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: STATE UNIVERSITY, MS **COOP ID: 228374**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 185 Feet** **Lat: 33˚28N** **Lon: 88˚47W**

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	51.9	31.5	41.7	81+	1943	23	49.0	1974	-6	1985	21	30.7	1977	723	0	.0	.0	18.2	2.0	17.5	.1
Feb	57.2	34.9	46.1	88	1996	24	52.5	1976	-1	1951	3	34.9	1978	532	0	.0	.0	20.1	.9	12.0	.0
Mar	65.8	42.5	54.2	89	1932	20	60.1	1997	13	1996	9	48.8	1978	346	10	.0	.0	28.4	@	4.6	.0
Apr	73.9	49.7	61.8	93	1987	22	68.3	1981	26	2000	5	57.9	1997	140	43	.0	.2	29.9	.0	.7	.0
May	81.3	59.0	70.2	101	1962	25	74.5	1996	38	1944	7	63.9	1976	26	185	.0	2.5	31.0	.0	.0	.0
Jun	88.1	66.8	77.5	105+	1936	19	81.4	1998	41	1984	1	72.5	1974	0	374	.2	13.8	30.0	.0	.0	.0
Jul	91.3	70.6	81.0	111	1930	29	85.2	1980	53	1947	23	78.1	1972	0	494	1.3	21.5	31.0	.0	.0	.0
Aug	90.8	68.8	79.8	108	1930	8	84.1	2000	52	1946	31	75.4	1992	0	458	1.1	20.8	31.0	.0	.0	.0
Sep	85.3	62.6	74.0	109	2000	5	79.5	1980	40+	1967	29	68.4	1974	10	277	.3	9.2	30.0	.0	.0	.0
Oct	75.6	50.4	63.0	96+	1931	6	68.9	1971	27	1993	31	57.4	1976	130	67	.0	.8	30.9	.0	.4	.0
Nov	64.6	42.2	53.4	88	1935	4	59.1	1985	10	1950	25	44.6	1976	358	11	.0	.0	27.4	@	5.4	.0
Dec	55.3	34.6	45.0	82+	1951	6	53.6	1984	-8	1989	23	35.8	1989	623	1	.0	.0	22.0	.6	14.6	.1
Ann	73.4	51.1	62.3	111	Jul 1930	29	85.2	Jul 1980	-8	Dec 1989	23	30.7	Jan 1977	2888	1920	2.9	68.8	329.9	3.5	55.2	.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: 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	5.70	5.08	4.97	1950	6	13.55	1974	.71	1986
Feb	4.85	4.47	3.64	1946	9	10.17	1983	1.49	1972
Mar	6.07	5.56	6.70	1951	28	16.13	1980	2.34	1982
Apr	5.62	4.30	8.05	1979	13	16.47	1979	.54	1986
May	4.88	4.14	4.15	1983	16	12.21	1983	.33	1977
Jun	4.03	3.71	6.62	1947	2	9.61	1989	.26	1988
Jul	4.35	4.20	5.50	1931	24	12.39	1979	.63	2000
Aug	3.33	3.36	3.00	1947	13	6.93	1991	.55	2000
Sep	3.48	2.74	4.20	1932	1	10.37	1979	.21	1984
Oct	3.35	2.64	4.85	1932	16	9.40	1985	.20	1987
Nov	4.66	4.44	3.70	1961	13	9.80	2000	1.39	1985
Dec	5.13	4.36	5.90	1983	3	13.67	1982	.85	1980
Ann	55.45	54.62	8.05	Apr 1979	13	16.47	Apr 1979	.20	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.8	8.3	4.0	1.7
Feb	8.7	6.3	3.3	1.9
Mar	9.9	7.5	3.7	2.2
Apr	8.1	6.1	3.4	1.8
May	9.3	7.1	3.4	1.8
Jun	9.6	7.2	3.0	1.0
Jul	10.0	7.0	3.3	1.2
Aug	8.0	5.5	2.3	.9
Sep	7.6	5.3	2.4	.9
Oct	6.4	4.2	2.2	1.2
Nov	9.7	7.2	3.4	1.5
Dec	10.6	7.3	3.6	1.6
Ann	109.7	79.0	38.0	17.7

