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: ABERDEEN, MS **COOP ID: 220021**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 33˚50N** **Lon: 88˚31W**

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	51.4	31.1	41.3	85	1952	1	49.3	1974	-7	1963	24	30.3	1977	737	0	.0	.0	18.9	1.4	15.8	@
Feb	56.7	34.0	45.4	87	1996	24	53.2	1990	-2	1951	2	34.9	1978	550	0	.0	.0	21.5	.5	10.6	.0
Mar	65.6	40.8	53.2	88	1963	31	58.5	1973	14+	1980	3	47.1	1978	375	9	.0	.0	29.4	@	4.2	.0
Apr	73.7	48.6	61.2	94+	1972	15	67.1	1999	28+	1987	4	55.6	1983	152	36	.0	.3	30.0	.0	.8	.0
May	80.8	57.7	69.3	96+	1963	16	74.0	1996	35	1976	4	63.5	1976	34	166	.0	2.8	31.0	.0	.0	.0
Jun	87.5	65.5	76.5	105	1952	28	80.9	1998	45	1956	3	71.7	1974	1	345	.2	13.2	30.0	.0	.0	.0
Jul	91.1	69.7	80.4	108+	1952	28	84.8	1980	53	1967	15	77.5	1972	0	477	.9	21.3	31.0	.0	.0	.0
Aug	90.3	68.5	79.4	107	1954	8	84.2	2000	50+	1967	29	75.4	1992	0	447	.9	19.7	31.0	.0	.0	.0
Sep	84.4	62.3	73.4	106	1951	1	78.9	1998	37+	1967	29	68.1	1974	11	262	.1	7.4	30.0	.0	.0	.0
Oct	74.8	49.5	62.2	98+	1953	1	67.2	1984	23	1952	30	56.4	1976	150	61	.0	.4	30.9	.0	.4	.0
Nov	64.1	40.3	52.2	87	2000	1	58.4	1985	7	1950	25	44.4	1976	390	7	.0	.0	28.2	@	6.0	.0
Dec	55.3	33.9	44.6	84	1998	6	53.4	1984	-5	1983	26	35.1	2000	633	0	.0	.0	22.9	.5	13.6	.1
Ann	73.0	50.2	61.6	108+	Jul 1952	28	84.8	Jul 1980	-7	Jan 1963	24	30.3	Jan 1977	3033	1810	2.1	65.1	334.8	2.4	51.4	.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

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: ABERDEEN, MS **COOP ID: 220021**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 33˚50N** **Lon: 88˚31W**

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	5.37	4.32	5.42	1950	6	11.94	1974	.97	1986
Feb	4.66	4.37	4.64	1950	14	9.29	1971	1.60	1972
Mar	6.19	5.04	7.14	1973	16	17.27	1980	2.25	1986
Apr	5.32	4.79	4.02	1995	23	13.00	1991	.62	1976
May	5.42	4.81	5.60	1991	27	17.46	1991	.74	1996
Jun	4.30	3.84	5.51	1971	19	9.10	1989	.00	1988
Jul	3.87	3.74	3.90	1982	1	10.71	1998	.25	1993
Aug	2.88	2.90	4.20	1950	30	6.02	1992	.15	1983
Sep	3.70	3.92	3.48	1948	5	8.64	1979	.55	1984
Oct	3.75	3.63	4.05	1984	22	13.22	1984	.29	2000
Nov	4.74	4.33	3.75	2000	9	9.28	2000	.67	1985
Dec	5.28	4.28	5.80	1983	3	13.22	1983	.92	1980
Ann	55.48	56.32	7.14	Mar 1973	16	17.46	May 1991	.00	Jun 1988

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.0	8.4	3.6	1.8
Feb	8.9	6.9	3.5	1.6
Mar	9.5	7.4	4.1	2.2
Apr	8.0	6.3	3.2	1.9
May	9.4	7.5	3.5	1.7
Jun	9.5	7.3	3.2	1.3
Jul	8.6	6.6	2.6	1.1
Aug	6.5	4.7	2.2	.8
Sep	7.4	5.7	2.5	1.1
Oct	6.5	4.8	2.4	1.1
Nov	8.8	7.2	3.3	1.5
Dec	9.6	7.5	3.5	1.8
Ann	103.7	80.3	37.6	17.9

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	1.45	1.96	2.74	3.42	4.08	4.78	5.56	6.47	7.67	9.54	11.29
Feb	1.60	2.04	2.68	3.23	3.75	4.28	4.87	5.55	6.43	7.78	9.03
Mar	2.32	2.90	3.73	4.42	5.07	5.75	6.47	7.32	8.39	10.04	11.56
Apr	.88	1.34	2.11	2.84	3.59	4.41	5.35	6.49	8.01	10.48	12.85
May	1.15	1.65	2.45	3.17	3.90	4.67	5.54	6.59	7.97	10.18	12.26
Jun	1.20	1.82	2.51	3.04	3.54	4.04	4.57	5.19	5.98	7.19	8.29
Jul	.51	.82	1.37	1.91	2.47	3.10	3.83	4.73	5.94	7.92	9.84
Aug	.50	.76	1.18	1.57	1.97	2.41	2.91	3.51	4.31	5.61	6.85
Sep	.88	1.23	1.77	2.25	2.73	3.23	3.80	4.48	5.36	6.76	8.08
Oct	.59	.92	1.46	1.98	2.51	3.09	3.76	4.57	5.66	7.43	9.13
Nov	1.37	1.82	2.50	3.09	3.66	4.26	4.91	5.69	6.70	8.27	9.74
Dec	1.26	1.75	2.52	3.21	3.90	4.62	5.43	6.40	7.66	9.67	11.55
Ann	37.33	40.76	45.20	48.60	51.64	54.59	57.66	61.06	65.20	71.25	76.52

