

Climatology of the United States

No. 20 1971-2000

Station: BLYTHE, CA

COOP ID: 040924

Climate Division: CA 7

NWS Call Sign:

Elevation: 268 Feet

Lat: 33° 37N

Lon: 114° 36W

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	67.2	39.8	53.5	87+	1971	20	58.2	1981	18	1937	22	49.1	1979	358	0	.0	.0	30.8	.0	4.4	.0
Feb	72.8	43.5	58.2	93	1986	28	63.2	1996	21+	1933	10	54.4	1975	202	10	.0	.2	28.0	.0	1.1	.0
Mar	79.0	48.1	63.6	101	1934	30	70.3	1972	27	1962	1	57.1	1991	126	81	@	3.4	31.0	.0	@	.0
Apr	87.1	53.8	70.5	115	1996	27	76.8	1996	34	1975	2	62.0	1975	44	207	2.0	12.7	30.0	.0	.0	.0
May	95.4	61.7	78.6	115+	1951	26	85.0	1997	40	1933	11	71.4	1977	5	424	10.3	23.6	31.0	.0	.0	.0
Jun	104.8	69.3	87.1	122+	1994	24	91.5	1981	50+	1971	2	83.6	1998	0	662	24.1	29.3	30.0	.0	.0	.0
Jul	108.5	77.1	92.8	122	1995	28	96.2	1996	59+	2001	17	89.8	1987	0	861	29.8	31.0	31.0	.0	.0	.0
Aug	106.8	76.4	91.6	121+	1950	31	95.6	1998	58+	2001	21	87.2	1976	0	825	28.8	30.8	31.0	.0	.0	.0
Sep	101.2	69.4	85.3	120+	1950	1	89.2	1995	45+	1934	28	78.5	1985	0	609	19.2	28.4	30.0	.0	.0	.0
Oct	89.4	57.2	73.3	111	1980	1	78.9	1988	29	1971	30	68.9	1971	14	270	3.9	16.3	31.0	.0	.1	.0
Nov	75.4	45.3	60.4	95+	1997	3	65.5	1995	21	1931	23	56.0	1994	168	27	.0	.3	30.0	.0	.4	.0
Dec	66.5	39.2	52.9	99	1947	26	57.9	1980	22	1978	9	48.2	1990	378	1	.0	.0	30.7	.0	4.0	.0
Ann	87.8	56.7	72.3	122+	Jul 1995	28	96.2	Jul 1996	18	Jan 1937	22	48.2	Dec 1990	1295	3977	118.1	176.0	364.5	.0	10.0	.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: 1931-2001

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

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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	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	.51	.25	2.10	1949	12	2.58	1993	.00+	2000	3.0	1.4	.4	@	.00	.00	.03	.08	.16	.26	.40	.58	.85	1.34	1.85
Feb	.57	.32	1.27	1998	3	3.13	1998	.00+	1990	2.5	1.6	.2	.1	.00	.00	.00	.00	.09	.22	.40	.64	1.00	1.64	2.29
Mar	.34	.21	2.50	1937	16	.91	1981	.00+	1999	3.0	1.3	.1	.0	.00	.00	.00	.05	.13	.21	.30	.42	.59	.87	1.15
Apr	.11	.00	1.32	1965	4	1.08	1999	.00+	2000	.6	.3	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.08	.35	.69
May	.07	.00	.60	1979	25	.63	1979	.00+	2000	.4	.1	@	.0	.00	.00	.00	.00	.00	.00	.00	.01	.09	.23	.39
Jun	.03	.00	.88	1972	7	.93	1972	.00+	1999	.2	@	@	.0	**	**	**	**	**	**	**	**	**	**	**
Jul	.18	.05	1.22	2001	7	1.09	1984	.00+	2000	1.4	.5	.1	.0	.00	.00	.00	.00	.01	.04	.10	.19	.31	.53	.77
Aug	.65	.46	2.18+	1984	14	2.28	1984	.00+	1997	1.8	1.1	.5	.2	.00	.00	.00	.02	.13	.28	.47	.74	1.13	1.84	2.55
Sep	.55	.01	2.56	1997	26	2.78	1997	.00+	2000	1.2	.9	.4	.1	.00	.00	.00	.00	.00	.00	.25	.57	1.01	1.78	2.54
Oct	.25	.03	2.03	1972	6	2.17	1972	.00+	1999	1.2	.5	.1	@	.00	.00	.00	.00	.00	.02	.09	.21	.41	.80	1.21
Nov	.22	.00	1.27	1987	1	1.85	1985	.00+	2000	1.0	.6	.1	.1	.00	.00	.00	.00	.00	.00	.04	.17	.37	.75	1.14
Dec	.50	.14	1.47	1941	11	3.77	1984	.00+	2000	2.1	1.3	.4	@	.00	.00	.00	.00	.03	.12	.26	.48	.84	1.52	2.25
Ann	3.98	3.49	2.56	Sep 1997	26	3.77	Dec 1984	.00+	Dec 2000	18.4	9.6	2.3	.5	1.29	1.67	2.22	2.69	3.15	3.62	4.14	4.75	5.52	6.73	7.85

