

Climatology of the United States

No. 20

1971-2000

Station: VISALIA, CA

COOP ID: 049367

Climate Division: CA 5

NWS Call Sign:

Elevation: 325 Feet Lat: 36° 20N Lon: 119° 18W

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	54.2	37.4	45.8	79	1986	29	51.5	1986	20+	1949	11	39.0	1972	596	0	.0	.0	22.5	.0	5.0	.0
Feb	61.7	41.1	51.4	87	1930	18	55.3	1992	24	1972	1	46.1	1971	381	0	.0	.0	27.1	.0	1.0	.0
Mar	66.8	44.9	55.9	90+	1960	22	60.1	1997	27	1953	2	50.5	1973	295	11	.0	.0	30.8	.0	.3	.0
Apr	73.7	48.1	60.9	99	1931	21	66.4	1992	32+	1933	10	54.2	1975	171	46	.0	.6	30.0	.0	.0	.0
May	81.6	54.0	67.8	108	1951	27	74.4	1992	37	1971	5	60.9	1977	63	149	.4	6.5	31.0	.0	.0	.0
Jun	89.2	60.1	74.7	111+	1961	22	78.6	1981	42	1977	13	70.1	1980	2	292	2.9	16.4	30.0	.0	.0	.0
Jul	93.8	64.8	79.3	115	1931	26	83.7	1988	50	1954	10	75.0	1983	0	443	6.1	25.3	31.0	.0	.0	.0
Aug	92.2	63.6	77.9	115	1933	12	81.4	1996	49+	1960	23	72.3	1976	0	400	4.0	23.5	31.0	.0	.0	.0
Sep	86.9	59.3	73.1	110	1950	3	77.4	1984	39	1950	30	66.8	1986	8	251	1.0	13.1	30.0	.0	.0	.0
Oct	78.0	51.8	64.9	104	1933	4	70.5	1991	31	1935	31	60.0	1984	93	90	.0	3.1	31.0	.0	.1	.0
Nov	63.7	42.2	53.0	94	1949	6	59.1	1995	26	1931	24	48.3	1994	364	3	.0	.0	29.5	.0	.6	.0
Dec	54.2	36.2	45.2	80+	1939	10	50.8	1995	21+	1990	24	40.7	1972	615	0	.0	.0	22.9	.0	6.4	.0
Ann	74.7	50.3	62.5	115+	Aug 1933	12	83.7	Jul 1988	20+	Jan 1949	11	39.0	Jan 1972	2588	1685	14.4	88.5	346.8	.0	13.4	.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: 1927-2001

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

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: VISALIA, CA

COOP ID: 049367

Climate Division: CA 5

NWS Call Sign:

Elevation: 325 Feet Lat: 36°20N

Lon: 119°18W

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	2.03	1.91	3.22	1940	11	4.99	1995	.00	1976	7.4	5.1	1.4	.2	.05	.19	.46	.75	1.07	1.45	1.90	2.48	3.28	4.64	5.99
Feb	1.95	1.52	2.19	1978	10	4.87	1978	.10	1977	7.1	4.8	1.1	.2	.12	.23	.47	.74	1.04	1.39	1.82	2.36	3.13	4.43	5.72
Mar	2.15	1.58	1.60	1995	23	7.43	1991	.00	1972	7.3	4.9	1.3	.3	.08	.26	.57	.88	1.22	1.61	2.06	2.64	3.43	4.75	6.05
Apr	.80	.70	1.37	1948	29	2.24	1988	.00+	1997	3.6	2.0	.5	.1	.00	.00	.07	.19	.33	.50	.70	.97	1.35	1.99	2.64
May	.37	.08	1.25	1971	27	2.23	1971	.00+	1999	1.7	1.0	.2	@	.00	.00	.00	.00	.00	.07	.20	.38	.65	1.15	1.66
Jun	.14	.00	.95	2000	9	1.25	1998	.00+	1999	.5	.3	.1	.0	.00	.00	.00	.00	.00	.00	.00	.00	.11	.48	.91
Jul	.01	.00	.25	1982	1	.25	1982	.00+	2000	.1	@	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Aug	.02	.00	.19	1961	23	.13	1977	.00+	1999	.3	.1	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Sep	.25	.00	1.40	1976	30	1.53	1976	.00+	2000	.8	.5	.1	@	.00	.00	.00	.00	.00	.00	.03	.17	.41	.86	1.32
Oct	.65	.33	3.70	1974	29	4.67	1974	.00+	1999	2.0	1.4	.4	.1	.00	.00	.00	.06	.18	.33	.52	.77	1.13	1.77	2.40
Nov	1.17	.95	1.73	1970	26	3.56	1985	.00+	2000	4.6	3.2	.7	.1	.00	.00	.25	.45	.65	.87	1.14	1.47	1.90	2.63	3.34
Dec	1.49	1.26	2.41	2001	29	3.88	1996	.00+	1999	5.6	3.7	1.0	.2	.00	.21	.50	.74	.98	1.24	1.53	1.86	2.33	3.08	3.79
Ann	11.03	10.46	3.70	Oct 1974	29	7.43	Mar 1991	.00+	Nov 2000	41.0	27.0	6.8	1.2	5.32	6.27	7.56	8.61	9.57	10.54	11.57	12.74	14.21	16.42	18.41

