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: BISHOPVILLE 8 NNW, SC **COOP ID: 380736**

Climate Division: SC 6 **NWS Call Sign:** **Elevation: 249 Feet** **Lat: 34˚20N** **Lon: 80˚18W**

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	53.7	31.7	42.7	81	1952	2	55.2	1974	-2	1985	21	32.0	1977	691	0	.0	.0	20.6	.7	17.2	.1
Feb	58.2	33.6	45.9	85	1989	16	55.0	1990	9	1973	12	37.6	1978	535	0	.0	.0	20.8	.3	13.4	.0
Mar	66.3	40.5	53.4	88+	1990	14	59.9	1997	8+	1980	4	47.7	1971	368	9	.0	.0	28.8	.1	7.2	.0
Apr	74.7	47.8	61.3	93+	1989	28	66.1	1981	23	1964	1	56.2	1993	147	34	.0	.7	29.8	.0	1.2	.0
May	81.8	57.1	69.5	101	1953	27	74.2	2000	31	1989	8	65.3	1994	32	170	@	4.1	31.0	.0	.1	.0
Jun	87.9	65.2	76.6	106	1954	28	81.4	1981	46	1966	2	72.3	1972	1	348	.5	12.7	30.0	.0	.0	.0
Jul	90.8	69.1	80.0	106	1952	30	85.3	1986	51	1951	7	77.2	1975	0	464	1.6	19.8	31.0	.0	.0	.0
Aug	89.0	67.6	78.3	106+	1983	23	82.6	1999	52	1950	7	75.2	1981	0	411	1.0	14.6	31.0	.0	.0	.0
Sep	84.0	62.0	73.0	100+	1957	3	77.7	1980	37+	1950	26	69.5	1994	5	244	.0	6.3	30.0	.0	.0	.0
Oct	75.0	49.5	62.3	96+	1986	4	69.3	1984	23	1976	29	56.9	1987	155	68	.0	.3	30.9	.0	1.2	.0
Nov	66.1	40.8	53.5	89	1961	3	62.5	1985	11	1950	26	46.7	1976	356	10	.0	.0	28.7	.0	7.1	.0
Dec	56.8	33.9	45.4	83	2001	7	54.2	1971	3+	1962	14	37.1	1989	609	0	.0	.0	22.4	.2	15.3	.0
Ann	73.7	49.9	61.8	106+	Aug 1983	23	85.3	Jul 1986	-2	Jan 1985	21	32.0	Jan 1977	2899	1758	3.1	58.5	335.0	1.3	62.7	.1

\+ 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

Issue Date: February 2004

(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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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	4.52	4.14	2.50	1999	24	8.16	1998	.96	1986
Feb	3.42	3.34	3.01	1994	24	6.30	1998	1.09	1976
Mar	4.00	3.58	3.15	1983	18	8.42	1980	.67	1985
Apr	3.01	2.81	3.25	1975	3	6.56	1978	.18	1976
May	3.52	3.31	3.00	1976	16	8.58	1984	.82	1983
Jun	4.43	4.34	3.32	1993	27	8.18	1973	1.71	1986
Jul	4.83	4.55	3.25	1948	1	12.27	1975	.85	1990
Aug	4.48	4.56	6.05	1988	29	10.33	1986	.73	1983
Sep	3.78	3.55	5.50	1979	5	9.23	1979	.07	1981
Oct	3.18	2.33	7.10	1990	11	14.56	1990	.00	2000
Nov	3.13	2.82	2.90	1985	21	9.47	1985	.45	1973
Dec	3.22	2.62	6.07	1994	23	8.20	1994	.18	1988
Ann	45.52	45.21	7.10	Oct 1990	11	14.56	Oct 1990	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.3	7.7	3.3	1.4
Feb	8.8	6.2	2.3	1.0
Mar	9.4	6.8	2.9	1.0
Apr	7.4	5.3	2.1	.8
May	8.3	6.0	2.5	.9
Jun	9.3	7.1	3.2	1.1
Jul	10.6	7.5	3.7	1.3
Aug	10.2	7.3	2.9	1.1
Sep	8.0	5.1	2.3	1.1
Oct	6.1	4.6	2.1	.9
Nov	7.5	5.4	2.5	.9
Dec	9.5	6.1	2.2	.7
Ann	106.4	75.1	32.0	12.2

