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

COOP ID: 051186

Lon: 105°42W

Station: CABIN CREEK, CO

Climate Division: CO 4 NWS Call Sign:

									-	Гетре	eratui	re (°F)									
	Mea	In (1)						Extr	emes				Days (1) emp 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	30.2	6.8	18.5	56	1996	13	25.2	1986	-28	1979	1	11.1	1979	1441	0	.0	.0	.7	16.6	30.7	6.9
Feb	32.4	8.4	20.4	55	1979	13	26.7	2000	-26	1985	1	15.6	1975	1249	0	.0	.0	.6	11.6	28.1	4.8
Mar	36.6	12.5	24.6	62+	1987	6	29.3	1972	-21	1969	25	19.7	1988	1239	0	.0	.0	2.6	8.5	30.7	3.1
Apr	42.5	19.5	31.0	64	1992	30	38.6	1981	-14	1997	12	24.8	1983	1020	0	.0	.0	9.0	4.0	27.5	.9
May	52.1	29.0	40.6	75+	2000	31	46.0	1974	8+	1979	11	35.8	1983	758	0	.0	.0	21.7	.5	21.0	.0
Jun	63.4	37.2	50.3	84	1979	21	55.1	1977	18	1975	11	46.5	1992	441	0	.0	.0	28.3	.0	7.1	.0
Jul	68.3	41.8	55.1	83+	1983	6	59.3	1980	27	1992	22	50.9	1995	309	0	.0	.0	31.0	.0	.7	.0
Aug	66.5	40.6	53.6	78+	1986	18	57.8	2000	24	1978	15	50.0	1997	355	0	.0	.0	30.9	.0	.9	.0
Sep	60.0	33.8	46.9	78	1983	8	51.6	1998	9	1985	29	42.5	1996	543	0	.0	.0	27.5	.2	10.4	.0
Oct	50.0	25.4	37.7	72+	1997	6	41.4	1978	-5+	1993	30	29.9	1984	846	0	.0	.0	19.1	1.5	24.2	.2
Nov	37.1	13.7	25.4	63	1975	5	36.0	1999	-21	1979	28	18.2	1979	1187	0	.0	.0	4.3	8.9	28.9	2.7
Dec	31.9	9.0	20.5	57	1998	4	30.0	1980	-23	1996	18	15.8+	1983	1381	0	.0	.0	.9	14.1	30.7	5.5
					Jun			Jul		Jan			Jan								
Ann	47.6	23.1	35.4	84	1979	21	59.3	1980	-28	1979	1	11.1	1979	10769	0	.0	.0	176.6	65.9	240.9	24.1

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 014-A

(1) From the 1971-2000 Monthly Normals

Elevation: 10,020 Feet Lat: 39°39N

- (2) Derived from station's available digital record: 1968-2001
- (3) Derived from 1971-2000 serially complete daily data

[@] Denotes mean number of days greater than 0 but less than .05

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Climate Division: CO 4 NWS Call Sign: Elevation: 10,020 Feet Lat: 39°39N Lon: 105°42W

