

**Climatology
of the United States
No. 20**

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

Station: BORREGO DESERT PARK, CA

1971-2000

COOP ID: 040983

Climate Division: CA 7

NWS Call Sign:

Elevation: 805 Feet

Lat: 33°14N

Lon: 116°25W

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	69.1	43.1	56.1	90	1971	19	61.4	1986	20	1971	5	50.1	1979	285	10	.0	@	30.9	.0	1.2	.0
Feb	72.8	45.9	59.4	95	1989	27	66.7	1991	24	1990	15	55.2	1979	181	23	.0	.5	27.8	.0	.3	.0
Mar	77.5	48.7	63.1	101+	1989	31	71.9	1972	23	1997	1	57.3	1973	151	92	.1	2.9	31.0	.0	.1	.0
Apr	84.9	53.2	69.1	111	1989	8	77.7	1989	28	1972	20	60.7	1975	73	195	1.8	10.8	30.0	.0	@	.0
May	92.6	59.8	76.2	114	1983	29	84.5	1997	34	1972	21	69.0	1977	19	366	7.3	21.4	31.0	.0	.0	.0
Jun	102.7	68.1	85.4	122	1990	25	90.9	1981	45	1971	3	79.3	1998	0	612	21.6	28.2	30.0	.0	.0	.0
Jul	107.2	75.0	91.1	121	1995	28	94.3	1989	56	1987	18	85.8	1993	0	810	28.6	30.8	31.0	.0	.0	.0
Aug	105.9	75.1	90.5	120	1977	5	94.4	1995	55	1973	27	86.5	1983	0	791	27.5	30.6	31.0	.0	.0	.0
Sep	100.5	69.7	85.1	117+	1990	11	89.9	1979	49+	1986	27	78.1	1985	0	603	18.1	27.7	30.0	.0	.0	.0
Oct	89.9	60.6	75.3	113+	1980	3	82.2	1988	33	1971	30	68.7	1971	16	333	4.4	17.4	31.0	.0	.0	.0
Nov	77.6	49.6	63.6	98	1988	7	69.8	1995	32	1976	29	56.3	1994	122	79	.0	2.1	30.0	.0	@	.0
Dec	69.4	43.2	56.3	87+	1989	8	62.5	1980	23	1990	23	51.4	1992	283	14	.0	.0	30.9	.0	1.1	.0
Ann	87.5	57.7	72.6	122	Jun 1990	25	94.4	Aug 1995	20	Jan 1971	5	50.1	Jan 1979	1130	3928	109.4	172.4	364.6	.0	2.7	.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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NWS Call Sign:

Elevation: 805 Feet Lat: 33°14N

Lon: 116°25W

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	1.43	.74	2.02	1995	5	8.78	1993	.00	1972	4.8	2.6	.8	.4	.00	.04	.15	.31	.52	.79	1.15	1.64	2.37	3.67	5.02
Feb	1.41	.98	2.42	1991	28	6.58	1980	.00+	1974	4.3	2.6	1.0	.4	.00	.03	.17	.35	.58	.86	1.21	1.68	2.35	3.53	4.72
Mar	.94	.77	2.46	1983	2	4.52	1983	.00+	1988	4.6	2.5	.5	.1	.00	.00	.07	.18	.33	.52	.76	1.10	1.58	2.44	3.33
Apr	.19	.05	.81	1968	2	1.01	1975	.00+	2000	1.7	.6	.1	.0	.00	.00	.00	.00	.00	.03	.11	.22	.36	.60	.84
May	.10	.02	1.04	1980	2	1.04	1980	.00+	2000	.9	.3	@	@	.00	.00	.00	.00	.00	.01	.04	.10	.17	.31	.45
Jun	.02	.00	.29	1954	25	.23	1990	.00+	2000	.2	.1	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Jul	.33	.13	1.29	1979	20	1.50	1984	.00+	2000	1.6	.7	.2	.1	.00	.00	.00	.01	.06	.13	.23	.37	.57	.94	1.33
Aug	.59	.33	2.73	1977	17	5.07	1983	.00+	1999	2.1	1.3	.3	.1	.00	.00	.00	.03	.11	.22	.39	.63	1.00	1.69	2.42
Sep	.50	.07	2.09	1976	11	4.40	1976	.00+	1994	1.5	.9	.3	.2	.00	.00	.00	.00	.01	.08	.23	.46	.84	1.55	2.32
Oct	.21	.05	1.89	1948	17	1.69	1987	.00+	1999	1.5	.7	.1	.0	.00	.00	.00	.00	.00	.03	.10	.20	.36	.66	.97
Nov	.44	.05	1.69	1965	23	2.81	1985	.00+	2000	1.7	1.0	.3	@	.00	.00	.00	.00	.00	.07	.21	.42	.76	1.38	2.03
Dec	.75	.29	1.10	1982	9	3.97	1982	.00+	2000	3.6	1.7	.5	.2	.00	.00	.04	.12	.24	.39	.58	.86	1.26	1.99	2.74
Ann	6.91	6.15	2.73	Aug 1977	17	8.78	Jan 1993	.00+	Dec 2000	28.5	15.0	4.1	1.5	1.87	2.53	3.52	4.40	5.26	6.16	7.15	8.33	9.87	12.28	14.53

