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: MCCLELLANVILLE, SC **COOP ID: 385628**

Climate Division: SC 7 **NWS Call Sign:** **Elevation: 12 Feet** **Lat: 33˚04N** **Lon: 79˚28W**

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	36.0	46.8	81	1972	28	59.3	1974	4	1985	21	36.1	1977	576	0	.0	.0	25.9	.1	11.5	.0
Feb	60.6	37.6	49.1	81+	2001	26	56.5	1990	13	1996	5	37.8	1978	447	2	.0	.0	24.8	.1	9.1	.0
Mar	67.4	44.2	55.8	89+	1974	10	61.3	1997	13+	1980	3	50.6	1971	296	10	.0	.0	30.3	@	4.6	.0
Apr	74.7	51.2	63.0	93+	1989	27	67.5	1991	23	1983	20	58.7	1983	104	42	.0	.5	30.0	.0	.8	.0
May	81.9	60.5	71.2	97	1962	27	77.6	1991	36	1963	2	68.5	1976	12	204	.0	1.7	31.0	.0	.0	.0
Jun	87.7	68.0	77.9	104	1990	21	82.3	1981	43	1984	1	73.7	1972	0	385	.1	8.1	30.0	.0	.0	.0
Jul	91.0	72.0	81.5	104	1999	31	83.6	1993	54+	1988	2	78.8	1975	0	510	.4	17.0	31.0	.0	.0	.0
Aug	89.4	70.6	80.0	104	1999	1	83.0	1999	55+	1994	26	76.7	1976	0	465	.2	13.0	31.0	.0	.0	.0
Sep	84.5	65.6	75.1	96+	1994	1	77.4	1977	41	1983	23	72.4+	1984	1	302	.0	4.4	30.0	.0	.0	.0
Oct	76.8	54.5	65.7	95	1986	5	71.9	1985	28	1976	28	59.9	1987	94	114	.0	.2	31.0	.0	.2	.0
Nov	68.9	45.5	57.2	89	1961	5	66.2	1985	17	1970	25	49.1	1976	260	27	.0	.0	29.5	.0	4.4	.0
Dec	60.6	38.5	49.6	88	1972	11	57.7	1971	5	1983	26	40.6	1989	485	6	.0	.0	27.2	.1	8.8	.0
Ann	75.1	53.7	64.4	104+	Aug 1999	1	83.6	Jul 1993	4	Jan 1985	21	36.1	Jan 1977	2275	2067	.7	44.9	351.7	.3	39.4	.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: 1957-2001

(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	4.51	4.50	3.51	1998	23	10.42	1998	.85	1981
Feb	3.36	2.70	2.95	1965	7	9.97	1998	.60	1976
Mar	4.42	4.19	4.45	1983	17	11.22	1983	1.60	1999
Apr	3.12	2.84	4.86	1997	28	7.83	1984	.00	1972
May	3.28	2.93	3.65	1967	23	7.66	1976	.70	1983
Jun	5.63	4.87	4.54	1997	28	16.55	1973	1.41	1988
Jul	6.21	6.02	4.25	1959	9	12.26	1975	.70	1987
Aug	6.52	5.87	4.70	1964	29	15.77	1971	.40	1980
Sep	6.09	5.87	10.26	1999	15	14.18	1999	.59	1990
Oct	3.88	3.10	7.45	1990	11	14.32	1971	.00	2000
Nov	3.05	2.29	6.15	1985	4	10.71	1985	.79	1996
Dec	3.41	2.93	3.62	1964	27	8.59	1994	.67	1984
Ann	53.48	51.65	10.26	Sep 1999	15	16.55	Jun 1973	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.9	8.0	3.1	1.0
Feb	9.2	5.6	2.4	1.0
Mar	10.0	5.9	3.0	1.2
Apr	7.6	4.6	2.0	1.0
May	8.4	5.0	2.2	.8
Jun	10.9	6.9	3.4	1.6
Jul	11.6	7.9	3.9	2.1
Aug	13.3	8.6	3.9	1.8
Sep	10.7	6.7	3.3	1.8
Oct	7.7	4.6	2.3	1.2
Nov	9.2	4.9	1.7	.7
Dec	9.9	5.9	2.2	1.0
Ann	120.4	74.6	33.4	15.2

