

Climatography of the United States

No. 20

1971-2000

Station: BLANCA, CO

COOP ID: 050776

Climate Division: CO 5

NWS Call Sign:

Elevation: 7,750 Feet Lat: 37° 26N

Lon: 105° 31W

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	34.2	1.5	17.9	61	1971	20	27.5	1999	-38+	1971	7	4.7	1992	1462	0	.0	.0	2.0	12.2	31.0	13.6
Feb	40.2	9.2	24.7	64	1986	25	35.2	1995	-24	1989	6	13.8	1974	1128	0	.0	.0	5.7	6.2	28.2	6.2
Mar	48.5	19.0	33.8	72	1997	22	38.8	1999	-14	1971	1	28.6	1984	969	0	.0	.0	15.3	1.3	30.6	.4
Apr	57.0	25.9	41.5	80	1981	30	48.3	1981	1	1983	5	36.2	1975	708	0	.0	.0	23.8	.3	25.4	.0
May	66.5	34.7	50.6	87	2000	30	56.3	1996	8	1962	1	46.8	1983	446	0	.0	.0	30.0	.0	11.9	.0
Jun	77.2	42.8	60.0	97	1961	30	63.6	1981	22	1971	5	56.7	1983	165	13	.0	.3	30.0	.0	1.5	.0
Jul	81.1	48.2	64.7	97	1964	10	67.8	1980	34+	1993	6	61.9	1995	55	44	.0	.8	31.0	.0	.0	.0
Aug	78.8	46.4	62.6	91	1960	20	65.8	1995	29+	1964	28	58.5	1974	101	26	.0	.1	31.0	.0	@	.0
Sep	72.3	37.7	55.0	88+	1970	12	59.1	1998	16+	1999	30	49.9	1975	306	4	.0	.0	29.9	.0	6.3	.0
Oct	61.6	26.2	43.9	80+	1980	2	47.2	1992	-4	1975	24	39.3	1976	654	0	.0	.0	27.4	.3	25.4	.1
Nov	46.3	13.9	30.1	71	1980	10	36.7	1981	-16	1976	28	20.7	1972	1048	0	.0	.0	12.6	3.7	29.5	3.0
Dec	35.8	3.4	19.6	59	1977	6	31.2	1980	-34	1961	12	7.5	1991	1407	0	.0	.0	2.5	10.4	31.0	11.5
Ann	58.3	25.7	42.0	97+	Jul 1964	10	67.8	Jul 1980	-38+	Jan 1971	7	4.7	Jan 1992	8449	87	.0	1.2	241.2	34.4	220.8	34.8

+ 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

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

006-A

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: BLANCA, CO

COOP ID: 050776

Climate Division: CO 5

NWS Call Sign:

Elevation: 7,750 Feet Lat: 37°26N

Lon: 105°31W

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	.32	.29	.48+	1979	17	.96	1979	.00+	1998	3.7	1.1	.0	.0	.00	.02	.07	.12	.18	.24	.31	.40	.52	.72	.91
Feb	.31	.20	.54	1963	10	1.13	1987	.00	1995	3.2	1.1	.1	.0	.01	.03	.08	.12	.17	.23	.30	.38	.50	.69	.89
Mar	.58	.56	.80	2000	31	1.81	1990	.00	1971	5.2	2.0	.2	.0	.01	.05	.12	.21	.30	.41	.54	.71	.94	1.34	1.74
Apr	.64	.60	1.05	1986	2	2.39	1986	.04	2000	4.7	2.3	.2	@	.06	.10	.19	.27	.37	.48	.62	.78	1.01	1.40	1.78
May	1.00	.91	1.24	1957	9	2.95	1999	.00+	1975	6.5	2.8	.5	@	.00	.12	.30	.46	.63	.80	1.01	1.25	1.58	2.11	2.63
Jun	.73	.64	1.03	1979	8	1.87	1983	.03	1980	5.9	2.3	.2	@	.08	.14	.24	.34	.45	.57	.72	.90	1.14	1.54	1.93
Jul	1.44	1.38	1.05	1992	26	2.58	1995	.10	1987	9.3	4.4	.5	@	.47	.61	.81	.98	1.14	1.31	1.50	1.72	2.00	2.43	2.83
Aug	1.50	1.36	.90	1966	2	3.58	1982	.29	1995	10.0	4.4	.6	.0	.36	.50	.72	.91	1.11	1.31	1.54	1.81	2.17	2.74	3.27
Sep	1.01	.90	1.47	1997	21	2.94	1982	.09	1979	6.8	3.1	.3	.1	.20	.29	.44	.58	.72	.86	1.03	1.23	1.50	1.92	2.33
Oct	.79	.68	.85	1990	20	2.40	1984	.00	1995	5.5	2.6	.2	.0	.05	.14	.26	.38	.50	.63	.78	.97	1.23	1.64	2.04
Nov	.58	.58	1.08	1994	20	1.98	1994	.00	1989	4.5	1.8	.2	@	.01	.05	.12	.20	.30	.40	.53	.70	.93	1.33	1.72
Dec	.33	.26	.71	1991	12	1.18	1983	.00	1996	3.8	1.3	.1	.0	.01	.02	.06	.11	.16	.23	.30	.40	.54	.78	1.02
Ann	9.23	9.12	1.47	Sep 1997	21	3.58	Aug 1982	.00+	Jan 1998	69.1	29.2	3.1	.1	6.22	6.79	7.53	8.09	8.60	9.09	9.60	10.16	10.85	11.86	12.73

