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: CALHOUN CITY 2 NW, MS **COOP ID: 221314**

Climate Division: MS 2 **NWS Call Sign:** **Elevation: 268 Feet** **Lat: 33˚52N** **Lon: 89˚21W**

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	51.5	28.9	40.2	80	1972	24	46.7	1989	-14	1966	30	29.6	1977	769	0	.0	.0	20.0	1.4	17.4	.1
Feb	57.1	31.8	44.5	86	1996	23	52.1	1990	3	1996	4	33.8	1978	575	0	.0	.0	21.9	.6	12.8	.0
Mar	65.9	40.1	53.0	89	1963	31	58.6	1974	10	1980	3	47.5	1971	378	6	.0	.0	29.5	@	6.8	.0
Apr	74.0	48.3	61.2	92	1987	22	66.8	1981	26+	1962	3	56.2	1983	152	38	.0	.3	29.9	.0	1.3	.0
May	81.2	57.3	69.3	96	1955	3	73.3	1987	33	1976	4	64.3	1976	35	167	.0	1.7	31.0	.0	.0	.0
Jun	87.9	64.8	76.4	101+	1977	6	79.8	1998	42	1966	1	72.0	1992	1	341	.1	12.0	30.0	.0	.0	.0
Jul	91.7	69.0	80.4	104+	1980	16	84.1	1980	50	1967	15	77.5	1972	0	476	.5	22.5	31.0	.0	.0	.0
Aug	91.1	67.7	79.4	106	2000	30	82.9	2000	47	1956	23	75.7	1994	0	447	.7	21.3	31.0	.0	.0	.0
Sep	85.6	60.7	73.2	104	2000	1	78.7	1998	34+	1967	29	69.4	1975	11	256	.3	9.9	30.0	.0	.0	.0
Oct	76.5	48.1	62.3	95+	1963	13	67.8	1984	24+	1957	28	57.1	1987	139	55	.0	.7	30.9	.0	1.3	.0
Nov	64.2	38.9	51.6	87	1955	14	58.9	1985	11	1959	18	43.2	1976	411	7	.0	.0	27.9	@	7.7	.0
Dec	55.0	32.5	43.8	81	1955	3	53.8	1984	-8	1989	24	34.3	2000	659	0	.0	.0	23.0	.7	14.8	.1
Ann	73.5	49.0	61.3	106	Aug 2000	30	84.1	Jul 1980	-14	Jan 1966	30	29.6	Jan 1977	3130	1793	1.6	68.4	336.1	2.7	62.1	.2

\+ 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	5.39	4.63	5.80	2001	19	14.36	1979	.61	1986
Feb	4.45	4.18	4.90	1991	19	12.02	1991	.89	1986
Mar	5.74	5.06	5.95	1973	16	14.79	1980	1.47	1985
Apr	5.70	4.89	5.75	2000	2	18.74	1991	.60	1986
May	5.41	4.74	5.83	1997	3	14.61	1997	.76	1988
Jun	4.57	3.65	5.16	1989	5	12.54	1989	.16	1988
Jul	4.20	3.89	3.85	1963	14	15.46	1979	.53	1986
Aug	3.21	2.51	4.25	1998	8	7.89	1996	.06	1980
Sep	3.44	2.80	3.80	1969	4	8.76	1988	.11	1998
Oct	2.99	2.94	2.75	1970	12	8.41	1984	.22	1978
Nov	4.84	4.53	4.60	1957	14	12.02	1979	1.29	1981
Dec	5.92	4.88	7.62	1983	3	16.84	1982	.52	1980
Ann	55.86	53.43	7.62	Dec 1983	3	18.74	Apr 1991	.06	Aug 1980

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.6	7.4	3.8	1.8
Feb	6.6	5.9	3.1	1.7
Mar	7.7	7.2	3.6	1.8
Apr	7.0	6.2	3.6	2.1
May	7.8	6.9	3.8	1.6
Jun	6.9	6.3	3.2	1.4
Jul	6.5	5.7	2.9	1.2
Aug	5.6	4.8	2.3	1.0
Sep	5.7	4.8	2.5	1.2
Oct	4.8	4.0	2.2	1.1
Nov	7.3	6.5	3.5	1.7
Dec	7.5	6.7	3.6	1.9
Ann	82.0	72.4	38.1	18.5

