

# Climatology of the United States

## No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: BATESVILLE 2 SW, MS

1971-2000

COOP ID: 220488

Climate Division: MS 2

NWS Call Sign:

Elevation: 220 Feet

Lat: 34° 18N

Lon: 89° 59W

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	49.8	29.2	39.5	80+	1949	11	46.7	1989	-9	1966	30	27.3	1977	791	0	.0	.0	15.8	2.9	20.2	.2
Feb	55.3	32.2	43.8	82	1957	9	51.3	1976	-16	1951	2	33.0	1978	595	0	.0	.0	19.1	1.3	15.4	.0
Mar	64.1	40.3	52.2	89+	1963	29	57.8	2000	11	1968	23	46.2	1971	402	5	.0	.0	27.8	.1	8.1	.0
Apr	72.8	48.2	60.5	93	1987	22	66.6	1981	24	1975	4	54.8	1983	172	37	.0	.1	29.6	.0	1.7	.0
May	80.6	57.8	69.2	99	1977	31	74.9	1987	35	1976	4	62.7	1976	49	180	.0	2.0	31.0	.0	.0	.0
Jun	87.8	65.9	76.9	104+	1952	28	80.4	1998	44	1977	8	72.3	1974	1	356	.2	12.0	30.0	.0	.0	.0
Jul	91.1	69.3	80.2	106	1986	31	83.5	1986	50	1972	8	77.3	1972	0	472	.7	21.0	31.0	.0	.0	.0
Aug	90.6	66.8	78.7	107	2000	31	83.1	2000	47	1968	29	73.5	1992	0	424	.7	19.5	31.0	.0	.0	.0
Sep	85.5	60.1	72.8	105+	1954	4	78.7	1998	35	1949	30	67.3	1974	16	251	.3	9.8	30.0	.0	.0	.0
Oct	75.7	48.0	61.9	96+	1954	4	67.6	1971	22	2000	10	56.1	1987	161	63	.0	.8	30.9	.0	1.9	.0
Nov	63.4	39.4	51.4	88	1961	1	57.5	1985	8+	1950	25	42.7	1976	414	7	.0	.0	26.4	.1	9.9	.0
Dec	53.4	32.3	42.9	82+	1951	31	53.4	1984	-11	1963	24	33.1	1989	686	0	.0	.0	19.6	1.5	17.9	.1
Ann	72.5	49.1	60.8	107	Aug 2000	31	83.5	Jul 1986	-16	Feb 1951	2	27.3	Jan 1977	3287	1795	1.9	65.2	322.2	5.9	75.1	.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/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: 1948-2001

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

002-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: BATESVILLE 2 SW, MS**

**COOP ID: 220488**

**Climate Division: MS 2**

**NWS Call Sign:**

**Elevation: 220 Feet**

**Lat: 34°18N**

**Lon: 89°59W**

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	4.76	4.31	4.75	1951	3	12.27	1974	.31	1986	9.1	7.5	3.2	1.5	1.00	1.44	2.14	2.77	3.41	4.09	4.86	5.78	7.00	8.95	10.79
Feb	4.28	3.97	4.72	1991	19	12.19	1991	.64	1994	7.5	5.9	3.3	1.5	.93	1.32	1.95	2.52	3.09	3.70	4.38	5.20	6.28	8.00	9.63
Mar	5.88	5.24	5.69	1973	15	16.85	1973	1.60	1982	9.1	7.0	4.1	2.1	2.12	2.67	3.47	4.14	4.78	5.43	6.15	6.97	8.03	9.67	11.17
Apr	5.19	4.54	3.74	1955	13	16.23	1991	1.33	1981	7.5	6.3	3.5	1.9	1.37	1.86	2.62	3.28	3.92	4.61	5.36	6.26	7.43	9.27	10.99
May	5.52	5.01	4.48	1984	8	13.21	1974	.95	1988	9.0	7.1	3.5	2.0	.99	1.47	2.28	3.03	3.80	4.64	5.59	6.74	8.27	10.74	13.09
Jun	5.14	4.55	6.28	1992	11	12.90	1992	.94	1988	7.2	6.2	3.4	1.7	1.22	1.70	2.45	3.12	3.79	4.50	5.29	6.23	7.47	9.43	11.27
Jul	4.18	4.04	4.40	1989	2	11.07	1979	.00	1993	7.0	5.6	2.7	1.3	.47	.98	1.68	2.28	2.89	3.54	4.27	5.15	6.32	8.20	9.98
Aug	2.81	2.66	3.75	1964	11	7.22	1986	.13	1976	5.7	4.4	2.1	.9	.40	.64	1.04	1.43	1.84	2.28	2.80	3.43	4.28	5.67	7.00
Sep	3.23	3.04	3.85+	1958	12	7.42	1996	.25	1995	6.2	4.9	2.0	1.0	.58	.86	1.34	1.78	2.23	2.71	3.27	3.94	4.83	6.27	7.64
Oct	3.48	2.89	8.85	1984	7	16.65	1984	.00	2000	5.6	4.3	2.2	1.1	.32	.71	1.29	1.79	2.32	2.88	3.52	4.30	5.34	7.03	8.64
Nov	5.58	5.01	8.51	2001	29	14.24	1986	1.01	1981	8.1	6.9	4.0	1.8	1.43	1.96	2.77	3.49	4.19	4.93	5.76	6.74	8.02	10.03	11.92
Dec	5.88	4.76	5.14	1982	4	18.28	1982	.34	1980	8.2	6.8	4.0	2.2	1.16	1.69	2.56	3.35	4.15	5.01	5.98	7.15	8.70	11.19	13.55
Ann	55.93	55.29	8.85	Oct 1984	7	18.28	Dec 1982	.00+	Oct 2000	90.2	72.9	38.0	19.0	37.52	41.01	45.51	48.96	52.04	55.04	58.15	61.61	65.82	71.97	77.32