										Pı	recipi	tation	(incl	hes)												
	Me	ans/	P	recip	itatio	on Total					ean N of D	ays (3	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												
	Medi	ans(1)				Extremes	•			1	any Pre	стриацо	n		Th	ese value	s were det	termined	from the	incomplet	e gamma	distribut	ion			
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	.68	.54	.80	1999	24	2.85	1996	.02	1995	5.9	3.1	.2	.0	.05	.09	.18	.27	.38	.50	.64	.83	1.08	1.51	1.94		
Feb	.84	.74	.80+	1996	21	1.76	1989	.02	1973	5.7	3.0	.2	.0	.16	.24	.36	.47	.59	.71	.85	1.02	1.24	1.60	1.93		
Mar	1.62	1.64	1.24	1990	7	3.45	1992	.49	1989	8.1	5.0	.8	.2	.50	.65	.88	1.08	1.27	1.47	1.69	1.94	2.28	2.79	3.27		
Apr	2.49	2.08	3.00	1999	25	8.55	1999	.37	1981	8.9	6.5	1.4	.4	.70	.94	1.30	1.61	1.91	2.23	2.58	3.00	3.54	4.39	5.18		
May	2.09	1.73	4.28	1969	7	5.34	1995	.04	1974	9.3	5.2	1.1	.3	.36	.55	.85	1.14	1.43	1.75	2.11	2.55	3.14	4.09	4.99		
Jun	1.78	1.52	1.40	1992	1	4.93	1992	.02	1971	8.4	5.2	1.0	.1	.25	.40	.65	.90	1.16	1.44	1.77	2.17	2.72	3.61	4.47		
Jul	2.53	2.50	1.52	1984	26	4.48	1984	.64	1978	12.6	7.3	1.1	.1	1.06	1.29	1.62	1.88	2.13	2.38	2.66	2.97	3.37	3.97	4.52		
Aug	2.74	2.70	1.25	1992	25	5.45	1984	.51	1985	14.9	8.7	1.2	.1	.88	1.14	1.53	1.85	2.17	2.49	2.85	3.27	3.81	4.64	5.41		
Sep	1.59	1.41	1.37	1970	22	4.01	1993	.17	1979	9.0	4.9	.8	.0	.40	.55	.78	.99	1.19	1.40	1.64	1.93	2.30	2.88	3.44		
Oct	1.19	.94	1.60	1999	19	3.09	1984	.29	2000	6.3	3.5	.5	.1	.31	.42	.60	.75	.90	1.05	1.23	1.44	1.71	2.13	2.53		
Nov	1.10	1.10	1.20	1998	18	2.61	1983	.18	2000	6.5	3.6	.4	.1	.28	.38	.54	.68	.82	.97	1.14	1.33	1.59	1.99	2.37		
Dec	.78	.73	1.12	1982	24	2.22	1973	.10	1991	6.0	2.9	.2	@	.14	.21	.32	.43	.54	.65	.79	.95	1.16	1.51	1.84		
Ann	19.43	19.90	4.28	May 1969	7	8.55	Apr 1999	.02+	Jan 1995	101.6	58.9	8.9	1.4	13.87	14.95	16.33	17.38	18.31	19.21	20.14	21.17	22.41	24.21	25.77		

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] 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: 1968-2001

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

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Climate Division: CO 4 NWS Call Sign: Elevation: 10,020 Feet Lat: 39°39N Lon: 105°42W

	Snow (inches) Snow Totals																						
						Sno	ow To	tals									Mea	n Nu	mber	of Day	ys (1)		
	Mean	s/Medi	ans (1)	1					Extre	mes (2)							ow Fa			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	9.1	8.5	6	5	14.0	1996	1	26.0	1975	35	1974	2	26	1982	5.1	4.1	1.6	.5	.1	-9.9	-9.9	-9.9	-9.9
Feb	13.0	11.0	5	4	16.0	1989	4	28.5	1971	30	1982	4	14	1982	5.4	4.2	1.7	.8	.2	19.4	14.6	10.9	4.4
Mar	24.8	25.3	4	3	29.0	1990	7	61.2	1990	25	1990	15	17	1990	6.9	5.7	3.3	1.8	.3	21.3	15.3	8.7	2.2
Apr	22.9	20.5	4	3	24.0	1998	26	72.2	1998	28	1984	21	15	1997	6.5	5.6	2.9	1.8	.6	14.3	9.9	7.5	2.5
May	9.4	3.3	1	#	22.5	1982	13	38.6	1995	22	1973	6	3	1982	2.0	1.6	1.0	.5	.3	2.4	1.4	1.0	.2
Jun	1.9	.0	#	0	14.0	1975	10	17.0	1975	8	1975	10	1	1975	.4	.3	.3	.2	.1	.1	.1	.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	.1	.0	0	0	2.0	1992	25	2.0	1992	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Sep	3.1	.0	#	0	14.0	1971	17	19.0	1971	10	1971	18	1	1971	.6	.6	.4	.3	@	.6	.2	.1	@
Oct	7.5	5.2	#	#	17.0	1997	25	18.0	1978	14	1984	16	4	1984	3.1	2.5	1.2	.6	.1	2.2	.9	.4	.1
Nov	15.7	11.5	3	2	24.0	1979	20	35.5	1972	20	1983	30	7	1983	5.6	4.2	2.0	1.0	.2	12.9	9.8	5.2	1.4
Dec	13.6	9.3	5	3	20.0	1982	24	53.2	1973	35	1973	31	21	1983	5.0	4.1	1.5	.6	.2	16.9	12.7	10.8	2.9
Ann	121.1	94.6	N/A	N/A	29.0	Mar 1990	7	72.2	Apr 1998	35+	Jan 1974	2	26	Jan 1982	40.6	32.9	15.9	8.1	2.1	-9.9	-9.9	-9.9	-9.9

