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: D LO 2 SW, MS **COOP ID: 222385**

Climate Division: MS 8 **NWS Call Sign:** **Elevation: 335 Feet** **Lat: 31˚57N** **Lon: 89˚56W**

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	57.1	32.7	44.9	82	1957	29	54.7	1974	0+	1985	21	35.2	1977	631	0	.0	.0	22.4	.7	17.1	.1
Feb	61.7	35.4	48.6	85+	1962	14	55.0	1990	9+	1996	5	39.0	1978	460	0	.0	.0	23.0	.5	13.3	.0
Mar	69.6	42.7	56.2	90	1982	19	61.4	1974	14	1980	3	50.8	1996	291	17	.0	@	29.2	.0	5.7	.0
Apr	76.3	49.0	62.7	92	1987	22	68.7	1981	25	1987	4	58.3	1993	119	49	.0	.1	29.9	.0	.9	.0
May	83.0	58.3	70.7	96+	1962	29	74.3	1987	37	1970	4	65.8	1976	20	195	.0	2.2	31.0	.0	.0	.0
Jun	89.4	65.4	77.4	105+	1963	14	80.6	1998	44	1984	1	74.7	1974	0	373	.1	15.1	30.0	.0	.0	.0
Jul	91.9	68.9	80.4	104	1980	16	83.1	1980	46	1964	14	78.2	1971	0	476	.4	22.6	31.0	.0	.0	.0
Aug	91.8	67.7	79.8	105	2000	31	82.4	1999	49	1956	23	76.0	1992	0	456	.6	21.4	31.0	.0	.0	.0
Sep	87.3	61.9	74.6	105	2000	1	80.9	1980	33	1967	29	71.3	1975	7	293	.2	10.4	30.0	.0	.0	.0
Oct	78.3	48.6	63.5	97	1963	17	69.7	1984	26+	1955	26	56.7	1987	126	77	.0	1.0	31.0	.0	1.9	.0
Nov	68.5	40.6	54.6	89	1984	1	61.8	1985	14	1976	30	46.6	1976	330	16	.0	.0	28.6	.0	9.2	.0
Dec	60.1	34.6	47.4	83+	1956	8	57.0	1971	3+	1989	23	38.5	1989	554	8	.0	.0	24.6	.4	15.9	.0
Ann	76.3	50.5	63.4	105+	Sep 2000	1	83.1	Jul 1980	0+	Jan 1985	21	35.2	Jan 1977	2538	1960	1.3	72.8	341.7	1.6	64.0	.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: 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	5.88	5.69	8.85	1950	6	11.35	1979	1.07	1986
Feb	5.23	4.36	5.55	1990	16	12.41	1990	.95	2000
Mar	6.25	5.64	4.65	1961	31	12.91	1980	2.42	1978
Apr	6.08	5.07	6.61	1955	13	15.46	1991	.70	1976
May	5.29	5.40	5.15	1990	13	11.63	1991	.42	1998
Jun	4.25	3.46	4.37	1957	28	10.85	1989	.98	1984
Jul	5.12	4.47	5.62	1981	2	10.49	1977	1.85	1993
Aug	4.17	3.55	7.58	1948	9	10.42	1982	.99	1993
Sep	3.63	3.11	5.33	1971	17	8.19	1971	.11	1984
Oct	3.28	2.92	4.00	1964	5	11.60	1984	.13	1978
Nov	5.12	4.07	6.32	1988	20	10.00	1993	.63	1985
Dec	5.88	5.08	5.00	1982	4	13.48	1971	1.50	1980
Ann	60.18	59.82	8.85	Jan 1950	6	15.46	Apr 1991	.11	Sep 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	8.1	4.1	1.9
Feb	7.8	6.5	3.6	1.9
Mar	9.0	7.3	4.2	2.4
Apr	7.1	5.8	3.8	2.3
May	8.5	7.3	3.2	1.8
Jun	8.4	6.9	2.9	1.3
Jul	9.7	7.9	3.4	1.4
Aug	8.1	6.5	2.7	1.1
Sep	6.4	5.4	2.3	1.3
Oct	5.2	4.2	2.2	1.2
Nov	7.8	6.3	3.1	1.9
Dec	8.9	7.3	3.7	2.0
Ann	96.9	79.5	39.2	20.5

