

# Climatography of the United States No. 20

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

Station: TAYLOR PARK, CO

1971-2000

COOP ID: 058184

Climate Division: CO 2

NWS Call Sign:

Elevation: 9,206 Feet Lat: 38°49N

Lon: 106°37W

## 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	26.7	-11.2	7.8	54	1953	24	15.9	2000	-56	1989	13	-5.3	1984	1777	0	.0	.0	.0	23.7	31.0	24.1
Feb	32.4	-9.3	11.6	51	1979	13	18.9	2000	-60	1985	1	3.2	1984	1493	0	.0	.0	.1	14.0	28.3	20.7
Mar	38.3	.9	19.6	59	1967	24	26.0	1999	-42+	1984	5	14.6	1980	1408	0	.0	.0	1.4	5.9	30.9	15.7
Apr	45.0	12.9	29.0	67	1954	18	36.0	2000	-27+	1973	8	19.5	1984	1082	0	.0	.0	9.6	2.1	29.7	4.6
May	55.5	26.0	40.8	82	1970	26	47.5	2000	-5	1984	8	32.7	1983	761	0	.0	.0	24.2	@	27.7	@
Jun	67.1	34.0	50.6	85+	1954	23	54.7	1981	15	1983	14	46.6	1995	433	0	.0	.0	29.6	.0	12.5	.0
Jul	71.1	39.9	55.5	83+	1989	7	58.5	1980	20	1986	28	51.8	1995	295	0	.0	.0	31.0	.0	1.9	.0
Aug	69.1	39.5	54.3	84	1964	15	57.0	2000	17	1985	13	51.8	1992	331	0	.0	.0	31.0	.0	3.2	.0
Sep	62.8	32.8	47.8	79+	1978	6	52.1	1997	4	1985	30	44.4	1996	515	0	.0	.0	28.5	.0	16.3	.0
Oct	52.6	23.0	37.8	73	1980	1	41.8	1988	-5	1980	29	30.7	1984	843	0	.0	.0	20.7	.6	28.6	.3
Nov	37.7	9.6	23.7	65	1952	4	32.0	1999	-30	1984	27	18.1	1979	1241	0	.0	.0	3.5	9.0	29.9	6.9
Dec	27.5	-6.1	10.7	57	1966	1	19.5	1980	-53	1986	10	4.7	1984	1685	0	.0	.0	@	21.9	31.0	21.9
Ann	48.8	16.0	32.4	85+	Jun 1954	23	58.5	Jul 1980	-60	Feb 1985	1	-5.3	Jan 1984	11864	0	.0	.0	179.6	77.2	271.0	94.2

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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

099-A

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## No. 20

### 1971-2000

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Station: TAYLOR PARK, CO

COOP ID: 058184

Climate Division: CO 2

NWS Call Sign:

Elevation: 9,206 Feet Lat: 38°49N

Lon: 106°37W

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	1.31	1.00	1.10	1974	21	3.65	1980	.15	1986	8.6	5.7	.4	@	.20	.31	.50	.68	.86	1.07	1.31	1.60	1.99	2.62	3.23
Feb	1.41	1.23	1.35	1996	21	4.20	1986	.40	1977	7.4	5.1	.7	.1	.29	.42	.62	.81	1.00	1.21	1.44	1.72	2.08	2.67	3.22
Mar	1.51	1.38	.95	1982	12	3.35	1995	.30	1997	9.4	6.6	.5	.0	.41	.56	.77	.97	1.15	1.35	1.57	1.82	2.16	2.68	3.18
Apr	1.43	1.20	1.45	1999	30	4.25	1999	.30	1979	8.6	6.1	.4	@	.43	.56	.77	.94	1.11	1.29	1.49	1.72	2.02	2.48	2.92
May	1.43	1.15	1.05	1987	24	3.25	1995	.05	1974	7.4	5.4	.6	@	.26	.39	.59	.79	.99	1.21	1.45	1.75	2.14	2.78	3.39
Jun	1.00	.93	1.30	1965	12	2.30	1988	.00	1980	5.4	3.8	.3	.0	.17	.31	.48	.61	.75	.89	1.04	1.22	1.46	1.84	2.19
Jul	1.78	1.72	1.30	1981	1	4.15	1999	.10	1994	9.2	6.0	.7	.1	.33	.49	.75	.99	1.24	1.50	1.81	2.17	2.66	3.44	4.19
Aug	1.70	1.65	1.25+	1992	24	3.55	1984	.55+	1996	9.7	7.1	.6	@	.56	.72	.96	1.16	1.35	1.55	1.77	2.03	2.35	2.86	3.33
Sep	1.42	1.30	1.15	1970	13	2.95	1982	.15	1979	7.5	5.4	.4	.0	.34	.48	.68	.87	1.05	1.25	1.46	1.72	2.06	2.60	3.10
Oct	1.27	1.18	1.25	1969	3	2.95	1984	.10	1973	6.7	4.7	.5	@	.28	.40	.58	.75	.92	1.09	1.30	1.54	1.85	2.36	2.83
Nov	1.39	1.35	.95+	1986	2	3.30	1983	.20	1976	8.7	5.8	.2	.0	.36	.49	.69	.87	1.04	1.23	1.43	1.68	1.99	2.49	2.96
Dec	1.31	1.00	2.60	1966	6	3.20+	1996	.05	1976	8.0	5.6	.3	.0	.17	.27	.46	.64	.84	1.05	1.29	1.60	2.01	2.68	3.34
Ann	16.96	16.33	2.60	Dec 1966	6	4.25	Apr 1999	.00	Jun 1980	96.6	67.3	5.6	.2	12.25	13.17	14.34	15.23	16.02	16.78	17.56	18.42	19.47	20.99	22.30

