

# Delmarva Unit Hydrograph Worksheet

## Delmarva X,Y coordinates

<b>Duration of Storm</b>	3.39 hrs
<b>Time of Concentration</b>	25.5 hrs
<b>Drainage Area Sq Mi</b>	3.345 mi <sup>2</sup>
<b>Lag</b>	15.3 hrs
<b>Tp</b>	17.00 hrs
<b>Q, in</b>	0.42 in
<b>qp</b>	23.25 csm (in cfs)

<b>Ia/S</b>	0.2
<b>P, in</b>	3.5
<b>CN</b>	57
<b>S</b>	7.5
<b>Q, in</b>	0.42

Time Ratios		Discharge Ratios	
(t/Tp)		(q/qp)	
	0		0
	0.2		0.111
	0.4		0.356
	0.6		0.655
	0.8		0.896
	1		1
	1.2		0.929
	1.4		0.828
	1.6		0.737
	1.8		0.656
	2		0.584
	2.2		0.521
	2.4		0.465
	2.6		0.415
	2.8		0.371
	3		0.331
	3.2		0.296
	3.4		0.265
	3.6		0.237
	3.8		0.212
	4		0.19
	4.2		0.17
	4.4		0.153
	4.6		0.138
	4.8		0.123
	5		0.109
	5.2		0.097
	5.4		0.086
	5.6		0.076
	5.8		0.066
	6		0.057
	6.2		0.049
	6.4		0.041
	6.6		0.033
	6.8		0.027
	7		0.024
	7.2		0.021
	7.4		0.018
	7.6		0.015
	7.8		0.013
	8		0.012
	8.2		0.011
	8.4		0.009
	8.6		0.008

8.8	0.008
9	0.006
9.2	0.006
9.4	0.005
9.6	0.005
9.8	0
10	0

### Delmarva Computed Values

<b>Time</b>	<b>Discharge</b>
hrs	(cfs)
0.00	0.00
3.40	2.58
6.80	8.28
10.20	15.23
13.60	20.83
17.00	23.25
20.39	21.60
23.79	19.25
27.19	17.13
30.59	15.25
33.99	13.58
37.39	12.11
40.79	10.81
44.19	9.65
47.59	8.62
50.99	7.70
54.39	6.88
57.79	6.16
61.18	5.51
64.58	4.93
67.98	4.42
71.38	3.95
74.78	3.56
78.18	3.21
81.58	2.86
84.98	2.53
88.38	2.26
91.78	2.00
95.18	1.77
98.58	1.53
101.97	1.33
105.37	1.14
108.77	0.95
112.17	0.77
115.57	0.63
118.97	0.56
122.37	0.49
125.77	0.42
129.17	0.35
132.57	0.30
135.97	0.28
139.37	0.26
142.76	0.21
146.16	0.19

149.56	0.19
152.96	0.14
156.36	0.14
159.76	0.12
163.16	0.12
166.56	0.00
169.96	0.00