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**Hydrometeorological Design Studies Center**  
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## NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: CA

### Data description

Data type:  Units:  Time series type:

### Select location

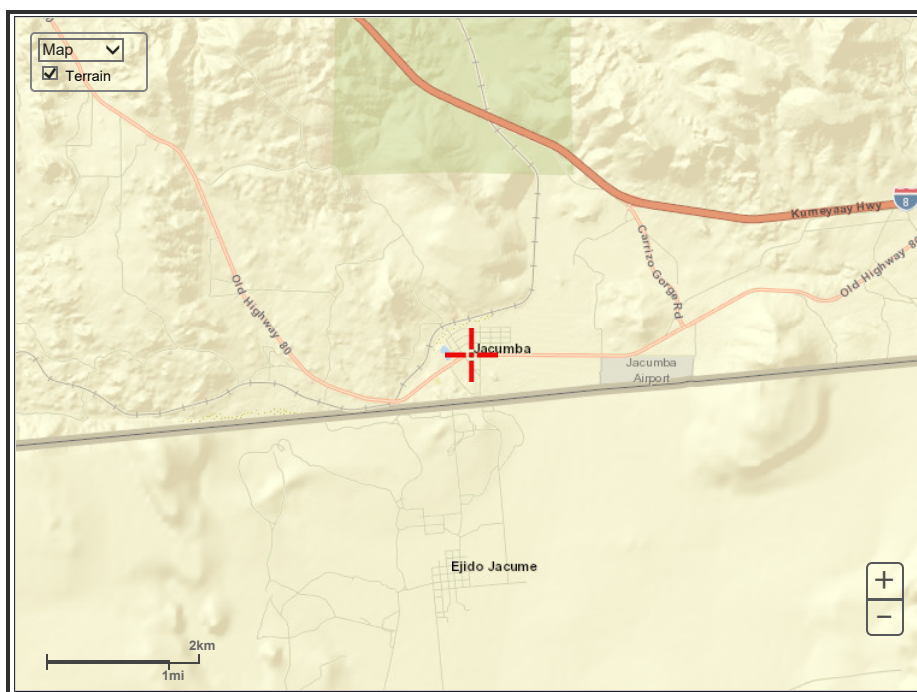
#### 1) Manually:

a) By location (decimal degrees, use "-" for S and W): Latitude:  Longitude:

b) By station (list of CA stations):

c) By address

#### 2) Use map (if ESRI interactive map is not loading, try adding the host: <https://js.arcgis.com/> to the firewall, or contact us at [hdsc.questions@noaa.gov](mailto:hdsc.questions@noaa.gov)):



- a) Select location
  - Move crosshair or double click
- b) Click on station icon
  - Show stations on map

#### Location information:

Name: Jacumba, California, USA\*  
 Latitude: 32.6177°  
 Longitude: -116.1885°  
 Elevation: 2818.31 ft \*\*

\* Source: ESRI Maps  
 \*\* Source: USGS

### POINT PRECIPITATION FREQUENCY (PF) ESTIMATES WITH 90% CONFIDENCE INTERVALS AND SUPPLEMENTARY INFORMATION NOAA Atlas 14, Volume 6, Version 2

PF tabular

PF graphical

Supplementary information

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PDS-based precipitation frequency estimates with 90% confidence intervals (in inches) <sup>1</sup>										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.124 (0.104-0.148)	0.158 (0.133-0.189)	0.212 (0.179-0.255)	0.264 (0.220-0.320)	0.349 (0.281-0.438)	0.427 (0.336-0.548)	0.520 (0.398-0.685)	0.632 (0.470-0.858)	0.815 (0.580-1.16)	0.987 (0.677-1.45)
10-min	0.177 (0.150-0.212)	0.227 (0.191-0.272)	0.304 (0.256-0.366)	0.379 (0.316-0.459)	0.500 (0.402-0.627)	0.612 (0.481-0.785)	0.745 (0.571-0.981)	0.905 (0.674-1.23)	1.17 (0.832-1.66)	1.42 (0.971-2.08)
15-min	0.214 (0.181-0.256)	0.274 (0.231-0.328)	0.368 (0.310-0.442)	0.458 (0.382-0.555)	0.604 (0.486-0.759)	0.740 (0.582-0.950)	0.901 (0.690-1.19)	1.10 (0.815-1.49)	1.41 (1.01-2.01)	1.71 (1.17-2.52)
30-min	0.298 (0.251-0.356)	0.381 (0.321-0.456)	0.511 (0.430-0.614)	0.636 (0.530-0.771)	0.840 (0.676-1.05)	1.03 (0.808-1.32)	1.25 (0.959-1.65)	1.52 (1.13-2.07)	1.96 (1.40-2.79)	2.38 (1.63-3.50)
60-min	0.414 (0.350-0.495)	0.530 (0.447-0.634)	0.711 (0.598-0.854)	0.884 (0.737-1.07)	1.17 (0.939-1.47)	1.43 (1.12-1.83)	1.74 (1.33-2.29)	2.12 (1.57-2.87)	2.73 (1.94-3.87)	3.30 (2.27-4.86)
2-hr	0.557 (0.470-0.666)	0.708 (0.597-0.848)	0.944 (0.794-1.13)	1.17 (0.974-1.42)	1.53 (1.23-1.93)	1.87 (1.47-2.40)	2.26 (1.74-2.98)	2.74 (2.04-3.72)	3.51 (2.50-4.98)	4.23 (2.90-6.22)
3-hr	0.653 (0.551-0.781)	0.831 (0.701-0.994)	1.11 (0.930-1.33)	1.37 (1.14-1.66)	1.79 (1.44-2.24)	2.17 (1.71-2.78)	2.62 (2.01-3.45)	3.15 (2.34-4.28)	4.01 (2.85-5.69)	4.80 (3.29-7.06)
6-hr	0.852 (0.720-1.02)	1.09 (0.922-1.31)	1.46 (1.23-1.75)	1.80 (1.50-2.18)	2.34 (1.88-2.93)	2.81 (2.21-3.61)	3.36 (2.58-4.43)	4.01 (2.98-5.44)	5.02 (3.57-7.12)	5.92 (4.06-8.72)
12-hr	1.09	1.44	1.95	2.41	3.11	3.71	4.37	5.12	6.24	7.21

