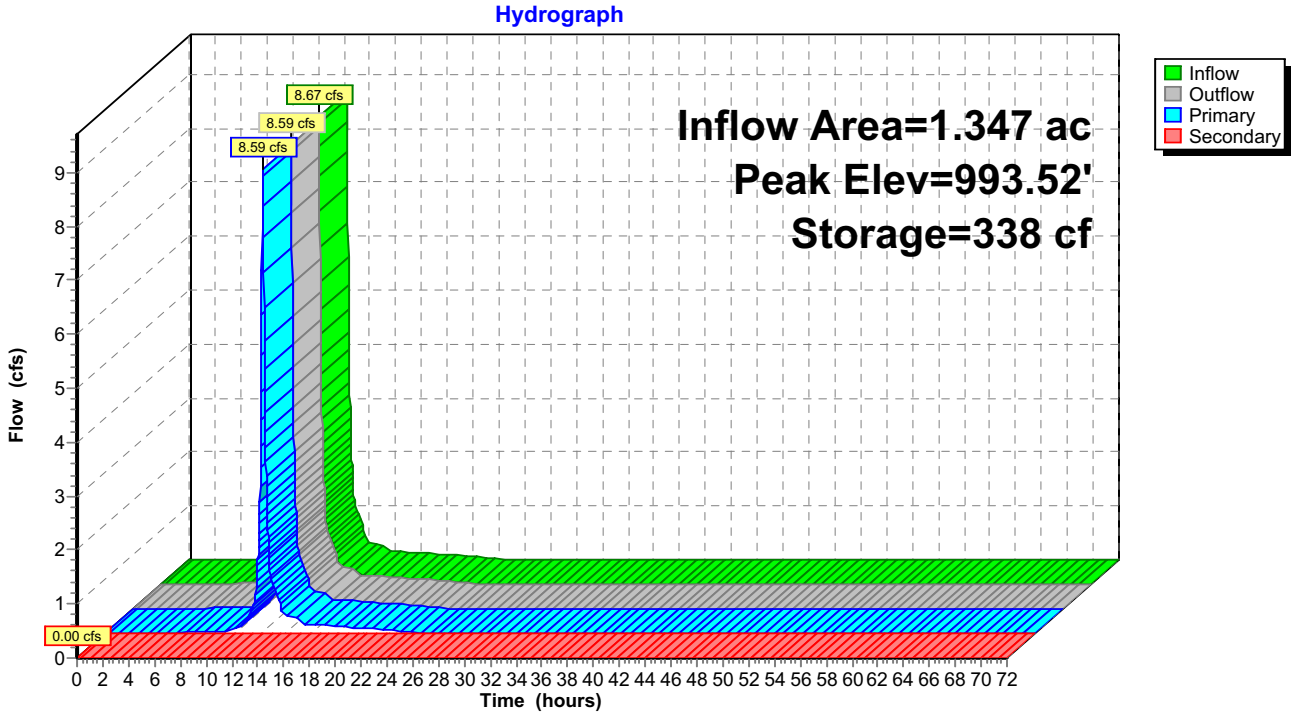
Pond CB_C7: CB_C7



Summary for Pond CB_C8: CB_C8

Inflow Area = 1.927 ac, 22.47% Impervious, Inflow Depth = 4.94" for 100yr-24hr event
Inflow = 12.77 cfs @ 12.20 hrs, Volume= 0.794 af
Outflow = 12.76 cfs @ 12.21 hrs, Volume= 0.794 af, Atten= 0%, Lag= 0.3 min
Primary = 12.76 cfs @ 12.21 hrs, Volume= 0.794 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 991.67' @ 12.21 hrs Surf.Area= 563 sf Storage= 206 cf

Plug-Flow detention time= 0.2 min calculated for 0.793 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (786.0 - 785.8)

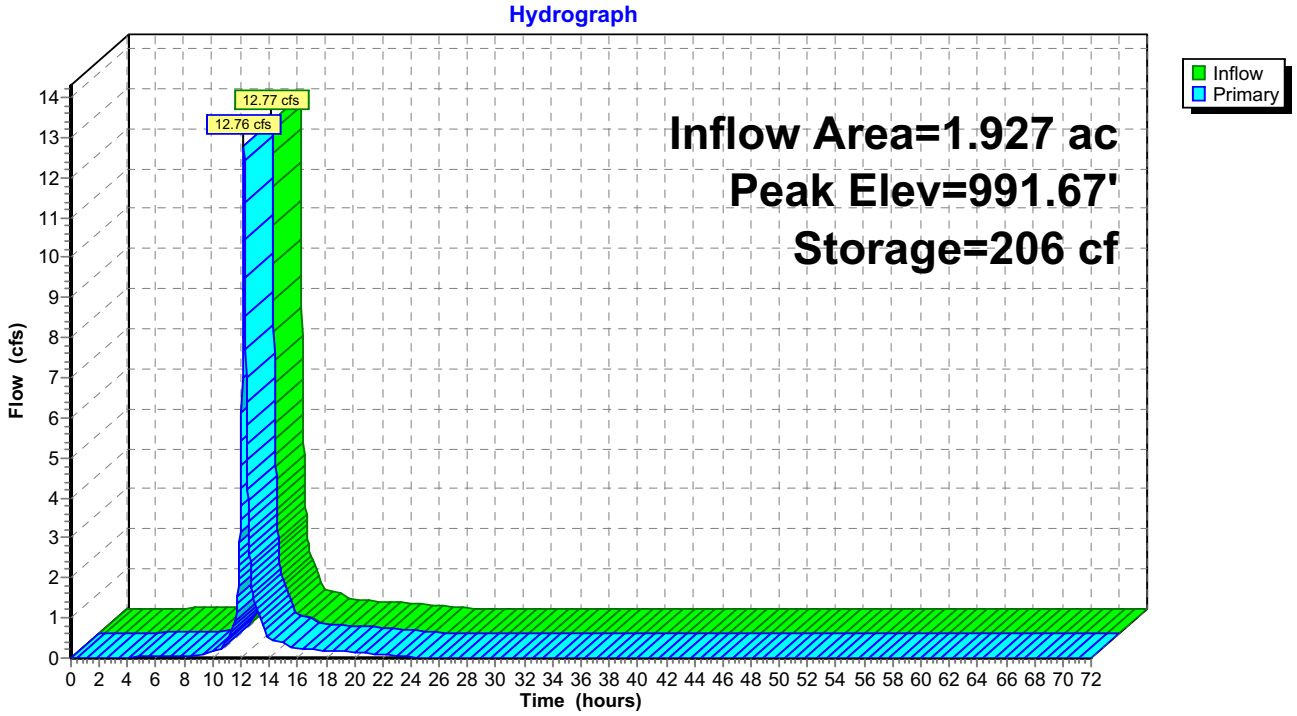
Volume	Invert	Avail.Storage	Storage Description
#1	991.00'	6,743 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
991.00	50	0	0
992.00	812	431	431
994.00	5,500	6,312	6,743

Device	Routing	Invert	Outlet Devices
#1	Primary	991.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=12.70 cfs @ 12.21 hrs HW=991.67' TW=980.03' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 12.70 cfs @ 2.68 fps)

Pond CB_C8: CB_C8



Summary for Pond CB_C9: CB_C9

Inflow Area = 2.063 ac, 15.90% Impervious, Inflow Depth = 4.76" for 100yr-24hr event
Inflow = 13.60 cfs @ 12.20 hrs, Volume= 0.818 af
Outflow = 13.45 cfs @ 12.21 hrs, Volume= 0.818 af, Atten= 1%, Lag= 0.9 min
Primary = 13.45 cfs @ 12.21 hrs, Volume= 0.818 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 992.70' @ 12.21 hrs Surf.Area= 1,573 sf Storage= 566 cf

Plug-Flow detention time= 0.5 min calculated for 0.818 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (790.7 - 790.2)

Volume	Invert	Avail.Storage	Storage Description
#1	992.00'	4,470 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
992.00	50	0	0
994.00	4,420	4,470	4,470

Device	Routing	Invert	Outlet Devices
#1	Primary	992.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	993.90'	**5.0' 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=13.39 cfs @ 12.21 hrs HW=992.70' TW=980.07' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 13.39 cfs @ 2.73 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=992.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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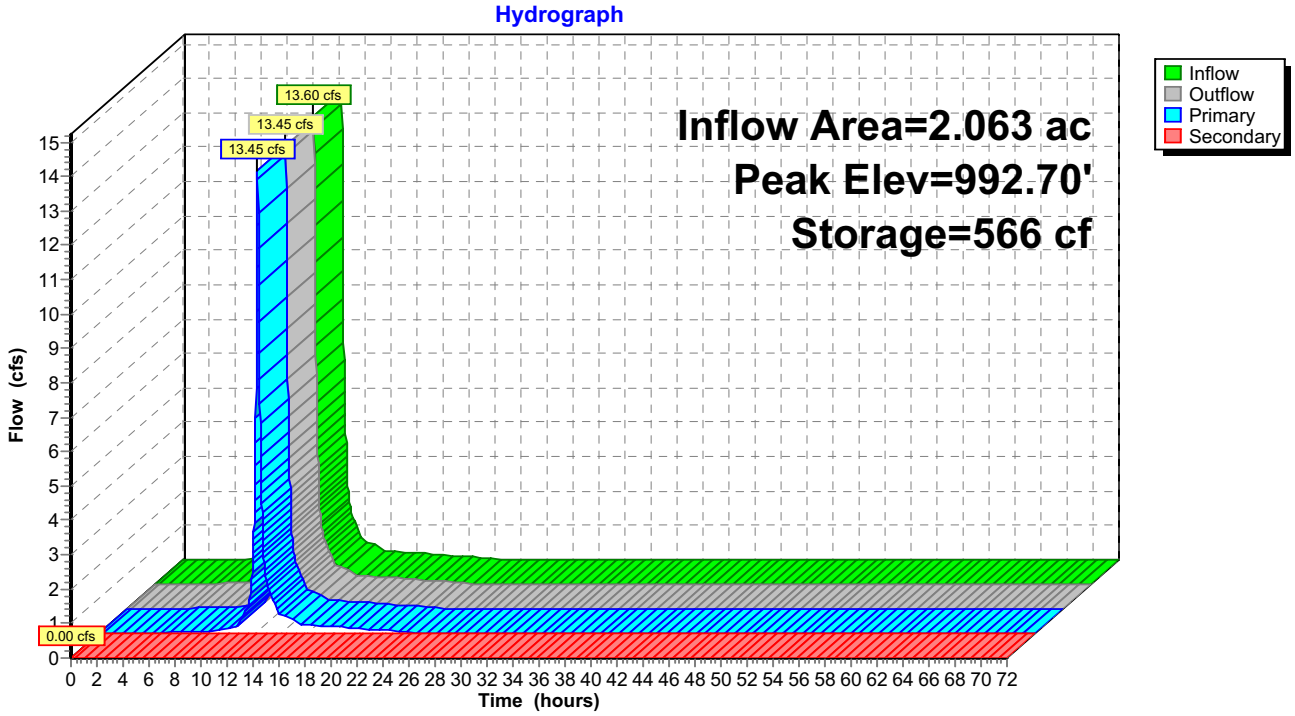
Pond CB_C9: CB_C9



Summary for Pond CB_D6: CB_D6

Inflow Area = 0.376 ac, 3.46% Impervious, Inflow Depth = 4.42" for 100yr-24hr event
Inflow = 2.36 cfs @ 12.20 hrs, Volume= 0.138 af
Outflow = 2.34 cfs @ 12.21 hrs, Volume= 0.138 af, Atten= 1%, Lag= 0.8 min
Primary = 2.34 cfs @ 12.21 hrs, Volume= 0.138 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,000.22' @ 12.21 hrs Surf.Area= 824 sf Storage= 95 cf

Plug-Flow detention time= 0.5 min calculated for 0.138 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (801.2 - 800.6)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	5,448 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	50	0	0
1,001.00	3,615	1,833	1,833
1,002.00	3,615	3,615	5,448

Device	Routing	Invert	Outlet Devices
#1	Primary	1,000.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,001.00'	**3.0' 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=2.33 cfs @ 12.21 hrs HW=1,000.22' TW=980.07' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 2.33 cfs @ 1.52 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,000.00' TW=997.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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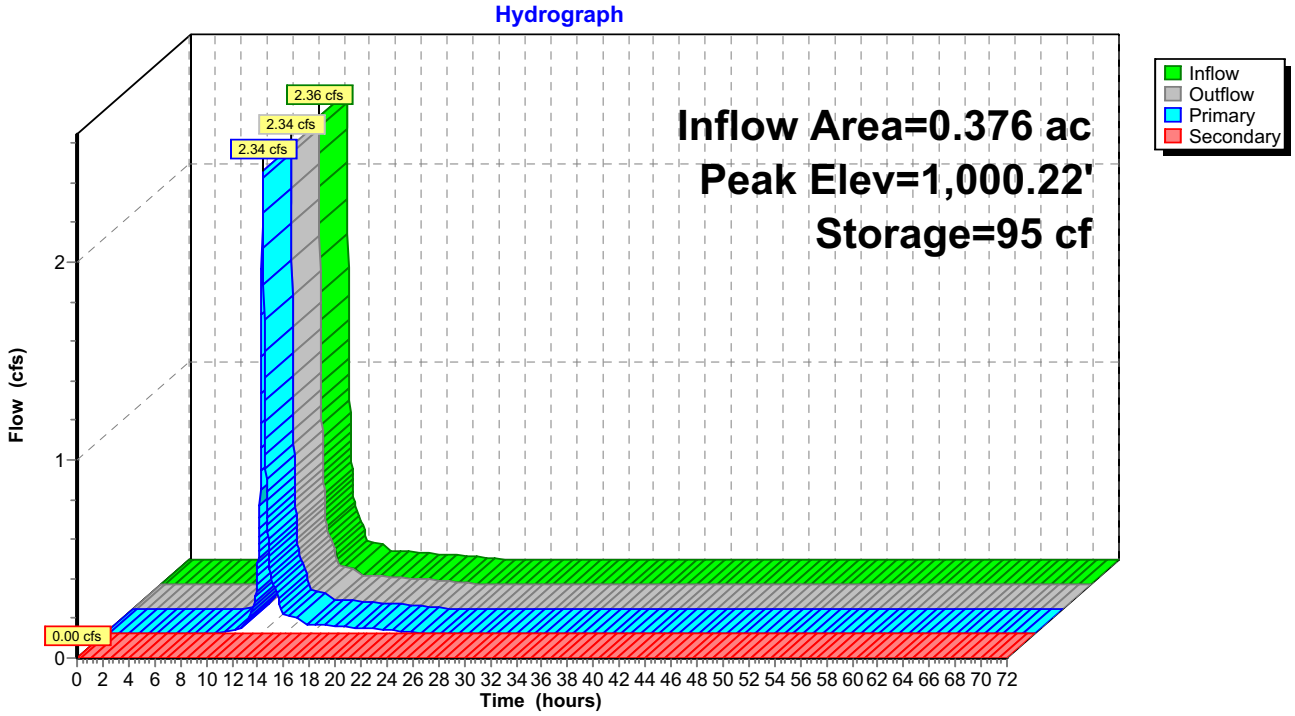
Pond CB_D6: CB_D6



Summary for Pond CB_D7: CB_D7

Inflow Area = 0.586 ac, 17.58% Impervious, Inflow Depth = 4.81" for 100yr-24hr event
Inflow = 3.89 cfs @ 12.20 hrs, Volume= 0.235 af
Outflow = 3.85 cfs @ 12.21 hrs, Volume= 0.235 af, Atten= 1%, Lag= 0.8 min
Primary = 3.85 cfs @ 12.21 hrs, Volume= 0.235 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.30' @ 12.21 hrs Surf.Area= 988 sf Storage= 157 cf

Plug-Flow detention time= 0.5 min calculated for 0.235 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (789.4 - 788.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	4,750 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.00	3,150	1,600	1,600
1,004.00	3,150	3,150	4,750

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.00'	**3.0' 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=3.83 cfs @ 12.21 hrs HW=1,002.30' TW=980.06' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 3.83 cfs @ 1.80 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,000.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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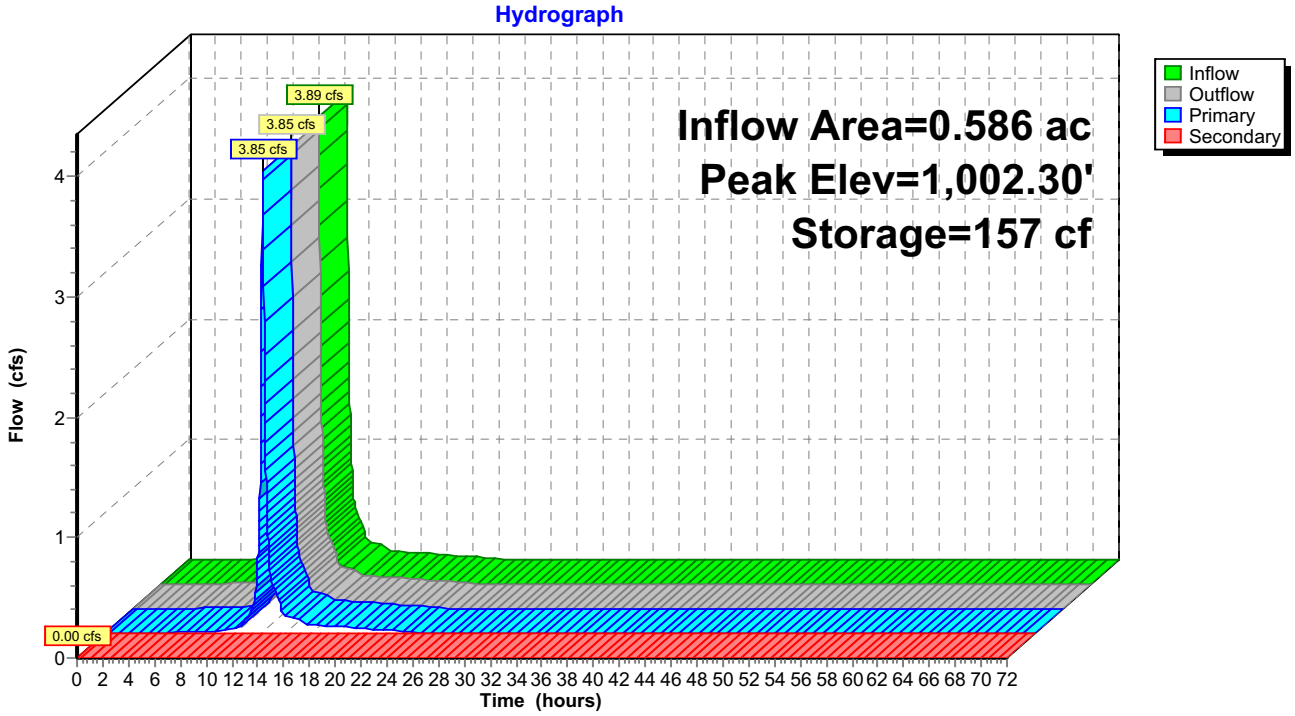
Pond CB_D7: CB_D7



Summary for Pond CB_D8: CB_D8

Inflow Area = 1.215 ac, 7.98% Impervious, Inflow Depth = 4.54" for 100yr-24hr event
Inflow = 7.77 cfs @ 12.20 hrs, Volume= 0.460 af
Outflow = 7.61 cfs @ 12.22 hrs, Volume= 0.460 af, Atten= 2%, Lag= 1.3 min
Primary = 7.61 cfs @ 12.22 hrs, Volume= 0.460 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.48' @ 12.22 hrs Surf.Area= 1,899 sf Storage= 465 cf

Plug-Flow detention time= 0.7 min calculated for 0.460 af (100% of inflow)
Center-of-Mass det. time= 0.7 min (797.4 - 796.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,002.00'	13,245 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,002.00	50	0	0
1,003.50	5,870	4,440	4,440
1,005.00	5,870	8,805	13,245

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.50'	**5.0' 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=7.60 cfs @ 12.22 hrs HW=1,002.48' TW=980.11' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 7.60 cfs @ 2.26 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,002.00' TW=1,002.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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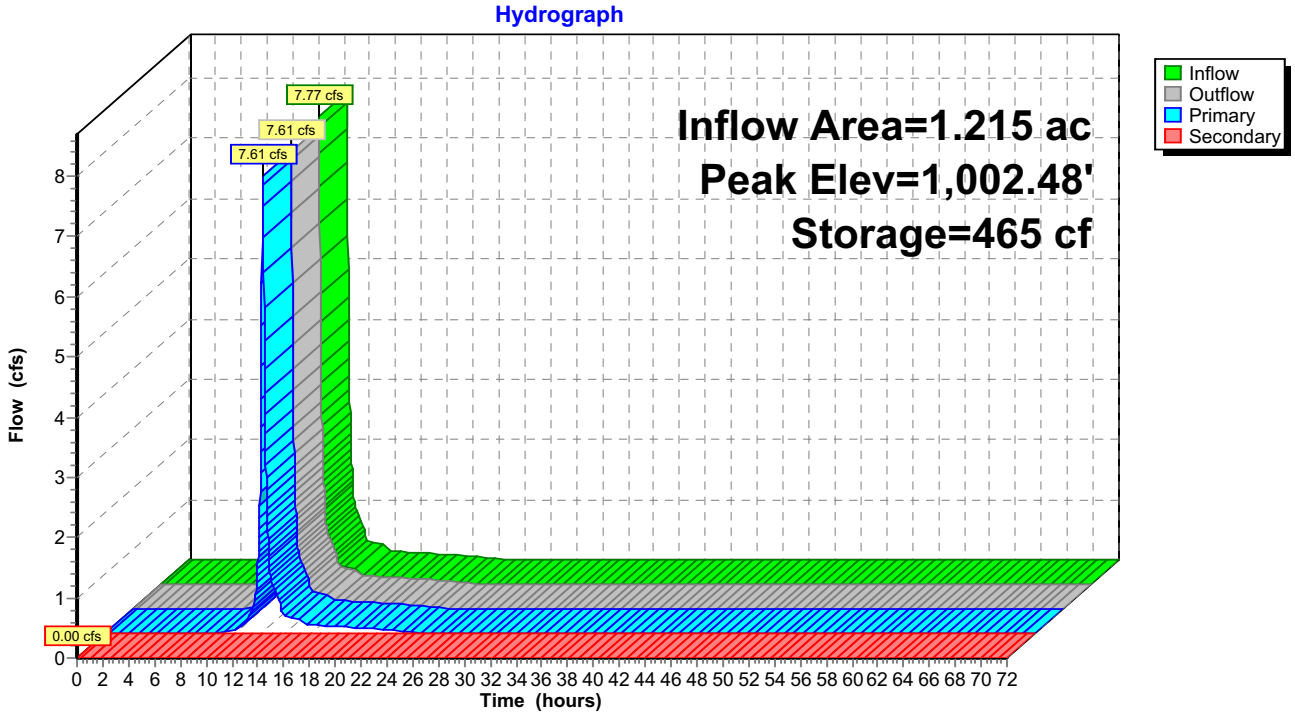
Pond CB_D8: CB_D8



Summary for Pond CB_D9: CB_D9

Inflow Area = 1.254 ac, 16.11% Impervious, Inflow Depth = 4.77" for 100yr-24hr event
Inflow = 8.27 cfs @ 12.20 hrs, Volume= 0.498 af
Outflow = 8.15 cfs @ 12.22 hrs, Volume= 0.498 af, Atten= 2%, Lag= 1.1 min
Primary = 8.15 cfs @ 12.22 hrs, Volume= 0.498 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 997.50' @ 12.22 hrs Surf.Area= 1,597 sf Storage= 423 cf

Plug-Flow detention time= 0.7 min calculated for 0.498 af (100% of inflow)
Center-of-Mass det. time= 0.7 min (790.7 - 790.0)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	41,500 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	100	0	0
998.00	3,100	1,600	1,600
1,000.00	18,400	21,500	23,100
1,001.00	18,400	18,400	41,500

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	1,000.00'	**5.0' 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=8.12 cfs @ 12.22 hrs HW=997.50' TW=980.08' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 8.12 cfs @ 2.31 fps)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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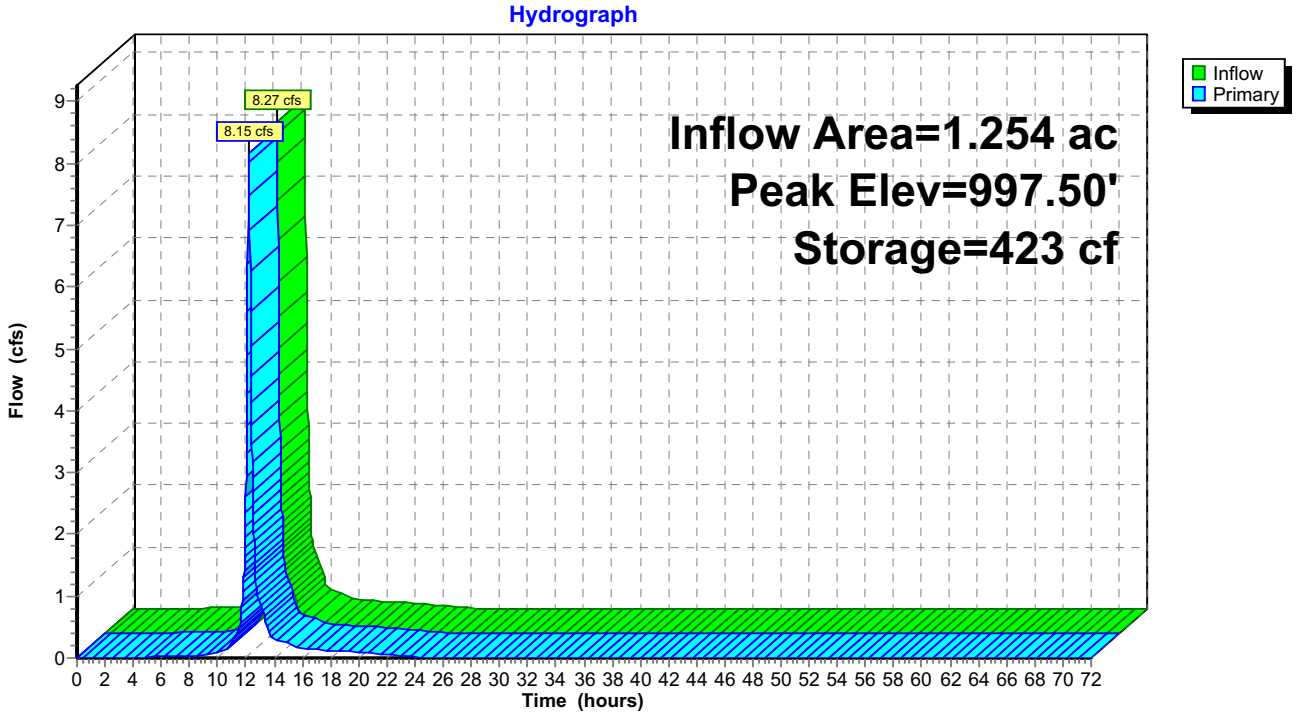
Pond CB_D9: CB_D9



