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: ROLLING FORK, MS **COOP ID: 227560**

Climate Division: MS 4 **NWS Call Sign:** **Elevation: 105 Feet** **Lat: 32˚54N** **Lon: 90˚53W**

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	52.9	33.0	43.0	78+	1975	29	49.6	1989	4	1977	19	32.9	1977	685	0	.0	.0	19.0	1.9	15.9	.0
Feb	58.5	36.1	47.3	84	1977	26	55.7	1976	8+	1996	3	37.2	1978	496	0	.0	.0	20.8	.8	10.3	.0
Mar	66.9	44.0	55.5	89	1998	31	61.0	1974	14	1996	9	50.8	1971	308	12	.0	.0	28.8	@	3.4	.0
Apr	75.1	51.7	63.4	94	1987	22	70.7	1981	27	1990	7	57.5	1983	123	74	.0	.3	29.9	.0	.4	.0
May	83.0	61.0	72.0	97	1996	27	76.3	1996	41	1992	9	66.8	1976	17	233	.0	5.2	31.0	.0	.0	.0
Jun	89.7	68.2	79.0	103	1988	30	82.3	1998	49	1984	1	75.1	1974	0	418	.1	17.4	30.0	.0	.0	.0
Jul	92.4	71.4	81.9	104+	1980	14	85.5	1980	58+	1985	28	79.3	1972	0	524	1.1	24.4	31.0	.0	.0	.0
Aug	92.3	69.3	80.8	106	2000	31	85.3	2000	51	1986	31	77.2	1992	0	489	1.3	23.3	31.0	.0	.0	.0
Sep	87.2	63.0	75.1	106	2000	1	80.2	1998	40+	1983	22	70.0	1974	6	310	.5	13.3	30.0	.0	.0	.0
Oct	78.0	51.3	64.7	97	1998	3	69.1	1973	25+	1989	20	59.0	1976	97	86	.0	2.0	31.0	.0	.2	.0
Nov	65.9	42.5	54.2	89	2000	2	59.9	1978	11	1976	30	46.5	1976	336	11	.0	.0	27.9	@	5.0	.0
Dec	56.4	35.5	46.0	83	1982	3	56.2	1984	-2+	1989	23	35.0	1989	596	5	.0	.0	21.8	.9	13.2	.1
Ann	74.9	52.3	63.6	106+	Sep 2000	1	85.5	Jul 1980	-2+	Dec 1989	23	32.9	Jan 1977	2664	2162	3.0	85.9	332.2	3.6	48.4	.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	5.76	4.71	5.85	1949	3	13.24	1999	.45	1986
Feb	4.64	5.03	4.60	1966	10	8.48	1983	1.39	1986
Mar	6.17	5.81	4.39	1984	5	14.23	1980	1.67	1978
Apr	5.62	4.49	6.22	1991	29	22.78	1991	1.05	1976
May	5.26	5.08	4.90	1993	1	11.59	1983	.78	1977
Jun	4.30	3.79	3.82	1989	4	11.37	1989	.73	1988
Jul	4.03	4.04	4.00	1993	13	8.41	1994	.36	1986
Aug	2.67	1.95	4.30	1992	27	8.65	1992	.03	1980
Sep	3.00	3.12	3.83	1964	29	5.85	1977	.36	1980
Oct	3.92	3.13	3.60	1984	21	10.43	1984	.10	1978
Nov	4.88	4.26	6.78	1948	19	9.76	1973	1.07	1981
Dec	5.67	4.88	5.60	1998	12	13.09	1998	.65	1980
Ann	55.92	56.32	6.78	Nov 1948	19	22.78	Apr 1991	.03	Aug 1980

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.3	7.5	4.0	1.6
Feb	8.9	6.4	3.3	1.6
Mar	10.0	7.3	3.9	2.2
Apr	7.8	5.7	3.7	2.2
May	9.8	7.0	3.5	1.8
Jun	8.3	5.8	2.8	1.6
Jul	9.0	5.7	2.8	1.1
Aug	6.6	4.2	1.8	.7
Sep	6.5	4.1	1.9	1.0
Oct	6.9	4.8	2.4	1.6
Nov	9.1	6.4	3.3	1.6
Dec	10.3	7.0	4.0	2.2
Ann	104.5	71.9	37.4	19.2

