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: PELAHATCHIE, MS **COOP ID: 226811**

Climate Division: MS 5 **NWS Call Sign:** **Elevation: 370 Feet** **Lat: 32˚19N** **Lon: 89˚47W**

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	57.5	35.3	46.4	81	1957	9	54.5	1974	-3	1962	12	35.7	1977	587	0	.0	.0	24.4	.4	14.3	.1
Feb	62.8	37.9	50.4	84+	1957	8	56.4	1990	-2	1960	14	40.8	1978	412	1	.0	.0	25.2	.3	10.3	.0
Mar	69.8	45.1	57.5	90	1974	29	63.4	1974	13	1980	3	52.4	1971	256	21	.0	@	30.2	@	4.5	.0
Apr	76.1	51.0	63.6	91+	1955	22	70.0	1999	27+	1987	4	59.1	1983	102	58	.0	.0	30.0	.0	.7	.0
May	82.3	59.4	70.9	98	1977	30	75.1	2000	36	1960	3	65.9	1976	16	199	.0	3.1	31.0	.0	.0	.0
Jun	88.1	66.1	77.1	103	1963	14	81.4	1998	45+	1956	3	73.8	1974	0	363	.1	17.3	30.0	.0	.0	.0
Jul	90.8	69.8	80.3	104+	1980	14	82.7	2000	51	1972	7	78.0	1971	0	475	.9	26.4	31.0	.0	.0	.0
Aug	90.6	68.6	79.6	105	1999	19	84.7	1999	50	1956	22	76.2	1992	0	453	1.3	24.5	31.0	.0	.0	.0
Sep	86.3	63.3	74.8	103+	1980	10	79.6	1980	35	1967	29	70.6	1975	5	299	.3	13.8	30.0	.0	.0	.0
Oct	77.8	50.8	64.3	98+	1963	3	70.4	1984	24	1963	30	58.1	1976	105	83	.0	1.5	31.0	.0	.8	.0
Nov	67.5	42.9	55.2	87+	1955	13	61.9	1986	15	1976	30	46.9	1976	310	16	.0	.0	29.1	.0	6.8	.0
Dec	60.0	37.5	48.8	83+	1978	3	58.8	1984	4	1962	13	40.0	1989	512	8	.0	.0	27.7	.2	10.6	.0
Ann	75.8	52.3	64.1	105	Aug 1999	19	84.7	Aug 1999	-3	Jan 1962	12	35.7	Jan 1977	2305	1976	2.6	86.6	350.6	.9	48.0	.1

\+ 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: 1948-2000

(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	6.33	5.90	7.40	1950	6	13.57	1979	.90	1986
Feb	5.23	5.09	4.56	1950	14	10.18	1987	1.15	2000
Mar	6.53	5.91	4.25	1983	5	15.23	1980	2.82	1974
Apr	5.77	4.86	5.40	1980	12	12.35	1991	.73	1976
May	5.30	5.62	3.45	1970	2	11.65	1991	.51	1996
Jun	4.08	3.90	3.00	1958	17	7.61	1994	.57	1984
Jul	4.97	4.61	4.10	1950	7	11.71	1972	.34	1983
Aug	3.76	3.41	6.96	1992	26	11.82	1996	.61	1976
Sep	3.70	3.42	4.55	1955	28	6.98	1989	.52	1982
Oct	3.57	3.05	4.80	1964	5	9.52	1985	.36	1998
Nov	5.25	4.95	4.45	1948	28	10.45	2000	1.02	1985
Dec	6.17	5.71	5.60	1982	4	13.33	1982	.92	1980
Ann	60.66	62.22	7.40	Jan 1950	6	15.23	Mar 1980	.34	Jul 1983

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.6	9.0	4.3	1.8
Feb	8.8	6.7	3.6	1.9
Mar	10.1	8.1	4.3	2.4
Apr	8.3	6.4	3.6	2.0
May	10.0	7.6	3.5	1.7
Jun	9.3	6.9	2.6	1.1
Jul	11.5	7.9	2.6	1.2
Aug	8.9	6.0	2.1	.8
Sep	7.9	6.0	2.2	.9
Oct	6.4	4.6	2.3	1.3
Nov	9.3	6.7	3.6	1.7
Dec	10.4	8.3	3.6	1.9
Ann	112.5	84.2	38.3	18.7

