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: PONTOTOC EXP STN, MS **COOP ID: 227111**

Climate Division: MS 3 **NWS Call Sign:** **Elevation: 405 Feet** **Lat: 34˚09N** **Lon: 89˚00W**

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	49.8	30.8	40.3	79	1972	25	47.3	1974	-6+	1966	30	29.1	1977	767	0	.0	.0	16.0	2.5	19.1	.3
Feb	55.0	34.1	44.6	84	1996	24	51.2	1990	2	1981	12	33.9	1978	572	0	.0	.0	18.6	1.3	13.6	.0
Mar	63.9	41.9	52.9	88	1963	31	58.4	1974	12	1980	3	47.1	1980	384	8	.0	.0	27.7	.1	6.8	.0
Apr	72.3	49.4	60.9	93	1987	22	67.4	1981	24+	1987	4	55.9	1983	163	39	.0	.1	29.6	.0	1.3	.0
May	80.1	59.0	69.6	96	1977	31	74.0	1987	36	1976	4	64.0	1976	36	176	.0	1.4	31.0	.0	.0	.0
Jun	87.0	66.8	76.9	102	1954	28	80.1	1981	44	1966	1	72.4	1974	0	357	.1	10.8	30.0	.0	.0	.0
Jul	90.6	70.7	80.7	105	1986	31	85.0	1980	51	1960	18	78.4	1994	0	485	.6	19.3	31.0	.0	.0	.0
Aug	90.2	69.1	79.7	104+	1954	8	83.5	1980	48	1986	29	76.1	1992	0	455	.5	18.4	31.0	.0	.0	.0
Sep	84.5	62.8	73.7	102+	1954	4	78.5	1980	35	1967	29	68.5	1974	11	270	.1	7.7	30.0	.0	.0	.0
Oct	74.5	50.8	62.7	94+	1954	5	68.6	1971	26+	1957	28	57.5	1976	139	67	.0	.3	30.9	.0	.7	.0
Nov	62.9	42.3	52.6	85	1984	1	58.8	1985	12	1970	24	44.0	1976	382	10	.0	.0	26.4	.1	7.0	.0
Dec	53.2	34.3	43.8	79+	1964	24	53.4	1984	-7	1989	23	33.8	1989	660	1	.0	.0	19.5	1.4	16.0	.2
Ann	72.0	51.0	61.5	105	Jul 1986	31	85.0	Jul 1980	-7	Dec 1989	23	29.1	Jan 1977	3114	1868	1.3	58.0	321.7	5.4	64.5	.5

\+ 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: 1953-2001

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

Issue Date: February 2004

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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	5.33	4.38	4.58	1999	23	14.67	1974	.54	1986
Feb	4.80	4.08	6.08	1991	19	10.00	1991	1.27	1978
Mar	6.19	5.10	9.45	1955	21	16.12	1980	2.10	1982
Apr	5.60	4.62	4.67	1979	12	15.73	1991	1.11	1986
May	5.34	4.47	4.89	1997	3	17.37	1991	1.30	1992
Jun	4.99	4.08	3.94	1959	9	10.81	1997	.16	1988
Jul	4.54	4.00	4.47	1953	21	9.91	1998	.93	1986
Aug	3.21	2.60	5.18	1995	5	8.64	1995	.33	1990
Sep	4.08	3.06	4.40	1958	20	8.91	1980	.16	1999
Oct	3.37	3.15	4.88	1970	12	10.71	1984	.25	1978
Nov	4.86	4.18	3.83	2000	9	10.85	1986	2.07	1999
Dec	6.15	4.61	6.25	1982	26	18.01	1982	.93	1980
Ann	58.46	57.13	9.45	Mar 1955	21	18.01	Dec 1982	.16+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	7.4	3.8	1.6
Feb	9.1	6.7	3.4	1.7
Mar	10.6	8.0	3.9	2.0
Apr	9.0	6.6	3.7	1.8
May	10.2	7.7	3.3	1.5
Jun	9.3	7.1	3.5	1.5
Jul	9.1	6.7	3.1	1.5
Aug	7.2	4.8	2.1	.9
Sep	7.5	5.4	2.7	1.3
Oct	7.2	4.8	2.2	1.1
Nov	9.8	6.8	3.6	1.7
Dec	10.4	7.8	3.9	2.0
Ann	110.0	79.8	39.2	18.6