+ 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:  
[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: BATESVILLE 2 SW, MS

COOP ID: 220488

Climate Division: MS 2

NWS Call Sign:

Elevation: 220 Feet

Lat: 34° 18N

Lon: 89° 59W

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	.3	.0	#	0	2.0	1998	16	2.0	1998	6	2000	28	#+	2000	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.3	.0	#	0	3.2	1996	2	3.2	1996	3	1996	3	#+	1996	.2	.1	.1	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1987	31	#+	1987	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.0	1985	20	1.0	1985	1	1983	17	#+	1983	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	3.2	Feb 1996	2	3.2	Feb 1996	6	Jan 2000	28	#+	Jan 2000	.4	.3	.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: BATESVILLE 2 SW, MS**

**COOP ID: 220488**

**Climate Division: MS 2**

**NWS Call Sign:**

**Elevation: 220 Feet**

**Lat: 34° 18N**

**Lon: 89° 59W**

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	4/25	4/22	4/19	4/16	4/14	4/12	4/10	4/07	4/03
32	4/16	4/11	4/08	4/05	4/02	3/31	3/28	3/24	3/20
28	4/08	4/01	3/28	3/24	3/20	3/17	3/13	3/08	3/02
24	3/23	3/15	3/09	3/05	2/28	2/24	2/19	2/14	2/06
20	3/11	3/02	2/24	2/18	2/14	2/09	2/03	1/28	1/19
16	3/03	2/20	2/13	2/06	1/30	1/22	1/13	12/27	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	10/06	10/09	10/12	10/15	10/18	10/21	10/24	10/29
32	10/10	10/16	10/20	10/23	10/27	10/30	11/03	11/07	11/13
28	10/24	10/29	11/02	11/06	11/09	11/12	11/15	11/19	11/25
24	11/03	11/10	11/16	11/20	11/25	11/29	12/03	12/09	12/16
20	11/13	11/24	12/01	12/08	12/14	12/21	12/27	1/04	1/15
16	12/02	12/13	12/21	12/28	1/04	1/12	1/21	2/08	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	197	192	188	186	183	180	177	174	169
32	225	219	214	210	207	203	199	195	188
28	257	249	243	238	233	228	223	217	209
24	298	288	281	274	269	263	257	249	239
20	343	327	317	309	301	294	286	276	263
16	>365	>365	>365	>365	340	326	316	306	294

\* 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)

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

**Station: BATESVILLE 2 SW, MS**

**COOP ID: 220488**

**Climate Division: MS 2**

**NWS Call Sign:**

**Elevation: 220 Feet**

**Lat: 34°18N**

**Lon: 89°59W**

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	791	595	402	172	49	1	0	0	16	161	414	686	3287
60	643	460	265	83	15	0	0	0	3	80	282	541	2372
57	555	382	195	46	7	0	0	0	1	47	214	456	1903
55	498	331	155	28	3	0	0	0	0	31	174	401	1621
50	366	219	77	6	0	0	0	0	0	9	95	279	1051
32	63	17	0	0	0	0	0	0	0	0	1	32	113

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	296	346	626	855	1154	1345	1495	1447	1224	925	584	369	10666
55	18	17	68	193	444	655	782	734	534	243	67	24	3779
57	13	11	46	150	385	595	720	672	475	197	46	17	3327
60	8	5	23	97	301	505	627	579	388	137	25	10	2705
65	0	0	5	37	180	356	472	424	251	63	7	0	1795
70	0	0	0	9	90	212	317	274	138	22	0	0	1062

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	132	203	402	624	909	1107	1249	1200	987	679	362	181	132	335	737	1361	2270	3377	4626	5826	6813	7492	7854	8035
45	74	119	273	477	754	957	1094	1045	837	525	243	104	74	193	466	943	1697	2654	3748	4793	5630	6155	6398	6502
50	34	62	169	338	599	807	939	890	687	380	149	53	34	96	265	603	1202	2009	2948	3838	4525	4905	5054	5107
55	13	25	87	215	444	657	784	735	537	247	82	27	13	38	125	340	784	1441	2225	2960	3497	3744	3826	3853
60	0	4	36	118	299	507	629	580	390	141	36	6	0	4	40	158	457	964	1593	2173	2563	2704	2740	2746
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	85	136	254	398	603	761	850	813	655	452	235	112	85	221	475	873	1476	2237	3087	3900	4555	5007	5242	5354

(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)