



NOAA Atlas 14, Volume 2, Version 3
 Location name: Henderson, North Carolina, US*
 Latitude: 36.3481°, Longitude: -78.4119°
 Elevation: 360 ft*
 * source: Google Maps



POINT PRECIPITATION FREQUENCY ESTIMATES

G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aeriels](#)

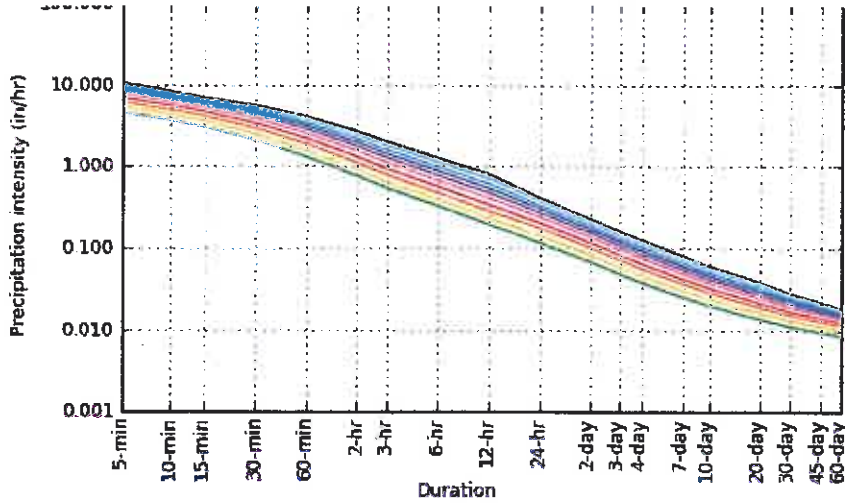
PF tabular

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	4.62 (4.19-5.11)	5.36 (4.86-5.94)	6.13 (5.54-6.77)	6.94 (6.26-7.66)	7.74 (6.96-8.53)	8.39 (7.51-9.25)	8.96 (7.98-9.88)	9.48 (8.39-10.5)	10.1 (8.84-11.1)	10.6 (9.22-11.7)
10-min	3.69 (3.34-4.09)	4.30 (3.89-4.75)	4.91 (4.44-5.42)	5.54 (5.01-6.13)	6.17 (5.54-6.80)	6.68 (5.98-7.37)	7.12 (6.34-7.85)	7.52 (6.65-8.30)	7.96 (6.99-8.80)	8.32 (7.26-9.22)
15-min	3.08 (2.79-3.40)	3.60 (3.26-3.96)	4.14 (3.74-4.57)	4.68 (4.22-5.17)	5.21 (4.68-5.75)	5.64 (5.05-6.22)	6.00 (5.34-6.62)	6.32 (5.60-6.98)	6.68 (5.87-7.38)	6.96 (6.08-7.72)
30-min	2.11 (1.91-2.33)	2.49 (2.25-2.75)	2.94 (2.66-3.25)	3.39 (3.06-3.74)	3.86 (3.47-4.26)	4.25 (3.80-4.68)	4.60 (4.09-5.07)	4.92 (4.36-5.43)	5.31 (4.67-5.87)	5.64 (4.92-6.25)
60-min	1.31 (1.19-1.46)	1.56 (1.41-1.72)	1.88 (1.71-2.08)	2.21 (1.99-2.44)	2.67 (2.31-2.83)	2.88 (2.58-3.17)	3.17 (2.82-3.49)	3.46 (3.05-3.81)	3.81 (3.35-4.21)	4.12 (3.59-4.56)
2-hr	0.768 (0.691-0.854)	0.909 (0.819-1.01)	1.11 (0.998-1.23)	1.32 (1.18-1.46)	1.56 (1.38-1.72)	1.77 (1.57-1.95)	1.97 (1.74-2.18)	2.19 (1.91-2.41)	2.46 (2.13-2.72)	2.70 (2.32-3.00)
3-hr	0.643 (0.489-0.606)	0.644 (0.580-0.719)	0.787 (0.708-0.879)	0.937 (0.839-1.04)	1.12 (0.993-1.24)	1.28 (1.13-1.42)	1.44 (1.26-1.59)	1.60 (1.40-1.77)	1.82 (1.57-2.02)	2.02 (1.72-2.24)
6-hr	0.329 (0.297-0.367)	0.390 (0.352-0.435)	0.477 (0.429-0.531)	0.569 (0.511-0.632)	0.681 (0.607-0.755)	0.785 (0.695-0.868)	0.888 (0.780-0.980)	0.997 (0.867-1.10)	1.14 (0.984-1.26)	1.28 (1.09-1.41)
12-hr	0.194 (0.177-0.215)	0.231 (0.210-0.255)	0.283 (0.257-0.313)	0.340 (0.308-0.375)	0.411 (0.369-0.452)	0.477 (0.426-0.522)	0.544 (0.481-0.595)	0.617 (0.539-0.673)	0.717 (0.617-0.783)	0.812 (0.687-0.886)
24-hr	0.116 (0.109-0.124)	0.140 (0.132-0.150)	0.176 (0.165-0.188)	0.203 (0.190-0.218)	0.242 (0.225-0.258)	0.272 (0.252-0.291)	0.304 (0.280-0.326)	0.336 (0.309-0.361)	0.381 (0.348-0.410)	0.417 (0.378-0.449)
2-day	0.068 (0.064-0.072)	0.081 (0.077-0.087)	0.101 (0.095-0.107)	0.116 (0.109-0.124)	0.137 (0.128-0.146)	0.153 (0.143-0.163)	0.169 (0.157-0.181)	0.186 (0.172-0.199)	0.209 (0.192-0.224)	0.227 (0.208-0.244)
3-day	0.048 (0.045-0.051)	0.067 (0.054-0.081)	0.071 (0.067-0.075)	0.082 (0.077-0.087)	0.096 (0.090-0.102)	0.107 (0.100-0.115)	0.119 (0.110-0.127)	0.131 (0.121-0.140)	0.147 (0.135-0.158)	0.160 (0.146-0.172)
4-day	0.038 (0.035-0.040)	0.045 (0.043-0.048)	0.056 (0.052-0.060)	0.064 (0.060-0.068)	0.076 (0.071-0.081)	0.085 (0.079-0.090)	0.094 (0.087-0.100)	0.103 (0.095-0.111)	0.116 (0.106-0.125)	0.127 (0.115-0.137)
7-day	0.025 (0.024-0.027)	0.030 (0.028-0.032)	0.036 (0.034-0.039)	0.042 (0.039-0.044)	0.049 (0.045-0.052)	0.054 (0.051-0.058)	0.060 (0.056-0.064)	0.066 (0.061-0.071)	0.074 (0.068-0.080)	0.080 (0.073-0.087)
10-day	0.020 (0.019-0.021)	0.024 (0.022-0.025)	0.029 (0.027-0.030)	0.032 (0.030-0.034)	0.038 (0.035-0.040)	0.042 (0.039-0.044)	0.046 (0.043-0.049)	0.050 (0.046-0.053)	0.056 (0.051-0.060)	0.060 (0.055-0.065)
20-day	0.013 (0.013-0.014)	0.016 (0.015-0.017)	0.019 (0.018-0.020)	0.021 (0.020-0.022)	0.024 (0.023-0.026)	0.027 (0.025-0.028)	0.029 (0.027-0.031)	0.032 (0.030-0.034)	0.035 (0.033-0.038)	0.038 (0.035-0.041)
30-day	0.011 (0.011-0.012)	0.013 (0.012-0.014)	0.015 (0.014-0.016)	0.017 (0.016-0.018)	0.019 (0.018-0.020)	0.021 (0.019-0.022)	0.022 (0.021-0.024)	0.024 (0.022-0.025)	0.026 (0.024-0.028)	0.028 (0.026-0.030)
45-day	0.009 (0.009-0.010)	0.011 (0.010-0.011)	0.013 (0.012-0.013)	0.014 (0.013-0.014)	0.015 (0.015-0.016)	0.017 (0.016-0.018)	0.018 (0.017-0.019)	0.019 (0.018-0.020)	0.021 (0.019-0.022)	0.022 (0.020-0.023)
60-day	0.008 (0.008-0.009)	0.010 (0.009-0.010)	0.011 (0.011-0.012)	0.012 (0.012-0.013)	0.013 (0.013-0.014)	0.014 (0.014-0.015)	0.015 (0.014-0.016)	0.016 (0.015-0.017)	0.017 (0.016-0.018)	0.018 (0.017-0.019)

