

Climatology of the United States

No. 20 1971-2000

Station: LA MESA, CA

COOP ID: 044735

Climate Division: CA 6

NWS Call Sign:

Elevation: 530 Feet

Lat: 32°46N

Lon: 117°01W

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	68.5	45.7	57.1	90	1971	18	63.1	1986	26	1949	4	53.6	1979	249	3	.0	@	31.0	.0	.4	.0
Feb	69.5	46.9	58.2	91	1963	3	62.8	1995	31	1953	22	54.7	1990	195	5	.0	@	28.1	.0	@	.0
Mar	69.8	48.6	59.2	96+	1988	26	63.5	1997	34	1966	3	55.4	1973	193	14	.0	.2	31.0	.0	.0	.0
Apr	73.1	51.4	62.3	105	1989	6	68.1	1989	31	1986	26	56.8	1975	127	45	.1	.7	30.0	.0	.0	.0
May	74.3	55.3	64.8	100	1979	13	71.2	1997	41	1979	10	60.6	1977	87	80	@	.9	31.0	.0	.0	.0
Jun	78.9	58.7	68.8	103+	1990	27	73.4	1981	47+	1988	7	64.1	1982	25	139	.4	2.7	30.0	.0	.0	.0
Jul	83.6	62.3	73.0	106	1985	1	77.8	1984	47+	1948	8	68.8	1987	4	251	.3	4.6	31.0	.0	.0	.0
Aug	85.5	63.8	74.7	106	1969	22	78.6	1996	49	1948	9	71.0	1975	2	302	.5	7.4	31.0	.0	.0	.0
Sep	84.1	62.2	73.2	109	1988	3	79.4	1984	45+	1971	29	67.9	1986	10	255	1.0	7.7	30.0	.0	.0	.0
Oct	79.6	56.8	68.2	105+	1987	4	72.9	1999	30	1971	30	65.1	1981	30	128	.3	3.6	31.0	.0	@	.0
Nov	73.4	49.6	61.5	97	1966	1	66.2	1995	30	1971	24	57.1	1994	138	32	.0	.6	30.0	.0	@	.0
Dec	68.8	45.3	57.1	91	1979	4	61.0	1977	29+	1978	8	51.0	1971	253	7	.0	@	31.0	.0	.2	.0
Ann	75.8	53.9	64.8	109	Sep 1988	3	79.4	Sep 1984	26	Jan 1949	4	51.0	Dec 1971	1313	1261	2.6	28.4	365.1	.0	.6	.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	2.89	2.05	4.25	1979	31	12.25	1993	.00	1976	6.4	4.6	2.1	.7	.03	.16	.47	.85	1.30	1.86	2.54	3.45	4.74	6.97	9.23
Feb	2.52	1.84	2.36	1995	14	10.95	1998	.02	1974	6.1	4.3	1.9	.7	.08	.18	.44	.76	1.14	1.61	2.20	2.98	4.10	6.06	8.04
Mar	2.98	2.08	2.00	1975	6	8.93	1983	.00+	1997	7.1	5.2	2.3	.9	.00	.15	.56	1.00	1.50	2.08	2.77	3.64	4.88	6.96	9.03
Apr	1.05	.57	1.76	1988	22	6.95	1988	.00+	1993	3.9	2.3	.8	.2	.00	.00	.14	.29	.47	.68	.94	1.28	1.75	2.56	3.37
May	.33	.09	1.61	1977	9	2.75	1977	.00+	1999	2.0	.8	.1	@	.00	.00	.00	.00	.02	.07	.16	.31	.55	1.01	1.50
Jun	.11	.00	.50	1993	5	.80	1972	.00+	2000	.9	.4	@	.0	.00	.00	.00	.00	.00	.00	.00	.04	.16	.37	.59
Jul	.06	.00	.83	1991	30	.93	1991	.00+	2000	.5	.1	.1	.0	.00	.00	.00	.00	.00	.00	.00	.00	.03	.17	.33
Aug	.10	.00	1.65	1977	17	1.85	1977	.00+	1999	.6	.3	@	@	.00	.00	.00	.00	.00	.00	.00	.03	.12	.32	.55
Sep	.29	.02	1.30	1986	25	1.93	1976	.00+	1999	1.5	.6	.2	.1	.00	.00	.00	.00	.00	.00	.08	.24	.48	.93	1.41
Oct	.58	.39	1.18	1979	20	2.28	1987	.00+	1999	2.4	1.3	.4	.1	.00	.00	.00	.05	.19	.34	.51	.73	1.03	1.55	2.04
Nov	1.32	.96	2.39	1985	11	6.79	1985	.00+	1999	3.7	2.4	1.0	.1	.00	.02	.15	.31	.52	.78	1.11	1.56	2.20	3.33	4.49
Dec	1.52	1.08	2.72	1966	5	6.11	1984	.00	1999	5.1	3.3	1.0	.2	.04	.14	.35	.56	.81	1.09	1.42	1.85	2.45	3.46	4.45
Ann	13.75	12.07	4.25	Jan 1979	31	12.25	Jan 1993	.00+	Jul 2000	40.2	25.6	9.9	3.0	5.89	7.13	8.86	10.28	11.61	12.95	14.39	16.05	18.14	21.32	24.21

+ 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															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	#	1976	1	#	1976	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	#	1997	2	#	1997	.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	#	1986	20	#	1986	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#	Jan 1976	1	#	Jan 1976	#+	Apr 1997	2	#+	Apr 1997	.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	3/03	2/12	1/28	1/14	12/30	12/07	0/00	0/00	0/00
32	1/14	12/31	12/12	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	11/30	12/11	12/19	12/28	1/06	1/23	0/00	0/00	0/00
32	12/15	1/09	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	338	317	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
65	249	195	193	127	87	25	4	2	10	30	138	253	1313
60	120	86	86	50	26	4	0	0	0	4	56	127	559
57	67	43	42	22	11	0	0	0	0	1	25	74	285
55	39	22	23	12	5	0	0	0	0	0	13	46	160
50	6	3	4	0	0	0	0	0	0	0	2	9	24
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
32	778	734	844	908	1016	1104	1270	1323	1235	1121	884	777	11994
55	104	112	154	230	308	414	557	610	545	408	207	109	3758
57	70	77	111	180	251	354	495	548	485	347	159	76	3153
60	30	36	62	119	174	267	402	455	395	257	99	36	2332
65	3	5	14	45	80	139	251	302	255	128	32	7	1261
70	0	0	1	11	22	52	121	163	138	45	6	0	559

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	543	535	602	680	777	874	1033	1085	1005	880	650	539	543	1078	1680	2360	3137	4011	5044	6129	7134	8014	8664	9203
45	388	390	447	530	622	724	878	930	855	725	500	384	388	778	1225	1755	2377	3101	3979	4909	5764	6489	6989	7373
50	235	248	293	380	467	574	723	775	705	571	350	233	235	483	776	1156	1623	2197	2920	3695	4400	4971	5321	5554
55	105	115	154	231	312	424	568	620	555	416	205	103	105	220	374	605	917	1341	1909	2529	3084	3500	3705	3808
60	32	37	52	104	165	275	413	465	405	262	83	28	32	69	121	225	390	665	1078	1543	1948	2210	2293	2321
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	307	301	333	394	468	563	702	738	670	556	380	308	307	608	941	1335	1803	2366	3068	3806	4476	5032	5412	5720

(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