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: TACONY 10 SE, CO **COOP ID: 058157**

Climate Division: CO 1 **NWS Call Sign:** **Elevation: 4,960 Feet** **Lat: 38˚24N** **Lon: 104˚03W**

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	45.1	14.3	29.7	76+	1997	31	39.8	1986	-27	1963	12	17.3	1979	1094	0	.0	.0	12.1	5.6	30.6	3.4
Feb	50.9	19.1	35.0	78	1986	26	41.5+	2000	-23	1996	3	25.0	1989	840	0	.0	.0	16.5	3.3	26.9	1.5
Mar	58.9	25.7	42.3	85	1971	26	48.1	1986	-18	1960	3	37.8	1984	704	0	.0	.0	24.5	.8	25.0	.2
Apr	67.3	33.5	50.4	93+	1992	30	57.2	1981	1	1975	2	44.3	1983	440	3	.0	.1	27.7	.2	13.0	.0
May	75.8	43.9	59.9	100	1996	18	65.1	1996	23	1967	1	54.5	1995	192	33	@	1.7	30.6	.0	1.7	.0
Jun	87.3	52.8	70.1	107+	1990	29	74.2	1981	35+	1970	8	65.4	1995	25	175	1.8	12.9	30.0	.0	.0	.0
Jul	91.9	58.2	75.1	107	1969	3	78.6	1980	43	1994	8	71.8	1990	0	311	3.2	20.5	31.0	.0	.0	.0
Aug	89.0	56.7	72.9	106+	1969	8	76.8	1983	40	1993	31	69.6	1992	3	247	.8	16.3	31.0	.0	.0	.0
Sep	81.7	47.9	64.8	102	1971	7	68.6	1998	24+	1985	29	61.7	1993	79	72	.2	6.0	29.8	.0	1.0	.0
Oct	70.3	35.8	53.1	91+	2000	3	56.3	1973	5	1991	29	48.5	1984	372	1	.0	.2	29.7	.2	9.9	.0
Nov	54.9	23.4	39.2	82+	1980	6	46.5	1999	-13	1955	16	32.0	1972	777	0	.0	.0	19.2	1.8	26.1	.4
Dec	46.6	16.2	31.4	77	1980	17	39.8	1980	-28	1990	22	20.5	1983	1042	0	.0	.0	12.6	4.5	30.3	2.6
Ann	68.3	35.6	52.0	107+	Jun 1990	29	78.6	Jul 1980	-28	Dec 1990	22	17.3	Jan 1979	5568	842	6.0	57.7	294.7	16.4	164.5	8.1

\+ 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: 1955-2001

(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	.21	.18	.70	2001	16	.52	1979	.00	1995
Feb	.18	.09	.76	1987	15	1.38	1987	.00+	1992
Mar	.54	.43	1.52	1990	6	2.59	1990	.03	1975
Apr	1.00	.90	2.18	1997	24	2.90	1980	.04	1981
May	1.61	1.44	1.60	1963	16	3.39	1987	.47	1986
Jun	1.42	1.31	2.10	1979	24	4.43	1995	.10	1981
Jul	1.99	1.79	2.30	2000	17	3.97	1984	.59	1983
Aug	2.25	2.06	1.98+	1965	19	4.66	1994	.41	1971
Sep	.93	.82	1.63	2001	17	2.88	1972	.07	1975
Oct	.65	.46	1.40	1997	12	1.96	1997	.00	1988
Nov	.35	.25	.72	1957	2	1.26	1991	.00+	1995
Dec	.24	.20	.57	1979	22	1.13	1979	.00+	1995
Ann	11.37	11.44	2.30	Jul 2000	17	4.66	Aug 1994	.00+	Dec 1995

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.9	.6	.0	.0
Feb	2.1	.6	@	.0
Mar	4.6	1.5	.2	@
Apr	5.6	2.5	.7	.2
May	8.1	4.1	1.1	.1
Jun	6.5	3.4	.7	.2
Jul	8.3	4.2	1.0	.4
Aug	8.3	4.9	1.4	.5
Sep	4.8	2.2	.5	.2
Oct	3.5	1.6	.4	.1
Nov	3.0	1.2	.1	.0
Dec	2.6	.9	@	.0
Ann	60.3	27.7	6.1	1.7

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	.01	.03	.06	.09	.13	.16	.20	.26	.33	.45	.57
Feb	.00	.00	.00	.03	.06	.10	.15	.22	.31	.47	.62
Mar	.05	.08	.15	.23	.31	.40	.51	.65	.84	1.17	1.48
Apr	.11	.18	.32	.46	.61	.78	.98	1.23	1.56	2.12	2.67
May	.41	.56	.79	1.00	1.21	1.42	1.66	1.95	2.32	2.91	3.46
Jun	.15	.26	.46	.66	.87	1.11	1.39	1.73	2.21	2.99	3.75
Jul	.54	.73	1.02	1.27	1.52	1.78	2.06	2.40	2.84	3.53	4.18
Aug	.55	.76	1.09	1.38	1.67	1.97	2.31	2.72	3.25	4.09	4.87
Sep	.09	.16	.28	.41	.56	.71	.90	1.14	1.46	1.99	2.52
Oct	.02	.06	.14	.23	.34	.46	.60	.79	1.05	1.49	1.92
Nov	.00	.00	.06	.12	.18	.25	.33	.44	.58	.83	1.07
Dec	.00	.00	.04	.08	.12	.17	.23	.30	.40	.57	.74
Ann	7.14	7.92	8.94	9.73	10.44	11.13	11.86	12.67	13.67	15.13	16.41

