

Climatology of the United States

No. 20

1971-2000

Station: SANTA PAULA, CA

COOP ID: 047957

Climate Division: CA 6

NWS Call Sign:

Elevation: 237 Feet

Lat: 34° 19N

Lon: 119° 08W

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	68.1	41.2	54.7	92	1962	7	60.0	1986	25	1974	3	50.1	1973	323	0	.0	.1	30.9	.0	2.4	.0
Feb	69.1	42.4	55.8	92+	1986	24	60.4	1995	26	1971	27	52.0	1989	261	2	.0	.3	27.9	@	1.0	.0
Mar	69.8	43.5	56.7	96	1988	26	60.6	1997	25+	1966	3	52.5	1991	249	8	.0	.3	31.0	.0	.1	.0
Apr	73.6	45.5	59.6	105	1989	6	64.1	1989	30	1953	9	53.6	1975	182	19	.1	.9	30.0	.0	.1	.0
May	74.3	49.5	61.9	102	1978	28	67.4	1997	35	1975	6	58.6	1977	130	35	@	.7	31.0	.0	.0	.0
Jun	77.5	53.0	65.3	106	1973	20	70.3	1981	37	1950	7	61.3	1982	59	68	.2	.9	30.0	.0	.0	.0
Jul	80.7	55.9	68.3	105	1985	1	72.1	1984	42+	1966	13	63.2	1987	19	120	@	1.9	31.0	.0	.0	.0
Aug	81.9	56.5	69.2	105	1972	22	74.3	1971	40	1999	27	65.1	1987	25	154	.1	2.9	31.0	.0	.0	.0
Sep	81.0	54.9	68.0	109	1963	26	75.0	1984	40	1948	30	63.4	1986	43	131	.5	3.6	30.0	.0	.0	.0
Oct	78.2	49.7	64.0	108	1958	17	68.1	1983	32	1976	30	59.3	1975	79	46	.3	2.6	31.0	.0	@	.0
Nov	73.0	43.5	58.3	99+	1997	2	63.9	1976	28	1975	30	53.3	1975	217	15	.0	.7	30.0	.0	.7	.0
Dec	68.8	40.6	54.7	99	1958	4	58.3	1976	25+	1990	22	48.5	1971	324	4	.0	@	30.8	.0	2.6	.0
Ann	74.7	48.0	61.4	109	Sep 1963	26	75.0	Sep 1984	25+	Dec 1990	22	48.5	Dec 1971	1911	602	1.2	14.9	364.6	@	6.9	.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: 1948-2001

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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	Med-ian	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	4.18	2.55	5.63	1969	25	18.26	1995	.00+	1976	6.3	5.0	2.6	1.4	.00	.10	.53	1.09	1.76	2.59	3.63	4.99	6.95	10.37	13.84
Feb	4.65	2.94	6.48	1980	17	20.89	1998	.00	1984	5.5	4.7	3.0	1.6	.03	.18	.61	1.17	1.88	2.78	3.92	5.45	7.68	11.60	15.61
Mar	3.57	2.90	3.88	1952	16	11.79	1978	.00+	1997	6.4	5.1	2.3	1.2	.00	.00	.92	1.55	2.16	2.83	3.59	4.53	5.74	7.77	9.72
Apr	.80	.43	3.50	2000	17	3.50	2000	.00+	1997	2.4	1.4	.5	.2	.00	.00	.00	.01	.10	.25	.49	.83	1.36	2.35	3.40
May	.30	.00	1.24	1998	13	3.46	1998	.00+	2000	1.0	.7	.2	.1	.00	.00	.00	.00	.00	.00	.01	.12	.39	.99	1.70
Jun	.05	.00	.64	1993	5	.64	1993	.00+	2000	.3	.1	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.02	.16	.34
Jul	.01	.00	.17	1992	12	.17	1992	.00+	2000	.3	@	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07
Aug	.08	.00	.83	1983	19	1.11+	1983	.00+	2000	.3	.2	.1	.0	**	**	**	**	**	**	**	**	**	**	**
Sep	.32	.00	2.13	1976	29	4.06	1976	.00+	2000	1.2	.4	.2	.1	.00	.00	.00	.00	.00	.00	.02	.14	.42	1.03	1.75
Oct	.52	.28	2.50	1983	1	3.60	1983	.00+	1999	1.5	1.0	.3	.1	.00	.00	.00	.00	.11	.24	.41	.63	.93	1.46	1.99
Nov	1.45	.90	5.04	1970	29	5.10	1982	.00+	2000	3.5	2.4	1.1	.4	.00	.00	.12	.33	.58	.89	1.27	1.76	2.46	3.65	4.86
Dec	2.48	1.67	5.12	1974	4	8.20	1971	.00+	2000	3.9	3.1	1.5	.9	.00	.00	.35	.79	1.25	1.76	2.36	3.12	4.16	5.85	7.53
Ann	18.41	16.50	6.48	Feb 1980	17	20.89	Feb 1998	.00+	Dec 2000	32.6	24.1	11.8	6.0	5.77	7.52	10.12	12.34	14.49	16.71	19.16	22.03	25.73	31.49	36.82

