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: NEVADA CITY, CA **COOP ID: 046136**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 2,781 Feet** **Lat: 39˚15N** **Lon: 121˚00W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	50.1	32.1	41.1	78	1944	19	48.0	1986	-1	1937	21	35.3	1973	741	0	.0	.0	16.4	.2	16.7	.0
Feb	52.7	33.3	43.0	79	1943	15	51.3	1991	5	1937	9	38.4	1974	616	0	.0	.0	17.6	.3	13.3	.0
Mar	55.6	35.3	45.5	81+	1947	21	51.7	1986	13+	1939	1	39.9	1973	606	0	.0	.0	22.9	.0	10.6	.0
Apr	61.9	38.4	50.2	90+	1946	25	57.7	1987	20+	1937	19	40.9	1975	454	8	.0	.0	26.8	.0	6.3	.0
May	69.6	44.4	57.0	98	1951	27	65.7	1992	21	1936	1	48.9	1998	276	28	.0	.4	30.2	.0	.7	.0
Jun	78.5	50.9	64.7	104	1936	22	69.4+	2000	28	1939	17	59.0	1980	94	86	.0	4.2	29.9	.0	.1	.0
Jul	85.6	56.0	70.8	106+	1972	15	76.5	1988	37+	1976	1	65.1	1983	22	201	.3	11.2	31.0	.0	.0	.0
Aug	85.3	55.2	70.3	111	1933	14	74.8	1992	34	1938	13	63.6	1976	31	193	.4	10.5	31.0	.0	.0	.0
Sep	79.7	50.8	65.3	105	1945	13	72.0	1991	27	1950	30	58.6	1972	110	117	.1	3.6	29.9	.0	.1	.0
Oct	69.9	44.2	57.1	98	1933	3	65.1	1988	20+	1971	30	49.0	1975	300	53	.0	.7	30.3	.0	1.9	.0
Nov	55.8	36.4	46.1	90+	1936	21	54.5	1995	13	1931	23	39.5	1994	570	3	.0	.0	22.5	.0	9.4	.0
Dec	49.7	32.3	41.0	77	1935	1	46.9	1989	-1	1972	9	32.8	1972	745	0	.0	.0	16.6	.3	15.8	.1
Ann	66.2	42.4	54.3	111	Aug 1933	14	76.5	Jul 1988	-1+	Dec 1972	9	32.8	Dec 1972	4565	689	.8	30.6	305.1	.8	74.9	.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: 1931-2001

(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	11.16	11.15	7.75	1997	2	30.25	1995	.40	1984
Feb	10.63	8.43	7.49	1986	17	32.86	1986	.59	1988
Mar	9.46	7.35	5.58	1986	8	26.12	1995	1.64	1972
Apr	4.12	3.46	3.87	1958	3	13.08	1982	.38	1977
May	2.25	1.50	3.50	1996	16	8.62	1996	.00+	1992
Jun	.69	.39	1.73	1991	29	2.85	1995	.00+	1986
Jul	.19	.00	.74	1980	2	3.19	1974	.00+	2000
Aug	.28	.05	1.69	1976	15	2.35	1976	.00+	2000
Sep	1.20	.83	2.79	1959	19	6.37	1986	.00+	1999
Oct	2.89	2.10	7.07	1962	12	7.52	1982	.00+	1995
Nov	7.74	5.58	7.20	1988	23	26.15	1973	.63	1995
Dec	8.69	6.84	6.07	1964	22	33.04	1996	.00	1989
Ann	59.30	53.04	7.75	Jan 1997	2	33.04	Dec 1996	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.7	9.8	6.6	4.2
Feb	12.3	9.5	5.9	3.9
Mar	12.9	10.3	5.9	3.3
Apr	8.8	6.0	2.9	1.1
May	5.6	3.8	1.7	.5
Jun	2.7	1.6	.4	.1
Jul	.7	.2	.2	.1
Aug	1.4	.7	.2	@
Sep	2.9	1.9	1.0	.4
Oct	5.2	3.6	1.8	1.1
Nov	10.3	8.2	5.0	2.6
Dec	10.7	8.5	5.4	3.0
Ann	86.2	64.1	37.0	20.3

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	.99	1.76	3.25	4.80	6.49	8.42	10.71	13.59	17.55	24.17	30.67
Feb	1.11	1.90	3.36	4.84	6.44	8.23	10.34	12.97	16.56	22.51	28.32
Mar	1.49	2.30	3.67	4.98	6.33	7.80	9.49	11.56	14.32	18.81	23.11
Apr	.59	.93	1.52	2.09	2.69	3.35	4.10	5.03	6.29	8.33	10.30
May	.00	.09	.38	.70	1.07	1.51	2.05	2.73	3.70	5.36	7.01
Jun	.00	.00	.06	.15	.26	.40	.58	.82	1.16	1.75	2.36
Jul	.00	.00	.00	.00	.00	.00	.00	.05	.20	.60	.98
Aug	.00	.00	.00	.00	.00	.03	.12	.26	.48	.89	1.31
Sep	.00	.00	.01	.11	.27	.51	.85	1.32	2.04	3.35	4.74
Oct	.00	.00	.65	1.14	1.64	2.20	2.84	3.64	4.70	6.47	8.20
Nov	.79	1.36	2.42	3.50	4.66	5.98	7.52	9.45	12.08	16.44	20.71
Dec	.64	1.55	2.94	4.22	5.55	7.00	8.68	10.73	13.49	17.99	22.33
Ann	29.71	34.70	41.48	46.89	51.89	56.87	62.17	68.18	75.70	86.98	97.08

