NOAA Atlas 14, Volume 2, Version 3
Location name: Beallsville, Ohio, US*
Latitude: 39.9017°, Longitude: -81.0183°
Elevation: 1071ft*
* source: Google Maps

POINT PRECIPITATION FREQUENCY ESTIMATES

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NOAA, National Weather Service, Silver Spring, Maryland

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PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.333 (0.297-0.374)	0.398 (0.356-0.448)	0.480 (0.429-0.538)	0.544 (0.484-0.609)	0.625 (0.555-0.698)	0.687 (0.608-0.766)	0.746 (0.658-0.831)	0.807 (0.708-0.898)	0.888 (0.774-0.989)	0.948 (0.822-1.06)
10-min	0.517 (0.462-0.581)	0.622 (0.556-0.699)	0.747 (0.666-0.837)	0.840 (0.748-0.940)	0.955 (0.848-1.07)	1.04 (0.921-1.16)	1.12 (0.990-1.25)	1.20 (1.06-1.34)	1.31 (1.14-1.45)	1.38 (1.20-1.54)
15-min	0.634 (0.566-0.712)	0.760 (0.680-0.854)	0.917 (0.818-1.03)	1.03 (0.920-1.16)	1.18 (1.05-1.32)	1.29 (1.14-1.44)	1.40 (1.23-1.55)	1.50 (1.32-1.67)	1.63 (1.42-1.82)	1.73 (1.50-1.92)
30-min	0.839 (0.749-0.943)	1.02 (0.910-1.14)	1.26 (1.12-1.41)	1.43 (1.28-1.61)	1.67 (1.48-1.86)	1.84 (1.63-2.05)	2.02 (1.78-2.24)	2.19 (1.92-2.43)	2.41 (2.10-2.69)	2.59 (2.24-2.88)
60-min	1.02 (0.915-1.15)	1.25 (1.12-1.40)	1.58 (1.41-1.77)	1.83 (1.63-2.04)	2.16 (1.92-2.41)	2.43 (2.15-2.71)	2.69 (2.37-3.00)	2.97 (2.60-3.30)	3.34 (2.91-3.72)	3.63 (3.15-4.05)
2-hr	1.19 (1.07-1.35)	1.45 (1.30-1.64)	1.84 (1.64-2.07)	2.14 (1.90-2.40)	2.56 (2.26-2.86)	2.89 (2.55-3.23)	3.23 (2.84-3.60)	3.59 (3.13-3.99)	4.08 (3.54-4.53)	4.47 (3.85-4.96)
3-hr	1.27 (1.14-1.43)	1.55 (1.38-1.74)	1.95 (1.75-2.20)	2.27 (2.02-2.55)	2.72 (2.41-3.05)	3.08 (2.72-3.44)	3.46 (3.03-3.86)	3.85 (3.36-4.29)	4.40 (3.81-4.89)	4.84 (4.16-5.38)
6-hr	1.52 (1.37-1.71)	1.83 (1.65-2.06)	2.30 (2.06-2.58)	2.67 (2.39-3.00)	3.20 (2.85-3.58)	3.63 (3.22-4.05)	4.10 (3.61-4.55)	4.58 (4.01-5.07)	5.26 (4.56-5.82)	5.83 (5.00-6.42)
12-hr	1.79 (1.62-2.00)	2.15 (1.94-2.40)	2.66 (2.40-2.97)	3.08 (2.77-3.44)	3.69 (3.30-4.10)	4.20 (3.73-4.65)	4.73 (4.18-5.22)	5.30 (4.66-5.83)	6.11 (5.32-6.71)	6.79 (5.86-7.43)
24-hr	2.10 (1.94-2.28)	2.51 (2.32-2.73)	3.07 (2.84-3.34)	3.53 (3.26-3.83)	4.16 (3.83-4.52)	4.68 (4.29-5.07)	5.21 (4.76-5.65)	5.77 (5.24-6.25)	6.55 (5.90-7.09)	7.16 (6.41-7.76)
2-day	2.46 (2.29-2.66)	2.94 (2.73-3.17)	3.56 (3.30-3.84)	4.06 (3.76-4.37)	4.74 (4.38-5.11)	5.29 (4.86-5.69)	5.85 (5.36-6.30)	6.43 (5.86-6.93)	7.21 (6.53-7.78)	7.83 (7.04-8.45)
3-day	2.64 (2.46-2.84)	3.14 (2.93-3.38)	3.79 (3.53-4.07)	4.30 (4.00-4.62)	5.01 (4.64-5.37)	5.57 (5.14-5.97)	6.14 (5.65-6.58)	6.72 (6.15-7.21)	7.51 (6.83-8.07)	8.12 (7.34-8.74)
4-day	2.82 (2.63-3.02)	3.35 (3.13-3.59)	4.02 (3.75-4.30)	4.55 (4.25-4.87)	5.28 (4.90-5.64)	5.85 (5.42-6.25)	6.43 (5.93-6.87)	7.01 (6.45-7.50)	7.81 (7.13-8.36)	8.41 (7.65-9.02)
7-day	3.41 (3.20-3.64)	4.05 (3.79-4.32)	4.83 (4.52-5.15)	5.44 (5.09-5.80)	6.26 (5.84-6.67)	6.91 (6.43-7.37)	7.57 (7.01-8.06)	8.23 (7.59-8.78)	9.11 (8.36-9.73)	9.79 (8.94-10.5)
10-day	3.94 (3.70-4.20)	4.66 (4.37-4.96)	5.50 (5.16-5.85)	6.16 (5.77-6.55)	7.04 (6.58-7.48)	7.72 (7.20-8.20)	8.39 (7.81-8.92)	9.07 (8.40-9.64)	9.96 (9.18-10.6)	10.6 (9.76-11.3)
20-day	5.54 (5.23-5.88)	6.53 (6.16-6.93)	7.60 (7.17-8.06)	8.42 (7.93-8.94)	9.50 (8.93-10.1)	10.3 (9.67-10.9)	11.1 (10.4-11.8)	11.9 (11.1-12.6)	12.9 (11.9-13.7)	13.6 (12.6-14.5)
30-day	6.96 (6.57-7.38)	8.17 (7.72-8.66)	9.42 (8.89-9.99)	10.4 (9.80-11.0)	11.6 (11.0-12.3)	12.6 (11.8-13.3)	13.5 (12.7-14.3)	14.4 (13.5-15.3)	15.5 (14.5-16.5)	16.4 (15.2-17.4)
45-day	8.94 (8.48-9.43)	10.5 (9.91-11.0)	11.9 (11.3-12.5)	13.0 (12.3-13.7)	14.4 (13.6-15.2)	15.5 (14.6-16.3)	16.5 (15.5-17.4)	17.4 (16.4-18.4)	18.6 (17.4-19.6)	19.4 (18.1-20.6)
60-day	10.8 (10.2-11.3)	12.6 (11.9-13.2)	14.2 (13.5-14.9)	15.4 (14.6-16.2)	16.9 (16.0-17.8)	18.0 (17.0-18.9)	19.0 (18.0-20.0)	19.9 (18.8-21.0)	21.1 (19.9-22.2)	21.9 (20.6-23.1)

