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: PASCAGOULA 3 NE, MS **COOP ID: 226718**

Climate Division: MS10 **NWS Call Sign:** **Elevation: 11 Feet** **Lat: 30˚24N** **Lon: 88˚29W**

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	59.6	39.1	49.4	80	1949	11	56.7	1989	6	1985	21	39.9	1977	497	0	.0	.0	26.7	@	7.7	.0
Feb	62.9	41.9	52.4	80+	1957	9	57.9	1990	12	1951	3	43.5	1978	357	5	.0	.0	26.0	.1	4.8	.0
Mar	68.7	48.2	58.5	84	2000	31	63.1	1997	22+	1980	2	52.9	1996	221	18	.0	.0	30.6	.0	1.1	.0
Apr	75.4	54.8	65.1	93+	1948	29	71.4	1981	32	1987	6	61.2	1997	83	86	.0	.1	30.0	.0	@	.0
May	82.3	62.4	72.4	98	1953	27	76.1	1975	41	1986	4	68.6	1988	7	236	.0	1.3	31.0	.0	.0	.0
Jun	87.6	69.1	78.4	101	1969	29	81.8	1981	51	1970	4	75.6	1997	0	400	.0	10.6	30.0	.0	.0	.0
Jul	89.7	71.5	80.6	104	1980	16	84.3	1981	60	1967	15	76.9	1973	0	483	.3	16.5	31.0	.0	.0	.0
Aug	89.7	71.8	80.8	102	1951	30	84.1	1980	58	1973	22	78.1	1992	0	487	.1	16.5	31.0	.0	.0	.0
Sep	86.7	67.8	77.3	100+	1954	1	82.8	1972	44	1967	29	74.2	1983	1	368	@	8.3	30.0	.0	.0	.0
Oct	78.7	56.4	67.6	92+	1963	5	72.9	1971	31	1957	27	60.1	1987	66	146	.0	.4	31.0	.0	.1	.0
Nov	70.0	48.1	59.1	88	1963	1	66.1	1978	23	1950	25	51.3	1976	221	41	.0	.0	29.8	.0	1.2	.0
Dec	62.5	41.6	52.1	81+	1981	1	60.9	1971	6	1983	25	43.0	1989	417	16	.0	.0	28.6	.1	5.7	.0
Ann	76.2	56.1	66.1	104	Jul 1980	16	84.3	Jul 1981	6+	Jan 1985	21	39.9	Jan 1977	1870	2286	.4	53.7	355.7	.2	20.6	.0

+ 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

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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	6.17	5.50	7.80	1978	25	17.09	1998	1.34	2000
Feb	5.30	4.28	8.34	1981	11	14.94	1981	.20	1999
Mar	6.22	5.39	8.86	1957	24	11.76	1995	2.14	1981
Apr	4.57	3.60	7.73	1996	15	14.66	1983	.54	1987
May	5.91	5.25	8.73	1972	8	16.68	1972	.62	1988
Jun	5.42	5.09	7.83	1958	18	11.76	1997	.15	1977
Jul	7.29	7.07	7.80	1972	30	19.40	1997	.42	1983
Aug	6.47	5.73	7.23	1988	9	15.24	1987	1.09	1980
Sep	6.52	5.37	8.40	1980	19	26.24	1998	1.02	1999
Oct	3.70	2.88	7.72	1956	1	11.83	1999	.00+	1987
Nov	5.13	4.65	7.31	1979	1	11.32	1992	.90	1981
Dec	4.31	3.72	4.73	1972	21	11.05	1982	2.47	1998
Ann	67.01	66.52	8.86	Mar 1957	24	26.24	Sep 1998	.00+	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.3	7.1	3.7	2.3
Feb	7.9	6.1	3.2	1.7
Mar	8.3	6.3	3.4	2.1
Apr	6.0	4.6	2.4	1.4
May	7.1	5.8	3.4	2.0
Jun	8.2	6.0	3.6	1.8
Jul	11.9	9.1	4.8	2.3
Aug	11.3	8.3	4.0	2.1
Sep	8.5	6.6	3.3	1.8
Oct	5.2	3.7	2.0	1.1
Nov	7.6	5.8	3.1	1.8
Dec	7.7	5.6	2.7	1.3
Ann	99.0	75.0	39.6	21.7