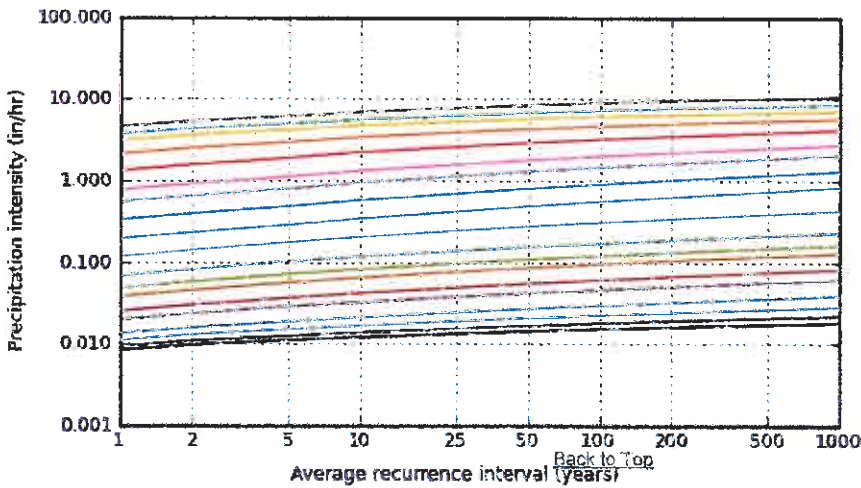
Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average 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.

[Back to Top](#)

[PF graphical](#)



Average recurrence interval (years)
1
2
5
10
25
50
100
200
500
1000



Duration
5-min
10-min
15-min
30-min
60-min
2-hr
3-hr
6-hr
12-hr
24-hr
2-day
3-day
4-day
7-day
10-day
20-day
30-day
45-day
60-day

NOAA Atlas 14, Volume 2, Version 3

Maps & aeriels

Created (GMT): Fri Apr 24 15:49:58 2015

