

# Climatology of the United States

## No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: BROOKGREEN GARDENS, SC

1971-2000

COOP ID: 381093

Climate Division: SC 4

NWS Call Sign:

Elevation: 20 Feet

Lat: 33°31N

Lon: 79°06W

### 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	57.6	37.3	47.5	84	1975	31	60.7	1974	4	1985	21	37.0	1977	557	0	.0	.0	25.1	.2	12.0	.0
Feb	61.0	39.2	50.1	88	1962	28	58.1	1990	11	1968	12	40.8	1978	420	3	.0	.0	23.8	.2	9.0	.0
Mar	67.9	45.9	56.9	90+	1985	29	62.9	1997	14	1980	3	50.9	1971	269	19	.0	.1	30.3	@	4.3	.0
Apr	75.0	52.3	63.7	94+	1981	28	68.1	1991	27	1983	20	59.3	1983	91	51	.0	.8	30.0	.0	.5	.0
May	81.8	60.8	71.3	98	2000	25	76.2	1991	30	1989	8	68.7	1972	7	201	.0	2.7	31.0	.0	@	.0
Jun	86.9	67.7	77.3	102	1990	21	81.5	1981	46+	1984	1	72.8	1972	0	368	.1	8.8	30.0	.0	.0	.0
Jul	90.4	71.8	81.1	103+	1986	19	85.0	1986	55+	1988	7	77.9	1974	0	499	.6	17.8	31.0	.0	.0	.0
Aug	88.6	70.8	79.7	101	1980	1	82.0	1987	55	1979	18	76.0	1976	0	456	.1	11.9	31.0	.0	.0	.0
Sep	84.6	66.2	75.4	98	1980	15	78.6	1980	41+	1967	30	72.3	1981	1	313	.0	4.1	30.0	.0	.0	.0
Oct	76.5	55.1	65.8	96	1986	5	71.8	1985	26	1976	29	60.5	1987	89	114	.0	.3	31.0	.0	.2	.0
Nov	68.5	46.8	57.7	86+	1986	9	66.3	1985	17	1970	25	49.6	1976	251	31	.0	.0	29.7	.0	3.9	.0
Dec	60.3	39.7	50.0	83	1971	16	58.3	1971	4	1989	25	41.4	1989	475	10	.0	.0	27.0	.1	9.9	.0
Ann	74.9	54.5	64.7	103+	Jul 1986	19	85.0	Jul 1986	4+	Dec 1989	25	37.0	Jan 1977	2160	2065	.8	46.5	349.9	.5	39.8	.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: 1957-2001

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

009-A

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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	4.70	4.80	4.01	1999	24	10.72	1998	.83	1981	10.9	7.8	3.2	1.2	1.62	2.07	2.71	3.26	3.78	4.32	4.91	5.60	6.47	7.83	9.08
Feb	3.53	2.74	3.74	1965	7	12.13	1998	.82	2000	9.3	6.1	2.8	1.0	.88	1.22	1.73	2.19	2.64	3.11	3.64	4.27	5.10	6.40	7.62
Mar	4.22	4.12	4.66	1983	17	10.82	1983	.84	1982	9.0	6.7	3.0	1.2	1.40	1.80	2.39	2.89	3.37	3.86	4.40	5.03	5.85	7.11	8.27
Apr	3.10	2.62	5.45	1958	16	8.19	1999	.02	1976	6.7	4.9	1.9	.9	.20	.38	.77	1.19	1.67	2.22	2.89	3.75	4.94	6.97	8.98
May	4.01	3.43	5.10	1979	10	11.14	1976	.79+	1993	8.8	6.3	2.4	1.1	1.00	1.37	1.96	2.48	2.99	3.53	4.14	4.85	5.79	7.28	8.67
Jun	4.96	4.38	6.44	1964	7	14.54	1995	.79	1990	10.1	6.9	3.3	1.5	.91	1.35	2.08	2.75	3.44	4.18	5.02	6.04	7.40	9.58	11.65
Jul	5.89	5.81	4.70	1960	29	13.08	1985	1.68	1988	11.6	8.5	3.8	1.8	1.84	2.40	3.23	3.94	4.63	5.34	6.13	7.05	8.23	10.08	11.78
Aug	6.43	5.81	6.78	1971	30	20.70	1971	.51	1980	11.4	8.7	3.8	2.1	.97	1.51	2.44	3.33	4.25	5.27	6.43	7.85	9.76	12.87	15.86
Sep	6.44	4.66	14.71	1999	16	19.76	1999	.75	1990	9.4	6.5	3.5	2.0	.94	1.48	2.41	3.30	4.23	5.25	6.43	7.87	9.81	12.98	16.02
Oct	3.89	2.82	6.62	1968	18	11.76	1995	.00	2000	6.4	4.3	2.2	1.3	.10	.37	.89	1.44	2.06	2.78	3.64	4.74	6.27	8.86	11.42
Nov	3.25	2.72	7.80	1969	2	10.28	1985	.95	1984	7.9	5.5	2.2	1.0	.76	1.07	1.54	1.97	2.39	2.84	3.34	3.93	4.72	5.96	7.12
Dec	4.15	3.27	4.44	1964	27	14.03	1994	.91	1984	9.5	6.6	2.9	1.2	.84	1.22	1.83	2.38	2.95	3.55	4.23	5.05	6.13	7.87	9.52
Ann	54.57	53.39	14.71	Sep 1999	16	20.70	Aug 1971	.00	Oct 2000	111.0	78.8	35.0	16.3	39.17	42.16	45.99	48.89	51.46	53.95	56.51	59.35	62.78	67.76	72.05

