

Climatology of the United States

No. 20

1971-2000

Station: MCCOLL 3 NNW, SC

COOP ID: 385633

Climate Division: SC 4

NWS Call Sign:

Elevation: 190 Feet Lat: 34°42N Lon: 79°34W

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	54.4	33.0	43.7	82+	1975	31	57.2	1974	-5	1985	21	33.9	1977	664	0	.0	.0	21.0	.4	15.5	.1
Feb	59.3	35.6	47.5	85	1982	24	54.7	1976	7	1973	12	37.9	1978	492	0	.0	.0	22.1	.3	11.3	.0
Mar	67.2	42.1	54.7	91	1974	10	60.4	1974	8	1980	3	49.1	1981	331	11	.0	.1	29.6	.1	5.9	.0
Apr	75.9	49.3	62.6	95	1981	28	67.8	1985	25	1982	7	56.5	1983	119	47	.0	1.5	30.0	.0	.7	.0
May	82.7	58.3	70.5	101	1953	31	74.0	1985	34+	1989	8	66.2	1992	19	190	.0	5.3	31.0	.0	.0	.0
Jun	89.0	65.9	77.5	107	1954	27	81.8	1986	46+	1988	5	73.1	1997	0	374	.5	16.4	30.0	.0	.0	.0
Jul	91.5	69.8	80.7	106+	1977	8	85.0	1986	48	1988	1	77.6	1988	0	485	1.6	21.9	31.0	.0	.0	.0
Aug	89.3	68.2	78.8	107	1980	1	83.1	1980	51	1965	30	75.2	1976	0	427	.8	16.7	31.0	.0	.0	.0
Sep	84.5	63.0	73.8	103	1954	6	78.5	1978	39	1950	26	68.3	1999	11	273	.1	6.5	30.0	.0	.0	.0
Oct	74.9	50.4	62.7	100	1954	5	69.8	1984	23	1962	27	54.1	1988	156	84	.0	.3	31.0	.0	.8	.0
Nov	66.0	41.9	54.0	88+	1974	2	62.6	1985	13	1950	26	47.3	1976	345	14	.0	.0	28.9	.0	6.4	.0
Dec	57.1	35.1	46.1	81+	1998	1	56.1	1971	5	1983	25	37.2	2000	594	7	.0	.0	23.8	.2	13.4	.0
Ann	74.3	51.1	62.7	107+	Aug 1980	1	85.0	Jul 1986	-5	Jan 1985	21	33.9	Jan 1977	2731	1912	3.0	68.7	339.4	1.0	54.0	.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

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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: MCCOLL 3 NNW, SC

COOP ID: 385633

Climate Division: SC 4

NWS Call Sign:

Elevation: 190 Feet Lat: 34°42N

Lon: 79°34W

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	3.71	3.96	2.40	2000	23	6.50	2000	.88	1981	8.4	6.7	2.7	1.0	1.10	1.46	1.98	2.44	2.88	3.34	3.85	4.45	5.22	6.43	7.55
Feb	3.27	2.30	4.75	1973	2	8.29	1973	.95	1986	6.7	5.6	2.6	.9	.82	1.12	1.60	2.02	2.44	2.88	3.37	3.95	4.72	5.93	7.06
Mar	3.74	3.09	2.55	1971	3	10.67	1980	.70	1985	9.0	7.5	3.1	1.0	.86	1.20	1.75	2.24	2.73	3.25	3.84	4.53	5.45	6.91	8.28
Apr	2.21	1.79	3.78	1955	13	5.96	1978	.15	1986	5.7	4.5	1.8	.6	.17	.31	.60	.90	1.24	1.63	2.10	2.69	3.50	4.88	6.23
May	2.82	2.36	2.73	1969	26	7.45	1974	.66	1994	7.8	5.9	2.3	.6	.62	.88	1.30	1.67	2.04	2.44	2.89	3.42	4.12	5.25	6.30
Jun	3.72	3.66	4.48	1994	30	7.89	1995	.54	1993	7.6	6.6	2.7	1.2	.81	1.15	1.70	2.19	2.69	3.21	3.80	4.51	5.45	6.94	8.34
Jul	4.20	3.52	4.65	1961	18	11.94	1975	.14	1977	8.0	6.9	2.8	1.3	.54	.87	1.47	2.06	2.67	3.36	4.16	5.14	6.47	8.65	10.76
Aug	3.75	3.93	2.93	1952	24	8.50	1985	.86	1975	8.4	6.8	2.9	.8	1.23	1.58	2.10	2.55	2.98	3.42	3.90	4.47	5.20	6.33	7.38
Sep	3.60	3.76	4.45	1955	3	8.75	1999	.00	1985	6.1	5.5	2.6	1.2	.43	.87	1.48	1.99	2.51	3.07	3.69	4.44	5.43	7.02	8.52
Oct	2.50	2.17	6.95	1954	15	8.41	1971	.00+	2000	5.0	4.1	1.8	1.0	.00	.22	.64	1.03	1.45	1.91	2.45	3.10	4.00	5.50	6.96
Nov	2.76	2.67	2.85	1963	6	6.23	1985	.34	1973	6.1	5.2	2.1	.7	.72	.98	1.38	1.73	2.08	2.44	2.85	3.33	3.95	4.93	5.85
Dec	2.76	1.96	2.90	1959	18	7.09	1973	.00	1984	7.8	5.9	2.0	.7	.19	.47	.91	1.32	1.74	2.21	2.75	3.41	4.31	5.77	7.18
Ann	39.04	39.62	6.95	Oct 1954	15	11.94	Jul 1975	.00+	Oct 2000	86.6	71.2	29.4	11.0	24.06	26.80	30.40	33.18	35.70	38.16	40.73	43.61	47.15	52.36	56.93

