

Climatology of the United States

No. 20

1971-2000

Station: HAMPTON, SC

COOP ID: 383906

Climate Division: SC 7

NWS Call Sign:

Elevation: 95 Feet

Lat: 32° 52N

Lon: 81° 07W

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	60.1	38.0	49.1	83+	1975	30	62.8	1974	1	1985	21	39.1	1977	511	3	.0	.0	26.2	.1	10.6	.0
Feb	64.1	40.2	52.2	85	1962	28	58.8	1990	12	1958	17	43.2	1978	367	7	.0	.0	25.4	.1	7.3	.0
Mar	71.5	46.9	59.2	93	1974	10	65.9	1997	16	1980	3	53.9	1981	209	29	.0	.1	30.5	.0	2.4	.0
Apr	78.1	52.6	65.4	94	1986	27	69.7	1999	29	1983	20	61.2	1983	62	73	.0	1.1	30.0	.0	.1	.0
May	84.2	61.0	72.6	100+	1953	31	76.3	2000	37	1963	2	69.0	1976	5	239	.0	5.9	31.0	.0	.0	.0
Jun	89.2	68.0	78.6	105	1954	27	82.8	1998	47	1984	1	75.0	1976	0	409	.6	16.8	30.0	.0	.0	.0
Jul	91.8	71.8	81.8	107	1980	13	85.8	1993	54	1988	1	78.2	1971	0	520	2.0	23.9	31.0	.0	.0	.0
Aug	90.1	70.7	80.4	106	1954	18	83.9	1999	55	1968	29	77.7	1976	0	477	.7	19.7	31.0	.0	.0	.0
Sep	85.9	66.0	76.0	102	1980	15	79.6	1980	37	1967	30	73.1	1976	1	329	.1	9.3	30.0	.0	.0	.0
Oct	78.1	54.6	66.4	97	1954	5	71.5	1985	23	1976	29	60.3	1976	77	118	.0	.7	31.0	.0	.2	.0
Nov	70.3	46.5	58.4	89	1961	2	65.3	1985	11	1970	25	50.3	1976	236	37	.0	.0	29.7	.0	3.5	.0
Dec	62.3	40.1	51.2	83	1956	6	58.6	1971	8+	1983	26	42.2	1989	439	10	.0	.0	27.5	.1	8.6	.0
Ann	77.1	54.7	65.9	107	Jul 1980	13	85.8	Jul 1993	1	Jan 1985	21	39.1	Jan 1977	1907	2251	3.4	77.5	353.3	.3	32.7	.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

030-A

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: HAMPTON, SC

COOP ID: 383906

Climate Division: SC 7

NWS Call Sign:

Elevation: 95 Feet

Lat: 32°52N

Lon: 81°07W

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	4.45	4.38	3.04	1976	27	8.68	1991	.70	1981	11.0	7.3	3.2	1.2	1.75	2.16	2.75	3.23	3.69	4.15	4.66	5.24	5.98	7.11	8.14
Feb	3.41	3.60	3.67	1956	6	8.13	1998	.92	1991	8.4	5.9	2.4	1.1	1.03	1.35	1.84	2.25	2.66	3.08	3.55	4.10	4.80	5.91	6.93
Mar	4.14	3.72	3.40	1980	13	11.92	1980	.95	1985	9.6	6.5	3.0	1.3	1.12	1.51	2.11	2.63	3.15	3.69	4.28	4.99	5.91	7.36	8.71
Apr	3.06	2.33	3.10	1955	14	8.81	1991	.49	1987	7.5	5.1	2.0	.9	.49	.75	1.20	1.62	2.06	2.53	3.08	3.74	4.63	6.07	7.45
May	3.41	2.74	5.60	1969	19	11.96	1976	.71	1993	8.6	5.8	2.6	.8	.72	1.03	1.53	1.98	2.44	2.93	3.48	4.14	5.02	6.41	7.73
Jun	5.71	5.20	5.58	1987	19	13.80	1973	2.01	1993	10.1	7.7	3.8	1.8	2.14	2.68	3.44	4.08	4.68	5.30	5.97	6.75	7.74	9.26	10.65
Jul	5.03	4.68	5.80	1960	8	12.05	1975	.85	1980	11.4	7.8	3.1	1.5	1.25	1.72	2.46	3.11	3.75	4.43	5.18	6.08	7.26	9.12	10.87
Aug	6.07	6.04	5.35	1964	29	12.75	1986	2.01	1978	12.1	8.6	4.0	2.0	1.81	2.39	3.25	4.00	4.72	5.48	6.31	7.29	8.55	10.52	12.36
Sep	3.92	3.66	6.75	1969	1	9.87	1979	.39	1986	8.3	5.6	2.6	1.2	.50	.82	1.37	1.92	2.49	3.13	3.87	4.79	6.02	8.05	10.02
Oct	2.86	2.08	4.28	1992	9	12.17	1990	.02	2000	6.7	3.9	1.6	.8	.13	.28	.60	.98	1.42	1.95	2.59	3.43	4.61	6.64	8.68
Nov	2.77	2.73	3.57	1985	20	7.95	1985	.49	1998	7.6	4.2	1.5	.8	.45	.69	1.10	1.48	1.87	2.30	2.79	3.39	4.18	5.47	6.71
Dec	3.41	3.10	3.03	1999	19	7.08	1981	.81	1988	9.3	5.9	2.5	.9	.99	1.31	1.80	2.22	2.64	3.07	3.54	4.10	4.83	5.97	7.03
Ann	48.24	47.58	6.75	Sep 1969	1	13.80	Jun 1973	.02	Oct 2000	110.6	74.3	32.3	14.3	36.45	38.79	41.75	43.98	45.95	47.84	49.78	51.92	54.49	58.20	61.39