[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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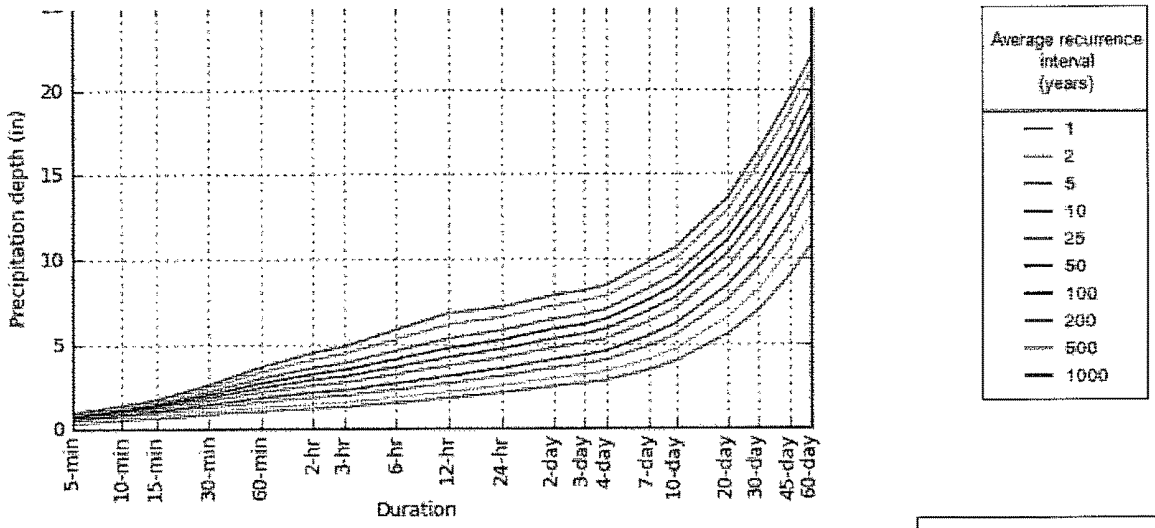
PF graphical


