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: LAKE CITY 2 SE, SC **COOP ID: 384886**

Climate Division: SC 4 **NWS Call Sign:** **Elevation: 75 Feet** **Lat: 33˚51N** **Lon: 79˚44W**

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	56.2	32.1	44.2	81+	1999	24	57.2	1974	2+	1985	22	32.7	1977	654	0	.0	.0	22.5	.4	15.3	.0
Feb	60.1	34.0	47.1	84+	1997	28	53.9	1990	5+	1973	13	37.7	1978	503	0	.0	.0	21.8	.3	12.2	.0
Mar	67.6	41.0	54.3	89+	1985	30	60.5	1997	10+	1980	4	46.9	1971	342	12	.0	.0	29.5	@	6.1	.0
Apr	75.6	47.4	61.5	94	1960	25	65.4+	1981	26+	1983	21	56.3	1983	140	35	.0	.7	30.0	.0	.9	.0
May	82.5	56.8	69.7	101+	1953	31	73.8	2000	35	1989	8	66.4+	1997	28	171	.0	3.8	31.0	.0	.0	.0
Jun	88.0	64.9	76.5	106	1954	27	80.8	1981	46+	1988	6	72.3	1972	1	344	.4	12.7	30.0	.0	.0	.0
Jul	91.7	69.3	80.5	105+	1986	21	84.6	1986	53	1988	2	77.8	1975	0	481	1.0	22.2	31.0	.0	.0	.0
Aug	89.7	68.1	78.9	106	1954	17	83.5	1999	55+	1979	19	75.6	1976	0	430	.7	17.2	31.0	.0	.0	.0
Sep	85.0	62.3	73.7	100	1957	3	78.4	1980	42+	1984	21	70.5	1984	4	263	.0	7.5	30.0	.0	.0	.0
Oct	76.2	50.1	63.2	101	1954	5	69.8	1985	26+	1976	30	57.0	1976	142	84	.0	.4	30.9	.0	.5	.0
Nov	68.1	40.9	54.5	89	1961	1	65.7	1985	17+	1950	26	45.9	1976	334	19	.0	.0	29.2	.0	6.7	.0
Dec	59.0	34.2	46.6	82+	1984	31	54.3	1971	6	1989	25	37.0	1989	570	1	.0	.0	25.0	.2	13.1	@
Ann	75.0	50.1	62.6	106+	Aug 1954	17	84.6	Jul 1986	2+	Jan 1985	22	32.7	Jan 1977	2718	1840	2.1	64.5	341.9	.9	54.8	@

\+ 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

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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	4.44	4.69	3.60	1999	24	7.84	1995	1.06	1981
Feb	3.48	3.09	3.68	1998	17	9.16	1998	.77	2000
Mar	4.61	4.12	6.50	1983	18	13.43	1983	.65	1985
Apr	3.05	2.85	2.70	1978	26	6.74	1998	.11	1976
May	3.37	3.17	3.70	1966	27	9.15	1972	.79	1993
Jun	4.24	3.97	3.80	1960	26	9.69	1973	.88	1990
Jul	5.56	5.11	4.20	1960	29	13.38	1984	1.58	1986
Aug	6.27	5.65	5.38	1986	20	13.75	1990	2.00	1983
Sep	4.75	4.01	8.20	1979	5	20.62	1979	.70	1981
Oct	2.92	2.59	7.30	1990	11	12.03	1990	.00	2000
Nov	2.62	2.33	2.64	1978	30	7.68	1985	.00	1999
Dec	3.79	3.09	6.44	1994	23	11.00	1994	.77	1988
Ann	49.10	49.94	8.20	Sep 1979	5	20.62	Sep 1979	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.5	7.4	3.1	1.1
Feb	7.7	5.7	2.3	.9
Mar	7.9	6.4	3.0	1.5
Apr	6.5	4.8	2.1	.9
May	7.6	6.0	2.4	.7
Jun	8.8	6.6	3.1	1.1
Jul	9.9	7.9	3.5	1.9
Aug	9.7	7.8	3.9	2.2
Sep	7.4	5.4	2.6	1.6
Oct	5.2	3.9	1.7	.9
Nov	5.9	4.5	2.1	.7
Dec	7.8	6.2	2.4	1.0
Ann	93.9	72.6	32.2	14.5

