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: MINTER CITY 2 SE, MS **COOP ID: 225897**

Climate Division: MS 4 **NWS Call Sign:** **Elevation: 140 Feet** **Lat: 33˚43N** **Lon: 90˚16W**

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	50.2	32.5	41.4	80	1972	25	48.3	1989	-3	1966	30	29.8	1977	732	0	.0	.0	17.0	2.5	16.6	.0
Feb	56.1	36.6	46.4	81+	1986	27	54.1	1976	7+	1996	3	34.9	1978	524	1	.0	.0	19.6	1.2	10.3	.0
Mar	65.1	43.7	54.4	88	1998	31	60.3	1974	16	1996	9	48.9	1971	340	11	.0	.0	28.1	.1	2.9	.0
Apr	73.5	51.0	62.3	96	1987	28	69.3	1981	29+	1987	4	56.3	1983	140	57	.0	.2	29.8	.0	.3	.0
May	81.3	59.7	70.5	100	1977	31	75.0	1987	41	1960	12	64.2	1976	32	202	@	4.2	31.0	.0	.0	.0
Jun	88.3	67.5	77.9	102+	1963	15	81.5	1981	50+	1956	3	74.3	1974	0	387	.4	15.9	30.0	.0	.0	.0
Jul	91.8	70.9	81.4	107+	1980	17	85.3	1980	54	1967	15	78.8	1972	0	506	1.6	22.8	31.0	.0	.0	.0
Aug	90.9	69.3	80.1	105+	1986	1	83.6	1995	53	1986	29	75.4	1992	0	468	1.1	21.7	31.0	.0	.0	.0
Sep	85.6	62.8	74.2	103	2000	1	79.6	1998	37+	1967	29	68.7	1974	8	285	.3	11.3	30.0	.0	.0	.0
Oct	75.9	51.0	63.5	96	1998	1	69.4	1971	29	1993	31	59.0	1988	121	72	.0	1.0	30.9	.0	.2	.0
Nov	63.6	42.6	53.1	88	1961	1	59.2	1985	17	1959	17	44.8	1976	367	9	.0	.0	27.0	.1	4.9	.0
Dec	53.6	35.1	44.4	83	1982	3	54.1	1984	0	1989	23	34.3	2000	641	2	.0	.0	20.5	1.2	13.5	@
Ann	73.0	51.9	62.5	107+	Jul 1980	17	85.3	Jul 1980	-3	Jan 1966	30	29.8	Jan 1977	2905	2000	3.4	77.1	325.9	5.1	48.7	@

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1955-2001

(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	5.49	5.42	4.10	1973	21	11.95	1974	.49	1986
Feb	4.91	4.75	6.38	1991	19	12.58	1991	1.00	1972
Mar	6.20	5.66	5.32	1973	16	16.50	1980	1.60	1982
Apr	5.63	5.25	5.50	2000	2	17.08	1991	.61	1981
May	5.88	4.94	5.68	1978	1	15.66	1978	.34	1992
Jun	5.05	4.04	3.73	1980	25	15.03	1989	.84	1988
Jul	4.54	3.88	6.72	1994	13	12.97	1994	1.07	1984
Aug	2.56	2.41	2.14	1964	12	5.79	1975	.13	2000
Sep	3.28	3.21	5.50	1958	20	7.16	1996	.06	1984
Oct	3.31	2.96	3.22	1994	22	11.78	1984	.20	2000
Nov	5.80	4.96	5.77	1968	28	18.28	1986	1.45	1971
Dec	6.00	5.02	8.55	1982	26	23.21	1982	.41	1980
Ann	58.65	57.26	8.55	Dec 1982	26	23.21	Dec 1982	.06	Sep 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	7.5	3.8	1.7
Feb	8.8	6.2	3.1	1.7
Mar	11.7	8.2	3.9	2.1
Apr	9.3	6.5	3.8	1.9
May	9.6	7.0	3.5	1.6
Jun	9.4	6.4	3.2	1.6
Jul	8.2	5.7	2.7	1.5
Aug	7.0	4.2	1.7	.8
Sep	7.4	4.5	1.8	1.0
Oct	6.9	4.5	2.3	1.0
Nov	9.3	6.7	3.9	2.0
Dec	9.8	6.9	3.7	2.0
Ann	108.0	74.3	37.4	18.9

