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: PORT GIBSON 3 NE, MS **COOP ID: 227132**

Climate Division: MS 7 **NWS Call Sign:** **Elevation: 120 Feet** **Lat: 32˚00N** **Lon: 90˚57W**

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	55.1	32.6	43.9	85	1938	22	50.3	1974	-5	1940	27	33.8	1977	659	0	.0	.0	21.7	.8	16.8	.1
Feb	60.0	36.0	48.0	87	1977	26	54.3	1976	-1+	1951	3	38.6	1978	476	0	.0	.0	22.7	.7	11.2	.0
Mar	67.9	43.0	55.5	91+	1946	30	60.4	1985	15	1980	3	50.5	1978	307	11	.0	.0	29.1	@	4.1	.0
Apr	74.6	49.8	62.2	94+	1987	22	68.8	1981	26	1987	4	57.8	1993	132	48	.0	.3	30.0	.0	.7	.0
May	81.5	59.4	70.5	99	1951	31	74.2	1996	40+	1960	13	65.6	1976	22	191	.0	2.7	31.0	.0	.0	.0
Jun	87.9	66.3	77.1	104	1936	20	81.3	1998	45+	1966	1	74.2	1983	0	363	@	15.7	30.0	.0	.0	.0
Jul	90.5	69.6	80.1	104+	1930	12	82.6	1980	51	1967	15	76.3	1984	0	466	.2	23.6	31.0	.0	.0	.0
Aug	90.6	68.5	79.6	105	2000	31	83.1	2000	52	1946	31	76.3	1992	0	452	.5	22.2	31.0	.0	.0	.0
Sep	86.0	62.6	74.3	105	2000	1	78.7	1998	35+	1967	29	70.7	1974	5	284	.2	11.9	30.0	.0	.0	.0
Oct	76.6	49.5	63.1	97	1955	6	67.8	1973	23	1952	30	56.6	1976	121	61	.0	.9	30.9	.0	.5	.0
Nov	66.1	41.5	53.8	88	1935	1	60.1	1985	15	1976	30	45.7	1976	349	13	.0	.0	28.3	.0	6.5	.0
Dec	57.6	34.9	46.3	84	1982	3	54.5	1984	4+	1989	23	37.2	1989	584	2	.0	.0	23.9	.4	14.9	.0
Ann	74.5	51.1	62.9	105+	Sep 2000	1	83.1	Aug 2000	-5	Jan 1940	27	33.8	Jan 1977	2655	1891	.9	77.3	339.6	1.9	54.7	.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

(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

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	6.40	5.24	7.10	1979	20	16.98	1979	.84	1986
Feb	4.82	4.32	4.29	1939	18	11.77	1987	.72	2000
Mar	6.44	6.32	6.00	1977	4	14.04	1976	2.13	1978
Apr	5.84	4.22	7.96	1974	13	17.30	1991	1.33	1987
May	5.57	5.08	8.95	1990	13	14.47	1983	.21	1988
Jun	4.64	4.17	7.07	1934	17	11.97	1975	.80	1990
Jul	4.16	3.58	3.95	1981	2	11.24	1979	1.01	1983
Aug	3.12	3.12	5.18	1992	27	8.65	1992	.25	1993
Sep	3.42	3.01	5.30	1932	20	8.51	1973	.71	1984
Oct	3.62	2.85	5.31	1942	26	12.97	1984	.25	1989
Nov	5.05	4.89	9.73	1964	28	9.92	1987	1.04	1999
Dec	5.84	5.33	4.87	1973	25	11.98	1982	.96	1980
Ann	58.92	58.30	9.73	Nov 1964	28	17.30	Apr 1991	.21	May 1988

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.7	4.2	2.0
Feb	8.2	6.1	3.3	1.6
Mar	9.5	6.9	4.1	2.2
Apr	7.5	5.7	3.3	2.0
May	8.9	6.6	3.6	1.9
Jun	9.1	6.3	2.9	1.6
Jul	9.7	6.5	2.6	1.1
Aug	8.1	5.3	2.0	.8
Sep	7.8	5.2	2.5	1.0
Oct	6.1	4.3	2.4	1.3
Nov	8.6	6.2	3.5	1.8
Dec	9.5	7.1	3.7	1.7
Ann	103.5	73.9	38.1	19.0

