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: DARLINGTON, SC **COOP ID: 382260**

Climate Division: SC 4 **NWS Call Sign:** **Elevation: 150 Feet** **Lat: 34˚18N** **Lon: 79˚53W**

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	55.7	35.1	45.4	82	1975	31	58.9	1974	-4	1985	21	35.2	1977	616	0	.0	.0	23.3	.3	14.4	@
Feb	60.7	37.1	48.9	84+	1997	27	57.1	1990	4	1973	12	40.3	1978	451	0	.0	.0	22.9	.2	11.0	.0
Mar	68.8	43.7	56.3	89+	1986	31	62.1	1997	14	1983	25	51.1	1971	284	13	.0	.0	30.1	@	5.1	.0
Apr	77.2	50.5	63.9	96	1980	23	67.8	1981	26+	1983	21	59.9	1983	89	54	.0	1.4	30.0	.0	.7	.0
May	83.6	59.1	71.4	100+	1953	31	75.1	1991	34	1983	11	66.8	1972	12	208	.0	5.5	31.0	.0	.0	.0
Jun	88.7	67.0	77.9	106	1954	27	82.7	1981	46+	1984	1	74.0	1972	0	386	.6	15.0	30.0	.0	.0	.0
Jul	91.3	71.2	81.3	108	1977	21	85.2	1993	53	1952	10	78.3	1975	0	504	2.0	22.5	31.0	.0	.0	.0
Aug	88.9	69.8	79.4	106+	1983	20	82.7	1983	50	1976	31	77.3+	1994	0	445	.8	17.2	31.0	.0	.0	.0
Sep	84.4	64.3	74.4	104	1980	15	78.1	1980	36	1983	23	71.8	1994	2	282	.1	7.8	30.0	.0	.0	.0
Oct	75.9	52.1	64.0	99+	1954	6	70.8	1984	24	1952	30	58.1	1987	118	88	.0	.5	31.0	.0	.6	.0
Nov	67.4	43.7	55.6	90	1974	2	64.3	1985	14	1950	25	48.8	1976	299	15	.0	@	29.4	.0	5.9	.0
Dec	58.4	37.2	47.8	84	1998	1	56.8	1971	7+	1983	26	39.6	2000	537	4	.0	.0	24.9	.2	11.7	.0
Ann	75.1	52.6	63.9	108	Jul 1977	21	85.2	Jul 1993	-4	Jan 1985	21	35.2	Jan 1977	2408	1999	3.5	69.9	344.6	.7	49.4	@

\+ 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	4.51	4.51	2.80	1999	24	7.22	1993	.90	1981
Feb	3.44	2.66	5.00	1973	2	9.38	1973	.90	1976
Mar	4.45	3.92	4.20	1971	3	8.66	1983	2.05	1982
Apr	2.86	2.92	3.25	1975	3	6.24	1983	.19	1985
May	3.36	3.08	2.89	1991	6	6.55	1972	.71	1983
Jun	4.43	3.80	4.15	1976	17	11.20	1976	.83	1990
Jul	4.72	4.38	3.40	1954	20	10.06	1985	.85	1987
Aug	5.36	4.65	4.71	1992	20	15.11	1992	1.22	1983
Sep	4.11	3.36	5.55	1979	5	11.77	1979	.08	1985
Oct	3.21	2.77	5.15	1954	15	11.00	1990	.00	2000
Nov	2.91	2.53	2.45+	1976	15	7.64	1985	.77	1973
Dec	3.54	2.64	4.67	1994	23	9.25	1994	.05	1988
Ann	46.90	46.15	5.55	Sep 1979	5	15.11	Aug 1992	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	7.6	3.6	1.3
Feb	8.1	6.3	2.4	1.0
Mar	9.6	7.5	3.0	1.3
Apr	7.4	5.3	2.1	.9
May	8.9	6.8	2.5	.8
Jun	8.6	6.9	2.9	1.3
Jul	9.9	7.6	3.5	1.5
Aug	10.2	7.4	3.4	1.8
Sep	7.4	5.5	2.6	1.3
Oct	5.9	4.7	2.3	.9
Nov	7.0	5.3	2.1	.8
Dec	8.8	6.4	2.3	.9
Ann	101.8	77.3	32.7	13.8

