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: MEADVILLE, MS **COOP ID: 225704**

Climate Division: MS 7 **NWS Call Sign:** **Elevation: 345 Feet** **Lat: 31˚28N** **Lon: 90˚53W**

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	58.1	34.8	46.5	82	1957	31	54.2	1974	2+	1985	21	37.2	1977	584	0	.0	.0	24.0	.4	13.0	.0
Feb	63.4	37.3	50.4	87	1989	16	56.6	1990	9+	1996	4	40.8	1978	411	2	.0	.0	24.6	.3	9.6	.0
Mar	71.6	44.1	57.9	90	1995	23	62.9	1974	17+	1996	9	51.8	1996	244	22	.0	@	29.8	.0	3.2	.0
Apr	77.5	50.2	63.9	93+	1987	20	69.3	1981	27	1987	4	59.0	1997	99	64	.0	.5	30.0	.0	.6	.0
May	83.8	59.5	71.7	96+	1963	25	75.1	2000	38	1960	13	67.6	1976	10	216	.0	3.9	31.0	.0	.0	.0
Jun	89.8	66.2	78.0	103	1963	14	82.8	1998	43	1984	1	75.3	1983	0	389	.2	16.2	30.0	.0	.0	.0
Jul	91.9	69.4	80.7	107	2000	21	83.2	1980	52	1967	15	78.3	1989	0	485	.4	15.2	31.0	.0	.0	.0
Aug	91.7	68.3	80.0	105	2000	31	82.7	1999	52	1956	23	76.3	1992	0	464	.4	23.0	31.0	.0	.0	.0
Sep	87.8	62.9	75.4	106+	2000	4	79.8	1972	35	1967	29	72.1	1975	2	313	.2	12.4	30.0	.0	.0	.0
Oct	79.3	51.5	65.4	99	1963	16	70.1	1984	28+	1957	28	58.6	1976	81	94	.0	1.6	31.0	.0	.3	.0
Nov	68.7	42.8	55.8	90	1984	1	62.9	1985	19	1959	18	48.1	1976	299	21	.0	@	28.7	.0	4.8	.0
Dec	60.7	36.5	48.6	82+	1956	7	57.0	1984	3	1983	27	39.6	1989	517	8	.0	.0	26.6	.2	11.4	.0
Ann	77.0	52.0	64.5	107	Jul 2000	21	83.2	Jul 1980	2+	Jan 1985	21	37.2	Jan 1977	2247	2078	1.2	72.8	347.7	.9	42.9	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1956-2001

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

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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	6.22	6.13	5.04	1963	19	13.17	1990	1.32	1981
Feb	5.39	5.56	4.43	1997	13	12.30	1987	1.16	2000
Mar	6.23	5.97	4.20	1961	28	12.65	1980	2.36	1978
Apr	5.56	4.89	4.50	1983	6	12.28	1979	1.13	1976
May	5.70	5.81	4.69	1989	19	11.08	1978	.29	1988
Jun	4.69	4.57	4.00	1983	15	12.57	1983	1.21	1998
Jul	4.95	4.56	3.56	1989	3	13.29	1989	.98	1983
Aug	4.39	4.43	4.72	1992	27	7.58	1991	1.60	1989
Sep	4.00	3.70	7.22	1957	27	8.18	1979	.78	1984
Oct	3.86	3.23	8.91	1964	4	19.21	1984	.16	1998
Nov	4.85	4.44	5.25	1961	13	10.40	1986	.11	1999
Dec	5.83	4.95	6.40	1982	4	14.18	1982	1.57	1980
Ann	61.67	59.92	8.91	Oct 1964	4	19.21	Oct 1984	.11	Nov 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.8	4.3	1.7
Feb	8.8	6.7	3.5	1.8
Mar	9.8	7.6	4.1	2.3
Apr	8.0	6.0	3.2	1.8
May	9.5	7.1	3.8	1.9
Jun	10.6	7.3	2.9	1.1
Jul	13.2	8.5	2.6	.7
Aug	9.9	6.5	2.6	.9
Sep	9.0	6.2	2.6	1.0
Oct	6.5	4.6	2.3	1.3
Nov	5.7	4.6	2.5	1.3
Dec	7.9	6.7	4.0	2.0
Ann	109.4	79.6	38.4	17.8

