

Climatology of the United States

No. 20

1971-2000

Station: ELSINORE, CA

COOP ID: 042805

Climate Division: CA 6

NWS Call Sign:

Elevation: 1,285 Feet Lat: 33°40N

Lon: 117°20W

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	66.1	38.3	52.2	91	1996	12	57.2	1986	15	1963	14	48.0	1973	398	0	.0	@	30.8	.0	5.4	.0
Feb	68.2	40.2	54.2	93	1977	19	61.4	1995	19	1965	12	50.4	1975	305	4	.0	.4	27.9	@	3.1	.0
Mar	71.1	42.8	57.0	95+	1997	19	62.2	1997	24	1971	1	51.0	1973	263	13	.0	.5	31.0	.0	1.3	.0
Apr	77.4	45.7	61.6	103	1989	5	66.9	1989	24	1955	5	52.9	1975	163	58	.1	3.4	30.0	.0	.3	.0
May	82.6	51.3	67.0	106	2001	22	75.1	1997	32	1953	25	61.4	1977	73	134	1.0	7.7	31.0	.0	.0	.0
Jun	91.3	55.8	73.6	112	1990	26	79.5	1981	37	1967	2	68.6	1982	10	267	5.5	18.5	30.0	.0	.0	.0
Jul	98.1	61.0	79.6	115	1960	17	84.3	1984	35	1965	30	74.6	1987	0	451	13.7	28.2	31.0	.0	.0	.0
Aug	98.3	62.0	80.2	115+	1997	5	85.1	1994	40	1962	4	77.0	1989	0	469	13.4	28.0	31.0	.0	.0	.0
Sep	92.9	58.4	75.7	114+	1971	12	80.7	1984	35	1964	15	69.0	1986	8	327	7.4	19.9	30.0	.0	.0	.0
Oct	83.7	50.8	67.3	110	1950	13	71.9	1995	25	1971	30	60.1	1971	63	133	1.2	8.9	31.0	.0	.1	.0
Nov	73.1	42.2	57.7	96	1980	4	65.0	1995	22+	1981	20	53.3	1973	236	15	.0	1.2	30.0	.0	1.6	.0
Dec	66.8	37.3	52.1	90+	1958	3	58.3	1977	10	1974	30	45.6	1971	405	3	.0	.0	30.6	.0	6.8	.0
Ann	80.8	48.8	64.9	115+	Aug 1997	5	85.1	Aug 1994	10	Dec 1974	30	45.6	Dec 1971	1924	1874	42.3	116.7	364.3	@	18.6	.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: 1948-2001

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

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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	Median	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	2.80	1.72	4.39	1979	5	13.94	1993	.00+	1976	6.2	4.5	1.6	.7	.00	.07	.38	.75	1.20	1.76	2.45	3.35	4.64	6.88	9.15	
Feb	2.96	1.93	4.00	1978	28	11.94	1998	.00	1984	5.7	4.3	2.2	.9	.03	.16	.48	.87	1.34	1.90	2.61	3.54	4.87	7.17	9.50	
Mar	2.29	1.64	4.80	1978	1	9.83	1978	.00+	1997	5.9	4.1	1.4	.5	.00	.05	.29	.59	.96	1.41	1.98	2.73	3.81	5.69	7.59	
Apr	.56	.29	1.76	1975	8	2.42	1983	.00+	1997	2.5	1.5	.2	@	.00	.00	.00	.03	.14	.27	.45	.67	.99	1.56	2.12	
May	.22	.05	1.05	1977	9	2.02	1977	.00+	2000	1.1	.5	.2	@	.00	.00	.00	.00	.00	.03	.10	.20	.37	.68	1.02	
Jun	.02	.00	.32	1972	21	.32	1972	.00+	2000	.2	.2	@	.0	**	**	**	**	**	**	**	**	**	**	**	
Jul	.10	.00	1.25	1984	15	1.67	1984	.00+	2000	.4	.2	@	@	.00	.00	.00	.00	.00	.00	.00	.00	.03	.30	.66	
Aug	.12	.00	1.85	1977	16	3.13	1977	.00+	1999	.3	.2	.1	@	**	**	**	**	**	**	**	**	**	**	**	
Sep	.30	.00	1.37	1976	10	4.26	1976	.00+	2000	.9	.5	.2	.1	.00	.00	.00	.00	.00	.00	.00	.07	.33	.98	1.73	
Oct	.36	.18	.95	1987	12	3.65	1987	.00+	1999	1.7	1.0	.2	.0	.00	.00	.00	.00	.02	.11	.23	.40	.65	1.08	1.53	
Nov	.78	.58	3.11	1965	23	3.28	1982	.00+	1999	2.5	1.8	.5	.1	.00	.00	.00	.07	.26	.46	.69	.98	1.37	2.05	2.70	
Dec	1.58	.78	2.19	1966	3	4.81	1971	.00	2000	4.1	3.1	1.2	.3	.01	.06	.21	.40	.65	.95	1.34	1.86	2.62	3.95	5.31	
Ann	12.09	8.95	4.80	Mar 1978	1	13.94	Jan 1993	.00+	Dec 2000	31.5	21.9	7.8	2.6	3.25	4.40	6.14	7.67	9.18	10.76	12.51	14.58	17.29	21.52	25.48	

