

# Climatology of the United States

## No. 20

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

**Station: CORCORAN IRRIG DIST, CA**

**1971-2000**

**COOP ID: 042012**

**Climate Division: CA 5**

**NWS Call Sign:**

**Elevation: 200 Feet**

**Lat: 36°06N**

**Lon: 119°35W**

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	54.1	38.0	46.1	75+	1981	19	52.2	1986	14	1960	2	39.4	1972	587	0	.0	.0	23.6	.0	7.6	.0
Feb	62.1	41.0	51.6	81	1989	22	55.4	1992	22	1949	14	46.2	1971	377	0	.0	.0	27.5	.0	3.0	.0
Mar	68.0	44.2	56.1	88+	1972	17	60.1	1997	26+	1971	3	50.0	1973	288	11	.0	.0	31.0	.0	1.1	.0
Apr	76.3	47.0	61.7	100+	1981	30	67.4	1989	29	1979	20	55.3	1975	155	55	.1	2.0	30.0	.0	.2	.0
May	85.2	53.0	69.1	107+	1984	29	75.2	1992	36+	1975	5	62.4	1998	50	178	1.6	10.3	31.0	.0	.0	.0
Jun	93.0	58.9	76.0	114+	1961	17	80.1	2000	44+	1975	25	71.0	1980	2	331	7.1	21.3	30.0	.0	.0	.0
Jul	97.7	63.0	80.4	115+	1960	21	84.7	1988	49	1973	21	75.8	1987	0	476	13.4	28.7	31.0	.0	.0	.0
Aug	96.3	62.5	79.4	112	1950	20	83.2	1998	49+	1980	30	75.3	1976	0	446	9.6	26.7	31.0	.0	.0	.0
Sep	91.1	58.6	74.9	109+	1955	5	78.8	1991	38	1948	26	69.9	1986	3	298	3.1	18.7	30.0	.0	.0	.0
Oct	81.3	50.8	66.1	105	1980	5	70.3	1991	27	1971	29	61.4	1971	79	111	.3	5.2	31.0	.0	.2	.0
Nov	65.2	41.4	53.3	89	1949	7	58.6	1995	21	1948	27	49.0	1994	354	3	.0	.0	29.5	.0	3.9	.0
Dec	54.3	36.2	45.3	78	1977	22	51.8	1977	17+	1990	23	40.6	1972	612	0	.0	.0	24.2	.0	11.1	.0
Ann	77.1	49.6	63.3	115+	Jul 1960	21	84.7	Jul 1988	14	Jan 1960	2	39.4	Jan 1972	2507	1909	35.2	112.9	349.8	.0	27.1	.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](http://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: 1948-2001

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

048-A

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**Climate Division: CA 5**

**NWS Call Sign:**

**Elevation: 200 Feet Lat: 36°06N**

**Lon: 119°35W**

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	1.51	1.33	1.93	1969	20	4.17+	1995	.00	1976	6.8	4.4	.9	.2	.03	.12	.30	.51	.75	1.04	1.38	1.83	2.46	3.52	4.59
Feb	1.55	1.11	1.77	1978	10	4.54	1998	.02	1977	6.4	3.9	.7	.1	.07	.15	.32	.53	.77	1.05	1.40	1.86	2.50	3.61	4.73
Mar	1.43	1.08	1.57	1995	11	5.41	1991	.00	1972	6.5	4.0	.7	.2	.05	.15	.35	.56	.79	1.05	1.36	1.75	2.29	3.20	4.10
Apr	.52	.32	1.08	1982	1	1.97	1988	.00+	1997	3.2	1.6	.2	@	.00	.01	.05	.11	.19	.29	.43	.60	.86	1.33	1.80
May	.24	.01	.83	1971	27	1.38	1998	.00+	1999	1.5	.8	.1	.0	.00	.00	.00	.00	.00	.00	.05	.17	.37	.77	1.20
Jun	.06	.00	.38	1967	5	.41	1998	.00+	1999	.5	.3	.0	.0	.00	.00	.00	.00	.00	.00	.00	.01	.07	.20	.32
Jul	.00	.00	.09	1969	13	.07	1984	.00+	2000	.1	.0	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Aug	.01	.00	.08	1983	19	.08	1983	.00+	2000	.1	.0	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Sep	.24	.01	1.36	1976	29	2.17	1976	.00+	2000	1.1	.5	.2	@	.00	.00	.00	.00	.00	.00	.03	.13	.34	.79	1.31
Oct	.38	.29	1.56	1996	30	2.02	1996	.00+	1999	1.8	1.1	.1	@	.00	.00	.00	.08	.17	.27	.37	.49	.66	.94	1.20
Nov	.74	.58	1.36	1984	16	2.38	1984	.00+	2000	3.9	2.3	.3	.1	.00	.00	.07	.19	.32	.47	.66	.90	1.25	1.82	2.40
Dec	.95	.76	1.40	1977	28	3.28	1977	.00+	1999	5.2	2.8	.4	.1	.00	.06	.21	.35	.51	.69	.91	1.17	1.54	2.16	2.77
Ann	7.63	7.12	1.93	Jan 1969	20	5.41	Mar 1991	.00+	Nov 2000	37.1	21.7	3.6	.7	3.24	3.93	4.89	5.69	6.43	7.18	7.98	8.91	10.08	11.87	13.48

