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: CULVER CITY, CA **COOP ID: 042214**

Climate Division: CA 6 **NWS Call Sign:** **Elevation: 55 Feet** **Lat: 34˚00N** **Lon: 118˚25W**

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	67.3	46.1	56.7	90	1976	17	60.8	1986	24	1949	4	53.5	1973	258	1	.0	@	31.0	.0	@	.0
Feb	68.6	47.2	57.9	92+	1954	8	61.7	1980	31+	1949	15	54.6	1989	203	4	.0	.1	28.1	.0	.0	.0
Mar	69.3	49.1	59.2	89+	1997	19	63.6	1984	32	1948	24	54.8	1991	192	13	.0	.0	31.0	.0	.0	.0
Apr	72.6	52.0	62.3	105	1989	6	68.0	1992	32	1995	20	57.6	1975	123	41	.1	.5	30.0	.0	@	.0
May	73.5	55.7	64.6	101	1956	16	68.8	1984	32	1935	2	60.7	1971	81	68	@	.3	31.0	.0	.0	.0
Jun	77.1	58.8	68.0	107	1981	16	72.9	1981	43	1963	24	64.2	1975	28	116	.1	.8	30.0	.0	.0	.0
Jul	80.0	61.5	70.8	102	1985	1	74.3	1985	47	1963	1	67.9	1978	8	185	@	.9	31.0	.0	.0	.0
Aug	81.1	62.2	71.7	103	1983	6	76.4	1983	49+	1943	27	67.7	1975	8	213	@	1.8	31.0	.0	.0	.0
Sep	80.2	61.3	70.8	111+	1963	26	78.8	1984	45	1948	26	66.2	1999	17	190	.4	2.5	30.0	.0	.0	.0
Oct	77.0	57.2	67.1	106+	1967	15	71.1	1983	40+	1946	29	63.7	2000	32	97	.1	1.7	31.0	.0	.0	.0
Nov	71.6	50.8	61.2	100	1966	1	67.0	1976	33+	1947	24	57.3	2000	142	27	.0	.4	30.0	.0	.0	.0
Dec	67.7	46.3	57.0	91	1938	9	60.7	1980	30	1951	9	52.6	1971	252	4	.0	.1	31.0	.0	.1	.0
Ann	73.8	54.0	63.9	111+	Sep 1963	26	78.8	Sep 1984	24	Jan 1949	4	52.6	Dec 1971	1344	959	.7	9.1	365.1	.0	.1	.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: 1935-2001

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

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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	3.19	1.62	4.50	1969	20	13.82	1993	.00+	1984
Feb	3.25	2.49	4.04	1993	8	12.45	1998	.00+	1984
Mar	2.66	2.23	4.36	1968	8	12.26	1983	.00+	1997
Apr	.58	.21	1.98	1984	19	2.22	1983	.00+	1997
May	.26	.00	1.47	1977	8	3.27	1998	.00+	2000
Jun	.04	.00	.45	1964	9	.47	1995	.00+	2000
Jul	.02	.00	.19	1992	12	.21	1992	.00+	2000
Aug	.07	.00	1.70	1977	17	1.70	1977	.00+	2000
Sep	.08	.00	3.05	1939	25	1.02	1986	.00+	1998
Oct	.33	.04	1.59	1996	30	1.65+	2000	.00+	1999
Nov	.94	.58	4.10	1967	22	4.01	1985	.00+	2000
Dec	1.90	1.18	2.73	1974	4	5.78	1971	.00+	2000
Ann	13.32	11.41	4.50	Jan 1969	20	13.82	Jan 1993	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.7	4.7	2.4	1.1
Feb	5.3	4.5	2.2	1.2
Mar	5.8	4.1	2.1	.7
Apr	1.7	1.1	.4	.1
May	.7	.4	.2	.1
Jun	.2	.1	.0	.0
Jul	.3	.1	.0	.0
Aug	.2	.1	@	@
Sep	.6	.3	.1	.1
Oct	1.1	.7	.2	.1
Nov	1.9	1.5	.7	.3
Dec	4.0	2.9	1.3	.6
Ann	27.5	20.5	9.6	4.3

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	.00	.32	.83	1.40	2.07	2.88	3.92	5.39	7.84	10.30
Feb	.00	.07	.40	.82	1.34	1.99	2.80	3.87	5.41	8.11	10.84
Mar	.00	.00	.45	.94	1.44	1.98	2.60	3.38	4.44	6.13	7.81
Apr	.00	.00	.00	.03	.14	.28	.46	.70	1.03	1.61	2.19
May	.00	.00	.00	.00	.00	.00	.00	.00	.08	.73	1.60
Jun	**	**	**	**	**	**	**	**	**	**	**
Jul	**	**	**	**	**	**	**	**	**	**	**
Aug	**	**	**	**	**	**	**	**	**	**	**
Sep	.00	.00	.00	.00	.00	.00	.00	.00	.08	.29	.52
Oct	.00	.00	.00	.00	.00	.04	.14	.31	.57	1.06	1.57
Nov	.00	.00	.00	.14	.34	.57	.83	1.17	1.64	2.43	3.21
Dec	.00	.00	.36	.68	1.01	1.38	1.82	2.37	3.12	4.37	5.60
Ann	3.74	5.01	6.92	8.59	10.21	11.92	13.80	16.03	18.91	23.44	27.66

\+ 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: 1935-2001
(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	3/01	2/08	1/22	1/04	12/11	0/00	0/00	0/00	0/00
32	0/00	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	12/01	12/18	12/31	1/15	2/09	0/00	0/00	0/00	0/00
32	0/00	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	>365	313
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	258	203	192	123	81	28	8	8	17	32	142	252	1344
60	122	88	84	46	21	4	0	0	2	3	57	121	548
57	64	44	40	19	8	0	0	0	0	0	25	66	266
55	35	22	21	10	3	0	0	0	0	0	13	38	142
50	4	3	3	0	0	0	0	0	0	0	2	6	18
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	765	725	844	908	1011	1078	1200	1229	1163	1088	875	775	11661
55	88	102	152	228	301	388	487	516	473	375	198	100	3408
57	55	68	109	177	243	328	425	454	413	314	150	66	2802
60	19	29	60	114	164	242	332	361	325	223	92	28	1989
65	1	4	13	41	68	116	185	213	190	97	27	4	959
70	0	0	1	9	16	37	73	95	90	25	4	0	350

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	546	536	598	687	774	822	972	999	940	852	647	522	546	1082	1680	2367	3141	3963	4935	5934	6874	7726	8373	8895
45	391	392	443	537	619	672	817	844	790	697	497	367	391	783	1226	1763	2382	3054	3871	4715	5505	6202	6699	7066
50	238	250	288	387	464	522	662	689	640	542	347	215	238	488	776	1163	1627	2149	2811	3500	4140	4682	5029	5244
55	107	116	144	237	309	372	507	534	490	387	200	83	107	223	367	604	913	1285	1792	2326	2816	3203	3403	3486
60	30	33	43	105	156	229	352	379	340	232	80	21	30	63	106	211	367	596	948	1327	1667	1899	1979	2000
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	295	284	311	389	463	517	660	683	625	534	361	297	295	579	890	1279	1742	2259	2919	3602	4227	4761	5122	5419

(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