+ 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

Complete documentation available from:

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

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**Station: TAYLOR PARK, CO**

**COOP ID: 058184**

**Climate Division: CO 2**

**NWS Call Sign:**

**Elevation: 9,206 Feet**

**Lat: 38° 49N**

**Lon: 106° 37W**

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	15.6	13.5	16	19	13.0	1974	21	30.0	1974	36	1974	23	32	1974	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	18.5	11.0	17	19	7.0	1976	9	39.0	1976	40	1975	21	31	1975	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	14.7	17.0	13	15	7.0	1972	3	20.0	1973	40	1975	11	33	1976	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	8.4	9.0	5	0	8.0	1974	2	15.0	1974	27	1976	1	21	1975	-9.9	-9.9	-9.9	-9.9	-9.9	8.3	7.8	7.6	6.5
May	1.5	.0	1	0	3.0	1971	8	8.0	1973	18	1975	1	18	1975	.8	.7	.3	.0	.0	.2	.2	.2	.0
Jun	.2	.0	0	0	1.0	1973	5	2.0	1973	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.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	8.0	1971	17	8.5	1971	6	1971	17	#	1971	.2	.1	.1	.1	.0	.1	.1	@	.0
Oct	2.7	#	#	0	8.0	1972	30	10.0	1972	8	1972	30	1	1972	.9	.9	.3	.1	.0	.5	.2	.1	.0
Nov	18.4	14.5	2	0	6.0	1972	27	27.0	1975	17	1972	28	8	1972	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	7.0	-99.9	6	2	12.0	1971	13	35.0	1973	30	1973	30	20	1972	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	87.8	-9.9	N/A	N/A	13.0	Jan 1974	21	39.0	Feb 1976	40+	Mar 1975	11	33	Mar 1976	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9

+ 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

Complete documentation available from:

[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

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**Climate Division: CO 2**

**NWS Call Sign:**

**Elevation: 9,206 Feet**

**Lat: 38° 49N**

**Lon: 106° 37W**

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	8/06	8/01	7/28	7/24	7/21	7/18	7/14	7/10	7/04
32	7/15	7/09	7/05	7/02	6/29	6/26	6/22	6/18	6/13
28	7/05	6/28	6/23	6/19	6/14	6/10	6/06	6/01	5/25
24	6/21	6/13	6/08	6/03	5/30	5/25	5/20	5/15	5/07
20	6/13	6/05	5/29	5/24	5/19	5/14	5/09	5/02	4/24
16	5/23	5/17	5/13	5/10	5/06	5/03	4/29	4/25	4/19
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	7/28	7/31	8/03	8/05	8/08	8/10	8/13	8/16	8/20
32	8/08	8/15	8/19	8/23	8/27	8/31	9/04	9/09	9/15
28	8/23	8/29	9/03	9/07	9/10	9/14	9/18	9/23	9/29
24	8/29	9/05	9/10	9/15	9/19	9/23	9/27	10/02	10/09
20	9/12	9/19	9/24	9/28	10/02	10/05	10/09	10/14	10/21
16	9/22	9/29	10/05	10/09	10/13	10/18	10/22	10/28	11/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	42	34	27	22	17	12	7	1	0
32	86	77	70	64	59	53	47	41	31
28	122	110	101	94	87	80	73	65	53
24	150	137	127	119	111	104	95	86	73
20	175	161	151	143	135	127	119	109	95
16	192	181	173	166	160	153	146	138	127

\* 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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**Station: TAYLOR PARK, CO**

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**NWS Call Sign:**

**Elevation: 9,206 Feet    Lat: 38°49N**

**Lon: 106°37W**

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	1777	1493	1408	1082	761	433	295	331	515	843	1241	1685	11864
60	1622	1353	1253	932	606	285	149	178	365	688	1091	1530	10052
57	1529	1269	1160	842	513	202	82	98	278	595	1001	1437	9006
55	1467	1213	1098	782	452	153	49	58	222	533	941	1375	8343
50	1312	1073	943	635	309	61	7	8	106	380	791	1220	6845
32	754	569	393	192	26	0	0	0	0	32	287	662	2915

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	8	100	289	557	728	692	475	212	36	0	3097
55	0	0	0	0	1	20	64	37	7	0	0	0	129
57	0	0	0	0	0	9	35	15	2	0	0	0	61
60	0	0	0	0	0	2	10	2	0	0	0	0	14
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 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	0	4	88	317	484	442	235	46	0	0	0	0	0	4	92	409	893	1335	1570	1616	1616	1616
45	0	0	0	0	23	178	330	287	109	5	0	0	0	0	0	0	23	201	531	818	927	932	932	932
50	0	0	0	0	0	68	177	138	29	0	0	0	0	0	0	0	0	68	245	383	412	412	412	412
55	0	0	0	0	0	9	51	32	2	0	0	0	0	0	0	0	0	9	60	92	94	94	94	94
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	0	23	114	269	336	304	207	85	9	0	0	0	0	23	137	406	742	1046	1253	1338	1347	1347

(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](http://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](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)