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	1.90	2.68	3.38	4.06	4.77	5.57	6.52	7.75	9.70	11.52
Feb	1.33	1.75	2.38	2.93	3.46	4.02	4.62	5.34	6.27	7.72	9.06
Mar	1.90	2.44	3.24	3.92	4.57	5.25	5.99	6.85	7.96	9.68	11.26
Apr	1.05	1.55	2.39	3.16	3.95	4.80	5.77	6.94	8.50	11.01	13.40
May	1.16	1.66	2.45	3.17	3.90	4.67	5.54	6.58	7.95	10.14	12.22
Jun	.76	1.15	1.82	2.44	3.09	3.79	4.60	5.57	6.88	9.00	11.02
Jul	.77	1.14	1.76	2.33	2.91	3.54	4.25	5.12	6.27	8.12	9.88
Aug	.34	.58	1.03	1.48	1.96	2.49	3.13	3.91	4.99	6.77	8.50
Sep	.59	.89	1.39	1.86	2.34	2.87	3.47	4.19	5.16	6.73	8.23
Oct	.54	.80	1.24	1.65	2.06	2.51	3.03	3.64	4.47	5.79	7.06
Nov	1.65	2.11	2.78	3.34	3.88	4.44	5.05	5.76	6.67	8.08	9.38
Dec	1.23	1.77	2.64	3.44	4.23	5.09	6.05	7.20	8.73	11.17	13.48
Ann	35.37	39.16	44.11	47.93	51.37	54.73	58.24	62.15	66.94	73.98	80.14

\+ 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	.4	.0	#	0
Feb	.4	.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
Ann	.8	.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	3.0	1985	4	3.0	1988	5	2000	28	#+	2000
Feb	2.5	1971	8	3.3	1971	3	1996	4	#+	1997
Mar	.1	1971	4	.1	1971	#+	1996	7	#+	1996
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	.3	1991	8	.3	1991	0	0	0	0	0
Dec	.5	1982	12	.5+	1985	1	1982	12	#+	1996
Ann	3.0	Jan 1985	4	3.3	Feb 1971	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	.2	.2	.1	.0	.0
Feb	.2	.1	.0	.0	.0
Mar	@	.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
Dec	.1	.0	.0	.0	.0
Ann	.5	.3	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.3	.1	.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
Ann	.4	.1	.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	4/27	4/23	4/20	4/17	4/15	4/12	4/10	4/07	4/02
32	4/15	4/11	4/09	4/07	4/05	4/02	3/31	3/29	3/25
28	4/06	3/31	3/27	3/23	3/20	3/17	3/13	3/09	3/03
24	3/16	3/09	3/04	2/28	2/24	2/20	2/16	2/11	2/04
20	3/10	3/02	2/24	2/19	2/15	2/10	2/05	1/30	1/22
16	3/02	2/21	2/14	2/09	2/03	1/29	1/22	1/14	12/31

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	198	193	189	186	183	180	177	173	168
32	227	220	215	210	206	202	198	192	185
28	255	248	242	238	233	229	224	219	211
24	302	293	286	281	276	271	265	259	250
20	342	324	315	307	301	294	287	279	268
16	>365	>365	349	336	327	320	313	305	294

***** 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	769	575	378	152	35	1	0	0	11	139	411	659	3130
60	622	440	243	67	8	0	0	0	2	61	277	514	2234
57	534	362	175	35	2	0	0	0	0	33	209	428	1778
55	477	312	136	20	1	0	0	0	0	20	170	374	1510
50	345	202	63	4	0	0	0	0	0	4	91	254	963
32	53	12	0	0	0	0	0	0	0	0	1	25	91

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	307	361	650	876	1155	1330	1499	1470	1235	939	587	389	10798
55	18	17	74	206	443	640	786	757	545	246	65	25	3822
57	13	11	50	160	382	580	724	695	485	197	45	18	3360
60	8	5	25	103	295	490	631	602	396	132	23	10	2720
65	0	0	6	38	167	341	476	447	256	55	7	0	1793
70	0	0	0	9	74	198	321	293	140	16	0	0	1051

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	176	262	479	668	931	1110	1263	1230	1023	727	414	228	176	438	917	1585	2516	3626	4889	6119	7142	7869	8283	8511
45	101	161	338	519	776	960	1108	1075	873	572	284	140	101	262	600	1119	1895	2855	3963	5038	5911	6483	6767	6907
50	49	90	217	380	621	810	953	920	723	419	178	73	49	139	356	736	1357	2167	3120	4040	4763	5182	5360	5433
55	23	42	122	248	466	660	798	765	573	277	97	35	23	65	187	435	901	1561	2359	3124	3697	3974	4071	4106
60	3	15	56	141	315	510	643	610	424	159	44	6	3	18	74	215	530	1040	1683	2293	2717	2876	2920	2926
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	115	175	309	440	621	765	866	836	688	486	268	142	115	290	599	1039	1660	2425	3291	4127	4815	5301	5569	5711

(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