

Climatology of the United States

No. 20

1971-2000

Station: BIG BEAR LAKE, CA

COOP ID: 040741

Climate Division: CA 6

NWS Call Sign:

Elevation: 6,790 Feet Lat: 34° 15N

Lon: 116° 53W

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	47.1	20.7	33.9	71	1981	3	41.8	1986	-25	1979	29	27.6	1979	965	0	.0	.0	13.2	1.7	28.9	.5
Feb	48.0	22.1	35.1	72+	1986	25	39.8	1995	-10	1962	28	30.3	1973	839	0	.0	.0	13.1	1.3	26.3	.2
Mar	51.1	24.5	37.8	80	1972	7	44.7	1972	-8	1969	12	30.7	1991	828	0	.0	.0	18.1	.5	28.6	.0
Apr	58.0	28.3	43.2	82	1981	30	49.7	1989	3	1963	2	33.6	1975	657	0	.0	.0	24.4	.2	23.3	.0
May	66.1	34.4	50.3	84+	2001	31	56.5	1984	18+	1967	1	42.4	1977	461	3	.0	.0	29.4	.0	11.7	.0
Jun	75.6	41.1	58.4	92	1961	20	62.6	1994	22	1963	4	54.7	1982	208	10	.0	.1	29.9	.0	1.7	.0
Jul	80.7	47.1	63.9	94+	1998	15	67.1	1996	28	1963	6	60.5	1987	73	39	.0	.8	31.0	.0	@	.0
Aug	79.1	46.3	62.7	92+	1985	25	65.8	1986	29	1965	25	58.7	1976	105	33	.0	.3	31.0	.0	@	.0
Sep	73.6	40.6	57.1	87	1978	2	60.2+	1997	19	1964	2	51.4	1986	241	4	.0	.0	29.9	.0	2.5	.0
Oct	64.4	32.1	48.3	85	1980	5	52.7	1978	10+	1971	29	43.6	1971	519	0	.0	.0	29.0	.0	15.9	.0
Nov	54.3	25.3	39.8	74+	1988	4	45.4	1995	-15	1964	19	33.8	1994	756	0	.0	.0	21.3	.2	26.4	.0
Dec	47.9	21.1	34.5	69+	1979	8	40.7	1980	-14	1960	9	29.3	1971	946	0	.0	.0	14.1	1.9	27.7	.4
Ann	62.2	32.0	47.1	94+	1998	15	67.1	1996	-25	1979	29	27.6	1979	6598	89	.0	1.2	284.4	5.8	193.0	1.1

+ 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: 1960-2001

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Lon: 116°53W

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	4.10	2.61	9.40	1969	25	21.15	1993	.00+	1976	6.8	5.2	2.6	1.3	.00	.18	.71	1.31	1.99	2.79	3.76	5.00	6.75	9.72	12.70
Feb	4.60	3.81	6.43	1969	25	17.34	1980	.02	1972	6.1	5.0	2.7	1.5	.12	.30	.75	1.32	2.01	2.87	3.97	5.42	7.52	11.20	14.94
Mar	3.55	3.59	3.06	1995	11	11.04	1978	.00+	1997	6.6	5.1	2.5	1.2	.00	.19	.71	1.24	1.83	2.52	3.34	4.36	5.81	8.24	10.65
Apr	.95	.67	2.18	1967	11	3.58	1978	.00+	1993	3.6	2.3	.7	.2	.00	.00	.08	.27	.46	.66	.91	1.21	1.62	2.29	2.99
May	.51	.32	1.99	1977	9	3.86	1977	.00+	1997	2.3	1.2	.3	.1	.00	.00	.01	.08	.16	.27	.41	.60	.87	1.34	1.83
Jun	.18	.00	.85	1993	5	1.59	1972	.00+	1998	.8	.5	.1	.0	.00	.00	.00	.00	.00	.00	.01	.11	.28	.61	.96
Jul	.75	.31	1.80	1984	18	5.05	1984	.00+	2000	2.5	1.6	.6	.2	.00	.00	.01	.09	.20	.36	.57	.85	1.28	2.04	2.83
Aug	.98	.63	1.98	1994	14	3.19	2000	.00+	1993	3.3	2.2	.6	.2	.00	.00	.04	.19	.37	.58	.85	1.19	1.68	2.51	3.38
Sep	.53	.17	2.34	1976	10	5.03	1976	.00+	1994	2.3	1.2	.2	.1	.00	.00	.00	.01	.06	.16	.31	.54	.89	1.57	2.28
Oct	.78	.61	1.85	1979	20	3.25	1987	.00+	1999	2.7	1.8	.5	.1	.00	.00	.00	.25	.42	.60	.79	1.02	1.33	1.85	2.33
Nov	1.55	.81	6.54	1965	23	6.07	1982	.00+	1995	3.2	2.5	1.0	.5	.00	.00	.15	.36	.62	.94	1.33	1.86	2.60	3.91	5.24
Dec	2.67	1.54	9.43	1966	6	12.98	1971	.00+	1999	4.7	3.7	1.7	.8	.00	.09	.41	.78	1.22	1.74	2.39	3.22	4.41	6.46	8.51
Ann	21.15	20.18	9.43	Dec 1966	6	21.15	Jan 1993	.00+	Jul 2000	44.9	32.3	13.5	6.2	8.62	10.56	13.30	15.56	17.68	19.84	22.17	24.85	28.25	33.45	38.17

