

# Climatography of the United States

No. 20

1971-2000

Station: TELLURIDE 4 WNW, CO

COOP ID: 058204

Climate Division: CO 2

NWS Call Sign:

Elevation: 8,672 Feet Lat: 37° 57N

Lon: 107° 52W

## 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	37.0	1.8	19.4	80	1911	28	25.2	1993	-32+	1963	13	13.3	1979	1413	0	.0	.0	2.4	9.1	30.9	9.4
Feb	40.0	6.2	23.1	65+	1986	26	28.5	1995	-36	1933	8	19.1	1985	1174	0	.0	.0	4.2	5.3	28.2	5.2
Mar	44.0	14.0	29.0	75	1929	31	35.3	1999	-20	1932	12	24.5	1980	1116	0	.0	.0	9.2	2.2	30.5	2.0
Apr	51.0	21.7	36.4	78+	1992	27	43.7	1992	-10+	1980	1	30.1	1973	859	0	.0	.0	19.3	.9	26.8	.2
May	61.3	30.1	45.7	83	1984	29	49.6	1984	3	1930	10	41.5	1995	600	0	.0	.0	27.9	@	19.1	.0
Jun	72.7	35.8	54.3	91	1901	29	59.3	1990	15	1937	6	50.5	1995	325	2	.0	@	29.9	.0	7.0	.0
Jul	77.1	40.9	59.0	96	1922	15	61.9	1989	26	1941	4	56.1	1995	186	1	.0	.3	31.0	.0	.5	.0
Aug	74.9	40.6	57.8	91	1979	4	60.2	2000	20	1939	20	54.5	1976	225	0	.0	@	31.0	.0	1.0	.0
Sep	68.6	33.4	51.0	88+	1990	13	55.2	1998	9	1931	25	47.4	1971	421	0	.0	.0	29.5	.0	9.2	.0
Oct	59.2	23.4	41.3	85	1948	3	45.4	1992	0+	1956	30	34.8	1984	736	0	.0	.0	25.9	.4	25.9	.0
Nov	45.0	11.6	28.3	73	1941	10	34.6	1999	-22	1931	24	21.9	1992	1102	0	.0	.0	11.1	3.5	29.4	2.6
Dec	37.8	3.1	20.5	66	1973	18	29.2	1980	-27	1949	12	15.5	1978	1381	0	.0	.0	3.1	7.4	30.9	7.6
Ann	55.7	21.9	38.8	96	Jul 1922	15	61.9	Jul 1989	-36	Feb 1933	8	13.3	Jan 1979	9538	3	.0	.3	224.5	28.8	239.4	27.0

+ 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](http://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: 1900-2001

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

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## No. 20 1971-2000

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

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**COOP ID: 058204**

**Climate Division: CO 2**

**NWS Call Sign:**

**Elevation: 8,672 Feet Lat: 37° 57N**

**Lon: 107° 52W**

### Precipitation (inches)

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days <sup>(3)</sup>				Precipitation Probabilities <sup>(1)</sup> Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians <sup>(1)</sup>		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily <sup>(2)</sup>	Year	Day	Highest Monthly <sup>(1)</sup>	Year	Lowest Monthly <sup>(1)</sup>	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.70	1.49	1.60	1918	12	4.07	1979	.33	1986	10.9	5.9	.5	@	.40	.56	.81	1.03	1.25	1.49	1.75	2.06	2.47	3.12	3.73
Feb	1.53	1.45	2.20	1936	3	3.68	1993	.28	1972	10.0	5.2	.5	.1	.43	.58	.79	.99	1.17	1.37	1.58	1.84	2.17	2.69	3.17
Mar	2.18	2.49	2.10	1944	14	4.06	1995	.46	1997	12.1	6.8	.9	.1	.63	.84	1.15	1.42	1.68	1.95	2.26	2.61	3.08	3.80	4.48
Apr	1.97	1.78	2.32	1938	15	4.49	1990	.42	1989	10.6	6.2	.8	@	.64	.83	1.11	1.34	1.57	1.80	2.06	2.36	2.74	3.34	3.89
May	2.04	2.14	1.80	1941	4	4.27	1992	.13	1974	10.2	5.8	.9	.1	.44	.63	.93	1.20	1.47	1.76	2.08	2.47	2.99	3.81	4.58
Jun	1.28	1.13	1.70	1941	8	3.60	1984	.08	1980	8.0	3.6	.6	@	.19	.30	.48	.66	.84	1.04	1.28	1.56	1.94	2.57	3.17
Jul	2.43	2.32	1.70	1938	27	6.29	1999	.14	1993	13.9	8.0	1.0	.0	.62	.85	1.20	1.51	1.82	2.14	2.50	2.93	3.49	4.37	5.19
Aug	2.58	2.45	3.50	1914	26	6.27	1982	.53	1974	15.5	8.1	1.2	.1	.78	1.03	1.39	1.71	2.01	2.33	2.68	3.09	3.62	4.44	5.21
Sep	2.27	2.17	2.60	1941	22	4.54	1982	.12	1979	11.5	6.6	1.1	.1	.52	.73	1.06	1.36	1.66	1.98	2.33	2.76	3.31	4.20	5.03
Oct	2.06	1.87	3.04	1947	14	5.26	1996	.27	1999	8.8	5.3	1.3	.2	.39	.57	.88	1.15	1.44	1.74	2.09	2.51	3.06	3.95	4.80
Nov	1.89	2.08	2.40	1928	28	4.98	1986	.24	1989	9.5	5.4	.8	.1	.41	.59	.86	1.11	1.36	1.63	1.93	2.29	2.77	3.52	4.24
Dec	1.49	1.18	1.65	1950	4	5.09	1983	.09	1976	9.8	5.3	.4	.0	.28	.41	.63	.83	1.04	1.26	1.51	1.81	2.21	2.86	3.48
Ann	23.42	22.86	3.50	Aug 1914	26	6.29	Jul 1999	.08	Jun 1980	130.8	72.2	10.0	.8	17.45	18.62	20.11	21.24	22.23	23.19	24.17	25.25	26.56	28.44	30.07

