

Climatography of the United States

No. 20

1971-2000

Station: MAYBELL, CO

COOP ID: 055446

Climate Division: CO 2

NWS Call Sign:

Elevation: 5,908 Feet Lat: 40°31N

Lon: 108°06W

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	31.0	2.3	16.7	56	1971	31	27.0	1998	-60	1979	1	1.2	1984	1499	0	.0	.0	1.2	13.0	30.9	13.4
Feb	36.4	6.3	21.4	66	1986	26	32.2	1995	-61	1985	1	9.4	1989	1223	0	.0	.0	2.7	6.8	28.1	8.3
Mar	46.7	18.5	32.6	75	1986	30	38.4	1986	-21+	1966	5	26.1	1984	1005	0	.0	.0	14.4	1.3	30.2	.8
Apr	56.4	25.7	41.1	82	1989	21	46.3	1992	0	1970	1	35.3	1975	719	0	.0	.0	24.8	.2	25.0	@
May	66.5	34.0	50.3	90	2000	31	55.0	1992	13	1972	1	45.7	1983	457	0	.0	@	30.1	.0	14.2	.0
Jun	78.1	41.0	59.6	96+	1994	27	65.1	1988	22	1973	18	54.8	1998	188	24	.0	2.3	30.0	.0	2.2	.0
Jul	84.8	47.4	66.1	102	1960	21	68.4	1988	26	1968	1	61.6	1993	41	75	@	9.5	31.0	.0	.1	.0
Aug	83.3	45.7	64.5	98	2001	13	68.4	1983	28+	1992	27	61.0	1974	76	61	.0	5.5	31.0	.0	.4	.0
Sep	73.2	35.7	54.5	94+	1995	5	60.8	1998	8	1985	30	48.2	1971	325	8	.0	.6	29.6	.0	10.6	.0
Oct	60.7	25.5	43.1	87	1993	5	47.5	1988	-10	1991	31	38.0	1984	678	0	.0	.0	27.6	.2	25.9	.1
Nov	43.0	15.2	29.1	70+	1999	18	35.7	1995	-24	1977	21	17.4	2000	1076	0	.0	.0	9.8	3.6	29.4	2.8
Dec	32.7	3.7	18.2	61+	1995	2	27.8	1995	-50	1978	8	7.2	1978	1451	0	.0	.0	1.2	12.9	30.9	11.4
Ann	57.7	25.1	41.4	102	Jul 1960	21	68.4+	Jul 1988	-61	Feb 1985	1	1.2	Jan 1984	8738	168	@	17.9	233.4	38.0	227.9	36.8

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1958-2001

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

070-A

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: MAYBELL, CO

COOP ID: 055446

Climate Division: CO 2

NWS Call Sign:

Elevation: 5,908 Feet Lat: 40°31N

Lon: 108°06W

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	.86	.73	.93	1997	4	2.21	1997	.19	1972	6.7	3.4	.4	.0	.14	.21	.33	.45	.58	.71	.87	1.06	1.31	1.72	2.11
Feb	.81	.68	.90	1995	15	2.12	1990	.14	1973	6.9	3.0	.3	.0	.17	.24	.36	.47	.58	.70	.83	.98	1.19	1.53	1.84
Mar	1.16	1.03	.75	1986	10	4.11	1979	.29	1983	8.7	4.0	.4	.0	.28	.39	.56	.71	.86	1.01	1.19	1.40	1.67	2.11	2.52
Apr	1.41	1.10	2.00	1999	1	5.17	1999	.14	1989	7.7	4.0	.5	.2	.23	.35	.56	.75	.95	1.17	1.42	1.72	2.13	2.79	3.42
May	1.39	1.29	.85+	1988	18	5.15	1995	.03+	1989	8.8	4.4	.4	.0	.11	.20	.38	.57	.78	1.03	1.32	1.68	2.19	3.05	3.89
Jun	.82	.63	1.29	1974	8	3.22	1998	.04	1971	4.9	2.8	.3	.1	.06	.11	.22	.33	.45	.60	.78	1.00	1.31	1.83	2.35
Jul	1.02	.89	1.00+	1985	20	2.92	1985	.00	1994	6.1	2.6	.2	.1	.14	.27	.44	.59	.73	.88	1.06	1.26	1.53	1.95	2.35
Aug	.84	.80	.90	1963	31	2.73	1997	.05	1985	5.5	3.2	.4	.1	.12	.18	.30	.42	.54	.68	.83	1.03	1.28	1.71	2.11
Sep	1.05	.79	1.35	1997	19	4.02	1997	.10+	1987	7.2	3.5	.4	.1	.16	.25	.40	.55	.70	.86	1.05	1.28	1.59	2.09	2.57
Oct	1.44	1.36	1.40	1979	21	3.23	1981	.00	1988	6.8	4.0	.7	.1	.24	.43	.68	.87	1.07	1.27	1.50	1.76	2.11	2.66	3.17
Nov	1.14	.96	2.30	1977	19	2.81	1978	.22	1976	6.7	3.2	.4	.1	.25	.35	.52	.67	.82	.98	1.16	1.38	1.67	2.13	2.56
Dec	.79	.60	.85	1966	6	3.25	1983	.08	1976	7.2	3.1	.2	.0	.14	.22	.33	.44	.55	.67	.80	.97	1.18	1.53	1.86
Ann	12.73	12.16	2.30	Nov 1977	19	5.17	Apr 1999	.00+	Jul 1994	83.2	41.2	4.6	.8	7.48	8.42	9.67	10.64	11.52	12.39	13.30	14.33	15.59	17.46	19.10

