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: DONNER MEMORIAL ST PK, CA **COOP ID: 042467**

Climate Division: CA 3 **NWS Call Sign:** **Elevation: 5,937 Feet** **Lat: 39˚19N** **Lon: 120˚14W**

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	39.6	14.4	27.0	61+	1976	29	34.7	1986	-18	1957	29	21.1	1982	1179	0	.0	.0	3.9	5.0	30.6	2.5
Feb	42.1	16.5	29.3	65+	1986	28	36.8	1991	-28	1962	27	22.4	1990	1001	0	.0	.0	7.6	3.1	27.9	1.7
Mar	45.1	21.2	33.2	71	1966	31	37.6	1986	-10	1955	1	27.2	1977	987	0	.0	.0	12.4	2.0	29.8	.3
Apr	51.7	25.4	38.6	79	1981	30	44.9	1987	0+	1975	7	28.8	1975	794	0	.0	.0	19.8	.4	27.2	@
May	60.8	31.2	46.0	87+	1986	31	52.6	1992	10	1974	18	39.1	1977	589	0	.0	.0	26.5	.0	19.6	.0
Jun	71.1	36.9	54.0	95	1985	18	59.1	2000	21	1966	3	48.9	1980	335	4	.0	.4	29.4	.0	6.8	.0
Jul	79.3	41.1	60.2	98	1972	16	64.3	1996	23	1974	11	55.3	1983	167	18	.0	2.2	30.9	.0	1.9	.0
Aug	79.2	40.5	59.9	99	1981	9	63.1	1981	20	1974	14	54.0	1976	183	19	.0	2.1	31.0	.0	2.1	.0
Sep	72.2	35.0	53.6	96	1955	3	57.3	1981	16	1974	28	48.8	1985	344	3	.0	.3	29.5	.0	10.4	.0
Oct	61.6	28.1	44.9	90	1980	2	50.7	1988	4	1956	24	39.1	1971	625	0	.0	@	26.4	.1	25.7	.0
Nov	47.4	21.4	34.4	75+	1976	5	41.7	1995	0+	1994	19	26.2	1994	917	0	.0	.0	13.8	1.5	28.7	.1
Dec	39.7	15.3	27.5	67	1958	4	33.8	1981	-31	1965	25	20.7	1990	1163	0	.0	.0	4.8	5.2	30.4	1.9
Ann	57.5	27.3	42.4	99	Aug 1981	9	64.3	Jul 1996	-31	Dec 1965	25	20.7	Dec 1990	8284	44	.0	5.0	236.0	17.3	241.1	6.5

\+ 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: 1953-2001

(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	6.89	6.00	4.10	1964	21	19.79	1997	.16	1991
Feb	6.72	5.57	6.81	1963	1	16.41	1986	.02	1988
Mar	5.83	4.43	4.56	1995	11	20.89	1995	.46	1988
Apr	2.50	2.20	3.33	1958	3	8.79	1982	.02	1985
May	1.55	1.22	2.42	1957	19	4.91	1996	.00+	1985
Jun	.76	.62	1.35	1970	27	2.45	1997	.00+	1994
Jul	.47	.26	2.47	1974	9	3.93	1974	.00+	2000
Aug	.59	.22	1.85	1976	15	3.09	1976	.00+	1994
Sep	1.11	.63	1.55	1998	6	4.93	1982	.00+	1995
Oct	2.18	1.72	4.00	1962	13	7.31	1975	.00+	1995
Nov	4.92	2.98	3.31	1983	11	16.65	1981	.43	1992
Dec	5.48	3.76	6.50	1964	23	20.20	1996	.00	1989
Ann	39.00	36.85	6.81	Feb 1963	1	20.89	Mar 1995	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	8.5	4.3	2.4
Feb	10.8	8.5	4.3	2.5
Mar	11.3	8.5	3.9	1.8
Apr	8.4	5.4	1.5	.4
May	6.1	3.9	.8	.2
Jun	3.5	2.3	.4	.0
Jul	1.8	1.0	.2	.1
Aug	2.5	1.4	.3	.1
Sep	3.8	2.3	.7	.2
Oct	5.1	3.6	1.4	.7
Nov	8.8	6.7	3.0	1.5
Dec	9.5	7.4	3.6	1.7
Ann	82.3	59.5	24.4	11.6

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	.47	.90	1.77	2.72	3.77	5.00	6.48	8.36	10.98	15.40	19.78
Feb	.65	1.13	2.04	2.98	3.99	5.14	6.50	8.20	10.53	14.40	18.20
Mar	.69	1.15	1.96	2.78	3.64	4.60	5.73	7.12	9.01	12.12	15.14
Apr	.17	.33	.64	.98	1.37	1.81	2.34	3.02	3.97	5.57	7.16
May	.00	.21	.51	.76	1.01	1.27	1.58	1.94	2.43	3.23	4.00
Jun	.00	.10	.24	.36	.49	.62	.77	.95	1.20	1.60	1.99
Jul	.00	.00	.00	.05	.12	.22	.36	.54	.81	1.29	1.78
Aug	.00	.00	.02	.08	.17	.29	.45	.67	1.00	1.60	2.22
Sep	.00	.00	.13	.29	.47	.70	.98	1.35	1.86	2.76	3.66
Oct	.00	.00	.23	.58	.97	1.43	1.98	2.69	3.69	5.35	7.01
Nov	.40	.73	1.38	2.06	2.81	3.66	4.69	5.98	7.77	10.76	13.71
Dec	.15	.53	1.27	2.05	2.93	3.94	5.15	6.69	8.83	12.44	16.01
Ann	18.63	21.99	26.61	30.34	33.78	37.24	40.92	45.12	50.38	58.32	65.45

