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: EDISTO ISLAND, SC **COOP ID: 382730**

Climate Division: SC 7 **NWS Call Sign:** **Elevation: 8 Feet** **Lat: 32˚28N** **Lon: 80˚20W**

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	55.9	38.5	47.2	79	1966	2	59.8	1974	7	1985	21	36.7	1977	564	0	.0	.0	25.1	.2	9.7	.0
Feb	59.1	40.1	49.6	82+	1996	25	56.4	1990	16	1958	17	39.7	1978	436	4	.0	.0	24.4	.1	6.6	.0
Mar	65.5	47.4	56.5	87	1997	23	63.7	1997	20	1980	3	51.7	1971	282	17	.0	.0	30.2	@	1.5	.0
Apr	73.2	54.2	63.7	93	1989	27	67.2	1991	30	1983	19	58.3	1983	92	53	.0	.3	30.0	.0	.1	.0
May	80.0	63.2	71.6	98	1962	28	76.2	1998	38	1963	2	68.5	1997	11	216	.0	1.7	31.0	.0	.0	.0
Jun	85.7	70.5	78.1	102+	1981	17	83.5	1998	39	1961	7	73.9	1997	0	393	.3	6.6	30.0	.0	.0	.0
Jul	89.4	74.4	81.9	102	1990	7	85.0	1986	61+	1972	13	78.4	1984	0	524	.3	15.1	31.0	.0	.0	.0
Aug	88.2	72.8	80.5	101	1995	15	84.0	1999	55	1979	17	77.5	1976	0	480	.1	11.8	31.0	.0	.0	.0
Sep	84.4	68.4	76.4	98	1997	21	79.4	1987	47	1983	22	72.6	1984	1	343	.0	4.0	30.0	.0	.0	.0
Oct	76.4	57.3	66.9	93+	1986	6	72.2	1985	33+	1976	29	61.7	1976	76	133	.0	.2	31.0	.0	@	.0
Nov	67.7	49.2	58.5	87+	1992	6	65.6	1985	18	1970	25	51.3	1976	226	30	.0	.0	29.6	.0	1.2	.0
Dec	59.2	41.1	50.2	81	1998	3	56.6	1971	10+	1983	25	41.7	1989	470	9	.0	.0	27.3	.1	7.0	.0
Ann	73.7	56.4	65.1	102+	Jul 1990	7	85.0	Jul 1986	7	Jan 1985	21	36.7	Jan 1977	2158	2202	.7	39.7	350.6	.4	26.1	.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: 1956-2001

(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	3.85	3.93	3.20	1998	22	7.41	1994	.85	1981
Feb	3.25	3.05	6.12	1998	16	9.24	1998	.50	1976
Mar	3.85	3.54	5.89	1959	6	10.54	1983	.85	1999
Apr	2.79	2.97	3.73	1982	25	6.35	1982	.40	1977
May	3.20	2.66	3.58	1966	23	6.99	1972	.48	1987
Jun	4.36	3.91	4.69	1957	9	10.97	1982	.45	1996
Jul	5.28	4.82	5.60	1984	18	12.05	1991	.26	1993
Aug	6.89	5.35	8.45	1977	24	20.63	1971	.72	1979
Sep	5.77	4.88	7.46	1989	22	14.97	1989	.23	1990
Oct	3.41	2.75	7.55	1994	3	16.13	1994	.06	2000
Nov	2.78	2.71	3.75	1993	6	7.06	1993	.09	1998
Dec	3.61	3.67	3.80	1986	31	9.14	1986	.40	1984
Ann	49.04	48.54	8.45	Aug 1977	24	20.63	Aug 1971	.06	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	6.7	2.6	.8
Feb	7.9	5.6	2.0	.8
Mar	7.9	5.3	2.4	1.0
Apr	6.5	4.2	1.4	.8
May	5.3	3.9	1.4	.7
Jun	9.4	7.2	3.4	1.4
Jul	7.9	5.8	2.4	1.3
Aug	10.5	7.9	4.2	2.3
Sep	9.1	6.5	3.3	2.0
Oct	5.8	3.8	1.8	.8
Nov	7.4	4.8	1.7	.7
Dec	8.6	6.2	2.2	.8
Ann	96.6	67.9	28.8	13.4

