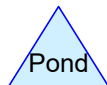
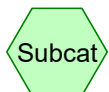


# TENN- PIN NORTH POND 06-15-2022



**Routing Diagram for PRE TENN - PIN NORTH POND 06-15-2022**

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**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
0.200	79	50-75% Grass cover, Fair, HSG C (1S)
<b>0.200</b>	<b>79</b>	<b>TOTAL AREA</b>

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**Soil Listing (all nodes)**

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.200	HSG C	1S
0.000	HSG D	
0.000	Other	
<b>0.200</b>		<b>TOTAL AREA</b>

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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
0.000	0.000	0.200	0.000	0.000	0.200	50-75% Grass cover, Fair	1S
<b>0.000</b>	<b>0.000</b>	<b>0.200</b>	<b>0.000</b>	<b>0.000</b>	<b>0.200</b>	<b>TOTAL AREA</b>	

**PRE TENN - PIN NORTH POND 06-15-2022**

*Type II 24-hr 2 YR Rainfall=3.39"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S: TENN- PIN NORTH POND** Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>1.36"  
Flow Length=200' Slope=0.0300 '/' Tc=2.7 min CN=79 Runoff=0.58 cfs 0.023 af

**Total Runoff Area = 0.200 ac Runoff Volume = 0.023 af Average Runoff Depth = 1.36"**  
**100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac**

**Summary for Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

EXISTING SITE - NO POND

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 0.58 cfs @ 11.94 hrs, Volume= 0.023 af, Depth> 1.36"

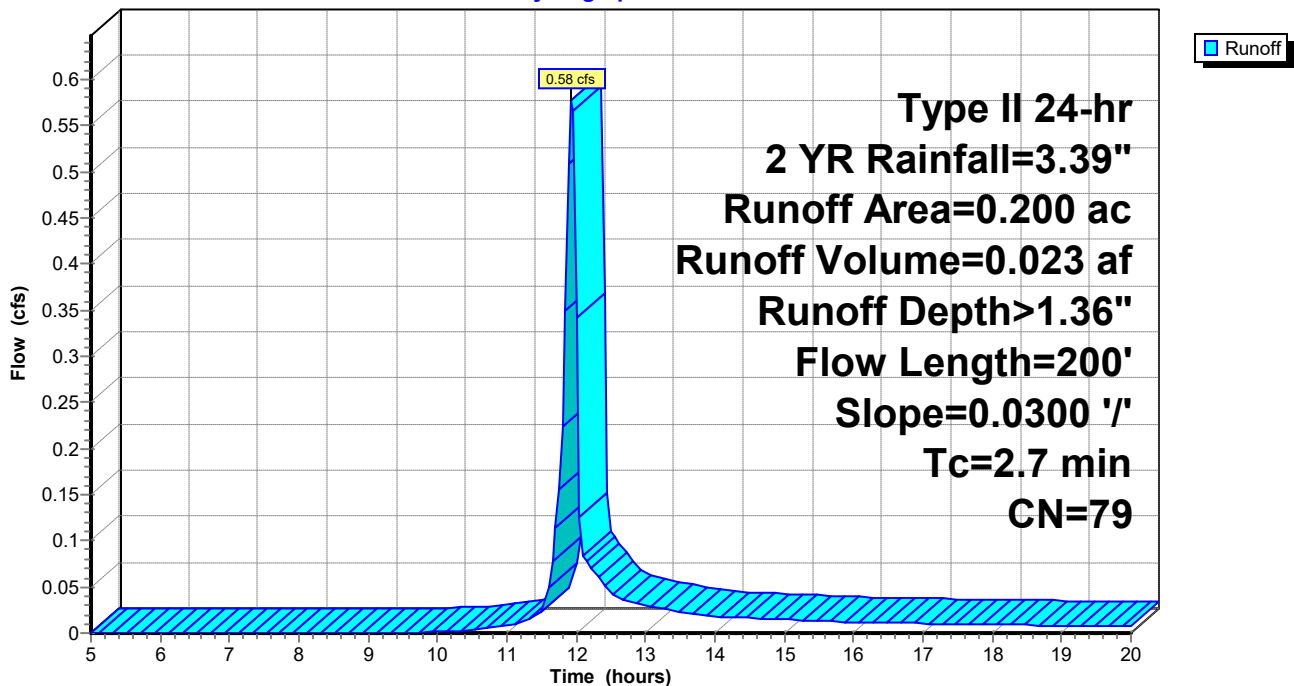
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs,  $dt= 0.05$  hrs  
 Type II 24-hr 2 YR Rainfall=3.39"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	200	0.0300	1.21		Shallow Concentrated Flow, SHEET FLOW Short Grass Pasture Kv= 7.0 fps

**Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

Hydrograph



**PRE TENN - PIN NORTH POND 06-15-2022**

*Type II 24-hr 5 YR Rainfall=4.50"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S: TENN- PIN NORTH POND** Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>2.20"  
Flow Length=200' Slope=0.0300 '/' Tc=2.7 min CN=79 Runoff=0.92 cfs 0.037 af

**Total Runoff Area = 0.200 ac Runoff Volume = 0.037 af Average Runoff Depth = 2.20"**  
**100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac**

**Summary for Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

EXISTING SITE - NO POND

[49] Hint:  $T_c < 2dt$  may require smaller dt

Runoff = 0.92 cfs @ 11.93 hrs, Volume= 0.037 af, Depth> 2.20"

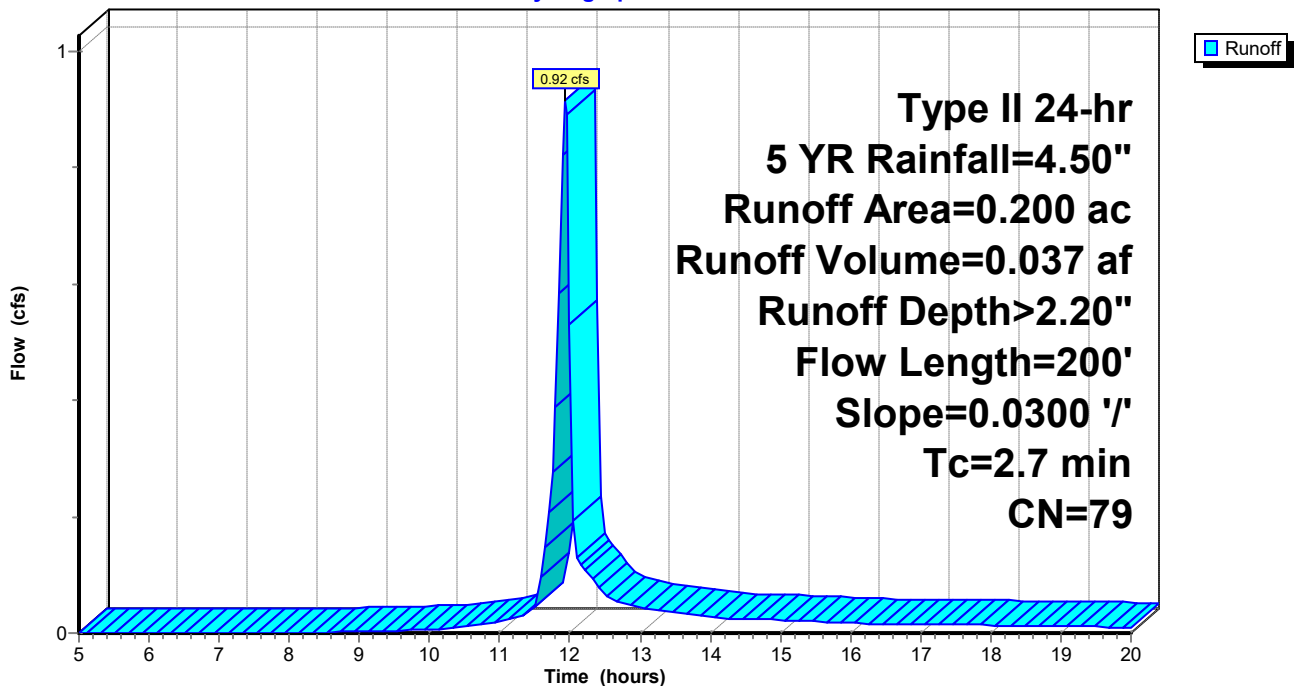
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs  
Type II 24-hr 5 YR Rainfall=4.50"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	200	0.0300	1.21		<b>Shallow Concentrated Flow, SHEET FLOW</b> Short Grass Pasture Kv= 7.0 fps

**Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

Hydrograph





**PRE TENN - PIN NORTH POND 06-15-2022**

*Type II 24-hr 10 YR Rainfall=5.23"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S: TENN- PIN NORTH POND** Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>2.78"  
Flow Length=200' Slope=0.0300 '/' Tc=2.7 min CN=79 Runoff=1.15 cfs 0.046 af

**Total Runoff Area = 0.200 ac Runoff Volume = 0.046 af Average Runoff Depth = 2.78"**  
**100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac**

**Summary for Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

EXISTING SITE - NO POND

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 1.15 cfs @ 11.93 hrs, Volume= 0.046 af, Depth> 2.78"

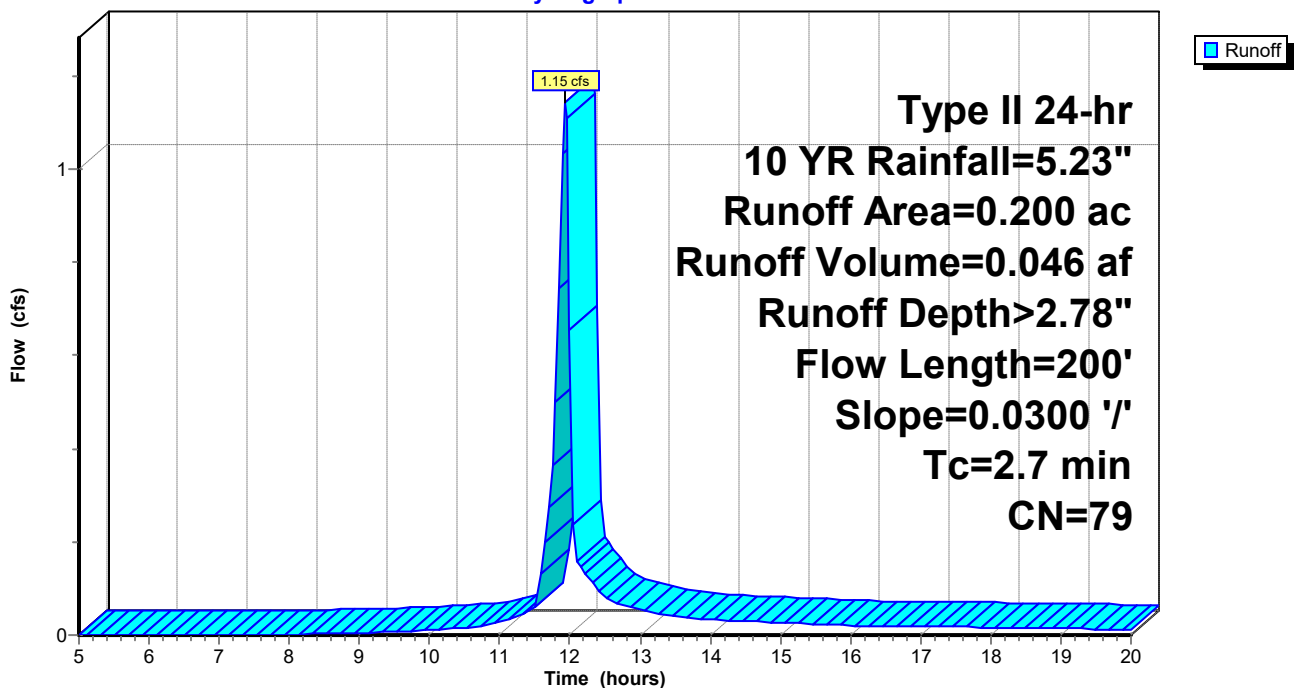
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs,  $dt= 0.05$  hrs  
 Type II 24-hr 10 YR Rainfall=5.23"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	200	0.0300	1.21		<b>Shallow Concentrated Flow, SHEET FLOW</b> Short Grass Pasture $K_v= 7.0$ fps

**Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

Hydrograph



**PRE TENN - PIN NORTH POND 06-15-2022**

*Type II 24-hr 25 YR Rainfall=6.16"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S: TENN- PIN NORTH POND** Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>3.56"  
Flow Length=200' Slope=0.0300 '/' Tc=2.7 min CN=79 Runoff=1.44 cfs 0.059 af

