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: GULFPORT NAVAL CENTER, MS **COOP ID: 223671**

Climate Division: MS10 **NWS Call Sign:** **Elevation: 35 Feet** **Lat: 30˚23N** **Lon: 89˚08W**

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	60.6	42.6	51.6	80	1982	7	62.2	1974	4	1985	21	44.2	1978	433	3	.0	.0	27.7	@	6.4	.0
Feb	64.0	45.8	54.9	85+	1957	7	60.9	1975	11	1951	2	47.2	1978	289	7	.0	.0	26.6	@	3.4	.0
Mar	70.3	52.5	61.4	87	2000	30	66.3	1974	22+	1980	2	55.9	1996	159	47	.0	.0	30.7	.0	.9	.0
Apr	76.5	58.6	67.6	94+	1981	30	72.5	1981	34+	1950	7	63.1	1993	42	117	.0	.2	30.0	.0	.0	.0
May	83.6	66.4	75.0	98+	1951	31	78.7	2000	44	1960	13	71.9	1993	1	311	.0	2.2	31.0	.0	.0	.0
Jun	88.9	71.8	80.4	101	1954	30	83.4	1981	52	1984	1	77.7	1990	0	459	.0	12.6	30.0	.0	.0	.0
Jul	91.3	73.9	82.6	103+	1980	7	85.6	1981	58	1967	15	79.5	1994	0	545	.5	21.2	31.0	.0	.0	.0
Aug	90.7	73.8	82.3	102	1980	22	85.4	1980	59	1967	12	78.8	1992	0	535	.2	19.9	31.0	.0	.0	.0
Sep	87.0	70.1	78.6	100	1980	3	83.5	1980	42	1967	29	75.9	1975	0	407	@	8.9	30.0	.0	.0	.0
Oct	79.2	59.6	69.4	93+	1977	1	74.4	1984	33+	1953	30	63.7	1987	38	174	.0	.5	31.0	.0	.0	.0
Nov	69.9	51.1	60.5	88+	1950	12	66.5	1985	20	1954	3	52.4	1976	193	58	.0	.0	29.7	.0	.9	.0
Dec	62.9	45.0	54.0	82	1977	5	62.5	1971	9+	1989	23	45.8	1989	359	16	.0	.0	28.9	.1	4.3	.0
Ann	77.1	59.3	68.2	103+	Jul 1980	7	85.6	Jul 1981	4	Jan 1985	21	44.2	Jan 1978	1514	2679	.7	65.5	357.6	.1	15.9	.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

Issue Date: February 2004

(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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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	6.49	4.97	8.08	1965	23	23.10	1991	.81	1981
Feb	5.52	4.64	5.53	1992	17	12.99	1979	.53	1999
Mar	6.03	5.53	5.21	2001	12	12.22	1995	1.19	1989
Apr	5.06	3.84	8.00	1983	7	15.02	1980	.48	1999
May	5.68	4.38	8.65	1978	3	17.63	1980	.02	2000
Jun	5.04	5.34	7.95	2001	11	9.74	1989	.98	1988
Jul	6.92	6.17	6.86	1985	5	18.53	1985	1.80	1986
Aug	5.79	4.87	5.04	1991	27	16.45	1988	1.01	1989
Sep	6.17	4.24	10.00	1957	18	25.28	1998	.56	1981
Oct	2.85	2.53	10.70	1967	30	9.89	1986	.00	1978
Nov	4.81	5.03	4.60	1961	14	11.95	2000	.25	1981
Dec	4.84	4.99	5.80	1994	3	10.36	1982	.80	1980
Ann	65.20	64.28	10.70	Oct 1967	30	25.28	Sep 1998	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.6	7.8	3.9	2.1
Feb	9.1	6.7	3.5	1.9
Mar	9.6	6.9	3.8	2.3
Apr	7.2	4.8	2.7	1.7
May	8.0	5.5	3.1	1.7
Jun	9.7	6.9	3.2	1.5
Jul	13.4	9.3	4.0	2.2
Aug	12.6	8.7	3.6	1.7
Sep	9.1	6.6	3.5	1.8
Oct	5.6	3.5	1.9	1.0
Nov	8.8	6.0	3.0	1.5
Dec	9.6	5.9	2.9	1.6
Ann	114.3	78.6	39.1	21.0

