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: MCCAMMON, ID **COOP ID: 105716**

Climate Division: ID10 **NWS Call Sign:** **Elevation: 4,774 Feet** **Lat: 42˚39N** **Lon: 112˚12W**

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	30.5	15.6	23.1	52	1990	10	31.0	1994	-28	1962	22	11.3	1979	1300	0	.0	.0	.1	14.8	29.7	5.1
Feb	36.6	18.4	27.5	63	1995	25	37.2	1995	-26	1960	29	17.3	1985	1050	0	.0	.0	2.3	7.1	26.6	2.5
Mar	47.6	25.9	36.8	74	1956	24	43.3	1986	-8	1960	1	27.7	1985	876	0	.0	.0	13.9	.5	26.9	.1
Apr	58.3	32.0	45.2	82	1994	21	51.1	1992	13	1959	10	37.8	1975	597	0	.0	.0	24.8	.0	15.9	.0
May	67.1	38.5	52.8	93	1954	20	58.9	1992	21+	1999	11	47.3	1975	381	2	.0	.0	30.0	.0	3.4	.0
Jun	77.3	44.9	61.1	98	1954	22	67.1	1988	28+	2001	5	57.0	1998	159	43	.0	1.3	30.0	.0	.2	.0
Jul	85.5	50.3	67.9	103	1956	10	72.1	1989	34	1959	8	59.5	1993	45	135	.1	9.8	31.0	.0	.0	.0
Aug	84.2	49.4	66.8	101	2000	1	71.2	2000	30	1992	26	62.1	1976	56	112	.1	4.6	31.0	.0	.1	.0
Sep	74.7	40.9	57.8	103	1950	3	64.6	1990	22+	1999	29	53.0	1971	234	19	.0	.4	29.8	@	3.8	.0
Oct	61.8	32.0	46.9	87	1963	2	54.4	1988	11	1958	31	42.1	1984	562	0	.0	.0	28.5	.1	15.7	.0
Nov	43.4	24.0	33.7	69	1999	6	40.5	1995	-17	1955	16	27.2	2000	939	0	.0	.0	9.2	2.2	24.9	.7
Dec	32.5	16.1	24.3	61	1995	1	31.0	1995	-31	1990	23	13.9	1990	1262	0	.0	.0	.8	13.2	29.5	2.9
Ann	58.3	32.3	45.3	103+	Jul 1956	10	72.1	Jul 1989	-31	Dec 1990	23	11.3	Jan 1979	7461	311	.2	16.1	231.4	37.9	176.7	11.3

\+ 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: 1949-2001

(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	1.81	1.73	.89	1958	29	5.01	1998	.21	1992
Feb	1.32	1.23	1.41	1963	1	3.78	1986	.21	1995
Mar	1.78	1.65	1.27	1989	2	4.01	1989	.18	1994
Apr	1.27	1.18	1.07	1954	28	2.90	1990	.22	1977
May	2.15	1.84	1.39	1953	24	4.67	1996	.68	1972
Jun	.95	.79	1.20	1954	27	3.45	1993	.05	2000
Jul	.98	.83	1.21+	1962	13	2.25	1993	.19	2000
Aug	1.46	1.39	1.34	1997	13	3.54	1983	.00	1996
Sep	1.02	1.04	1.04	1960	17	3.10	1982	.00	1987
Oct	1.05	1.08	1.00	2001	31	2.17	1981	.00	1988
Nov	1.41	1.30	1.02	1949	10	3.94	1988	.04	1976
Dec	1.75	1.46	1.42	1955	22	8.41	1996	.10	1989
Ann	16.95	16.55	1.42	Dec 1955	22	8.41	Dec 1996	.00+	Aug 1996

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	4.0	.4	.0
Feb	11.0	4.7	.3	.0
Mar	10.5	4.5	.5	.1
Apr	10.6	4.4	.3	.0
May	7.3	4.1	.6	.1
Jun	8.4	3.6	.3	.0
Jul	7.8	2.7	.5	.0
Aug	7.8	3.4	.5	.1
Sep	3.7	2.0	.3	.0
Oct	7.6	3.4	.3	.0
Nov	10.9	4.8	.3	.0
Dec	11.0	5.3	.7	.1
Ann	105.6	46.9	5.0	.4

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	.48	.65	.91	1.14	1.37	1.60	1.87	2.18	2.58	3.22	3.82
Feb	.26	.38	.57	.75	.93	1.12	1.34	1.61	1.96	2.52	3.06
Mar	.51	.68	.93	1.16	1.37	1.60	1.84	2.14	2.52	3.11	3.67
Apr	.35	.47	.66	.82	.97	1.14	1.32	1.53	1.81	2.24	2.65
May	.62	.82	1.13	1.40	1.66	1.93	2.23	2.59	3.05	3.78	4.45
Jun	.17	.25	.39	.52	.65	.79	.96	1.15	1.42	1.84	2.24
Jul	.22	.31	.45	.58	.71	.85	1.00	1.19	1.43	1.82	2.19
Aug	.29	.50	.74	.94	1.13	1.33	1.54	1.79	2.11	2.62	3.09
Sep	.03	.10	.24	.39	.55	.74	.96	1.25	1.64	2.29	2.94
Oct	.09	.21	.38	.53	.69	.87	1.06	1.30	1.62	2.14	2.63
Nov	.29	.42	.63	.82	1.01	1.21	1.44	1.72	2.09	2.68	3.23
Dec	.18	.31	.55	.80	1.06	1.36	1.70	2.14	2.73	3.72	4.68
Ann	11.29	12.36	13.74	14.80	15.75	16.68	17.63	18.70	20.00	21.90	23.56

