

LOCATION INFORMATION:

Name: Riley-Purgatory-Bluff Creek Watershed Centroid, Minnesota, US*

Latitude: 44.8630

Longitude: -93.5014

Duration	Unit	2-year Depth (in)	10-year Depth (in)	100-year Depth (in)
5	minutes	0.42	0.64	1.03
10	minutes	0.61	0.93	1.50
15	minutes	0.75	1.14	1.83
30	minutes	1.06	1.63	2.65
60	minutes	1.38	2.15	3.71
2	hours	1.70	2.68	4.76
3	hours	1.89	3.00	5.50
6	hours	2.21	3.51	6.52
12	hours	2.53	3.97	7.04
24	hours	2.87	4.27	7.41

Source: Atlas 14

LOCATION INFORMATION:

Name: Riley-Purgatory-Bluff Creek Watershed Centroid, Minnesota, US*

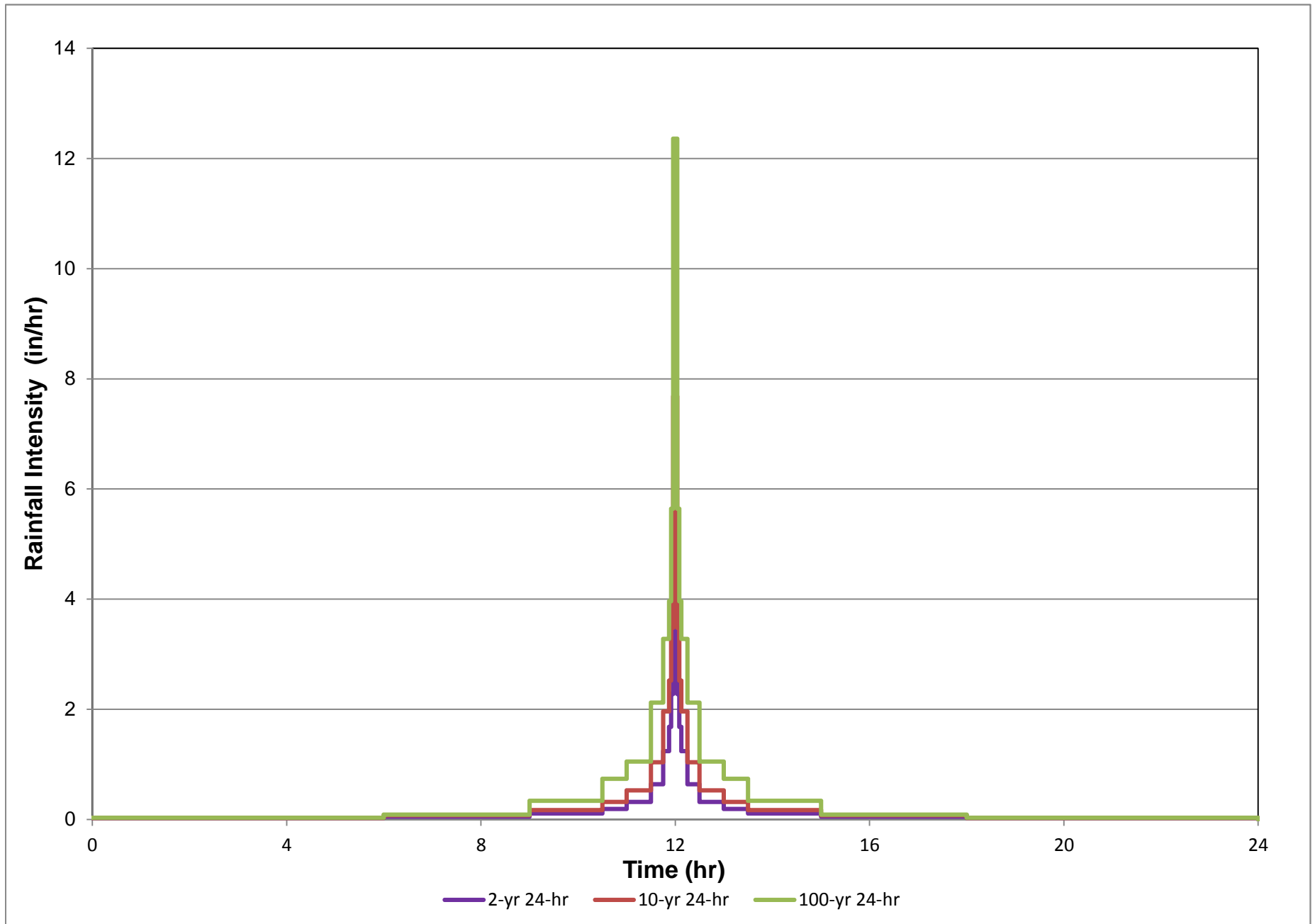
Latitude: 44.8630

Longitude: -93.5014

2-year 24-hour		
Time Interval (hr)	Duration (hr)	Rainfall Intensity (in/hr)
0	6	0.028
6	3	0.028
6	3	0.053
9	1.5	0.053
9	1.5	0.107
10.5	0.5	0.107
10.5	0.5	0.19
11	0.5	0.19
11	0.5	0.32
11.5	0.25	0.32
11.5	0.25	0.64
11.75	0.125	0.64
11.75	0.125	1.24
11.875	0.042	1.24
11.875	0.042	1.68
11.917	0.041	1.68
11.917	0.041	2.28
11.958	0.084	2.28
11.958	0.084	5.04
12.042	0.041	5.04
12.042	0.041	2.28
12.083	0.042	2.28
12.083	0.042	1.68
12.125	0.125	1.68
12.125	0.125	1.24
12.25	0.25	1.24
12.25	0.25	0.64
12.5	0.5	0.64
12.5	0.5	0.32
13	0.5	0.32
13	0.5	0.19
13.5	1.5	0.19
13.5	1.5	0.107
15	3	0.107
15	3	0.053
18	6	0.053
18	6	0.028
24	0	0.028
24	0	0