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	1.39	1.90	2.70	3.41	4.11	4.84	5.66	6.64	7.91	9.92	11.81
Feb	1.50	1.97	2.66	3.26	3.84	4.44	5.10	5.88	6.89	8.46	9.91
Mar	2.15	2.74	3.59	4.31	4.99	5.70	6.47	7.37	8.52	10.30	11.93
Apr	1.12	1.63	2.45	3.21	3.98	4.80	5.73	6.85	8.33	10.71	12.96
May	1.15	1.68	2.54	3.33	4.14	5.00	5.98	7.16	8.72	11.22	13.60
Jun	1.14	1.61	2.35	3.02	3.68	4.39	5.18	6.13	7.38	9.37	11.24
Jul	.90	1.31	1.98	2.59	3.21	3.87	4.62	5.52	6.72	8.63	10.45
Aug	.30	.50	.86	1.22	1.60	2.02	2.51	3.13	3.96	5.33	6.66
Sep	.59	.87	1.35	1.80	2.26	2.75	3.31	3.99	4.90	6.36	7.76
Oct	.52	.80	1.28	1.73	2.21	2.72	3.32	4.04	5.01	6.59	8.11
Nov	1.79	2.35	3.17	3.87	4.55	5.26	6.03	6.94	8.12	9.95	11.65
Dec	1.21	1.76	2.64	3.44	4.26	5.13	6.12	7.30	8.87	11.38	13.76
Ann	40.49	43.96	48.43	51.84	54.88	57.83	60.88	64.25	68.36	74.34	79.53

\+ 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: 1955-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	.7	.0	#	0
Feb	.2	.0	#	0
Mar	.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	.1	.0	#	0
Dec	.1	.0	#	0
Ann	1.1	.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	3.5	1998	16	3.5	1998	7	2000	28	#+	2000
Feb	2.3	1996	2	2.3	1996	2	1996	5	#+	1996
Mar	.0	0	0	.0	0	#	1993	12	#	1993
Apr	.0	0	0	.0	0	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	1.5	1975	23	1.5	1975	#	1991	9	#	1991
Dec	1.3	1989	9	1.3	1989	1	1989	9	#+	1990
Ann	3.5	Jan 1998	16	3.5	Jan 1998	7	Jan 2000	28	#+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.2	.1	.0	.0
Feb	.1	.1	.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	.1	.1	.0	.0	.0
Dec	.1	.1	.0	.0	.0
Ann	.7	.5	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	@	.0	.0
Feb	.2	.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
Ann	.2	@	.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	4/14	4/09	4/05	4/02	3/30	3/27	3/24	3/21	3/16
32	4/02	3/25	3/20	3/16	3/12	3/08	3/03	2/26	2/19
28	3/15	3/08	3/03	2/27	2/23	2/19	2/14	2/09	2/02
24	3/07	2/27	2/21	2/16	2/11	2/06	2/01	1/26	1/18
20	2/27	2/16	2/09	2/02	1/25	1/18	1/07	0/00	0/00
16	2/15	2/05	1/27	1/19	1/07	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	10/19	10/24	10/28	10/31	11/03	11/06	11/09	11/12	11/17
32	10/26	11/01	11/06	11/10	11/14	11/17	11/21	11/26	12/02
28	11/05	11/12	11/17	11/21	11/25	11/29	12/03	12/08	12/15
24	11/20	11/28	12/03	12/08	12/13	12/17	12/22	12/27	1/04
20	12/07	12/16	12/23	12/29	1/04	1/11	1/20	0/00	0/00
16	12/22	12/30	1/07	1/15	1/28	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	237	230	225	221	217	213	208	203	197
32	279	268	259	253	246	240	233	225	213
28	302	292	286	280	274	269	263	257	247
24	337	325	317	310	304	297	290	282	271
20	>365	>365	>365	>365	348	333	322	311	298
16	>365	>365	>365	>365	>365	>365	>365	355	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	732	524	340	140	32	0	0	0	8	121	367	641	2905
60	586	394	211	63	8	0	0	0	1	52	238	498	2051
57	500	319	150	33	3	0	0	0	0	27	175	414	1621
55	444	272	115	20	1	0	0	0	0	16	139	361	1368
50	317	175	51	4	0	0	0	0	0	3	69	247	866
32	44	10	0	0	0	0	0	0	0	0	0	25	79

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	335	411	694	907	1193	1377	1529	1491	1267	974	633	408	11219
55	22	29	96	237	481	687	816	778	577	277	81	32	4113
57	16	20	69	190	421	627	754	716	517	226	58	22	3636
60	9	11	37	130	333	537	661	623	428	158	31	13	2971
65	0	1	11	57	202	387	506	468	285	72	9	2	2000
70	0	0	1	17	102	241	351	314	161	24	0	0	1211

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	163	254	475	698	979	1165	1305	1269	1050	747	415	219	163	417	892	1590	2569	3734	5039	6308	7358	8105	8520	8739
45	93	155	335	548	824	1015	1150	1114	900	593	287	128	93	248	583	1131	1955	2970	4120	5234	6134	6727	7014	7142
50	46	86	213	404	669	865	995	959	750	442	176	70	46	132	345	749	1418	2283	3278	4237	4987	5429	5605	5675
55	20	38	120	271	514	715	840	804	600	300	98	31	20	58	178	449	963	1678	2518	3322	3922	4222	4320	4351
60	1	11	54	156	362	565	685	649	453	179	44	8	1	12	66	222	584	1149	1834	2483	2936	3115	3159	3167
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	93	146	278	436	657	805	894	865	706	482	249	126	93	239	517	953	1610	2415	3309	4174	4880	5362	5611	5737

(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

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