

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: SAN GREGORIO 2 SE, CA

1971-2000

COOP ID: 047807

Climate Division: CA 4

NWS Call Sign:

Elevation: 275 Feet

Lat: 37° 18N

Lon: 122° 22W

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	60.1	40.3	50.2	81	1962	30	54.0	1981	23	1963	13	47.3	1989	459	0	.0	.0	30.1	.0	3.6	.0
Feb	60.3	41.6	51.0	82	1986	26	54.7	1980	26+	2001	8	46.4	1989	394	0	.0	.0	27.5	@	1.7	.0
Mar	60.2	42.2	51.2	81	1978	17	56.2	1978	27	1972	26	46.9	1999	413	0	.0	.0	30.8	.0	1.2	.0
Apr	62.1	42.6	52.4	91+	1989	8	56.6	1989	29	1976	1	48.8	1975	379	0	.0	.1	29.9	.0	.5	.0
May	63.8	46.0	54.9	95	1976	12	59.0	1997	32+	1972	3	52.0	1971	314	0	.0	.1	31.0	.0	@	.0
Jun	67.1	48.2	57.7	97	1976	24	60.8	1992	32	2001	13	55.2	1991	220	0	.0	.4	30.0	.0	.0	.0
Jul	69.9	50.6	60.3	94	1959	10	63.7	1992	37	1966	3	57.5	1971	153	5	.0	.2	31.0	.0	.0	.0
Aug	71.1	51.1	61.1	94+	1993	1	64.4	1990	38+	1975	7	58.3	1973	128	7	.0	.1	31.0	.0	.0	.0
Sep	72.5	49.3	60.9	98	1979	11	65.5	1983	35+	1993	25	58.3	1996	136	12	.0	.6	30.0	.0	.0	.0
Oct	70.2	45.4	57.8	99+	1987	5	62.8	1983	29+	1996	26	52.5	1971	232	8	.0	.3	31.0	.0	.2	.0
Nov	64.8	41.7	53.3	89	1966	1	57.4	1976	27+	1993	24	47.8	1994	354	0	.0	.0	29.9	.0	1.5	.0
Dec	60.7	39.1	49.9	88	1958	3	54.1	1980	20	1998	21	44.9	1998	468	0	.0	.0	30.0	.0	4.4	.0
Ann	65.2	44.8	55.1	99+	Oct 1987	5	65.5	Sep 1983	20	Dec 1998	21	44.9	Dec 1998	3650	32	.0	1.8	362.2	@	13.1	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1954-2001

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

200-A

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NWS Call Sign:

Elevation: 275 Feet Lat: 37°18N

Lon: 122°22W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	5.71	5.10	6.23	1982	4	13.72	1995	.31	1984	12.0	8.1	3.6	1.7	.53	.94	1.71	2.50	3.37	4.35	5.51	6.96	8.95	12.28	15.53
Feb	5.37	4.04	4.38	1992	12	17.15	1998	.61+	1997	11.8	8.3	3.7	1.5	.53	.92	1.66	2.40	3.21	4.13	5.20	6.55	8.39	11.45	14.44
Mar	4.60	4.17	2.54	1983	2	12.51	1983	.32	1972	13.0	8.7	3.1	1.0	.57	.93	1.58	2.23	2.90	3.66	4.54	5.62	7.09	9.51	11.85
Apr	2.00	1.72	2.30	1958	2	6.20	1978	.04	1973	8.7	4.7	1.2	.4	.20	.35	.62	.90	1.20	1.54	1.94	2.43	3.11	4.25	5.35
May	.85	.52	3.29	1957	18	4.13	1998	.00	1982	6.0	2.3	.3	.1	.01	.04	.13	.24	.37	.54	.74	1.01	1.40	2.07	2.76
Jun	.29	.21	.76	1967	2	1.03	1995	.00	1973	4.0	.9	.1	.0	.02	.05	.10	.14	.18	.23	.29	.36	.46	.61	.76
Jul	.13	.10	.81	1974	8	1.15	1974	.00+	2000	3.3	.2	@	.0	.00	.00	.00	.02	.05	.09	.12	.17	.23	.34	.44
Aug	.20	.08	.53	1976	15	1.63	1976	.00+	1996	3.7	.5	.1	.0	.00	.00	.02	.04	.07	.11	.17	.24	.34	.52	.71
Sep	.41	.19	4.50	1959	18	2.05	1986	.00	1987	3.5	1.2	.2	.0	.00	.01	.05	.09	.16	.23	.34	.48	.68	1.05	1.43
Oct	1.67	1.04	6.37	1962	13	5.92	1972	.07	1995	5.9	2.7	1.1	.5	.08	.17	.37	.59	.85	1.16	1.53	2.01	2.69	3.86	5.03
Nov	3.93	3.35	2.54	1981	13	10.48	1997	.20	1995	10.2	6.1	2.7	1.2	.28	.53	1.03	1.57	2.18	2.87	3.71	4.77	6.25	8.73	11.19
Dec	4.36	3.90	4.21	1995	12	11.38	1995	.20	1989	10.2	7.4	2.9	1.2	.60	.96	1.58	2.19	2.82	3.52	4.33	5.32	6.67	8.86	10.97
Ann	29.52	26.32	6.37	Oct 1962	13	17.15	Feb 1998	.00+	Jul 2000	92.3	51.1	19.0	7.6	14.87	17.35	20.71	23.40	25.87	28.34	30.96	33.93	37.65	43.23	48.22

