

# Climatology of the United States

No. 20

1971-2000

Station: YAZOO CITY 5 NNE, MS

COOP ID: 229860

Climate Division: MS 4

NWS Call Sign:

Elevation: 107 Feet

Lat: 32° 54N

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	54.5	35.3	44.9	84	1972	24	52.8	1999	-4	1962	12	34.0	1977	632	0	.0	.0	20.3	1.2	13.5	.0
Feb	59.8	38.9	49.4	87	1977	25	56.4	1976	4	1960	14	38.8	1978	441	3	.0	.0	22.8	.4	7.8	.0
Mar	67.8	46.1	57.0	90+	1963	17	62.1	1997	15	1996	9	52.3	1971	268	19	.0	@	29.3	@	2.4	.0
Apr	75.5	53.0	64.3	94	1987	21	71.4	1981	28+	1987	4	58.9	1983	99	76	.0	.3	30.0	.0	.4	.0
May	82.7	62.0	72.4	98	1978	27	77.3	1996	39+	1960	13	66.8	1976	14	241	.0	4.8	31.0	.0	.0	.0
Jun	89.5	69.0	79.3	102+	1969	30	83.4	1998	50	1969	3	75.1	1974	0	428	.2	18.5	30.0	.0	.0	.0
Jul	91.9	72.2	82.1	106	1980	16	85.9	1980	53	1967	15	79.7	1989	0	529	1.1	24.3	31.0	.0	.0	.0
Aug	91.7	71.0	81.4	105	2000	30	84.6	2000	52	1961	22	77.3	1992	0	507	1.0	23.5	31.0	.0	.0	.0
Sep	86.6	65.3	76.0	102+	2000	1	81.6	1998	35	1967	29	70.5	1974	5	335	.4	13.5	30.0	.0	.0	.0
Oct	77.1	53.8	65.5	96	1998	2	71.0	1984	28	1960	21	58.8	1976	92	106	.0	1.6	30.9	.0	.1	.0
Nov	66.1	44.5	55.3	88	1971	2	61.3	1973	18	1976	30	46.9	1976	308	17	.0	.0	28.1	.0	3.8	.0
Dec	57.4	37.8	47.6	84+	1962	4	58.6	1984	2	1989	23	37.1	2000	549	9	.0	.0	23.1	.7	10.8	.0
Ann	75.1	54.1	64.6	106	Jul 1980	16	85.9	Jul 1980	-4	Jan 1962	12	34.0	Jan 1977	2408	2270	2.7	86.5	337.5	2.3	38.8	.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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1960-2001

(3) Derived from 1971-2000 serially complete daily data

071-A

**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: YAZOO CITY 5 NNE, MS**

**COOP ID: 229860**

**Climate Division: MS 4**

**NWS Call Sign:**

**Elevation: 107 Feet**

**Lat: 32°54N**

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Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	6.30	5.31	4.98	2001	18	14.41	1974	.41	1986	10.6	7.7	4.2	2.1	1.50	2.09	3.01	3.83	4.65	5.52	6.48	7.64	9.15	11.55	13.80
Feb	5.07	5.19	3.95	1966	10	10.12	1997	1.38	1999	8.5	6.3	3.4	1.7	1.33	1.81	2.54	3.19	3.82	4.49	5.24	6.12	7.27	9.08	10.77
Mar	6.81	6.58	5.75	1987	17	15.95	1980	2.70	1985	10.2	7.6	4.3	2.6	2.95	3.56	4.42	5.12	5.77	6.43	7.14	7.96	8.99	10.56	11.97
Apr	5.97	5.37	4.88	1979	12	17.50	1991	.65	1981	7.8	6.1	3.7	2.2	1.17	1.70	2.58	3.38	4.20	5.08	6.07	7.27	8.85	11.40	13.81
May	5.57	5.46	4.41	1995	29	14.57	1983	.94	1992	9.0	7.0	3.6	2.0	1.41	1.94	2.75	3.46	4.17	4.91	5.74	6.73	8.02	10.05	11.96
Jun	4.04	3.94	4.73	1980	24	8.37	1989	.83	1988	8.1	5.5	2.8	1.3	1.14	1.53	2.11	2.61	3.10	3.62	4.18	4.85	5.73	7.09	8.36
Jul	4.18	4.22	3.61	1976	4	10.38	1971	.18	2000	8.0	6.0	2.6	1.4	.78	1.15	1.77	2.33	2.91	3.53	4.24	5.09	6.22	8.04	9.77
Aug	3.37	2.46	4.85	1962	24	10.41	1992	.26	1980	6.7	4.6	1.9	1.0	.39	.64	1.12	1.59	2.09	2.65	3.31	4.12	5.23	7.05	8.83
Sep	2.86	2.78	3.71	1964	28	5.83	1979	.09	1984	7.0	4.7	2.0	.8	.59	.85	1.27	1.65	2.04	2.45	2.92	3.48	4.22	5.41	6.54
Oct	4.12	3.39	5.37	1980	27	10.15	1984	.67	1989	7.0	4.9	2.5	1.5	.68	1.04	1.64	2.21	2.79	3.42	4.15	5.03	6.21	8.12	9.95
Nov	5.20	4.77	4.56	1987	16	11.30	1986	.97	1999	8.8	6.6	3.7	1.7	1.73	2.23	2.95	3.56	4.15	4.76	5.42	6.20	7.20	8.74	10.17
Dec	6.25	5.66	6.35	1973	24	17.34	1982	1.38	1980	10.0	7.1	4.0	2.2	1.81	2.41	3.30	4.08	4.83	5.62	6.48	7.51	8.83	10.91	12.84
Ann	59.74	57.91	6.35	Dec 1973	24	17.50	Apr 1991	.09	Sep 1984	101.7	74.1	38.7	20.5	43.70	46.84	50.84	53.87	56.55	59.13	61.79	64.73	68.27	73.40	77.83

