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: GREENWOOD 3 SW, SC **COOP ID: 383754**

Climate Division: SC 5 **NWS Call Sign:** **Elevation: 615 Feet** **Lat: 34˚12N** **Lon: 82˚10W**

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	52.1	29.9	41.0	82	1949	12	53.7	1974	-2+	1985	22	31.6	1977	743	0	.0	.0	18.0	.8	19.7	.1
Feb	57.2	31.7	44.5	80	1980	24	51.2	1990	2+	1973	12	36.0	1978	576	0	.0	.0	20.5	.5	16.3	.0
Mar	65.4	38.4	51.9	89	1974	11	57.9	1997	3+	1980	4	46.8	1971	410	4	.0	.0	28.5	@	9.8	.0
Apr	73.7	45.3	59.5	92+	1986	28	63.8	1999	24+	1987	1	54.6	1983	186	21	.0	.2	29.7	.0	2.5	.0
May	80.9	54.5	67.7	97	1953	26	73.4	2000	32+	1989	9	63.0	1997	55	138	.0	2.3	31.0	.0	.1	.0
Jun	87.4	63.1	75.3	105	1954	28	79.9	1981	41	1984	1	71.1	1972	2	309	.2	10.7	30.0	.0	.0	.0
Jul	90.8	67.1	79.0	106	1980	14	83.4	1993	55+	1983	10	76.0	1971	0	433	1.4	18.9	31.0	.0	.0	.0
Aug	88.9	66.3	77.6	107	1954	18	81.5	1980	50+	1968	31	74.5	1971	0	392	.7	14.3	31.0	.0	.0	.0
Sep	83.3	60.0	71.7	104	1954	7	76.3	1980	35	1967	30	69.2	1976	9	209	.0	5.4	30.0	.0	.0	.0
Oct	73.3	47.4	60.4	100	1954	7	67.9	1984	25+	1981	21	54.3	1987	192	48	.0	.2	31.0	.0	1.4	.0
Nov	64.1	38.7	51.4	89	1961	3	60.1	1985	13+	1970	25	45.3	1976	414	4	.0	.0	28.3	.0	10.1	.0
Dec	54.8	32.1	43.5	78+	1991	1	51.8	1984	1	1962	13	36.3	2000	668	0	.0	.0	21.2	.3	17.5	.0
Ann	72.7	47.9	60.3	107	Aug 1954	18	83.4	Jul 1993	-2+	Jan 1985	22	31.6	Jan 1977	3255	1558	2.3	52.0	330.2	1.6	77.4	.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

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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	4.99	5.09	3.43	1969	20	7.74	1974	.75	1981
Feb	4.23	4.59	3.07	1981	11	7.41	1990	.61	1978
Mar	4.88	4.59	4.25	1964	26	11.07	1980	.84	1985
Apr	3.11	2.76	3.63	1969	16	7.87	1979	.52	1976
May	3.73	3.51	3.42	1953	1	8.83	1976	1.56	2000
Jun	3.69	3.20	3.82	1964	23	11.04	1994	.65	1993
Jul	3.97	3.74	4.10	1974	7	7.80	1985	.44	1987
Aug	3.62	3.23	7.10	1964	30	12.50	1995	.41	1997
Sep	3.32	3.22	3.50	1963	29	9.45	1980	.18	1978
Oct	3.47	3.79	8.02	1976	9	11.51	1976	.00	2000
Nov	3.59	3.10	4.06	1963	27	9.46	1985	.70	1981
Dec	3.72	3.50	2.32	1992	28	9.64	1983	.54	1988
Ann	46.32	46.10	8.02	Oct 1976	9	12.50	Aug 1995	.00	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.4	8.2	3.5	1.5
Feb	9.0	6.6	3.0	1.1
Mar	10.0	7.5	3.4	1.5
Apr	7.9	5.4	1.9	.8
May	8.4	5.8	2.5	1.1
Jun	9.0	6.2	2.4	.9
Jul	9.5	6.8	2.6	.9
Aug	8.6	5.8	2.5	1.1
Sep	7.8	5.5	2.2	1.0
Oct	6.4	4.4	1.9	1.1
Nov	8.4	5.6	2.7	1.1
Dec	9.9	6.5	2.8	.9
Ann	106.3	74.3	31.4	13.0

