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: CECILVILLE, CA **COOP ID: 041606**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 2,330 Feet** **Lat: 41˚08N** **Lon: 123˚08W**

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	46.8	28.9	37.9	67	1975	24	42.6	1986	0	1962	22	32.8	1972	843	0	.0	.0	10.4	.2	23.2	.0
Feb	52.0	30.4	41.2	77	1992	26	47.0	1995	6	1989	5	36.6	1990	667	0	.0	.0	16.8	.3	18.5	.0
Mar	57.0	32.2	44.6	83+	1966	31	49.9	1992	15+	1971	1	38.1	1975	633	0	.0	.0	24.6	.0	16.2	.0
Apr	64.1	35.2	49.7	92	1987	27	57.3	1990	17+	1982	1	42.2	1975	471	11	.0	.2	27.5	.0	10.7	.0
May	73.2	40.3	56.8	99	1986	30	65.5	1992	23	1970	11	50.1	1977	275	19	.0	2.0	30.6	.0	3.1	.0
Jun	81.8	45.7	63.8	106	1987	26	70.0	1987	28+	1970	15	58.2+	1980	119	82	1.0	7.1	30.0	.0	.3	.0
Jul	90.2	50.2	70.2	110+	1991	4	76.9	1994	30	1963	4	62.4	1983	46	207	3.9	18.3	31.0	.0	.0	.0
Aug	90.7	49.1	69.9	110	1993	2	74.9	1992	34	1968	22	64.3	1976	33	185	3.7	17.6	31.0	.0	.0	.0
Sep	83.0	44.8	63.9	106+	1988	3	71.5	1991	27+	1968	21	58.0	1971	125	91	1.0	8.5	29.9	.0	.5	.0
Oct	70.7	37.6	54.2	98	1991	4	61.2	1987	15	1971	29	47.7	1971	355	20	.0	1.0	30.3	.0	5.3	.0
Nov	53.0	32.4	42.7	80	1959	1	48.9	1976	12	1955	15	37.2	1994	669	0	.0	.0	19.4	.0	17.0	.0
Dec	44.4	28.8	36.6	72	1980	15	41.8	1995	-4	1972	8	30.7	1971	880	0	.0	.0	7.6	.7	23.6	.1
Ann	67.2	38.0	52.6	110+	Aug 1993	2	76.9	Jul 1994	-4	Dec 1972	8	30.7	Dec 1971	5116	615	9.6	54.7	289.1	1.2	118.4	.1

\+ 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: 1954-2001

(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	6.45	6.28	4.21	1966	4	15.99	1995	.33	1984
Feb	5.24	4.83	2.80	1958	24	14.30	1986	.08	1988
Mar	4.78	3.28	3.10	1998	22	12.70	1995	.96	1988
Apr	2.32	2.26	2.14	1963	6	6.52	1995	.54	1985
May	1.65	1.27	1.73	1990	22	5.72	1990	.00	1999
Jun	.79	.54	2.30	1996	26	2.36	1988	.00	1999
Jul	.45	.21	1.95	1990	19	2.20	1990	.00+	1999
Aug	.56	.19	1.81	1961	12	3.40	1983	.00+	1998
Sep	.86	.59	1.51	1957	27	3.81	1986	.00+	1996
Oct	2.37	1.82	9.02	1963	11	7.41	1979	.10	1978
Nov	5.22	4.26	3.50	1996	18	14.14	1998	.69	1995
Dec	5.91	3.86	4.35	1962	2	20.77	1996	.24	1976
Ann	36.60	33.76	9.02	Oct 1963	11	20.77	Dec 1996	.00+	Jul 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.1	9.4	4.0	2.0
Feb	12.4	8.8	3.9	1.6
Mar	14.0	9.2	3.0	1.1
Apr	10.2	6.0	1.3	.3
May	7.3	4.5	.8	.1
Jun	4.1	2.1	.5	.1
Jul	2.2	1.1	.2	@
Aug	2.4	1.5	.2	.1
Sep	3.5	2.2	.6	.1
Oct	6.4	4.3	1.6	.6
Nov	12.1	8.4	3.7	1.2
Dec	12.9	9.2	4.0	1.4
Ann	100.6	66.7	23.8	8.6

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	1.15	1.72	2.67	3.55	4.44	5.42	6.52	7.87	9.65	12.53	15.27
Feb	.85	1.31	2.07	2.79	3.53	4.34	5.27	6.39	7.90	10.35	12.68
Mar	.90	1.33	2.03	2.68	3.34	4.05	4.85	5.83	7.12	9.20	11.18
Apr	.52	.74	1.08	1.38	1.69	2.01	2.37	2.81	3.38	4.29	5.15
May	.12	.29	.55	.79	1.04	1.32	1.64	2.03	2.56	3.43	4.26
Jun	.03	.10	.21	.33	.45	.60	.76	.98	1.26	1.75	2.22
Jul	.00	.00	.00	.08	.17	.27	.40	.56	.78	1.18	1.56
Aug	.00	.00	.00	.00	.06	.19	.37	.62	.98	1.63	2.29
Sep	.00	.00	.03	.13	.26	.44	.68	.99	1.47	2.31	3.18
Oct	.19	.34	.65	.98	1.34	1.76	2.25	2.88	3.75	5.20	6.64
Nov	.76	1.20	1.95	2.68	3.43	4.26	5.21	6.38	7.95	10.50	12.96
Dec	.58	1.01	1.82	2.64	3.53	4.54	5.73	7.21	9.25	12.63	15.93
Ann	20.84	23.64	27.36	30.27	32.93	35.55	38.30	41.40	45.23	50.92	55.95

