

Climatology of the United States

No. 20

1971-2000

Station: SANTUCK, SC

COOP ID: 387722

Climate Division: SC 2

NWS Call Sign:

Elevation: 520 Feet Lat: 34° 38N Lon: 81° 31W

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	53.3	32.9	43.1	81	1949	11	55.0	1974	-4	1985	21	32.8	1977	678	0	.0	.0	19.4	.5	15.8	@
Feb	58.4	35.3	46.9	82+	1996	27	54.1	1990	5	1958	17	39.1	1978	508	0	.0	.0	21.2	.2	12.9	.0
Mar	66.7	42.2	54.5	90	1945	17	59.5	1997	7	1980	3	49.3	1971	338	11	.0	.0	29.4	@	6.6	.0
Apr	75.0	49.4	62.2	93+	2001	10	66.8	1981	25+	1943	4	58.2	1983	121	36	.0	.3	29.9	.0	1.0	.0
May	81.4	57.8	69.6	100	1941	23	73.6	2000	32+	1989	8	65.8	1997	26	169	.0	2.5	31.0	.0	@	.0
Jun	87.5	65.4	76.5	106+	1954	27	80.5	1981	42	1930	1	72.8+	1979	1	344	.2	11.0	30.0	.0	.0	.0
Jul	90.5	69.6	80.1	108	1952	29	84.7	1993	48	1933	5	76.9	1971	0	467	1.4	19.1	31.0	.0	.0	.0
Aug	88.3	68.6	78.5	105+	1968	23	82.1	1987	48	1930	22	75.5	1992	0	415	.5	13.4	31.0	.0	.0	.0
Sep	82.0	62.7	72.4	103	1939	9	76.3	1980	36	1967	30	69.9	1994	7	228	.0	3.9	30.0	.0	.0	.0
Oct	72.5	50.7	61.6	100	1954	6	68.8	1984	24	1965	30	55.8	1987	160	54	.0	.2	30.9	.0	.7	.0
Nov	63.8	42.1	53.0	88	1961	2	61.0	1985	12+	1950	26	46.9	1976	367	5	.0	.0	28.3	.0	6.8	.0
Dec	55.5	35.1	45.3	85	1931	12	53.3	1971	-1	1935	31	36.8	2000	610	0	.0	.0	21.5	.2	14.1	.0
Ann	72.9	51.0	62.0	108	Jul 1952	29	84.7	Jul 1993	-4	Jan 1985	21	32.8	Jan 1977	2816	1729	2.1	50.4	333.6	.9	57.9	@

+ 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

051-A

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: SANTUCK, SC

COOP ID: 387722

Climate Division: SC 2

NWS Call Sign:

Elevation: 520 Feet Lat: 34°38N

Lon: 81°31W

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	4.59	4.75	4.00	1962	6	7.82	1975	.47	1981	11.1	7.4	3.5	1.4	1.57	2.01	2.64	3.18	3.69	4.22	4.79	5.47	6.33	7.66	8.89
Feb	4.01	4.28	2.75	1948	10	9.22	1979	.73	1978	9.5	6.8	2.7	1.2	1.07	1.45	2.03	2.54	3.04	3.56	4.15	4.84	5.74	7.15	8.47
Mar	4.85	4.74	3.21	1953	23	10.33	1980	.83	1985	10.8	7.8	3.5	1.4	1.46	1.92	2.61	3.20	3.78	4.38	5.04	5.82	6.82	8.39	9.85
Apr	3.09	2.95	3.24	1937	24	9.91	1998	.31	1976	8.8	5.6	2.1	.6	.65	.94	1.39	1.80	2.22	2.66	3.16	3.76	4.54	5.80	6.99
May	3.22	2.96	4.50	1966	28	7.08	1975	.23	2000	9.8	5.8	2.2	.8	.70	1.00	1.47	1.90	2.32	2.78	3.30	3.91	4.72	6.02	7.24
Jun	3.95	3.69	2.84	1961	21	9.49	1995	.59	1990	10.3	6.4	2.9	1.3	1.19	1.56	2.13	2.61	3.08	3.57	4.10	4.74	5.55	6.83	8.01
Jul	3.95	3.25	4.30	1959	21	9.19	1975	1.05	1987	11.2	6.8	2.3	1.0	1.08	1.45	2.02	2.52	3.01	3.52	4.08	4.75	5.62	6.99	8.27
Aug	3.87	3.43	6.14	1967	23	10.34	1995	.84	1997	9.2	5.7	2.3	1.1	.92	1.28	1.85	2.35	2.85	3.38	3.97	4.68	5.61	7.08	8.46
Sep	4.23	3.72	4.67	1936	30	9.26	1998	.14	1985	8.7	5.8	2.8	1.4	.58	.92	1.53	2.12	2.73	3.41	4.20	5.16	6.47	8.60	10.66
Oct	3.55	3.19	5.02	1934	10	11.96	1990	.00	2000	6.5	4.4	2.4	1.2	.20	.54	1.09	1.61	2.17	2.78	3.49	4.38	5.58	7.55	9.47
Nov	3.42	3.29	4.26	1957	18	8.36	1985	.83	1973	9.0	5.8	2.7	.9	1.22	1.54	2.00	2.40	2.77	3.15	3.57	4.06	4.68	5.64	6.52
Dec	3.47	3.43	3.15	1931	4	8.48	1983	.73	1988	10.1	6.9	2.5	.5	1.02	1.35	1.85	2.28	2.69	3.13	3.60	4.17	4.90	6.04	7.10
Ann	46.20	46.74	6.14	Aug 1967	23	11.96	Oct 1990	.00	Oct 2000	115.0	75.2	31.9	12.8	35.46	37.60	40.31	42.34	44.12	45.84	47.60	49.53	51.86	55.21	58.07