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	1.73	2.15	2.75	3.24	3.71	4.20	4.72	5.32	6.09	7.26	8.34
Feb	.90	1.23	1.72	2.16	2.60	3.05	3.56	4.15	4.93	6.17	7.32
Mar	1.80	2.21	2.78	3.26	3.71	4.17	4.66	5.23	5.95	7.05	8.05
Apr	.38	.61	1.02	1.41	1.83	2.30	2.84	3.50	4.39	5.86	7.28
May	1.14	1.45	1.92	2.31	2.69	3.08	3.51	4.01	4.64	5.63	6.54
Jun	1.21	1.63	2.27	2.82	3.37	3.95	4.58	5.33	6.31	7.85	9.28
Jul	1.33	1.78	2.46	3.05	3.62	4.23	4.89	5.68	6.70	8.30	9.80
Aug	1.45	1.96	2.74	3.41	4.08	4.77	5.54	6.46	7.65	9.51	11.26
Sep	.37	.66	1.22	1.79	2.41	3.12	3.96	5.01	6.46	8.88	11.25
Oct	.28	.64	1.17	1.63	2.12	2.64	3.24	3.96	4.94	6.51	8.02
Nov	.67	.94	1.36	1.75	2.13	2.53	2.98	3.52	4.23	5.36	6.42
Dec	.61	.92	1.43	1.92	2.42	2.96	3.57	4.32	5.32	6.94	8.48
Ann	36.83	38.86	41.41	43.32	44.99	46.60	48.24	50.04	52.20	55.30	57.95

\+ 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

Complete documentation available from:
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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	1.1	.0	#	0
Mar	.4	.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	1.8	.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	4.5	1973	8	4.5	1973	2	1988	7	#+	1988
Feb	18.0	1973	10	18.0	1973	#	1986	26	#	1986
Mar	4.5	1983	25	4.5	1983	0	0	0	0	0
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	.4	1973	17	.4	1973	0	0	0	0	0
Ann	18.0	Feb 1973	10	18.0	Feb 1973	2	Jan 1988	7	#+	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.1	.0	.0
Feb	.1	.1	.1	.1	.1
Mar	.1	.1	.1	.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	.1	.0	.0	.0	.0
Ann	.4	.3	.3	.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.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	@	.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	4/26	4/20	4/16	4/12	4/09	4/06	4/02	3/29	3/23
32	4/13	4/07	4/03	3/30	3/27	3/23	3/19	3/15	3/09
28	4/02	3/26	3/21	3/17	3/13	3/09	3/04	2/27	2/20
24	3/13	3/06	3/01	2/25	2/21	2/18	2/13	2/09	2/02
20	3/08	2/26	2/18	2/12	2/06	1/30	1/23	1/13	0/00
16	2/23	2/13	2/05	1/28	1/19	1/03	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	10/06	10/12	10/16	10/19	10/23	10/26	10/30	11/03	11/09
32	10/18	10/24	10/28	11/01	11/04	11/08	11/11	11/16	11/22
28	11/02	11/08	11/12	11/15	11/19	11/22	11/26	11/30	12/05
24	11/15	11/23	11/30	12/05	12/10	12/16	12/21	12/27	1/05
20	11/30	12/09	12/16	12/22	12/27	1/02	1/09	1/18	0/00
16	12/21	1/01	1/09	1/18	1/29	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	225	215	208	202	196	191	184	177	168
32	250	240	233	227	222	216	210	203	193
28	278	268	261	256	250	245	239	232	223
24	323	312	304	298	291	285	278	270	260
20	>365	>365	344	326	316	308	300	291	279
16	>365	>365	>365	>365	>365	>365	347	331	314

***** 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	616	451	284	89	12	0	0	0	2	118	299	537	2408
60	473	322	164	27	1	0	0	0	0	53	181	394	1615
57	393	249	109	10	0	0	0	0	0	29	126	314	1230
55	343	206	80	5	0	0	0	0	0	18	95	266	1013
50	237	119	29	0	0	0	0	0	0	5	38	166	594
32	25	3	0	0	0	0	0	0	0	0	0	8	36

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	442	475	752	954	1220	1376	1527	1468	1270	993	706	497	11680
55	46	35	118	269	507	686	814	755	580	298	112	42	4262
57	34	22	86	214	445	626	752	693	520	247	83	28	3750
60	21	11	48	142	352	536	659	600	430	178	48	16	3041
65	0	0	13	54	208	386	504	445	282	88	15	4	1999
70	0	0	1	11	96	241	349	290	145	32	3	0	1168

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	225	292	516	715	976	1141	1284	1232	1037	751	474	278	225	517	1033	1748	2724	3865	5149	6381	7418	8169	8643	8921
45	130	188	367	566	821	991	1129	1077	887	596	335	168	130	318	685	1251	2072	3063	4192	5269	6156	6752	7087	7255
50	67	107	241	421	666	841	974	922	737	444	216	91	67	174	415	836	1502	2343	3317	4239	4976	5420	5636	5727
55	28	53	135	280	511	691	819	767	587	300	118	46	28	81	216	496	1007	1698	2517	3284	3871	4171	4289	4335
60	4	18	64	167	357	541	664	612	440	175	55	19	4	22	86	253	610	1151	1815	2427	2867	3042	3097	3116
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	135	198	330	466	652	780	878	852	707	491	303	173	135	333	663	1129	1781	2561	3439	4291	4998	5489	5792	5965

(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