Summary for Pond CB_E13: CB_E13

Inflow Area = 0.980 ac, 25.31% Impervious, Inflow Depth = 5.02" for 100yr-24hr event
Inflow = 6.69 cfs @ 12.20 hrs, Volume= 0.410 af
Outflow = 6.69 cfs @ 12.20 hrs, Volume= 0.410 af, Atten= 0%, Lag= 0.2 min
Primary = 6.69 cfs @ 12.20 hrs, Volume= 0.410 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,004.44' @ 12.20 hrs Surf.Area= 273 sf Storage= 71 cf

Plug-Flow detention time= 0.2 min calculated for 0.410 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (783.4 - 783.2)

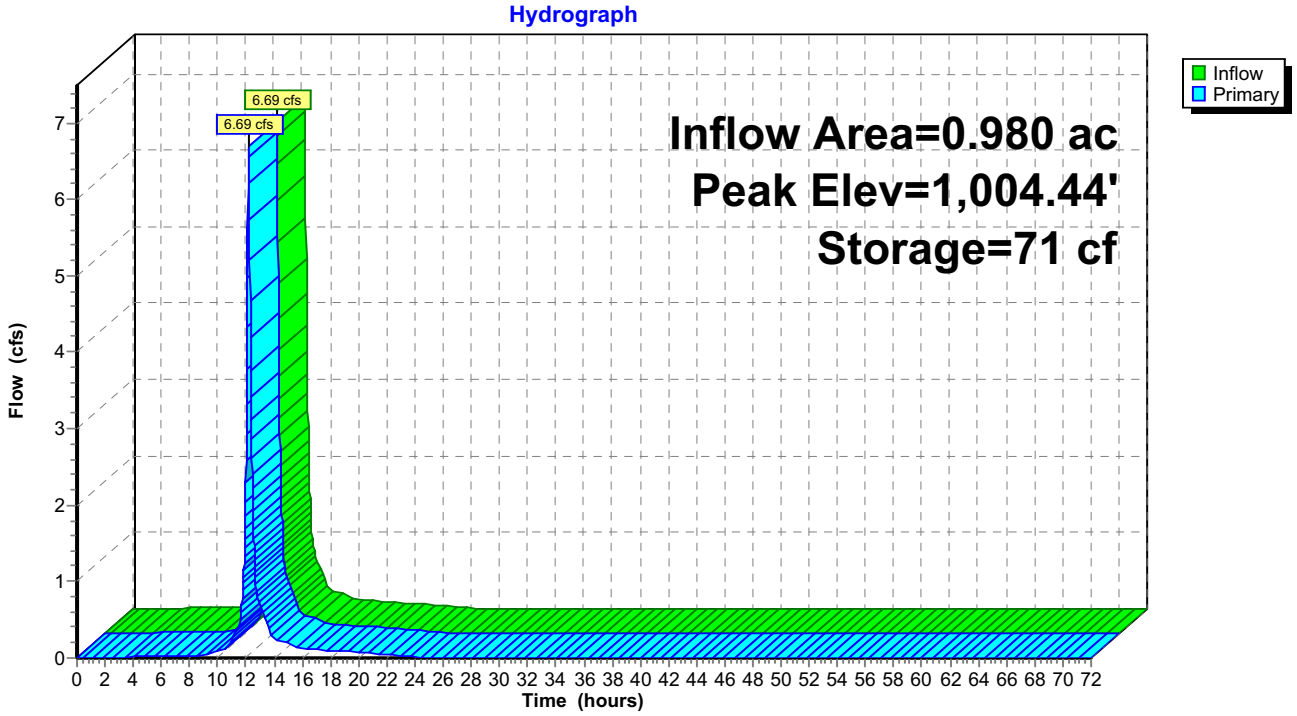
Volume	Invert	Avail.Storage	Storage Description
#1	1,004.00'	1,120 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,004.00	50	0	0
1,006.00	1,070	1,120	1,120

Device	Routing	Invert	Outlet Devices
#1	Primary	1,004.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=6.69 cfs @ 12.20 hrs HW=1,004.44' TW=979.99' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 6.69 cfs @ 2.16 fps)

Pond CB_E13: CB_E13



Summary for Pond CB_E15: CB_E15

Inflow Area = 1.926 ac, 26.90% Impervious, Inflow Depth = 5.06" for 100yr-24hr event
Inflow = 13.23 cfs @ 12.20 hrs, Volume= 0.813 af
Outflow = 13.21 cfs @ 12.20 hrs, Volume= 0.813 af, Atten= 0%, Lag= 0.3 min
Primary = 13.21 cfs @ 12.20 hrs, Volume= 0.813 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 992.69' @ 12.20 hrs Surf.Area= 597 sf Storage= 223 cf

Plug-Flow detention time= 0.2 min calculated for 0.813 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (782.4 - 782.1)

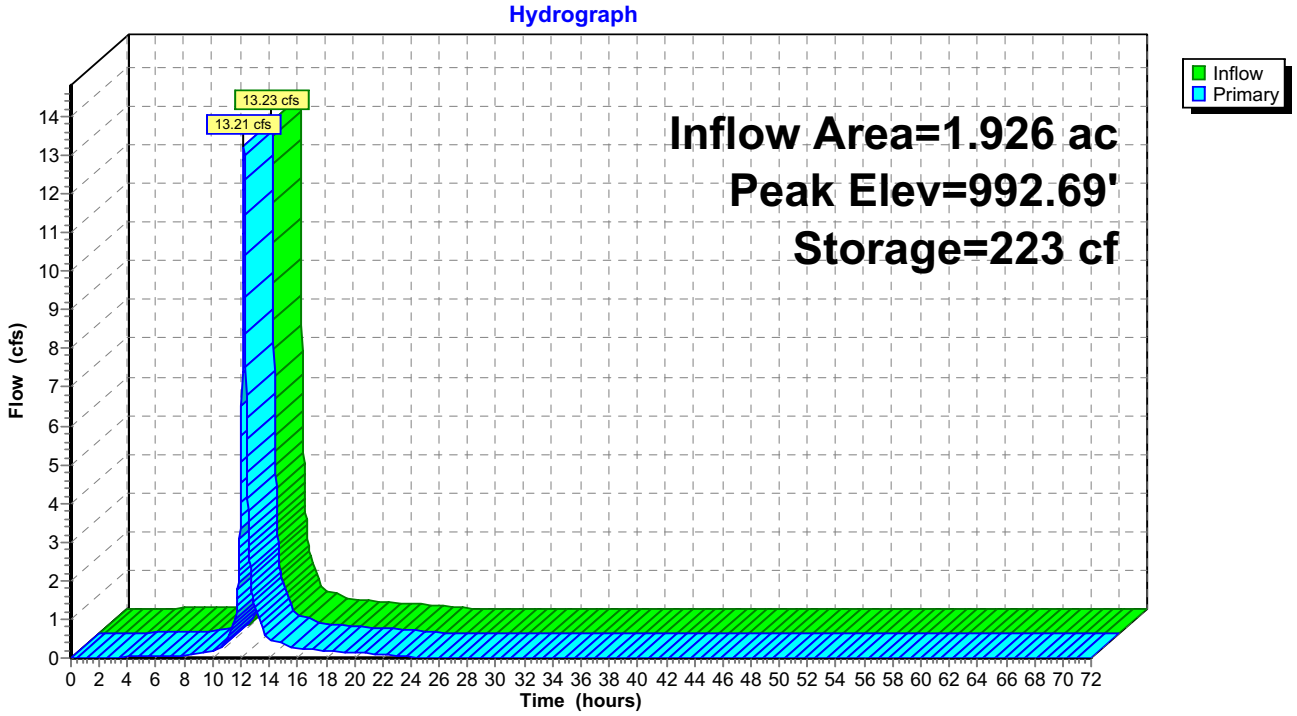
Volume	Invert	Avail.Storage	Storage Description
#1	992.00'	1,690 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
992.00	50	0	0
994.00	1,640	1,690	1,690

Device	Routing	Invert	Outlet Devices
#1	Primary	992.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=13.18 cfs @ 12.20 hrs HW=992.69' TW=980.01' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 13.18 cfs @ 2.71 fps)

Pond CB_E15: CB_E15



Summary for Pond CB_E16: CB_E16

Inflow Area = 1.374 ac, 25.84% Impervious, Inflow Depth = 5.03" for 100yr-24hr event
Inflow = 9.40 cfs @ 12.20 hrs, Volume= 0.577 af
Outflow = 9.32 cfs @ 12.21 hrs, Volume= 0.577 af, Atten= 1%, Lag= 0.8 min
Primary = 9.32 cfs @ 12.21 hrs, Volume= 0.577 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 996.55' @ 12.21 hrs Surf.Area= 1,234 sf Storage= 350 cf

Plug-Flow detention time= 0.5 min calculated for 0.576 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (783.3 - 782.9)

Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	4,440 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

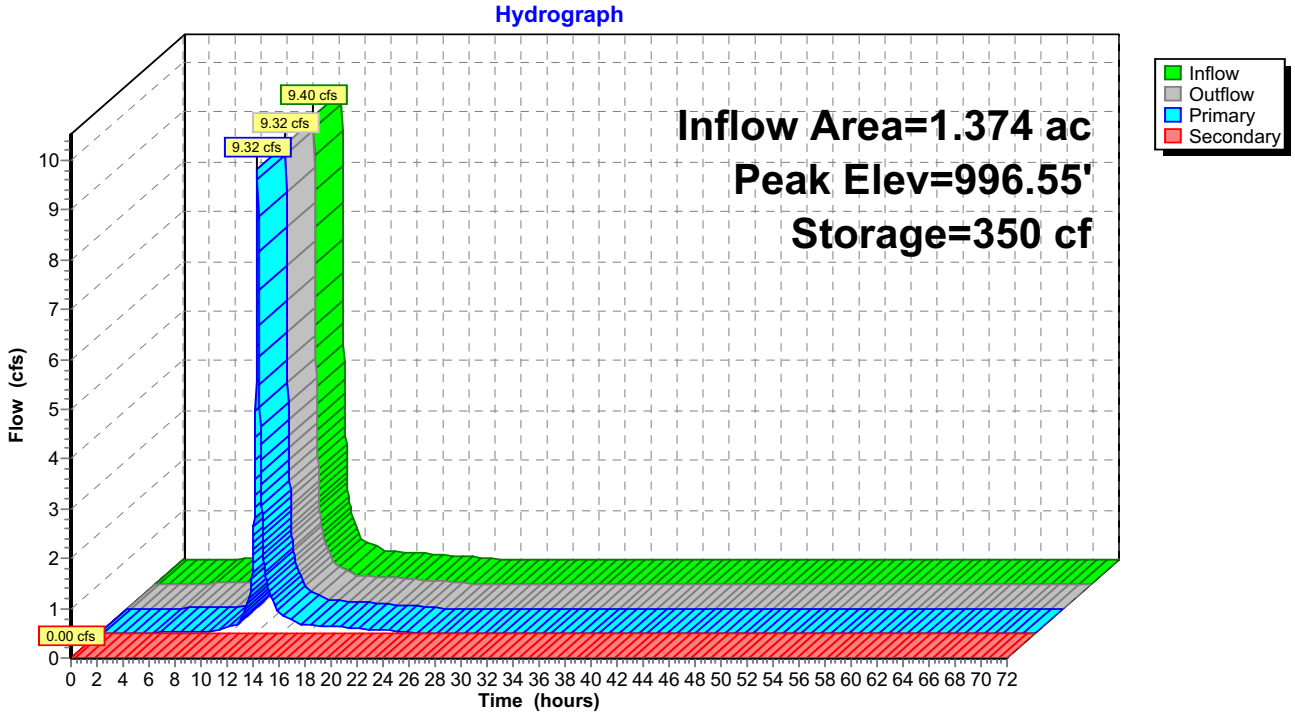
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
996.00	50	0	0
998.00	4,390	4,440	4,440

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	997.90'	**5.0' 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=9.27 cfs @ 12.21 hrs HW=996.54' TW=980.05' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 9.27 cfs @ 2.41 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=996.00' TW=992.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_E16: CB_E16



Summary for Pond CB_E17: CB_E17

Inflow Area = 0.991 ac, 20.48% Impervious, Inflow Depth = 4.89" for 100yr-24hr event
Inflow = 6.65 cfs @ 12.20 hrs, Volume= 0.404 af
Outflow = 6.61 cfs @ 12.21 hrs, Volume= 0.404 af, Atten= 1%, Lag= 0.6 min
Primary = 6.61 cfs @ 12.21 hrs, Volume= 0.404 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,002.43' @ 12.21 hrs Surf.Area= 876 sf Storage= 312 cf

Plug-Flow detention time= 1.9 min calculated for 0.404 af (100% of inflow)
Center-of-Mass det. time= 1.6 min (788.3 - 786.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,001.99'	2,228 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,001.99	50	0	0
1,002.00	550	3	3
1,003.00	1,300	925	928
1,004.00	1,300	1,300	2,228

Device	Routing	Invert	Outlet Devices
#1	Primary	1,002.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,003.00'	**5.0' 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=6.58 cfs @ 12.21 hrs HW=1,002.43' TW=980.04' (Dynamic Tailwater)
1=Grate (Weir Controls 6.58 cfs @ 2.15 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,001.99' TW=996.00' (Dynamic Tailwater)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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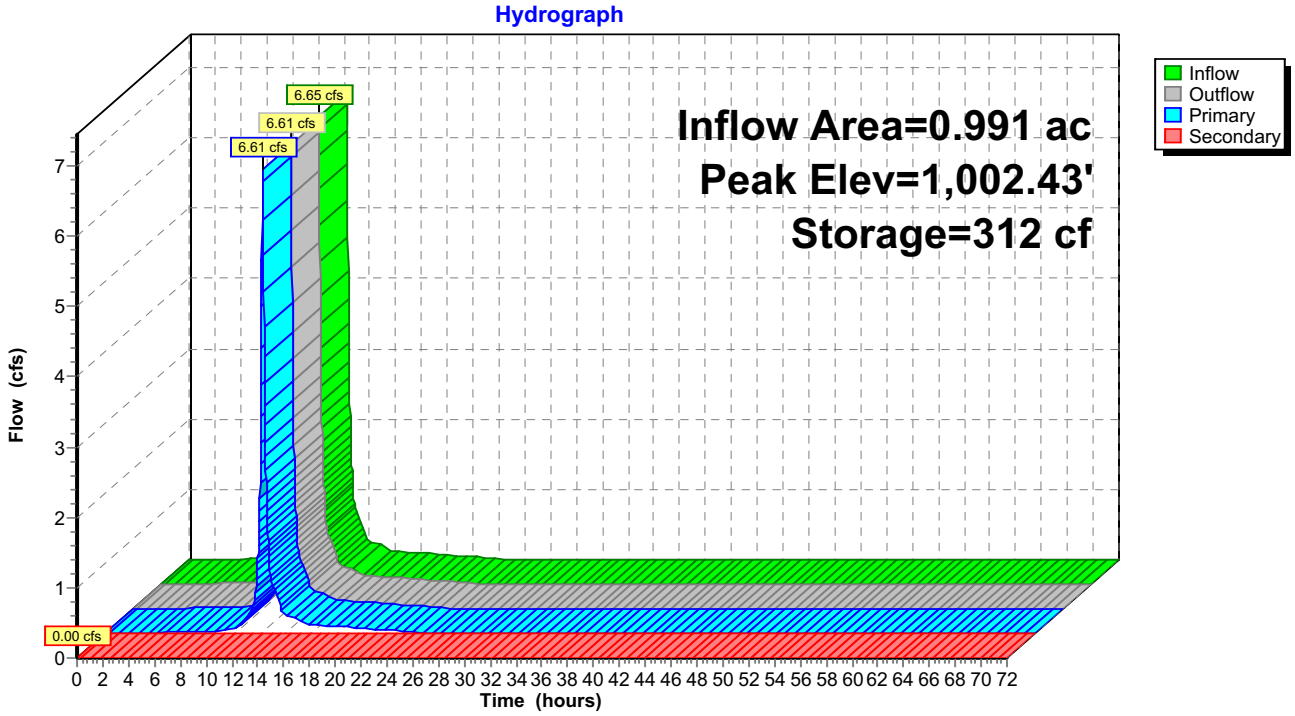
Pond CB_E17: CB_E17



Summary for Pond CB_E18: CB_E18

Inflow Area = 1.734 ac, 9.86% Impervious, Inflow Depth = 4.59" for 100yr-24hr event
Inflow = 11.17 cfs @ 12.20 hrs, Volume= 0.664 af
Outflow = 11.13 cfs @ 12.21 hrs, Volume= 0.663 af, Atten= 0%, Lag= 0.5 min
Primary = 11.13 cfs @ 12.21 hrs, Volume= 0.663 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 1,008.61' @ 12.21 hrs Surf.Area= 842 sf Storage= 562 cf

Plug-Flow detention time= 3.6 min calculated for 0.663 af (100% of inflow)
Center-of-Mass det. time= 2.6 min (797.7 - 795.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,007.90'	1,729 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,007.90	50	0	0
1,008.00	842	45	45
1,009.00	842	842	887
1,010.00	842	842	1,729

Device	Routing	Invert	Outlet Devices
#1	Primary	1,008.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	1,009.00'	**5.0' 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=11.08 cfs @ 12.21 hrs HW=1,008.61' TW=980.03' (Dynamic Tailwater)
↑**1=Grate** (Weir Controls 11.08 cfs @ 2.56 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,007.90' TW=1,001.99' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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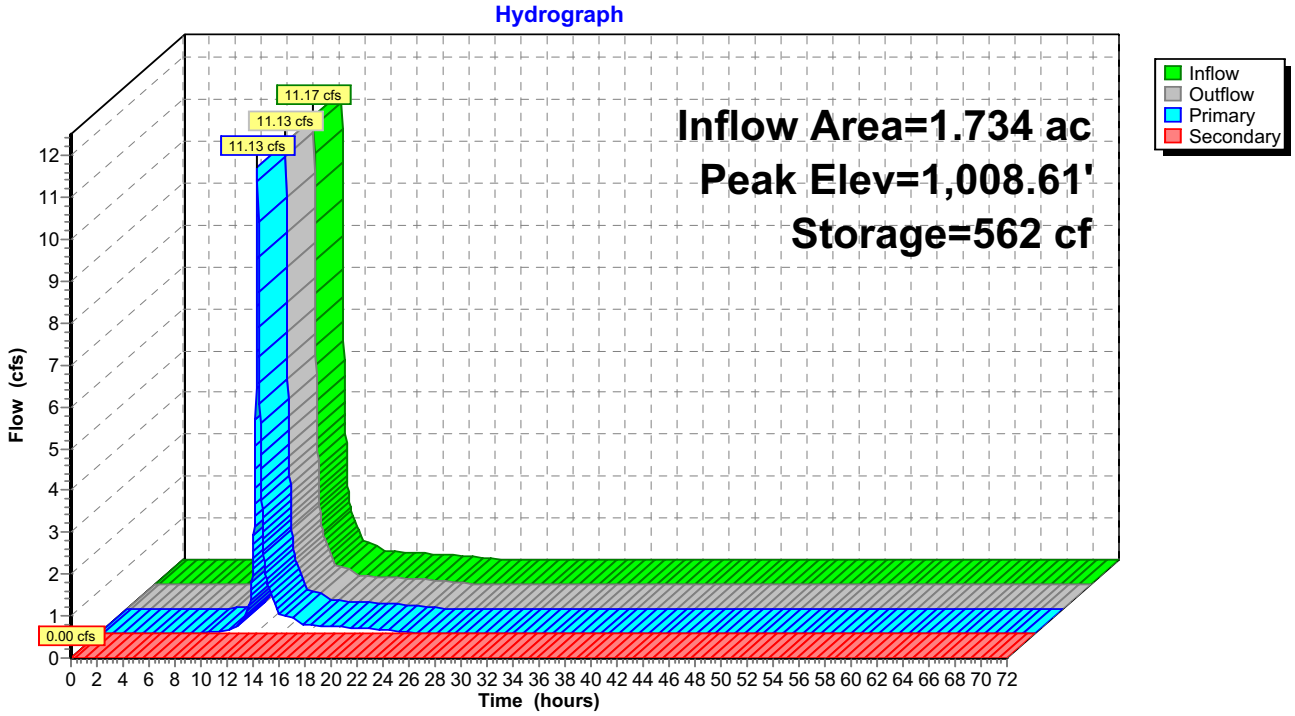
Pond CB_E18: CB_E18



Summary for Pond CB_F5: CB_F5

Inflow Area = 1.224 ac, 21.24% Impervious, Inflow Depth = 7.23" for 100yr-24hr event
Inflow = 10.80 cfs @ 12.20 hrs, Volume= 0.738 af
Outflow = 10.69 cfs @ 12.21 hrs, Volume= 0.738 af, Atten= 1%, Lag= 0.9 min
Primary = 10.69 cfs @ 12.21 hrs, Volume= 0.738 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 983.60' @ 12.21 hrs Surf.Area= 1,455 sf Storage= 450 cf

Plug-Flow detention time= 0.5 min calculated for 0.737 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (795.4 - 795.0)

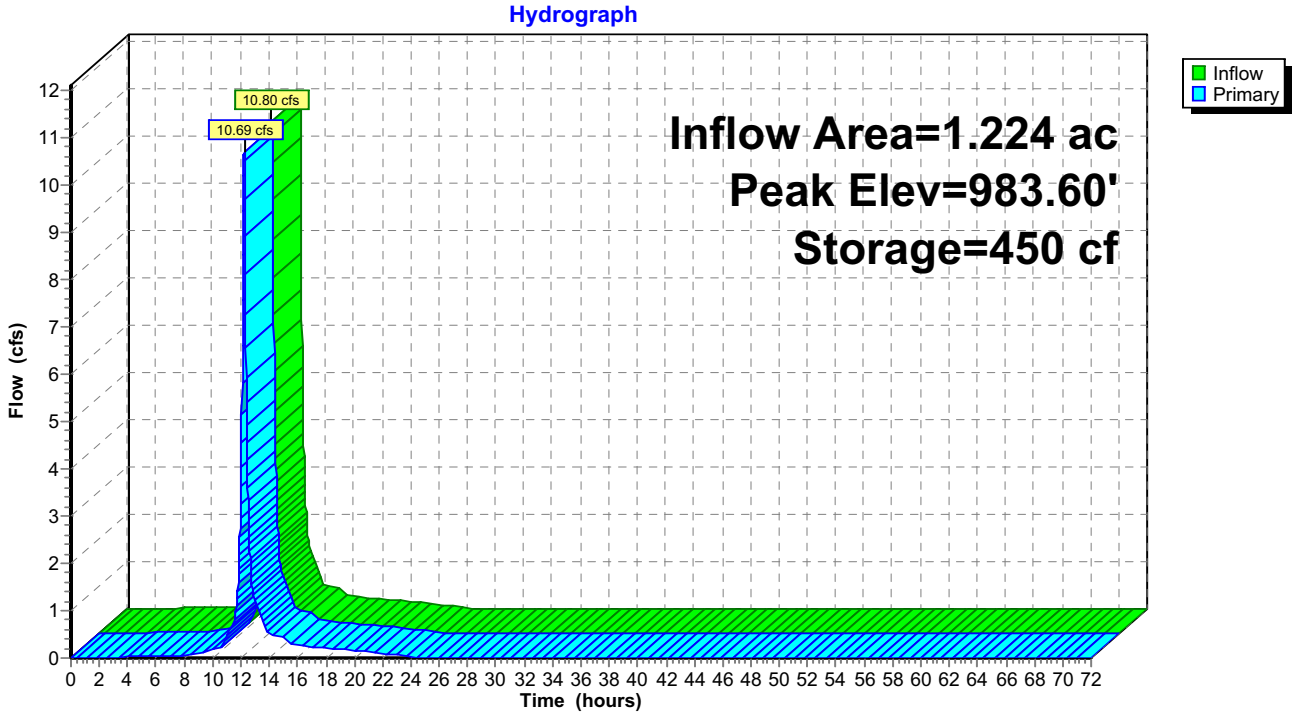
Volume	Invert	Avail.Storage	Storage Description
#1	983.00'	13,525 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
983.00	50	0	0
984.00	2,400	1,225	1,225
986.00	9,900	12,300	13,525

Device	Routing	Invert	Outlet Devices
#1	Primary	983.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=10.64 cfs @ 12.21 hrs HW=983.60' TW=970.53' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 10.64 cfs @ 2.53 fps)

Pond CB_F5: CB_F5



Summary for Pond CB_F6: CB_F6

Inflow Area = 0.921 ac, 21.06% Impervious, Inflow Depth = 4.90" for 100yr-24hr event
Inflow = 6.19 cfs @ 12.20 hrs, Volume= 0.376 af
Outflow = 6.19 cfs @ 12.20 hrs, Volume= 0.376 af, Atten= 0%, Lag= 0.1 min
Primary = 3.62 cfs @ 12.20 hrs, Volume= 0.139 af
Secondary = 2.57 cfs @ 12.20 hrs, Volume= 0.237 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 986.29' @ 12.20 hrs Surf.Area= 130 sf Storage= 26 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 0.1 min (786.3 - 786.3)

Volume	Invert	Avail.Storage	Storage Description
#1	986.00'	650 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
986.00	50	0	0
988.00	600	650	650

Device	Routing	Invert	Outlet Devices
#1	Primary	986.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	985.95'	**5.0' 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=3.61 cfs @ 12.20 hrs HW=986.29' TW=970.42' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 3.61 cfs @ 1.76 fps)

