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: HAYFORK 2 W, CA **COOP ID: 043859**

Climate Division: CA 1 **NWS Call Sign:** **Elevation: 2,300 Feet** **Lat: 40˚33N** **Lon: 123˚13W**

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	.0	.0	.0	69	1976	29	.0	0	8	1997	14	.0	0	0	0	.0	.0	21.6	.0	28.0	.0
Feb	.0	.0	.0	74+	1996	16	.0	0	12	1976	12	.0	0	0	0	.0	.0	21.8	.3	23.8	.0
Mar	.0	.0	.0	83	1997	25	.0	0	19+	1999	7	.0	0	0	0	.0	.0	30.3	.0	19.9	.0
Apr	.0	.0	.0	85	2000	2	.0	0	18	1997	2	.0	0	0	0	.0	.0	29.7	.0	15.8	.0
May	.0	.0	.0	97	2001	31	.0	0	24	1980	6	.0	0	0	0	.0	.3	30.9	.0	2.3	.0
Jun	.0	.0	.0	100	2000	14	.0	0	27	1999	7	.0	0	0	0	@	1.1	30.0	.0	.2	.0
Jul	.0	.0	.0	107	1999	13	.0	0	36+	1999	5	.0	0	0	0	.7	21.7	31.0	.0	.0	.0
Aug	.0	.0	.0	107	1998	14	.0	0	31+	2000	17	.0	0	0	0	1.0	25.1	31.0	.0	.1	.0
Sep	.0	.0	.0	107+	1998	2	.0	0	28+	2000	25	.0	0	0	0	.2	6.8	30.0	.0	.5	.0
Oct	.0	.0	.0	100+	1996	8	.0	0	18	1996	21	.0	0	0	0	.1	.2	31.0	.0	13.3	.0
Nov	.0	.0	.0	76	1997	2	.0	0	17	1979	21	.0	0	0	0	.0	.0	25.7	.0	7.6	.0
Dec	.0	.0	.0	67	1995	1	.0	0	-1	1998	22	.0	0	0	0	.0	.0	14.8	.1	26.7	.1
Ann	.0	.0	.0	107+	Jul 1999	13	-99.9	0	-1	Dec 1998	22	99.9	0	0	0	2.0	55.2	327.8	.4	138.2	.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

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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	6.50	5.57	4.00	1959	5	18.52	1995	.28	1984
Feb	5.70	4.77	3.92	1950	4	15.53	1998	.01	1988
Mar	5.25	4.01	3.34	1998	22	13.18	1995	.16	1994
Apr	1.86	1.95	2.65	1953	27	3.57	1978	.10	1985
May	1.17	.68	1.70	1990	27	5.39	1990	.06	1973
Jun	.62	.22	1.66	1993	1	5.35	1982	.00+	1981
Jul	.27	.11	1.69	1990	19	1.70	1990	.00+	1999
Aug	.34	.14	1.00	1962	9	2.15	1983	.00+	1996
Sep	.99	.70	1.90	1972	27	4.14	1986	.00+	1999
Oct	2.11	1.96	3.50	1989	23	6.01	1975	.00	1978
Nov	5.07	3.85	3.20	1983	13	15.23	1984	.28	1990
Dec	5.74	4.63	3.74	1995	12	19.46	1996	.03	1989
Ann	35.62	33.69	4.00	Jan 1959	5	19.46	Dec 1996	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.1	3.9	1.6
Feb	10.9	8.3	3.6	1.4
Mar	11.5	7.5	2.8	1.0
Apr	7.9	3.9	.8	@
May	5.9	3.2	.7	.1
Jun	3.3	1.6	.3	.1
Jul	1.3	.6	.1	@
Aug	1.9	1.0	.2	.0
Sep	3.0	2.1	.8	.1
Oct	5.5	3.6	1.2	.5
Nov	9.4	6.1	2.5	1.2
Dec	10.5	8.0	3.4	1.6
Ann	81.6	53.0	20.3	7.6