+ 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

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

Complete documentation available from:  
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**Climate Division: CA 5**

**NWS Call Sign:**

**Elevation: 200 Feet**

**Lat: 36°06N**

**Lon: 119°35W**

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	.1	.0	0	0	3.0	1999	25	3.0	1999	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	.1	.0	N/A	N/A	3.0	Jan 1999	25	3.0	Jan 1999	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	4/22	4/10	4/02	3/26	3/20	3/13	3/06	2/26	2/15
32	4/06	3/23	3/13	3/04	2/23	2/15	2/06	1/27	1/13
28	2/12	2/01	1/24	1/16	1/09	1/02	12/26	12/16	11/27
24	1/24	1/12	1/03	12/25	12/14	11/26	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	10/23	10/29	11/02	11/05	11/08	11/11	11/15	11/19	11/24
32	11/05	11/10	11/14	11/17	11/20	11/23	11/27	11/30	12/06
28	11/15	11/23	11/28	12/03	12/08	12/12	12/18	12/24	1/06
24	12/05	12/12	12/18	12/24	12/31	1/11	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	274	259	249	241	233	225	216	206	192
32	320	303	290	279	269	259	249	236	218
28	>365	>365	355	338	327	317	308	297	283
24	>365	>365	>365	>365	>365	>365	365	339	320
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:

[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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**Lat: 36°06N**

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**Degree Days to Selected Base Temperatures (°F)**

<b>Base</b>	<b>Heating Degree Days (1)</b>												
<b>Below</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Ann</b>
<b>65</b>	587	377	288	155	50	2	0	0	3	79	354	612	2507
<b>60</b>	435	240	163	75	16	0	0	0	0	28	219	457	1633
<b>57</b>	349	165	106	41	7	0	0	0	0	12	150	369	1199
<b>55</b>	293	121	75	26	4	0	0	0	0	6	110	311	946
<b>50</b>	174	44	22	7	0	0	0	0	0	1	42	181	471
<b>32</b>	4	0	0	0	0	0	0	0	0	0	0	3	7

<b>Base</b>	<b>Cooling Degree Days (1)</b>												
<b>Above</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Ann</b>
<b>32</b>	439	547	746	891	1151	1319	1499	1469	1285	1055	639	414	11454
<b>55</b>	16	24	108	226	442	629	786	756	595	349	59	9	3999
<b>57</b>	9	12	77	182	383	569	724	694	535	292	38	5	3520
<b>60</b>	3	3	41	126	299	479	631	601	445	215	17	0	2860
<b>65</b>	0	0	11	55	178	331	476	446	298	111	3	0	1909
<b>70</b>	0	0	2	18	89	192	321	291	164	45	0	0	1122

**Growing Degree Units (2)**

<b>Base</b>	<b>Growing Degree Units (Monthly)</b>												<b>Growing Degree Units (Accumulated Monthly)</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>40</b>	211	349	507	657	909	1087	1256	1218	1035	801	400	189	211	560	1067	1724	2633	3720	4976	6194	7229	8030	8430	8619
<b>45</b>	100	208	354	507	754	937	1101	1063	885	646	254	80	100	308	662	1169	1923	2860	3961	5024	5909	6555	6809	6889
<b>50</b>	39	96	208	358	599	787	946	908	735	491	135	28	39	135	343	701	1300	2087	3033	3941	4676	5167	5302	5330
<b>55</b>	4	25	90	217	445	637	791	753	585	340	48	0	4	29	119	336	781	1418	2209	2962	3547	3887	3935	3935
<b>60</b>	0	0	22	106	295	487	636	598	435	201	8	0	0	0	22	128	423	910	1546	2144	2579	2780	2788	2788
<b>Base</b>	<b>Growing Degree Units for Corn (Monthly)</b>												<b>Growing Degree Units for Corn (Accumulated Monthly)</b>											
<b>50/86</b>	104	197	300	412	566	665	761	745	647	507	247	103	104	301	601	1013	1579	2244	3005	3750	4397	4904	5151	5254

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)