

U.S. Natural Resources Conservation Service
Point Precipitation Frequency Information
for Recurrence Intervals from 1 Year to 1,000 Years and
Durations from 5 Minutes through 60 Days.
(Developed from National Oceanic and Atmospheric Administration,
Atlas 14, Volume 8.0, Version 2.0)

County	Location of NRCS Representative Precipitation Depths
Kenosha	Village of Bristol
Milwaukee	City of Milwaukee
Ozaukee	Village of Grafton
Racine	Village of Union Grove
Walworth	City of Elkhorn
Washington	City of West Bend
Waukesha	City of Waukesha

Point precipitation frequency estimates (inches)										
NOAA Atlas 14	Volume 8	Version 2								
Data type: Precipitation depth										
Time series type: Partial duration										
Project area: Midwestern States										
Kenosha County										
Latitude (decimal degrees): 42.5711										
Longitude (decimal degrees): -88.0665										
PRECIPITATION FREQUENCY ESTIMATES										
by duration for ARI:	1	2	5	10	25	50	100	200	500	1000 years
5-min:	0.34	0.4	0.49	0.57	0.69	0.78	0.88	0.97	1.1	1.21
10-min:	0.49	0.58	0.72	0.84	1.01	1.15	1.28	1.43	1.62	1.77
15-min:	0.6	0.71	0.88	1.02	1.23	1.4	1.56	1.74	1.97	2.15
30-min:	0.85	0.99	1.24	1.45	1.74	1.98	2.22	2.47	2.8	3.07
60-min:	1.06	1.28	1.63	1.94	2.37	2.71	3.06	3.42	3.92	4.3
2-hr:	1.28	1.56	2.03	2.43	3	3.44	3.9	4.38	5.03	5.53
3-hr:	1.41	1.73	2.27	2.74	3.4	3.93	4.47	5.04	5.81	6.41
6-hr:	1.68	2.04	2.65	3.18	3.95	4.57	5.21	5.89	6.83	7.56
12-hr:	2.04	2.37	2.95	3.47	4.24	4.88	5.55	6.28	7.29	8.11
24-hr:	2.39	2.72	3.3	3.83	4.61	5.26	5.95	6.69	7.74	8.59
2-day:	2.7	3.1	3.8	4.41	5.29	6	6.75	7.54	8.63	9.5
3-day:	2.96	3.39	4.12	4.76	5.69	6.44	7.23	8.06	9.21	10.12
4-day:	3.19	3.63	4.38	5.03	5.99	6.77	7.58	8.45	9.65	10.6
7-day:	3.77	4.23	5.03	5.73	6.75	7.58	8.46	9.38	10.67	11.7
10-day:	4.29	4.79	5.64	6.38	7.46	8.34	9.25	10.21	11.54	12.59
20-day:	5.87	6.51	7.56	8.45	9.68	10.65	11.63	12.63	13.97	15.01
30-day:	7.27	8.05	9.3	10.32	11.69	12.72	13.74	14.75	16.05	17
45-day:	9.12	10.1	11.62	12.82	14.38	15.49	16.54	17.53	18.73	19.56
60-day:	10.74	11.9	13.69	15.05	16.76	17.95	19.02	19.98	21.08	21.77
Date/time (GMT): Mon Dec 16 22:08:26 2013										
pyRunTime: 0.0923981666565										

