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: SANDHILL RESEARCH ELGIN, SC **COOP ID: 387666**

Climate Division: SC 6 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 34˚09N** **Lon: 80˚52W**

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	54.0	32.4	43.2	78+	1997	1	54.8	1974	-2	1985	21	33.2	1977	677	0	.0	.0	20.2	.5	15.8	.1
Feb	58.4	34.7	46.6	84	1997	28	53.7	1976	9+	1996	5	38.0	1978	517	0	.0	.0	21.4	.3	12.0	.0
Mar	66.2	42.0	54.1	89	1961	6	60.5	1997	6	1980	3	48.6	1971	347	8	.0	.0	29.1	.1	5.4	.0
Apr	74.7	49.6	62.2	94	2001	11	66.9	1981	24	1985	3	57.1	1983	130	44	.0	.5	29.9	.0	.5	.0
May	81.6	58.2	69.9	98+	2000	26	74.1	2000	37	1966	11	66.3	1972	24	176	.0	4.2	31.0	.0	.0	.0
Jun	87.8	65.7	76.8	104+	1998	29	81.7	1998	47	1984	1	72.8	1972	1	354	.7	12.0	30.0	.0	.0	.0
Jul	91.2	69.8	80.5	106	1986	20	85.6	1993	57+	1988	2	77.3	1984	0	480	1.7	19.7	31.0	.0	.0	.0
Aug	89.2	68.2	78.7	105+	1983	24	83.1	1999	52+	1987	15	75.4	1981	0	424	.9	15.4	31.0	.0	.0	.0
Sep	84.1	62.4	73.3	99+	1993	2	77.3	1980	40	1967	30	70.3	1974	4	251	.0	6.5	30.0	.0	.0	.0
Oct	74.8	50.4	62.6	95	1986	3	69.1	1984	23	1989	21	56.8	1987	140	66	.0	.3	30.9	.0	.4	.0
Nov	66.2	42.1	54.2	88+	1973	26	61.6	1985	15	1970	24	48.0	1976	336	9	.0	.0	28.7	.0	4.8	.0
Dec	57.1	34.8	46.0	80+	1978	9	53.6	1984	4	1962	13	37.6	1989	591	0	.0	.0	22.9	.3	13.2	.0
Ann	73.8	50.9	62.3	106	Jul 1986	20	85.6	Jul 1993	-2	Jan 1985	21	33.2	Jan 1977	2767	1812	3.3	58.6	336.1	1.2	52.1	.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: 1957-2001

(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: SANDHILL RESEARCH ELGIN, SC **COOP ID: 387666**

Climate Division: SC 6 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 34°09N** **Lon: 80°52W**

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	4.76	4.51	3.09	1993	8	9.76	1978	.84	1981
Feb	3.56	3.60	3.25	1984	14	6.78	1985	.60	1986
Mar	4.61	4.35	4.42	1983	18	10.84	1980	.07	1985
Apr	3.09	3.31	3.09	1979	26	7.56	1998	.21	1976
May	3.28	2.85	3.48	1984	7	8.38	1984	.67	1983
Jun	3.99	3.21	4.07	1965	15	11.88	1973	1.48	1986
Jul	5.04	4.37	7.30	1959	9	10.84	1984	1.19	1980
Aug	4.85	4.29	6.30	1986	20	13.93	1986	.89	1975
Sep	4.05	3.94	4.67	1979	5	9.00	2000	.28	1984
Oct	3.14	2.60	6.00	1990	11	12.24	1990	.00	2000
Nov	3.11	2.92	2.76	1963	6	7.59	1985	.56	1973
Dec	3.39	2.72	3.70	1994	23	7.83	1983	1.00	2000
Ann	46.87	45.63	7.30	Jul 1959	9	13.93	Aug 1986	.00	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	7.6	3.6	1.3
Feb	9.0	5.8	2.2	1.0
Mar	9.6	7.3	3.4	1.5
Apr	7.6	5.5	2.0	.8
May	8.8	6.0	2.2	.9
Jun	9.2	6.4	2.9	1.1
Jul	10.2	7.9	3.5	1.3
Aug	9.6	7.0	3.2	1.2
Sep	8.4	5.5	2.5	1.1
Oct	6.6	4.3	2.0	1.0
Nov	8.0	5.3	2.4	.9
Dec	10.0	6.4	2.2	.8
Ann	108.1	75.0	32.1	12.9