+ 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: 1900-2001

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

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**Climate Division: CO 2**

**NWS Call Sign:**

**Elevation: 8,672 Feet**

**Lat: 37°57N**

**Lon: 107°52W**

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	29.4	24.5	21	19	17.0	1979	12	62.5	1980	43	1993	20	34	1984	10.1	8.8	4.8	2.3	.3	29.6	29.6	29.4	26.5
Feb	28.4	22.9	24	22	22.0	1993	20	74.0	1993	56	1993	20	42	1993	9.3	8.3	3.7	1.6	.4	27.9	27.9	27.7	25.2
Mar	35.3	39.0	20	18	22.0	1979	21	72.1	1975	44	1993	2	38	1993	10.6	9.7	5.5	3.0	.6	27.7	27.3	26.3	24.7
Apr	23.7	24.0	6	3	16.0	1990	19	55.0	1975	37	1993	3	25	1983	7.4	6.8	3.7	1.7	.2	12.0	10.4	8.5	6.0
May	9.6	5.5	#	#	16.0	1982	13	27.0+	1983	20	1990	1	2	1990	2.2	2.2	1.4	.9	.1	2.1	1.5	.9	.5
Jun	.9	.0	0	0	6.0	1979	9	8.5	1979	0	0	0	0	0	.3	.3	.1	.1	.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	.8	.0	#	0	5.0	1986	24	8.0	1986	5	1986	24	#+	1996	.3	.3	.2	@	.0	.2	.1	.1	.0
Oct	9.7	9.5	#	#	11.0	1972	30	42.0	1984	16	1984	23	6	1984	2.9	2.7	1.5	.8	@	3.5	2.0	1.5	.6
Nov	27.2	26.3	5	4	16.0	1986	1	57.0+	1991	26	1991	18	14	1992	8.1	7.2	4.1	2.1	.4	18.4	15.1	10.7	5.6
Dec	28.8	25.0	13	11	19.0	1978	2	104.3	1983	48	1983	27	31+	1983	9.3	8.2	4.2	1.8	.4	29.1	26.9	22.9	16.4
Ann	193.8	176.7	N/A	N/A	22.0+	Feb 1993	20	104.3	Dec 1983	56	Feb 1993	20	42	Feb 1993	60.5	54.5	29.2	14.3	2.4	150.5	140.8	128.0	105.5

+ 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	7/29	7/22	7/18	7/14	7/10	7/07	7/03	6/28	6/22
32	7/09	7/04	7/01	6/28	6/25	6/22	6/19	6/16	6/11
28	6/27	6/22	6/18	6/15	6/12	6/09	6/06	6/02	5/27
24	6/12	6/05	5/30	5/26	5/22	5/18	5/14	5/09	5/01
20	5/21	5/16	5/12	5/09	5/06	5/03	4/30	4/26	4/21
16	5/07	5/02	4/28	4/25	4/21	4/18	4/15	4/11	4/06
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	7/31	8/05	8/09	8/13	8/16	8/19	8/22	8/26	9/01
32	8/13	8/20	8/25	8/29	9/02	9/06	9/11	9/16	9/23
28	9/03	9/08	9/11	9/14	9/17	9/20	9/23	9/26	10/01
24	9/15	9/20	9/23	9/26	9/28	10/01	10/04	10/07	10/11
20	9/23	9/29	10/04	10/08	10/11	10/15	10/19	10/24	10/30
16	9/29	10/06	10/11	10/15	10/19	10/23	10/27	11/01	11/07
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	61	52	46	41	36	31	25	19	10
32	96	86	80	74	69	63	57	51	41
28	115	109	104	100	96	92	88	84	77
24	154	145	139	134	129	124	118	112	103
20	183	174	168	163	158	153	147	141	133
16	206	197	190	185	179	174	169	162	153

\* 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

Complete documentation available from:

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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	1413	1174	1116	859	600	325	186	225	421	736	1102	1381	9538
60	1258	1034	961	709	445	188	60	87	274	581	952	1226	7775
57	1165	950	868	619	353	122	19	36	194	488	862	1133	6809
55	1103	894	806	559	293	86	7	17	147	426	802	1071	6211
50	948	754	651	414	160	27	0	1	60	279	652	916	4862
32	391	256	159	55	1	0	0	0	0	11	172	362	1407

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1	7	66	186	425	667	838	799	569	298	60	4	3920
55	0	0	0	0	3	63	132	102	26	1	0	0	327
57	0	0	0	0	1	39	82	60	13	0	0	0	195
60	0	0	0	0	0	15	30	18	4	0	0	0	67
65	0	0	0	0	0	2	1	0	0	0	0	0	3
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	0	7	67	228	460	628	591	380	147	12	0	0	0	7	74	302	762	1390	1981	2361	2508	2520	2520
45	0	0	0	18	108	311	473	436	240	57	0	0	0	0	0	18	126	437	910	1346	1586	1643	1643	1643
50	0	0	0	0	29	174	318	281	113	13	0	0	0	0	0	0	29	203	521	802	915	928	928	928
55	0	0	0	0	1	67	169	129	30	0	0	0	0	0	0	0	1	68	237	366	396	396	396	396
60	0	0	0	0	0	11	43	28	1	0	0	0	0	0	0	0	0	11	54	82	83	83	83	83
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	7	26	89	206	358	436	402	296	176	42	2	0	7	33	122	328	686	1122	1524	1820	1996	2038	2040

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)