

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: ORICK PRAIRIE CREEK PARK, CA

1971-2000

COOP ID: 046498

Climate Division: CA 1

NWS Call Sign:

Elevation: 160 Feet

Lat: 41° 22N

Lon: 124° 01W

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	52.4	35.4	43.9	69	1981	18	49.5	1995	19+	1997	24	39.9	1982	654	0	.0	.0	25.3	.0	8.8	.0
Feb	55.2	37.1	46.2	77	1968	26	50.3	1995	21+	1989	6	39.6	1989	538	0	.0	.0	24.7	.1	5.8	.0
Mar	56.9	37.6	47.3	80+	1978	18	50.7	1978	25	1967	4	43.2	1977	534	0	.0	.0	29.8	.0	5.7	.0
Apr	58.9	38.4	48.7	88	1951	10	53.3	1989	17	1968	21	43.7	1975	491	0	.0	.0	29.6	.0	4.3	.0
May	62.5	41.5	52.0	93+	1982	24	55.9	1997	27	1968	5	49.2	1990	403	0	.0	.1	30.9	.0	1.3	.0
Jun	65.9	45.2	55.6	99	1960	4	58.6	1992	31+	1993	11	51.5	1991	284	0	.0	.2	30.0	.0	.1	.0
Jul	68.6	48.0	58.3	88+	1990	11	60.9	1996	37+	1981	7	55.2	1977	207	0	.0	.0	31.0	.0	.0	.0
Aug	69.6	48.4	59.0	97	1960	17	61.9	1971	31+	1970	23	56.5	1980	186	0	.0	@	31.0	.0	.0	.0
Sep	70.6	45.7	58.2	99	1964	24	63.0	1997	31+	1970	14	55.8	1986	209	3	.0	.2	30.0	.0	.0	.0
Oct	65.6	41.8	53.7	98	1993	23	56.7	1979	25+	1971	29	49.7	1971	350	0	.0	@	31.0	.0	1.2	.0
Nov	56.6	38.9	47.8	75	1966	1	53.0	1997	23	1978	18	41.9	1985	519	0	.0	.0	28.2	.0	5.6	.0
Dec	51.4	35.9	43.7	68	1993	11	49.5	1995	17	1972	8	36.5	1990	662	0	.0	.0	23.3	.1	9.8	.0
Ann	61.2	41.2	51.2	99+	Sep 1964	24	63.0	Sep 1997	17+	Dec 1972	8	36.5	Dec 1990	5037	3	.0	.5	344.8	.2	42.6	.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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Climate Division: CA 1

NWS Call Sign:

Elevation: 160 Feet Lat: 41°22N

Lon: 124°01W

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	9.75	9.91	5.19	1953	18	20.84	1995	1.04	1985	15.7	12.4	6.7	3.1	2.98	3.91	5.29	6.48	7.63	8.83	10.14	11.69	13.68	16.80	19.69
Feb	9.72	9.27	4.90	1956	21	21.52	1986	1.79	1988	15.8	12.6	6.8	3.4	3.21	4.13	5.49	6.64	7.74	8.89	10.14	11.60	13.48	16.39	19.08
Mar	9.24	9.15	5.12	1975	18	17.54	1975	2.61	1994	17.2	12.9	6.5	2.9	3.03	3.91	5.20	6.29	7.35	8.44	9.63	11.02	12.81	15.60	18.17
Apr	5.28	5.49	2.87	1974	1	11.76	1982	1.20	1985	13.2	9.3	3.6	1.5	1.55	2.05	2.80	3.46	4.09	4.75	5.48	6.34	7.46	9.20	10.82
May	3.18	2.92	2.70	1949	2	8.10	1993	.02	1982	9.0	5.7	2.3	.9	.30	.53	.96	1.40	1.88	2.42	3.07	3.87	4.98	6.82	8.63
Jun	1.30	1.06	2.64	1988	1	6.08	1988	.00+	1999	4.3	2.7	.7	.2	.00	.11	.33	.53	.75	.99	1.27	1.61	2.09	2.88	3.65
Jul	.31	.15	2.39	1983	1	2.69	1983	.00+	1998	2.2	.7	.2	@	.00	.00	.00	.02	.06	.12	.21	.33	.52	.87	1.24
Aug	.52	.24	2.29	1968	25	2.74	1976	.00+	2000	3.1	1.2	.4	.1	.00	.00	.00	.03	.12	.23	.38	.59	.90	1.46	2.02
Sep	1.58	.66	3.23	1977	28	8.69	1977	.00+	1999	4.5	2.8	1.1	.5	.00	.00	.06	.19	.40	.70	1.13	1.73	2.65	4.34	6.14
Oct	4.33	3.67	11.50	1950	29	11.61	1975	.22	1987	8.4	5.5	2.7	1.3	.42	.73	1.32	1.92	2.57	3.31	4.19	5.28	6.78	9.27	11.71
Nov	9.90	8.18	7.08	1998	21	29.82	1973	2.62	1989	15.9	12.1	6.3	3.5	2.47	3.40	4.84	6.12	7.38	8.72	10.21	11.98	14.29	17.96	21.39
Dec	10.92	9.34	4.40	1982	16	25.01	1983	1.08	1976	15.7	12.7	7.1	3.7	2.37	3.38	4.98	6.43	7.88	9.43	11.17	13.26	16.01	20.39	24.53
Ann	66.03	64.70	11.50	Oct 1950	29	29.82	Nov 1973	.00+	Aug 2000	125.0	90.6	44.4	21.1	40.35	45.03	51.19	55.97	60.28	64.52	68.94	73.89	79.98	88.96	96.84