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

- (1) Derived from Snow Climatology and 1971-2000 daily data
- (2) Derived from 1971-2000 daily data

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[@] 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

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Freeze Data Spring Freeze Dates (Month/Day) Probability of later date in spring (thru Jul 31) than indicated(*) Temp (F) .10 .20 .30 .40 .60 .70 .80 .90 36 8/01 7/25 7/20 7/15 7/11 7/06 7/02 6/26 6/19 32 7/08 7/03 7/15 6/28 6/24 6/20 6/16 6/11 6/04 28 6/27 6/21 6/17 6/13 6/10 6/06 6/03 5/30 5/24 5/06 24 6/09 6/03 5/30 5/26 5/23 5/20 5/16 5/12 20 5/25 5/20 5/16 5/13 5/09 5/06 5/03 4/29 4/24 5/09 5/02 4/29 16 5/14 5/05 4/26 4/23 4/20 4/15 Fall Freeze Dates (Month/Day) Probability of earlier date in fall (beginning Aug 1) than indicated(*) Temp (F) .20 .30 .40 .50 .70 .10 .60 .80 .90 36 7/31 8/07 8/12 8/16 8/20 8/24 8/28 9/02 9/09 32 8/22 8/28 9/01 9/04 9/08 9/11 9/14 9/19 9/24 28 8/29 9/04 9/09 9/13 9/16 9/20 9/24 9/29 10/05 24 9/09 9/15 9/19 9/23 9/27 9/30 10/04 10/09 10/15 20 9/18 9/25 9/29 10/03 10/07 10/10 10/14 10/19 10/25 9/23 10/09 10/13 10/17 10/22 10/27 11/02 16 9/30 10/05 Freeze Free Period **Probability of longer than indicated freeze free period (Days)** Temp (F) .10 .20 .30 .40 .50 .60 .70 .80 .90 77 55 47 40 32 24 15 2 36 64 32 105 94 87 80 74 62 55 44 68 28 125 116 109 103 98 92 86 80 70 24 154 144 137 131 126 120 115 108 98 155 139 124 20 175 167 160 150 145 133

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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

Complete do

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Complete documentation available from:

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Elevation: 10.020 Feet

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^{*} Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

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	Degree Days to Selected Base Temperatures (°F)														
Base						Heatin	g Degree	Days (1)							
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
65	1441	1249	1239	1020	758	441	309	355	543	846	1187	1381	10769		
60	1286	1109	1100	870	603	296	167	205	393	691	1037	1226	8983		
57	1193	1025	1007	780	510	216	100	124	308	598	947	1133	7941		
55	1131	969	945	720	448	169	67	82	253	536	887	1071	7278		
50	976	829	790	570	298	76	14	18	137	385	737	916	5746		
32	418	326	251	130	12	0	0	0	0	36	240	364	1777		

Base	Cooling Degree Days (1)														
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
32	0	1	19	100	277	549	714	668	447	213	43	6	3037		
55	0	0	0	0	0	28	68	37	10	0	0	0	143		
57	0	0	0	0	0	15	39	17	5	0	0	0	76		
60	0	0	0	0	0	6	13	4	0	0	0	0	23		
65	0	0	0	0	0	0	0	0	0	0	0	0	0		
70	0	0	0	0	0	0	0	0	0	0	0	0	0		

	Growing Degree U																											
Base	Growing Degree Units (Monthly)														Growing Degree Units (Accumulated Monthly)													
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec J														Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
40	0	0	0	27	119	337	485	440	259	80	9	0	0	0	0	27	146	483	968	1408	1667	1747	1756	1756				
45	0	0	0	2	46	201	333	287	131	22	0	0	0	0	0	2	48	249	582	869	1000	1022	1022	1022				
50	0	0	0	0	6	98	181	140	48	2	0	0	0	0	0	0	6	104	285	425	473	475	475	475				
55	0	0	0	0	0	30	63	33	10	0	0	0	0	0	0	0	0	30	93	126	136	136	136	136				
60	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	2	5	5	5	5	5	5				
Base	Growing Degree Units for Corn (Monthly)													•	Gr	owing D	egree Ur	its for C	orn (Acc	umulate	d Month	ly)						
50/86	0 0 0 24 90 225 299 270 180 70 7 0												0	0	0	24	114	339	638	908	1088	1158	1165	1165				

(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

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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