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: HERNANDO 5 S, MS **COOP ID: 223975**

Climate Division: MS 2 **NWS Call Sign:** **Elevation: 380 Feet** **Lat: 34˚45N** **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	47.9	27.8	37.9	79+	1952	1	45.2	1990	-6+	1985	20	26.9	1977	842	0	.0	.0	15.6	3.0	17.3	.2
Feb	53.4	31.7	42.6	80+	1932	10	51.2	1976	-5	1951	2	31.2	1978	629	0	.0	.0	19.1	1.1	11.7	.0
Mar	62.7	40.7	51.7	85+	1935	23	57.2	1974	10	1943	3	46.4	1971	416	4	.0	.0	28.0	.1	5.2	.0
Apr	71.8	49.8	60.8	92	1987	21	67.1	1981	28+	1940	13	55.7	1983	162	35	.0	.2	29.7	.0	.6	.0
May	79.2	58.7	69.0	98	1977	30	73.5	1987	38+	1954	4	63.9	1976	38	161	.0	.9	31.0	.0	.0	.0
Jun	86.5	66.5	76.5	104+	1931	28	80.4	1998	49+	1969	3	72.9	1974	0	346	.0	11.3	30.0	.0	.0	.0
Jul	90.3	70.4	80.4	110	1934	23	85.0	1980	54+	1972	6	77.8	1989	0	476	.8	19.9	31.0	.0	.0	.0
Aug	89.4	68.5	79.0	105	1930	9	83.4	1983	49	1946	31	73.9	1992	0	432	.6	17.4	31.0	.0	.0	.0
Sep	83.3	61.2	72.3	103+	1951	1	77.5	1998	38+	1942	27	67.2	1974	17	234	.1	6.5	30.0	.0	.0	.0
Oct	73.7	49.8	61.8	97	1953	1	67.6	1971	24	1948	30	55.9	1976	157	56	.0	.5	30.9	.0	.5	.0
Nov	60.7	39.3	50.0	85+	1945	2	56.2	1985	7	1950	25	41.5	1976	454	5	.0	.0	25.6	@	5.7	.0
Dec	51.4	31.7	41.6	81	1982	2	51.0	1984	-5+	1989	22	31.1	2000	727	0	.0	.0	19.0	1.6	13.7	.1
Ann	70.9	49.7	60.3	110	Jul 1934	23	85.0	Jul 1980	-6+	Jan 1985	20	26.9	Jan 1977	3442	1749	1.5	56.7	320.9	5.8	54.7	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

(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	4.55	4.58	8.20	1935	20	9.60	1989	.39	1986
Feb	4.29	3.84	4.80	1966	10	10.01	1990	1.15	1972
Mar	5.58	4.80	3.73	1992	10	12.45	1980	1.84	1986
Apr	6.02	6.09	6.00	1942	9	18.02	1991	2.14	1989
May	5.51	5.04	4.06	1979	4	11.78	1979	1.62	1977
Jun	4.93	4.69	6.50	1947	23	9.62	1997	.73	1988
Jul	3.68	3.59	4.06	1988	11	10.57	1988	.77	1991
Aug	3.15	3.03	3.70+	1959	20	10.03	1984	.13	1976
Sep	3.29	2.65	3.73	1957	22	8.90	1993	.31	1995
Oct	3.34	3.00	5.82	1935	23	11.67	1984	.00	2000
Nov	5.11	5.69	4.80	1934	21	9.19	1987	1.46	1995
Dec	5.61	4.75	4.60	1978	3	13.67	1982	.75	1980
Ann	55.06	56.24	8.20	Jan 1935	20	18.02	Apr 1991	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.2	7.3	3.2	1.3
Feb	8.9	5.9	3.1	1.4
Mar	10.8	7.8	3.8	1.7
Apr	9.5	7.3	4.0	2.1
May	10.4	7.5	3.6	1.9
Jun	8.9	6.3	3.3	1.7
Jul	8.1	5.4	2.8	1.0
Aug	6.6	4.2	2.0	1.0
Sep	7.9	4.8	2.2	1.0
Oct	6.6	4.3	2.2	1.2
Nov	9.3	6.2	3.3	1.9
Dec	10.4	7.4	3.6	1.8
Ann	107.6	74.4	37.1	18.0

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	1.28	1.71	2.36	2.93	3.49	4.07	4.72	5.48	6.47	8.02	9.47
Feb	1.20	1.60	2.22	2.76	3.29	3.84	4.45	5.17	6.11	7.58	8.95
Mar	2.17	2.69	3.42	4.03	4.61	5.20	5.84	6.58	7.51	8.95	10.27
Apr	2.02	2.59	3.42	4.13	4.81	5.51	6.28	7.18	8.33	10.11	11.76
May	1.76	2.29	3.06	3.72	4.36	5.01	5.74	6.58	7.67	9.36	10.93
Jun	1.32	1.79	2.50	3.12	3.74	4.38	5.09	5.94	7.05	8.77	10.39
Jul	.86	1.20	1.74	2.22	2.70	3.21	3.78	4.45	5.35	6.76	8.09
Aug	.31	.53	.96	1.40	1.88	2.41	3.05	3.84	4.93	6.74	8.52
Sep	.57	.86	1.34	1.79	2.25	2.75	3.32	4.01	4.93	6.41	7.83
Oct	.28	.65	1.19	1.68	2.18	2.73	3.36	4.12	5.15	6.81	8.40
Nov	1.30	1.78	2.53	3.18	3.83	4.51	5.27	6.18	7.35	9.22	10.96
Dec	1.39	1.92	2.74	3.46	4.18	4.94	5.78	6.79	8.10	10.18	12.13
Ann	40.45	43.31	46.96	49.72	52.15	54.50	56.93	59.59	62.82	67.48	71.49