Secondary OutFlow Max=2.57 cfs @ 12.20 hrs HW=986.29' TW=983.59' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 2.57 cfs @ 1.51 fps)

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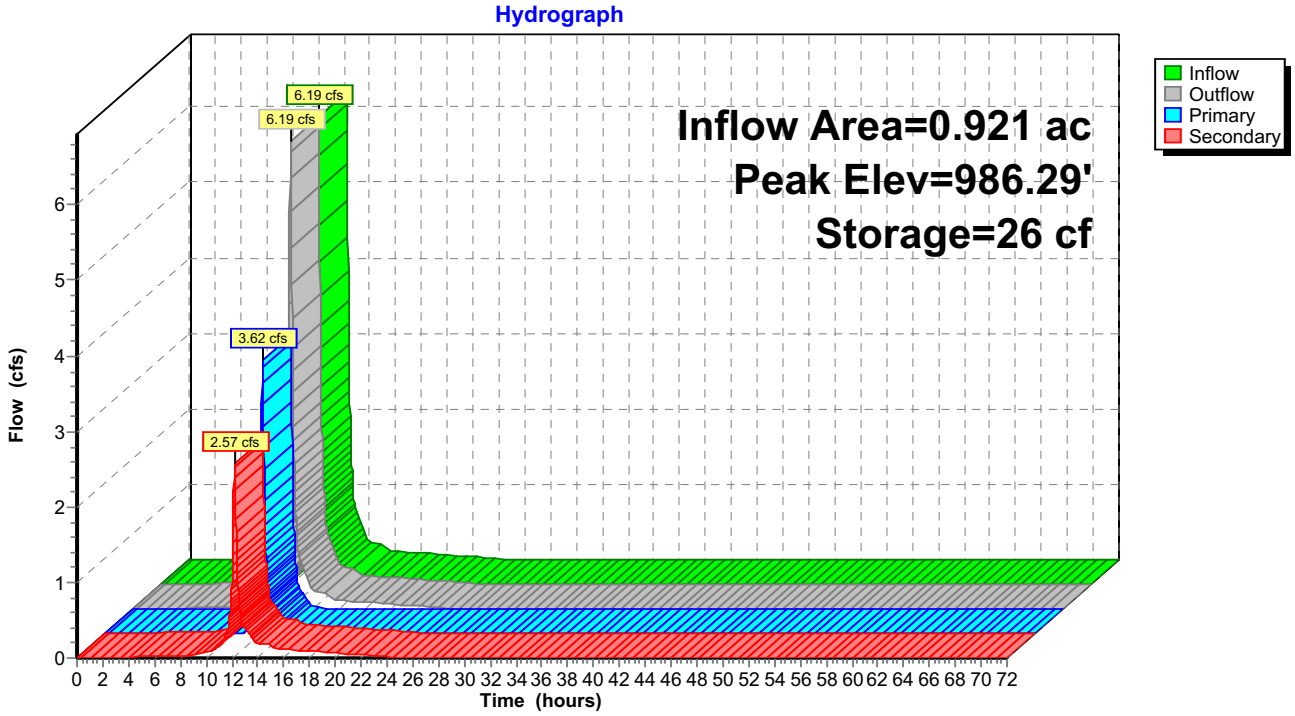
Pond CB_F6: CB_F6



Summary for Pond CB_F7: CB_F7

Inflow Area = 0.667 ac, 11.69% Impervious, Inflow Depth = 4.64" for 100yr-24hr event
Inflow = 4.33 cfs @ 12.20 hrs, Volume= 0.258 af
Outflow = 4.32 cfs @ 12.20 hrs, Volume= 0.258 af, Atten= 0%, Lag= 0.4 min
Primary = 4.32 cfs @ 12.20 hrs, Volume= 0.258 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 986.83' @ 12.20 hrs Surf.Area= 425 sf Storage= 78 cf

Plug-Flow detention time= 0.3 min calculated for 0.258 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (793.8 - 793.6)

Volume	Invert	Avail.Storage	Storage Description
#1	986.50'	1,365 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
986.50	50	0	0
988.00	1,770	1,365	1,365

Device	Routing	Invert	Outlet Devices
#1	Primary	986.50'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	987.90'	**5.0' 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=4.31 cfs @ 12.20 hrs HW=986.83' TW=970.46' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 4.31 cfs @ 1.87 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=986.50' TW=986.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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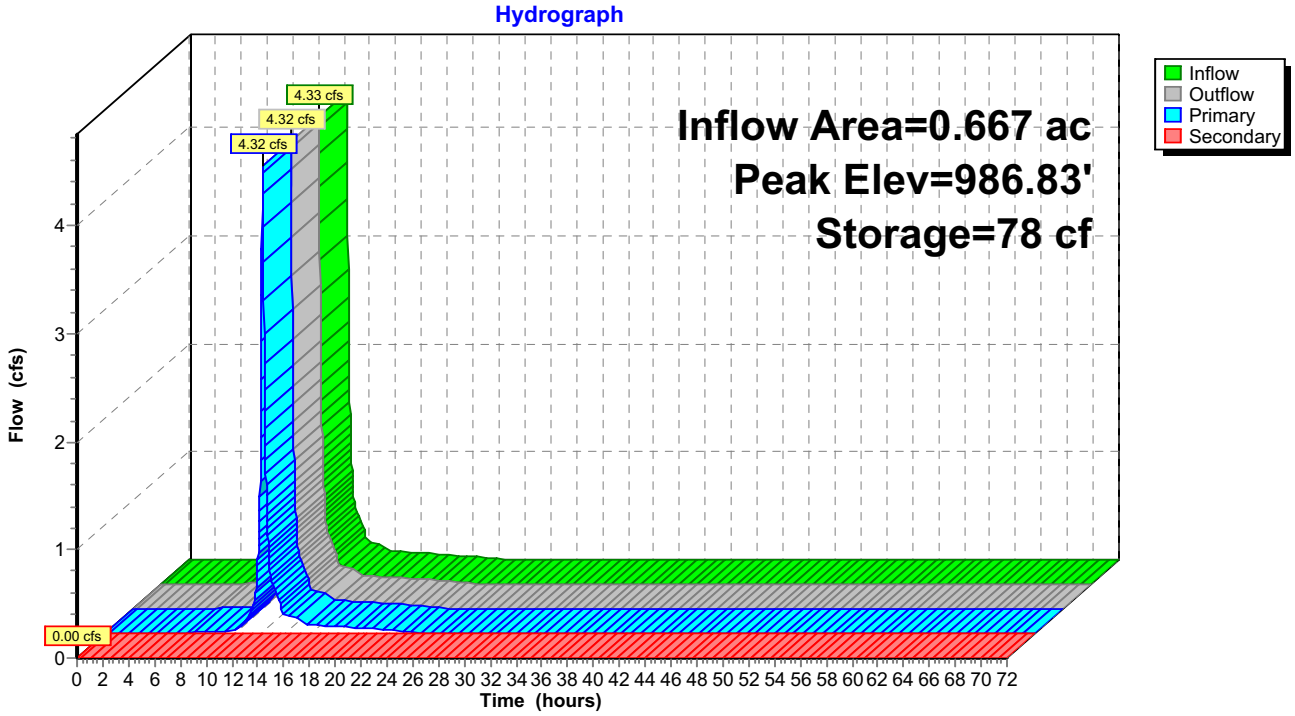
Pond CB_F7: CB_F7



Summary for Pond CB_F8: CB_F8

Inflow Area = 1.906 ac, 16.00% Impervious, Inflow Depth = 4.76" for 100yr-24hr event
Inflow = 12.57 cfs @ 12.20 hrs, Volume= 0.757 af
Outflow = 12.50 cfs @ 12.21 hrs, Volume= 0.757 af, Atten= 1%, Lag= 0.6 min
Primary = 12.50 cfs @ 12.21 hrs, Volume= 0.757 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 989.66' @ 12.21 hrs Surf.Area= 1,079 sf Storage= 375 cf

Plug-Flow detention time= 0.4 min calculated for 0.756 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (790.5 - 790.1)

Volume	Invert	Avail.Storage	Storage Description
#1	989.00'	825 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
989.00	50	0	0
990.00	1,600	825	825

Device	Routing	Invert	Outlet Devices
#1	Primary	989.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.90'	**5.0' 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=12.44 cfs @ 12.21 hrs HW=989.66' TW=970.50' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 12.44 cfs @ 2.66 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=989.00' TW=986.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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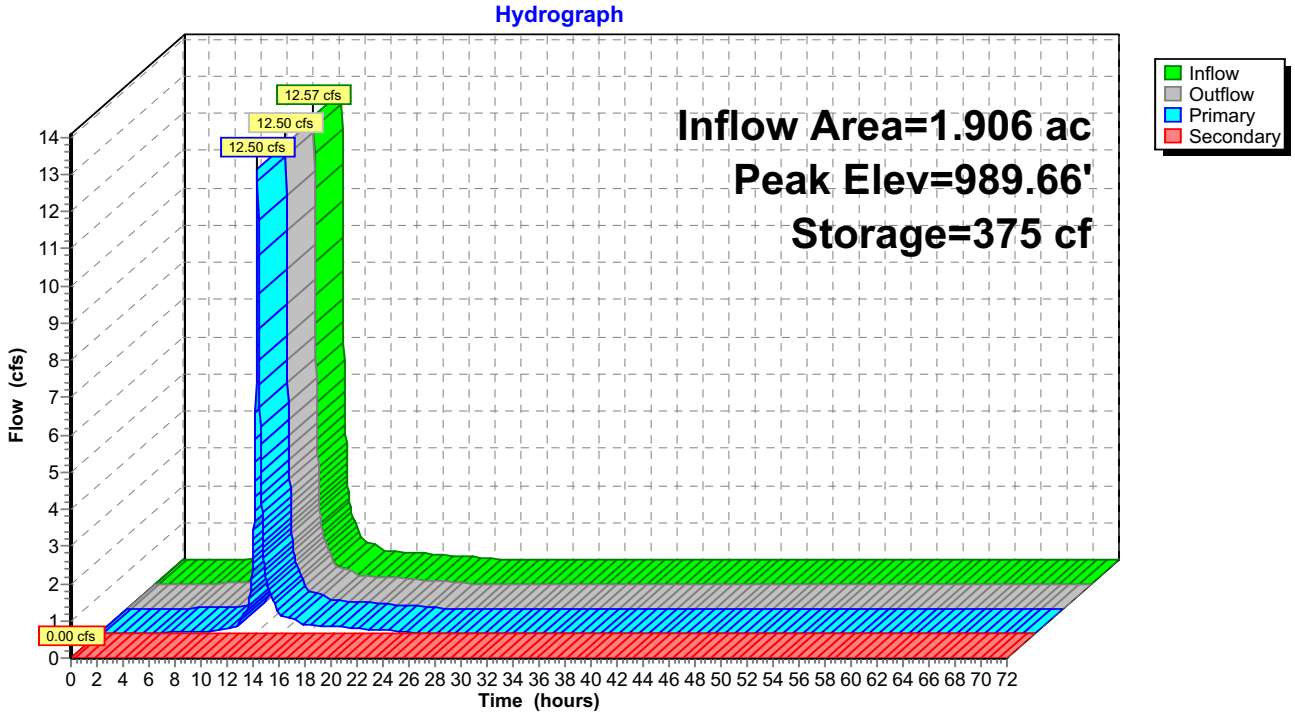
Pond CB_F8: CB_F8



Summary for Pond CB_H5: CB_H5

Inflow Area = 2.168 ac, 27.21% Impervious, Inflow Depth = 4.74" for 100yr-24hr event
Inflow = 13.84 cfs @ 12.20 hrs, Volume= 0.856 af
Outflow = 13.67 cfs @ 12.21 hrs, Volume= 0.856 af, Atten= 1%, Lag= 0.9 min
Primary = 13.67 cfs @ 12.21 hrs, Volume= 0.856 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 972.70' @ 12.21 hrs Surf.Area= 1,680 sf Storage= 610 cf

Plug-Flow detention time= 0.5 min calculated for 0.855 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (783.9 - 783.4)

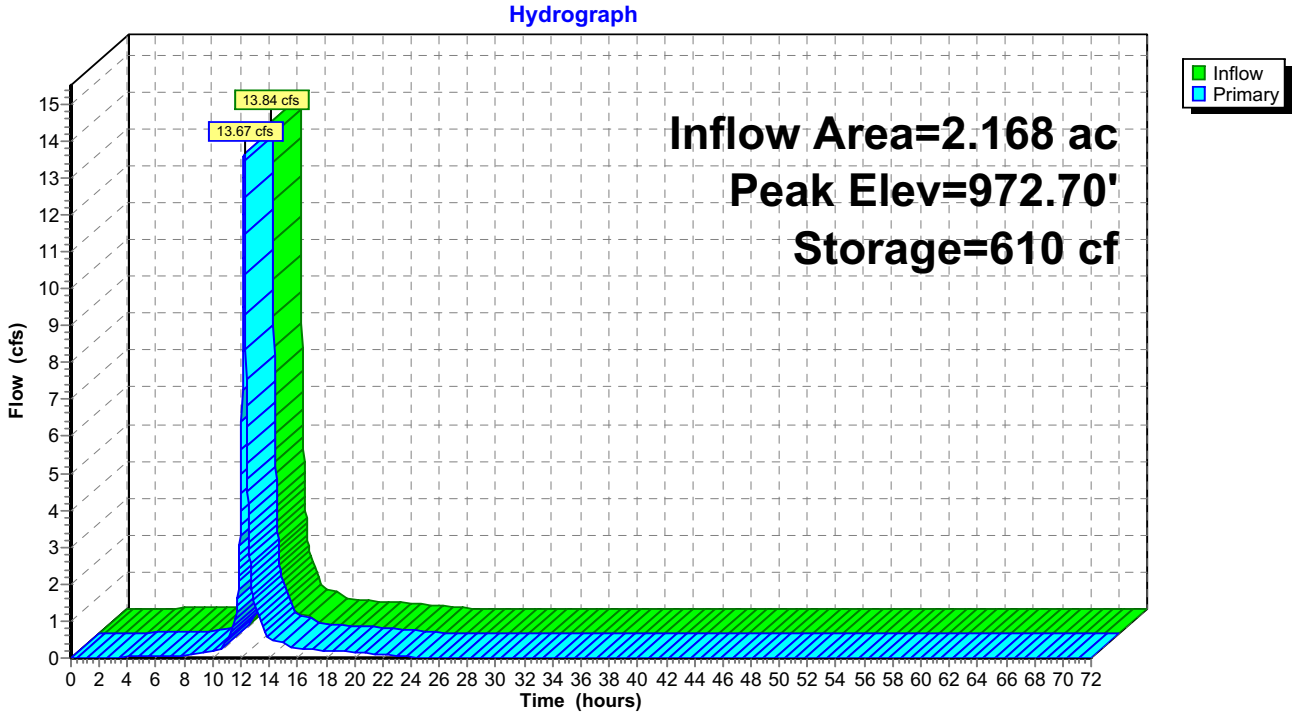
Volume	Invert	Avail.Storage	Storage Description
#1	972.00'	30,964 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
972.00	50	0	0
974.00	4,677	4,727	4,727
976.00	21,560	26,237	30,964

Device	Routing	Invert	Outlet Devices
#1	Primary	972.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=13.62 cfs @ 12.21 hrs HW=972.70' TW=969.13' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 13.62 cfs @ 2.74 fps)

Pond CB_H5: CB_H5



Summary for Pond CB_H6: CB_H6

Inflow Area = 1.008 ac, 19.54% Impervious, Inflow Depth = 3.98" for 100yr-24hr event
Inflow = 5.45 cfs @ 12.20 hrs, Volume= 0.334 af
Outflow = 5.30 cfs @ 12.22 hrs, Volume= 0.334 af, Atten= 3%, Lag= 1.4 min
Primary = 5.30 cfs @ 12.22 hrs, Volume= 0.334 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 973.37' @ 12.22 hrs Surf.Area= 1,941 sf Storage= 373 cf

Plug-Flow detention time= 0.8 min calculated for 0.334 af (100% of inflow)
Center-of-Mass det. time= 0.8 min (794.1 - 793.3)

Volume	Invert	Avail.Storage	Storage Description
#1	973.00'	35,125 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
973.00	50	0	0
974.00	5,100	2,575	2,575
975.00	20,000	12,550	15,125
976.00	20,000	20,000	35,125

Device	Routing	Invert	Outlet Devices
#1	Primary	973.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	975.00'	**5.0' 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=5.28 cfs @ 12.22 hrs HW=973.37' TW=969.19' (Dynamic Tailwater)
↑**1=Grate** (Weir Controls 5.28 cfs @ 2.00 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.00' TW=967.50' (Dynamic Tailwater)
↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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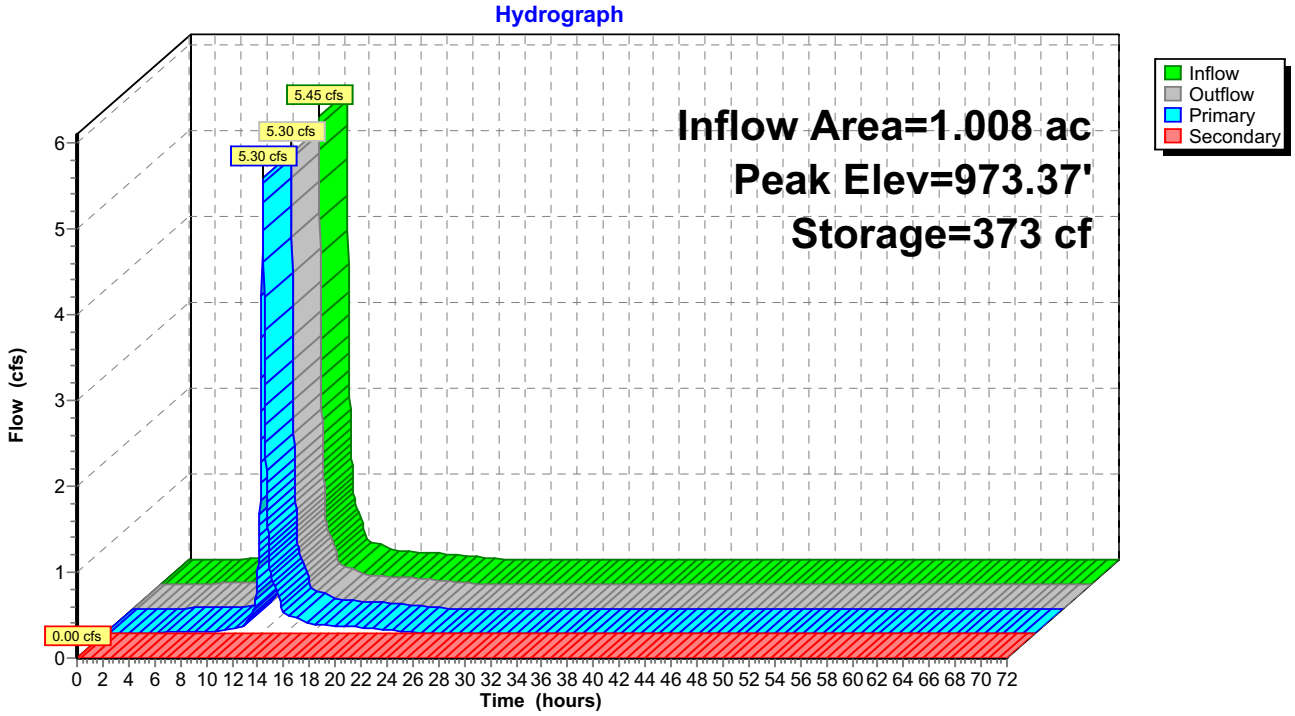
Pond CB_H6: CB_H6



Summary for Pond CB_H7: CB_H7

Inflow Area = 1.176 ac, 19.64% Impervious, Inflow Depth = 4.17" for 100yr-24hr event
Inflow = 6.67 cfs @ 12.20 hrs, Volume= 0.408 af
Outflow = 6.40 cfs @ 12.23 hrs, Volume= 0.408 af, Atten= 4%, Lag= 1.8 min
Primary = 6.40 cfs @ 12.23 hrs, Volume= 0.408 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 974.42' @ 12.23 hrs Surf.Area= 2,430 sf Storage= 1,045 cf

Plug-Flow detention time= 6.9 min calculated for 0.408 af (100% of inflow)
Center-of-Mass det. time= 6.5 min (798.2 - 791.8)

Volume	Invert	Avail.Storage	Storage Description
#1	973.99'	4,872 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
973.99	50	0	0
974.00	2,430	12	12
976.00	2,430	4,860	4,872

Device	Routing	Invert	Outlet Devices
#1	Primary	974.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	975.00'	**5.0' 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=6.37 cfs @ 12.23 hrs HW=974.42' TW=969.22' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 6.37 cfs @ 2.13 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.99' TW=973.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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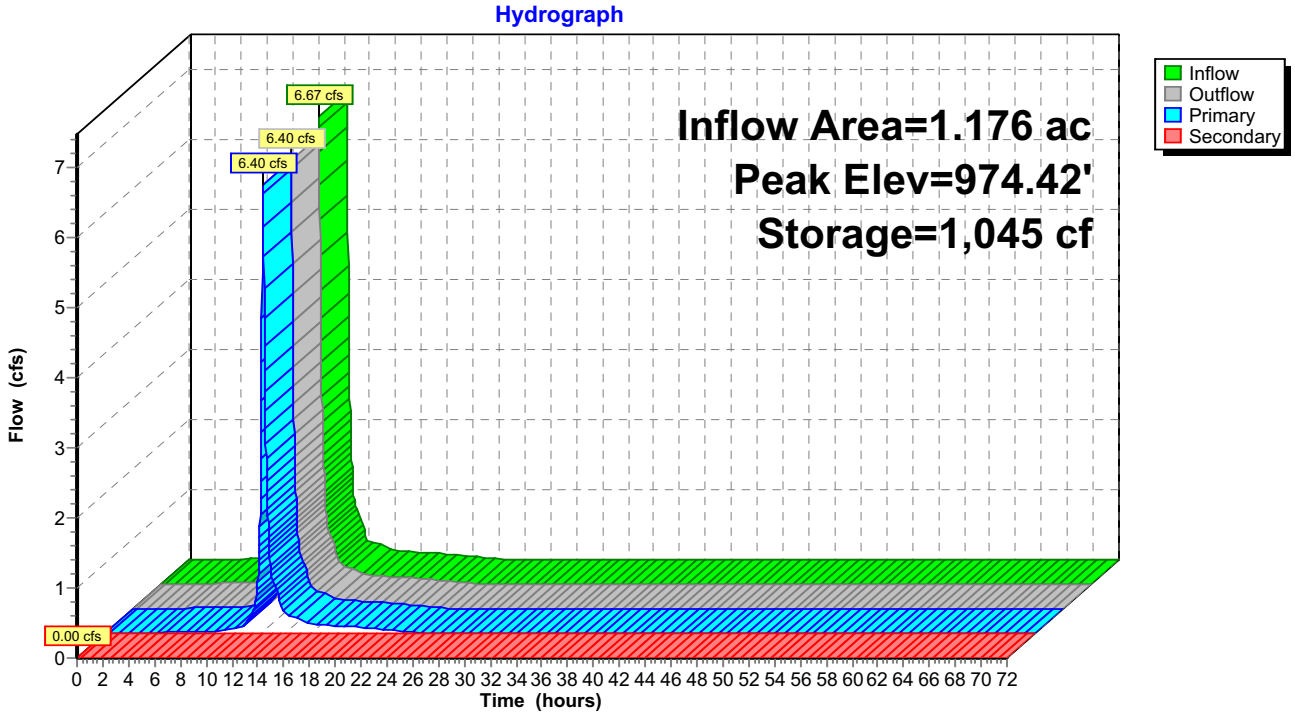
Pond CB_H7: CB_H7



Summary for Pond CB_I7: CB_I7

Inflow Area = 1.268 ac, 17.51% Impervious, Inflow Depth = 4.81" for 100yr-24hr event
Inflow = 8.41 cfs @ 12.20 hrs, Volume= 0.508 af
Outflow = 8.36 cfs @ 12.21 hrs, Volume= 0.508 af, Atten= 1%, Lag= 0.7 min
Primary = 8.36 cfs @ 12.21 hrs, Volume= 0.508 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 985.51' @ 12.21 hrs Surf.Area= 989 sf Storage= 264 cf

Plug-Flow detention time= 0.4 min calculated for 0.508 af (100% of inflow)
Center-of-Mass det. time= 0.4 min (789.4 - 789.0)

Volume	Invert	Avail.Storage	Storage Description
#1	985.00'	11,205 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
985.00	50	0	0
986.00	1,900	975	975
988.00	8,330	10,230	11,205

Device	Routing	Invert	Outlet Devices
#1	Primary	985.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	987.90'	**5.0' 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=8.32 cfs @ 12.21 hrs HW=985.51' TW=971.09' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 8.32 cfs @ 2.33 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=985.00' TW=0.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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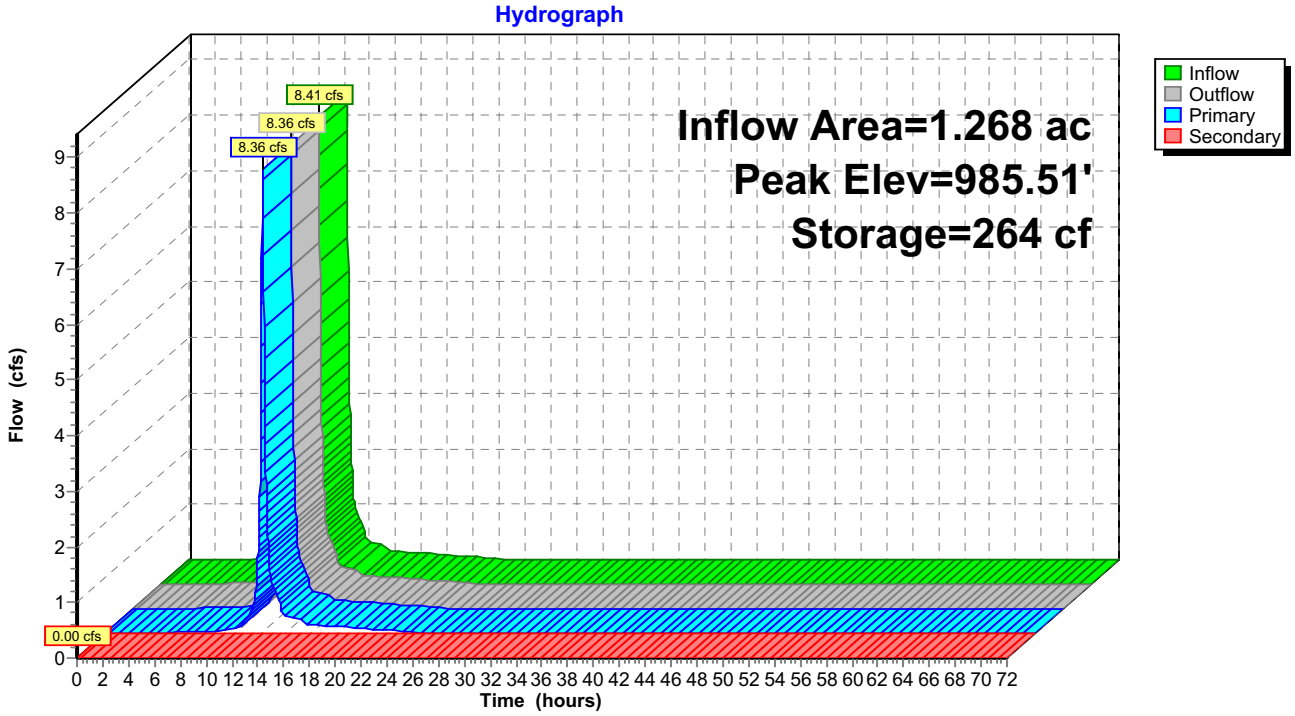
Pond CB_I7: CB_I7



