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: MONTE VISTA 2 W, CO **COOP ID: 055706**

Climate Division: CO 5 **NWS Call Sign:** **Elevation: 7,650 Feet** **Lat: 37˚35N** **Lon: 106˚11W**

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	32.7	.2	16.5	60	2000	20	27.0	1999	-38	1963	13	3.5	1992	1505	0	.0	.0	1.5	14.4	31.0	15.6
Feb	39.3	7.0	23.2	65	1986	26	34.8	1995	-31	1951	1	12.7	1984	1171	0	.0	.0	5.1	7.0	28.2	7.9
Mar	48.9	18.9	33.9	71	1998	25	39.1	1974	-16	1965	5	28.0	1977	965	0	.0	.0	15.7	.9	30.6	.9
Apr	57.9	27.1	42.5	78	1992	30	48.9	1981	-1+	1985	1	37.7	1983	676	0	.0	.0	25.0	.1	26.8	.1
May	66.8	36.3	51.6	85+	2000	24	57.5	1996	12+	1984	7	47.2	1978	418	1	.0	.0	30.1	.0	13.2	.0
Jun	76.4	43.6	60.0	91+	1994	27	64.1	1981	23	1954	7	56.2	1983	168	17	.0	.2	30.0	.0	1.5	.0
Jul	79.6	48.9	64.3	93	1973	6	67.2	1976	31	1955	8	61.2	1995	63	39	.0	.5	31.0	.0	.0	.0
Aug	77.4	47.2	62.3	89	1969	8	64.7	1971	27	1964	28	60.1	1992	99	14	.0	.0	31.0	.0	.2	.0
Sep	72.0	38.3	55.2	86+	1948	5	57.6	1998	15	1978	21	52.1	1985	296	0	.0	.0	29.8	.0	5.9	.0
Oct	61.9	27.5	44.7	80+	1989	2	48.1	1974	1	1997	26	40.7	1984	630	0	.0	.0	28.0	.1	26.1	.0
Nov	45.8	13.9	29.9	69	1980	12	35.6	1999	-22	1957	22	20.5	1972	1055	0	.0	.0	12.4	3.6	29.6	2.6
Dec	35.2	3.3	19.3	61+	1958	9	29.0	1980	-29	1964	7	6.3	1991	1419	0	.0	.0	1.9	11.6	31.0	12.4
Ann	57.8	26.0	42.0	93	Jul 1973	6	67.2	Jul 1976	-38	Jan 1963	13	3.5	Jan 1992	8465	71	.0	.7	241.5	37.7	224.1	39.5

\+ 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: 1948-2001

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

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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	.23	.21	.54	1987	16	.89	1987	.00+	1991
Feb	.27	.23	.43+	1991	25	1.02	1997	.00+	2000
Mar	.59	.51	1.16	1958	23	2.04	2000	.00	1978
Apr	.43	.37	1.23	1955	6	1.37	1995	.00+	1992
May	.71	.67	.90+	2001	3	1.93	1993	.00+	1998
Jun	.55	.40	1.12	1978	30	2.01	1983	.00	1980
Jul	1.27	1.31	1.10	1996	17	2.48	1998	.10	1987
Aug	1.49	1.25	1.16	1968	10	4.17	1993	.08	1978
Sep	.93	.82	1.26	1990	28	1.99	1975	.12	1987
Oct	.59	.45	1.04	1959	1	1.92	1998	.01	1995
Nov	.57	.54	1.15	1991	16	2.05	1991	.00+	1989
Dec	.29	.19	.69	1951	30	.84	1983	.00+	1996
Ann	7.92	8.04	1.26	Sep 1990	28	4.17	Aug 1993	.00+	Feb 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.7	.8	@	.0
Feb	2.6	1.0	.0	.0
Mar	3.6	1.7	.3	.0
Apr	3.6	1.6	.1	.0
May	5.9	2.3	.2	.0
Jun	5.0	1.7	.1	@
Jul	9.3	4.1	.4	@
Aug	10.7	4.4	.5	.1
Sep	7.3	3.2	.3	@
Oct	4.2	2.0	.2	.0
Nov	3.4	1.8	.3	@
Dec	2.6	1.0	.1	.0
Ann	60.9	25.6	2.5	.1

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	.00	.01	.04	.08	.11	.16	.21	.28	.38	.54	.70
Feb	.00	.02	.07	.11	.16	.21	.27	.34	.44	.60	.77
Mar	.02	.07	.15	.24	.33	.44	.57	.72	.94	1.31	1.67
Apr	.00	.04	.11	.18	.25	.33	.42	.54	.70	.96	1.22
May	.00	.00	.18	.30	.43	.56	.71	.90	1.14	1.55	1.94
Jun	.01	.05	.12	.19	.28	.38	.51	.66	.89	1.26	1.64
Jul	.35	.47	.66	.82	.97	1.14	1.32	1.53	1.81	2.25	2.65
Aug	.32	.46	.68	.88	1.07	1.29	1.52	1.81	2.18	2.78	3.35
Sep	.24	.33	.46	.58	.70	.82	.96	1.12	1.34	1.68	1.99
Oct	.04	.07	.14	.22	.31	.42	.55	.71	.94	1.33	1.71
Nov	.00	.03	.12	.20	.30	.41	.54	.70	.92	1.30	1.67
Dec	.00	.00	.04	.08	.13	.19	.26	.35	.49	.71	.94
Ann	5.30	5.80	6.44	6.93	7.37	7.79	8.23	8.73	9.33	10.20	10.96

