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: NINETY NINE ISLANDS, SC **COOP ID: 386293**

Climate Division: SC 2 **NWS Call Sign:** **Elevation: 500 Feet** **Lat: 35˚04N** **Lon: 81˚30W**

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	50.5	27.4	39.0	79	1975	31	50.0	1974	-4	1985	21	28.5	1977	807	0	.0	.0	17.1	.8	21.0	.1
Feb	55.1	29.5	42.3	80+	1982	24	48.6	1990	2	1967	26	34.0	1978	637	0	.0	.0	19.8	.4	17.8	.0
Mar	62.9	36.2	49.6	87+	1995	23	54.1	2000	8	1998	12	44.1	1971	480	0	.0	.0	28.2	@	11.9	.0
Apr	71.3	42.9	57.1	92+	1980	23	61.4	1999	18	1983	20	52.5	1983	243	7	.0	.2	29.7	.0	4.9	.0
May	77.7	52.7	65.2	97	1962	19	70.3	1991	28+	1989	8	60.7	1997	88	94	.0	1.2	31.0	.0	.3	.0
Jun	83.9	61.3	72.6	100	1964	21	76.9	1986	38	1984	1	68.2	1972	8	236	.0	7.3	30.0	.0	.0	.0
Jul	87.5	66.1	76.8	104	1986	19	81.2	1993	50+	1962	28	73.7	1979	0	366	.6	15.8	31.0	.0	.0	.0
Aug	86.0	65.3	75.7	106	1983	21	79.4	1999	47+	1976	31	72.9	1997	0	330	.4	11.7	31.0	.0	.0	.0
Sep	80.4	58.5	69.5	98+	1983	11	73.1	1973	33	1967	30	66.8+	1984	21	155	.0	4.2	30.0	.0	.0	.0
Oct	71.7	45.2	58.5	91	1986	2	65.8	1984	19	1965	30	52.2	1987	236	33	.0	.1	30.9	.0	3.5	.0
Nov	62.0	35.9	49.0	87	1974	2	57.0	1985	9	1970	25	42.0	1976	483	2	.0	.0	27.3	.0	13.5	.0
Dec	53.2	29.5	41.4	80	1984	30	49.6	1971	-4	1962	13	34.1	2000	734	0	.0	.0	20.3	.3	20.0	.1
Ann	70.2	45.9	58.1	106	Aug 1983	21	81.2	Jul 1993	-4+	Jan 1985	21	28.5	Jan 1977	3737	1223	1.0	40.5	326.3	1.5	92.9	.2

\+ 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	4.53	4.69	2.73	1984	10	8.25	1978	.30	1981
Feb	4.07	4.41	3.10	1955	6	6.60	1997	.64	1978
Mar	4.93	4.83	2.96	1991	29	9.54	1980	1.15	1985
Apr	3.05	2.75	2.86	1962	11	6.65	1998	.39	1976
May	4.15	4.43	3.87	1975	3	10.52	1975	1.13	1988
Jun	3.76	3.33	4.12	1964	1	10.47	1995	.17	1986
Jul	3.78	3.34	5.00	1967	7	10.91	1971	.85	1977
Aug	4.83	3.76	7.16	1985	17	11.89	1994	.88	1999
Sep	4.08	3.92	4.04	1987	7	9.73	1987	.59	1985
Oct	3.85	3.21	7.13	1990	12	14.93	1990	.00	2000
Nov	3.67	3.90	4.25	1948	28	8.83	1985	.88	1973
Dec	3.67	3.31	3.37	1958	28	8.75	1983	.83	1980
Ann	48.37	49.45	7.16	Aug 1985	17	14.93	Oct 1990	.00	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	7.4	3.2	1.4
Feb	9.1	6.7	3.1	1.1
Mar	10.7	7.9	3.5	1.2
Apr	8.7	6.1	2.0	.8
May	9.9	6.6	2.8	1.1
Jun	9.2	6.0	2.8	1.0
Jul	10.2	6.9	2.4	1.0
Aug	9.4	5.8	2.9	1.3
Sep	8.4	5.7	2.8	1.3
Oct	6.8	4.7	2.2	1.1
Nov	8.8	5.8	2.6	.9
Dec	10.0	6.7	2.3	1.0
Ann	111.6	76.3	32.6	13.2

