

Climatology of the United States

No. 20

1971-2000

Station: LOMPOC, CA

COOP ID: 045064

Climate Division: CA 6

NWS Call Sign:

Elevation: 95 Feet

Lat: 34° 39N

Lon: 120° 27W

Temperature (°F)

Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	66.0	41.4	53.7	86	1986	27	58.5	1986	23	1960	2	49.2	1979	350	0	.0	.0	31.0	.0	2.4	.0
Feb	67.3	43.3	55.3	89	1995	2	60.0	1995	26+	1990	15	50.5	1979	272	2	.0	.0	28.0	.0	.9	.0
Mar	68.2	44.5	56.4	96	1988	26	60.3	1988	27	1967	5	51.4	1977	260	7	.0	.1	31.0	.0	.5	.0
Apr	70.9	45.6	58.3	105	1989	6	64.1	1989	29	1953	9	53.7	1975	215	12	.1	.6	30.0	.0	@	.0
May	71.2	48.7	60.0	98	1970	15	64.5	1992	34	1974	18	56.7	1999	170	13	.0	.4	31.0	.0	.0	.0
Jun	73.7	51.5	62.6	100	1976	27	65.7	1981	34	1979	15	59.0	1999	98	25	@	.7	30.0	.0	.0	.0
Jul	75.4	53.5	64.5	101	1985	1	67.4+	1992	41+	1961	7	60.5	1971	71	54	.0	.3	31.0	.0	.0	.0
Aug	76.7	54.5	65.6	104	1962	28	69.0	1983	37	1954	27	62.5+	1999	48	66	.0	.3	31.0	.0	.0	.0
Sep	77.8	53.6	65.7	106	1978	24	72.5	1984	36	1950	30	62.6	1974	64	84	.1	1.1	30.0	.0	.0	.0
Oct	76.4	49.6	63.0	110	1987	4	67.5	1987	27	1961	23	58.2	1971	105	44	.1	1.2	31.0	.0	.1	.0
Nov	71.1	44.0	57.6	98	1997	1	62.0	1976	25	1958	17	52.5	1994	237	14	.0	.3	30.0	.0	.7	.0
Dec	66.7	40.2	53.5	90	1958	3	57.9	1977	20	1990	22	48.5	1978	360	1	.0	.0	30.9	.0	3.3	.0
Ann	71.8	47.5	59.7	110	Oct 1987	4	72.5	Sep 1984	20	Dec 1990	22	48.5	Dec 1978	2250	322	.3	5.0	364.9	.0	7.9	.0

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

Climatography of the United States

No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: LOMPOC, CA

COOP ID: 045064

Climate Division: CA 6

NWS Call Sign:

Elevation: 95 Feet

Lat: 34° 39N

Lon: 120° 27W

Precipitation (inches)

		Precipitation Totals								Mean Number of Days (3)				Precipitation Probabilities (1)											
														Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
Means/Medians(1)		Extremes								Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels											
														These values were determined from the incomplete gamma distribution											
Month	Mean	Median	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	
Jan	3.20	2.18	3.28	1952	15	15.37	1995	.00	1976	7.8	5.7	2.4	.9	.06	.24	.63	1.07	1.58	2.18	2.92	3.86	5.20	7.49	9.78	
Feb	3.64	2.58	3.11	1980	16	15.40	1998	.03	1997	7.9	5.4	2.3	1.2	.10	.24	.60	1.04	1.60	2.28	3.14	4.29	5.95	8.86	11.83	
Mar	3.38	2.68	3.87	2001	5	11.63	1991	.00+	1997	7.5	5.5	2.5	.9	.00	.22	.73	1.25	1.81	2.45	3.22	4.17	5.49	7.71	9.90	
Apr	.93	.46	2.50	2000	17	3.55	1983	.00	1985	3.7	2.1	.5	.2	.00	.02	.08	.17	.30	.48	.72	1.05	1.55	2.46	3.41	
May	.31	.02	1.22	1977	8	2.54	1977	.00+	2000	1.8	.8	.1	@	.00	.00	.00	.00	.00	.00	.08	.25	.51	1.02	1.55	
Jun	.04	.00	.46	1995	16	.70	1995	.00+	1999	.5	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.01	.05	.14	.24	
Jul	.01	.00	.30	1950	10	.08	1997	.00+	2000	.5	.0	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.05	
Aug	.05	.00	.54	1976	19	.57	1976	.00+	2000	.4	.1	@	.0	**	**	**	**	**	**	**	**	**	**	**	
Sep	.24	.03	1.15	1976	11	2.67	1976	.00+	1999	1.3	.5	.2	@	.00	.00	.00	.00	.00	.02	.07	.18	.36	.71	1.14	
Oct	.48	.39	1.39	1968	14	2.07	2000	.00+	1999	2.4	1.4	.3	@	.00	.00	.00	.06	.18	.31	.45	.62	.85	1.24	1.61	
Nov	1.34	.81	2.59	1953	14	5.06	1985	.00+	2000	4.9	3.0	.8	.3	.00	.00	.21	.41	.65	.92	1.24	1.65	2.22	3.19	4.15	
Dec	2.23	1.72	2.46	1997	5	5.42	1971	.00	1989	6.3	4.0	1.7	.5	.08	.26	.58	.91	1.26	1.66	2.14	2.74	3.56	4.93	6.28	
Ann	15.85	15.00	3.87	Mar 2001	5	15.40	Feb 1998	.00+	Nov 2000	45.0	28.6	10.8	4.0	5.78	7.27	9.41	11.21	12.91	14.67	16.57	18.78	21.60	25.95	29.94	

