

Climatology of the United States

No. 20

1971-2000

Station: LONGCREEK, SC

COOP ID: 385278

Climate Division: SC 1

NWS Call Sign:

Elevation: 1,660 Feet Lat: 34°48N

Lon: 83°15W

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	49.6	26.6	38.1	77	1949	10	47.1	1974	-8	1985	21	27.9	1977	835	0	.0	.0	17.0	.9	19.1	.1
Feb	53.4	28.7	41.1	78	1981	28	46.4	1976	-5	1958	17	33.6	1978	670	0	.0	.0	19.6	.6	16.1	@
Mar	60.8	35.0	47.9	85	1974	10	52.6	1997	6+	1993	15	42.8	1971	531	0	.0	.0	28.0	.1	9.4	.0
Apr	69.4	42.6	56.0	90	1960	25	60.8	1981	21	1987	1	51.3	1983	278	7	.0	.0	29.7	.0	2.7	.0
May	76.1	51.7	63.9	95	1953	31	68.1	2000	29	1989	8	59.0	1976	106	70	.0	.3	30.9	.0	.1	.0
Jun	82.6	59.3	71.0	100+	1964	21	74.9	1981	39+	1984	1	65.0	1972	15	193	.0	3.8	30.0	.0	.0	.0
Jul	85.9	63.4	74.7	102+	1952	29	78.9	1993	38	1957	23	71.7	1979	1	299	.1	8.7	31.0	.0	.0	.0
Aug	84.3	62.3	73.3	101	1983	21	77.2	1999	50+	1979	17	69.2	1974	3	260	.1	5.7	31.0	.0	.0	.0
Sep	78.9	56.7	67.8	98+	1954	6	71.8	1998	30	1974	25	63.6	1974	34	118	.0	1.3	30.0	.0	@	.0
Oct	69.8	44.2	57.0	92	1954	5	63.2	1984	22+	2001	28	51.6+	1988	268	20	.0	.0	30.9	.0	2.0	.0
Nov	61.1	35.7	48.4	86+	1961	3	57.1	1985	11+	1970	25	40.8	1976	500	1	.0	.0	27.3	.0	8.6	.0
Dec	52.3	29.1	40.7	75+	1971	27	48.2	1984	-2	1962	13	33.3	2000	754	0	.0	.0	20.9	.3	17.8	@
Ann	68.7	44.6	56.7	102+	Jul 1952	29	78.9	Jul 1993	-8	Jan 1985	21	27.9	Jan 1977	3995	968	.2	19.8	326.3	1.9	75.8	.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/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

038-A

Climatology 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: LONGCREEK, SC

COOP ID: 385278

Climate Division: SC 1

NWS Call Sign:

Elevation: 1,660 Feet Lat: 34°48N

Lon: 83°15W

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	6.11	5.93	4.55	1996	27	11.37	1978	.90	1981	9.8	7.7	4.4	2.2	1.93	2.51	3.37	4.10	4.82	5.55	6.36	7.31	8.53	10.43	12.19
Feb	5.26	5.50	4.75	1966	13	8.20	1974	.57	1978	7.1	6.3	3.5	1.7	1.67	2.17	2.90	3.54	4.15	4.78	5.47	6.29	7.34	8.97	10.48
Mar	6.68	5.87	9.50	1998	9	15.60	1980	1.83	1985	8.5	7.7	4.3	2.3	2.27	2.90	3.83	4.61	5.36	6.13	6.97	7.95	9.21	11.17	12.97
Apr	4.62	4.01	3.75	1957	5	11.00	1979	1.16	1975	7.1	6.1	3.2	1.5	1.35	1.79	2.45	3.02	3.57	4.15	4.79	5.54	6.52	8.04	9.46
May	5.46	4.74	6.35	1973	28	17.65	1976	.45	2000	8.8	7.1	3.2	1.6	1.14	1.64	2.44	3.17	3.90	4.69	5.57	6.63	8.04	10.28	12.40
Jun	5.28	4.83	6.10	1967	4	15.09	1989	.51	1988	9.7	7.7	3.5	1.5	1.18	1.67	2.45	3.14	3.84	4.58	5.41	6.41	7.71	9.80	11.76
Jul	5.61	5.18	6.00	1948	12	13.50	1985	.00	1986	10.0	7.5	3.9	1.4	1.16	1.95	2.88	3.64	4.36	5.10	5.91	6.86	8.09	10.00	11.78
Aug	4.81	4.13	4.00	1992	23	12.35	1992	.24	1997	9.4	6.8	2.8	1.4	.82	1.24	1.95	2.61	3.28	4.02	4.85	5.87	7.23	9.42	11.51
Sep	4.91	4.42	6.00	1977	7	12.94	1975	.00	1984	7.8	5.5	2.3	1.4	.59	1.20	2.03	2.73	3.44	4.19	5.04	6.06	7.40	9.55	11.58
Oct	4.08	3.87	5.30	1965	1	8.81	1995	.00+	2000	5.7	4.9	2.6	1.4	.00	.95	1.80	2.44	3.03	3.65	4.33	5.08	6.11	7.72	9.22
Nov	4.84	4.29	4.50	1979	2	10.49	1977	2.00	1984	6.8	5.9	3.3	1.6	1.99	2.44	3.06	3.57	4.06	4.55	5.08	5.68	6.46	7.63	8.70
Dec	5.29	5.38	4.75	1996	2	11.46	1983	.65	1980	8.8	7.2	3.6	1.5	1.25	1.74	2.52	3.21	3.90	4.62	5.44	6.41	7.68	9.71	11.61
Ann	62.95	63.53	9.50	Mar 1998	9	17.65	May 1976	.00+	Oct 2000	99.5	80.4	40.6	19.5	43.07	46.86	51.75	55.48	58.81	62.03	65.38	69.09	73.60	80.18	85.89

