U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography of the United States No. 20 1971-2000

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

Station: BLUE CANYON, CA **COOP ID: 040897**

Climate Division: CA 2 **NWS Call Sign: BLU** **Elevation: 5,280 Feet** **Lat: 39˚17N** **Lon: 120˚43W**

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	44.7	32.9	38.8	71	1962	31	45.4	1984	5+	1950	3	32.5	1973	813	0	.0	.0	9.6	2.8	16.4	.0
Feb	44.9	32.7	38.8	73	1954	8	45.9	1988	6	1949	13	34.8	1998	733	0	.0	.0	11.0	2.0	15.0	.0
Mar	46.4	33.0	39.7	72	1966	31	45.5	1986	9	1956	6	33.8	1973	769	0	.0	.0	11.4	2.1	15.3	.0
Apr	52.5	36.5	44.5	82	1985	13	52.4	1987	17+	1972	13	35.7	1975	617	1	.0	.0	18.4	.7	9.9	.0
May	61.0	44.3	52.7	88	1984	28	59.9	1992	21	1950	3	42.3	1977	397	15	.0	.0	26.0	.0	3.1	.0
Jun	69.7	52.0	60.9	92	1950	29	65.9	1985	28+	1952	12	55.1	1980	165	41	.0	.0	29.3	.0	.3	.0
Jul	76.9	58.3	67.6	95	1972	14	72.4	1988	36	1987	17	62.0	1983	48	129	.0	.4	30.9	.0	.0	.0
Aug	76.8	57.8	67.3	97+	1981	7	71.8	1981	35+	1968	20	60.0	1976	54	125	.0	.6	30.9	.0	.0	.0
Sep	71.4	53.1	62.3	93+	1988	4	70.3	1974	27	1971	30	52.6	1986	166	84	.0	.2	29.2	.0	.1	.0
Oct	62.3	45.9	54.1	88	1980	2	63.1	1988	17	1971	28	46.8	1984	367	28	.0	.0	26.6	.1	2.1	.0
Nov	49.4	36.2	42.8	78+	1976	3	52.5	1976	2	1990	2	34.7	1994	667	0	.0	.0	14.8	.9	10.1	.0
Dec	45.6	32.6	39.1	75	1958	2	47.8	1980	3	1972	9	30.5	1971	803	0	.0	.0	10.5	2.5	15.6	.0
Ann	58.5	42.9	50.7	97+	Aug 1981	7	72.4	Jul 1988	2	Nov 1990	2	30.5	Dec 1971	5599	423	.0	1.2	248.6	11.1	87.9	.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/normals/usnormals.html

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	11.72	11.03	8.70	1963	31	32.20	1995	.74	1984
Feb	11.57	9.63	8.57	1986	17	37.71	1986	.84	1988
Mar	10.50	8.04	5.21	1986	7	31.87	1995	1.44	1994
Apr	4.98	4.14	3.95	1982	11	13.38	1982	1.04	1977
May	2.93	2.35	5.13	1957	18	8.29	1996	.06	1985
Jun	.88	.64	1.96	1971	26	2.48	1995	.00+	1990
Jul	.37	.05	4.59	1974	8	5.86	1974	.00+	2000
Aug	.43	.13	2.59	1968	19	3.68	1976	.00+	1998
Sep	1.44	.78	3.06	1986	24	7.05	1986	.00+	1995
Oct	3.86	3.54	7.37	1962	13	10.05	1982	.00	1990
Nov	8.97	7.15	8.56	1950	20	28.36	1973	1.04	1986
Dec	8.71	5.91	9.33	1964	22	24.82	1981	.07	1989
Ann	66.36	61.64	9.33	Dec 1964	22	37.71	Feb 1986	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.5	10.3	6.6	3.9
Feb	12.5	10.0	6.7	4.1
Mar	13.5	10.8	6.6	3.6
Apr	10.3	7.5	3.3	1.3
May	7.7	4.6	2.0	.9
Jun	3.6	1.8	.6	.2
Jul	.9	.4	.2	.1
Aug	1.5	.9	.3	.1
Sep	3.4	2.3	1.0	.5
Oct	6.1	4.8	2.4	1.1
Nov	11.3	8.7	5.3	3.0
Dec	11.7	9.3	5.7	3.5
Ann	95.0	71.4	40.7	22.3

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.46	2.39	4.04	5.68	7.41	9.33	11.56	14.32	18.06	24.21	30.17
Feb	1.48	2.40	4.04	5.65	7.36	9.24	11.43	14.14	17.80	23.80	29.62
Mar	1.66	2.56	4.08	5.53	7.02	8.66	10.53	12.82	15.88	20.85	25.61
Apr	1.04	1.50	2.23	2.89	3.56	4.28	5.09	6.06	7.34	9.39	11.33
May	.23	.42	.80	1.21	1.66	2.17	2.78	3.56	4.64	6.44	8.23
Jun	.00	.00	.17	.32	.47	.64	.85	1.10	1.44	2.01	2.57
Jul	.00	.00	.00	.00	.02	.06	.15	.31	.58	1.02	1.61
Aug	.00	.00	.00	.00	.04	.12	.24	.43	.72	1.28	1.87
Sep	.00	.00	.02	.13	.31	.58	.97	1.53	2.41	4.05	5.79
Oct	.06	.25	.70	1.22	1.84	2.57	3.48	4.65	6.32	9.18	12.07
Nov	.93	1.59	2.83	4.08	5.42	6.94	8.72	10.95	13.99	19.03	23.95
Dec	.57	1.10	2.19	3.37	4.71	6.27	8.15	10.55	13.89	19.55	25.17
Ann	33.18	38.77	46.37	52.45	58.05	63.64	69.58	76.34	84.77	97.44	108.78

