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: CANBY 3 SW, CA **COOP ID: 041476**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 4,310 Feet** **Lat: 41˚25N** **Lon: 120˚54W**

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	40.7	20.2	30.5	64	1976	17	38.0	1986	-22	1977	9	14.6	1977	1071	0	.0	.0	5.6	3.3	28.7	2.2
Feb	45.9	22.4	34.2	73	1986	28	41.7	1991	-32+	1989	5	23.5	1989	864	0	.0	.0	10.4	1.3	25.4	1.2
Mar	51.1	27.0	39.1	74+	2001	24	44.5	1986	-6	1976	5	33.3	1977	805	0	.0	.0	18.9	.1	25.7	.1
Apr	57.8	30.4	44.1	85+	1987	28	50.1	1990	12	1988	8	37.1	1975	628	0	.0	.0	24.7	.0	21.7	.0
May	67.1	36.1	51.6	92+	1992	25	58.8	1992	20+	1999	16	45.2	1977	417	1	.0	.3	29.9	.0	11.2	.0
Jun	76.4	42.4	59.4	100	1985	19	63.8	1987	23	1979	12	55.0	1980	193	24	@	2.7	30.0	.0	2.2	.0
Jul	85.6	46.6	66.1	102+	1988	21	69.7+	1996	30	1986	5	60.9	1993	63	96	.2	12.3	31.0	.0	.1	.0
Aug	85.1	44.4	64.8	103	1981	9	68.2	1971	29	1999	31	58.9	1976	76	68	.6	11.6	31.0	.0	.4	.0
Sep	77.2	37.1	57.2	99	1998	4	61.2	1998	17	1984	25	52.0	1985	245	10	.0	2.9	29.9	.0	6.7	.0
Oct	66.2	29.2	47.7	91	1996	9	52.6	1987	10	1996	21	43.5	1971	537	0	.0	.2	28.9	.0	23.0	.0
Nov	49.4	23.1	36.3	79	1976	5	43.1	1995	-20	1985	12	27.8	1994	861	0	.0	.0	15.1	.7	26.9	.4
Dec	41.5	18.7	30.1	64	1981	9	36.4	1995	-25	1990	22	22.1+	1990	1082	0	.0	.0	5.3	3.8	28.7	2.2
Ann	62.0	31.5	46.8	103	Aug 1981	9	69.7+	Jul 1996	-32+	Feb 1989	5	14.6	Jan 1977	6842	199	.8	30.0	260.7	9.2	200.7	6.1

\+ 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: 1948-2001

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

Issue Date: February 2004

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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	1.85	1.63	1.52	1997	2	5.82	1997	.20	1984
Feb	1.95	1.75	2.05	1986	19	7.01	1986	.36	1991
Mar	2.19	1.81	2.19	1995	9	7.26	1995	.62	1977
Apr	1.46	1.30	1.20	1967	21	4.49	1995	.03	1977
May	1.48	1.21	1.13	1959	26	5.66	1998	.17	1992
Jun	.84	.58	1.25	1970	28	3.38	1995	.00+	1974
Jul	.26	.18	.70	1979	22	1.14	1987	.00+	1991
Aug	.40	.16	.89	1965	11	1.73	1976	.00+	1998
Sep	.77	.57	1.68	1985	8	3.13	1985	.00+	1999
Oct	1.08	.85	2.78	1962	10	3.89	1979	.00+	1988
Nov	2.11	1.51	1.98	1998	30	7.78	1998	.36	1974
Dec	2.06	1.58	3.01	1995	11	7.78	1996	.03	1976
Ann	16.45	14.77	3.01	Dec 1995	11	7.78+	Nov 1998	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	5.1	1.0	.2
Feb	10.8	4.6	.8	.1
Mar	11.3	5.4	.7	.2
Apr	8.0	3.8	.3	.0
May	6.8	3.5	.4	.1
Jun	5.2	2.8	.4	@
Jul	1.9	.8	.1	.0
Aug	3.0	1.3	.1	.0
Sep	4.3	2.0	.4	.1
Oct	5.6	2.5	.5	.2
Nov	9.6	4.5	.7	.1
Dec	11.4	4.8	.7	.2
Ann	89.0	41.1	6.1	1.2

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	.32	.48	.75	1.01	1.27	1.55	1.87	2.26	2.78	3.62	4.42
Feb	.38	.55	.84	1.11	1.37	1.66	1.99	2.38	2.90	3.74	4.53
Mar	.60	.81	1.13	1.40	1.67	1.96	2.27	2.64	3.12	3.88	4.58
Apr	.17	.28	.49	.69	.91	1.15	1.44	1.79	2.27	3.05	3.82
May	.20	.32	.54	.74	.96	1.19	1.47	1.81	2.26	3.00	3.72
Jun	.00	.06	.19	.32	.46	.62	.81	1.04	1.37	1.91	2.45
Jul	.00	.00	.02	.06	.11	.16	.23	.32	.44	.66	.87
Aug	.00	.00	.01	.06	.12	.20	.31	.46	.68	1.06	1.45
Sep	.00	.00	.06	.17	.30	.46	.66	.92	1.30	1.94	2.60
Oct	.00	.09	.27	.44	.62	.82	1.05	1.34	1.74	2.39	3.04
Nov	.25	.42	.71	1.01	1.32	1.67	2.07	2.57	3.25	4.38	5.46
Dec	.16	.30	.57	.85	1.17	1.53	1.96	2.50	3.25	4.51	5.75
Ann	8.86	10.17	11.94	13.34	14.62	15.89	17.23	18.75	20.63	23.43	25.93

