

MRC Example 3

Prepared by VU for PADEP

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.160	79	50-75% Grass cover, Fair, HSG C (2S)
0.800	74	Meadow, non-grazed, HSG C (3S)
1.280	98	Paved roads w/curbs & sewers, HSG B (1S, 4S)
2.240	88	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
1.280	HSG B	1S, 4S
0.960	HSG C	2S, 3S
0.000	HSG D	
0.000	Other	
2.240		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
0.000	0.000	0.160	0.000	0.000	0.160	50-75% Grass cover, Fair	2S
0.000	0.000	0.800	0.000	0.000	0.800	Meadow, non-grazed	3S
0.000	1.280	0.000	0.000	0.000	1.280	Paved roads w/curbs & sewers	1S, 4S
0.000	1.280	0.960	0.000	0.000	2.240	TOTAL AREA	

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Notes Listing (all nodes)

Line#	Node Number	Notes
1	1P	50% IWS routing modeled with a $0.30 \times 50\% = 0.15$ void space

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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Time span=0.00-300.00 hrs, dt=0.01 hrs, 30001 points
 Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv.
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: 0.8 ac - 80% imp Runoff Area=27,878 sf 100.00% Impervious Runoff Depth=2.47"
 Tc=6.0 min CN=0/98 Runoff=1.82 cfs 0.132 af

Subcatchment2S: 0.8 ac - 20% Impervious Runoff Area=6,970 sf 0.00% Impervious Runoff Depth=0.97"
 Tc=6.0 min CN=79/0 Runoff=0.20 cfs 0.013 af

Subcatchment3S: 0.8 ac Pervious Runoff Area=34,848 sf 0.00% Impervious Runoff Depth=0.72"
 Tc=15.0 min CN=74/0 Runoff=0.51 cfs 0.048 af

Subcatchment4S: 0.8 ac - 80% imp 20% Runoff Area=27,878 sf 100.00% Impervious Runoff Depth=2.47"
 Tc=6.0 min CN=0/98 Runoff=1.82 cfs 0.132 af

Pond 1P: Managed Release Pemeable Peak Elev=-0.82' Storage=3,882 cf Inflow=2.03 cfs 0.145 af
 s 0.020 af Primary=0.01 cfs 0.043 af Secondary=0.00 cfs 0.000 af Tertiary=0.18 cfs 0.079 af Outflow=0.19 cfs 0.142 af

Total Runoff Area = 2.240 ac Runoff Volume = 0.325 af Average Runoff Depth = 1.74"
42.86% Pervious = 0.960 ac 57.14% Impervious = 1.280 ac

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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Summary for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Runoff = 1.82 cfs @ 12.13 hrs, Volume= 0.132 af, Depth= 2.47"

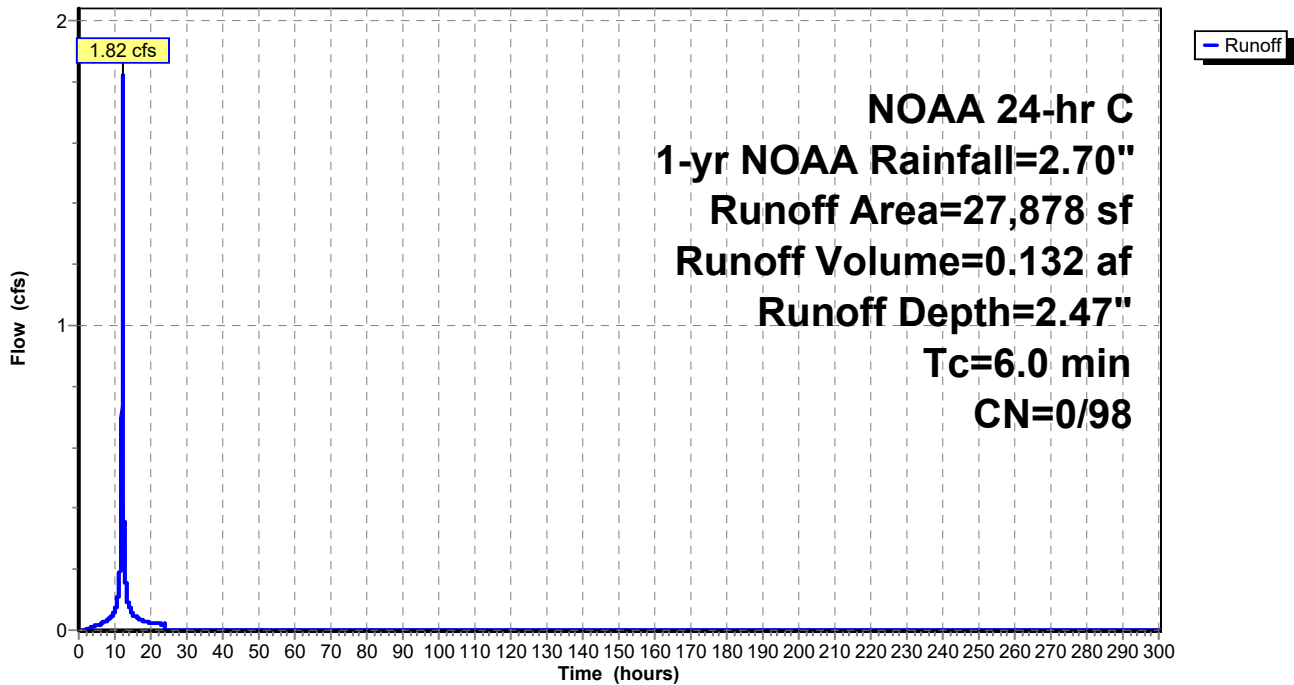
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Area (sf)	CN	Description
27,878	98	Paved roads w/curbs & sewers, HSG B
27,878	98	100.00% Impervious Area

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

Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Hydrograph



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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.03	0.00	0.00	0.00
2.00	0.06	0.00	0.00	0.00
3.00	0.10	0.00	0.01	0.01
4.00	0.13	0.00	0.03	0.01
5.00	0.17	0.00	0.05	0.02
6.00	0.21	0.00	0.08	0.02
7.00	0.26	0.00	0.12	0.03
8.00	0.32	0.00	0.16	0.03
9.00	0.39	0.00	0.22	0.04
10.00	0.49	0.00	0.31	0.07
11.00	0.65	0.00	0.45	0.13
12.00	1.29	0.00	1.07	1.01
13.00	2.05	0.00	1.83	0.16
14.00	2.21	0.00	1.98	0.08
15.00	2.31	0.00	2.08	0.05
16.00	2.38	0.00	2.15	0.04
17.00	2.44	0.00	2.21	0.04
18.00	2.49	0.00	2.26	0.03
19.00	2.53	0.00	2.30	0.03
20.00	2.57	0.00	2.34	0.02
21.00	2.60	0.00	2.37	0.02
22.00	2.64	0.00	2.41	0.02
23.00	2.67	0.00	2.44	0.02
24.00	2.70	0.00	2.47	0.02
25.00	2.70	0.00	2.47	0.00
26.00	2.70	0.00	2.47	0.00
27.00	2.70	0.00	2.47	0.00
28.00	2.70	0.00	2.47	0.00
29.00	2.70	0.00	2.47	0.00
30.00	2.70	0.00	2.47	0.00
31.00	2.70	0.00	2.47	0.00
32.00	2.70	0.00	2.47	0.00
33.00	2.70	0.00	2.47	0.00
34.00	2.70	0.00	2.47	0.00
35.00	2.70	0.00	2.47	0.00
36.00	2.70	0.00	2.47	0.00
37.00	2.70	0.00	2.47	0.00
38.00	2.70	0.00	2.47	0.00
39.00	2.70	0.00	2.47	0.00
40.00	2.70	0.00	2.47	0.00
41.00	2.70	0.00	2.47	0.00
42.00	2.70	0.00	2.47	0.00
43.00	2.70	0.00	2.47	0.00
44.00	2.70	0.00	2.47	0.00
45.00	2.70	0.00	2.47	0.00
46.00	2.70	0.00	2.47	0.00
47.00	2.70	0.00	2.47	0.00
48.00	2.70	0.00	2.47	0.00
49.00	2.70	0.00	2.47	0.00
50.00	2.70	0.00	2.47	0.00
51.00	2.70	0.00	2.47	0.00

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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	2.70	0.00	2.47	0.00
53.00	2.70	0.00	2.47	0.00
54.00	2.70	0.00	2.47	0.00
55.00	2.70	0.00	2.47	0.00
56.00	2.70	0.00	2.47	0.00
57.00	2.70	0.00	2.47	0.00
58.00	2.70	0.00	2.47	0.00
59.00	2.70	0.00	2.47	0.00
60.00	2.70	0.00	2.47	0.00
61.00	2.70	0.00	2.47	0.00
62.00	2.70	0.00	2.47	0.00
63.00	2.70	0.00	2.47	0.00
64.00	2.70	0.00	2.47	0.00
65.00	2.70	0.00	2.47	0.00
66.00	2.70	0.00	2.47	0.00
67.00	2.70	0.00	2.47	0.00
68.00	2.70	0.00	2.47	0.00
69.00	2.70	0.00	2.47	0.00
70.00	2.70	0.00	2.47	0.00
71.00	2.70	0.00	2.47	0.00
72.00	2.70	0.00	2.47	0.00
73.00	2.70	0.00	2.47	0.00
74.00	2.70	0.00	2.47	0.00
75.00	2.70	0.00	2.47	0.00
76.00	2.70	0.00	2.47	0.00
77.00	2.70	0.00	2.47	0.00
78.00	2.70	0.00	2.47	0.00
79.00	2.70	0.00	2.47	0.00
80.00	2.70	0.00	2.47	0.00
81.00	2.70	0.00	2.47	0.00
82.00	2.70	0.00	2.47	0.00
83.00	2.70	0.00	2.47	0.00
84.00	2.70	0.00	2.47	0.00
85.00	2.70	0.00	2.47	0.00
86.00	2.70	0.00	2.47	0.00
87.00	2.70	0.00	2.47	0.00
88.00	2.70	0.00	2.47	0.00
89.00	2.70	0.00	2.47	0.00
90.00	2.70	0.00	2.47	0.00
91.00	2.70	0.00	2.47	0.00
92.00	2.70	0.00	2.47	0.00
93.00	2.70	0.00	2.47	0.00
94.00	2.70	0.00	2.47	0.00
95.00	2.70	0.00	2.47	0.00
96.00	2.70	0.00	2.47	0.00
97.00	2.70	0.00	2.47	0.00
98.00	2.70	0.00	2.47	0.00
99.00	2.70	0.00	2.47	0.00
100.00	2.70	0.00	2.47	0.00
101.00	2.70	0.00	2.47	0.00
102.00	2.70	0.00	2.47	0.00
103.00	2.70	0.00	2.47	0.00

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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	2.70	0.00	2.47	0.00
105.00	2.70	0.00	2.47	0.00
106.00	2.70	0.00	2.47	0.00
107.00	2.70	0.00	2.47	0.00
108.00	2.70	0.00	2.47	0.00
109.00	2.70	0.00	2.47	0.00
110.00	2.70	0.00	2.47	0.00
111.00	2.70	0.00	2.47	0.00
112.00	2.70	0.00	2.47	0.00
113.00	2.70	0.00	2.47	0.00
114.00	2.70	0.00	2.47	0.00
115.00	2.70	0.00	2.47	0.00
116.00	2.70	0.00	2.47	0.00
117.00	2.70	0.00	2.47	0.00
118.00	2.70	0.00	2.47	0.00
119.00	2.70	0.00	2.47	0.00
120.00	2.70	0.00	2.47	0.00
121.00	2.70	0.00	2.47	0.00
122.00	2.70	0.00	2.47	0.00
123.00	2.70	0.00	2.47	0.00
124.00	2.70	0.00	2.47	0.00
125.00	2.70	0.00	2.47	0.00
126.00	2.70	0.00	2.47	0.00
127.00	2.70	0.00	2.47	0.00
128.00	2.70	0.00	2.47	0.00
129.00	2.70	0.00	2.47	0.00
130.00	2.70	0.00	2.47	0.00
131.00	2.70	0.00	2.47	0.00
132.00	2.70	0.00	2.47	0.00
133.00	2.70	0.00	2.47	0.00
134.00	2.70	0.00	2.47	0.00
135.00	2.70	0.00	2.47	0.00
136.00	2.70	0.00	2.47	0.00
137.00	2.70	0.00	2.47	0.00
138.00	2.70	0.00	2.47	0.00
139.00	2.70	0.00	2.47	0.00
140.00	2.70	0.00	2.47	0.00
141.00	2.70	0.00	2.47	0.00
142.00	2.70	0.00	2.47	0.00
143.00	2.70	0.00	2.47	0.00
144.00	2.70	0.00	2.47	0.00
145.00	2.70	0.00	2.47	0.00
146.00	2.70	0.00	2.47	0.00
147.00	2.70	0.00	2.47	0.00
148.00	2.70	0.00	2.47	0.00
149.00	2.70	0.00	2.47	0.00
150.00	2.70	0.00	2.47	0.00
151.00	2.70	0.00	2.47	0.00
152.00	2.70	0.00	2.47	0.00
153.00	2.70	0.00	2.47	0.00
154.00	2.70	0.00	2.47	0.00
155.00	2.70	0.00	2.47	0.00

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	2.70	0.00	2.47	0.00
157.00	2.70	0.00	2.47	0.00
158.00	2.70	0.00	2.47	0.00
159.00	2.70	0.00	2.47	0.00
160.00	2.70	0.00	2.47	0.00
161.00	2.70	0.00	2.47	0.00
162.00	2.70	0.00	2.47	0.00
163.00	2.70	0.00	2.47	0.00
164.00	2.70	0.00	2.47	0.00
165.00	2.70	0.00	2.47	0.00
166.00	2.70	0.00	2.47	0.00
167.00	2.70	0.00	2.47	0.00
168.00	2.70	0.00	2.47	0.00
169.00	2.70	0.00	2.47	0.00
170.00	2.70	0.00	2.47	0.00
171.00	2.70	0.00	2.47	0.00
172.00	2.70	0.00	2.47	0.00
173.00	2.70	0.00	2.47	0.00
174.00	2.70	0.00	2.47	0.00
175.00	2.70	0.00	2.47	0.00
176.00	2.70	0.00	2.47	0.00
177.00	2.70	0.00	2.47	0.00
178.00	2.70	0.00	2.47	0.00
179.00	2.70	0.00	2.47	0.00
180.00	2.70	0.00	2.47	0.00
181.00	2.70	0.00	2.47	0.00
182.00	2.70	0.00	2.47	0.00
183.00	2.70	0.00	2.47	0.00
184.00	2.70	0.00	2.47	0.00
185.00	2.70	0.00	2.47	0.00
186.00	2.70	0.00	2.47	0.00
187.00	2.70	0.00	2.47	0.00
188.00	2.70	0.00	2.47	0.00
189.00	2.70	0.00	2.47	0.00
190.00	2.70	0.00	2.47	0.00
191.00	2.70	0.00	2.47	0.00
192.00	2.70	0.00	2.47	0.00
193.00	2.70	0.00	2.47	0.00
194.00	2.70	0.00	2.47	0.00
195.00	2.70	0.00	2.47	0.00
196.00	2.70	0.00	2.47	0.00
197.00	2.70	0.00	2.47	0.00
198.00	2.70	0.00	2.47	0.00
199.00	2.70	0.00	2.47	0.00
200.00	2.70	0.00	2.47	0.00
201.00	2.70	0.00	2.47	0.00
202.00	2.70	0.00	2.47	0.00
203.00	2.70	0.00	2.47	0.00
204.00	2.70	0.00	2.47	0.00
205.00	2.70	0.00	2.47	0.00
206.00	2.70	0.00	2.47	0.00
207.00	2.70	0.00	2.47	0.00

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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	2.70	0.00	2.47	0.00
209.00	2.70	0.00	2.47	0.00
210.00	2.70	0.00	2.47	0.00
211.00	2.70	0.00	2.47	0.00
212.00	2.70	0.00	2.47	0.00
213.00	2.70	0.00	2.47	0.00
214.00	2.70	0.00	2.47	0.00
215.00	2.70	0.00	2.47	0.00
216.00	2.70	0.00	2.47	0.00
217.00	2.70	0.00	2.47	0.00
218.00	2.70	0.00	2.47	0.00
219.00	2.70	0.00	2.47	0.00
220.00	2.70	0.00	2.47	0.00
221.00	2.70	0.00	2.47	0.00
222.00	2.70	0.00	2.47	0.00
223.00	2.70	0.00	2.47	0.00
224.00	2.70	0.00	2.47	0.00
225.00	2.70	0.00	2.47	0.00
226.00	2.70	0.00	2.47	0.00
227.00	2.70	0.00	2.47	0.00
228.00	2.70	0.00	2.47	0.00
229.00	2.70	0.00	2.47	0.00
230.00	2.70	0.00	2.47	0.00
231.00	2.70	0.00	2.47	0.00
232.00	2.70	0.00	2.47	0.00
233.00	2.70	0.00	2.47	0.00
234.00	2.70	0.00	2.47	0.00
235.00	2.70	0.00	2.47	0.00
236.00	2.70	0.00	2.47	0.00
237.00	2.70	0.00	2.47	0.00
238.00	2.70	0.00	2.47	0.00
239.00	2.70	0.00	2.47	0.00
240.00	2.70	0.00	2.47	0.00
241.00	2.70	0.00	2.47	0.00
242.00	2.70	0.00	2.47	0.00
243.00	2.70	0.00	2.47	0.00
244.00	2.70	0.00	2.47	0.00
245.00	2.70	0.00	2.47	0.00
246.00	2.70	0.00	2.47	0.00
247.00	2.70	0.00	2.47	0.00
248.00	2.70	0.00	2.47	0.00
249.00	2.70	0.00	2.47	0.00
250.00	2.70	0.00	2.47	0.00
251.00	2.70	0.00	2.47	0.00
252.00	2.70	0.00	2.47	0.00
253.00	2.70	0.00	2.47	0.00
254.00	2.70	0.00	2.47	0.00
255.00	2.70	0.00	2.47	0.00
256.00	2.70	0.00	2.47	0.00
257.00	2.70	0.00	2.47	0.00
258.00	2.70	0.00	2.47	0.00
259.00	2.70	0.00	2.47	0.00

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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	2.70	0.00	2.47	0.00
261.00	2.70	0.00	2.47	0.00
262.00	2.70	0.00	2.47	0.00
263.00	2.70	0.00	2.47	0.00
264.00	2.70	0.00	2.47	0.00
265.00	2.70	0.00	2.47	0.00
266.00	2.70	0.00	2.47	0.00
267.00	2.70	0.00	2.47	0.00
268.00	2.70	0.00	2.47	0.00
269.00	2.70	0.00	2.47	0.00
270.00	2.70	0.00	2.47	0.00
271.00	2.70	0.00	2.47	0.00
272.00	2.70	0.00	2.47	0.00
273.00	2.70	0.00	2.47	0.00
274.00	2.70	0.00	2.47	0.00
275.00	2.70	0.00	2.47	0.00
276.00	2.70	0.00	2.47	0.00
277.00	2.70	0.00	2.47	0.00
278.00	2.70	0.00	2.47	0.00
279.00	2.70	0.00	2.47	0.00
280.00	2.70	0.00	2.47	0.00
281.00	2.70	0.00	2.47	0.00
282.00	2.70	0.00	2.47	0.00
283.00	2.70	0.00	2.47	0.00
284.00	2.70	0.00	2.47	0.00
285.00	2.70	0.00	2.47	0.00
286.00	2.70	0.00	2.47	0.00
287.00	2.70	0.00	2.47	0.00
288.00	2.70	0.00	2.47	0.00
289.00	2.70	0.00	2.47	0.00
290.00	2.70	0.00	2.47	0.00
291.00	2.70	0.00	2.47	0.00
292.00	2.70	0.00	2.47	0.00
293.00	2.70	0.00	2.47	0.00
294.00	2.70	0.00	2.47	0.00
295.00	2.70	0.00	2.47	0.00
296.00	2.70	0.00	2.47	0.00
297.00	2.70	0.00	2.47	0.00
298.00	2.70	0.00	2.47	0.00
299.00	2.70	0.00	2.47	0.00
300.00	2.70	0.00	2.47	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Summary for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Runoff = 0.20 cfs @ 12.14 hrs, Volume= 0.013 af, Depth= 0.97"

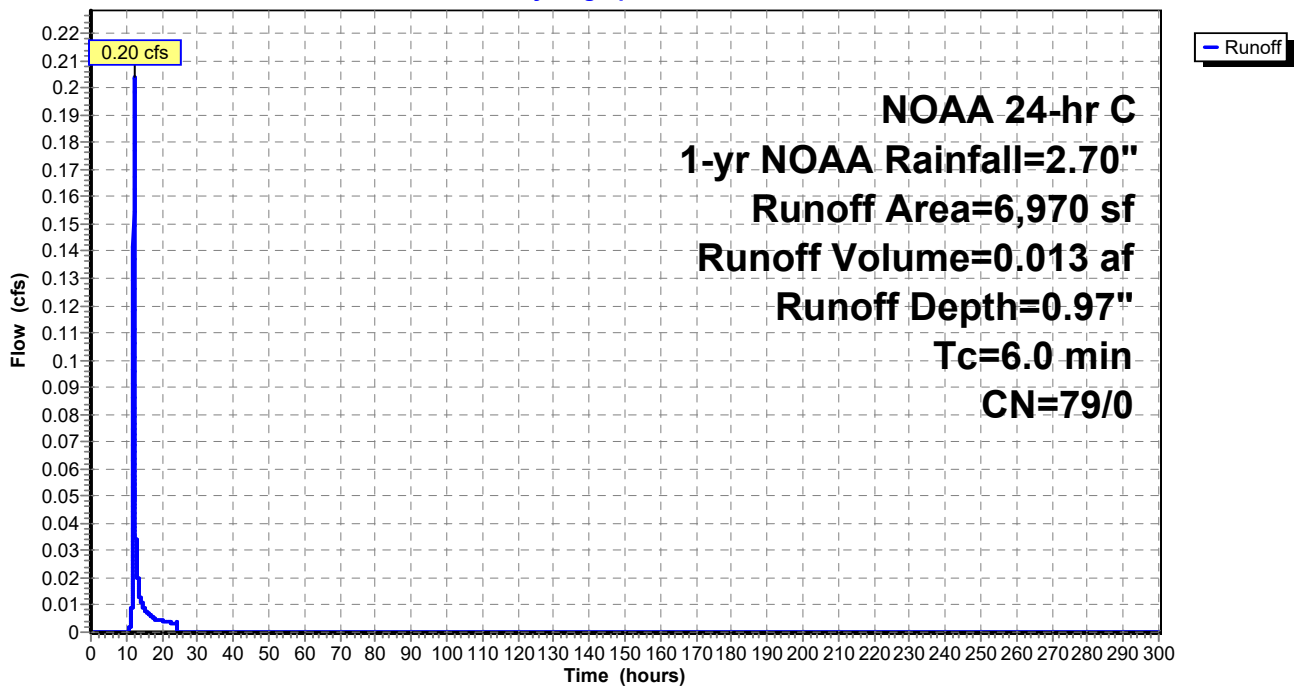
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Area (sf)	CN	Description
6,970	79	50-75% Grass cover, Fair, HSG C
6,970	79	100.00% Pervious Area

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

Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Hydrograph



MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.03	0.00	0.00	0.00
2.00	0.06	0.00	0.00	0.00
3.00	0.10	0.00	0.00	0.00
4.00	0.13	0.00	0.00	0.00
5.00	0.17	0.00	0.00	0.00
6.00	0.21	0.00	0.00	0.00
7.00	0.26	0.00	0.00	0.00
8.00	0.32	0.00	0.00	0.00
9.00	0.39	0.00	0.00	0.00
10.00	0.49	0.00	0.00	0.00
11.00	0.65	0.00	0.00	0.00
12.00	1.29	0.17	0.00	0.09
13.00	2.05	0.55	0.00	0.02
14.00	2.21	0.65	0.00	0.01
15.00	2.31	0.71	0.00	0.01
16.00	2.38	0.76	0.00	0.01
17.00	2.44	0.80	0.00	0.01
18.00	2.49	0.83	0.00	0.00
19.00	2.53	0.86	0.00	0.00
20.00	2.57	0.88	0.00	0.00
21.00	2.60	0.91	0.00	0.00
22.00	2.64	0.93	0.00	0.00
23.00	2.67	0.95	0.00	0.00
24.00	2.70	0.97	0.00	0.00
25.00	2.70	0.97	0.00	0.00
26.00	2.70	0.97	0.00	0.00
27.00	2.70	0.97	0.00	0.00
28.00	2.70	0.97	0.00	0.00
29.00	2.70	0.97	0.00	0.00
30.00	2.70	0.97	0.00	0.00
31.00	2.70	0.97	0.00	0.00
32.00	2.70	0.97	0.00	0.00
33.00	2.70	0.97	0.00	0.00
34.00	2.70	0.97	0.00	0.00
35.00	2.70	0.97	0.00	0.00
36.00	2.70	0.97	0.00	0.00
37.00	2.70	0.97	0.00	0.00
38.00	2.70	0.97	0.00	0.00
39.00	2.70	0.97	0.00	0.00
40.00	2.70	0.97	0.00	0.00
41.00	2.70	0.97	0.00	0.00
42.00	2.70	0.97	0.00	0.00
43.00	2.70	0.97	0.00	0.00
44.00	2.70	0.97	0.00	0.00
45.00	2.70	0.97	0.00	0.00
46.00	2.70	0.97	0.00	0.00
47.00	2.70	0.97	0.00	0.00
48.00	2.70	0.97	0.00	0.00
49.00	2.70	0.97	0.00	0.00
50.00	2.70	0.97	0.00	0.00
51.00	2.70	0.97	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	2.70	0.97	0.00	0.00
53.00	2.70	0.97	0.00	0.00
54.00	2.70	0.97	0.00	0.00
55.00	2.70	0.97	0.00	0.00
56.00	2.70	0.97	0.00	0.00
57.00	2.70	0.97	0.00	0.00
58.00	2.70	0.97	0.00	0.00
59.00	2.70	0.97	0.00	0.00
60.00	2.70	0.97	0.00	0.00
61.00	2.70	0.97	0.00	0.00
62.00	2.70	0.97	0.00	0.00
63.00	2.70	0.97	0.00	0.00
64.00	2.70	0.97	0.00	0.00
65.00	2.70	0.97	0.00	0.00
66.00	2.70	0.97	0.00	0.00
67.00	2.70	0.97	0.00	0.00
68.00	2.70	0.97	0.00	0.00
69.00	2.70	0.97	0.00	0.00
70.00	2.70	0.97	0.00	0.00
71.00	2.70	0.97	0.00	0.00
72.00	2.70	0.97	0.00	0.00
73.00	2.70	0.97	0.00	0.00
74.00	2.70	0.97	0.00	0.00
75.00	2.70	0.97	0.00	0.00
76.00	2.70	0.97	0.00	0.00
77.00	2.70	0.97	0.00	0.00
78.00	2.70	0.97	0.00	0.00
79.00	2.70	0.97	0.00	0.00
80.00	2.70	0.97	0.00	0.00
81.00	2.70	0.97	0.00	0.00
82.00	2.70	0.97	0.00	0.00
83.00	2.70	0.97	0.00	0.00
84.00	2.70	0.97	0.00	0.00
85.00	2.70	0.97	0.00	0.00
86.00	2.70	0.97	0.00	0.00
87.00	2.70	0.97	0.00	0.00
88.00	2.70	0.97	0.00	0.00
89.00	2.70	0.97	0.00	0.00
90.00	2.70	0.97	0.00	0.00
91.00	2.70	0.97	0.00	0.00
92.00	2.70	0.97	0.00	0.00
93.00	2.70	0.97	0.00	0.00
94.00	2.70	0.97	0.00	0.00
95.00	2.70	0.97	0.00	0.00
96.00	2.70	0.97	0.00	0.00
97.00	2.70	0.97	0.00	0.00
98.00	2.70	0.97	0.00	0.00
99.00	2.70	0.97	0.00	0.00
100.00	2.70	0.97	0.00	0.00
101.00	2.70	0.97	0.00	0.00
102.00	2.70	0.97	0.00	0.00
103.00	2.70	0.97	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	2.70	0.97	0.00	0.00
105.00	2.70	0.97	0.00	0.00
106.00	2.70	0.97	0.00	0.00
107.00	2.70	0.97	0.00	0.00
108.00	2.70	0.97	0.00	0.00
109.00	2.70	0.97	0.00	0.00
110.00	2.70	0.97	0.00	0.00
111.00	2.70	0.97	0.00	0.00
112.00	2.70	0.97	0.00	0.00
113.00	2.70	0.97	0.00	0.00
114.00	2.70	0.97	0.00	0.00
115.00	2.70	0.97	0.00	0.00
116.00	2.70	0.97	0.00	0.00
117.00	2.70	0.97	0.00	0.00
118.00	2.70	0.97	0.00	0.00
119.00	2.70	0.97	0.00	0.00
120.00	2.70	0.97	0.00	0.00
121.00	2.70	0.97	0.00	0.00
122.00	2.70	0.97	0.00	0.00
123.00	2.70	0.97	0.00	0.00
124.00	2.70	0.97	0.00	0.00
125.00	2.70	0.97	0.00	0.00
126.00	2.70	0.97	0.00	0.00
127.00	2.70	0.97	0.00	0.00
128.00	2.70	0.97	0.00	0.00
129.00	2.70	0.97	0.00	0.00
130.00	2.70	0.97	0.00	0.00
131.00	2.70	0.97	0.00	0.00
132.00	2.70	0.97	0.00	0.00
133.00	2.70	0.97	0.00	0.00
134.00	2.70	0.97	0.00	0.00
135.00	2.70	0.97	0.00	0.00
136.00	2.70	0.97	0.00	0.00
137.00	2.70	0.97	0.00	0.00
138.00	2.70	0.97	0.00	0.00
139.00	2.70	0.97	0.00	0.00
140.00	2.70	0.97	0.00	0.00
141.00	2.70	0.97	0.00	0.00
142.00	2.70	0.97	0.00	0.00
143.00	2.70	0.97	0.00	0.00
144.00	2.70	0.97	0.00	0.00
145.00	2.70	0.97	0.00	0.00
146.00	2.70	0.97	0.00	0.00
147.00	2.70	0.97	0.00	0.00
148.00	2.70	0.97	0.00	0.00
149.00	2.70	0.97	0.00	0.00
150.00	2.70	0.97	0.00	0.00
151.00	2.70	0.97	0.00	0.00
152.00	2.70	0.97	0.00	0.00
153.00	2.70	0.97	0.00	0.00
154.00	2.70	0.97	0.00	0.00
155.00	2.70	0.97	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	2.70	0.97	0.00	0.00
157.00	2.70	0.97	0.00	0.00
158.00	2.70	0.97	0.00	0.00
159.00	2.70	0.97	0.00	0.00
160.00	2.70	0.97	0.00	0.00
161.00	2.70	0.97	0.00	0.00
162.00	2.70	0.97	0.00	0.00
163.00	2.70	0.97	0.00	0.00
164.00	2.70	0.97	0.00	0.00
165.00	2.70	0.97	0.00	0.00
166.00	2.70	0.97	0.00	0.00
167.00	2.70	0.97	0.00	0.00
168.00	2.70	0.97	0.00	0.00
169.00	2.70	0.97	0.00	0.00
170.00	2.70	0.97	0.00	0.00
171.00	2.70	0.97	0.00	0.00
172.00	2.70	0.97	0.00	0.00
173.00	2.70	0.97	0.00	0.00
174.00	2.70	0.97	0.00	0.00
175.00	2.70	0.97	0.00	0.00
176.00	2.70	0.97	0.00	0.00
177.00	2.70	0.97	0.00	0.00
178.00	2.70	0.97	0.00	0.00
179.00	2.70	0.97	0.00	0.00
180.00	2.70	0.97	0.00	0.00
181.00	2.70	0.97	0.00	0.00
182.00	2.70	0.97	0.00	0.00
183.00	2.70	0.97	0.00	0.00
184.00	2.70	0.97	0.00	0.00
185.00	2.70	0.97	0.00	0.00
186.00	2.70	0.97	0.00	0.00
187.00	2.70	0.97	0.00	0.00
188.00	2.70	0.97	0.00	0.00
189.00	2.70	0.97	0.00	0.00
190.00	2.70	0.97	0.00	0.00
191.00	2.70	0.97	0.00	0.00
192.00	2.70	0.97	0.00	0.00
193.00	2.70	0.97	0.00	0.00
194.00	2.70	0.97	0.00	0.00
195.00	2.70	0.97	0.00	0.00
196.00	2.70	0.97	0.00	0.00
197.00	2.70	0.97	0.00	0.00
198.00	2.70	0.97	0.00	0.00
199.00	2.70	0.97	0.00	0.00
200.00	2.70	0.97	0.00	0.00
201.00	2.70	0.97	0.00	0.00
202.00	2.70	0.97	0.00	0.00
203.00	2.70	0.97	0.00	0.00
204.00	2.70	0.97	0.00	0.00
205.00	2.70	0.97	0.00	0.00
206.00	2.70	0.97	0.00	0.00
207.00	2.70	0.97	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	2.70	0.97	0.00	0.00
209.00	2.70	0.97	0.00	0.00
210.00	2.70	0.97	0.00	0.00
211.00	2.70	0.97	0.00	0.00
212.00	2.70	0.97	0.00	0.00
213.00	2.70	0.97	0.00	0.00
214.00	2.70	0.97	0.00	0.00
215.00	2.70	0.97	0.00	0.00
216.00	2.70	0.97	0.00	0.00
217.00	2.70	0.97	0.00	0.00
218.00	2.70	0.97	0.00	0.00
219.00	2.70	0.97	0.00	0.00
220.00	2.70	0.97	0.00	0.00
221.00	2.70	0.97	0.00	0.00
222.00	2.70	0.97	0.00	0.00
223.00	2.70	0.97	0.00	0.00
224.00	2.70	0.97	0.00	0.00
225.00	2.70	0.97	0.00	0.00
226.00	2.70	0.97	0.00	0.00
227.00	2.70	0.97	0.00	0.00
228.00	2.70	0.97	0.00	0.00
229.00	2.70	0.97	0.00	0.00
230.00	2.70	0.97	0.00	0.00
231.00	2.70	0.97	0.00	0.00
232.00	2.70	0.97	0.00	0.00
233.00	2.70	0.97	0.00	0.00
234.00	2.70	0.97	0.00	0.00
235.00	2.70	0.97	0.00	0.00
236.00	2.70	0.97	0.00	0.00
237.00	2.70	0.97	0.00	0.00
238.00	2.70	0.97	0.00	0.00
239.00	2.70	0.97	0.00	0.00
240.00	2.70	0.97	0.00	0.00
241.00	2.70	0.97	0.00	0.00
242.00	2.70	0.97	0.00	0.00
243.00	2.70	0.97	0.00	0.00
244.00	2.70	0.97	0.00	0.00
245.00	2.70	0.97	0.00	0.00
246.00	2.70	0.97	0.00	0.00
247.00	2.70	0.97	0.00	0.00
248.00	2.70	0.97	0.00	0.00
249.00	2.70	0.97	0.00	0.00
250.00	2.70	0.97	0.00	0.00
251.00	2.70	0.97	0.00	0.00
252.00	2.70	0.97	0.00	0.00
253.00	2.70	0.97	0.00	0.00
254.00	2.70	0.97	0.00	0.00
255.00	2.70	0.97	0.00	0.00
256.00	2.70	0.97	0.00	0.00
257.00	2.70	0.97	0.00	0.00
258.00	2.70	0.97	0.00	0.00
259.00	2.70	0.97	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	2.70	0.97	0.00	0.00
261.00	2.70	0.97	0.00	0.00
262.00	2.70	0.97	0.00	0.00
263.00	2.70	0.97	0.00	0.00
264.00	2.70	0.97	0.00	0.00
265.00	2.70	0.97	0.00	0.00
266.00	2.70	0.97	0.00	0.00
267.00	2.70	0.97	0.00	0.00
268.00	2.70	0.97	0.00	0.00
269.00	2.70	0.97	0.00	0.00
270.00	2.70	0.97	0.00	0.00
271.00	2.70	0.97	0.00	0.00
272.00	2.70	0.97	0.00	0.00
273.00	2.70	0.97	0.00	0.00
274.00	2.70	0.97	0.00	0.00
275.00	2.70	0.97	0.00	0.00
276.00	2.70	0.97	0.00	0.00
277.00	2.70	0.97	0.00	0.00
278.00	2.70	0.97	0.00	0.00
279.00	2.70	0.97	0.00	0.00
280.00	2.70	0.97	0.00	0.00
281.00	2.70	0.97	0.00	0.00
282.00	2.70	0.97	0.00	0.00
283.00	2.70	0.97	0.00	0.00
284.00	2.70	0.97	0.00	0.00
285.00	2.70	0.97	0.00	0.00
286.00	2.70	0.97	0.00	0.00
287.00	2.70	0.97	0.00	0.00
288.00	2.70	0.97	0.00	0.00
289.00	2.70	0.97	0.00	0.00
290.00	2.70	0.97	0.00	0.00
291.00	2.70	0.97	0.00	0.00
292.00	2.70	0.97	0.00	0.00
293.00	2.70	0.97	0.00	0.00
294.00	2.70	0.97	0.00	0.00
295.00	2.70	0.97	0.00	0.00
296.00	2.70	0.97	0.00	0.00
297.00	2.70	0.97	0.00	0.00
298.00	2.70	0.97	0.00	0.00
299.00	2.70	0.97	0.00	0.00
300.00	2.70	0.97	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Summary for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Runoff = 0.51 cfs @ 12.25 hrs, Volume= 0.048 af, Depth= 0.72"

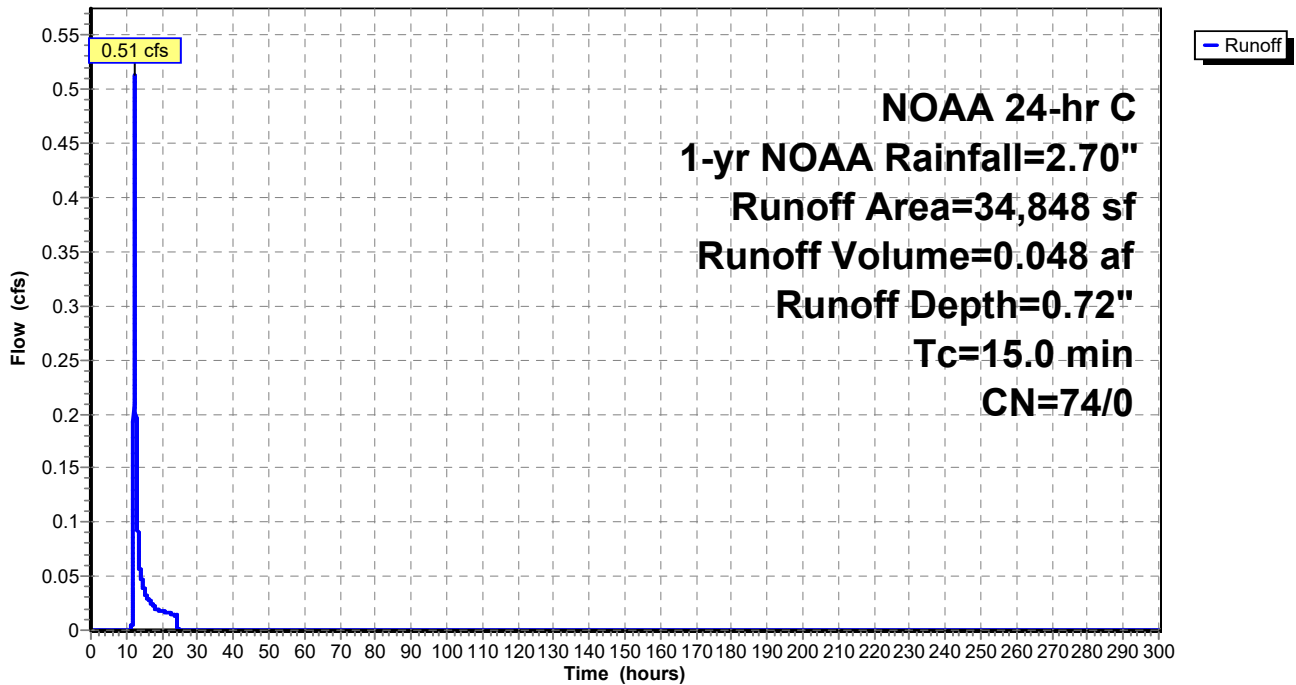
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

	Area (sf)	CN	Description
*	34,848	74	Meadow, non-grazed, HSG C
	34,848	74	100.00% Pervious Area