+ 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:  
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Climate Division: **SC 4**

NWS Call Sign:

Elevation: **20 Feet**

Lat: **33°31N**

Lon: **79°06W**

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	.2	.0	#	0	3.4	1988	15	3.4	1988	3	1988	15	#+	1992	.1	.1	@	.0	.0	.1	@	.0	.0
Feb	.4	.0	#	0	5.5	1973	11	9.5	1973	8	1973	11	1	1973	.1	.1	@	@	.0	.2	.1	.1	.0
Mar	.2	.0	#	0	3.1	1980	2	3.8	1980	3	1980	3	#+	1998	.1	.1	@	.0	.0	.1	.1	.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	.4	.0	0	0	5.8	1989	23	11.3	1989	12	1989	24	1	1989	.1	.1	.1	.1	.0	.2	.2	.1	@
Ann	1.2	.0	N/A	N/A	5.8	Dec 1989	23	11.3	Dec 1989	12	Dec 1989	24	1+	Dec 1989	.4	.4	.1	.1	.0	.6	.4	.2	@

+ 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	4/27	4/20	4/15	4/11	4/08	4/04	3/31	3/26	3/19
32	4/17	4/09	4/03	3/30	3/25	3/21	3/16	3/10	3/02
28	4/03	3/25	3/19	3/14	3/09	3/03	2/26	2/20	2/11
24	3/11	3/03	2/25	2/20	2/16	2/11	2/05	1/30	1/20
20	3/05	2/24	2/17	2/11	2/06	1/30	1/22	1/08	0/00
16	2/11	1/31	1/22	1/13	12/28	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	10/19	10/23	10/26	10/30	11/02	11/06	11/10	11/15
32	10/26	11/01	11/06	11/09	11/13	11/17	11/20	11/25	12/01
28	11/08	11/13	11/17	11/20	11/23	11/26	11/29	12/03	12/08
24	11/20	11/28	12/05	12/10	12/15	12/20	12/26	1/02	1/12
20	12/08	12/19	12/26	1/02	1/09	1/17	1/27	0/00	0/00
16	12/28	1/07	1/15	1/24	2/09	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	233	223	216	210	204	199	193	186	176
32	264	253	245	238	232	226	219	211	201
28	287	277	270	264	259	253	247	240	231
24	>365	324	313	305	299	293	287	280	270
20	>365	>365	>365	>365	335	322	312	302	289
16	>365	>365	>365	>365	>365	>365	>365	364	335

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

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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	557	420	269	91	7	0	0	0	1	89	251	475	2160
60	417	292	156	29	0	0	0	0	0	36	150	338	1418
57	341	222	104	11	0	0	0	0	0	18	103	265	1064
55	294	182	76	6	0	0	0	0	0	11	76	223	868
50	199	102	27	0	0	0	0	0	0	2	30	136	496
32	17	1	0	0	0	0	0	0	0	0	0	5	23

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	494	508	772	950	1217	1358	1522	1479	1301	1048	769	563	11981
55	59	45	135	266	504	668	809	766	611	345	155	67	4430
57	43	29	102	211	442	608	747	704	551	290	122	48	3897
60	27	15	60	139	349	518	654	611	461	215	79	27	3155
65	0	3	19	51	201	368	499	456	313	114	31	10	2065
70	0	0	4	10	84	225	344	301	172	46	10	0	1196

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	265	312	520	705	961	1114	1275	1228	1059	795	529	332	265	577	1097	1802	2763	3877	5152	6380	7439	8234	8763	9095
45	157	201	372	555	806	964	1120	1073	909	640	386	213	157	358	730	1285	2091	3055	4175	5248	6157	6797	7183	7396
50	83	114	244	407	651	814	965	918	759	486	255	123	83	197	441	848	1499	2313	3278	4196	4955	5441	5696	5819
55	37	55	139	266	497	664	810	763	609	338	153	60	37	92	231	497	994	1658	2468	3231	3840	4178	4331	4391
60	10	19	64	150	347	514	655	608	459	209	77	28	10	29	93	243	590	1104	1759	2367	2826	3035	3112	3140
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	153	192	318	447	648	779	892	868	740	519	329	197	153	345	663	1110	1758	2537	3429	4297	5037	5556	5885	6082

(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.  
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)