+ 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: 1960-2001

(3) Derived from 1971-2000 serially complete daily data

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Climate Division: MS 4

NWS Call Sign:

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Lon: 90°23W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.2	.0	#	0	2.5	1978	19	2.5	1978	#	1971	7	#	1971	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1989	6	#+	1989	#+	1989	7	#+	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1989	7	#+	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	#	0	#	1991	8	#+	1991	#	1991	8	#	1991	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1996	18	#	1996	#	1996	18	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	2.5	Jan 1978	19	2.5	Jan 1978	#+	Dec 1996	18	#+	Dec 1996	.1	.1	.0	.0	.0	.0	.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	4/15	4/10	4/06	4/03	3/31	3/29	3/26	3/22	3/17
32	4/07	3/30	3/25	3/20	3/16	3/12	3/07	3/01	2/22
28	3/21	3/13	3/07	3/02	2/25	2/20	2/15	2/09	2/01
24	3/09	2/28	2/21	2/16	2/10	2/05	1/30	1/23	1/11
20	2/21	2/12	2/04	1/28	1/20	1/11	0/00	0/00	0/00
16	2/11	1/29	1/19	1/08	12/20	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	10/17	10/23	10/27	10/31	11/03	11/06	11/10	11/14	11/20
32	10/30	11/04	11/08	11/11	11/14	11/18	11/21	11/25	11/30
28	11/06	11/14	11/20	11/25	11/30	12/05	12/10	12/16	12/24
24	11/22	12/02	12/08	12/14	12/19	12/25	12/31	1/07	1/18
20	12/05	12/14	12/21	12/28	1/04	1/13	0/00	0/00	0/00
16	12/19	1/01	1/11	1/23	2/11	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	240	232	226	221	216	211	206	200	192
32	272	262	255	249	243	237	231	223	213
28	313	301	292	284	277	270	262	253	241
24	>365	334	322	314	308	302	295	288	278
20	>365	>365	>365	>365	>365	347	328	316	303
16	>365	>365	>365	>365	>365	>365	>365	>365	330

\* 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

Complete documentation available from:  
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**Elevation: 107 Feet**

**Lat: 32°54N**

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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	632	441	268	99	14	0	0	0	5	92	308	549	2408
60	487	313	154	37	2	0	0	0	0	36	191	408	1628
57	406	242	102	17	0	0	0	0	0	17	137	330	1251
55	355	201	74	9	0	0	0	0	0	10	106	284	1039
50	246	118	26	1	0	0	0	0	0	2	48	187	628
32	27	3	0	0	0	0	0	0	0	0	0	14	44

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	427	489	774	967	1250	1418	1552	1530	1319	1037	699	497	11959
55	42	43	135	286	537	728	839	817	629	334	115	54	4559
57	31	29	101	234	475	668	777	755	569	279	86	38	4042
60	19	15	60	164	384	578	684	662	480	205	51	23	3325
65	0	3	19	76	241	428	529	507	335	106	17	9	2270
70	0	0	4	24	125	279	374	352	203	43	3	0	1407

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	233	323	553	747	1022	1193	1324	1301	1101	811	480	293	233	556	1109	1856	2878	4071	5395	6696	7797	8608	9088	9381
45	143	218	406	597	867	1043	1169	1146	951	656	347	184	143	361	767	1364	2231	3274	4443	5589	6540	7196	7543	7727
50	79	130	277	450	712	893	1014	991	801	503	230	108	79	209	486	936	1648	2541	3555	4546	5347	5850	6080	6188
55	41	67	168	315	557	743	859	836	651	355	133	61	41	108	276	591	1148	1891	2750	3586	4237	4592	4725	4786
60	18	28	86	192	402	593	704	681	502	228	69	28	18	46	132	324	726	1319	2023	2704	3206	3434	3503	3531
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	142	195	338	481	697	824	907	890	750	530	296	170	142	337	675	1156	1853	2677	3584	4474	5224	5754	6050	6220

(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](http://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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)