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: BILOXI, MS **COOP ID: 220792**

Climate Division: MS10 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 30˚23N** **Lon: 88˚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	57.9	43.5	50.7	82	1949	11	60.8	1974	10+	1962	11	42.9	1978	460	4	.0	.0	27.8	@	5.6	.0
Feb	61.5	46.5	54.0	80	2001	22	59.7	1975	14	1951	3	45.8	1978	317	9	.0	.0	26.6	.0	2.9	.0
Mar	67.4	52.7	60.1	85+	1975	25	65.3	2000	22+	1980	2	53.7	1983	188	33	.0	.0	30.7	.0	.6	.0
Apr	74.2	59.0	66.6	91	1948	28	72.6	1999	30	1975	4	61.9	1983	52	100	.0	@	30.0	.0	@	.0
May	81.1	67.2	74.2	98+	1953	26	79.6	2000	45+	1952	12	70.5	1976	4	287	.0	1.0	31.0	.0	.0	.0
Jun	86.4	73.2	79.8	102	1950	27	83.6	1998	55	1956	3	76.1	1983	0	444	.0	9.1	30.0	.0	.0	.0
Jul	88.5	74.9	81.7	103	1980	16	84.9	1998	60	1967	15	79.6	1972	0	518	.3	17.7	31.0	.0	.0	.0
Aug	88.4	74.5	81.5	104+	1951	30	85.1	1999	61	1967	12	79.3	1992	0	510	.2	17.7	31.0	.0	.0	.0
Sep	84.9	70.6	77.8	101	1954	10	81.1	1997	45	1967	29	74.0	1983	0	383	.0	7.1	30.0	.0	.0	.0
Oct	77.1	60.5	68.8	94	1997	1	73.5	1984	32+	1957	28	63.3	1976	45	162	.0	.2	31.0	.0	@	.0
Nov	68.0	52.0	60.0	86	1950	1	67.8	1985	25+	1950	25	51.7	1976	204	54	.0	.0	29.8	.0	.6	.0
Dec	60.6	46.0	53.3	80	1998	8	61.1	1971	9	1962	13	44.8	1989	375	13	.0	.0	29.1	@	3.7	.0
Ann	74.7	60.1	67.4	104+	Aug 1951	30	85.1	Aug 1999	9	Dec 1962	13	42.9	Jan 1978	1645	2517	.5	52.8	358.0	.0	13.4	.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

(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	6.08	5.38	8.96	1965	23	19.85	1991	1.00	1981
Feb	5.48	5.39	4.65	1992	17	11.52	1979	.39	1999
Mar	6.16	5.35	6.45	1953	15	13.42	1995	2.78	1983
Apr	4.82	4.46	7.73	1980	13	17.15	1980	.53	1999
May	5.37	4.95	7.09	1995	9	16.32	1995	.13	2000
Jun	5.03	4.61	7.17	2001	11	11.30	1992	.47	1990
Jul	7.40	7.10	9.49	1995	2	16.71	1995	1.51	1983
Aug	5.80	5.20	10.46	1988	9	15.25	1988	1.75	1980
Sep	5.67	4.68	11.30	1998	28	27.70	1998	.54	1987
Oct	3.30	2.66	9.80	1967	30	13.03	1985	.00	1978
Nov	4.84	4.28	3.96	1992	4	14.04	1992	.16	1999
Dec	4.89	4.55	6.35	1994	3	11.37	1982	1.49	1980
Ann	64.84	63.33	11.30	Sep 1998	28	27.70	Sep 1998	.00	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.8	7.7	3.8	1.9
Feb	9.2	6.4	3.4	1.7
Mar	9.8	6.9	4.0	2.2
Apr	7.0	4.8	3.0	1.6
May	7.5	5.4	3.1	1.6
Jun	10.1	6.8	3.2	1.5
Jul	13.3	9.4	4.7	2.3
Aug	12.4	8.1	3.7	1.9
Sep	8.5	6.2	2.8	1.7
Oct	5.6	3.5	1.9	1.1
Nov	8.6	6.3	2.8	1.5
Dec	9.5	5.9	3.0	1.7
Ann	113.3	77.4	39.4	20.7

