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: SAGEHEN CREEK, CA **COOP ID: 047641**

Climate Division: CA 3 **NWS Call Sign:** **Elevation: 6,337 Feet** **Lat: 39˚26N** **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	38.8	14.1	26.5	58	1996	12	34.5	1986	-21	1979	29	20.6	1982	1195	0	.0	.0	2.9	5.7	29.7	2.9
Feb	41.5	15.9	28.7	64	1986	28	36.6	1991	-33	1989	7	21.9	1990	1016	0	.0	.0	5.2	3.8	27.2	1.9
Mar	46.0	20.3	33.2	69	1994	14	38.8	1972	-9	1985	8	27.5	1985	987	0	.0	.0	11.2	1.4	28.1	.5
Apr	52.4	23.9	38.2	78	1981	30	44.3	1987	1+	1999	10	31.6	1975	806	0	.0	.0	18.9	.2	27.9	.0
May	61.0	29.2	45.1	84	1986	30	51.1	1992	10	1988	1	38.9	1977	616	0	.0	.0	26.9	.0	25.1	.0
Jun	70.4	34.1	52.3	90	1985	18	56.5	1985	18	1981	13	48.3	1980	383	0	.0	@	29.6	.0	15.5	.0
Jul	78.2	36.9	57.6	92	1998	16	61.2	1996	24	1981	13	53.8	1983	236	4	.0	.6	31.0	.0	7.7	.0
Aug	77.5	36.7	57.1	95	1981	8	60.7	1981	25+	1981	3	52.5	1976	247	2	.0	.5	31.0	.0	9.5	.0
Sep	70.9	32.1	51.5	90	1988	4	54.8	1974	16	1978	18	45.0	1986	405	0	.0	@	29.5	.0	19.0	.0
Oct	59.8	26.1	43.0	85	1980	1	47.8	1988	8	1981	30	38.6	1971	684	0	.0	.0	25.6	.1	28.1	.0
Nov	45.5	20.2	32.9	70	1980	4	41.2	1995	-8+	1994	19	25.5	1994	966	0	.0	.0	12.7	1.4	27.4	.6
Dec	38.8	13.8	26.3	58	1980	26	32.4	1981	-28	1990	22	20.1	1990	1200	0	.0	.0	2.4	5.9	29.8	3.2
Ann	56.7	25.3	41.0	95	Aug 1981	8	61.2	Jul 1996	-33	Feb 1989	7	20.1	Dec 1990	8741	6	.0	1.1	226.9	18.5	275.0	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: 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	4.89	3.91	3.89	1980	12	13.34	1980	.31	1991
Feb	5.58	4.69	5.43	1986	17	23.67	1986	.10	1988
Mar	5.15	3.54	4.20	1983	13	18.62	1995	.30	1988
Apr	1.76	1.32	3.01	1982	11	6.53	1982	.09	1977
May	1.50	1.12	3.01	1996	16	6.39	1996	.14	1985
Jun	.63	.53	1.20	1958	18	1.80	1989	.00+	1994
Jul	.52	.30	1.94	1974	9	2.83	1974	.00+	2000
Aug	.55	.27	2.07	1966	2	2.80	1976	.00+	1997
Sep	1.15	.67	2.01	1959	18	4.80	1982	.00+	1995
Oct	2.19	1.54	3.83	1962	13	7.62	1982	.00+	1995
Nov	4.31	2.34	4.74	1981	14	17.08	1983	.15	1992
Dec	4.40	3.37	5.48	1955	23	18.24	1996	.00	1989
Ann	32.63	29.89	5.48	Dec 1955	23	23.67	Feb 1986	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.9	7.7	3.4	1.4
Feb	10.4	7.7	3.6	1.9
Mar	10.4	7.3	2.9	1.5
Apr	6.9	4.0	1.0	.2
May	6.7	3.8	.6	.2
Jun	3.7	2.0	.2	.0
Jul	2.3	1.3	.3	.1
Aug	2.8	1.6	.3	.1
Sep	4.2	2.7	.8	.2
Oct	5.6	3.7	1.5	.7
Nov	8.5	6.0	2.5	1.3
Dec	8.9	6.4	2.9	1.3
Ann	80.3	54.2	20.0	8.9

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	.41	.75	1.40	2.07	2.82	3.67	4.68	5.96	7.72	10.66	13.55
Feb	.48	.86	1.60	2.37	3.22	4.19	5.35	6.80	8.80	12.14	15.43
Mar	.51	.89	1.59	2.31	3.09	3.96	4.99	6.28	8.05	10.98	13.85
Apr	.18	.32	.56	.80	1.07	1.37	1.71	2.15	2.74	3.73	4.69
May	.16	.28	.48	.69	.92	1.17	1.47	1.83	2.33	3.17	3.97
Jun	.00	.11	.24	.34	.43	.54	.65	.78	.96	1.24	1.51
Jul	.00	.00	.02	.09	.18	.30	.44	.62	.89	1.35	1.83
Aug	.00	.00	.02	.09	.19	.31	.46	.66	.94	1.43	1.93
Sep	.00	.00	.16	.33	.53	.76	1.05	1.41	1.91	2.78	3.64
Oct	.00	.20	.57	.92	1.28	1.68	2.15	2.72	3.51	4.81	6.08
Nov	.19	.41	.90	1.46	2.13	2.92	3.90	5.17	6.97	10.07	13.18
Dec	.11	.40	.98	1.61	2.31	3.13	4.11	5.36	7.11	10.07	13.00
Ann	13.35	16.34	20.55	24.03	27.30	30.62	34.20	38.32	43.55	51.54	58.80

