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: HICKORY FLAT, MS **COOP ID: 224001**

Climate Division: MS 2 **NWS Call Sign:** **Elevation: 400 Feet** **Lat: 34˚37N** **Lon: 89˚11W**

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	48.6	27.4	38.0	80	1972	24	45.2	1990	-15	1966	30	26.7	1977	837	0	.0	.0	17.3	2.1	18.6	.2
Feb	54.1	30.5	42.3	82+	1962	13	50.6	2000	-1	1971	9	31.2	1978	636	0	.0	.0	20.2	.8	13.9	.1
Mar	63.1	38.7	50.9	88	1963	31	57.5	1974	8	1980	3	45.0	1996	441	4	.0	.0	28.7	.1	8.0	.0
Apr	71.9	47.0	59.5	93	1987	21	64.8	1981	22	1987	4	53.6	1983	190	24	.0	.2	29.8	.0	2.3	.0
May	79.2	56.6	67.9	95+	1964	27	73.1	2000	32	1976	4	62.5	1976	53	143	.0	1.7	31.0	.0	@	.0
Jun	86.2	64.4	75.3	101	1969	30	79.9	1998	43+	1966	1	70.7	1974	1	311	.1	12.2	30.0	.0	.0	.0
Jul	90.0	68.4	79.2	108	1980	17	83.0	1980	51+	1961	4	76.9	1990	0	442	1.0	21.5	31.0	.0	.0	.0
Aug	89.8	66.7	78.3	106	2000	29	81.8	1995	49	1967	28	74.4	1992	0	411	1.5	20.1	31.0	.0	.0	.0
Sep	83.9	59.8	71.9	103	1980	14	77.0	1998	34	1967	29	67.5	1974	21	227	.5	8.8	30.0	.0	.0	.0
Oct	74.0	47.1	60.6	94	1963	12	66.3	1984	25+	1957	28	54.8	1976	188	50	.0	.4	30.9	.0	2.1	.0
Nov	61.6	37.9	49.8	86	2000	1	56.5	1985	12+	1959	18	40.9	1976	460	3	.0	.0	26.9	@	9.2	.0
Dec	52.3	31.3	41.8	78+	1956	3	51.5	1984	-11	1963	24	32.2	1989	721	0	.0	.0	20.9	.9	15.7	.1
Ann	71.2	48.0	59.6	108	Jul 1980	17	83.0	Jul 1980	-15	Jan 1966	30	26.7	Jan 1977	3548	1615	3.1	64.9	327.7	3.9	69.8	.4

\+ 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: 1948-2001

(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	5.28	5.02	3.45	1952	27	12.42	1974	.36	1986
Feb	4.63	3.94	4.75	1991	19	11.51	1991	.96	1978
Mar	6.07	5.56	6.00	1973	15	16.29	1973	2.55	1985
Apr	5.46	5.03	4.85	1970	2	13.29	1991	1.20	1976
May	5.52	4.40	5.70	1983	19	12.82	1991	1.42	1992
Jun	4.70	3.40	4.15	1994	27	15.35	1989	.80	1988
Jul	4.56	4.43	6.01	1967	10	10.08	1979	.47	1990
Aug	3.63	3.42	4.25	1977	16	7.77	1993	.16	1999
Sep	3.88	3.50	5.60	1979	14	9.54	1996	.50	2000
Oct	3.37	3.35	4.40	1959	8	9.01	1988	.01	2000
Nov	5.61	4.76	7.03	1968	28	11.98	1972	1.54	1971
Dec	6.13	5.29	8.95	1991	1	17.51	1991	.65	1980
Ann	58.84	55.31	8.95	Dec 1991	1	17.51	Dec 1991	.01	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	7.9	3.4	1.7
Feb	8.9	6.4	3.1	1.5
Mar	10.8	8.0	4.1	1.9
Apr	9.3	7.1	3.7	1.8
May	10.3	8.3	3.6	1.5
Jun	9.1	6.4	3.0	1.4
Jul	9.0	6.7	3.0	1.5
Aug	7.5	5.5	2.5	.9
Sep	7.7	5.3	2.5	1.0
Oct	6.6	4.7	2.5	1.0
Nov	9.6	6.6	3.2	1.8
Dec	10.3	7.6	3.9	2.2
Ann	109.8	80.5	38.5	18.2

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	1.23	1.72	2.49	3.18	3.87	4.60	5.42	6.40	7.68	9.72	11.63
Feb	1.31	1.75	2.42	3.00	3.56	4.15	4.80	5.57	6.57	8.14	9.59
Mar	2.27	2.84	3.65	4.33	4.97	5.63	6.35	7.18	8.23	9.86	11.34
Apr	1.69	2.21	2.98	3.65	4.29	4.95	5.68	6.53	7.64	9.36	10.95
May	1.60	2.13	2.92	3.60	4.27	4.96	5.73	6.64	7.81	9.65	11.36
Jun	1.08	1.51	2.20	2.82	3.44	4.09	4.83	5.70	6.85	8.68	10.41
Jul	.99	1.41	2.08	2.69	3.29	3.94	4.67	5.54	6.68	8.51	10.24
Aug	.65	.97	1.50	1.99	2.50	3.04	3.67	4.42	5.43	7.05	8.60
Sep	.63	.97	1.53	2.07	2.62	3.21	3.90	4.74	5.85	7.66	9.40
Oct	.43	.70	1.18	1.65	2.15	2.70	3.33	4.12	5.18	6.92	8.61
Nov	1.46	1.99	2.81	3.52	4.23	4.97	5.79	6.77	8.04	10.05	11.93
Dec	1.44	2.02	2.91	3.71	4.51	5.36	6.30	7.43	8.91	11.26	13.46
Ann	41.47	44.82	49.12	52.38	55.29	58.10	61.01	64.22	68.12	73.79	78.69

