

Climatology of the United States

No. 20

1971-2000

Station: BAMBERG, SC

COOP ID: 380448

Climate Division: SC 7

NWS Call Sign:

Elevation: 165 Feet

Lat: 33°18N

Lon: 81°02W

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	57.0	36.3	46.7	82+	1957	29	58.9	1974	2	1985	21	36.8	1977	580	0	.0	.0	23.5	.1	12.2	.0
Feb	61.8	38.3	50.1	85+	1997	27	57.5	1990	8	1973	12	41.7	1978	421	2	.0	.0	23.9	.2	9.0	.0
Mar	69.8	44.7	57.3	92	1963	18	63.6	1997	10	1980	3	51.0	1971	262	21	.0	.1	30.3	@	3.6	.0
Apr	76.6	50.7	63.7	95+	1967	7	67.2	1999	28	1983	20	59.3	1983	91	50	.0	.9	30.0	.0	.2	.0
May	82.9	59.2	71.1	102	1953	31	74.6	1991	35	1963	2	67.6	1992	12	199	.0	5.2	31.0	.0	.0	.0
Jun	88.0	66.6	77.3	108	1952	26	81.0	1981	48+	1988	5	72.8	1997	0	369	.6	12.9	30.0	.0	.0	.0
Jul	90.8	70.6	80.7	109	1952	24	85.0	1986	55	1958	1	78.0	1975	0	486	1.6	20.6	31.0	.0	.0	.0
Aug	88.6	69.5	79.1	107	1983	21	82.3	1987	54	1957	8	76.6	1981	0	436	.7	15.1	31.0	.0	.0	.0
Sep	83.7	64.7	74.2	103+	1957	3	77.8	1980	37	1967	30	71.7	1984	2	279	.1	5.4	30.0	.0	.0	.0
Oct	74.8	53.2	64.0	99+	1954	6	69.6	1985	24	1952	30	57.9	1987	117	86	.0	.3	31.0	.0	.2	.0
Nov	66.6	45.0	55.8	90	1961	2	63.8	1985	17	1970	25	48.8	1976	296	19	.0	.0	29.3	.0	4.4	.0
Dec	58.8	38.4	48.6	82+	1967	19	56.8	1971	7+	1983	25	39.3	2000	516	7	.0	.0	25.4	.1	10.0	.0
Ann	75.0	53.1	64.1	109	Jul 1952	24	85.0	Jul 1986	2	Jan 1985	21	36.8	Jan 1977	2297	1954	3.0	60.5	346.4	.4	39.6	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1951-2001

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

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**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: BAMBERG, SC

COOP ID: 380448

Climate Division: SC 7

NWS Call Sign:

Elevation: 165 Feet

Lat: 33°18N

Lon: 81°02W

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	4.53	4.28	2.73	1976	27	8.64	1991	.75	1981	9.5	7.9	3.2	1.2	1.61	2.03	2.65	3.17	3.67	4.18	4.73	5.38	6.20	7.48	8.65	
Feb	3.82	3.43	6.50	1973	10	10.70	1973	.92	1977	7.5	6.0	2.8	1.0	.97	1.33	1.88	2.37	2.86	3.37	3.94	4.62	5.50	6.90	8.20	
Mar	4.26	3.69	2.50	1994	2	10.08	1980	1.02	1985	8.7	6.8	3.3	1.2	1.21	1.61	2.23	2.76	3.28	3.82	4.42	5.13	6.05	7.49	8.83	
Apr	3.02	2.62	2.71	1998	3	8.58	1998	.17	1972	6.9	5.2	2.1	.8	.40	.64	1.07	1.49	1.94	2.42	2.99	3.69	4.63	6.18	7.67	
May	3.56	2.84	5.64	1969	19	9.22	1976	.65	1983	8.3	6.3	2.6	.9	.80	1.13	1.65	2.12	2.59	3.08	3.64	4.31	5.20	6.60	7.92	
Jun	5.48	4.87	7.22	1997	28	11.60	1971	1.38	1998	9.6	7.6	3.4	1.7	1.72	2.24	3.02	3.68	4.32	4.98	5.71	6.56	7.66	9.37	10.96	
Jul	4.91	4.37	3.45	1998	16	11.68	1975	1.74	1987	9.9	7.9	3.2	1.5	1.67	2.14	2.81	3.39	3.94	4.50	5.12	5.84	6.77	8.20	9.52	
Aug	5.56	4.45	5.74	1964	29	15.26	1995	1.54	1997	10.3	8.0	3.7	1.7	1.51	2.03	2.83	3.54	4.23	4.95	5.75	6.70	7.94	9.88	11.69	
Sep	4.28	3.61	8.02	2000	23	13.75	2000	.31	1990	7.5	5.8	2.4	1.3	.40	.70	1.28	1.87	2.52	3.26	4.13	5.22	6.72	9.22	11.67	
Oct	2.80	2.20	3.07	1989	2	11.94	1990	.00	2000	5.8	4.4	1.7	.8	.13	.38	.80	1.21	1.65	2.14	2.72	3.44	4.43	6.06	7.65	
Nov	2.84	2.04	3.30	1986	1	10.27	1985	.53	1998	6.4	4.8	1.7	1.0	.49	.73	1.15	1.54	1.94	2.37	2.86	3.46	4.26	5.55	6.79	
Dec	3.51	2.86	3.55	1970	16	8.10	1997	.79	1988	8.1	6.0	2.6	.9	.99	1.33	1.83	2.27	2.70	3.14	3.64	4.22	4.97	6.16	7.26	
Ann	48.57	48.34	8.02	Sep 2000	23	15.26	Aug 1995	.00	Oct 2000	98.5	76.7	32.7	14.0	33.91	36.72	40.34	43.09	45.54	47.92	50.37	53.09	56.39	61.19	65.35	

