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: SAUCIER EXP FOREST, MS **COOP ID: 227840**

Climate Division: MS10 **NWS Call Sign:** **Elevation: 229 Feet** **Lat: 30˚38N** **Lon: 89˚03W**

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	62.0	40.6	51.3	81+	1957	28	61.7	1974	4	1985	21	42.7	1978	444	3	.0	.0	27.3	@	7.5	.0
Feb	65.9	43.3	54.6	84+	1957	4	59.9	1990	11	1996	5	45.9	1978	300	8	.0	.0	26.3	@	4.5	.0
Mar	72.6	49.7	61.2	88	1967	15	66.4	1997	19	1980	3	56.8	1996	159	38	.0	.0	30.8	.0	1.2	.0
Apr	78.3	55.2	66.8	94	1987	21	72.1	1999	30	1987	3	62.6	1993	47	100	.0	.3	30.0	.0	.2	.0
May	84.7	62.8	73.8	96+	1956	22	77.0	1998	43+	1960	13	70.5	1976	1	273	.0	3.6	31.0	.0	.0	.0
Jun	89.9	68.6	79.3	102	1969	29	82.9	1998	52+	1966	1	76.2	1983	0	428	.1	16.3	30.0	.0	.0	.0
Jul	91.6	71.0	81.3	104	2000	16	84.1	2000	57	1967	15	79.0	1972	0	506	.6	22.8	31.0	.0	.0	.0
Aug	91.0	70.8	80.9	101+	1954	29	84.6	1999	59+	1956	22	78.9	1992	0	494	.3	21.9	31.0	.0	.0	.0
Sep	87.2	67.0	77.1	99	1954	10	81.3	1980	40	1967	29	73.9	1975	0	363	.0	10.1	30.0	.0	.0	.0
Oct	79.9	56.9	68.4	93	1962	8	73.1	1984	29	1993	31	63.2	1976	39	144	.0	.9	31.0	.0	.1	.0
Nov	70.8	48.9	59.9	86	1985	19	66.1	1985	22	1976	30	52.0	1976	197	43	.0	.0	29.6	.0	1.2	.0
Dec	64.3	42.8	53.6	82+	1991	1	61.4	1971	7	1989	23	45.7	1989	370	15	.0	.0	28.4	.1	5.6	.0
Ann	78.2	56.5	67.4	104	Jul 2000	16	84.6	Aug 1999	4	Jan 1985	21	42.7	Jan 1978	1557	2415	1.0	75.9	356.4	.1	20.3	.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: 1954-2001

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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	6.61	5.23	6.54	1993	21	19.65	1991	1.35	1981
Feb	5.61	5.28	6.31	1981	10	11.64	1981	1.19	1989
Mar	7.12	6.39	6.40	1987	18	15.78	1980	2.62	1981
Apr	5.18	4.48	7.47	1955	10	12.35	1980	.80	1999
May	6.45	5.62	10.77	1995	9	18.15	1991	.49	2000
Jun	5.35	4.61	7.35	2001	11	17.77	1983	1.21	1977
Jul	7.40	6.32	4.53	1959	19	16.30	1979	3.07+	1990
Aug	6.73	5.85	6.22	1969	18	23.15	1987	1.36	1989
Sep	6.17	4.56	14.05	1998	28	26.53	1998	.62	1982
Oct	3.03	2.81	6.88	1967	30	13.37	1985	.00	1978
Nov	5.28	4.55	6.13	1997	29	13.69	1992	.27	1999
Dec	5.24	4.76	7.13	1995	18	13.29	1983	1.33	1980
Ann	70.17	70.18	14.05	Sep 1998	28	26.53	Sep 1998	.00	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.7	3.9	2.0
Feb	8.7	6.6	3.5	1.8
Mar	9.6	7.0	4.1	2.5
Apr	6.9	5.0	2.9	1.8
May	8.5	6.4	3.4	2.0
Jun	11.1	7.6	3.6	1.8
Jul	14.5	10.5	4.5	2.3
Aug	13.0	9.5	4.3	2.0
Sep	10.1	7.1	3.6	1.7
Oct	5.9	4.0	1.9	1.1
Nov	9.1	6.4	3.4	1.7
Dec	9.4	6.1	3.2	1.6
Ann	117.9	83.9	42.3	22.3

