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: FLORENCE 8 NE, SC **COOP ID: 383111**

Climate Division: SC 4 **NWS Call Sign:** **Elevation: 120 Feet** **Lat: 34˚18N** **Lon: 79˚44W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Extremes Year	Extremes Day	Extremes Highest Month(1) Mean	Extremes Year	Extremes Lowest Daily(2)	Extremes Year	Extremes Day	Extremes Lowest Month(1) Mean	Extremes Year	Degree Days (1) Base Temp 65 Heating	Degree Days (1) Base Temp 65 Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	55.6	33.3	44.5	82	1952	28	57.4	1974	1	1985	21	34.8	1977	640	0	.0	.0	21.2	.5	16.0	.0
Feb	59.5	35.6	47.6	85	1996	28	54.5	1990	4	1973	12	39.4	1978	488	0	.0	.0	20.8	.2	12.2	.0
Mar	67.4	43.1	55.3	88+	1990	13	60.8	1976	16	1980	3	50.0	1996	314	12	.0	.0	28.9	.1	5.1	.0
Apr	75.9	50.6	63.3	93+	1995	20	68.1	1981	27	1985	10	58.9	1993	109	57	.0	.9	29.9	.0	.6	.0
May	83.1	59.2	71.2	102	2000	13	74.5	2000	35	1989	8	67.1	1992	14	205	@	4.7	31.0	.0	.0	.0
Jun	89.1	67.0	78.1	106	1954	28	82.5	1981	48	1966	2	74.2	1997	0	392	.4	13.2	30.0	.0	.0	.0
Jul	92.3	70.9	81.6	104	1952	22	85.9	1993	55	1963	11	78.8	1975	0	516	1.8	20.4	31.0	.0	.0	.0
Aug	90.5	69.4	80.0	105	1980	2	82.8	1987	53	1976	31	77.3	1997	0	463	1.0	16.0	31.0	.0	.0	.0
Sep	85.6	63.7	74.7	102	1954	7	79.9	1980	39	1967	30	71.9+	1999	4	293	.0	7.1	30.0	.0	.0	.0
Oct	76.4	50.9	63.7	99	1954	6	70.5	1984	23	1962	27	56.4	1988	134	92	.0	.5	30.9	.0	.5	.0
Nov	68.1	42.6	55.4	89	1961	3	65.0	1985	16+	1970	25	49.0	1976	308	20	.0	.0	29.0	.0	6.1	.0
Dec	58.8	35.6	47.2	85	1998	9	56.7	1971	6	1962	13	38.3	1989	555	3	.0	.0	23.5	.1	13.8	.0
Ann	75.2	51.8	63.6	106	Jun 1954	28	85.9	Jul 1993	1	Jan 1985	21	34.8	Jan 1977	2566	2053	3.2	62.8	337.2	.9	54.3	.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: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

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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	4.66	4.61	3.18	1999	24	8.60	2000	.97	1981
Feb	3.33	2.81	2.71	1969	17	8.42	1998	.56	1986
Mar	4.31	3.39	3.49	1971	4	11.08	1983	1.18	1982
Apr	2.85	2.74	2.63	1975	3	6.03	1998	.17	1976
May	3.54	3.35	3.54	1954	2	6.56	1972	1.26	1986
Jun	4.30	4.01	5.10	1960	20	12.47	1976	.97	1990
Jul	5.44	5.77	4.20	1951	2	9.32	1984	1.04	1992
Aug	5.43	5.22	5.83	1974	6	14.05	1992	.73	1983
Sep	4.06	3.20	5.34	1979	5	9.29	1996	.34	1981
Oct	3.28	2.96	5.20	1990	11	10.23	1990	.11	2000
Nov	2.77	2.71	2.33	1991	10	7.74	1985	.38	1984
Dec	3.61	3.08	6.16	1994	23	9.09	1994	.43	1988
Ann	47.58	47.74	6.16	Dec 1994	23	14.05	Aug 1992	.11	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.1	7.9	3.4	1.1
Feb	9.6	5.9	2.3	.9
Mar	10.2	6.9	3.0	1.2
Apr	7.9	4.8	2.1	.8
May	10.3	6.5	2.4	.8
Jun	10.2	6.9	2.8	1.3
Jul	11.5	8.1	3.8	1.6
Aug	11.6	7.5	3.0	1.7
Sep	9.1	5.6	2.7	1.3
Oct	7.2	4.8	1.8	.8
Nov	8.6	4.7	2.0	.8
Dec	10.5	6.3	2.4	.7
Ann	118.8	75.9	31.7	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	1.77	2.21	2.83	3.34	3.83	4.33	4.88	5.51	6.31	7.54	8.66
Feb	.87	1.18	1.67	2.09	2.51	2.95	3.44	4.02	4.77	5.97	7.08
Mar	1.30	1.71	2.33	2.85	3.36	3.90	4.48	5.17	6.06	7.44	8.73
Apr	.41	.65	1.06	1.46	1.87	2.32	2.84	3.48	4.35	5.75	7.10
May	1.49	1.81	2.26	2.63	2.98	3.33	3.71	4.14	4.69	5.53	6.29
Jun	1.08	1.48	2.11	2.66	3.21	3.79	4.43	5.19	6.19	7.77	9.25
Jul	1.88	2.39	3.14	3.78	4.38	5.00	5.68	6.47	7.49	9.06	10.50
Aug	1.10	1.60	2.39	3.12	3.86	4.65	5.54	6.61	8.03	10.30	12.45
Sep	.62	.97	1.56	2.12	2.70	3.33	4.06	4.96	6.15	8.10	9.97
Oct	.23	.44	.85	1.30	1.80	2.39	3.08	3.97	5.21	7.29	9.36
Nov	.56	.81	1.22	1.59	1.97	2.37	2.82	3.37	4.09	5.24	6.34
Dec	.82	1.15	1.68	2.16	2.63	3.14	3.71	4.38	5.27	6.69	8.02
Ann	36.80	38.95	41.68	43.72	45.51	47.24	49.00	50.94	53.27	56.62	59.48

