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: CANTON 4 N, MS **COOP ID: 221389**

Climate Division: MS 5 **NWS Call Sign:** **Elevation: 250 Feet** **Lat: 32˚40N** **Lon: 90˚02W**

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	55.4	34.8	45.1	82+	1952	1	52.6	1974	-7	1948	24	35.0	1977	623	0	.0	.0	22.4	1.1	15.7	.0
Feb	60.4	38.3	49.4	85	1962	14	56.1	1976	-2	1951	2	39.4	1978	439	1	.0	.0	22.1	.6	10.9	.0
Mar	68.6	45.6	57.1	89	1995	22	61.6	1974	15	1980	3	51.9	1996	263	18	.0	.0	29.0	@	4.1	.0
Apr	75.9	52.3	64.1	95	1987	22	70.9	1981	28+	1987	4	59.5	1983	100	71	.0	.2	30.0	.0	.6	.0
May	83.0	61.2	72.1	98+	1951	31	76.1	1996	39	1976	4	67.1	1976	13	233	.0	3.9	31.0	.0	.0	.0
Jun	89.8	68.2	79.0	103+	1963	16	82.2	1977	46	1984	1	75.7	1974	0	420	.2	17.7	30.0	.0	.0	.0
Jul	92.6	71.1	81.9	104+	1980	17	84.9	1980	51	1967	15	79.6	1994	0	522	1.0	25.6	31.0	.0	.0	.0
Aug	92.1	69.7	80.9	107	2000	31	84.0	2000	52	1956	23	77.2	1992	0	493	1.1	24.0	31.0	.0	.0	.0
Sep	87.0	63.8	75.4	107	2000	1	80.7	1998	34	1967	29	70.5	1974	8	320	.5	13.4	30.0	.0	.0	.0
Oct	77.4	51.2	64.3	100	1954	2	69.7	1971	20	1952	30	57.5	1976	112	91	.0	1.2	31.0	.0	.6	.0
Nov	66.7	43.2	55.0	89	1984	1	62.1	1985	15+	1950	25	45.9	1976	318	17	.0	.0	28.5	.0	6.4	.0
Dec	58.0	36.5	47.3	85	1951	7	57.2	1984	2	1989	24	38.3	1989	558	8	.0	.0	23.8	.5	14.2	.0
Ann	75.6	53.0	64.3	107+	Sep 2000	1	84.9	Jul 1980	-7	Jan 1948	24	35.0	Jan 1977	2434	2194	2.8	86.0	339.8	2.2	52.5	.0

\+ 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

Issue Date: February 2004

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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	6.12	5.86	5.50	1979	20	16.79	1974	.71	1981
Feb	4.86	4.51	4.65	1983	10	11.33	1983	1.64	1996
Mar	6.09	5.56	5.10	1964	15	16.41	1976	2.69	1978
Apr	5.84	4.71	5.67	1953	29	15.56	1979	1.22	1976
May	5.69	5.17	4.35	1986	12	14.52	1975	1.08	1977
Jun	3.33	2.74	4.18	1987	14	8.70	1987	.78	1988
Jul	3.71	3.28	4.23	1959	5	9.43	1971	.96	1983
Aug	3.10	2.92	5.50	1975	1	10.57	1975	.05	1981
Sep	2.98	2.61	3.90	1994	16	6.83	1979	.49	1984
Oct	3.49	2.66	5.35	1975	17	10.14	1984	.19	1989
Nov	5.28	5.16	4.45	1957	13	10.36	1977	1.64	1981
Dec	5.29	4.13	5.35	1990	22	17.95	1982	1.08	1980
Ann	55.78	55.24	5.67	Apr 1953	29	17.95	Dec 1982	.05	Aug 1981

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.8	8.6	4.2	1.7
Feb	8.3	6.5	3.7	1.8
Mar	8.8	6.9	3.6	2.2
Apr	7.3	5.8	3.6	1.9
May	9.8	7.7	3.9	1.8
Jun	7.6	5.5	2.2	.8
Jul	9.4	6.0	2.1	.9
Aug	7.4	5.3	2.1	.9
Sep	7.1	5.4	1.9	.9
Oct	6.0	4.5	2.3	1.2
Nov	8.4	6.4	3.8	1.6
Dec	10.0	7.7	3.6	1.8
Ann	100.9	76.3	37.0	17.5