**Total Runoff Area = 0.200 ac Runoff Volume = 0.059 af Average Runoff Depth = 3.56"**  
**100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac**

**Summary for Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

EXISTING SITE - NO POND

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 1.44 cfs @ 11.93 hrs, Volume= 0.059 af, Depth> 3.56"

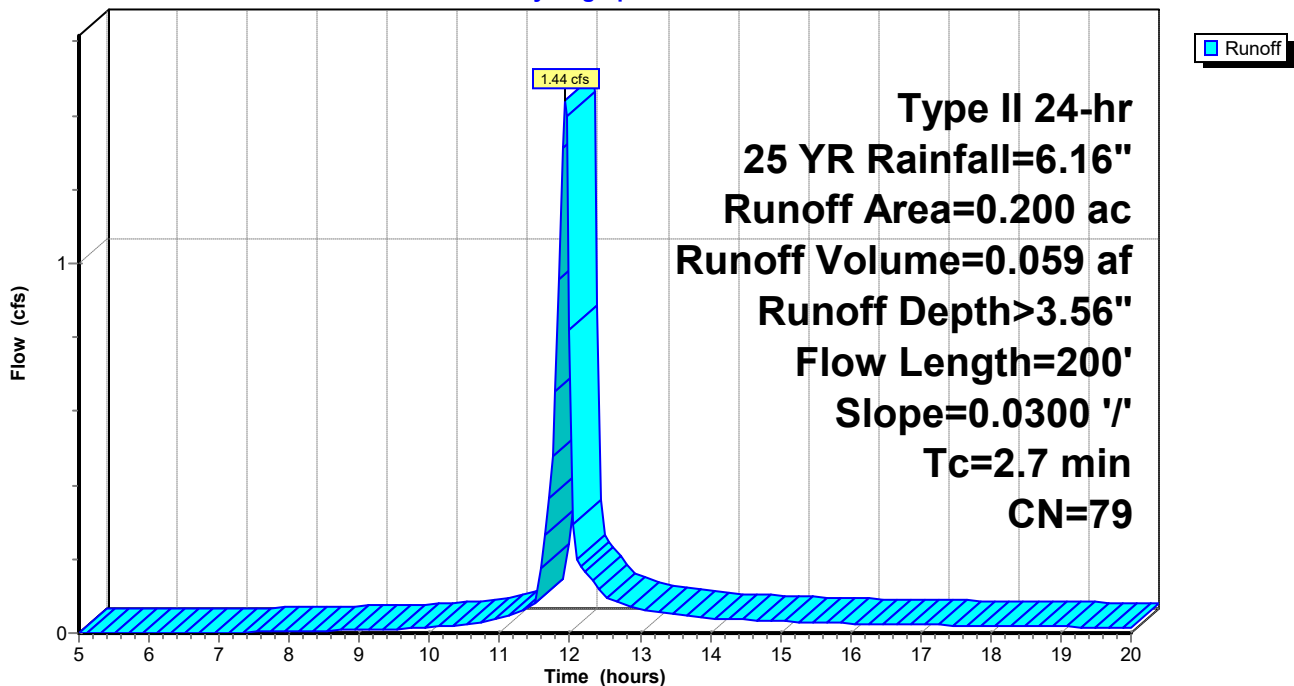
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs,  $dt= 0.05$  hrs  
 Type II 24-hr 25 YR Rainfall=6.16"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	200	0.0300	1.21		<b>Shallow Concentrated Flow, SHEET FLOW</b> Short Grass Pasture Kv= 7.0 fps

**Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

Hydrograph



**PRE TENN - PIN NORTH POND 06-15-2022**

*Type II 24-hr 50 YR Rainfall=6.85"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S: TENN- PIN NORTH POND** Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>4.15"  
Flow Length=200' Slope=0.0300 '/' Tc=2.7 min CN=79 Runoff=1.66 cfs 0.069 af

**Total Runoff Area = 0.200 ac Runoff Volume = 0.069 af Average Runoff Depth = 4.15"**  
**100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac**

**Summary for Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

EXISTING SITE - NO POND

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 1.66 cfs @ 11.93 hrs, Volume= 0.069 af, Depth> 4.15"

