

# Climatography of the United States

No. 20

1971-2000

Station: FLORENCE RGNL AP, SC

COOP ID: 383106

Climate Division: SC 4

NWS Call Sign: FLO

Elevation: 146 Feet Lat: 34° 12N Lon: 79° 44W

## 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	54.8	35.2	45.0	85	1975	31	59.8	1974	0	1985	21	34.3	1977	634	0	.0	.0	21.7	.5	13.0	@
Feb	59.1	37.6	48.4	85+	1997	27	56.8	1976	11	1996	5	38.5	1978	473	6	.0	.0	22.0	.2	9.3	.0
Mar	67.2	44.4	55.8	92+	1974	10	62.7	1976	11	1980	3	49.1	1971	302	17	.0	.1	29.6	@	3.4	.0
Apr	75.2	51.0	63.1	97	1981	28	68.9	1981	27	1983	20	58.8	1983	115	58	.0	1.5	29.9	.0	.4	.0
May	82.0	59.9	71.0	102+	1953	31	76.0	1975	36	1989	8	67.7	1971	20	203	.0	5.2	31.0	.0	.0	.0
Jun	87.6	67.6	77.6	108	1954	27	82.8	1981	47	1966	2	71.9	1979	0	379	.6	13.5	30.0	.0	.0	.0
Jul	90.7	71.6	81.2	104+	1990	10	85.8	1993	57+	1988	2	77.7	1984	0	501	1.9	20.8	31.0	.0	.0	.0
Aug	89.1	70.4	79.8	106+	1980	1	84.1	1975	54	1979	17	76.5	1981	0	457	.8	16.3	31.0	.0	.0	.0
Sep	84.3	65.0	74.7	101	1954	6	79.6	1973	41+	1967	30	70.2	1984	5	294	.1	7.6	30.0	.0	.0	.0
Oct	75.2	52.9	64.1	102	1954	6	69.2+	1984	27	1962	27	57.6	1987	123	93	.0	.4	31.0	.0	.2	.0
Nov	66.6	44.2	55.4	89+	1993	16	63.7	1985	16	1950	26	48.5	1976	307	19	.0	.0	29.0	.0	4.3	.0
Dec	57.6	37.4	47.5	86	1991	3	55.5	1971	8+	1983	26	38.8	1989	544	2	.0	.0	24.3	.2	10.4	.0
Ann	74.1	53.1	63.6	108	Jun 1954	27	85.8	Jul 1993	0	Jan 1985	21	34.3	Jan 1977	2523	2029	3.4	65.4	340.5	.9	41.0	@

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(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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**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 RGNL AP, SC**

**COOP ID: 383106**

**Climate Division: SC 4**

**NWS Call Sign: FLO**

**Elevation: 146 Feet Lat: 34°12N**

**Lon: 79°44W**

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	4.09	4.01	2.10	1999	23	7.78	1995	.71	1981	10.9	7.5	3.0	1.0	1.53	1.91	2.46	2.92	3.35	3.79	4.28	4.84	5.55	6.64	7.65
Feb	3.02	2.45	2.86	1962	22	6.86	1998	.97	2000	8.3	6.0	2.1	.7	.88	1.17	1.60	1.97	2.34	2.72	3.14	3.63	4.27	5.28	6.21
Mar	4.00	3.46	4.20	1971	3	10.96	1971	.77	1985	9.1	6.6	2.5	1.1	1.16	1.54	2.12	2.61	3.09	3.59	4.15	4.80	5.65	6.97	8.20
Apr	2.79	2.59	3.84	1949	22	6.15	1989	.33	1986	7.7	5.1	2.1	.6	.50	.75	1.16	1.54	1.93	2.34	2.82	3.40	4.17	5.40	6.58
May	3.31	3.18	3.59	1966	26	7.12	1972	.46	1987	9.2	6.4	2.5	.7	1.15	1.47	1.92	2.30	2.67	3.05	3.46	3.94	4.55	5.50	6.37
Jun	4.27	4.12	4.92	1958	22	8.17	1976	.58	1990	9.7	6.8	3.1	1.0	1.32	1.73	2.33	2.85	3.35	3.87	4.44	5.11	5.98	7.33	8.57
Jul	5.28	5.05	4.65	1951	1	10.16	1997	1.48	1987	11.0	7.7	4.0	1.4	1.93	2.42	3.14	3.73	4.30	4.89	5.52	6.26	7.20	8.64	9.97
Aug	5.33	5.32	5.54	1973	3	14.36	1992	1.50	1976	10.6	7.3	3.5	1.7	1.51	2.02	2.78	3.45	4.10	4.78	5.53	6.42	7.57	9.37	11.05
Sep	3.67	3.39	4.95	1964	30	8.78	1979	.02	1981	8.8	6.0	2.3	.9	.41	.68	1.19	1.70	2.25	2.86	3.58	4.48	5.69	7.70	9.66
Oct	2.94	2.29	6.08	1954	15	10.83	1990	.00	2000	6.0	4.1	1.8	.9	.08	.29	.68	1.10	1.57	2.11	2.76	3.58	4.73	6.66	8.58
Nov	2.59	2.27	2.63	1978	29	8.21	1985	.46	1973	7.0	4.7	1.7	.5	.52	.75	1.13	1.48	1.83	2.21	2.64	3.15	3.83	4.91	5.94
Dec	3.47	3.22	4.09	1994	22	9.57	1994	.77	1988	9.1	6.0	2.6	.8	.76	1.08	1.59	2.05	2.51	3.00	3.55	4.21	5.08	6.47	7.77
Ann	44.76	43.85	6.08	Oct 1954	15	14.36	Aug 1992	.00	Oct 2000	107.4	74.2	31.2	11.3	33.79	35.96	38.71	40.78	42.61	44.37	46.17	48.16	50.55	54.00	56.96