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	1.45	2.03	2.92	3.72	4.51	5.36	6.30	7.42	8.89	11.22	13.42
Feb	1.56	2.02	2.70	3.29	3.85	4.43	5.06	5.81	6.76	8.26	9.63
Mar	2.40	2.96	3.76	4.42	5.05	5.69	6.38	7.18	8.19	9.74	11.16
Apr	1.23	1.76	2.62	3.40	4.18	5.02	5.96	7.10	8.59	10.98	13.25
May	1.27	1.80	2.63	3.38	4.14	4.93	5.83	6.91	8.32	10.57	12.69
Jun	1.04	1.36	1.83	2.23	2.62	3.02	3.47	3.99	4.66	5.70	6.67
Jul	.98	1.33	1.86	2.34	2.80	3.29	3.83	4.48	5.31	6.64	7.87
Aug	.44	.70	1.14	1.57	2.02	2.52	3.09	3.79	4.73	6.27	7.75
Sep	.81	1.09	1.52	1.90	2.27	2.65	3.08	3.59	4.25	5.29	6.25
Oct	.47	.75	1.25	1.73	2.24	2.80	3.46	4.26	5.34	7.12	8.83
Nov	1.93	2.43	3.14	3.74	4.31	4.89	5.52	6.26	7.20	8.64	9.97
Dec	1.41	1.91	2.68	3.35	4.01	4.70	5.47	6.38	7.57	9.42	11.17
Ann	39.94	43.01	46.95	49.93	52.58	55.14	57.78	60.69	64.23	69.35	73.78

\+ 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:
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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	.4	.0	#	0
Feb	#	.0	#	0
Mar	#	.0	#	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	#	.0	0	0
Dec	#	.0	0	0
Ann	.4	.0	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	3.5	1977	31	5.5	1977	2	1977	18	#	1977
Feb	#	1989	7	#+	1989	#	1989	8	#	1989
Mar	#	1981	19	#+	1981	#+	1981	19	#+	1981
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1976	29	#+	1976	0	0	0	0	0
Dec	#	1985	7	#+	1985	0	0	0	0	0
Ann	3.5	Jan 1977	31	5.5	Jan 1977	2	Jan 1977	18	#+	Feb 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.1	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.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	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.1	.1	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.1	.0	.0	.0

+ 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	4/19	4/14	4/10	4/07	4/04	4/01	3/29	3/25	3/20
32	4/11	4/05	3/31	3/28	3/24	3/21	3/17	3/12	3/06
28	3/26	3/18	3/12	3/07	3/03	2/26	2/21	2/15	2/07
24	3/15	3/06	2/28	2/22	2/17	2/12	2/06	1/31	1/22
20	3/06	2/23	2/16	2/09	2/03	1/27	1/20	1/12	12/30
16	2/22	2/10	2/01	1/22	1/10	0/00	0/00	0/00	0/00

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	10/07	10/13	10/18	10/21	10/25	10/29	11/01	11/06	11/12
32	10/20	10/26	10/30	11/03	11/06	11/09	11/13	11/17	11/23
28	11/01	11/08	11/12	11/16	11/20	11/23	11/27	12/02	12/08
24	11/10	11/19	11/26	12/02	12/08	12/13	12/19	12/26	1/05
20	11/22	12/03	12/10	12/16	12/22	12/28	1/04	1/11	1/24
16	12/12	12/25	1/05	1/15	1/28	0/00	0/00	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	227	219	213	208	203	199	194	188	180
32	253	244	237	232	226	221	215	208	199
28	292	281	274	267	261	255	249	241	231
24	325	312	304	297	291	284	278	270	260
20	>365	358	337	326	317	309	301	291	279
16	>365	>365	>365	>365	>365	>365	>365	332	313

***** 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	623	439	263	100	13	0	0	0	8	112	318	558	2434
60	478	310	149	36	2	0	0	0	1	48	201	415	1640
57	397	238	97	16	0	0	0	0	0	25	145	336	1254
55	346	195	69	9	0	0	0	0	0	15	113	288	1035
50	236	110	23	1	0	0	0	0	0	3	52	188	613
32	23	2	0	0	0	0	0	0	0	0	0	13	38

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	429	487	778	962	1243	1410	1545	1516	1302	1002	689	485	11848
55	39	36	134	280	530	720	832	803	612	303	112	47	4448
57	28	23	100	228	468	660	770	741	552	251	84	33	3938
60	17	11	59	158	377	570	677	648	463	182	49	19	3230
65	0	1	18	71	233	420	522	493	320	91	17	8	2194
70	0	0	3	21	117	272	367	338	193	35	4	0	1350

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	208	294	524	706	985	1160	1292	1264	1058	760	450	267	208	502	1026	1732	2717	3877	5169	6433	7491	8251	8701	8968
45	119	191	381	557	830	1010	1137	1109	908	605	319	167	119	310	691	1248	2078	3088	4225	5334	6242	6847	7166	7333
50	58	113	250	411	675	860	982	954	758	453	207	95	58	171	421	832	1507	2367	3349	4303	5061	5514	5721	5816
55	31	53	147	277	520	710	827	799	608	312	119	49	31	84	231	508	1028	1738	2565	3364	3972	4284	4403	4452
60	4	19	69	164	366	560	672	644	458	187	56	22	4	23	92	256	622	1182	1854	2498	2956	3143	3199	3221
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	134	191	326	456	665	793	873	855	713	504	297	176	134	325	651	1107	1772	2565	3438	4293	5006	5510	5807	5983

(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