\+ 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	4.1	-99.9	1	0
Feb	1.2	-99.9	1	0
Mar	2.1	-99.9	1	0
Apr	.8	-99.9	1	0
May	#	.0	0	0
Jun	#	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.9	.0	#	0
Dec	1.0	-99.9	#	0
Ann	10.1	-9.9	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	8.1	1998	4	8.1	1998	6	1988	8	6	1988
Feb	3.5	2000	23	3.5	2000	18	1975	4	11	1975
Mar	4.5	1999	9	6.3	1999	7	1976	1	6	1976
Apr	4.0	1998	13	4.0	1998	11	1975	4	11	1975
May	#	1980	23	#+	1980	0	0	0	0	0
Jun	#	1980	3	#	1980	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	4.5	1998	11	4.5	1998	#	1998	5	#	1998
Dec	4.0	1997	8	4.0	1997	5	1987	8	1	1987
Ann	8.1	Jan 1998	4	8.1	Jan 1998	18	Feb 1975	4	11+	Apr 1975

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	.4	.4	.2	.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	.2	.2	.1	.0	.0
Dec	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9	-9.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
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	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	7/21	7/15	7/10	7/07	7/03	6/30	6/26	6/22	6/16
32	7/02	6/25	6/20	6/15	6/11	6/07	6/03	5/29	5/22
28	6/13	6/07	6/02	5/29	5/26	5/22	5/18	5/14	5/07
24	5/26	5/19	5/15	5/11	5/07	5/03	4/29	4/25	4/18
20	5/10	5/01	4/24	4/18	4/13	4/07	4/01	3/25	3/16
16	4/18	4/08	4/01	3/26	3/20	3/15	3/09	3/02	2/20

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	8/06	8/12	8/16	8/19	8/22	8/25	8/29	9/01	9/07
32	8/22	8/27	8/31	9/03	9/06	9/09	9/13	9/16	9/22
28	9/10	9/14	9/18	9/21	9/23	9/26	9/29	10/02	10/07
24	9/20	9/25	9/28	10/01	10/04	10/06	10/09	10/12	10/17
20	9/28	10/05	10/10	10/14	10/18	10/22	10/26	10/30	11/06
16	10/13	10/19	10/24	10/28	11/01	11/05	11/09	11/14	11/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	75	66	60	54	49	44	38	32	23
32	108	100	95	91	86	82	78	73	65
28	145	136	130	125	120	115	110	103	95
24	172	164	158	153	149	144	139	134	126
20	217	207	200	193	187	181	175	168	157
16	263	250	241	233	225	218	210	200	187

***** 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	1071	864	805	628	417	193	63	76	245	537	861	1082	6842
60	916	724	650	478	272	94	15	20	129	384	711	927	5320
57	823	640	557	392	194	53	5	6	78	297	621	834	4500
55	761	584	495	336	150	33	2	2	52	244	562	772	3993
50	612	450	350	209	66	7	0	0	13	132	419	617	2875
32	176	86	26	6	0	0	0	0	0	2	63	162	521

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	129	146	244	369	607	821	1057	1014	755	488	192	104	5926
55	0	0	0	9	44	164	346	304	117	18	0	0	1002
57	0	0	0	4	27	124	287	246	83	9	0	0	780
60	0	0	0	0	11	75	204	166	44	3	0	0	503
65	0	0	0	0	1	24	96	68	10	0	0	0	199
70	0	0	0	0	0	5	29	16	1	0	0	0	51

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	6	27	69	167	370	600	828	790	552	271	46	6	6	33	102	269	639	1239	2067	2857	3409	3680	3726	3732
45	0	2	22	81	232	450	673	635	402	152	11	0	0	2	24	105	337	787	1460	2095	2497	2649	2660	2660
50	0	0	0	27	120	306	518	480	265	70	0	0	0	0	0	27	147	453	971	1451	1716	1786	1786	1786
55	0	0	0	2	48	178	363	326	145	20	0	0	0	0	0	2	50	228	591	917	1062	1082	1082	1082
60	0	0	0	0	11	82	220	187	57	3	0	0	0	0	0	0	11	93	313	500	557	560	560	560
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	12	39	78	163	287	420	539	532	425	279	67	8	12	51	129	292	579	999	1538	2070	2495	2774	2841	2849

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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