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	1.01	1.56	2.50	3.40	4.32	5.34	6.51	7.93	9.84	12.94	15.92
Feb	.89	1.36	2.17	2.93	3.71	4.57	5.55	6.74	8.34	10.94	13.42
Mar	2.30	2.86	3.67	4.33	4.97	5.61	6.32	7.13	8.16	9.75	11.20
Apr	.55	.93	1.63	2.34	3.09	3.94	4.94	6.18	7.87	10.66	13.38
May	.48	.87	1.63	2.41	3.28	4.27	5.44	6.92	8.96	12.37	15.72
Jun	1.47	1.95	2.67	3.29	3.90	4.53	5.23	6.05	7.12	8.78	10.33
Jul	1.62	2.26	3.28	4.18	5.08	6.04	7.11	8.38	10.06	12.71	15.21
Aug	1.33	1.87	2.72	3.48	4.24	5.04	5.95	7.03	8.44	10.70	12.82
Sep	.53	.95	1.77	2.62	3.56	4.64	5.91	7.51	9.73	13.42	17.06
Oct	.03	.17	.48	.86	1.31	1.85	2.53	3.41	4.67	6.84	9.04
Nov	.78	1.19	1.89	2.56	3.24	3.98	4.83	5.87	7.26	9.51	11.67
Dec	1.76	2.21	2.87	3.42	3.94	4.48	5.06	5.74	6.60	7.94	9.16
Ann	43.97	47.99	53.20	57.18	60.74	64.20	67.79	71.77	76.62	83.71	89.87

\+ 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
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	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	#	1973	12	#	1973	0	0	0	0	0
Feb	.0	0	0	.0	0	1	1973	9	#	1973
Mar	2.0	1993	13	2.0	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	1.0	1996	18	1.0	1996	0	0	0	0	0
Ann	2.0	Mar 1993	13	2.0	Mar 1993	1	Feb 1973	9	#	Feb 1973

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
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	3/23	3/18	3/14	3/10	3/06	3/02	2/25	2/18
32	3/16	3/08	3/02	2/26	2/21	2/17	2/12	2/06	1/30
28	3/05	2/23	2/17	2/11	2/05	1/31	1/25	1/17	1/06
24	2/20	2/08	1/30	1/21	1/12	12/31	0/00	0/00	0/00
20	1/19	1/10	1/01	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	10/31	11/07	11/12	11/17	11/21	11/25	11/29	12/04	12/11
32	11/08	11/18	11/25	12/01	12/07	12/12	12/19	12/26	1/05
28	11/23	12/03	12/11	12/18	12/24	12/30	1/06	1/15	1/28
24	12/10	12/17	12/23	12/28	1/03	1/10	0/00	0/00	0/00
20	12/27	1/04	1/12	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	279	271	265	260	255	250	245	239	231
32	317	307	300	294	288	282	276	269	259
28	>365	351	337	327	319	311	303	295	282
24	>365	>365	>365	>365	>365	350	332	319	306
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	433	289	159	42	1	0	0	0	0	38	193	359	1514
60	304	170	74	9	0	0	0	0	0	11	109	233	910
57	239	115	39	3	0	0	0	0	0	4	70	173	643
55	201	86	24	1	0	0	0	0	0	2	49	138	501
50	121	31	5	0	0	0	0	0	0	0	18	67	242
32	4	0	0	0	0	0	0	0	0	0	0	0	4

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	612	642	911	1065	1333	1449	1568	1558	1397	1159	855	680	13229
55	96	84	222	376	620	759	855	845	707	448	214	105	5331
57	71	57	175	318	558	699	793	783	647	389	175	77	4742
60	44	28	117	235	465	609	700	690	557	302	123	44	3914
65	3	7	47	117	311	459	545	535	407	174	58	16	2679
70	2	0	13	40	166	309	390	380	259	79	21	3	1662

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	376	441	663	827	1095	1213	1325	1307	1152	913	619	445	376	817	1480	2307	3402	4615	5940	7247	8399	9312	9931	10376
45	249	309	510	677	940	1063	1170	1152	1002	758	471	311	249	558	1068	1745	2685	3748	4918	6070	7072	7830	8301	8612
50	149	193	362	528	785	913	1015	997	852	603	331	195	149	342	704	1232	2017	2930	3945	4942	5794	6397	6728	6923
55	73	103	228	381	630	763	860	842	702	450	212	107	73	176	404	785	1415	2178	3038	3880	4582	5032	5244	5351
60	26	44	117	241	475	613	705	687	552	304	114	46	26	70	187	428	903	1516	2221	2908	3460	3764	3878	3924
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	210	249	402	540	771	866	930	926	822	612	380	255	210	459	861	1401	2172	3038	3968	4894	5716	6328	6708	6963

(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