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	1.38	1.81	2.45	3.00	3.53	4.08	4.69	5.41	6.33	7.77	9.11
Feb	.86	1.18	1.67	2.10	2.52	2.97	3.47	4.06	4.83	6.04	7.18
Mar	1.66	2.07	2.66	3.16	3.63	4.11	4.63	5.23	6.00	7.18	8.26
Apr	.29	.65	1.16	1.61	2.08	2.59	3.16	3.86	4.78	6.29	7.72
May	.82	1.13	1.61	2.03	2.45	2.89	3.39	3.97	4.74	5.95	7.09
Jun	1.25	1.77	2.60	3.34	4.09	4.88	5.77	6.83	8.24	10.47	12.58
Jul	2.07	2.66	3.52	4.25	4.95	5.68	6.47	7.40	8.59	10.44	12.15
Aug	1.62	2.23	3.18	4.03	4.86	5.74	6.72	7.89	9.42	11.84	14.10
Sep	1.12	1.66	2.55	3.38	4.22	5.14	6.17	7.43	9.09	11.77	14.33
Oct	.10	.35	.86	1.41	2.03	2.75	3.62	4.73	6.28	8.89	11.49
Nov	.57	.84	1.29	1.70	2.12	2.58	3.10	3.72	4.55	5.88	7.15
Dec	.83	1.15	1.65	2.09	2.53	2.99	3.51	4.13	4.94	6.22	7.42
Ann	39.69	42.41	45.86	48.47	50.78	53.00	55.28	57.80	60.84	65.23	69.00

\+ 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

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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	#	.0	#	0	#	1987	27	#+	1987	#+	2000	26	#+	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	1.0	1996	16	1.0	1996	1	1996	16	#	1996	.1	@	.0	.0	.0	@	.0	.0	.0
Mar	#	.0	#	0	#	1983	25	#	1983	2	1980	2	#	1980	.0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	1.0	1980	27	1.0	1980	9	1989	24	1	1989	@	@	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.0+	Feb 1996	16	1.0+	Feb 1996	9	Dec 1989	24	1	Dec 1989	.1	@	.0	.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	4/23	4/17	4/14	4/10	4/07	4/04	4/01	3/28	3/23
32	4/16	4/09	4/05	3/31	3/27	3/24	3/19	3/14	3/08
28	3/30	3/23	3/17	3/13	3/08	3/04	2/27	2/22	2/15
24	3/20	3/12	3/05	2/28	2/23	2/18	2/12	2/06	1/28
20	2/27	2/19	2/13	2/07	2/02	1/28	1/22	1/13	0/00
16	2/05	1/24	1/14	12/31	0/00	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	10/15	10/21	10/25	10/29	11/01	11/04	11/08	11/12	11/18
32	10/26	11/02	11/06	11/10	11/14	11/17	11/21	11/26	12/02
28	11/08	11/15	11/20	11/25	11/29	12/03	12/08	12/13	12/20
24	11/17	11/27	12/05	12/11	12/17	12/23	12/29	1/05	1/15
20	12/09	12/21	12/29	1/06	1/13	1/21	1/31	2/14	0/00
16	12/28	1/09	1/20	2/02	0/00	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	228	221	216	211	207	203	199	193	186
32	261	250	243	237	231	225	218	211	200
28	294	284	277	271	265	259	253	246	236
24	341	321	310	301	293	286	278	269	256
20	>365	>365	>365	355	339	330	322	314	303
16	>365	>365	>365	>365	>365	>365	>365	>365	343

***** 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	576	447	296	104	12	0	0	0	1	94	260	485	2275
60	436	319	171	34	1	0	0	0	0	39	155	343	1498
57	359	247	113	13	0	0	0	0	0	20	106	266	1124
55	312	204	82	6	0	0	0	0	0	12	78	221	915
50	214	119	29	0	0	0	0	0	0	3	30	131	526
32	21	3	0	0	0	0	0	0	0	0	0	4	28

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	480	481	736	928	1216	1375	1533	1488	1291	1043	756	548	11875
55	58	38	106	245	503	685	820	775	601	342	145	52	4370
57	43	25	75	192	441	625	758	713	541	288	112	35	3848
60	27	13	39	123	349	535	665	620	451	214	71	19	3126
65	0	2	10	42	204	385	510	465	302	114	27	6	2067
70	0	0	0	8	92	239	355	310	160	45	8	0	1217

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	278	319	519	702	958	1127	1271	1233	1062	809	537	338	278	597	1116	1818	2776	3903	5174	6407	7469	8278	8815	9153
45	165	202	375	552	803	977	1116	1078	912	654	395	214	165	367	742	1294	2097	3074	4190	5268	6180	6834	7229	7443
50	83	112	240	403	648	827	961	923	762	500	264	121	83	195	435	838	1486	2313	3274	4197	4959	5459	5723	5844
55	32	52	132	268	493	677	806	768	612	350	162	56	32	84	216	484	977	1654	2460	3228	3840	4190	4352	4408
60	11	16	61	149	340	527	651	613	462	216	79	23	11	27	88	237	577	1104	1755	2368	2830	3046	3125	3148
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	165	200	325	452	644	784	890	871	743	534	339	202	165	365	690	1142	1786	2570	3460	4331	5074	5608	5947	6149

(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