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: COLUMBIA, MS **COOP ID: 221865**

Climate Division: MS 8 **NWS Call Sign:** **Elevation: 155 Feet** **Lat: 31˚15N** **Lon: 89˚50W**

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	58.8	36.7	47.8	85	1950	26	56.9	1974	4+	1982	11	38.7	1977	547	0	.0	.0	25.5	.2	12.2	.0
Feb	63.2	39.7	51.5	86+	1932	9	57.6	1990	11+	1951	3	42.6	1978	382	2	.0	.0	25.1	.2	7.9	.0
Mar	70.6	47.0	58.8	90+	1935	27	64.1	1974	16	1980	3	53.3	1983	221	30	.0	@	30.3	.0	2.4	.0
Apr	76.8	53.1	65.0	95	1943	30	71.1	1981	23	1940	13	60.4	1983	80	79	.0	.3	30.0	.0	.3	.0
May	84.0	62.0	73.0	101+	1951	30	76.7	2000	39	1971	4	69.0	1976	6	253	.0	6.1	31.0	.0	.0	.0
Jun	90.0	68.4	79.2	108+	1930	26	83.2	1998	46	1984	1	76.6	1976	0	426	.3	20.0	30.0	.0	.0	.0
Jul	91.9	71.3	81.6	107+	1930	11	83.9	1980	53	1967	15	78.6	1972	0	515	1.2	25.4	31.0	.0	.0	.0
Aug	91.8	70.6	81.2	107+	1935	8	84.6	1999	54	1967	12	77.7	1992	0	502	1.3	25.3	31.0	.0	.0	.0
Sep	87.2	65.3	76.3	102+	1980	10	80.2	1980	36	1967	30	72.3	1975	1	339	.2	14.6	30.0	.0	.0	.0
Oct	78.8	53.1	66.0	98+	1931	5	72.3	1984	26	1952	30	60.0	1987	82	111	.0	2.0	31.0	.0	.2	.0
Nov	68.9	44.9	56.9	91	1984	1	64.3	1985	19+	1938	28	49.0	1976	271	28	.0	@	29.4	.0	4.0	.0
Dec	61.2	38.7	50.0	85	1933	16	58.8	1984	5+	1989	23	40.8	1989	476	11	.0	.0	27.0	.1	11.0	.0
Ann	76.9	54.2	65.6	108+	Jun 1930	26	84.6	Aug 1999	4+	Jan 1982	11	38.7	Jan 1977	2066	2296	3.0	93.7	351.3	.5	38.0	.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: 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	7.12	6.52	6.95	1999	30	12.81	1990	1.07	1981
Feb	5.41	4.52	8.62	1961	22	10.84	1987	1.51	2000
Mar	6.51	6.02	5.46	1964	15	17.45	1980	2.53	1978
Apr	5.93	5.22	13.70	1983	7	21.79	1983	.86	1999
May	5.58	5.11	6.02	1980	17	13.11	1991	.87	1977
Jun	4.93	4.21	8.26	1997	18	12.71	1997	.83	1979
Jul	5.55	5.17	4.62	1993	13	11.92	1993	1.52	2000
Aug	4.56	3.69	12.20	1987	13	17.98	1987	.51	1990
Sep	4.13	3.03	7.25	1947	20	8.58	1974	.94	1984
Oct	3.47	2.85	6.88	1934	10	10.17	1985	.00	1978
Nov	4.93	5.09	6.25	1961	14	9.68	1992	1.15	1985
Dec	5.81	5.01	5.27	1973	26	14.14	1971	2.16	1984
Ann	63.93	63.80	13.70	Apr 1983	7	21.79	Apr 1983	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.2	8.4	4.1	2.3
Feb	9.0	6.5	3.6	2.1
Mar	9.9	7.5	4.1	2.3
Apr	7.8	5.5	3.0	2.1
May	9.2	6.9	3.5	1.8
Jun	10.3	6.9	3.4	1.4
Jul	12.5	9.1	3.7	1.7
Aug	10.5	6.7	2.7	1.3
Sep	8.4	5.7	2.9	1.2
Oct	6.0	4.2	2.2	1.2
Nov	9.1	6.4	3.5	1.9
Dec	10.6	7.6	3.8	1.8
Ann	115.5	81.4	40.5	21.1