+ 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: 1954-2001

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

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COOP ID: 047807

Climate Division: CA 4

NWS Call Sign:

Elevation: 275 Feet

Lat: 37° 18N

Lon: 122° 22W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	#	1974	3	#	1974	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1976	5	#	1976	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	#	1972	8	#	1972	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#+	Feb 1976	5	#+	Feb 1976	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

Complete documentation available from:

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Climate Division: CA 4

NWS Call Sign:

Elevation: 275 Feet

Lat: 37° 18N

Lon: 122° 22W

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	6/03	5/24	5/17	5/11	5/05	4/29	4/23	4/15	4/05
32	4/23	4/05	3/24	3/13	3/03	2/21	2/11	1/29	1/12
28	2/27	2/04	1/14	12/19	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	10/04	10/12	10/17	10/22	10/26	10/30	11/04	11/10	11/17
32	10/21	11/04	11/14	11/22	11/30	12/09	12/17	12/27	1/10
28	12/05	12/29	1/19	2/14	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	211	198	189	181	173	166	158	149	136
32	340	308	291	278	266	255	242	228	209
28	>365	>365	>365	>365	>365	>365	>365	>365	318
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

Complete documentation available from:

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NWS Call Sign:

Elevation: 275 Feet

Lat: 37°18N

Lon: 122°22W

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	459	394	413	379	314	220	153	128	136	232	354	468	3650
60	304	256	277	230	165	86	45	29	44	112	213	317	2078
57	216	179	193	148	90	34	12	6	14	62	139	232	1325
55	160	132	143	101	55	13	4	1	6	36	99	180	930
50	59	50	55	25	7	0	0	0	0	7	31	83	317
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	564	530	595	611	709	770	876	902	866	799	636	555	8413
55	11	19	24	22	50	93	167	190	182	122	45	22	947
57	5	9	12	9	24	54	113	133	130	85	25	12	611
60	0	2	4	1	6	16	53	63	70	42	9	4	270
65	0	0	0	0	0	0	5	7	12	8	0	0	32
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	307	320	358	389	475	541	631	649	612	530	372	291	307	627	985	1374	1849	2390	3021	3670	4282	4812	5184	5475
45	161	182	205	239	320	391	476	494	462	375	224	145	161	343	548	787	1107	1498	1974	2468	2930	3305	3529	3674
50	63	67	76	99	169	242	321	339	312	222	96	48	63	130	206	305	474	716	1037	1376	1688	1910	2006	2054
55	10	16	13	25	50	102	166	184	164	95	22	4	10	26	39	64	114	216	382	566	730	825	847	851
60	0	0	0	1	6	20	43	53	49	24	3	0	0	0	0	1	7	27	70	123	172	196	199	199
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	149	153	172	200	237	285	342	361	346	298	199	150	149	302	474	674	911	1196	1538	1899	2245	2543	2742	2892

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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