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: LORIS 1 S, SC **COOP ID: 385306**

Climate Division: SC 4 **NWS Call Sign:** **Elevation: 90 Feet** **Lat: 34˚03N** **Lon: 78˚52W**

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	56.1	32.8	44.5	83+	1974	27	56.9	1974	2+	1985	22	34.4	1977	644	0	.0	.0	22.5	.4	15.8	.0
Feb	59.8	34.3	47.1	85+	1997	28	53.9	1990	2	1973	12	37.8	1978	503	0	.0	.0	21.6	.3	13.1	.0
Mar	67.1	40.4	53.8	89	1985	31	60.1	1997	12	1980	4	46.1	1971	358	9	.0	.0	29.0	.1	7.0	.0
Apr	75.0	47.3	61.2	94	1967	8	65.2	1977	26	1985	10	56.3	1971	148	32	.0	.5	29.9	.0	1.0	.0
May	81.9	56.5	69.2	101	1953	27	72.7	1991	33	1963	2	64.0	1971	30	160	.0	3.0	31.0	.0	.0	.0
Jun	87.3	64.6	76.0	107+	1952	28	80.8	1981	47+	1984	1	71.0	1972	1	329	.1	9.9	30.0	.0	.0	.0
Jul	90.9	69.1	80.0	104	1959	1	83.0	1986	53+	1988	2	76.7	1971	0	465	.3	19.9	31.0	.0	.0	.0
Aug	89.5	67.9	78.7	104	1999	2	81.8	1999	53+	1979	19	76.3	1971	0	424	.2	14.1	31.0	.0	.0	.0
Sep	84.8	62.3	73.6	98+	1957	1	78.0	1980	40+	1950	26	71.0	1994	4	261	.0	5.1	30.0	.0	.0	.0
Oct	76.6	50.0	63.3	98	1954	6	69.8	1985	25+	1976	29	56.9	1987	139	85	.0	.4	31.0	.0	.7	.0
Nov	68.7	41.3	55.0	87	1958	17	65.3	1985	13	1950	26	48.5	1976	317	18	.0	.0	29.0	.0	6.6	.0
Dec	59.2	34.8	47.0	82+	1998	9	54.9	1971	9+	1983	26	36.8	1989	560	2	.0	.0	24.2	.2	13.7	.0
Ann	74.7	50.1	62.5	107+	Jun 1952	28	83.0	Jul 1986	2+	Jan 1985	22	34.4	Jan 1977	2704	1785	.6	52.9	340.2	1.0	57.9	.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: 1948-2001

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

Issue Date: February 2004

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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	4.66	4.82	2.50	1993	7	8.99	1993	.95	1981
Feb	3.72	3.22	4.50	1973	10	10.73	1998	.64	1976
Mar	4.26	3.68	4.52	1983	18	10.18	1983	1.26	1982
Apr	2.87	2.97	2.99	1988	13	6.40	1982	.09	1976
May	4.28	4.19	3.19	1966	22	12.46	1974	1.20	1987
Jun	5.33	4.96	3.32	1999	16	11.25	1995	.43	1990
Jul	5.79	5.22	4.95	1960	30	13.32	1981	1.96	1980
Aug	6.52	6.22	7.01	1974	17	18.39	1974	1.31	1997
Sep	5.62	4.39	10.02	1999	16	21.82	1999	.95	1971
Oct	2.94	2.52	4.29	1973	1	8.56	1999	.02	2000
Nov	2.90	2.71	4.52	1948	24	6.67	1992	.72	1981
Dec	3.57	3.37	2.59	1978	25	9.36	1973	.60	1988
Ann	52.46	52.49	10.02	Sep 1999	16	21.82	Sep 1999	.02	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.4	7.7	3.5	1.3
Feb	8.9	5.6	2.2	1.1
Mar	9.6	6.6	3.0	1.2
Apr	6.9	4.8	2.0	.9
May	9.4	6.4	2.8	1.2
Jun	10.0	7.3	3.4	1.8
Jul	11.7	7.5	3.8	1.9
Aug	11.3	8.2	3.6	2.3
Sep	9.6	6.6	3.1	1.7
Oct	6.4	4.1	1.9	1.0
Nov	7.4	4.3	1.7	.9
Dec	9.6	6.2	2.4	1.1
Ann	112.2	75.3	33.4	16.4