\+ 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: 1931-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	2.3	.1	1	#	16.0	1974	6	16.0	1974	16	1982	21	10	1972	1.3	1.1	.5	.2	@	1.3	.1	.0	.0
Feb	4.5	1.0	1	#	18.0	1990	17	42.3	1990	34	1990	18	9	1990	1.6	1.0	.3	.3	.1	3.0	1.6	1.0	.6
Mar	3.9	1.0	#	#	8.0	1991	26	28.2	1991	13	1995	24	3	1991	1.5	1.2	.5	.2	.0	1.6	.9	.4	.2
Apr	.9	.0	#	0	7.0	1998	13	8.3	1998	17	1982	1	1	1998	.5	.3	.1	@	.0	.4	.2	.1	.0
May	.0	.0	0	0	1.0	1977	6	1.0	1977	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	#	1971	17	#	1971	#	1979	21	#	1979	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.0	.0	#	0	10.0	1985	12	14.0	1985	8	1985	12	1	1985	.3	.2	.1	.1	@	.5	.2	.1	.0
Dec	5.1	.3	#	#	25.1	1988	21	47.6	1988	15	1988	31	3	1988	1.6	1.0	.6	.3	.1	2.8	1.2	.9	.1
Ann	17.7	2.4	N/A	N/A	25.1	Dec 1988	21	47.6	Dec 1988	34	Feb 1990	18	10	Jan 1972	6.8	4.8	2.1	1.1	.2	9.6	4.2	2.5	.9

+ 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	6/12	6/02	5/26	5/19	5/14	5/08	5/02	4/25	4/15
32	5/27	5/16	5/08	5/01	4/24	4/18	4/11	4/02	3/22
28	4/26	4/13	4/04	3/26	3/19	3/11	3/03	2/22	2/08
24	3/17	3/01	2/17	2/06	1/27	1/17	1/04	12/16	0/00
20	2/17	2/01	1/18	1/04	12/10	0/00	0/00	0/00	0/00
16	1/22	1/03	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	9/25	10/04	10/10	10/16	10/21	10/26	10/31	11/07	11/15
32	10/08	10/17	10/23	10/29	11/03	11/08	11/13	11/20	11/29
28	10/25	11/05	11/12	11/19	11/25	12/01	12/08	12/15	12/26
24	11/07	11/23	12/04	12/15	12/25	1/05	1/18	2/13	0/00
20	11/29	12/14	12/27	1/11	0/00	0/00	0/00	0/00	0/00
16	12/24	1/15	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	206	190	178	169	159	150	141	129	113
32	239	223	211	201	192	183	173	161	145
28	309	289	274	262	250	239	226	212	192
24	>365	>365	>365	>365	334	312	294	275	251
20	>365	>365	>365	>365	>365	>365	>365	362	306
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	741	616	606	454	276	94	22	31	110	300	570	745	4565
60	586	476	457	320	167	36	5	8	49	199	428	590	3321
57	493	395	372	249	117	17	0	2	27	149	348	498	2667
55	432	343	317	208	88	9	0	0	18	119	297	439	2270
50	290	219	199	123	37	1	0	0	5	62	188	297	1421
32	13	9	9	3	0	0	0	0	0	0	9	17	60

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	295	317	426	547	775	982	1202	1186	997	776	431	296	8230
55	1	7	21	62	150	301	489	473	325	183	30	4	2046
57	0	3	14	44	117	249	427	413	275	150	20	1	1713
60	0	0	6	25	74	177	339	326	207	107	10	0	1271
65	0	0	0	8	28	86	201	193	117	53	3	0	689
70	0	0	0	0	9	30	100	98	52	23	0	0	312

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	110	136	210	329	550	770	979	958	774	544	214	106	110	246	456	785	1335	2105	3084	4042	4816	5360	5574	5680
45	35	59	99	203	400	621	824	803	624	398	108	35	35	94	193	396	796	1417	2241	3044	3668	4066	4174	4209
50	1	21	36	105	264	472	669	648	477	260	46	1	1	22	58	163	427	899	1568	2216	2693	2953	2999	3000
55	0	1	4	41	147	329	514	493	334	152	13	0	0	1	5	46	193	522	1036	1529	1863	2015	2028	2028
60	0	0	0	10	74	199	359	342	205	68	0	0	0	0	0	10	84	283	642	984	1189	1257	1257	1257
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	60	84	123	205	340	482	632	620	492	335	119	50	60	144	267	472	812	1294	1926	2546	3038	3373	3492	3542

(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