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	2.43	3.11	4.09	4.92	5.72	6.54	7.44	8.48	9.82	11.90	13.81
Feb	1.54	2.06	2.83	3.51	4.16	4.85	5.61	6.50	7.66	9.48	11.18
Mar	2.69	3.28	4.12	4.81	5.46	6.12	6.82	7.64	8.67	10.25	11.68
Apr	.94	1.45	2.31	3.13	3.98	4.90	5.96	7.25	8.97	11.78	14.46
May	1.20	1.72	2.54	3.28	4.02	4.81	5.71	6.78	8.19	10.44	12.57
Jun	1.22	1.68	2.40	3.04	3.67	4.33	5.08	5.96	7.12	8.95	10.67
Jul	1.98	2.50	3.26	3.89	4.50	5.12	5.80	6.58	7.59	9.14	10.57
Aug	.63	1.00	1.65	2.29	2.95	3.68	4.53	5.57	6.97	9.26	11.47
Sep	1.08	1.47	2.06	2.59	3.11	3.66	4.26	4.98	5.92	7.40	8.78
Oct	.21	.55	1.09	1.60	2.14	2.74	3.43	4.29	5.44	7.34	9.18
Nov	1.72	2.18	2.86	3.43	3.98	4.54	5.15	5.86	6.78	8.19	9.49
Dec	2.13	2.68	3.46	4.12	4.74	5.38	6.07	6.88	7.91	9.50	10.95
Ann	46.49	49.89	54.24	57.53	60.44	63.25	66.15	69.35	73.22	78.82	83.64

\+ 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	0
Mar	.2	.0	#	0
Apr	#	.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	.5	.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	4.0	1977	31	4.5	1977	3	1977	31	#+	1993
Feb	#	1988	6	#	1988	0	0	0	0	0
Mar	3.0	1993	13	3.0	1993	3	1993	13	#	1993
Apr	#	1987	3	#	1987	#	1987	3	#	1987
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	.5	1993	23	.5	1993	0	0	0	0	0
Ann	4.0	Jan 1977	31	4.5	Jan 1977	3+	Mar 1993	13	#+	Mar 1993

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	.1	.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	.1	.0	.0	.0	.0
Ann	.4	.2	.2	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	@	.0	.0
Feb	.0	.0	.0	.0
Mar	@	@	.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	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/14	4/08	4/04	4/01	3/28	3/25	3/21	3/17	3/11
32	3/31	3/25	3/20	3/16	3/13	3/09	3/05	3/01	2/23
28	3/17	3/10	3/05	2/28	2/24	2/20	2/16	2/11	2/04
24	3/05	2/25	2/18	2/13	2/08	2/03	1/28	1/22	1/11
20	2/21	2/11	2/03	1/26	1/18	1/07	0/00	0/00	0/00
16	1/31	1/20	1/09	12/24	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	10/16	10/22	10/26	10/30	11/02	11/06	11/09	11/14	11/20
32	10/30	11/05	11/09	11/13	11/16	11/20	11/23	11/28	12/03
28	11/02	11/12	11/19	11/25	12/01	12/07	12/13	12/21	12/31
24	11/27	12/08	12/16	12/22	12/28	1/04	1/11	1/19	2/01
20	12/08	12/18	12/27	1/03	1/12	1/22	0/00	0/00	0/00
16	12/29	1/12	1/26	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	244	235	229	223	218	213	207	201	192
32	271	263	257	252	248	243	238	232	224
28	308	297	289	283	277	271	265	258	249
24	>365	351	334	324	317	310	303	295	284
20	>365	>365	>365	>365	>365	351	330	317	303
16	>365	>365	>365	>365	>365	>365	>365	>365	348

***** 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	547	382	221	80	6	0	0	0	1	82	271	476	2066
60	408	255	120	25	0	0	0	0	0	31	167	339	1345
57	333	187	74	10	0	0	0	0	0	15	118	266	1003
55	287	149	51	5	0	0	0	0	0	8	90	224	814
50	193	74	16	0	0	0	0	0	0	2	38	137	460
32	16	0	0	0	0	0	0	0	0	0	0	5	21

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	504	544	832	989	1270	1416	1538	1525	1328	1053	747	562	12308
55	62	49	170	304	557	726	825	812	638	348	147	68	4706
57	46	31	132	249	495	666	763	750	578	292	115	48	4165
60	28	15	84	174	402	576	670	657	488	215	74	28	3411
65	0	2	30	79	253	426	515	502	339	111	28	11	2296
70	0	0	8	23	127	277	360	347	199	43	9	0	1393

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	308	385	621	775	1040	1195	1306	1300	1118	834	536	369	308	693	1314	2089	3129	4324	5630	6930	8048	8882	9418	9787
45	194	261	471	625	885	1045	1151	1145	968	679	396	246	194	455	926	1551	2436	3481	4632	5777	6745	7424	7820	8066
50	113	164	328	478	730	895	996	990	818	524	270	147	113	277	605	1083	1813	2708	3704	4694	5512	6036	6306	6453
55	59	92	208	336	575	745	841	835	668	375	162	86	59	151	359	695	1270	2015	2856	3691	4359	4734	4896	4982
60	24	39	113	206	420	595	686	680	518	238	86	41	24	63	176	382	802	1397	2083	2763	3281	3519	3605	3646
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	199	248	394	509	711	818	895	880	762	556	351	238	199	447	841	1350	2061	2879	3774	4654	5416	5972	6323	6561

(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