

POINT PRECIPITATION FREQUENCY ESTIMATES
INDIANAPOLIS WSFO AP Station ID: 12-4259
Location name: Indianapolis, Indiana, USA
Latitude: 39.7317°, Longitude: -86.2789°
Elevation: 790 ft

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)1
 NOAA Atlas 14

Average recurrence interval (years)	100%	50%	20%	10%	25	50
Duration (minutes)						
5-min	0.384(0.346-0.427)	0.457(0.412-0.508)	0.547(0.493-0.608)	0.618(0.554-0.686)	0.709(0.631-0.788)	0.782(0.691-0.871)
5 Low	0.346	0.412	0.493	0.554	0.631	0.691
5 Average	0.384	0.457	0.547	0.618	0.709	0.782
5 High	0.427	0.508	0.608	0.686	0.788	0.871
5 Low	4.15	4.94	5.92	6.65	7.57	8.29
5 Average	4.61	5.48	6.56	7.42	8.51	9.38
5 High	5.12	6.10	7.30	8.23	9.46	10.45
10-min	0.596(0.537-0.664)	0.713(0.643-0.792)	0.850(0.766-0.945)	0.954(0.855-1.06)	1.09(0.966-1.21)	1.19(1.05-1.32)
10 Low	0.537	0.643	0.766	0.855	0.966	1.050
10 Average	0.596	0.713	0.850	0.954	1.090	1.190
10 High	0.664	0.792	0.945	1.060	1.210	1.320
10 Low	3.22	3.86	4.60	5.13	5.80	6.30
10 Average	3.58	4.28	5.10	5.72	6.54	7.14
10 High	3.98	4.75	5.67	6.36	7.26	7.92
15-min	0.731(0.659-0.813)	0.872(0.787-0.969)	1.04(0.940-1.16)	1.17(1.05-1.30)	1.34(1.19-1.49)	1.47(1.30-1.63)
15 Low	0.659	0.787	0.940	1.050	1.190	1.300
15 Average	0.731	0.872	1.040	1.170	1.340	1.470
15 High	0.813	0.969	1.160	1.300	1.490	1.630
15 Low	2.64	3.88	4.64	5.20	5.96	6.52

28.48	30.88	33.92	36.32
113.92	123.52	135.68	145.28
2.30(2.01-2.57)	2.51(2.17-2.81)	2.78(2.37-3.14)	2.99(2.52-3.41)
2.010	2.170	2.370	2.520
2.300	2.510	2.780	2.990
2.570	2.810	3.140	3.410
4.02	4.34	4.74	5.04
4.60	5.02	5.56	5.98
5.14	5.62	6.28	6.82
3.08(2.69-3.43)	3.40(2.95-3.81)	3.85(3.28-4.35)	4.20(3.54-4.78)
2.69	2.95	3.28	3.54
3.08	3.40	3.85	4.20
3.43	3.81	4.35	4.78
2.69	2.95	3.28	3.54
3.08	3.40	3.85	4.20
3.43	3.81	4.35	4.78

Values in parenthesis are PF estimates at lower and upper bounds of the 90% interval) will be greater than the upper bound (or less than the lower bound) is greater than currently valid PMP values. Please refer to NOAA Atlas 14 document

	100	200	500	1000
	1.0%	0.5%	0.2%	0.1%
0.852(0.746-0.951)	0.925(0.802-1.04)	1.02(0.873-1.16)	1.10(0.923-1.25)	
0.746	0.802	0.873	0.923	
0.852	0.925	1.020	1.100	
0.951	1.040	1.160	1.250	
8.95	9.62	10.48	11.08	
10.22	11.10	12.24	13.20	
11.41	12.48	13.92	15.00	
1.28(1.12-1.43)	1.38(1.20-1.55)	1.51(1.28-1.70)	1.60(1.34-1.82)	
1.120	1.200	1.280	1.340	
1.280	1.380	1.510	1.600	
1.430	1.550	1.700	1.820	
6.72	7.20	7.68	8.04	
7.68	8.28	9.06	9.60	
8.58	9.30	10.20	10.92	
1.59(1.40-1.78)	1.72(1.49-1.93)	1.88(1.60-2.12)	2.00(1.68-2.27)	
1.400	1.490	1.600	2.680	
1.590	1.720	1.880	2.000	
1.780	1.930	2.120	2.270	
7.12	7.72	8.48	9.08	