Precipitation depth (in)
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5
10
15
20
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
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Average recurrence interval (years)
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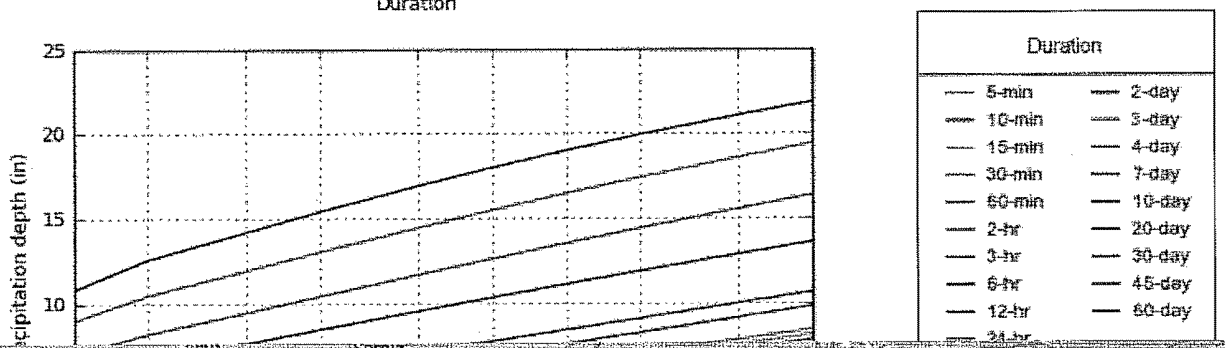
25
50
100
200
500
1000