	(0.921-1.30)	(1.22-1.72)	(1.64-2.34)	(2.01-2.92)	(2.50-3.90)	(2.92-4.76)	(3.35-5.76)	(3.81-6.95)	(4.45-8.86)	(4.95-10.6)
24-hr	<b>1.42</b> (1.25-1.64)	<b>1.93</b> (1.70-2.24)	<b>2.66</b> (2.34-3.09)	<b>3.30</b> (2.87-3.86)	<b>4.24</b> (3.58-5.12)	<b>5.02</b> (4.17-6.18)	<b>5.87</b> (4.76-7.39)	<b>6.81</b> (5.39-8.80)	<b>8.19</b> (6.24-11.0)	<b>9.35</b> (6.89-12.9)
2-day	<b>1.64</b> (1.45-1.90)	<b>2.26</b> (1.99-2.62)	<b>3.15</b> (2.77-3.67)	<b>3.93</b> (3.43-4.61)	<b>5.09</b> (4.30-6.14)	<b>6.05</b> (5.02-7.44)	<b>7.10</b> (5.76-8.94)	<b>8.27</b> (6.54-10.7)	<b>9.98</b> (7.59-13.4)	<b>11.4</b> (8.42-15.8)
3-day	<b>1.78</b> (1.57-2.06)	<b>2.46</b> (2.16-2.85)	<b>3.44</b> (3.02-4.00)	<b>4.31</b> (3.76-5.05)	<b>5.60</b> (4.74-6.76)	<b>6.69</b> (5.55-8.23)	<b>7.88</b> (6.39-9.91)	<b>9.21</b> (7.28-11.9)	<b>11.2</b> (8.51-15.0)	<b>12.9</b> (9.48-17.8)
4-day	<b>1.89</b> (1.66-2.18)	<b>2.61</b> (2.30-3.02)	<b>3.67</b> (3.22-4.26)	<b>4.60</b> (4.01-5.39)	<b>5.99</b> (5.07-7.23)	<b>7.17</b> (5.94-8.82)	<b>8.46</b> (6.86-10.6)	<b>9.90</b> (7.83-12.8)	<b>12.1</b> (9.18-16.2)	<b>13.9</b> (10.2-19.2)
7-day	<b>2.06</b> (1.82-2.39)	<b>2.85</b> (2.51-3.31)	<b>4.01</b> (3.52-4.67)	<b>5.05</b> (4.40-5.91)	<b>6.59</b> (5.57-7.96)	<b>7.90</b> (6.55-9.72)	<b>9.33</b> (7.57-11.7)	<b>10.9</b> (8.65-14.1)	<b>13.3</b> (10.1-17.9)	<b>15.4</b> (11.3-21.3)
10-day	<b>2.18</b> (1.92-2.53)	<b>3.02</b> (2.66-3.50)	<b>4.25</b> (3.73-4.94)	<b>5.36</b> (4.67-6.27)	<b>7.02</b> (5.93-8.47)	<b>8.42</b> (6.98-10.4)	<b>9.96</b> (8.08-12.5)	<b>11.7</b> (9.24-15.1)	<b>14.3</b> (10.9-19.1)	<b>16.5</b> (12.1-22.8)
20-day	<b>2.62</b> (2.31-3.04)	<b>3.63</b> (3.19-4.21)	<b>5.13</b> (4.50-5.96)	<b>6.48</b> (5.65-7.59)	<b>8.53</b> (7.21-10.3)	<b>10.3</b> (8.52-12.6)	<b>12.2</b> (9.89-15.3)	<b>14.3</b> (11.3-18.5)	<b>17.5</b> (13.3-23.5)	<b>20.2</b> (14.9-28.0)
30-day	<b>3.11</b> (2.74-3.60)	<b>4.29</b> (3.78-4.97)	<b>6.08</b> (5.34-7.06)	<b>7.69</b> (6.70-9.01)	<b>10.2</b> (8.58-12.3)	<b>12.2</b> (10.1-15.1)	<b>14.5</b> (11.8-18.3)	<b>17.1</b> (13.5-22.0)	<b>20.8</b> (15.8-27.9)	<b>23.9</b> (17.7-33.1)
45-day	<b>3.54</b> (3.12-4.11)	<b>4.92</b> (4.33-5.70)	<b>6.99</b> (6.14-8.13)	<b>8.87</b> (7.73-10.4)	<b>11.8</b> (9.94-14.2)	<b>14.2</b> (11.8-17.5)	<b>16.9</b> (13.7-21.2)	<b>19.8</b> (15.6-25.5)	<b>24.1</b> (18.3-32.3)	<b>27.6</b> (20.4-38.2)
60-day	<b>4.06</b> (3.57-4.70)	<b>5.63</b> (4.95-6.52)	<b>8.01</b> (7.03-9.31)	<b>10.2</b> (8.86-11.9)	<b>13.5</b> (11.4-16.2)	<b>16.3</b> (13.5-20.0)	<b>19.3</b> (15.7-24.3)	<b>22.6</b> (17.9-29.2)	<b>27.4</b> (20.9-36.8)	<b>31.4</b> (23.2-43.5)

<sup>1</sup> 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.

Estimates from the table in CSV format:

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 Page last modified: April 21, 2017

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