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: RICHTON 3 SSE, MS **COOP ID: 227444**

Climate Division: MS 9 **NWS Call Sign:** **Elevation: 165 Feet** **Lat: 31˚18N** **Lon: 88˚54W**

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	59.4	34.8	47.1	81+	1982	20	57.2	1974	3	1985	21	37.0	1977	566	0	.0	.0	25.1	.2	15.0	.0
Feb	63.7	37.0	50.4	85	1962	14	55.6	1990	8	1996	5	41.9	1978	410	0	.0	.0	24.6	.3	11.1	.0
Mar	71.0	44.1	57.6	90	1982	19	62.9	1997	14	1980	3	52.0	1971	251	21	.0	@	30.2	.0	4.9	.0
Apr	77.4	49.7	63.6	94	1987	22	68.9	1981	26	1987	4	59.2	1993	99	55	.0	.1	30.0	.0	.7	.0
May	83.9	58.5	71.2	97	1996	25	74.9	2000	33	1971	4	67.2	1976	12	204	.0	4.2	31.0	.0	.0	.0
Jun	89.6	65.4	77.5	105+	1963	15	82.0	1998	43+	1984	1	74.9	1976	0	375	.3	16.5	30.0	.0	.0	.0
Jul	91.8	68.6	80.2	103	1980	15	83.0	1998	52+	1967	15	77.5	1994	0	471	.8	23.4	31.0	.0	.0	.0
Aug	91.6	67.8	79.7	102+	1986	1	82.6	1995	53+	1968	30	76.8	1992	0	457	.7	23.2	31.0	.0	.0	.0
Sep	87.8	62.9	75.4	100+	1972	16	80.7	1980	34	1967	30	72.1	1975	3	313	.2	13.2	30.0	.0	.0	.0
Oct	79.4	50.0	64.7	96	1998	3	71.1	1984	25+	1963	30	57.3	1987	106	96	.0	1.8	31.0	.0	1.0	.0
Nov	69.7	42.1	55.9	89	1995	2	63.7	1985	16+	1969	15	48.4	1976	297	22	.0	.0	29.2	.0	7.3	.0
Dec	61.8	36.3	49.1	83+	1998	6	57.9	1971	5+	1962	13	39.9	1989	505	9	.0	.0	26.5	.2	13.9	.0
Ann	77.3	51.4	64.4	105+	Jun 1963	15	83.0	Jul 1998	3	Jan 1985	21	37.0	Jan 1977	2249	2023	2.0	82.4	349.6	.7	53.9	.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: 1958-2001

(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	6.71	6.16	6.62	1993	21	11.47	1991	.82	1981
Feb	5.12	4.52	5.10	1961	18	10.85	1983	1.35+	2000
Mar	6.44	6.26	4.57	1991	2	13.41	1980	2.03	1982
Apr	5.07	4.31	9.64	1983	7	16.34	1983	.96+	1987
May	4.96	3.65	5.00	1990	13	15.93	1991	.38	1988
Jun	3.91	3.93	3.47	1959	1	8.18	1991	1.18	1986
Jul	6.07	5.37	3.45	1984	29	14.53	1979	1.56	1997
Aug	3.80	3.63	3.25	1969	18	7.69	1987	1.29	1989
Sep	4.63	3.53	4.77	1998	27	12.76	1985	.22	1984
Oct	2.92	2.37	3.46	1993	30	9.73	1985	.00	1978
Nov	5.11	4.76	4.10	1961	14	10.46	1979	.73	1981
Dec	4.99	4.37	6.50	1961	10	10.97	1971	.82	1980
Ann	59.73	58.33	9.64	Apr 1983	7	16.34	Apr 1983	.00	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	8.2	4.3	2.3
Feb	8.1	6.7	3.5	1.9
Mar	9.1	7.2	4.2	2.1
Apr	6.8	5.7	2.9	1.7
May	8.2	6.0	3.0	1.4
Jun	9.8	7.2	2.6	1.0
Jul	11.6	8.8	4.0	2.0
Aug	9.8	7.3	2.7	1.1
Sep	7.7	5.9	2.7	1.3
Oct	5.2	4.0	1.8	.9
Nov	8.3	6.5	3.5	1.7
Dec	8.8	6.6	3.3	1.6
Ann	103.8	80.1	38.5	19.0