Summary for Pond CB_I8: CB_I8

Inflow Area = 1.173 ac, 25.23% Impervious, Inflow Depth = 5.02" for 100yr-24hr event
Inflow = 8.01 cfs @ 12.20 hrs, Volume= 0.491 af
Outflow = 8.00 cfs @ 12.20 hrs, Volume= 0.491 af, Atten= 0%, Lag= 0.3 min
Primary = 8.00 cfs @ 12.20 hrs, Volume= 0.491 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 987.49' @ 12.20 hrs Surf.Area= 434 sf Storage= 119 cf

Plug-Flow detention time= 0.2 min calculated for 0.490 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (783.5 - 783.3)

Volume	Invert	Avail.Storage	Storage Description
#1	987.00'	3,105 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

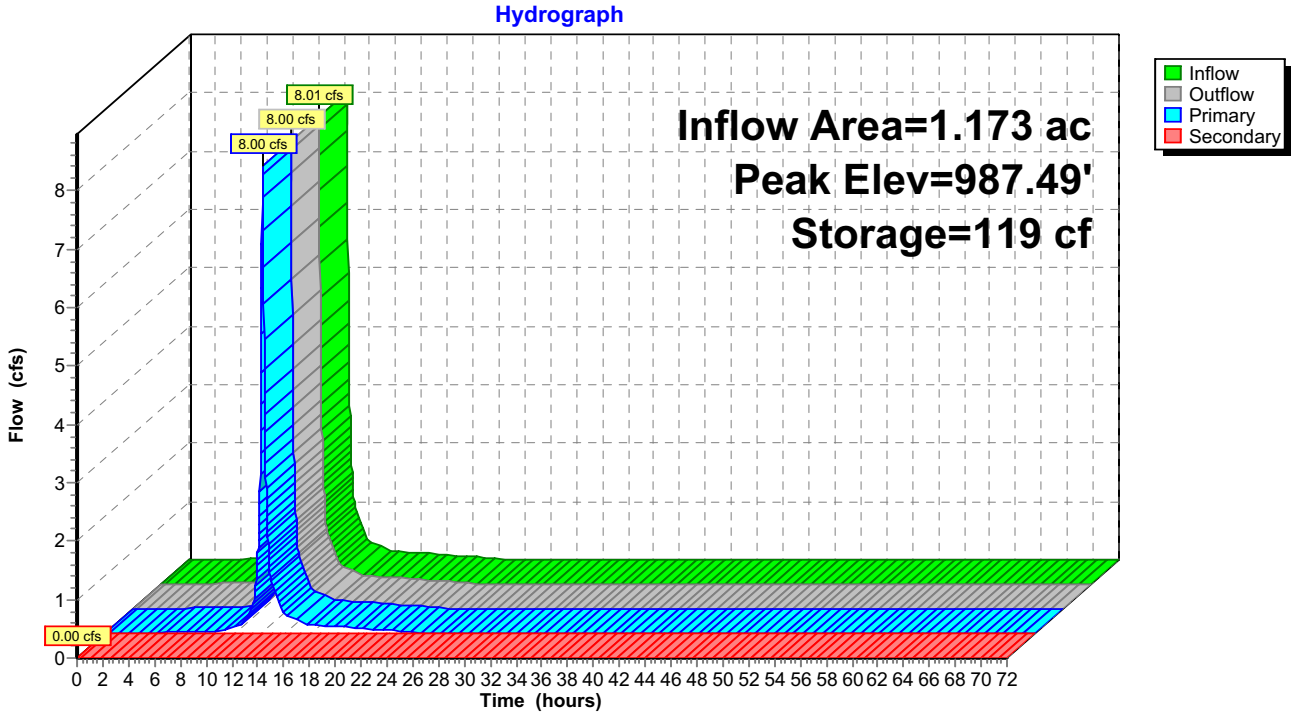
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
987.00	50	0	0
988.00	830	440	440
989.00	1,500	1,165	1,605
990.00	1,500	1,500	3,105

Device	Routing	Invert	Outlet Devices
#1	Primary	987.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.00'	**5.0' 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=7.98 cfs @ 12.20 hrs HW=987.49' TW=971.05' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 7.98 cfs @ 2.29 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=987.00' TW=985.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_I8: CB_I8



Summary for Pond CB_I9: CB_I9

Inflow Area = 0.256 ac, 27.73% Impervious, Inflow Depth = 5.09" for 100yr-24hr event
Inflow = 1.76 cfs @ 12.20 hrs, Volume= 0.109 af
Outflow = 1.76 cfs @ 12.20 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.2 min
Primary = 1.76 cfs @ 12.20 hrs, Volume= 0.109 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.18' @ 12.20 hrs Surf.Area= 140 sf Storage= 17 cf

Plug-Flow detention time= 0.2 min calculated for 0.108 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (781.8 - 781.6)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	1,818 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

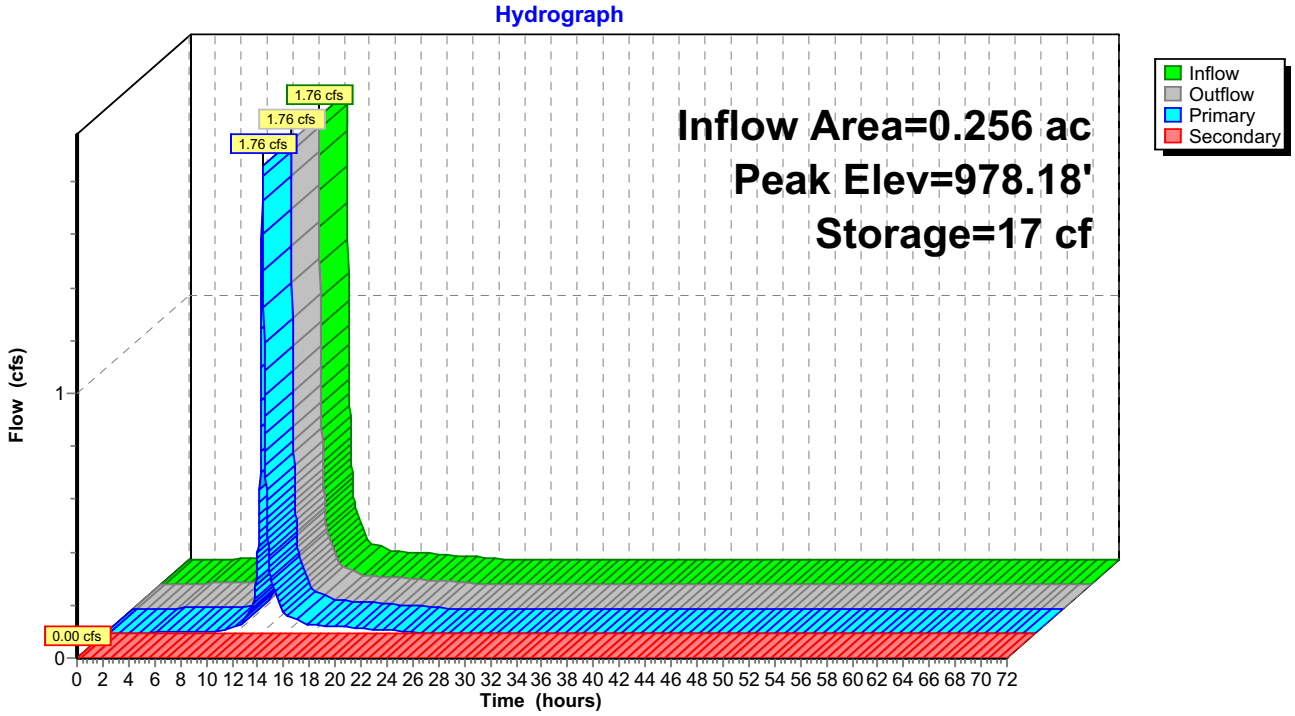
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
978.50	300	88	88
980.00	300	450	538
984.00	340	1,280	1,818

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	978.50'	**3.0' 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=1.76 cfs @ 12.20 hrs HW=978.18' TW=972.44' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 1.76 cfs @ 1.39 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=969.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_I9: CB_I9



Summary for Pond CB_J3: CB_J3

Inflow Area = 1.496 ac, 20.32% Impervious, Inflow Depth = 4.88" for 100yr-24hr event
Inflow = 10.03 cfs @ 12.20 hrs, Volume= 0.609 af
Outflow = 10.00 cfs @ 12.21 hrs, Volume= 0.609 af, Atten= 0%, Lag= 0.5 min
Primary = 10.00 cfs @ 12.21 hrs, Volume= 0.609 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 991.57' @ 12.21 hrs Surf.Area= 765 sf Storage= 233 cf

Plug-Flow detention time= 0.3 min calculated for 0.609 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (787.1 - 786.8)

Volume	Invert	Avail.Storage	Storage Description
#1	991.00'	4,575 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
991.00	50	0	0
992.00	1,300	675	675
993.00	1,300	1,300	1,975
995.00	1,300	2,600	4,575

Device	Routing	Invert	Outlet Devices
#1	Primary	991.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	992.00'	**5.0' 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=9.96 cfs @ 12.21 hrs HW=991.57' TW=975.16' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 9.96 cfs @ 2.47 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=991.00' TW=973.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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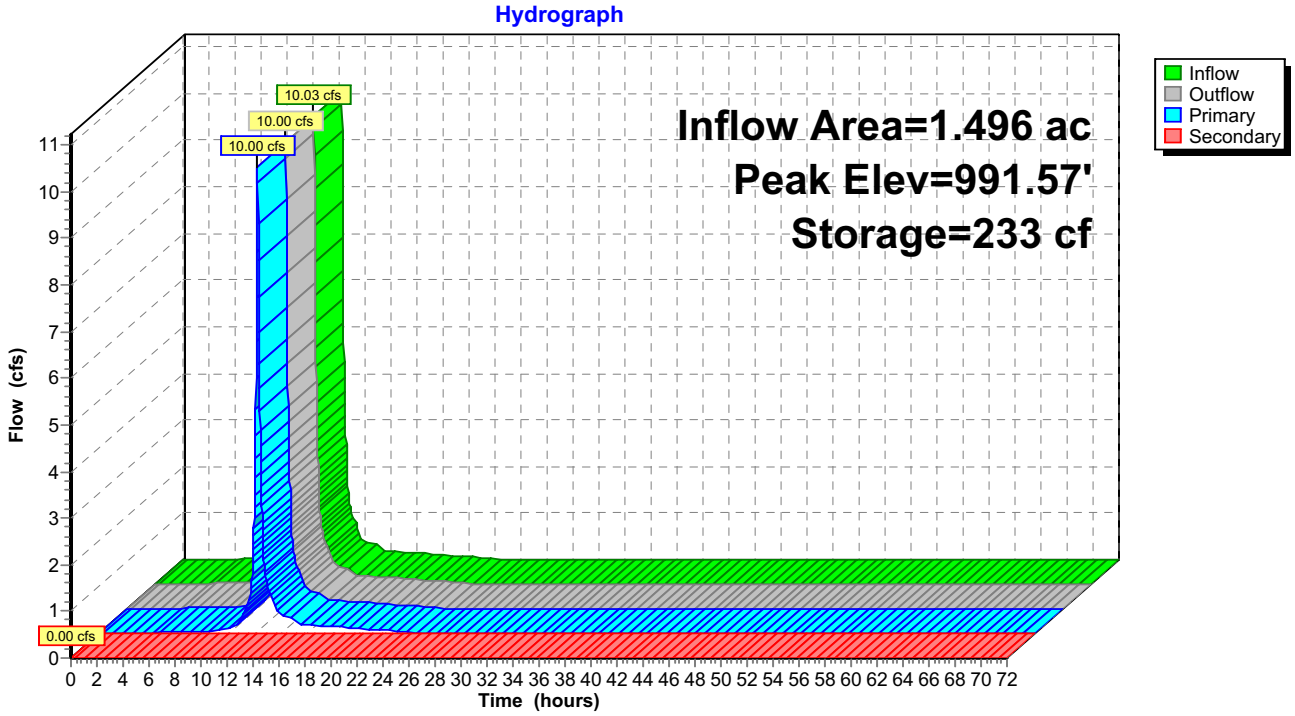
Pond CB_J3: CB_J3



Summary for Pond CB_J4: CB_J4

Inflow Area = 0.310 ac, 0.00% Impervious, Inflow Depth = 4.32" for 100yr-24hr event
Inflow = 1.92 cfs @ 12.20 hrs, Volume= 0.112 af
Outflow = 1.92 cfs @ 12.20 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.3 min
Primary = 1.92 cfs @ 12.20 hrs, Volume= 0.112 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 994.19' @ 12.20 hrs Surf.Area= 274 sf Storage= 31 cf

Plug-Flow detention time= 0.3 min calculated for 0.112 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (804.1 - 803.8)

Volume	Invert	Avail.Storage	Storage Description
#1	994.00'	4,130 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

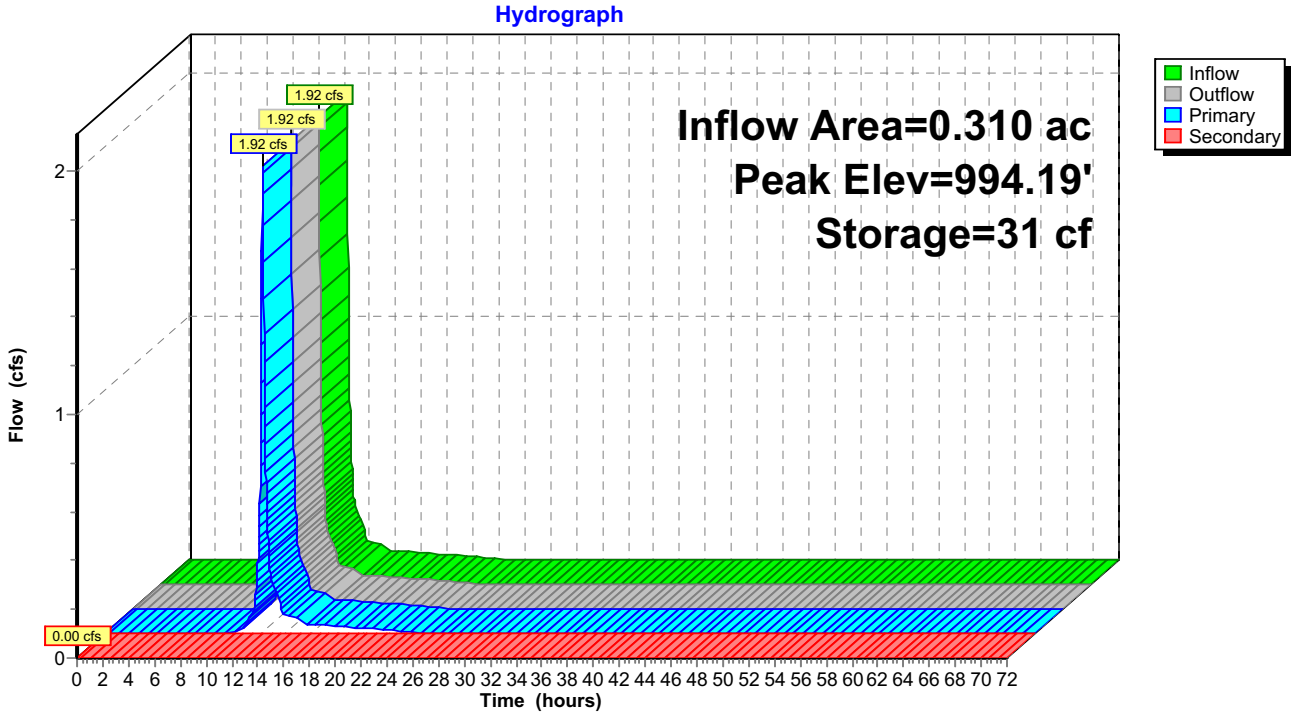
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
994.00	50	0	0
995.50	1,819	1,402	1,402
997.00	1,819	2,729	4,130

Device	Routing	Invert	Outlet Devices
#1	Primary	994.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	995.50'	**5.0' 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=1.91 cfs @ 12.20 hrs HW=994.19' TW=975.15' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.91 cfs @ 1.42 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=994.00' TW=991.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_J4: CB_J4



Summary for Pond CB_J5: CB_J5

Inflow Area = 0.683 ac, 17.72% Impervious, Inflow Depth = 4.81" for 100yr-24hr event
Inflow = 4.53 cfs @ 12.20 hrs, Volume= 0.274 af
Outflow = 4.53 cfs @ 12.20 hrs, Volume= 0.274 af, Atten= 0%, Lag= 0.3 min
Primary = 4.53 cfs @ 12.20 hrs, Volume= 0.274 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 997.34' @ 12.20 hrs Surf.Area= 418 sf Storage= 79 cf

Plug-Flow detention time= 0.3 min calculated for 0.274 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (789.1 - 788.8)

Volume	Invert	Avail.Storage	Storage Description
#1	997.00'	5,728 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
997.00	50	0	0
998.00	1,140	595	595
998.50	2,770	978	1,573
1,000.00	2,770	4,155	5,728

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	998.50'	**5.0' 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=4.51 cfs @ 12.20 hrs HW=997.34' TW=975.15' (Dynamic Tailwater)
└**1=Grate** (Weir Controls 4.51 cfs @ 1.90 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=997.00' TW=994.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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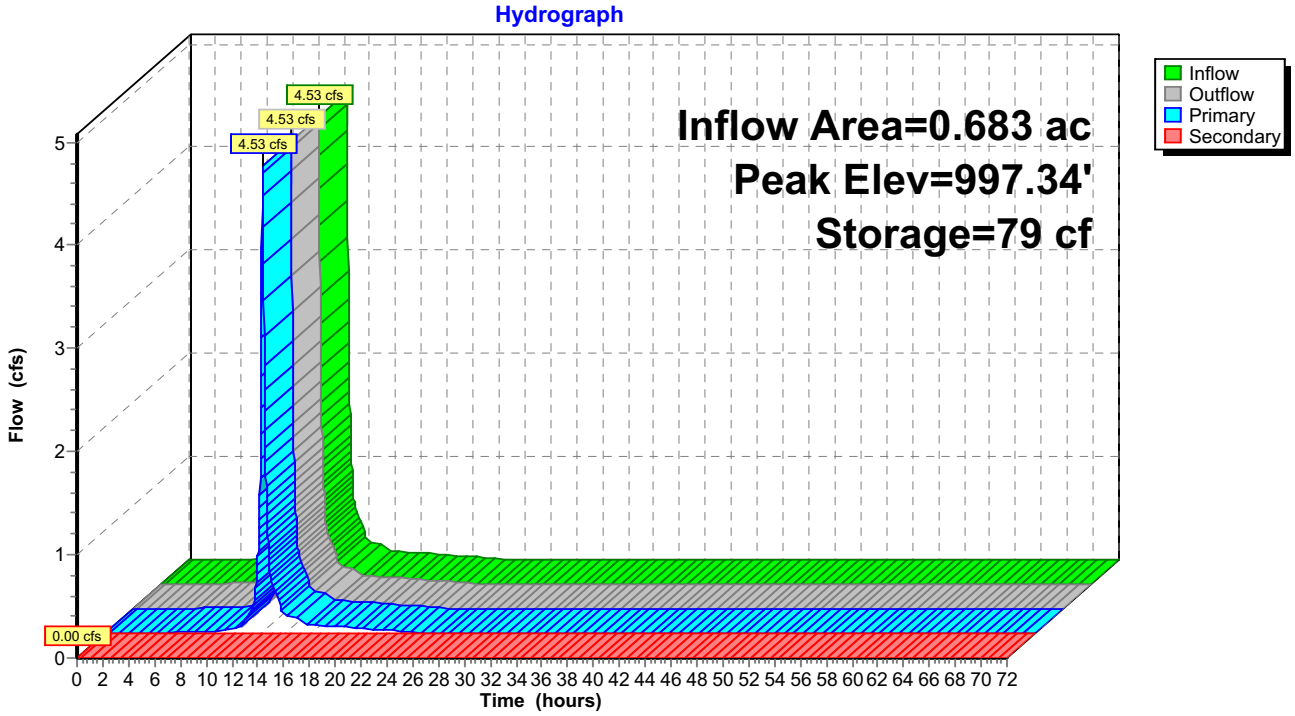
Pond CB_J5: CB_J5



Summary for Pond CB_L10: CB_L10

Inflow Area = 1.158 ac, 17.53% Impervious, Inflow Depth = 4.81" for 100yr-24hr event
Inflow = 7.68 cfs @ 12.20 hrs, Volume= 0.464 af
Outflow = 7.66 cfs @ 12.21 hrs, Volume= 0.464 af, Atten= 0%, Lag= 0.5 min
Primary = 7.66 cfs @ 12.21 hrs, Volume= 0.464 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 988.48' @ 12.21 hrs Surf.Area= 670 sf Storage= 324 cf

Plug-Flow detention time= 1.8 min calculated for 0.464 af (100% of inflow)
Center-of-Mass det. time= 1.7 min (790.6 - 788.9)

Volume	Invert	Avail.Storage	Storage Description
#1	987.99'	1,344 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
987.99	50	0	0
988.00	670	4	4
990.00	670	1,340	1,344

Device	Routing	Invert	Outlet Devices
#1	Primary	988.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	989.00'	**5.0' 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=7.63 cfs @ 12.21 hrs HW=988.48' TW=970.47' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 7.63 cfs @ 2.26 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=987.99' TW=982.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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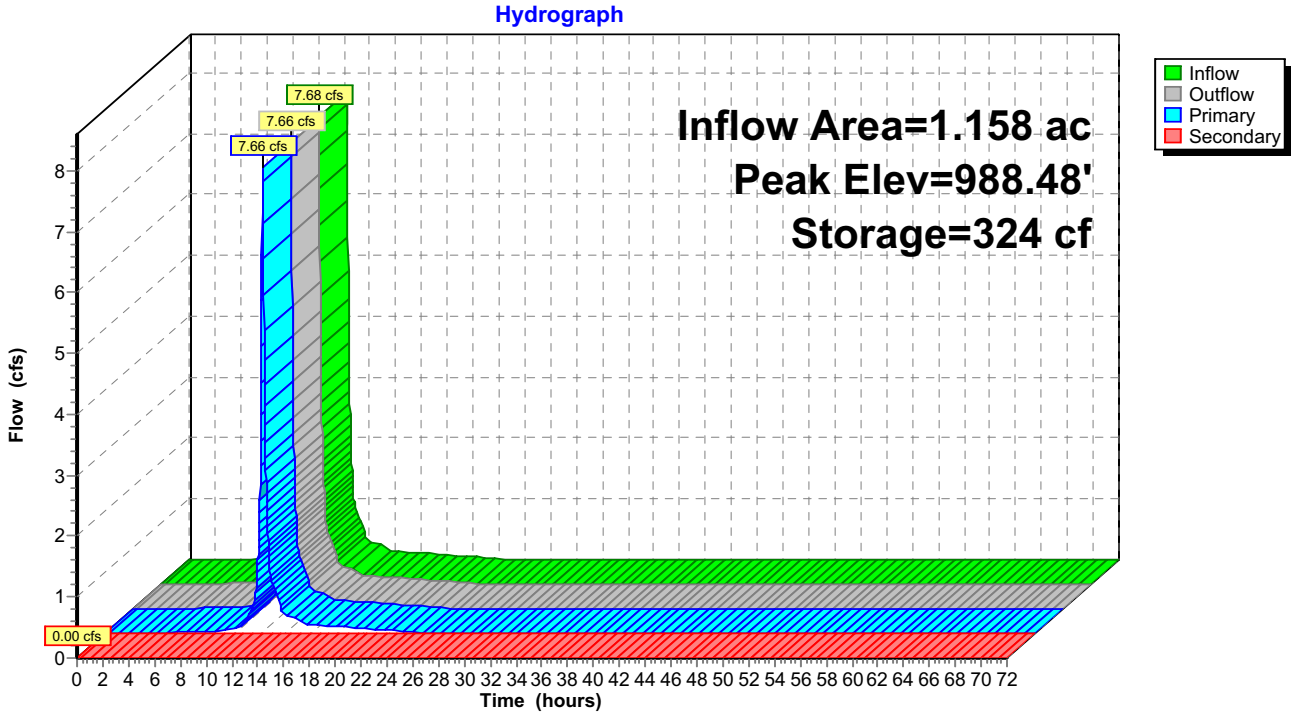
Pond CB_L10: CB_L10



Summary for Pond CB_L4: CB_L4

Inflow Area = 0.167 ac, 20.96% Impervious, Inflow Depth = 4.86" for 100yr-24hr event
Inflow = 1.11 cfs @ 12.20 hrs, Volume= 0.068 af
Outflow = 1.11 cfs @ 12.20 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.3 min
Primary = 1.11 cfs @ 12.20 hrs, Volume= 0.068 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.13' @ 12.20 hrs Surf.Area= 235 sf Storage= 19 cf