+ 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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Climate Division: CA 1

NWS Call Sign:

Elevation: 160 Feet

Lat: 41°22N

Lon: 124°01W

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	.3	.0	#	0	4.0	1971	13	6.5	1971	1	1972	26	#	1972	.1	.1	@	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.0	0	0	.0	0	6	1989	4	#+	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1973	21	#	1973	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	#	1977	19	#	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	5.3	1972	8	6.3	1972	5	1972	8	1	1972	.1	.1	@	@	.0	.3	.2	@	.0
Ann	.6	.0	N/A	N/A	5.3	Dec 1972	8	6.5	Jan 1971	6	Feb 1989	4	1	Dec 1972	.2	.2	@	@	.0	.3	.2	@	.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

Complete documentation available from:

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Climate Division: CA 1

NWS Call Sign:

Elevation: 160 Feet

Lat: 41° 22N

Lon: 124° 01W

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	6/21	6/13	6/07	6/02	5/28	5/24	5/19	5/13	5/05
32	5/31	5/21	5/14	5/08	5/02	4/26	4/20	4/13	4/03
28	4/12	3/27	3/15	3/04	2/23	2/13	2/02	1/20	12/31
24	1/25	1/08	12/24	11/30	0/00	0/00	0/00	0/00	0/00
20	12/31	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	9/05	9/14	9/21	9/26	10/01	10/07	10/12	10/19	10/27
32	10/10	10/18	10/24	10/29	11/03	11/07	11/12	11/18	11/26
28	11/05	11/18	11/27	12/06	12/13	12/21	12/30	1/09	1/25
24	12/09	12/29	1/19	0/00	0/00	0/00	0/00	0/00	0/00
20	1/09	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	163	150	141	133	125	118	110	101	88
32	223	210	200	192	184	176	168	158	145
28	>365	>365	316	298	285	273	261	247	229
24	>365	>365	>365	>365	>365	>365	>365	>365	350
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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COOP ID: 046498

Climate Division: CA 1 NWS Call Sign: Elevation: 160 Feet Lat: 41°22N Lon: 124°01W

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	654	538	534	491	403	284	207	186	209	350	519	662	5037
60	499	388	395	341	250	143	76	54	87	199	369	507	3308
57	406	306	306	256	165	76	29	13	40	120	284	415	2416
55	345	254	248	202	117	45	11	3	19	78	229	357	1908
50	205	136	124	93	35	5	0	0	1	17	116	219	951
32	1	0	0	0	0	0	0	0	0	0	0	5	6

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	369	396	473	499	620	706	816	838	785	673	471	366	7012
55	1	6	8	10	24	60	114	128	113	39	10	5	518
57	0	2	4	5	11	32	69	76	74	19	5	1	298
60	0	0	0	0	2	9	24	24	31	4	0	0	94
65	0	0	0	0	0	0	0	0	3	0	0	0	3
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	178	223	263	299	402	489	593	603	560	450	252	165	178	401	664	963	1365	1854	2447	3050	3610	4060	4312	4477
45	68	99	124	158	247	339	438	448	410	295	124	62	68	167	291	449	696	1035	1473	1921	2331	2626	2750	2812
50	12	28	36	53	109	192	283	293	261	150	39	13	12	40	76	129	238	430	713	1006	1267	1417	1456	1469
55	0	1	0	9	30	69	132	143	117	47	3	0	0	1	1	10	40	109	241	384	501	548	551	551
60	0	0	0	0	1	11	27	27	32	9	0	0	0	0	0	0	1	12	39	66	98	107	107	107
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	72	97	134	160	209	258	323	332	328	260	121	61	72	169	303	463	672	930	1253	1585	1913	2173	2294	2355

(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