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: PLACERVILLE, CA **COOP ID: 046960**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 1,850 Feet** **Lat: 38˚42N** **Lon: 120˚49W**

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	57.7	33.3	45.5	75+	1984	31	50.4	1986	9	1950	3	41.4	1983	605	0	.0	.0	23.9	.0	15.2	.0
Feb	60.8	35.8	48.3	78+	1995	5	54.0	1991	15+	1989	6	43.4	1990	468	0	.0	.0	24.1	.1	9.4	.0
Mar	63.1	38.4	50.8	83	1988	27	55.6	1972	19	1966	3	44.7	1985	443	1	.0	.0	28.7	.0	5.6	.0
Apr	68.9	41.3	55.1	92	1987	28	61.2	1987	24	1955	2	47.4	1983	312	14	.0	.1	29.1	.0	2.6	.0
May	76.8	46.5	61.7	104	1984	29	68.7	1992	29+	1983	6	54.0	1998	173	69	.1	2.2	30.9	.0	.4	.0
Jun	86.2	52.4	69.3	109	1961	22	75.8	1981	31	1952	12	64.4	1980	36	165	.8	8.5	30.0	.0	.0	.0
Jul	93.2	57.4	75.3	110+	1988	19	80.8	1996	38	1955	6	66.0	1983	10	329	3.6	19.8	31.0	.0	.0	.0
Aug	93.0	57.2	75.1	109	1998	5	79.5	1996	37	1948	10	68.7	1976	2	314	4.0	18.9	31.0	.0	.0	.0
Sep	87.5	53.2	70.4	108	1988	6	76.4	1991	33	1948	27	62.8	1986	39	199	1.0	10.9	30.0	.0	.0	.0
Oct	77.1	45.9	61.5	100+	1987	6	68.8	1991	23+	1971	29	55.4	1984	179	70	.1	2.1	30.9	.0	.8	.0
Nov	63.3	37.5	50.4	83+	1997	5	57.8	1995	21+	1985	13	43.8	1994	442	3	.0	.0	28.2	.0	6.8	.0
Dec	57.4	32.9	45.2	76	1958	5	49.3	1977	8	1972	9	40.6	1990	615	0	.0	.0	24.4	.1	15.0	.0
Ann	73.8	44.3	59.1	110+	Jul 1988	19	80.8	Jul 1996	8	Dec 1972	9	40.6	Dec 1990	3324	1164	9.6	62.5	342.2	.2	55.8	.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

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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	7.47	6.05	4.40	1997	2	19.22	1997	.42	1984
Feb	6.62	5.24	6.22	2000	14	18.87	1986	.57	1988
Mar	6.03	5.66	3.65	1983	13	15.93	1991	.28	1994
Apr	2.84	2.33	3.43	1958	3	7.98	1982	.15	1985
May	1.56	1.03	2.80	1996	16	8.22	1998	.00+	1992
Jun	.45	.32	1.49	1995	16	2.22	1995	.00+	1990
Jul	.18	.00	2.78	1974	9	3.62	1974	.00+	2000
Aug	.15	.00	1.17	1976	15	1.57	1976	.00+	2000
Sep	.94	.29	2.62	1989	29	8.09	1989	.00+	1995
Oct	2.12	1.46	4.25	1962	14	6.19	2000	.00+	1995
Nov	4.91	3.37	3.57	1983	12	13.13	1983	.33	1995
Dec	5.48	4.43	4.11	1955	22	19.86	1996	.00	1989
Ann	38.75	35.65	6.22	Feb 2000	14	19.86	Dec 1996	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	8.4	5.0	2.6
Feb	10.2	7.8	4.4	2.3
Mar	11.3	9.2	4.3	1.7
Apr	7.2	4.9	2.0	.6
May	4.1	2.8	1.1	.4
Jun	1.9	1.0	.2	.1
Jul	.5	.2	.1	@
Aug	1.0	.3	.1	@
Sep	2.2	1.3	.6	.4
Oct	4.2	3.2	1.5	.7
Nov	9.0	6.8	3.0	1.8
Dec	8.9	7.0	3.6	1.8
Ann	70.8	52.9	25.9	12.4

