

Climatology of the United States

No. 20

1971-2000

Station: SUSANVILLE 2 SW, CA

COOP ID: 048702

Climate Division: CA 3

NWS Call Sign:

Elevation: 4,184 Feet Lat: 40° 25N

Lon: 120° 40W

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	40.8	20.8	30.8	67	1953	31	38.3	1986	-22	1952	18	19.2	1993	1060	0	.0	.0	4.8	5.0	28.2	1.2
Feb	46.5	25.5	36.0	69	1977	17	42.8	1995	-23	1956	1	26.3	1989	813	0	.0	.0	10.3	1.6	23.4	.5
Mar	53.5	29.2	41.4	81	1966	30	47.0	1986	-4	1952	21	37.2	1985	734	0	.0	.0	20.6	.1	22.3	.0
Apr	61.1	32.9	47.0	90	1931	21	54.1	1990	13+	1963	22	39.1	1975	541	1	.0	.0	26.2	.1	15.7	.0
May	70.1	38.7	54.4	96+	1986	31	61.6	1992	20+	1968	6	47.7	1977	339	10	.0	.6	30.0	.0	5.2	.0
Jun	79.7	45.7	62.7	101+	1985	19	67.8	1977	25	1952	12	58.0	1993	127	58	.1	5.6	30.0	.0	.8	.0
Jul	88.4	49.8	69.1	106+	1931	20	74.2	1988	30	1976	1	62.2	1993	37	164	.7	14.9	31.0	.0	@	.0
Aug	87.3	48.7	68.0	105+	1990	7	72.0	1998	31+	1993	25	60.4	1976	39	132	.8	12.8	31.0	.0	.1	.0
Sep	78.4	41.8	60.1	101	1950	2	63.4	1987	18	1950	30	54.1	1986	172	25	.0	2.9	29.9	.0	2.7	.0
Oct	65.9	33.7	49.8	90+	1973	4	55.8	1988	14+	1949	18	45.6	1981	473	0	.0	.1	29.2	.0	14.6	.0
Nov	50.7	26.9	38.8	74+	1965	1	44.8	1995	-1	1985	13	31.5	1993	787	0	.0	.0	15.9	.4	23.7	.1
Dec	41.8	20.7	31.3	63+	1979	4	38.2	1981	-22	1972	9	24.1	1990	1046	0	.0	.0	4.8	3.8	27.9	1.1
Ann	63.7	34.5	49.1	106+	1931	20	74.2	1988	-23	1956	1	19.2	1993	6168	390	1.6	36.9	263.7	11.0	164.6	2.9

+ 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: 1931-2001

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

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Lon: 120°40W

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	2.36	1.83	2.40	1993	7	9.48	1993	.08	1994	8.3	5.6	1.6	.4	.14	.28	.57	.89	1.25	1.68	2.19	2.85	3.78	5.36	6.93
Feb	2.06	1.42	2.18	1940	27	7.51	1986	.12	1971	8.6	4.2	1.2	.4	.19	.33	.61	.89	1.21	1.56	1.98	2.51	3.23	4.44	5.63
Mar	1.53	1.02	2.16	1971	12	3.93	1974	.09	1990	8.2	4.0	.8	.2	.18	.30	.51	.73	.95	1.21	1.50	1.87	2.37	3.19	3.98
Apr	.57	.43	1.05	1951	16	1.78	1982	.00	1973	6.0	2.5	.3	.1	.02	.06	.13	.21	.31	.41	.54	.70	.92	1.29	1.66
May	.88	.76	1.41	1987	17	3.35	1971	.00	1984	5.1	2.5	.4	@	.02	.08	.20	.33	.47	.63	.82	1.07	1.42	2.00	2.57
Jun	.45	.34	1.44	1958	13	1.88	1977	.00+	1985	3.5	1.6	.2	@	.00	.04	.11	.18	.26	.34	.44	.56	.73	1.01	1.28
Jul	.28	.13	1.40	1979	22	1.49	1979	.00+	1999	2.0	.8	.2	.1	.00	.00	.01	.05	.10	.16	.24	.34	.49	.74	1.00
Aug	.19	.08	.70	1965	11	1.67	1976	.00+	2000	1.8	.8	.0	.0	.00	.00	.00	.00	.03	.07	.13	.22	.34	.56	.78
Sep	.49	.31	.82	1986	27	2.41	1982	.00+	1995	3.1	1.5	.2	.0	.00	.00	.04	.12	.20	.31	.43	.60	.83	1.22	1.61
Oct	1.00	.87	4.70	1962	13	3.05	1982	.00+	1998	4.5	2.3	.5	.1	.00	.00	.11	.24	.41	.61	.87	1.20	1.67	2.50	3.33
Nov	1.65	.90	3.05	1988	23	6.99	1981	.02	1992	7.2	3.7	.9	.3	.05	.12	.28	.49	.74	1.05	1.44	1.95	2.68	3.97	5.28
Dec	1.98	1.39	3.65	1937	10	8.36	1996	.00+	2000	7.5	4.1	1.1	.5	.00	.00	.29	.60	.94	1.34	1.82	2.44	3.29	4.74	6.19
Ann	13.44	12.95	4.70	Oct 1962	13	9.48	Jan 1993	.00+	Dec 2000	65.8	33.6	7.4	2.1	6.27	7.44	9.06	10.37	11.58	12.80	14.10	15.58	17.45	20.26	22.80