+ 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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Station: HAMPTON, SC

COOP ID: 383906

Climate Division: SC 7

NWS Call Sign:

Elevation: 95 Feet

Lat: 32° 52N

Lon: 81° 07W

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	.0	#	0	1.0	1988	8	1.3	1977	1	1988	8	#	1988	.1	@	.0	.0	.0	@	.0	.0	.0
Feb	.6	.0	#	0	8.0	1973	10	11.0	1973	#	1996	16	#	1996	.2	.2	.1	@	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1993	14	#+	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	#	1984	22	#	1984	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.5	1989	23	3.0	1989	3	1989	24	#	1989	.1	.1	.0	.0	.0	.1	@	.0	.0
Ann	.8	.0	N/A	N/A	8.0	Feb 1973	10	11.0	Feb 1973	3	Dec 1989	24	#+	Feb 1996	.4	.3	.1	@	.0	.1	@	.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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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	4/19	4/12	4/07	4/03	3/31	3/27	3/23	3/18	3/12
32	4/01	3/26	3/22	3/18	3/14	3/10	3/07	3/02	2/24
28	3/16	3/09	3/03	2/27	2/23	2/18	2/14	2/08	2/01
24	3/08	2/27	2/22	2/16	2/12	2/07	2/02	1/27	1/19
20	2/17	2/07	1/31	1/24	1/16	1/08	12/27	0/00	0/00
16	2/03	1/21	1/08	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	10/15	10/21	10/25	10/29	11/01	11/04	11/08	11/12	11/18
32	10/28	11/03	11/08	11/12	11/15	11/19	11/23	11/27	12/04
28	11/07	11/15	11/22	11/27	12/02	12/07	12/12	12/18	12/27
24	11/21	12/03	12/11	12/19	12/25	1/01	1/09	1/17	1/29
20	12/08	12/20	12/28	1/05	1/13	1/22	2/04	0/00	0/00
16	1/01	1/17	2/04	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	244	234	227	221	215	209	203	195	185
32	272	263	256	251	246	240	235	228	219
28	312	300	292	285	279	274	267	260	250
24	>365	340	328	319	312	305	297	288	277
20	>365	>365	>365	>365	>365	350	336	324	312
16	>365	>365	>365	>365	>365	>365	>365	>365	347

* 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	511	367	209	62	5	0	0	0	1	77	236	439	1907
60	376	242	111	15	0	0	0	0	0	28	139	303	1214
57	305	179	68	5	0	0	0	0	0	13	94	233	897
55	262	144	46	2	0	0	0	0	0	8	69	192	723
50	174	73	14	0	0	0	0	0	0	1	26	110	398
32	14	0	0	0	0	0	0	0	0	0	0	2	16

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	541	564	843	1001	1258	1399	1543	1500	1319	1065	791	596	12420
55	77	64	176	313	545	709	830	787	629	360	170	73	4733
57	57	43	136	256	483	649	768	725	569	303	135	51	4175
60	36	22	86	176	390	559	675	632	479	225	90	29	3399
65	3	7	29	73	239	409	520	477	329	118	37	10	2251
70	2	0	7	17	113	262	365	322	186	46	12	0	1332

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	312	376	608	769	1024	1172	1310	1263	1089	827	558	364	312	688	1296	2065	3089	4261	5571	6834	7923	8750	9308	9672
45	194	255	457	619	869	1022	1155	1108	939	673	409	238	194	449	906	1525	2394	3416	4571	5679	6618	7291	7700	7938
50	106	157	315	470	714	872	1000	953	789	518	282	141	106	263	578	1048	1762	2634	3634	4587	5376	5894	6176	6317
55	51	79	191	327	559	722	845	798	639	367	171	72	51	130	321	648	1207	1929	2774	3572	4211	4578	4749	4821
60	20	35	99	199	404	572	690	643	489	229	84	32	20	55	154	353	757	1329	2019	2662	3151	3380	3464	3496
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	190	239	385	500	689	805	894	876	755	545	359	226	190	429	814	1314	2003	2808	3702	4578	5333	5878	6237	6463

(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