

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: WEAVERVILLE, CA

1971-2000

COOP ID: 049490

Climate Division: CA 1

NWS Call Sign:

Elevation: 2,040 Feet Lat: 40°44N

Lon: 122°56W

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	49.0	27.7	38.4	69	1963	7	42.2	1986	-7	1950	15	34.3	1982	826	0	.0	.0	12.8	.1	22.8	.0
Feb	54.6	29.2	41.9	79	1991	25	47.1+	1995	0	1950	2	36.9	1989	648	0	.0	.0	20.7	.2	17.7	.0
Mar	59.8	31.5	45.7	84	1960	25	49.6	1986	12	1955	5	41.4	1991	599	0	.0	.0	26.4	.0	19.2	.0
Apr	67.4	33.4	50.4	94+	1987	27	57.4	1987	19+	1991	11	43.8	1975	441	3	.0	.4	29.0	.0	12.2	.0
May	76.9	39.7	58.3	106+	1986	31	65.0	1992	22+	1964	6	52.5	1977	233	25	.2	3.9	31.0	.0	4.3	.0
Jun	85.8	45.6	65.7	110	1987	26	70.8	1977	28+	1966	3	59.9	1980	79	100	1.9	10.7	30.0	.0	.3	.0
Jul	94.2	49.9	72.1	112+	1988	21	76.7+	1996	32+	1955	6	66.8	1993	17	235	7.7	22.0	31.0	.0	.0	.0
Aug	94.3	48.4	71.4	115	1981	9	75.9	1986	34+	1972	17	67.0	1976	10	207	8.3	22.6	31.0	.0	.0	.0
Sep	87.8	42.4	65.1	111+	1988	5	69.0	1991	23	1950	30	59.7	1982	79	82	2.7	14.6	30.0	.0	1.0	.0
Oct	75.4	35.5	55.5	104	1980	3	62.1	1987	14	1971	29	51.0	1984	307	12	.2	3.1	30.7	.0	10.2	.0
Nov	55.8	32.6	44.2	89	1949	3	51.0	1995	4	1985	13	35.5	1994	623	0	.0	.0	23.9	@	14.9	.0
Dec	47.0	27.6	37.3	69	1962	15	41.6	1995	-10	1972	9	30.0	1972	859	0	.0	.0	12.3	.3	23.1	.2
Ann	70.7	37.0	53.8	115	Aug 1981	9	76.7+	Jul 1996	-10	Dec 1972	9	30.0	Dec 1972	4721	664	21.0	77.3	308.8	.6	125.7	.2

+ 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: 1948-2001

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

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NWS Call Sign:

Elevation: 2,040 Feet Lat: 40° 44N

Lon: 122° 56W

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	7.08	6.50	5.50	1982	4	20.82	1995	.56	1985	9.4	6.8	3.2	1.3	1.10	1.70	2.73	3.71	4.72	5.83	7.10	8.65	10.73	14.11	17.35
Feb	6.05	5.30	4.16	1982	16	15.17	1998	.17	1988	9.3	7.2	3.1	1.4	.78	1.26	2.12	2.96	3.85	4.84	5.98	7.39	9.30	12.43	15.46
Mar	5.49	3.90	3.12	1975	18	14.86	1983	.50	1994	10.0	7.3	2.8	1.3	.82	1.28	2.07	2.83	3.62	4.49	5.49	6.71	8.35	11.02	13.58
Apr	2.25	2.26	2.20	1974	1	4.71	1978	.16	1987	7.8	4.7	1.3	.2	.41	.61	.94	1.25	1.56	1.90	2.28	2.74	3.36	4.35	5.30
May	1.31	.89	2.11	1990	27	6.91	1990	.00	1982	4.4	2.6	.6	.1	.05	.15	.33	.52	.73	.97	1.25	1.61	2.10	2.92	3.73
Jun	.58	.22	1.67	1993	1	2.28	1993	.00+	1986	2.4	1.5	.2	.1	.00	.00	.03	.09	.19	.31	.46	.67	.98	1.53	2.09
Jul	.23	.10	.70	1974	9	1.24	1974	.00+	1999	1.7	.6	.2	.0	.00	.00	.00	.00	.03	.10	.17	.27	.42	.66	.91
Aug	.27	.03	1.30	1962	9	2.86	1976	.00+	2000	1.9	.9	.1	@	.00	.00	.00	.00	.00	.04	.12	.24	.44	.84	1.27
Sep	1.05	.60	2.01	1978	5	4.57	1986	.00+	1998	3.1	2.0	.7	.2	.00	.00	.00	.07	.22	.43	.73	1.15	1.79	2.96	4.19
Oct	2.34	1.90	3.95	1950	28	7.11	1975	.00+	1995	5.6	3.4	1.5	.4	.00	.21	.60	.97	1.36	1.79	2.30	2.91	3.75	5.14	6.50
Nov	5.47	4.55	2.60	1962	26	16.89	1984	.47	1995	9.3	6.5	3.2	1.2	.54	.93	1.68	2.44	3.27	4.20	5.30	6.67	8.56	11.69	14.75
Dec	6.29	5.17	3.96	1964	22	21.04	1996	.00	1989	9.0	6.8	3.0	1.3	.40	1.02	2.01	2.93	3.91	4.98	6.23	7.76	9.84	13.25	16.55
Ann	38.41	35.87	5.50	Jan 1982	4	21.04	Dec 1996	.00+	Aug 2000	73.9	50.3	19.9	7.5	19.63	22.82	27.14	30.59	33.76	36.92	40.27	44.07	48.81	55.92	62.26

