

Climatology of the United States

No. 20

1971-2000

Station: BLACKVILLE 3 W, SC

COOP ID: 380764

Climate Division: SC 7

NWS Call Sign:

Elevation: 324 Feet

Lat: 33° 22N

Lon: 81° 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	59.3	35.0	47.2	85	1943	17	59.3	1974	-1	1985	21	38.1	1977	564	0	.0	.0	24.9	.2	13.2	@
Feb	63.8	37.2	50.5	87	1945	28	58.4	1990	7	1973	12	42.5	1978	408	2	.0	.0	24.7	.2	9.8	.0
Mar	71.4	43.8	57.6	92	1945	7	65.1	1997	9	1980	3	51.9	1996	253	23	.0	@	30.4	@	4.5	.0
Apr	78.7	49.8	64.3	95	1986	28	68.4	1981	25+	2000	9	60.5	1983	79	56	.0	1.2	30.0	.0	.8	.0
May	85.2	58.0	71.6	105	1941	23	74.7	1991	36	1971	4	67.9	1999	8	212	.1	6.9	31.0	.0	.0	.0
Jun	90.6	65.1	77.9	107	1939	22	82.0	1981	46	1988	5	74.5	1999	0	386	1.1	16.5	30.0	.0	.0	.0
Jul	93.1	68.5	80.8	107	1932	22	85.4	1986	54	1954	18	76.6	1975	0	491	2.6	23.6	31.0	.0	.0	.0
Aug	91.3	67.5	79.4	108	1999	1	82.4	1983	50	1999	31	76.8	1996	0	446	1.1	18.9	31.0	.0	.0	.0
Sep	87.1	62.5	74.8	107	1931	18	78.7	1980	37	1967	30	71.5	1999	3	296	.2	10.1	30.0	.0	.0	.0
Oct	78.7	51.4	65.1	98	1954	7	71.8	1984	25+	2000	10	58.3	1987	104	106	.0	.5	31.0	.0	.6	.0
Nov	70.3	43.3	56.8	91+	1961	2	63.6	1985	12+	2000	22	49.8	1976	266	19	.0	.0	29.5	.0	6.0	.0
Dec	61.9	36.9	49.4	84	1942	28	58.8	1971	4	1962	13	40.5	2000	492	10	.0	.0	26.8	.1	11.5	.0
Ann	77.6	51.6	64.6	108	Aug 1999	1	85.4	Jul 1986	-1	Jan 1985	21	38.1	Jan 1977	2177	2047	5.1	77.7	350.3	.5	46.4	@

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

(3) Derived from 1971-2000 serially complete daily data

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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: BLACKVILLE 3 W, SC

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Climate Division: SC 7

NWS Call Sign:

Elevation: 324 Feet

Lat: 33°22N

Lon: 81°20W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	4.57	4.12	3.27	1995	7	7.77	1991	.70	1981	11.4	7.6	3.4	1.3	1.65	2.08	2.70	3.22	3.71	4.22	4.77	5.42	6.24	7.51	8.67
Feb	3.87	3.73	4.00	1973	2	8.33	1973	.69	2000	8.8	6.1	3.0	1.0	1.21	1.57	2.12	2.59	3.04	3.51	4.02	4.63	5.41	6.62	7.74
Mar	4.46	3.83	3.42	1944	23	9.74	1980	.98	1985	9.6	7.0	3.5	1.4	1.24	1.67	2.31	2.87	3.41	3.98	4.62	5.36	6.34	7.86	9.28
Apr	2.97	2.99	4.26	1961	1	6.41	1998	.36	1972	7.6	5.4	2.3	.9	.50	.75	1.19	1.59	2.01	2.47	2.99	3.62	4.46	5.83	7.14
May	3.35	2.80	4.72	1970	16	10.34	1984	.69	1983	9.0	6.1	2.2	.8	.78	1.09	1.59	2.02	2.46	2.92	3.44	4.06	4.88	6.17	7.38
Jun	5.49	4.77	4.08	1976	28	11.53	1976	.67	1984	11.2	7.9	3.4	1.8	1.54	2.07	2.86	3.54	4.22	4.92	5.69	6.61	7.80	9.67	11.41
Jul	4.58	5.03	4.23	1965	29	8.30	1994	1.21	1988	11.6	7.4	3.0	1.4	1.47	1.90	2.54	3.09	3.62	4.17	4.77	5.47	6.38	7.78	9.08
Aug	5.04	4.87	4.30	1964	29	12.11	1995	1.61	1999	11.5	7.5	3.4	1.6	1.78	2.26	2.95	3.53	4.08	4.65	5.27	5.98	6.91	8.33	9.63
Sep	3.69	3.53	7.53	1959	30	10.08	2000	.12	1981	8.3	5.3	2.3	.8	.32	.58	1.07	1.58	2.14	2.78	3.54	4.49	5.80	7.99	10.13
Oct	3.14	2.20	4.50	1990	23	14.67	1990	.02	1978	6.3	4.1	1.8	.8	.12	.26	.60	1.00	1.48	2.07	2.79	3.74	5.10	7.45	9.83
Nov	2.68	1.99	3.19	1979	11	8.04	1985	.71	1998	8.4	4.9	1.9	.9	.63	.88	1.27	1.62	1.97	2.34	2.76	3.25	3.91	4.94	5.91
Dec	3.39	2.77	4.00	1941	24	8.08	1981	.82	1988	10.1	6.1	2.3	.9	.90	1.22	1.71	2.14	2.57	3.01	3.50	4.09	4.85	6.05	7.17
Ann	47.23	46.07	7.53	Sep 1959	30	14.67	Oct 1990	.02	Oct 1978	113.8	75.4	32.5	13.6	35.06	37.45	40.49	42.79	44.82	46.77	48.79	51.00	53.67	57.53	60.85