+ 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: 1948-2001

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

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Lon: 119° 08W

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

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

-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	4/25	4/13	4/04	3/28	3/21	3/14	3/07	2/26	2/14
32	3/09	2/21	2/10	1/31	1/22	1/12	1/02	12/21	12/01
28	2/02	1/17	1/02	12/13	0/00	0/00	0/00	0/00	0/00
24	0/00	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	11/05	11/11	11/16	11/21	11/25	11/30	12/06	12/14
32	11/11	11/22	11/30	12/08	12/14	12/21	12/28	1/06	1/20
28	12/07	12/21	1/02	1/21	0/00	0/00	0/00	0/00	0/00
24	0/00	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	287	270	259	249	241	233	224	213	199
32	>365	>365	358	339	325	314	303	290	274
28	>365	>365	>365	>365	>365	>365	>365	344	319
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)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below													
65	323	261	249	182	130	59	19	25	43	79	217	324	1911
60	184	137	141	85	49	12	1	4	10	17	111	187	938
57	117	82	87	44	20	3	0	0	4	4	65	122	548
55	83	53	57	25	10	1	0	0	0	1	42	88	360
50	22	10	13	5	0	0	0	0	0	0	10	26	86
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above													
32	701	665	765	827	928	998	1125	1153	1078	990	788	703	10721
55	71	74	109	162	225	309	412	440	388	279	140	78	2687
57	44	46	76	121	172	251	350	378	332	219	103	50	2142
60	17	17	37	72	108	170	257	289	248	140	59	22	1436
65	0	2	8	19	35	68	120	154	131	46	15	4	602
70	0	0	0	3	7	13	35	64	54	7	2	0	185

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	469	471	534	602	693	763	891	901	845	755	560	465	469	940	1474	2076	2769	3532	4423	5324	6169	6924	7484	7949
45	317	326	379	452	538	613	736	746	695	600	410	314	317	643	1022	1474	2012	2625	3361	4107	4802	5402	5812	6126
50	172	190	227	303	383	463	581	591	545	445	262	174	172	362	589	892	1275	1738	2319	2910	3455	3900	4162	4336
55	72	85	100	161	228	313	426	436	395	293	131	69	72	157	257	418	646	959	1385	1821	2216	2509	2640	2709
60	23	30	29	59	92	165	271	281	245	147	48	17	23	53	82	141	233	398	669	950	1195	1342	1390	1407
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	292	294	321	372	412	466	574	583	535	466	360	302	292	586	907	1279	1691	2157	2731	3314	3849	4315	4675	4977

(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.

- a. Temperature/ Precipitation Tables
 1. 1971-2000 Monthly Normals
 2. Cooperative Summary of the Day
 3. National Weather Service station records
 4. 1971-2000 serially complete daily data
- b. Degree Day Table
 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
 1. Snow Climatology
 2. Cooperative Summary of the Day
- d. 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