10
15
20
25
Duration
5-min
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15-min
30-min
60-min
2-hr
3-hr
6-hr
12-hr
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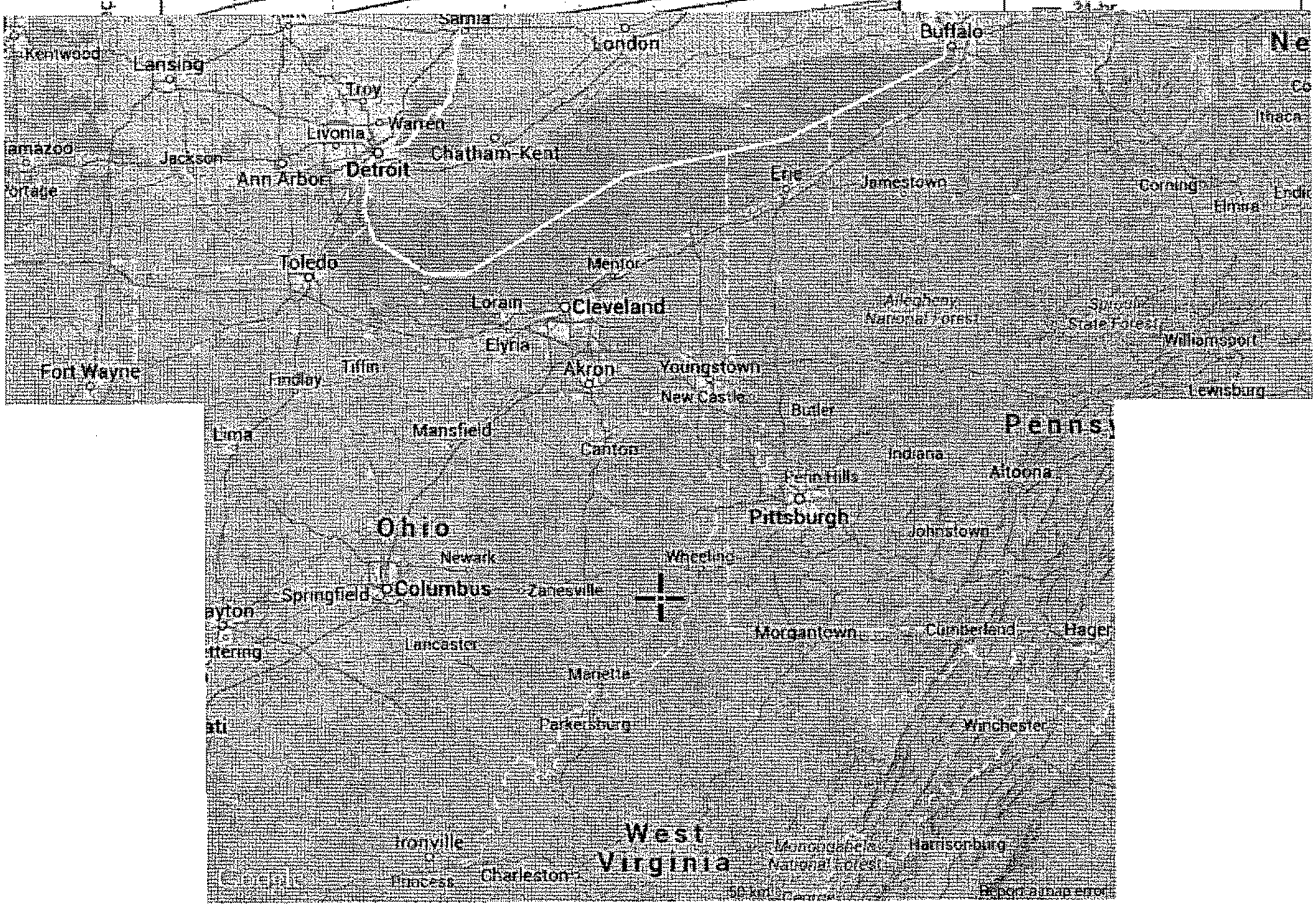
20-day
30-day
45-day
60-day


Sarnia
London
Buffalo
Kentwood
Lansing
Troy
Livonia
Warren
Jackson
Ann Arbor
Detroit
Chatham-Kent
Erie
Jamestown
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Ithaca
Elmira
Toledo
Mentor
Lorain
Cleveland
Elyria
Akron
Youngstown
New Castle
Butler
Allegheny National Forest
Sinnemahoning State Forest
Williamsport
Lewisburg
Fort Wayne
Findlay
Tiffin
Lima
Mansfield
Canton
Indiana
Altoona
Penn Hills
Pittsburgh
Johnstown
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WHEELING, WV US

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	Precipitation Inches	Min Temp °F	Avg Temp °F	Max Temp °F
Annual	40.40	42.6	53.0	63.3
Winter (DJF)	8.74	23.8	32.2	40.6
Spring (MAM)	11.22	39.6	51.2	62.9
Summer (JJA)	11.35	62.1	72.9	83.6
Fall (SON)	9.09	44.8	55.3	65.8

Other ways to access the 1981-2010 Climate Normals

Advanced access to the 1981-2010 Climate Normals through Climate Data Online contains precipitation and temperature Normals as well as supplemental Normals, which include snowfall, heating and cooling degree days, frost/freeze dates, and growing degree days. Locations can be selected on the interactive map by station, zip code, city, county, or state.