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	1.57	2.11	2.93	3.65	4.35	5.08	5.90	6.86	8.11	10.08	11.91
Feb	1.56	2.02	2.70	3.28	3.84	4.42	5.05	5.79	6.75	8.24	9.62
Mar	2.06	2.63	3.47	4.18	4.86	5.57	6.33	7.23	8.37	10.15	11.79
Apr	.88	1.36	2.17	2.95	3.75	4.63	5.64	6.87	8.52	11.20	13.76
May	.87	1.30	2.01	2.68	3.36	4.09	4.93	5.95	7.31	9.50	11.58
Jun	1.11	1.49	2.07	2.58	3.08	3.60	4.18	4.86	5.75	7.14	8.45
Jul	1.00	1.41	2.04	2.61	3.19	3.79	4.47	5.28	6.34	8.03	9.63
Aug	.65	.95	1.44	1.89	2.34	2.83	3.39	4.06	4.94	6.36	7.71
Sep	.50	.79	1.29	1.77	2.27	2.83	3.47	4.25	5.31	7.03	8.69
Oct	.39	.64	1.11	1.58	2.08	2.63	3.28	4.09	5.18	6.99	8.74
Nov	1.70	2.14	2.77	3.30	3.80	4.31	4.88	5.53	6.36	7.64	8.82
Dec	1.36	1.85	2.59	3.24	3.89	4.56	5.31	6.19	7.35	9.17	10.86
Ann	36.77	40.29	44.85	48.35	51.48	54.53	57.70	61.22	65.51	71.79	77.26

\+ 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

Complete documentation available from:
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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	.9	.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
Dec	.0	.0	0	0
Ann	.9	.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	2000	28	4.0+	2000	4	2000	28	#+	2000
Feb	.1	1985	12	.1+	1985	#	1989	24	#	1989
Mar	.3	1983	24	.3	1983	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	#	1995	12	#	1995	#	1995	12	#	1995
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	4.0	Jan 2000	28	4.0+	Jan 2000	4	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	.4	.4	.1	.0	.0
Feb	.1	.0	.0	.0	.0
Mar	.1	.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	.0
Dec	.0	.0	.0	.0	.0
Ann	.6	.4	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	.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	.2	@	.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	4/13	4/10	4/07	4/05	4/02	3/30	3/26
32	4/12	4/06	4/01	3/28	3/24	3/20	3/16	3/12	3/05
28	3/28	3/21	3/15	3/10	3/06	3/02	2/25	2/19	2/12
24	3/16	3/08	3/02	2/25	2/21	2/16	2/12	2/06	1/29
20	3/04	2/24	2/18	2/13	2/08	2/03	1/29	1/22	1/12
16	2/23	2/13	2/06	1/30	1/24	1/17	1/09	12/24	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	10/08	10/13	10/17	10/21	10/24	10/27	10/30	11/03	11/09
32	10/24	10/29	11/02	11/05	11/08	11/11	11/14	11/18	11/23
28	11/04	11/10	11/14	11/18	11/21	11/25	11/28	12/02	12/08
24	11/12	11/21	11/27	12/03	12/08	12/14	12/19	12/26	1/04
20	11/22	12/03	12/12	12/19	12/25	1/01	1/08	1/17	1/31
16	12/10	12/19	12/26	1/01	1/07	1/13	1/21	2/05	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	217	211	206	202	199	195	191	186	180
32	256	247	240	234	228	223	217	210	201
28	289	279	272	265	260	254	248	240	230
24	320	310	302	296	290	284	277	269	259
20	>365	350	332	322	314	307	300	292	280
16	>365	>365	>365	>365	357	340	328	315	301

***** 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	723	532	346	140	26	0	0	0	10	130	358	623	2888
60	579	400	215	60	5	0	0	0	2	57	232	479	2029
57	493	323	153	30	1	0	0	0	0	30	171	396	1597
55	438	275	118	17	0	0	0	0	0	18	136	343	1345
50	312	174	52	3	0	0	0	0	0	4	67	230	842
32	44	9	0	0	0	0	0	0	0	0	0	20	73

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	344	401	687	893	1182	1364	1517	1481	1257	960	643	421	11150
55	24	24	91	220	469	674	804	768	567	265	88	32	4026
57	17	16	65	173	409	614	742	706	507	215	63	22	3549
60	11	8	34	113	319	524	649	613	418	149	35	13	2886
65	0	0	10	43	185	374	494	458	277	67	11	1	1920
70	0	0	0	11	85	229	339	305	157	22	1	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	169	251	467	672	956	1143	1289	1254	1037	732	425	223	169	420	887	1559	2515	3658	4947	6201	7238	7970	8395	8618
45	91	159	332	525	801	993	1134	1099	887	578	292	135	91	250	582	1107	1908	2901	4035	5134	6021	6599	6891	7026
50	45	88	208	380	646	843	979	944	737	426	185	71	45	133	341	721	1367	2210	3189	4133	4870	5296	5481	5552
55	23	41	115	246	492	693	824	789	587	286	101	34	23	64	179	425	917	1610	2434	3223	3810	4096	4197	4231
60	2	14	52	143	338	543	669	634	438	165	48	7	2	16	68	211	549	1092	1761	2395	2833	2998	3046	3053
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	104	160	283	425	637	790	889	859	703	474	254	137	104	264	547	972	1609	2399	3288	4147	4850	5324	5578	5715

(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