+ 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: 1949-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	8.8	-99.9	9	12
Feb	6.6	6.5	5	#
Mar	3.6	3.8	1	0
Apr	.9	.0	0	0
May	.2	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	1.3	.0	#	0
Nov	3.2	1.5	#	0
Dec	9.1	5.5	4	1
Ann	33.7	-9.9	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	9.0	1997	25	35.0	1998	24	1993	23	19	1993
Feb	7.0	1993	24	17.0	1994	31	1993	25	23	1993
Mar	5.0	1995	21	10.0	1998	21	1993	10	4	1998
Apr	3.0	1996	18	5.5	1996	0	0	0	0	0
May	2.0	1991	3	2.0	1991	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	5.5	1989	28	6.5	1989	2	1991	31	#	1991
Nov	6.0	1992	22	8.3	1988	7+	1994	29	1	1994
Dec	13.0	1996	5	20.1	1990	20	1996	6	20	1996
Ann	13.0	Dec 1996	5	35.0	Jan 1998	31	Feb 1993	25	23	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.2	6.2	2.6	1.3	.0
Feb	3.3	2.8	.7	.2	.0
Mar	1.2	1.0	.6	.2	.0
Apr	.3	.3	.1	.0	.0
May	.2	.1	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.3	.3	.2	.2	.0
Nov	3.0	2.1	.9	.3	.0
Dec	5.6	4.8	1.8	.7	.2
Ann	21.1	17.6	6.9	2.9	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-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

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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	7/02	6/23	6/16	6/11	6/06	5/31	5/26	5/19	5/11
32	6/10	6/02	5/28	5/23	5/18	5/14	5/09	5/04	4/26
28	5/17	5/12	5/09	5/06	5/03	4/30	4/27	4/24	4/19
24	5/05	4/29	4/25	4/21	4/18	4/14	4/11	4/07	4/01
20	4/23	4/15	4/09	4/04	3/30	3/26	3/20	3/15	3/06
16	4/03	3/25	3/18	3/13	3/08	3/02	2/25	2/18	2/09

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	8/25	8/30	9/03	9/06	9/09	9/12	9/15	9/19	9/24
32	9/05	9/09	9/12	9/15	9/18	9/20	9/23	9/26	10/01
28	9/12	9/17	9/21	9/24	9/27	10/01	10/04	10/08	10/13
24	9/24	9/30	10/04	10/08	10/11	10/15	10/19	10/23	10/29
20	10/05	10/11	10/16	10/19	10/23	10/26	10/30	11/03	11/09
16	10/22	10/28	11/01	11/05	11/08	11/11	11/15	11/19	11/25

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	126	115	107	101	95	89	82	74	64
32	148	139	132	127	122	116	111	104	95
28	165	159	154	150	147	143	139	135	128
24	200	192	186	181	176	171	166	160	152
20	237	226	219	212	206	200	193	185	175
16	279	267	259	251	245	238	231	222	211

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1300	1050	876	597	381	159	45	56	234	562	939	1262	7461
60	1145	910	721	449	239	74	11	15	126	409	789	1107	5995
57	1052	826	628	365	166	40	3	5	78	320	699	1014	5196
55	990	770	567	310	125	24	1	2	53	264	639	952	4697
50	835	631	422	191	51	5	0	0	15	145	491	797	3583
32	335	215	66	6	0	0	0	0	0	2	93	283	1000

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	58	90	213	400	644	874	1114	1079	774	463	144	44	5897
55	0	0	1	14	57	208	402	368	137	12	0	0	1199
57	0	0	0	8	36	164	342	308	102	6	0	0	966
60	0	0	0	2	16	108	257	225	60	2	0	0	670
65	0	0	0	0	2	43	135	112	19	0	0	0	311
70	0	0	0	0	0	11	55	40	4	0	0	0	110

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	6	43	192	428	648	894	861	568	251	22	1	0	6	49	241	669	1317	2211	3072	3640	3891	3913	3914
45	0	0	8	96	278	498	739	706	420	126	2	0	0	0	8	104	382	880	1619	2325	2745	2871	2873	2873
50	0	0	0	36	150	350	584	551	277	46	0	0	0	0	0	36	186	536	1120	1671	1948	1994	1994	1994
55	0	0	0	9	63	209	429	396	149	12	0	0	0	0	0	9	72	281	710	1106	1255	1267	1267	1267
60	0	0	0	0	15	92	279	244	56	0	0	0	0	0	0	0	15	107	386	630	686	686	686	686
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	6	43	154	290	428	574	563	408	206	16	0	0	6	49	203	493	921	1495	2058	2466	2672	2688	2688

(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