+ 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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Station: MCCOLL 3 NNW, SC

COOP ID: 385633

Climate Division: SC 4

NWS Call Sign:

Elevation: 190 Feet

Lat: 34°42N

Lon: 79°34W

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	4.0	1973	8	5.0	1988	5	1988	10	1	1988	.2	.2	.1	.0	.0	.5	.4	.1	.0
Feb	.7	.0	#	0	15.0	1973	10	15.0	1973	15	1973	10	1	1979	.2	.1	.1	.1	@	.2	.2	.1	@
Mar	.1	.0	0	0	2.3	1971	26	2.3	1971	10	1980	2	1	1980	@	@	.0	.0	.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	#	1987	11	#+	1987	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	2.5	1971	3	2.5+	1973	2	1980	27	#+	1999	.1	.1	.0	.0	.0	.1	.0	.0	.0
Ann	1.7	.0	N/A	N/A	15.0	Feb 1973	10	15.0	Feb 1973	15	Feb 1973	10	1+	Jan 1988	.5	.4	.2	.1	@	.8	.6	.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

Complete documentation available from:

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Climate Division: SC 4

NWS Call Sign:

Elevation: 190 Feet

Lat: 34° 42N

Lon: 79° 34W

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	4/25	4/20	4/17	4/14	4/11	4/08	4/05	4/02	3/28
32	4/14	4/08	4/04	4/01	3/28	3/25	3/22	3/17	3/12
28	4/06	3/29	3/24	3/19	3/14	3/10	3/05	2/27	2/19
24	3/12	3/05	3/01	2/25	2/21	2/18	2/14	2/09	2/03
20	3/05	2/23	2/15	2/09	2/03	1/28	1/22	1/14	1/02
16	2/13	2/06	1/31	1/26	1/21	1/15	1/06	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	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/03	11/09
32	10/14	10/20	10/25	10/29	11/01	11/05	11/08	11/13	11/19
28	10/28	11/03	11/07	11/11	11/15	11/18	11/22	11/26	12/02
24	11/09	11/17	11/24	11/29	12/04	12/09	12/14	12/20	12/29
20	12/01	12/09	12/14	12/19	12/24	12/28	1/02	1/08	1/18
16	12/21	12/29	1/05	1/11	1/17	1/24	2/03	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	216	209	204	200	196	192	188	183	176
32	242	233	227	222	217	212	207	201	192
28	274	264	256	250	245	239	233	226	216
24	313	303	296	290	285	279	273	267	257
20	>365	362	341	329	320	312	303	294	281
16	>365	>365	>365	>365	>365	353	343	334	323

* 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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Climate Division: SC 4 NWS Call Sign: Elevation: 190 Feet Lat: 34°42N Lon: 79°34W

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	664	492	331	119	19	0	0	0	11	156	345	594	2731
60	520	362	203	46	3	0	0	0	2	81	223	449	1889
57	436	287	143	21	0	0	0	0	1	49	164	369	1470
55	384	241	109	11	0	0	0	0	0	33	130	319	1227
50	268	147	46	2	0	0	0	0	0	11	63	213	750
32	32	5	0	0	0	0	0	0	0	0	0	18	55

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	396	437	702	918	1194	1364	1508	1450	1253	951	659	454	11286
55	34	29	99	239	481	674	795	737	563	271	99	42	4063
57	25	19	70	189	419	614	733	675	503	225	73	30	3575
60	15	10	38	124	328	524	640	582	414	164	42	17	2898
65	0	0	11	47	190	374	485	427	273	84	14	7	1912
70	0	0	1	11	86	232	330	274	152	34	3	0	1123

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	193	262	470	687	954	1134	1268	1209	1020	711	434	238	193	455	925	1612	2566	3700	4968	6177	7197	7908	8342	8580
45	105	159	326	537	799	984	1113	1054	870	557	298	143	105	264	590	1127	1926	2910	4023	5077	5947	6504	6802	6945
50	51	83	205	389	644	834	958	899	720	407	184	73	51	134	339	728	1372	2206	3164	4063	4783	5190	5374	5447
55	24	36	111	255	490	684	803	744	570	269	101	35	24	60	171	426	916	1600	2403	3147	3717	3986	4087	4122
60	1	11	46	144	338	535	648	589	422	155	45	11	1	12	58	202	540	1075	1723	2312	2734	2889	2934	2945
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	116	169	299	441	635	767	865	837	695	458	273	150	116	285	584	1025	1660	2427	3292	4129	4824	5282	5555	5705

(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.

- 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/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