U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: OXNARD (CAMARILLO), CA **COOP ID: 046569**

Climate Division: CA 6 **NWS Call Sign:** **Elevation: 49 Feet** **Lat: 34˚12N** **Lon: 119˚11W**

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	65.6	45.5	55.6	88+	1976	18	61.1	1986	29	1949	11	51.9	1979	295	2	.0	.0	30.9	.0	.1	.0
Feb	65.8	46.6	56.2	91	1954	23	60.9	1995	28	1962	28	51.2	1979	251	4	.0	@	27.9	.0	.1	.0
Mar	65.5	47.9	56.7	94+	1988	26	61.5	1988	31	1966	3	53.0	1973	246	5	.0	.1	31.0	.0	@	.0
Apr	67.5	49.6	58.6	100	1989	6	63.5	1992	35+	1967	16	53.7	1975	199	8	@	.2	30.0	.0	.0	.0
May	67.7	53.2	60.5	98+	1979	14	65.2	1997	39	1950	8	57.6	1971	157	16	.0	.1	31.0	.0	.0	.0
Jun	70.2	56.4	63.3	102+	1981	17	69.0	1981	42+	1961	11	60.6	1982	88	37	.1	.4	30.0	.0	.0	.0
Jul	72.7	59.1	65.9	94	1960	21	69.2	1984	44+	1949	14	63.1	1978	42	71	.0	.0	31.0	.0	.0	.0
Aug	73.9	60.0	67.0	97+	1983	7	71.2	1984	46	1948	14	63.1	1999	37	98	.0	.1	31.0	.0	.0	.0
Sep	73.8	58.7	66.3	103	1978	24	73.2	1984	42	1948	29	62.6	1999	58	95	.1	.5	30.0	.0	.0	.0
Oct	72.8	54.5	63.7	103+	1961	15	67.8	1983	37+	1971	30	60.7	1971	86	44	@	1.1	31.0	.0	.0	.0
Nov	69.7	48.9	59.3	98	1976	5	64.3	1976	33	1964	18	55.2	1994	189	19	.0	.4	30.0	.0	.0	.0
Dec	66.4	45.3	55.9	96	1958	3	59.6	1976	29	1968	21	50.0	1971	288	4	.0	.0	31.0	.0	.2	.0
Ann	69.3	52.1	60.8	103+	Sep 1978	24	73.2	Sep 1984	28	Feb 1962	28	50.0	Dec 1971	1936	403	.2	2.9	364.8	.0	.4	.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/normals/usnormals.html

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.41	2.29	5.96	1956	26	15.24	1995	.00+	1976
Feb	3.90	2.43	4.30	1962	8	17.40	1998	.00+	1984
Mar	3.04	2.61	4.60	1968	8	8.89	1978	.00+	1997
Apr	.72	.43	2.00	2000	17	3.82	1983	.00+	1997
May	.21	.00	.96	1998	12	2.11	1998	.00+	2000
Jun	.05	.00	.62	1963	11	.59	1993	.00+	2000
Jul	.02	.00	.58	1996	10	.58	1996	.00+	2000
Aug	.07	.00	.89	1977	18	1.04	1977	.00+	2000
Sep	.36	.04	3.72	1976	29	5.55	1976	.00+	1996
Oct	.36	.19	1.74	1983	1	2.28	1983	.00+	1999
Nov	1.37	.93	3.78	1970	29	5.44	1985	.00+	2000
Dec	2.11	1.67	5.10	1997	5	6.25	1997	.00+	1999
Ann	15.62	13.78	5.96	Jan 1956	26	17.40	Feb 1998	.00+	Nov 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.6	4.7	2.2	1.2
Feb	6.0	4.7	2.8	1.3
Mar	6.4	4.7	2.0	1.0
Apr	2.6	1.5	.4	.2
May	1.0	.6	.1	.0
Jun	.4	.1	@	.0
Jul	.2	@	@	.0
Aug	.4	.2	.1	.0
Sep	1.3	.6	.2	@
Oct	1.5	1.0	.1	.1
Nov	3.3	2.2	1.0	.4
Dec	4.0	2.8	1.4	.7
Ann	33.7	23.1	10.3	4.9

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.00	.12	.52	1.00	1.56	2.23	3.06	4.12	5.64	8.24	10.85
Feb	.00	.06	.40	.87	1.48	2.25	3.24	4.57	6.50	9.93	13.43
Mar	.00	.10	.47	.90	1.40	1.99	2.73	3.67	5.02	7.33	9.66
Apr	.00	.00	.00	.02	.14	.31	.53	.83	1.27	2.05	2.84
May	.00	.00	.00	.00	.00	.00	.01	.11	.31	.70	1.12
Jun	.00	.00	.00	.00	.00	.00	.00	.00	.05	.17	.32
Jul	**	**	**	**	**	**	**	**	**	**	**
Aug	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.43
Sep	.00	.00	.00	.00	.00	.03	.10	.26	.54	1.04	1.69
Oct	.00	.00	.00	.01	.06	.14	.25	.40	.63	1.03	1.44
Nov	.00	.00	.04	.22	.45	.75	1.13	1.62	2.35	3.60	4.90
Dec	.00	.00	.31	.64	1.00	1.42	1.94	2.60	3.50	5.06	6.60
Ann	4.93	6.41	8.61	10.49	12.31	14.19	16.26	18.68	21.81	26.67	31.17

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	#	1979	29	#	1979	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	N/A	N/A	#	Jan 1979	29	#	Jan 1979	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	3/02	2/16	2/05	1/24	1/10	0/00	0/00	0/00	0/00
32	12/23	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	0/00	0/00	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	12/07	12/21	1/01	1/13	1/28	0/00	0/00	0/00	0/00
32	1/20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	0/00	0/00	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	>365	>365	>365	>365	>365	>365	>365	325	295
32	>365	>365	>365	>365	>365	>365	>365	>365	>365
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
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	Ann
65	295	251	246	199	157	88	42	37	58	86	189	288	1936
60	157	130	131	92	61	21	5	6	13	20	91	154	881
57	95	78	76	47	24	6	0	0	5	6	49	95	481
55	63	50	47	25	12	2	0	0	0	2	29	64	294
50	13	10	9	4	0	0	0	0	0	0	6	14	56
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	731	677	766	797	883	939	1052	1084	1027	981	819	739	10495
55	80	83	100	132	181	251	339	371	337	270	159	90	2393
57	50	54	68	94	132	196	277	309	282	212	119	59	1852
60	19	22	29	49	75	121	189	221	200	133	70	26	1154
65	2	4	5	8	16	37	71	98	95	44	19	4	403
70	0	0	0	0	1	5	12	25	29	7	3	0	82

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	496	485	538	580	662	729	831	865	815	758	599	505	496	981	1519	2099	2761	3490	4321	5186	6001	6759	7358	7863
45	343	340	384	430	507	579	676	710	665	603	449	350	343	683	1067	1497	2004	2583	3259	3969	4634	5237	5686	6036
50	194	198	229	281	352	429	521	555	515	448	299	205	194	392	621	902	1254	1683	2204	2759	3274	3722	4021	4226
55	82	82	96	139	198	279	366	400	365	293	158	87	82	164	260	399	597	876	1242	1642	2007	2300	2458	2545
60	27	28	28	42	69	132	211	245	215	146	59	27	27	55	83	125	194	326	537	782	997	1143	1202	1229
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	265	255	278	312	359	430	521	554	513	451	336	278	265	520	798	1110	1469	1899	2420	2974	3487	3938	4274	4552

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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