+ 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

Complete documentation available from:
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1971-2000

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Station: LONGCREEK, SC

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NWS Call Sign:

Elevation: 1,660 Feet

Lat: 34° 48N

Lon: 83° 15W

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	1.2	.0	#	0	6.0	1991	25	8.5	1977	#	1992	19	#	1992	.3	.3	.2	.1	.0	.0	.0	.0	.0
Feb	1.3	.0	#	0	6.0	1980	9	10.5	1980	8	1979	19	#+	1993	.3	.3	.3	.1	.0	.2	.1	.0	.0
Mar	1.3	.0	#	0	10.0	1971	26	10.0	1971	3	1993	14	#	1993	.2	.2	.1	.1	.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	#	1976	14	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	3.8	.0	N/A	N/A	10.0	Mar 1971	26	10.5	Feb 1980	8	Feb 1979	19	#+	Mar 1993	.8	.8	.6	.3	.1	.3	.1	.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:

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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	5/19	5/12	5/07	5/03	4/29	4/25	4/21	4/15	4/09
32	4/30	4/24	4/19	4/16	4/12	4/08	4/05	3/31	3/25
28	4/15	4/09	4/04	3/31	3/28	3/24	3/20	3/15	3/09
24	4/03	3/26	3/21	3/17	3/12	3/08	3/04	2/26	2/19
20	3/19	3/10	3/04	2/27	2/22	2/17	2/12	2/05	1/28
16	3/11	3/02	2/24	2/19	2/15	2/10	2/05	1/30	1/21
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	10/02	10/06	10/09	10/11	10/14	10/16	10/19	10/22	10/26
32	10/05	10/12	10/18	10/22	10/26	10/30	11/04	11/09	11/16
28	10/18	10/25	10/30	11/03	11/07	11/11	11/15	11/20	11/26
24	11/05	11/10	11/14	11/18	11/21	11/25	11/28	12/02	12/08
20	11/19	11/26	12/01	12/06	12/10	12/14	12/18	12/24	12/31
16	12/02	12/11	12/18	12/24	12/30	1/05	1/11	1/18	1/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	191	183	177	172	167	162	157	152	143
32	227	216	209	202	196	190	184	177	166
28	253	243	236	229	223	217	211	204	194
24	283	273	266	259	253	247	241	233	223
20	324	312	304	297	291	284	277	269	257
16	354	339	330	323	316	309	301	293	281

* 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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Elevation: 1,660 Feet Lat: 34°48N Lon: 83°15W

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	835	670	531	278	106	15	1	3	34	268	500	754	3995
60	680	530	379	154	39	2	0	0	7	155	359	599	2904
57	594	446	293	97	17	0	0	0	2	104	280	510	2343
55	536	391	240	67	9	0	0	0	1	77	232	453	2006
50	395	262	129	20	1	0	0	0	0	29	134	314	1284
32	67	13	0	0	0	0	0	0	0	0	2	31	113

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	255	267	492	719	988	1168	1321	1280	1074	775	493	300	9132
55	10	0	19	96	284	478	608	567	385	138	33	9	2627
57	7	0	10	66	230	418	546	505	326	104	21	4	2237
60	0	0	3	33	159	330	453	412	241	62	10	0	1703
65	0	0	0	7	70	193	299	260	118	20	1	0	968
70	0	0	0	0	21	88	158	126	37	4	0	0	434

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	109	164	334	536	782	958	1101	1078	879	582	314	155	109	273	607	1143	1925	2883	3984	5062	5941	6523	6837	6992
45	50	81	208	388	628	808	946	923	729	427	192	74	50	131	339	727	1355	2163	3109	4032	4761	5188	5380	5454
50	21	32	109	252	475	658	791	768	579	284	100	31	21	53	162	414	889	1547	2338	3106	3685	3969	4069	4100
55	0	7	48	141	322	508	636	613	429	161	43	7	0	7	55	196	518	1026	1662	2275	2704	2865	2908	2915
60	0	0	12	63	186	360	481	459	286	67	5	0	0	0	12	75	261	621	1102	1561	1847	1914	1919	1919
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	66	112	216	338	503	647	757	745	579	361	194	92	66	178	394	732	1235	1882	2639	3384	3963	4324	4518	4610

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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