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	1.33	1.84	2.61	3.30	3.98	4.70	5.50	6.45	7.69	9.65	11.49
Feb	1.64	2.10	2.76	3.32	3.86	4.41	5.01	5.72	6.62	8.02	9.31
Mar	2.16	2.74	3.59	4.31	4.99	5.70	6.47	7.36	8.51	10.28	11.91
Apr	1.22	1.73	2.55	3.30	4.04	4.83	5.73	6.80	8.21	10.46	12.58
May	1.06	1.55	2.33	3.05	3.78	4.56	5.44	6.50	7.91	10.17	12.31
Jun	1.08	1.54	2.27	2.93	3.60	4.31	5.11	6.06	7.32	9.33	11.23
Jul	1.13	1.56	2.22	2.81	3.39	4.00	4.68	5.49	6.55	8.23	9.80
Aug	.57	.85	1.32	1.76	2.21	2.69	3.24	3.91	4.80	6.23	7.60
Sep	.62	.97	1.56	2.12	2.71	3.35	4.09	4.99	6.20	8.17	10.06
Oct	.60	.90	1.40	1.86	2.33	2.83	3.41	4.11	5.05	6.55	7.98
Nov	1.72	2.18	2.84	3.40	3.94	4.48	5.08	5.78	6.67	8.05	9.31
Dec	1.39	1.96	2.86	3.67	4.48	5.34	6.31	7.46	8.99	11.41	13.69
Ann	40.60	44.03	48.44	51.80	54.79	57.69	60.69	64.01	68.05	73.93	79.02

+ 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: 1953-2001
(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	.3	.0	#	0
Feb	.5	.0	#	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	.1	.0	0	0
Dec	#	.0	#	0
Ann	1.0	.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	4.5	2000	28	4.5	2000	5	2000	28	#+	2000
Feb	2.5	1971	8	2.5	1971	3	1971	8	#+	1996
Mar	.5	1980	2	.8	1980	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	1.0	1975	23	1.0	1975	0	0	0	0	0
Dec	#	1972	11	#	1972	2	1985	20	#	1985
Ann	4.5	Jan 2000	28	4.5	Jan 2000	5	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	.3	.2	.1	.0	.0
Feb	.3	.3	.0	.0	.0
Mar	.1	.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	.0	.0	.0	.0	.0
Ann	.8	.6	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	@	.0
Feb	.2	@	.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	.3	.1	@	.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	4/23	4/19	4/16	4/13	4/11	4/08	4/05	4/02	3/29
32	4/19	4/13	4/09	4/06	4/02	3/30	3/27	3/23	3/17
28	4/02	3/27	3/22	3/19	3/15	3/12	3/08	3/03	2/25
24	3/24	3/15	3/09	3/04	2/27	2/22	2/17	2/11	2/02
20	3/09	3/02	2/24	2/20	2/15	2/11	2/06	2/01	1/24
16	3/05	2/23	2/16	2/10	2/04	1/29	1/22	1/14	12/29

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	10/05	10/11	10/14	10/18	10/21	10/23	10/27	10/30	11/05
32	10/18	10/24	10/28	11/01	11/04	11/08	11/11	11/16	11/22
28	10/29	11/04	11/08	11/12	11/16	11/19	11/23	11/27	12/03
24	11/06	11/15	11/21	11/27	12/02	12/07	12/12	12/18	12/27
20	11/15	11/25	12/02	12/08	12/13	12/19	12/25	1/01	1/10
16	11/27	12/09	12/17	12/24	12/31	1/08	1/16	1/26	2/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	212	205	200	196	192	188	184	180	173
32	239	230	225	220	215	210	205	199	191
28	274	264	257	250	245	239	233	226	216
24	312	300	291	284	277	270	263	254	242
20	338	323	314	306	299	292	284	276	264
16	>365	>365	353	337	326	317	307	297	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	767	572	384	163	36	0	0	0	11	139	382	660	3114
60	620	439	250	77	9	0	0	0	2	64	254	516	2231
57	533	361	183	42	3	0	0	0	0	35	189	432	1778
55	476	311	145	26	1	0	0	0	0	22	153	379	1513
50	346	203	71	6	0	0	0	0	0	5	79	262	972
32	55	14	0	0	0	0	0	0	0	0	1	29	99

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	311	365	648	866	1164	1346	1508	1478	1249	951	618	394	10898
55	20	19	80	203	452	656	795	765	559	259	80	30	3918
57	14	13	56	159	392	596	733	703	499	211	57	21	3454
60	8	7	29	104	304	506	640	610	411	147	31	12	2809
65	0	0	8	39	176	357	485	455	270	67	10	1	1868
70	0	0	0	10	82	212	330	301	150	22	1	0	1108

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	140	210	418	624	911	1097	1248	1215	993	689	375	189	140	350	768	1392	2303	3400	4648	5863	6856	7545	7920	8109
45	74	126	287	478	756	947	1093	1060	843	534	257	107	74	200	487	965	1721	2668	3761	4821	5664	6198	6455	6562
50	35	67	179	339	601	797	938	905	693	383	155	54	35	102	281	620	1221	2018	2956	3861	4554	4937	5092	5146
55	13	27	94	213	447	647	783	750	543	250	86	26	13	40	134	347	794	1441	2224	2974	3517	3767	3853	3879
60	0	5	40	118	299	497	628	595	400	143	38	2	0	5	45	163	462	959	1587	2182	2582	2725	2763	2765
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	84	132	253	392	601	757	857	830	670	442	227	115	84	216	469	861	1462	2219	3076	3906	4576	5018	5245	5360

(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