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	1.42	1.85	2.47	3.00	3.51	4.04	4.63	5.31	6.18	7.55	8.81
Feb	.84	1.17	1.68	2.13	2.58	3.05	3.58	4.22	5.05	6.36	7.59
Mar	1.33	1.77	2.43	3.00	3.56	4.14	4.79	5.55	6.53	8.07	9.50
Apr	.47	.73	1.17	1.60	2.03	2.51	3.05	3.72	4.62	6.07	7.47
May	1.08	1.40	1.87	2.28	2.67	3.07	3.51	4.03	4.70	5.74	6.70
Jun	1.25	1.66	2.26	2.78	3.29	3.82	4.40	5.09	5.98	7.37	8.66
Jul	1.69	2.22	3.01	3.69	4.35	5.03	5.78	6.67	7.81	9.59	11.24
Aug	2.21	2.80	3.66	4.38	5.07	5.78	6.55	7.45	8.60	10.38	12.02
Sep	.66	1.05	1.73	2.39	3.08	3.84	4.72	5.80	7.26	9.64	11.94
Oct	.10	.33	.74	1.17	1.63	2.16	2.79	3.57	4.66	6.48	8.27
Nov	.35	.68	1.12	1.49	1.87	2.26	2.70	3.22	3.91	5.02	6.06
Dec	.99	1.35	1.90	2.38	2.86	3.36	3.91	4.57	5.43	6.78	8.05
Ann	37.71	39.98	42.85	45.01	46.91	48.73	50.60	52.65	55.13	58.68	61.72

+ 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	.4	.0	#	0
Feb	1.3	.0	#	0
Mar	.2	.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	#	.0	#	0
Ann	1.9	.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	4.0	2000	25	4.0	2000	7	1988	10	1	1988
Feb	10.0	1973	11	17.5	1973	18	1973	11	2	1973
Mar	2.5	1983	25	2.5	1983	2	1983	25	#	1983
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	#	1988	17	#+	1988	8	1989	24	#	1989
Ann	10.0	Feb 1973	11	17.5	Feb 1973	18	Feb 1973	11	2	Feb 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	.0	.0
Feb	.2	.2	.1	.1	.1
Mar	.1	.1	.0	.0	.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	.0	.0	.0	.0	.0
Ann	.5	.4	.2	.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.0	.0	.0
Feb	.3	.2	.2	.1
Mar	@	.0	.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	.0	.0	.0	.0
Ann	.3	.2	.2	.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	4/21	4/17	4/13	4/09	4/06	4/02	3/29	3/22
32	4/15	4/08	4/03	3/30	3/26	3/22	3/18	3/13	3/06
28	3/29	3/22	3/16	3/11	3/07	3/02	2/25	2/19	2/12
24	3/13	3/05	2/28	2/23	2/19	2/14	2/10	2/04	1/28
20	3/02	2/19	2/11	2/03	1/27	1/19	1/09	12/22	0/00
16	2/12	2/01	1/24	1/16	1/06	12/21	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	10/18	10/21	10/25	10/27	10/30	11/02	11/06	11/11
32	10/23	10/29	11/02	11/05	11/08	11/11	11/15	11/19	11/24
28	11/03	11/10	11/15	11/19	11/23	11/27	12/01	12/06	12/13
24	11/18	11/27	12/03	12/08	12/13	12/17	12/23	12/29	1/06
20	12/02	12/15	12/25	1/02	1/10	1/19	1/31	2/20	0/00
16	12/21	1/02	1/11	1/20	1/31	2/18	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	226	217	211	205	200	195	190	183	175
32	252	243	237	232	227	222	216	210	202
28	290	280	273	267	261	255	249	242	232
24	326	314	307	300	295	289	283	276	266
20	>365	>365	>365	>365	347	331	319	308	295
16	>365	>365	>365	>365	>365	>365	>365	342	325

***** 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	654	503	342	140	28	1	0	0	4	142	334	570	2718
60	509	372	214	58	5	0	0	0	0	71	217	427	1873
57	427	297	154	28	1	0	0	0	0	42	160	345	1454
55	376	251	119	16	0	0	0	0	0	28	127	294	1211
50	263	155	54	3	0	0	0	0	0	9	61	187	732
32	32	6	0	0	0	0	0	0	0	0	0	10	48

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	409	428	693	885	1167	1334	1504	1453	1249	966	675	464	11227
55	40	28	99	211	454	644	791	740	559	281	111	34	3992
57	29	19	71	163	393	584	729	678	499	233	84	23	3505
60	18	10	39	103	304	494	636	585	410	169	51	13	2832
65	0	0	12	35	171	344	481	430	263	84	19	1	1840
70	0	0	1	7	76	203	326	275	132	32	5	0	1057

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	214	267	470	665	937	1111	1273	1227	1029	740	463	266	214	481	951	1616	2553	3664	4937	6164	7193	7933	8396	8662
45	123	168	328	517	782	961	1118	1072	879	585	330	158	123	291	619	1136	1918	2879	3997	5069	5948	6533	6863	7021
50	60	94	207	370	627	811	963	917	729	430	206	83	60	154	361	731	1358	2169	3132	4049	4778	5208	5414	5497
55	28	42	114	240	473	661	808	762	579	287	117	44	28	70	184	424	897	1558	2366	3128	3707	3994	4111	4155
60	6	13	51	133	323	511	653	607	429	167	55	19	6	19	70	203	526	1037	1690	2297	2726	2893	2948	2967
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	141	185	301	429	622	761	869	849	701	482	307	173	141	326	627	1056	1678	2439	3308	4157	4858	5340	5647	5820

(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.
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