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	1.19	1.56	2.10	2.57	3.02	3.49	4.01	4.61	5.40	6.61	7.74
Feb	.80	1.10	1.58	2.00	2.41	2.85	3.34	3.93	4.69	5.90	7.03
Mar	.98	1.34	1.90	2.39	2.88	3.40	3.97	4.65	5.54	6.95	8.27
Apr	.54	.79	1.20	1.58	1.96	2.37	2.83	3.40	4.14	5.34	6.47
May	.71	1.01	1.48	1.90	2.32	2.77	3.28	3.88	4.68	5.95	7.14
Jun	1.03	1.44	2.07	2.64	3.21	3.81	4.48	5.28	6.33	8.00	9.56
Jul	1.04	1.51	2.29	3.00	3.72	4.49	5.37	6.43	7.83	10.07	12.21
Aug	1.36	1.99	3.00	3.92	4.86	5.87	7.01	8.38	10.20	13.11	15.88
Sep	.76	1.22	2.05	2.85	3.70	4.63	5.72	7.05	8.86	11.82	14.68
Oct	.16	.34	.73	1.19	1.71	2.34	3.10	4.10	5.50	7.91	10.32
Nov	.58	.83	1.24	1.61	1.98	2.38	2.84	3.38	4.10	5.24	6.33
Dec	.93	1.27	1.79	2.25	2.71	3.19	3.73	4.36	5.19	6.50	7.73
Ann	36.59	39.05	42.17	44.52	46.59	48.59	50.65	52.91	55.64	59.58	62.97

\+ 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: 1956-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

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	.0	.0	#	0	.5	1986	28	.5	1986	#+	1986	28	#+	1986	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.5	1977	1	.5	1977	#+	1972	19	#+	1972	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.0	0	0	.0	0	6	1989	24	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.5+	Jan 1986	28	.5+	Jan 1986	6	Dec 1989	24	#+	Dec 1989	.2	.0	.0	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/13	4/06	4/01	3/28	3/24	3/20	3/16	3/11	3/04
32	4/03	3/26	3/20	3/14	3/09	3/05	2/27	2/21	2/13
28	3/09	3/02	2/25	2/20	2/16	2/11	2/07	2/02	1/25
24	3/01	2/19	2/13	2/07	2/01	1/25	1/17	1/02	0/00
20	2/19	2/09	2/01	1/24	1/16	1/06	0/00	0/00	0/00
16	1/23	1/10	0/00	0/00	0/00	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	10/28	11/04	11/08	11/12	11/16	11/19	11/23	11/27	12/04
32	11/10	11/19	11/26	12/01	12/07	12/12	12/18	12/24	1/03
28	11/16	11/28	12/07	12/14	12/22	12/29	1/05	1/14	1/26
24	12/08	12/19	12/27	1/03	1/11	1/19	1/28	2/15	0/00
20	12/20	12/31	1/08	1/17	1/26	2/08	0/00	0/00	0/00
16	1/09	1/22	0/00	0/00	0/00	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	265	255	248	242	236	230	224	217	207
32	310	297	287	279	272	264	256	246	233
28	351	331	320	311	304	296	289	280	267
24	>365	>365	>365	>365	347	330	321	312	301
20	>365	>365	>365	>365	>365	>365	348	336	326
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	564	436	282	92	11	0	0	0	1	76	226	470	2158
60	424	306	165	30	1	0	0	0	0	28	127	331	1412
57	348	236	112	11	0	0	0	0	0	14	82	257	1060
55	302	195	83	5	0	0	0	0	0	8	58	215	866
50	206	113	31	0	0	0	0	0	0	1	20	128	499
32	19	2	0	0	0	0	0	0	0	0	0	4	25

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	490	495	758	951	1228	1383	1547	1503	1332	1079	794	566	12126
55	60	44	128	266	515	693	834	790	642	374	161	63	4570
57	44	29	95	212	453	633	772	728	582	318	125	44	4035
60	28	15	55	140	360	543	679	635	492	240	81	24	3292
65	0	4	17	53	216	393	524	480	343	133	30	9	2202
70	0	0	3	11	101	248	369	325	200	58	8	0	1323

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	272	310	532	725	988	1150	1303	1263	1104	841	566	342	272	582	1114	1839	2827	3977	5280	6543	7647	8488	9054	9396
45	153	194	383	575	833	1000	1148	1108	954	686	421	213	153	347	730	1305	2138	3138	4286	5394	6348	7034	7455	7668
50	77	100	243	427	678	850	993	953	804	531	285	113	77	177	420	847	1525	2375	3368	4321	5125	5656	5941	6054
55	31	45	134	282	523	700	838	798	654	378	172	51	31	76	210	492	1015	1715	2553	3351	4005	4383	4555	4606
60	3	10	56	161	370	550	683	643	504	239	85	16	3	13	69	230	600	1150	1833	2476	2980	3219	3304	3320
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	143	168	302	451	674	821	930	903	785	549	343	190	143	311	613	1064	1738	2559	3489	4392	5177	5726	6069	6259

(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