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	1.74	2.16	2.76	3.26	3.73	4.21	4.73	5.34	6.11	7.28	8.36
Feb	1.07	1.40	1.88	2.29	2.69	3.10	3.56	4.09	4.78	5.85	6.84
Mar	1.28	1.66	2.22	2.70	3.16	3.64	4.17	4.79	5.58	6.82	7.96
Apr	.43	.68	1.12	1.53	1.97	2.45	3.00	3.67	4.59	6.07	7.50
May	.83	1.16	1.67	2.13	2.59	3.07	3.62	4.26	5.11	6.45	7.72
Jun	1.69	2.10	2.69	3.18	3.65	4.12	4.63	5.23	5.99	7.15	8.22
Jul	1.51	1.97	2.65	3.23	3.80	4.38	5.02	5.78	6.75	8.27	9.67
Aug	1.28	1.71	2.35	2.91	3.45	4.02	4.64	5.38	6.34	7.85	9.25
Sep	.39	.67	1.19	1.72	2.28	2.92	3.67	4.61	5.89	8.02	10.09
Oct	.30	.67	1.20	1.66	2.13	2.64	3.22	3.93	4.86	6.38	7.82
Nov	.87	1.17	1.62	2.01	2.40	2.80	3.24	3.77	4.45	5.52	6.51
Dec	.61	.90	1.37	1.81	2.25	2.73	3.27	3.92	4.79	6.19	7.51
Ann	35.21	37.27	39.87	41.82	43.54	45.19	46.88	48.73	50.96	54.16	56.90

+ 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

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(2) Derived from station's available digital record: 1948-2001
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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	.5	.0	#	0	3.0	1988	8	3.0+	1988	3+	1988	10	1+	1988	.3	.2	.1	.0	.0	.7	.2	.0	.0
Feb	1.3	.0	#	0	8.0	1979	19	11.0	1973	11	1973	11	2	1973	.5	.3	.1	.1	.0	.5	.3	.2	.1
Mar	.6	.0	#	0	4.0	1971	26	4.0	1971	3	1980	3	#+	1998	.2	.2	.1	.0	.0	.1	@	.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	.3	.0	#	0	2.0	1993	23	2.0	1993	2+	1993	23	#+	1993	.2	.2	.0	.0	.0	.2	.0	.0	.0
Ann	2.7	.0	N/A	N/A	8.0	Feb 1979	19	11.0	Feb 1973	11	Feb 1973	11	2	Feb 1973	1.2	.9	.3	.1	.0	1.5	.5	.2	.1

+ 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	4/28	4/22	4/18	4/15	4/11	4/08	4/04	3/31	3/26
32	4/20	4/13	4/09	4/05	4/01	3/29	3/25	3/20	3/14
28	4/06	3/31	3/26	3/22	3/18	3/14	3/10	3/05	2/27
24	3/21	3/14	3/08	3/04	2/27	2/23	2/19	2/13	2/06
20	3/12	3/02	2/23	2/17	2/11	2/06	1/30	1/23	1/14
16	2/28	2/18	2/10	2/02	1/26	1/17	12/31	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	10/08	10/13	10/16	10/19	10/22	10/25	10/28	10/31	11/05
32	10/14	10/20	10/25	10/29	11/01	11/05	11/09	11/13	11/19
28	10/30	11/05	11/09	11/13	11/16	11/20	11/23	11/28	12/04
24	11/13	11/21	11/26	11/30	12/04	12/09	12/13	12/18	12/25
20	11/24	12/06	12/14	12/21	12/27	1/03	1/09	1/18	1/29
16	12/16	12/28	1/06	1/15	1/24	2/05	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	215	208	202	197	193	189	184	178	171
32	238	230	224	218	213	208	203	197	188
28	269	260	253	248	243	237	232	225	216
24	306	297	290	284	279	274	268	262	253
20	>365	354	333	322	313	304	296	286	273
16	>365	>365	>365	>365	>365	342	330	319	306

***** 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	691	535	368	147	32	1	0	0	5	155	356	609	2899
60	548	403	235	63	6	0	0	0	1	78	229	463	2026
57	463	326	170	32	2	0	0	0	0	46	166	378	1583
55	409	278	133	18	0	0	0	0	0	31	130	325	1324
50	288	175	63	3	0	0	0	0	0	9	61	210	809
32	37	9	0	0	0	0	0	0	0	0	0	13	59

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	368	397	663	877	1161	1337	1487	1434	1229	937	643	428	10961
55	28	23	84	205	449	647	774	721	539	255	84	26	3835
57	20	15	58	158	388	587	712	659	479	208	60	17	3361
60	12	8	30	100	300	497	619	566	390	147	32	9	2710
65	0	0	9	34	170	348	464	411	244	68	10	0	1758
70	0	0	0	7	77	209	310	260	117	23	1	0	1004

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	171	231	432	643	924	1105	1248	1194	998	696	415	225	171	402	834	1477	2401	3506	4754	5948	6946	7642	8057	8282
45	94	138	302	498	769	955	1093	1039	848	543	286	125	94	232	534	1032	1801	2756	3849	4888	5736	6279	6565	6690
50	42	74	188	356	614	805	938	884	698	397	177	66	42	116	304	660	1274	2079	3017	3901	4599	4996	5173	5239
55	19	34	98	228	460	655	783	729	548	256	95	30	19	53	151	379	839	1494	2277	3006	3554	3810	3905	3935
60	2	11	44	129	311	505	628	574	400	139	41	8	2	13	57	186	497	1002	1630	2204	2604	2743	2784	2792
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	112	160	280	413	608	754	855	822	674	451	272	147	112	272	552	965	1573	2327	3182	4004	4678	5129	5401	5548

(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