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: MCCALL, ID **COOP ID: 105708**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,025 Feet** **Lat: 44˚53N** **Lon: 116˚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	31.2	12.6	21.9	51	1939	4	27.3	1990	-35+	1943	19	10.8	1979	1337	0	.0	.0	.0	14.9	30.2	6.5
Feb	36.6	14.9	25.8	59	1995	25	32.9	1991	-33	1933	9	17.9	1985	1099	0	.0	.0	1.6	6.4	27.7	4.2
Mar	42.9	20.6	31.8	66+	1992	15	40.8	1992	-22	1955	5	24.3	1976	1032	0	.0	.0	7.3	1.4	29.7	.9
Apr	51.4	27.0	39.2	84	1987	28	45.8	1987	-17	1936	1	30.9	1975	774	0	.0	.0	17.0	@	24.7	.1
May	61.1	33.8	47.5	88	1986	31	53.9	1992	14+	1950	6	43.4	1975	544	0	.0	.0	27.2	@	13.4	.0
Jun	70.0	39.4	54.7	94+	1940	20	60.5	1977	22	1996	19	50.9	1975	314	4	.0	.2	29.7	.0	5.0	.0
Jul	79.7	42.9	61.3	99+	1988	31	66.2	1998	22	1986	17	52.8	1993	154	38	.0	2.5	31.0	.0	1.1	.0
Aug	80.1	41.0	60.6	98+	1983	8	64.8	1971	20	1992	25	55.9	1993	180	41	.0	3.0	31.0	.0	2.6	.0
Sep	70.0	33.2	51.6	94	1998	5	58.4	1998	15+	1999	29	45.1	1986	405	4	.0	.3	29.1	.0	13.8	.0
Oct	57.8	26.5	42.2	85+	1992	2	47.4	1988	4	1991	30	37.5	1984	709	0	.0	.0	24.2	.1	25.3	.0
Nov	39.7	21.9	30.8	68	1988	1	37.3	1999	-14+	1985	23	23.4	1985	1026	0	.0	.0	4.7	5.0	27.5	.8
Dec	31.2	14.1	22.7	58	1939	6	27.8	1989	-31	1983	23	13.7	1990	1314	0	.0	.0	.0	15.2	30.3	3.8
Ann	54.3	27.3	40.8	99+	Jul 1988	31	66.2	Jul 1998	-35+	Jan 1943	19	10.8	Jan 1979	8888	87	.0	6.0	202.8	43.0	231.3	16.3

\+ 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: 1930-2001

(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	3.28	3.46	1.90	1956	15	6.24	1974	.41	1985
Feb	2.92	2.85	1.50	1957	25	6.08	1999	.90+	1997
Mar	2.55	2.42	1.53	1951	6	5.07	1974	.53	1992
Apr	2.07	2.08	1.16	1948	10	4.77	1993	.28	1977
May	2.35	1.91	1.90	1948	22	7.25	1998	.76	1974
Jun	2.08	1.81	1.55	1970	14	4.73	1971	.59	1979
Jul	1.03	1.08	2.00	1984	28	2.43	1976	.06	1971
Aug	1.05	.66	1.38	1995	16	3.30	1975	.01	2000
Sep	1.45	1.26	1.77	1967	30	5.24	1985	.01	1987
Oct	1.78	1.67	1.83	1962	12	5.51	1975	.00	1987
Nov	3.20	2.65	1.83	1946	19	9.25	1973	.36	1976
Dec	3.45	2.81	1.62	1977	15	9.81	1996	.31	1989
Ann	27.21	26.68	2.00	Jul 1984	28	9.81	Dec 1996	.00	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.9	9.6	1.7	.2
Feb	12.0	8.4	1.6	.2
Mar	12.4	7.9	1.0	@
Apr	9.7	6.3	1.0	.0
May	11.4	6.9	1.2	@
Jun	9.6	5.9	1.1	.1
Jul	5.3	2.8	.5	.1
Aug	5.8	2.8	.7	.1
Sep	6.6	3.7	.9	.1
Oct	7.7	4.6	1.0	.1
Nov	12.9	9.4	1.7	.1
Dec	13.3	9.4	2.0	.3
Ann	120.6	77.7	14.4	1.3

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	1.03	1.34	1.80	2.20	2.58	2.98	3.42	3.93	4.59	5.62	6.57
Feb	.81	1.09	1.51	1.88	2.23	2.61	3.02	3.51	4.15	5.15	6.08
Mar	.93	1.17	1.52	1.81	2.08	2.36	2.67	3.02	3.48	4.18	4.82
Apr	.50	.70	1.00	1.27	1.53	1.82	2.13	2.51	3.00	3.77	4.50
May	.81	1.03	1.35	1.63	1.89	2.16	2.45	2.79	3.23	3.91	4.54
Jun	.62	.82	1.11	1.37	1.62	1.87	2.16	2.49	2.92	3.59	4.22
Jul	.07	.13	.26	.40	.56	.74	.96	1.25	1.64	2.31	2.98
Aug	.03	.07	.18	.31	.47	.66	.91	1.24	1.71	2.54	3.39
Sep	.03	.08	.20	.37	.59	.86	1.21	1.69	2.38	3.61	4.87
Oct	.12	.30	.58	.84	1.12	1.42	1.77	2.20	2.77	3.72	4.64
Nov	.76	1.06	1.53	1.94	2.36	2.80	3.29	3.88	4.65	5.87	7.02
Dec	.64	.94	1.45	1.92	2.40	2.91	3.50	4.21	5.15	6.66	8.10
Ann	18.75	20.37	22.45	24.04	25.46	26.83	28.25	29.83	31.75	34.54	36.96