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	44.5	47.3	18	14	27.1	1982	4	98.8	1982	129	1971	15	82	1971	8.9	6.7	4.9	3.5	1.2	24.9	22.8	20.4	17.2
Feb	48.3	42.4	26	28	28.6	1985	7	121.6	1979	87	1979	23	58	1971	8.5	7.1	5.2	3.5	1.6	24.3	22.4	21.6	18.8
Mar	50.5	41.9	22	14	26.6	1982	31	130.7	1982	94	1979	1	58	1979	9.9	7.5	5.7	3.8	1.3	24.4	22.9	21.6	18.9
Apr	24.7	22.1	13	4	17.6	1982	3	64.8	1978	111	1982	4	61	1975	6.6	4.7	2.6	1.8	.7	14.7	12.9	11.7	9.4
May	6.0	4.5	2	4	19.4	1980	9	23.8	1980	49	1983	1	20	1983	2.5	1.4	.6	.3	.1	4.2	2.8	2.4	1.9
Jun	.5	.0	#	0	6.5	1988	7	7.2	1988	3	1988	8	#	1988	.3	.1	.1	.1	.0	.2	.1	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	1988	.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	.4	.0	#	0	6.1	1971	29	7.4	1971	2	1971	30	#	1971	.2	.1	.1	.1	.0	.1	.0	.0	.0
Oct	4.1	1.5	#	0	13.8	1984	16	16.1	1981	6	1985	22	#	1985	1.4	.8	.5	.3	.1	.8	.2	.2	.0
Nov	27.1	22.8	3	1	19.0	1982	29	69.9	1984	31	1985	30	12	1985	6.5	5.1	2.8	2.2	.6	10.1	8.1	6.7	4.6
Dec	34.0	31.2	9	8	21.1	1979	24	90.6	1971	56+	1971	31	25	1973	7.8	5.7	3.6	2.4	1.1	19.0	16.3	14.5	11.1
Ann	240.1	213.7	N/A	N/A	28.6	Feb 1985	7	130.7	Mar 1982	129	Jan 1971	15	82	Jan 1971	52.6	39.2	26.1	18.0	6.7	122.7	108.5	99.1	81.9

+ 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	6/20	6/12	6/07	6/02	5/29	5/24	5/20	5/14	5/06
32	6/05	5/28	5/22	5/17	5/12	5/07	5/02	4/26	4/18
28	5/20	5/10	5/03	4/27	4/22	4/16	4/10	4/03	3/25
24	5/02	4/20	4/12	4/04	3/28	3/21	3/14	3/05	2/21
20	4/21	4/05	3/24	3/13	3/03	2/20	2/08	1/23	0/00
16	2/21	2/07	1/27	1/16	1/04	12/13	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	9/22	9/30	10/05	10/10	10/15	10/19	10/24	10/29	11/06
32	10/04	10/12	10/18	10/23	10/28	11/01	11/06	11/12	11/21
28	10/21	10/28	11/03	11/08	11/12	11/17	11/21	11/27	12/05
24	11/03	11/13	11/21	11/27	12/03	12/09	12/15	12/23	1/02
20	11/15	11/27	12/07	12/15	12/23	12/31	1/11	1/26	0/00
16	12/04	12/20	1/02	1/15	1/31	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	171	160	152	145	138	132	125	117	105
32	205	192	183	175	168	161	153	144	131
28	241	228	219	211	204	196	189	180	167
24	298	281	269	258	249	239	229	217	200
20	>365	>365	>365	318	294	277	263	247	227
16	>365	>365	>365	>365	>365	>365	>365	337	310

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	813	733	769	617	397	165	48	54	166	367	667	803	5599
60	658	593	628	474	268	81	12	14	90	249	521	648	4236
57	565	509	537	392	204	46	4	5	56	190	439	560	3507
55	503	453	478	340	167	30	1	2	40	156	385	503	3058
50	356	320	337	226	91	8	0	0	15	85	263	363	2064
32	25	23	31	16	1	0	0	0	0	1	25	49	171

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	235	214	271	391	642	866	1104	1094	908	685	348	269	7027
55	0	0	5	24	94	205	392	383	258	127	19	10	1517
57	0	0	2	17	69	162	332	324	215	99	13	5	1238
60	0	0	0	8	40	107	247	240	159	65	5	0	871
65	0	0	0	1	15	41	129	125	84	28	0	0	423
70	0	0	0	0	3	11	51	48	34	10	0	0	157

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	83	93	91	193	404	631	860	851	680	443	153	94	83	176	267	460	864	1495	2355	3206	3886	4329	4482	4576
45	33	42	34	105	274	484	705	697	535	311	81	38	33	75	109	214	488	972	1677	2374	2909	3220	3301	3339
50	8	10	7	45	166	340	552	542	392	193	34	7	8	18	25	70	236	576	1128	1670	2062	2255	2289	2296
55	0	0	0	12	88	215	402	390	263	99	9	0	0	0	0	12	100	315	717	1107	1370	1469	1478	1478
60	0	0	0	1	32	113	251	251	149	41	0	0	0	0	0	1	33	146	397	648	797	838	838	838
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	31	46	36	92	210	363	554	546	408	232	65	37	31	77	113	205	415	778	1332	1878	2286	2518	2583	2620

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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