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

Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Hydrograph



MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.03	0.00	0.00	0.00
2.00	0.06	0.00	0.00	0.00
3.00	0.10	0.00	0.00	0.00
4.00	0.13	0.00	0.00	0.00
5.00	0.17	0.00	0.00	0.00
6.00	0.21	0.00	0.00	0.00
7.00	0.26	0.00	0.00	0.00
8.00	0.32	0.00	0.00	0.00
9.00	0.39	0.00	0.00	0.00
10.00	0.49	0.00	0.00	0.00
11.00	0.65	0.00	0.00	0.00
12.00	1.29	0.08	0.00	0.11
13.00	2.05	0.37	0.00	0.11
14.00	2.21	0.45	0.00	0.05
15.00	2.31	0.50	0.00	0.04
16.00	2.38	0.54	0.00	0.03
17.00	2.44	0.57	0.00	0.03
18.00	2.49	0.60	0.00	0.02
19.00	2.53	0.62	0.00	0.02
20.00	2.57	0.65	0.00	0.02
21.00	2.60	0.67	0.00	0.02
22.00	2.64	0.69	0.00	0.02
23.00	2.67	0.71	0.00	0.01
24.00	2.70	0.72	0.00	0.01
25.00	2.70	0.72	0.00	0.00
26.00	2.70	0.72	0.00	0.00
27.00	2.70	0.72	0.00	0.00
28.00	2.70	0.72	0.00	0.00
29.00	2.70	0.72	0.00	0.00
30.00	2.70	0.72	0.00	0.00
31.00	2.70	0.72	0.00	0.00
32.00	2.70	0.72	0.00	0.00
33.00	2.70	0.72	0.00	0.00
34.00	2.70	0.72	0.00	0.00
35.00	2.70	0.72	0.00	0.00
36.00	2.70	0.72	0.00	0.00
37.00	2.70	0.72	0.00	0.00
38.00	2.70	0.72	0.00	0.00
39.00	2.70	0.72	0.00	0.00
40.00	2.70	0.72	0.00	0.00
41.00	2.70	0.72	0.00	0.00
42.00	2.70	0.72	0.00	0.00
43.00	2.70	0.72	0.00	0.00
44.00	2.70	0.72	0.00	0.00
45.00	2.70	0.72	0.00	0.00
46.00	2.70	0.72	0.00	0.00
47.00	2.70	0.72	0.00	0.00
48.00	2.70	0.72	0.00	0.00
49.00	2.70	0.72	0.00	0.00
50.00	2.70	0.72	0.00	0.00
51.00	2.70	0.72	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	2.70	0.72	0.00	0.00
53.00	2.70	0.72	0.00	0.00
54.00	2.70	0.72	0.00	0.00
55.00	2.70	0.72	0.00	0.00
56.00	2.70	0.72	0.00	0.00
57.00	2.70	0.72	0.00	0.00
58.00	2.70	0.72	0.00	0.00
59.00	2.70	0.72	0.00	0.00
60.00	2.70	0.72	0.00	0.00
61.00	2.70	0.72	0.00	0.00
62.00	2.70	0.72	0.00	0.00
63.00	2.70	0.72	0.00	0.00
64.00	2.70	0.72	0.00	0.00
65.00	2.70	0.72	0.00	0.00
66.00	2.70	0.72	0.00	0.00
67.00	2.70	0.72	0.00	0.00
68.00	2.70	0.72	0.00	0.00
69.00	2.70	0.72	0.00	0.00
70.00	2.70	0.72	0.00	0.00
71.00	2.70	0.72	0.00	0.00
72.00	2.70	0.72	0.00	0.00
73.00	2.70	0.72	0.00	0.00
74.00	2.70	0.72	0.00	0.00
75.00	2.70	0.72	0.00	0.00
76.00	2.70	0.72	0.00	0.00
77.00	2.70	0.72	0.00	0.00
78.00	2.70	0.72	0.00	0.00
79.00	2.70	0.72	0.00	0.00
80.00	2.70	0.72	0.00	0.00
81.00	2.70	0.72	0.00	0.00
82.00	2.70	0.72	0.00	0.00
83.00	2.70	0.72	0.00	0.00
84.00	2.70	0.72	0.00	0.00
85.00	2.70	0.72	0.00	0.00
86.00	2.70	0.72	0.00	0.00
87.00	2.70	0.72	0.00	0.00
88.00	2.70	0.72	0.00	0.00
89.00	2.70	0.72	0.00	0.00
90.00	2.70	0.72	0.00	0.00
91.00	2.70	0.72	0.00	0.00
92.00	2.70	0.72	0.00	0.00
93.00	2.70	0.72	0.00	0.00
94.00	2.70	0.72	0.00	0.00
95.00	2.70	0.72	0.00	0.00
96.00	2.70	0.72	0.00	0.00
97.00	2.70	0.72	0.00	0.00
98.00	2.70	0.72	0.00	0.00
99.00	2.70	0.72	0.00	0.00
100.00	2.70	0.72	0.00	0.00
101.00	2.70	0.72	0.00	0.00
102.00	2.70	0.72	0.00	0.00
103.00	2.70	0.72	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	2.70	0.72	0.00	0.00
105.00	2.70	0.72	0.00	0.00
106.00	2.70	0.72	0.00	0.00
107.00	2.70	0.72	0.00	0.00
108.00	2.70	0.72	0.00	0.00
109.00	2.70	0.72	0.00	0.00
110.00	2.70	0.72	0.00	0.00
111.00	2.70	0.72	0.00	0.00
112.00	2.70	0.72	0.00	0.00
113.00	2.70	0.72	0.00	0.00
114.00	2.70	0.72	0.00	0.00
115.00	2.70	0.72	0.00	0.00
116.00	2.70	0.72	0.00	0.00
117.00	2.70	0.72	0.00	0.00
118.00	2.70	0.72	0.00	0.00
119.00	2.70	0.72	0.00	0.00
120.00	2.70	0.72	0.00	0.00
121.00	2.70	0.72	0.00	0.00
122.00	2.70	0.72	0.00	0.00
123.00	2.70	0.72	0.00	0.00
124.00	2.70	0.72	0.00	0.00
125.00	2.70	0.72	0.00	0.00
126.00	2.70	0.72	0.00	0.00
127.00	2.70	0.72	0.00	0.00
128.00	2.70	0.72	0.00	0.00
129.00	2.70	0.72	0.00	0.00
130.00	2.70	0.72	0.00	0.00
131.00	2.70	0.72	0.00	0.00
132.00	2.70	0.72	0.00	0.00
133.00	2.70	0.72	0.00	0.00
134.00	2.70	0.72	0.00	0.00
135.00	2.70	0.72	0.00	0.00
136.00	2.70	0.72	0.00	0.00
137.00	2.70	0.72	0.00	0.00
138.00	2.70	0.72	0.00	0.00
139.00	2.70	0.72	0.00	0.00
140.00	2.70	0.72	0.00	0.00
141.00	2.70	0.72	0.00	0.00
142.00	2.70	0.72	0.00	0.00
143.00	2.70	0.72	0.00	0.00
144.00	2.70	0.72	0.00	0.00
145.00	2.70	0.72	0.00	0.00
146.00	2.70	0.72	0.00	0.00
147.00	2.70	0.72	0.00	0.00
148.00	2.70	0.72	0.00	0.00
149.00	2.70	0.72	0.00	0.00
150.00	2.70	0.72	0.00	0.00
151.00	2.70	0.72	0.00	0.00
152.00	2.70	0.72	0.00	0.00
153.00	2.70	0.72	0.00	0.00
154.00	2.70	0.72	0.00	0.00
155.00	2.70	0.72	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	2.70	0.72	0.00	0.00
157.00	2.70	0.72	0.00	0.00
158.00	2.70	0.72	0.00	0.00
159.00	2.70	0.72	0.00	0.00
160.00	2.70	0.72	0.00	0.00
161.00	2.70	0.72	0.00	0.00
162.00	2.70	0.72	0.00	0.00
163.00	2.70	0.72	0.00	0.00
164.00	2.70	0.72	0.00	0.00
165.00	2.70	0.72	0.00	0.00
166.00	2.70	0.72	0.00	0.00
167.00	2.70	0.72	0.00	0.00
168.00	2.70	0.72	0.00	0.00
169.00	2.70	0.72	0.00	0.00
170.00	2.70	0.72	0.00	0.00
171.00	2.70	0.72	0.00	0.00
172.00	2.70	0.72	0.00	0.00
173.00	2.70	0.72	0.00	0.00
174.00	2.70	0.72	0.00	0.00
175.00	2.70	0.72	0.00	0.00
176.00	2.70	0.72	0.00	0.00
177.00	2.70	0.72	0.00	0.00
178.00	2.70	0.72	0.00	0.00
179.00	2.70	0.72	0.00	0.00
180.00	2.70	0.72	0.00	0.00
181.00	2.70	0.72	0.00	0.00
182.00	2.70	0.72	0.00	0.00
183.00	2.70	0.72	0.00	0.00
184.00	2.70	0.72	0.00	0.00
185.00	2.70	0.72	0.00	0.00
186.00	2.70	0.72	0.00	0.00
187.00	2.70	0.72	0.00	0.00
188.00	2.70	0.72	0.00	0.00
189.00	2.70	0.72	0.00	0.00
190.00	2.70	0.72	0.00	0.00
191.00	2.70	0.72	0.00	0.00
192.00	2.70	0.72	0.00	0.00
193.00	2.70	0.72	0.00	0.00
194.00	2.70	0.72	0.00	0.00
195.00	2.70	0.72	0.00	0.00
196.00	2.70	0.72	0.00	0.00
197.00	2.70	0.72	0.00	0.00
198.00	2.70	0.72	0.00	0.00
199.00	2.70	0.72	0.00	0.00
200.00	2.70	0.72	0.00	0.00
201.00	2.70	0.72	0.00	0.00
202.00	2.70	0.72	0.00	0.00
203.00	2.70	0.72	0.00	0.00
204.00	2.70	0.72	0.00	0.00
205.00	2.70	0.72	0.00	0.00
206.00	2.70	0.72	0.00	0.00
207.00	2.70	0.72	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	2.70	0.72	0.00	0.00
209.00	2.70	0.72	0.00	0.00
210.00	2.70	0.72	0.00	0.00
211.00	2.70	0.72	0.00	0.00
212.00	2.70	0.72	0.00	0.00
213.00	2.70	0.72	0.00	0.00
214.00	2.70	0.72	0.00	0.00
215.00	2.70	0.72	0.00	0.00
216.00	2.70	0.72	0.00	0.00
217.00	2.70	0.72	0.00	0.00
218.00	2.70	0.72	0.00	0.00
219.00	2.70	0.72	0.00	0.00
220.00	2.70	0.72	0.00	0.00
221.00	2.70	0.72	0.00	0.00
222.00	2.70	0.72	0.00	0.00
223.00	2.70	0.72	0.00	0.00
224.00	2.70	0.72	0.00	0.00
225.00	2.70	0.72	0.00	0.00
226.00	2.70	0.72	0.00	0.00
227.00	2.70	0.72	0.00	0.00
228.00	2.70	0.72	0.00	0.00
229.00	2.70	0.72	0.00	0.00
230.00	2.70	0.72	0.00	0.00
231.00	2.70	0.72	0.00	0.00
232.00	2.70	0.72	0.00	0.00
233.00	2.70	0.72	0.00	0.00
234.00	2.70	0.72	0.00	0.00
235.00	2.70	0.72	0.00	0.00
236.00	2.70	0.72	0.00	0.00
237.00	2.70	0.72	0.00	0.00
238.00	2.70	0.72	0.00	0.00
239.00	2.70	0.72	0.00	0.00
240.00	2.70	0.72	0.00	0.00
241.00	2.70	0.72	0.00	0.00
242.00	2.70	0.72	0.00	0.00
243.00	2.70	0.72	0.00	0.00
244.00	2.70	0.72	0.00	0.00
245.00	2.70	0.72	0.00	0.00
246.00	2.70	0.72	0.00	0.00
247.00	2.70	0.72	0.00	0.00
248.00	2.70	0.72	0.00	0.00
249.00	2.70	0.72	0.00	0.00
250.00	2.70	0.72	0.00	0.00
251.00	2.70	0.72	0.00	0.00
252.00	2.70	0.72	0.00	0.00
253.00	2.70	0.72	0.00	0.00
254.00	2.70	0.72	0.00	0.00
255.00	2.70	0.72	0.00	0.00
256.00	2.70	0.72	0.00	0.00
257.00	2.70	0.72	0.00	0.00
258.00	2.70	0.72	0.00	0.00
259.00	2.70	0.72	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	2.70	0.72	0.00	0.00
261.00	2.70	0.72	0.00	0.00
262.00	2.70	0.72	0.00	0.00
263.00	2.70	0.72	0.00	0.00
264.00	2.70	0.72	0.00	0.00
265.00	2.70	0.72	0.00	0.00
266.00	2.70	0.72	0.00	0.00
267.00	2.70	0.72	0.00	0.00
268.00	2.70	0.72	0.00	0.00
269.00	2.70	0.72	0.00	0.00
270.00	2.70	0.72	0.00	0.00
271.00	2.70	0.72	0.00	0.00
272.00	2.70	0.72	0.00	0.00
273.00	2.70	0.72	0.00	0.00
274.00	2.70	0.72	0.00	0.00
275.00	2.70	0.72	0.00	0.00
276.00	2.70	0.72	0.00	0.00
277.00	2.70	0.72	0.00	0.00
278.00	2.70	0.72	0.00	0.00
279.00	2.70	0.72	0.00	0.00
280.00	2.70	0.72	0.00	0.00
281.00	2.70	0.72	0.00	0.00
282.00	2.70	0.72	0.00	0.00
283.00	2.70	0.72	0.00	0.00
284.00	2.70	0.72	0.00	0.00
285.00	2.70	0.72	0.00	0.00
286.00	2.70	0.72	0.00	0.00
287.00	2.70	0.72	0.00	0.00
288.00	2.70	0.72	0.00	0.00
289.00	2.70	0.72	0.00	0.00
290.00	2.70	0.72	0.00	0.00
291.00	2.70	0.72	0.00	0.00
292.00	2.70	0.72	0.00	0.00
293.00	2.70	0.72	0.00	0.00
294.00	2.70	0.72	0.00	0.00
295.00	2.70	0.72	0.00	0.00
296.00	2.70	0.72	0.00	0.00
297.00	2.70	0.72	0.00	0.00
298.00	2.70	0.72	0.00	0.00
299.00	2.70	0.72	0.00	0.00
300.00	2.70	0.72	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Summary for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Runoff = 1.82 cfs @ 12.13 hrs, Volume= 0.132 af, Depth= 2.47"

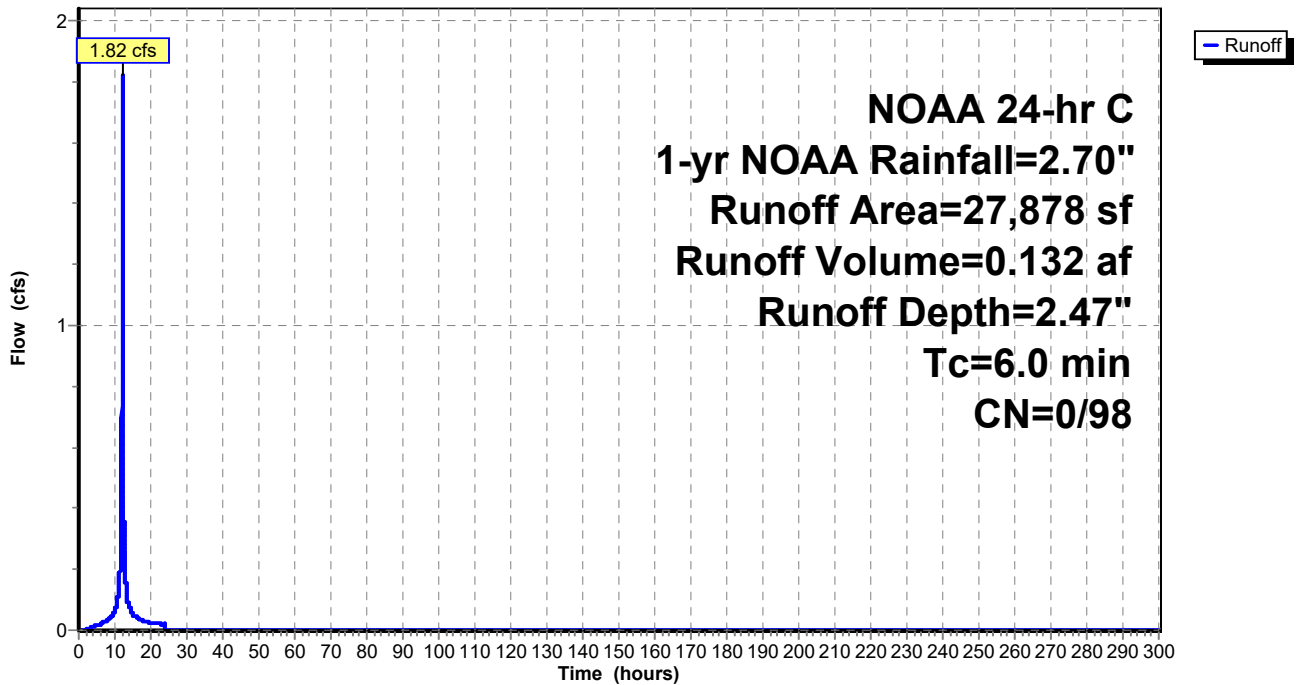
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Area (sf)	CN	Description
27,878	98	Paved roads w/curbs & sewers, HSG B
27,878	98	100.00% Impervious Area

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

Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Hydrograph



MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.03	0.00	0.00	0.00
2.00	0.06	0.00	0.00	0.00
3.00	0.10	0.00	0.01	0.01
4.00	0.13	0.00	0.03	0.01
5.00	0.17	0.00	0.05	0.02
6.00	0.21	0.00	0.08	0.02
7.00	0.26	0.00	0.12	0.03
8.00	0.32	0.00	0.16	0.03
9.00	0.39	0.00	0.22	0.04
10.00	0.49	0.00	0.31	0.07
11.00	0.65	0.00	0.45	0.13
12.00	1.29	0.00	1.07	1.01
13.00	2.05	0.00	1.83	0.16
14.00	2.21	0.00	1.98	0.08
15.00	2.31	0.00	2.08	0.05
16.00	2.38	0.00	2.15	0.04
17.00	2.44	0.00	2.21	0.04
18.00	2.49	0.00	2.26	0.03
19.00	2.53	0.00	2.30	0.03
20.00	2.57	0.00	2.34	0.02
21.00	2.60	0.00	2.37	0.02
22.00	2.64	0.00	2.41	0.02
23.00	2.67	0.00	2.44	0.02
24.00	2.70	0.00	2.47	0.02
25.00	2.70	0.00	2.47	0.00
26.00	2.70	0.00	2.47	0.00
27.00	2.70	0.00	2.47	0.00
28.00	2.70	0.00	2.47	0.00
29.00	2.70	0.00	2.47	0.00
30.00	2.70	0.00	2.47	0.00
31.00	2.70	0.00	2.47	0.00
32.00	2.70	0.00	2.47	0.00
33.00	2.70	0.00	2.47	0.00
34.00	2.70	0.00	2.47	0.00
35.00	2.70	0.00	2.47	0.00
36.00	2.70	0.00	2.47	0.00
37.00	2.70	0.00	2.47	0.00
38.00	2.70	0.00	2.47	0.00
39.00	2.70	0.00	2.47	0.00
40.00	2.70	0.00	2.47	0.00
41.00	2.70	0.00	2.47	0.00
42.00	2.70	0.00	2.47	0.00
43.00	2.70	0.00	2.47	0.00
44.00	2.70	0.00	2.47	0.00
45.00	2.70	0.00	2.47	0.00
46.00	2.70	0.00	2.47	0.00
47.00	2.70	0.00	2.47	0.00
48.00	2.70	0.00	2.47	0.00
49.00	2.70	0.00	2.47	0.00
50.00	2.70	0.00	2.47	0.00
51.00	2.70	0.00	2.47	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	2.70	0.00	2.47	0.00
53.00	2.70	0.00	2.47	0.00
54.00	2.70	0.00	2.47	0.00
55.00	2.70	0.00	2.47	0.00
56.00	2.70	0.00	2.47	0.00
57.00	2.70	0.00	2.47	0.00
58.00	2.70	0.00	2.47	0.00
59.00	2.70	0.00	2.47	0.00
60.00	2.70	0.00	2.47	0.00
61.00	2.70	0.00	2.47	0.00
62.00	2.70	0.00	2.47	0.00
63.00	2.70	0.00	2.47	0.00
64.00	2.70	0.00	2.47	0.00
65.00	2.70	0.00	2.47	0.00
66.00	2.70	0.00	2.47	0.00
67.00	2.70	0.00	2.47	0.00
68.00	2.70	0.00	2.47	0.00
69.00	2.70	0.00	2.47	0.00
70.00	2.70	0.00	2.47	0.00
71.00	2.70	0.00	2.47	0.00
72.00	2.70	0.00	2.47	0.00
73.00	2.70	0.00	2.47	0.00
74.00	2.70	0.00	2.47	0.00
75.00	2.70	0.00	2.47	0.00
76.00	2.70	0.00	2.47	0.00
77.00	2.70	0.00	2.47	0.00
78.00	2.70	0.00	2.47	0.00
79.00	2.70	0.00	2.47	0.00
80.00	2.70	0.00	2.47	0.00
81.00	2.70	0.00	2.47	0.00
82.00	2.70	0.00	2.47	0.00
83.00	2.70	0.00	2.47	0.00
84.00	2.70	0.00	2.47	0.00
85.00	2.70	0.00	2.47	0.00
86.00	2.70	0.00	2.47	0.00
87.00	2.70	0.00	2.47	0.00
88.00	2.70	0.00	2.47	0.00
89.00	2.70	0.00	2.47	0.00
90.00	2.70	0.00	2.47	0.00
91.00	2.70	0.00	2.47	0.00
92.00	2.70	0.00	2.47	0.00
93.00	2.70	0.00	2.47	0.00
94.00	2.70	0.00	2.47	0.00
95.00	2.70	0.00	2.47	0.00
96.00	2.70	0.00	2.47	0.00
97.00	2.70	0.00	2.47	0.00
98.00	2.70	0.00	2.47	0.00
99.00	2.70	0.00	2.47	0.00
100.00	2.70	0.00	2.47	0.00
101.00	2.70	0.00	2.47	0.00
102.00	2.70	0.00	2.47	0.00
103.00	2.70	0.00	2.47	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	2.70	0.00	2.47	0.00
105.00	2.70	0.00	2.47	0.00
106.00	2.70	0.00	2.47	0.00
107.00	2.70	0.00	2.47	0.00
108.00	2.70	0.00	2.47	0.00
109.00	2.70	0.00	2.47	0.00
110.00	2.70	0.00	2.47	0.00
111.00	2.70	0.00	2.47	0.00
112.00	2.70	0.00	2.47	0.00
113.00	2.70	0.00	2.47	0.00
114.00	2.70	0.00	2.47	0.00
115.00	2.70	0.00	2.47	0.00
116.00	2.70	0.00	2.47	0.00
117.00	2.70	0.00	2.47	0.00
118.00	2.70	0.00	2.47	0.00
119.00	2.70	0.00	2.47	0.00
120.00	2.70	0.00	2.47	0.00
121.00	2.70	0.00	2.47	0.00
122.00	2.70	0.00	2.47	0.00
123.00	2.70	0.00	2.47	0.00
124.00	2.70	0.00	2.47	0.00
125.00	2.70	0.00	2.47	0.00
126.00	2.70	0.00	2.47	0.00
127.00	2.70	0.00	2.47	0.00
128.00	2.70	0.00	2.47	0.00
129.00	2.70	0.00	2.47	0.00
130.00	2.70	0.00	2.47	0.00
131.00	2.70	0.00	2.47	0.00
132.00	2.70	0.00	2.47	0.00
133.00	2.70	0.00	2.47	0.00
134.00	2.70	0.00	2.47	0.00
135.00	2.70	0.00	2.47	0.00
136.00	2.70	0.00	2.47	0.00
137.00	2.70	0.00	2.47	0.00
138.00	2.70	0.00	2.47	0.00
139.00	2.70	0.00	2.47	0.00
140.00	2.70	0.00	2.47	0.00
141.00	2.70	0.00	2.47	0.00
142.00	2.70	0.00	2.47	0.00
143.00	2.70	0.00	2.47	0.00
144.00	2.70	0.00	2.47	0.00
145.00	2.70	0.00	2.47	0.00
146.00	2.70	0.00	2.47	0.00
147.00	2.70	0.00	2.47	0.00
148.00	2.70	0.00	2.47	0.00
149.00	2.70	0.00	2.47	0.00
150.00	2.70	0.00	2.47	0.00
151.00	2.70	0.00	2.47	0.00
152.00	2.70	0.00	2.47	0.00
153.00	2.70	0.00	2.47	0.00
154.00	2.70	0.00	2.47	0.00
155.00	2.70	0.00	2.47	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	2.70	0.00	2.47	0.00
157.00	2.70	0.00	2.47	0.00
158.00	2.70	0.00	2.47	0.00
159.00	2.70	0.00	2.47	0.00
160.00	2.70	0.00	2.47	0.00
161.00	2.70	0.00	2.47	0.00
162.00	2.70	0.00	2.47	0.00
163.00	2.70	0.00	2.47	0.00
164.00	2.70	0.00	2.47	0.00
165.00	2.70	0.00	2.47	0.00
166.00	2.70	0.00	2.47	0.00
167.00	2.70	0.00	2.47	0.00
168.00	2.70	0.00	2.47	0.00
169.00	2.70	0.00	2.47	0.00
170.00	2.70	0.00	2.47	0.00
171.00	2.70	0.00	2.47	0.00
172.00	2.70	0.00	2.47	0.00
173.00	2.70	0.00	2.47	0.00
174.00	2.70	0.00	2.47	0.00
175.00	2.70	0.00	2.47	0.00
176.00	2.70	0.00	2.47	0.00
177.00	2.70	0.00	2.47	0.00
178.00	2.70	0.00	2.47	0.00
179.00	2.70	0.00	2.47	0.00
180.00	2.70	0.00	2.47	0.00
181.00	2.70	0.00	2.47	0.00
182.00	2.70	0.00	2.47	0.00
183.00	2.70	0.00	2.47	0.00
184.00	2.70	0.00	2.47	0.00
185.00	2.70	0.00	2.47	0.00
186.00	2.70	0.00	2.47	0.00
187.00	2.70	0.00	2.47	0.00
188.00	2.70	0.00	2.47	0.00
189.00	2.70	0.00	2.47	0.00
190.00	2.70	0.00	2.47	0.00
191.00	2.70	0.00	2.47	0.00
192.00	2.70	0.00	2.47	0.00
193.00	2.70	0.00	2.47	0.00
194.00	2.70	0.00	2.47	0.00
195.00	2.70	0.00	2.47	0.00
196.00	2.70	0.00	2.47	0.00
197.00	2.70	0.00	2.47	0.00
198.00	2.70	0.00	2.47	0.00
199.00	2.70	0.00	2.47	0.00
200.00	2.70	0.00	2.47	0.00
201.00	2.70	0.00	2.47	0.00
202.00	2.70	0.00	2.47	0.00
203.00	2.70	0.00	2.47	0.00
204.00	2.70	0.00	2.47	0.00
205.00	2.70	0.00	2.47	0.00
206.00	2.70	0.00	2.47	0.00
207.00	2.70	0.00	2.47	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	2.70	0.00	2.47	0.00
209.00	2.70	0.00	2.47	0.00
210.00	2.70	0.00	2.47	0.00
211.00	2.70	0.00	2.47	0.00
212.00	2.70	0.00	2.47	0.00
213.00	2.70	0.00	2.47	0.00
214.00	2.70	0.00	2.47	0.00
215.00	2.70	0.00	2.47	0.00
216.00	2.70	0.00	2.47	0.00
217.00	2.70	0.00	2.47	0.00
218.00	2.70	0.00	2.47	0.00
219.00	2.70	0.00	2.47	0.00
220.00	2.70	0.00	2.47	0.00
221.00	2.70	0.00	2.47	0.00
222.00	2.70	0.00	2.47	0.00
223.00	2.70	0.00	2.47	0.00
224.00	2.70	0.00	2.47	0.00
225.00	2.70	0.00	2.47	0.00
226.00	2.70	0.00	2.47	0.00
227.00	2.70	0.00	2.47	0.00
228.00	2.70	0.00	2.47	0.00
229.00	2.70	0.00	2.47	0.00
230.00	2.70	0.00	2.47	0.00
231.00	2.70	0.00	2.47	0.00
232.00	2.70	0.00	2.47	0.00
233.00	2.70	0.00	2.47	0.00
234.00	2.70	0.00	2.47	0.00
235.00	2.70	0.00	2.47	0.00
236.00	2.70	0.00	2.47	0.00
237.00	2.70	0.00	2.47	0.00
238.00	2.70	0.00	2.47	0.00
239.00	2.70	0.00	2.47	0.00
240.00	2.70	0.00	2.47	0.00
241.00	2.70	0.00	2.47	0.00
242.00	2.70	0.00	2.47	0.00
243.00	2.70	0.00	2.47	0.00
244.00	2.70	0.00	2.47	0.00
245.00	2.70	0.00	2.47	0.00
246.00	2.70	0.00	2.47	0.00
247.00	2.70	0.00	2.47	0.00
248.00	2.70	0.00	2.47	0.00
249.00	2.70	0.00	2.47	0.00
250.00	2.70	0.00	2.47	0.00
251.00	2.70	0.00	2.47	0.00
252.00	2.70	0.00	2.47	0.00
253.00	2.70	0.00	2.47	0.00
254.00	2.70	0.00	2.47	0.00
255.00	2.70	0.00	2.47	0.00
256.00	2.70	0.00	2.47	0.00
257.00	2.70	0.00	2.47	0.00
258.00	2.70	0.00	2.47	0.00
259.00	2.70	0.00	2.47	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	2.70	0.00	2.47	0.00
261.00	2.70	0.00	2.47	0.00
262.00	2.70	0.00	2.47	0.00
263.00	2.70	0.00	2.47	0.00
264.00	2.70	0.00	2.47	0.00
265.00	2.70	0.00	2.47	0.00
266.00	2.70	0.00	2.47	0.00
267.00	2.70	0.00	2.47	0.00
268.00	2.70	0.00	2.47	0.00
269.00	2.70	0.00	2.47	0.00
270.00	2.70	0.00	2.47	0.00
271.00	2.70	0.00	2.47	0.00
272.00	2.70	0.00	2.47	0.00
273.00	2.70	0.00	2.47	0.00
274.00	2.70	0.00	2.47	0.00
275.00	2.70	0.00	2.47	0.00
276.00	2.70	0.00	2.47	0.00
277.00	2.70	0.00	2.47	0.00
278.00	2.70	0.00	2.47	0.00
279.00	2.70	0.00	2.47	0.00
280.00	2.70	0.00	2.47	0.00
281.00	2.70	0.00	2.47	0.00
282.00	2.70	0.00	2.47	0.00
283.00	2.70	0.00	2.47	0.00
284.00	2.70	0.00	2.47	0.00
285.00	2.70	0.00	2.47	0.00
286.00	2.70	0.00	2.47	0.00
287.00	2.70	0.00	2.47	0.00
288.00	2.70	0.00	2.47	0.00
289.00	2.70	0.00	2.47	0.00
290.00	2.70	0.00	2.47	0.00
291.00	2.70	0.00	2.47	0.00
292.00	2.70	0.00	2.47	0.00
293.00	2.70	0.00	2.47	0.00
294.00	2.70	0.00	2.47	0.00
295.00	2.70	0.00	2.47	0.00
296.00	2.70	0.00	2.47	0.00
297.00	2.70	0.00	2.47	0.00
298.00	2.70	0.00	2.47	0.00
299.00	2.70	0.00	2.47	0.00
300.00	2.70	0.00	2.47	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Summary for Pond 1P: Managed Release Pemeable Pavement

50% IWS routing modeled with a 0.30*50% = 0.15 void space

Inflow Area =	0.800 ac, 80.00% Impervious, Inflow Depth = 2.17"	for 1-yr NOAA event
Inflow =	2.03 cfs @ 12.13 hrs, Volume=	0.145 af
Outflow =	0.19 cfs @ 12.99 hrs, Volume=	0.142 af, Atten= 91%, Lag= 51.5 min
Discarded =	0.00 cfs @ 12.99 hrs, Volume=	0.020 af
Primary =	0.01 cfs @ 12.99 hrs, Volume=	0.043 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af
Tertiary =	0.18 cfs @ 12.99 hrs, Volume=	0.079 af

Routing by Stor-Ind method, Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 Peak Elev= -0.82' @ 12.99 hrs Surf.Area= 3,049 sf Storage= 3,882 cf

Plug-Flow detention time= 1,894.7 min calculated for 0.142 af (98% of inflow)
 Center-of-Mass det. time= 1,882.7 min (2,652.9 - 770.2)

Volume	Invert	Avail.Storage	Storage Description
#1	-4.50'	4,884 cf	Storage bed (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
-4.50	3,049	0.0	0	0
-3.51	3,049	20.0	604	604
-2.00	3,049	40.0	1,842	2,445
0.00	3,049	40.0	2,439	4,884

Device	Routing	Invert	Outlet Devices
#1	Primary	-3.50'	0.5" Vert. Orifice/Grate C= 0.600
#2	Secondary	-0.50'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#3	Discarded	-4.50'	0.010 in/hr Infiltration (minimal) over Horizontal area Conductivity to Groundwater Elevation = -10.00'
#4	Tertiary	-2.10'	2.5" Vert. Orifice/Grate C= 0.600

Discarded OutFlow Max=0.00 cfs @ 12.99 hrs HW=-0.82' (Free Discharge)
 ↑**3=Infiltration (minimal)** (Controls 0.00 cfs)

Primary OutFlow Max=0.01 cfs @ 12.99 hrs HW=-0.82' (Free Discharge)
 ↑**1=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.85 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=-4.50' (Free Discharge)
 ↑**2=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Tertiary OutFlow Max=0.18 cfs @ 12.99 hrs HW=-0.82' (Free Discharge)
 ↑**4=Orifice/Grate** (Orifice Controls 0.18 cfs @ 5.22 fps)

MRC Example 3

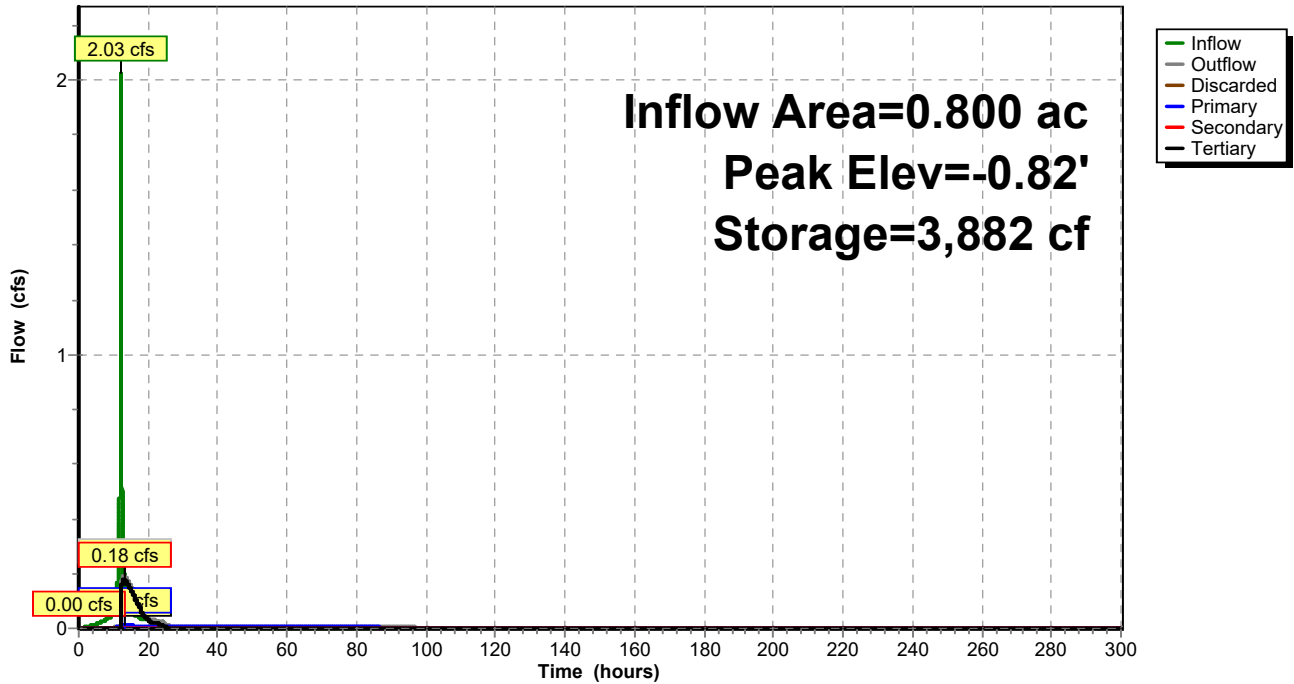
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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

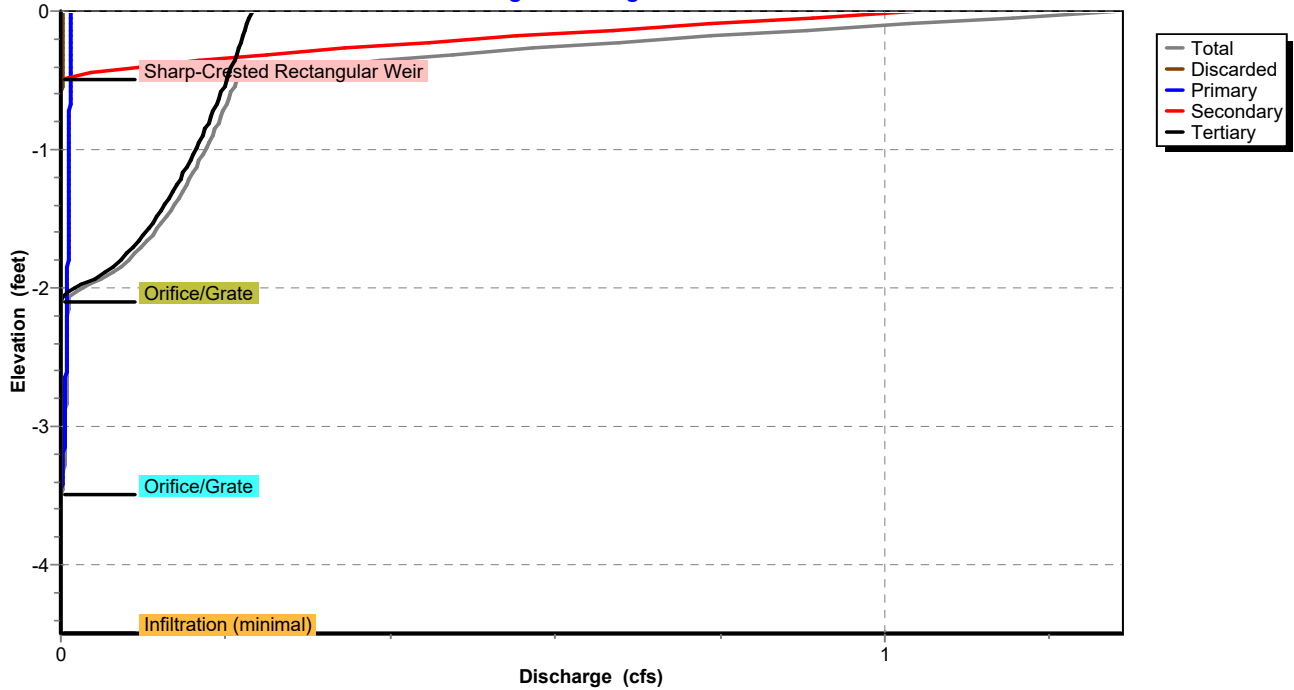
Pond 1P: Managed Release Pemeable Pavement