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NOAA Atlas 14

Average recurrence interval (Years)	1	2	5	10	25	50	100*	200	500	1000
Probability	100%	50%	20%	10%	4.0%	2.0%	1.0%	0.5%	0.2%	0.1%
Duration (minutes in/hr)										
5 Low	4.15	4.94	5.92	6.65	7.57	8.29	8.95	9.62	10.48	11.08
5 Average	4.61	5.48	6.56	7.42	8.51	9.38	10.22	11.10	12.24	13.20
5 High	5.12	6.10	7.30	8.23	9.46	10.45	11.41	12.48	13.92	15.00
10 Low	3.22	3.86	4.60	5.13	5.80	6.30	6.72	7.20	7.68	8.04
10 Average	3.58	4.28	5.10	5.72	6.54	7.14	7.68	8.28	9.06	9.60
10 High	3.98	4.75	5.67	6.36	7.26	7.92	8.58	9.30	10.20	10.92
15 Low	2.64	3.15	3.76	4.20	4.76	5.20	5.60	5.96	6.40	6.72
15 Average	2.92	3.49	4.16	4.68	5.36	5.88	6.36	6.88	7.52	8.00
15 High	3.25	3.88	4.64	5.20	5.96	6.52	7.12	7.72	8.48	9.08
30 Low	1.74	2.10	2.58	4.92	3.38	3.70	4.02	4.34	4.74	5.04
30 Average	1.93	2.34	2.86	3.26	3.78	4.20	4.60	5.02	5.56	5.98
30 High	2.16	2.60	3.18	3.62	4.20	4.68	5.14	5.62	6.28	6.82
60 Low	1.06	1.29	1.62	1.86	2.19	2.44	2.69	2.95	3.28	3.54
60 Average*	1.18	1.43	1.79	2.07	2.46	2.76	3.08	3.40	3.85	4.20
60 High	1.31	1.59	1.99	2.30	2.73	3.08	3.43	3.81	4.35	4.78

1 Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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Average recurrence interval (years)	1	2	5	10	25	50	100	200	500	1000
Probability	100%	50%	20%	10%	4.0%	2.0%	100.0%	0.5%	0.2%	0.1%
Duration (minutes in/hr)										
5 Low	4.2	4.9	5.9	6.6	7.6	8.3	9.0	9.6	10.5	11.1
5 Average	4.6	5.5	6.6	7.4	8.5	9.4	10.2	11.1	12.2	13.2
5 High	5.1	6.1	7.3	8.2	9.5	10.5	11.4	12.5	13.9	15.0
10 Low	3.2	3.9	4.6	5.1	5.8	6.3	6.7	7.2	7.7	8.0
10 Average	3.6	4.3	5.1	5.7	6.5	7.1	7.7	8.3	9.1	9.6
10 High	4.0	4.8	5.7	6.4	7.3	7.9	8.6	9.3	10.2	10.9
15 Low	2.6	3.1	3.8	4.2	4.8	5.2	5.6	6.0	6.4	6.7
15 Average	2.9	3.5	4.2	4.7	5.4	5.9	6.4	6.9	7.5	8.0
15 High	3.3	3.9	4.6	5.2	6.0	6.5	7.1	7.7	8.5	9.1
30 Low	1.7	2.1	2.6	2.9	3.4	3.7	4.0	4.3	4.7	5.0
30 Average	1.9	2.3	2.9	3.3	3.8	4.2	4.6	5.0	5.6	6.0
30 High	2.2	2.6	3.2	3.6	4.2	4.7	5.1	5.6	6.3	6.8
60 Low	1.1	1.3	1.6	1.9	2.2	2.4	2.7	3.0	3.3	3.5
60 Average	1.2	1.4	1.8	2.1	2.5	2.8	3.1	3.4	3.9	4.2
60 High	1.3	1.6	2.0	2.3	2.7	3.1	3.4	3.8	4.4	4.8

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