\+ 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: 1955-2001
(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	4.3	3.5	1	1	8.0	1990	19	10.5+	1988	8	1990	19	4	1988	3.4	1.3	.4	.1	.0	7.2	3.8	.7	.0
Feb	3.1	2.7	#	#	5.8	1990	20	8.7	1988	5	1990	20	1	1993	2.8	1.0	.2	@	.0	2.2	.6	@	.0
Mar	5.0	5.3	#	#	10.0	1974	10	11.0	1974	7	1972	28	1	1998	2.8	1.5	.6	.2	@	1.2	.4	.1	.0
Apr	3.8	2.0	#	#	11.0	1974	13	23.0	1994	8	1974	13	1	1994	1.4	1.0	.5	.2	@	.6	.2	.1	.0
May	.8	.0	#	0	12.0	1990	3	12.0	1990	6	1990	3	#+	1990	.2	.1	.1	.1	@	.1	@	@	.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	#	1996	19	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.3	.0	#	0	3.2	1971	18	3.2	1971	2	1984	28	#+	1984	.2	.1	@	.0	.0	@	.0	.0	.0
Oct	1.3	.0	#	0	7.0	1972	31	9.4	1991	8	1991	31	#+	1996	.6	.3	.2	.1	.0	.2	.1	.1	.0
Nov	4.7	3.2	#	#	11.5	1985	14	17.1	1972	11	1985	14	2	1997	2.5	1.3	.5	.3	.1	3.2	1.2	.4	.1
Dec	4.6	5.0	1	1	6.5	1991	31	13.7	1979	9	1979	28	3	1978	3.0	1.4	.7	.2	.0	6.6	2.4	.6	.0
Ann	27.9	21.7	N/A	N/A	12.0	May 1990	3	23.0	Apr 1994	11	Nov 1985	14	4	Jan 1988	16.9	8.0	3.2	1.2	.1	21.3	8.7	2.0	.1

+ 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	5/25	5/21	5/18	5/15	5/13	5/10	5/08	5/05	5/01
32	5/19	5/14	5/11	5/09	5/06	5/04	5/01	4/28	4/24
28	5/04	4/30	4/27	4/25	4/22	4/20	4/18	4/15	4/11
24	4/22	4/19	4/17	4/15	4/13	4/11	4/09	4/06	4/03
20	4/20	4/15	4/12	4/09	4/06	4/03	3/31	3/28	3/23
16	4/11	4/04	3/30	3/25	3/21	3/17	3/13	3/08	3/01

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	9/14	9/18	9/21	9/23	9/25	9/28	9/30	10/03	10/06
32	9/20	9/24	9/27	9/30	10/02	10/04	10/07	10/10	10/14
28	9/26	10/01	10/05	10/08	10/11	10/14	10/17	10/20	10/25
24	10/08	10/13	10/17	10/20	10/23	10/26	10/30	11/03	11/08
20	10/20	10/24	10/27	10/30	11/02	11/04	11/07	11/11	11/15
16	10/26	10/31	11/04	11/07	11/10	11/13	11/17	11/21	11/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	154	147	143	139	135	131	127	122	116
32	168	161	156	152	148	144	140	135	128
28	187	181	177	174	171	168	164	160	155
24	211	205	200	196	193	189	186	181	175
20	226	220	216	212	209	206	202	198	193
16	262	252	245	239	233	228	222	214	205

***** 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	1094	840	704	440	192	25	0	3	79	372	777	1042	5568
60	939	700	549	301	95	5	0	0	23	225	627	887	4351
57	846	616	456	226	56	1	0	0	8	151	539	794	3693
55	784	560	395	182	37	0	0	0	3	110	482	732	3285
50	632	427	253	94	10	0	0	0	0	43	347	579	2385
32	188	77	7	0	0	0	0	0	0	0	49	147	468

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	117	161	327	552	864	1141	1334	1267	984	652	262	128	7789
55	0	0	2	44	188	451	621	554	297	49	6	0	2212
57	0	0	1	29	145	392	559	492	241	28	3	0	1890
60	0	0	0	13	91	306	466	399	167	9	0	0	1451
65	0	0	0	3	33	175	311	247	72	1	0	0	842
70	0	0	0	0	7	78	163	114	21	0	0	0	383

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	23	53	153	334	623	904	1089	1025	752	415	106	29	23	76	229	563	1186	2090	3179	4204	4956	5371	5477	5506
45	2	19	69	214	470	754	934	870	602	277	44	5	2	21	90	304	774	1528	2462	3332	3934	4211	4255	4260
50	0	0	25	112	326	604	779	715	453	157	12	0	0	0	25	137	463	1067	1846	2561	3014	3171	3183	3183
55	0	0	3	44	195	455	624	560	316	67	0	0	0	0	3	47	242	697	1321	1881	2197	2264	2264	2264
60	0	0	0	12	89	311	469	405	189	20	0	0	0	0	0	12	101	412	881	1286	1475	1495	1495	1495
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	50	92	169	273	408	561	683	648	481	320	123	56	50	142	311	584	992	1553	2236	2884	3365	3685	3808	3864

(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