\+ 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

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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	3.2	1.4	2	2	8.0	1987	16	15.5	1987	14	1987	20	7	1993	2.6	.9	.3	.1	.0	13.7	9.5	6.6	.3
Feb	3.8	3.0	2	1	6.0	1975	24	12.3	1997	9	1993	1	6	1993	2.3	1.2	.5	.1	.0	9.1	6.8	4.6	.0
Mar	5.1	4.2	1	#	11.0	1985	30	16.0	1992	11	1985	30	2	1997	2.9	1.6	.6	.3	.1	3.6	1.6	.7	.2
Apr	3.0	2.1	#	#	5.5	1995	10	11.9	1995	11	2000	1	1+	2000	1.8	.9	.2	.1	.0	1.3	.3	.1	@
May	.5	.0	#	0	3.3	1999	2	4.1	1999	3+	1999	2	#+	1999	.3	.2	.1	.0	.0	.2	.1	.0	.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	0	1.0	1971	17	1.0	1971	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	1.4	.0	#	0	8.3	1972	31	13.0	1991	6	1996	28	1	1996	.6	.3	.2	.1	.0	.6	.2	.1	.0
Nov	4.3	3.0	1	#	12.0	1991	16	12.6	1972	9	1993	14	3	1993	2.1	1.4	.5	.2	@	4.6	2.4	.9	.0
Dec	3.7	1.8	2	1	8.0	1983	28	11.8	1983	9	1985	13	5	1975	2.5	1.4	.4	.2	.0	12.2	6.6	2.7	.0
Ann	25.0	15.5	N/A	N/A	12.0	Nov 1991	16	16.0	Mar 1992	14	Jan 1987	20	7	Jan 1993	15.1	7.9	2.8	1.1	.1	45.3	27.5	15.7	.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	7/05	6/30	6/26	6/22	6/19	6/16	6/12	6/08	6/03
32	6/21	6/15	6/11	6/07	6/04	6/01	5/28	5/24	5/18
28	6/07	6/01	5/28	5/24	5/21	5/17	5/14	5/09	5/03
24	5/23	5/18	5/14	5/10	5/07	5/04	5/01	4/27	4/21
20	5/07	5/02	4/28	4/25	4/22	4/19	4/16	4/12	4/07
16	4/26	4/21	4/18	4/15	4/12	4/09	4/06	4/03	3/29

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	8/21	8/27	8/30	9/03	9/06	9/09	9/12	9/16	9/21
32	8/30	9/05	9/08	9/12	9/15	9/18	9/21	9/25	9/30
28	9/16	9/20	9/23	9/26	9/28	10/01	10/03	10/06	10/10
24	9/21	9/25	9/29	10/01	10/04	10/06	10/09	10/12	10/17
20	9/29	10/03	10/07	10/10	10/12	10/15	10/18	10/21	10/26
16	10/09	10/14	10/18	10/21	10/24	10/27	10/30	11/03	11/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	102	94	88	83	78	73	68	62	54
32	126	118	112	107	102	97	92	86	78
28	150	143	138	134	130	126	122	116	109
24	171	164	158	153	149	145	140	134	127
20	195	187	182	177	173	168	164	158	151
16	217	209	203	199	194	190	185	179	172

***** 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	1505	1171	965	676	418	168	63	99	296	630	1055	1419	8465
60	1350	1031	810	526	270	71	8	18	153	475	905	1264	6881
57	1257	947	717	436	192	35	1	3	84	383	815	1171	6041
55	1195	891	655	377	146	19	0	1	51	322	755	1109	5521
50	1040	751	500	239	61	3	0	0	8	187	606	954	4349
32	525	304	84	5	0	0	0	0	0	4	159	426	1507

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	43	56	143	319	606	839	999	939	695	397	93	31	5160
55	0	0	0	2	40	169	286	226	55	2	0	0	780
57	0	0	0	0	23	124	225	167	29	1	0	0	569
60	0	0	0	0	8	70	139	89	7	0	0	0	313
65	0	0	0	0	1	17	39	14	0	0	0	0	71
70	0	0	0	0	0	2	3	0	0	0	0	0	5

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	25	125	332	571	724	671	442	177	10	0	0	1	26	151	483	1054	1778	2449	2891	3068	3078	3078
45	0	0	2	45	195	421	569	516	293	76	0	0	0	0	2	47	242	663	1232	1748	2041	2117	2117	2117
50	0	0	0	9	86	275	414	361	155	18	0	0	0	0	0	9	95	370	784	1145	1300	1318	1318	1318
55	0	0	0	0	20	139	259	207	51	0	0	0	0	0	0	0	20	159	418	625	676	676	676	676
60	0	0	0	0	0	45	115	74	8	0	0	0	0	0	0	0	0	45	160	234	242	242	242	242
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	14	62	154	277	407	473	445	333	207	45	0	0	14	76	230	507	914	1387	1832	2165	2372	2417	2417

(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