+ 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: 1951-2001

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

Complete documentation available from:

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Station: BAMBERG, SC

COOP ID: 380448

Climate Division: SC 7

NWS Call Sign:

Elevation: 165 Feet

Lat: 33°18N

Lon: 81°02W

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	2.0	1977	31	3.3	1988	2+	1988	8	#+	1988	.2	.1	.0	.0	.0	.2	.0	.0	.0
Feb	1.0	.0	#	0	19.0	1973	10	22.0	1973	19	1973	10	1	1973	.2	.1	.1	@	@	.1	.1	@	@
Mar	.0	.0	#	0	.3	1993	13	.3	1993	2	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	.1	.0	#	0	2.0	1989	23	2.0	1989	2	1989	23	#	1989	.1	.1	.0	.0	.0	@	.0	.0	.0
Ann	1.3	.0	N/A	N/A	19.0	Feb 1973	10	22.0	Feb 1973	19	Feb 1973	10	1	Feb 1973	.5	.3	.1	@	@	.3	.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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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	4/21	4/15	4/11	4/08	4/05	4/02	3/29	3/25	3/20
32	4/08	4/02	3/28	3/25	3/21	3/18	3/14	3/10	3/04
28	3/24	3/17	3/12	3/07	3/03	2/27	2/23	2/18	2/11
24	3/09	3/01	2/23	2/19	2/14	2/09	2/05	1/30	1/22
20	2/28	2/19	2/12	2/06	1/31	1/25	1/19	1/10	0/00
16	2/07	1/27	1/18	1/07	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	10/14	10/19	10/23	10/26	10/29	11/01	11/05	11/08	11/14
32	10/24	10/30	11/03	11/06	11/09	11/12	11/16	11/20	11/25
28	11/08	11/14	11/19	11/22	11/26	11/30	12/04	12/08	12/14
24	11/21	12/02	12/10	12/17	12/24	12/30	1/06	1/14	1/25
20	12/08	12/18	12/26	1/02	1/08	1/15	1/22	2/02	0/00
16	12/28	1/11	1/23	2/05	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	229	222	216	211	207	202	197	191	184
32	256	248	242	237	232	228	223	217	209
28	291	283	277	272	267	262	257	251	243
24	>365	335	322	314	307	300	293	285	275
20	>365	>365	>365	344	332	324	316	309	299
16	>365	>365	>365	>365	>365	>365	>365	>365	349

* 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	580	421	262	91	12	0	0	0	2	117	296	516	2297
60	439	293	151	29	1	0	0	0	0	53	183	373	1522
57	361	222	101	11	0	0	0	0	0	28	129	296	1148
55	314	181	73	5	0	0	0	0	0	18	99	250	940
50	215	100	27	0	0	0	0	0	0	5	42	156	545
32	20	1	0	0	0	0	0	0	0	0	0	7	28

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	475	506	783	949	1210	1359	1509	1459	1267	992	713	521	11743
55	55	42	143	264	497	669	796	746	577	296	122	51	4258
57	40	27	109	210	435	609	734	684	517	245	92	36	3738
60	25	14	66	138	343	519	641	591	427	176	55	20	3015
65	0	2	21	50	199	369	486	436	279	86	19	7	1954
70	0	0	5	10	88	225	331	281	142	30	5	0	1117

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	261	328	557	731	982	1134	1281	1232	1047	769	493	310	261	589	1146	1877	2859	3993	5274	6506	7553	8322	8815	9125
45	157	215	405	581	827	984	1126	1077	897	614	352	195	157	372	777	1358	2185	3169	4295	5372	6269	6883	7235	7430
50	80	122	270	432	672	834	971	922	747	461	229	109	80	202	472	904	1576	2410	3381	4303	5050	5511	5740	5849
55	36	63	159	291	518	684	816	767	597	309	132	55	36	99	258	549	1067	1751	2567	3334	3931	4240	4372	4427
60	12	23	78	167	368	534	661	612	447	183	62	24	12	35	113	280	648	1182	1843	2455	2902	3085	3147	3171
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	155	209	356	471	658	780	879	858	727	490	305	180	155	364	720	1191	1849	2629	3508	4366	5093	5583	5888	6068

(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.
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