+ 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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Lon: 117° 20W

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	0	.0	0	0	.0	0	0	0	0	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	#	1985	12	#	1985	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.0	0	0	.0	0	#	1993	14	#	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#	Nov 1985	12	#	Nov 1985	#	Dec 1993	14	#	Dec 1993	.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	5/01	4/19	4/12	4/05	3/29	3/23	3/16	3/08	2/25
32	4/13	4/01	3/23	3/16	3/09	3/02	2/23	2/14	2/03
28	2/25	2/10	1/30	1/20	1/10	12/30	12/12	0/00	0/00
24	2/07	1/16	12/22	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	11/01	11/06	11/10	11/13	11/16	11/19	11/23	11/26	12/02
32	11/05	11/13	11/19	11/25	11/30	12/04	12/10	12/16	12/24
28	11/21	12/02	12/10	12/17	12/25	1/04	1/21	0/00	0/00
24	12/08	1/03	2/05	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	271	257	247	239	231	224	215	205	192
32	304	290	281	272	265	257	248	239	225
28	>365	>365	>365	>365	>365	>365	335	312	287
24	>365	>365	>365	>365	>365	>365	>365	>365	319
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

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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	398	305	263	163	73	10	0	0	8	63	236	405	1924
60	250	181	144	82	25	1	0	0	1	20	125	263	1092
57	170	120	92	47	11	0	0	0	0	8	77	189	714
55	126	89	62	30	6	0	0	0	0	4	52	148	517
50	46	29	17	9	0	0	0	0	0	0	14	68	183
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	625	622	773	885	1084	1247	1474	1492	1309	1093	769	622	11995
55	38	67	123	225	377	557	761	779	619	383	131	56	4116
57	21	42	90	182	320	497	699	717	559	325	96	35	3583
60	8	19	49	127	241	408	606	624	470	244	54	17	2867
65	0	4	13	58	134	267	451	469	327	133	15	3	1874
70	0	0	2	19	59	147	298	317	199	59	2	0	1102

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	387	421	533	654	847	1028	1236	1248	1077	853	534	384	387	808	1341	1995	2842	3870	5106	6354	7431	8284	8818	9202
45	237	279	378	504	692	878	1081	1093	927	698	386	240	237	516	894	1398	2090	2968	4049	5142	6069	6767	7153	7393
50	108	151	226	356	537	728	926	938	777	543	243	117	108	259	485	841	1378	2106	3032	3970	4747	5290	5533	5650
55	34	59	107	222	383	578	771	783	627	391	118	37	34	93	200	422	805	1383	2154	2937	3564	3955	4073	4110
60	1	12	36	107	239	429	616	628	477	248	40	4	1	13	49	156	395	824	1440	2068	2545	2793	2833	2837
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	262	277	336	414	521	621	736	753	659	531	351	272	262	539	875	1289	1810	2431	3167	3920	4579	5110	5461	5733

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