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: GLENNVILLE, CA **COOP ID: 043463**

Climate Division: CA 5 **NWS Call Sign:** **Elevation: 3,140 Feet** **Lat: 35˚44N** **Lon: 118˚42W**

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	55.7	27.9	41.8	80	1971	19	48.2	1986	6	1969	30	37.4	1973	720	0	.0	.0	24.3	.0	22.5	.0
Feb	57.4	30.4	43.9	81	1986	28	49.3	1995	1	1989	6	39.6	1990	591	0	.0	.0	22.9	.2	17.0	.0
Mar	59.1	32.5	45.8	83	1972	9	51.0	1978	9	1953	2	39.3	1973	580	0	.0	.0	27.4	.0	14.0	.0
Apr	65.1	34.3	49.7	89	1985	14	55.6	1989	19	1999	1	42.8	1975	459	0	.0	.0	28.7	.0	8.6	.0
May	73.3	38.9	56.1	99+	1984	29	61.9	1992	22+	1965	6	49.8	1977	289	13	.0	1.1	31.0	.0	2.5	.0
Jun	82.7	44.0	63.4	103+	1972	30	67.7	2000	28+	1954	10	58.6	1980	99	50	.1	7.4	30.0	.0	.5	.0
Jul	88.8	49.5	69.2	107	1964	11	72.8	1996	36	1954	26	64.7	1987	20	148	.6	16.2	31.0	.0	.0	.0
Aug	87.9	49.0	68.5	103	1952	8	72.0	1998	31	1954	26	63.2	1976	28	136	.6	14.7	31.0	.0	.0	.0
Sep	82.3	45.4	63.9	104	1955	3	68.0	1991	29+	1978	19	57.2	1986	103	69	.1	7.0	30.0	.0	.3	.0
Oct	72.7	38.0	55.4	97+	1980	3	60.0	1988	15+	1971	30	49.8	1972	311	11	.0	.8	30.8	.0	4.5	.0
Nov	61.2	30.9	46.1	89	1967	2	52.0	1995	10	1985	13	40.5	1994	568	0	.0	.0	26.8	.0	17.1	.0
Dec	56.0	26.9	41.5	82+	1958	3	46.3	1980	3	1990	22	35.6	1971	730	0	.0	.0	24.2	.1	24.3	.0
Ann	70.2	37.3	53.8	107	Jul 1964	11	72.8	Jul 1996	1	Feb 1989	6	35.6	Dec 1971	4498	427	1.4	47.2	338.1	.3	111.3	.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: 1951-2001

(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	3.88	3.61	3.04	1970	16	11.12	1980	.04+	1984
Feb	3.54	2.87	3.35	1996	20	12.28	1998	.12	1988
Mar	3.72	3.56	1.92	1998	26	9.89	1991	.00	1972
Apr	1.62	1.55	2.90	1974	2	3.88	1978	.00	1997
May	.73	.36	1.80	1957	19	4.93	1998	.00+	1997
Jun	.14	.00	.81	1961	1	1.50	1998	.00+	1997
Jul	.05	.00	.41	1992	13	.54	1992	.00+	2000
Aug	.16	.00	1.27	1983	19	1.91	1983	.00+	1999
Sep	.53	.10	5.25	1976	30	6.39	1976	.00+	1996
Oct	.92	.60	1.30+	1984	17	3.22	1974	.00+	1999
Nov	2.13	1.37	2.65	1970	26	7.36	1983	.00	1995
Dec	2.51	2.27	4.38	1966	6	7.01	1996	.00	1989
Ann	19.93	17.61	5.25	Sep 1976	30	12.28	Feb 1998	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.9	6.2	2.9	1.2
Feb	8.6	5.9	2.7	.9
Mar	9.7	6.8	3.0	.8
Apr	5.6	3.4	1.0	.3
May	3.2	1.6	.5	.1
Jun	.9	.5	.1	.0
Jul	.5	.2	.0	.0
Aug	.8	.3	.1	@
Sep	1.6	.9	.3	.1
Oct	3.2	1.9	.7	.2
Nov	6.1	3.8	1.6	.6
Dec	7.0	4.6	1.9	.7
Ann	56.1	36.1	14.8	4.9

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	.19	.39	.85	1.36	1.96	2.67	3.54	4.67	6.26	8.99	11.71
Feb	.35	.61	1.09	1.58	2.11	2.72	3.43	4.32	5.54	7.56	9.54
Mar	.23	.60	1.18	1.73	2.30	2.94	3.68	4.60	5.83	7.86	9.83
Apr	.05	.17	.39	.63	.89	1.18	1.53	1.98	2.60	3.63	4.65
May	.00	.00	.02	.08	.19	.33	.53	.81	1.24	2.01	2.83
Jun	.00	.00	.00	.00	.00	.00	.00	.05	.19	.48	.81
Jul	.00	.00	.00	.00	.00	.00	.00	.00	.06	.18	.28
Aug	.00	.00	.00	.00	.00	.00	.00	.00	.10	.48	.87
Sep	.00	.00	.00	.00	.03	.11	.24	.47	.85	1.55	2.39
Oct	.00	.00	.00	.31	.51	.71	.94	1.20	1.56	2.14	2.68
Nov	.05	.19	.47	.77	1.11	1.51	1.99	2.60	3.45	4.90	6.34
Dec	.13	.36	.75	1.11	1.51	1.94	2.45	3.09	3.95	5.37	6.76
Ann	9.65	11.36	13.70	15.58	17.31	19.05	20.91	23.02	25.66	29.64	33.21