+ 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: 1931-2001

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

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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	.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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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	3/14	3/06	2/28	2/23	2/18	2/14	2/09	2/03	1/26
32	2/21	2/12	2/05	1/31	1/25	1/20	1/14	1/08	12/30
28	2/09	1/28	1/19	1/10	1/01	12/21	0/00	0/00	0/00
24	12/30	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	11/06	11/12	11/16	11/19	11/22	11/25	11/28	12/02	12/07
32	11/16	11/24	11/30	12/04	12/09	12/13	12/18	12/24	12/31
28	12/02	12/13	12/21	12/29	1/07	1/20	0/00	0/00	0/00
24	12/25	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	308	297	289	282	276	269	262	254	243
32	353	339	330	322	315	308	301	292	280
28	>365	>365	>365	>365	>365	355	339	326	313
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	Ann
65	358	202	126	44	5	0	0	0	0	14	168	378	1295
60	215	96	54	15	0	0	0	0	0	2	74	234	690
57	142	52	27	6	0	0	0	0	0	0	39	159	425
55	103	30	16	3	0	0	0	0	0	0	23	119	294
50	33	6	3	0	0	0	0	0	0	0	4	44	90
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	666	732	978	1154	1443	1652	1884	1848	1599	1280	850	646	14732
55	56	119	281	467	730	962	1171	1135	909	567	182	52	6631
57	33	84	230	410	668	902	1109	1073	849	505	138	31	6032
60	13	44	164	328	575	812	1016	980	759	414	84	12	5201
65	0	10	81	207	424	662	861	825	609	270	27	1	3977
70	0	1	30	116	284	512	706	670	459	152	5	0	2935

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	420	537	735	921	1197	1414	1638	1601	1359	1030	613	397	420	957	1692	2613	3810	5224	6862	8463	9822	10852	11465	11862
45	271	393	580	771	1042	1264	1483	1446	1209	875	463	248	271	664	1244	2015	3057	4321	5804	7250	8459	9334	9797	10045
50	137	251	426	621	887	1114	1328	1291	1059	720	316	115	137	388	814	1435	2322	3436	4764	6055	7114	7834	8150	8265
55	46	127	275	471	732	964	1173	1136	909	565	175	34	46	173	448	919	1651	2615	3788	4924	5833	6398	6573	6607
60	4	46	147	325	577	814	1018	981	759	411	77	1	4	50	197	522	1099	1913	2931	3912	4671	5082	5159	5160
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	279	349	465	573	737	831	981	968	832	646	397	266	279	628	1093	1666	2403	3234	4215	5183	6015	6661	7058	7324

(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