Point precipitation frequency estimates (inches)										
NOAA Atlas 14	Volume 8	Version 2								
Data type: Precipitation depth										
Time series type: Partial duration										
Project area: Midwestern States										
Milwaukee County										
Latitude (decimal degrees): 43.0351										
Longitude (decimal degrees): -87.9275										
PRECIPITATION FREQUENCY ESTIMATES										
by duration for ARI:	1	2	5	10	25	50	100	200	500	1000 years
5-min:	0.33	0.39	0.49	0.58	0.69	0.78	0.87	0.95	1.06	1.15
10-min:	0.48	0.57	0.72	0.85	1.02	1.14	1.27	1.39	1.56	1.68
15-min:	0.58	0.7	0.88	1.03	1.24	1.39	1.55	1.7	1.9	2.05
30-min:	0.82	0.98	1.24	1.46	1.75	1.97	2.18	2.4	2.67	2.87
60-min:	1.05	1.26	1.61	1.91	2.32	2.64	2.96	3.3	3.75	4.09
2-hr:	1.29	1.55	1.98	2.35	2.88	3.31	3.75	4.2	4.83	5.31
3-hr:	1.45	1.72	2.2	2.62	3.23	3.74	4.27	4.84	5.63	6.26
6-hr:	1.73	2.02	2.53	3	3.73	4.34	5.01	5.73	6.77	7.61
12-hr:	2.05	2.32	2.83	3.32	4.08	4.75	5.48	6.29	7.46	8.43
24-hr:	2.34	2.64	3.2	3.73	4.56	5.28	6.06	6.92	8.17	9.19
2-day:	2.62	3.01	3.71	4.34	5.3	6.1	6.96	7.88	9.2	10.26
3-day:	2.87	3.28	4	4.66	5.65	6.48	7.36	8.32	9.67	10.76
4-day:	3.09	3.51	4.25	4.92	5.93	6.78	7.67	8.64	10.02	11.12
7-day:	3.63	4.11	4.95	5.68	6.77	7.66	8.6	9.59	10.99	12.1
10-day:	4.11	4.65	5.56	6.35	7.49	8.41	9.37	10.38	11.77	12.87
20-day:	5.6	6.24	7.28	8.17	9.41	10.38	11.36	12.38	13.74	14.79
30-day:	6.89	7.64	8.85	9.84	11.19	12.21	13.22	14.23	15.54	16.52
45-day:	8.56	9.52	11.01	12.2	13.73	14.85	15.9	16.91	18.15	19.01
60-day:	10	11.18	12.99	14.38	16.13	17.35	18.46	19.47	20.62	21.36
Date/time (GMT): Tue Dec 17 19:17:04 2013										
pyRunTime: 0.0854189395905										

Point precipitation frequency estimates (inches)										
NOAA Atlas 14	Volume 8	Version 2								
Data type: Precipitation depth										
Time series type: Partial duration										
Project area: Midwestern States										
Ozaukee County										
Latitude (decimal degrees): 43.3659										
Longitude (decimal degrees): -87.9340										
PRECIPITATION FREQUENCY ESTIMATES										
by duration for ARI:	1	2	5	10	25	50	100	200	500	1000 years
5-min:	0.33	0.4	0.51	0.59	0.7	0.79	0.87	0.95	1.05	1.11
10-min:	0.48	0.58	0.74	0.87	1.03	1.16	1.27	1.39	1.53	1.63
15-min:	0.59	0.71	0.9	1.06	1.26	1.41	1.55	1.69	1.87	1.99
30-min:	0.8	0.97	1.25	1.46	1.75	1.96	2.16	2.35	2.59	2.76
60-min:	1.03	1.24	1.59	1.88	2.27	2.58	2.89	3.2	3.61	3.92
2-hr:	1.26	1.51	1.93	2.29	2.8	3.21	3.62	4.05	4.63	5.08
3-hr:	1.42	1.68	2.13	2.54	3.13	3.62	4.13	4.68	5.44	6.05
6-hr:	1.71	1.98	2.47	2.93	3.65	4.27	4.94	5.68	6.74	7.6
12-hr:	2.01	2.29	2.81	3.32	4.13	4.84	5.63	6.5	7.79	8.85
24-hr:	2.3	2.61	3.2	3.77	4.68	5.49	6.38	7.37	8.82	10.02
2-day:	2.59	2.96	3.65	4.32	5.36	6.26	7.25	8.35	9.94	11.25
3-day:	2.85	3.22	3.92	4.59	5.66	6.59	7.61	8.75	10.4	11.76
4-day:	3.06	3.44	4.15	4.84	5.92	6.87	7.91	9.06	10.74	12.12
7-day:	3.58	4.04	4.86	5.62	6.79	7.78	8.86	10.03	11.7	13.07
10-day:	4.06	4.58	5.5	6.32	7.55	8.57	9.66	10.82	12.47	13.79
20-day:	5.54	6.18	7.26	8.19	9.51	10.57	11.66	12.79	14.34	15.55
30-day:	6.83	7.59	8.84	9.87	11.29	12.39	13.48	14.58	16.05	17.15
45-day:	8.49	9.46	11	12.22	13.82	14.99	16.11	17.19	18.54	19.49
60-day:	9.93	11.12	12.96	14.38	16.18	17.45	18.61	19.68	20.93	21.75
Date/time (GMT): Tue Dec 17 19:36:07 2013										
pyRunTime: 0.0789699554443										