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	1.45	2.05	2.98	3.83	4.67	5.56	6.57	7.77	9.34	11.85	14.21
Feb	1.26	1.72	2.41	3.03	3.63	4.27	4.98	5.82	6.91	8.63	10.24
Mar	2.74	3.32	4.14	4.81	5.43	6.07	6.75	7.53	8.53	10.03	11.40
Apr	1.04	1.56	2.41	3.21	4.03	4.91	5.91	7.13	8.75	11.36	13.85
May	.68	1.12	1.91	2.68	3.51	4.42	5.49	6.81	8.60	11.54	14.39
Jun	.87	1.28	1.96	2.59	3.24	3.93	4.71	5.66	6.92	8.94	10.87
Jul	1.26	1.65	2.24	2.75	3.24	3.76	4.32	4.98	5.84	7.18	8.42
Aug	.52	.79	1.25	1.67	2.11	2.59	3.14	3.80	4.69	6.13	7.50
Sep	.88	1.21	1.70	2.14	2.57	3.03	3.53	4.13	4.92	6.15	7.31
Oct	.40	.68	1.18	1.69	2.23	2.83	3.54	4.42	5.62	7.61	9.54
Nov	1.61	2.09	2.80	3.41	3.99	4.60	5.26	6.04	7.04	8.60	10.04
Dec	1.95	2.50	3.31	4.00	4.66	5.34	6.09	6.96	8.08	9.81	11.41
Ann	44.01	46.95	50.69	53.51	56.00	58.39	60.86	63.57	66.84	71.56	75.62

\+ 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
(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	.3	.0	#	0
Feb	#	.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	.0	.0	0	0
Dec	.0	.0	#	0
Ann	.4	.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	1977	31	6.5	1977	5	1977	31	#	1977
Feb	#	1995	9	#+	1995	#+	1989	8	#	1989
Mar	1.0	1978	4	1.0	1978	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	.8	1976	29	.8	1976	0	0	0	0	0
Dec	.2	1989	9	.2+	1989	#	1990	24	#	1990
Ann	4.5	Jan 1977	31	6.5	Jan 1977	5	Jan 1977	31	#+	Dec 1990

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.1	.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	@	.0	.0	.0	.0
Dec	@	.0	.0	.0	.0
Ann	.3	.2	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	@	@	.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	.1	@	@	.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	4/18	4/13	4/10	4/07	4/04	4/01	3/29	3/26	3/21
32	4/09	4/03	3/30	3/26	3/23	3/19	3/16	3/11	3/05
28	3/20	3/13	3/09	3/05	3/01	2/25	2/21	2/17	2/10
24	3/12	3/04	2/27	2/22	2/18	2/13	2/09	2/03	1/27
20	3/05	2/22	2/14	2/07	2/01	1/25	1/17	1/07	0/00
16	2/15	2/04	1/25	1/16	1/05	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	10/07	10/14	10/18	10/22	10/26	10/29	11/02	11/06	11/13
32	10/21	10/27	10/31	11/04	11/07	11/10	11/13	11/17	11/23
28	11/04	11/09	11/13	11/17	11/20	11/23	11/26	11/30	12/05
24	11/12	11/22	11/30	12/06	12/12	12/18	12/25	1/01	1/11
20	11/29	12/11	12/19	12/27	1/03	1/10	1/19	1/31	0/00
16	12/10	12/20	12/28	1/05	1/15	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	228	220	214	209	204	199	194	188	180
32	256	247	240	234	228	223	217	210	200
28	290	281	274	268	263	257	252	245	236
24	322	311	304	299	293	288	283	276	268
20	>365	>365	>365	342	330	322	313	305	293
16	>365	>365	>365	>365	>365	>365	341	326	313

***** 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	659	476	307	132	22	0	0	0	5	121	349	584	2655
60	514	344	181	55	4	0	0	0	0	50	225	441	1814
57	431	268	122	27	1	0	0	0	0	25	165	359	1398
55	378	222	90	15	0	0	0	0	0	15	131	309	1160
50	263	128	33	3	0	0	0	0	0	3	64	202	696
32	30	3	0	0	0	0	0	0	0	0	0	14	47

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	398	451	727	907	1192	1353	1489	1475	1269	963	654	455	11333
55	33	26	104	232	479	663	776	762	579	265	95	37	4051
57	24	16	74	184	418	603	714	700	519	214	69	26	3561
60	15	8	40	122	328	513	621	607	429	146	39	14	2882
65	0	0	11	48	191	363	466	452	284	61	13	2	1891
70	0	0	1	12	87	216	311	297	158	18	2	0	1102

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	229	308	530	708	980	1139	1266	1250	1057	757	458	277	229	537	1067	1775	2755	3894	5160	6410	7467	8224	8682	8959
45	142	207	393	558	825	989	1111	1095	907	602	327	176	142	349	742	1300	2125	3114	4225	5320	6227	6829	7156	7332
50	80	121	263	415	670	839	956	940	757	449	211	103	80	201	464	879	1549	2388	3344	4284	5041	5490	5701	5804
55	36	59	158	276	515	689	801	785	607	303	124	53	36	95	253	529	1044	1733	2534	3319	3926	4229	4353	4406
60	13	24	81	164	362	539	646	630	457	184	58	25	13	37	118	282	644	1183	1829	2459	2916	3100	3158	3183
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	156	208	342	461	661	785	868	853	717	501	301	183	156	364	706	1167	1828	2613	3481	4334	5051	5552	5853	6036

(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