\+ 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)

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	.1	.0	0	0	.5	1977	31	.5+	1981	0	0	0	0	0	.2	.0	.0	.0	.0	.0	.0	.0	.0
Feb	1.3	.0	0	0	8.0	1973	11	14.0	1973	0	0	0	0	0	.2	.2	.2	.2	.0	.0	.0	.0	.0
Mar	1.0	.0	0	0	7.0	1980	3	7.0	1980	0	0	0	0	0	.2	.2	.2	.1	.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	.5	.0	0	0	2.5	1973	17	2.5+	1980	0	0	0	0	0	.2	.2	.0	.0	.0	.0	.0	.0	.0
Ann	2.9	.0	N/A	N/A	8.0	Feb 1973	11	14.0	Feb 1973	0	0	0	0	0	.8	.6	.4	.3	.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

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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	4/22	4/16	4/12	4/09	4/06	4/03	3/30	3/26	3/21
32	4/12	4/06	4/02	3/30	3/26	3/23	3/19	3/15	3/09
28	4/02	3/25	3/19	3/15	3/10	3/05	3/01	2/23	2/15
24	3/10	3/04	2/27	2/23	2/19	2/15	2/11	2/06	1/30
20	2/26	2/16	2/09	2/03	1/28	1/22	1/15	1/03	0/00
16	2/11	2/02	1/26	1/19	1/11	12/28	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	10/16	10/19	10/22	10/24	10/26	10/29	11/01	11/05
32	10/21	10/27	10/31	11/04	11/07	11/10	11/13	11/18	11/23
28	11/02	11/07	11/11	11/14	11/17	11/20	11/23	11/27	12/02
24	11/17	11/25	11/30	12/05	12/10	12/14	12/19	12/24	1/01
20	12/06	12/15	12/21	12/26	1/01	1/07	1/13	1/24	0/00
16	12/27	1/07	1/16	1/25	2/05	2/23	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	220	213	208	204	200	197	193	188	181
32	248	240	234	229	225	220	215	210	202
28	276	267	261	256	251	246	241	235	226
24	319	310	304	298	293	288	282	276	267
20	>365	>365	>365	348	334	325	316	307	295
16	>365	>365	>365	>365	>365	>365	>365	>365	340

***** 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	640	488	314	109	14	0	0	0	4	134	308	555	2566
60	496	355	189	42	2	0	0	0	1	65	193	413	1756
57	412	279	130	19	0	0	0	0	0	38	139	333	1350
55	360	231	97	10	0	0	0	0	0	25	108	284	1115
50	246	135	39	1	0	0	0	0	0	8	48	181	658
32	24	3	0	0	0	0	0	0	0	0	0	10	37

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	410	438	722	937	1214	1382	1539	1486	1279	981	701	480	11569
55	33	23	106	257	501	692	826	773	589	293	119	41	4253
57	24	14	77	206	439	632	764	711	529	244	90	28	3758
60	14	7	42	139	347	542	671	618	439	179	55	16	3069
65	0	0	12	57	205	392	516	463	293	92	20	3	2053
70	0	0	2	14	94	247	361	308	160	37	5	0	1228

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	191	248	469	683	953	1130	1280	1227	1022	715	452	247	191	439	908	1591	2544	3674	4954	6181	7203	7918	8370	8617
45	104	150	325	535	798	980	1125	1072	872	563	311	147	104	254	579	1114	1912	2892	4017	5089	5961	6524	6835	6982
50	51	80	210	390	643	830	970	917	722	409	202	77	51	131	341	731	1374	2204	3174	4091	4813	5222	5424	5501
55	21	38	117	255	490	680	815	762	572	270	111	39	21	59	176	431	921	1601	2416	3178	3750	4020	4131	4170
60	3	11	51	148	338	530	660	607	424	156	51	14	3	14	65	213	551	1081	1741	2348	2772	2928	2979	2993
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	122	160	288	432	635	779	881	851	699	459	290	156	122	282	570	1002	1637	2416	3297	4148	4847	5306	5596	5752

(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