Point precipitation frequency estimates (inches)										
NOAA Atlas 14	Volume 8	Version 2								
Data type: Precipitation depth										
Time series type: Partial duration										
Project area: Midwestern States										
Latitude (decimal degrees): 42.7553										
Longitude (decimal degrees): -88.0892										
PRECIPITATION FREQUENCY ESTIMATES										
by duration for ARI:	1	2	5	10	25	50	100	200	500	1000 years
5-min:	0.33	0.39	0.49	0.57	0.69	0.78	0.87	0.96	1.09	1.19
10-min:	0.49	0.57	0.72	0.84	1.01	1.14	1.28	1.41	1.59	1.74
15-min:	0.59	0.7	0.88	1.03	1.23	1.39	1.56	1.72	1.95	2.12
30-min:	0.83	0.98	1.23	1.45	1.74	1.97	2.2	2.44	2.75	2.99
60-min:	1.04	1.26	1.62	1.93	2.35	2.69	3.02	3.37	3.84	4.2
2-hr:	1.26	1.54	2.01	2.41	2.97	3.4	3.85	4.31	4.93	5.41
3-hr:	1.39	1.71	2.25	2.71	3.36	3.88	4.41	4.95	5.7	6.28
6-hr:	1.67	2.01	2.61	3.12	3.88	4.49	5.12	5.79	6.72	7.45
12-hr:	2.02	2.33	2.89	3.39	4.15	4.79	5.46	6.19	7.23	8.06
24-hr:	2.35	2.67	3.25	3.77	4.55	5.21	5.92	6.69	7.77	8.65
2-day:	2.64	3.06	3.77	4.39	5.3	6.04	6.81	7.63	8.76	9.66
3-day:	2.91	3.34	4.08	4.73	5.68	6.45	7.26	8.11	9.3	10.23
4-day:	3.14	3.58	4.33	4.99	5.96	6.74	7.57	8.45	9.68	10.65
7-day:	3.71	4.17	4.97	5.68	6.7	7.53	8.41	9.34	10.62	11.64
10-day:	4.22	4.73	5.58	6.33	7.4	8.27	9.17	10.12	11.43	12.47
20-day:	5.79	6.42	7.46	8.33	9.55	10.49	11.45	12.42	13.73	14.73
30-day:	7.17	7.94	9.17	10.17	11.51	12.52	13.51	14.49	15.75	16.68
45-day:	8.99	9.96	11.46	12.65	14.18	15.28	16.31	17.28	18.46	19.26
60-day:	10.58	11.74	13.51	14.87	16.58	17.76	18.82	19.79	20.88	21.57
Date/time (GMT): Tue Dec 17 20:04:52 2013										
pyRunTime: 0.0923898220062										