+ 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: 1930-2001

(3) Derived from 1971-2000 serially complete daily data

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Climate Division: SC 7

NWS Call Sign:

Elevation: 324 Feet

Lat: 33°22N

Lon: 81°20W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.2	.0	#	0	2.5	1992	19	2.5	1992	2	1988	8	#	1988	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.4	.0	#	0	3.0	1979	18	3.0	1979	3	1979	18	#+	1989	.2	.2	.1	.0	.0	@	@	.0	.0
Mar	#	.0	0	0	#	1978	4	#	1978	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	.1	.0	0	0	2.0	1993	23	2.0	1993	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	3.0	Feb 1979	18	3.0	Feb 1979	3	Feb 1979	18	#+	Feb 1989	.4	.4	.1	.0	.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

Complete documentation available from:

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NWS Call Sign:

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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	4/15	4/12	4/08	4/05	4/01	3/28	3/22
32	4/16	4/10	4/05	4/01	3/28	3/24	3/20	3/16	3/09
28	4/05	3/29	3/24	3/20	3/16	3/12	3/08	3/03	2/24
24	3/13	3/05	2/27	2/22	2/17	2/12	2/07	2/01	1/24
20	3/04	2/24	2/18	2/13	2/08	2/03	1/29	1/22	1/09
16	2/20	2/09	2/01	1/25	1/17	1/08	12/26	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	10/09	10/13	10/17	10/20	10/22	10/25	10/28	10/31	11/05
32	10/17	10/23	10/28	11/01	11/05	11/08	11/12	11/17	11/24
28	10/28	11/04	11/08	11/12	11/16	11/20	11/24	11/28	12/05
24	11/12	11/21	11/27	12/03	12/08	12/13	12/18	12/25	1/03
20	12/01	12/10	12/16	12/22	12/27	1/02	1/08	1/15	1/30
16	12/09	12/20	12/28	1/05	1/13	1/21	2/03	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	217	210	205	200	196	192	188	183	176
32	252	241	233	227	221	215	208	200	190
28	272	263	256	250	244	239	233	226	216
24	328	314	305	298	291	284	277	268	257
20	>365	>365	334	324	317	311	305	298	289
16	>365	>365	>365	>365	>365	362	339	325	309

* 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)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	564	408	253	79	8	0	0	0	3	104	266	492	2177
60	423	280	145	22	0	0	0	0	0	44	155	353	1422
57	345	210	96	8	0	0	0	0	0	23	104	278	1064
55	298	170	69	4	0	0	0	0	0	14	76	235	866
50	200	91	24	0	0	0	0	0	0	3	28	146	492
32	16	0	0	0	0	0	0	0	0	0	0	7	23

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	485	518	794	967	1227	1376	1514	1469	1283	1025	743	547	11948
55	54	44	149	281	514	686	801	756	593	325	130	62	4395
57	39	28	114	225	452	626	739	694	533	272	98	44	3864
60	24	14	70	150	359	536	646	601	444	201	58	25	3128
65	0	2	23	56	212	386	491	446	296	106	19	10	2047
70	0	0	6	11	96	240	336	291	161	43	4	0	1188

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	262	327	554	726	980	1130	1261	1217	1040	770	502	320	262	589	1143	1869	2849	3979	5240	6457	7497	8267	8769	9089
45	155	216	404	576	825	980	1106	1062	890	615	362	198	155	371	775	1351	2176	3156	4262	5324	6214	6829	7191	7389
50	81	125	266	428	670	830	951	907	740	460	239	113	81	206	472	900	1570	2400	3351	4258	4998	5458	5697	5810
55	35	62	155	286	515	680	796	752	590	318	135	59	35	97	252	538	1053	1733	2529	3281	3871	4189	4324	4383
60	6	23	76	166	365	530	641	597	441	188	63	28	6	29	105	271	636	1166	1807	2404	2845	3033	3096	3124
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	170	223	361	477	653	761	851	829	704	512	332	205	170	393	754	1231	1884	2645	3496	4325	5029	5541	5873	6078

(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/normal/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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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