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: TYLERTOWN 2 WNW, MS **COOP ID: 229048**

Climate Division: MS 8 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 31˚07N** **Lon: 90˚10W**

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	60.1	38.8	49.5	83	1957	31	58.0	1974	3	1985	21	40.0	1977	496	0	.0	.0	25.8	.2	10.3	.0
Feb	64.3	41.6	53.0	85	1957	4	58.7	1990	9	1996	5	43.6	1978	344	6	.0	.0	25.5	.1	6.7	.0
Mar	71.3	48.0	59.7	88+	1955	11	65.3	1974	15	1980	3	54.8	1996	198	33	.0	.0	30.5	.0	2.7	.0
Apr	76.9	53.6	65.3	92	1987	21	70.9	1981	28	1987	4	60.7	1993	71	78	.0	.1	30.0	.0	.4	.0
May	83.4	61.8	72.6	102	1951	31	76.4	2000	37	1960	13	69.2	1976	5	241	.0	2.5	31.0	.0	.0	.0
Jun	89.2	67.9	78.6	105	1963	14	83.7	1998	48+	1954	5	76.2	1995	0	407	.2	14.7	30.0	.0	.0	.0
Jul	91.2	70.6	80.9	104	1980	15	84.0	1980	56	1967	15	78.5	1994	0	493	.7	22.3	31.0	.0	.0	.0
Aug	91.3	70.1	80.7	106	2000	30	84.8	1995	54+	1952	28	77.0	1992	0	487	.7	22.1	31.0	.0	.0	.0
Sep	87.5	65.9	76.7	103+	2000	2	81.4	1980	37	1967	29	73.5	1975	1	351	.3	11.0	30.0	.0	.0	.0
Oct	79.5	54.9	67.2	95	1963	9	73.3	1984	23	1952	30	61.6	1976	60	128	.0	1.3	31.0	.0	.1	.0
Nov	69.5	47.0	58.3	87	1950	1	65.2	1985	18+	1956	30	50.4	1976	236	33	.0	.0	29.3	.0	3.3	.0
Dec	62.4	41.1	51.8	82+	1948	16	61.2	1984	4	1989	23	43.3	1989	425	14	.0	.0	27.4	.2	9.2	.0
Ann	77.2	55.1	66.2	106	Aug 2000	30	84.8	Aug 1995	3	Jan 1985	21	40.0	Jan 1977	1836	2271	1.9	74.0	352.5	.5	32.7	.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

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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	6.76	6.20	6.38	1999	30	13.18	1990	1.14	1981
Feb	5.44	4.06	6.30	1961	21	13.32	1987	1.07	2000
Mar	6.24	5.81	6.34	1988	26	15.93	1980	2.44	1978
Apr	5.67	4.82	8.69	1983	7	18.21	1983	.64	1981
May	5.71	5.53	7.90	1960	5	13.94	1971	.07	2000
Jun	4.99	4.25	4.60	1957	19	13.34	1975	.84	1979
Jul	5.93	5.23	4.20	1979	12	17.81	1979	.56	1983
Aug	4.76	4.29	8.91	1953	22	10.06	1978	1.40	1971
Sep	4.05	3.68	3.63	1977	6	8.83	1971	.91	1990
Oct	3.86	3.20	4.75	1991	24	10.43	1984	.00	1978
Nov	4.85	4.93	4.55	1961	13	11.21	1992	.51	1985
Dec	5.48	4.70	5.53	1982	4	13.74	1971	2.24	1984
Ann	63.74	62.39	8.91	Aug 1953	22	18.21	Apr 1983	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.6	8.4	4.2	2.3
Feb	7.8	6.3	3.6	2.0
Mar	8.6	7.3	4.3	2.1
Apr	6.8	5.7	3.1	1.8
May	7.8	6.5	3.3	2.0
Jun	9.7	7.5	3.4	1.3
Jul	11.2	8.8	4.1	1.9
Aug	9.2	7.5	3.1	1.4
Sep	7.5	6.1	2.6	1.0
Oct	5.1	4.3	2.1	1.3
Nov	7.8	6.2	3.4	1.7
Dec	8.6	6.9	3.5	1.7
Ann	99.7	81.5	40.7	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	2.05	2.69	3.65	4.48	5.28	6.11	7.03	8.10	9.49	11.66	13.68
Feb	1.42	1.94	2.72	3.42	4.10	4.82	5.62	6.57	7.81	9.76	11.58
Mar	2.30	2.88	3.72	4.43	5.09	5.78	6.52	7.39	8.49	10.18	11.74
Apr	.97	1.46	2.29	3.07	3.86	4.73	5.72	6.92	8.53	11.12	13.60
May	.77	1.23	2.05	2.84	3.67	4.60	5.66	6.97	8.74	11.64	14.44
Jun	1.03	1.48	2.22	2.88	3.56	4.28	5.09	6.07	7.37	9.44	11.40
Jul	1.20	1.74	2.61	3.40	4.21	5.07	6.04	7.21	8.76	11.23	13.58
Aug	1.57	2.02	2.68	3.25	3.79	4.35	4.96	5.67	6.59	8.02	9.33
Sep	1.11	1.49	2.07	2.58	3.09	3.61	4.19	4.88	5.77	7.18	8.49
Oct	.36	.81	1.44	2.00	2.58	3.20	3.91	4.76	5.90	7.75	9.51
Nov	1.20	1.65	2.36	2.99	3.61	4.26	4.99	5.86	7.00	8.80	10.49
Dec	1.90	2.42	3.17	3.81	4.42	5.04	5.72	6.52	7.54	9.11	10.56
Ann	45.71	49.21	53.68	57.08	60.09	63.00	66.00	69.32	73.34	79.16	84.19

