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: LITTLE MOUNTAIN, SC **COOP ID: 385200**

Climate Division: SC 5 **NWS Call Sign:** **Elevation: 711 Feet** **Lat: 34˚12N** **Lon: 81˚25W**

Temperature (˚F)

Month	Mean (1)			Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
	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	52.2	32.0	42.1	84	1949	11	54.2	1974	-2	1985	21	31.4	1977	710	0	.0	.0	20.1	.6	13.5	@
Feb	56.9	34.8	45.9	82	1948	28	54.1	1976	7+	1996	5	37.3	1978	536	0	.0	.0	21.6	.3	9.9	.0
Mar	64.4	41.6	53.0	92	1945	17	58.8	1997	9	1980	3	47.4	1996	382	9	.0	.0	29.4	@	4.7	.0
Apr	72.5	49.7	61.1	93+	1960	26	66.0	1981	24	1950	7	56.9	1997	145	29	.0	.2	29.8	.0	.8	.0
May	79.9	58.5	69.2	102	1941	29	73.0	2000	37+	1963	2	65.3	1997	28	158	.0	2.3	31.0	.0	.0	.0
Jun	86.4	65.8	76.1	106	1951	3	81.2	1981	43	1970	30	71.4	1997	1	334	.2	10.2	30.0	.0	.0	.0
Jul	89.8	69.5	79.7	108+	1952	24	83.9	1986	53	1933	5	76.7	1975	0	454	.9	18.3	31.0	.0	.0	.0
Aug	87.7	68.3	78.0	107	1954	17	82.6	1980	50	1930	23	74.5	1994	0	404	.6	12.8	31.0	.0	.0	.0
Sep	82.2	62.8	72.5	106+	1954	6	77.0	1980	39	1942	29	69.5	1994	7	232	.0	5.1	30.0	.0	.0	.0
Oct	72.9	50.5	61.7	103	1954	5	69.3	1984	24	1965	30	55.2	1987	157	54	.0	.2	31.0	.0	.4	.0
Nov	64.1	42.0	53.1	91	1961	2	61.3	1985	13	1950	26	46.4	1976	366	7	.0	.0	28.6	.0	5.0	.0
Dec	55.4	34.9	45.2	81+	1955	25	54.1	1984	2	1962	13	36.7	2000	615	0	.0	.0	22.3	.2	11.4	.0
Ann	72.0	50.9	61.5	108+	Jul 1952	24	83.9	Jul 1986	-2	Jan 1985	21	31.4	Jan 1977	2947	1681	1.7	49.1	335.8	1.1	45.7	@

\+ 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: 1930-2001

(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	4.86	4.87	2.65	1968	10	8.43	1987	.57	1981
Feb	3.98	4.04	3.85	1939	26	7.32	1998	1.07	1977
Mar	4.87	4.20	3.28	1964	26	10.66	1980	.83	1985
Apr	3.07	3.13	3.95	1956	11	7.29	1982	.24	1994
May	3.31	3.02	3.50	1948	26	6.66	1979	.83	2000
Jun	4.15	3.37	4.18	1995	6	8.90	1995	.71	1993
Jul	4.88	4.50	5.58	1959	9	11.92	1975	1.24	1992
Aug	4.75	3.99	6.46	1986	18	15.70	1986	.41	1997
Sep	4.27	4.41	4.12	1959	30	8.71	1980	.31	1985
Oct	3.36	3.51	5.30	1932	16	9.65	1990	.00	2000
Nov	3.21	2.87	2.62	1940	13	8.49	1992	.46	1973
Dec	3.56	2.95	5.36	1964	26	9.74	1981	.34	1988
Ann	48.27	48.24	6.46	Aug 1986	18	15.70	Aug 1986	.00	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	7.5	3.7	1.5
Feb	8.7	6.8	2.6	1.3
Mar	9.7	7.3	3.8	1.5
Apr	7.4	5.4	2.1	.9
May	8.1	5.8	2.5	.8
Jun	8.8	6.1	2.6	1.2
Jul	10.3	7.1	2.9	1.5
Aug	10.2	7.1	2.8	1.4
Sep	8.1	5.5	2.7	1.5
Oct	6.0	4.2	2.1	1.1
Nov	7.8	5.4	2.5	1.0
Dec	9.3	6.5	2.3	.7
Ann	105.1	74.7	32.6	14.4