+ 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

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Station: BLANCA, CO

COOP ID: 050776

Climate Division: CO 5

NWS Call Sign:

Elevation: 7,750 Feet

Lat: 37°26N

Lon: 105°31W

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	4.6	4.0	1	1	7.0	1974	1	12.0	1994	10+	1994	31	5	1988	3.0	2.0	.6	.1	.0	9.2	3.9	2.0	.2
Feb	4.0	2.5	1	1	8.0	1982	23	14.0	1997	10	1994	3	6	1992	2.5	1.7	.4	.1	.0	8.4	2.8	1.2	.1
Mar	5.5	4.5	#	#	13.0	2000	31	17.0	1990	13	2000	31	2	1992	3.8	2.6	.5	.1	@	4.4	.4	.1	.1
Apr	4.6	4.0	#	#	12.0	1998	3	16.0	1998	12	1998	3	1	1998	2.2	1.9	.5	.2	@	1.7	.5	.2	@
May	.9	.0	#	0	6.0	1999	1	12.0	1999	9	1978	3	1	1978	.4	.3	.1	.1	.0	.3	@	@	.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	#	1973	25	#+	1973	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	2.0	.3	#	0	5.0	1979	21	7.5	1996	7	1991	31	#+	1999	1.1	.7	.3	@	.0	1.0	.3	.1	.0
Nov	4.3	2.3	#	#	13.0	1994	20	13.0	1994	13	1994	21	3	1991	2.5	1.8	.6	.2	@	5.0	1.5	.6	.0
Dec	4.7	3.5	1	#	6.0	1974	26	14.5	1983	9	1997	1	5	1997	2.8	1.8	.4	.1	.0	7.8	3.3	1.2	.0
Ann	30.6	21.1	N/A	N/A	13.0+	Mar 2000	31	17.0	Mar 1990	13+	Mar 2000	31	6	Feb 1992	18.3	12.8	3.4	.9	@	37.8	12.7	5.4	.4

+ 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

Complete documentation available from:

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Climate Division: CO 5

NWS Call Sign:

Elevation: 7,750 Feet

Lat: 37° 26N

Lon: 105° 31W

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	7/09	7/02	6/28	6/24	6/21	6/17	6/13	6/09	6/03
32	6/22	6/17	6/13	6/09	6/06	6/03	5/31	5/27	5/22
28	6/05	5/30	5/26	5/23	5/20	5/16	5/13	5/09	5/03
24	5/21	5/16	5/13	5/10	5/07	5/04	5/01	4/27	4/22
20	5/11	5/05	4/30	4/26	4/23	4/19	4/15	4/11	4/04
16	5/06	4/29	4/24	4/19	4/15	4/11	4/06	4/01	3/25
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	8/19	8/25	8/29	9/02	9/06	9/09	9/13	9/17	9/23
32	9/06	9/10	9/13	9/15	9/18	9/20	9/23	9/26	9/30
28	9/14	9/18	9/21	9/23	9/26	9/28	10/01	10/04	10/08
24	9/23	9/27	10/01	10/03	10/06	10/09	10/11	10/15	10/19
20	9/27	10/02	10/05	10/08	10/11	10/14	10/17	10/20	10/25
16	10/11	10/16	10/19	10/22	10/25	10/28	10/31	11/04	11/09
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	101	92	86	81	76	71	66	60	52
32	123	116	111	107	103	99	94	89	82
28	150	143	137	133	129	124	120	115	107
24	175	167	161	156	151	147	142	136	128
20	195	187	181	175	171	166	160	154	146
16	220	210	204	198	193	187	181	175	165

* 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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Elevation: 7,750 Feet Lat: 37° 26N Lon: 105° 31W

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	1462	1128	969	708	446	165	55	101	306	654	1048	1407	8449
60	1307	988	814	558	297	66	6	27	175	499	898	1252	6887
57	1214	904	721	469	216	31	1	9	113	407	808	1159	6052
55	1152	848	659	411	168	16	0	4	79	346	748	1097	5528
50	997	708	504	274	77	2	0	0	24	203	598	942	4329
32	490	266	76	13	0	0	0	0	0	4	162	420	1431

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	51	62	130	295	577	839	1012	948	689	372	104	37	5116
55	0	0	0	3	32	165	299	239	78	1	0	0	817
57	0	0	0	1	18	119	238	182	52	0	0	0	610
60	0	0	0	0	6	64	150	107	24	0	0	0	351
65	0	0	0	0	0	13	44	26	4	0	0	0	87
70	0	0	0	0	0	1	4	2	0	0	0	0	7

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	0	1	26	125	345	607	771	712	469	181	16	0	0	1	27	152	497	1104	1875	2587	3056	3237	3253	3253
45	0	0	2	49	207	458	616	557	324	80	0	0	0	0	2	51	258	716	1332	1889	2213	2293	2293	2293
50	0	0	0	13	97	310	461	402	186	19	0	0	0	0	0	13	110	420	881	1283	1469	1488	1488	1488
55	0	0	0	0	27	175	308	248	80	1	0	0	0	0	0	0	27	202	510	758	838	839	839	839
60	0	0	0	0	0	68	156	106	17	0	0	0	0	0	0	0	0	68	224	330	347	347	347	347
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	13	56	143	274	419	501	464	353	206	46	1	0	13	69	212	486	905	1406	1870	2223	2429	2475	2476

(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