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	1.53	2.13	3.05	3.87	4.69	5.55	6.51	7.66	9.16	11.54	13.78
Feb	1.64	2.14	2.87	3.50	4.12	4.75	5.44	6.26	7.31	8.95	10.46
Mar	2.83	3.42	4.24	4.91	5.54	6.17	6.85	7.63	8.61	10.11	11.46
Apr	1.27	1.80	2.64	3.41	4.17	4.99	5.90	7.00	8.44	10.75	12.92
May	1.00	1.47	2.25	2.96	3.69	4.48	5.37	6.45	7.88	10.19	12.38
Jun	1.41	1.79	2.36	2.83	3.28	3.75	4.26	4.85	5.62	6.79	7.88
Jul	1.61	2.08	2.77	3.37	3.94	4.53	5.18	5.93	6.91	8.42	9.82
Aug	.72	1.06	1.61	2.12	2.64	3.19	3.82	4.58	5.59	7.20	8.74
Sep	1.02	1.37	1.91	2.37	2.83	3.31	3.83	4.46	5.27	6.55	7.74
Oct	.43	.71	1.21	1.71	2.24	2.83	3.52	4.37	5.52	7.42	9.26
Nov	1.59	2.09	2.84	3.48	4.10	4.75	5.46	6.29	7.37	9.06	10.62
Dec	2.03	2.61	3.47	4.20	4.91	5.63	6.43	7.36	8.55	10.41	12.12
Ann	44.60	47.75	51.76	54.79	57.47	60.05	62.71	65.64	69.19	74.31	78.72

\+ 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

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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	#	.0	0	0
Feb	.0	.0	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	.0	.0	0	0
Dec	.0	.0	0	0
Ann	#	.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	#	1971	8	#	1971	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	#	1975	4	#	1975	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	#+	Mar 1975	4	#+	Mar 1975	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9	-9.9

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

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/21	4/17	4/14	4/11	4/09	4/06	4/03	3/31	3/27
32	4/13	4/08	4/04	4/01	3/29	3/26	3/23	3/19	3/14
28	3/24	3/18	3/14	3/10	3/07	3/04	2/28	2/24	2/18
24	3/13	3/06	3/01	2/25	2/21	2/17	2/13	2/07	1/30
20	3/10	3/01	2/23	2/18	2/12	2/07	2/01	1/25	1/11
16	2/21	2/10	2/02	1/24	1/15	12/29	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	10/06	10/10	10/13	10/16	10/19	10/21	10/24	10/27	10/31
32	10/17	10/23	10/27	10/30	11/03	11/06	11/09	11/13	11/19
28	11/03	11/08	11/12	11/15	11/18	11/21	11/24	11/27	12/02
24	11/06	11/18	11/26	12/03	12/10	12/16	12/24	1/02	1/15
20	11/22	12/05	12/14	12/22	12/30	1/08	1/17	1/30	0/00
16	12/10	12/24	1/04	1/15	1/29	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	206	202	198	195	192	190	187	183	178
32	238	231	226	222	218	214	210	205	198
28	275	268	263	259	255	251	247	241	234
24	337	318	307	299	291	284	277	268	256
20	>365	>365	341	324	314	307	299	291	280
16	>365	>365	>365	>365	>365	>365	352	327	308

***** 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	587	412	256	102	16	0	0	0	5	105	310	512	2305
60	446	283	146	36	2	0	0	0	0	43	193	370	1519
57	368	213	96	15	0	0	0	0	0	21	138	294	1145
55	320	172	68	8	0	0	0	0	0	12	106	248	934
50	220	91	23	1	0	0	0	0	0	2	47	156	540
32	22	1	0	0	0	0	0	0	0	0	0	7	30

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	469	514	788	946	1205	1353	1498	1476	1284	1001	695	527	11756
55	55	40	143	264	492	663	785	763	594	300	112	55	4266
57	40	25	109	212	430	603	723	701	534	247	83	38	3745
60	25	12	66	142	340	513	630	608	444	176	48	22	3026
65	0	1	21	58	199	363	475	453	299	83	16	8	1976
70	0	0	5	14	91	216	320	299	171	29	3	0	1148

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	245	337	564	735	989	1148	1276	1259	1079	783	492	323	245	582	1146	1881	2870	4018	5294	6553	7632	8415	8907	9230
45	142	220	419	585	834	998	1121	1104	929	629	351	202	142	362	781	1366	2200	3198	4319	5423	6352	6981	7332	7534
50	79	129	283	438	679	848	966	949	779	474	232	115	79	208	491	929	1608	2456	3422	4371	5150	5624	5856	5971
55	42	62	171	296	524	698	811	794	629	329	141	61	42	104	275	571	1095	1793	2604	3398	4027	4356	4497	4558
60	13	24	89	169	370	548	656	639	479	200	69	30	13	37	126	295	665	1213	1869	2508	2987	3187	3256	3286
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	163	228	372	490	672	787	867	850	727	529	327	211	163	391	763	1253	1925	2712	3579	4429	5156	5685	6012	6223

(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