\+ 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	.2	.0	#	0
Feb	.1	.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	.1	.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	2.8	1977	31	2.8	1977	1+	1978	19	#+	1978
Feb	1.5	1973	9	1.5	1973	2	1973	9	#	1973
Mar	2.8	1993	13	2.8	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	1.3	1993	23	1.3	1993	#	1996	19	#	1996
Ann	2.8+	Mar 1993	13	2.8+	Mar 1993	2	Feb 1973	9	#+	Dec 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.0	.0	.0
Feb	.1	.1	.0	.0	.0
Mar	.1	.1	.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	.1	.1	.0	.0	.0
Ann	.5	.4	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	@	.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	.1	.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	4/16	4/11	4/07	4/04	4/01	3/28	3/25	3/21	3/16
32	4/08	4/02	3/28	3/25	3/21	3/17	3/14	3/09	3/03
28	3/20	3/12	3/07	3/03	2/26	2/22	2/18	2/12	2/05
24	3/07	2/26	2/20	2/14	2/09	2/04	1/29	1/23	1/14
20	2/28	2/18	2/11	2/04	1/28	1/21	1/11	0/00	0/00
16	2/01	1/20	1/08	12/21	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	10/18	10/24	10/28	11/01	11/04	11/07	11/11	11/15	11/21
32	10/31	11/05	11/09	11/13	11/16	11/19	11/23	11/27	12/03
28	11/11	11/18	11/23	11/28	12/02	12/06	12/10	12/15	12/23
24	11/27	12/06	12/12	12/18	12/23	12/28	1/02	1/09	1/18
20	12/02	12/15	12/25	1/03	1/12	1/22	2/04	0/00	0/00
16	12/22	1/04	1/15	1/30	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	240	232	226	221	217	212	207	201	194
32	264	255	249	244	240	235	230	224	215
28	306	296	289	283	278	272	266	259	250
24	350	334	326	319	313	307	301	294	284
20	>365	>365	>365	>365	>365	336	323	312	298
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	496	344	198	71	5	0	0	0	1	60	236	425	1836
60	363	219	103	20	0	0	0	0	0	19	138	293	1155
57	292	158	60	7	0	0	0	0	0	8	93	227	845
55	251	124	39	3	0	0	0	0	0	4	68	189	678
50	164	57	11	0	0	0	0	0	0	0	26	109	367
32	12	0	0	0	0	0	0	0	0	0	0	3	15

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	553	586	857	998	1259	1397	1516	1510	1340	1091	788	615	12510
55	79	66	184	311	546	707	803	797	650	382	166	88	4779
57	59	44	143	255	484	647	741	735	590	324	131	64	4217
60	37	22	92	178	391	557	648	642	500	242	86	37	3432
65	0	6	33	78	241	407	493	487	351	128	33	14	2271
70	0	0	8	21	114	257	338	332	208	50	11	2	1341

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	335	403	625	774	1026	1167	1278	1271	1108	851	558	391	335	738	1363	2137	3163	4330	5608	6879	7987	8838	9396	9787
45	220	281	477	624	871	1017	1123	1116	958	697	414	265	220	501	978	1602	2473	3490	4613	5729	6687	7384	7798	8063
50	129	175	333	474	716	867	968	961	808	542	280	164	129	304	637	1111	1827	2694	3662	4623	5431	5973	6253	6417
55	67	97	210	330	561	717	813	806	658	392	175	93	67	164	374	704	1265	1982	2795	3601	4259	4651	4826	4919
60	26	45	108	200	406	567	658	651	508	254	96	49	26	71	179	379	785	1352	2010	2661	3169	3423	3519	3568
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	207	252	401	509	707	813	886	870	768	566	353	240	207	459	860	1369	2076	2889	3775	4645	5413	5979	6332	6572

(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