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	1.47	1.90	2.53	3.07	3.59	4.13	4.72	5.41	6.30	7.68	8.96
Feb	1.22	1.61	2.19	2.69	3.17	3.68	4.23	4.89	5.73	7.05	8.28
Mar	1.49	1.96	2.66	3.26	3.85	4.45	5.12	5.91	6.92	8.50	9.97
Apr	.85	1.14	1.58	1.96	2.34	2.73	3.16	3.68	4.34	5.39	6.36
May	1.25	1.64	2.23	2.74	3.24	3.75	4.32	4.98	5.84	7.19	8.43
Jun	.58	.90	1.44	1.96	2.50	3.09	3.76	4.59	5.69	7.49	9.21
Jul	.95	1.31	1.86	2.35	2.83	3.33	3.90	4.57	5.45	6.84	8.14
Aug	1.22	1.68	2.38	3.00	3.62	4.26	4.99	5.84	6.96	8.73	10.39
Sep	.80	1.16	1.76	2.31	2.87	3.47	4.15	4.97	6.05	7.80	9.45
Oct	.30	.71	1.34	1.90	2.49	3.12	3.86	4.75	5.95	7.91	9.79
Nov	1.29	1.64	2.14	2.56	2.97	3.38	3.84	4.36	5.04	6.08	7.04
Dec	1.09	1.44	1.96	2.41	2.85	3.31	3.81	4.41	5.17	6.37	7.49
Ann	34.67	37.33	40.73	43.32	45.61	47.82	50.11	52.63	55.69	60.12	63.95

\+ 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)

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	1.8	.0	#	0	13.0	1988	7	13.0	1988	13	1988	7	1	1988	.4	.4	.1	.1	.1	.5	.3	.1	.0
Feb	.8	.0	#	0	5.0	1979	6	5.0	1979	9	1979	19	1	1979	.3	.3	.1	.1	.0	.1	.1	@	.0
Mar	1.1	.0	#	0	6.3	1971	25	6.3	1971	6	1971	25	#+	1998	.3	.3	.1	.1	.0	.1	.1	.1	.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	.8	.0	#	0	12.0	1971	3	12.0	1971	12	1971	3	1	1971	.1	.1	.1	.1	.1	@	@	@	@
Ann	4.5	.0	N/A	N/A	13.0	Jan 1988	7	13.0	Jan 1988	13	Jan 1988	7	1+	Jan 1988	1.1	1.1	.4	.4	.2	.7	.5	.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

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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	5/17	5/13	5/09	5/06	5/03	4/30	4/27	4/24	4/19
32	5/10	5/05	5/01	4/28	4/25	4/23	4/19	4/16	4/11
28	4/23	4/18	4/14	4/11	4/08	4/05	4/02	3/29	3/23
24	4/07	4/02	3/29	3/26	3/22	3/19	3/16	3/12	3/07
20	3/27	3/19	3/14	3/09	3/05	3/01	2/24	2/19	2/12
16	3/11	3/04	2/26	2/22	2/18	2/13	2/09	2/03	1/27

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	9/29	10/03	10/05	10/07	10/09	10/11	10/14	10/16	10/19
32	10/05	10/10	10/14	10/17	10/19	10/22	10/25	10/28	11/02
28	10/17	10/22	10/26	10/29	10/31	11/03	11/06	11/10	11/15
24	10/29	11/04	11/08	11/11	11/15	11/18	11/21	11/25	12/01
20	11/07	11/13	11/18	11/22	11/26	11/30	12/04	12/09	12/16
16	11/22	12/01	12/07	12/12	12/17	12/22	12/27	1/02	1/11

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	176	170	166	162	158	155	151	147	141
32	194	188	184	180	176	173	169	164	158
28	225	219	214	210	206	202	198	193	186
24	259	251	246	241	236	232	227	221	213
20	290	282	276	270	266	261	256	250	241
16	332	320	312	306	300	294	288	280	270

***** 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	807	637	480	243	88	8	0	0	21	236	483	734	3737
60	652	497	332	124	30	1	0	0	4	135	342	579	2696
57	567	414	250	71	13	0	0	0	1	89	264	493	2162
55	509	363	200	46	7	0	0	0	0	65	217	434	1841
50	370	237	103	10	0	0	0	0	0	24	121	299	1164
32	57	12	0	0	0	0	0	0	0	0	1	28	98

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	273	299	544	754	1029	1218	1389	1353	1124	820	509	318	9630
55	12	6	31	109	322	528	676	640	435	172	35	11	2977
57	8	1	18	75	266	468	614	578	375	134	22	7	2566
60	0	0	7	38	191	379	521	485	288	87	10	0	2006
65	0	0	0	7	94	236	366	330	155	33	2	0	1223
70	0	0	0	1	34	117	216	182	57	9	0	0	616

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	105	156	335	544	809	1011	1174	1137	913	602	305	150	105	261	596	1140	1949	2960	4134	5271	6184	6786	7091	7241
45	48	80	208	394	654	861	1019	982	763	449	188	74	48	128	336	730	1384	2245	3264	4246	5009	5458	5646	5720
50	22	34	112	256	501	711	864	827	613	300	100	35	22	56	168	424	925	1636	2500	3327	3940	4240	4340	4375
55	1	6	47	146	352	561	709	672	463	177	45	10	1	7	54	200	552	1113	1822	2494	2957	3134	3179	3189
60	0	0	11	63	211	411	554	517	321	84	11	0	0	0	11	74	285	696	1250	1767	2088	2172	2183	2183
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	78	128	236	364	532	682	800	781	611	396	217	107	78	206	442	806	1338	2020	2820	3601	4212	4608	4825	4932

(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