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: LEMON COVE, CA **COOP ID: 044890**

Climate Division: CA 5 **NWS Call Sign:** **Elevation: 513 Feet** **Lat: 36˚23N** **Lon: 119˚02W**

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	57.1	37.4	47.3	79+	1986	29	53.1	1986	20	1949	12	40.3	1972	550	0	.0	.0	25.2	.0	7.6	.0
Feb	64.2	41.1	52.7	82+	1989	23	56.8	1991	23	1962	27	47.3	1971	346	0	.0	.0	27.3	@	1.5	.0
Mar	69.3	44.4	56.9	88+	1997	20	61.3	1978	27	1966	3	51.8	1973	267	14	.0	.0	30.9	.0	.6	.0
Apr	76.6	47.2	61.9	97	1954	16	67.8	1989	31+	1955	3	55.3	1975	149	55	.0	1.8	30.0	.0	.2	.0
May	85.3	52.8	69.1	108	1950	30	74.7	1992	35+	1988	1	61.4	1998	51	177	.9	9.1	31.0	.0	.0	.0
Jun	93.6	58.4	76.0	114	1950	30	80.6	1981	42+	1975	25	71.9	1998	2	332	5.5	19.7	30.0	.0	.0	.0
Jul	98.7	63.0	80.9	114	1950	1	84.4	1996	47	1987	18	75.1	1987	0	491	11.9	28.6	31.0	.0	.0	.0
Aug	97.3	61.9	79.6	112	1996	14	82.8	1996	48	1954	26	74.8	1976	0	452	9.0	26.6	31.0	.0	.0	.0
Sep	91.7	57.9	74.8	109+	1955	2	78.4	1984	40	1950	30	68.9	1986	4	298	3.5	17.9	30.0	.0	.0	.0
Oct	81.8	50.6	66.2	101+	1996	10	71.2	1991	29	1971	29	61.7	1981	78	115	.2	5.3	31.0	.0	@	.0
Nov	67.0	41.4	54.2	87+	1980	5	59.7	1995	27+	2000	27	48.6	1994	328	5	.0	.0	29.6	.0	1.9	.0
Dec	57.5	36.3	46.9	78	1981	20	53.2	1977	19	1990	23	42.4	1972	561	0	.0	.0	25.5	.0	8.9	.0
Ann	78.3	49.4	63.9	114+	Jul 1950	1	84.4	Jul 1996	19	Dec 1990	23	40.3	Jan 1972	2336	1939	31.0	109.0	352.5	@	20.7	.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	2.80	2.66	2.90	1969	19	6.97	1997	.01	1976
Feb	2.53	2.37	2.35	1978	10	6.43	1998	.17	1988
Mar	2.98	2.53	1.75	1995	11	9.05	1991	.00	1972
Apr	1.10	.98	1.46	1963	7	4.17	1998	.00+	1997
May	.54	.21	1.46	1977	12	2.63	1977	.00+	1997
Jun	.16	.00	1.41	1993	5	1.55	1993	.00+	1999
Jul	.01	.00	.13	1950	10	.10	1984	.00+	2000
Aug	.04	.00	.65	1983	9	.67	1983	.00+	2000
Sep	.33	.04	1.40	1978	6	2.78	1978	.00+	1997
Oct	.76	.65	1.56	1956	4	2.21	1982	.00+	1999
Nov	1.56	1.24	1.64	1970	29	3.96	1983	.00+	1995
Dec	1.75	1.58	3.43	1955	23	5.10	1996	.00+	1999
Ann	14.56	12.74	3.43	Dec 1955	23	9.05	Mar 1991	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.2	5.7	2.0	.6
Feb	7.5	5.3	1.7	.5
Mar	8.3	5.7	2.3	.6
Apr	3.8	2.5	.6	.3
May	2.4	1.2	.3	.1
Jun	.5	.3	.1	.1
Jul	.2	@	.0	.0
Aug	.3	.1	@	.0
Sep	1.2	.7	.2	.1
Oct	2.4	1.6	.5	@
Nov	5.3	3.3	1.1	.3
Dec	6.4	3.8	1.3	.3
Ann	46.5	30.2	10.1	2.9