Plug-Flow detention time= 0.3 min calculated for 0.068 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (786.9 - 786.6)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	1,325 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
978.50	750	200	200
980.00	750	1,125	1,325

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	978.50'	**10.0' 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=1.11 cfs @ 12.20 hrs HW=978.13' TW=970.45' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 1.11 cfs @ 1.19 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=967.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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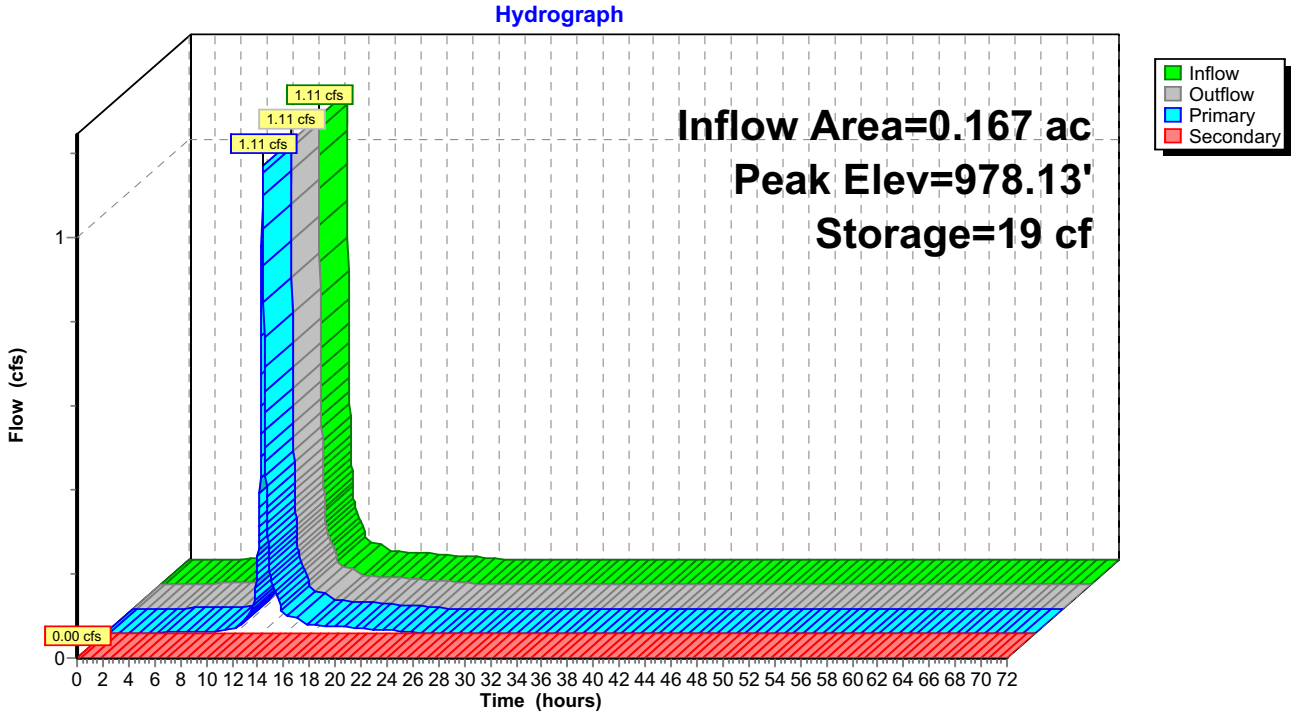
Pond CB_L4: CB_L4



Summary for Pond CB_L5: CB_L5

Inflow Area = 0.763 ac, 22.02% Impervious, Inflow Depth = 7.41" for 100yr-24hr event
Inflow = 7.27 cfs @ 12.21 hrs, Volume= 0.471 af
Outflow = 7.25 cfs @ 12.22 hrs, Volume= 0.471 af, Atten= 0%, Lag= 0.5 min
Primary = 7.25 cfs @ 12.22 hrs, Volume= 0.471 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 977.96' @ 12.22 hrs Surf.Area= 669 sf Storage= 166 cf

Plug-Flow detention time= 0.3 min calculated for 0.471 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (790.4 - 790.1)

Volume	Invert	Avail.Storage	Storage Description
#1	977.50'	6,613 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
977.50	50	0	0
978.00	720	193	193
980.00	5,700	6,420	6,613

Device	Routing	Invert	Outlet Devices
#1	Primary	977.50'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.90'	**5.0' 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=7.25 cfs @ 12.22 hrs HW=977.96' TW=970.58' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 7.25 cfs @ 2.22 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=977.50' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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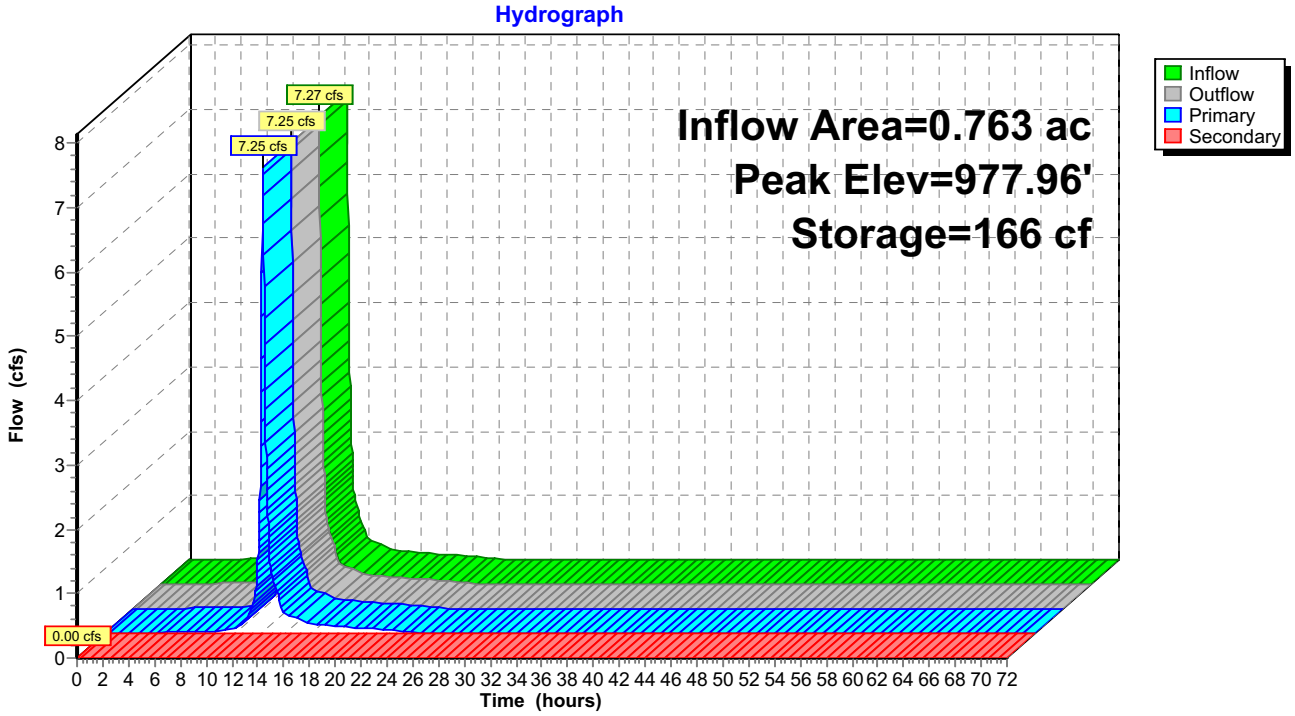
Pond CB_L5: CB_L5



Summary for Pond CB_L6: CB_L6

Inflow Area = 1.091 ac, 19.98% Impervious, Inflow Depth = 4.87" for 100yr-24hr event
Inflow = 7.30 cfs @ 12.20 hrs, Volume= 0.443 af
Outflow = 6.44 cfs @ 12.25 hrs, Volume= 0.443 af, Atten= 12%, Lag= 3.2 min
Primary = 4.13 cfs @ 12.25 hrs, Volume= 0.286 af
Secondary = 2.31 cfs @ 12.25 hrs, Volume= 0.157 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.32' @ 12.25 hrs Surf.Area= 2,210 sf Storage= 2,142 cf

Plug-Flow detention time= 12.1 min calculated for 0.443 af (100% of inflow)
Center-of-Mass det. time= 12.2 min (799.3 - 787.1)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	13,500 cf	**Custom Stage Data (Prismatic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	100	0	0
980.00	13,400	13,500	13,500

Device	Routing	Invert	Outlet Devices
#1	Secondary	978.00'	**5.0' 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
#2	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.12 cfs @ 12.25 hrs HW=978.32' TW=970.81' (Dynamic Tailwater)
↑—**2=Grate** (Weir Controls 4.12 cfs @ 1.84 fps)

Secondary OutFlow Max=2.30 cfs @ 12.25 hrs HW=978.32' TW=977.95' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 2.30 cfs @ 1.45 fps)

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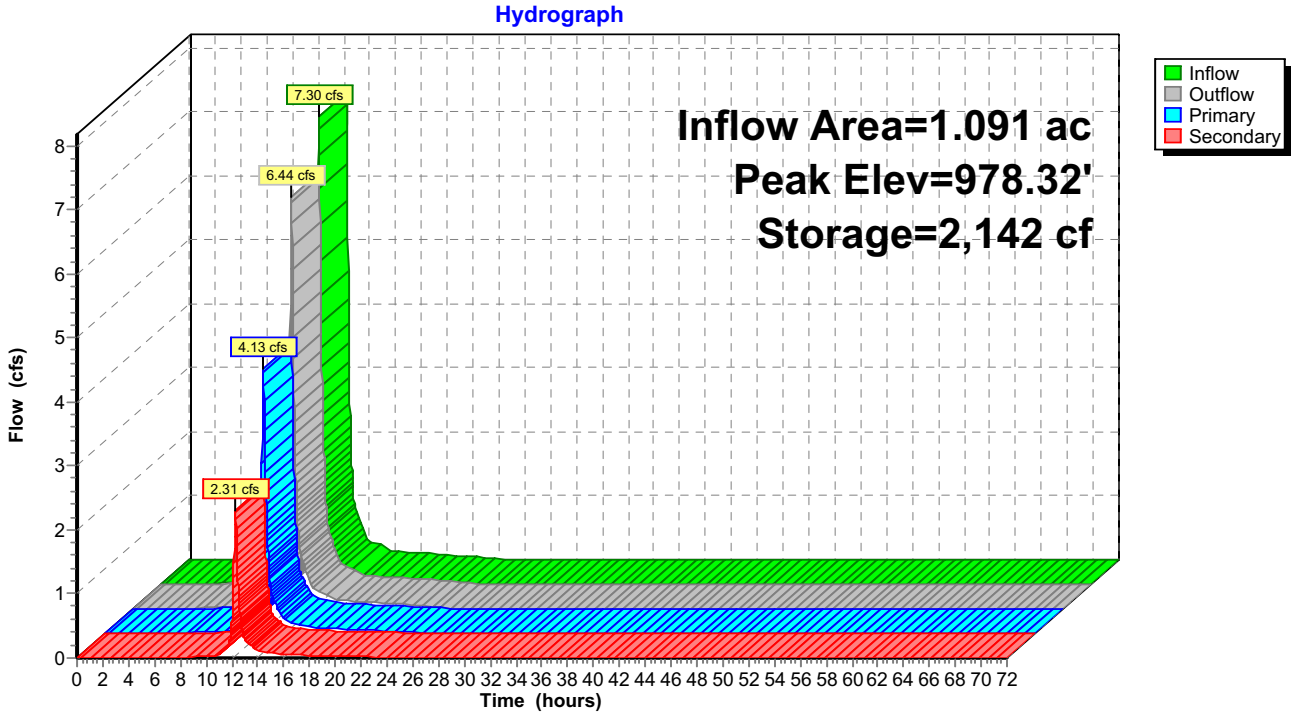
Pond CB_L6: CB_L6



Summary for Pond CB_L7: CB_L7

Inflow Area = 0.759 ac, 21.21% Impervious, Inflow Depth = 4.91" for 100yr-24hr event
Inflow = 5.10 cfs @ 12.20 hrs, Volume= 0.310 af
Outflow = 5.09 cfs @ 12.20 hrs, Volume= 0.310 af, Atten= 0%, Lag= 0.4 min
Primary = 5.09 cfs @ 12.20 hrs, Volume= 0.310 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 979.36' @ 12.20 hrs Surf.Area= 535 sf Storage= 107 cf

Plug-Flow detention time= 0.3 min calculated for 0.310 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (786.5 - 786.2)

Volume	Invert	Avail.Storage	Storage Description
#1	979.00'	715 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
979.00	50	0	0
980.00	1,380	715	715

Device	Routing	Invert	Outlet Devices
#1	Primary	979.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.90'	**3.0' 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=5.07 cfs @ 12.20 hrs HW=979.36' TW=970.46' (Dynamic Tailwater)
↑—**1=Orifice/Grate** (Weir Controls 5.07 cfs @ 1.97 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=979.00' TW=978.00' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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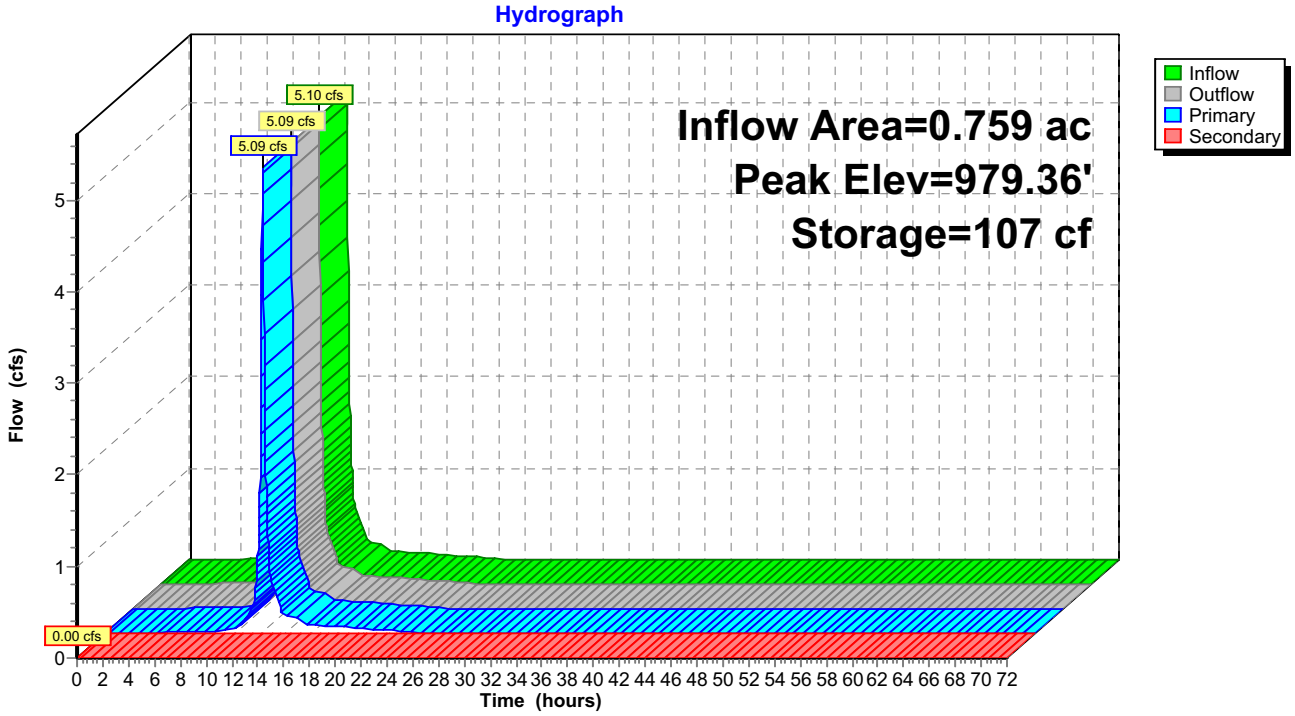
Pond CB_L7: CB_L7



Summary for Pond CB_L8: CB_L8

Inflow Area = 1.441 ac, 22.07% Impervious, Inflow Depth = 4.73" for 100yr-24hr event
Inflow = 9.25 cfs @ 12.20 hrs, Volume= 0.568 af
Outflow = 8.87 cfs @ 12.23 hrs, Volume= 0.568 af, Atten= 4%, Lag= 1.8 min
Primary = 8.87 cfs @ 12.23 hrs, Volume= 0.568 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 980.53' @ 12.23 hrs Surf.Area= 3,046 sf Storage= 817 cf

Plug-Flow detention time= 1.0 min calculated for 0.567 af (100% of inflow)
Center-of-Mass det. time= 1.0 min (786.6 - 785.6)

Volume	Invert	Avail.Storage	Storage Description
#1	980.00'	11,450 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

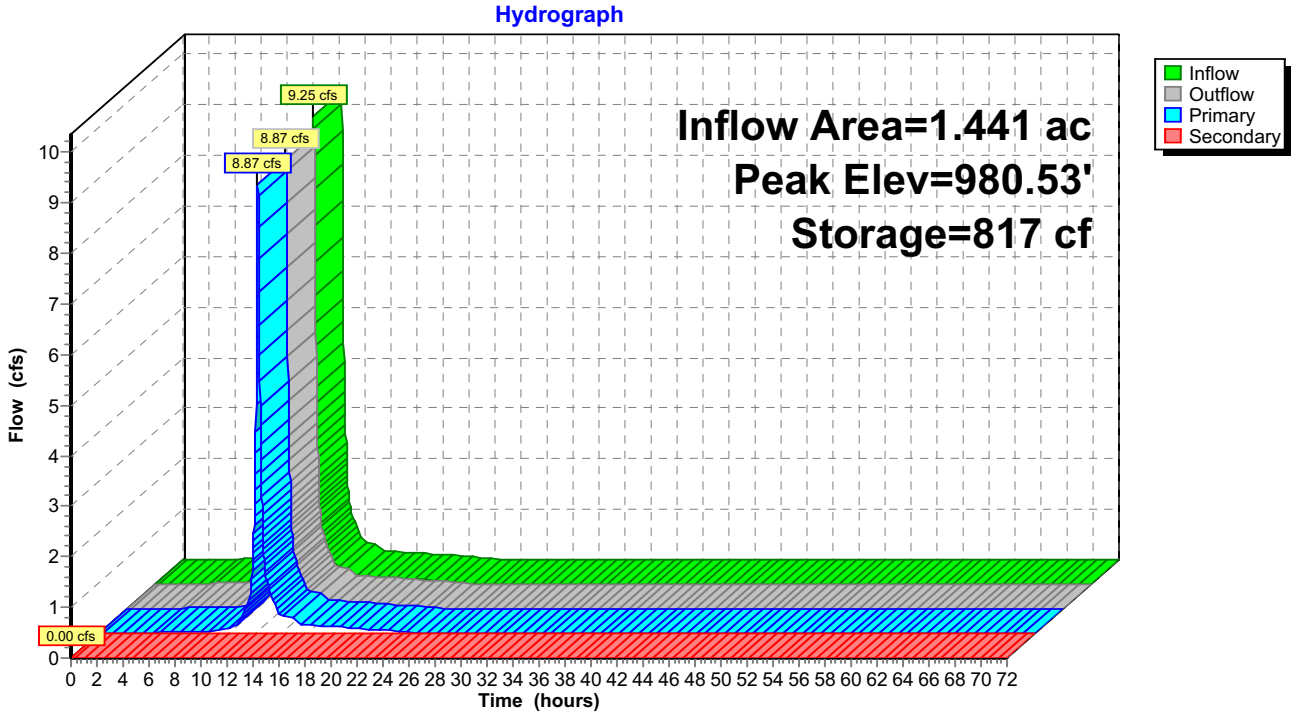
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
980.00	50	0	0
982.00	11,400	11,450	11,450

Device	Routing	Invert	Outlet Devices
#1	Primary	980.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	981.90'	**5.0' 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=8.84 cfs @ 12.23 hrs HW=980.53' TW=970.64' (Dynamic Tailwater)
↳**1=Grate** (Weir Controls 8.84 cfs @ 2.37 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=980.00' TW=979.00' (Dynamic Tailwater)
↳**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond CB_L8: CB_L8



Summary for Pond CB_L9: CB_L9

Inflow Area = 0.971 ac, 21.11% Impervious, Inflow Depth = 4.89" for 100yr-24hr event
Inflow = 6.51 cfs @ 12.20 hrs, Volume= 0.396 af
Outflow = 6.46 cfs @ 12.21 hrs, Volume= 0.396 af, Atten= 1%, Lag= 0.8 min
Primary = 6.46 cfs @ 12.21 hrs, Volume= 0.396 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 982.43' @ 12.21 hrs Surf.Area= 1,052 sf Storage= 246 cf

Plug-Flow detention time= 1.0 min calculated for 0.396 af (100% of inflow)
Center-of-Mass det. time= 0.6 min (786.8 - 786.3)

Volume	Invert	Avail.Storage	Storage Description
#1	982.00'	7,815 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
982.00	100	0	0
983.50	3,440	2,655	2,655
985.00	3,440	5,160	7,815

Device	Routing	Invert	Outlet Devices
#1	Primary	982.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	983.50'	**3.0' 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=6.43 cfs @ 12.21 hrs HW=982.43' TW=970.51' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 6.43 cfs @ 2.13 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=982.00' TW=980.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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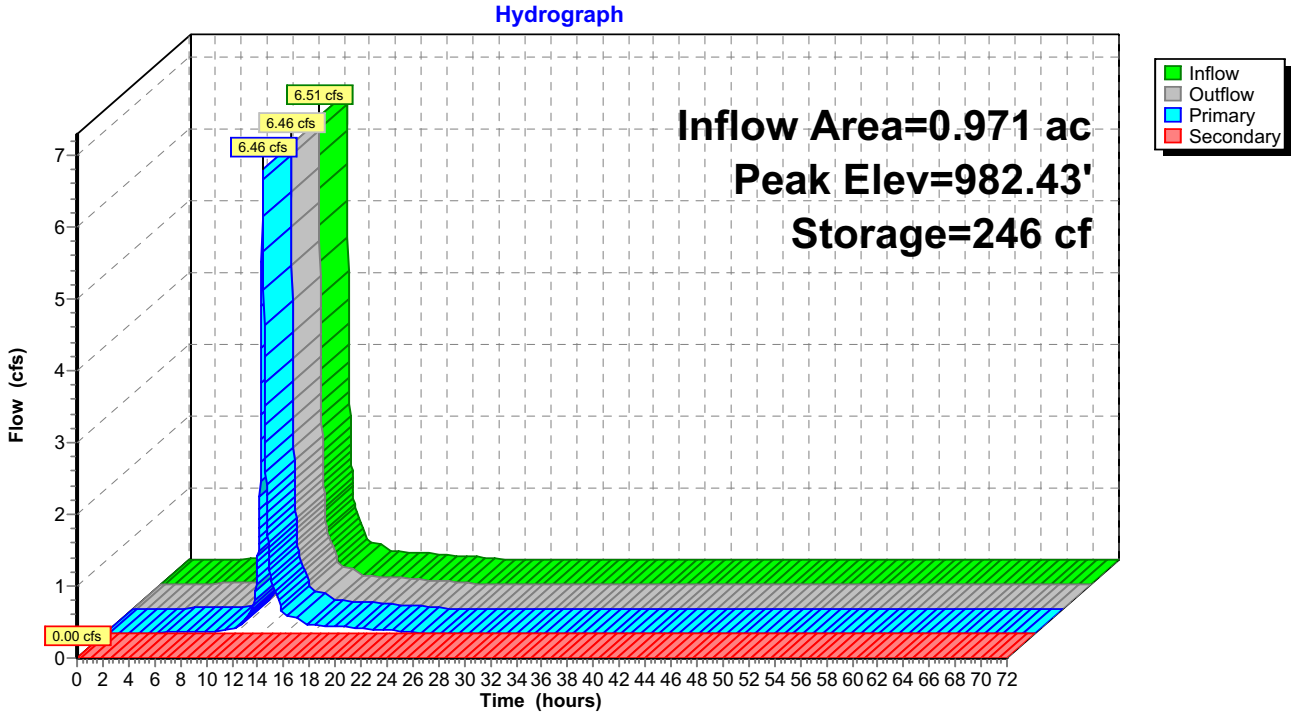
Pond CB_L9: CB_L9



Summary for Pond CB_O10: CB_O10

Inflow Area = 0.609 ac, 15.44% Impervious, Inflow Depth = 4.75" for 100yr-24hr event
Inflow = 4.01 cfs @ 12.20 hrs, Volume= 0.241 af
Outflow = 3.98 cfs @ 12.21 hrs, Volume= 0.241 af, Atten= 1%, Lag= 0.7 min
Primary = 3.98 cfs @ 12.21 hrs, Volume= 0.241 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.31' @ 12.21 hrs Surf.Area= 853 sf Storage= 140 cf

Plug-Flow detention time= 0.5 min calculated for 0.241 af (100% of inflow)
Center-of-Mass det. time= 0.5 min (791.0 - 790.6)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	25,530 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
980.00	5,240	5,290	5,290
982.00	15,000	20,240	25,530