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	1.26	1.79	2.63	3.40	4.16	4.97	5.89	6.99	8.44	10.74	12.92
Feb	1.42	1.86	2.52	3.08	3.63	4.20	4.82	5.56	6.51	7.99	9.36
Mar	2.47	3.04	3.84	4.51	5.14	5.77	6.46	7.26	8.27	9.82	11.22
Apr	1.23	1.75	2.57	3.31	4.06	4.85	5.75	6.82	8.23	10.48	12.60
May	1.17	1.66	2.43	3.12	3.82	4.56	5.39	6.39	7.70	9.79	11.76
Jun	.88	1.27	1.91	2.48	3.06	3.69	4.39	5.23	6.35	8.14	9.83
Jul	.77	1.14	1.73	2.27	2.83	3.42	4.10	4.91	5.99	7.73	9.38
Aug	.13	.27	.58	.93	1.34	1.83	2.43	3.21	4.30	6.18	8.06
Sep	.84	1.12	1.55	1.93	2.30	2.68	3.11	3.61	4.26	5.29	6.25
Oct	.45	.75	1.30	1.85	2.43	3.08	3.84	4.79	6.07	8.19	10.25
Nov	1.44	1.90	2.60	3.20	3.79	4.39	5.07	5.86	6.88	8.48	9.96
Dec	1.44	1.97	2.80	3.53	4.25	5.01	5.85	6.86	8.17	10.24	12.18
Ann	39.31	42.51	46.62	49.74	52.52	55.21	57.99	61.06	64.80	70.22	74.92

\+ 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	.4	.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
Dec	.1	.0	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	4.0	1971	8	4.0	1971	4	1971	8	#+	1982
Feb	#	1979	17	#+	1979	0	0	0	0	0
Mar	.0	0	0	.0	0	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	#	1976	29	#	1976	0	0	0	0	0
Dec	1.0	1973	21	1.0	1973	0	0	0	0	0
Ann	4.0	Jan 1971	8	4.0	Jan 1971	4	Jan 1971	8	#+	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.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	.1	.1	.0	.0	.0
Ann	.3	.2	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	@	.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

+ 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	4/12	4/07	4/03	3/31	3/29	3/26	3/23	3/19	3/15
32	4/05	3/29	3/24	3/19	3/15	3/11	3/06	3/01	2/22
28	3/21	3/14	3/08	3/04	2/28	2/24	2/19	2/14	2/07
24	3/09	2/27	2/20	2/15	2/09	2/04	1/29	1/22	1/13
20	2/28	2/17	2/09	2/01	1/25	1/16	1/05	0/00	0/00
16	2/08	1/26	1/13	12/25	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	10/12	10/18	10/23	10/27	10/31	11/04	11/08	11/13	11/20
32	10/28	11/02	11/06	11/09	11/12	11/15	11/18	11/22	11/27
28	11/04	11/11	11/16	11/20	11/24	11/28	12/02	12/07	12/14
24	11/16	11/26	12/03	12/09	12/14	12/20	12/26	1/01	1/11
20	12/05	12/15	12/24	12/31	1/07	1/15	1/26	0/00	0/00
16	12/18	12/31	1/11	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	216	211	206	200	192
32	269	260	253	247	241	236	230	223	214
28	299	289	281	275	269	262	256	248	238
24	348	329	319	311	304	297	290	281	270
20	>365	>365	>365	>365	349	334	323	312	299
16	>365	>365	>365	>365	>365	>365	>365	>365	358

***** 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	685	496	308	123	17	0	0	0	6	97	336	596	2664
60	538	366	183	53	4	0	0	0	0	37	212	453	1846
57	452	292	125	27	1	0	0	0	0	17	153	371	1438
55	396	246	93	16	0	0	0	0	0	9	119	321	1200
50	272	151	36	3	0	0	0	0	0	1	56	215	734
32	27	6	0	0	0	0	0	0	0	0	0	18	51

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	366	434	727	941	1239	1408	1547	1512	1293	1012	665	450	11594
55	22	30	107	267	526	718	834	799	603	308	95	41	4350
57	15	19	78	218	465	658	772	737	543	253	68	29	3855
60	9	10	43	154	374	568	679	644	454	181	37	17	3170
65	0	0	12	74	233	418	524	489	310	86	11	5	2162
70	0	0	1	25	120	269	369	335	182	30	1	0	1332

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	195	280	501	714	1003	1181	1310	1277	1064	777	451	249	195	475	976	1690	2693	3874	5184	6461	7525	8302	8753	9002
45	112	181	360	565	848	1031	1155	1122	914	624	318	153	112	293	653	1218	2066	3097	4252	5374	6288	6912	7230	7383
50	59	104	234	420	693	881	1000	967	764	472	204	87	59	163	397	817	1510	2391	3391	4358	5122	5594	5798	5885
55	28	54	136	281	538	731	845	812	614	327	121	44	28	82	218	499	1037	1768	2613	3425	4039	4366	4487	4531
60	6	20	66	169	386	581	690	657	465	200	58	18	6	26	92	261	647	1228	1918	2575	3040	3240	3298	3316
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	120	177	306	452	678	810	898	868	716	506	275	153	120	297	603	1055	1733	2543	3441	4309	5025	5531	5806	5959

(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