Hydrograph



Pond 1P: Managed Release Pemeable Pavement

Stage-Discharge



MRC Example 3

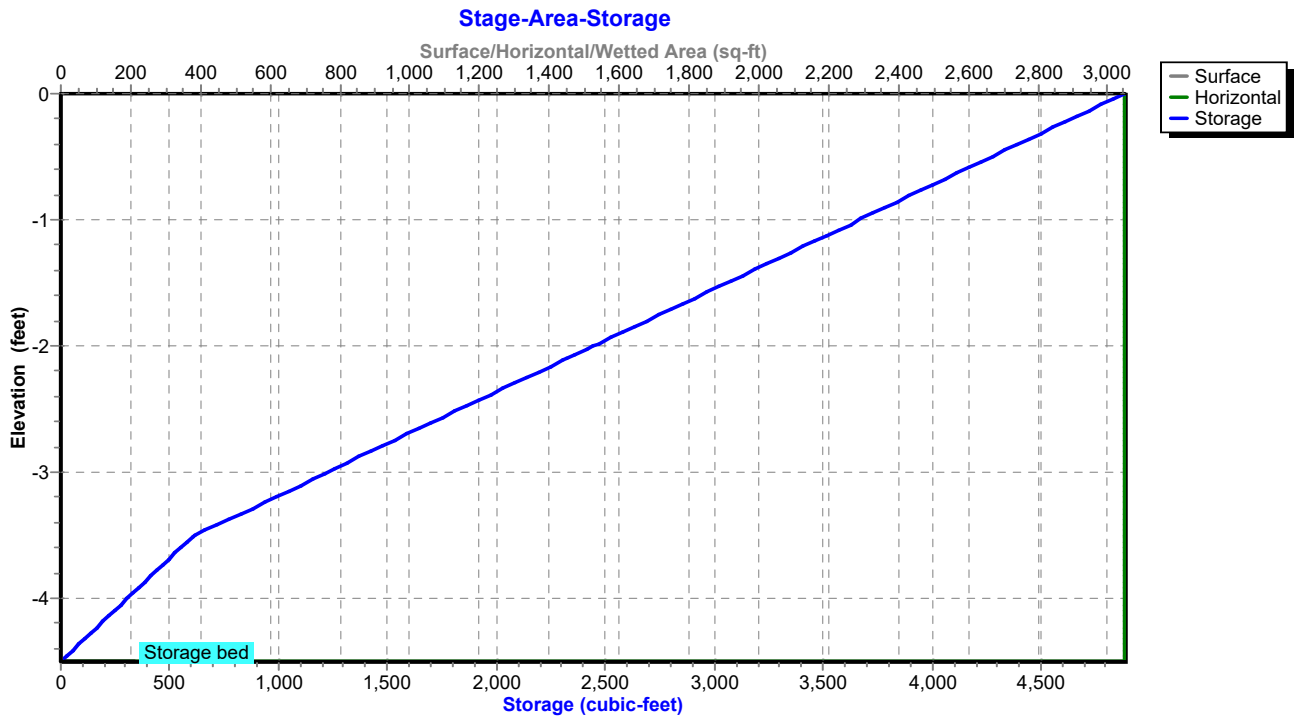
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NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Pond 1P: Managed Release Pemeable Pavement



MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
0.00	0.00	0	-4.50	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0	-4.50	0.00	0.00	0.00	0.00	0.00
2.00	0.00	3	-4.49	0.00	0.00	0.00	0.00	0.00
3.00	0.01	23	-4.46	0.00	0.00	0.00	0.00	0.00
4.00	0.01	58	-4.41	0.00	0.00	0.00	0.00	0.00
5.00	0.02	107	-4.32	0.00	0.00	0.00	0.00	0.00
6.00	0.02	169	-4.22	0.00	0.00	0.00	0.00	0.00
7.00	0.03	249	-4.09	0.00	0.00	0.00	0.00	0.00
8.00	0.03	355	-3.92	0.00	0.00	0.00	0.00	0.00
9.00	0.04	489	-3.70	0.00	0.00	0.00	0.00	0.00
10.00	0.07	679	-3.45	0.00	0.00	0.00	0.00	0.00
11.00	0.13	983	-3.20	0.00	0.00	0.00	0.00	0.00
12.00	1.09	2,126	-2.26	0.01	0.00	0.01	0.00	0.00
13.00	0.19	3,881	-0.82	0.19	0.00	0.01	0.00	0.18
14.00	0.09	3,664	-1.00	0.18	0.00	0.01	0.00	0.16
15.00	0.06	3,346	-1.26	0.15	0.00	0.01	0.00	0.14
16.00	0.05	3,042	-1.51	0.12	0.00	0.01	0.00	0.11
17.00	0.04	2,806	-1.70	0.10	0.00	0.01	0.00	0.09
18.00	0.03	2,633	-1.85	0.07	0.00	0.01	0.00	0.06
19.00	0.03	2,529	-1.93	0.05	0.00	0.01	0.00	0.04
20.00	0.03	2,483	-1.97	0.04	0.00	0.01	0.00	0.03
21.00	0.03	2,462	-1.99	0.03	0.00	0.01	0.00	0.02
22.00	0.02	2,450	-2.00	0.03	0.00	0.01	0.00	0.02
23.00	0.02	2,441	-2.00	0.03	0.00	0.01	0.00	0.02
24.00	0.02	2,433	-2.01	0.02	0.00	0.01	0.00	0.01
25.00	0.00	2,376	-2.06	0.01	0.00	0.01	0.00	0.00
26.00	0.00	2,338	-2.09	0.01	0.00	0.01	0.00	0.00
27.00	0.00	2,306	-2.11	0.01	0.00	0.01	0.00	0.00
28.00	0.00	2,275	-2.14	0.01	0.00	0.01	0.00	0.00
29.00	0.00	2,244	-2.17	0.01	0.00	0.01	0.00	0.00
30.00	0.00	2,213	-2.19	0.01	0.00	0.01	0.00	0.00
31.00	0.00	2,183	-2.22	0.01	0.00	0.01	0.00	0.00
32.00	0.00	2,153	-2.24	0.01	0.00	0.01	0.00	0.00
33.00	0.00	2,123	-2.26	0.01	0.00	0.01	0.00	0.00
34.00	0.00	2,094	-2.29	0.01	0.00	0.01	0.00	0.00
35.00	0.00	2,064	-2.31	0.01	0.00	0.01	0.00	0.00
36.00	0.00	2,036	-2.34	0.01	0.00	0.01	0.00	0.00
37.00	0.00	2,007	-2.36	0.01	0.00	0.01	0.00	0.00
38.00	0.00	1,978	-2.38	0.01	0.00	0.01	0.00	0.00
39.00	0.00	1,950	-2.41	0.01	0.00	0.01	0.00	0.00
40.00	0.00	1,922	-2.43	0.01	0.00	0.01	0.00	0.00
41.00	0.00	1,895	-2.45	0.01	0.00	0.01	0.00	0.00
42.00	0.00	1,868	-2.47	0.01	0.00	0.01	0.00	0.00
43.00	0.00	1,841	-2.50	0.01	0.00	0.01	0.00	0.00
44.00	0.00	1,814	-2.52	0.01	0.00	0.01	0.00	0.00
45.00	0.00	1,787	-2.54	0.01	0.00	0.01	0.00	0.00
46.00	0.00	1,761	-2.56	0.01	0.00	0.01	0.00	0.00
47.00	0.00	1,735	-2.58	0.01	0.00	0.01	0.00	0.00
48.00	0.00	1,709	-2.60	0.01	0.00	0.01	0.00	0.00
49.00	0.00	1,684	-2.62	0.01	0.00	0.01	0.00	0.00
50.00	0.00	1,659	-2.64	0.01	0.00	0.01	0.00	0.00
51.00	0.00	1,634	-2.67	0.01	0.00	0.01	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
52.00	0.00	1,609	-2.69	0.01	0.00	0.01	0.00	0.00
53.00	0.00	1,585	-2.71	0.01	0.00	0.01	0.00	0.00
54.00	0.00	1,561	-2.72	0.01	0.00	0.01	0.00	0.00
55.00	0.00	1,537	-2.74	0.01	0.00	0.01	0.00	0.00
56.00	0.00	1,514	-2.76	0.01	0.00	0.01	0.00	0.00
57.00	0.00	1,491	-2.78	0.01	0.00	0.01	0.00	0.00
58.00	0.00	1,468	-2.80	0.01	0.00	0.01	0.00	0.00
59.00	0.00	1,445	-2.82	0.01	0.00	0.01	0.00	0.00
60.00	0.00	1,423	-2.84	0.01	0.00	0.01	0.00	0.00
61.00	0.00	1,401	-2.86	0.01	0.00	0.01	0.00	0.00
62.00	0.00	1,379	-2.87	0.01	0.00	0.01	0.00	0.00
63.00	0.00	1,357	-2.89	0.01	0.00	0.01	0.00	0.00
64.00	0.00	1,336	-2.91	0.01	0.00	0.00	0.00	0.00
65.00	0.00	1,315	-2.93	0.01	0.00	0.00	0.00	0.00
66.00	0.00	1,294	-2.94	0.01	0.00	0.00	0.00	0.00
67.00	0.00	1,274	-2.96	0.01	0.00	0.00	0.00	0.00
68.00	0.00	1,254	-2.98	0.01	0.00	0.00	0.00	0.00
69.00	0.00	1,234	-2.99	0.01	0.00	0.00	0.00	0.00
70.00	0.00	1,214	-3.01	0.01	0.00	0.00	0.00	0.00
71.00	0.00	1,195	-3.03	0.01	0.00	0.00	0.00	0.00
72.00	0.00	1,176	-3.04	0.01	0.00	0.00	0.00	0.00
73.00	0.00	1,157	-3.06	0.01	0.00	0.00	0.00	0.00
74.00	0.00	1,139	-3.07	0.01	0.00	0.00	0.00	0.00
75.00	0.00	1,121	-3.09	0.01	0.00	0.00	0.00	0.00
76.00	0.00	1,103	-3.10	0.00	0.00	0.00	0.00	0.00
77.00	0.00	1,085	-3.12	0.00	0.00	0.00	0.00	0.00
78.00	0.00	1,068	-3.13	0.00	0.00	0.00	0.00	0.00
79.00	0.00	1,051	-3.14	0.00	0.00	0.00	0.00	0.00
80.00	0.00	1,034	-3.16	0.00	0.00	0.00	0.00	0.00
81.00	0.00	1,018	-3.17	0.00	0.00	0.00	0.00	0.00
82.00	0.00	1,002	-3.18	0.00	0.00	0.00	0.00	0.00
83.00	0.00	986	-3.20	0.00	0.00	0.00	0.00	0.00
84.00	0.00	970	-3.21	0.00	0.00	0.00	0.00	0.00
85.00	0.00	955	-3.22	0.00	0.00	0.00	0.00	0.00
86.00	0.00	940	-3.23	0.00	0.00	0.00	0.00	0.00
87.00	0.00	926	-3.25	0.00	0.00	0.00	0.00	0.00
88.00	0.00	911	-3.26	0.00	0.00	0.00	0.00	0.00
89.00	0.00	897	-3.27	0.00	0.00	0.00	0.00	0.00
90.00	0.00	883	-3.28	0.00	0.00	0.00	0.00	0.00
91.00	0.00	870	-3.29	0.00	0.00	0.00	0.00	0.00
92.00	0.00	857	-3.30	0.00	0.00	0.00	0.00	0.00
93.00	0.00	844	-3.31	0.00	0.00	0.00	0.00	0.00
94.00	0.00	831	-3.32	0.00	0.00	0.00	0.00	0.00
95.00	0.00	819	-3.33	0.00	0.00	0.00	0.00	0.00
96.00	0.00	807	-3.34	0.00	0.00	0.00	0.00	0.00
97.00	0.00	795	-3.35	0.00	0.00	0.00	0.00	0.00
98.00	0.00	784	-3.36	0.00	0.00	0.00	0.00	0.00
99.00	0.00	773	-3.37	0.00	0.00	0.00	0.00	0.00
100.00	0.00	763	-3.38	0.00	0.00	0.00	0.00	0.00
101.00	0.00	752	-3.39	0.00	0.00	0.00	0.00	0.00
102.00	0.00	742	-3.40	0.00	0.00	0.00	0.00	0.00
103.00	0.00	733	-3.40	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
104.00	0.00	723	-3.41	0.00	0.00	0.00	0.00	0.00
105.00	0.00	714	-3.42	0.00	0.00	0.00	0.00	0.00
106.00	0.00	706	-3.43	0.00	0.00	0.00	0.00	0.00
107.00	0.00	698	-3.43	0.00	0.00	0.00	0.00	0.00
108.00	0.00	690	-3.44	0.00	0.00	0.00	0.00	0.00
109.00	0.00	683	-3.45	0.00	0.00	0.00	0.00	0.00
110.00	0.00	676	-3.45	0.00	0.00	0.00	0.00	0.00
111.00	0.00	669	-3.46	0.00	0.00	0.00	0.00	0.00
112.00	0.00	663	-3.46	0.00	0.00	0.00	0.00	0.00
113.00	0.00	657	-3.47	0.00	0.00	0.00	0.00	0.00
114.00	0.00	651	-3.47	0.00	0.00	0.00	0.00	0.00
115.00	0.00	646	-3.48	0.00	0.00	0.00	0.00	0.00
116.00	0.00	641	-3.48	0.00	0.00	0.00	0.00	0.00
117.00	0.00	637	-3.48	0.00	0.00	0.00	0.00	0.00
118.00	0.00	633	-3.49	0.00	0.00	0.00	0.00	0.00
119.00	0.00	629	-3.49	0.00	0.00	0.00	0.00	0.00
120.00	0.00	625	-3.49	0.00	0.00	0.00	0.00	0.00
121.00	0.00	621	-3.50	0.00	0.00	0.00	0.00	0.00
122.00	0.00	618	-3.50	0.00	0.00	0.00	0.00	0.00
123.00	0.00	615	-3.50	0.00	0.00	0.00	0.00	0.00
124.00	0.00	612	-3.50	0.00	0.00	0.00	0.00	0.00
125.00	0.00	609	-3.51	0.00	0.00	0.00	0.00	0.00
126.00	0.00	606	-3.51	0.00	0.00	0.00	0.00	0.00
127.00	0.00	603	-3.51	0.00	0.00	0.00	0.00	0.00
128.00	0.00	600	-3.52	0.00	0.00	0.00	0.00	0.00
129.00	0.00	597	-3.52	0.00	0.00	0.00	0.00	0.00
130.00	0.00	594	-3.53	0.00	0.00	0.00	0.00	0.00
131.00	0.00	591	-3.53	0.00	0.00	0.00	0.00	0.00
132.00	0.00	588	-3.54	0.00	0.00	0.00	0.00	0.00
133.00	0.00	585	-3.54	0.00	0.00	0.00	0.00	0.00
134.00	0.00	582	-3.55	0.00	0.00	0.00	0.00	0.00
135.00	0.00	579	-3.55	0.00	0.00	0.00	0.00	0.00
136.00	0.00	576	-3.56	0.00	0.00	0.00	0.00	0.00
137.00	0.00	573	-3.56	0.00	0.00	0.00	0.00	0.00
138.00	0.00	570	-3.56	0.00	0.00	0.00	0.00	0.00
139.00	0.00	567	-3.57	0.00	0.00	0.00	0.00	0.00
140.00	0.00	564	-3.57	0.00	0.00	0.00	0.00	0.00
141.00	0.00	561	-3.58	0.00	0.00	0.00	0.00	0.00
142.00	0.00	558	-3.58	0.00	0.00	0.00	0.00	0.00
143.00	0.00	555	-3.59	0.00	0.00	0.00	0.00	0.00
144.00	0.00	553	-3.59	0.00	0.00	0.00	0.00	0.00
145.00	0.00	550	-3.60	0.00	0.00	0.00	0.00	0.00
146.00	0.00	547	-3.60	0.00	0.00	0.00	0.00	0.00
147.00	0.00	544	-3.61	0.00	0.00	0.00	0.00	0.00
148.00	0.00	541	-3.61	0.00	0.00	0.00	0.00	0.00
149.00	0.00	538	-3.62	0.00	0.00	0.00	0.00	0.00
150.00	0.00	535	-3.62	0.00	0.00	0.00	0.00	0.00
151.00	0.00	532	-3.63	0.00	0.00	0.00	0.00	0.00
152.00	0.00	529	-3.63	0.00	0.00	0.00	0.00	0.00
153.00	0.00	526	-3.64	0.00	0.00	0.00	0.00	0.00
154.00	0.00	523	-3.64	0.00	0.00	0.00	0.00	0.00
155.00	0.00	520	-3.65	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
156.00	0.00	517	-3.65	0.00	0.00	0.00	0.00	0.00
157.00	0.00	514	-3.66	0.00	0.00	0.00	0.00	0.00
158.00	0.00	511	-3.66	0.00	0.00	0.00	0.00	0.00
159.00	0.00	508	-3.67	0.00	0.00	0.00	0.00	0.00
160.00	0.00	505	-3.67	0.00	0.00	0.00	0.00	0.00
161.00	0.00	503	-3.68	0.00	0.00	0.00	0.00	0.00
162.00	0.00	500	-3.68	0.00	0.00	0.00	0.00	0.00
163.00	0.00	497	-3.69	0.00	0.00	0.00	0.00	0.00
164.00	0.00	494	-3.69	0.00	0.00	0.00	0.00	0.00
165.00	0.00	491	-3.70	0.00	0.00	0.00	0.00	0.00
166.00	0.00	488	-3.70	0.00	0.00	0.00	0.00	0.00
167.00	0.00	485	-3.70	0.00	0.00	0.00	0.00	0.00
168.00	0.00	482	-3.71	0.00	0.00	0.00	0.00	0.00
169.00	0.00	479	-3.71	0.00	0.00	0.00	0.00	0.00
170.00	0.00	476	-3.72	0.00	0.00	0.00	0.00	0.00
171.00	0.00	473	-3.72	0.00	0.00	0.00	0.00	0.00
172.00	0.00	471	-3.73	0.00	0.00	0.00	0.00	0.00
173.00	0.00	468	-3.73	0.00	0.00	0.00	0.00	0.00
174.00	0.00	465	-3.74	0.00	0.00	0.00	0.00	0.00
175.00	0.00	462	-3.74	0.00	0.00	0.00	0.00	0.00
176.00	0.00	459	-3.75	0.00	0.00	0.00	0.00	0.00
177.00	0.00	456	-3.75	0.00	0.00	0.00	0.00	0.00
178.00	0.00	453	-3.76	0.00	0.00	0.00	0.00	0.00
179.00	0.00	450	-3.76	0.00	0.00	0.00	0.00	0.00
180.00	0.00	447	-3.77	0.00	0.00	0.00	0.00	0.00
181.00	0.00	445	-3.77	0.00	0.00	0.00	0.00	0.00
182.00	0.00	442	-3.78	0.00	0.00	0.00	0.00	0.00
183.00	0.00	439	-3.78	0.00	0.00	0.00	0.00	0.00
184.00	0.00	436	-3.79	0.00	0.00	0.00	0.00	0.00
185.00	0.00	433	-3.79	0.00	0.00	0.00	0.00	0.00
186.00	0.00	430	-3.79	0.00	0.00	0.00	0.00	0.00
187.00	0.00	427	-3.80	0.00	0.00	0.00	0.00	0.00
188.00	0.00	424	-3.80	0.00	0.00	0.00	0.00	0.00
189.00	0.00	422	-3.81	0.00	0.00	0.00	0.00	0.00
190.00	0.00	419	-3.81	0.00	0.00	0.00	0.00	0.00
191.00	0.00	416	-3.82	0.00	0.00	0.00	0.00	0.00
192.00	0.00	413	-3.82	0.00	0.00	0.00	0.00	0.00
193.00	0.00	410	-3.83	0.00	0.00	0.00	0.00	0.00
194.00	0.00	407	-3.83	0.00	0.00	0.00	0.00	0.00
195.00	0.00	404	-3.84	0.00	0.00	0.00	0.00	0.00
196.00	0.00	402	-3.84	0.00	0.00	0.00	0.00	0.00
197.00	0.00	399	-3.85	0.00	0.00	0.00	0.00	0.00
198.00	0.00	396	-3.85	0.00	0.00	0.00	0.00	0.00
199.00	0.00	393	-3.86	0.00	0.00	0.00	0.00	0.00
200.00	0.00	390	-3.86	0.00	0.00	0.00	0.00	0.00
201.00	0.00	387	-3.86	0.00	0.00	0.00	0.00	0.00
202.00	0.00	385	-3.87	0.00	0.00	0.00	0.00	0.00
203.00	0.00	382	-3.87	0.00	0.00	0.00	0.00	0.00
204.00	0.00	379	-3.88	0.00	0.00	0.00	0.00	0.00
205.00	0.00	376	-3.88	0.00	0.00	0.00	0.00	0.00
206.00	0.00	373	-3.89	0.00	0.00	0.00	0.00	0.00
207.00	0.00	370	-3.89	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
208.00	0.00	368	-3.90	0.00	0.00	0.00	0.00	0.00
209.00	0.00	365	-3.90	0.00	0.00	0.00	0.00	0.00
210.00	0.00	362	-3.91	0.00	0.00	0.00	0.00	0.00
211.00	0.00	359	-3.91	0.00	0.00	0.00	0.00	0.00
212.00	0.00	356	-3.92	0.00	0.00	0.00	0.00	0.00
213.00	0.00	354	-3.92	0.00	0.00	0.00	0.00	0.00
214.00	0.00	351	-3.92	0.00	0.00	0.00	0.00	0.00
215.00	0.00	348	-3.93	0.00	0.00	0.00	0.00	0.00
216.00	0.00	345	-3.93	0.00	0.00	0.00	0.00	0.00
217.00	0.00	342	-3.94	0.00	0.00	0.00	0.00	0.00
218.00	0.00	340	-3.94	0.00	0.00	0.00	0.00	0.00
219.00	0.00	337	-3.95	0.00	0.00	0.00	0.00	0.00
220.00	0.00	334	-3.95	0.00	0.00	0.00	0.00	0.00
221.00	0.00	331	-3.96	0.00	0.00	0.00	0.00	0.00
222.00	0.00	328	-3.96	0.00	0.00	0.00	0.00	0.00
223.00	0.00	326	-3.97	0.00	0.00	0.00	0.00	0.00
224.00	0.00	323	-3.97	0.00	0.00	0.00	0.00	0.00
225.00	0.00	320	-3.98	0.00	0.00	0.00	0.00	0.00
226.00	0.00	317	-3.98	0.00	0.00	0.00	0.00	0.00
227.00	0.00	314	-3.98	0.00	0.00	0.00	0.00	0.00
228.00	0.00	312	-3.99	0.00	0.00	0.00	0.00	0.00
229.00	0.00	309	-3.99	0.00	0.00	0.00	0.00	0.00
230.00	0.00	306	-4.00	0.00	0.00	0.00	0.00	0.00
231.00	0.00	303	-4.00	0.00	0.00	0.00	0.00	0.00
232.00	0.00	301	-4.01	0.00	0.00	0.00	0.00	0.00
233.00	0.00	298	-4.01	0.00	0.00	0.00	0.00	0.00
234.00	0.00	295	-4.02	0.00	0.00	0.00	0.00	0.00
235.00	0.00	292	-4.02	0.00	0.00	0.00	0.00	0.00
236.00	0.00	290	-4.03	0.00	0.00	0.00	0.00	0.00
237.00	0.00	287	-4.03	0.00	0.00	0.00	0.00	0.00
238.00	0.00	284	-4.03	0.00	0.00	0.00	0.00	0.00
239.00	0.00	281	-4.04	0.00	0.00	0.00	0.00	0.00
240.00	0.00	278	-4.04	0.00	0.00	0.00	0.00	0.00
241.00	0.00	276	-4.05	0.00	0.00	0.00	0.00	0.00
242.00	0.00	273	-4.05	0.00	0.00	0.00	0.00	0.00
243.00	0.00	270	-4.06	0.00	0.00	0.00	0.00	0.00
244.00	0.00	268	-4.06	0.00	0.00	0.00	0.00	0.00
245.00	0.00	265	-4.07	0.00	0.00	0.00	0.00	0.00
246.00	0.00	262	-4.07	0.00	0.00	0.00	0.00	0.00
247.00	0.00	259	-4.07	0.00	0.00	0.00	0.00	0.00
248.00	0.00	257	-4.08	0.00	0.00	0.00	0.00	0.00
249.00	0.00	254	-4.08	0.00	0.00	0.00	0.00	0.00
250.00	0.00	251	-4.09	0.00	0.00	0.00	0.00	0.00
251.00	0.00	248	-4.09	0.00	0.00	0.00	0.00	0.00
252.00	0.00	246	-4.10	0.00	0.00	0.00	0.00	0.00
253.00	0.00	243	-4.10	0.00	0.00	0.00	0.00	0.00
254.00	0.00	240	-4.11	0.00	0.00	0.00	0.00	0.00
255.00	0.00	237	-4.11	0.00	0.00	0.00	0.00	0.00
256.00	0.00	235	-4.12	0.00	0.00	0.00	0.00	0.00
257.00	0.00	232	-4.12	0.00	0.00	0.00	0.00	0.00
258.00	0.00	229	-4.12	0.00	0.00	0.00	0.00	0.00
259.00	0.00	227	-4.13	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 1-yr NOAA Rainfall=2.70"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
260.00	0.00	224	-4.13	0.00	0.00	0.00	0.00	0.00
261.00	0.00	221	-4.14	0.00	0.00	0.00	0.00	0.00
262.00	0.00	218	-4.14	0.00	0.00	0.00	0.00	0.00
263.00	0.00	216	-4.15	0.00	0.00	0.00	0.00	0.00
264.00	0.00	213	-4.15	0.00	0.00	0.00	0.00	0.00
265.00	0.00	210	-4.16	0.00	0.00	0.00	0.00	0.00
266.00	0.00	208	-4.16	0.00	0.00	0.00	0.00	0.00
267.00	0.00	205	-4.16	0.00	0.00	0.00	0.00	0.00
268.00	0.00	202	-4.17	0.00	0.00	0.00	0.00	0.00
269.00	0.00	200	-4.17	0.00	0.00	0.00	0.00	0.00
270.00	0.00	197	-4.18	0.00	0.00	0.00	0.00	0.00
271.00	0.00	194	-4.18	0.00	0.00	0.00	0.00	0.00
272.00	0.00	191	-4.19	0.00	0.00	0.00	0.00	0.00
273.00	0.00	189	-4.19	0.00	0.00	0.00	0.00	0.00
274.00	0.00	186	-4.19	0.00	0.00	0.00	0.00	0.00
275.00	0.00	183	-4.20	0.00	0.00	0.00	0.00	0.00
276.00	0.00	181	-4.20	0.00	0.00	0.00	0.00	0.00
277.00	0.00	178	-4.21	0.00	0.00	0.00	0.00	0.00
278.00	0.00	175	-4.21	0.00	0.00	0.00	0.00	0.00
279.00	0.00	173	-4.22	0.00	0.00	0.00	0.00	0.00
280.00	0.00	170	-4.22	0.00	0.00	0.00	0.00	0.00
281.00	0.00	167	-4.23	0.00	0.00	0.00	0.00	0.00
282.00	0.00	165	-4.23	0.00	0.00	0.00	0.00	0.00
283.00	0.00	162	-4.23	0.00	0.00	0.00	0.00	0.00
284.00	0.00	159	-4.24	0.00	0.00	0.00	0.00	0.00
285.00	0.00	157	-4.24	0.00	0.00	0.00	0.00	0.00
286.00	0.00	154	-4.25	0.00	0.00	0.00	0.00	0.00
287.00	0.00	151	-4.25	0.00	0.00	0.00	0.00	0.00
288.00	0.00	149	-4.26	0.00	0.00	0.00	0.00	0.00
289.00	0.00	146	-4.26	0.00	0.00	0.00	0.00	0.00
290.00	0.00	143	-4.26	0.00	0.00	0.00	0.00	0.00
291.00	0.00	141	-4.27	0.00	0.00	0.00	0.00	0.00
292.00	0.00	138	-4.27	0.00	0.00	0.00	0.00	0.00
293.00	0.00	136	-4.28	0.00	0.00	0.00	0.00	0.00
294.00	0.00	133	-4.28	0.00	0.00	0.00	0.00	0.00
295.00	0.00	130	-4.29	0.00	0.00	0.00	0.00	0.00
296.00	0.00	128	-4.29	0.00	0.00	0.00	0.00	0.00
297.00	0.00	125	-4.30	0.00	0.00	0.00	0.00	0.00
298.00	0.00	122	-4.30	0.00	0.00	0.00	0.00	0.00
299.00	0.00	120	-4.30	0.00	0.00	0.00	0.00	0.00
300.00	0.00	117	-4.31	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Time span=0.00-300.00 hrs, dt=0.01 hrs, 30001 points
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv.
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: 0.8 ac - 80% imp Runoff Area=27,878 sf 100.00% Impervious Runoff Depth=0.99"
Tc=6.0 min CN=0/98 Runoff=1.79 cfs 0.053 af

Subcatchment2S: 0.8 ac - 20% Impevious Runoff Area=6,970 sf 0.00% Impervious Runoff Depth=0.13"
Tc=6.0 min CN=79/0 Runoff=0.06 cfs 0.002 af

Subcatchment3S: 0.8 ac Pervious Runoff Area=34,848 sf 0.00% Impervious Runoff Depth=0.06"
Tc=15.0 min CN=74/0 Runoff=0.07 cfs 0.004 af

Subcatchment4S: 0.8 ac - 80% imp 20% Runoff Area=27,878 sf 100.00% Impervious Runoff Depth=0.99"
Tc=6.0 min CN=0/98 Runoff=1.79 cfs 0.053 af

Pond 1P: Managed Release Pemeable Peak Elev=-2.09' Storage=2,335 cf Inflow=1.83 cfs 0.054 af
s 0.020 af Primary=0.01 cfs 0.033 af Secondary=0.00 cfs 0.000 af Tertiary=0.00 cfs 0.000 af Outflow=0.01 cfs 0.053 af

Total Runoff Area = 2.240 ac Runoff Volume = 0.111 af Average Runoff Depth = 0.59"
42.86% Pervious = 0.960 ac 57.14% Impervious = 1.280 ac

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Summary for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Runoff = 1.79 cfs @ 1.11 hrs, Volume= 0.053 af, Depth= 0.99"

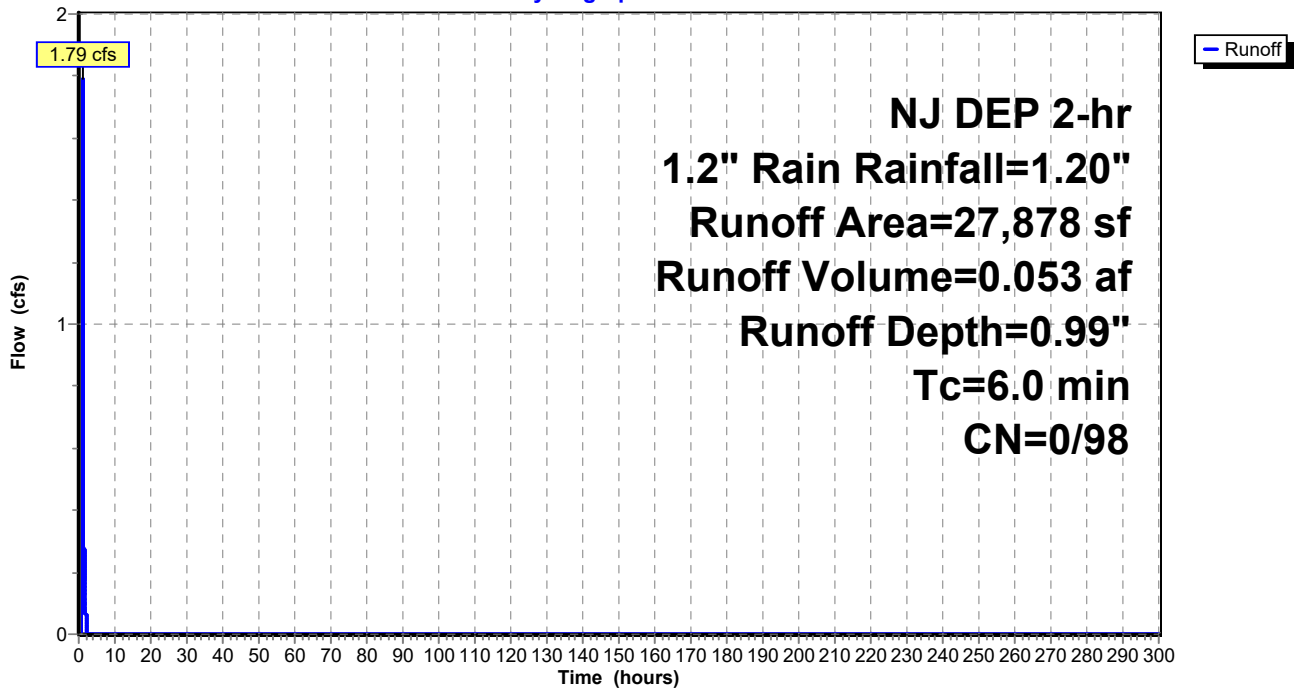
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Area (sf)	CN	Description
27,878	98	Paved roads w/curbs & sewers, HSG B
27,878	98	100.00% Impervious Area

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

Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Hydrograph



MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.41	1.13
2.00	1.20	0.00	0.99	0.06
3.00	1.20	0.00	0.99	0.00
4.00	1.20	0.00	0.99	0.00
5.00	1.20	0.00	0.99	0.00
6.00	1.20	0.00	0.99	0.00
7.00	1.20	0.00	0.99	0.00
8.00	1.20	0.00	0.99	0.00
9.00	1.20	0.00	0.99	0.00
10.00	1.20	0.00	0.99	0.00
11.00	1.20	0.00	0.99	0.00
12.00	1.20	0.00	0.99	0.00
13.00	1.20	0.00	0.99	0.00
14.00	1.20	0.00	0.99	0.00
15.00	1.20	0.00	0.99	0.00
16.00	1.20	0.00	0.99	0.00
17.00	1.20	0.00	0.99	0.00
18.00	1.20	0.00	0.99	0.00
19.00	1.20	0.00	0.99	0.00
20.00	1.20	0.00	0.99	0.00
21.00	1.20	0.00	0.99	0.00
22.00	1.20	0.00	0.99	0.00
23.00	1.20	0.00	0.99	0.00
24.00	1.20	0.00	0.99	0.00
25.00	1.20	0.00	0.99	0.00
26.00	1.20	0.00	0.99	0.00
27.00	1.20	0.00	0.99	0.00
28.00	1.20	0.00	0.99	0.00
29.00	1.20	0.00	0.99	0.00
30.00	1.20	0.00	0.99	0.00
31.00	1.20	0.00	0.99	0.00
32.00	1.20	0.00	0.99	0.00
33.00	1.20	0.00	0.99	0.00
34.00	1.20	0.00	0.99	0.00
35.00	1.20	0.00	0.99	0.00
36.00	1.20	0.00	0.99	0.00
37.00	1.20	0.00	0.99	0.00
38.00	1.20	0.00	0.99	0.00
39.00	1.20	0.00	0.99	0.00
40.00	1.20	0.00	0.99	0.00
41.00	1.20	0.00	0.99	0.00
42.00	1.20	0.00	0.99	0.00
43.00	1.20	0.00	0.99	0.00
44.00	1.20	0.00	0.99	0.00
45.00	1.20	0.00	0.99	0.00
46.00	1.20	0.00	0.99	0.00
47.00	1.20	0.00	0.99	0.00
48.00	1.20	0.00	0.99	0.00
49.00	1.20	0.00	0.99	0.00
50.00	1.20	0.00	0.99	0.00
51.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.20	0.00	0.99	0.00
53.00	1.20	0.00	0.99	0.00
54.00	1.20	0.00	0.99	0.00
55.00	1.20	0.00	0.99	0.00
56.00	1.20	0.00	0.99	0.00
57.00	1.20	0.00	0.99	0.00
58.00	1.20	0.00	0.99	0.00
59.00	1.20	0.00	0.99	0.00
60.00	1.20	0.00	0.99	0.00
61.00	1.20	0.00	0.99	0.00
62.00	1.20	0.00	0.99	0.00
63.00	1.20	0.00	0.99	0.00
64.00	1.20	0.00	0.99	0.00
65.00	1.20	0.00	0.99	0.00
66.00	1.20	0.00	0.99	0.00
67.00	1.20	0.00	0.99	0.00
68.00	1.20	0.00	0.99	0.00
69.00	1.20	0.00	0.99	0.00
70.00	1.20	0.00	0.99	0.00
71.00	1.20	0.00	0.99	0.00
72.00	1.20	0.00	0.99	0.00
73.00	1.20	0.00	0.99	0.00
74.00	1.20	0.00	0.99	0.00
75.00	1.20	0.00	0.99	0.00
76.00	1.20	0.00	0.99	0.00
77.00	1.20	0.00	0.99	0.00
78.00	1.20	0.00	0.99	0.00
79.00	1.20	0.00	0.99	0.00
80.00	1.20	0.00	0.99	0.00
81.00	1.20	0.00	0.99	0.00
82.00	1.20	0.00	0.99	0.00
83.00	1.20	0.00	0.99	0.00
84.00	1.20	0.00	0.99	0.00
85.00	1.20	0.00	0.99	0.00
86.00	1.20	0.00	0.99	0.00
87.00	1.20	0.00	0.99	0.00
88.00	1.20	0.00	0.99	0.00
89.00	1.20	0.00	0.99	0.00
90.00	1.20	0.00	0.99	0.00
91.00	1.20	0.00	0.99	0.00
92.00	1.20	0.00	0.99	0.00
93.00	1.20	0.00	0.99	0.00
94.00	1.20	0.00	0.99	0.00
95.00	1.20	0.00	0.99	0.00
96.00	1.20	0.00	0.99	0.00
97.00	1.20	0.00	0.99	0.00
98.00	1.20	0.00	0.99	0.00
99.00	1.20	0.00	0.99	0.00
100.00	1.20	0.00	0.99	0.00
101.00	1.20	0.00	0.99	0.00
102.00	1.20	0.00	0.99	0.00
103.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	1.20	0.00	0.99	0.00
105.00	1.20	0.00	0.99	0.00
106.00	1.20	0.00	0.99	0.00
107.00	1.20	0.00	0.99	0.00
108.00	1.20	0.00	0.99	0.00
109.00	1.20	0.00	0.99	0.00
110.00	1.20	0.00	0.99	0.00
111.00	1.20	0.00	0.99	0.00
112.00	1.20	0.00	0.99	0.00
113.00	1.20	0.00	0.99	0.00
114.00	1.20	0.00	0.99	0.00
115.00	1.20	0.00	0.99	0.00
116.00	1.20	0.00	0.99	0.00
117.00	1.20	0.00	0.99	0.00
118.00	1.20	0.00	0.99	0.00
119.00	1.20	0.00	0.99	0.00
120.00	1.20	0.00	0.99	0.00
121.00	1.20	0.00	0.99	0.00
122.00	1.20	0.00	0.99	0.00
123.00	1.20	0.00	0.99	0.00
124.00	1.20	0.00	0.99	0.00
125.00	1.20	0.00	0.99	0.00
126.00	1.20	0.00	0.99	0.00
127.00	1.20	0.00	0.99	0.00
128.00	1.20	0.00	0.99	0.00
129.00	1.20	0.00	0.99	0.00
130.00	1.20	0.00	0.99	0.00
131.00	1.20	0.00	0.99	0.00
132.00	1.20	0.00	0.99	0.00
133.00	1.20	0.00	0.99	0.00
134.00	1.20	0.00	0.99	0.00
135.00	1.20	0.00	0.99	0.00
136.00	1.20	0.00	0.99	0.00
137.00	1.20	0.00	0.99	0.00
138.00	1.20	0.00	0.99	0.00
139.00	1.20	0.00	0.99	0.00
140.00	1.20	0.00	0.99	0.00
141.00	1.20	0.00	0.99	0.00
142.00	1.20	0.00	0.99	0.00
143.00	1.20	0.00	0.99	0.00
144.00	1.20	0.00	0.99	0.00
145.00	1.20	0.00	0.99	0.00
146.00	1.20	0.00	0.99	0.00
147.00	1.20	0.00	0.99	0.00
148.00	1.20	0.00	0.99	0.00
149.00	1.20	0.00	0.99	0.00
150.00	1.20	0.00	0.99	0.00
151.00	1.20	0.00	0.99	0.00
152.00	1.20	0.00	0.99	0.00
153.00	1.20	0.00	0.99	0.00
154.00	1.20	0.00	0.99	0.00
155.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	1.20	0.00	0.99	0.00
157.00	1.20	0.00	0.99	0.00
158.00	1.20	0.00	0.99	0.00
159.00	1.20	0.00	0.99	0.00
160.00	1.20	0.00	0.99	0.00
161.00	1.20	0.00	0.99	0.00
162.00	1.20	0.00	0.99	0.00
163.00	1.20	0.00	0.99	0.00
164.00	1.20	0.00	0.99	0.00
165.00	1.20	0.00	0.99	0.00
166.00	1.20	0.00	0.99	0.00
167.00	1.20	0.00	0.99	0.00
168.00	1.20	0.00	0.99	0.00
169.00	1.20	0.00	0.99	0.00
170.00	1.20	0.00	0.99	0.00
171.00	1.20	0.00	0.99	0.00
172.00	1.20	0.00	0.99	0.00
173.00	1.20	0.00	0.99	0.00
174.00	1.20	0.00	0.99	0.00
175.00	1.20	0.00	0.99	0.00
176.00	1.20	0.00	0.99	0.00
177.00	1.20	0.00	0.99	0.00
178.00	1.20	0.00	0.99	0.00
179.00	1.20	0.00	0.99	0.00
180.00	1.20	0.00	0.99	0.00
181.00	1.20	0.00	0.99	0.00
182.00	1.20	0.00	0.99	0.00
183.00	1.20	0.00	0.99	0.00
184.00	1.20	0.00	0.99	0.00
185.00	1.20	0.00	0.99	0.00
186.00	1.20	0.00	0.99	0.00
187.00	1.20	0.00	0.99	0.00
188.00	1.20	0.00	0.99	0.00
189.00	1.20	0.00	0.99	0.00
190.00	1.20	0.00	0.99	0.00
191.00	1.20	0.00	0.99	0.00
192.00	1.20	0.00	0.99	0.00
193.00	1.20	0.00	0.99	0.00
194.00	1.20	0.00	0.99	0.00
195.00	1.20	0.00	0.99	0.00
196.00	1.20	0.00	0.99	0.00
197.00	1.20	0.00	0.99	0.00
198.00	1.20	0.00	0.99	0.00
199.00	1.20	0.00	0.99	0.00
200.00	1.20	0.00	0.99	0.00
201.00	1.20	0.00	0.99	0.00
202.00	1.20	0.00	0.99	0.00
203.00	1.20	0.00	0.99	0.00
204.00	1.20	0.00	0.99	0.00
205.00	1.20	0.00	0.99	0.00
206.00	1.20	0.00	0.99	0.00
207.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	1.20	0.00	0.99	0.00
209.00	1.20	0.00	0.99	0.00
210.00	1.20	0.00	0.99	0.00
211.00	1.20	0.00	0.99	0.00
212.00	1.20	0.00	0.99	0.00
213.00	1.20	0.00	0.99	0.00
214.00	1.20	0.00	0.99	0.00
215.00	1.20	0.00	0.99	0.00
216.00	1.20	0.00	0.99	0.00
217.00	1.20	0.00	0.99	0.00
218.00	1.20	0.00	0.99	0.00
219.00	1.20	0.00	0.99	0.00
220.00	1.20	0.00	0.99	0.00
221.00	1.20	0.00	0.99	0.00
222.00	1.20	0.00	0.99	0.00
223.00	1.20	0.00	0.99	0.00
224.00	1.20	0.00	0.99	0.00
225.00	1.20	0.00	0.99	0.00
226.00	1.20	0.00	0.99	0.00
227.00	1.20	0.00	0.99	0.00
228.00	1.20	0.00	0.99	0.00
229.00	1.20	0.00	0.99	0.00
230.00	1.20	0.00	0.99	0.00
231.00	1.20	0.00	0.99	0.00
232.00	1.20	0.00	0.99	0.00
233.00	1.20	0.00	0.99	0.00
234.00	1.20	0.00	0.99	0.00
235.00	1.20	0.00	0.99	0.00
236.00	1.20	0.00	0.99	0.00
237.00	1.20	0.00	0.99	0.00
238.00	1.20	0.00	0.99	0.00
239.00	1.20	0.00	0.99	0.00
240.00	1.20	0.00	0.99	0.00
241.00	1.20	0.00	0.99	0.00
242.00	1.20	0.00	0.99	0.00
243.00	1.20	0.00	0.99	0.00
244.00	1.20	0.00	0.99	0.00
245.00	1.20	0.00	0.99	0.00
246.00	1.20	0.00	0.99	0.00
247.00	1.20	0.00	0.99	0.00
248.00	1.20	0.00	0.99	0.00
249.00	1.20	0.00	0.99	0.00
250.00	1.20	0.00	0.99	0.00
251.00	1.20	0.00	0.99	0.00
252.00	1.20	0.00	0.99	0.00
253.00	1.20	0.00	0.99	0.00
254.00	1.20	0.00	0.99	0.00
255.00	1.20	0.00	0.99	0.00
256.00	1.20	0.00	0.99	0.00
257.00	1.20	0.00	0.99	0.00
258.00	1.20	0.00	0.99	0.00
259.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	1.20	0.00	0.99	0.00
261.00	1.20	0.00	0.99	0.00
262.00	1.20	0.00	0.99	0.00
263.00	1.20	0.00	0.99	0.00
264.00	1.20	0.00	0.99	0.00
265.00	1.20	0.00	0.99	0.00
266.00	1.20	0.00	0.99	0.00
267.00	1.20	0.00	0.99	0.00
268.00	1.20	0.00	0.99	0.00
269.00	1.20	0.00	0.99	0.00
270.00	1.20	0.00	0.99	0.00
271.00	1.20	0.00	0.99	0.00
272.00	1.20	0.00	0.99	0.00
273.00	1.20	0.00	0.99	0.00
274.00	1.20	0.00	0.99	0.00
275.00	1.20	0.00	0.99	0.00
276.00	1.20	0.00	0.99	0.00
277.00	1.20	0.00	0.99	0.00
278.00	1.20	0.00	0.99	0.00
279.00	1.20	0.00	0.99	0.00
280.00	1.20	0.00	0.99	0.00
281.00	1.20	0.00	0.99	0.00
282.00	1.20	0.00	0.99	0.00
283.00	1.20	0.00	0.99	0.00
284.00	1.20	0.00	0.99	0.00
285.00	1.20	0.00	0.99	0.00
286.00	1.20	0.00	0.99	0.00
287.00	1.20	0.00	0.99	0.00
288.00	1.20	0.00	0.99	0.00
289.00	1.20	0.00	0.99	0.00
290.00	1.20	0.00	0.99	0.00
291.00	1.20	0.00	0.99	0.00
292.00	1.20	0.00	0.99	0.00
293.00	1.20	0.00	0.99	0.00
294.00	1.20	0.00	0.99	0.00
295.00	1.20	0.00	0.99	0.00
296.00	1.20	0.00	0.99	0.00
297.00	1.20	0.00	0.99	0.00
298.00	1.20	0.00	0.99	0.00
299.00	1.20	0.00	0.99	0.00
300.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Summary for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Runoff = 0.06 cfs @ 1.14 hrs, Volume= 0.002 af, Depth= 0.13"