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	.20	.38	.74	1.12	1.55	2.05	2.64	3.40	4.45	6.22	7.97
Feb	.27	.46	.81	1.17	1.55	1.97	2.47	3.09	3.94	5.34	6.70
Mar	.26	.60	1.09	1.52	1.97	2.46	3.01	3.68	4.58	6.04	7.44
Apr	.00	.00	.13	.29	.47	.70	.97	1.33	1.84	2.71	3.59
May	.00	.00	.00	.02	.09	.20	.36	.58	.92	1.54	2.20
Jun	.00	.00	.00	.00	.00	.00	.00	.00	.11	.50	1.00
Jul	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07
Aug	**	**	**	**	**	**	**	**	**	**	**
Sep	.00	.00	.00	.00	.00	.02	.10	.26	.53	1.06	1.63
Oct	.00	.00	.05	.18	.33	.50	.70	.95	1.30	1.89	2.49
Nov	.00	.00	.37	.64	.91	1.21	1.55	1.97	2.53	3.45	4.35
Dec	.00	.22	.55	.83	1.11	1.42	1.77	2.18	2.75	3.67	4.55
Ann	7.17	8.40	10.09	11.44	12.69	13.93	15.26	16.77	18.65	21.49	24.03

\+ 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

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.0	0	0
Feb	.0	.0	0	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	.0	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	.0	0	0	.0	0	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	.0	0	0	.0	0	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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	5/02	4/20	4/11	4/03	3/27	3/20	3/13	3/04	2/20
32	4/03	3/20	3/09	2/28	2/19	2/11	2/02	1/22	1/07
28	2/05	1/24	1/15	1/06	12/28	12/16	0/00	0/00	0/00
24	1/06	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	10/26	11/01	11/05	11/08	11/12	11/15	11/18	11/23	11/28
32	11/05	11/13	11/18	11/23	11/27	12/02	12/06	12/12	12/19
28	12/03	12/09	12/14	12/19	12/24	12/30	0/00	0/00	0/00
24	12/27	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	269	255	245	236	228	220	212	202	188
32	332	311	298	287	277	268	257	245	228
28	>365	>365	>365	>365	>365	>365	347	324	306
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	550	346	267	149	51	2	0	0	4	78	328	561	2336
60	401	212	148	70	16	0	0	0	0	28	198	407	1480
57	315	141	95	37	7	0	0	0	0	12	133	320	1060
55	261	102	66	23	4	0	0	0	0	6	97	264	823
50	150	33	19	5	0	0	0	0	0	1	35	144	387
32	2	0	0	0	0	0	0	0	0	0	0	0	2

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	475	578	770	897	1148	1320	1514	1475	1284	1060	667	462	11650
55	21	36	123	229	439	630	801	762	594	353	74	12	4074
57	13	19	91	184	380	570	739	700	534	297	50	7	3584
60	6	6	50	127	297	480	646	607	444	220	25	0	2908
65	0	0	14	55	177	332	491	452	298	115	5	0	1939
70	0	0	2	17	89	193	336	298	166	48	0	0	1149

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	229	369	514	645	888	1066	1254	1216	1037	806	423	222	229	598	1112	1757	2645	3711	4965	6181	7218	8024	8447	8669
45	112	229	359	495	733	916	1099	1061	887	651	277	102	112	341	700	1195	1928	2844	3943	5004	5891	6542	6819	6921
50	41	111	215	348	578	766	944	906	737	498	147	33	41	152	367	715	1293	2059	3003	3909	4646	5144	5291	5324
55	6	37	101	214	424	616	789	751	587	347	63	2	6	43	144	358	782	1398	2187	2938	3525	3872	3935	3937
60	0	3	32	108	280	466	634	596	437	208	15	0	0	3	35	143	423	889	1523	2119	2556	2764	2779	2779
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	121	205	299	399	561	660	768	748	650	507	253	123	121	326	625	1024	1585	2245	3013	3761	4411	4918	5171	5294

(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