

Updated Rainfall Data

Source: <http://hdsc.nws.noaa.gov/hdsc/pfds/index.html>

Rainfall Duration

Duration		Return Period Rainfall Depth (in)						
Hours	Minutes	1 year	2 year	5 year	10 year	25 year	50 year	100 year
0.0833	5	0.38	0.46	0.55	0.62	0.72	0.79	0.87
0.1667	10	0.60	0.71	0.85	0.96	1.10	1.20	1.31
0.25	15	0.73	0.87	1.05	1.18	1.35	1.49	1.62
0.5	30	0.97	1.17	1.44	1.64	1.91	2.13	2.34
1	60	1.18	1.43	1.80	2.08	2.48	2.80	3.13
2	120	1.38	1.67	2.11	2.46	2.97	3.38	3.83
3	180	1.47	1.79	2.26	2.65	3.21	3.67	4.18
6	360	1.78	2.15	2.73	3.20	3.89	4.47	5.11
12	720	2.11	2.54	3.18	3.70	4.43	5.05	5.70
24	1440	2.55	3.07	3.82	4.44	5.31	6.04	6.80

Rainfall Intensity

Duration		Return Period Rainfall Intensity (in/hr)						
Hours	Minutes	1 year	2 year	5 year	10 year	25 year	50 year	100 year
0.0833	5	4.61	5.48	6.59	7.45	8.60	9.52	10.42
0.1667	10	3.58	4.28	5.12	5.75	6.58	7.21	7.84
0.25	15	2.92	3.49	4.19	4.72	5.42	5.95	6.49
0.5	30	1.93	2.34	2.87	3.28	3.83	4.25	4.69
1	60	1.18	1.43	1.80	2.08	2.48	2.80	3.13
2	120	0.69	0.84	1.05	1.23	1.48	1.69	1.91
3	180	0.49	0.59	0.75	0.88	1.07	1.22	1.39
6	360	0.30	0.36	0.46	0.53	0.65	0.75	0.85
12	720	0.18	0.21	0.26	0.31	0.37	0.42	0.47
24	1440	0.11	0.13	0.16	0.18	0.22	0.25	0.28

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City of Bloomington Utilities Engineering Department

NO SCALE
6/2/99
M. Hicks

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DEPTH AND INTENSITY DURATION FREQUENCY TABLES

STANDARD
DETAIL
NUMBER **16**