

Climatology of the United States

No. 20

1971-2000

Station: SUMTER, SC

COOP ID: 388440

Climate Division: SC 6

NWS Call Sign:

Elevation: 177 Feet Lat: 33° 56N Lon: 80° 21W

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	56.2	33.6	44.9	82+	1975	31	60.0	1974	2	1985	21	35.7	1977	634	0	.0	.0	22.8	.3	15.1	.0
Feb	60.6	35.7	48.2	85	1997	28	56.3	1976	4	1973	12	41.2	1978	472	0	.0	.0	22.6	.2	11.7	.0
Mar	68.5	42.3	55.4	90	1982	21	62.2	1974	11+	1980	3	50.0	1996	319	21	.0	@	29.6	@	5.6	.0
Apr	76.5	49.2	62.9	93+	1989	28	67.8	1977	25	1964	1	57.1	1983	121	57	.0	.9	30.0	.0	.6	.0
May	83.3	57.5	70.4	100+	1982	29	74.4	2000	37	1989	8	65.3	1992	21	189	@	5.2	31.0	.0	.0	.0
Jun	88.9	65.1	77.0	103+	1990	22	80.7	1981	46	1984	1	73.0	1992	0	360	.4	14.5	30.0	.0	.0	.0
Jul	91.8	69.5	80.7	105	1986	9	85.1	1993	55	1951	7	77.8	1975	0	485	2.0	22.5	31.0	.0	.0	.0
Aug	90.1	67.9	79.0	105+	1983	22	82.3	1999	50	1979	18	74.5	1981	0	434	.8	17.7	31.0	.0	.0	.0
Sep	85.2	62.6	73.9	102	1954	6	78.9	1980	38	1967	30	69.9	1981	4	271	.0	7.8	30.0	.0	.0	.0
Oct	76.1	50.4	63.3	100	1954	5	69.0	1984	24	1974	22	56.3	1987	130	75	.0	.3	31.0	.0	.6	.0
Nov	67.7	42.0	54.9	87+	1974	2	62.9	1985	16+	1970	25	49.3	1976	319	15	.0	.0	29.3	.0	6.4	.0
Dec	58.9	35.6	47.3	83	1998	9	57.4	1971	8+	1962	14	37.7	1989	557	6	.0	.0	24.4	.1	13.0	.0
Ann	75.3	51.0	63.2	105+	Jul 1986	9	85.1	Jul 1993	2	Jan 1985	21	35.7	Jan 1977	2577	1913	3.2	68.9	342.7	.6	53.0	.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: 1948-2001

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

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Climatology 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: SUMTER, SC

COOP ID: 388440

Climate Division: SC 6

NWS Call Sign:

Elevation: 177 Feet Lat: 33°56N

Lon: 80°21W

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	4.70	4.76	2.40	1995	7	8.25	1993	.92	1981	11.4	7.9	3.5	1.3	1.76	2.20	2.83	3.35	3.85	4.36	4.92	5.56	6.38	7.64	8.80
Feb	3.59	3.03	2.70	1985	6	7.60	1998	.98	1976	8.8	6.2	2.3	1.1	1.01	1.35	1.87	2.32	2.75	3.21	3.72	4.31	5.09	6.30	7.44
Mar	4.37	3.79	3.61	1970	22	11.71	1971	.75	1985	9.4	7.0	3.1	1.3	1.29	1.71	2.33	2.87	3.39	3.94	4.54	5.24	6.15	7.58	8.91
Apr	2.94	2.74	3.21	1958	16	6.02	1984	.06	1976	7.4	5.0	1.9	1.2	.35	.58	.99	1.40	1.84	2.32	2.89	3.59	4.54	6.11	7.63
May	3.47	3.23	3.60	1969	20	8.09	1976	.52	1983	8.4	6.0	2.4	.9	1.08	1.41	1.90	2.32	2.73	3.15	3.61	4.15	4.85	5.95	6.96
Jun	5.42	4.98	6.98	1954	18	14.33	1973	1.54	1986	10.2	7.4	3.4	1.6	1.68	2.20	2.96	3.62	4.25	4.91	5.64	6.49	7.58	9.29	10.88
Jul	5.48	5.46	5.50	1994	24	13.79	1991	1.08	1980	11.4	8.5	3.7	2.0	1.54	2.06	2.85	3.54	4.21	4.90	5.68	6.59	7.78	9.64	11.37
Aug	5.04	4.39	4.62	1995	27	8.60	1995	.77	1993	10.4	7.1	3.2	1.7	1.66	2.13	2.84	3.44	4.01	4.61	5.26	6.02	7.00	8.52	9.92
Sep	4.17	3.98	8.04	1959	30	9.73	1979	.32	1981	8.6	5.7	2.6	1.1	.81	1.19	1.80	2.36	2.93	3.54	4.24	5.08	6.18	7.96	9.65
Oct	3.06	2.14	8.21	1990	11	15.41	1990	.00	2000	6.4	4.2	2.0	.8	.08	.29	.69	1.13	1.62	2.18	2.87	3.73	4.94	6.98	9.00
Nov	2.86	2.69	2.90	1963	6	8.70	1985	.52	1973	7.8	4.8	2.1	.9	.65	.92	1.33	1.71	2.08	2.48	2.93	3.46	4.16	5.28	6.33
Dec	3.55	2.70	3.87	1992	28	7.30	1983	.66	1988	9.3	6.1	2.6	.9	.99	1.32	1.83	2.28	2.72	3.17	3.68	4.27	5.05	6.26	7.40
Ann	48.65	48.74	8.21	Oct 1990	11	15.41	Oct 1990	.00	Oct 2000	109.5	75.9	32.8	14.8	35.61	38.16	41.41	43.87	46.04	48.14	50.30	52.68	55.56	59.73	63.31

