

Subarea SETA
(Seaton Basin)

NOAA Atlas 14, Volume 6, Version 2
Location name: Perris, California, US*
Latitude: 33.8208°, Longitude: -117.2732°
Elevation: 1776 ft*
 * source: Google Maps

**POINT PRECIPITATION FREQUENCY ESTIMATES**

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

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

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	0.088 (0.074-0.107)	0.124 (0.103-0.150)	0.172 (0.144-0.209)	0.214 (0.177-0.262)	0.275 (0.219-0.348)	0.324 (0.253-0.420)	0.377 (0.287-0.501)	0.435 (0.321-0.595)	0.518 (0.366-0.740)	0.587 (0.400-0.869)
10-min	0.127 (0.106-0.153)	0.177 (0.148-0.214)	0.247 (0.206-0.300)	0.307 (0.254-0.376)	0.394 (0.314-0.499)	0.465 (0.362-0.602)	0.540 (0.411-0.718)	0.623 (0.460-0.852)	0.742 (0.525-1.06)	0.841 (0.574-1.25)
15-min	0.153 (0.128-0.185)	0.214 (0.179-0.259)	0.299 (0.249-0.363)	0.372 (0.307-0.455)	0.476 (0.380-0.603)	0.562 (0.438-0.728)	0.654 (0.497-0.868)	0.753 (0.556-1.03)	0.898 (0.634-1.28)	1.02 (0.694-1.51)
30-min	0.241 (0.202-0.291)	0.337 (0.282-0.408)	0.471 (0.392-0.571)	0.585 (0.483-0.716)	0.750 (0.598-0.950)	0.885 (0.690-1.15)	1.03 (0.782-1.37)	1.19 (0.876-1.62)	1.41 (0.999-2.02)	1.60 (1.09-2.37)
60-min	0.332 (0.277-0.400)	0.464 (0.387-0.561)	0.647 (0.539-0.784)	0.804 (0.664-0.984)	1.03 (0.822-1.31)	1.22 (0.948-1.57)	1.41 (1.07-1.88)	1.63 (1.20-2.23)	1.94 (1.37-2.77)	2.20 (1.50-3.26)
2-hr	0.499 (0.418-0.603)	0.668 (0.558-0.808)	0.896 (0.747-1.09)	1.09 (0.899-1.33)	1.36 (1.08-1.72)	1.57 (1.23-2.04)	1.80 (1.37-2.39)	2.04 (1.50-2.79)	2.37 (1.68-3.39)	2.65 (1.80-3.92)
3-hr	0.617 (0.516-0.745)	0.813 (0.679-0.984)	1.08 (0.897-1.31)	1.30 (1.07-1.58)	1.60 (1.28-2.03)	1.84 (1.44-2.38)	2.09 (1.59-2.78)	2.35 (1.74-3.22)	2.72 (1.92-3.88)	3.01 (2.05-4.46)
6-hr	0.876 (0.732-1.06)	1.14 (0.953-1.38)	1.49 (1.24-1.81)	1.78 (1.47-2.18)	2.18 (1.74-2.76)	2.48 (1.94-3.22)	2.80 (2.13-3.72)	3.13 (2.31-4.28)	3.58 (2.53-5.12)	3.94 (2.69-5.84)
12-hr	1.17 (0.977-1.41)	1.53 (1.28-1.85)	2.01 (1.67-2.44)	2.40 (1.98-2.94)	2.93 (2.34-3.71)	3.34 (2.60-4.33)	3.76 (2.86-4.99)	4.19 (3.09-5.74)	4.78 (3.38-6.83)	5.25 (3.58-7.77)
24-hr	1.54 (1.37-1.78)	2.06 (1.82-2.38)	2.74 (2.41-3.17)	3.29 (2.88-3.84)	4.04 (3.42-4.88)	4.63 (3.84-5.69)	5.22 (4.23-6.57)	5.83 (4.60-7.55)	6.67 (5.05-8.98)	7.32 (5.36-10.2)
2-day	1.80 (1.59-2.08)	2.45 (2.16-2.83)	3.31 (2.91-3.83)	4.01 (3.51-4.69)	4.99 (4.22-6.02)	5.75 (4.77-7.08)	6.54 (5.30-8.23)	7.36 (5.80-9.52)	8.49 (6.43-11.4)	9.38 (6.87-13.1)
3-day	1.92 (1.69-2.21)	2.63 (2.33-3.04)	3.60 (3.17-4.17)	4.40 (3.85-5.14)	5.52 (4.67-6.66)	6.40 (5.31-7.88)	7.32 (5.93-9.22)	8.28 (6.53-10.7)	9.62 (7.29-13.0)	10.7 (7.83-14.9)
4-day	2.05 (1.81-2.37)	2.85 (2.51-3.29)	3.91 (3.45-4.53)	4.81 (4.20-5.61)	6.06 (5.13-7.30)	7.05 (5.85-8.67)	8.08 (6.55-10.2)	9.18 (7.23-11.9)	10.7 (8.11-14.4)	11.9 (8.74-16.6)
7-day	2.27 (2.01-2.62)	3.19 (2.82-3.68)	4.43 (3.90-5.13)	5.46 (4.78-6.38)	6.92 (5.86-8.35)	8.09 (6.71-9.95)	9.31 (7.54-11.7)	10.6 (8.36-13.7)	12.4 (9.41-16.7)	13.9 (10.2-19.4)
10-day	2.40 (2.12-2.77)	3.38 (2.99-3.90)	4.71 (4.15-5.46)	5.84 (5.11-6.82)	7.43 (6.29-8.96)	8.70 (7.22-10.7)	10.0 (8.13-12.6)	11.5 (9.04-14.8)	13.5 (10.2-18.2)	15.1 (11.1-21.1)
20-day	2.83 (2.50-3.27)	4.03 (3.56-4.66)	5.69 (5.01-6.59)	7.11 (6.21-8.30)	9.15 (7.74-11.0)	10.8 (8.96-13.3)	12.6 (10.2-15.8)	14.5 (11.4-18.7)	17.2 (13.1-23.2)	19.5 (14.3-27.2)
30-day	3.28 (2.90-3.79)	4.67 (4.13-5.39)	6.61 (5.83-7.66)	8.30 (7.25-9.69)	10.7 (9.10-13.0)	12.8 (10.6-15.7)	15.0 (12.1-18.8)	17.4 (13.7-22.5)	20.9 (15.8-28.1)	23.8 (17.4-33.2)
45-day	3.85 (3.40-4.44)	5.42 (4.79-6.26)	7.66 (6.75-8.87)	9.63 (8.42-11.2)	12.6 (10.6-15.1)	15.0 (12.5-18.5)	17.7 (14.4-22.3)	20.8 (16.4-26.9)	25.3 (19.1-34.0)	29.1 (21.3-40.5)
60-day	4.40 (3.89-5.08)	6.11 (5.40-7.06)	8.59 (7.56-9.94)	10.8 (9.44-12.6)	14.1 (12.0-17.0)	17.0 (14.1-20.9)	20.1 (16.3-25.4)	23.7 (18.7-30.7)	29.2 (22.1-39.3)	33.9 (24.8-47.3)

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.

[Back to Top](#)