+ 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: 1958-2001

(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: MAYBELL, CO

COOP ID: 055446

Climate Division: CO 2

NWS Call Sign:

Elevation: 5,908 Feet

Lat: 40°31N

Lon: 108°06W

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	11.5	7.0	6	5	12.0	1996	25	28.5	1996	27	1984	2	16	1984	5.6	4.1	1.7	.7	.1	23.8	16.2	13.4	5.8
Feb	11.7	8.0	6	5	10.5	1989	3	33.1	1990	22	1989	10	17	1989	4.0	3.3	1.5	.4	@	-9.9	-9.9	-9.9	-9.9
Mar	8.4	5.3	2	1	8.0	1980	6	42.0	1980	12	1974	4	8	1974	3.6	2.8	1.1	.4	.0	6.9	2.9	1.5	.5
Apr	3.9	2.5	#	#	8.0	1984	25	15.8	1984	9	1974	13	1+	1999	2.0	1.5	.4	.2	.0	1.2	.5	.2	.0
May	.9	.0	#	0	4.0	1978	5	12.0	1979	2	1997	2	#+	2000	.4	.3	.2	.0	.0	.1	.0	.0	.0
Jun	.2	.0	0	0	4.0	1974	8	4.0	1974	0	0	0	0	0	.1	.1	.1	.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	.2	.0	#	0	3.0	1984	25	3.0	1984	3	1984	25	#+	2000	.1	.1	@	.0	.0	.1	.1	.0	.0
Oct	2.2	.0	#	0	7.0	1985	9	9.0	1985	10	1971	29	1+	1997	.8	.6	.4	.1	.0	1.2	.9	.3	.0
Nov	13.0	11.8	2	1	14.0	1977	19	44.1	1978	11	1983	23	4	2000	3.9	3.2	1.4	.7	.1	10.2	6.5	3.5	.1
Dec	13.5	9.0	4	3	12.0	1987	23	38.0	1978	29	1983	26	10	1983	5.2	4.1	1.8	.9	.1	19.9	13.0	7.5	1.4
Ann	65.5	43.6	N/A	N/A	14.0	Nov 1977	19	44.1	Nov 1978	29	Dec 1983	26	17	Feb 1989	25.7	20.1	8.6	3.4	.3	-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:

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Climate Division: CO 2

NWS Call Sign:

Elevation: 5,908 Feet

Lat: 40° 31N

Lon: 108° 06W

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	7/14	7/08	7/03	6/29	6/26	6/22	6/18	6/14	6/07
32	6/28	6/21	6/17	6/12	6/08	6/05	5/31	5/27	5/20
28	6/12	6/04	5/30	5/26	5/22	5/17	5/13	5/08	5/01
24	5/24	5/19	5/15	5/12	5/09	5/06	5/02	4/28	4/23
20	5/14	5/08	5/03	4/29	4/26	4/22	4/18	4/14	4/07
16	4/28	4/22	4/17	4/13	4/10	4/06	4/02	3/28	3/22
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	8/13	8/19	8/22	8/26	8/29	9/01	9/04	9/08	9/13
32	8/20	8/26	8/30	9/03	9/06	9/10	9/14	9/18	9/24
28	9/08	9/12	9/15	9/17	9/20	9/22	9/24	9/27	10/01
24	9/12	9/16	9/20	9/23	9/26	9/29	10/02	10/05	10/10
20	9/17	9/23	9/27	9/30	10/04	10/07	10/11	10/15	10/21
16	9/27	10/04	10/09	10/14	10/18	10/22	10/26	11/01	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	89	80	74	68	63	58	53	46	38
32	114	106	100	94	89	84	79	73	64
28	146	137	131	125	120	115	110	103	94
24	162	154	148	144	139	135	130	125	117
20	188	179	172	166	160	155	149	142	132
16	221	211	203	197	190	184	178	170	160

* 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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NWS Call Sign:

Elevation: 5,908 Feet Lat: 40°31N Lon: 108°06W

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	1499	1223	1005	719	457	188	41	76	325	678	1076	1451	8738
60	1344	1083	850	569	305	91	6	22	199	523	926	1296	7214
57	1251	999	757	479	218	50	1	8	136	430	836	1203	6368
55	1189	943	695	421	167	31	0	4	101	369	776	1141	5837
50	1034	803	540	283	68	7	0	0	39	223	626	986	4609
32	522	363	109	16	0	0	0	0	0	5	186	450	1651

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	46	64	127	287	566	826	1057	1008	673	350	100	22	5126
55	0	0	0	3	20	167	344	299	84	1	0	0	918
57	0	0	0	0	9	126	283	241	59	0	0	0	718
60	0	0	0	0	2	76	195	162	32	0	0	0	467
65	0	0	0	0	0	24	75	61	8	0	0	0	168
70	0	0	0	0	0	5	13	11	1	0	0	0	30

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	28	135	362	613	833	791	462	177	8	0	0	1	29	164	526	1139	1972	2763	3225	3402	3410	3410
45	0	0	4	58	220	463	678	636	322	77	0	0	0	0	4	62	282	745	1423	2059	2381	2458	2458	2458
50	0	0	0	17	107	317	523	481	190	18	0	0	0	0	0	17	124	441	964	1445	1635	1653	1653	1653
55	0	0	0	0	33	183	368	326	87	0	0	0	0	0	0	0	33	216	584	910	997	997	997	997
60	0	0	0	0	3	74	215	182	27	0	0	0	0	0	0	0	3	77	292	474	501	501	501	501
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	5	59	159	307	450	547	538	382	215	31	2	0	5	64	223	530	980	1527	2065	2447	2662	2693	2695

(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/normal/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
- 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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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