

# Climatology of the United States

No. 20

1971-2000

Station: GREENVILLE, MS

COOP ID: 223605

Climate Division: MS 4

NWS Call Sign:

Elevation: 132 Feet

Lat: 33° 23N

Lon: 91° 01W

## 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	51.6	33.0	42.3	90	1950	25	48.1	1990	0+	1936	31	31.6	1977	705	0	.0	.0	18.2	1.7	14.5	@
Feb	57.6	36.8	47.2	91	1950	9	54.0	1976	-2	1951	2	36.3	1978	498	0	.0	.0	21.1	.7	9.0	.0
Mar	65.7	44.7	55.2	91	1929	24	60.8	1974	15	1943	3	49.9	1996	316	12	.0	.0	28.8	.1	2.1	.0
Apr	74.5	52.3	63.4	97+	1987	22	69.8	1981	29	1924	1	57.9	1983	118	70	.0	.4	29.9	.0	.1	.0
May	82.7	61.9	72.3	100	1977	31	77.1	1987	39	1925	2	67.7	1976	16	243	@	5.2	31.0	.0	.0	.0
Jun	89.8	69.5	79.7	105	1936	20	82.7	1977	49+	1956	3	76.1+	1976	0	439	.6	18.4	30.0	.0	.0	.0
Jul	92.6	72.5	82.6	110	1930	29	87.0	1980	53	1947	23	79.4	1989	0	545	2.2	24.4	31.0	.0	.0	.0
Aug	91.8	70.7	81.3	107+	1930	8	85.4	2000	54+	1946	31	76.3	1992	0	504	1.3	22.7	31.0	.0	.0	.0
Sep	86.5	63.8	75.2	107+	1925	6	80.3	1998	37	1942	29	70.1	1974	6	310	.2	12.9	30.0	.0	.0	.0
Oct	77.1	51.9	64.5	96+	1926	1	69.3	1971	27	1993	31	59.4	1976	96	81	.0	1.3	30.9	.0	.2	.0
Nov	64.4	42.8	53.6	88	1971	2	59.2	1985	16	1950	25	46.6	1976	351	9	.0	.0	27.3	@	3.8	.0
Dec	55.1	35.8	45.5	85	1924	16	55.9	1984	1+	1989	22	34.8	2000	609	3	.0	.0	21.6	1.0	11.8	.0
Ann	74.1	53.0	63.6	110	Jul 1930	29	87.0	Jul 1980	-2	Feb 1951	2	31.6	Jan 1977	2715	2216	4.3	85.3	330.8	3.5	41.5	@

+ 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: 1920-2001

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

020-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: GREENVILLE, MS

COOP ID: 223605

Climate Division: MS 4

NWS Call Sign:

Elevation: 132 Feet

Lat: 33°23N

Lon: 91°01W

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	5.32	4.76	5.55	1945	1	14.79	1999	.27	1986	9.9	7.1	3.6	1.8	1.07	1.55	2.33	3.05	3.77	4.54	5.42	6.48	7.88	10.11	12.24
Feb	4.70	4.52	6.50	1991	19	12.39	1991	.41	1972	7.6	6.2	3.4	1.7	.86	1.28	1.97	2.61	3.26	3.96	4.76	5.73	7.01	9.08	11.05
Mar	5.81	5.16	4.50	1975	13	15.83	1973	2.03	1982	9.3	7.3	4.1	1.9	2.08	2.63	3.42	4.08	4.72	5.37	6.07	6.90	7.95	9.57	11.06
Apr	5.40	4.63	8.12	1927	16	11.73	1979	.98	1981	7.7	6.2	3.5	1.8	1.42	1.93	2.71	3.40	4.08	4.79	5.58	6.51	7.73	9.65	11.45
May	5.33	5.72	6.60	1930	9	12.62	1978	.56	1988	9.0	6.4	3.6	1.8	.98	1.45	2.24	2.96	3.70	4.50	5.40	6.50	7.96	10.31	12.54
Jun	4.51	4.11	4.00	1982	26	9.24	1989	.99	1988	8.3	6.1	3.1	1.5	1.61	2.04	2.65	3.17	3.66	4.16	4.71	5.35	6.17	7.43	8.58
Jul	3.95	2.95	4.58	1950	16	11.12	1989	.61	1980	7.3	5.2	2.6	1.2	.73	1.08	1.66	2.20	2.74	3.33	4.00	4.81	5.88	7.61	9.26
Aug	2.20	1.81	4.20	1950	31	7.92	1974	.00+	2000	5.1	3.5	1.6	.5	.00	.16	.51	.85	1.22	1.63	2.12	2.72	3.56	4.96	6.33
Sep	2.74	2.39	5.18	1958	21	5.49	1977	.28	1987	5.7	4.2	1.8	.9	.76	1.02	1.41	1.76	2.09	2.45	2.84	3.30	3.90	4.85	5.73
Oct	3.39	3.26	3.57	1941	31	10.02	1984	.17	1987	5.9	4.5	2.1	1.2	.39	.65	1.12	1.60	2.10	2.66	3.32	4.14	5.25	7.09	8.87
Nov	5.60	4.12	6.25	2001	28	19.56	1986	1.31	1999	8.6	6.2	3.4	1.9	1.33	1.86	2.68	3.41	4.13	4.90	5.76	6.78	8.13	10.25	12.25
Dec	5.25	4.59	5.35	1982	4	19.34	1982	.49	1980	9.3	6.8	3.5	1.8	1.17	1.66	2.43	3.12	3.82	4.55	5.38	6.38	7.68	9.76	11.72
Ann	54.20	53.34	8.12	Apr 1927	16	19.56	Nov 1986	.00+	Aug 2000	93.7	69.7	36.3	18.0	37.90	41.04	45.06	48.13	50.86	53.50	56.23	59.25	62.93	68.27	72.89