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	980.00'	**5.0' 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=3.96 cfs @ 12.21 hrs HW=978.31' TW=970.51' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 3.96 cfs @ 1.82 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=978.00' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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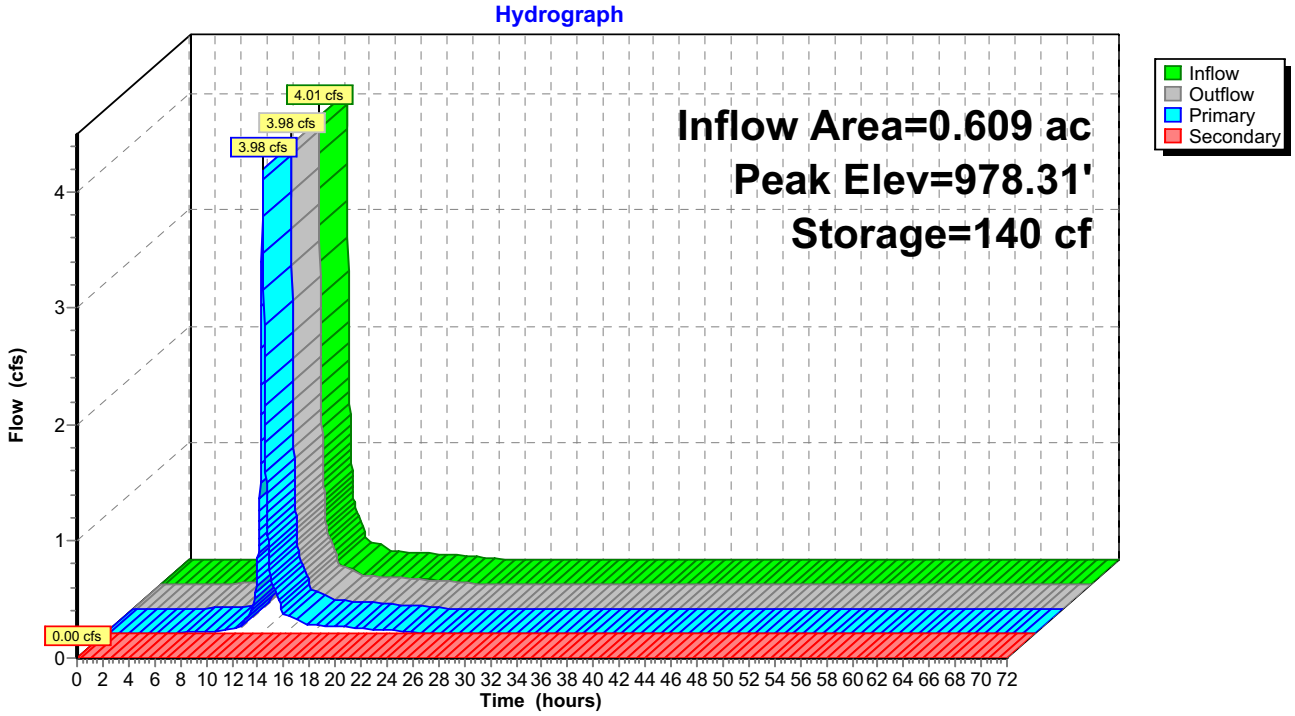
Pond CB_O10: CB_O10



Summary for Pond CB_O8: CB_O8

Inflow Area = 0.490 ac, 12.24% Impervious, Inflow Depth = 4.66" for 100yr-24hr event
Inflow = 3.19 cfs @ 12.20 hrs, Volume= 0.190 af
Outflow = 3.18 cfs @ 12.20 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.2 min
Primary = 3.18 cfs @ 12.20 hrs, Volume= 0.190 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 975.77' @ 12.20 hrs Surf.Area= 237 sf Storage= 38 cf

Plug-Flow detention time= 0.2 min calculated for 0.190 af (100% of inflow)
Center-of-Mass det. time= 0.2 min (793.3 - 793.1)

Volume	Invert	Avail.Storage	Storage Description
#1	975.50'	913 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
975.50	50	0	0
976.00	400	113	113
978.00	400	800	913

Device	Routing	Invert	Outlet Devices
#1	Primary	975.50'	**27.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	976.00'	**4.0' 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=3.18 cfs @ 12.20 hrs HW=975.77' TW=970.44' (Dynamic Tailwater)
└**1=Orifice/Grate** (Weir Controls 3.18 cfs @ 1.69 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=975.50' TW=967.50' (Dynamic Tailwater)
└**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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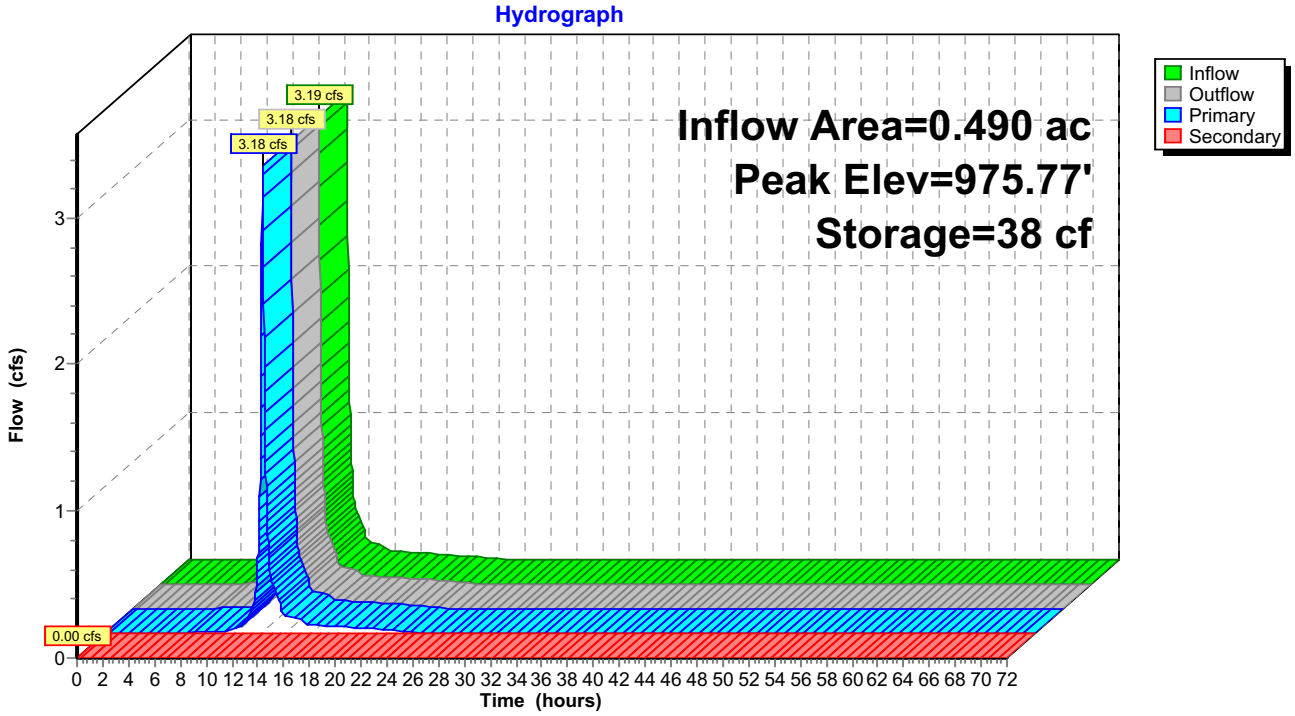
Pond CB_O8: CB_O8



Summary for Pond CB_O9: CB_O9

Inflow Area = 1.143 ac, 19.86% Impervious, Inflow Depth = 4.87" for 100yr-24hr event
Inflow = 7.65 cfs @ 12.20 hrs, Volume= 0.464 af
Outflow = 7.62 cfs @ 12.21 hrs, Volume= 0.464 af, Atten= 0%, Lag= 0.5 min
Primary = 7.62 cfs @ 12.21 hrs, Volume= 0.464 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Peak Elev= 978.48' @ 12.21 hrs Surf.Area= 742 sf Storage= 189 cf

Plug-Flow detention time= 0.3 min calculated for 0.464 af (100% of inflow)
Center-of-Mass det. time= 0.3 min (787.5 - 787.2)

Volume	Invert	Avail.Storage	Storage Description
#1	978.00'	2,275 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
978.00	50	0	0
979.00	1,500	775	775
980.00	1,500	1,500	2,275

Device	Routing	Invert	Outlet Devices
#1	Primary	978.00'	**27.0" Horiz. Grate** C= 0.600 Limited to weir flow at low heads
#2	Secondary	979.00'	**3.0' 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=7.59 cfs @ 12.21 hrs HW=978.48' TW=970.48' (Dynamic Tailwater)
↑—**1=Grate** (Weir Controls 7.59 cfs @ 2.26 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=975.50' (Dynamic Tailwater)
↑—**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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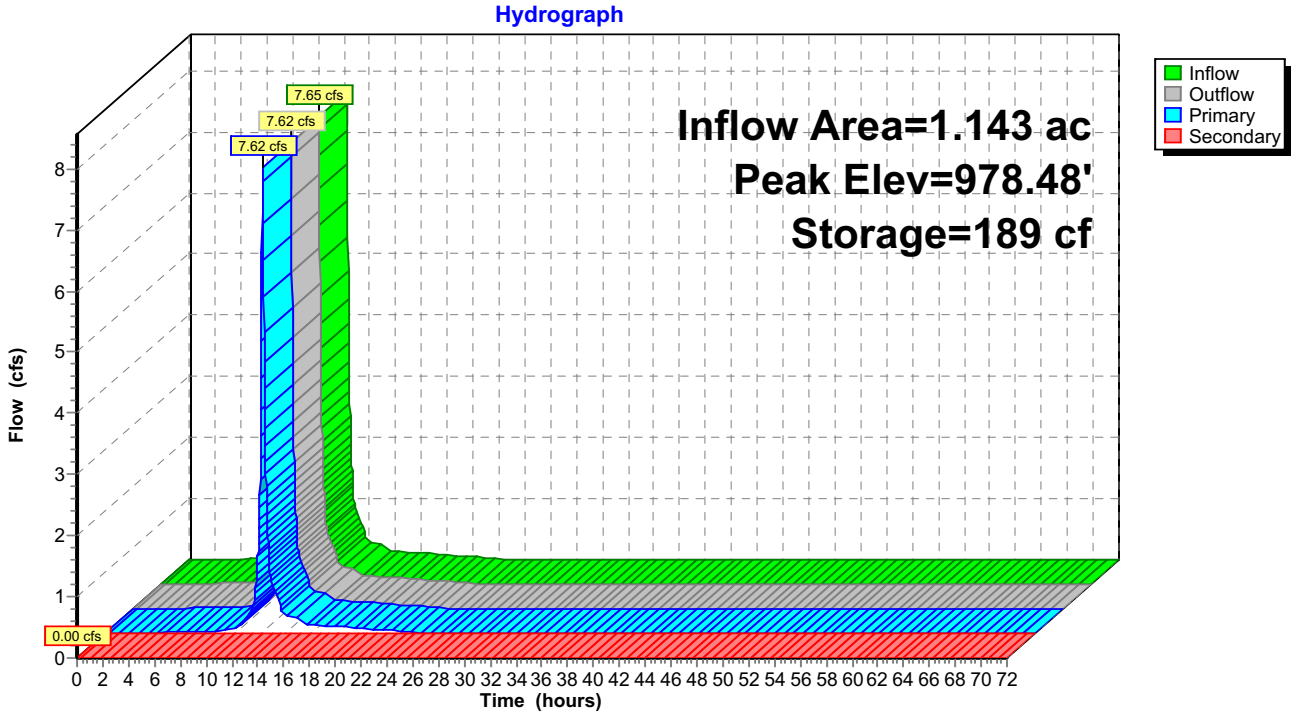
Pond CB_O9: CB_O9



Summary for Pond P1N: Pond 1N

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=1)

Inflow Area = 5.394 ac, 29.66% Impervious, Inflow Depth = 5.14" for 100yr-24hr event
Inflow = 36.95 cfs @ 12.20 hrs, Volume= 2.310 af
Outflow = 3.97 cfs @ 13.33 hrs, Volume= 1.806 af, Atten= 89%, Lag= 67.8 min
Primary = 3.97 cfs @ 13.33 hrs, Volume= 1.806 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.50' Surf.Area= 41,136 sf Storage= 169,437 cf
Peak Elev= 1,010.79' @ 12.98 hrs Surf.Area= 61,048 sf Storage= 234,435 cf (64,998 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 223.9 min (1,004.4 - 780.5)

Volume	Invert	Avail.Storage	Storage Description
#1	1,000.00'	391,973 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

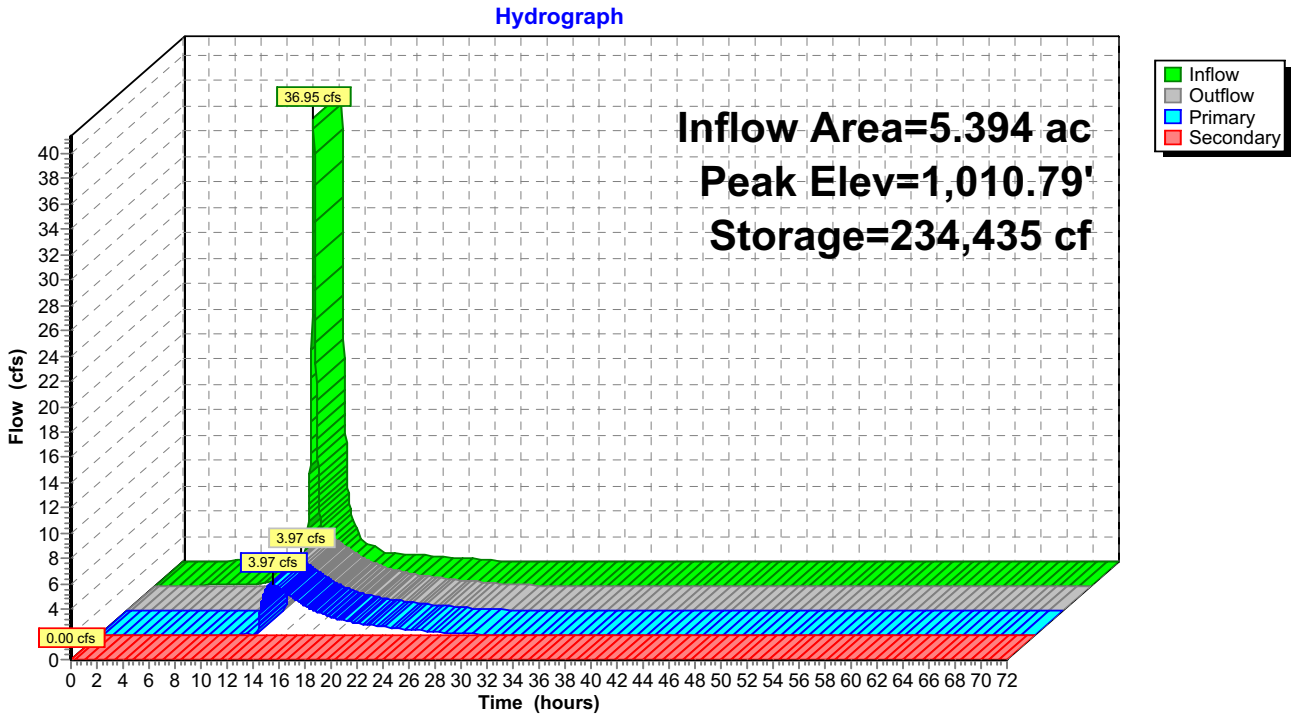
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,000.00	6,656	0	0
1,002.00	10,300	16,956	16,956
1,004.00	14,547	24,847	41,803
1,006.00	19,203	33,750	75,553
1,008.00	25,045	44,248	119,801
1,010.00	46,500	71,545	191,346
1,010.50	57,752	26,063	217,409
1,012.00	75,000	99,564	316,973
1,013.00	75,000	75,000	391,973

Device	Routing	Invert	Outlet Devices
#1	Primary	1,009.50'	**15.0" Round Main outlet (Structure 248 to 249)** L= 43.3' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 1,009.50' / 1,009.10' S= 0.0092 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf
#2	Device 1	1,010.80'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,007.00'	**15.0" Round low flow pipe** L= 30.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 1,006.50' / 1,007.00' S= -0.0163 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf
#4	Secondary	1,012.00'	**10.0' long x 2.0' breadth EOF** 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=3.98 cfs @ 13.33 hrs HW=1,010.77' TW=1,010.29' (Dynamic Tailwater)
└─**1=Main outlet (Structure 248 to 249)**(Outlet Controls 3.98 cfs @ 3.95 fps)
  └─**2=Orifice/Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Passes 3.98 cfs of 4.09 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,009.50' TW=1,009.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

Pond P1N: Pond 1N



Summary for Pond P1S: Pond 1S

Inflow Area = 94.180 ac, 33.41% Impervious, Inflow Depth > 4.97" for 100yr-24hr event
Inflow = 180.38 cfs @ 12.22 hrs, Volume= 39.043 af
Outflow = 37.16 cfs @ 13.49 hrs, Volume= 38.724 af, Atten= 79%, Lag= 76.4 min
Primary = 37.16 cfs @ 13.49 hrs, Volume= 38.724 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 967.00' Surf.Area= 72,066 sf Storage= 246,162 cf
Peak Elev= 970.72' @ 13.49 hrs Surf.Area= 119,994 sf Storage= 610,921 cf (364,759 cf above start)

Plug-Flow detention time= 423.9 min calculated for 33.063 af (85% of inflow)
Center-of-Mass det. time= 159.8 min (1,300.7 - 1,140.8)

Volume	Invert	Avail.Storage	Storage Description
#1	960.00'	1,047,368 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

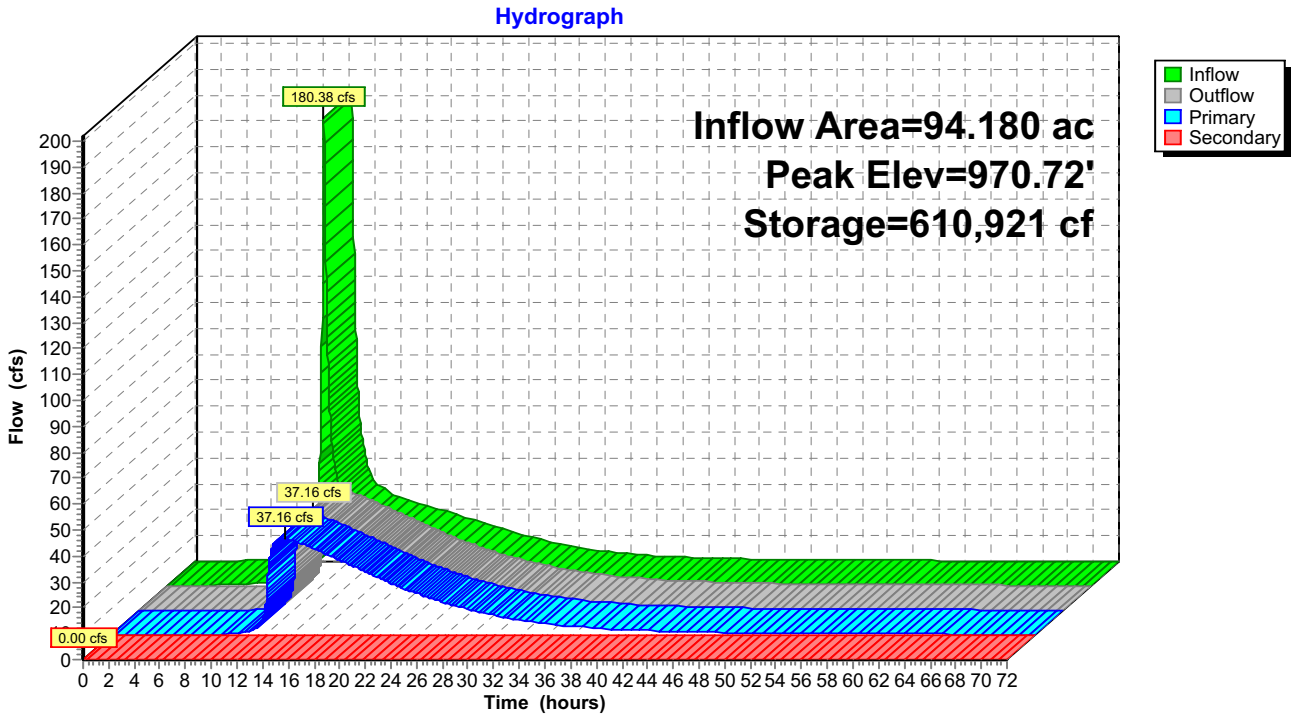
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
960.00	9,454	0	0
962.00	22,413	31,867	31,867
964.00	37,168	59,581	91,448
966.00	54,342	91,510	182,958
968.00	89,790	144,132	327,090
970.00	110,794	200,584	527,674
972.00	136,300	247,094	774,768
974.00	136,300	272,600	1,047,368

Device	Routing	Invert	Outlet Devices
#1	Primary	967.00'	**30.0" Round Main outlet (Structure 294 to 295)** L= 35.4' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 967.00' / 966.50' S= 0.0141 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 4.91 sf
#2	Device 1	971.00'	**48.0" Horiz. Structure 294 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	967.00'	**30.0" Round low flow pipe** L= 21.6' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 966.00' / 967.00' S= -0.0463 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 4.91 sf
#4	Secondary	971.00'	**10.0' long x 4.0' breadth EOF** 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 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=37.16 cfs @ 13.49 hrs HW=970.72' TW=0.00' (Dynamic Tailwater)
└─**1=Main outlet (Structure 294 to 295)**(Passes 37.16 cfs of 41.82 cfs potential flow)
  ├─**2=Structure 294 Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Inlet Controls 37.16 cfs @ 7.57 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=967.00' TW=0.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

Pond P1S: Pond 1S



Summary for Pond P2S: Pond 2S

Inflow Area = 19.486 ac, 39.59% Impervious, Inflow Depth = 5.40" for 100yr-24hr event
Inflow = 62.16 cfs @ 12.20 hrs, Volume= 8.763 af
Outflow = 25.74 cfs @ 12.60 hrs, Volume= 8.748 af, Atten= 59%, Lag= 23.8 min
Primary = 25.74 cfs @ 12.60 hrs, Volume= 8.748 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 969.00' Surf.Area= 18,607 sf Storage= 77,154 cf
Peak Elev= 971.90' @ 12.60 hrs Surf.Area= 26,446 sf Storage= 144,315 cf (67,161 cf above start)

Plug-Flow detention time= 204.3 min calculated for 6.975 af (80% of inflow)
Center-of-Mass det. time= 56.5 min (929.3 - 872.8)

Volume	Invert	Avail.Storage	Storage Description
#1	962.00'	200,412 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

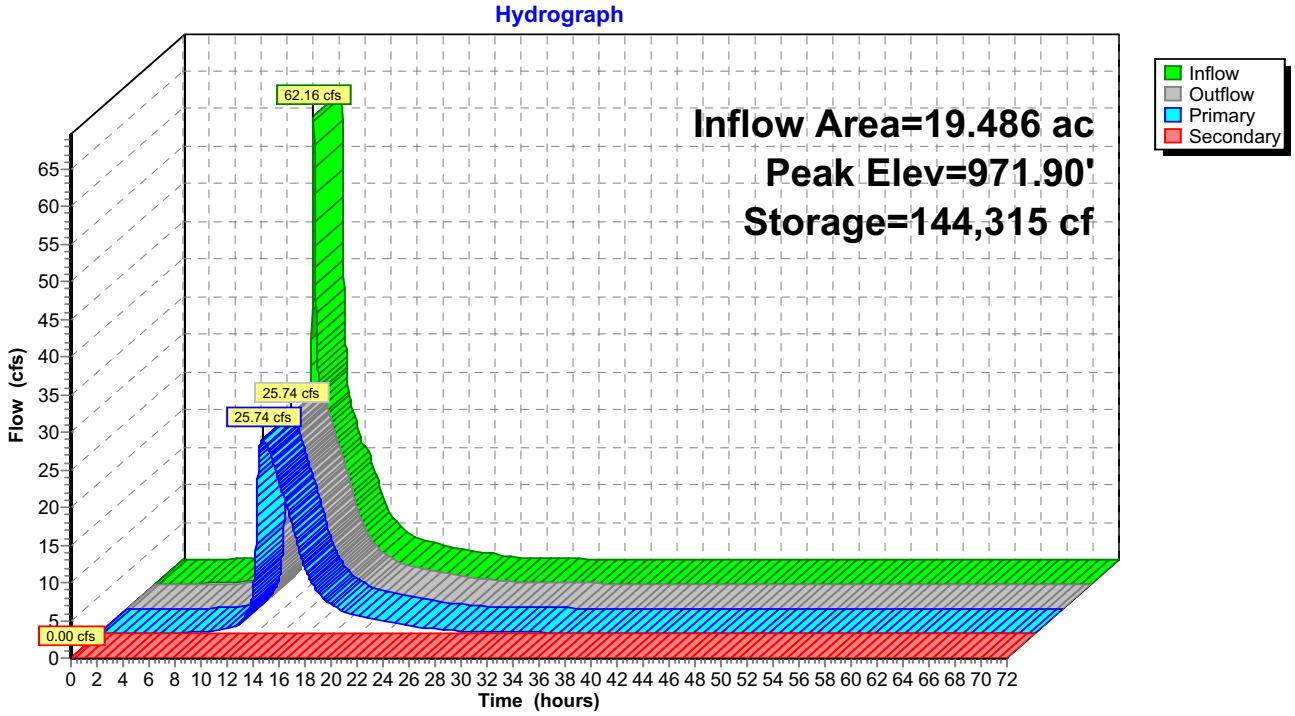
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
962.00	6,074	0	0
964.00	8,571	14,645	14,645
966.00	11,401	19,972	34,617
968.00	14,555	25,956	60,573
970.00	22,658	37,213	97,786
972.00	26,656	49,314	147,100
974.00	26,656	53,312	200,412

Device	Routing	Invert	Outlet Devices
#1	Primary	969.00'	**24.0" Round Main outlet (Structure 251 to 252)** L= 32.8' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.00' / 967.90' S= 0.0335 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Device 1	972.00'	**48.0" Horiz. Structure 251 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	967.00'	**24.0" Round low flow pipe** L= 36.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 966.00' / 967.00' S= -0.0272 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#4	Secondary	972.00'	**8.0' long x 32.0' breadth EOF** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Primary OutFlow Max=25.74 cfs @ 12.60 hrs HW=971.90' TW=0.00' (Dynamic Tailwater)
└─**1=Main outlet (Structure 251 to 252)** (Passes 25.74 cfs of 26.03 cfs potential flow)
  ├─**2=Structure 251 Grate** (Controls 0.00 cfs)
  └─**3=low flow pipe** (Inlet Controls 25.74 cfs @ 8.19 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=969.00' TW=0.00' (Dynamic Tailwater)
└─**4=EOF** (Controls 0.00 cfs)