\+ 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: 1953-2001
(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	39.7	39.0	21	17
Feb	46.4	43.5	28	29
Mar	30.3	23.9	25	25
Apr	16.4	8.4	12	4
May	4.5	3.0	2	#
Jun	.5	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	#	0
Sep	.3	.0	#	0
Oct	2.4	.0	#	#
Nov	14.4	11.0	2	1
Dec	29.8	20.0	10	8
Ann	184.7	148.8	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	26.0	1997	23	79.9	1996	78	1971	15	60	1993
Feb	25.0	1975	10	103.0	1975	94	1993	24	61	1993
Mar	24.2	1985	27	100.8	1982	76	1993	1	55	1983
Apr	27.0	1975	5	56.2	1982	77	1975	5	55	1975
May	8.2	1991	9	19.0	1977	46	1983	6	24	1983
Jun	4.0	1995	16	4.0	1995	4	1995	16	#+	1999
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	1	1978	7	#	1978
Sep	4.0	1971	30	4.0	1971	4	1971	30	#	1971
Oct	11.0	1981	29	12.8	1981	12	1981	29	1+	2000
Nov	23.0	1985	10	51.6	1994	32	1994	26	11	1985
Dec	48.0	1996	22	104.9	1992	62	1992	30	23	1982
Ann	48.0	Dec 1996	22	104.9	Dec 1992	94	Feb 1993	24	61	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.7	6.5	4.5	3.1	1.4
Feb	8.3	7.0	4.6	3.1	1.5
Mar	7.7	5.9	3.6	2.4	1.1
Apr	4.5	3.4	1.9	1.0	.4
May	1.9	1.4	.6	.2	.0
Jun	.4	.2	@	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	@	.0	.0
Oct	.9	.6	.2	.1	@
Nov	4.7	3.8	2.0	1.1	.2
Dec	6.1	5.2	3.1	2.3	.9
Ann	42.3	34.1	20.5	13.3	5.5

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	25.9	24.0	23.5	20.5
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	9.8	8.5	7.7	6.1
May	2.1	1.5	1.0	.8
Jun	.2	@	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	@	@	.0	.0
Oct	1.0	.3	.2	@
Nov	8.5	6.5	4.5	2.2
Dec	19.4	17.4	14.6	9.2
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	8/02	7/29	7/26	7/23	7/20	7/18	7/15	7/12	7/08
32	7/24	7/18	7/13	7/09	7/06	7/02	6/28	6/24	6/17
28	7/09	7/01	6/25	6/20	6/16	6/11	6/06	5/31	5/23
24	6/02	5/25	5/20	5/15	5/11	5/06	5/02	4/26	4/18
20	5/07	5/02	4/28	4/25	4/22	4/19	4/16	4/12	4/07
16	5/05	4/26	4/19	4/13	4/08	4/03	3/28	3/21	3/12

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	8/01	8/04	8/07	8/09	8/11	8/14	8/16	8/18	8/22
32	8/10	8/16	8/20	8/24	8/28	8/31	9/04	9/08	9/14
28	8/28	9/04	9/09	9/14	9/18	9/22	9/26	10/01	10/09
24	9/16	9/24	10/01	10/06	10/11	10/16	10/21	10/28	11/05
20	10/02	10/10	10/16	10/21	10/26	10/31	11/05	11/10	11/18
16	10/18	10/25	10/30	11/04	11/08	11/12	11/16	11/21	11/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	40	34	29	25	21	18	14	9	3
32	84	73	65	58	52	46	39	31	20
28	125	114	106	100	93	87	81	73	62
24	192	178	169	160	153	145	137	127	113
20	217	206	199	192	186	180	173	166	155
16	251	238	228	221	213	206	198	188	175

***** 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	1179	1001	987	794	589	335	167	183	344	625	917	1163	8284
60	1024	861	832	644	437	203	69	83	209	471	767	1008	6608
57	931	777	739	555	351	139	31	42	142	381	677	915	5680
55	869	721	677	498	295	103	16	24	105	324	617	853	5102
50	714	581	524	360	176	40	2	4	39	197	470	698	3805
32	205	132	98	44	5	0	0	0	0	5	80	197	766

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	48	55	133	240	439	659	874	859	648	403	153	57	4568
55	0	0	0	4	16	73	178	170	63	9	0	0	513
57	0	0	0	1	10	48	131	126	40	4	0	0	360
60	0	0	0	0	3	22	76	74	18	1	0	0	194
65	0	0	0	0	0	4	18	19	3	0	0	0	44
70	0	0	0	0	0	0	2	3	0	0	0	0	5

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	0	0	20	85	244	450	651	638	433	201	33	0	0	0	20	105	349	799	1450	2088	2521	2722	2755	2755
45	0	0	0	27	133	305	496	483	292	95	5	0	0	0	0	27	160	465	961	1444	1736	1831	1836	1836
50	0	0	0	3	55	181	346	328	164	34	0	0	0	0	0	3	58	239	585	913	1077	1111	1111	1111
55	0	0	0	0	13	82	199	185	67	5	0	0	0	0	0	0	13	95	294	479	546	551	551	551
60	0	0	0	0	1	24	86	72	15	0	0	0	0	0	0	0	1	25	111	183	198	198	198	198
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	20	39	103	217	346	473	470	363	219	60	6	1	21	60	163	380	726	1199	1669	2032	2251	2311	2317

(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