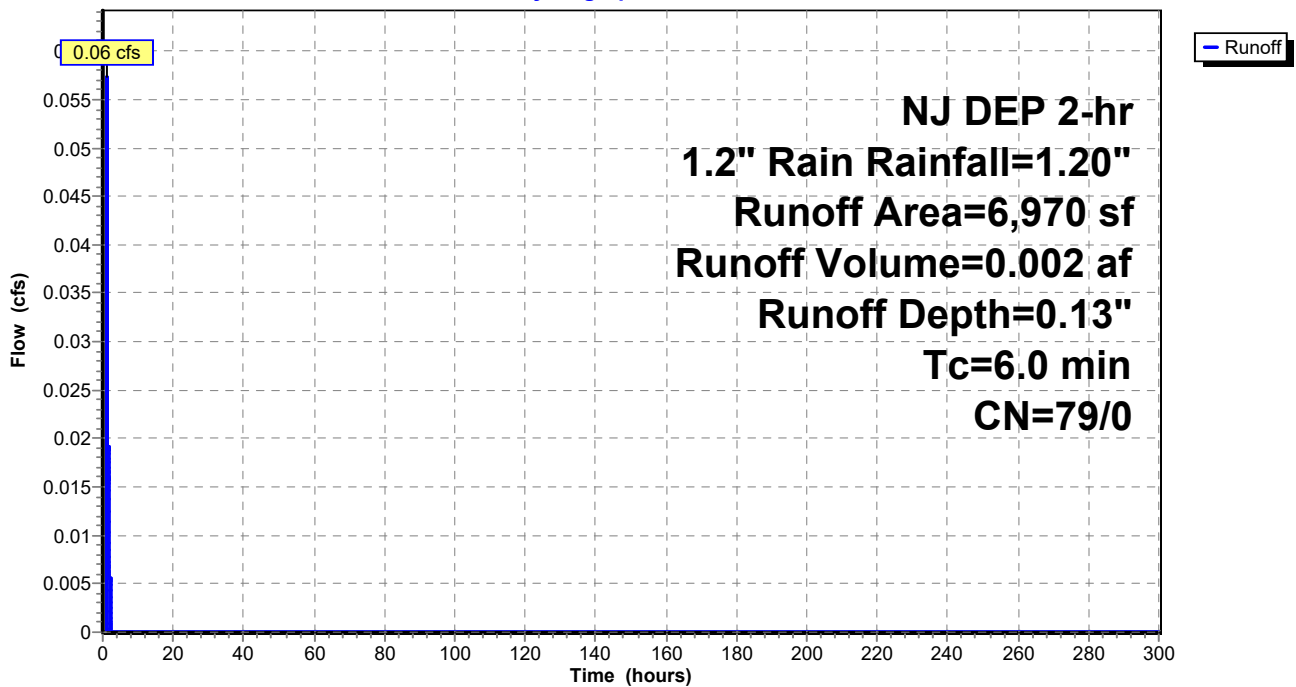
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Area (sf)	CN	Description
6,970	79	50-75% Grass cover, Fair, HSG C
6,970	79	100.00% Pervious Area

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

Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Hydrograph



MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.00	0.00
2.00	1.20	0.13	0.00	0.01
3.00	1.20	0.13	0.00	0.00
4.00	1.20	0.13	0.00	0.00
5.00	1.20	0.13	0.00	0.00
6.00	1.20	0.13	0.00	0.00
7.00	1.20	0.13	0.00	0.00
8.00	1.20	0.13	0.00	0.00
9.00	1.20	0.13	0.00	0.00
10.00	1.20	0.13	0.00	0.00
11.00	1.20	0.13	0.00	0.00
12.00	1.20	0.13	0.00	0.00
13.00	1.20	0.13	0.00	0.00
14.00	1.20	0.13	0.00	0.00
15.00	1.20	0.13	0.00	0.00
16.00	1.20	0.13	0.00	0.00
17.00	1.20	0.13	0.00	0.00
18.00	1.20	0.13	0.00	0.00
19.00	1.20	0.13	0.00	0.00
20.00	1.20	0.13	0.00	0.00
21.00	1.20	0.13	0.00	0.00
22.00	1.20	0.13	0.00	0.00
23.00	1.20	0.13	0.00	0.00
24.00	1.20	0.13	0.00	0.00
25.00	1.20	0.13	0.00	0.00
26.00	1.20	0.13	0.00	0.00
27.00	1.20	0.13	0.00	0.00
28.00	1.20	0.13	0.00	0.00
29.00	1.20	0.13	0.00	0.00
30.00	1.20	0.13	0.00	0.00
31.00	1.20	0.13	0.00	0.00
32.00	1.20	0.13	0.00	0.00
33.00	1.20	0.13	0.00	0.00
34.00	1.20	0.13	0.00	0.00
35.00	1.20	0.13	0.00	0.00
36.00	1.20	0.13	0.00	0.00
37.00	1.20	0.13	0.00	0.00
38.00	1.20	0.13	0.00	0.00
39.00	1.20	0.13	0.00	0.00
40.00	1.20	0.13	0.00	0.00
41.00	1.20	0.13	0.00	0.00
42.00	1.20	0.13	0.00	0.00
43.00	1.20	0.13	0.00	0.00
44.00	1.20	0.13	0.00	0.00
45.00	1.20	0.13	0.00	0.00
46.00	1.20	0.13	0.00	0.00
47.00	1.20	0.13	0.00	0.00
48.00	1.20	0.13	0.00	0.00
49.00	1.20	0.13	0.00	0.00
50.00	1.20	0.13	0.00	0.00
51.00	1.20	0.13	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.20	0.13	0.00	0.00
53.00	1.20	0.13	0.00	0.00
54.00	1.20	0.13	0.00	0.00
55.00	1.20	0.13	0.00	0.00
56.00	1.20	0.13	0.00	0.00
57.00	1.20	0.13	0.00	0.00
58.00	1.20	0.13	0.00	0.00
59.00	1.20	0.13	0.00	0.00
60.00	1.20	0.13	0.00	0.00
61.00	1.20	0.13	0.00	0.00
62.00	1.20	0.13	0.00	0.00
63.00	1.20	0.13	0.00	0.00
64.00	1.20	0.13	0.00	0.00
65.00	1.20	0.13	0.00	0.00
66.00	1.20	0.13	0.00	0.00
67.00	1.20	0.13	0.00	0.00
68.00	1.20	0.13	0.00	0.00
69.00	1.20	0.13	0.00	0.00
70.00	1.20	0.13	0.00	0.00
71.00	1.20	0.13	0.00	0.00
72.00	1.20	0.13	0.00	0.00
73.00	1.20	0.13	0.00	0.00
74.00	1.20	0.13	0.00	0.00
75.00	1.20	0.13	0.00	0.00
76.00	1.20	0.13	0.00	0.00
77.00	1.20	0.13	0.00	0.00
78.00	1.20	0.13	0.00	0.00
79.00	1.20	0.13	0.00	0.00
80.00	1.20	0.13	0.00	0.00
81.00	1.20	0.13	0.00	0.00
82.00	1.20	0.13	0.00	0.00
83.00	1.20	0.13	0.00	0.00
84.00	1.20	0.13	0.00	0.00
85.00	1.20	0.13	0.00	0.00
86.00	1.20	0.13	0.00	0.00
87.00	1.20	0.13	0.00	0.00
88.00	1.20	0.13	0.00	0.00
89.00	1.20	0.13	0.00	0.00
90.00	1.20	0.13	0.00	0.00
91.00	1.20	0.13	0.00	0.00
92.00	1.20	0.13	0.00	0.00
93.00	1.20	0.13	0.00	0.00
94.00	1.20	0.13	0.00	0.00
95.00	1.20	0.13	0.00	0.00
96.00	1.20	0.13	0.00	0.00
97.00	1.20	0.13	0.00	0.00
98.00	1.20	0.13	0.00	0.00
99.00	1.20	0.13	0.00	0.00
100.00	1.20	0.13	0.00	0.00
101.00	1.20	0.13	0.00	0.00
102.00	1.20	0.13	0.00	0.00
103.00	1.20	0.13	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	1.20	0.13	0.00	0.00
105.00	1.20	0.13	0.00	0.00
106.00	1.20	0.13	0.00	0.00
107.00	1.20	0.13	0.00	0.00
108.00	1.20	0.13	0.00	0.00
109.00	1.20	0.13	0.00	0.00
110.00	1.20	0.13	0.00	0.00
111.00	1.20	0.13	0.00	0.00
112.00	1.20	0.13	0.00	0.00
113.00	1.20	0.13	0.00	0.00
114.00	1.20	0.13	0.00	0.00
115.00	1.20	0.13	0.00	0.00
116.00	1.20	0.13	0.00	0.00
117.00	1.20	0.13	0.00	0.00
118.00	1.20	0.13	0.00	0.00
119.00	1.20	0.13	0.00	0.00
120.00	1.20	0.13	0.00	0.00
121.00	1.20	0.13	0.00	0.00
122.00	1.20	0.13	0.00	0.00
123.00	1.20	0.13	0.00	0.00
124.00	1.20	0.13	0.00	0.00
125.00	1.20	0.13	0.00	0.00
126.00	1.20	0.13	0.00	0.00
127.00	1.20	0.13	0.00	0.00
128.00	1.20	0.13	0.00	0.00
129.00	1.20	0.13	0.00	0.00
130.00	1.20	0.13	0.00	0.00
131.00	1.20	0.13	0.00	0.00
132.00	1.20	0.13	0.00	0.00
133.00	1.20	0.13	0.00	0.00
134.00	1.20	0.13	0.00	0.00
135.00	1.20	0.13	0.00	0.00
136.00	1.20	0.13	0.00	0.00
137.00	1.20	0.13	0.00	0.00
138.00	1.20	0.13	0.00	0.00
139.00	1.20	0.13	0.00	0.00
140.00	1.20	0.13	0.00	0.00
141.00	1.20	0.13	0.00	0.00
142.00	1.20	0.13	0.00	0.00
143.00	1.20	0.13	0.00	0.00
144.00	1.20	0.13	0.00	0.00
145.00	1.20	0.13	0.00	0.00
146.00	1.20	0.13	0.00	0.00
147.00	1.20	0.13	0.00	0.00
148.00	1.20	0.13	0.00	0.00
149.00	1.20	0.13	0.00	0.00
150.00	1.20	0.13	0.00	0.00
151.00	1.20	0.13	0.00	0.00
152.00	1.20	0.13	0.00	0.00
153.00	1.20	0.13	0.00	0.00
154.00	1.20	0.13	0.00	0.00
155.00	1.20	0.13	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	1.20	0.13	0.00	0.00
157.00	1.20	0.13	0.00	0.00
158.00	1.20	0.13	0.00	0.00
159.00	1.20	0.13	0.00	0.00
160.00	1.20	0.13	0.00	0.00
161.00	1.20	0.13	0.00	0.00
162.00	1.20	0.13	0.00	0.00
163.00	1.20	0.13	0.00	0.00
164.00	1.20	0.13	0.00	0.00
165.00	1.20	0.13	0.00	0.00
166.00	1.20	0.13	0.00	0.00
167.00	1.20	0.13	0.00	0.00
168.00	1.20	0.13	0.00	0.00
169.00	1.20	0.13	0.00	0.00
170.00	1.20	0.13	0.00	0.00
171.00	1.20	0.13	0.00	0.00
172.00	1.20	0.13	0.00	0.00
173.00	1.20	0.13	0.00	0.00
174.00	1.20	0.13	0.00	0.00
175.00	1.20	0.13	0.00	0.00
176.00	1.20	0.13	0.00	0.00
177.00	1.20	0.13	0.00	0.00
178.00	1.20	0.13	0.00	0.00
179.00	1.20	0.13	0.00	0.00
180.00	1.20	0.13	0.00	0.00
181.00	1.20	0.13	0.00	0.00
182.00	1.20	0.13	0.00	0.00
183.00	1.20	0.13	0.00	0.00
184.00	1.20	0.13	0.00	0.00
185.00	1.20	0.13	0.00	0.00
186.00	1.20	0.13	0.00	0.00
187.00	1.20	0.13	0.00	0.00
188.00	1.20	0.13	0.00	0.00
189.00	1.20	0.13	0.00	0.00
190.00	1.20	0.13	0.00	0.00
191.00	1.20	0.13	0.00	0.00
192.00	1.20	0.13	0.00	0.00
193.00	1.20	0.13	0.00	0.00
194.00	1.20	0.13	0.00	0.00
195.00	1.20	0.13	0.00	0.00
196.00	1.20	0.13	0.00	0.00
197.00	1.20	0.13	0.00	0.00
198.00	1.20	0.13	0.00	0.00
199.00	1.20	0.13	0.00	0.00
200.00	1.20	0.13	0.00	0.00
201.00	1.20	0.13	0.00	0.00
202.00	1.20	0.13	0.00	0.00
203.00	1.20	0.13	0.00	0.00
204.00	1.20	0.13	0.00	0.00
205.00	1.20	0.13	0.00	0.00
206.00	1.20	0.13	0.00	0.00
207.00	1.20	0.13	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	1.20	0.13	0.00	0.00
209.00	1.20	0.13	0.00	0.00
210.00	1.20	0.13	0.00	0.00
211.00	1.20	0.13	0.00	0.00
212.00	1.20	0.13	0.00	0.00
213.00	1.20	0.13	0.00	0.00
214.00	1.20	0.13	0.00	0.00
215.00	1.20	0.13	0.00	0.00
216.00	1.20	0.13	0.00	0.00
217.00	1.20	0.13	0.00	0.00
218.00	1.20	0.13	0.00	0.00
219.00	1.20	0.13	0.00	0.00
220.00	1.20	0.13	0.00	0.00
221.00	1.20	0.13	0.00	0.00
222.00	1.20	0.13	0.00	0.00
223.00	1.20	0.13	0.00	0.00
224.00	1.20	0.13	0.00	0.00
225.00	1.20	0.13	0.00	0.00
226.00	1.20	0.13	0.00	0.00
227.00	1.20	0.13	0.00	0.00
228.00	1.20	0.13	0.00	0.00
229.00	1.20	0.13	0.00	0.00
230.00	1.20	0.13	0.00	0.00
231.00	1.20	0.13	0.00	0.00
232.00	1.20	0.13	0.00	0.00
233.00	1.20	0.13	0.00	0.00
234.00	1.20	0.13	0.00	0.00
235.00	1.20	0.13	0.00	0.00
236.00	1.20	0.13	0.00	0.00
237.00	1.20	0.13	0.00	0.00
238.00	1.20	0.13	0.00	0.00
239.00	1.20	0.13	0.00	0.00
240.00	1.20	0.13	0.00	0.00
241.00	1.20	0.13	0.00	0.00
242.00	1.20	0.13	0.00	0.00
243.00	1.20	0.13	0.00	0.00
244.00	1.20	0.13	0.00	0.00
245.00	1.20	0.13	0.00	0.00
246.00	1.20	0.13	0.00	0.00
247.00	1.20	0.13	0.00	0.00
248.00	1.20	0.13	0.00	0.00
249.00	1.20	0.13	0.00	0.00
250.00	1.20	0.13	0.00	0.00
251.00	1.20	0.13	0.00	0.00
252.00	1.20	0.13	0.00	0.00
253.00	1.20	0.13	0.00	0.00
254.00	1.20	0.13	0.00	0.00
255.00	1.20	0.13	0.00	0.00
256.00	1.20	0.13	0.00	0.00
257.00	1.20	0.13	0.00	0.00
258.00	1.20	0.13	0.00	0.00
259.00	1.20	0.13	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	1.20	0.13	0.00	0.00
261.00	1.20	0.13	0.00	0.00
262.00	1.20	0.13	0.00	0.00
263.00	1.20	0.13	0.00	0.00
264.00	1.20	0.13	0.00	0.00
265.00	1.20	0.13	0.00	0.00
266.00	1.20	0.13	0.00	0.00
267.00	1.20	0.13	0.00	0.00
268.00	1.20	0.13	0.00	0.00
269.00	1.20	0.13	0.00	0.00
270.00	1.20	0.13	0.00	0.00
271.00	1.20	0.13	0.00	0.00
272.00	1.20	0.13	0.00	0.00
273.00	1.20	0.13	0.00	0.00
274.00	1.20	0.13	0.00	0.00
275.00	1.20	0.13	0.00	0.00
276.00	1.20	0.13	0.00	0.00
277.00	1.20	0.13	0.00	0.00
278.00	1.20	0.13	0.00	0.00
279.00	1.20	0.13	0.00	0.00
280.00	1.20	0.13	0.00	0.00
281.00	1.20	0.13	0.00	0.00
282.00	1.20	0.13	0.00	0.00
283.00	1.20	0.13	0.00	0.00
284.00	1.20	0.13	0.00	0.00
285.00	1.20	0.13	0.00	0.00
286.00	1.20	0.13	0.00	0.00
287.00	1.20	0.13	0.00	0.00
288.00	1.20	0.13	0.00	0.00
289.00	1.20	0.13	0.00	0.00
290.00	1.20	0.13	0.00	0.00
291.00	1.20	0.13	0.00	0.00
292.00	1.20	0.13	0.00	0.00
293.00	1.20	0.13	0.00	0.00
294.00	1.20	0.13	0.00	0.00
295.00	1.20	0.13	0.00	0.00
296.00	1.20	0.13	0.00	0.00
297.00	1.20	0.13	0.00	0.00
298.00	1.20	0.13	0.00	0.00
299.00	1.20	0.13	0.00	0.00
300.00	1.20	0.13	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Summary for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Runoff = 0.07 cfs @ 1.35 hrs, Volume= 0.004 af, Depth= 0.06"

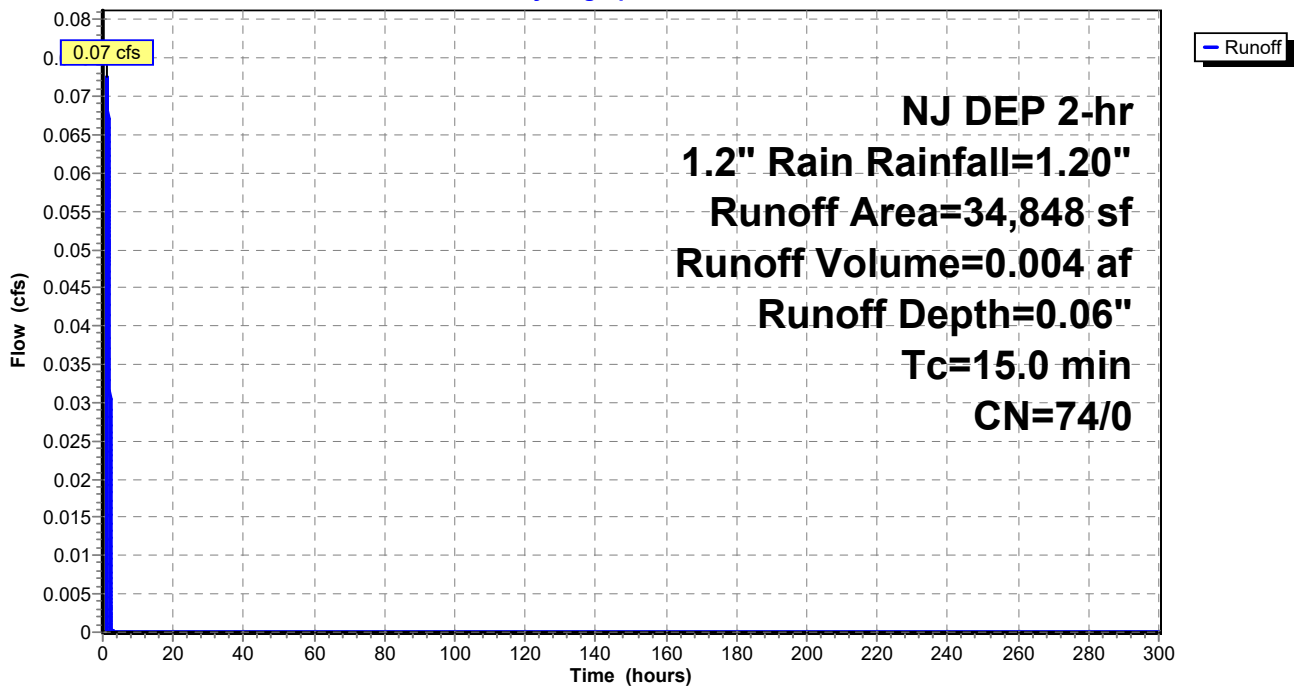
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

	Area (sf)	CN	Description
*	34,848	74	Meadow, non-grazed, HSG C
	34,848	74	100.00% Pervious Area

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

Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Hydrograph



MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.00	0.00
2.00	1.20	0.06	0.00	0.03
3.00	1.20	0.06	0.00	0.00
4.00	1.20	0.06	0.00	0.00
5.00	1.20	0.06	0.00	0.00
6.00	1.20	0.06	0.00	0.00
7.00	1.20	0.06	0.00	0.00
8.00	1.20	0.06	0.00	0.00
9.00	1.20	0.06	0.00	0.00
10.00	1.20	0.06	0.00	0.00
11.00	1.20	0.06	0.00	0.00
12.00	1.20	0.06	0.00	0.00
13.00	1.20	0.06	0.00	0.00
14.00	1.20	0.06	0.00	0.00
15.00	1.20	0.06	0.00	0.00
16.00	1.20	0.06	0.00	0.00
17.00	1.20	0.06	0.00	0.00
18.00	1.20	0.06	0.00	0.00
19.00	1.20	0.06	0.00	0.00
20.00	1.20	0.06	0.00	0.00
21.00	1.20	0.06	0.00	0.00
22.00	1.20	0.06	0.00	0.00
23.00	1.20	0.06	0.00	0.00
24.00	1.20	0.06	0.00	0.00
25.00	1.20	0.06	0.00	0.00
26.00	1.20	0.06	0.00	0.00
27.00	1.20	0.06	0.00	0.00
28.00	1.20	0.06	0.00	0.00
29.00	1.20	0.06	0.00	0.00
30.00	1.20	0.06	0.00	0.00
31.00	1.20	0.06	0.00	0.00
32.00	1.20	0.06	0.00	0.00
33.00	1.20	0.06	0.00	0.00
34.00	1.20	0.06	0.00	0.00
35.00	1.20	0.06	0.00	0.00
36.00	1.20	0.06	0.00	0.00
37.00	1.20	0.06	0.00	0.00
38.00	1.20	0.06	0.00	0.00
39.00	1.20	0.06	0.00	0.00
40.00	1.20	0.06	0.00	0.00
41.00	1.20	0.06	0.00	0.00
42.00	1.20	0.06	0.00	0.00
43.00	1.20	0.06	0.00	0.00
44.00	1.20	0.06	0.00	0.00
45.00	1.20	0.06	0.00	0.00
46.00	1.20	0.06	0.00	0.00
47.00	1.20	0.06	0.00	0.00
48.00	1.20	0.06	0.00	0.00
49.00	1.20	0.06	0.00	0.00
50.00	1.20	0.06	0.00	0.00
51.00	1.20	0.06	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.20	0.06	0.00	0.00
53.00	1.20	0.06	0.00	0.00
54.00	1.20	0.06	0.00	0.00
55.00	1.20	0.06	0.00	0.00
56.00	1.20	0.06	0.00	0.00
57.00	1.20	0.06	0.00	0.00
58.00	1.20	0.06	0.00	0.00
59.00	1.20	0.06	0.00	0.00
60.00	1.20	0.06	0.00	0.00
61.00	1.20	0.06	0.00	0.00
62.00	1.20	0.06	0.00	0.00
63.00	1.20	0.06	0.00	0.00
64.00	1.20	0.06	0.00	0.00
65.00	1.20	0.06	0.00	0.00
66.00	1.20	0.06	0.00	0.00
67.00	1.20	0.06	0.00	0.00
68.00	1.20	0.06	0.00	0.00
69.00	1.20	0.06	0.00	0.00
70.00	1.20	0.06	0.00	0.00
71.00	1.20	0.06	0.00	0.00
72.00	1.20	0.06	0.00	0.00
73.00	1.20	0.06	0.00	0.00
74.00	1.20	0.06	0.00	0.00
75.00	1.20	0.06	0.00	0.00
76.00	1.20	0.06	0.00	0.00
77.00	1.20	0.06	0.00	0.00
78.00	1.20	0.06	0.00	0.00
79.00	1.20	0.06	0.00	0.00
80.00	1.20	0.06	0.00	0.00
81.00	1.20	0.06	0.00	0.00
82.00	1.20	0.06	0.00	0.00
83.00	1.20	0.06	0.00	0.00
84.00	1.20	0.06	0.00	0.00
85.00	1.20	0.06	0.00	0.00
86.00	1.20	0.06	0.00	0.00
87.00	1.20	0.06	0.00	0.00
88.00	1.20	0.06	0.00	0.00
89.00	1.20	0.06	0.00	0.00
90.00	1.20	0.06	0.00	0.00
91.00	1.20	0.06	0.00	0.00
92.00	1.20	0.06	0.00	0.00
93.00	1.20	0.06	0.00	0.00
94.00	1.20	0.06	0.00	0.00
95.00	1.20	0.06	0.00	0.00
96.00	1.20	0.06	0.00	0.00
97.00	1.20	0.06	0.00	0.00
98.00	1.20	0.06	0.00	0.00
99.00	1.20	0.06	0.00	0.00
100.00	1.20	0.06	0.00	0.00
101.00	1.20	0.06	0.00	0.00
102.00	1.20	0.06	0.00	0.00
103.00	1.20	0.06	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	1.20	0.06	0.00	0.00
105.00	1.20	0.06	0.00	0.00
106.00	1.20	0.06	0.00	0.00
107.00	1.20	0.06	0.00	0.00
108.00	1.20	0.06	0.00	0.00
109.00	1.20	0.06	0.00	0.00
110.00	1.20	0.06	0.00	0.00
111.00	1.20	0.06	0.00	0.00
112.00	1.20	0.06	0.00	0.00
113.00	1.20	0.06	0.00	0.00
114.00	1.20	0.06	0.00	0.00
115.00	1.20	0.06	0.00	0.00
116.00	1.20	0.06	0.00	0.00
117.00	1.20	0.06	0.00	0.00
118.00	1.20	0.06	0.00	0.00
119.00	1.20	0.06	0.00	0.00
120.00	1.20	0.06	0.00	0.00
121.00	1.20	0.06	0.00	0.00
122.00	1.20	0.06	0.00	0.00
123.00	1.20	0.06	0.00	0.00
124.00	1.20	0.06	0.00	0.00
125.00	1.20	0.06	0.00	0.00
126.00	1.20	0.06	0.00	0.00
127.00	1.20	0.06	0.00	0.00
128.00	1.20	0.06	0.00	0.00
129.00	1.20	0.06	0.00	0.00
130.00	1.20	0.06	0.00	0.00
131.00	1.20	0.06	0.00	0.00
132.00	1.20	0.06	0.00	0.00
133.00	1.20	0.06	0.00	0.00
134.00	1.20	0.06	0.00	0.00
135.00	1.20	0.06	0.00	0.00
136.00	1.20	0.06	0.00	0.00
137.00	1.20	0.06	0.00	0.00
138.00	1.20	0.06	0.00	0.00
139.00	1.20	0.06	0.00	0.00
140.00	1.20	0.06	0.00	0.00
141.00	1.20	0.06	0.00	0.00
142.00	1.20	0.06	0.00	0.00
143.00	1.20	0.06	0.00	0.00
144.00	1.20	0.06	0.00	0.00
145.00	1.20	0.06	0.00	0.00
146.00	1.20	0.06	0.00	0.00
147.00	1.20	0.06	0.00	0.00
148.00	1.20	0.06	0.00	0.00
149.00	1.20	0.06	0.00	0.00
150.00	1.20	0.06	0.00	0.00
151.00	1.20	0.06	0.00	0.00
152.00	1.20	0.06	0.00	0.00
153.00	1.20	0.06	0.00	0.00
154.00	1.20	0.06	0.00	0.00
155.00	1.20	0.06	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	1.20	0.06	0.00	0.00
157.00	1.20	0.06	0.00	0.00
158.00	1.20	0.06	0.00	0.00
159.00	1.20	0.06	0.00	0.00
160.00	1.20	0.06	0.00	0.00
161.00	1.20	0.06	0.00	0.00
162.00	1.20	0.06	0.00	0.00
163.00	1.20	0.06	0.00	0.00
164.00	1.20	0.06	0.00	0.00
165.00	1.20	0.06	0.00	0.00
166.00	1.20	0.06	0.00	0.00
167.00	1.20	0.06	0.00	0.00
168.00	1.20	0.06	0.00	0.00
169.00	1.20	0.06	0.00	0.00
170.00	1.20	0.06	0.00	0.00
171.00	1.20	0.06	0.00	0.00
172.00	1.20	0.06	0.00	0.00
173.00	1.20	0.06	0.00	0.00
174.00	1.20	0.06	0.00	0.00
175.00	1.20	0.06	0.00	0.00
176.00	1.20	0.06	0.00	0.00
177.00	1.20	0.06	0.00	0.00
178.00	1.20	0.06	0.00	0.00
179.00	1.20	0.06	0.00	0.00
180.00	1.20	0.06	0.00	0.00
181.00	1.20	0.06	0.00	0.00
182.00	1.20	0.06	0.00	0.00
183.00	1.20	0.06	0.00	0.00
184.00	1.20	0.06	0.00	0.00
185.00	1.20	0.06	0.00	0.00
186.00	1.20	0.06	0.00	0.00
187.00	1.20	0.06	0.00	0.00
188.00	1.20	0.06	0.00	0.00
189.00	1.20	0.06	0.00	0.00
190.00	1.20	0.06	0.00	0.00
191.00	1.20	0.06	0.00	0.00
192.00	1.20	0.06	0.00	0.00
193.00	1.20	0.06	0.00	0.00
194.00	1.20	0.06	0.00	0.00
195.00	1.20	0.06	0.00	0.00
196.00	1.20	0.06	0.00	0.00
197.00	1.20	0.06	0.00	0.00
198.00	1.20	0.06	0.00	0.00
199.00	1.20	0.06	0.00	0.00
200.00	1.20	0.06	0.00	0.00
201.00	1.20	0.06	0.00	0.00
202.00	1.20	0.06	0.00	0.00
203.00	1.20	0.06	0.00	0.00
204.00	1.20	0.06	0.00	0.00
205.00	1.20	0.06	0.00	0.00
206.00	1.20	0.06	0.00	0.00
207.00	1.20	0.06	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	1.20	0.06	0.00	0.00
209.00	1.20	0.06	0.00	0.00
210.00	1.20	0.06	0.00	0.00
211.00	1.20	0.06	0.00	0.00
212.00	1.20	0.06	0.00	0.00
213.00	1.20	0.06	0.00	0.00
214.00	1.20	0.06	0.00	0.00
215.00	1.20	0.06	0.00	0.00
216.00	1.20	0.06	0.00	0.00
217.00	1.20	0.06	0.00	0.00
218.00	1.20	0.06	0.00	0.00
219.00	1.20	0.06	0.00	0.00
220.00	1.20	0.06	0.00	0.00
221.00	1.20	0.06	0.00	0.00
222.00	1.20	0.06	0.00	0.00
223.00	1.20	0.06	0.00	0.00
224.00	1.20	0.06	0.00	0.00
225.00	1.20	0.06	0.00	0.00
226.00	1.20	0.06	0.00	0.00
227.00	1.20	0.06	0.00	0.00
228.00	1.20	0.06	0.00	0.00
229.00	1.20	0.06	0.00	0.00
230.00	1.20	0.06	0.00	0.00
231.00	1.20	0.06	0.00	0.00
232.00	1.20	0.06	0.00	0.00
233.00	1.20	0.06	0.00	0.00
234.00	1.20	0.06	0.00	0.00
235.00	1.20	0.06	0.00	0.00
236.00	1.20	0.06	0.00	0.00
237.00	1.20	0.06	0.00	0.00
238.00	1.20	0.06	0.00	0.00
239.00	1.20	0.06	0.00	0.00
240.00	1.20	0.06	0.00	0.00
241.00	1.20	0.06	0.00	0.00
242.00	1.20	0.06	0.00	0.00
243.00	1.20	0.06	0.00	0.00
244.00	1.20	0.06	0.00	0.00
245.00	1.20	0.06	0.00	0.00
246.00	1.20	0.06	0.00	0.00
247.00	1.20	0.06	0.00	0.00
248.00	1.20	0.06	0.00	0.00
249.00	1.20	0.06	0.00	0.00
250.00	1.20	0.06	0.00	0.00
251.00	1.20	0.06	0.00	0.00
252.00	1.20	0.06	0.00	0.00
253.00	1.20	0.06	0.00	0.00
254.00	1.20	0.06	0.00	0.00
255.00	1.20	0.06	0.00	0.00
256.00	1.20	0.06	0.00	0.00
257.00	1.20	0.06	0.00	0.00
258.00	1.20	0.06	0.00	0.00
259.00	1.20	0.06	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	1.20	0.06	0.00	0.00
261.00	1.20	0.06	0.00	0.00
262.00	1.20	0.06	0.00	0.00
263.00	1.20	0.06	0.00	0.00
264.00	1.20	0.06	0.00	0.00
265.00	1.20	0.06	0.00	0.00
266.00	1.20	0.06	0.00	0.00
267.00	1.20	0.06	0.00	0.00
268.00	1.20	0.06	0.00	0.00
269.00	1.20	0.06	0.00	0.00
270.00	1.20	0.06	0.00	0.00
271.00	1.20	0.06	0.00	0.00
272.00	1.20	0.06	0.00	0.00
273.00	1.20	0.06	0.00	0.00
274.00	1.20	0.06	0.00	0.00
275.00	1.20	0.06	0.00	0.00
276.00	1.20	0.06	0.00	0.00
277.00	1.20	0.06	0.00	0.00
278.00	1.20	0.06	0.00	0.00
279.00	1.20	0.06	0.00	0.00
280.00	1.20	0.06	0.00	0.00
281.00	1.20	0.06	0.00	0.00
282.00	1.20	0.06	0.00	0.00
283.00	1.20	0.06	0.00	0.00
284.00	1.20	0.06	0.00	0.00
285.00	1.20	0.06	0.00	0.00
286.00	1.20	0.06	0.00	0.00
287.00	1.20	0.06	0.00	0.00
288.00	1.20	0.06	0.00	0.00
289.00	1.20	0.06	0.00	0.00
290.00	1.20	0.06	0.00	0.00
291.00	1.20	0.06	0.00	0.00
292.00	1.20	0.06	0.00	0.00
293.00	1.20	0.06	0.00	0.00
294.00	1.20	0.06	0.00	0.00
295.00	1.20	0.06	0.00	0.00
296.00	1.20	0.06	0.00	0.00
297.00	1.20	0.06	0.00	0.00
298.00	1.20	0.06	0.00	0.00
299.00	1.20	0.06	0.00	0.00
300.00	1.20	0.06	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Prepared by VU for PADEP