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	1.83	2.28	2.93	3.47	3.98	4.51	5.08	5.74	6.58	7.88	9.06
Feb	1.19	1.56	2.13	2.62	3.10	3.59	4.14	4.78	5.61	6.90	8.11
Mar	1.45	1.91	2.61	3.21	3.79	4.39	5.06	5.84	6.86	8.45	9.92
Apr	.55	.82	1.26	1.68	2.11	2.57	3.10	3.74	4.59	5.96	7.27
May	.96	1.28	1.75	2.16	2.56	2.97	3.43	3.97	4.67	5.77	6.79
Jun	1.06	1.45	2.06	2.59	3.11	3.67	4.28	5.01	5.97	7.47	8.88
Jul	1.39	1.85	2.55	3.16	3.75	4.37	5.06	5.86	6.91	8.55	10.08
Aug	1.00	1.44	2.13	2.77	3.40	4.08	4.85	5.77	6.99	8.93	10.77
Sep	.66	1.03	1.65	2.24	2.85	3.51	4.28	5.21	6.46	8.49	10.44
Oct	.13	.40	.88	1.37	1.90	2.50	3.22	4.12	5.35	7.42	9.44
Nov	.98	1.29	1.74	2.13	2.51	2.90	3.33	3.84	4.50	5.52	6.46
Dec	.80	1.13	1.65	2.12	2.59	3.09	3.65	4.32	5.20	6.60	7.92
Ann	39.00	40.88	43.24	44.99	46.53	48.00	49.50	51.14	53.10	55.90	58.29

\+ 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: 1930-2001
(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	.5	.0	#	0
Feb	1.1	.0	#	0
Mar	.8	.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
Dec	.2	.0	#	0
Ann	2.6	.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	6.6	2000	24	6.6	2000	9	2000	25	1+	2000
Feb	8.0	1973	10	8.0	1973	8	1973	10	1	1979
Mar	5.6	1971	26	5.7	1980	6	1980	2	#+	1998
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	#	1991	9	#+	1991	0	0	0	0	0
Dec	3.0	1993	23	3.0	1993	3	1971	3	#+	2000
Ann	8.0	Feb 1973	10	8.0	Feb 1973	9	Jan 2000	25	1+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.2	.1	@	.0
Feb	.4	.3	.1	.1	.0
Mar	.2	.2	.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	.1	.1	@	.0	.0
Ann	1.1	.8	.3	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.7	.4	.1	.0
Feb	.4	.2	.1	.0
Mar	.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	@	.0	.0	.0
Ann	1.2	.7	.2	.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	4/22	4/17	4/13	4/10	4/07	4/04	4/01	3/28	3/23
32	4/18	4/12	4/07	4/03	3/31	3/27	3/23	3/19	3/13
28	4/01	3/25	3/20	3/16	3/12	3/08	3/03	2/26	2/19
24	3/17	3/10	3/05	2/28	2/24	2/20	2/16	2/10	2/03
20	3/11	3/01	2/21	2/15	2/09	2/03	1/28	1/20	1/10
16	2/21	2/13	2/06	1/31	1/25	1/19	1/09	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	10/17	10/20	10/23	10/26	10/28	10/31	11/03	11/07
32	10/20	10/27	11/01	11/04	11/08	11/12	11/16	11/20	11/27
28	11/01	11/07	11/12	11/15	11/19	11/22	11/26	11/30	12/06
24	11/16	11/24	11/30	12/04	12/09	12/13	12/18	12/24	1/01
20	12/02	12/10	12/17	12/22	12/27	1/01	1/06	1/12	1/21
16	12/19	12/28	1/04	1/10	1/16	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	219	213	208	205	201	197	193	189	183
32	246	238	232	227	222	217	212	206	197
28	275	267	261	256	251	247	242	236	227
24	318	308	300	293	287	281	274	266	256
20	>365	331	323	318	312	308	302	297	288
16	>365	>365	>365	>365	>365	350	336	326	315

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	710	536	382	145	28	1	0	0	7	157	366	615	2947
60	565	401	249	60	4	0	0	0	1	76	236	470	2062
57	479	323	183	29	1	0	0	0	0	43	171	385	1614
55	424	274	145	16	0	0	0	0	0	28	135	332	1354
50	300	169	72	3	0	0	0	0	0	7	63	217	831
32	39	6	0	0	0	0	0	0	0	0	0	15	60

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	352	395	650	873	1153	1323	1477	1427	1214	920	631	423	10838
55	25	19	83	200	440	633	764	714	524	235	76	27	3740
57	18	12	58	153	379	573	702	652	464	188	53	18	3270
60	10	6	31	93	290	483	609	559	375	128	27	10	2621
65	0	0	9	29	158	334	454	404	232	54	7	0	1681
70	0	0	0	4	66	196	299	251	111	16	0	0	943

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	201	267	480	676	934	1106	1250	1202	998	714	438	249	201	468	948	1624	2558	3664	4914	6116	7114	7828	8266	8515
45	109	167	334	526	779	956	1095	1047	848	559	302	149	109	276	610	1136	1915	2871	3966	5013	5861	6420	6722	6871
50	51	89	213	381	624	806	940	892	698	406	187	77	51	140	353	734	1358	2164	3104	3996	4694	5100	5287	5364
55	25	42	118	250	469	656	785	737	548	264	102	38	25	67	185	435	904	1560	2345	3082	3630	3894	3996	4034
60	2	15	53	139	320	506	630	582	399	150	43	15	2	17	70	209	529	1035	1665	2247	2646	2796	2839	2854
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	108	162	290	427	622	765	858	834	685	450	261	144	108	270	560	987	1609	2374	3232	4066	4751	5201	5462	5606

(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