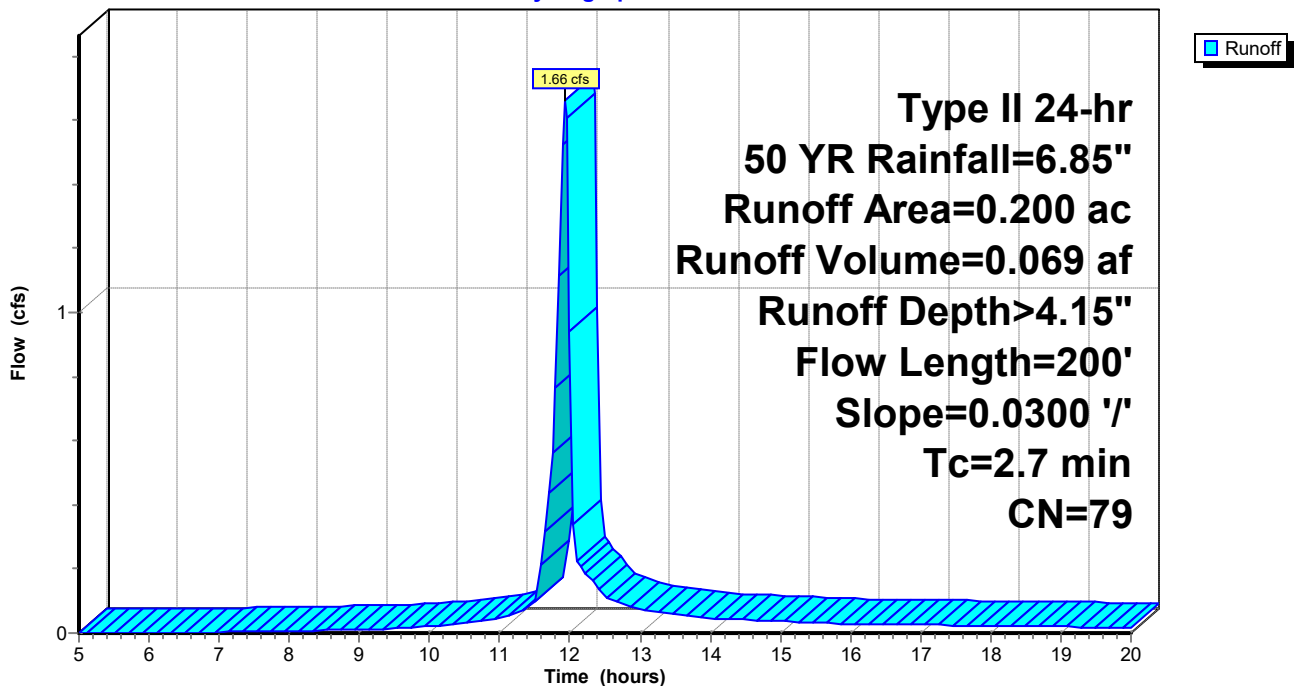
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs,  $dt= 0.05$  hrs  
 Type II 24-hr 50 YR Rainfall=6.85"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	200	0.0300	1.21		<b>Shallow Concentrated Flow, SHEET FLOW</b> Short Grass Pasture Kv= 7.0 fps

**Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

Hydrograph



**PRE TENN - PIN NORTH POND 06-15-2022**

*Type II 24-hr 100 YR Rainfall=7.53"*

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

**Subcatchment 1S: TENN- PIN NORTH POND** Runoff Area=0.200 ac 0.00% Impervious Runoff Depth=4.74"  
Flow Length=200' Slope=0.0300 '/' Tc=2.7 min CN=79 Runoff=1.88 cfs 0.079 af

**Total Runoff Area = 0.200 ac Runoff Volume = 0.079 af Average Runoff Depth = 4.74"**  
**100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac**

**Summary for Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

EXISTING SITE - NO POND

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 1.88 cfs @ 11.93 hrs, Volume= 0.079 af, Depth> 4.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs,  $dt= 0.05$  hrs  
 Type II 24-hr 100 YR Rainfall=7.53"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	200	0.0300	1.21		<b>Shallow Concentrated Flow, SHEET FLOW</b> Short Grass Pasture Kv= 7.0 fps

**Subcatchment 1S: TENN- PIN NORTH POND 06-15-2022**

Hydrograph