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Summary for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Runoff = 1.79 cfs @ 1.11 hrs, Volume= 0.053 af, Depth= 0.99"

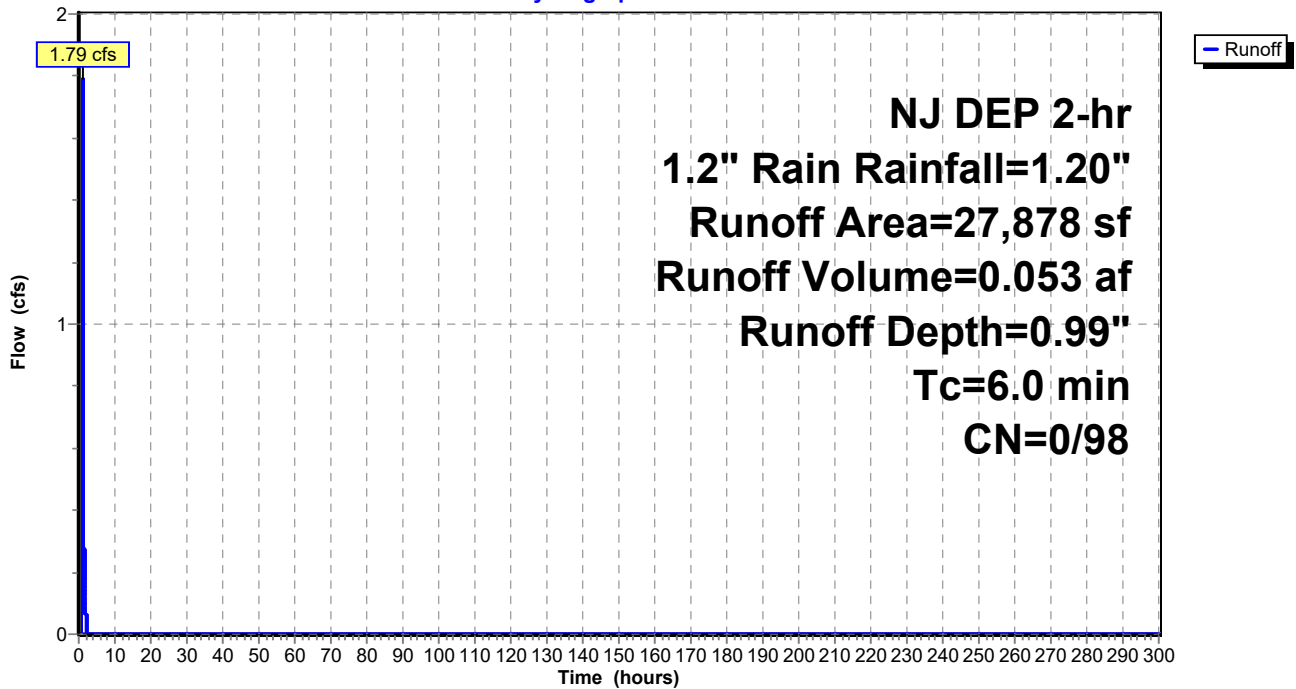
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

Area (sf)	CN	Description
27,878	98	Paved roads w/curbs & sewers, HSG B
27,878	98	100.00% Impervious Area

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

Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Hydrograph



MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.60	0.00	0.41	1.13
2.00	1.20	0.00	0.99	0.06
3.00	1.20	0.00	0.99	0.00
4.00	1.20	0.00	0.99	0.00
5.00	1.20	0.00	0.99	0.00
6.00	1.20	0.00	0.99	0.00
7.00	1.20	0.00	0.99	0.00
8.00	1.20	0.00	0.99	0.00
9.00	1.20	0.00	0.99	0.00
10.00	1.20	0.00	0.99	0.00
11.00	1.20	0.00	0.99	0.00
12.00	1.20	0.00	0.99	0.00
13.00	1.20	0.00	0.99	0.00
14.00	1.20	0.00	0.99	0.00
15.00	1.20	0.00	0.99	0.00
16.00	1.20	0.00	0.99	0.00
17.00	1.20	0.00	0.99	0.00
18.00	1.20	0.00	0.99	0.00
19.00	1.20	0.00	0.99	0.00
20.00	1.20	0.00	0.99	0.00
21.00	1.20	0.00	0.99	0.00
22.00	1.20	0.00	0.99	0.00
23.00	1.20	0.00	0.99	0.00
24.00	1.20	0.00	0.99	0.00
25.00	1.20	0.00	0.99	0.00
26.00	1.20	0.00	0.99	0.00
27.00	1.20	0.00	0.99	0.00
28.00	1.20	0.00	0.99	0.00
29.00	1.20	0.00	0.99	0.00
30.00	1.20	0.00	0.99	0.00
31.00	1.20	0.00	0.99	0.00
32.00	1.20	0.00	0.99	0.00
33.00	1.20	0.00	0.99	0.00
34.00	1.20	0.00	0.99	0.00
35.00	1.20	0.00	0.99	0.00
36.00	1.20	0.00	0.99	0.00
37.00	1.20	0.00	0.99	0.00
38.00	1.20	0.00	0.99	0.00
39.00	1.20	0.00	0.99	0.00
40.00	1.20	0.00	0.99	0.00
41.00	1.20	0.00	0.99	0.00
42.00	1.20	0.00	0.99	0.00
43.00	1.20	0.00	0.99	0.00
44.00	1.20	0.00	0.99	0.00
45.00	1.20	0.00	0.99	0.00
46.00	1.20	0.00	0.99	0.00
47.00	1.20	0.00	0.99	0.00
48.00	1.20	0.00	0.99	0.00
49.00	1.20	0.00	0.99	0.00
50.00	1.20	0.00	0.99	0.00
51.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.20	0.00	0.99	0.00
53.00	1.20	0.00	0.99	0.00
54.00	1.20	0.00	0.99	0.00
55.00	1.20	0.00	0.99	0.00
56.00	1.20	0.00	0.99	0.00
57.00	1.20	0.00	0.99	0.00
58.00	1.20	0.00	0.99	0.00
59.00	1.20	0.00	0.99	0.00
60.00	1.20	0.00	0.99	0.00
61.00	1.20	0.00	0.99	0.00
62.00	1.20	0.00	0.99	0.00
63.00	1.20	0.00	0.99	0.00
64.00	1.20	0.00	0.99	0.00
65.00	1.20	0.00	0.99	0.00
66.00	1.20	0.00	0.99	0.00
67.00	1.20	0.00	0.99	0.00
68.00	1.20	0.00	0.99	0.00
69.00	1.20	0.00	0.99	0.00
70.00	1.20	0.00	0.99	0.00
71.00	1.20	0.00	0.99	0.00
72.00	1.20	0.00	0.99	0.00
73.00	1.20	0.00	0.99	0.00
74.00	1.20	0.00	0.99	0.00
75.00	1.20	0.00	0.99	0.00
76.00	1.20	0.00	0.99	0.00
77.00	1.20	0.00	0.99	0.00
78.00	1.20	0.00	0.99	0.00
79.00	1.20	0.00	0.99	0.00
80.00	1.20	0.00	0.99	0.00
81.00	1.20	0.00	0.99	0.00
82.00	1.20	0.00	0.99	0.00
83.00	1.20	0.00	0.99	0.00
84.00	1.20	0.00	0.99	0.00
85.00	1.20	0.00	0.99	0.00
86.00	1.20	0.00	0.99	0.00
87.00	1.20	0.00	0.99	0.00
88.00	1.20	0.00	0.99	0.00
89.00	1.20	0.00	0.99	0.00
90.00	1.20	0.00	0.99	0.00
91.00	1.20	0.00	0.99	0.00
92.00	1.20	0.00	0.99	0.00
93.00	1.20	0.00	0.99	0.00
94.00	1.20	0.00	0.99	0.00
95.00	1.20	0.00	0.99	0.00
96.00	1.20	0.00	0.99	0.00
97.00	1.20	0.00	0.99	0.00
98.00	1.20	0.00	0.99	0.00
99.00	1.20	0.00	0.99	0.00
100.00	1.20	0.00	0.99	0.00
101.00	1.20	0.00	0.99	0.00
102.00	1.20	0.00	0.99	0.00
103.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	1.20	0.00	0.99	0.00
105.00	1.20	0.00	0.99	0.00
106.00	1.20	0.00	0.99	0.00
107.00	1.20	0.00	0.99	0.00
108.00	1.20	0.00	0.99	0.00
109.00	1.20	0.00	0.99	0.00
110.00	1.20	0.00	0.99	0.00
111.00	1.20	0.00	0.99	0.00
112.00	1.20	0.00	0.99	0.00
113.00	1.20	0.00	0.99	0.00
114.00	1.20	0.00	0.99	0.00
115.00	1.20	0.00	0.99	0.00
116.00	1.20	0.00	0.99	0.00
117.00	1.20	0.00	0.99	0.00
118.00	1.20	0.00	0.99	0.00
119.00	1.20	0.00	0.99	0.00
120.00	1.20	0.00	0.99	0.00
121.00	1.20	0.00	0.99	0.00
122.00	1.20	0.00	0.99	0.00
123.00	1.20	0.00	0.99	0.00
124.00	1.20	0.00	0.99	0.00
125.00	1.20	0.00	0.99	0.00
126.00	1.20	0.00	0.99	0.00
127.00	1.20	0.00	0.99	0.00
128.00	1.20	0.00	0.99	0.00
129.00	1.20	0.00	0.99	0.00
130.00	1.20	0.00	0.99	0.00
131.00	1.20	0.00	0.99	0.00
132.00	1.20	0.00	0.99	0.00
133.00	1.20	0.00	0.99	0.00
134.00	1.20	0.00	0.99	0.00
135.00	1.20	0.00	0.99	0.00
136.00	1.20	0.00	0.99	0.00
137.00	1.20	0.00	0.99	0.00
138.00	1.20	0.00	0.99	0.00
139.00	1.20	0.00	0.99	0.00
140.00	1.20	0.00	0.99	0.00
141.00	1.20	0.00	0.99	0.00
142.00	1.20	0.00	0.99	0.00
143.00	1.20	0.00	0.99	0.00
144.00	1.20	0.00	0.99	0.00
145.00	1.20	0.00	0.99	0.00
146.00	1.20	0.00	0.99	0.00
147.00	1.20	0.00	0.99	0.00
148.00	1.20	0.00	0.99	0.00
149.00	1.20	0.00	0.99	0.00
150.00	1.20	0.00	0.99	0.00
151.00	1.20	0.00	0.99	0.00
152.00	1.20	0.00	0.99	0.00
153.00	1.20	0.00	0.99	0.00
154.00	1.20	0.00	0.99	0.00
155.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	1.20	0.00	0.99	0.00
157.00	1.20	0.00	0.99	0.00
158.00	1.20	0.00	0.99	0.00
159.00	1.20	0.00	0.99	0.00
160.00	1.20	0.00	0.99	0.00
161.00	1.20	0.00	0.99	0.00
162.00	1.20	0.00	0.99	0.00
163.00	1.20	0.00	0.99	0.00
164.00	1.20	0.00	0.99	0.00
165.00	1.20	0.00	0.99	0.00
166.00	1.20	0.00	0.99	0.00
167.00	1.20	0.00	0.99	0.00
168.00	1.20	0.00	0.99	0.00
169.00	1.20	0.00	0.99	0.00
170.00	1.20	0.00	0.99	0.00
171.00	1.20	0.00	0.99	0.00
172.00	1.20	0.00	0.99	0.00
173.00	1.20	0.00	0.99	0.00
174.00	1.20	0.00	0.99	0.00
175.00	1.20	0.00	0.99	0.00
176.00	1.20	0.00	0.99	0.00
177.00	1.20	0.00	0.99	0.00
178.00	1.20	0.00	0.99	0.00
179.00	1.20	0.00	0.99	0.00
180.00	1.20	0.00	0.99	0.00
181.00	1.20	0.00	0.99	0.00
182.00	1.20	0.00	0.99	0.00
183.00	1.20	0.00	0.99	0.00
184.00	1.20	0.00	0.99	0.00
185.00	1.20	0.00	0.99	0.00
186.00	1.20	0.00	0.99	0.00
187.00	1.20	0.00	0.99	0.00
188.00	1.20	0.00	0.99	0.00
189.00	1.20	0.00	0.99	0.00
190.00	1.20	0.00	0.99	0.00
191.00	1.20	0.00	0.99	0.00
192.00	1.20	0.00	0.99	0.00
193.00	1.20	0.00	0.99	0.00
194.00	1.20	0.00	0.99	0.00
195.00	1.20	0.00	0.99	0.00
196.00	1.20	0.00	0.99	0.00
197.00	1.20	0.00	0.99	0.00
198.00	1.20	0.00	0.99	0.00
199.00	1.20	0.00	0.99	0.00
200.00	1.20	0.00	0.99	0.00
201.00	1.20	0.00	0.99	0.00
202.00	1.20	0.00	0.99	0.00
203.00	1.20	0.00	0.99	0.00
204.00	1.20	0.00	0.99	0.00
205.00	1.20	0.00	0.99	0.00
206.00	1.20	0.00	0.99	0.00
207.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	1.20	0.00	0.99	0.00
209.00	1.20	0.00	0.99	0.00
210.00	1.20	0.00	0.99	0.00
211.00	1.20	0.00	0.99	0.00
212.00	1.20	0.00	0.99	0.00
213.00	1.20	0.00	0.99	0.00
214.00	1.20	0.00	0.99	0.00
215.00	1.20	0.00	0.99	0.00
216.00	1.20	0.00	0.99	0.00
217.00	1.20	0.00	0.99	0.00
218.00	1.20	0.00	0.99	0.00
219.00	1.20	0.00	0.99	0.00
220.00	1.20	0.00	0.99	0.00
221.00	1.20	0.00	0.99	0.00
222.00	1.20	0.00	0.99	0.00
223.00	1.20	0.00	0.99	0.00
224.00	1.20	0.00	0.99	0.00
225.00	1.20	0.00	0.99	0.00
226.00	1.20	0.00	0.99	0.00
227.00	1.20	0.00	0.99	0.00
228.00	1.20	0.00	0.99	0.00
229.00	1.20	0.00	0.99	0.00
230.00	1.20	0.00	0.99	0.00
231.00	1.20	0.00	0.99	0.00
232.00	1.20	0.00	0.99	0.00
233.00	1.20	0.00	0.99	0.00
234.00	1.20	0.00	0.99	0.00
235.00	1.20	0.00	0.99	0.00
236.00	1.20	0.00	0.99	0.00
237.00	1.20	0.00	0.99	0.00
238.00	1.20	0.00	0.99	0.00
239.00	1.20	0.00	0.99	0.00
240.00	1.20	0.00	0.99	0.00
241.00	1.20	0.00	0.99	0.00
242.00	1.20	0.00	0.99	0.00
243.00	1.20	0.00	0.99	0.00
244.00	1.20	0.00	0.99	0.00
245.00	1.20	0.00	0.99	0.00
246.00	1.20	0.00	0.99	0.00
247.00	1.20	0.00	0.99	0.00
248.00	1.20	0.00	0.99	0.00
249.00	1.20	0.00	0.99	0.00
250.00	1.20	0.00	0.99	0.00
251.00	1.20	0.00	0.99	0.00
252.00	1.20	0.00	0.99	0.00
253.00	1.20	0.00	0.99	0.00
254.00	1.20	0.00	0.99	0.00
255.00	1.20	0.00	0.99	0.00
256.00	1.20	0.00	0.99	0.00
257.00	1.20	0.00	0.99	0.00
258.00	1.20	0.00	0.99	0.00
259.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	1.20	0.00	0.99	0.00
261.00	1.20	0.00	0.99	0.00
262.00	1.20	0.00	0.99	0.00
263.00	1.20	0.00	0.99	0.00
264.00	1.20	0.00	0.99	0.00
265.00	1.20	0.00	0.99	0.00
266.00	1.20	0.00	0.99	0.00
267.00	1.20	0.00	0.99	0.00
268.00	1.20	0.00	0.99	0.00
269.00	1.20	0.00	0.99	0.00
270.00	1.20	0.00	0.99	0.00
271.00	1.20	0.00	0.99	0.00
272.00	1.20	0.00	0.99	0.00
273.00	1.20	0.00	0.99	0.00
274.00	1.20	0.00	0.99	0.00
275.00	1.20	0.00	0.99	0.00
276.00	1.20	0.00	0.99	0.00
277.00	1.20	0.00	0.99	0.00
278.00	1.20	0.00	0.99	0.00
279.00	1.20	0.00	0.99	0.00
280.00	1.20	0.00	0.99	0.00
281.00	1.20	0.00	0.99	0.00
282.00	1.20	0.00	0.99	0.00
283.00	1.20	0.00	0.99	0.00
284.00	1.20	0.00	0.99	0.00
285.00	1.20	0.00	0.99	0.00
286.00	1.20	0.00	0.99	0.00
287.00	1.20	0.00	0.99	0.00
288.00	1.20	0.00	0.99	0.00
289.00	1.20	0.00	0.99	0.00
290.00	1.20	0.00	0.99	0.00
291.00	1.20	0.00	0.99	0.00
292.00	1.20	0.00	0.99	0.00
293.00	1.20	0.00	0.99	0.00
294.00	1.20	0.00	0.99	0.00
295.00	1.20	0.00	0.99	0.00
296.00	1.20	0.00	0.99	0.00
297.00	1.20	0.00	0.99	0.00
298.00	1.20	0.00	0.99	0.00
299.00	1.20	0.00	0.99	0.00
300.00	1.20	0.00	0.99	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Summary for Pond 1P: Managed Release Pemeable Pavement

50% IWS routing modeled with a 0.30*50% = 0.15 void space

Inflow Area =	0.800 ac, 80.00% Impervious, Inflow Depth = 0.82" for 1.2" Rain event
Inflow =	1.83 cfs @ 1.11 hrs, Volume= 0.054 af
Outflow =	0.01 cfs @ 2.14 hrs, Volume= 0.053 af, Atten= 99%, Lag= 61.7 min
Discarded =	0.00 cfs @ 2.14 hrs, Volume= 0.020 af
Primary =	0.01 cfs @ 2.14 hrs, Volume= 0.033 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Tertiary =	0.00 cfs @ 2.14 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 Peak Elev= -2.09' @ 2.14 hrs Surf.Area= 3,049 sf Storage= 2,335 cf

Plug-Flow detention time= 4,470.6 min calculated for 0.053 af (98% of inflow)
 Center-of-Mass det. time= 4,469.5 min (4,540.3 - 70.8)

Volume	Invert	Avail.Storage	Storage Description
#1	-4.50'	4,884 cf	Storage bed (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
-4.50	3,049	0.0	0	0
-3.51	3,049	20.0	604	604
-2.00	3,049	40.0	1,842	2,445
0.00	3,049	40.0	2,439	4,884

Device	Routing	Invert	Outlet Devices
#1	Primary	-3.50'	0.5" Vert. Orifice/Grate C= 0.600
#2	Secondary	-0.50'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#3	Discarded	-4.50'	0.010 in/hr Infiltration (minimal) over Horizontal area Conductivity to Groundwater Elevation = -10.00'
#4	Tertiary	-2.10'	2.5" Vert. Orifice/Grate C= 0.600

Discarded OutFlow Max=0.00 cfs @ 2.14 hrs HW=-2.09' (Free Discharge)
 ↑**3=Infiltration (minimal)** (Controls 0.00 cfs)

Primary OutFlow Max=0.01 cfs @ 2.14 hrs HW=-2.09' (Free Discharge)
 ↑**1=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.67 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=-4.50' (Free Discharge)
 ↑**2=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)

Tertiary OutFlow Max=0.00 cfs @ 2.14 hrs HW=-2.09' (Free Discharge)
 ↑**4=Orifice/Grate** (Orifice Controls 0.00 cfs @ 0.33 fps)

MRC Example 3

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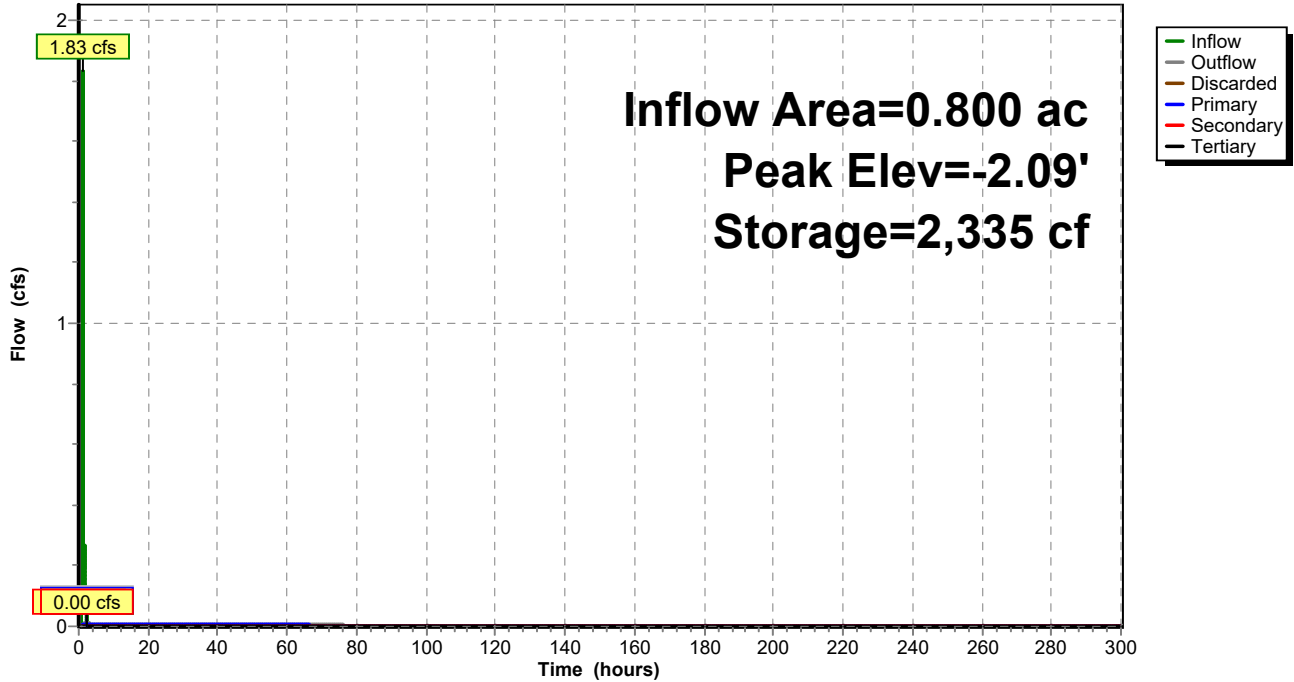
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NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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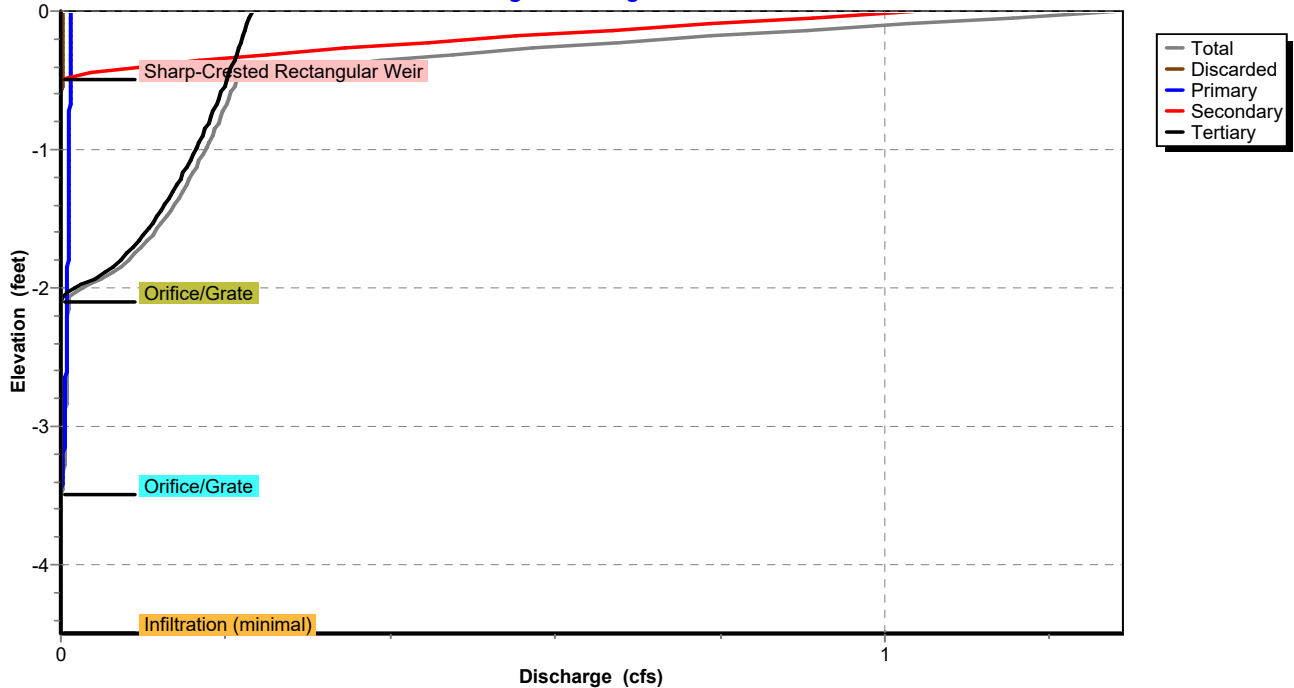
Pond 1P: Managed Release Pemeable Pavement

Hydrograph



Pond 1P: Managed Release Pemeable Pavement

Stage-Discharge



MRC Example 3

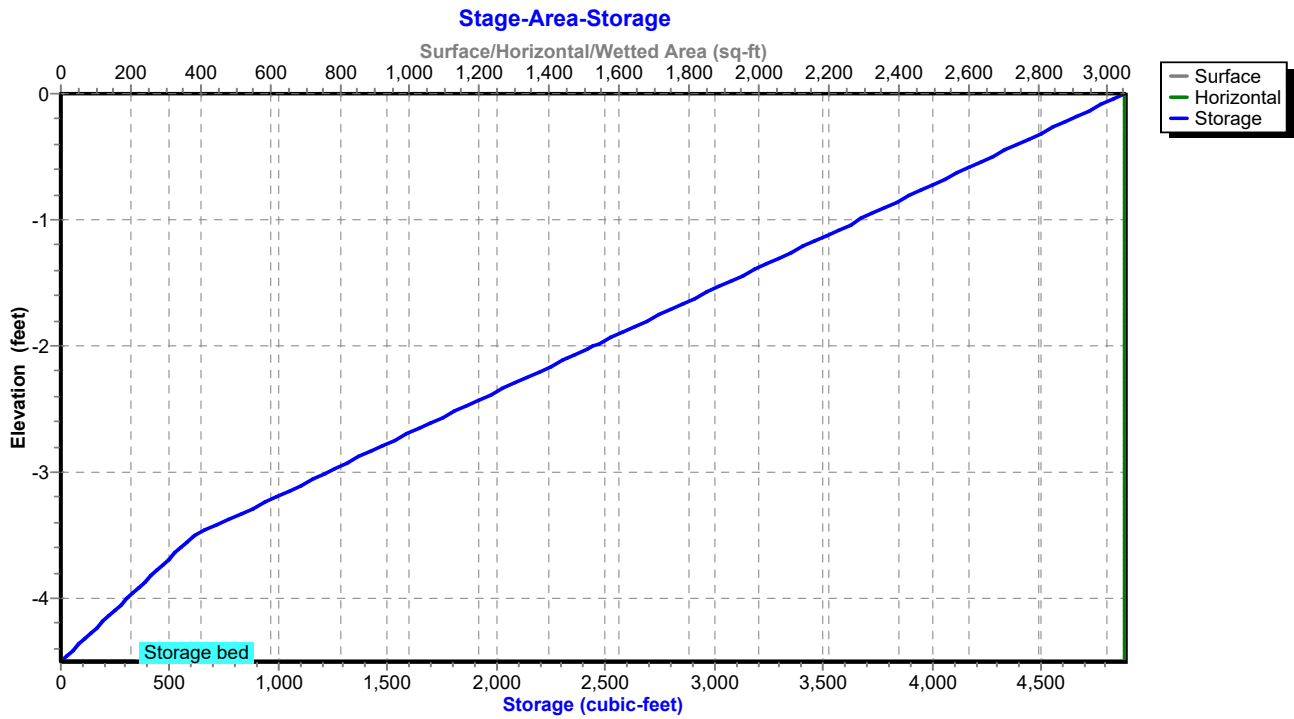
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NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Pond 1P: Managed Release Pemeable Pavement



MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
0.00	0.00	0	-4.50	0.00	0.00	0.00	0.00	0.00
1.00	1.13	450	-3.76	0.00	0.00	0.00	0.00	0.00
2.00	0.07	2,318	-2.10	0.01	0.00	0.01	0.00	0.00
3.00	0.00	2,308	-2.11	0.01	0.00	0.01	0.00	0.00
4.00	0.00	2,277	-2.14	0.01	0.00	0.01	0.00	0.00
5.00	0.00	2,246	-2.16	0.01	0.00	0.01	0.00	0.00
6.00	0.00	2,216	-2.19	0.01	0.00	0.01	0.00	0.00
7.00	0.00	2,185	-2.21	0.01	0.00	0.01	0.00	0.00
8.00	0.00	2,155	-2.24	0.01	0.00	0.01	0.00	0.00
9.00	0.00	2,126	-2.26	0.01	0.00	0.01	0.00	0.00
10.00	0.00	2,096	-2.29	0.01	0.00	0.01	0.00	0.00
11.00	0.00	2,067	-2.31	0.01	0.00	0.01	0.00	0.00
12.00	0.00	2,038	-2.33	0.01	0.00	0.01	0.00	0.00
13.00	0.00	2,009	-2.36	0.01	0.00	0.01	0.00	0.00
14.00	0.00	1,981	-2.38	0.01	0.00	0.01	0.00	0.00
15.00	0.00	1,953	-2.40	0.01	0.00	0.01	0.00	0.00
16.00	0.00	1,925	-2.43	0.01	0.00	0.01	0.00	0.00
17.00	0.00	1,897	-2.45	0.01	0.00	0.01	0.00	0.00
18.00	0.00	1,870	-2.47	0.01	0.00	0.01	0.00	0.00
19.00	0.00	1,843	-2.49	0.01	0.00	0.01	0.00	0.00
20.00	0.00	1,816	-2.52	0.01	0.00	0.01	0.00	0.00
21.00	0.00	1,789	-2.54	0.01	0.00	0.01	0.00	0.00
22.00	0.00	1,763	-2.56	0.01	0.00	0.01	0.00	0.00
23.00	0.00	1,737	-2.58	0.01	0.00	0.01	0.00	0.00
24.00	0.00	1,712	-2.60	0.01	0.00	0.01	0.00	0.00
25.00	0.00	1,686	-2.62	0.01	0.00	0.01	0.00	0.00
26.00	0.00	1,661	-2.64	0.01	0.00	0.01	0.00	0.00
27.00	0.00	1,636	-2.66	0.01	0.00	0.01	0.00	0.00
28.00	0.00	1,611	-2.68	0.01	0.00	0.01	0.00	0.00
29.00	0.00	1,587	-2.70	0.01	0.00	0.01	0.00	0.00
30.00	0.00	1,563	-2.72	0.01	0.00	0.01	0.00	0.00
31.00	0.00	1,539	-2.74	0.01	0.00	0.01	0.00	0.00
32.00	0.00	1,516	-2.76	0.01	0.00	0.01	0.00	0.00
33.00	0.00	1,493	-2.78	0.01	0.00	0.01	0.00	0.00
34.00	0.00	1,470	-2.80	0.01	0.00	0.01	0.00	0.00
35.00	0.00	1,447	-2.82	0.01	0.00	0.01	0.00	0.00
36.00	0.00	1,425	-2.84	0.01	0.00	0.01	0.00	0.00
37.00	0.00	1,403	-2.86	0.01	0.00	0.01	0.00	0.00
38.00	0.00	1,381	-2.87	0.01	0.00	0.01	0.00	0.00
39.00	0.00	1,359	-2.89	0.01	0.00	0.01	0.00	0.00
40.00	0.00	1,338	-2.91	0.01	0.00	0.00	0.00	0.00
41.00	0.00	1,317	-2.93	0.01	0.00	0.00	0.00	0.00
42.00	0.00	1,296	-2.94	0.01	0.00	0.00	0.00	0.00
43.00	0.00	1,276	-2.96	0.01	0.00	0.00	0.00	0.00
44.00	0.00	1,256	-2.98	0.01	0.00	0.00	0.00	0.00
45.00	0.00	1,236	-2.99	0.01	0.00	0.00	0.00	0.00
46.00	0.00	1,216	-3.01	0.01	0.00	0.00	0.00	0.00
47.00	0.00	1,197	-3.02	0.01	0.00	0.00	0.00	0.00
48.00	0.00	1,178	-3.04	0.01	0.00	0.00	0.00	0.00
49.00	0.00	1,159	-3.05	0.01	0.00	0.00	0.00	0.00
50.00	0.00	1,141	-3.07	0.01	0.00	0.00	0.00	0.00
51.00	0.00	1,122	-3.08	0.01	0.00	0.00	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
52.00	0.00	1,104	-3.10	0.00	0.00	0.00	0.00	0.00
53.00	0.00	1,087	-3.11	0.00	0.00	0.00	0.00	0.00
54.00	0.00	1,070	-3.13	0.00	0.00	0.00	0.00	0.00
55.00	0.00	1,053	-3.14	0.00	0.00	0.00	0.00	0.00
56.00	0.00	1,036	-3.16	0.00	0.00	0.00	0.00	0.00
57.00	0.00	1,019	-3.17	0.00	0.00	0.00	0.00	0.00
58.00	0.00	1,003	-3.18	0.00	0.00	0.00	0.00	0.00
59.00	0.00	987	-3.20	0.00	0.00	0.00	0.00	0.00
60.00	0.00	972	-3.21	0.00	0.00	0.00	0.00	0.00
61.00	0.00	956	-3.22	0.00	0.00	0.00	0.00	0.00
62.00	0.00	941	-3.23	0.00	0.00	0.00	0.00	0.00
63.00	0.00	927	-3.25	0.00	0.00	0.00	0.00	0.00
64.00	0.00	912	-3.26	0.00	0.00	0.00	0.00	0.00
65.00	0.00	898	-3.27	0.00	0.00	0.00	0.00	0.00
66.00	0.00	884	-3.28	0.00	0.00	0.00	0.00	0.00
67.00	0.00	871	-3.29	0.00	0.00	0.00	0.00	0.00
68.00	0.00	858	-3.30	0.00	0.00	0.00	0.00	0.00
69.00	0.00	845	-3.31	0.00	0.00	0.00	0.00	0.00
70.00	0.00	832	-3.32	0.00	0.00	0.00	0.00	0.00
71.00	0.00	820	-3.33	0.00	0.00	0.00	0.00	0.00
72.00	0.00	808	-3.34	0.00	0.00	0.00	0.00	0.00
73.00	0.00	796	-3.35	0.00	0.00	0.00	0.00	0.00
74.00	0.00	785	-3.36	0.00	0.00	0.00	0.00	0.00
75.00	0.00	774	-3.37	0.00	0.00	0.00	0.00	0.00
76.00	0.00	763	-3.38	0.00	0.00	0.00	0.00	0.00
77.00	0.00	753	-3.39	0.00	0.00	0.00	0.00	0.00
78.00	0.00	743	-3.40	0.00	0.00	0.00	0.00	0.00
79.00	0.00	733	-3.40	0.00	0.00	0.00	0.00	0.00
80.00	0.00	724	-3.41	0.00	0.00	0.00	0.00	0.00
81.00	0.00	715	-3.42	0.00	0.00	0.00	0.00	0.00
82.00	0.00	707	-3.43	0.00	0.00	0.00	0.00	0.00
83.00	0.00	698	-3.43	0.00	0.00	0.00	0.00	0.00
84.00	0.00	691	-3.44	0.00	0.00	0.00	0.00	0.00
85.00	0.00	683	-3.44	0.00	0.00	0.00	0.00	0.00
86.00	0.00	676	-3.45	0.00	0.00	0.00	0.00	0.00
87.00	0.00	670	-3.46	0.00	0.00	0.00	0.00	0.00
88.00	0.00	663	-3.46	0.00	0.00	0.00	0.00	0.00
89.00	0.00	657	-3.47	0.00	0.00	0.00	0.00	0.00
90.00	0.00	652	-3.47	0.00	0.00	0.00	0.00	0.00
91.00	0.00	647	-3.47	0.00	0.00	0.00	0.00	0.00
92.00	0.00	642	-3.48	0.00	0.00	0.00	0.00	0.00
93.00	0.00	637	-3.48	0.00	0.00	0.00	0.00	0.00
94.00	0.00	633	-3.49	0.00	0.00	0.00	0.00	0.00
95.00	0.00	629	-3.49	0.00	0.00	0.00	0.00	0.00
96.00	0.00	625	-3.49	0.00	0.00	0.00	0.00	0.00
97.00	0.00	622	-3.50	0.00	0.00	0.00	0.00	0.00
98.00	0.00	618	-3.50	0.00	0.00	0.00	0.00	0.00
99.00	0.00	615	-3.50	0.00	0.00	0.00	0.00	0.00
100.00	0.00	612	-3.50	0.00	0.00	0.00	0.00	0.00
101.00	0.00	609	-3.51	0.00	0.00	0.00	0.00	0.00
102.00	0.00	606	-3.51	0.00	0.00	0.00	0.00	0.00
103.00	0.00	603	-3.51	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
104.00	0.00	600	-3.52	0.00	0.00	0.00	0.00	0.00
105.00	0.00	597	-3.52	0.00	0.00	0.00	0.00	0.00
106.00	0.00	594	-3.53	0.00	0.00	0.00	0.00	0.00
107.00	0.00	591	-3.53	0.00	0.00	0.00	0.00	0.00
108.00	0.00	588	-3.54	0.00	0.00	0.00	0.00	0.00
109.00	0.00	585	-3.54	0.00	0.00	0.00	0.00	0.00
110.00	0.00	582	-3.54	0.00	0.00	0.00	0.00	0.00
111.00	0.00	579	-3.55	0.00	0.00	0.00	0.00	0.00
112.00	0.00	577	-3.55	0.00	0.00	0.00	0.00	0.00
113.00	0.00	574	-3.56	0.00	0.00	0.00	0.00	0.00
114.00	0.00	571	-3.56	0.00	0.00	0.00	0.00	0.00
115.00	0.00	568	-3.57	0.00	0.00	0.00	0.00	0.00
116.00	0.00	565	-3.57	0.00	0.00	0.00	0.00	0.00
117.00	0.00	562	-3.58	0.00	0.00	0.00	0.00	0.00
118.00	0.00	559	-3.58	0.00	0.00	0.00	0.00	0.00
119.00	0.00	556	-3.59	0.00	0.00	0.00	0.00	0.00
120.00	0.00	553	-3.59	0.00	0.00	0.00	0.00	0.00
121.00	0.00	550	-3.60	0.00	0.00	0.00	0.00	0.00
122.00	0.00	547	-3.60	0.00	0.00	0.00	0.00	0.00
123.00	0.00	544	-3.61	0.00	0.00	0.00	0.00	0.00
124.00	0.00	541	-3.61	0.00	0.00	0.00	0.00	0.00
125.00	0.00	538	-3.62	0.00	0.00	0.00	0.00	0.00
126.00	0.00	535	-3.62	0.00	0.00	0.00	0.00	0.00
127.00	0.00	532	-3.63	0.00	0.00	0.00	0.00	0.00
128.00	0.00	529	-3.63	0.00	0.00	0.00	0.00	0.00
129.00	0.00	526	-3.64	0.00	0.00	0.00	0.00	0.00
130.00	0.00	523	-3.64	0.00	0.00	0.00	0.00	0.00
131.00	0.00	520	-3.65	0.00	0.00	0.00	0.00	0.00
132.00	0.00	517	-3.65	0.00	0.00	0.00	0.00	0.00
133.00	0.00	514	-3.66	0.00	0.00	0.00	0.00	0.00
134.00	0.00	512	-3.66	0.00	0.00	0.00	0.00	0.00
135.00	0.00	509	-3.67	0.00	0.00	0.00	0.00	0.00
136.00	0.00	506	-3.67	0.00	0.00	0.00	0.00	0.00
137.00	0.00	503	-3.68	0.00	0.00	0.00	0.00	0.00
138.00	0.00	500	-3.68	0.00	0.00	0.00	0.00	0.00
139.00	0.00	497	-3.69	0.00	0.00	0.00	0.00	0.00
140.00	0.00	494	-3.69	0.00	0.00	0.00	0.00	0.00
141.00	0.00	491	-3.69	0.00	0.00	0.00	0.00	0.00
142.00	0.00	488	-3.70	0.00	0.00	0.00	0.00	0.00
143.00	0.00	485	-3.70	0.00	0.00	0.00	0.00	0.00
144.00	0.00	482	-3.71	0.00	0.00	0.00	0.00	0.00
145.00	0.00	479	-3.71	0.00	0.00	0.00	0.00	0.00
146.00	0.00	477	-3.72	0.00	0.00	0.00	0.00	0.00
147.00	0.00	474	-3.72	0.00	0.00	0.00	0.00	0.00
148.00	0.00	471	-3.73	0.00	0.00	0.00	0.00	0.00
149.00	0.00	468	-3.73	0.00	0.00	0.00	0.00	0.00
150.00	0.00	465	-3.74	0.00	0.00	0.00	0.00	0.00
151.00	0.00	462	-3.74	0.00	0.00	0.00	0.00	0.00
152.00	0.00	459	-3.75	0.00	0.00	0.00	0.00	0.00
153.00	0.00	456	-3.75	0.00	0.00	0.00	0.00	0.00
154.00	0.00	453	-3.76	0.00	0.00	0.00	0.00	0.00
155.00	0.00	451	-3.76	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
156.00	0.00	448	-3.77	0.00	0.00	0.00	0.00	0.00
157.00	0.00	445	-3.77	0.00	0.00	0.00	0.00	0.00
158.00	0.00	442	-3.78	0.00	0.00	0.00	0.00	0.00
159.00	0.00	439	-3.78	0.00	0.00	0.00	0.00	0.00
160.00	0.00	436	-3.78	0.00	0.00	0.00	0.00	0.00
161.00	0.00	433	-3.79	0.00	0.00	0.00	0.00	0.00
162.00	0.00	430	-3.79	0.00	0.00	0.00	0.00	0.00
163.00	0.00	428	-3.80	0.00	0.00	0.00	0.00	0.00
164.00	0.00	425	-3.80	0.00	0.00	0.00	0.00	0.00
165.00	0.00	422	-3.81	0.00	0.00	0.00	0.00	0.00
166.00	0.00	419	-3.81	0.00	0.00	0.00	0.00	0.00
167.00	0.00	416	-3.82	0.00	0.00	0.00	0.00	0.00
168.00	0.00	413	-3.82	0.00	0.00	0.00	0.00	0.00
169.00	0.00	410	-3.83	0.00	0.00	0.00	0.00	0.00
170.00	0.00	408	-3.83	0.00	0.00	0.00	0.00	0.00
171.00	0.00	405	-3.84	0.00	0.00	0.00	0.00	0.00
172.00	0.00	402	-3.84	0.00	0.00	0.00	0.00	0.00
173.00	0.00	399	-3.85	0.00	0.00	0.00	0.00	0.00
174.00	0.00	396	-3.85	0.00	0.00	0.00	0.00	0.00
175.00	0.00	393	-3.85	0.00	0.00	0.00	0.00	0.00
176.00	0.00	390	-3.86	0.00	0.00	0.00	0.00	0.00
177.00	0.00	388	-3.86	0.00	0.00	0.00	0.00	0.00
178.00	0.00	385	-3.87	0.00	0.00	0.00	0.00	0.00
179.00	0.00	382	-3.87	0.00	0.00	0.00	0.00	0.00
180.00	0.00	379	-3.88	0.00	0.00	0.00	0.00	0.00
181.00	0.00	376	-3.88	0.00	0.00	0.00	0.00	0.00
182.00	0.00	374	-3.89	0.00	0.00	0.00	0.00	0.00
183.00	0.00	371	-3.89	0.00	0.00	0.00	0.00	0.00
184.00	0.00	368	-3.90	0.00	0.00	0.00	0.00	0.00
185.00	0.00	365	-3.90	0.00	0.00	0.00	0.00	0.00
186.00	0.00	362	-3.91	0.00	0.00	0.00	0.00	0.00
187.00	0.00	359	-3.91	0.00	0.00	0.00	0.00	0.00
188.00	0.00	357	-3.92	0.00	0.00	0.00	0.00	0.00
189.00	0.00	354	-3.92	0.00	0.00	0.00	0.00	0.00
190.00	0.00	351	-3.92	0.00	0.00	0.00	0.00	0.00
191.00	0.00	348	-3.93	0.00	0.00	0.00	0.00	0.00
192.00	0.00	345	-3.93	0.00	0.00	0.00	0.00	0.00
193.00	0.00	343	-3.94	0.00	0.00	0.00	0.00	0.00
194.00	0.00	340	-3.94	0.00	0.00	0.00	0.00	0.00
195.00	0.00	337	-3.95	0.00	0.00	0.00	0.00	0.00
196.00	0.00	334	-3.95	0.00	0.00	0.00	0.00	0.00
197.00	0.00	331	-3.96	0.00	0.00	0.00	0.00	0.00
198.00	0.00	329	-3.96	0.00	0.00	0.00	0.00	0.00
199.00	0.00	326	-3.97	0.00	0.00	0.00	0.00	0.00
200.00	0.00	323	-3.97	0.00	0.00	0.00	0.00	0.00
201.00	0.00	320	-3.97	0.00	0.00	0.00	0.00	0.00
202.00	0.00	317	-3.98	0.00	0.00	0.00	0.00	0.00
203.00	0.00	315	-3.98	0.00	0.00	0.00	0.00	0.00
204.00	0.00	312	-3.99	0.00	0.00	0.00	0.00	0.00
205.00	0.00	309	-3.99	0.00	0.00	0.00	0.00	0.00
206.00	0.00	306	-4.00	0.00	0.00	0.00	0.00	0.00
207.00	0.00	304	-4.00	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
208.00	0.00	301	-4.01	0.00	0.00	0.00	0.00	0.00
209.00	0.00	298	-4.01	0.00	0.00	0.00	0.00	0.00
210.00	0.00	295	-4.02	0.00	0.00	0.00	0.00	0.00
211.00	0.00	293	-4.02	0.00	0.00	0.00	0.00	0.00
212.00	0.00	290	-4.02	0.00	0.00	0.00	0.00	0.00
213.00	0.00	287	-4.03	0.00	0.00	0.00	0.00	0.00
214.00	0.00	284	-4.03	0.00	0.00	0.00	0.00	0.00
215.00	0.00	281	-4.04	0.00	0.00	0.00	0.00	0.00
216.00	0.00	279	-4.04	0.00	0.00	0.00	0.00	0.00
217.00	0.00	276	-4.05	0.00	0.00	0.00	0.00	0.00
218.00	0.00	273	-4.05	0.00	0.00	0.00	0.00	0.00
219.00	0.00	270	-4.06	0.00	0.00	0.00	0.00	0.00
220.00	0.00	268	-4.06	0.00	0.00	0.00	0.00	0.00
221.00	0.00	265	-4.07	0.00	0.00	0.00	0.00	0.00
222.00	0.00	262	-4.07	0.00	0.00	0.00	0.00	0.00
223.00	0.00	260	-4.07	0.00	0.00	0.00	0.00	0.00
224.00	0.00	257	-4.08	0.00	0.00	0.00	0.00	0.00
225.00	0.00	254	-4.08	0.00	0.00	0.00	0.00	0.00
226.00	0.00	251	-4.09	0.00	0.00	0.00	0.00	0.00
227.00	0.00	249	-4.09	0.00	0.00	0.00	0.00	0.00
228.00	0.00	246	-4.10	0.00	0.00	0.00	0.00	0.00
229.00	0.00	243	-4.10	0.00	0.00	0.00	0.00	0.00
230.00	0.00	240	-4.11	0.00	0.00	0.00	0.00	0.00
231.00	0.00	238	-4.11	0.00	0.00	0.00	0.00	0.00
232.00	0.00	235	-4.11	0.00	0.00	0.00	0.00	0.00
233.00	0.00	232	-4.12	0.00	0.00	0.00	0.00	0.00
234.00	0.00	230	-4.12	0.00	0.00	0.00	0.00	0.00
235.00	0.00	227	-4.13	0.00	0.00	0.00	0.00	0.00
236.00	0.00	224	-4.13	0.00	0.00	0.00	0.00	0.00
237.00	0.00	221	-4.14	0.00	0.00	0.00	0.00	0.00
238.00	0.00	219	-4.14	0.00	0.00	0.00	0.00	0.00
239.00	0.00	216	-4.15	0.00	0.00	0.00	0.00	0.00
240.00	0.00	213	-4.15	0.00	0.00	0.00	0.00	0.00
241.00	0.00	211	-4.15	0.00	0.00	0.00	0.00	0.00
242.00	0.00	208	-4.16	0.00	0.00	0.00	0.00	0.00
243.00	0.00	205	-4.16	0.00	0.00	0.00	0.00	0.00
244.00	0.00	202	-4.17	0.00	0.00	0.00	0.00	0.00
245.00	0.00	200	-4.17	0.00	0.00	0.00	0.00	0.00
246.00	0.00	197	-4.18	0.00	0.00	0.00	0.00	0.00
247.00	0.00	194	-4.18	0.00	0.00	0.00	0.00	0.00
248.00	0.00	192	-4.19	0.00	0.00	0.00	0.00	0.00
249.00	0.00	189	-4.19	0.00	0.00	0.00	0.00	0.00
250.00	0.00	186	-4.19	0.00	0.00	0.00	0.00	0.00
251.00	0.00	184	-4.20	0.00	0.00	0.00	0.00	0.00
252.00	0.00	181	-4.20	0.00	0.00	0.00	0.00	0.00
253.00	0.00	178	-4.21	0.00	0.00	0.00	0.00	0.00
254.00	0.00	176	-4.21	0.00	0.00	0.00	0.00	0.00
255.00	0.00	173	-4.22	0.00	0.00	0.00	0.00	0.00
256.00	0.00	170	-4.22	0.00	0.00	0.00	0.00	0.00
257.00	0.00	168	-4.23	0.00	0.00	0.00	0.00	0.00
258.00	0.00	165	-4.23	0.00	0.00	0.00	0.00	0.00
259.00	0.00	162	-4.23	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NJ DEP 2-hr 1.2" Rain Rainfall=1.20"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
260.00	0.00	160	-4.24	0.00	0.00	0.00	0.00	0.00
261.00	0.00	157	-4.24	0.00	0.00	0.00	0.00	0.00
262.00	0.00	154	-4.25	0.00	0.00	0.00	0.00	0.00
263.00	0.00	152	-4.25	0.00	0.00	0.00	0.00	0.00
264.00	0.00	149	-4.26	0.00	0.00	0.00	0.00	0.00
265.00	0.00	146	-4.26	0.00	0.00	0.00	0.00	0.00
266.00	0.00	144	-4.26	0.00	0.00	0.00	0.00	0.00
267.00	0.00	141	-4.27	0.00	0.00	0.00	0.00	0.00
268.00	0.00	138	-4.27	0.00	0.00	0.00	0.00	0.00
269.00	0.00	136	-4.28	0.00	0.00	0.00	0.00	0.00
270.00	0.00	133	-4.28	0.00	0.00	0.00	0.00	0.00
271.00	0.00	130	-4.29	0.00	0.00	0.00	0.00	0.00
272.00	0.00	128	-4.29	0.00	0.00	0.00	0.00	0.00
273.00	0.00	125	-4.29	0.00	0.00	0.00	0.00	0.00
274.00	0.00	123	-4.30	0.00	0.00	0.00	0.00	0.00
275.00	0.00	120	-4.30	0.00	0.00	0.00	0.00	0.00
276.00	0.00	117	-4.31	0.00	0.00	0.00	0.00	0.00
277.00	0.00	115	-4.31	0.00	0.00	0.00	0.00	0.00
278.00	0.00	112	-4.32	0.00	0.00	0.00	0.00	0.00
279.00	0.00	109	-4.32	0.00	0.00	0.00	0.00	0.00
280.00	0.00	107	-4.32	0.00	0.00	0.00	0.00	0.00
281.00	0.00	104	-4.33	0.00	0.00	0.00	0.00	0.00
282.00	0.00	102	-4.33	0.00	0.00	0.00	0.00	0.00
283.00	0.00	99	-4.34	0.00	0.00	0.00	0.00	0.00
284.00	0.00	96	-4.34	0.00	0.00	0.00	0.00	0.00
285.00	0.00	94	-4.35	0.00	0.00	0.00	0.00	0.00
286.00	0.00	91	-4.35	0.00	0.00	0.00	0.00	0.00
287.00	0.00	88	-4.35	0.00	0.00	0.00	0.00	0.00
288.00	0.00	86	-4.36	0.00	0.00	0.00	0.00	0.00
289.00	0.00	83	-4.36	0.00	0.00	0.00	0.00	0.00
290.00	0.00	81	-4.37	0.00	0.00	0.00	0.00	0.00
291.00	0.00	78	-4.37	0.00	0.00	0.00	0.00	0.00
292.00	0.00	75	-4.38	0.00	0.00	0.00	0.00	0.00
293.00	0.00	73	-4.38	0.00	0.00	0.00	0.00	0.00
294.00	0.00	70	-4.38	0.00	0.00	0.00	0.00	0.00
295.00	0.00	68	-4.39	0.00	0.00	0.00	0.00	0.00
296.00	0.00	65	-4.39	0.00	0.00	0.00	0.00	0.00
297.00	0.00	63	-4.40	0.00	0.00	0.00	0.00	0.00
298.00	0.00	60	-4.40	0.00	0.00	0.00	0.00	0.00
299.00	0.00	57	-4.41	0.00	0.00	0.00	0.00	0.00
300.00	0.00	55	-4.41	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Time span=0.00-300.00 hrs, dt=0.01 hrs, 30001 points

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv.

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: 0.8 ac - 80% imp Runoff Area=27,878 sf 100.00% Impervious Runoff Depth=3.03"
Tc=6.0 min CN=0/98 Runoff=2.21 cfs 0.161 af

Subcatchment2S: 0.8 ac - 20% Impevious Runoff Area=6,970 sf 0.00% Impervious Runoff Depth=1.38"
Tc=6.0 min CN=79/0 Runoff=0.29 cfs 0.018 af

Subcatchment3S: 0.8 ac Pervious Runoff Area=34,848 sf 0.00% Impervious Runoff Depth=1.08"
Tc=15.0 min CN=74/0 Runoff=0.80 cfs 0.072 af

Subcatchment4S: 0.8 ac - 80% imp 20% Runoff Area=27,878 sf 100.00% Impervious Runoff Depth=3.03"
Tc=6.0 min CN=0/98 Runoff=2.21 cfs 0.161 af

Pond 1P: Managed Release Pemeable Peak Elev=-0.31' Storage=4,501 cf Inflow=2.50 cfs 0.180 af
s 0.021 af Primary=0.01 cfs 0.044 af Secondary=0.25 cfs 0.011 af Tertiary=0.21 cfs 0.102 af Outflow=0.48 cfs 0.177 af

Total Runoff Area = 2.240 ac Runoff Volume = 0.413 af Average Runoff Depth = 2.21"
42.86% Pervious = 0.960 ac 57.14% Impervious = 1.280 ac

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Runoff = 2.21 cfs @ 12.13 hrs, Volume= 0.161 af, Depth= 3.03"

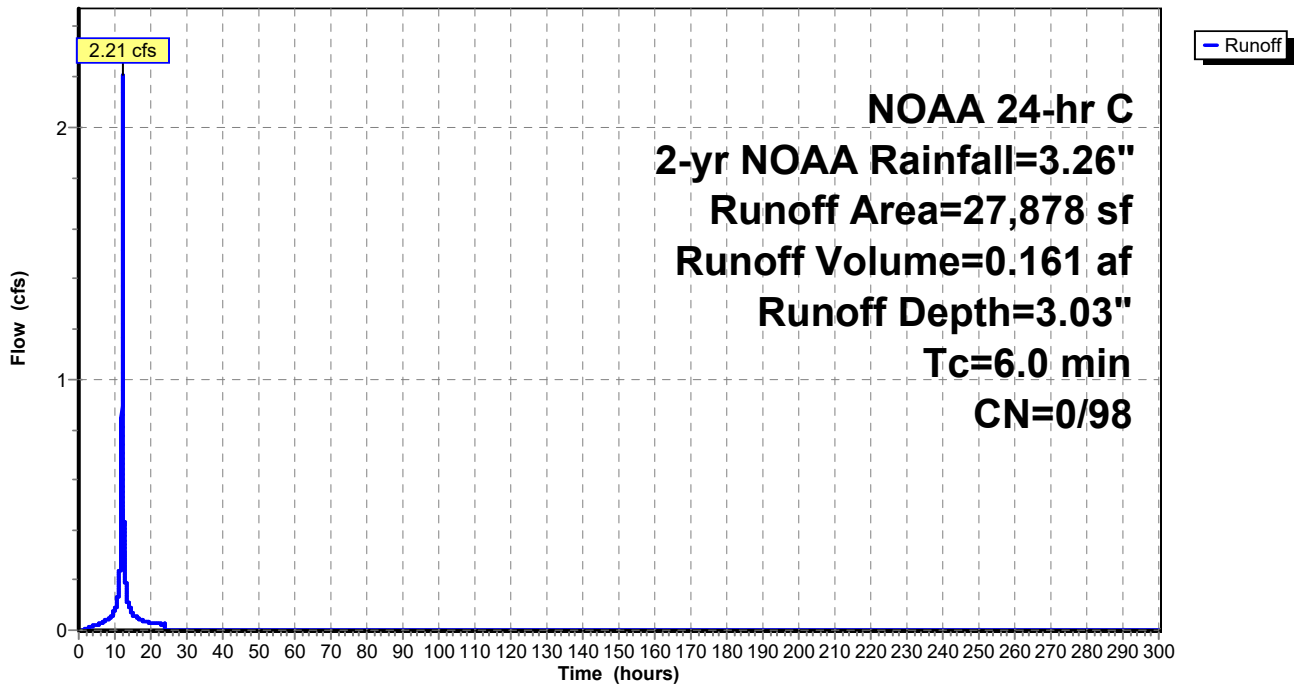
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Area (sf)	CN	Description
27,878	98	Paved roads w/curbs & sewers, HSG B
27,878	98	100.00% Impervious Area

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

Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Hydrograph



MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00	0.00
2.00	0.07	0.00	0.00	0.01
3.00	0.12	0.00	0.02	0.01
4.00	0.16	0.00	0.04	0.02
5.00	0.21	0.00	0.07	0.02
6.00	0.26	0.00	0.11	0.03
7.00	0.32	0.00	0.16	0.03
8.00	0.39	0.00	0.22	0.04
9.00	0.48	0.00	0.30	0.05
10.00	0.59	0.00	0.40	0.08
11.00	0.78	0.00	0.58	0.15
12.00	1.55	0.00	1.33	1.22
13.00	2.48	0.00	2.25	0.20
14.00	2.67	0.00	2.44	0.09
15.00	2.78	0.00	2.55	0.06
16.00	2.87	0.00	2.64	0.05
17.00	2.94	0.00	2.71	0.04
18.00	3.00	0.00	2.77	0.03
19.00	3.05	0.00	2.82	0.03
20.00	3.10	0.00	2.87	0.03
21.00	3.14	0.00	2.91	0.03
22.00	3.19	0.00	2.95	0.03
23.00	3.22	0.00	2.99	0.02
24.00	3.26	0.00	3.03	0.02
25.00	3.26	0.00	3.03	0.00
26.00	3.26	0.00	3.03	0.00
27.00	3.26	0.00	3.03	0.00
28.00	3.26	0.00	3.03	0.00
29.00	3.26	0.00	3.03	0.00
30.00	3.26	0.00	3.03	0.00
31.00	3.26	0.00	3.03	0.00
32.00	3.26	0.00	3.03	0.00
33.00	3.26	0.00	3.03	0.00
34.00	3.26	0.00	3.03	0.00
35.00	3.26	0.00	3.03	0.00
36.00	3.26	0.00	3.03	0.00
37.00	3.26	0.00	3.03	0.00
38.00	3.26	0.00	3.03	0.00
39.00	3.26	0.00	3.03	0.00
40.00	3.26	0.00	3.03	0.00
41.00	3.26	0.00	3.03	0.00
42.00	3.26	0.00	3.03	0.00
43.00	3.26	0.00	3.03	0.00
44.00	3.26	0.00	3.03	0.00
45.00	3.26	0.00	3.03	0.00
46.00	3.26	0.00	3.03	0.00
47.00	3.26	0.00	3.03	0.00
48.00	3.26	0.00	3.03	0.00
49.00	3.26	0.00	3.03	0.00
50.00	3.26	0.00	3.03	0.00
51.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	3.26	0.00	3.03	0.00
53.00	3.26	0.00	3.03	0.00
54.00	3.26	0.00	3.03	0.00
55.00	3.26	0.00	3.03	0.00
56.00	3.26	0.00	3.03	0.00
57.00	3.26	0.00	3.03	0.00
58.00	3.26	0.00	3.03	0.00
59.00	3.26	0.00	3.03	0.00
60.00	3.26	0.00	3.03	0.00
61.00	3.26	0.00	3.03	0.00
62.00	3.26	0.00	3.03	0.00
63.00	3.26	0.00	3.03	0.00
64.00	3.26	0.00	3.03	0.00
65.00	3.26	0.00	3.03	0.00
66.00	3.26	0.00	3.03	0.00
67.00	3.26	0.00	3.03	0.00
68.00	3.26	0.00	3.03	0.00
69.00	3.26	0.00	3.03	0.00
70.00	3.26	0.00	3.03	0.00
71.00	3.26	0.00	3.03	0.00
72.00	3.26	0.00	3.03	0.00
73.00	3.26	0.00	3.03	0.00
74.00	3.26	0.00	3.03	0.00
75.00	3.26	0.00	3.03	0.00
76.00	3.26	0.00	3.03	0.00
77.00	3.26	0.00	3.03	0.00
78.00	3.26	0.00	3.03	0.00
79.00	3.26	0.00	3.03	0.00
80.00	3.26	0.00	3.03	0.00
81.00	3.26	0.00	3.03	0.00
82.00	3.26	0.00	3.03	0.00
83.00	3.26	0.00	3.03	0.00
84.00	3.26	0.00	3.03	0.00
85.00	3.26	0.00	3.03	0.00
86.00	3.26	0.00	3.03	0.00
87.00	3.26	0.00	3.03	0.00
88.00	3.26	0.00	3.03	0.00
89.00	3.26	0.00	3.03	0.00
90.00	3.26	0.00	3.03	0.00
91.00	3.26	0.00	3.03	0.00
92.00	3.26	0.00	3.03	0.00
93.00	3.26	0.00	3.03	0.00
94.00	3.26	0.00	3.03	0.00
95.00	3.26	0.00	3.03	0.00
96.00	3.26	0.00	3.03	0.00
97.00	3.26	0.00	3.03	0.00
98.00	3.26	0.00	3.03	0.00
99.00	3.26	0.00	3.03	0.00
100.00	3.26	0.00	3.03	0.00
101.00	3.26	0.00	3.03	0.00
102.00	3.26	0.00	3.03	0.00
103.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	3.26	0.00	3.03	0.00
105.00	3.26	0.00	3.03	0.00
106.00	3.26	0.00	3.03	0.00
107.00	3.26	0.00	3.03	0.00
108.00	3.26	0.00	3.03	0.00
109.00	3.26	0.00	3.03	0.00
110.00	3.26	0.00	3.03	0.00
111.00	3.26	0.00	3.03	0.00
112.00	3.26	0.00	3.03	0.00
113.00	3.26	0.00	3.03	0.00
114.00	3.26	0.00	3.03	0.00
115.00	3.26	0.00	3.03	0.00
116.00	3.26	0.00	3.03	0.00
117.00	3.26	0.00	3.03	0.00
118.00	3.26	0.00	3.03	0.00
119.00	3.26	0.00	3.03	0.00
120.00	3.26	0.00	3.03	0.00
121.00	3.26	0.00	3.03	0.00
122.00	3.26	0.00	3.03	0.00
123.00	3.26	0.00	3.03	0.00
124.00	3.26	0.00	3.03	0.00
125.00	3.26	0.00	3.03	0.00
126.00	3.26	0.00	3.03	0.00
127.00	3.26	0.00	3.03	0.00
128.00	3.26	0.00	3.03	0.00
129.00	3.26	0.00	3.03	0.00
130.00	3.26	0.00	3.03	0.00
131.00	3.26	0.00	3.03	0.00
132.00	3.26	0.00	3.03	0.00
133.00	3.26	0.00	3.03	0.00
134.00	3.26	0.00	3.03	0.00
135.00	3.26	0.00	3.03	0.00
136.00	3.26	0.00	3.03	0.00
137.00	3.26	0.00	3.03	0.00
138.00	3.26	0.00	3.03	0.00
139.00	3.26	0.00	3.03	0.00
140.00	3.26	0.00	3.03	0.00
141.00	3.26	0.00	3.03	0.00
142.00	3.26	0.00	3.03	0.00
143.00	3.26	0.00	3.03	0.00
144.00	3.26	0.00	3.03	0.00
145.00	3.26	0.00	3.03	0.00
146.00	3.26	0.00	3.03	0.00
147.00	3.26	0.00	3.03	0.00
148.00	3.26	0.00	3.03	0.00
149.00	3.26	0.00	3.03	0.00
150.00	3.26	0.00	3.03	0.00
151.00	3.26	0.00	3.03	0.00
152.00	3.26	0.00	3.03	0.00
153.00	3.26	0.00	3.03	0.00
154.00	3.26	0.00	3.03	0.00
155.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	3.26	0.00	3.03	0.00
157.00	3.26	0.00	3.03	0.00
158.00	3.26	0.00	3.03	0.00
159.00	3.26	0.00	3.03	0.00
160.00	3.26	0.00	3.03	0.00
161.00	3.26	0.00	3.03	0.00
162.00	3.26	0.00	3.03	0.00
163.00	3.26	0.00	3.03	0.00
164.00	3.26	0.00	3.03	0.00
165.00	3.26	0.00	3.03	0.00
166.00	3.26	0.00	3.03	0.00
167.00	3.26	0.00	3.03	0.00
168.00	3.26	0.00	3.03	0.00
169.00	3.26	0.00	3.03	0.00
170.00	3.26	0.00	3.03	0.00
171.00	3.26	0.00	3.03	0.00
172.00	3.26	0.00	3.03	0.00
173.00	3.26	0.00	3.03	0.00
174.00	3.26	0.00	3.03	0.00
175.00	3.26	0.00	3.03	0.00
176.00	3.26	0.00	3.03	0.00
177.00	3.26	0.00	3.03	0.00
178.00	3.26	0.00	3.03	0.00
179.00	3.26	0.00	3.03	0.00
180.00	3.26	0.00	3.03	0.00
181.00	3.26	0.00	3.03	0.00
182.00	3.26	0.00	3.03	0.00
183.00	3.26	0.00	3.03	0.00
184.00	3.26	0.00	3.03	0.00
185.00	3.26	0.00	3.03	0.00
186.00	3.26	0.00	3.03	0.00
187.00	3.26	0.00	3.03	0.00
188.00	3.26	0.00	3.03	0.00
189.00	3.26	0.00	3.03	0.00
190.00	3.26	0.00	3.03	0.00
191.00	3.26	0.00	3.03	0.00
192.00	3.26	0.00	3.03	0.00
193.00	3.26	0.00	3.03	0.00
194.00	3.26	0.00	3.03	0.00
195.00	3.26	0.00	3.03	0.00
196.00	3.26	0.00	3.03	0.00
197.00	3.26	0.00	3.03	0.00
198.00	3.26	0.00	3.03	0.00
199.00	3.26	0.00	3.03	0.00
200.00	3.26	0.00	3.03	0.00
201.00	3.26	0.00	3.03	0.00
202.00	3.26	0.00	3.03	0.00
203.00	3.26	0.00	3.03	0.00
204.00	3.26	0.00	3.03	0.00
205.00	3.26	0.00	3.03	0.00
206.00	3.26	0.00	3.03	0.00
207.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	3.26	0.00	3.03	0.00
209.00	3.26	0.00	3.03	0.00
210.00	3.26	0.00	3.03	0.00
211.00	3.26	0.00	3.03	0.00
212.00	3.26	0.00	3.03	0.00
213.00	3.26	0.00	3.03	0.00
214.00	3.26	0.00	3.03	0.00
215.00	3.26	0.00	3.03	0.00
216.00	3.26	0.00	3.03	0.00
217.00	3.26	0.00	3.03	0.00
218.00	3.26	0.00	3.03	0.00
219.00	3.26	0.00	3.03	0.00
220.00	3.26	0.00	3.03	0.00
221.00	3.26	0.00	3.03	0.00
222.00	3.26	0.00	3.03	0.00
223.00	3.26	0.00	3.03	0.00
224.00	3.26	0.00	3.03	0.00
225.00	3.26	0.00	3.03	0.00
226.00	3.26	0.00	3.03	0.00
227.00	3.26	0.00	3.03	0.00
228.00	3.26	0.00	3.03	0.00
229.00	3.26	0.00	3.03	0.00
230.00	3.26	0.00	3.03	0.00
231.00	3.26	0.00	3.03	0.00
232.00	3.26	0.00	3.03	0.00
233.00	3.26	0.00	3.03	0.00
234.00	3.26	0.00	3.03	0.00
235.00	3.26	0.00	3.03	0.00
236.00	3.26	0.00	3.03	0.00
237.00	3.26	0.00	3.03	0.00
238.00	3.26	0.00	3.03	0.00
239.00	3.26	0.00	3.03	0.00
240.00	3.26	0.00	3.03	0.00
241.00	3.26	0.00	3.03	0.00
242.00	3.26	0.00	3.03	0.00
243.00	3.26	0.00	3.03	0.00
244.00	3.26	0.00	3.03	0.00
245.00	3.26	0.00	3.03	0.00
246.00	3.26	0.00	3.03	0.00
247.00	3.26	0.00	3.03	0.00
248.00	3.26	0.00	3.03	0.00
249.00	3.26	0.00	3.03	0.00
250.00	3.26	0.00	3.03	0.00
251.00	3.26	0.00	3.03	0.00
252.00	3.26	0.00	3.03	0.00
253.00	3.26	0.00	3.03	0.00
254.00	3.26	0.00	3.03	0.00
255.00	3.26	0.00	3.03	0.00
256.00	3.26	0.00	3.03	0.00
257.00	3.26	0.00	3.03	0.00
258.00	3.26	0.00	3.03	0.00
259.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 1S: 0.8 ac - 80% imp (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	3.26	0.00	3.03	0.00
261.00	3.26	0.00	3.03	0.00
262.00	3.26	0.00	3.03	0.00
263.00	3.26	0.00	3.03	0.00
264.00	3.26	0.00	3.03	0.00
265.00	3.26	0.00	3.03	0.00
266.00	3.26	0.00	3.03	0.00
267.00	3.26	0.00	3.03	0.00
268.00	3.26	0.00	3.03	0.00
269.00	3.26	0.00	3.03	0.00
270.00	3.26	0.00	3.03	0.00
271.00	3.26	0.00	3.03	0.00
272.00	3.26	0.00	3.03	0.00
273.00	3.26	0.00	3.03	0.00
274.00	3.26	0.00	3.03	0.00
275.00	3.26	0.00	3.03	0.00
276.00	3.26	0.00	3.03	0.00
277.00	3.26	0.00	3.03	0.00
278.00	3.26	0.00	3.03	0.00
279.00	3.26	0.00	3.03	0.00
280.00	3.26	0.00	3.03	0.00
281.00	3.26	0.00	3.03	0.00
282.00	3.26	0.00	3.03	0.00
283.00	3.26	0.00	3.03	0.00
284.00	3.26	0.00	3.03	0.00
285.00	3.26	0.00	3.03	0.00
286.00	3.26	0.00	3.03	0.00
287.00	3.26	0.00	3.03	0.00
288.00	3.26	0.00	3.03	0.00
289.00	3.26	0.00	3.03	0.00
290.00	3.26	0.00	3.03	0.00
291.00	3.26	0.00	3.03	0.00
292.00	3.26	0.00	3.03	0.00
293.00	3.26	0.00	3.03	0.00
294.00	3.26	0.00	3.03	0.00
295.00	3.26	0.00	3.03	0.00
296.00	3.26	0.00	3.03	0.00
297.00	3.26	0.00	3.03	0.00
298.00	3.26	0.00	3.03	0.00
299.00	3.26	0.00	3.03	0.00
300.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Runoff = 0.29 cfs @ 12.13 hrs, Volume= 0.018 af, Depth= 1.38"

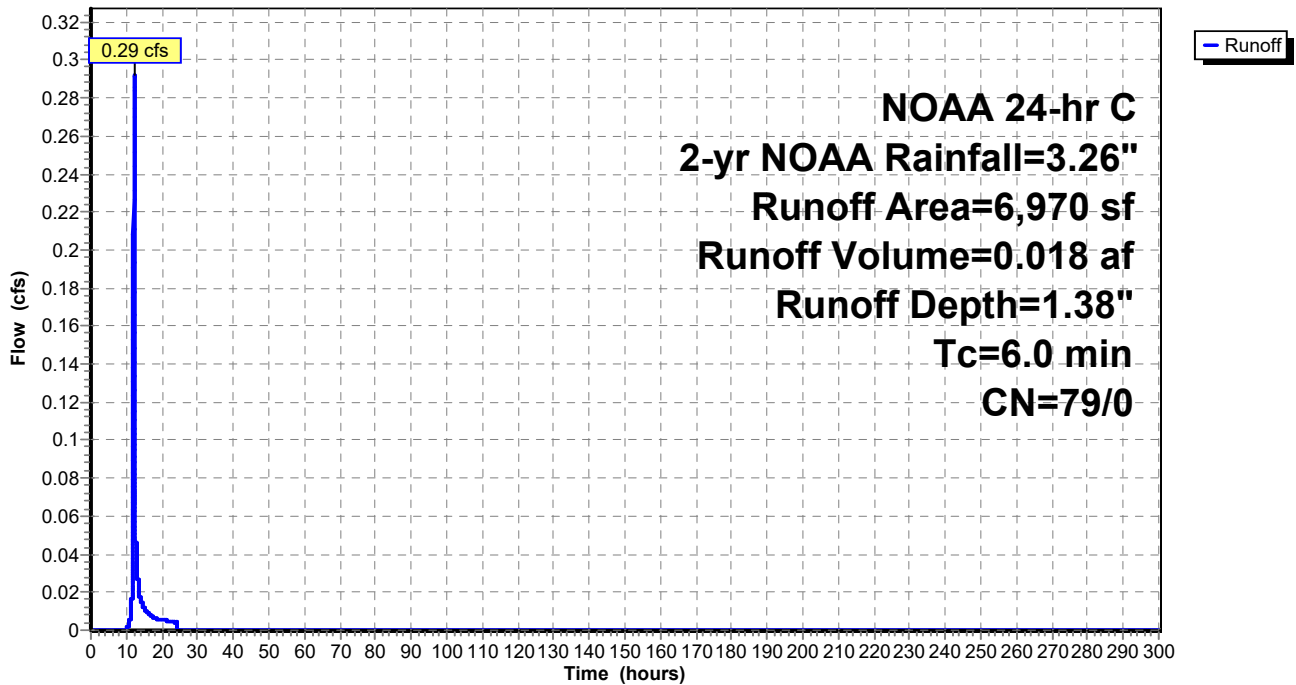
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
 NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Area (sf)	CN	Description
6,970	79	50-75% Grass cover, Fair, HSG C
6,970	79	100.00% Pervious Area