+ 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: 1931-2001

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

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NWS Call Sign:

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Lat: 40° 25N

Lon: 120° 40W

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	7.3	4.9	1	0	8.0	1993	13	26.0	1988	12	1973	10	5	1972	2.8	2.6	1.3	.4	.0	4.4	3.2	1.6	.3
Feb	1.8	.6	1	0	8.5	1990	16	8.5+	1990	22	1975	5	8	1975	1.1	.8	.2	.1	.0	3.0	2.3	1.0	.6
Mar	2.6	.0	#	0	10.0	1974	1	17.0	1974	10+	1974	4	2	1974	1.0	1.0	.3	.1	.1	.9	.5	.4	.1
Apr	.4	.0	#	0	6.0	1983	25	6.0	1983	9	1982	1	1	1982	.2	.1	.1	.1	.0	.3	.2	.1	.0
May	.1	.0	#	0	2.0	1989	29	2.0	1989	#	1975	4	#	1993	.1	.1	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	#	1993	2	#	1993	.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	#	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.1	.0	0	0	2.0	1986	27	2.0	1986	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	3.0	1984	17	3.0	1984	1	1984	17	#	1984	.1	.1	.1	.0	.0	@	.0	.0	.0
Nov	1.3	.0	#	0	8.0	1985	10	8.0	1985	9	1985	11	1	1985	.7	.4	.3	.2	.0	.7	.4	.2	.0
Dec	4.9	1.0	1	0	11.0	1983	24	21.0	1983	16	1983	24	3	1971	1.7	1.6	.6	.3	.1	2.4	2.1	1.3	.5
Ann	18.7	6.5	N/A	N/A	11.0	Dec 1983	24	26.0	Jan 1988	22	Feb 1975	5	8	Feb 1975	7.8	6.8	2.9	1.2	.2	11.7	8.7	4.6	1.5

+ 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	7/17	7/08	7/02	6/26	6/21	6/16	6/10	6/04	5/26
32	6/17	6/11	6/06	6/01	5/29	5/25	5/20	5/15	5/09
28	6/01	5/25	5/19	5/15	5/10	5/06	5/02	4/26	4/19
24	5/06	4/30	4/26	4/22	4/19	4/15	4/12	4/07	4/02
20	4/24	4/14	4/07	4/01	3/26	3/20	3/13	3/06	2/24
16	3/27	3/17	3/10	3/05	2/27	2/22	2/16	2/09	1/30
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	8/16	8/23	8/28	9/01	9/05	9/09	9/14	9/19	9/26
32	9/04	9/10	9/14	9/18	9/21	9/25	9/28	10/02	10/08
28	9/18	9/24	9/29	10/02	10/06	10/09	10/13	10/18	10/24
24	10/01	10/08	10/12	10/16	10/20	10/24	10/28	11/01	11/08
20	10/16	10/23	10/28	11/01	11/04	11/08	11/12	11/17	11/23
16	10/30	11/06	11/11	11/15	11/19	11/23	11/27	12/02	12/09
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	113	100	91	83	76	68	60	51	38
32	149	137	129	122	115	108	101	92	81
28	181	169	161	154	148	141	134	126	115
24	206	199	193	188	184	179	174	169	161
20	259	247	238	230	223	216	208	199	187
16	303	289	280	272	264	257	249	239	226

* 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)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below													
65	1060	813	734	541	339	127	37	39	172	473	787	1046	6168
60	905	673	579	398	210	54	9	8	78	324	637	891	4766
57	812	589	486	317	148	27	2	2	41	243	547	798	4012
55	750	533	425	266	113	16	0	0	25	194	489	736	3547
50	600	401	282	160	49	3	0	0	4	98	349	582	2528
32	168	65	11	4	0	0	0	0	0	1	37	143	429

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above													
32	131	177	301	453	694	921	1150	1116	843	551	240	120	6697
55	0	0	1	26	94	246	437	403	177	32	2	0	1418
57	0	0	0	17	67	198	377	342	134	19	0	0	1154
60	0	0	0	8	36	135	291	256	80	7	0	0	813
65	0	0	0	1	10	58	164	132	25	0	0	0	390
70	0	0	0	0	1	17	76	51	4	0	0	0	149

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	6	37	105	230	455	696	902	871	607	324	70	13	6	43	148	378	833	1529	2431	3302	3909	4233	4303	4316
45	0	3	35	123	306	547	747	716	459	194	24	2	0	3	38	161	467	1014	1761	2477	2936	3130	3154	3156
50	0	0	4	53	180	401	592	561	314	97	3	0	0	0	4	57	237	638	1230	1791	2105	2202	2205	2205
55	0	0	0	15	90	262	437	408	186	34	0	0	0	0	0	15	105	367	804	1212	1398	1432	1432	1432
60	0	0	0	0	35	142	286	256	84	7	0	0	0	0	0	0	35	177	463	719	803	810	810	810
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	7	33	90	186	320	456	569	558	429	267	69	10	7	40	130	316	636	1092	1661	2219	2648	2915	2984	2994

(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/normal/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 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/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