+ 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

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

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Climate Division: CA 7

NWS Call Sign:

Elevation: 805 Feet

Lat: 33°14N

Lon: 116°25W

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	#	1985	2	#	1985	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	#	1998	15	#	1998	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#	Feb 1985	2	#	Feb 1985	#	Dec 1998	15	#	Dec 1998	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-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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Climate Division: CA 7

NWS Call Sign:

Elevation: 805 Feet

Lat: 33° 14N

Lon: 116° 25W

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	4/19	3/30	3/16	3/03	2/20	2/08	1/26	1/11	12/18
32	3/02	2/12	1/30	1/17	1/03	12/14	0/00	0/00	0/00
28	2/19	1/18	12/06	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	11/10	11/23	12/02	12/10	12/17	12/25	1/02	1/13	2/02
32	12/09	12/19	12/26	1/03	1/12	1/28	0/00	0/00	0/00
28	12/31	1/27	0/00	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	347	324	308	295	283	270	256	236
32	>365	>365	>365	>365	>365	>365	355	326	299
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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Climate Division: CA 7 NWS Call Sign: Elevation: 805 Feet Lat: 33°14N Lon: 116°25W

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	285	181	151	73	19	0	0	0	0	16	122	283	1130
60	159	91	76	30	6	0	0	0	0	4	53	163	582
57	104	52	43	17	2	0	0	0	0	1	28	109	356
55	73	32	29	11	0	0	0	0	0	0	17	79	241
50	21	8	10	2	0	0	0	0	0	0	3	26	70
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	748	766	963	1112	1370	1602	1833	1814	1593	1340	947	754	14842
55	108	154	279	433	657	912	1120	1101	903	627	274	120	6688
57	77	118	232	379	597	852	1058	1039	843	566	225	88	6074
60	39	73	171	302	507	762	965	946	753	476	161	49	5204
65	10	23	92	195	366	612	810	791	603	333	79	14	3928
70	0	5	38	114	242	464	655	636	454	211	30	2	2851

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	519	586	738	891	1127	1368	1590	1573	1357	1101	721	520	519	1105	1843	2734	3861	5229	6819	8392	9749	10850	11571	12091
45	364	443	583	741	972	1218	1435	1418	1207	946	571	366	364	807	1390	2131	3103	4321	5756	7174	8381	9327	9898	10264
50	219	303	429	591	817	1068	1280	1263	1057	791	422	223	219	522	951	1542	2359	3427	4707	5970	7027	7818	8240	8463
55	102	174	285	441	662	918	1125	1108	907	636	278	105	102	276	561	1002	1664	2582	3707	4815	5722	6358	6636	6741
60	35	79	157	305	511	768	970	953	757	485	155	32	35	114	271	576	1087	1855	2825	3778	4535	5020	5175	5207
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	308	359	457	559	698	819	955	953	840	699	450	317	308	667	1124	1683	2381	3200	4155	5108	5948	6647	7097	7414

(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