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: TUNICA 2, MS **COOP ID: 228998**

Climate Division: MS 1 **NWS Call Sign:** **Elevation: 199 Feet** **Lat: 34˚41N** **Lon: 90˚23W**

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	47.6	30.9	39.3	78+	1972	25	46.6	1990	-5	1962	12	28.7	1977	797	0	.0	.0	13.7	3.9	18.9	.1
Feb	53.2	34.8	44.0	81	1962	14	52.9	1976	2	1996	3	31.9	1978	590	3	.0	.0	17.8	2.3	12.6	.0
Mar	62.5	43.4	53.0	86	1967	14	57.7	1974	13	1996	8	46.9	1996	381	7	.0	.0	27.0	.2	4.5	.0
Apr	72.0	51.4	61.7	93+	1987	22	68.3	1981	27	1996	7	56.0	1983	153	54	.0	.2	29.5	.0	.5	.0
May	80.6	60.5	70.6	98	1977	31	76.1	1998	39	1976	4	65.0	1976	37	209	.0	3.1	31.0	.0	.0	.0
Jun	88.5	68.2	78.4	101	1988	30	83.3	1998	46+	1966	1	73.8	1974	0	402	.2	14.6	30.0	.0	.0	.0
Jul	91.9	71.7	81.8	105+	1980	14	85.5	1986	53	1967	15	78.9	1972	0	520	1.0	22.4	31.0	.0	.0	.0
Aug	90.6	68.9	79.8	106+	2000	30	86.1	2000	50	1986	29	74.7	1992	0	458	.7	19.5	31.0	.0	.0	.0
Sep	84.7	62.4	73.6	106	2000	1	80.8	1998	37+	1967	29	67.3	1974	15	271	.2	9.2	30.0	.0	.0	.0
Oct	74.8	50.7	62.8	96	1998	3	68.9	1971	27	1965	25	57.3	1976	134	66	.0	.7	30.9	.0	.3	.0
Nov	61.6	42.2	51.9	85	1984	1	57.4	1985	15	1970	24	43.5	1976	399	6	.0	.0	25.3	.1	5.6	.0
Dec	51.5	34.4	43.0	80	1982	3	52.3	1984	-10	1963	24	32.7	2000	683	0	.0	.0	18.4	1.9	14.2	.1
Ann	71.6	51.6	61.7	106+	Sep 2000	1	86.1	Aug 2000	-10	Dec 1963	24	28.7	Jan 1977	3189	1996	2.1	69.7	315.6	8.4	56.6	.2

\+ 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: 1959-2001

(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	4.61	4.08	3.80	1989	12	10.08	1974	.35	1986
Feb	4.05	3.95	5.25	1966	10	8.76	1989	.96	1972
Mar	5.57	4.97	4.38	1980	17	11.76	1980	2.12	1986
Apr	5.74	5.41	6.22	1973	20	17.01	1991	1.38	1989
May	5.76	5.47	5.35	1990	20	10.52	1984	1.17	1992
Jun	5.25	4.30	6.16	1974	1	12.86	1974	.64	1988
Jul	3.77	3.10	4.90	1959	25	9.15	1995	.54	1986
Aug	2.46	2.10	5.21	1982	14	5.90	1991	.10	2000
Sep	2.67	2.03	4.10	1965	11	8.42	1977	.54	1986
Oct	3.35	3.07	5.07	1984	7	12.98	1984	.08	2000
Nov	5.41	4.73	6.80	2001	29	12.43	1987	1.30	1989
Dec	5.54	4.81	4.68	1982	4	16.69	1982	.67	1980
Ann	54.18	54.60	6.80	Nov 2001	29	17.01	Apr 1991	.08	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.6	7.2	3.2	1.3
Feb	7.5	5.9	3.1	1.3
Mar	10.1	7.8	3.7	1.7
Apr	8.6	6.8	3.7	2.0
May	9.3	7.0	3.6	1.9
Jun	7.9	6.4	3.3	1.6
Jul	6.8	5.2	2.7	1.0
Aug	5.6	4.2	1.7	.7
Sep	6.2	4.6	1.7	.7
Oct	6.5	5.0	2.2	1.1
Nov	8.6	6.5	3.4	1.8
Dec	9.3	6.9	4.0	2.0
Ann	96.0	73.5	36.3	17.1