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	1.75	2.31	3.15	3.87	4.57	5.30	6.11	7.06	8.28	10.20	11.98
Feb	1.42	1.92	2.67	3.33	3.98	4.66	5.41	6.30	7.46	9.28	10.98
Mar	2.58	3.15	3.95	4.61	5.24	5.87	6.55	7.33	8.32	9.83	11.21
Apr	1.06	1.60	2.49	3.32	4.17	5.09	6.15	7.42	9.12	11.86	14.48
May	.86	1.32	2.09	2.81	3.56	4.38	5.32	6.46	7.98	10.45	12.82
Jun	1.38	1.79	2.38	2.89	3.37	3.87	4.43	5.07	5.90	7.19	8.38
Jul	2.02	2.49	3.16	3.72	4.25	4.78	5.36	6.03	6.87	8.17	9.36
Aug	1.11	1.51	2.11	2.64	3.16	3.70	4.31	5.03	5.97	7.43	8.81
Sep	.47	.76	1.27	1.78	2.31	2.91	3.59	4.44	5.59	7.46	9.28
Oct	.35	.60	1.05	1.51	2.00	2.55	3.20	4.00	5.10	6.91	8.68
Nov	1.32	1.80	2.55	3.20	3.85	4.53	5.29	6.19	7.36	9.21	10.95
Dec	2.22	2.77	3.56	4.21	4.83	5.46	6.15	6.95	7.96	9.52	10.95
Ann	44.46	47.54	51.47	54.44	57.06	59.59	62.19	65.05	68.52	73.52	77.82

\+ 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)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.3	.0	#	0	4.0	1982	14	4.0	1982	4	1982	14	#	1982	.1	.1	.1	.0	.0	@	@	.0	.0
Feb	.0	.0	#	0	.5	1985	2	.5	1985	1	1985	2	#+	1989	.1	.0	.0	.0	.0	@	.0	.0	.0
Mar	.2	.0	#	0	3.0	1993	13	3.0+	1993	3	1993	13	#	1993	.1	.1	.1	.0	.0	@	@	.0	.0
Apr	.1	.0	#	0	1.0	1987	3	1.0	1987	1	1987	3	#	1987	.1	.1	.0	.0	.0	@	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	0	0	#	1976	29	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1990	24	#+	1990	1	1997	15	#+	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	4.0	Jan 1982	14	4.0	Jan 1982	4	Jan 1982	14	#+	Dec 1997	.4	.3	.2	.0	.0	@	@	.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	4/22	4/17	4/14	4/11	4/08	4/05	4/02	3/29	3/24
32	4/13	4/08	4/04	4/01	3/30	3/27	3/24	3/20	3/16
28	3/24	3/19	3/15	3/12	3/09	3/06	3/02	2/26	2/21
24	3/14	3/06	3/01	2/24	2/20	2/15	2/11	2/05	1/29
20	3/10	3/01	2/22	2/16	2/10	2/04	1/29	1/21	1/05
16	2/17	2/08	2/01	1/25	1/16	1/02	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	10/06	10/11	10/14	10/17	10/20	10/22	10/25	10/29	11/02
32	10/11	10/17	10/22	10/26	10/30	11/02	11/06	11/11	11/17
28	10/27	11/02	11/06	11/10	11/13	11/17	11/21	11/25	12/01
24	11/10	11/17	11/23	11/27	12/02	12/06	12/11	12/16	12/24
20	11/18	11/30	12/09	12/17	12/24	1/01	1/09	1/20	2/09
16	12/10	12/20	12/28	1/04	1/13	1/28	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	211	205	201	198	194	191	187	183	177
32	234	227	222	217	213	209	204	199	192
28	275	266	260	254	249	244	238	232	223
24	312	302	296	290	284	279	273	266	256
20	>365	>365	329	316	307	300	292	284	273
16	>365	>365	>365	>365	>365	>365	331	322	314

***** 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	631	460	291	119	20	0	0	0	7	126	330	554	2538
60	487	328	173	46	3	0	0	0	1	57	211	411	1717
57	405	252	118	21	1	0	0	0	0	31	154	332	1314
55	354	207	87	11	0	0	0	0	0	19	122	284	1084
50	245	115	33	2	0	0	0	0	0	4	58	185	642
32	26	2	0	0	0	0	0	0	0	0	0	12	40

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	426	465	749	919	1198	1363	1499	1479	1277	974	676	488	11513
55	41	26	123	241	485	673	786	766	587	280	108	47	4163
57	29	16	92	191	423	613	724	704	527	229	80	33	3661
60	18	7	54	126	333	523	631	611	438	163	47	19	2970
65	0	0	17	49	195	373	476	456	293	77	16	8	1960
70	0	0	3	12	89	225	321	302	167	27	3	0	1149

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	222	293	514	684	954	1126	1255	1234	1037	721	440	272	222	515	1029	1713	2667	3793	5048	6282	7319	8040	8480	8752
45	132	187	370	535	799	976	1100	1079	887	567	307	173	132	319	689	1224	2023	2999	4099	5178	6065	6632	6939	7112
50	72	107	243	391	644	826	945	924	737	417	199	104	72	179	422	813	1457	2283	3228	4152	4889	5306	5505	5609
55	35	54	143	256	489	676	790	769	587	278	116	54	35	89	232	488	977	1653	2443	3212	3799	4077	4193	4247
60	12	22	67	145	336	526	635	614	440	164	56	28	12	34	101	246	582	1108	1743	2357	2797	2961	3017	3045
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	155	204	338	448	640	770	857	836	701	491	302	193	155	359	697	1145	1785	2555	3412	4248	4949	5440	5742	5935

(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