+ 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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Climate Division: SC 4

NWS Call Sign: FLO

Elevation: 146 Feet

Lat: 34° 12N

Lon: 79° 44W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.6	.0	#	0	9.9	1988	7	9.9	1988	9	1988	7	1+	1988	.2	.2	@	@	.0	.7	.4	.1	.0
Feb	1.4	.0	#	0	13.0	1973	10	17.0	1973	17+	1973	12	2	1973	.3	.2	.2	.1	.1	.4	.3	.3	.1
Mar	.4	.0	#	0	6.7	1980	2	6.7	1980	6+	1980	3	#	1980	.1	.1	@	@	.0	.1	.1	.1	.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	#	1996	.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	#	1976	14	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	3.0	1989	23	3.0	1989	5	1989	24	#	1993	.1	.1	@	.0	.0	.2	.1	@	.0
Ann	2.5	.0	N/A	N/A	13.0	Feb 1973	10	17.0	Feb 1973	17+	Feb 1973	12	2	Feb 1973	.7	.6	.2	.1	.1	1.4	.9	.5	.1

+ 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	4/23	4/16	4/11	4/07	4/03	3/30	3/26	3/21	3/14
32	4/10	4/03	3/29	3/24	3/20	3/16	3/11	3/06	2/27
28	3/27	3/19	3/13	3/09	3/04	2/28	2/23	2/17	2/09
24	3/11	3/02	2/24	2/18	2/13	2/08	2/03	1/27	1/18
20	2/28	2/18	2/11	2/05	1/30	1/24	1/17	1/05	0/00
16	2/14	2/03	1/25	1/16	1/03	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	10/13	10/18	10/22	10/25	10/28	11/01	11/04	11/08	11/13
32	10/28	11/02	11/06	11/09	11/11	11/14	11/17	11/21	11/25
28	11/10	11/16	11/20	11/23	11/26	11/30	12/03	12/07	12/13
24	11/22	12/01	12/07	12/12	12/17	12/22	12/27	1/03	1/11
20	12/02	12/13	12/22	12/29	1/05	1/12	1/21	2/03	0/00
16	12/28	1/10	1/20	1/31	2/15	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	235	226	219	213	208	202	196	190	180
32	258	250	245	240	236	231	227	221	214
28	291	283	277	271	267	262	256	250	242
24	340	324	316	309	303	297	291	284	275
20	>365	>365	>365	347	334	324	316	307	295
16	>365	>365	>365	>365	>365	>365	>365	>365	332

\* 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:

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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	634	473	302	115	20	0	0	0	5	123	307	544	2523
60	494	344	183	45	3	0	0	0	1	57	191	401	1719
57	417	273	127	21	1	0	0	0	0	31	136	320	1326
55	368	231	96	12	0	0	0	0	0	20	105	270	1102
50	265	145	40	2	0	0	0	0	0	5	46	169	672
32	39	7	0	0	0	0	0	0	0	0	0	8	54

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	441	464	738	932	1206	1368	1524	1480	1280	993	702	489	11617
55	58	44	121	254	493	678	811	767	590	300	117	38	4271
57	44	30	90	204	432	618	749	705	530	250	88	26	3766
60	29	17	52	138	341	528	656	612	440	182	53	14	3062
65	0	6	17	58	203	379	501	457	294	93	19	2	2029
70	0	0	3	15	98	236	346	302	164	36	5	0	1205

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	227	293	513	715	981	1148	1294	1247	1054	765	487	286	227	520	1033	1748	2729	3877	5171	6418	7472	8237	8724	9010
45	133	186	367	566	826	998	1139	1092	904	611	349	179	133	319	686	1252	2078	3076	4215	5307	6211	6822	7171	7350
50	70	107	242	420	671	848	984	937	754	458	228	99	70	177	419	839	1510	2358	3342	4279	5033	5491	5719	5818
55	32	55	140	280	517	698	829	782	604	310	131	48	32	87	227	507	1024	1722	2551	3333	3937	4247	4378	4426
60	14	22	67	163	364	548	674	627	455	187	63	20	14	36	103	266	630	1178	1852	2479	2934	3121	3184	3204
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	136	184	316	454	655	791	893	869	726	490	304	172	136	320	636	1090	1745	2536	3429	4298	5024	5514	5818	5990

(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](http://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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)