

Climatology of the United States

No. 20

1971-2000

Station: BEAUMONT 1 E, CA

COOP ID: 040609

Climate Division: CA 7

NWS Call Sign: BUO

Elevation: 2,600 Feet Lat: 33° 56N

Lon: 116° 58W

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	63.7	39.8	51.8	83+	1996	12	58.2	1986	11	1949	12	46.1	1979	412	0	.0	.0	29.0	.0	4.5	.0
Feb	66.2	40.2	53.2	88	1996	8	59.2	1991	19	1990	15	47.9	1998	332	1	.0	.0	27.1	.0	3.3	.0
Mar	68.3	41.1	54.7	95+	1997	20	62.1	1972	21	1953	2	47.9	1973	317	12	.0	.1	30.2	.0	2.2	.0
Apr	74.0	43.6	58.8	100	1989	6	64.4	1989	25	1955	5	52.2	1975	218	31	@	1.6	29.8	.0	.6	.0
May	80.2	48.6	64.4	106	2000	21	71.5	1997	31	1950	8	57.5	1998	127	109	.3	5.5	31.0	.0	@	.0
Jun	89.5	53.7	71.6	109	2000	14	78.1	1981	35	1955	2	66.0	1982	22	219	3.4	15.6	30.0	.0	.0	.0
Jul	96.3	58.8	77.6	114	1995	28	81.0	1996	42+	1956	4	72.3	1993	0	390	8.8	26.3	31.0	.0	.0	.0
Aug	96.6	59.5	78.1	113	1997	5	82.5	1998	38	1954	27	74.4	1976	0	404	8.9	26.1	31.0	.0	.0	.0
Sep	91.4	56.7	74.1	112	1982	2	78.8	1984	37+	1953	22	67.0	1986	8	279	4.4	17.9	30.0	.0	.0	.0
Oct	82.3	50.0	66.2	106	1980	1	70.7	1978	29+	1971	30	62.3	1981	71	106	.6	6.1	31.0	.0	.1	.0
Nov	71.6	43.0	57.3	92	1997	3	62.7	1995	20	1958	17	50.3	1994	247	16	.0	.3	29.9	.0	1.6	.0
Dec	64.7	39.4	52.1	86	1989	5	58.5	1980	20+	1960	9	46.0	1971	407	5	.0	.0	29.1	.0	4.8	.0
Ann	78.7	47.9	63.3	114	1995	28	82.5	1998	11	1949	12	46.0	1971	2161	1572	26.4	99.5	359.1	.0	17.1	.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

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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	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	4.18	2.66	4.69	1969	25	20.37	1993	.00+	1976	7.2	5.5	2.4	1.3	.00	.15	.66	1.26	1.94	2.76	3.77	5.06	6.90	10.05	13.21	
Feb	4.07	3.09	4.74	1991	28	13.20	1980	.07	1984	6.5	5.3	3.0	1.5	.26	.51	1.01	1.57	2.19	2.92	3.80	4.92	6.49	9.15	11.79	
Mar	3.72	2.77	4.02	1991	1	11.44	1991	.00	1972	8.0	6.1	2.3	1.0	.07	.27	.73	1.24	1.83	2.53	3.39	4.50	6.06	8.72	11.39	
Apr	1.10	.77	2.21	1958	1	3.60	1983	.00+	1993	4.9	2.7	.7	.1	.00	.00	.14	.31	.50	.72	.99	1.34	1.83	2.67	3.51	
May	.73	.45	1.91	1977	9	4.14	1977	.00+	1997	3.6	1.7	.4	.1	.00	.00	.00	.08	.21	.37	.58	.86	1.27	1.99	2.72	
Jun	.21	.09	1.82	1993	5	1.98	1993	.00+	2000	1.4	.5	.1	@	.00	.00	.00	.00	.01	.05	.11	.21	.37	.65	.94	
Jul	.27	.02	1.83	1984	13	3.06	1984	.00+	2000	1.1	.5	.2	.1	.00	.00	.00	.00	.00	.00	.04	.15	.37	.74	1.29	
Aug	.23	.04	2.49	1994	14	2.24	1977	.00+	1999	1.5	.5	.1	.1	.00	.00	.00	.00	.00	.04	.10	.21	.39	.73	1.10	
Sep	.63	.19	2.48	1976	11	4.60	1976	.00+	1996	1.9	1.0	.3	.2	.00	.00	.00	.00	.02	.16	.36	.66	1.11	1.93	2.77	
Oct	.72	.57	1.71	1979	20	4.60	1987	.00+	1999	2.9	1.6	.4	.1	.00	.01	.07	.15	.26	.41	.59	.84	1.20	1.84	2.50	
Nov	1.44	.96	3.10	1982	30	6.08	1982	.00+	1992	3.7	2.7	1.0	.4	.00	.04	.20	.39	.62	.91	1.26	1.72	2.38	3.53	4.69	
Dec	2.00	1.55	4.19	1966	3	6.42	1984	.00	1989	5.2	3.6	1.3	.6	.03	.14	.38	.65	.97	1.34	1.81	2.41	3.26	4.72	6.18	
Ann	19.30	17.01	4.74	Feb 1991	28	20.37	Jan 1993	.00+	Jul 2000	47.9	31.7	12.2	5.5	7.62	9.41	11.94	14.04	16.02	18.04	20.21	22.73	25.93	30.83	35.30	