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	1.87	2.46	3.34	4.10	4.84	5.61	6.46	7.46	8.75	10.76	12.63
Feb	1.43	1.94	2.72	3.41	4.08	4.79	5.58	6.51	7.72	9.63	11.42
Mar	2.83	3.38	4.14	4.76	5.33	5.91	6.53	7.24	8.13	9.48	10.70
Apr	1.28	1.80	2.62	3.34	4.07	4.84	5.71	6.74	8.10	10.25	12.28
May	1.30	1.82	2.66	3.41	4.16	4.95	5.85	6.92	8.32	10.55	12.65
Jun	1.36	1.81	2.48	3.06	3.63	4.22	4.87	5.64	6.64	8.19	9.64
Jul	1.59	2.06	2.75	3.34	3.92	4.51	5.15	5.91	6.89	8.41	9.81
Aug	1.90	2.29	2.84	3.29	3.71	4.14	4.60	5.12	5.79	6.79	7.71
Sep	1.17	1.55	2.12	2.62	3.10	3.60	4.16	4.81	5.65	6.97	8.20
Oct	.40	.69	1.22	1.76	2.34	2.99	3.76	4.71	6.02	8.19	10.31
Nov	.96	1.39	2.11	2.76	3.42	4.13	4.93	5.90	7.18	9.24	11.19
Dec	1.95	2.50	3.31	3.99	4.65	5.33	6.08	6.95	8.07	9.80	11.40
Ann	44.99	48.25	52.41	55.56	58.34	61.03	63.80	66.85	70.55	75.89	80.50

\+ 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: 1956-2001
(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	.0	0	0
Feb	.0	.0	#	0
Mar	.0	.0	0	0
Apr	#	.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
Ann	.1	.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	1.7	1987	22	1.7	1987	0	0	0	0	0
Feb	.3	1988	5	.3+	1988	#	1989	8	#	1989
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	#	1987	3	#	1987	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	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1997	15	#	1997	#	1997	15	#	1997
Ann	1.7	Jan 1987	22	1.7	Jan 1987	#+	Dec 1997	15	#+	Dec 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.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	.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	4/19	4/13	4/09	4/06	4/02	3/30	3/27	3/23	3/17
32	4/10	4/03	3/28	3/24	3/20	3/15	3/11	3/06	2/26
28	3/21	3/13	3/08	3/03	2/26	2/22	2/17	2/11	2/03
24	3/12	3/03	2/24	2/18	2/12	2/07	2/01	1/25	1/15
20	2/25	2/14	2/05	1/28	1/19	1/08	0/00	0/00	0/00
16	1/30	1/19	1/08	12/23	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	10/13	10/19	10/23	10/27	10/30	11/02	11/06	11/10	11/16
32	10/28	11/03	11/08	11/11	11/15	11/18	11/22	11/26	12/02
28	11/08	11/15	11/20	11/25	11/29	12/03	12/08	12/13	12/20
24	11/19	11/30	12/09	12/16	12/23	12/29	1/06	1/14	1/26
20	12/08	12/18	12/26	1/02	1/10	1/20	0/00	0/00	0/00
16	12/23	1/05	1/17	2/04	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	236	227	221	215	210	205	199	192	183
32	266	257	250	245	239	234	228	222	212
28	308	297	288	281	275	268	261	253	242
24	>365	331	320	313	306	299	293	285	275
20	>365	>365	>365	>365	>365	356	332	317	301
16	>365	>365	>365	>365	>365	>365	>365	>365	327

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	584	411	244	99	10	0	0	0	2	81	299	517	2247
60	441	284	136	35	1	0	0	0	0	29	187	376	1489
57	362	214	87	15	0	0	0	0	0	13	134	299	1124
55	313	174	61	8	0	0	0	0	0	7	104	253	920
50	212	95	20	1	0	0	0	0	0	1	47	159	535
32	18	1	0	0	0	0	0	0	0	0	0	7	26

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	466	515	800	956	1230	1379	1508	1487	1301	1036	712	521	11911
55	48	44	148	273	517	689	795	774	611	330	127	54	4410
57	35	29	113	221	455	629	733	712	551	274	97	38	3887
60	21	14	69	151	363	539	640	619	461	197	59	22	3155
65	0	2	22	64	216	389	485	464	313	94	21	8	2078
70	0	0	5	17	99	242	330	309	179	32	6	0	1219

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	278	351	578	722	998	1154	1177	1212	1078	795	500	326	278	629	1207	1929	2927	4081	5258	6470	7548	8343	8843	9169
45	174	230	431	572	843	1004	1022	1057	928	641	368	213	174	404	835	1407	2250	3254	4276	5333	6261	6902	7270	7483
50	101	137	293	426	688	854	867	902	778	486	243	125	101	238	531	957	1645	2499	3366	4268	5046	5532	5775	5900
55	49	73	180	289	533	704	712	747	628	338	145	67	49	122	302	591	1124	1828	2540	3287	3915	4253	4398	4465
60	23	32	96	169	379	554	557	592	478	212	75	31	23	55	151	320	699	1253	1810	2402	2880	3092	3167	3198
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	181	236	370	472	673	790	811	815	730	529	323	211	181	417	787	1259	1932	2722	3533	4348	5078	5607	5930	6141

(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