\+ 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)

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	38.0	39.2	28	23	27.0	1978	5	110.2	1982	91	1971	14	77	1993	7.1	5.7	4.0	2.7	1.2	29.7	28.7	28.7	27.8
Feb	33.5	23.9	40	37	33.0	1985	8	90.0	1993	116	1993	24	86	1993	5.4	5.0	3.4	2.5	1.4	-9.9	-9.9	-9.9	-9.9
Mar	22.6	8.0	39	31	35.0	1982	31	114.0	1982	105	1993	1	87	1983	4.8	4.4	2.7	1.6	.9	-9.9	-9.9	-9.9	-9.9
Apr	5.1	.3	20	10	19.0	1983	24	39.0	1983	87	1983	24	78	1983	1.7	1.2	.6	.4	.1	12.5	11.9	11.1	9.4
May	1.6	.0	3	0	9.0	1998	13	12.5	1998	74	1983	1	34	1983	.7	.6	.2	.1	.0	1.7	1.5	1.4	1.2
Jun	.3	.0	0	0	3.0	1984	6	3.0	1984	0	0	0	0	0	.2	.1	@	.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	#	1999	9	#	1999	#	1999	9	#	1999	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.5	.0	#	0	5.0	1986	27	5.0	1986	5	1986	27	#+	1986	.2	.1	.1	@	.0	.1	.1	@	.0
Oct	1.7	.0	#	0	7.0	1981	29	14.0	1981	11	1981	30	1	1989	.7	.5	.3	.1	.0	.8	.4	.3	.1
Nov	10.3	2.6	4	2	38.0	1985	10	62.7	1985	38	1985	10	14	1985	3.2	2.9	1.7	.9	.4	8.6	6.4	5.0	3.0
Dec	30.2	24.0	14	11	48.1	1996	21	105.3	1992	70	1992	30	36	1982	6.5	5.2	3.1	2.2	.9	22.6	20.6	18.7	14.6
Ann	143.8	98.0	N/A	N/A	48.1	Dec 1996	21	114.0	Mar 1982	116	Feb 1993	24	87	Mar 1983	30.5	25.7	16.1	10.5	4.9	-9.9	-9.9	-9.9	-9.9

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	8/01	7/31	7/30	7/30	7/29	7/28	7/27	7/26
32	8/05	7/31	7/28	7/25	7/22	7/19	7/16	7/13	7/08
28	7/25	7/20	7/16	7/12	7/09	7/06	7/03	6/29	6/23
24	6/27	6/19	6/12	6/07	6/02	5/29	5/23	5/17	5/09
20	6/01	5/25	5/19	5/14	5/10	5/05	4/30	4/25	4/17
16	5/03	4/27	4/24	4/20	4/17	4/14	4/11	4/07	4/01

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	7/31	8/01	8/02	8/03	8/03	8/04	8/05	8/06	8/07
32	7/31	8/02	8/04	8/06	8/07	8/09	8/10	8/12	8/15
28	8/02	8/08	8/12	8/15	8/19	8/22	8/25	8/30	9/04
24	9/05	9/11	9/15	9/19	9/22	9/25	9/29	10/03	10/09
20	9/20	9/27	10/02	10/06	10/10	10/14	10/18	10/22	10/29
16	10/09	10/15	10/20	10/24	10/27	10/31	11/04	11/08	11/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9	7	6	5	4	3	2	1	0
32	31	26	22	19	16	12	9	5	0
28	65	56	50	45	40	35	29	23	14
24	142	131	123	117	111	105	98	91	80
20	186	174	166	159	152	146	139	130	119
16	213	206	201	197	193	188	184	179	172

***** 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	1195	1016	987	806	616	383	236	247	405	684	966	1200	8741
60	1040	876	832	656	461	239	109	114	259	529	816	1045	6976
57	947	792	739	566	370	163	57	59	180	436	726	952	5987
55	885	736	677	506	313	120	32	32	134	376	666	890	5367
50	730	596	522	366	184	43	4	3	51	235	516	735	3985
32	214	138	87	37	3	0	0	0	0	5	87	223	794

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	42	46	123	221	411	607	791	777	585	344	112	46	4105
55	0	0	0	0	8	37	110	96	29	2	0	0	282
57	0	0	0	0	3	20	74	61	15	1	0	0	174
60	0	0	0	0	0	7	32	23	4	0	0	0	66
65	0	0	0	0	0	0	4	2	0	0	0	0	6
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	15	52	188	358	546	524	349	138	28	0	0	0	15	67	255	613	1159	1683	2032	2170	2198	2198
45	0	0	0	10	82	219	391	370	208	47	2	0	0	0	0	10	92	311	702	1072	1280	1327	1329	1329
50	0	0	0	0	21	103	240	221	93	8	0	0	0	0	0	0	21	124	364	585	678	686	686	686
55	0	0	0	0	1	32	109	94	26	0	0	0	0	0	0	0	1	33	142	236	262	262	262	262
60	0	0	0	0	0	3	28	19	0	0	0	0	0	0	0	0	0	3	31	50	50	50	50	50
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	11	30	86	193	316	448	436	325	180	51	0	0	11	41	127	320	636	1084	1520	1845	2025	2076	2076

(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

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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