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: SAN GABRIEL FIRE DEPT, CA **COOP ID: 047785**

Climate Division: CA 6 **NWS Call Sign:** **Elevation: 450 Feet** **Lat: 34˚06N** **Lon: 118˚06W**

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	69.9	42.6	56.3	94	1971	18	62.3	1986	22	1949	4	52.4	1979	273	3	.0	.1	31.0	.0	1.4	.0
Feb	71.5	44.8	58.2	94	1995	2	62.9	1995	25	1989	6	54.8	1979	198	6	.0	.6	28.0	.0	.4	.0
Mar	72.3	47.3	59.8	101	1988	26	64.6	1997	31+	1971	2	55.6	1973	184	23	@	.8	31.0	.0	.1	.0
Apr	76.8	50.0	63.4	106	1989	6	68.1	1992	34+	1975	7	57.0	1975	110	62	.1	2.6	30.0	.0	.0	.0
May	78.7	54.7	66.7	106	1942	20	73.3	1997	38	1962	13	61.8	1977	64	117	.2	3.0	31.0	.0	.0	.0
Jun	84.3	58.6	71.5	111	1990	26	77.1	1981	43	1971	1	66.1	1982	14	207	1.1	6.3	30.0	.0	.0	.0
Jul	89.0	62.2	75.6	108	1985	1	79.2	1984	46	1948	7	71.4	1987	0	328	1.4	14.3	31.0	.0	.0	.0
Aug	90.2	62.9	76.6	112	1983	7	80.7	1998	50+	1956	22	73.0	1975	0	358	2.1	17.5	31.0	.0	.0	.0
Sep	88.3	61.0	74.7	112	1988	4	81.6	1984	42	1948	28	68.3	1986	6	295	3.2	13.5	30.0	.0	.0	.0
Oct	83.1	54.7	68.9	108	1991	10	73.4	1999	33	1971	30	66.1	1975	26	146	.8	7.2	31.0	.0	.0	.0
Nov	75.6	46.4	61.0	101	1997	2	64.7	1976	30+	1958	17	55.7	1994	145	24	.1	1.3	30.0	.0	.1	.0
Dec	70.8	41.9	56.4	96	1958	3	60.3	1980	24	1990	22	51.2	1971	275	6	.0	.1	31.0	.0	1.6	.0
Ann	79.2	52.3	65.8	112+	Sep 1988	4	81.6	Sep 1984	22	Jan 1949	4	51.2	Dec 1971	1295	1575	9.0	67.3	365.0	.0	3.6	.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: 1939-2001

(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	4.07	2.98	6.93	1956	26	15.52	1995	.00+	1976
Feb	4.66	3.31	3.89	1944	22	17.50	1980	.00	1984
Mar	3.76	2.61	4.95	1983	2	13.34	1983	.00+	1997
Apr	1.01	.60	1.63	1983	20	6.00	1983	.00+	1997
May	.41	.07	1.52+	1998	6	5.17	1998	.00+	2000
Jun	.16	.00	1.10	1995	16	1.19	1995	.00+	2000
Jul	.03	.00	.26	1992	11	.68	1992	.00+	2000
Aug	.10	.00	.96	1984	15	1.06	1983	.00+	1999
Sep	.44	.02	4.17	1939	25	3.86	1976	.00+	2000
Oct	.57	.31	2.39	1976	23	3.40	1987	.00+	1999
Nov	1.29	.77	4.46	1970	29	4.77	1982	.00+	2000
Dec	2.06	1.55	4.03	1965	29	6.85	1971	.00	2000
Ann	18.56	16.30	6.93	Jan 1956	26	17.50	Feb 1980	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.5	4.8	2.5	1.6
Feb	5.7	4.8	2.7	1.6
Mar	6.4	4.8	2.6	1.2
Apr	3.0	2.0	.7	.3
May	1.7	.7	.2	.2
Jun	.7	.4	.1	@
Jul	.4	.1	.0	.0
Aug	.4	.2	.1	.0
Sep	1.2	.8	.3	.1
Oct	1.9	1.1	.4	.2
Nov	2.9	2.0	1.2	.4
Dec	4.4	2.9	1.4	.7
Ann	35.2	24.6	12.2	6.3

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	.00	.14	.63	1.20	1.87	2.67	3.66	4.92	6.73	9.84	12.96
Feb	.02	.15	.54	1.09	1.79	2.69	3.85	5.42	7.72	11.81	16.01
Mar	.00	.00	.65	1.26	1.91	2.66	3.55	4.68	6.21	8.81	11.37
Apr	.00	.00	.00	.08	.25	.48	.77	1.18	1.76	2.79	3.84
May	.00	.00	.00	.00	.02	.07	.17	.34	.64	1.07	1.72
Jun	.00	.00	.00	.00	.00	.00	.00	.07	.21	.52	.88
Jul	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.21
Aug	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.66
Sep	.00	.00	.00	.00	.00	.01	.09	.29	.66	1.43	2.28
Oct	.00	.00	.00	.04	.13	.26	.43	.66	.99	1.59	2.21
Nov	.00	.00	.04	.21	.43	.70	1.06	1.53	2.21	3.40	4.62
Dec	.01	.07	.26	.51	.82	1.22	1.73	2.41	3.41	5.16	6.96
Ann	6.15	7.91	10.49	12.69	14.80	16.98	19.36	22.15	25.73	31.28	36.41

+ 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: 1939-2001
(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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.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	3/26	3/14	3/05	2/25	2/17	2/10	2/02	1/24	1/11
32	2/20	2/07	1/29	1/20	1/11	1/02	12/20	0/00	0/00
28	1/22	1/05	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	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	11/10	11/19	11/25	11/30	12/05	12/10	12/16	12/22	12/31
32	12/01	12/12	12/21	12/28	1/05	1/13	1/25	0/00	0/00
28	12/30	1/23	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	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	336	318	306	297	288	279	270	259	244
32	>365	>365	>365	>365	>365	350	333	319	302
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	273	198	184	110	64	14	0	0	6	26	145	275	1295
60	137	89	86	41	18	2	0	0	0	3	57	144	577
57	79	45	44	18	7	0	0	0	0	0	26	88	307
55	49	24	25	10	3	0	0	0	0	0	13	58	182
50	8	4	5	0	0	0	0	0	0	0	2	13	32
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	753	733	862	942	1075	1183	1351	1381	1278	1144	869	754	12325
55	88	112	174	262	365	493	638	668	588	431	193	98	4110
57	57	78	131	210	308	433	576	606	528	369	145	67	3508
60	22	37	80	143	225	345	483	513	438	279	86	30	2681
65	3	6	23	62	117	207	328	358	295	146	24	6	1575
70	0	0	4	17	44	99	180	212	167	56	3	0	782

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	510	536	620	704	831	950	1113	1147	1046	906	636	511	510	1046	1666	2370	3201	4151	5264	6411	7457	8363	8999	9510
45	356	392	465	554	676	800	958	992	896	751	486	356	356	748	1213	1767	2443	3243	4201	5193	6089	6840	7326	7682
50	210	249	312	405	521	650	803	837	746	596	336	210	210	459	771	1176	1697	2347	3150	3987	4733	5329	5665	5875
55	90	120	169	259	366	500	648	682	596	441	192	89	90	210	379	638	1004	1504	2152	2834	3430	3871	4063	4152
60	25	42	66	135	215	351	493	527	446	290	80	22	25	67	133	268	483	834	1327	1854	2300	2590	2670	2692
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	320	328	370	426	516	615	743	758	674	570	399	331	320	648	1018	1444	1960	2575	3318	4076	4750	5320	5719	6050

(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