\+ 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: 1930-2001
(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	32.5	33.0	26	27
Feb	25.3	20.0	31	31
Mar	17.1	14.5	25	25
Apr	5.4	5.0	6	9
May	.9	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.2	.0	0	0
Oct	1.9	.0	#	0
Nov	20.5	15.0	4	3
Dec	28.9	27.0	14	14
Ann	132.7	114.5	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	23.0	1971	15	74.5	1971	71	1971	15	48	1971
Feb	12.0	1976	16	70.0	1975	56	1999	21	48	1999
Mar	20.0	1975	22	49.0	1975	59	1975	22	49	1971
Apr	10.0	1972	12	12.0	1982	43+	1975	3	23	1975
May	3.0	1975	3	6.0	2000	3	1975	3	#	1994
Jun	.3	1998	16	.3	1998	0	0	0	#	1986
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	4.0	1971	29	4.0	1971	0	0	0	0	0
Oct	5.0	1975	27	11.0	1975	11	1975	27	1+	1996
Nov	13.0	1973	5	69.1	1973	27+	1994	29	12	1994
Dec	12.0	1974	20	62.0	1992	40	1992	31	29	1971
Ann	23.0	Jan 1971	15	74.5	Jan 1971	71	Jan 1971	15	49	Mar 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	11.2	10.9	5.3	1.8	.2
Feb	8.7	8.3	3.9	1.5	.2
Mar	6.8	6.6	2.3	.5	.1
Apr	2.4	2.1	.9	.1	@
May	.6	.5	.1	.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
Oct	.8	.8	.2	.1	.0
Nov	7.2	6.7	3.2	1.3	.1
Dec	10.6	9.8	4.4	2.0	.1
Ann	48.3	45.7	20.3	7.3	.7

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	30.7	30.7	30.7	28.6
Feb	28.0	28.0	28.0	27.2
Mar	29.6	29.3	28.9	27.0
Apr	11.9	10.8	9.7	7.2
May	.1	@	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	1.1	.5	.2	.1
Nov	14.6	11.6	8.9	3.6
Dec	30.0	28.8	26.7	20.7
Ann	146.0	139.7	133.1	114.4

+ 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	7/25	7/22	7/19	7/17	7/15	7/12	7/09	7/05
32	7/17	7/11	7/08	7/04	7/01	6/28	6/25	6/21	6/16
28	6/30	6/23	6/18	6/14	6/10	6/06	6/02	5/28	5/21
24	6/18	6/08	5/31	5/25	5/19	5/13	5/06	4/29	4/19
20	5/12	5/06	5/02	4/28	4/25	4/21	4/18	4/13	4/07
16	4/27	4/20	4/14	4/10	4/06	4/02	3/29	3/23	3/16

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	8/04	8/08	8/11	8/14	8/17	8/20	8/24	8/29
32	8/05	8/11	8/16	8/20	8/24	8/27	8/31	9/05	9/11
28	8/22	8/27	8/31	9/03	9/06	9/09	9/13	9/16	9/22
24	9/03	9/08	9/12	9/16	9/19	9/22	9/26	9/30	10/05
20	9/13	9/20	9/24	9/28	10/02	10/06	10/10	10/15	10/21
16	10/01	10/08	10/13	10/17	10/21	10/25	10/29	11/03	11/10

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	46	40	35	31	27	24	20	15	9
32	78	69	63	57	52	47	42	36	27
28	112	103	97	92	87	83	77	71	63
24	157	145	137	129	122	115	108	100	88
20	183	175	169	164	160	155	150	145	137
16	227	217	210	203	198	192	185	178	168

***** 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	1337	1099	1032	774	544	314	154	180	405	709	1026	1314	8888
60	1182	959	877	624	391	184	67	91	267	554	876	1159	7231
57	1089	875	784	534	305	121	33	52	195	461	786	1066	6301
55	1027	819	722	477	251	87	18	33	153	400	726	1004	5717
50	872	679	567	338	137	29	2	9	70	251	576	849	4379
32	333	211	119	32	1	0	0	0	0	4	132	317	1149

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	20	36	111	248	480	681	908	884	589	318	95	27	4397
55	0	0	0	3	16	78	213	204	52	1	0	0	567
57	0	0	0	0	9	52	165	161	34	0	0	0	421
60	0	0	0	0	2	24	107	107	16	0	0	0	256
65	0	0	0	0	0	4	38	41	4	0	0	0	87
70	0	0	0	0	0	0	9	11	0	0	0	0	20

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	12	86	269	459	677	655	374	135	11	0	0	0	12	98	367	826	1503	2158	2532	2667	2678	2678
45	0	0	0	31	150	312	522	500	240	55	0	0	0	0	0	31	181	493	1015	1515	1755	1810	1810	1810
50	0	0	0	9	70	187	370	349	128	15	0	0	0	0	0	9	79	266	636	985	1113	1128	1128	1128
55	0	0	0	0	27	90	226	206	55	1	0	0	0	0	0	0	27	117	343	549	604	605	605	605
60	0	0	0	0	2	29	108	96	13	0	0	0	0	0	0	0	2	31	139	235	248	248	248	248
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	20	85	201	318	471	473	319	160	14	0	0	1	21	106	307	625	1096	1569	1888	2048	2062	2062

(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