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	.68	1.20	2.20	3.24	4.37	5.66	7.19	9.10	11.73	16.13	20.43
Feb	.83	1.36	2.29	3.22	4.19	5.27	6.53	8.09	10.19	13.65	17.00
Mar	.72	1.19	2.04	2.88	3.77	4.77	5.93	7.37	9.32	12.53	15.66
Apr	.31	.52	.91	1.31	1.74	2.21	2.77	3.47	4.42	6.00	7.54
May	.00	.00	.14	.35	.60	.92	1.32	1.85	2.62	3.95	5.31
Jun	.00	.00	.00	.08	.17	.27	.40	.56	.78	1.15	1.53
Jul	.00	.00	.00	.00	.00	.00	.00	.01	.11	.52	1.02
Aug	.00	.00	.00	.00	.00	.00	.00	.06	.19	.49	.84
Sep	.00	.00	.00	.01	.10	.27	.54	.95	1.58	2.79	4.06
Oct	.00	.00	.43	.78	1.15	1.56	2.05	2.66	3.47	4.84	6.19
Nov	.52	.89	1.57	2.25	2.98	3.81	4.78	5.99	7.64	10.37	13.03
Dec	.23	.68	1.48	2.28	3.15	4.13	5.29	6.74	8.73	12.05	15.30
Ann	18.05	21.44	26.10	29.87	33.37	36.89	40.64	44.93	50.31	58.45	65.77

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.2	.0	0	0
Feb	.0	.0	0	0
Mar	.1	.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
Ann	.3	.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	4.0	1971	13	4.0	1971	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	3.0	1975	14	3.0	1975	3	1975	14	#	1975
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	#	1982	23	#	1982	#	1982	23	#	1982
Ann	4.0	Jan 1971	13	4.0	Jan 1971	3	Mar 1975	14	#+	Dec 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.1	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.1	.1	.1	.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	.2	.2	.2	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	@	@	.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

+ 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	5/30	5/20	5/14	5/08	5/02	4/27	4/21	4/14	4/04
32	5/10	4/30	4/22	4/16	4/10	4/04	3/28	3/21	3/10
28	4/13	3/29	3/18	3/09	2/28	2/20	2/10	1/30	1/15
24	2/27	2/13	2/02	1/23	1/13	1/02	12/19	0/00	0/00
20	1/26	1/10	12/25	0/00	0/00	0/00	0/00	0/00	0/00
16	12/27	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	10/11	10/17	10/22	10/26	10/29	11/02	11/06	11/11	11/17
32	10/20	10/27	11/01	11/05	11/09	11/13	11/17	11/22	11/29
28	11/04	11/11	11/16	11/21	11/25	11/29	12/03	12/09	12/16
24	11/22	12/02	12/10	12/17	12/24	1/02	1/14	0/00	0/00
20	12/19	1/04	1/22	0/00	0/00	0/00	0/00	0/00	0/00
16	1/06	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	217	204	195	187	180	172	164	155	142
32	254	240	229	221	212	204	195	185	171
28	325	303	289	277	267	256	245	232	214
24	>365	>365	>365	>365	>365	343	325	308	287
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	605	468	443	312	173	36	10	2	39	179	442	615	3324
60	450	329	299	191	92	9	0	0	12	95	304	460	2241
57	358	251	220	134	56	3	0	0	5	59	230	369	1685
55	301	201	174	102	38	1	0	0	3	41	185	311	1357
50	166	101	86	40	13	0	0	0	0	13	97	176	692
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	418	457	581	692	919	1119	1342	1335	1149	914	551	408	9885
55	5	13	42	104	244	430	629	622	462	242	47	6	2846
57	1	7	26	76	200	372	567	560	404	199	31	2	2445
60	0	2	12	43	143	288	474	467	321	142	15	0	1907
65	0	0	1	14	69	165	329	314	199	70	3	0	1164
70	0	0	0	2	25	76	198	176	106	27	0	0	610

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	159	219	310	426	650	857	1075	1065	893	649	293	160	159	378	688	1114	1764	2621	3696	4761	5654	6303	6596	6756
45	59	111	175	284	496	707	920	910	743	496	167	63	59	170	345	629	1125	1832	2752	3662	4405	4901	5068	5131
50	13	41	80	162	348	557	765	755	593	353	76	9	13	54	134	296	644	1201	1966	2721	3314	3667	3743	3752
55	0	5	24	75	213	408	610	600	443	219	22	0	0	5	29	104	317	725	1335	1935	2378	2597	2619	2619
60	0	0	0	30	114	269	456	445	302	117	3	0	0	0	0	30	144	413	869	1314	1616	1733	1736	1736
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	100	133	177	266	404	535	672	664	561	415	185	103	100	233	410	676	1080	1615	2287	2951	3512	3927	4112	4215

(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