\+ 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: 1930-2001
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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	1.9	.5	#	0
Feb	.9	.0	#	0
Mar	.2	.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
Nov	.1	.0	#	0
Dec	.1	.0	#	0
Ann	3.2	.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	10.0	1988	7	11.1	1988	10	1988	7	2	1988
Feb	2.5	1971	8	8.0	1985	7	1988	11	1	1988
Mar	1.9	1984	10	1.9	1984	3	1984	10	#+	1989
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	#	1989	19	#	1989	0	0	0	0	0
Nov	2.0	1991	8	2.0	1991	#+	1995	15	#+	1995
Dec	.9	1998	24	1.8	1989	1+	2000	16	#+	2000
Ann	10.0	Jan 1988	7	11.1	Jan 1988	10	Jan 1988	7	2	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.9	.5	.2	@	@
Feb	.4	.4	.0	.0	.0
Mar	.2	.1	.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	.3	.0	.0	.0	.0
Ann	1.9	1.1	.2	@	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.1	.3	.2	@
Feb	.7	.1	.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	.2	.0	.0	.0
Ann	2.0	.4	.2	@

+ 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	4/15	4/12	4/09	4/07	4/04	4/02	3/30	3/25
32	4/12	4/07	4/04	3/31	3/28	3/25	3/22	3/19	3/13
28	3/28	3/22	3/18	3/14	3/11	3/08	3/04	2/28	2/22
24	3/15	3/07	3/02	2/26	2/22	2/17	2/13	2/08	2/01
20	3/09	3/01	2/23	2/18	2/14	2/09	2/04	1/29	1/21
16	2/26	2/17	2/11	2/05	1/30	1/24	1/17	1/06	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	10/12	10/17	10/21	10/24	10/27	10/30	11/02	11/06	11/11
32	10/22	10/27	10/30	11/02	11/04	11/07	11/09	11/12	11/17
28	10/31	11/06	11/11	11/15	11/18	11/22	11/26	12/01	12/07
24	11/10	11/17	11/22	11/27	12/01	12/05	12/10	12/15	12/23
20	11/20	11/29	12/05	12/11	12/16	12/21	12/26	1/02	1/10
16	12/05	12/14	12/20	12/26	12/31	1/06	1/13	1/23	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	223	216	211	206	202	198	194	189	182
32	240	233	228	224	220	216	212	207	200
28	276	267	261	256	252	247	242	236	227
24	313	302	294	288	282	276	269	262	251
20	338	322	313	307	301	295	288	281	271
16	>365	>365	>365	353	337	327	317	307	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

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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	842	629	416	162	38	0	0	0	17	157	454	727	3442
60	687	494	277	74	9	0	0	0	3	75	319	579	2517
57	604	416	205	40	3	0	0	0	0	43	247	493	2051
55	545	365	164	24	1	0	0	0	0	28	205	437	1769
50	407	250	83	5	0	0	0	0	0	7	118	308	1178
32	79	25	1	0	0	0	0	0	0	0	3	40	148

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	259	321	611	863	1146	1336	1499	1455	1207	922	545	336	10500
55	13	16	61	197	434	646	786	742	517	237	56	20	3725
57	9	11	41	153	374	586	724	680	458	191	38	14	3279
60	0	5	20	98	287	496	631	587	370	129	20	7	2650
65	0	0	4	35	161	346	476	432	234	56	5	0	1749
70	0	0	0	8	71	202	321	281	124	17	0	0	1024

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	143	232	446	668	937	1129	1280	1235	1010	722	381	193	143	375	821	1489	2426	3555	4835	6070	7080	7802	8183	8376
45	74	140	313	519	782	979	1125	1080	860	567	262	108	74	214	527	1046	1828	2807	3932	5012	5872	6439	6701	6809
50	37	73	197	376	627	829	970	925	710	418	162	56	37	110	307	683	1310	2139	3109	4034	4744	5162	5324	5380
55	14	31	109	249	472	679	815	770	561	277	88	25	14	45	154	403	875	1554	2369	3139	3700	3977	4065	4090
60	0	6	51	140	325	529	660	615	413	161	41	3	0	6	57	197	522	1051	1711	2326	2739	2900	2941	2944
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	81	132	265	416	627	789	893	859	683	459	220	101	81	213	478	894	1521	2310	3203	4062	4745	5204	5424	5525

(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