

NOAA Atlas 14, Volume 11, Version 2 Location name: Spring, Texas, USA* Latitude: 30.0797°, Longitude: -95.4177° Elevation: 117 ft**

Elevation: 117 ft**

* source: ESRI Maps

** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

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PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

1	Average recurrence interval (years) Average recurrence interval (years)									
Duration	1	2	5	10	25	50	100	200	500	1000
5-min	0.490 (0.371-0.647)	0.577 (0.440-0.754)	0.718 (0.547-0.943)	0.836 (0.627-1.11)	0.998 (0.725-1.37)	1.12 (0.794-1.58)	1.25 (0.862-1.81)	1.38 (0.931-2.06)	1.57 (1.02-2.42)	1.71 (1.08-2.71)
10-min	0.776 (0.588-1.02)	0.916 (0.699-1.20)	1.14 (0.870-1.50)	1.33 (0.999-1.77)	1.59 (1.16-2.19)	1.80 (1.27-2.54)	2.00 (1.38-2.90)	2.20 (1.48-3.28)	2.47 (1.60-3.80)	2.67 (1.69-4.21)
15-min	0.989 (0.748-1.31)	1.16 (0.886-1.52)	1.44 (1.10-1.89)	1.67 (1.25-2.23)	1.99 (1.44-2.73)	2.23 (1.58-3.15)	2.48 (1.71-3.60)	2.74 (1.84-4.08)	3.10 (2.02-4.78)	3.38 (2.14-5.35)
30-min	1.42 (1.07-1.87)	1.65 (1.26-2.16)	2.04 (1.55-2.68)	2.36 (1.77-3.14)	2.80 (2.02-3.82)	3.12 (2.20-4.39)	3.46 (2.39-5.02)	3.84 (2.59-5.73)	4.39 (2.85-6.78)	4.84 (3.06-7.64)
60-min	1.86 (1.41-2.46)	2.19 (1.67-2.86)	2.73 (2.08-3.58)	3.17 (2.38-4.23)	3.79 (2.74-5.18)	4.25 (3.00-5.98)	4.75 (3.27-6.88)	5.32 (3.58-7.94)	6.18 (4.02-9.54)	6.90 (4.37-10.9)
2-hr	2.25 (1.71-2.96)	2.75 (2.08-3.52)	3.51 (2.68-4.58)	4.19 (3.16-5.56)	5.17 (3.77-7.06)	5.96 (4.23-8.37)	6.84 (4.73-9.88)	7.88 (5.32-11.7)	9.48 (6.18-14.6)	10.8 (6.88-17.1)
3-hr	2.46 (1.87-3.22)	3.08 (2.32-3.90)	4.01 (3.06-5.20)	4.87 (3.68-6.44)	6.14 (4.49-8.37)	7.20 (5.13-10.1)	8.41 (5.83-12.1)	9.85 (6.65-14.6)	12.1 (7.87-18.5)	14.0 (8.88-21.9)
6-hr	2.83 (2.16-3.70)	3.68 (2.75-4.57)	4.89 (3.74-6.30)	6.06 (4.60-7.99)	7.84 (5.78-10.7)	9.39 (6.74-13.2)	11.2 (7.79-16.1)	13.3 (9.01-19.6)	16.5 (10.8-25.3)	19.3 (12.3-30.2)
12-hr	3.24 (2.49-4.21)	4.31 (3.20-5.26)	5.79 (4.44-7.42)	7.26 (5.53-9.53)	9.53 (7.08-13.0)	11.6 (8.35-16.2)	13.9 (9.74-19.9)	16.7 (11.3-24.4)	20.8 (13.7-31.7)	24.3 (15.6-37.9)
24-hr	3.67 (2.84-4.76)	4.98 (3.70-6.01)	6.76 (5.20-8.61)	8.54 (6.53-11.2)	11.3 (8.48-15.4)	13.9 (10.1-19.4)	16.8 (11.8-23.9)	20.1 (13.7-29.3)	24.9 (16.4-37.8)	29.0 (18.7-45.1)
2-day	4.12 (3.19-5.32)	5.70 (4.24-6.83)	7.85 (6.07-9.95)	10.0 (7.69-13.0)	13.4 (10.1-18.3)	16.5 (12.1-23.1)	20.0 (14.1-28.4)	23.7 (16.2-34.4)	28.9 (19.1-43.5)	33.0 (21.3-51.1)
3-day	4.48 (3.48-5.76)	6.20 (4.63-7.42)	8.55 (6.63-10.8)	10.9 (8.39-14.2)	14.6 (11.0-19.8)	17.9 (13.2-25.0)	21.6 (15.3-30.6)	25.5 (17.4-36.9)	30.7 (20.3-46.1)	34.8 (22.5-53.7)
4-day	4.80 (3.74-6.17)	6.59 (4.95-7.91)	9.05 (7.04-11.4)	11.5 (8.86-14.9)	15.2 (11.5-20.7)	18.7 (13.7-26.0)	22.4 (15.9-31.7)	26.3 (18.0-38.0)	31.5 (20.9-47.3)	35.7 (23.1-55.0)
7-day	5.62 (4.39-7.20)	7.47 (5.68-9.04)	10.1 (7.86-12.7)	12.6 (9.74-16.3)	16.4 (12.5-22.2)	19.9 (14.6-27.5)	23.7 (16.8-33.3)	27.5 (19.0-39.7)	32.8 (21.9-49.1)	36.9 (24.0-56.8)
10-day	6.31 (4.94-8.06)	8.20 (6.29-9.98)	10.9 (8.54-13.8)	13.5 (10.5-17.4)	17.4 (13.2-23.4)	20.8 (15.3-28.8)	24.6 (17.5-34.6)	28.5 (19.7-41.0)	33.7 (22.5-50.4)	37.9 (24.7-58.1)
20-day	8.36 (6.57-10.6)	10.4 (8.09-12.8)	13.4 (10.5-16.8)	16.1 (12.5-20.7)	20.1 (15.2-26.7)	23.4 (17.2-32.0)	27.0 (19.3-37.8)	30.7 (21.4-44.1)	36.0 (24.1-53.5)	40.1 (26.2-61.3)
30-day	10.1 (7.95-12.8)	12.2 (9.62-15.2)	15.5 (12.2-19.5)	18.3 (14.3-23.4)	22.4 (16.9-29.5)	25.6 (18.8-34.8)	29.0 (20.8-40.5)	32.7 (22.8-46.8)	37.8 (25.4-56.2)	41.9 (27.4-63.8)
45-day	12.6 (9.98-16.0)	14.9 (11.9-18.7)	18.6 (14.8-23.5)	21.7 (17.0-27.8)	26.0 (19.7-34.2)	29.2 (21.5-39.6)	32.6 (23.4-45.4)	36.1 (25.2-51.6)	40.8 (27.6-60.6)	44.6 (29.3-67.8)
60-day	14.9 (11.8-18.9)	17.4 (14.0-21.9)	21.5 (17.2-27.1)	24.9 (19.5-31.7)	29.4 (22.3-38.6)	32.7 (24.1-44.2)	36.0 (25.9-50.1)	39.3 (27.5-56.2)	43.7 (29.5-64.7)	47.0 (30.9-71.4)

Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

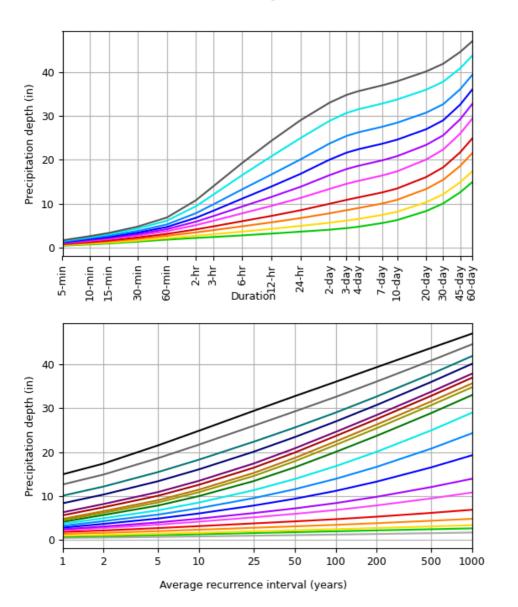
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP

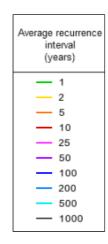
Please refer to NOAA Atlas 14 document for more information.

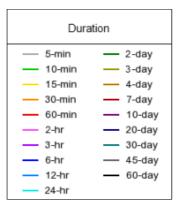
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PF graphical

PDS-based depth-duration-frequency (DDF) curves Latitude: 30.0797°, Longitude: -95.4177°





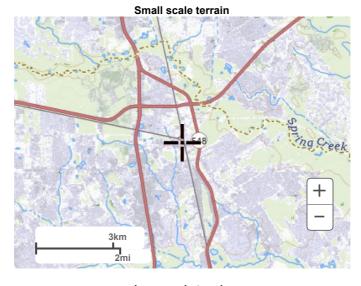


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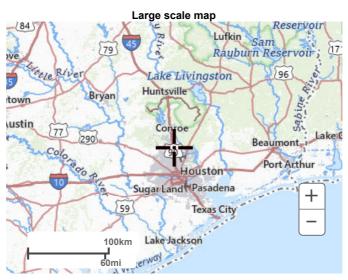
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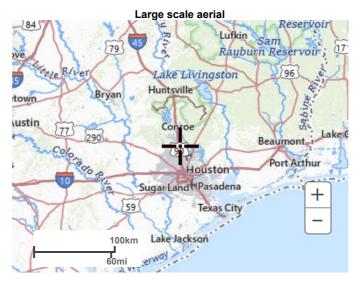
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