Pond P2S: Pond 2S



Summary for Pond P3S: Pond 3S

Inflow Area = 12.637 ac, 40.00% Impervious, Inflow Depth = 5.43" for 100yr-24hr event
Inflow = 90.84 cfs @ 12.20 hrs, Volume= 5.714 af
Outflow = 15.93 cfs @ 12.64 hrs, Volume= 5.684 af, Atten= 82%, Lag= 26.4 min
Primary = 15.93 cfs @ 12.64 hrs, Volume= 5.684 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 973.00' Surf.Area= 32,176 sf Storage= 137,120 cf
Peak Elev= 976.11' @ 12.64 hrs Surf.Area= 46,595 sf Storage= 261,057 cf (123,938 cf above start)

Plug-Flow detention time= 434.4 min calculated for 2.536 af (44% of inflow)
Center-of-Mass det. time= 152.2 min (926.0 - 773.8)

Volume	Invert	Avail.Storage	Storage Description
#1	966.00'	766,406 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
966.00	10,224	0	0
968.00	15,259	25,483	25,483
970.00	20,470	35,729	61,212
972.00	26,233	46,703	107,915
974.00	38,119	64,352	172,267
976.00	45,500	83,619	255,886
978.00	65,000	110,500	366,386
980.00	103,996	168,996	535,382
982.00	127,028	231,024	766,406

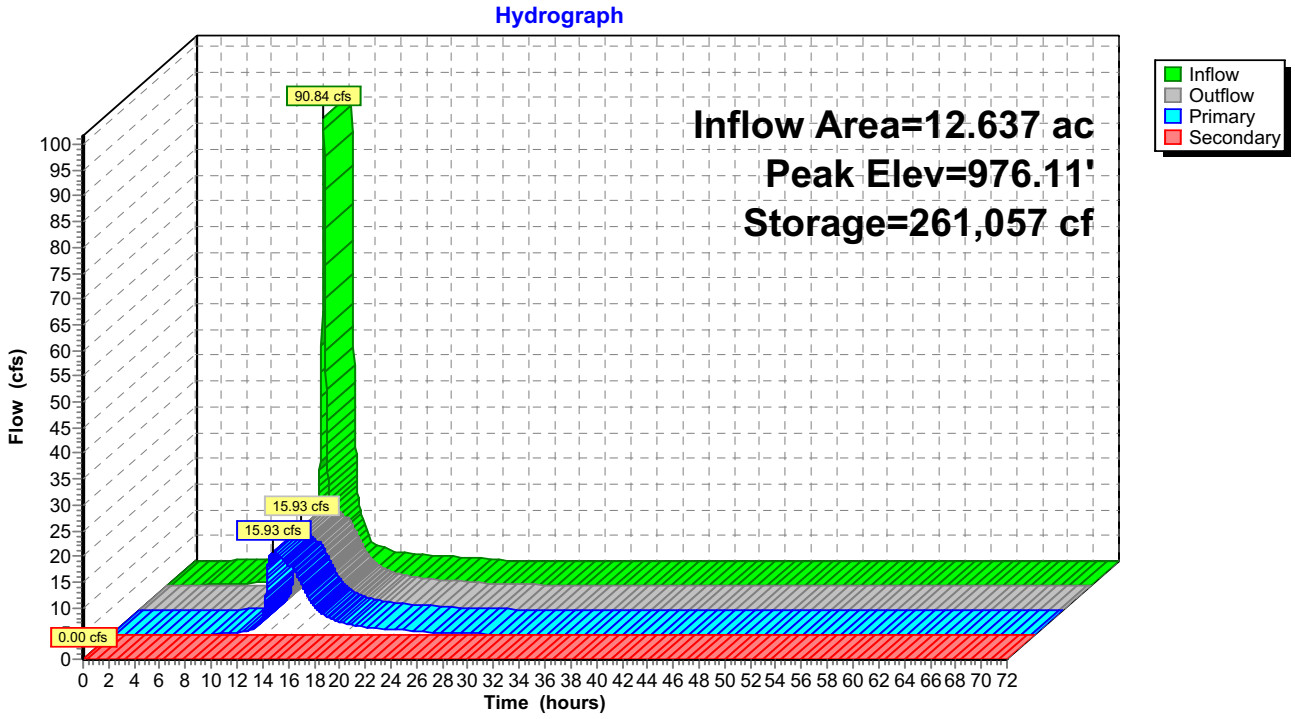
Device	Routing	Invert	Outlet Devices
#1	Primary	970.00'	**21.0" Round Main outlet (Structure I10 to I9)** L= 108.4' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.00' / 969.50' S= 0.0046 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#2	Device 1	970.50'	**21.0" Round Structure I11 to I10** L= 26.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.50' / 970.00' S= 0.0189 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#3	Device 2	972.00'	**21.0" Round Structure I12 to I11** L= 30.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 972.00' / 971.50' S= 0.0164 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#4	Device 3	973.00'	**21.0" Round Structure I13 to I12** L= 152.2' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 973.00' / 972.00' S= 0.0066 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#5	Device 4	976.10'	**48.0" Horiz. I13 Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 4	970.00'	**21.0" Round low flow pipe** L= 35.6' RCP, end-section conforming to fill, Ke= 0.500

			Inlet / Outlet Invert= 968.00' / 970.00' S= -0.0562 '/' Cc= 0.900
			n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#7	Secondary	978.00'	**5.0' long x 2.0' breadth EOF**
			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=15.93 cfs @ 12.64 hrs HW=976.11' TW=973.66' (Dynamic Tailwater)
- **1=Main outlet (Structure I10 to I9)** (Passes 15.93 cfs of 18.01 cfs potential flow)
  - **2=Structure I11 to I10** (Passes 15.93 cfs of 22.66 cfs potential flow)
    - **3=Structure I12 to I11** (Passes 15.93 cfs of 22.66 cfs potential flow)
      - **4=Structure I13 to I12** (Barrel Controls 15.93 cfs @ 6.62 fps)
        - **5=I13 Grate** (Passes < 0.06 cfs potential flow)
        - **6=low flow pipe** (Passes < 18.12 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=973.00' TW=972.00' (Dynamic Tailwater)
- **7=EOF** (Controls 0.00 cfs)

Pond P3S: Pond 3S



Summary for Pond P4S: Pond 4S

Inflow Area = 75.911 ac, 31.08% Impervious, Inflow Depth > 4.92" for 100yr-24hr event
Inflow = 156.12 cfs @ 12.21 hrs, Volume= 31.150 af
Outflow = 67.95 cfs @ 12.33 hrs, Volume= 31.069 af, Atten= 56%, Lag= 7.5 min
Primary = 67.95 cfs @ 12.33 hrs, Volume= 31.069 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 967.50' Surf.Area= 22,564 sf Storage= 74,427 cf
Peak Elev= 971.32' @ 12.50 hrs Surf.Area= 52,019 sf Storage= 209,359 cf (134,931 cf above start)

Plug-Flow detention time= 186.5 min calculated for 29.361 af (94% of inflow)
Center-of-Mass det. time= 59.0 min (1,235.3 - 1,176.2)

Volume	Invert	Avail.Storage	Storage Description
#1	960.00'	730,861 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
960.00	2,404	0	0
962.00	4,393	6,797	6,797
964.00	9,311	13,704	20,501
966.00	15,824	25,135	45,636
968.00	24,811	40,635	86,271
970.00	38,395	63,206	149,477
972.00	58,966	97,361	246,838
974.00	118,288	177,254	424,092
976.00	188,481	306,769	730,861

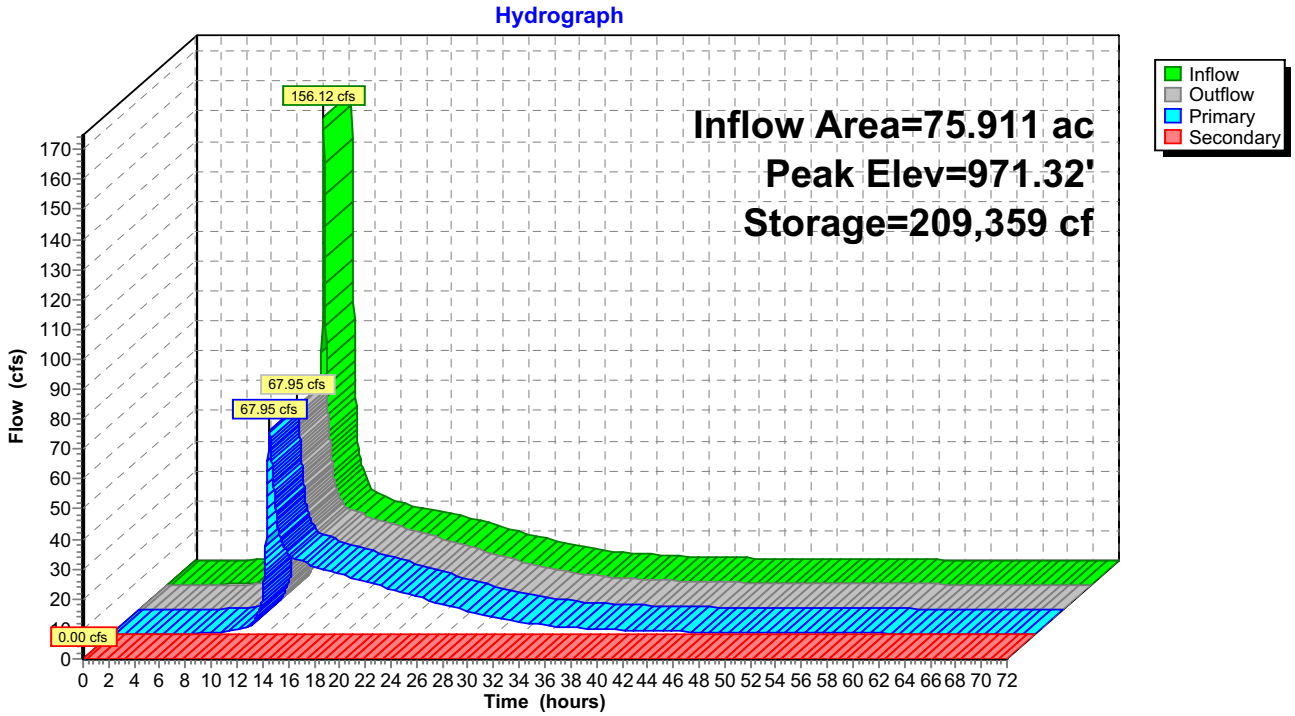
Device	Routing	Invert	Outlet Devices
#1	Primary	967.50'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 258.6' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 967.50' / 967.00' S= 0.0019 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 11.40 sf
#2	Device 1	971.70'	**60.0" Horiz. Structure 254 Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	964.00'	**58.5" W x 36.0" H, R=30.0"/84.0" Pipe Arch RCP_Arch 59x36** L= 30.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 963.00' / 964.00' S= -0.0333 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 11.40 sf
#4	Secondary	969.00'	**36.0" Round Secondary outlet (Structure 184 to 185)** L= 147.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.00' / 967.00' S= 0.0136 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#5	Device 4	969.50'	**36.0" Round Structure 187 to 184** L= 24.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 969.50' / 969.00' S= 0.0204 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#6	Device 5	970.50'	**36.0" Round Structure 186 to 187**

			L= 64.7' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 970.50' / 969.50' S= 0.0155 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 7.07 sf
#7	Device 6	971.70'	**10.0' long x 4.0' breadth Berm to Secondary EOF** 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 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=66.36 cfs @ 12.33 hrs HW=971.16' TW=969.70' (Dynamic Tailwater)
- **1=RCP_Arch 59x36** (Passes 66.36 cfs of 68.19 cfs potential flow)
  - **2=Structure 254 Grate** (Controls 0.00 cfs)
  - **3=RCP_Arch 59x36** (Inlet Controls 66.36 cfs @ 5.82 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=967.50' TW=967.00' (Dynamic Tailwater)
- **4=Secondary outlet (Structure 184 to 185)**(Controls 0.00 cfs)
  - **5=Structure 187 to 184** (Controls 0.00 cfs)
    - **6=Structure 186 to 187** (Controls 0.00 cfs)
      - **7=Berm to Secondary EOF** (Controls 0.00 cfs)

Pond P4S: Pond 4S



Summary for Pond P5S: Pond 5S

Inflow Area = 53.598 ac, 33.43% Impervious, Inflow Depth = 5.08" for 100yr-24hr event
Inflow = 359.49 cfs @ 12.20 hrs, Volume= 22.685 af
Outflow = 17.41 cfs @ 13.67 hrs, Volume= 22.136 af, Atten= 95%, Lag= 88.0 min
Primary = 17.41 cfs @ 13.67 hrs, Volume= 22.136 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 978.00' Surf.Area= 162,000 sf Storage= 888,000 cf
Peak Elev= 981.43' @ 13.67 hrs Surf.Area= 228,268 sf Storage= 1,567,031 cf (679,031 cf above start)

Plug-Flow detention time= 2,238.2 min calculated for 1.750 af (8% of inflow)
Center-of-Mass det. time= 557.6 min (1,335.6 - 778.1)

Volume	Invert	Avail.Storage	Storage Description
#1	970.00'	3,604,800 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
970.00	70,000	0	0
972.00	89,000	159,000	159,000
974.00	109,000	198,000	357,000
976.00	130,000	239,000	596,000
978.00	162,000	292,000	888,000
980.00	206,400	368,400	1,256,400
982.00	237,000	443,400	1,699,800
984.00	237,000	474,000	2,173,800
990.00	240,000	1,431,000	3,604,800

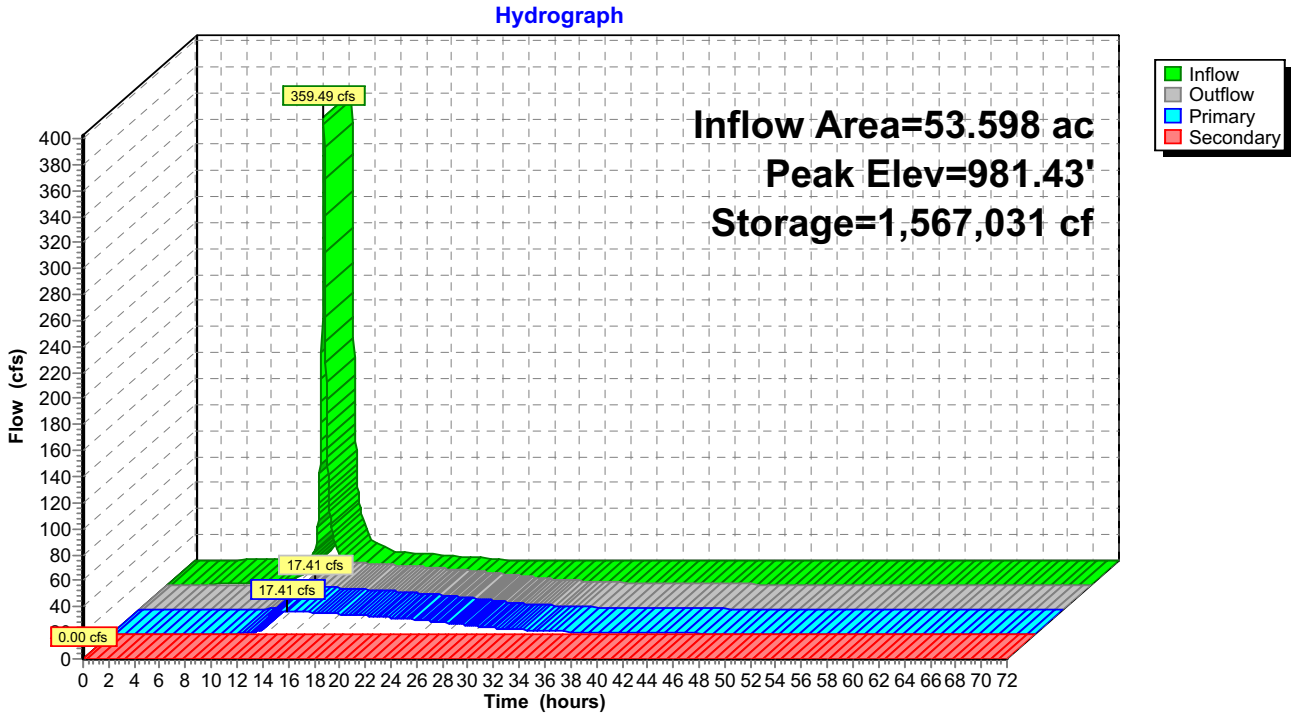
Device	Routing	Invert	Outlet Devices
#1	Primary	970.00'	**18.0" Round Structure 273 to 246** L= 192.5' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 970.00' / 968.50' S= 0.0078 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#2	Device 1	972.00'	**18.0" Round Structure 272 to 273** L= 70.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 972.00' / 970.00' S= 0.0286 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#3	Device 2	974.00'	**18.0" Round Structure 271 to 272** L= 50.0' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 974.00' / 973.00' S= 0.0200 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#4	Device 3	978.00'	**18.0" Round Structure 245 to 271** L= 108.6' RCP, groove end w/headwall, Ke= 0.200 Inlet / Outlet Invert= 978.00' / 974.00' S= 0.0368 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf
#5	Device 4	975.50'	**21.0" Round low flow pipe** L= 29.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 975.00' / 975.50' S= -0.0172 '/' Cc= 0.900

			n= 0.013 Concrete pipe, bends & connections, Flow Area= 2.41 sf
#6	Device 4	981.50'	**48.0" Horiz. Structure 245 grate** C= 0.600
			Limited to weir flow at low heads
#7	Secondary	981.50'	**10.0' long x 2.0' breadth EOF**
			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=17.41 cfs @ 13.67 hrs HW=981.43' TW=970.97' (Dynamic Tailwater)
- **1=Structure 273 to 246** (Passes 17.41 cfs of 21.11 cfs potential flow)
  - **2=Structure 272 to 273** (Passes 17.41 cfs of 28.37 cfs potential flow)
    - **3=Structure 271 to 272** (Passes 17.41 cfs of 25.67 cfs potential flow)
      - **4=Structure 245 to 271** (Inlet Controls 17.41 cfs @ 9.85 fps)
        - **5=low flow pipe** (Passes 17.41 cfs of 21.45 cfs potential flow)
        - **6=Structure 245 grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=978.00' (Dynamic Tailwater)
- **7=EOF** (Controls 0.00 cfs)

Pond P5S: Pond 5S



Summary for Pond Wetland 9: Wetland 9

[80] Warning: Exceeded Pond P1N by 0.10' @ 12.10 hrs (0.81 cfs 0.022 af)

Inflow Area = 10.217 ac, 25.83% Impervious, Inflow Depth = 4.44" for 100yr-24hr event
Inflow = 20.41 cfs @ 12.25 hrs, Volume= 3.781 af
Outflow = 18.76 cfs @ 12.39 hrs, Volume= 3.480 af, Atten= 8%, Lag= 7.9 min
Primary = 18.76 cfs @ 12.39 hrs, Volume= 3.480 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Starting Elev= 1,009.00' Surf.Area= 9,469 sf Storage= 6,526 cf
Peak Elev= 1,010.51' @ 12.39 hrs Surf.Area= 16,723 sf Storage= 28,076 cf (21,550 cf above start)

Plug-Flow detention time= 110.5 min calculated for 3.330 af (88% of inflow)
Center-of-Mass det. time= 36.5 min (932.7 - 896.2)

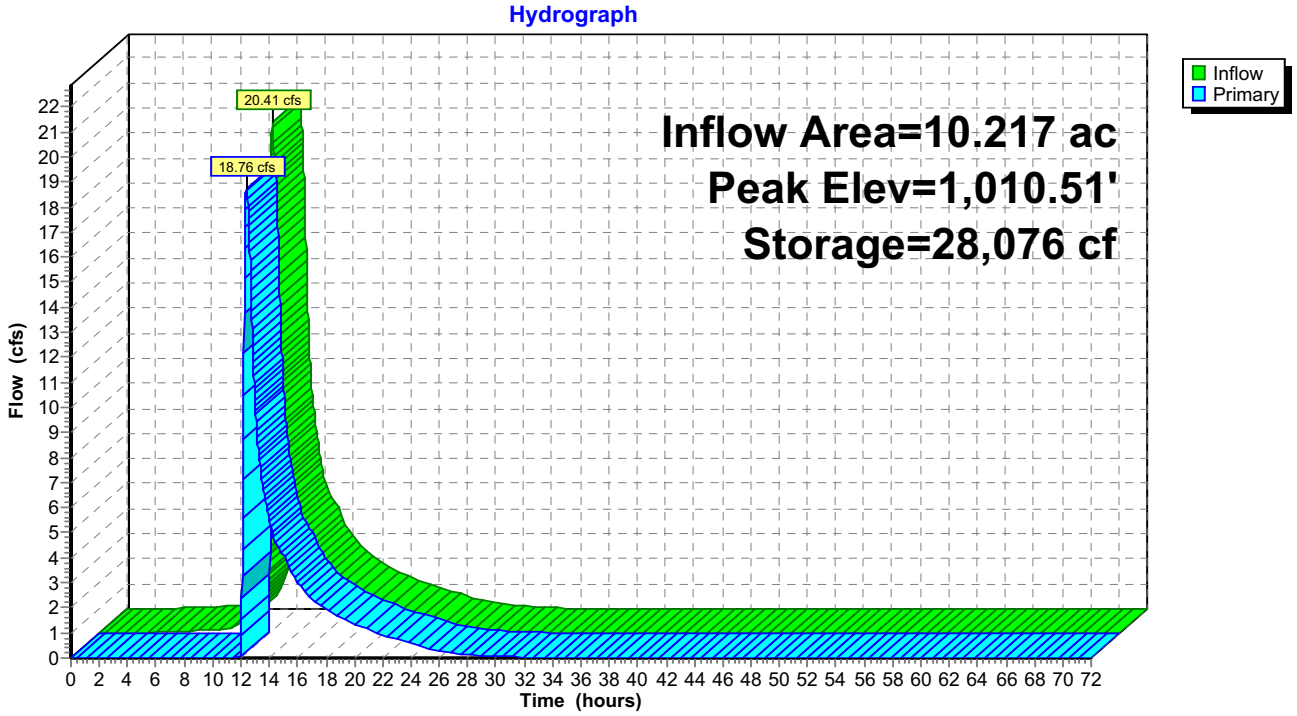
Volume	Invert	Avail.Storage	Storage Description
#1	1,008.00'	53,068 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
1,008.00	3,582	0	0
1,009.00	9,469	6,526	6,526
1,010.00	16,723	13,096	19,622
1,012.00	16,723	33,446	53,068

Device	Routing	Invert	Outlet Devices
#1	Primary	1,010.00'	**20.0' long x 6.0' 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 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Primary OutFlow Max=18.76 cfs @ 12.39 hrs HW=1,010.51' TW=0.00' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 18.76 cfs @ 1.86 fps)