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	2.18	3.15	4.01	4.87	5.78	6.80	8.01	9.60	12.12	14.49
Feb	1.24	1.76	2.58	3.33	4.07	4.86	5.75	6.81	8.21	10.45	12.55
Mar	3.06	3.71	4.61	5.34	6.03	6.72	7.47	8.33	9.41	11.06	12.55
Apr	.93	1.39	2.15	2.85	3.57	4.35	5.24	6.32	7.75	10.05	12.25
May	.94	1.48	2.41	3.31	4.24	5.26	6.43	7.88	9.81	12.97	16.01
Jun	1.39	1.89	2.67	3.35	4.03	4.74	5.52	6.46	7.68	9.61	11.41
Jul	2.75	3.44	4.44	5.27	6.06	6.86	7.74	8.76	10.06	12.06	13.89
Aug	1.87	2.51	3.48	4.33	5.15	6.02	6.98	8.11	9.58	11.88	14.03
Sep	.59	1.03	1.87	2.73	3.66	4.72	5.96	7.52	9.66	13.22	16.70
Oct	.06	.23	.61	1.03	1.51	2.08	2.77	3.67	4.92	7.07	9.21
Nov	.92	1.38	2.15	2.88	3.62	4.42	5.33	6.44	7.92	10.31	12.60
Dec	1.74	2.23	2.96	3.58	4.18	4.79	5.47	6.25	7.27	8.83	10.28
Ann	49.00	53.07	58.30	62.28	65.83	69.26	72.81	76.74	81.51	88.45	94.46

\+ 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: 1954-2001
(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	.0	.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	.0	.0	0	0
Ann	.2	.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	.1	1973	12	.1	1973	1	1973	12	#	1973
Feb	1.5	1973	9	1.5	1973	#	1988	6	#	1988
Mar	2.0	1993	13	2.0	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	.0	0	0	.0	0	0	0	0	0	0
Ann	2.0	Mar 1993	13	2.0	Mar 1993	1	Jan 1973	12	#+	Feb 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.0	.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	@	.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	4/06	3/31	3/26	3/22	3/18	3/15	3/11	3/06	2/28
32	3/24	3/16	3/11	3/06	3/01	2/25	2/20	2/14	2/06
28	3/14	3/05	2/27	2/21	2/16	2/11	2/05	1/29	1/20
24	3/03	2/21	2/14	2/07	2/01	1/25	1/18	1/07	0/00
20	2/19	2/09	2/01	1/24	1/16	1/03	0/00	0/00	0/00
16	1/14	12/31	0/00	0/00	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	10/28	11/02	11/06	11/09	11/13	11/16	11/19	11/23	11/29
32	11/04	11/12	11/17	11/21	11/26	11/30	12/05	12/10	12/17
28	11/20	11/29	12/06	12/12	12/17	12/22	12/28	1/03	1/13
24	11/30	12/12	12/21	12/29	1/05	1/13	1/21	2/02	0/00
20	12/19	12/30	1/08	1/16	1/25	2/07	0/00	0/00	0/00
16	1/03	1/19	0/00	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	265	256	249	244	238	233	228	221	212
32	300	289	282	275	269	263	256	248	238
28	336	320	312	305	299	294	288	281	271
24	>365	>365	>365	342	330	322	314	306	296
20	>365	>365	>365	>365	>365	>365	364	335	314
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	444	300	159	47	1	0	0	0	0	39	197	370	1557
60	316	181	72	10	0	0	0	0	0	9	109	243	940
57	250	126	37	3	0	0	0	0	0	3	68	181	668
55	213	96	22	1	0	0	0	0	0	2	48	147	529
50	132	38	4	0	0	0	0	0	0	0	16	74	264
32	7	0	0	0	0	0	0	0	0	0	0	0	7

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	605	632	902	1043	1295	1418	1529	1517	1353	1129	836	668	12927
55	97	84	211	354	582	728	816	804	663	417	194	102	5052
57	73	58	164	296	520	668	754	742	603	357	155	74	4464
60	46	29	106	213	427	578	661	649	513	270	105	43	3640
65	3	8	38	100	273	428	506	494	363	144	43	15	2415
70	2	0	9	30	133	278	351	339	217	55	14	3	1431

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	379	446	669	812	1060	1191	1299	1284	1127	893	610	444	379	825	1494	2306	3366	4557	5856	7140	8267	9160	9770	10214
45	256	318	516	662	905	1041	1144	1129	977	738	462	309	256	574	1090	1752	2657	3698	4842	5971	6948	7686	8148	8457
50	155	203	372	514	750	891	989	974	827	583	326	193	155	358	730	1244	1994	2885	3874	4848	5675	6258	6584	6777
55	79	112	235	367	595	741	834	819	677	429	207	107	79	191	426	793	1388	2129	2963	3782	4459	4888	5095	5202
60	35	50	128	229	440	591	679	664	527	285	117	53	35	85	213	442	882	1473	2152	2816	3343	3628	3745	3798
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	229	270	419	531	736	828	898	896	789	596	379	269	229	499	918	1449	2185	3013	3911	4807	5596	6192	6571	6840

(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