Point precipitation frequency estimates (inches)										
NOAA Atlas 14	Volume 8	Version 2								
Data type: Precipitation depth										
Time series type: Partial duration										
Project area: Midwestern States										
Walworth County										
Latitude (decimal degrees): 42.6584										
Longitude (decimal degrees): -88.5752										
PRECIPITATION FREQUENCY ESTIMATES										
by duration for ARI:	1	2	5	10	25	50	100	200	500	1000 years
5-min:	0.35	0.41	0.51	0.59	0.7	0.79	0.88	0.98	1.1	1.2
10-min:	0.51	0.6	0.74	0.86	1.03	1.16	1.29	1.43	1.61	1.75
15-min:	0.63	0.73	0.91	1.05	1.26	1.42	1.58	1.75	1.97	2.14
30-min:	0.89	1.03	1.28	1.49	1.78	2.01	2.24	2.48	2.8	3.04
60-min:	1.13	1.33	1.67	1.97	2.38	2.7	3.03	3.37	3.84	4.2
2-hr:	1.37	1.63	2.07	2.44	2.97	3.39	3.82	4.27	4.88	5.35
3-hr:	1.51	1.8	2.31	2.74	3.35	3.84	4.35	4.88	5.6	6.17
6-hr:	1.79	2.12	2.69	3.18	3.9	4.49	5.11	5.75	6.65	7.37
12-hr:	2.12	2.45	3.03	3.54	4.31	4.95	5.63	6.35	7.38	8.2
24-hr:	2.46	2.8	3.42	3.97	4.8	5.49	6.22	7.01	8.12	9.02
2-day:	2.77	3.2	3.93	4.58	5.53	6.3	7.11	7.98	9.18	10.14
3-day:	3.04	3.49	4.26	4.95	5.94	6.76	7.62	8.53	9.8	10.81
4-day:	3.28	3.74	4.53	5.23	6.25	7.09	7.98	8.93	10.25	11.3
7-day:	3.88	4.36	5.21	5.95	7.04	7.93	8.87	9.88	11.27	12.39
10-day:	4.42	4.95	5.86	6.65	7.8	8.74	9.71	10.75	12.18	13.3
20-day:	6.05	6.76	7.92	8.89	10.23	11.27	12.32	13.39	14.82	15.9
30-day:	7.5	8.37	9.75	10.87	12.36	13.48	14.56	15.63	17	18
45-day:	9.42	10.48	12.14	13.44	15.1	16.3	17.41	18.46	19.72	20.57
60-day:	11.12	12.34	14.22	15.66	17.46	18.71	19.83	20.85	21.99	22.71
Date/time (GMT): Tue Dec 17 20:50:43 2013										
pyRunTime: 0.079521894455										

Point precipitation frequency estimates (inches)										
NOAA Atlas 14	Volume 8	Version 2								
Data type: Precipitation depth										
Time series type: Partial duration										
Project area: Midwestern States										
Washington County										
Latitude (decimal degrees): 43.4529										
Longitude (decimal degrees): -88.3057										
PRECIPITATION FREQUENCY ESTIMATES										
by duration for ARI:	1	2	5	10	25	50	100	200	500	1000 years
5-min:	0.34	0.41	0.52	0.61	0.73	0.81	0.9	0.98	1.08	1.16
10-min:	0.5	0.6	0.76	0.89	1.06	1.19	1.31	1.44	1.59	1.7
15-min:	0.6	0.73	0.93	1.09	1.3	1.45	1.6	1.75	1.94	2.07
30-min:	0.81	0.98	1.26	1.48	1.77	1.99	2.2	2.41	2.67	2.86
60-min:	1.03	1.24	1.6	1.89	2.3	2.62	2.94	3.27	3.71	4.05
2-hr:	1.25	1.51	1.94	2.3	2.83	3.25	3.68	4.13	4.75	5.23
3-hr:	1.41	1.68	2.14	2.55	3.16	3.67	4.2	4.76	5.56	6.2
6-hr:	1.71	1.98	2.48	2.96	3.69	4.31	5	5.75	6.83	7.71
12-hr:	2.04	2.31	2.83	3.33	4.14	4.86	5.64	6.52	7.8	8.87
24-hr:	2.35	2.65	3.24	3.82	4.73	5.53	6.41	7.39	8.82	10.01
2-day:	2.64	3.03	3.76	4.44	5.49	6.4	7.39	8.48	10.04	11.32
3-day:	2.9	3.3	4.04	4.75	5.84	6.78	7.81	8.94	10.57	11.91
4-day:	3.13	3.54	4.29	5.01	6.12	7.08	8.13	9.29	10.95	12.31
7-day:	3.67	4.16	5.02	5.82	7.02	8.04	9.13	10.31	12	13.37
10-day:	4.17	4.72	5.68	6.54	7.81	8.86	9.97	11.17	12.84	14.18
20-day:	5.67	6.36	7.51	8.49	9.88	10.99	12.12	13.3	14.91	16.16
30-day:	7	7.8	9.11	10.2	11.69	12.84	13.99	15.15	16.68	17.84
45-day:	8.73	9.72	11.28	12.53	14.18	15.4	16.57	17.71	19.15	20.18
60-day:	10.25	11.41	13.22	14.64	16.46	17.75	18.96	20.09	21.43	22.35
Date/time (GMT): Tue Dec 17 20:55:00 2013										
pyRunTime: 0.0769939422607										