+ Also occurred on an earlier date(s)

Denotes amounts of a trace

@ Denotes mean number of days greater than 0 but less than .05

** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

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Freeze Data									
Spring Freeze Dates (Month/Day)									
Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/04	4/18	4/07	3/28	3/19	3/10	2/28	2/17	2/01
32	3/23	3/08	2/25	2/16	2/08	1/30	1/21	1/11	12/27
28	2/05	1/21	1/08	12/26	12/03	0/00	0/00	0/00	0/00
24	12/20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
Fall Freeze Dates (Month/Day)									
Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	10/28	11/04	11/09	11/13	11/17	11/21	11/25	11/30	12/06
32	11/11	11/22	11/30	12/07	12/14	12/20	12/27	1/04	1/16
28	12/02	12/22	1/08	1/28	0/00	0/00	0/00	0/00	0/00
24	12/25	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	294	276	263	252	242	232	221	208	190
32	>365	338	321	310	301	292	283	273	259
28	>365	>365	>365	>365	>365	>365	>365	>365	329
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

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Degree Days to Selected Base Temperatures (°F)

Base	Heating Degree Days (1)												
	Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
65	350	272	260	215	170	98	71	48	64	105	237	360	2250
60	203	147	148	106	69	24	13	6	15	32	126	215	1104
57	127	89	93	61	30	7	4	0	5	12	78	141	647
55	88	60	62	36	15	2	0	0	1	5	52	102	423
50	22	13	15	8	1	0	0	0	0	0	14	31	104
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
32	673	654	754	787	866	917	1007	1041	1010	962	767	665	10103
55	49	69	104	134	168	229	294	328	321	254	129	54	2133
57	25	42	72	98	121	174	235	266	265	199	94	31	1622
60	8	16	34	54	67	101	152	179	185	126	53	12	987
65	0	2	7	12	13	25	54	66	84	44	14	1	322
70	0	0	0	0	0	2	9	11	23	8	2	0	55

Growing Degree Units (2)

Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	426	448	509	543	617	673	749	783	761	709	517	415	426	874	1383	1926	2543	3216	3965	4748	5509	6218	6735	7150
45	275	304	354	393	462	523	594	628	611	554	368	264	275	579	933	1326	1788	2311	2905	3533	4144	4698	5066	5330
50	140	165	200	245	307	373	439	473	461	399	222	129	140	305	505	750	1057	1430	1869	2342	2803	3202	3424	3553
55	43	60	79	115	153	223	284	318	311	246	101	40	43	103	182	297	450	673	957	1275	1586	1832	1933	1973
60	4	14	15	32	43	85	134	164	164	109	33	0	4	18	33	65	108	193	327	491	655	764	797	797
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	258	259	286	315	340	381	444	474	463	429	319	261	258	517	803	1118	1458	1839	2283	2757	3220	3649	3968	4229

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Notes

- a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
- b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
- c. Only observed validated values were used to select the extreme daily values.
- d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.
Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.
- e. Degree Days were derived using the same techniques as the 1971-2000 normals.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html
- f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set.
Documentation of the serially complete data set is available from the link below:
- g. Snowfall and snow depth statistics were derived from the Snow Climatology.
Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

- U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html
Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf