

Climatology of the United States

No. 20

1971-2000

Station: SULLIVANS ISLAND, SC

COOP ID: 388405

Climate Division: SC 7

NWS Call Sign:

Elevation: 3 Feet

Lat: 32°46N

Lon: 79°51W

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	56.6	37.5	47.1	78	1974	12	59.7	1974	9	1985	21	37.9	1977	568	0	.0	.0	26.2	.1	7.2	.0
Feb	58.9	38.2	48.6	81+	2001	27	56.7	1990	12	1973	12	38.8	1978	461	1	.0	.0	25.9	.1	5.0	.0
Mar	65.1	45.4	55.3	90	1974	10	64.5	1997	21	1980	3	47.9	1971	321	18	.0	@	30.4	.0	1.2	.0
Apr	72.2	53.7	63.0	90+	1985	29	68.1	1979	32	1975	6	58.5	1993	117	54	.0	.1	30.0	.0	@	.0
May	79.8	63.2	71.5	99	1953	26	76.0	2000	37	1971	30	68.1	1994	15	216	.0	1.3	31.0	.0	.0	.0
Jun	85.2	70.3	77.8	105	1952	26	82.8	1998	51+	1997	10	74.0	1997	0	382	.2	7.2	30.0	.0	.0	.0
Jul	88.5	73.7	81.1	101	1990	6	83.6	1999	59	1970	29	78.5	1973	0	499	.3	14.1	31.0	.0	.0	.0
Aug	87.4	72.5	80.0	103	1999	2	84.2	1999	57	1986	29	76.9	1976	0	465	.1	10.6	31.0	.0	.0	.0
Sep	83.1	68.3	75.7	97+	1970	7	78.9	1998	48	1970	29	72.2	1979	1	321	.0	3.3	30.0	.0	.0	.0
Oct	75.9	57.9	66.9	94	1986	4	72.1+	1985	33	1974	22	61.7	1987	71	131	.0	.2	31.0	.0	.0	.0
Nov	68.0	48.6	58.3	89	1992	3	65.6	1985	22	1970	25	51.2	1976	229	27	.0	.0	29.9	.0	.5	.0
Dec	59.7	40.2	50.0	84	1987	10	58.6	1971	11	2000	20	41.2	2000	477	10	.0	.0	28.5	@	4.6	.0
Ann	73.4	55.8	64.6	105	Jun 1952	26	84.2	Aug 1999	9	Jan 1985	21	37.9	Jan 1977	2260	2124	.6	36.8	354.9	.2	18.5	.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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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: SULLIVANS ISLAND, SC

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NWS Call Sign:

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Lat: 32°46N

Lon: 79°51W

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	4.40	4.06	3.11	1998	23	8.84	1998	.65	1974	10.8	7.3	3.2	1.1	.96	1.36	2.01	2.59	3.18	3.80	4.50	5.34	6.44	8.21	9.87
Feb	3.23	3.16	6.04	1998	17	9.28	1998	.45	1991	8.0	5.3	2.1	.9	.75	1.05	1.52	1.95	2.37	2.82	3.32	3.92	4.70	5.95	7.13
Mar	4.16	3.75	3.15	1959	6	8.81	1983	1.24	1995	9.3	6.9	2.9	1.1	1.60	1.99	2.54	3.00	3.43	3.87	4.35	4.91	5.61	6.70	7.69
Apr	2.92	2.76	4.65	1984	9	7.62	1982	.00+	1976	7.0	4.7	1.6	.6	.00	.50	1.08	1.55	2.00	2.49	3.03	3.65	4.50	5.86	7.15
May	2.88	2.27	6.50	1976	24	14.33	1976	.07	2000	7.1	5.0	1.8	.6	.24	.44	.82	1.22	1.66	2.16	2.75	3.50	4.54	6.27	7.97
Jun	4.89	3.57	5.22	1997	6	17.90	1973	.89	1978	9.4	6.2	2.7	1.4	.86	1.29	2.01	2.68	3.36	4.10	4.95	5.97	7.33	9.53	11.63
Jul	4.76	4.91	6.05	1953	20	11.33	1994	1.25	1973	9.7	7.2	2.8	1.3	1.51	1.96	2.63	3.20	3.75	4.33	4.96	5.69	6.64	8.12	9.49
Aug	6.27	6.14	4.76	1961	5	20.62	1971	1.02	1983	10.5	7.1	3.6	1.6	1.13	1.68	2.60	3.46	4.33	5.27	6.35	7.65	9.38	12.16	14.82
Sep	5.32	5.61	4.50	1979	4	11.43	1988	.45	1986	9.9	6.4	3.4	1.7	.89	1.35	2.13	2.86	3.61	4.43	5.36	6.49	8.01	10.46	12.81
Oct	3.80	2.23	9.83	1990	11	19.23	1994	.08	2000	6.5	4.4	1.8	.8	.21	.43	.88	1.40	1.98	2.67	3.51	4.58	6.10	8.67	11.24
Nov	3.10	2.52	7.57	1969	1	6.98	1992	.44	1996	8.6	5.0	2.3	.9	.65	.94	1.39	1.81	2.22	2.67	3.17	3.77	4.56	5.82	7.02
Dec	3.65	2.99	3.90	1971	3	7.26	1994	.74	1984	9.6	5.7	2.3	1.1	1.17	1.51	2.03	2.46	2.89	3.32	3.80	4.36	5.09	6.21	7.25
Ann	49.38	49.55	9.83	Oct 1990	11	20.62	Aug 1971	.00+	Apr 1976	106.4	71.2	30.5	13.1	33.14	36.21	40.19	43.23	45.95	48.60	51.34	54.39	58.11	63.54	68.26

+ 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

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Lat: 32°46N

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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	.5	1977	31	.7	1977	#	1977	18	#	1977	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1996	16	#+	1996	#	1996	16	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1993	13	#	1993	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	.5	Jan 1977	31	.7	Jan 1977	#+	Feb 1996	16	#+	Feb 1996	.1	.0	.0	.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

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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	4/10	4/02	3/28	3/23	3/19	3/15	3/10	3/05	2/25
32	3/24	3/15	3/09	3/04	2/27	2/23	2/18	2/12	2/03
28	3/19	3/09	3/02	2/23	2/17	2/11	2/05	1/28	1/15
24	3/05	2/23	2/15	2/08	2/01	1/24	1/15	12/29	0/00
20	2/13	2/01	1/23	1/12	12/26	0/00	0/00	0/00	0/00
16	1/24	1/03	0/00	0/00	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	10/30	11/06	11/12	11/16	11/21	11/25	11/30	12/05	12/13
32	11/14	11/22	11/28	12/03	12/07	12/12	12/16	12/22	12/30
28	11/28	12/09	12/17	12/23	12/30	1/05	1/12	1/21	2/03
24	12/12	12/23	12/31	1/07	1/14	1/21	1/31	2/17	0/00
20	12/22	1/04	1/15	1/27	2/15	0/00	0/00	0/00	0/00
16	1/11	1/30	0/00	0/00	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	274	264	257	252	246	241	235	228	218
32	318	305	297	289	282	275	267	259	246
28	>365	343	327	317	309	300	292	282	269
24	>365	>365	>365	>365	344	332	323	313	301
20	>365	>365	>365	>365	>365	>365	>365	350	338
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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	568	461	321	117	15	0	0	0	1	71	229	477	2260
60	427	332	201	47	2	0	0	0	0	25	128	339	1501
57	349	259	144	23	0	0	0	0	0	12	83	266	1136
55	302	214	112	13	0	0	0	0	0	6	59	224	930
50	204	126	50	2	0	0	0	0	0	1	20	137	540
32	17	2	0	0	0	0	0	0	0	0	0	6	25

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	482	466	720	927	1224	1372	1522	1488	1310	1083	789	562	11945
55	54	34	118	250	511	682	809	775	620	376	157	68	4454
57	40	22	89	200	449	622	747	713	560	320	121	48	3931
60	24	11	52	134	357	532	654	620	470	240	77	28	3199
65	0	1	18	54	216	382	499	465	321	131	27	10	2124
70	0	0	4	14	104	238	344	310	179	56	7	0	1256

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	304	348	560	750	1011	1163	1301	1269	1114	871	611	396	304	652	1212	1962	2973	4136	5437	6706	7820	8691	9302	9698
45	181	222	409	600	856	1013	1146	1114	964	716	462	264	181	403	812	1412	2268	3281	4427	5541	6505	7221	7683	7947
50	90	121	271	451	701	863	991	959	814	562	319	149	90	211	482	933	1634	2497	3488	4447	5261	5823	6142	6291
55	35	53	147	304	546	713	836	804	664	410	195	72	35	88	235	539	1085	1798	2634	3438	4102	4512	4707	4779
60	6	15	62	172	391	563	681	649	514	263	101	28	6	21	83	255	646	1209	1890	2539	3053	3316	3417	3445
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	157	189	319	460	695	831	932	915	798	571	364	211	157	346	665	1125	1820	2651	3583	4498	5296	5867	6231	6442

(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