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

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Climate Division: **CA 6**

NWS Call Sign:

Elevation: **6,790 Feet**

Lat: **34° 15N**

Lon: **116° 53W**

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	15.1	9.8	2	#	26.0	1979	31	47.0	1995	38	1979	31	12	1971	3.6	3.3	2.2	1.3	.5	-9.9	-9.9	-9.9	-9.9
Feb	14.7	6.0	4	#	26.0	1990	17	59.5	1990	58	1979	3	28	1979	3.0	2.7	1.8	1.0	.4	.8	.4	.4	.4
Mar	14.0	12.0	3	#	27.0	1991	27	56.5	1982	29	1973	11	24	1991	3.8	3.4	2.1	1.2	.4	2.1	1.6	.9	.2
Apr	3.4	1.0	#	0	13.0	1982	1	24.3	1999	8	1982	3	1	1982	1.3	1.1	.3	.2	.1	.3	.1	.1	.0
May	.6	.0	#	0	7.9	1998	13	7.9	1998	2	1980	10	#+	2000	.3	.2	@	@	.0	.1	.0	.0	.0
Jun	.0	.0	#	0	.5	1993	6	.5+	1999	#+	1995	17	#+	1995	.1	.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	.1	.0	0	0	1.5	1989	19	1.5	1989	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	.3	.0	#	0	2.0	1994	14	2.3	1996	5	1971	17	1	1971	.3	.2	.0	.0	.0	.0	.0	.0	.0
Nov	4.9	1.8	1	0	13.5	1982	10	24.0	1975	20	1972	17	16	1982	1.5	1.3	.6	.2	.1	.1	.1	.0	.0
Dec	8.7	6.0	1	0	15.0	1984	19	36.5	1992	28	1978	19	12	1972	2.6	2.3	1.5	.8	.2	.6	.1	.0	.0
Ann	61.8	36.6	N/A	N/A	27.0	Mar 1991	27	59.5	Feb 1990	58	Feb 1979	3	28	Feb 1979	16.5	14.5	8.5	4.7	1.7	-9.9	-9.9	-9.9	-9.9

+ 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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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	7/14	7/08	7/03	6/30	6/26	6/23	6/19	6/15	6/09
32	6/22	6/17	6/13	6/10	6/07	6/04	6/01	5/29	5/24
28	6/09	6/03	5/30	5/26	5/23	5/19	5/16	5/12	5/06
24	5/24	5/14	5/08	5/02	4/27	4/22	4/16	4/10	4/01
20	4/26	4/19	4/13	4/09	4/05	3/31	3/27	3/22	3/14
16	4/10	4/02	3/28	3/23	3/18	3/13	3/08	3/03	2/23
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	8/11	8/19	8/24	8/28	9/01	9/05	9/10	9/15	9/22
32	9/06	9/12	9/16	9/20	9/24	9/27	10/01	10/06	10/12
28	9/19	9/25	9/29	10/03	10/07	10/10	10/14	10/19	10/25
24	10/05	10/12	10/16	10/20	10/24	10/28	11/01	11/05	11/12
20	10/15	10/23	10/29	11/03	11/07	11/12	11/17	11/23	12/01
16	11/02	11/09	11/15	11/20	11/24	11/29	12/03	12/09	12/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	93	84	77	72	66	61	55	49	40
32	126	120	115	111	108	104	100	96	89
28	161	153	147	141	136	131	126	120	111
24	216	203	194	186	179	172	164	155	143
20	250	238	230	223	216	209	202	194	182
16	278	268	262	256	250	245	239	232	223

* 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)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below													
65	965	839	828	657	461	208	73	105	241	519	756	946	6598
60	810	699	688	508	319	98	13	29	117	367	606	791	5045
57	717	615	595	423	242	54	2	9	65	280	516	698	4216
55	655	559	535	369	198	34	0	4	40	226	456	636	3712
50	500	419	389	242	108	8	0	0	7	115	311	486	2585
32	79	41	43	14	1	0	0	0	0	0	13	83	274

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above													
32	137	126	223	348	566	792	989	951	753	504	247	160	5796
55	0	0	2	12	50	136	276	242	103	17	0	0	838
57	0	0	0	7	32	96	216	185	68	8	0	0	612
60	0	0	0	2	16	50	133	112	31	2	0	0	346
65	0	0	0	0	3	10	39	33	4	0	0	0	89
70	0	0	0	0	0	0	4	4	0	0	0	0	8

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	12	21	53	149	338	567	751	717	536	274	79	34	12	33	86	235	573	1140	1891	2608	3144	3418	3497	3531
45	0	0	7	59	202	417	596	562	386	142	18	5	0	0	7	66	268	685	1281	1843	2229	2371	2389	2394
50	0	0	0	13	91	276	441	407	241	50	1	0	0	0	0	13	104	380	821	1228	1469	1519	1520	1520
55	0	0	0	0	22	140	287	253	113	9	0	0	0	0	0	0	22	162	449	702	815	824	824	824
60	0	0	0	0	2	48	143	117	35	0	0	0	0	0	0	0	2	50	193	310	345	345	345	345
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	34	45	72	149	263	394	494	473	365	230	100	45	34	79	151	300	563	957	1451	1924	2289	2519	2619	2664

(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/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 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/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