Point precipitation frequency estimates (inches)										
NOAA Atlas 14 Volume 8 Version 2										
Data type: Precipitation depth										
Time series type: Partial duration										
Project area: Midwestern States										
Waukesha County										
Latitude: 43.0230°										
Longitude: -88.3460°										
Elevation: 1035 ft*										
* source: Google Maps										
PRECIPITATION FREQUENCY ESTIMATES										
by duration for ARI:	1	2	5	10	25	50	100	200	500	1000 years
5-min:	0.34	0.41	0.52	0.6	0.72	0.81	0.9	0.98	1.09	1.18
10-min:	0.5	0.6	0.75	0.88	1.05	1.18	1.31	1.44	1.6	1.72
15-min:	0.61	0.73	0.92	1.07	1.28	1.44	1.6	1.75	1.95	2.1
30-min:	0.83	1	1.27	1.49	1.79	2.01	2.23	2.45	2.73	2.93
60-min:	1.07	1.28	1.64	1.94	2.36	2.69	3.02	3.37	3.84	4.2
2-hr:	1.3	1.56	2	2.38	2.93	3.37	3.82	4.3	4.95	5.47
3-hr:	1.46	1.73	2.22	2.65	3.29	3.81	4.37	4.96	5.79	6.46
6-hr:	1.75	2.04	2.56	3.04	3.79	4.42	5.11	5.87	6.95	7.83
12-hr:	2.09	2.36	2.87	3.37	4.14	4.82	5.57	6.4	7.61	8.61
24-hr:	2.4	2.7	3.27	3.81	4.66	5.38	6.18	7.06	8.33	9.38
2-day:	2.67	3.09	3.82	4.49	5.48	6.31	7.2	8.15	9.5	10.59
3-day:	2.94	3.37	4.15	4.84	5.88	6.75	7.67	8.66	10.05	11.17
4-day:	3.17	3.62	4.41	5.12	6.18	7.07	8.01	9.02	10.44	11.59
7-day:	3.75	4.25	5.12	5.89	7.03	7.97	8.95	10.01	11.48	12.65
10-day:	4.27	4.83	5.78	6.6	7.8	8.78	9.79	10.86	12.34	13.51
20-day:	5.86	6.56	7.71	8.67	10.01	11.05	12.09	13.16	14.58	15.67
30-day:	7.26	8.09	9.43	10.51	11.96	13.05	14.11	15.16	16.51	17.5
45-day:	9.09	10.11	11.71	12.96	14.58	15.74	16.84	17.87	19.12	19.98
60-day:	10.7	11.89	13.74	15.15	16.93	18.17	19.29	20.31	21.48	22.22
Date/time (GMT): Thu Aug 28 19:24:55 2014										
pyRunTime: 0.0933849811554										