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	1.32	1.89	2.80	3.62	4.44	5.32	6.31	7.50	9.07	11.57	13.94
Feb	.62	1.02	1.77	2.51	3.29	4.17	5.20	6.47	8.20	11.06	13.83
Mar	2.69	3.25	4.03	4.67	5.27	5.87	6.52	7.27	8.21	9.64	10.93
Apr	.52	.87	1.51	2.15	2.83	3.59	4.48	5.58	7.07	9.54	11.95
May	.92	1.42	2.27	3.09	3.93	4.86	5.92	7.21	8.95	11.77	14.47
Jun	.68	1.11	1.88	2.64	3.43	4.32	5.35	6.62	8.35	11.18	13.92
Jul	1.41	2.07	3.13	4.12	5.12	6.19	7.41	8.87	10.82	13.94	16.91
Aug	1.58	2.18	3.13	3.97	4.80	5.68	6.66	7.83	9.36	11.78	14.06
Sep	.84	1.36	2.29	3.19	4.15	5.21	6.45	7.96	10.02	13.39	16.66
Oct	.00	.00	.67	1.28	1.92	2.65	3.52	4.62	6.09	8.60	11.06
Nov	1.06	1.53	2.28	2.97	3.66	4.40	5.23	6.23	7.55	9.67	11.67
Dec	2.05	2.42	2.93	3.35	3.73	4.11	4.52	4.99	5.58	6.46	7.26
Ann	47.31	51.11	55.98	59.69	62.98	66.17	69.46	73.10	77.52	83.93	89.48

\+ 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	#	.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	#	1973	12	#	1973	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	#	1980	2	#	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	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	#+	Mar 1980	2	#+	Mar 1980	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	.0	.0	.0	.0	.0
Feb	.0	.0	.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	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

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

@ 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	4/01	3/25	3/20	3/16	3/12	3/08	3/04	2/27	2/20
32	3/19	3/12	3/07	3/02	2/26	2/22	2/18	2/12	2/05
28	3/07	2/27	2/21	2/15	2/11	2/06	2/01	1/25	1/17
24	2/24	2/13	2/04	1/26	1/18	1/06	0/00	0/00	0/00
20	1/23	1/09	12/23	0/00	0/00	0/00	0/00	0/00	0/00
16	1/14	12/26	0/00	0/00	0/00	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	10/28	11/06	11/12	11/17	11/22	11/27	12/03	12/09	12/18
32	11/10	11/19	11/25	11/30	12/04	12/09	12/14	12/20	12/29
28	11/21	12/02	12/09	12/16	12/22	12/28	1/04	1/12	1/23
24	12/13	12/27	1/06	1/15	1/26	2/08	0/00	0/00	0/00
20	12/27	1/07	1/20	0/00	0/00	0/00	0/00	0/00	0/00
16	1/07	1/27	0/00	0/00	0/00	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	292	279	270	262	255	247	240	230	218
32	311	301	293	287	281	274	268	260	250
28	350	333	324	317	310	304	297	290	279
24	>365	>365	>365	>365	>365	>365	354	331	311
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	497	357	221	83	7	0	0	0	1	66	221	417	1870
60	360	230	112	28	1	0	0	0	0	23	128	287	1169
57	286	165	66	12	0	0	0	0	0	11	85	222	847
55	243	130	42	6	0	0	0	0	0	6	61	184	672
50	155	60	11	0	0	0	0	0	0	1	23	106	356
32	8	0	0	0	0	0	0	0	0	0	0	2	10

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	546	571	821	993	1252	1390	1506	1510	1357	1102	811	624	12483
55	68	57	150	309	539	700	793	797	667	396	182	93	4751
57	49	37	111	255	477	640	731	735	607	338	146	69	4195
60	29	17	65	181	385	550	638	642	517	258	99	41	3422
65	0	5	18	86	236	400	483	487	368	146	41	16	2286
70	0	0	3	28	111	251	328	332	225	66	14	3	1361

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	354	415	632	798	1058	1204	1304	1295	1149	889	616	432	354	769	1401	2199	3257	4461	5765	7060	8209	9098	9714	10146
45	228	285	480	648	903	1054	1149	1140	999	734	466	298	228	513	993	1641	2544	3598	4747	5887	6886	7620	8086	8384
50	135	177	338	498	748	904	994	985	849	580	327	183	135	312	650	1148	1896	2800	3794	4779	5628	6208	6535	6718
55	65	93	209	351	593	754	839	830	699	426	209	101	65	158	367	718	1311	2065	2904	3734	4433	4859	5068	5169
60	25	40	102	221	439	604	684	675	549	285	119	51	25	65	167	388	827	1431	2115	2790	3339	3624	3743	3794
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	200	241	380	521	741	862	930	925	811	596	381	254	200	441	821	1342	2083	2945	3875	4800	5611	6207	6588	6842

(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