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

Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Hydrograph



MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00	0.00
2.00	0.07	0.00	0.00	0.00
3.00	0.12	0.00	0.00	0.00
4.00	0.16	0.00	0.00	0.00
5.00	0.21	0.00	0.00	0.00
6.00	0.26	0.00	0.00	0.00
7.00	0.32	0.00	0.00	0.00
8.00	0.39	0.00	0.00	0.00
9.00	0.48	0.00	0.00	0.00
10.00	0.59	0.00	0.00	0.00
11.00	0.78	0.02	0.00	0.01
12.00	1.55	0.28	0.00	0.13
13.00	2.48	0.82	0.00	0.03
14.00	2.67	0.95	0.00	0.02
15.00	2.78	1.03	0.00	0.01
16.00	2.87	1.09	0.00	0.01
17.00	2.94	1.15	0.00	0.01
18.00	3.00	1.19	0.00	0.01
19.00	3.05	1.23	0.00	0.01
20.00	3.10	1.26	0.00	0.01
21.00	3.14	1.30	0.00	0.01
22.00	3.19	1.33	0.00	0.00
23.00	3.22	1.36	0.00	0.00
24.00	3.26	1.38	0.00	0.00
25.00	3.26	1.38	0.00	0.00
26.00	3.26	1.38	0.00	0.00
27.00	3.26	1.38	0.00	0.00
28.00	3.26	1.38	0.00	0.00
29.00	3.26	1.38	0.00	0.00
30.00	3.26	1.38	0.00	0.00
31.00	3.26	1.38	0.00	0.00
32.00	3.26	1.38	0.00	0.00
33.00	3.26	1.38	0.00	0.00
34.00	3.26	1.38	0.00	0.00
35.00	3.26	1.38	0.00	0.00
36.00	3.26	1.38	0.00	0.00
37.00	3.26	1.38	0.00	0.00
38.00	3.26	1.38	0.00	0.00
39.00	3.26	1.38	0.00	0.00
40.00	3.26	1.38	0.00	0.00
41.00	3.26	1.38	0.00	0.00
42.00	3.26	1.38	0.00	0.00
43.00	3.26	1.38	0.00	0.00
44.00	3.26	1.38	0.00	0.00
45.00	3.26	1.38	0.00	0.00
46.00	3.26	1.38	0.00	0.00
47.00	3.26	1.38	0.00	0.00
48.00	3.26	1.38	0.00	0.00
49.00	3.26	1.38	0.00	0.00
50.00	3.26	1.38	0.00	0.00
51.00	3.26	1.38	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	3.26	1.38	0.00	0.00
53.00	3.26	1.38	0.00	0.00
54.00	3.26	1.38	0.00	0.00
55.00	3.26	1.38	0.00	0.00
56.00	3.26	1.38	0.00	0.00
57.00	3.26	1.38	0.00	0.00
58.00	3.26	1.38	0.00	0.00
59.00	3.26	1.38	0.00	0.00
60.00	3.26	1.38	0.00	0.00
61.00	3.26	1.38	0.00	0.00
62.00	3.26	1.38	0.00	0.00
63.00	3.26	1.38	0.00	0.00
64.00	3.26	1.38	0.00	0.00
65.00	3.26	1.38	0.00	0.00
66.00	3.26	1.38	0.00	0.00
67.00	3.26	1.38	0.00	0.00
68.00	3.26	1.38	0.00	0.00
69.00	3.26	1.38	0.00	0.00
70.00	3.26	1.38	0.00	0.00
71.00	3.26	1.38	0.00	0.00
72.00	3.26	1.38	0.00	0.00
73.00	3.26	1.38	0.00	0.00
74.00	3.26	1.38	0.00	0.00
75.00	3.26	1.38	0.00	0.00
76.00	3.26	1.38	0.00	0.00
77.00	3.26	1.38	0.00	0.00
78.00	3.26	1.38	0.00	0.00
79.00	3.26	1.38	0.00	0.00
80.00	3.26	1.38	0.00	0.00
81.00	3.26	1.38	0.00	0.00
82.00	3.26	1.38	0.00	0.00
83.00	3.26	1.38	0.00	0.00
84.00	3.26	1.38	0.00	0.00
85.00	3.26	1.38	0.00	0.00
86.00	3.26	1.38	0.00	0.00
87.00	3.26	1.38	0.00	0.00
88.00	3.26	1.38	0.00	0.00
89.00	3.26	1.38	0.00	0.00
90.00	3.26	1.38	0.00	0.00
91.00	3.26	1.38	0.00	0.00
92.00	3.26	1.38	0.00	0.00
93.00	3.26	1.38	0.00	0.00
94.00	3.26	1.38	0.00	0.00
95.00	3.26	1.38	0.00	0.00
96.00	3.26	1.38	0.00	0.00
97.00	3.26	1.38	0.00	0.00
98.00	3.26	1.38	0.00	0.00
99.00	3.26	1.38	0.00	0.00
100.00	3.26	1.38	0.00	0.00
101.00	3.26	1.38	0.00	0.00
102.00	3.26	1.38	0.00	0.00
103.00	3.26	1.38	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	3.26	1.38	0.00	0.00
105.00	3.26	1.38	0.00	0.00
106.00	3.26	1.38	0.00	0.00
107.00	3.26	1.38	0.00	0.00
108.00	3.26	1.38	0.00	0.00
109.00	3.26	1.38	0.00	0.00
110.00	3.26	1.38	0.00	0.00
111.00	3.26	1.38	0.00	0.00
112.00	3.26	1.38	0.00	0.00
113.00	3.26	1.38	0.00	0.00
114.00	3.26	1.38	0.00	0.00
115.00	3.26	1.38	0.00	0.00
116.00	3.26	1.38	0.00	0.00
117.00	3.26	1.38	0.00	0.00
118.00	3.26	1.38	0.00	0.00
119.00	3.26	1.38	0.00	0.00
120.00	3.26	1.38	0.00	0.00
121.00	3.26	1.38	0.00	0.00
122.00	3.26	1.38	0.00	0.00
123.00	3.26	1.38	0.00	0.00
124.00	3.26	1.38	0.00	0.00
125.00	3.26	1.38	0.00	0.00
126.00	3.26	1.38	0.00	0.00
127.00	3.26	1.38	0.00	0.00
128.00	3.26	1.38	0.00	0.00
129.00	3.26	1.38	0.00	0.00
130.00	3.26	1.38	0.00	0.00
131.00	3.26	1.38	0.00	0.00
132.00	3.26	1.38	0.00	0.00
133.00	3.26	1.38	0.00	0.00
134.00	3.26	1.38	0.00	0.00
135.00	3.26	1.38	0.00	0.00
136.00	3.26	1.38	0.00	0.00
137.00	3.26	1.38	0.00	0.00
138.00	3.26	1.38	0.00	0.00
139.00	3.26	1.38	0.00	0.00
140.00	3.26	1.38	0.00	0.00
141.00	3.26	1.38	0.00	0.00
142.00	3.26	1.38	0.00	0.00
143.00	3.26	1.38	0.00	0.00
144.00	3.26	1.38	0.00	0.00
145.00	3.26	1.38	0.00	0.00
146.00	3.26	1.38	0.00	0.00
147.00	3.26	1.38	0.00	0.00
148.00	3.26	1.38	0.00	0.00
149.00	3.26	1.38	0.00	0.00
150.00	3.26	1.38	0.00	0.00
151.00	3.26	1.38	0.00	0.00
152.00	3.26	1.38	0.00	0.00
153.00	3.26	1.38	0.00	0.00
154.00	3.26	1.38	0.00	0.00
155.00	3.26	1.38	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	3.26	1.38	0.00	0.00
157.00	3.26	1.38	0.00	0.00
158.00	3.26	1.38	0.00	0.00
159.00	3.26	1.38	0.00	0.00
160.00	3.26	1.38	0.00	0.00
161.00	3.26	1.38	0.00	0.00
162.00	3.26	1.38	0.00	0.00
163.00	3.26	1.38	0.00	0.00
164.00	3.26	1.38	0.00	0.00
165.00	3.26	1.38	0.00	0.00
166.00	3.26	1.38	0.00	0.00
167.00	3.26	1.38	0.00	0.00
168.00	3.26	1.38	0.00	0.00
169.00	3.26	1.38	0.00	0.00
170.00	3.26	1.38	0.00	0.00
171.00	3.26	1.38	0.00	0.00
172.00	3.26	1.38	0.00	0.00
173.00	3.26	1.38	0.00	0.00
174.00	3.26	1.38	0.00	0.00
175.00	3.26	1.38	0.00	0.00
176.00	3.26	1.38	0.00	0.00
177.00	3.26	1.38	0.00	0.00
178.00	3.26	1.38	0.00	0.00
179.00	3.26	1.38	0.00	0.00
180.00	3.26	1.38	0.00	0.00
181.00	3.26	1.38	0.00	0.00
182.00	3.26	1.38	0.00	0.00
183.00	3.26	1.38	0.00	0.00
184.00	3.26	1.38	0.00	0.00
185.00	3.26	1.38	0.00	0.00
186.00	3.26	1.38	0.00	0.00
187.00	3.26	1.38	0.00	0.00
188.00	3.26	1.38	0.00	0.00
189.00	3.26	1.38	0.00	0.00
190.00	3.26	1.38	0.00	0.00
191.00	3.26	1.38	0.00	0.00
192.00	3.26	1.38	0.00	0.00
193.00	3.26	1.38	0.00	0.00
194.00	3.26	1.38	0.00	0.00
195.00	3.26	1.38	0.00	0.00
196.00	3.26	1.38	0.00	0.00
197.00	3.26	1.38	0.00	0.00
198.00	3.26	1.38	0.00	0.00
199.00	3.26	1.38	0.00	0.00
200.00	3.26	1.38	0.00	0.00
201.00	3.26	1.38	0.00	0.00
202.00	3.26	1.38	0.00	0.00
203.00	3.26	1.38	0.00	0.00
204.00	3.26	1.38	0.00	0.00
205.00	3.26	1.38	0.00	0.00
206.00	3.26	1.38	0.00	0.00
207.00	3.26	1.38	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	3.26	1.38	0.00	0.00
209.00	3.26	1.38	0.00	0.00
210.00	3.26	1.38	0.00	0.00
211.00	3.26	1.38	0.00	0.00
212.00	3.26	1.38	0.00	0.00
213.00	3.26	1.38	0.00	0.00
214.00	3.26	1.38	0.00	0.00
215.00	3.26	1.38	0.00	0.00
216.00	3.26	1.38	0.00	0.00
217.00	3.26	1.38	0.00	0.00
218.00	3.26	1.38	0.00	0.00
219.00	3.26	1.38	0.00	0.00
220.00	3.26	1.38	0.00	0.00
221.00	3.26	1.38	0.00	0.00
222.00	3.26	1.38	0.00	0.00
223.00	3.26	1.38	0.00	0.00
224.00	3.26	1.38	0.00	0.00
225.00	3.26	1.38	0.00	0.00
226.00	3.26	1.38	0.00	0.00
227.00	3.26	1.38	0.00	0.00
228.00	3.26	1.38	0.00	0.00
229.00	3.26	1.38	0.00	0.00
230.00	3.26	1.38	0.00	0.00
231.00	3.26	1.38	0.00	0.00
232.00	3.26	1.38	0.00	0.00
233.00	3.26	1.38	0.00	0.00
234.00	3.26	1.38	0.00	0.00
235.00	3.26	1.38	0.00	0.00
236.00	3.26	1.38	0.00	0.00
237.00	3.26	1.38	0.00	0.00
238.00	3.26	1.38	0.00	0.00
239.00	3.26	1.38	0.00	0.00
240.00	3.26	1.38	0.00	0.00
241.00	3.26	1.38	0.00	0.00
242.00	3.26	1.38	0.00	0.00
243.00	3.26	1.38	0.00	0.00
244.00	3.26	1.38	0.00	0.00
245.00	3.26	1.38	0.00	0.00
246.00	3.26	1.38	0.00	0.00
247.00	3.26	1.38	0.00	0.00
248.00	3.26	1.38	0.00	0.00
249.00	3.26	1.38	0.00	0.00
250.00	3.26	1.38	0.00	0.00
251.00	3.26	1.38	0.00	0.00
252.00	3.26	1.38	0.00	0.00
253.00	3.26	1.38	0.00	0.00
254.00	3.26	1.38	0.00	0.00
255.00	3.26	1.38	0.00	0.00
256.00	3.26	1.38	0.00	0.00
257.00	3.26	1.38	0.00	0.00
258.00	3.26	1.38	0.00	0.00
259.00	3.26	1.38	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 2S: 0.8 ac - 20% Impevious (Postconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	3.26	1.38	0.00	0.00
261.00	3.26	1.38	0.00	0.00
262.00	3.26	1.38	0.00	0.00
263.00	3.26	1.38	0.00	0.00
264.00	3.26	1.38	0.00	0.00
265.00	3.26	1.38	0.00	0.00
266.00	3.26	1.38	0.00	0.00
267.00	3.26	1.38	0.00	0.00
268.00	3.26	1.38	0.00	0.00
269.00	3.26	1.38	0.00	0.00
270.00	3.26	1.38	0.00	0.00
271.00	3.26	1.38	0.00	0.00
272.00	3.26	1.38	0.00	0.00
273.00	3.26	1.38	0.00	0.00
274.00	3.26	1.38	0.00	0.00
275.00	3.26	1.38	0.00	0.00
276.00	3.26	1.38	0.00	0.00
277.00	3.26	1.38	0.00	0.00
278.00	3.26	1.38	0.00	0.00
279.00	3.26	1.38	0.00	0.00
280.00	3.26	1.38	0.00	0.00
281.00	3.26	1.38	0.00	0.00
282.00	3.26	1.38	0.00	0.00
283.00	3.26	1.38	0.00	0.00
284.00	3.26	1.38	0.00	0.00
285.00	3.26	1.38	0.00	0.00
286.00	3.26	1.38	0.00	0.00
287.00	3.26	1.38	0.00	0.00
288.00	3.26	1.38	0.00	0.00
289.00	3.26	1.38	0.00	0.00
290.00	3.26	1.38	0.00	0.00
291.00	3.26	1.38	0.00	0.00
292.00	3.26	1.38	0.00	0.00
293.00	3.26	1.38	0.00	0.00
294.00	3.26	1.38	0.00	0.00
295.00	3.26	1.38	0.00	0.00
296.00	3.26	1.38	0.00	0.00
297.00	3.26	1.38	0.00	0.00
298.00	3.26	1.38	0.00	0.00
299.00	3.26	1.38	0.00	0.00
300.00	3.26	1.38	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Runoff = 0.80 cfs @ 12.25 hrs, Volume= 0.072 af, Depth= 1.08"

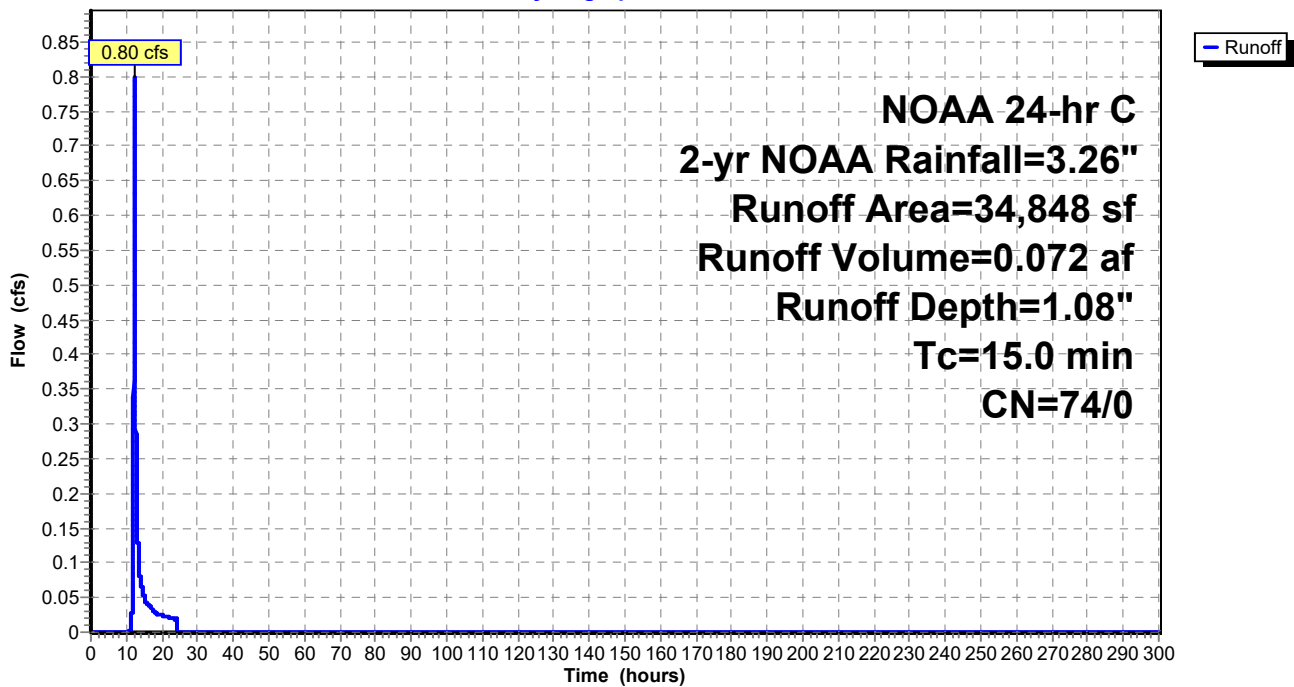
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

	Area (sf)	CN	Description
*	34,848	74	Meadow, non-grazed, HSG C
	34,848	74	100.00% Pervious Area

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

Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Hydrograph



MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00	0.00
2.00	0.07	0.00	0.00	0.00
3.00	0.12	0.00	0.00	0.00
4.00	0.16	0.00	0.00	0.00
5.00	0.21	0.00	0.00	0.00
6.00	0.26	0.00	0.00	0.00
7.00	0.32	0.00	0.00	0.00
8.00	0.39	0.00	0.00	0.00
9.00	0.48	0.00	0.00	0.00
10.00	0.59	0.00	0.00	0.00
11.00	0.78	0.00	0.00	0.00
12.00	1.55	0.17	0.00	0.21
13.00	2.48	0.60	0.00	0.16
14.00	2.67	0.70	0.00	0.07
15.00	2.78	0.77	0.00	0.05
16.00	2.87	0.83	0.00	0.04
17.00	2.94	0.87	0.00	0.03
18.00	3.00	0.91	0.00	0.03
19.00	3.05	0.94	0.00	0.03
20.00	3.10	0.97	0.00	0.02
21.00	3.14	1.00	0.00	0.02
22.00	3.19	1.03	0.00	0.02
23.00	3.22	1.05	0.00	0.02
24.00	3.26	1.08	0.00	0.02
25.00	3.26	1.08	0.00	0.00
26.00	3.26	1.08	0.00	0.00
27.00	3.26	1.08	0.00	0.00
28.00	3.26	1.08	0.00	0.00
29.00	3.26	1.08	0.00	0.00
30.00	3.26	1.08	0.00	0.00
31.00	3.26	1.08	0.00	0.00
32.00	3.26	1.08	0.00	0.00
33.00	3.26	1.08	0.00	0.00
34.00	3.26	1.08	0.00	0.00
35.00	3.26	1.08	0.00	0.00
36.00	3.26	1.08	0.00	0.00
37.00	3.26	1.08	0.00	0.00
38.00	3.26	1.08	0.00	0.00
39.00	3.26	1.08	0.00	0.00
40.00	3.26	1.08	0.00	0.00
41.00	3.26	1.08	0.00	0.00
42.00	3.26	1.08	0.00	0.00
43.00	3.26	1.08	0.00	0.00
44.00	3.26	1.08	0.00	0.00
45.00	3.26	1.08	0.00	0.00
46.00	3.26	1.08	0.00	0.00
47.00	3.26	1.08	0.00	0.00
48.00	3.26	1.08	0.00	0.00
49.00	3.26	1.08	0.00	0.00
50.00	3.26	1.08	0.00	0.00
51.00	3.26	1.08	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	3.26	1.08	0.00	0.00
53.00	3.26	1.08	0.00	0.00
54.00	3.26	1.08	0.00	0.00
55.00	3.26	1.08	0.00	0.00
56.00	3.26	1.08	0.00	0.00
57.00	3.26	1.08	0.00	0.00
58.00	3.26	1.08	0.00	0.00
59.00	3.26	1.08	0.00	0.00
60.00	3.26	1.08	0.00	0.00
61.00	3.26	1.08	0.00	0.00
62.00	3.26	1.08	0.00	0.00
63.00	3.26	1.08	0.00	0.00
64.00	3.26	1.08	0.00	0.00
65.00	3.26	1.08	0.00	0.00
66.00	3.26	1.08	0.00	0.00
67.00	3.26	1.08	0.00	0.00
68.00	3.26	1.08	0.00	0.00
69.00	3.26	1.08	0.00	0.00
70.00	3.26	1.08	0.00	0.00
71.00	3.26	1.08	0.00	0.00
72.00	3.26	1.08	0.00	0.00
73.00	3.26	1.08	0.00	0.00
74.00	3.26	1.08	0.00	0.00
75.00	3.26	1.08	0.00	0.00
76.00	3.26	1.08	0.00	0.00
77.00	3.26	1.08	0.00	0.00
78.00	3.26	1.08	0.00	0.00
79.00	3.26	1.08	0.00	0.00
80.00	3.26	1.08	0.00	0.00
81.00	3.26	1.08	0.00	0.00
82.00	3.26	1.08	0.00	0.00
83.00	3.26	1.08	0.00	0.00
84.00	3.26	1.08	0.00	0.00
85.00	3.26	1.08	0.00	0.00
86.00	3.26	1.08	0.00	0.00
87.00	3.26	1.08	0.00	0.00
88.00	3.26	1.08	0.00	0.00
89.00	3.26	1.08	0.00	0.00
90.00	3.26	1.08	0.00	0.00
91.00	3.26	1.08	0.00	0.00
92.00	3.26	1.08	0.00	0.00
93.00	3.26	1.08	0.00	0.00
94.00	3.26	1.08	0.00	0.00
95.00	3.26	1.08	0.00	0.00
96.00	3.26	1.08	0.00	0.00
97.00	3.26	1.08	0.00	0.00
98.00	3.26	1.08	0.00	0.00
99.00	3.26	1.08	0.00	0.00
100.00	3.26	1.08	0.00	0.00
101.00	3.26	1.08	0.00	0.00
102.00	3.26	1.08	0.00	0.00
103.00	3.26	1.08	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	3.26	1.08	0.00	0.00
105.00	3.26	1.08	0.00	0.00
106.00	3.26	1.08	0.00	0.00
107.00	3.26	1.08	0.00	0.00
108.00	3.26	1.08	0.00	0.00
109.00	3.26	1.08	0.00	0.00
110.00	3.26	1.08	0.00	0.00
111.00	3.26	1.08	0.00	0.00
112.00	3.26	1.08	0.00	0.00
113.00	3.26	1.08	0.00	0.00
114.00	3.26	1.08	0.00	0.00
115.00	3.26	1.08	0.00	0.00
116.00	3.26	1.08	0.00	0.00
117.00	3.26	1.08	0.00	0.00
118.00	3.26	1.08	0.00	0.00
119.00	3.26	1.08	0.00	0.00
120.00	3.26	1.08	0.00	0.00
121.00	3.26	1.08	0.00	0.00
122.00	3.26	1.08	0.00	0.00
123.00	3.26	1.08	0.00	0.00
124.00	3.26	1.08	0.00	0.00
125.00	3.26	1.08	0.00	0.00
126.00	3.26	1.08	0.00	0.00
127.00	3.26	1.08	0.00	0.00
128.00	3.26	1.08	0.00	0.00
129.00	3.26	1.08	0.00	0.00
130.00	3.26	1.08	0.00	0.00
131.00	3.26	1.08	0.00	0.00
132.00	3.26	1.08	0.00	0.00
133.00	3.26	1.08	0.00	0.00
134.00	3.26	1.08	0.00	0.00
135.00	3.26	1.08	0.00	0.00
136.00	3.26	1.08	0.00	0.00
137.00	3.26	1.08	0.00	0.00
138.00	3.26	1.08	0.00	0.00
139.00	3.26	1.08	0.00	0.00
140.00	3.26	1.08	0.00	0.00
141.00	3.26	1.08	0.00	0.00
142.00	3.26	1.08	0.00	0.00
143.00	3.26	1.08	0.00	0.00
144.00	3.26	1.08	0.00	0.00
145.00	3.26	1.08	0.00	0.00
146.00	3.26	1.08	0.00	0.00
147.00	3.26	1.08	0.00	0.00
148.00	3.26	1.08	0.00	0.00
149.00	3.26	1.08	0.00	0.00
150.00	3.26	1.08	0.00	0.00
151.00	3.26	1.08	0.00	0.00
152.00	3.26	1.08	0.00	0.00
153.00	3.26	1.08	0.00	0.00
154.00	3.26	1.08	0.00	0.00
155.00	3.26	1.08	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	3.26	1.08	0.00	0.00
157.00	3.26	1.08	0.00	0.00
158.00	3.26	1.08	0.00	0.00
159.00	3.26	1.08	0.00	0.00
160.00	3.26	1.08	0.00	0.00
161.00	3.26	1.08	0.00	0.00
162.00	3.26	1.08	0.00	0.00
163.00	3.26	1.08	0.00	0.00
164.00	3.26	1.08	0.00	0.00
165.00	3.26	1.08	0.00	0.00
166.00	3.26	1.08	0.00	0.00
167.00	3.26	1.08	0.00	0.00
168.00	3.26	1.08	0.00	0.00
169.00	3.26	1.08	0.00	0.00
170.00	3.26	1.08	0.00	0.00
171.00	3.26	1.08	0.00	0.00
172.00	3.26	1.08	0.00	0.00
173.00	3.26	1.08	0.00	0.00
174.00	3.26	1.08	0.00	0.00
175.00	3.26	1.08	0.00	0.00
176.00	3.26	1.08	0.00	0.00
177.00	3.26	1.08	0.00	0.00
178.00	3.26	1.08	0.00	0.00
179.00	3.26	1.08	0.00	0.00
180.00	3.26	1.08	0.00	0.00
181.00	3.26	1.08	0.00	0.00
182.00	3.26	1.08	0.00	0.00
183.00	3.26	1.08	0.00	0.00
184.00	3.26	1.08	0.00	0.00
185.00	3.26	1.08	0.00	0.00
186.00	3.26	1.08	0.00	0.00
187.00	3.26	1.08	0.00	0.00
188.00	3.26	1.08	0.00	0.00
189.00	3.26	1.08	0.00	0.00
190.00	3.26	1.08	0.00	0.00
191.00	3.26	1.08	0.00	0.00
192.00	3.26	1.08	0.00	0.00
193.00	3.26	1.08	0.00	0.00
194.00	3.26	1.08	0.00	0.00
195.00	3.26	1.08	0.00	0.00
196.00	3.26	1.08	0.00	0.00
197.00	3.26	1.08	0.00	0.00
198.00	3.26	1.08	0.00	0.00
199.00	3.26	1.08	0.00	0.00
200.00	3.26	1.08	0.00	0.00
201.00	3.26	1.08	0.00	0.00
202.00	3.26	1.08	0.00	0.00
203.00	3.26	1.08	0.00	0.00
204.00	3.26	1.08	0.00	0.00
205.00	3.26	1.08	0.00	0.00
206.00	3.26	1.08	0.00	0.00
207.00	3.26	1.08	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	3.26	1.08	0.00	0.00
209.00	3.26	1.08	0.00	0.00
210.00	3.26	1.08	0.00	0.00
211.00	3.26	1.08	0.00	0.00
212.00	3.26	1.08	0.00	0.00
213.00	3.26	1.08	0.00	0.00
214.00	3.26	1.08	0.00	0.00
215.00	3.26	1.08	0.00	0.00
216.00	3.26	1.08	0.00	0.00
217.00	3.26	1.08	0.00	0.00
218.00	3.26	1.08	0.00	0.00
219.00	3.26	1.08	0.00	0.00
220.00	3.26	1.08	0.00	0.00
221.00	3.26	1.08	0.00	0.00
222.00	3.26	1.08	0.00	0.00
223.00	3.26	1.08	0.00	0.00
224.00	3.26	1.08	0.00	0.00
225.00	3.26	1.08	0.00	0.00
226.00	3.26	1.08	0.00	0.00
227.00	3.26	1.08	0.00	0.00
228.00	3.26	1.08	0.00	0.00
229.00	3.26	1.08	0.00	0.00
230.00	3.26	1.08	0.00	0.00
231.00	3.26	1.08	0.00	0.00
232.00	3.26	1.08	0.00	0.00
233.00	3.26	1.08	0.00	0.00
234.00	3.26	1.08	0.00	0.00
235.00	3.26	1.08	0.00	0.00
236.00	3.26	1.08	0.00	0.00
237.00	3.26	1.08	0.00	0.00
238.00	3.26	1.08	0.00	0.00
239.00	3.26	1.08	0.00	0.00
240.00	3.26	1.08	0.00	0.00
241.00	3.26	1.08	0.00	0.00
242.00	3.26	1.08	0.00	0.00
243.00	3.26	1.08	0.00	0.00
244.00	3.26	1.08	0.00	0.00
245.00	3.26	1.08	0.00	0.00
246.00	3.26	1.08	0.00	0.00
247.00	3.26	1.08	0.00	0.00
248.00	3.26	1.08	0.00	0.00
249.00	3.26	1.08	0.00	0.00
250.00	3.26	1.08	0.00	0.00
251.00	3.26	1.08	0.00	0.00
252.00	3.26	1.08	0.00	0.00
253.00	3.26	1.08	0.00	0.00
254.00	3.26	1.08	0.00	0.00
255.00	3.26	1.08	0.00	0.00
256.00	3.26	1.08	0.00	0.00
257.00	3.26	1.08	0.00	0.00
258.00	3.26	1.08	0.00	0.00
259.00	3.26	1.08	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 3S: 0.8 ac Pervious (Preconstruction) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	3.26	1.08	0.00	0.00
261.00	3.26	1.08	0.00	0.00
262.00	3.26	1.08	0.00	0.00
263.00	3.26	1.08	0.00	0.00
264.00	3.26	1.08	0.00	0.00
265.00	3.26	1.08	0.00	0.00
266.00	3.26	1.08	0.00	0.00
267.00	3.26	1.08	0.00	0.00
268.00	3.26	1.08	0.00	0.00
269.00	3.26	1.08	0.00	0.00
270.00	3.26	1.08	0.00	0.00
271.00	3.26	1.08	0.00	0.00
272.00	3.26	1.08	0.00	0.00
273.00	3.26	1.08	0.00	0.00
274.00	3.26	1.08	0.00	0.00
275.00	3.26	1.08	0.00	0.00
276.00	3.26	1.08	0.00	0.00
277.00	3.26	1.08	0.00	0.00
278.00	3.26	1.08	0.00	0.00
279.00	3.26	1.08	0.00	0.00
280.00	3.26	1.08	0.00	0.00
281.00	3.26	1.08	0.00	0.00
282.00	3.26	1.08	0.00	0.00
283.00	3.26	1.08	0.00	0.00
284.00	3.26	1.08	0.00	0.00
285.00	3.26	1.08	0.00	0.00
286.00	3.26	1.08	0.00	0.00
287.00	3.26	1.08	0.00	0.00
288.00	3.26	1.08	0.00	0.00
289.00	3.26	1.08	0.00	0.00
290.00	3.26	1.08	0.00	0.00
291.00	3.26	1.08	0.00	0.00
292.00	3.26	1.08	0.00	0.00
293.00	3.26	1.08	0.00	0.00
294.00	3.26	1.08	0.00	0.00
295.00	3.26	1.08	0.00	0.00
296.00	3.26	1.08	0.00	0.00
297.00	3.26	1.08	0.00	0.00
298.00	3.26	1.08	0.00	0.00
299.00	3.26	1.08	0.00	0.00
300.00	3.26	1.08	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Runoff = 2.21 cfs @ 12.13 hrs, Volume= 0.161 af, Depth= 3.03"

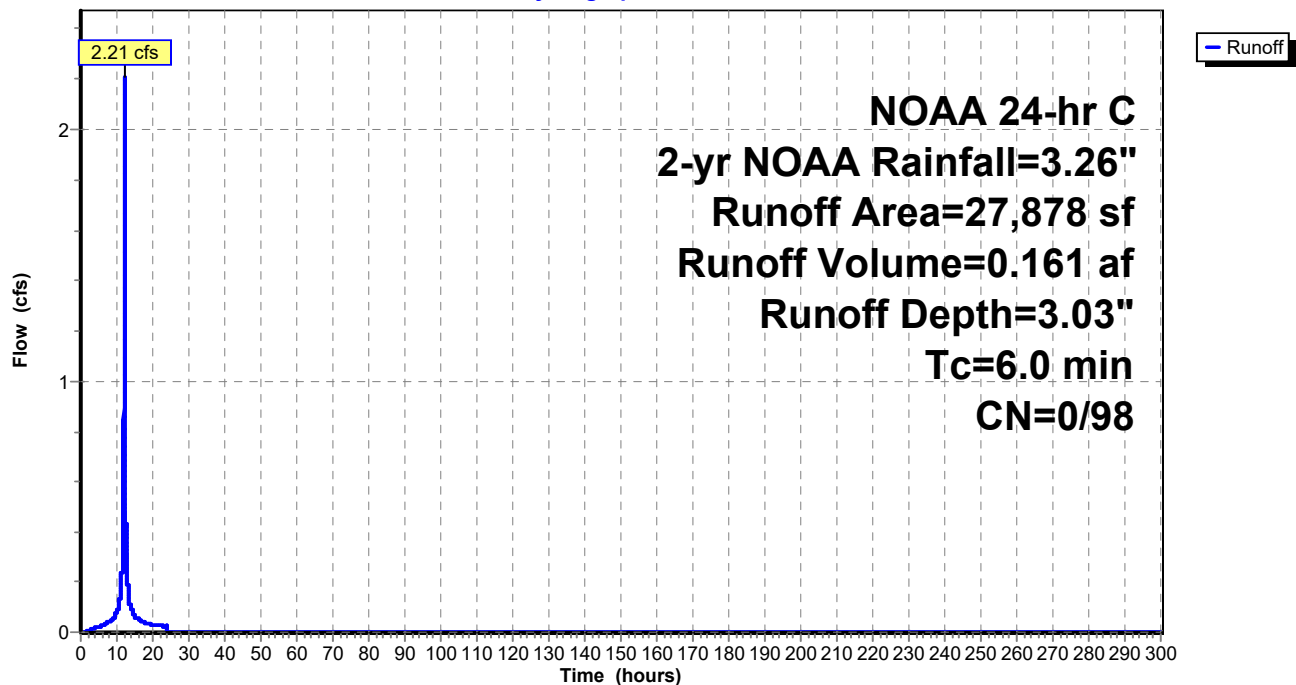
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Area (sf)	CN	Description
27,878	98	Paved roads w/curbs & sewers, HSG B
27,878	98	100.00% Impervious Area

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

Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Hydrograph



MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00	0.00
2.00	0.07	0.00	0.00	0.01
3.00	0.12	0.00	0.02	0.01
4.00	0.16	0.00	0.04	0.02
5.00	0.21	0.00	0.07	0.02
6.00	0.26	0.00	0.11	0.03
7.00	0.32	0.00	0.16	0.03
8.00	0.39	0.00	0.22	0.04
9.00	0.48	0.00	0.30	0.05
10.00	0.59	0.00	0.40	0.08
11.00	0.78	0.00	0.58	0.15
12.00	1.55	0.00	1.33	1.22
13.00	2.48	0.00	2.25	0.20
14.00	2.67	0.00	2.44	0.09
15.00	2.78	0.00	2.55	0.06
16.00	2.87	0.00	2.64	0.05
17.00	2.94	0.00	2.71	0.04
18.00	3.00	0.00	2.77	0.03
19.00	3.05	0.00	2.82	0.03
20.00	3.10	0.00	2.87	0.03
21.00	3.14	0.00	2.91	0.03
22.00	3.19	0.00	2.95	0.03
23.00	3.22	0.00	2.99	0.02
24.00	3.26	0.00	3.03	0.02
25.00	3.26	0.00	3.03	0.00
26.00	3.26	0.00	3.03	0.00
27.00	3.26	0.00	3.03	0.00
28.00	3.26	0.00	3.03	0.00
29.00	3.26	0.00	3.03	0.00
30.00	3.26	0.00	3.03	0.00
31.00	3.26	0.00	3.03	0.00
32.00	3.26	0.00	3.03	0.00
33.00	3.26	0.00	3.03	0.00
34.00	3.26	0.00	3.03	0.00
35.00	3.26	0.00	3.03	0.00
36.00	3.26	0.00	3.03	0.00
37.00	3.26	0.00	3.03	0.00
38.00	3.26	0.00	3.03	0.00
39.00	3.26	0.00	3.03	0.00
40.00	3.26	0.00	3.03	0.00
41.00	3.26	0.00	3.03	0.00
42.00	3.26	0.00	3.03	0.00
43.00	3.26	0.00	3.03	0.00
44.00	3.26	0.00	3.03	0.00
45.00	3.26	0.00	3.03	0.00
46.00	3.26	0.00	3.03	0.00
47.00	3.26	0.00	3.03	0.00
48.00	3.26	0.00	3.03	0.00
49.00	3.26	0.00	3.03	0.00
50.00	3.26	0.00	3.03	0.00
51.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	3.26	0.00	3.03	0.00
53.00	3.26	0.00	3.03	0.00
54.00	3.26	0.00	3.03	0.00
55.00	3.26	0.00	3.03	0.00
56.00	3.26	0.00	3.03	0.00
57.00	3.26	0.00	3.03	0.00
58.00	3.26	0.00	3.03	0.00
59.00	3.26	0.00	3.03	0.00
60.00	3.26	0.00	3.03	0.00
61.00	3.26	0.00	3.03	0.00
62.00	3.26	0.00	3.03	0.00
63.00	3.26	0.00	3.03	0.00
64.00	3.26	0.00	3.03	0.00
65.00	3.26	0.00	3.03	0.00
66.00	3.26	0.00	3.03	0.00
67.00	3.26	0.00	3.03	0.00
68.00	3.26	0.00	3.03	0.00
69.00	3.26	0.00	3.03	0.00
70.00	3.26	0.00	3.03	0.00
71.00	3.26	0.00	3.03	0.00
72.00	3.26	0.00	3.03	0.00
73.00	3.26	0.00	3.03	0.00
74.00	3.26	0.00	3.03	0.00
75.00	3.26	0.00	3.03	0.00
76.00	3.26	0.00	3.03	0.00
77.00	3.26	0.00	3.03	0.00
78.00	3.26	0.00	3.03	0.00
79.00	3.26	0.00	3.03	0.00
80.00	3.26	0.00	3.03	0.00
81.00	3.26	0.00	3.03	0.00
82.00	3.26	0.00	3.03	0.00
83.00	3.26	0.00	3.03	0.00
84.00	3.26	0.00	3.03	0.00
85.00	3.26	0.00	3.03	0.00
86.00	3.26	0.00	3.03	0.00
87.00	3.26	0.00	3.03	0.00
88.00	3.26	0.00	3.03	0.00
89.00	3.26	0.00	3.03	0.00
90.00	3.26	0.00	3.03	0.00
91.00	3.26	0.00	3.03	0.00
92.00	3.26	0.00	3.03	0.00
93.00	3.26	0.00	3.03	0.00
94.00	3.26	0.00	3.03	0.00
95.00	3.26	0.00	3.03	0.00
96.00	3.26	0.00	3.03	0.00
97.00	3.26	0.00	3.03	0.00
98.00	3.26	0.00	3.03	0.00
99.00	3.26	0.00	3.03	0.00
100.00	3.26	0.00	3.03	0.00
101.00	3.26	0.00	3.03	0.00
102.00	3.26	0.00	3.03	0.00
103.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
104.00	3.26	0.00	3.03	0.00
105.00	3.26	0.00	3.03	0.00
106.00	3.26	0.00	3.03	0.00
107.00	3.26	0.00	3.03	0.00
108.00	3.26	0.00	3.03	0.00
109.00	3.26	0.00	3.03	0.00
110.00	3.26	0.00	3.03	0.00
111.00	3.26	0.00	3.03	0.00
112.00	3.26	0.00	3.03	0.00
113.00	3.26	0.00	3.03	0.00
114.00	3.26	0.00	3.03	0.00
115.00	3.26	0.00	3.03	0.00
116.00	3.26	0.00	3.03	0.00
117.00	3.26	0.00	3.03	0.00
118.00	3.26	0.00	3.03	0.00
119.00	3.26	0.00	3.03	0.00
120.00	3.26	0.00	3.03	0.00
121.00	3.26	0.00	3.03	0.00
122.00	3.26	0.00	3.03	0.00
123.00	3.26	0.00	3.03	0.00
124.00	3.26	0.00	3.03	0.00
125.00	3.26	0.00	3.03	0.00
126.00	3.26	0.00	3.03	0.00
127.00	3.26	0.00	3.03	0.00
128.00	3.26	0.00	3.03	0.00
129.00	3.26	0.00	3.03	0.00
130.00	3.26	0.00	3.03	0.00
131.00	3.26	0.00	3.03	0.00
132.00	3.26	0.00	3.03	0.00
133.00	3.26	0.00	3.03	0.00
134.00	3.26	0.00	3.03	0.00
135.00	3.26	0.00	3.03	0.00
136.00	3.26	0.00	3.03	0.00
137.00	3.26	0.00	3.03	0.00
138.00	3.26	0.00	3.03	0.00
139.00	3.26	0.00	3.03	0.00
140.00	3.26	0.00	3.03	0.00
141.00	3.26	0.00	3.03	0.00
142.00	3.26	0.00	3.03	0.00
143.00	3.26	0.00	3.03	0.00
144.00	3.26	0.00	3.03	0.00
145.00	3.26	0.00	3.03	0.00
146.00	3.26	0.00	3.03	0.00
147.00	3.26	0.00	3.03	0.00
148.00	3.26	0.00	3.03	0.00
149.00	3.26	0.00	3.03	0.00
150.00	3.26	0.00	3.03	0.00
151.00	3.26	0.00	3.03	0.00
152.00	3.26	0.00	3.03	0.00
153.00	3.26	0.00	3.03	0.00
154.00	3.26	0.00	3.03	0.00
155.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
156.00	3.26	0.00	3.03	0.00
157.00	3.26	0.00	3.03	0.00
158.00	3.26	0.00	3.03	0.00
159.00	3.26	0.00	3.03	0.00
160.00	3.26	0.00	3.03	0.00
161.00	3.26	0.00	3.03	0.00
162.00	3.26	0.00	3.03	0.00
163.00	3.26	0.00	3.03	0.00
164.00	3.26	0.00	3.03	0.00
165.00	3.26	0.00	3.03	0.00
166.00	3.26	0.00	3.03	0.00
167.00	3.26	0.00	3.03	0.00
168.00	3.26	0.00	3.03	0.00
169.00	3.26	0.00	3.03	0.00
170.00	3.26	0.00	3.03	0.00
171.00	3.26	0.00	3.03	0.00
172.00	3.26	0.00	3.03	0.00
173.00	3.26	0.00	3.03	0.00
174.00	3.26	0.00	3.03	0.00
175.00	3.26	0.00	3.03	0.00
176.00	3.26	0.00	3.03	0.00
177.00	3.26	0.00	3.03	0.00
178.00	3.26	0.00	3.03	0.00
179.00	3.26	0.00	3.03	0.00
180.00	3.26	0.00	3.03	0.00
181.00	3.26	0.00	3.03	0.00
182.00	3.26	0.00	3.03	0.00
183.00	3.26	0.00	3.03	0.00
184.00	3.26	0.00	3.03	0.00
185.00	3.26	0.00	3.03	0.00
186.00	3.26	0.00	3.03	0.00
187.00	3.26	0.00	3.03	0.00
188.00	3.26	0.00	3.03	0.00
189.00	3.26	0.00	3.03	0.00
190.00	3.26	0.00	3.03	0.00
191.00	3.26	0.00	3.03	0.00
192.00	3.26	0.00	3.03	0.00
193.00	3.26	0.00	3.03	0.00
194.00	3.26	0.00	3.03	0.00
195.00	3.26	0.00	3.03	0.00
196.00	3.26	0.00	3.03	0.00
197.00	3.26	0.00	3.03	0.00
198.00	3.26	0.00	3.03	0.00
199.00	3.26	0.00	3.03	0.00
200.00	3.26	0.00	3.03	0.00
201.00	3.26	0.00	3.03	0.00
202.00	3.26	0.00	3.03	0.00
203.00	3.26	0.00	3.03	0.00
204.00	3.26	0.00	3.03	0.00
205.00	3.26	0.00	3.03	0.00
206.00	3.26	0.00	3.03	0.00
207.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
208.00	3.26	0.00	3.03	0.00
209.00	3.26	0.00	3.03	0.00
210.00	3.26	0.00	3.03	0.00
211.00	3.26	0.00	3.03	0.00
212.00	3.26	0.00	3.03	0.00
213.00	3.26	0.00	3.03	0.00
214.00	3.26	0.00	3.03	0.00
215.00	3.26	0.00	3.03	0.00
216.00	3.26	0.00	3.03	0.00
217.00	3.26	0.00	3.03	0.00
218.00	3.26	0.00	3.03	0.00
219.00	3.26	0.00	3.03	0.00
220.00	3.26	0.00	3.03	0.00
221.00	3.26	0.00	3.03	0.00
222.00	3.26	0.00	3.03	0.00
223.00	3.26	0.00	3.03	0.00
224.00	3.26	0.00	3.03	0.00
225.00	3.26	0.00	3.03	0.00
226.00	3.26	0.00	3.03	0.00
227.00	3.26	0.00	3.03	0.00
228.00	3.26	0.00	3.03	0.00
229.00	3.26	0.00	3.03	0.00
230.00	3.26	0.00	3.03	0.00
231.00	3.26	0.00	3.03	0.00
232.00	3.26	0.00	3.03	0.00
233.00	3.26	0.00	3.03	0.00
234.00	3.26	0.00	3.03	0.00
235.00	3.26	0.00	3.03	0.00
236.00	3.26	0.00	3.03	0.00
237.00	3.26	0.00	3.03	0.00
238.00	3.26	0.00	3.03	0.00
239.00	3.26	0.00	3.03	0.00
240.00	3.26	0.00	3.03	0.00
241.00	3.26	0.00	3.03	0.00
242.00	3.26	0.00	3.03	0.00
243.00	3.26	0.00	3.03	0.00
244.00	3.26	0.00	3.03	0.00
245.00	3.26	0.00	3.03	0.00
246.00	3.26	0.00	3.03	0.00
247.00	3.26	0.00	3.03	0.00
248.00	3.26	0.00	3.03	0.00
249.00	3.26	0.00	3.03	0.00
250.00	3.26	0.00	3.03	0.00
251.00	3.26	0.00	3.03	0.00
252.00	3.26	0.00	3.03	0.00
253.00	3.26	0.00	3.03	0.00
254.00	3.26	0.00	3.03	0.00
255.00	3.26	0.00	3.03	0.00
256.00	3.26	0.00	3.03	0.00
257.00	3.26	0.00	3.03	0.00
258.00	3.26	0.00	3.03	0.00
259.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Subcatchment 4S: 0.8 ac - 80% imp 20% per (Postconstruction w/o BMPs) (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
260.00	3.26	0.00	3.03	0.00
261.00	3.26	0.00	3.03	0.00
262.00	3.26	0.00	3.03	0.00
263.00	3.26	0.00	3.03	0.00
264.00	3.26	0.00	3.03	0.00
265.00	3.26	0.00	3.03	0.00
266.00	3.26	0.00	3.03	0.00
267.00	3.26	0.00	3.03	0.00
268.00	3.26	0.00	3.03	0.00
269.00	3.26	0.00	3.03	0.00
270.00	3.26	0.00	3.03	0.00
271.00	3.26	0.00	3.03	0.00
272.00	3.26	0.00	3.03	0.00
273.00	3.26	0.00	3.03	0.00
274.00	3.26	0.00	3.03	0.00
275.00	3.26	0.00	3.03	0.00
276.00	3.26	0.00	3.03	0.00
277.00	3.26	0.00	3.03	0.00
278.00	3.26	0.00	3.03	0.00
279.00	3.26	0.00	3.03	0.00
280.00	3.26	0.00	3.03	0.00
281.00	3.26	0.00	3.03	0.00
282.00	3.26	0.00	3.03	0.00
283.00	3.26	0.00	3.03	0.00
284.00	3.26	0.00	3.03	0.00
285.00	3.26	0.00	3.03	0.00
286.00	3.26	0.00	3.03	0.00
287.00	3.26	0.00	3.03	0.00
288.00	3.26	0.00	3.03	0.00
289.00	3.26	0.00	3.03	0.00
290.00	3.26	0.00	3.03	0.00
291.00	3.26	0.00	3.03	0.00
292.00	3.26	0.00	3.03	0.00
293.00	3.26	0.00	3.03	0.00
294.00	3.26	0.00	3.03	0.00
295.00	3.26	0.00	3.03	0.00
296.00	3.26	0.00	3.03	0.00
297.00	3.26	0.00	3.03	0.00
298.00	3.26	0.00	3.03	0.00
299.00	3.26	0.00	3.03	0.00
300.00	3.26	0.00	3.03	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Summary for Pond 1P: Managed Release Pemeable Pavement