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	2.29	2.92	3.85	4.63	5.38	6.16	7.00	7.98	9.25	11.20	13.00
Feb	1.56	2.05	2.78	3.40	4.00	4.63	5.32	6.14	7.18	8.82	10.34
Mar	2.81	3.38	4.19	4.85	5.46	6.08	6.75	7.51	8.48	9.94	11.27
Apr	.99	1.45	2.19	2.87	3.57	4.31	5.15	6.17	7.52	9.68	11.73
May	.62	1.01	1.72	2.41	3.14	3.95	4.90	6.06	7.65	10.24	12.76
Jun	1.31	1.69	2.23	2.69	3.13	3.58	4.08	4.66	5.40	6.56	7.62
Jul	1.94	2.52	3.37	4.09	4.80	5.52	6.32	7.25	8.45	10.32	12.05
Aug	1.16	1.52	2.06	2.53	2.98	3.44	3.95	4.56	5.34	6.55	7.67
Sep	.77	1.18	1.85	2.49	3.14	3.85	4.67	5.65	6.97	9.11	11.16
Oct	.11	.33	.75	1.17	1.64	2.17	2.80	3.59	4.68	6.50	8.29
Nov	1.50	1.99	2.71	3.34	3.96	4.60	5.30	6.13	7.21	8.89	10.45
Dec	1.81	2.28	2.95	3.52	4.06	4.61	5.21	5.91	6.80	8.18	9.44
Ann	43.00	46.25	50.41	53.56	56.36	59.06	61.84	64.92	68.64	74.03	78.69

\+ 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: 1958-2001
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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	.1	.0	0	0
Mar	.2	.0	#	0
Apr	.1	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.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
Ann	.7	.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	6.0	1977	4	1977	31	#	1977
Feb	3.0	1973	9	3.0	1973	0	0	0	0	0
Mar	4.0	1993	13	4.0	1993	#	2000	20	#	2000
Apr	2.0	1987	3	2.0	1987	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	#	1986	1	#	1986
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	#	1996	19	#	1996	1	1993	23	#+	1996
Ann	4.0+	Mar 1993	13	6.0	Jan 1977	4	Jan 1977	31	#+	Mar 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	@	.0	.0
Feb	@	@	@	.0	.0
Mar	@	@	@	.0	.0
Apr	.1	.1	.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	.0	.0
Ann	.2	.2	@	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	@	.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	.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	4/20	4/16	4/14	4/11	4/09	4/07	4/04	4/01	3/28
32	4/11	4/06	4/02	3/30	3/27	3/24	3/21	3/17	3/12
28	4/01	3/24	3/19	3/15	3/11	3/06	3/02	2/25	2/17
24	3/12	3/04	2/27	2/23	2/18	2/14	2/10	2/04	1/28
20	3/09	2/25	2/16	2/08	1/31	1/23	1/15	1/04	12/14
16	2/13	2/03	1/26	1/19	1/10	12/25	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	10/28	11/02
32	10/17	10/23	10/27	10/30	11/03	11/06	11/09	11/13	11/19
28	11/02	11/09	11/14	11/18	11/22	11/25	11/30	12/04	12/11
24	11/07	11/19	11/28	12/05	12/12	12/19	12/26	1/03	1/15
20	11/24	12/06	12/14	12/22	12/29	1/05	1/13	1/24	2/12
16	12/18	12/29	1/08	1/17	1/29	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	210	204	200	196	193	190	186	182	177
32	241	234	229	224	220	216	211	206	198
28	283	274	267	261	255	250	244	237	227
24	330	313	304	297	291	284	278	270	260
20	>365	>365	350	330	320	311	302	293	281
16	>365	>365	>365	>365	>365	>365	352	337	322

***** 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	566	410	251	99	12	0	0	0	3	106	297	505	2249
60	425	279	141	34	1	0	0	0	0	46	186	365	1477
57	348	206	91	14	0	0	0	0	0	24	133	289	1105
55	301	163	64	7	0	0	0	0	0	14	103	245	897
50	204	82	20	1	0	0	0	0	0	3	46	154	510
32	18	0	0	0	0	0	0	0	0	0	0	7	25

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	486	514	793	946	1215	1365	1494	1480	1300	1013	716	535	11857
55	56	33	143	263	502	675	781	767	610	314	129	60	4333
57	41	20	108	210	440	615	719	705	550	261	99	42	3810
60	25	9	65	140	348	525	626	612	460	191	61	24	3086
65	0	0	21	55	204	375	471	457	313	96	22	9	2023
70	0	0	5	13	91	227	316	302	179	37	6	0	1176

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	273	333	558	716	978	1136	1257	1239	1070	776	490	323	273	606	1164	1880	2858	3994	5251	6490	7560	8336	8826	9149
45	168	217	413	566	823	986	1102	1084	920	621	349	209	168	385	798	1364	2187	3173	4275	5359	6279	6900	7249	7458
50	93	125	279	419	668	836	947	929	770	466	229	125	93	218	497	916	1584	2420	3367	4296	5066	5532	5761	5886
55	49	66	163	278	513	686	792	774	620	322	137	67	49	115	278	556	1069	1755	2547	3321	3941	4263	4400	4467
60	19	26	83	163	359	536	637	619	470	199	72	30	19	45	128	291	650	1186	1823	2442	2912	3111	3183	3213
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	190	227	367	476	659	774	852	837	720	525	334	221	190	417	784	1260	1919	2693	3545	4382	5102	5627	5961	6182

(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