\+ 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

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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	2.0	.5	#	#
Feb	1.2	.0	#	#
Mar	.1	.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
Dec	.3	#	#	0
Ann	3.6	.5	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	9.0	1988	7	10.0	1988	9	1998	16	2	1988
Feb	4.0	1971	8	7.0	1985	5	1985	3	1	1985
Mar	1.5	1984	10	1.5	1984	2	1984	10	#+	1999
Apr	.5	1987	3	.5	1987	#	1987	3	#	1987
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	.5	1991	8	.5	1991	1	1991	8	#+	1995
Dec	3.0	1985	20	3.0	1985	3	1989	9	#+	2000
Ann	9.0	Jan 1988	7	10.0	Jan 1988	9	Jan 1998	16	2	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.8	.6	.2	.1	.0
Feb	.7	.4	.3	.0	.0
Mar	.1	.1	.0	.0	.0
Apr	@	.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
Dec	.3	.2	.1	.0	.0
Ann	1.9	1.3	.6	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.9	.6	.3	.0
Feb	1.2	.4	.1	.0
Mar	.1	.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
Dec	.4	.1	.0	.0
Ann	3.6	1.1	.4	.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	4/29	4/25	4/22	4/20	4/17	4/15	4/12	4/09	4/05
32	4/25	4/20	4/16	4/14	4/11	4/08	4/05	4/02	3/28
28	4/11	4/06	4/03	3/31	3/29	3/26	3/24	3/20	3/16
24	3/30	3/23	3/17	3/13	3/09	3/05	2/28	2/23	2/16
20	3/13	3/06	3/01	2/24	2/20	2/16	2/12	2/07	1/31
16	3/04	2/24	2/17	2/12	2/07	2/01	1/27	1/20	1/09

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	9/29	10/04	10/07	10/09	10/12	10/14	10/17	10/20	10/24
32	10/05	10/11	10/15	10/19	10/22	10/26	10/29	11/02	11/08
28	10/23	10/27	10/31	11/03	11/06	11/08	11/11	11/15	11/19
24	11/05	11/10	11/14	11/17	11/19	11/22	11/25	11/29	12/04
20	11/09	11/18	11/25	11/30	12/05	12/10	12/16	12/22	12/31
16	11/28	12/07	12/14	12/20	12/25	12/30	1/05	1/13	1/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	192	187	183	180	177	174	171	167	162
32	212	206	201	197	194	190	186	182	176
28	240	233	229	225	221	217	213	208	202
24	280	271	265	260	255	250	244	238	230
20	322	310	301	294	287	280	273	264	252
16	>365	347	334	325	317	310	303	295	284

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	837	636	441	190	53	1	0	0	21	188	460	721	3548
60	689	500	301	93	15	0	0	0	5	97	322	573	2595
57	600	422	227	52	6	0	0	0	1	60	247	485	2100
55	543	371	185	33	3	0	0	0	0	41	203	428	1807
50	406	255	100	7	0	0	0	0	0	12	114	299	1193
32	82	26	1	0	0	0	0	0	0	0	2	36	147

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	268	313	587	824	1113	1300	1465	1434	1195	885	535	338	10257
55	15	15	58	167	403	610	752	721	506	213	46	18	3524
57	11	10	38	126	344	550	690	659	447	170	30	12	3087
60	7	3	19	77	260	460	597	566	360	115	15	7	2486
65	0	0	4	24	143	311	442	411	227	50	3	0	1615
70	0	0	0	4	62	172	287	260	120	16	0	0	921

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	146	225	434	638	915	1103	1250	1220	1000	689	377	195	146	371	805	1443	2358	3461	4711	5931	6931	7620	7997	8192
45	79	136	298	489	760	953	1095	1065	850	534	253	113	79	215	513	1002	1762	2715	3810	4875	5725	6259	6512	6625
50	40	69	187	354	605	803	940	910	700	388	157	59	40	109	296	650	1255	2058	2998	3908	4608	4996	5153	5212
55	16	28	103	224	450	653	785	755	550	253	81	26	16	44	147	371	821	1474	2259	3014	3564	3817	3898	3924
60	0	7	43	122	301	503	630	600	404	147	35	7	0	7	50	172	473	976	1606	2206	2610	2757	2792	2799
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	92	151	280	422	611	756	854	824	674	461	238	118	92	243	523	945	1556	2312	3166	3990	4664	5125	5363	5481

(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