Pond Wetland 9: Wetland 9



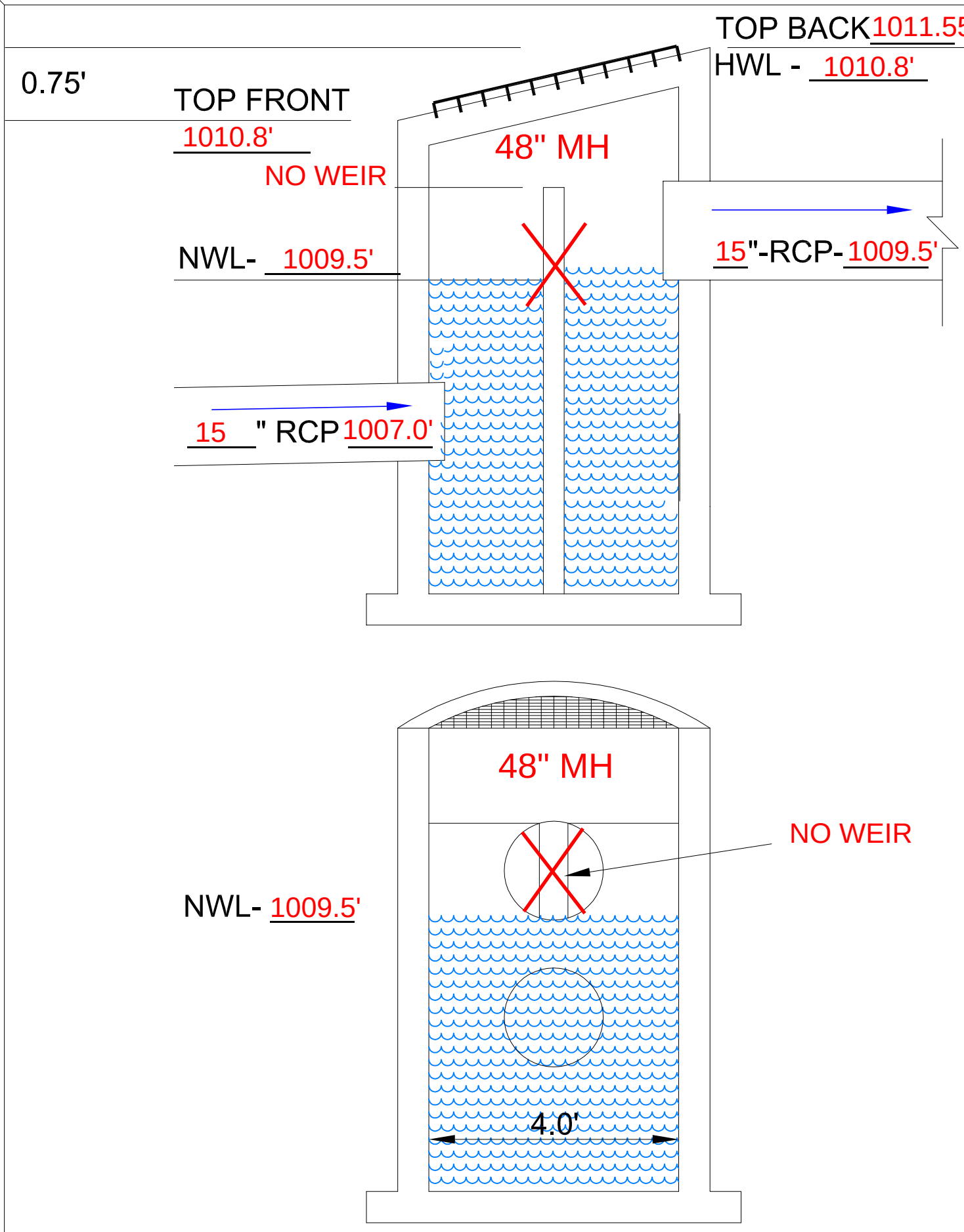
APPENDIX D – RWMWD STORMWATER REUSE SPREADSHEET

RWMWD Stormwater Reuse Credit Calculator
Version 1.0
DRAFT February 2014

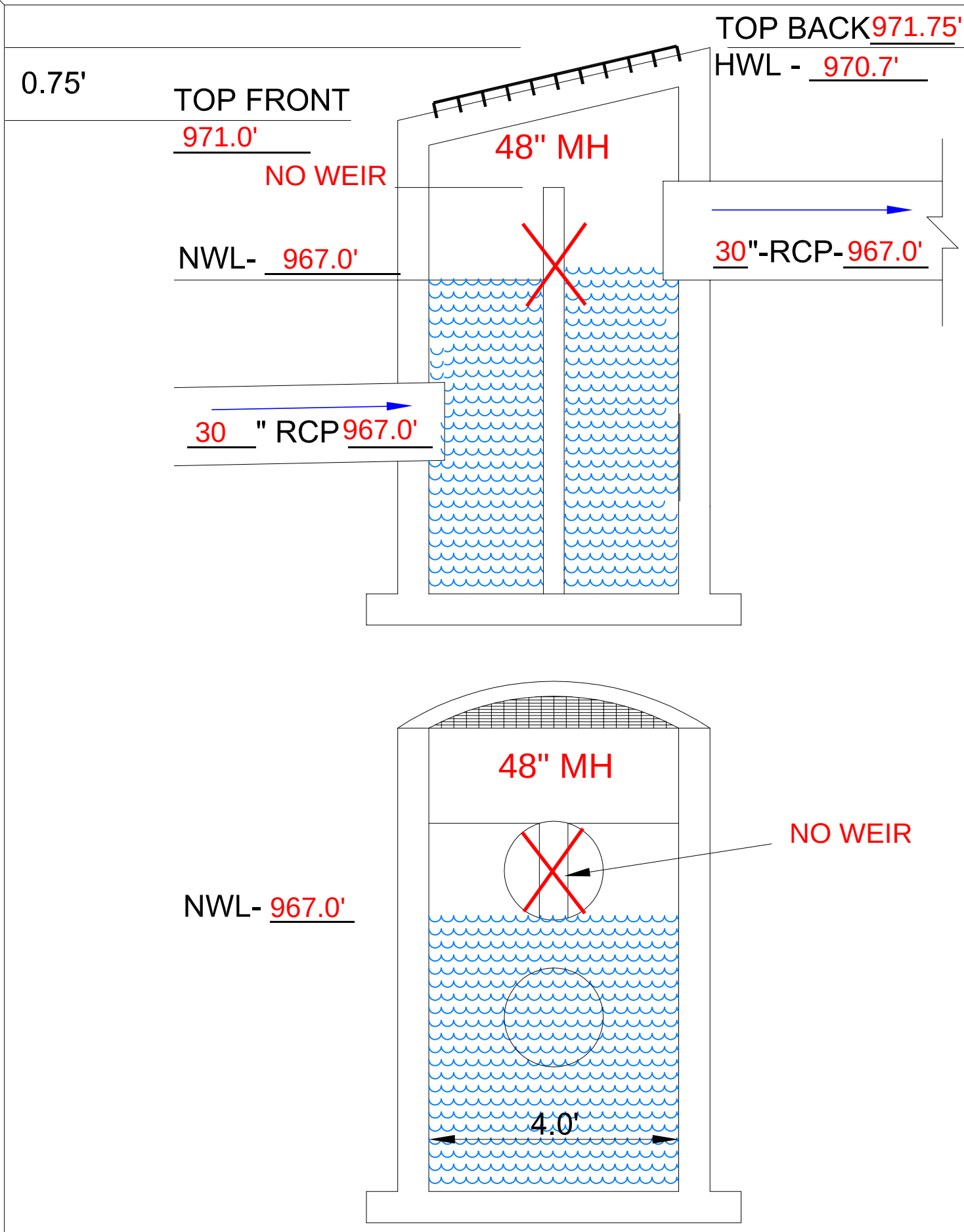
Reuse Scenario Name		Hollydale
Watershed Input Parameters		
Watershed Area Tributary to Stormwater Reuse System	(acre)	53.6
Watershed Imperviousness* Tributary to Stormwater Reuse System *assumed to be directly-connected	(%)	33
Watershed Hydrologic Soil Group (HSG)		C
Stormwater Reuse System Input Parameters		
Estimated Reuse Storage Volume	(ac-ft)	6.700
	(cu-ft)	291852
	(gal)	2,183,205
Irrigation Application Area (ac)	(acre)	15.43
Irrigation Application Rate	(in/week)	1.0
	(ac-ft/day)	0.1837
Irrigation Season Start (month #)		5
Irrigation Season End (month #)		9
Does the system go offline and drain down at the end of the season?	(1=Yes / 0=No)	1
Stormwater Reuse Summary of Results - Stormwater Management		
Average Annual Precipitation	(in/yr)	27.7
Average Annual Watershed Runoff Volume	(ac-ft/yr)	43.44
Average Annual Runoff Coefficient		0.35
Average Annual Runoff Volume Reduction due to Stormwater Reuse for Irrigation	(ac-ft/yr)	17.1
	(%)	39.3
Average Annual Runoff Volume Bypassing the Reuse System (including Winterization Drawdown, if applicable)	(ac-ft/yr)	26.4
	(%)	60.7
Stormwater Reuse Summary of Results - Irrigation Demand		
Average Annual Irrigation Demand	(ac-ft/yr)	20.4
Average Annual Irrigation Demand met by Stormwater Reuse	(ac-ft/yr)	17.1
	(%)	83.7
Average Annual Irrigation Augmentation (from Potable Water Supply)	(ac-ft/yr)	3.3
	(%)	16.3
RWMWD Credit Factor For Stormwater Reuse		
Required Water Quality Volume for Watershed Based on RWMWD Rules (1.1 inch)	(ac-ft)	1.642
Average Annual Volume Reduction for an Infiltration System Sized to Meet the RWMWD Rules (Estimated by MIDS Calculator)	(%)	81.3
Average Annual Runoff Volume Reduction due to Stormwater Reuse for Irrigation	(%)	39.3
RWMWD Credit Factor For Stormwater Reuse		0.48
Reuse Storage Volume Provided	(ac-ft)	6.700
	(gal)	2183205
	(cu-ft)	291852
Reuse Storage Volume that can be applied towards achieving the RWMWD Rules	(ac-ft)	3.233
	(gal)	1,053,585
	(cu-ft)	140844

APPENDIX E – OUTLET STRUCTURE DETAILS

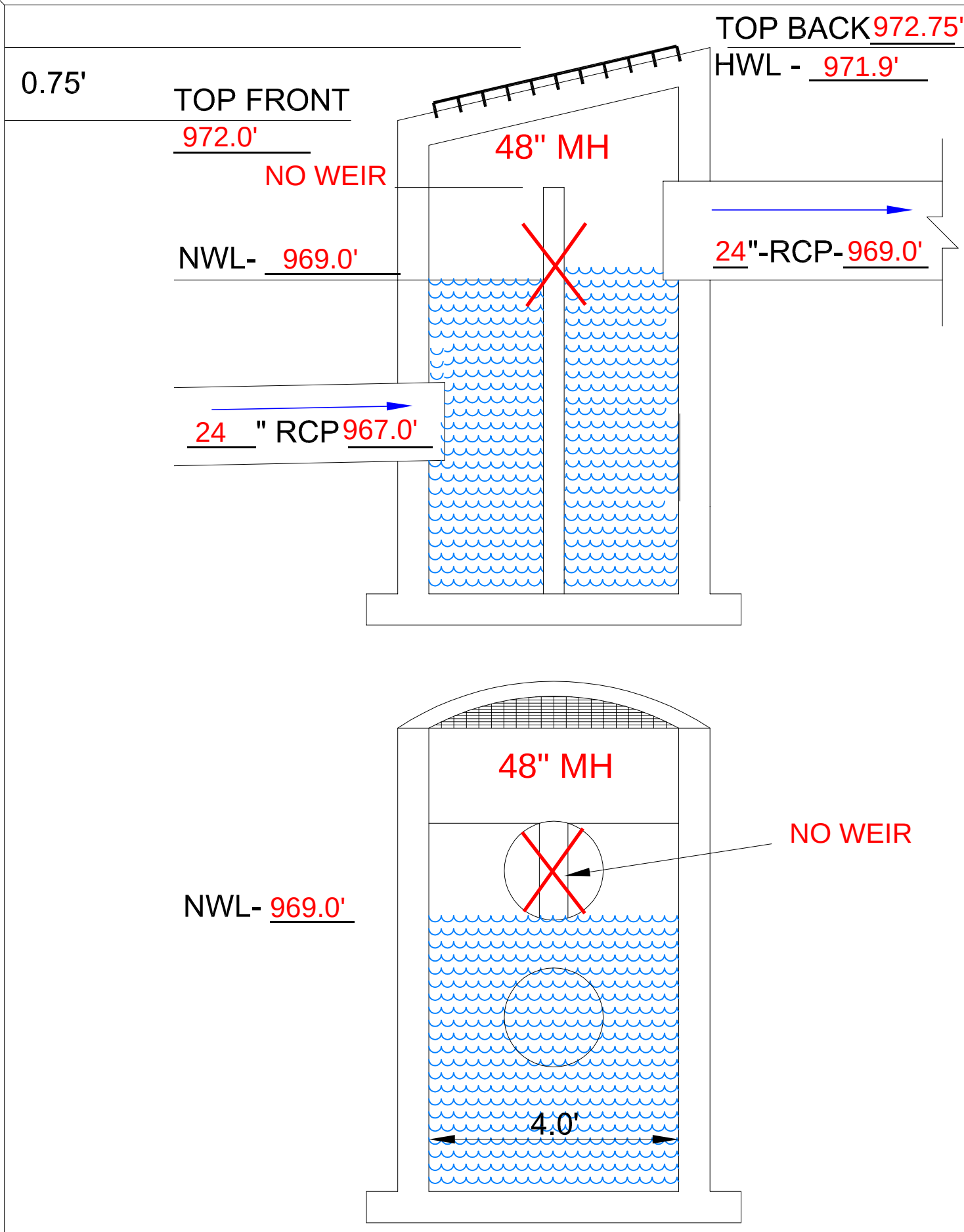
OUTLET STRUCTURE - Pond 1N



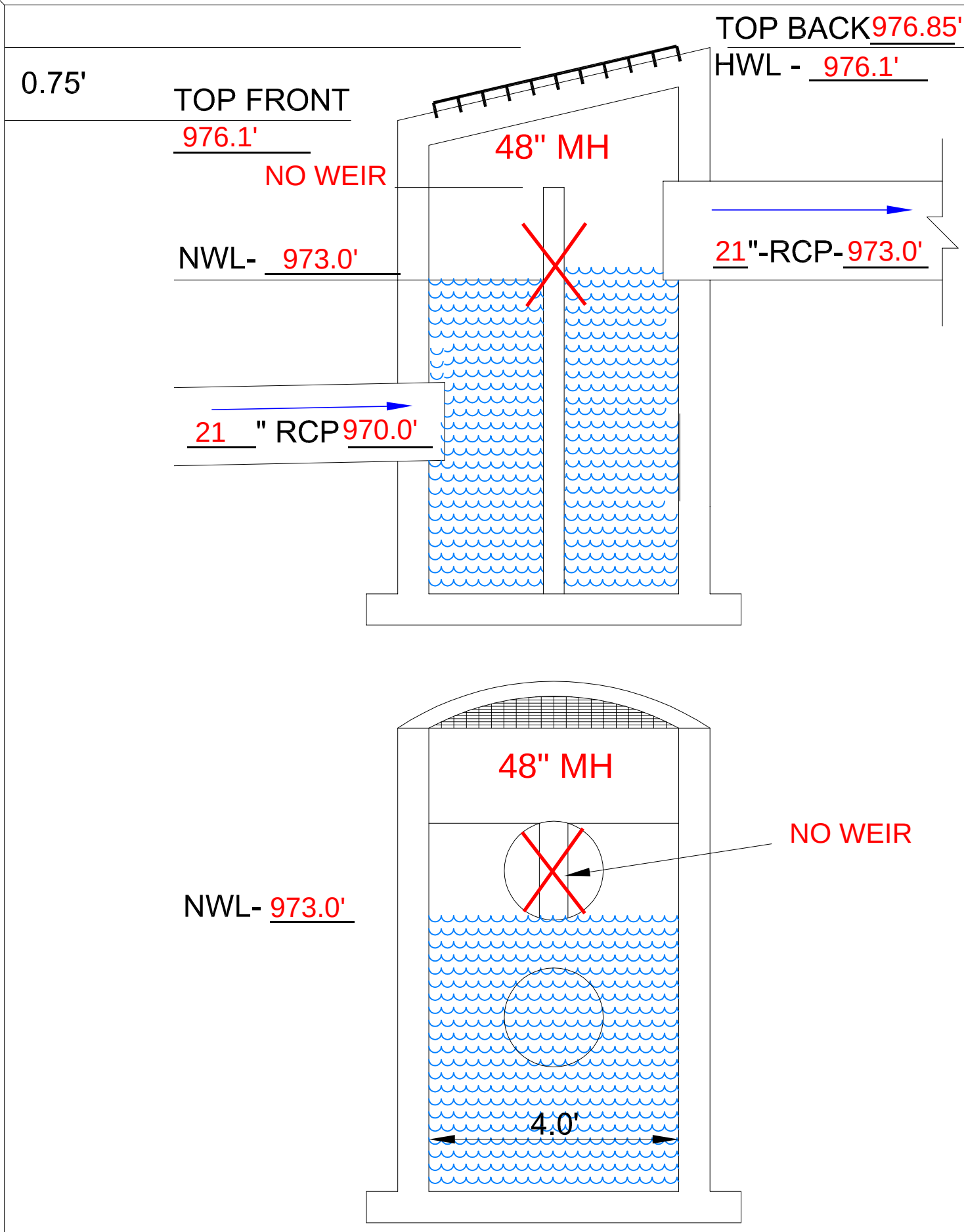
OUTLET STRUCTURE - Pond 1S



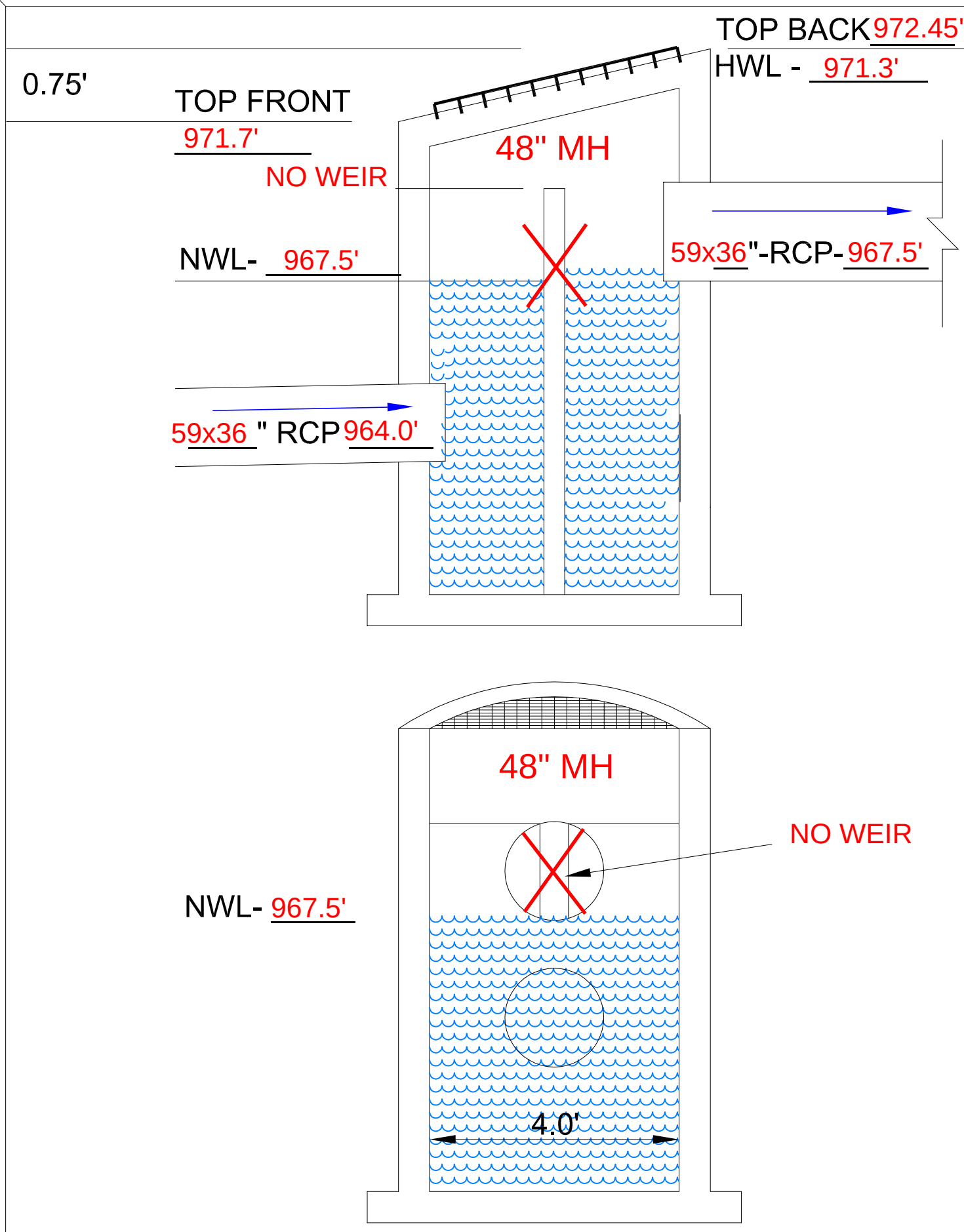
OUTLET STRUCTURE - Pond 2S



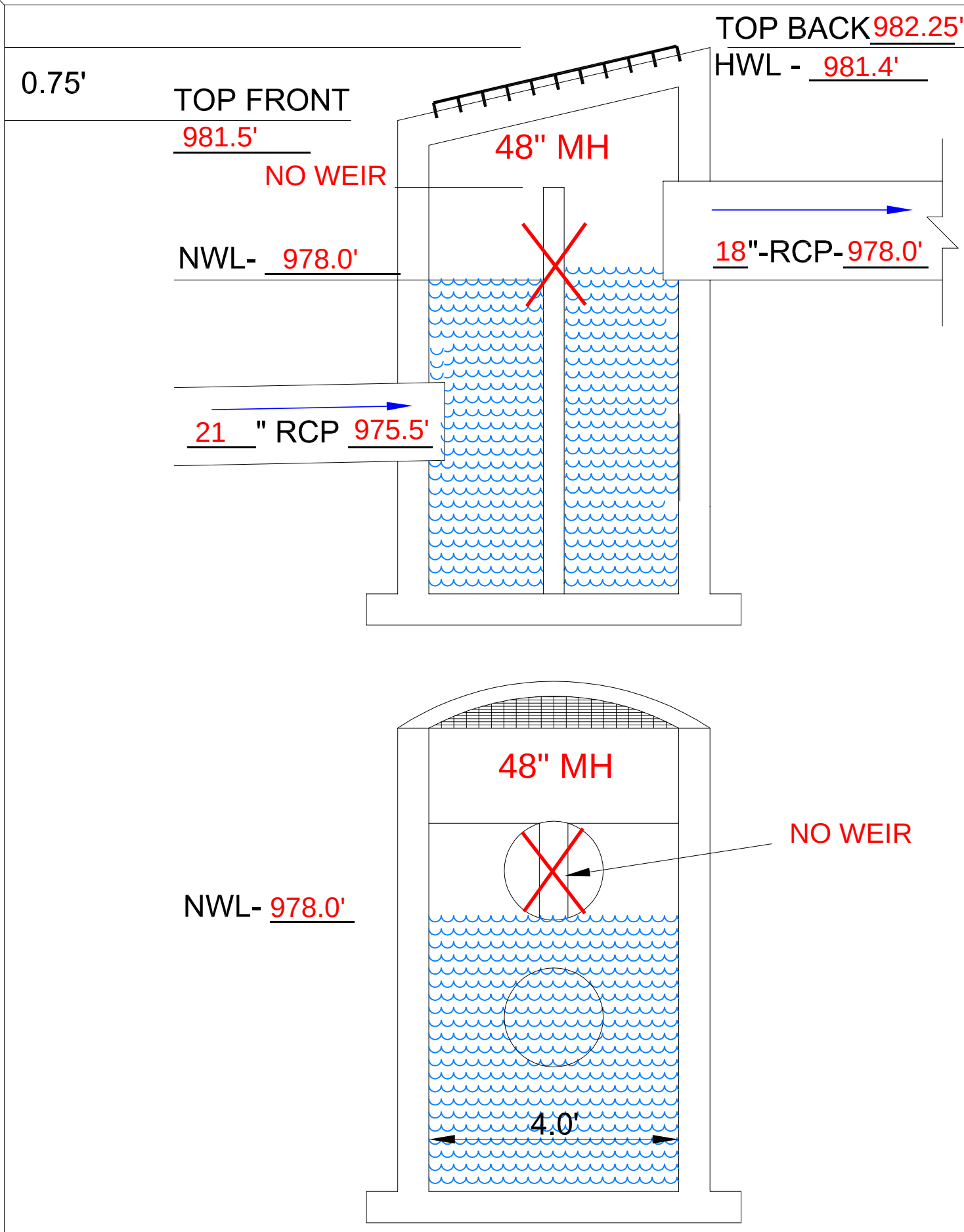
OUTLET STRUCTURE - Pond 3S



OUTLET STRUCTURE - Pond 4S



OUTLET STRUCTURE - Pond 5S



APPENDIX F – HOLLYDALE GOLF COURSE FLOODPLAIN VOLUME ANALYSIS

City of Plymouth

Hollydale Golf Course

Atlas 14 100 Year Inundation Map

Bassett Creek WMC - Atlas 14 100 Year Inundation Levels

1015.8561
1015.8561
981.8411
981.8411
981.8411
999.3419
999.3419
986.6361
986.7682
986.1116
998.3249
969.1777
970.218
968.5031
997.5186
993.9113
983.0429
993.9113
983.0429
993.9113
1003.6132
1003.6132
983.0372
986.2676
993.2354
971.202

Holly
Jewel
CP
47th
46th
45th
Kimberly
Garland
Bunkirk
Comstock
Fountain
Yuma
Weston
48th
44th
Xene
Zane
Zeston

Legend

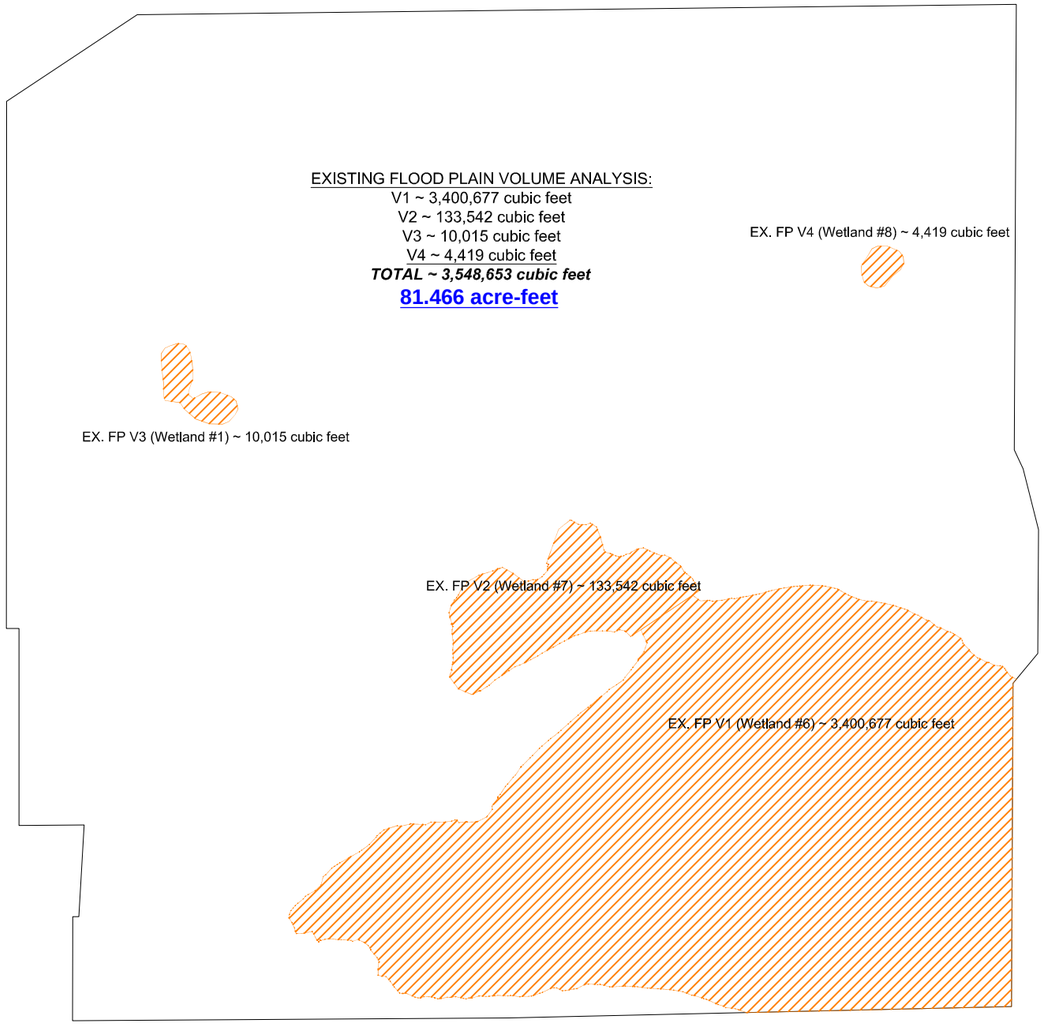
- Atlas14_100yr_Inundations
- BAP
- EAP
- Storm_Main
- Storm_Culvert
- Water Quality Pond
- Wetland
- Wetland Mitigation
- Lakes
- Parcels

N
W E
S

0 75150 300 450
Feet

HOLLYDALE GOLF COURSE - SBI FLOOD PLAIN VOLUME ANALYSIS - 06/24/2020

EXISTING CONDITIONS



PROPOSED CONDITIONS