+ 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

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Station: WEAVERVILLE, CA

COOP ID: 049490

Climate Division: CA 1

NWS Call Sign:

Elevation: 2,040 Feet

Lat: 40° 44N

Lon: 122° 56W

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	1.6	.0	#	0	14.0	1982	4	16.0	1982	9	1971	14	1	1972	.8	.6	.3	.2	.1	.4	.2	.1	.0
Feb	.8	.0	#	0	7.5	1975	5	7.5	1975	2+	1999	9	1	1999	.8	.5	.2	.1	.0	.2	.0	.0	.0
Mar	1.0	.0	#	0	14.5	1985	26	14.5	1985	17	1985	27	2	1985	.8	.6	.1	.1	.1	.3	.2	.1	.1
Apr	.2	.0	#	0	2.5	1975	5	2.5	1975	3	1975	5	#+	1999	.2	.1	.0	.0	.0	.1	@	.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	#	1971	31	#	1971	#	1971	30	#	1971	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	2.0	1998	30	2.0+	2000	4	1978	13	#+	2000	.1	.1	.0	.0	.0	.1	.0	.0	.0
Dec	2.4	.0	#	0	8.0	1998	20	17.0	1998	14	1972	7	4	1972	1.0	.8	.5	.2	.0	.3	.1	.1	.0
Ann	6.3	.0	N/A	N/A	14.5	Mar 1985	26	17.0	Dec 1998	17	Mar 1985	27	4	Dec 1972	3.7	2.7	1.1	.6	.2	1.4	.5	.3	.1

+ 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 1

NWS Call Sign:

Elevation: 2,040 Feet

Lat: 40° 44N

Lon: 122° 56W

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	6/30	6/24	6/19	6/15	6/11	6/07	6/03	5/29	5/23
32	6/10	6/03	5/29	5/25	5/21	5/16	5/12	5/07	4/30
28	5/20	5/12	5/07	5/03	4/28	4/24	4/19	4/14	4/07
24	5/05	4/23	4/15	4/08	4/01	3/26	3/19	3/10	2/27
20	4/17	3/30	3/17	3/06	2/23	2/12	1/31	1/16	12/18
16	2/28	2/14	2/03	1/24	1/14	1/03	12/20	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	8/30	9/06	9/11	9/15	9/18	9/22	9/26	10/01	10/07
32	9/19	9/25	9/29	10/03	10/06	10/09	10/13	10/17	10/23
28	10/02	10/08	10/13	10/17	10/21	10/25	10/29	11/03	11/10
24	10/13	10/22	10/29	11/03	11/08	11/14	11/19	11/26	12/05
20	10/26	11/08	11/17	11/26	12/03	12/11	12/20	12/31	1/21
16	11/13	11/28	12/09	12/20	12/30	1/12	1/30	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	129	118	111	104	99	93	86	79	68
32	166	156	149	143	138	132	126	119	110
28	207	196	188	182	175	169	162	154	143
24	260	247	237	228	221	213	204	194	181
20	>365	>365	321	300	284	270	256	240	219
16	>365	>365	>365	>365	>365	338	319	302	281

* 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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COOP ID: 049490

Climate Division: CA 1 NWS Call Sign: Elevation: 2,040 Feet Lat: 40° 44N Lon: 122° 56W

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	826	648	599	441	233	79	17	10	79	307	623	859	4721
60	671	508	445	304	128	26	3	0	26	184	474	704	3473
57	578	424	355	229	81	11	0	0	10	124	387	611	2810
55	516	368	298	186	57	6	0	0	5	92	331	549	2408
50	362	236	169	99	18	0	0	0	0	36	205	397	1522
32	10	5	0	0	0	0	0	0	0	0	5	31	51

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	207	281	424	552	815	1011	1241	1220	993	727	372	195	8038
55	0	0	9	48	159	326	528	507	308	106	8	0	1999
57	0	0	4	31	121	272	466	445	253	77	4	0	1673
60	0	0	1	16	75	197	376	353	179	43	1	0	1241
65	0	0	0	3	25	100	235	207	82	12	0	0	664
70	0	0	0	0	6	37	124	93	25	2	0	0	287

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	45	117	192	346	571	766	990	981	755	479	159	45	45	162	354	700	1271	2037	3027	4008	4763	5242	5401	5446
45	4	44	87	212	418	616	835	826	606	328	67	6	4	48	135	347	765	1381	2216	3042	3648	3976	4043	4049
50	0	11	29	114	274	467	680	671	457	201	17	0	0	11	40	154	428	895	1575	2246	2703	2904	2921	2921
55	0	0	0	50	159	323	525	516	309	92	0	0	0	0	0	50	209	532	1057	1573	1882	1974	1974	1974
60	0	0	0	19	73	195	371	365	181	31	0	0	0	0	0	19	92	287	658	1023	1204	1235	1235	1235
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	33	103	169	273	402	490	578	568	492	378	114	34	33	136	305	578	980	1470	2048	2616	3108	3486	3600	3634

(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