\+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: ABERDEEN, MS **COOP ID: 220021**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 33°50N** **Lon: 88°31W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.5	.0	#	0
Feb	.2	#	#	0
Mar	.2	.0	#	0
Apr	#	.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	.0	#	#	0
Ann	.9	#	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	3.0	1971	8	3.0	1971	4	1982	13	1	1988
Feb	1.5	1971	13	2.5	1971	5	1985	4	2	1985
Mar	2.0	1984	11	2.3	1984	1	1980	2	#	1980
Apr	#	1987	3	#	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	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	#	1974	15	#	1974	0	0	0	0	0
Dec	.1	1983	16	.1	1983	#	1982	12	#	1982
Ann	3.0	Jan 1971	8	3.0	Jan 1971	5	Feb 1985	4	2	Feb 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.2	.1	.0	.0
Feb	.1	.1	.0	.0	.0
Mar	.2	.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	.0	.0	.0	.0
Ann	.8	.4	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	@	.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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: ABERDEEN, MS **COOP ID: 220021**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 33˚50N** **Lon: 88˚31W**

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	4/25	4/20	4/16	4/13	4/10	4/07	4/04	4/01	3/26
32	4/13	4/07	4/03	3/30	3/26	3/23	3/19	3/15	3/09
28	3/24	3/16	3/11	3/07	3/02	2/26	2/22	2/17	2/09
24	3/12	3/04	2/26	2/21	2/17	2/12	2/07	2/02	1/25
20	3/04	2/24	2/17	2/12	2/06	2/01	1/26	1/19	1/09
16	2/19	2/09	2/01	1/24	1/15	12/30	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	10/09	10/15	10/19	10/23	10/26	10/29	11/02	11/06	11/12
32	10/21	10/26	10/30	11/03	11/06	11/09	11/12	11/16	11/21
28	11/04	11/09	11/12	11/15	11/18	11/21	11/25	11/28	12/03
24	11/12	11/21	11/27	12/02	12/07	12/12	12/17	12/23	1/01
20	11/26	12/08	12/16	12/23	12/30	1/06	1/13	1/23	2/06
16	12/17	12/25	12/31	1/06	1/13	1/26	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	218	211	206	202	198	194	190	185	178
32	247	239	233	228	224	219	214	209	201
28	287	278	271	266	260	255	249	243	234
24	326	313	304	297	291	284	278	270	259
20	>365	>365	339	328	320	312	305	296	285
16	>365	>365	>365	>365	>365	>365	355	336	318

***** 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: ABERDEEN, MS **COOP ID: 220021**

Climate Division: MS 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 33˚50N** **Lon: 88˚31W**

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	737	550	375	152	34	1	0	0	11	150	390	633	3033
60	593	418	241	67	7	0	0	0	2	71	258	491	2148
57	508	341	176	35	2	0	0	0	0	40	191	407	1700
55	453	292	139	21	1	0	0	0	0	25	153	355	1439
50	328	188	66	4	0	0	0	0	0	6	78	241	911
32	53	11	0	0	0	0	0	0	0	0	0	24	88

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	339	385	657	873	1155	1334	1500	1470	1241	934	608	415	10911
55	26	22	83	204	443	644	787	757	551	246	70	32	3865
57	19	15	58	158	382	584	725	695	491	199	48	23	3397
60	12	8	30	101	294	494	632	602	403	136	25	13	2750
65	0	0	9	36	166	345	477	447	262	61	7	0	1810
70	0	0	0	8	73	202	322	294	144	20	0	0	1063

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	182	269	488	683	956	1136	1286	1258	1043	734	419	243	182	451	939	1622	2578	3714	5000	6258	7301	8035	8454	8697
45	102	167	348	534	801	986	1131	1103	893	580	290	143	102	269	617	1151	1952	2938	4069	5172	6065	6645	6935	7078
50	52	93	221	388	646	836	976	948	743	427	180	76	52	145	366	754	1400	2236	3212	4160	4903	5330	5510	5586
55	22	43	121	257	491	686	821	793	593	283	98	38	22	65	186	443	934	1620	2441	3234	3827	4110	4208	4246
60	2	14	57	146	337	536	666	638	444	161	43	14	2	16	73	219	556	1092	1758	2396	2840	3001	3044	3058
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	106	169	306	440	641	786	888	865	712	474	259	148	106	275	581	1021	1662	2448	3336	4201	4913	5387	5646	5794

(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