50% IWS routing modeled with a $0.30 \times 50\% = 0.15$ void space

Inflow Area =	0.800 ac, 80.00% Impervious, Inflow Depth = 2.70"	for 2-yr NOAA event
Inflow =	2.50 cfs @ 12.13 hrs, Volume=	0.180 af
Outflow =	0.48 cfs @ 12.54 hrs, Volume=	0.177 af, Atten= 81%, Lag= 24.9 min
Discarded =	0.00 cfs @ 12.54 hrs, Volume=	0.021 af
Primary =	0.01 cfs @ 12.54 hrs, Volume=	0.044 af
Secondary =	0.25 cfs @ 12.54 hrs, Volume=	0.011 af
Tertiary =	0.21 cfs @ 12.54 hrs, Volume=	0.102 af

Routing by Stor-Ind method, Time Span= 0.00-300.00 hrs, dt= 0.01 hrs
Peak Elev= -0.31' @ 12.54 hrs Surf.Area= 3,049 sf Storage= 4,501 cf

Plug-Flow detention time= 1,553.5 min calculated for 0.177 af (98% of inflow)
Center-of-Mass det. time= 1,543.7 min (2,310.2 - 766.5)

Volume	Invert	Avail.Storage	Storage Description
#1	-4.50'	4,884 cf	Storage bed (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
-4.50	3,049	0.0	0	0
-3.51	3,049	20.0	604	604
-2.00	3,049	40.0	1,842	2,445
0.00	3,049	40.0	2,439	4,884

Device	Routing	Invert	Outlet Devices
#1	Primary	-3.50'	0.5" Vert. Orifice/Grate C= 0.600
#2	Secondary	-0.50'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#3	Discarded	-4.50'	0.010 in/hr Infiltration (minimal) over Horizontal area Conductivity to Groundwater Elevation = -10.00'
#4	Tertiary	-2.10'	2.5" Vert. Orifice/Grate C= 0.600

Discarded OutFlow Max=0.00 cfs @ 12.54 hrs HW=-0.31' (Free Discharge)
↑**3=Infiltration (minimal)** (Controls 0.00 cfs)

Primary OutFlow Max=0.01 cfs @ 12.54 hrs HW=-0.31' (Free Discharge)
↑**1=Orifice/Grate** (Orifice Controls 0.01 cfs @ 8.57 fps)

Secondary OutFlow Max=0.25 cfs @ 12.54 hrs HW=-0.31' (Free Discharge)
↑**2=Sharp-Crested Rectangular Weir**(Weir Controls 0.25 cfs @ 1.41 fps)

Tertiary OutFlow Max=0.21 cfs @ 12.54 hrs HW=-0.31' (Free Discharge)
↑**4=Orifice/Grate** (Orifice Controls 0.21 cfs @ 6.24 fps)

MRC Example 3

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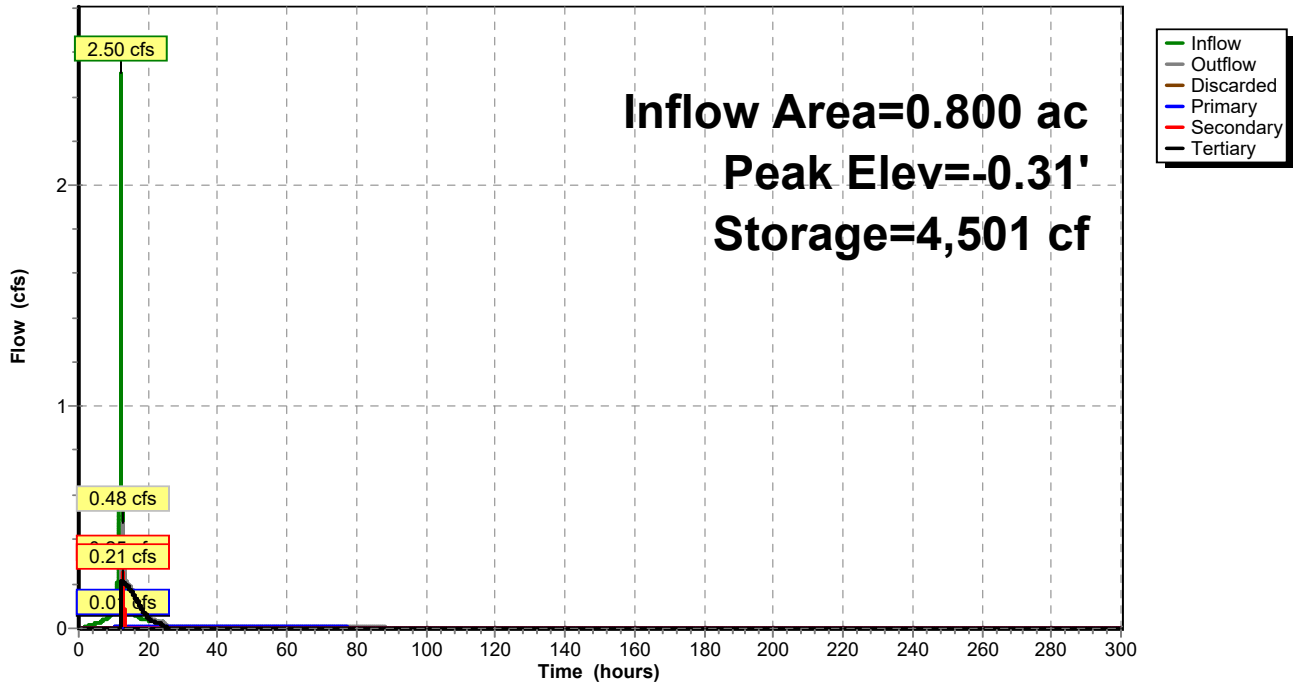
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NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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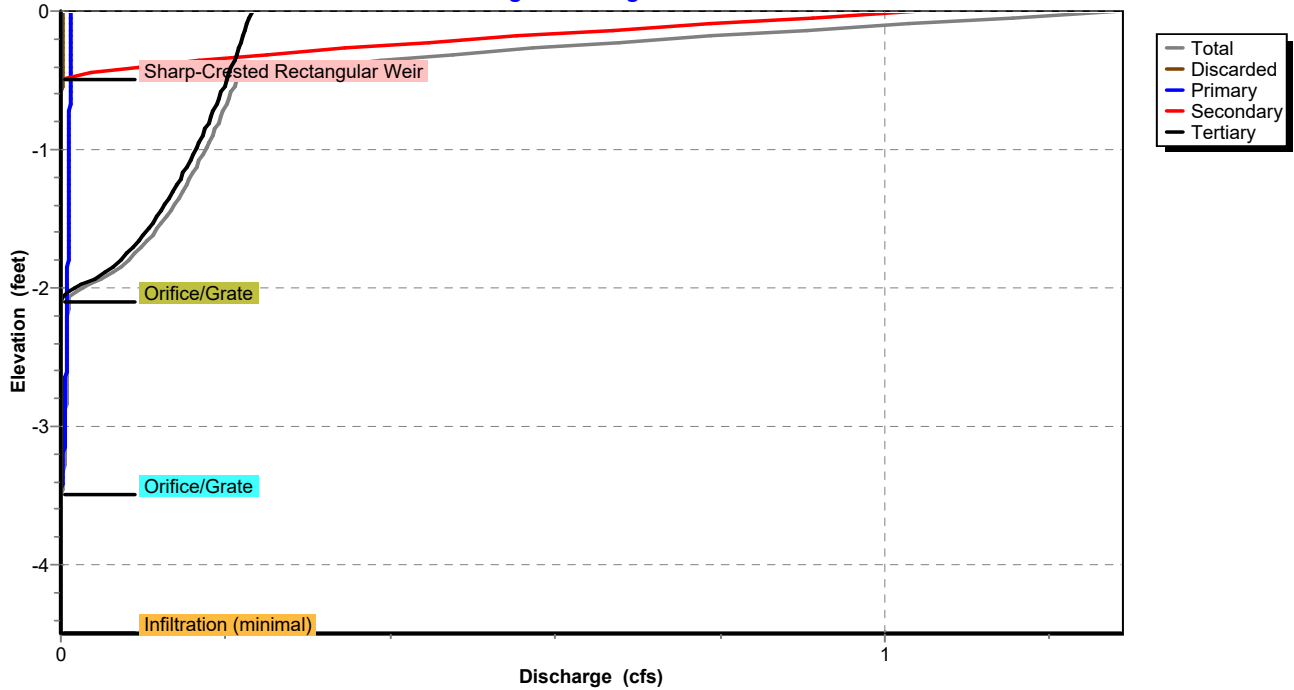
Pond 1P: Managed Release Pemeable Pavement

Hydrograph



Pond 1P: Managed Release Pemeable Pavement

Stage-Discharge



MRC Example 3

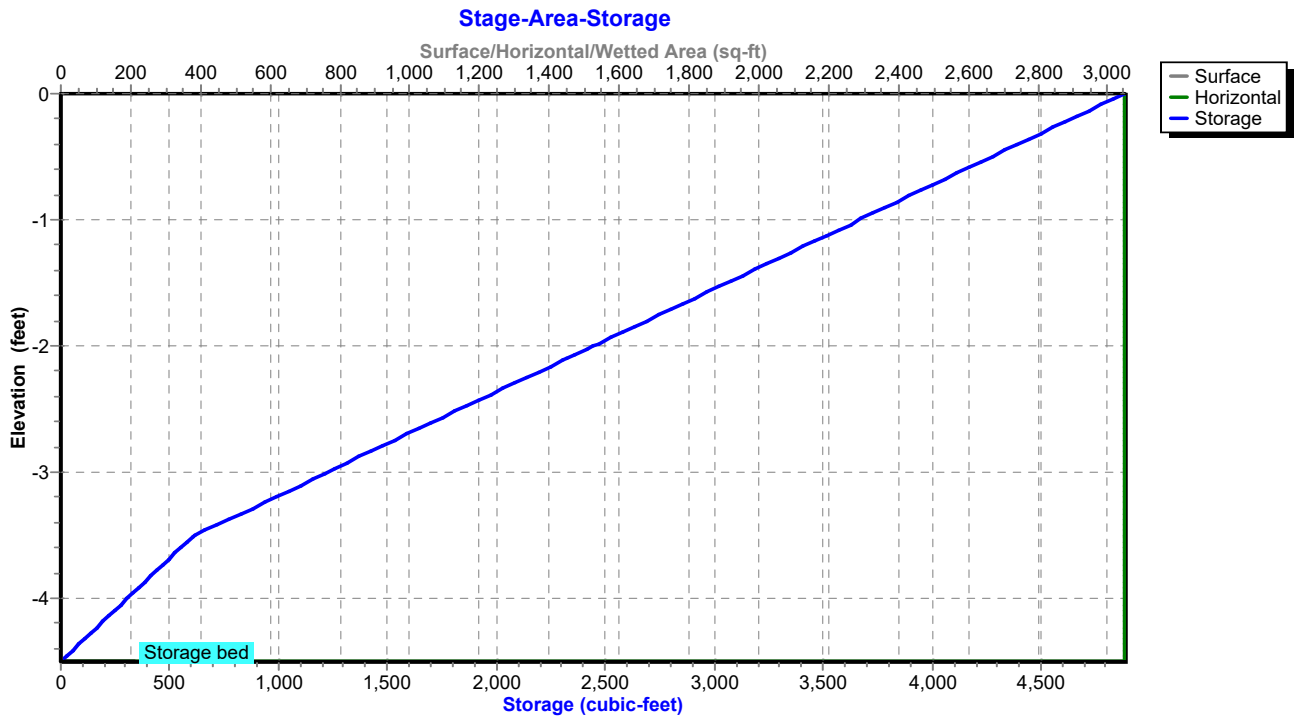
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NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Pond 1P: Managed Release Pemeable Pavement



MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
0.00	0.00	0	-4.50	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0	-4.50	0.00	0.00	0.00	0.00	0.00
2.00	0.01	8	-4.49	0.00	0.00	0.00	0.00	0.00
3.00	0.01	40	-4.43	0.00	0.00	0.00	0.00	0.00
4.00	0.02	91	-4.35	0.00	0.00	0.00	0.00	0.00
5.00	0.02	159	-4.24	0.00	0.00	0.00	0.00	0.00
6.00	0.03	242	-4.10	0.00	0.00	0.00	0.00	0.00
7.00	0.03	347	-3.93	0.00	0.00	0.00	0.00	0.00
8.00	0.04	483	-3.71	0.00	0.00	0.00	0.00	0.00
9.00	0.05	652	-3.47	0.00	0.00	0.00	0.00	0.00
10.00	0.08	884	-3.28	0.00	0.00	0.00	0.00	0.00
11.00	0.16	1,263	-2.97	0.01	0.00	0.00	0.00	0.00
12.00	1.35	2,678	-1.81	0.08	0.00	0.01	0.00	0.07
13.00	0.23	4,375	-0.42	0.30	0.00	0.01	0.08	0.21
14.00	0.11	4,107	-0.64	0.20	0.00	0.01	0.00	0.19
15.00	0.07	3,747	-0.93	0.18	0.00	0.01	0.00	0.17
16.00	0.06	3,381	-1.23	0.15	0.00	0.01	0.00	0.14
17.00	0.05	3,075	-1.48	0.13	0.00	0.01	0.00	0.12
18.00	0.04	2,829	-1.69	0.10	0.00	0.01	0.00	0.09
19.00	0.04	2,652	-1.83	0.08	0.00	0.01	0.00	0.07
20.00	0.04	2,549	-1.92	0.06	0.00	0.01	0.00	0.05
21.00	0.03	2,499	-1.96	0.04	0.00	0.01	0.00	0.03
22.00	0.03	2,477	-1.97	0.04	0.00	0.01	0.00	0.03
23.00	0.03	2,463	-1.99	0.03	0.00	0.01	0.00	0.02
24.00	0.03	2,453	-1.99	0.03	0.00	0.01	0.00	0.02
25.00	0.00	2,387	-2.05	0.01	0.00	0.01	0.00	0.01
26.00	0.00	2,345	-2.08	0.01	0.00	0.01	0.00	0.00
27.00	0.00	2,313	-2.11	0.01	0.00	0.01	0.00	0.00
28.00	0.00	2,282	-2.13	0.01	0.00	0.01	0.00	0.00
29.00	0.00	2,251	-2.16	0.01	0.00	0.01	0.00	0.00
30.00	0.00	2,220	-2.18	0.01	0.00	0.01	0.00	0.00
31.00	0.00	2,190	-2.21	0.01	0.00	0.01	0.00	0.00
32.00	0.00	2,160	-2.23	0.01	0.00	0.01	0.00	0.00
33.00	0.00	2,130	-2.26	0.01	0.00	0.01	0.00	0.00
34.00	0.00	2,100	-2.28	0.01	0.00	0.01	0.00	0.00
35.00	0.00	2,071	-2.31	0.01	0.00	0.01	0.00	0.00
36.00	0.00	2,042	-2.33	0.01	0.00	0.01	0.00	0.00
37.00	0.00	2,013	-2.35	0.01	0.00	0.01	0.00	0.00
38.00	0.00	1,985	-2.38	0.01	0.00	0.01	0.00	0.00
39.00	0.00	1,956	-2.40	0.01	0.00	0.01	0.00	0.00
40.00	0.00	1,929	-2.42	0.01	0.00	0.01	0.00	0.00
41.00	0.00	1,901	-2.45	0.01	0.00	0.01	0.00	0.00
42.00	0.00	1,874	-2.47	0.01	0.00	0.01	0.00	0.00
43.00	0.00	1,846	-2.49	0.01	0.00	0.01	0.00	0.00
44.00	0.00	1,820	-2.51	0.01	0.00	0.01	0.00	0.00
45.00	0.00	1,793	-2.53	0.01	0.00	0.01	0.00	0.00
46.00	0.00	1,767	-2.56	0.01	0.00	0.01	0.00	0.00
47.00	0.00	1,741	-2.58	0.01	0.00	0.01	0.00	0.00
48.00	0.00	1,715	-2.60	0.01	0.00	0.01	0.00	0.00
49.00	0.00	1,690	-2.62	0.01	0.00	0.01	0.00	0.00
50.00	0.00	1,664	-2.64	0.01	0.00	0.01	0.00	0.00
51.00	0.00	1,640	-2.66	0.01	0.00	0.01	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
52.00	0.00	1,615	-2.68	0.01	0.00	0.01	0.00	0.00
53.00	0.00	1,591	-2.70	0.01	0.00	0.01	0.00	0.00
54.00	0.00	1,566	-2.72	0.01	0.00	0.01	0.00	0.00
55.00	0.00	1,543	-2.74	0.01	0.00	0.01	0.00	0.00
56.00	0.00	1,519	-2.76	0.01	0.00	0.01	0.00	0.00
57.00	0.00	1,496	-2.78	0.01	0.00	0.01	0.00	0.00
58.00	0.00	1,473	-2.80	0.01	0.00	0.01	0.00	0.00
59.00	0.00	1,450	-2.82	0.01	0.00	0.01	0.00	0.00
60.00	0.00	1,428	-2.83	0.01	0.00	0.01	0.00	0.00
61.00	0.00	1,406	-2.85	0.01	0.00	0.01	0.00	0.00
62.00	0.00	1,384	-2.87	0.01	0.00	0.01	0.00	0.00
63.00	0.00	1,362	-2.89	0.01	0.00	0.01	0.00	0.00
64.00	0.00	1,341	-2.91	0.01	0.00	0.00	0.00	0.00
65.00	0.00	1,320	-2.92	0.01	0.00	0.00	0.00	0.00
66.00	0.00	1,299	-2.94	0.01	0.00	0.00	0.00	0.00
67.00	0.00	1,279	-2.96	0.01	0.00	0.00	0.00	0.00
68.00	0.00	1,258	-2.97	0.01	0.00	0.00	0.00	0.00
69.00	0.00	1,238	-2.99	0.01	0.00	0.00	0.00	0.00
70.00	0.00	1,219	-3.01	0.01	0.00	0.00	0.00	0.00
71.00	0.00	1,199	-3.02	0.01	0.00	0.00	0.00	0.00
72.00	0.00	1,180	-3.04	0.01	0.00	0.00	0.00	0.00
73.00	0.00	1,162	-3.05	0.01	0.00	0.00	0.00	0.00
74.00	0.00	1,143	-3.07	0.01	0.00	0.00	0.00	0.00
75.00	0.00	1,125	-3.08	0.01	0.00	0.00	0.00	0.00
76.00	0.00	1,107	-3.10	0.00	0.00	0.00	0.00	0.00
77.00	0.00	1,089	-3.11	0.00	0.00	0.00	0.00	0.00
78.00	0.00	1,072	-3.13	0.00	0.00	0.00	0.00	0.00
79.00	0.00	1,055	-3.14	0.00	0.00	0.00	0.00	0.00
80.00	0.00	1,038	-3.15	0.00	0.00	0.00	0.00	0.00
81.00	0.00	1,022	-3.17	0.00	0.00	0.00	0.00	0.00
82.00	0.00	1,005	-3.18	0.00	0.00	0.00	0.00	0.00
83.00	0.00	989	-3.19	0.00	0.00	0.00	0.00	0.00
84.00	0.00	974	-3.21	0.00	0.00	0.00	0.00	0.00
85.00	0.00	959	-3.22	0.00	0.00	0.00	0.00	0.00
86.00	0.00	943	-3.23	0.00	0.00	0.00	0.00	0.00
87.00	0.00	929	-3.24	0.00	0.00	0.00	0.00	0.00
88.00	0.00	914	-3.26	0.00	0.00	0.00	0.00	0.00
89.00	0.00	900	-3.27	0.00	0.00	0.00	0.00	0.00
90.00	0.00	886	-3.28	0.00	0.00	0.00	0.00	0.00
91.00	0.00	873	-3.29	0.00	0.00	0.00	0.00	0.00
92.00	0.00	860	-3.30	0.00	0.00	0.00	0.00	0.00
93.00	0.00	847	-3.31	0.00	0.00	0.00	0.00	0.00
94.00	0.00	834	-3.32	0.00	0.00	0.00	0.00	0.00
95.00	0.00	822	-3.33	0.00	0.00	0.00	0.00	0.00
96.00	0.00	810	-3.34	0.00	0.00	0.00	0.00	0.00
97.00	0.00	798	-3.35	0.00	0.00	0.00	0.00	0.00
98.00	0.00	787	-3.36	0.00	0.00	0.00	0.00	0.00
99.00	0.00	776	-3.37	0.00	0.00	0.00	0.00	0.00
100.00	0.00	765	-3.38	0.00	0.00	0.00	0.00	0.00
101.00	0.00	755	-3.39	0.00	0.00	0.00	0.00	0.00
102.00	0.00	744	-3.39	0.00	0.00	0.00	0.00	0.00
103.00	0.00	735	-3.40	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
104.00	0.00	725	-3.41	0.00	0.00	0.00	0.00	0.00
105.00	0.00	716	-3.42	0.00	0.00	0.00	0.00	0.00
106.00	0.00	708	-3.42	0.00	0.00	0.00	0.00	0.00
107.00	0.00	699	-3.43	0.00	0.00	0.00	0.00	0.00
108.00	0.00	692	-3.44	0.00	0.00	0.00	0.00	0.00
109.00	0.00	684	-3.44	0.00	0.00	0.00	0.00	0.00
110.00	0.00	677	-3.45	0.00	0.00	0.00	0.00	0.00
111.00	0.00	671	-3.46	0.00	0.00	0.00	0.00	0.00
112.00	0.00	664	-3.46	0.00	0.00	0.00	0.00	0.00
113.00	0.00	658	-3.47	0.00	0.00	0.00	0.00	0.00
114.00	0.00	653	-3.47	0.00	0.00	0.00	0.00	0.00
115.00	0.00	647	-3.47	0.00	0.00	0.00	0.00	0.00
116.00	0.00	642	-3.48	0.00	0.00	0.00	0.00	0.00
117.00	0.00	638	-3.48	0.00	0.00	0.00	0.00	0.00
118.00	0.00	634	-3.49	0.00	0.00	0.00	0.00	0.00
119.00	0.00	630	-3.49	0.00	0.00	0.00	0.00	0.00
120.00	0.00	626	-3.49	0.00	0.00	0.00	0.00	0.00
121.00	0.00	622	-3.49	0.00	0.00	0.00	0.00	0.00
122.00	0.00	619	-3.50	0.00	0.00	0.00	0.00	0.00
123.00	0.00	616	-3.50	0.00	0.00	0.00	0.00	0.00
124.00	0.00	613	-3.50	0.00	0.00	0.00	0.00	0.00
125.00	0.00	610	-3.50	0.00	0.00	0.00	0.00	0.00
126.00	0.00	607	-3.51	0.00	0.00	0.00	0.00	0.00
127.00	0.00	604	-3.51	0.00	0.00	0.00	0.00	0.00
128.00	0.00	601	-3.51	0.00	0.00	0.00	0.00	0.00
129.00	0.00	598	-3.52	0.00	0.00	0.00	0.00	0.00
130.00	0.00	595	-3.52	0.00	0.00	0.00	0.00	0.00
131.00	0.00	592	-3.53	0.00	0.00	0.00	0.00	0.00
132.00	0.00	589	-3.53	0.00	0.00	0.00	0.00	0.00
133.00	0.00	586	-3.54	0.00	0.00	0.00	0.00	0.00
134.00	0.00	583	-3.54	0.00	0.00	0.00	0.00	0.00
135.00	0.00	580	-3.55	0.00	0.00	0.00	0.00	0.00
136.00	0.00	577	-3.55	0.00	0.00	0.00	0.00	0.00
137.00	0.00	574	-3.56	0.00	0.00	0.00	0.00	0.00
138.00	0.00	571	-3.56	0.00	0.00	0.00	0.00	0.00
139.00	0.00	568	-3.57	0.00	0.00	0.00	0.00	0.00
140.00	0.00	565	-3.57	0.00	0.00	0.00	0.00	0.00
141.00	0.00	562	-3.58	0.00	0.00	0.00	0.00	0.00
142.00	0.00	559	-3.58	0.00	0.00	0.00	0.00	0.00
143.00	0.00	556	-3.59	0.00	0.00	0.00	0.00	0.00
144.00	0.00	553	-3.59	0.00	0.00	0.00	0.00	0.00
145.00	0.00	550	-3.60	0.00	0.00	0.00	0.00	0.00
146.00	0.00	547	-3.60	0.00	0.00	0.00	0.00	0.00
147.00	0.00	544	-3.61	0.00	0.00	0.00	0.00	0.00
148.00	0.00	541	-3.61	0.00	0.00	0.00	0.00	0.00
149.00	0.00	538	-3.62	0.00	0.00	0.00	0.00	0.00
150.00	0.00	535	-3.62	0.00	0.00	0.00	0.00	0.00
151.00	0.00	533	-3.63	0.00	0.00	0.00	0.00	0.00
152.00	0.00	530	-3.63	0.00	0.00	0.00	0.00	0.00
153.00	0.00	527	-3.64	0.00	0.00	0.00	0.00	0.00
154.00	0.00	524	-3.64	0.00	0.00	0.00	0.00	0.00
155.00	0.00	521	-3.65	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
156.00	0.00	518	-3.65	0.00	0.00	0.00	0.00	0.00
157.00	0.00	515	-3.66	0.00	0.00	0.00	0.00	0.00
158.00	0.00	512	-3.66	0.00	0.00	0.00	0.00	0.00
159.00	0.00	509	-3.67	0.00	0.00	0.00	0.00	0.00
160.00	0.00	506	-3.67	0.00	0.00	0.00	0.00	0.00
161.00	0.00	503	-3.67	0.00	0.00	0.00	0.00	0.00
162.00	0.00	500	-3.68	0.00	0.00	0.00	0.00	0.00
163.00	0.00	497	-3.68	0.00	0.00	0.00	0.00	0.00
164.00	0.00	494	-3.69	0.00	0.00	0.00	0.00	0.00
165.00	0.00	491	-3.69	0.00	0.00	0.00	0.00	0.00
166.00	0.00	489	-3.70	0.00	0.00	0.00	0.00	0.00
167.00	0.00	486	-3.70	0.00	0.00	0.00	0.00	0.00
168.00	0.00	483	-3.71	0.00	0.00	0.00	0.00	0.00
169.00	0.00	480	-3.71	0.00	0.00	0.00	0.00	0.00
170.00	0.00	477	-3.72	0.00	0.00	0.00	0.00	0.00
171.00	0.00	474	-3.72	0.00	0.00	0.00	0.00	0.00
172.00	0.00	471	-3.73	0.00	0.00	0.00	0.00	0.00
173.00	0.00	468	-3.73	0.00	0.00	0.00	0.00	0.00
174.00	0.00	465	-3.74	0.00	0.00	0.00	0.00	0.00
175.00	0.00	462	-3.74	0.00	0.00	0.00	0.00	0.00
176.00	0.00	460	-3.75	0.00	0.00	0.00	0.00	0.00
177.00	0.00	457	-3.75	0.00	0.00	0.00	0.00	0.00
178.00	0.00	454	-3.76	0.00	0.00	0.00	0.00	0.00
179.00	0.00	451	-3.76	0.00	0.00	0.00	0.00	0.00
180.00	0.00	448	-3.77	0.00	0.00	0.00	0.00	0.00
181.00	0.00	445	-3.77	0.00	0.00	0.00	0.00	0.00
182.00	0.00	442	-3.77	0.00	0.00	0.00	0.00	0.00
183.00	0.00	439	-3.78	0.00	0.00	0.00	0.00	0.00
184.00	0.00	437	-3.78	0.00	0.00	0.00	0.00	0.00
185.00	0.00	434	-3.79	0.00	0.00	0.00	0.00	0.00
186.00	0.00	431	-3.79	0.00	0.00	0.00	0.00	0.00
187.00	0.00	428	-3.80	0.00	0.00	0.00	0.00	0.00
188.00	0.00	425	-3.80	0.00	0.00	0.00	0.00	0.00
189.00	0.00	422	-3.81	0.00	0.00	0.00	0.00	0.00
190.00	0.00	419	-3.81	0.00	0.00	0.00	0.00	0.00
191.00	0.00	416	-3.82	0.00	0.00	0.00	0.00	0.00
192.00	0.00	414	-3.82	0.00	0.00	0.00	0.00	0.00
193.00	0.00	411	-3.83	0.00	0.00	0.00	0.00	0.00
194.00	0.00	408	-3.83	0.00	0.00	0.00	0.00	0.00
195.00	0.00	405	-3.84	0.00	0.00	0.00	0.00	0.00
196.00	0.00	402	-3.84	0.00	0.00	0.00	0.00	0.00
197.00	0.00	399	-3.85	0.00	0.00	0.00	0.00	0.00
198.00	0.00	397	-3.85	0.00	0.00	0.00	0.00	0.00
199.00	0.00	394	-3.85	0.00	0.00	0.00	0.00	0.00
200.00	0.00	391	-3.86	0.00	0.00	0.00	0.00	0.00
201.00	0.00	388	-3.86	0.00	0.00	0.00	0.00	0.00
202.00	0.00	385	-3.87	0.00	0.00	0.00	0.00	0.00
203.00	0.00	382	-3.87	0.00	0.00	0.00	0.00	0.00
204.00	0.00	380	-3.88	0.00	0.00	0.00	0.00	0.00
205.00	0.00	377	-3.88	0.00	0.00	0.00	0.00	0.00
206.00	0.00	374	-3.89	0.00	0.00	0.00	0.00	0.00
207.00	0.00	371	-3.89	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
208.00	0.00	368	-3.90	0.00	0.00	0.00	0.00	0.00
209.00	0.00	365	-3.90	0.00	0.00	0.00	0.00	0.00
210.00	0.00	363	-3.91	0.00	0.00	0.00	0.00	0.00
211.00	0.00	360	-3.91	0.00	0.00	0.00	0.00	0.00
212.00	0.00	357	-3.91	0.00	0.00	0.00	0.00	0.00
213.00	0.00	354	-3.92	0.00	0.00	0.00	0.00	0.00
214.00	0.00	351	-3.92	0.00	0.00	0.00	0.00	0.00
215.00	0.00	349	-3.93	0.00	0.00	0.00	0.00	0.00
216.00	0.00	346	-3.93	0.00	0.00	0.00	0.00	0.00
217.00	0.00	343	-3.94	0.00	0.00	0.00	0.00	0.00
218.00	0.00	340	-3.94	0.00	0.00	0.00	0.00	0.00
219.00	0.00	337	-3.95	0.00	0.00	0.00	0.00	0.00
220.00	0.00	335	-3.95	0.00	0.00	0.00	0.00	0.00
221.00	0.00	332	-3.96	0.00	0.00	0.00	0.00	0.00
222.00	0.00	329	-3.96	0.00	0.00	0.00	0.00	0.00
223.00	0.00	326	-3.97	0.00	0.00	0.00	0.00	0.00
224.00	0.00	323	-3.97	0.00	0.00	0.00	0.00	0.00
225.00	0.00	321	-3.97	0.00	0.00	0.00	0.00	0.00
226.00	0.00	318	-3.98	0.00	0.00	0.00	0.00	0.00
227.00	0.00	315	-3.98	0.00	0.00	0.00	0.00	0.00
228.00	0.00	312	-3.99	0.00	0.00	0.00	0.00	0.00
229.00	0.00	310	-3.99	0.00	0.00	0.00	0.00	0.00
230.00	0.00	307	-4.00	0.00	0.00	0.00	0.00	0.00
231.00	0.00	304	-4.00	0.00	0.00	0.00	0.00	0.00
232.00	0.00	301	-4.01	0.00	0.00	0.00	0.00	0.00
233.00	0.00	298	-4.01	0.00	0.00	0.00	0.00	0.00
234.00	0.00	296	-4.02	0.00	0.00	0.00	0.00	0.00
235.00	0.00	293	-4.02	0.00	0.00	0.00	0.00	0.00
236.00	0.00	290	-4.02	0.00	0.00	0.00	0.00	0.00
237.00	0.00	287	-4.03	0.00	0.00	0.00	0.00	0.00
238.00	0.00	285	-4.03	0.00	0.00	0.00	0.00	0.00
239.00	0.00	282	-4.04	0.00	0.00	0.00	0.00	0.00
240.00	0.00	279	-4.04	0.00	0.00	0.00	0.00	0.00
241.00	0.00	276	-4.05	0.00	0.00	0.00	0.00	0.00
242.00	0.00	274	-4.05	0.00	0.00	0.00	0.00	0.00
243.00	0.00	271	-4.06	0.00	0.00	0.00	0.00	0.00
244.00	0.00	268	-4.06	0.00	0.00	0.00	0.00	0.00
245.00	0.00	265	-4.06	0.00	0.00	0.00	0.00	0.00
246.00	0.00	263	-4.07	0.00	0.00	0.00	0.00	0.00
247.00	0.00	260	-4.07	0.00	0.00	0.00	0.00	0.00
248.00	0.00	257	-4.08	0.00	0.00	0.00	0.00	0.00
249.00	0.00	254	-4.08	0.00	0.00	0.00	0.00	0.00
250.00	0.00	252	-4.09	0.00	0.00	0.00	0.00	0.00
251.00	0.00	249	-4.09	0.00	0.00	0.00	0.00	0.00
252.00	0.00	246	-4.10	0.00	0.00	0.00	0.00	0.00
253.00	0.00	243	-4.10	0.00	0.00	0.00	0.00	0.00
254.00	0.00	241	-4.11	0.00	0.00	0.00	0.00	0.00
255.00	0.00	238	-4.11	0.00	0.00	0.00	0.00	0.00
256.00	0.00	235	-4.11	0.00	0.00	0.00	0.00	0.00
257.00	0.00	233	-4.12	0.00	0.00	0.00	0.00	0.00
258.00	0.00	230	-4.12	0.00	0.00	0.00	0.00	0.00
259.00	0.00	227	-4.13	0.00	0.00	0.00	0.00	0.00

MRC Example 3

NOAA 24-hr C 2-yr NOAA Rainfall=3.26"

Prepared by VU for PADEP

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Hydrograph for Pond 1P: Managed Release Pemeable Pavement (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)	Tertiary (cfs)
260.00	0.00	224	-4.13	0.00	0.00	0.00	0.00	0.00
261.00	0.00	222	-4.14	0.00	0.00	0.00	0.00	0.00
262.00	0.00	219	-4.14	0.00	0.00	0.00	0.00	0.00
263.00	0.00	216	-4.15	0.00	0.00	0.00	0.00	0.00
264.00	0.00	214	-4.15	0.00	0.00	0.00	0.00	0.00
265.00	0.00	211	-4.15	0.00	0.00	0.00	0.00	0.00
266.00	0.00	208	-4.16	0.00	0.00	0.00	0.00	0.00
267.00	0.00	206	-4.16	0.00	0.00	0.00	0.00	0.00
268.00	0.00	203	-4.17	0.00	0.00	0.00	0.00	0.00
269.00	0.00	200	-4.17	0.00	0.00	0.00	0.00	0.00
270.00	0.00	197	-4.18	0.00	0.00	0.00	0.00	0.00
271.00	0.00	195	-4.18	0.00	0.00	0.00	0.00	0.00
272.00	0.00	192	-4.18	0.00	0.00	0.00	0.00	0.00
273.00	0.00	189	-4.19	0.00	0.00	0.00	0.00	0.00
274.00	0.00	187	-4.19	0.00	0.00	0.00	0.00	0.00
275.00	0.00	184	-4.20	0.00	0.00	0.00	0.00	0.00
276.00	0.00	181	-4.20	0.00	0.00	0.00	0.00	0.00
277.00	0.00	179	-4.21	0.00	0.00	0.00	0.00	0.00
278.00	0.00	176	-4.21	0.00	0.00	0.00	0.00	0.00
279.00	0.00	173	-4.22	0.00	0.00	0.00	0.00	0.00
280.00	0.00	171	-4.22	0.00	0.00	0.00	0.00	0.00
281.00	0.00	168	-4.22	0.00	0.00	0.00	0.00	0.00
282.00	0.00	165	-4.23	0.00	0.00	0.00	0.00	0.00
283.00	0.00	163	-4.23	0.00	0.00	0.00	0.00	0.00
284.00	0.00	160	-4.24	0.00	0.00	0.00	0.00	0.00
285.00	0.00	157	-4.24	0.00	0.00	0.00	0.00	0.00
286.00	0.00	155	-4.25	0.00	0.00	0.00	0.00	0.00
287.00	0.00	152	-4.25	0.00	0.00	0.00	0.00	0.00
288.00	0.00	149	-4.26	0.00	0.00	0.00	0.00	0.00
289.00	0.00	147	-4.26	0.00	0.00	0.00	0.00	0.00
290.00	0.00	144	-4.26	0.00	0.00	0.00	0.00	0.00
291.00	0.00	141	-4.27	0.00	0.00	0.00	0.00	0.00
292.00	0.00	139	-4.27	0.00	0.00	0.00	0.00	0.00
293.00	0.00	136	-4.28	0.00	0.00	0.00	0.00	0.00
294.00	0.00	133	-4.28	0.00	0.00	0.00	0.00	0.00
295.00	0.00	131	-4.29	0.00	0.00	0.00	0.00	0.00
296.00	0.00	128	-4.29	0.00	0.00	0.00	0.00	0.00
297.00	0.00	126	-4.29	0.00	0.00	0.00	0.00	0.00
298.00	0.00	123	-4.30	0.00	0.00	0.00	0.00	0.00
299.00	0.00	120	-4.30	0.00	0.00	0.00	0.00	0.00
300.00	0.00	118	-4.31	0.00	0.00	0.00	0.00	0.00