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: BEAUFORT WWTP, SC **COOP ID: 380559**

Climate Division: SC 7 **NWS Call Sign:** **Elevation: 25 Feet** **Lat: 32˚24N** **Lon: 80˚42W**

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	58.3	38.6	48.5	86	1950	16	61.8	1974	5	1985	21	38.2	1977	524	0	.0	.0	26.5	.1	6.9	.0
Feb	61.2	40.2	50.7	87+	1944	25	57.0	1990	14	1958	17	41.6	1978	405	4	.0	.0	25.6	.1	4.8	.0
Mar	67.7	46.8	57.3	93	1974	10	65.5	1997	21	1980	3	51.9	1971	263	22	.0	.1	30.6	.0	1.0	.0
Apr	74.7	54.3	64.5	95	1958	25	70.1	1999	31	1944	6	60.3	1983	79	64	.0	.3	30.0	.0	.0	.0
May	81.9	63.6	72.8	100+	1962	27	77.3	1998	37	1939	3	69.3	1992	6	245	.0	3.0	31.0	.0	.0	.0
Jun	87.0	70.1	78.6	105+	1959	29	84.3	1998	52+	1966	6	74.9	1972	0	406	.2	10.3	30.0	.0	.0	.0
Jul	89.8	73.5	81.7	104+	1932	22	85.3	1998	58	1933	5	78.3	1975	0	516	.3	19.5	31.0	.0	.0	.0
Aug	88.3	72.6	80.5	104	1999	2	85.5	1999	56	1986	29	77.3	1976	0	478	.1	14.0	31.0	.0	.0	.0
Sep	83.8	68.3	76.1	101+	1944	4	80.0	1998	43	1967	30	73.3	1984	1	332	.0	4.8	30.0	.0	.0	.0
Oct	76.2	58.1	67.2	98	1941	1	71.9	1985	29	1952	30	61.0	1987	68	134	.0	.4	31.0	.0	.0	.0
Nov	68.1	48.9	58.5	90	1942	1	65.7	1985	4	1943	28	50.3	1976	226	31	.0	.0	29.8	.0	.8	.0
Dec	60.3	41.4	50.9	82+	1972	15	58.6	1998	10+	1983	25	42.3	1989	448	9	.0	.0	28.0	.1	4.9	.0
Ann	74.8	56.4	65.6	105+	Jun 1959	29	85.5	Aug 1999	4	Nov 1943	28	38.2	Jan 1977	2020	2241	.6	52.4	354.5	.3	18.4	.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: 1930-2000

(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	4.10	3.81	3.08	1987	1	10.07	1987	.61	1989
Feb	3.07	3.33	5.10	1998	17	8.85	1998	.47	1991
Mar	3.69	3.50	4.40	1953	22	7.89	1983	.69	1995
Apr	2.97	3.00	4.06	1997	29	7.37	1997	.32	1994
May	3.07	2.55	5.50	1957	30	9.76	1976	.18	1996
Jun	5.75	5.18	7.65	1999	30	14.22	1999	1.25	1978
Jul	5.68	5.33	5.57	1964	18	14.94	1975	1.11	1988
Aug	7.45	6.50	10.84	1940	11	15.97	1995	1.96	1999
Sep	5.28	5.03	6.10	1959	29	12.49	1987	.56	1990
Oct	3.03	2.11	6.59	1994	3	17.73	1994	.12	2000
Nov	2.59	2.31	2.53	1946	2	6.32	1993	.42	1982
Dec	3.10	3.19	3.10	1964	4	6.36	1973	.18	1984
Ann	49.78	50.26	10.84	Aug 1940	11	17.73	Oct 1994	.12	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.2	2.9	.9
Feb	7.8	5.5	2.2	.8
Mar	8.7	6.2	2.4	1.0
Apr	6.9	5.0	1.8	.8
May	7.6	5.0	2.2	.9
Jun	10.4	7.7	3.2	1.5
Jul	11.0	7.5	3.3	1.6
Aug	12.3	9.1	4.4	2.2
Sep	9.8	6.9	2.8	1.4
Oct	6.0	3.8	1.8	.9
Nov	7.1	4.1	1.6	.8
Dec	9.2	5.8	2.2	.8
Ann	107.3	73.8	30.8	13.6