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: SANTUCK, SC

COOP ID: 387722

Climate Division: SC 2

NWS Call Sign:

Elevation: 520 Feet

Lat: 34°38N

Lon: 81°31W

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	1.4	.0	#	0	9.0	2000	24	12.9	2000	10	2000	24	1+	2000	.9	.4	.1	.1	.0	1.2	.5	.2	@
Feb	1.3	.0	#	0	5.5	1973	10	8.3	1979	5	1979	18	1	1979	.7	.4	.1	.1	.0	.6	.2	.1	.0
Mar	.7	.0	#	0	7.2	1983	24	8.0	1983	7	1983	24	#+	1993	.3	.2	.1	@	.0	.2	.1	.1	.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	.8	2000	19	.8	2000	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.5	.0	#	0	7.8	1971	3	7.8	1971	8	1971	3	1	1971	.4	.1	.1	@	.0	.1	.1	@	.0
Ann	3.9	.0	N/A	N/A	9.0	Jan 2000	24	12.9	Jan 2000	10	Jan 2000	24	1+	Jan 2000	2.3	1.1	.4	.2	.0	2.1	.9	.4	@

+ 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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No. 20
1971-2000**

Station: SANTUCK, SC

COOP ID: 387722

Climate Division: SC 2

NWS Call Sign:

Elevation: 520 Feet

Lat: 34°38N

Lon: 81°31W

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	4/23	4/20	4/18	4/16	4/13	4/11	4/08	4/03
32	4/22	4/16	4/12	4/08	4/04	4/01	3/28	3/24	3/17
28	4/06	3/31	3/26	3/23	3/19	3/16	3/12	3/08	3/02
24	3/19	3/13	3/08	3/05	3/01	2/26	2/22	2/18	2/12
20	3/10	3/01	2/23	2/17	2/12	2/07	2/01	1/26	1/17
16	3/01	2/20	2/13	2/07	2/02	1/27	1/20	1/09	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	10/06	10/11	10/14	10/17	10/20	10/22	10/25	10/28	11/02
32	10/18	10/23	10/28	10/31	11/03	11/06	11/10	11/14	11/20
28	10/30	11/05	11/09	11/12	11/15	11/19	11/22	11/26	12/02
24	11/11	11/18	11/23	11/27	12/01	12/05	12/09	12/15	12/21
20	11/28	12/04	12/09	12/13	12/16	12/20	12/24	12/29	1/04
16	12/09	12/20	12/27	1/03	1/09	1/16	1/24	2/06	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	203	198	193	190	186	183	179	175	169
32	236	228	222	217	212	207	202	196	188
28	264	256	250	245	241	236	231	225	217
24	295	288	283	278	274	270	265	260	253
20	338	327	319	313	307	301	294	287	276
16	>365	>365	>365	350	337	328	321	312	301

* 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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Climate Division: SC 2 NWS Call Sign: Elevation: 520 Feet Lat: 34°38N Lon: 81°31W

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	678	508	338	121	26	1	0	0	7	160	367	610	2816
60	534	374	209	44	4	0	0	0	1	78	235	464	1943
57	449	296	148	19	1	0	0	0	0	45	169	379	1506
55	395	247	114	10	0	0	0	0	0	29	131	326	1252
50	274	146	49	1	0	0	0	0	0	8	60	211	749
32	31	3	0	0	0	0	0	0	0	0	0	14	48

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	375	419	696	906	1166	1333	1490	1438	1211	917	629	427	11007
55	27	19	97	225	453	643	777	725	521	233	70	26	3816
57	19	12	69	175	391	583	715	663	461	187	47	17	3339
60	11	6	37	110	302	493	622	570	372	127	24	9	2683
65	0	0	11	36	169	344	467	415	228	54	5	0	1729
70	0	0	1	7	74	203	312	262	105	16	0	0	980

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	168	240	449	656	912	1097	1246	1194	972	667	393	208	168	408	857	1513	2425	3522	4768	5962	6934	7601	7994	8202
45	91	141	310	508	757	947	1091	1039	822	513	260	120	91	232	542	1050	1807	2754	3845	4884	5706	6219	6479	6599
50	43	75	189	360	603	797	936	884	672	366	154	64	43	118	307	667	1270	2067	3003	3887	4559	4925	5079	5143
55	17	33	101	232	449	647	781	729	523	228	80	28	17	50	151	383	832	1479	2260	2989	3512	3740	3820	3848
60	0	8	43	126	298	497	626	574	376	123	34	2	0	8	51	177	475	972	1598	2172	2548	2671	2705	2707
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	100	155	282	420	607	747	853	825	659	420	239	122	100	255	537	957	1564	2311	3164	3989	4648	5068	5307	5429

(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