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: FULTON 3 W, MS **COOP ID: 223208**

Climate Division: MS 3 **NWS Call Sign:** **Elevation: 350 Feet** **Lat: 34˚16N** **Lon: 88˚27W**

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	52.1	32.7	42.4	79	1972	24	50.7	1990	-14	1966	30	31.0	1977	701	0	.0	.0	18.7	1.5	17.2	.2
Feb	58.2	35.6	46.9	85	1996	23	55.3	1990	4+	1971	9	36.7	1978	506	0	.0	.0	21.2	.6	12.7	.0
Mar	67.0	42.9	55.0	87+	1963	31	61.1	1974	9	1980	3	49.3	1971	325	13	.0	.0	29.2	@	6.9	.0
Apr	75.2	49.5	62.4	94	1987	21	68.6	1981	25+	1973	11	57.6	1983	129	49	.0	.3	29.9	.0	2.0	.0
May	81.9	58.7	70.3	95+	1956	22	74.2	1987	31	1976	4	65.6	1976	25	189	.0	2.6	31.0	.0	@	.0
Jun	88.6	66.4	77.5	102+	1964	22	81.2	1998	40	1966	1	73.7	1974	0	375	.3	13.2	30.0	.0	.0	.0
Jul	91.8	70.7	81.3	108	1980	17	86.6	1980	48	1967	15	79.2	1994	0	505	1.6	21.4	31.0	.0	.0	.0
Aug	91.6	69.2	80.4	108	2000	29	84.7	1980	48	1986	29	75.6	1992	0	476	1.9	21.0	31.0	.0	.0	.0
Sep	85.8	63.3	74.6	101+	1977	1	78.5	1978	32	1967	29	71.0	1974	6	292	.3	8.8	30.0	.0	.0	.0
Oct	75.9	51.0	63.5	93+	1963	12	70.9	1984	24	1957	28	58.2	1988	130	82	.0	.3	30.9	.0	1.8	.0
Nov	64.2	42.9	53.6	85+	1974	2	61.5	1985	9	1970	24	45.2	1976	356	13	.0	.0	27.5	.0	7.8	.0
Dec	55.2	36.1	45.7	78+	1970	2	55.7	1984	-4	1989	23	36.5	2000	603	3	.0	.0	21.6	.6	13.9	.1
Ann	74.0	51.6	62.8	108+	Aug 2000	29	86.6	Jul 1980	-14	Jan 1966	30	31.0	Jan 1977	2781	1997	4.1	67.6	332.0	2.7	62.3	.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: 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	5.50	4.88	4.29	1999	23	12.13	1974	.76	1986
Feb	5.03	4.25	5.96	1991	19	12.42	1991	1.02	1978
Mar	6.58	5.24	9.15	1973	16	18.54	1973	2.05	1982
Apr	5.38	4.70	5.24	1962	11	14.40	1991	.68	1986
May	6.32	5.33	4.30	1984	8	21.35	1991	.66	1992
Jun	4.49	4.23	4.37	1963	24	11.98	1997	.25	1988
Jul	4.45	4.16	5.04	1979	9	9.92	1994	1.01	1993
Aug	3.60	3.06	7.35	1961	15	11.09	1995	.10	1999
Sep	4.11	3.74	4.40	1975	6	9.99	1975	.60	1984
Oct	3.49	3.31	3.52	1969	2	9.50	1984	.41	1987
Nov	5.28	4.42	3.96	2000	9	11.37	1986	2.16	1999
Dec	6.23	4.78	6.28	1990	21	20.34	1990	1.29	1980
Ann	60.46	58.13	9.15	Mar 1973	16	21.35	May 1991	.10	Aug 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	8.3	4.1	1.8
Feb	9.4	6.9	3.4	1.7
Mar	10.3	7.8	4.0	2.2
Apr	8.8	6.7	3.6	1.8
May	10.3	8.0	3.9	2.0
Jun	9.6	6.5	3.2	1.5
Jul	9.7	7.1	2.7	1.3
Aug	6.9	5.1	2.4	1.2
Sep	8.2	5.8	2.7	1.2
Oct	6.6	4.9	2.4	1.2
Nov	9.7	6.9	3.6	1.8
Dec	10.6	7.8	4.1	2.1
Ann	111.3	81.8	40.1	19.8

