

# 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: WAYNESBORO 2 W, MS

1971-2000

COOP ID: 229439

Climate Division: MS 9

NWS Call Sign:

Elevation: 200 Feet

Lat: 31°41N

Lon: 88°40W

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	57.6	33.8	45.7	82+	1957	29	55.6	1974	0	1985	21	36.0	1977	608	0	.0	.0	25.0	.3	14.0	@
Feb	62.6	36.1	49.4	87	1996	28	55.4	1990	9+	1970	4	40.0	1978	439	0	.0	.0	25.2	.2	10.0	.0
Mar	70.4	43.1	56.8	90+	1974	29	62.2	1974	14	1980	3	51.4	1996	275	19	.0	.1	30.4	.0	4.7	.0
Apr	77.1	50.2	63.7	92+	1963	11	69.9	1999	26	1987	4	58.9	1997	100	59	.0	.2	30.0	.0	.7	.0
May	83.7	58.2	71.0	98	1956	23	73.6	2000	35	1971	4	67.2	1976	9	194	.0	4.4	31.0	.0	.0	.0
Jun	89.8	65.3	77.6	105+	1954	28	81.8	1998	42	1984	1	74.5	1974	0	376	.2	17.9	30.0	.0	.0	.0
Jul	91.9	68.9	80.4	106+	1980	14	83.8	1980	52+	1967	15	77.7	1992	0	477	1.0	24.0	31.0	.0	.0	.0
Aug	91.7	68.0	79.9	105	1954	30	83.0	1999	51	1968	30	77.1	1973	0	459	.6	24.0	31.0	.0	.0	.0
Sep	86.8	62.5	74.7	102+	1954	4	79.5	1980	32	1967	30	71.0	1975	4	294	.2	13.0	30.0	.0	.0	.0
Oct	78.0	49.5	63.8	98+	1954	4	69.5	1984	24	1963	30	57.3	1987	118	79	.0	1.2	31.0	.0	1.3	.0
Nov	68.1	41.6	54.9	88	1982	1	63.7	1985	14	1969	15	47.4	1976	322	18	.0	.0	29.2	.0	7.5	.0
Dec	60.0	35.6	47.8	83	1998	8	56.2	1971	5+	1962	13	39.6	1989	538	5	.0	.0	26.9	.1	12.6	.0
Ann	76.5	51.1	63.8	106+	Jul 1980	14	83.8	Jul 1980	0	Jan 1985	21	36.0	Jan 1977	2413	1980	2.0	84.8	350.7	.6	50.8	@

+ 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: 1954-2001

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

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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	6.44	5.63	5.81	1999	30	11.80	1999	.96	1981	9.9	7.7	4.0	2.2	1.89	2.50	3.42	4.21	4.99	5.80	6.69	7.74	9.09	11.22	13.20
Feb	4.68	4.36	5.40	1966	10	10.51	1983	1.06	2000	7.5	5.9	3.4	1.7	1.25	1.69	2.37	2.96	3.55	4.16	4.84	5.64	6.70	8.34	9.89
Mar	6.14	5.79	4.51	1979	3	11.59	1980	2.00	1997	8.6	6.9	4.4	2.1	2.24	2.81	3.64	4.34	5.00	5.68	6.42	7.28	8.38	10.07	11.62
Apr	4.64	3.73	5.52	1974	13	12.09	1979	.53	1987	6.5	5.5	3.0	1.7	.90	1.32	2.00	2.63	3.26	3.94	4.72	5.65	6.89	8.88	10.76
May	5.00	4.29	6.80	1993	26	11.04	1991	.64	1998	8.0	6.6	3.4	1.6	1.02	1.48	2.21	2.88	3.56	4.28	5.10	6.08	7.37	9.45	11.42
Jun	4.44	4.16	3.41	1957	23	9.05	1992	.60	1980	9.0	6.9	3.1	1.5	1.17	1.59	2.24	2.80	3.36	3.94	4.59	5.35	6.35	7.92	9.39
Jul	5.21	5.07	3.76	1965	29	8.97	1971	.91	1983	10.3	8.1	4.0	1.8	2.23	2.70	3.36	3.90	4.40	4.91	5.46	6.10	6.89	8.11	9.21
Aug	3.47	3.25	3.14	1969	18	7.00	1992	.66	1994	8.4	6.4	2.5	.8	.94	1.27	1.77	2.21	2.64	3.09	3.59	4.19	4.97	6.18	7.32
Sep	4.45	3.86	6.14	1979	13	11.56	1998	.20	1990	8.0	5.7	2.6	1.3	.66	1.03	1.67	2.29	2.93	3.63	4.45	5.44	6.77	8.95	11.04
Oct	2.97	2.70	7.02	1959	21	9.59	1985	.00+	1987	5.5	4.1	1.9	1.1	.00	.40	.96	1.44	1.91	2.43	3.02	3.71	4.65	6.19	7.66
Nov	5.16	5.22	4.53	1988	5	9.93	1988	.35	1999	8.0	6.4	3.7	1.9	1.16	1.64	2.40	3.08	3.76	4.48	5.29	6.26	7.53	9.56	11.47
Dec	5.41	4.80	4.88	1973	26	14.34	1971	1.78	1980	8.9	6.8	3.4	1.9	1.88	2.39	3.14	3.76	4.36	4.98	5.65	6.44	7.44	8.99	10.42
Ann	58.01	56.80	7.02	Oct 1959	21	14.34	Dec 1971	.00+	Oct 1987	98.6	77.0	39.4	19.6	43.93	46.72	50.26	52.93	55.28	57.54	59.86	62.41	65.48	69.91	73.71

