

Climatography of the United States

No. 20

1971-2000

Station: EL CAPITAN DAM, CA

COOP ID: 042709

Climate Division: CA 6

NWS Call Sign:

Elevation: 600 Feet

Lat: 32° 53N

Lon: 116° 49W

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	70.2	41.6	55.9	91	1971	19	60.4	1994	22	1949	4	50.9	1973	289	6	.0	.1	30.9	.0	1.9	.0
Feb	71.7	42.8	57.3	96	1963	4	62.4	1995	25	1999	11	52.2	1998	227	10	.0	.2	27.7	.0	.6	.0
Mar	72.1	44.6	58.4	100	1988	27	62.8	1997	29+	1971	3	53.3	1973	223	16	@	.4	30.8	.0	.2	.0
Apr	77.4	47.0	62.2	105	1989	8	68.0	1992	27	1971	26	54.5	1975	140	56	.1	2.5	29.9	.0	.1	.0
May	80.9	51.0	66.0	107	1984	29	72.0	1997	34	1999	9	60.5	1980	81	111	.3	3.9	31.0	.0	.0	.0
Jun	89.2	54.1	71.7	115+	1994	27	76.2	1981	40+	1999	25	67.4	1982	14	214	2.8	12.1	30.0	.0	.0	.0
Jul	95.9	57.2	76.6	113	1985	2	80.3	1984	40+	1999	23	71.3	1987	0	357	4.6	22.7	31.0	.0	.0	.0
Aug	97.0	59.2	78.1	115+	1998	31	81.7	1994	38	1999	2	73.3	1974	0	405	6.3	24.0	31.0	.0	.0	.0
Sep	93.7	57.5	75.6	115	1971	13	80.9	1984	42+	1998	19	70.0	1986	4	322	5.8	17.9	30.0	.0	.0	.0
Oct	86.6	52.6	69.6	110+	1992	1	75.6	1999	30	1996	29	66.1	1975	28	171	1.6	8.7	31.0	.0	@	.0
Nov	77.8	45.4	61.6	103	1997	2	65.3	1991	29	1976	28	57.7	1994	137	35	@	1.8	30.0	.0	.3	.0
Dec	71.4	41.5	56.5	95	1979	5	60.8	1977	25+	1998	11	50.2	1971	276	9	.0	.1	31.0	.0	1.5	.0
Ann	82.0	49.5	65.8	115+	Aug 1998	31	81.7	Aug 1994	22	Jan 1949	4	50.2	Dec 1971	1419	1712	21.5	94.4	364.3	.0	4.6	.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

064-A

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No. 20 1971-2000

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

Station: EL CAPITAN DAM, CA

COOP ID: 042709

Climate Division: CA 6

NWS Call Sign:

Elevation: 600 Feet Lat: 32°53N

Lon: 116°49W

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	3.19	2.20	3.35	1993	7	14.92	1993	.04	1976	7.7	5.3	2.2	.9	.12	.26	.61	1.02	1.51	2.10	2.84	3.81	5.19	7.58	10.00
Feb	3.35	2.55	2.70	1998	4	12.36	1998	.03	1984	7.2	5.1	2.4	1.0	.23	.44	.86	1.32	1.84	2.43	3.15	4.06	5.33	7.48	9.60
Mar	3.67	2.92	4.82	1995	6	10.61	1991	.00+	1997	8.4	6.0	2.6	.9	.00	.28	.88	1.45	2.06	2.75	3.56	4.55	5.93	8.22	10.45
Apr	1.21	.89	1.45	1965	1	3.42	1975	.00	1993	5.2	3.0	.8	.2	.05	.14	.32	.49	.69	.90	1.16	1.49	1.93	2.67	3.40
May	.44	.20	1.37	1977	9	2.45	1977	.00+	1996	3.3	1.2	.2	@	.00	.00	.04	.09	.15	.24	.35	.51	.74	1.15	1.58
Jun	.15	.00	.82+	1993	6	1.60	1972	.00+	2000	1.0	.3	.1	.0	.00	.00	.00	.00	.00	.00	.00	.05	.19	.51	.87
Jul	.08	.00	.86	1991	31	.88	1991	.00+	2000	.8	.2	@	.0	.00	.00	.00	.00	.00	.00	.00	.03	.10	.27	.47
Aug	.13	.00	1.98	1977	17	2.06	1977	.00+	2000	1.0	.3	@	@	.00	.00	.00	.00	.00	.00	.00	.03	.16	.45	.78
Sep	.35	.09	1.96	1976	11	3.21	1976	.00+	1996	2.0	.8	.2	.1	.00	.00	.00	.00	.01	.09	.21	.37	.62	1.05	1.50
Oct	.81	.51	2.23	1976	23	2.93	1974	.00+	1999	3.4	1.8	.4	.1	.00	.00	.05	.18	.34	.51	.73	1.00	1.38	2.01	2.67
Nov	1.49	1.12	3.54	1965	23	6.25	1985	.00	1980	4.5	2.9	1.0	.4	.04	.14	.33	.55	.78	1.06	1.40	1.82	2.41	3.42	4.41
Dec	2.01	1.69	3.87	1966	6	5.70	1984	.07	2000	5.8	3.9	1.5	.4	.20	.35	.62	.90	1.20	1.54	1.95	2.45	3.13	4.27	5.39
Ann	16.88	14.51	4.82	Mar 1995	6	14.92	Jan 1993	.00+	Aug 2000	50.3	30.8	11.4	4.0	7.72	9.21	11.27	12.94	14.49	16.05	17.72	19.63	22.03	25.66	28.94

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Climate Division: CA 6

NWS Call Sign:

Elevation: 600 Feet

Lat: 32° 53N

Lon: 116° 49W

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	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	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	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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NWS Call Sign:

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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	4/04	3/22	3/10	2/28	2/17	2/06	1/24	1/05
32	3/19	2/26	2/11	1/28	1/14	12/29	12/08	0/00	0/00
28	2/16	1/20	12/22	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	10/29	11/10	11/19	11/26	12/03	12/10	12/17	12/26	1/07
32	11/13	11/28	12/10	12/20	12/30	1/11	1/26	0/00	0/00
28	12/19	1/07	1/31	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	>365	323	301	286	272	259	245	230	208
32	>365	>365	>365	>365	361	331	309	288	263
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
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	289	227	223	140	81	14	0	0	4	28	137	276	1419
60	156	119	113	63	27	2	0	0	0	5	55	151	691
57	98	73	66	32	12	0	0	0	0	1	26	97	405
55	67	47	41	19	6	0	0	0	0	0	14	67	261
50	16	11	9	4	0	0	0	0	0	0	2	18	60
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	740	706	816	905	1053	1189	1380	1428	1308	1166	888	757	12336
55	94	110	144	234	346	499	667	715	618	453	212	110	4202
57	63	79	107	187	290	439	605	653	558	392	164	78	3615
60	28	41	61	129	212	351	512	560	468	303	103	40	2808
65	6	10	16	56	111	214	357	405	322	171	35	9	1712
70	0	0	2	16	43	105	210	254	190	77	7	0	904

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	483	487	557	651	792	929	1099	1132	1040	876	628	499	483	970	1527	2178	2970	3899	4998	6130	7170	8046	8674	9173
45	331	345	403	501	637	779	944	977	890	721	478	345	331	676	1079	1580	2217	2996	3940	4917	5807	6528	7006	7351
50	188	210	254	352	482	629	789	822	740	566	328	206	188	398	652	1004	1486	2115	2904	3726	4466	5032	5360	5566
55	80	96	127	215	331	479	634	667	590	412	193	88	80	176	303	518	849	1328	1962	2629	3219	3631	3824	3912
60	25	33	44	106	190	329	479	512	440	263	85	30	25	58	102	208	398	727	1206	1718	2158	2421	2506	2536
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	307	302	333	393	486	572	675	696	638	542	394	324	307	609	942	1335	1821	2393	3068	3764	4402	4944	5338	5662

(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