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	1.67	2.11	2.74	3.27	3.78	4.30	4.87	5.52	6.37	7.66	8.86
Feb	.85	1.20	1.74	2.23	2.72	3.24	3.82	4.51	5.42	6.87	8.23
Mar	1.53	1.93	2.51	3.00	3.46	3.94	4.45	5.06	5.83	7.02	8.11
Apr	.35	.57	.98	1.38	1.80	2.28	2.83	3.51	4.43	5.95	7.43
May	1.45	1.86	2.45	2.95	3.43	3.92	4.47	5.10	5.91	7.16	8.32
Jun	1.63	2.14	2.89	3.54	4.17	4.83	5.54	6.39	7.48	9.18	10.76
Jul	2.13	2.67	3.46	4.11	4.73	5.37	6.06	6.86	7.89	9.47	10.91
Aug	1.46	2.07	3.02	3.88	4.74	5.66	6.68	7.91	9.53	12.10	14.53
Sep	.80	1.26	2.07	2.85	3.67	4.56	5.60	6.87	8.58	11.37	14.06
Oct	.25	.45	.83	1.24	1.69	2.20	2.81	3.57	4.63	6.40	8.14
Nov	.83	1.11	1.52	1.88	2.23	2.60	3.00	3.48	4.10	5.07	5.98
Dec	1.13	1.47	1.97	2.40	2.81	3.24	3.71	4.27	4.98	6.09	7.12
Ann	38.98	41.64	45.01	47.55	49.80	51.97	54.20	56.65	59.61	63.89	67.56

+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.3	.0	#	0
Feb	.5	.0	#	0
Mar	.6	.0	#	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.7	.0	#	0
Ann	2.1	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	2.0	1988	8	5.0	1988	3	1988	16	#+	1992
Feb	3.0	1989	24	4.8	1980	3+	1989	24	#+	1989
Mar	7.0	1983	25	7.0+	1983	7	1983	25	#+	1992
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	12.0	1989	24	14.5	1989	14	1989	25	2	1989
Ann	12.0	Dec 1989	24	14.5	Dec 1989	14	Dec 1989	25	2	Dec 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.2	.0	.0	.0
Feb	.3	.2	@	.0	.0
Mar	.2	.1	.1	.1	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.2	.1	@	@	@
Ann	.9	.6	.1	.1	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	.0	.0
Feb	.2	.1	.0	.0
Mar	.1	.1	.1	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.3	.2	.2	.1
Ann	.8	.4	.3	.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	4/27	4/22	4/18	4/15	4/12	4/08	4/05	4/01	3/27
32	4/17	4/11	4/06	4/03	3/30	3/27	3/23	3/19	3/13
28	4/05	3/28	3/22	3/16	3/12	3/07	3/01	2/23	2/15
24	3/10	3/04	2/27	2/23	2/20	2/16	2/12	2/07	2/01
20	3/03	2/22	2/15	2/09	2/04	1/29	1/22	1/12	0/00
16	2/10	2/01	1/25	1/17	1/06	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	10/09	10/15	10/19	10/23	10/27	10/30	11/03	11/07	11/13
32	10/17	10/24	10/29	11/02	11/06	11/10	11/14	11/19	11/26
28	11/01	11/08	11/12	11/16	11/20	11/24	11/28	12/03	12/10
24	11/15	11/24	12/01	12/07	12/12	12/18	12/23	12/30	1/09
20	11/26	12/10	12/20	12/28	1/06	1/14	1/24	2/07	0/00
16	12/23	1/04	1/14	1/24	2/07	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	223	214	208	202	197	192	187	181	172
32	248	238	231	225	220	215	209	202	192
28	287	276	267	260	253	246	239	231	219
24	322	311	304	298	293	288	282	276	267
20	>365	>365	>365	341	329	319	310	301	288
16	>365	>365	>365	>365	>365	>365	>365	347	326

***** 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	644	503	358	148	30	1	0	0	4	139	317	560	2704
60	499	371	225	63	5	0	0	0	0	68	200	418	1849
57	416	294	161	31	1	0	0	0	0	40	144	337	1424
55	365	247	125	18	0	0	0	0	0	26	112	287	1180
50	253	150	56	3	0	0	0	0	0	8	50	183	703
32	28	4	0	0	0	0	0	0	0	0	0	10	42

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	414	426	674	874	1153	1318	1488	1447	1247	969	691	475	11176
55	38	24	86	202	440	628	775	734	557	282	113	38	3917
57	27	16	60	155	379	568	713	672	497	234	84	26	3431
60	17	8	31	97	290	478	620	579	407	169	50	14	2760
65	0	0	9	32	160	329	465	424	261	85	18	2	1785
70	0	0	0	6	68	189	310	269	129	32	4	0	1007

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	206	252	444	643	915	1082	1236	1197	1002	717	451	262	206	458	902	1545	2460	3542	4778	5975	6977	7694	8145	8407
45	112	157	304	495	760	932	1081	1042	852	563	315	155	112	269	573	1068	1828	2760	3841	4883	5735	6298	6613	6768
50	55	85	188	351	605	782	926	887	702	409	197	82	55	140	328	679	1284	2066	2992	3879	4581	4990	5187	5269
55	24	39	101	222	450	632	771	732	552	272	109	43	24	63	164	386	836	1468	2239	2971	3523	3795	3904	3947
60	1	13	41	121	304	482	616	577	403	155	48	15	1	14	55	176	480	962	1578	2155	2558	2713	2761	2776
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	139	177	290	416	604	743	854	831	685	466	297	169	139	316	606	1022	1626	2369	3223	4054	4739	5205	5502	5671

(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