10-year 24-hour		
Time Interval (hr)	Duration (hr)	Rainfall Intensity (in/hr)
0	6	0.025
6	3	0.025
6	3	0.077
9	1.5	0.077
9	1.5	0.17
10.5	0.5	0.17
10.5	0.5	0.32
11	0.5	0.32
11	0.5	0.53
11.5	0.25	0.53
11.5	0.25	1.04
11.75	0.125	1.04
11.75	0.125	1.96
11.875	0.042	1.96
11.875	0.042	2.52
11.917	0.041	2.52
11.917	0.041	3.48
11.958	0.084	3.48
11.958	0.084	7.68
12.042	0.041	7.68
12.042	0.041	3.48
12.083	0.042	3.48
12.083	0.042	2.52
12.125	0.125	2.52
12.125	0.125	1.96
12.25	0.25	1.96
12.25	0.25	1.04
12.5	0.5	1.04
12.5	0.5	0.53
13	0.5	0.53
13	0.5	0.32
13.5	1.5	0.32
13.5	1.5	0.17
15	3	0.17
15	3	0.077
18	6	0.077
18	6	0.025
24	0	0.025
24	0	0

100-year 24-hour		
Time Interval (hr)	Duration (hr)	Rainfall Intensity (in/hr)
0	6	0.031
6	3	0.031
6	3	0.087
9	1.5	0.087
9	1.5	0.34
10.5	0.5	0.34
10.5	0.5	0.74
11	0.5	0.74
11	0.5	1.05
11.5	0.25	1.05
11.5	0.25	2.12
11.75	0.125	2.12
11.75	0.125	3.28
11.875	0.042	3.28
11.875	0.042	3.96
11.917	0.041	3.96
11.917	0.041	5.64
11.958	0.084	5.64
11.958	0.084	12.36
12.042	0.041	12.36
12.042	0.041	5.64
12.083	0.042	5.64
12.083	0.042	3.96
12.125	0.125	3.96
12.125	0.125	3.28
12.25	0.25	3.28
12.25	0.25	2.12
12.5	0.5	2.12
12.5	0.5	1.05
13	0.5	1.05
13	0.5	0.74
13.5	1.5	0.74
13.5	1.5	0.34
15	3	0.34
15	3	0.087
18	6	0.087
18	6	0.031
24	0	0.031
24	0	0



100-year 10-day Runoff Distribution

Depth Multiplier (in): 7.2 Source: TR-60

TR-20 0.4 q1/q10 Hydrograph

Time (day)	Cumulative Depth (inch)
0	0
0.1	0.028944
0.2	0.058248
0.3	0.087912
0.4	0.117936
0.5	0.148392
0.6	0.179208
0.7	0.210456
0.8	0.242136
0.9	0.27432
1	0.306936
1.1	0.340056
1.2	0.373752
1.3	0.407952
1.4	0.442728
1.5	0.47808
1.6	0.51408
1.7	0.550728
1.8	0.588024
1.9	0.62604
2	0.664848
2.1	0.704448
2.2	0.74484
2.3	0.786096
2.4	0.82836
2.5	0.87156
2.6	0.91584
2.7	0.961272
2.8	1.007928
2.9	1.05588
3	1.105272
3.1	1.156176
3.2	1.208736
3.3	1.263096
3.4	1.319472
3.5	1.378008
3.6	1.438992
3.7	1.502712
3.8	1.569528
3.9	1.639872
4	1.714248
4.1	1.793376
4.2	1.878192
4.3	1.969848
4.4	2.070072
4.5	2.181384
4.6	2.307816
4.7	2.456496
4.8	2.642184
4.9	2.907936
5	4.059936
5.1	4.42584
5.2	4.642128
5.3	4.806576
5.4	4.942944
5.5	5.061168
5.6	5.166576
5.7	5.262264
5.8	5.35032
5.9	5.432184
6	5.508864
6.1	5.581152
6.2	5.649696
6.3	5.714928
6.4	5.77728
6.5	5.83704
6.6	5.894496
6.7	5.949864
6.8	6.003288
6.9	6.054984
7	6.105096
7.1	6.153768
7.2	6.201072
7.3	6.24708
7.4	6.291936
7.5	6.335712
7.6	6.378408
7.7	6.420168
7.8	6.460992
7.9	6.500952
8	6.54012
8.1	6.578496
8.2	6.61608
8.3	6.6528
8.4	6.6888
8.5	6.72408
8.6	6.75864
8.7	6.79248
8.8	6.8256
8.9	6.858
9	6.88968
9.1	6.92064
9.2	6.95088
9.3	6.9804
9.4	7.0092
9.5	7.03728
9.6	7.06464
9.7	7.09128
9.8	7.1208
9.9	7.164
10	7.2