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	1.17	1.60	2.27	2.86	3.45	4.07	4.76	5.57	6.64	8.33	9.91
Feb	1.15	1.54	2.12	2.62	3.12	3.63	4.20	4.88	5.75	7.12	8.39
Mar	2.28	2.79	3.51	4.10	4.66	5.22	5.83	6.54	7.43	8.79	10.03
Apr	1.68	2.23	3.05	3.76	4.44	5.16	5.96	6.89	8.10	9.99	11.75
May	1.71	2.26	3.08	3.79	4.47	5.19	5.98	6.91	8.11	9.99	11.74
Jun	1.54	2.04	2.79	3.44	4.07	4.72	5.45	6.30	7.41	9.13	10.74
Jul	.95	1.30	1.85	2.34	2.82	3.32	3.89	4.56	5.44	6.83	8.13
Aug	.31	.51	.86	1.20	1.56	1.96	2.43	3.01	3.79	5.07	6.32
Sep	.52	.76	1.16	1.52	1.88	2.27	2.72	3.25	3.96	5.10	6.18
Oct	.53	.82	1.31	1.77	2.25	2.77	3.36	4.09	5.06	6.64	8.15
Nov	1.46	1.98	2.76	3.44	4.11	4.82	5.60	6.53	7.73	9.62	11.39
Dec	1.08	1.58	2.40	3.14	3.90	4.71	5.63	6.74	8.21	10.57	12.81
Ann	40.64	43.32	46.72	49.27	51.53	53.71	55.94	58.40	61.36	65.64	69.31

\+ 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: 1959-2001
(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	1.1	.0	#	0
Feb	.1	.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	.1	.0	0	0
Dec	#	.0	#	0
Ann	1.3	.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	8.0	1988	7	8.0	1988	3	2000	29	#+	2000
Feb	1.0	1986	11	1.0+	1996	1	1996	6	#+	1997
Mar	#	1994	10	#+	1994	1	1980	1	#+	1993
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	2.1	1991	8	2.1	1991	0	0	0	0	0
Dec	#	1989	17	#+	1989	1	1998	25	#+	1998
Ann	8.0	Jan 1988	7	8.0	Jan 1988	3	Jan 2000	29	#+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.2	.1	.1	.0
Feb	.1	.1	.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	.1	.1	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.5	.4	.1	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.0	.0
Feb	.2	.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	.3	.1	.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	4/17	4/12	4/09	4/06	4/03	4/01	3/29	3/26	3/21
32	4/07	4/02	3/29	3/25	3/22	3/19	3/16	3/12	3/06
28	3/27	3/19	3/14	3/09	3/05	2/28	2/23	2/18	2/10
24	3/12	3/03	2/25	2/20	2/15	2/11	2/05	1/30	1/22
20	3/06	2/25	2/19	2/13	2/08	2/02	1/27	1/20	1/05
16	2/27	2/16	2/08	2/02	1/26	1/18	1/09	12/23	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	10/10	10/15	10/18	10/21	10/24	10/27	10/30	11/02	11/07
32	10/24	10/30	11/03	11/06	11/09	11/12	11/15	11/19	11/25
28	11/01	11/07	11/12	11/16	11/20	11/24	11/28	12/03	12/10
24	11/14	11/21	11/26	11/30	12/04	12/08	12/12	12/17	12/24
20	11/28	12/09	12/17	12/24	12/31	1/06	1/14	1/24	2/11
16	12/10	12/19	12/26	1/01	1/07	1/13	1/21	2/05	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	222	215	211	207	203	199	195	191	185
32	258	249	242	236	231	226	220	213	204
28	291	280	273	266	260	254	247	239	229
24	329	316	307	299	291	283	275	266	253
20	>365	>365	348	333	323	314	306	297	284
16	>365	>365	>365	>365	361	339	325	313	299

***** 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	797	590	381	153	37	0	0	0	15	134	399	683	3189
60	646	460	244	72	11	0	0	0	3	59	266	538	2299
57	560	384	177	39	4	0	0	0	0	32	199	453	1848
55	503	337	139	24	2	0	0	0	0	19	160	398	1582
50	368	233	67	5	0	0	0	0	0	4	84	276	1037
32	61	27	0	0	0	0	0	0	0	0	1	31	120

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	287	363	650	891	1195	1391	1543	1481	1246	954	599	371	10971
55	16	29	76	226	484	701	830	768	556	260	68	25	4039
57	11	21	52	181	424	641	768	706	496	211	47	17	3575
60	4	12	26	124	337	551	675	613	409	146	24	10	2931
65	0	3	7	54	209	402	520	458	271	66	6	0	1996
70	0	0	0	17	111	257	365	308	156	22	0	0	1236

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	122	209	409	655	950	1160	1300	1239	1009	707	374	180	122	331	740	1395	2345	3505	4805	6044	7053	7760	8134	8314
45	63	124	281	509	795	1010	1145	1084	859	552	252	99	63	187	468	977	1772	2782	3927	5011	5870	6422	6674	6773
50	27	61	172	368	640	860	990	929	709	402	153	49	27	88	260	628	1268	2128	3118	4047	4756	5158	5311	5360
55	9	24	92	238	486	710	835	774	559	267	83	17	9	33	125	363	849	1559	2394	3168	3727	3994	4077	4094
60	0	4	38	137	341	560	680	619	411	157	37	2	0	4	42	179	520	1080	1760	2379	2790	2947	2984	2986
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	69	121	235	401	633	803	893	850	677	451	217	97	69	190	425	826	1459	2262	3155	4005	4682	5133	5350	5447

(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