+ 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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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	.6	.0	#	0	13.8	1979	31	15.8	1979	4	1974	4	#	1974	.1	.1	@	@	@	@	@	.0	.0
Feb	.4	.0	#	0	3.0	1985	2	7.0	1987	3	1985	2	#	1989	.2	.2	.1	.0	.0	.1	@	.0	.0
Mar	.0	.0	#	0	.2	1991	26	.4	1991	2	1982	18	#	1998	.1	.0	.0	.0	.0	.1	.0	.0	.0
Apr	#	.0	0	0	#	1980	22	#	1980	#+	1999	13	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	2000	.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	.1	.0	0	0	3.0	1985	12	3.0	1985	#	1985	12	0	0	.0	.0	@	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	2.0	1985	11	2.0	1985	6	1987	17	#	1987	.0	.0	.0	.0	.0	.2	.1	@	.0
Ann	1.2	.0	N/A	N/A	13.8	Jan 1979	31	15.8	Jan 1979	6	Dec 1987	17	#+	May 2000	.4	.3	.1	@	@	.4	.1	.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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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	5/09	5/01	4/25	4/19	4/15	4/10	4/05	3/30	3/21
32	4/23	4/11	4/02	3/26	3/19	3/12	3/04	2/23	2/11
28	3/18	3/03	2/20	2/11	2/02	1/23	1/14	1/02	12/14
24	1/16	12/31	12/15	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	10/20	10/27	11/01	11/05	11/09	11/13	11/18	11/23	11/30
32	11/06	11/14	11/20	11/25	11/29	12/04	12/09	12/14	12/22
28	11/18	11/28	12/05	12/11	12/17	12/24	12/30	1/08	1/24
24	12/09	12/24	1/09	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	238	228	220	214	208	202	196	188	178
32	292	279	270	262	255	248	240	231	218
28	>365	361	337	324	314	304	295	284	269
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

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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
65	412	332	317	218	127	22	0	0	8	71	247	407	2161
60	267	203	205	122	60	5	0	0	1	22	136	267	1288
57	188	136	145	77	33	2	0	0	0	8	87	195	871
55	144	101	112	53	22	1	0	0	0	4	61	155	653
50	62	35	45	17	6	0	0	0	0	0	19	75	259
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
32	611	593	703	803	1005	1187	1413	1427	1261	1058	759	622	11442
55	42	50	101	166	314	497	700	714	571	349	129	63	3696
57	24	29	72	130	263	438	638	652	511	291	96	42	3186
60	10	12	39	85	196	352	545	559	421	212	55	21	2507
65	0	1	12	31	109	219	390	404	279	106	16	5	1572
70	0	0	1	9	47	113	240	254	156	39	2	0	861

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	349	376	453	570	760	951	1168	1180	1015	796	501	360	349	725	1178	1748	2508	3459	4627	5807	6822	7618	8119	8479
45	209	236	300	421	605	801	1013	1025	865	641	354	218	209	445	745	1166	1771	2572	3585	4610	5475	6116	6470	6688
50	100	120	170	283	451	651	858	870	715	487	217	105	100	220	390	673	1124	1775	2633	3503	4218	4705	4922	5027
55	32	49	72	156	299	501	703	715	565	337	110	41	32	81	153	309	608	1109	1812	2527	3092	3429	3539	3580
60	3	14	27	68	171	356	548	560	415	201	41	3	3	17	44	112	283	639	1187	1747	2162	2363	2404	2407
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	199	229	283	361	464	578	704	712	622	493	313	214	199	428	711	1072	1536	2114	2818	3530	4152	4645	4958	5172

(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