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	2.06	2.52	3.16	3.69	4.18	4.69	5.23	5.85	6.64	7.85	8.94
Feb	1.24	1.64	2.25	2.77	3.28	3.81	4.39	5.08	5.98	7.37	8.67
Mar	1.47	1.93	2.63	3.22	3.80	4.41	5.07	5.85	6.86	8.44	9.90
Apr	.74	1.03	1.48	1.89	2.29	2.72	3.20	3.77	4.52	5.70	6.82
May	1.43	1.78	2.27	2.69	3.08	3.48	3.91	4.41	5.05	6.02	6.92
Jun	.94	1.29	1.83	2.30	2.77	3.26	3.81	4.46	5.32	6.66	7.92
Jul	1.24	1.61	2.17	2.65	3.12	3.60	4.13	4.75	5.55	6.80	7.96
Aug	.51	.81	1.33	1.83	2.36	2.94	3.61	4.43	5.53	7.34	9.08
Sep	.45	.73	1.20	1.66	2.15	2.68	3.30	4.06	5.08	6.76	8.37
Oct	.09	.31	.77	1.26	1.81	2.45	3.23	4.22	5.61	7.95	10.28
Nov	.95	1.29	1.81	2.27	2.72	3.19	3.71	4.33	5.14	6.40	7.59
Dec	1.00	1.35	1.89	2.36	2.83	3.31	3.85	4.49	5.32	6.62	7.84
Ann	34.44	36.78	39.76	42.00	43.99	45.90	47.87	50.03	52.65	56.42	59.67

\+ 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	1.0	.0	#	0
Feb	1.2	.0	#	0
Mar	.7	.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	3.0	.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	6.0	1988	8	6.0	1988	6	1982	15	1	1982
Feb	8.0	1973	10	8.6	1973	8	1973	10	1	1979
Mar	5.0	1983	25	5.0	1983	4+	1993	14	#+	1993
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	#	1975	23	#	1975	0	0	0	0	0
Dec	3.0	1993	23	3.0	1993	0	0	0	0	0
Ann	8.0	Feb 1973	10	8.6	Feb 1973	8	Feb 1973	10	1+	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.4	.1	@	.0
Feb	.6	.4	.2	.1	.0
Mar	.2	.2	.1	@	.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
Ann	1.4	1.0	.4	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.6	.1	@	.0
Feb	.6	.2	.1	.0
Mar	.2	.2	.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	1.4	.5	.1	.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	5/08	5/02	4/29	4/25	4/22	4/19	4/15	4/12	4/06
32	4/25	4/19	4/15	4/11	4/08	4/04	4/01	3/27	3/21
28	4/07	4/01	3/27	3/23	3/20	3/16	3/13	3/08	3/02
24	3/26	3/19	3/13	3/08	3/04	2/28	2/23	2/17	2/10
20	3/14	3/04	2/26	2/20	2/15	2/09	2/04	1/28	1/19
16	3/04	2/23	2/16	2/10	2/04	1/29	1/22	1/11	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	10/07	10/12	10/15	10/18	10/20	10/22	10/25	10/28	11/02
32	10/14	10/20	10/24	10/27	10/31	11/03	11/06	11/10	11/16
28	10/28	11/03	11/07	11/11	11/14	11/18	11/22	11/26	12/02
24	11/09	11/16	11/20	11/24	11/28	12/01	12/05	12/10	12/16
20	11/21	12/01	12/08	12/14	12/20	12/25	12/31	1/07	1/17
16	12/11	12/20	12/27	1/02	1/08	1/14	1/22	2/02	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	201	194	189	184	180	176	172	167	159
32	227	219	214	209	205	201	196	191	183
28	264	255	249	244	239	234	228	222	214
24	293	285	278	273	268	263	258	251	243
20	341	324	315	308	302	296	290	282	272
16	>365	>365	>365	351	334	324	315	306	295

***** 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	743	576	410	186	55	2	0	0	9	192	414	668	3255
60	596	437	270	87	16	0	0	0	1	103	279	516	2305
57	508	360	198	47	6	0	0	0	0	65	208	430	1822
55	452	309	157	29	3	0	0	0	0	45	166	373	1534
50	322	195	77	5	0	0	0	0	0	15	85	246	945
32	43	9	0	0	0	0	0	0	0	0	0	17	69

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	324	357	617	825	1106	1297	1456	1415	1190	879	581	372	10419
55	19	13	61	164	396	607	743	702	500	211	57	15	3488
57	13	8	40	123	337	547	681	640	440	168	38	10	3045
60	8	1	20	72	254	457	588	547	351	113	19	3	2433
65	0	0	4	21	138	309	433	392	209	48	4	0	1558
70	0	0	0	3	59	173	278	240	91	14	0	0	858

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	136	195	389	595	865	1068	1220	1178	962	639	352	173	136	331	720	1315	2180	3248	4468	5646	6608	7247	7599	7772
45	70	110	252	447	710	918	1065	1023	812	487	231	92	70	180	432	879	1589	2507	3572	4595	5407	5894	6125	6217
50	31	54	147	303	555	768	910	868	662	339	130	44	31	85	232	535	1090	1858	2768	3636	4298	4637	4767	4811
55	7	18	71	182	402	618	755	713	512	208	60	20	7	25	96	278	680	1298	2053	2766	3278	3486	3546	3566
60	0	1	29	94	258	468	600	558	364	107	22	0	0	1	30	124	382	850	1450	2008	2372	2479	2501	2501
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	92	144	261	389	572	726	826	806	642	412	235	117	92	236	497	886	1458	2184	3010	3816	4458	4870	5105	5222

(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