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	.97	1.35	1.95	2.48	3.02	3.58	4.21	4.96	5.95	7.51	8.98
Feb	.69	.98	1.43	1.83	2.23	2.66	3.15	3.72	4.48	5.69	6.82
Mar	1.08	1.43	1.96	2.42	2.86	3.32	3.83	4.44	5.21	6.43	7.56
Apr	.67	.94	1.38	1.77	2.16	2.58	3.05	3.61	4.34	5.52	6.62
May	.42	.67	1.11	1.54	1.99	2.48	3.05	3.76	4.70	6.25	7.75
Jun	1.53	2.07	2.91	3.64	4.36	5.11	5.95	6.94	8.24	10.27	12.17
Jul	1.79	2.33	3.13	3.82	4.48	5.16	5.91	6.79	7.93	9.69	11.33
Aug	2.00	2.70	3.78	4.73	5.65	6.63	7.71	8.99	10.66	13.28	15.72
Sep	1.25	1.75	2.52	3.21	3.89	4.62	5.43	6.39	7.66	9.67	11.56
Oct	.11	.24	.56	.95	1.41	1.98	2.68	3.61	4.93	7.22	9.54
Nov	.66	.90	1.28	1.61	1.94	2.29	2.67	3.13	3.73	4.68	5.57
Dec	.81	1.10	1.55	1.95	2.34	2.75	3.20	3.74	4.45	5.56	6.60
Ann	37.92	40.28	43.27	45.51	47.49	49.39	51.35	53.49	56.07	59.79	62.98

\+ 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: 1930-2000
(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	.0	.0	#	0	.5	1977	18	.7	1977	#	1977	20	#	1977	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	#	0	4.0	1973	10	6.0	1973	3	1973	10	#+	1996	.1	.1	@	.0	.0	.1	@	.0	.0
Mar	.0	.0	#	0	.1	1980	2	.1	1980	#	1980	2	#	1980	@	.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	.2	.0	#	0	5.0	1989	24	5.0	1989	5	1989	24	#+	1989	.1	@	@	@	.0	@	@	@	.0
Ann	.4	.0	N/A	N/A	5.0	Dec 1989	24	6.0	Feb 1973	5	Dec 1989	24	#+	Feb 1996	.3	.1	@	@	.0	.1	@	@	.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	4/09	4/01	3/27	3/22	3/18	3/13	3/09	3/03	2/24
32	3/19	3/12	3/07	3/02	2/26	2/22	2/18	2/13	2/06
28	3/09	2/28	2/22	2/17	2/12	2/07	2/01	1/26	1/17
24	2/23	2/14	2/06	1/31	1/24	1/14	0/00	0/00	0/00
20	2/08	1/28	1/19	1/08	0/00	0/00	0/00	0/00	0/00
16	1/05	0/00	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	10/31	11/06	11/11	11/15	11/19	11/23	11/27	12/01	12/08
32	11/12	11/21	11/28	12/03	12/09	12/14	12/19	12/26	1/04
28	11/24	12/05	12/12	12/19	12/25	12/31	1/07	1/14	1/25
24	12/13	12/23	12/31	1/07	1/15	1/25	0/00	0/00	0/00
20	12/27	1/09	1/21	2/03	0/00	0/00	0/00	0/00	0/00
16	1/13	0/00	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	276	265	258	252	246	240	233	226	216
32	318	307	298	291	285	278	271	262	251
28	>365	336	325	317	310	303	297	289	278
24	>365	>365	>365	>365	>365	349	337	327	316
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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	524	405	263	79	6	0	0	0	1	68	226	448	2020
60	392	276	152	24	0	0	0	0	0	23	127	310	1304
57	319	208	102	9	0	0	0	0	0	11	83	238	970
55	276	169	74	4	0	0	0	0	0	6	58	196	783
50	186	91	27	0	0	0	0	0	0	1	20	112	437
32	16	1	0	0	0	0	0	0	0	0	0	2	19

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	525	524	782	975	1262	1396	1539	1501	1321	1089	795	586	12295
55	72	48	143	289	549	706	826	788	631	382	163	67	4664
57	54	31	109	234	487	646	764	726	571	324	127	46	4119
60	34	16	66	159	394	556	671	633	481	244	82	25	3361
65	0	4	22	64	245	406	516	478	332	134	31	9	2241
70	0	0	5	15	120	259	361	323	190	56	9	0	1338

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	338	386	613	788	1047	1179	1314	1277	1116	871	605	400	338	724	1337	2125	3172	4351	5665	6942	8058	8929	9534	9934
45	213	260	461	638	892	1029	1159	1122	966	716	458	266	213	473	934	1572	2464	3493	4652	5774	6740	7456	7914	8180
50	116	157	314	489	737	879	1004	967	816	561	316	155	116	273	587	1076	1813	2692	3696	4663	5479	6040	6356	6511
55	55	79	190	346	582	729	849	812	666	409	201	77	55	134	324	670	1252	1981	2830	3642	4308	4717	4918	4995
60	21	26	92	208	427	579	694	657	516	267	103	31	21	47	139	347	774	1353	2047	2704	3220	3487	3590	3621
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	183	222	367	502	725	835	926	911	793	569	364	215	183	405	772	1274	1999	2834	3760	4671	5464	6033	6397	6612

(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