+ 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: 1948-2001

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

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Station: SUMTER, SC

COOP ID: 388440

Climate Division: SC 6

NWS Call Sign:

Elevation: 177 Feet

Lat: 33°56N

Lon: 80°21W

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	.0	.0	#	0	.0	0	0	.0	0	4	1988	8	#+	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.3	.0	0	0	4.8	1989	24	4.8	1989	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.3	1993	14	.3	1993	#	1993	14	#	1993	.1	.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	1	1993	23	#	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	4.8	Feb 1989	24	4.8	Feb 1989	4	Jan 1988	8	#+	Jan 2000	.2	.1	.1	.0	.0	.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:

Elevation: 177 Feet

Lat: 33° 56N

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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	4/22	4/17	4/13	4/09	4/06	4/03	3/31	3/27	3/22
32	4/11	4/05	4/01	3/29	3/25	3/22	3/18	3/14	3/08
28	4/02	3/25	3/20	3/15	3/11	3/06	3/02	2/24	2/17
24	3/10	3/03	2/26	2/22	2/18	2/15	2/11	2/06	1/30
20	3/03	2/21	2/13	2/07	1/31	1/25	1/17	1/07	0/00
16	2/15	2/06	1/30	1/23	1/16	1/05	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	10/09	10/15	10/19	10/22	10/25	10/28	11/01	11/05	11/10
32	10/21	10/28	11/01	11/05	11/08	11/12	11/16	11/20	11/26
28	10/28	11/03	11/08	11/12	11/15	11/19	11/23	11/27	12/04
24	11/12	11/21	11/28	12/04	12/09	12/15	12/21	12/28	1/06
20	12/01	12/12	12/20	12/27	1/02	1/09	1/17	1/28	0/00
16	12/24	1/03	1/11	1/20	1/29	2/14	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	224	216	211	206	201	197	192	186	178
32	253	244	238	232	227	222	217	211	202
28	277	267	260	254	249	243	237	230	221
24	324	313	306	299	293	287	281	273	263
20	>365	>365	>365	337	326	317	309	300	289
16	>365	>365	>365	>365	>365	>365	353	341	330

* 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

Complete documentation available from:

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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	634	472	319	121	21	0	0	0	4	130	319	557	2577
60	491	340	202	50	3	0	0	0	0	60	199	413	1758
57	411	265	146	25	1	0	0	0	0	33	143	333	1357
55	361	219	113	14	0	0	0	0	0	21	111	284	1123
50	253	127	51	3	0	0	0	0	0	5	49	183	671
32	31	2	0	0	0	0	0	0	0	0	0	11	44

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	430	454	725	926	1191	1350	1508	1457	1256	968	686	483	11434
55	47	27	125	250	478	660	795	744	566	276	107	43	4118
57	35	17	95	201	417	600	733	682	506	226	79	29	3620
60	22	8	58	136	327	510	640	589	417	160	46	17	2930
65	0	0	21	57	189	360	485	434	271	75	15	6	1913
70	0	0	6	15	87	217	330	280	141	26	3	0	1105

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	215	280	493	695	950	1117	1271	1217	1026	731	455	266	215	495	988	1683	2633	3750	5021	6238	7264	7995	8450	8716
45	124	174	349	545	795	967	1116	1062	876	576	318	163	124	298	647	1192	1987	2954	4070	5132	6008	6584	6902	7065
50	62	99	225	399	641	817	961	907	726	422	205	89	62	161	386	785	1426	2243	3204	4111	4837	5259	5464	5553
55	29	47	126	260	487	667	806	752	576	281	113	43	29	76	202	462	949	1616	2422	3174	3750	4031	4144	4187
60	7	16	62	150	335	517	651	597	427	159	51	15	7	23	85	235	570	1087	1738	2335	2762	2921	2972	2987
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	142	186	322	451	633	761	862	832	694	472	298	176	142	328	650	1101	1734	2495	3357	4189	4883	5355	5653	5829

(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