+ 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: 1920-2001

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

Complete documentation available from:  
[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

# 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](http://www.ncdc.noaa.gov)

Station: GREENVILLE, MS

COOP ID: 223605

Climate Division: MS 4

NWS Call Sign:

Elevation: 132 Feet

Lat: 33°23N

Lon: 91°01W

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	.6	.0	#	0	3.0	1975	12	3.0+	1992	2	1982	14	#	1982	.2	.2	.1	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1989	4	#+	1989	#	1989	7	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1980	1	#	1980	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	0	#	1976	28	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	3.0	Jan 1975	12	3.0+	Jan 1992	2	Jan 1982	14	#+	Feb 1989	.2	.2	.1	.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

Complete documentation available from:

[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

**Climatography  
of the United States  
No. 20  
1971-2000**

**Station: GREENVILLE, MS**

**COOP ID: 223605**

**Climate Division: MS 4**

**NWS Call Sign:**

**Elevation: 132 Feet**

**Lat: 33°23N**

**Lon: 91°01W**

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	4/13	4/07	4/03	3/30	3/27	3/23	3/20	3/16	3/10
32	3/27	3/21	3/16	3/12	3/09	3/05	3/01	2/25	2/19
28	3/15	3/08	3/04	2/27	2/24	2/20	2/15	2/11	2/04
24	3/11	3/02	2/24	2/18	2/13	2/08	2/03	1/28	1/19
20	3/01	2/18	2/10	2/02	1/26	1/18	1/08	12/21	0/00
16	2/08	1/27	1/17	1/05	0/00	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	10/18	10/23	10/27	10/30	11/02	11/05	11/09	11/12	11/18
32	10/29	11/05	11/09	11/13	11/17	11/20	11/24	11/29	12/05
28	11/07	11/14	11/19	11/24	11/28	12/01	12/06	12/11	12/18
24	11/21	11/30	12/06	12/12	12/17	12/22	12/27	1/03	1/12
20	12/08	12/18	12/25	1/01	1/08	1/15	1/24	2/09	0/00
16	12/18	12/30	1/09	1/21	0/00	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	243	235	229	224	220	215	210	204	196
32	278	269	263	257	252	247	241	235	226
28	304	294	288	282	276	271	265	258	249
24	343	325	316	309	302	296	289	281	271
20	>365	>365	>365	>365	353	338	327	316	303
16	>365	>365	>365	>365	>365	>365	>365	>365	338

\* 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:

[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

**Climatography  
of the United States  
No. 20  
1971-2000**

**Station: GREENVILLE, MS**

**COOP ID: 223605**

**Climate Division: MS 4**

**NWS Call Sign:**

**Elevation: 132 Feet**

**Lat: 33° 23N**

**Lon: 91° 01W**

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	705	498	316	118	16	0	0	0	6	96	351	609	2715
60	558	367	191	49	3	0	0	0	0	36	224	466	1894
57	472	292	132	24	1	0	0	0	0	16	162	383	1482
55	416	245	99	14	0	0	0	0	0	9	127	332	1242
50	290	149	40	2	0	0	0	0	0	1	61	222	765
32	33	5	0	0	0	0	0	0	0	0	0	19	57

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	351	431	719	942	1250	1429	1568	1527	1294	1008	648	435	11602
55	21	27	105	266	537	739	855	814	604	303	86	35	4392
57	15	18	76	216	475	679	793	752	544	249	60	24	3901
60	9	9	42	151	385	589	700	659	454	176	32	14	3220
65	0	0	12	70	243	439	545	504	310	81	9	3	2216
70	0	0	1	23	128	291	390	349	182	28	0	0	1392

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	190	288	513	732	1018	1203	1333	1290	1071	783	443	248	190	478	991	1723	2741	3944	5277	6567	7638	8421	8864	9112
45	105	183	369	582	863	1053	1178	1135	921	628	310	149	105	288	657	1239	2102	3155	4333	5468	6389	7017	7327	7476
50	54	101	244	434	708	903	1023	980	771	476	201	82	54	155	399	833	1541	2444	3467	4447	5218	5694	5895	5977
55	25	50	140	297	553	753	868	825	621	330	113	42	25	75	215	512	1065	1818	2686	3511	4132	4462	4575	4617
60	3	17	69	177	401	603	713	670	473	201	50	12	3	20	89	266	667	1270	1983	2653	3126	3327	3377	3389
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	111	171	305	462	691	828	912	881	724	506	268	147	111	282	587	1049	1740	2568	3480	4361	5085	5591	5859	6006

(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 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)