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	1.71	2.23	3.01	3.67	4.32	4.99	5.72	6.58	7.70	9.43	11.04
Feb	1.52	2.00	2.71	3.33	3.93	4.55	5.23	6.03	7.07	8.69	10.20
Mar	2.24	2.86	3.77	4.54	5.28	6.04	6.87	7.84	9.08	11.01	12.79
Apr	1.11	1.60	2.39	3.11	3.84	4.61	5.49	6.54	7.94	10.16	12.28
May	1.30	1.88	2.81	3.66	4.51	5.42	6.45	7.69	9.33	11.94	14.42
Jun	.89	1.30	1.96	2.56	3.17	3.83	4.57	5.46	6.65	8.55	10.35
Jul	1.07	1.49	2.14	2.71	3.29	3.90	4.58	5.38	6.44	8.12	9.70
Aug	.53	.83	1.35	1.84	2.36	2.94	3.59	4.40	5.48	7.25	8.95
Sep	.81	1.19	1.79	2.34	2.90	3.50	4.18	5.00	6.08	7.82	9.46
Oct	.70	1.02	1.53	2.00	2.47	2.98	3.55	4.24	5.16	6.62	8.01
Nov	1.94	2.44	3.15	3.75	4.31	4.89	5.52	6.25	7.19	8.63	9.94
Dec	1.41	1.99	2.90	3.72	4.54	5.41	6.39	7.56	9.09	11.53	13.83
Ann	42.31	45.80	50.29	53.70	56.74	59.68	62.72	66.08	70.17	76.11	81.25

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.8	.0	#	0
Feb	.9	.0	#	0
Mar	.2	.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	.1	.0	#	0
Ann	2.0	.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	2000	28	5.0	2000	5	1988	9	1	1988
Feb	4.0	1985	2	8.0	1985	3	1996	3	#+	1996
Mar	2.0	1993	13	2.0	1993	2+	1993	13	#+	1993
Apr	.5	1987	3	.5	1987	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	.7	1991	8	.7	1991	0	0	0	0	0
Dec	1.5	1985	20	1.5	1985	1	1983	17	#+	2000
Ann	4.0	Feb 1985	2	8.0	Feb 1985	5	Jan 1988	9	1	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.3	@	.0	.0
Feb	.4	.4	@	.0	.0
Mar	.1	.1	.0	.0	.0
Apr	@	.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
Dec	.1	.1	.0	.0	.0
Ann	1.2	.9	@	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	.0	.0
Feb	.1	.0	.0	.0
Mar	.1	.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	.4	@	.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	5/03	4/28	4/24	4/21	4/17	4/14	4/11	4/07	4/01
32	4/24	4/19	4/15	4/11	4/08	4/05	4/02	3/29	3/24
28	4/08	4/02	3/29	3/25	3/22	3/19	3/15	3/11	3/05
24	3/20	3/13	3/08	3/03	2/27	2/23	2/19	2/13	2/06
20	3/15	3/06	2/28	2/23	2/18	2/13	2/08	2/01	1/24
16	3/04	2/23	2/16	2/10	2/04	1/29	1/22	1/13	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	10/01	10/05	10/08	10/11	10/14	10/16	10/19	10/22	10/26
32	10/06	10/12	10/17	10/21	10/24	10/28	11/01	11/05	11/12
28	10/22	10/29	11/02	11/06	11/10	11/14	11/18	11/22	11/29
24	11/02	11/10	11/16	11/22	11/26	12/01	12/07	12/13	12/21
20	11/18	11/27	12/04	12/10	12/16	12/22	12/28	1/04	1/14
16	12/05	12/14	12/21	12/27	1/02	1/08	1/15	1/24	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	198	191	186	182	179	175	171	166	160
32	224	215	209	203	198	193	188	182	173
28	259	250	243	237	232	227	221	214	205
24	302	291	284	278	272	266	259	252	241
20	334	318	309	303	296	290	284	277	267
16	>365	>365	354	337	328	320	312	304	293

***** 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	701	506	325	129	25	0	0	0	6	130	356	603	2781
60	559	376	200	54	5	0	0	0	1	61	231	460	1947
57	474	301	141	26	1	0	0	0	0	34	171	378	1526
55	419	255	108	15	0	0	0	0	0	21	136	327	1281
50	298	159	46	2	0	0	0	0	0	6	68	219	798
32	41	7	0	0	0	0	0	0	0	0	0	19	67

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	362	425	710	910	1187	1365	1528	1499	1276	975	647	442	11326
55	28	29	106	235	474	675	815	786	586	283	94	37	4148
57	20	19	77	186	413	615	753	724	526	234	68	26	3661
60	12	10	43	124	324	525	660	631	437	168	39	15	2988
65	0	0	13	49	189	375	505	476	292	82	13	3	1997
70	0	0	2	13	88	230	350	322	165	30	2	0	1202

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	169	255	467	662	933	1108	1258	1228	1015	705	398	225	169	424	891	1553	2486	3594	4852	6080	7095	7800	8198	8423
45	92	161	328	514	778	958	1103	1073	865	551	272	134	92	253	581	1095	1873	2831	3934	5007	5872	6423	6695	6829
50	47	88	208	371	623	808	948	918	715	402	168	71	47	135	343	714	1337	2145	3093	4011	4726	5128	5296	5367
55	22	42	118	242	468	658	793	763	565	265	90	34	22	64	182	424	892	1550	2343	3106	3671	3936	4026	4060
60	1	14	56	134	318	508	638	608	418	150	40	13	1	15	71	205	523	1031	1669	2277	2695	2845	2885	2898
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	103	167	302	436	623	756	857	828	684	471	250	135	103	270	572	1008	1631	2387	3244	4072	4756	5227	5477	5612

(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/normals/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.
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