\+ 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: 1951-2001
(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	3.0	.1	#	0
Feb	1.4	.0	#	0
Mar	2.9	.0	#	0
Apr	1.0	.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	0
Nov	1.0	.0	#	0
Dec	.8	.0	#	0
Ann	10.1	.1	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	7.5	1999	25	19.0	1982	4	1988	18	#+	1997
Feb	4.5	1985	2	9.5	1990	5	1996	26	#+	1996
Mar	7.0	1976	3	14.0	1973	3	2000	6	#+	2000
Apr	5.0	1982	1	9.0	1982	4	1983	12	#+	1983
May	.3	1974	19	.3	1974	1	1988	6	#	1988
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	8.5	1985	11	15.5	1985	11	1985	12	2	1985
Dec	4.0	1972	7	8.0	1972	3	1978	19	#+	1998
Ann	8.5	Nov 1985	11	19.0	Jan 1982	11	Nov 1985	12	2	Nov 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.0	.9	.4	.2	.0
Feb	.6	.4	.2	.0	.0
Mar	1.1	.8	.4	.1	.0
Apr	.5	.4	.1	@	.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	.2	.2	.1	.1	.0
Dec	.6	.6	.1	.0	.0
Ann	4.0	3.3	1.3	.4	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.1	.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	.2	.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	6/21	6/15	6/11	6/08	6/05	6/01	5/29	5/25	5/20
32	6/15	6/07	6/01	5/27	5/22	5/18	5/13	5/07	4/29
28	5/14	5/03	4/26	4/19	4/13	4/07	3/31	3/24	3/13
24	4/21	4/08	3/29	3/20	3/13	3/05	2/24	2/15	2/01
20	3/23	3/04	2/19	2/07	1/27	1/15	12/31	12/10	0/00
16	2/10	1/25	1/13	12/31	12/17	11/23	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	9/14	9/21	9/25	9/30	10/04	10/08	10/12	10/17	10/24
32	9/28	10/05	10/10	10/14	10/18	10/22	10/27	11/01	11/08
28	10/19	10/24	10/28	11/01	11/04	11/07	11/10	11/14	11/19
24	10/31	11/06	11/11	11/15	11/19	11/23	11/27	12/01	12/08
20	11/13	11/23	11/30	12/06	12/12	12/19	12/27	1/12	0/00
16	11/25	12/07	12/16	12/26	1/07	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	148	139	132	126	120	115	109	102	92
32	182	170	162	155	148	142	134	126	115
28	238	226	218	211	204	197	190	182	170
24	297	281	270	260	250	241	231	220	204
20	>365	>365	>365	>365	315	296	283	269	253
16	>365	>365	>365	>365	>365	>365	>365	333	303

***** 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	720	591	580	459	289	99	20	28	103	311	568	730	4498
60	565	451	442	318	168	33	2	4	38	186	420	575	3202
57	472	367	354	238	113	13	0	1	18	127	334	482	2519
55	410	312	297	191	82	6	0	0	10	94	280	421	2103
50	266	184	172	99	30	1	0	0	1	36	160	279	1228
32	8	0	0	0	0	0	0	0	0	0	1	11	20

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	311	333	427	531	747	941	1151	1131	956	723	423	304	7978
55	0	1	11	32	116	257	438	418	275	104	11	1	1664
57	0	0	6	19	85	204	376	356	223	75	6	0	1350
60	0	0	1	9	47	134	285	267	154	42	1	0	940
65	0	0	0	0	13	50	148	136	69	11	0	0	427
70	0	0	0	0	2	10	56	50	20	2	0	0	140

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	138	171	224	328	534	743	948	924	754	512	227	130	138	309	533	861	1395	2138	3086	4010	4764	5276	5503	5633
45	53	78	106	195	380	593	793	769	604	361	113	46	53	131	237	432	812	1405	2198	2967	3571	3932	4045	4091
50	7	27	34	89	241	443	638	614	454	219	43	1	7	34	68	157	398	841	1479	2093	2547	2766	2809	2810
55	0	0	0	33	128	295	483	459	310	109	9	0	0	0	0	33	161	456	939	1398	1708	1817	1826	1826
60	0	0	0	0	47	168	331	305	175	38	0	0	0	0	0	0	47	215	546	851	1026	1064	1064	1064
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	132	140	168	244	374	487	593	581	491	371	193	139	132	272	440	684	1058	1545	2138	2719	3210	3581	3774	3913

(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