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	1.67	2.12	2.77	3.32	3.84	4.38	4.97	5.65	6.53	7.88	9.12
Feb	1.06	1.40	1.90	2.34	2.77	3.21	3.70	4.27	5.02	6.18	7.26
Mar	.92	1.34	2.02	2.64	3.27	3.94	4.70	5.61	6.82	8.76	10.60
Apr	.38	.62	1.06	1.49	1.95	2.45	3.05	3.78	4.77	6.40	7.98
May	1.01	1.32	1.78	2.18	2.57	2.97	3.42	3.94	4.61	5.66	6.63
Jun	1.26	1.64	2.21	2.69	3.15	3.63	4.16	4.78	5.58	6.82	7.96
Jul	1.79	2.26	2.95	3.53	4.08	4.65	5.27	5.98	6.90	8.32	9.63
Aug	1.09	1.54	2.25	2.89	3.53	4.21	4.97	5.89	7.09	9.00	10.80
Sep	.62	.97	1.55	2.11	2.69	3.32	4.05	4.94	6.13	8.07	9.93
Oct	.16	.45	.93	1.39	1.89	2.43	3.08	3.87	4.95	6.74	8.49
Nov	.91	1.20	1.65	2.03	2.41	2.80	3.23	3.74	4.40	5.43	6.39
Dec	.92	1.24	1.73	2.16	2.58	3.02	3.51	4.08	4.83	6.01	7.11
Ann	37.43	39.34	41.75	43.54	45.11	46.62	48.15	49.84	51.85	54.74	57.20

\+ 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: 1957-2001
(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: SANDHILL RESEARCH ELGIN, SC **COOP ID: 387666**

Climate Division: SC 6 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 34°09N** **Lon: 80°52W**

Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	#	.0	0	0	#	1991	25	#+	1991	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.6	.0	0	0	4.0	1971	26	4.0	1971	0	0	0	0	0	.2	.2	.2	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	0	0	.5	1973	17	.5	1973	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	4.0	Mar 1971	26	4.0	Mar 1971	0	0	0	0	0	.3	.2	.2	.0	.0	.0	.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: SANDHILL RESEARCH ELGIN, SC **COOP ID: 387666**

Climate Division: SC 6 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 34˚09N** **Lon: 80˚52W**

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	4/21	4/15	4/12	4/09	4/06	4/03	3/30	3/27	3/22
32	4/14	4/08	4/04	3/31	3/28	3/25	3/21	3/17	3/11
28	4/08	3/31	3/25	3/20	3/15	3/10	3/05	2/27	2/19
24	3/16	3/09	3/03	2/27	2/23	2/19	2/14	2/09	2/02
20	3/09	2/28	2/21	2/16	2/10	2/05	1/30	1/22	1/08
16	2/28	2/17	2/09	2/02	1/27	1/19	1/10	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	10/13	10/19	10/23	10/26	10/29	11/02	11/05	11/09	11/15
32	10/24	10/30	11/04	11/07	11/11	11/14	11/18	11/22	11/28
28	11/03	11/10	11/15	11/19	11/23	11/27	12/01	12/06	12/12
24	11/17	11/25	12/01	12/06	12/11	12/15	12/20	12/26	1/03
20	12/01	12/12	12/20	12/26	1/02	1/08	1/15	1/25	2/11
16	12/18	12/30	1/08	1/16	1/24	2/02	2/14	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	225	219	214	210	206	202	198	193	187
32	254	245	238	232	227	222	216	209	199
28	276	268	262	257	252	247	242	236	228
24	320	310	302	296	290	284	277	270	260
20	>365	>365	338	325	317	310	303	295	285
16	>365	>365	>365	>365	>365	353	337	325	311

***** 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: SANDHILL RESEARCH ELGIN, SC **COOP ID: 387666**

Climate Division: SC 6 **NWS Call Sign:** **Elevation: 440 Feet** **Lat: 34˚09N** **Lon: 80˚52W**

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	677	517	347	130	24	1	0	0	4	140	336	591	2767
60	534	384	215	53	4	0	0	0	0	66	209	447	1912
57	449	306	151	26	1	0	0	0	0	37	148	364	1482
55	396	258	116	14	0	0	0	0	0	23	114	312	1233
50	276	157	50	2	0	0	0	0	0	6	49	202	742
32	32	5	0	0	0	0	0	0	0	0	0	13	50

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	379	412	684	904	1175	1344	1503	1447	1237	949	663	445	11142
55	29	21	87	228	462	654	790	734	547	259	87	31	3929
57	21	13	61	180	401	594	728	672	487	211	61	21	3450
60	12	7	31	117	311	504	635	579	397	147	32	12	2784
65	0	0	8	44	176	354	480	424	251	66	9	0	1812
70	0	0	0	10	78	214	325	269	122	21	1	0	1040

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	185	248	455	672	938	1113	1262	1210	1013	720	443	242	185	433	888	1560	2498	3611	4873	6083	7096	7816	8259	8501
45	103	151	317	523	783	963	1107	1055	863	565	306	141	103	254	571	1094	1877	2840	3947	5002	5865	6430	6736	6877
50	48	83	200	379	628	813	952	900	713	413	192	75	48	131	331	710	1338	2151	3103	4003	4716	5129	5321	5396
55	23	36	106	248	474	663	797	745	563	271	104	36	23	59	165	413	887	1550	2347	3092	3655	3926	4030	4066
60	1	12	46	137	325	513	642	590	415	155	44	10	1	13	59	196	521	1034	1676	2266	2681	2836	2880	2890
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	112	161	281	423	619	759	860	837	688	453	271	148	112	273	554	977	1596	2355	3215	4052	4740	5193	5464	5612

(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