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	.75	1.25	2.16	3.07	4.03	5.11	6.37	7.94	10.06	13.57	16.98
Feb	.52	.93	1.69	2.48	3.35	4.33	5.49	6.94	8.94	12.27	15.54
Mar	.68	1.10	1.85	2.58	3.35	4.20	5.19	6.41	8.07	10.78	13.40
Apr	.37	.53	.81	1.06	1.31	1.59	1.89	2.27	2.76	3.55	4.30
May	.05	.11	.24	.40	.58	.79	1.06	1.40	1.89	2.73	3.57
Jun	.00	.00	.02	.07	.16	.29	.46	.70	1.06	1.71	2.39
Jul	.00	.00	.00	.02	.06	.12	.20	.31	.47	.74	1.02
Aug	.00	.00	.00	.00	.02	.10	.20	.36	.59	1.02	1.46
Sep	.00	.00	.07	.26	.45	.67	.92	1.25	1.70	2.43	3.20
Oct	.03	.15	.40	.69	1.02	1.42	1.91	2.54	3.44	4.97	6.50
Nov	.46	.82	1.50	2.21	2.98	3.85	4.88	6.18	7.96	10.93	13.84
Dec	.41	.78	1.51	2.30	3.18	4.20	5.42	6.96	9.11	12.73	16.32
Ann	17.68	20.69	24.79	28.08	31.11	34.13	37.35	41.00	45.57	52.44	58.59

\+ 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
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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	2.7	.0	1	0	12.0	1971	13	17.0	1996	16	1971	14	9	1977	.6	.4	.2	.2	.1	.5	.3	.2	.1
Feb	.8	.0	1	0	6.0	1996	28	6.0	1996	33	1975	5	24	1975	.6	.3	.1	.1	.0	.0	.0	.0	.0
Mar	.4	.0	#	0	3.8	1999	31	7.6	1999	2	1990	14	#+	1997	.3	.1	@	.0	.0	.0	.0	.0	.0
Apr	.3	.0	#	0	3.5	1999	10	4.5	1999	#	1999	11	#	1999	.2	.1	@	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	0	0	2.3	1998	29	2.3	1998	0	0	0	0	0	.1	@	.0	.0	.0	.0	.0	.0	.0
Dec	1.9	.0	#	0	5.0	1996	22	10.0	1971	3	1997	14	1	1971	1.1	.6	.3	@	.0	.2	.1	.0	.0
Ann	6.2	.0	N/A	N/A	12.0	Jan 1971	13	17.0	Jan 1996	33	Feb 1975	5	24	Feb 1975	2.9	1.5	.6	.3	.1	.7	.4	.2	.1

+ 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	6/10	6/05	6/02	5/30	5/27	5/24	5/21	5/17	5/12
32	5/27	5/23	5/20	5/17	5/15	5/12	5/09	5/06	5/02
28	5/02	4/25	4/20	4/16	4/12	4/08	4/04	3/30	3/23
24	3/24	3/11	3/01	2/21	2/14	2/06	1/29	1/20	1/07
20	2/22	2/06	1/26	1/16	1/06	12/28	12/17	12/05	11/15
16	1/21	12/31	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	9/05	9/09	9/12	9/15	9/17	9/20	9/23	9/26	9/30
32	9/21	9/27	10/01	10/04	10/07	10/11	10/14	10/18	10/24
28	10/10	10/12	10/13	10/14	10/16	10/17	10/18	10/19	10/21
24	11/14	11/22	11/28	12/03	12/08	12/13	12/18	12/24	1/01
20	11/23	12/01	12/06	12/11	12/15	12/20	12/25	12/30	1/07
16	12/20	12/28	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	139	130	123	118	113	108	102	96	87
32	173	163	156	150	145	140	134	127	117
28	209	201	195	190	186	181	176	171	163
24	349	331	318	307	296	286	275	262	244
20	>365	>365	>365	359	345	332	319	304	283
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
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	13	40	188	264	480	670	895	884	703	425	167	26	13	53	241	505	985	1655	2550	3434	4137	4562	4729	4755
45	0	1	63	122	325	520	740	729	553	270	48	1	0	1	64	186	511	1031	1771	2500	3053	3323	3371	3372
50	0	0	5	31	172	370	585	574	403	122	3	0	0	0	5	36	208	578	1163	1737	2140	2262	2265	2265
55	0	0	0	2	48	221	430	419	253	34	0	0	0	0	0	2	50	271	701	1120	1373	1407	1407	1407
60	0	0	0	0	3	79	275	264	109	3	0	0	0	0	0	0	3	82	357	621	730	733	733	733
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	15	36	169	231	362	488	558	558	522	383	98	28	15	51	220	451	813	1301	1859	2417	2939	3322	3420	3448

(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