+ 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: 1954-2001

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

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**NWS Call Sign:**

**Elevation: 200 Feet**

**Lat: 31°41N**

**Lon: 88°40W**

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	.1	.0	#	0	1.1	1977	18	1.1	1977	1+	1987	21	#+	1987	.1	.1	.0	.0	.0	.1	.0	.0	.0
Feb	.0	.0	0	0	.1	1973	9	.1	1973	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	#	.0	0	0	#	1973	20	#	1973	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.1	Jan 1977	18	1.1	Jan 1977	1+	Jan 1987	21	#+	Jan 1987	.2	.1	.0	.0	.0	.1	.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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**Lat: 31° 41N**

**Lon: 88° 40W**

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	4/24	4/20	4/16	4/13	4/11	4/08	4/05	4/02	3/28
32	4/11	4/06	4/02	3/30	3/27	3/24	3/21	3/17	3/12
28	3/27	3/21	3/17	3/14	3/10	3/07	3/03	2/27	2/21
24	3/11	3/03	2/26	2/21	2/17	2/13	2/08	2/03	1/26
20	3/03	2/23	2/17	2/12	2/07	2/01	1/27	1/20	1/06
16	2/15	2/05	1/29	1/22	1/15	1/06	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	10/05	10/10	10/13	10/16	10/19	10/22	10/25	10/29	11/03
32	10/11	10/17	10/22	10/25	10/29	11/01	11/05	11/09	11/15
28	10/27	11/03	11/08	11/13	11/17	11/21	11/25	11/30	12/07
24	11/11	11/19	11/24	11/29	12/03	12/07	12/12	12/17	12/25
20	11/21	12/03	12/11	12/18	12/25	1/01	1/09	1/18	2/06
16	12/15	12/26	1/04	1/12	1/21	2/02	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	211	204	199	195	191	187	183	178	171
32	236	229	224	219	215	211	206	201	194
28	279	269	262	256	251	245	239	232	222
24	318	308	300	294	288	282	276	269	259
20	>365	>365	336	325	316	308	301	292	280
16	>365	>365	>365	>365	>365	>365	352	336	322

\* 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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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	608	439	275	100	9	0	0	0	4	118	322	538	2413
60	467	306	160	36	1	0	0	0	0	52	205	395	1622
57	388	231	107	16	0	0	0	0	0	27	149	315	1233
55	340	186	77	8	0	0	0	0	0	16	117	267	1011
50	237	99	27	1	0	0	0	0	0	4	55	168	591
32	27	1	0	0	0	0	0	0	0	0	0	8	36

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	453	486	767	949	1208	1366	1500	1482	1279	984	685	498	11657
55	52	28	131	267	495	676	787	769	589	287	113	44	4238
57	39	16	99	214	433	616	725	707	529	236	85	30	3729
60	25	7	59	145	341	526	632	614	440	167	50	17	3023
65	0	0	19	59	194	376	477	459	294	79	18	5	1980
70	0	0	4	14	80	229	322	304	163	27	4	0	1147

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	267	355	578	730	980	1140	1266	1250	1067	774	491	323	267	622	1200	1930	2910	4050	5316	6566	7633	8407	8898	9221
45	165	235	427	581	825	990	1111	1095	917	619	347	205	165	400	827	1408	2233	3223	4334	5429	6346	6965	7312	7517
50	93	142	289	432	670	840	956	940	767	464	226	119	93	235	524	956	1626	2466	3422	4362	5129	5593	5819	5938
55	47	76	172	295	515	690	801	785	617	319	131	66	47	123	295	590	1105	1795	2596	3381	3998	4317	4448	4514
60	15	33	87	173	360	540	646	630	467	190	65	31	15	48	135	308	668	1208	1854	2484	2951	3141	3206	3237
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	178	241	383	491	662	772	860	844	723	522	328	218	178	419	802	1293	1955	2727	3587	4431	5154	5676	6004	6222

(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.  
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)