\+ 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: 1954-2001
(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	4.2	.6	#	0
Feb	4.5	.0	#	0
Mar	1.6	.0	#	0
Apr	.4	.0	#	0
May	.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
Nov	.6	.0	#	0
Dec	3.4	.0	#	0
Ann	14.7	.6	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	9.5	1977	3	16.9	1971	9+	1972	27	2	1993
Feb	12.0	1993	21	31.7	1990	17	1993	21	3	1990
Mar	6.0	1999	31	7.7	1971	14	1975	22	2	1975
Apr	2.5	1978	4	2.9	1971	1+	1999	5	#+	1999
May	.2	1974	18	.2	1974	1	1986	6	#+	1986
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	#	1971	30	#	1971	0	0	0	0	0
Nov	4.0	1985	10	5.0	1985	4	1985	10	#+	1998
Dec	8.0	1972	6	17.7	1988	9	1983	22	3	1971
Ann	12.0	Feb 1993	21	31.7	Feb 1990	17	Feb 1993	21	3+	Feb 1990

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.6	1.2	.4	.2	.0
Feb	1.4	1.1	.6	.3	.1
Mar	1.0	.6	.2	.1	.0
Apr	.4	.2	.0	.0	.0
May	@	.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	.3	.3	.1	.0	.0
Dec	1.5	1.3	.5	.3	.0
Ann	6.2	4.7	1.8	.9	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.8	1.8	.6	.0
Feb	1.7	1.2	.8	@
Mar	.6	.2	.0	.0
Apr	@	.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	.2	@	.0	.0
Dec	2.6	1.9	1.3	.0
Ann	7.9	5.1	2.7	@

+ 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	6/30	6/21	6/15	6/10	6/05	6/01	5/27	5/20	5/12
32	6/08	5/31	5/26	5/21	5/16	5/12	5/07	5/02	4/24
28	5/20	5/10	5/03	4/27	4/21	4/16	4/10	4/03	3/24
24	4/22	4/07	3/27	3/17	3/08	2/28	2/18	2/07	1/23
20	3/21	3/03	2/18	2/07	1/27	1/17	1/04	12/20	11/21
16	2/12	1/31	1/22	1/14	1/04	12/23	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	9/07	9/13	9/17	9/21	9/25	9/28	10/02	10/06	10/12
32	9/23	9/30	10/05	10/09	10/13	10/17	10/21	10/26	11/02
28	10/12	10/18	10/22	10/26	10/29	11/02	11/05	11/10	11/16
24	10/27	11/05	11/12	11/17	11/23	11/28	12/04	12/10	12/19
20	11/12	11/22	11/30	12/06	12/12	12/19	12/26	1/05	0/00
16	11/26	12/11	12/22	1/02	1/14	1/31	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	141	130	123	116	110	104	98	90	80
32	185	172	164	156	149	142	134	125	113
28	225	213	204	197	190	183	176	167	156
24	319	298	283	270	258	246	234	219	198
20	>365	>365	357	332	314	299	284	268	246
16	>365	>365	>365	>365	>365	>365	346	322	298

***** 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	843	667	633	471	275	119	46	33	125	355	669	880	5116
60	688	527	480	338	161	51	15	8	58	233	520	725	3804
57	595	443	392	268	110	26	7	2	33	172	431	632	3111
55	533	387	336	226	81	15	3	0	21	136	373	570	2681
50	379	255	208	141	31	3	0	0	6	67	238	416	1744
32	22	7	7	6	0	0	0	0	0	0	5	38	85

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	203	265	397	536	766	953	1184	1175	956	688	326	180	7629
55	0	0	13	66	134	278	474	462	288	110	4	0	1829
57	0	0	7	47	101	228	416	402	239	84	2	0	1526
60	0	0	3	28	60	164	331	316	175	52	0	0	1129
65	0	0	0	11	19	82	207	185	91	20	0	0	615
70	0	0	0	1	4	31	115	92	36	6	0	0	285

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	37	88	179	304	530	725	946	921	719	438	115	33	37	125	304	608	1138	1863	2809	3730	4449	4887	5002	5035
45	1	28	77	178	376	575	791	766	569	294	41	0	1	29	106	284	660	1235	2026	2792	3361	3655	3696	3696
50	0	1	17	89	239	425	636	611	421	167	8	0	0	1	18	107	346	771	1407	2018	2439	2606	2614	2614
55	0	0	0	34	126	286	481	457	277	73	0	0	0	0	0	34	160	446	927	1384	1661	1734	1734	1734
60	0	0	0	6	53	161	331	306	157	21	0	0	0	0	0	6	59	220	551	857	1014	1035	1035	1035
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	28	72	135	224	365	462	573	554	468	320	79	21	28	100	235	459	824	1286	1859	2413	2881	3201	3280	3301

(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