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	1.39	1.95	2.84	3.64	4.44	5.29	6.24	7.37	8.86	11.23	13.46
Feb	1.08	1.57	2.38	3.12	3.87	4.67	5.58	6.67	8.13	10.45	12.66
Mar	2.59	3.15	3.93	4.58	5.18	5.80	6.46	7.22	8.18	9.64	10.97
Apr	.72	1.13	1.82	2.49	3.18	3.94	4.81	5.88	7.32	9.65	11.89
May	.65	1.07	1.83	2.58	3.37	4.26	5.29	6.57	8.30	11.15	13.92
Jun	.98	1.43	2.17	2.85	3.54	4.28	5.12	6.13	7.46	9.61	11.65
Jul	2.28	2.98	4.03	4.93	5.80	6.70	7.70	8.86	10.37	12.72	14.90
Aug	1.93	2.48	3.28	3.97	4.63	5.31	6.05	6.92	8.03	9.76	11.36
Sep	.46	.83	1.58	2.36	3.23	4.22	5.41	6.90	8.97	12.43	15.85
Oct	.04	.19	.55	.98	1.50	2.14	2.92	3.95	5.42	7.96	10.53
Nov	.74	1.15	1.85	2.51	3.21	3.97	4.84	5.91	7.34	9.67	11.90
Dec	1.82	2.28	2.93	3.48	4.01	4.54	5.12	5.79	6.65	7.97	9.18
Ann	44.82	48.66	53.59	57.35	60.71	63.96	67.32	71.05	75.58	82.17	87.89

\+ 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	0
Feb	#	.0	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
Ann	.1	.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	.0	0	0	.0	0	0	0	0	0	0
Feb	#	1994	2	#	1994	0	0	0	0	0
Mar	1.5	1993	13	1.5	1993	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	#	1995	22	#+	1995	1	1996	18	#+	1996
Ann	1.5	Mar 1993	13	1.5	Mar 1993	1	Dec 1996	18	#+	Dec 1996

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
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

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	3/30	3/22	3/17	3/12	3/08	3/03	2/27	2/21	2/14
32	3/19	3/11	3/05	2/28	2/23	2/18	2/13	2/08	1/30
28	3/04	2/22	2/15	2/09	2/03	1/29	1/22	1/14	12/29
24	2/24	2/12	2/03	1/25	1/16	1/02	0/00	0/00	0/00
20	1/25	1/09	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/13	0/00	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	11/03	11/10	11/15	11/20	11/24	11/28	12/03	12/08	12/16
32	11/12	11/22	11/29	12/05	12/10	12/16	12/22	12/29	1/07
28	11/25	12/07	12/16	12/24	12/31	1/07	1/16	1/27	2/16
24	12/16	12/27	1/05	1/13	1/23	2/05	0/00	0/00	0/00
20	1/06	1/23	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/12	0/00	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	287	278	271	266	261	255	250	243	234
32	321	308	300	293	287	281	274	267	256
28	>365	>365	355	338	327	317	308	298	284
24	>365	>365	>365	>365	>365	>365	352	332	314
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	460	317	188	52	4	0	0	0	0	45	204	375	1645
60	329	199	94	12	0	0	0	0	0	14	117	245	1010
57	261	142	54	4	0	0	0	0	0	6	76	182	725
55	221	111	34	2	0	0	0	0	0	3	54	147	572
50	139	49	9	0	0	0	0	0	0	0	20	73	290
32	7	0	0	0	0	0	0	0	0	0	0	0	7

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	587	616	868	1038	1306	1434	1541	1533	1373	1140	840	661	12937
55	88	84	190	349	593	744	828	820	683	430	204	95	5108
57	65	59	147	291	531	684	766	758	623	370	166	69	4529
60	40	31	94	210	438	594	673	665	533	285	117	39	3719
65	4	9	33	100	287	444	518	510	383	162	54	13	2517
70	3	0	8	32	154	294	363	355	237	71	19	1	1537

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	385	441	657	826	1091	1222	1325	1315	1164	927	642	459	385	826	1483	2309	3400	4622	5947	7262	8426	9353	9995	10454
45	247	308	503	676	936	1072	1170	1160	1014	772	493	317	247	555	1058	1734	2670	3742	4912	6072	7086	7858	8351	8668
50	142	190	356	527	781	922	1015	1005	864	617	348	199	142	332	688	1215	1996	2918	3933	4938	5802	6419	6767	6966
55	71	97	220	378	626	772	860	850	714	464	224	110	71	168	388	766	1392	2164	3024	3874	4588	5052	5276	5386
60	26	37	112	239	471	622	705	695	564	318	125	48	26	63	175	414	885	1507	2212	2907	3471	3789	3914	3962
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	209	246	391	536	774	885	943	936	832	626	391	260	209	455	846	1382	2156	3041	3984	4920	5752	6378	6769	7029

(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