+ 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: 1927-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: VISALIA, CA

COOP ID: 049367

Climate Division: CA 5

NWS Call Sign:

Elevation: 325 Feet

Lat: 36°20N

Lon: 119°18W

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	2.0	1999	25	2.0	1999	2	1999	25	#	1999	@	@	.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	2.0	Jan 1999	25	2.0	Jan 1999	2	Jan 1999	25	#	Jan 1999	@	@	.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	4/05	3/24	3/16	3/09	3/02	2/24	2/17	2/08	1/28
32	3/02	2/18	2/10	2/03	1/28	1/21	1/14	1/05	12/22
28	2/05	1/23	1/14	1/04	12/24	12/05	0/00	0/00	0/00
24	12/31	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	11/04	11/09	11/13	11/17	11/20	11/24	11/27	12/01	12/07
32	11/12	11/20	11/26	12/01	12/06	12/10	12/15	12/22	12/31
28	12/07	12/17	12/25	1/02	1/12	0/00	0/00	0/00	0/00
24	1/10	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	302	289	279	270	262	254	246	236	222
32	363	340	327	318	309	301	292	281	267
28	>365	>365	>365	>365	>365	>365	>365	334	315
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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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	596	381	295	171	63	2	0	0	8	93	364	615	2588
60	445	244	170	86	21	0	0	0	1	34	227	460	1688
57	359	169	113	49	9	0	0	0	0	15	157	369	1240
55	303	125	81	31	5	0	0	0	0	8	117	312	982
50	184	47	26	9	0	0	0	0	0	1	45	180	492
32	6	0	0	0	0	0	0	0	0	0	0	2	8

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	433	543	739	866	1110	1279	1466	1423	1233	1020	628	410	11150
55	17	25	108	207	402	589	753	710	543	315	55	7	3731
57	11	12	77	164	344	529	691	648	483	260	36	3	3258
60	4	4	41	112	263	439	598	555	394	186	16	0	2612
65	0	0	11	46	149	292	443	400	251	90	3	0	1685
70	0	0	2	14	69	157	288	248	131	33	0	0	942

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	213	356	512	651	895	1075	1252	1206	1023	800	415	198	213	569	1081	1732	2627	3702	4954	6160	7183	7983	8398	8596
45	102	218	357	501	740	925	1097	1051	873	645	268	85	102	320	677	1178	1918	2843	3940	4991	5864	6509	6777	6862
50	38	103	212	351	585	775	942	896	723	490	142	26	38	141	353	704	1289	2064	3006	3902	4625	5115	5257	5283
55	5	38	98	218	430	625	787	741	573	337	56	0	5	43	141	359	789	1414	2201	2942	3515	3852	3908	3908
60	0	3	31	109	283	475	632	586	423	200	12	0	0	3	34	143	426	901	1533	2119	2542	2742	2754	2754
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	99	185	278	392	563	691	804	776	665	503	227	99	99	284	562	954	1517	2208	3012	3788	4453	4956	5183	5282

(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.

- 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/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