

Climatography of the United States

No. 20

1971-2000

Station: HOLLY HILL, SC

COOP ID: 384197

Climate Division: SC 6

NWS Call Sign:

Elevation: 100 Feet Lat: 33° 20N Lon: 80° 25W

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	58.5	35.5	47.0	81+	2000	4	58.7	1974	3	1985	21	36.4	1977	569	0	.0	.0	25.4	.2	11.5	.0
Feb	62.1	37.2	49.7	86+	1997	28	57.9	1990	9	1973	12	41.5	1978	431	1	.0	.0	24.6	.2	9.1	.0
Mar	69.6	43.7	56.7	90	1982	20	65.0	1997	9	1980	3	52.0	1996	276	17	.0	@	30.3	@	3.0	.0
Apr	77.0	51.4	64.2	94+	1988	22	68.2	1999	28+	1987	1	59.2	1983	85	61	.0	1.1	30.0	.0	.4	.0
May	83.7	59.8	71.8	101	2000	25	76.2	2000	35	1963	2	67.8	1976	10	218	@	5.5	31.0	.0	.0	.0
Jun	88.9	67.0	78.0	103+	1977	12	81.5	1981	48	1984	1	74.0	1972	0	389	.5	13.8	30.0	.0	.0	.0
Jul	92.2	70.9	81.6	106+	1986	20	86.0	1986	55+	1975	7	77.6	1975	0	512	1.5	17.0	31.0	.0	.0	.0
Aug	90.4	70.1	80.3	104	1980	1	84.3	1987	54	1999	31	77.9	1974	0	474	.7	17.6	31.0	.0	.0	.0
Sep	85.9	65.7	75.8	101	1980	16	80.3	1980	37	1967	30	72.9	1976	1	325	.1	7.3	30.0	.0	.0	.0
Oct	77.8	54.5	66.2	93+	1986	5	71.6	1984	27+	1967	30	61.1	1976	80	116	.0	.3	31.0	.0	.2	.0
Nov	69.2	44.3	56.8	91	1961	2	64.5	1985	18+	1970	25	50.3	1976	268	20	.0	.0	29.6	.0	3.7	.0
Dec	61.1	37.5	49.3	82	1984	30	58.7	1971	1	2000	31	38.8	1989	496	10	.0	.0	27.1	.1	10.4	.0
Ann	76.4	53.1	64.8	106+	Jul 1986	20	86.0	Jul 1986	1	Dec 2000	31	36.4	Jan 1977	2216	2143	2.8	62.6	351.0	.5	38.3	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1957-2001

(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: HOLLY HILL, SC

COOP ID: 384197

Climate Division: SC 6

NWS Call Sign:

Elevation: 100 Feet Lat: 33°20N

Lon: 80°25W

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	4.01	3.73	2.75	2000	24	6.65	1993	.92	1990	9.9	7.5	2.6	1.1	1.38	1.76	2.31	2.78	3.23	3.69	4.19	4.78	5.53	6.69	7.76
Feb	3.58	3.26	4.03	1973	2	7.38	1998	1.40	1989	8.7	5.8	2.5	1.0	1.20	1.54	2.03	2.46	2.86	3.28	3.74	4.27	4.96	6.02	7.00
Mar	4.23	3.93	4.75	1959	6	10.96	1983	1.14	1985	9.4	6.7	3.2	1.2	1.36	1.77	2.36	2.86	3.35	3.86	4.41	5.06	5.89	7.18	8.38
Apr	3.19	3.31	2.98	1997	28	6.85	1998	.04	1972	7.5	5.3	2.1	.8	.42	.68	1.13	1.58	2.05	2.56	3.16	3.90	4.90	6.53	8.12
May	3.96	3.18	4.60	1969	19	10.04	1976	.65	2000	9.9	6.9	2.4	.9	1.01	1.39	1.96	2.47	2.97	3.50	4.08	4.78	5.69	7.13	8.47
Jun	5.51	4.67	5.08	1973	11	16.92	1973	1.39	1984	11.0	7.7	3.0	1.5	1.58	2.10	2.89	3.58	4.24	4.94	5.71	6.62	7.80	9.65	11.37
Jul	5.12	4.56	3.67	1982	14	9.62	1984	1.41+	1988	11.2	8.1	3.4	1.4	1.59	2.08	2.80	3.42	4.03	4.65	5.33	6.13	7.17	8.78	10.28
Aug	5.79	5.59	4.35	1964	29	10.89	1995	1.25	1997	10.4	7.7	3.3	1.3	1.91	2.46	3.26	3.95	4.61	5.29	6.04	6.91	8.03	9.77	11.38
Sep	4.49	4.11	5.15	1959	29	11.41	1987	1.01	1985	10.0	6.6	2.9	1.2	.89	1.29	1.95	2.56	3.17	3.83	4.57	5.46	6.65	8.55	10.35
Oct	3.30	2.46	4.96	1990	11	13.90	1990	.00	2000	7.0	4.6	2.0	1.0	.16	.45	.94	1.42	1.94	2.52	3.21	4.06	5.22	7.15	9.04
Nov	2.38	1.94	3.22	1985	22	6.48	1985	.60	1988	7.5	4.6	1.7	.6	.57	.79	1.14	1.45	1.76	2.08	2.45	2.88	3.45	4.34	5.19
Dec	3.75	3.53	4.56	1985	13	7.16	1994	.48	1984	8.7	5.8	2.4	1.2	1.01	1.37	1.91	2.38	2.85	3.34	3.88	4.53	5.37	6.68	7.91
Ann	49.31	49.94	5.15	Sep 1959	29	16.92	Jun 1973	.00	Oct 2000	111.2	77.3	31.5	13.2	38.87	40.97	43.62	45.61	47.34	49.01	50.71	52.58	54.82	58.04	60.78

+ 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: 1957-2001

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

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Station: HOLLY HILL, SC

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Climate Division: SC 6

NWS Call Sign:

Elevation: 100 Feet

Lat: 33°20N

Lon: 80°25W

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	2.6	2000	24	2.8	2000	#	1983	21	#	1983	.2	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	0	0	1.9	1973	10	1.9	1973	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.0	0	0	.0	0	2	1980	2	#	1980	.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	.1	.0	0	0	1.0	1980	27	1.0	1980	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	.5	.0	N/A	N/A	2.6	Jan 2000	24	2.8	Jan 2000	2	Mar 1980	2	#+	Jan 1983	.4	.3	.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

Complete documentation available from:

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NWS Call Sign:

Elevation: 100 Feet

Lat: 33°20N

Lon: 80°25W

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	4/18	4/12	4/08	4/04	4/01	3/28	3/24	3/20	3/14
32	4/10	4/03	3/29	3/25	3/21	3/17	3/13	3/08	3/01
28	3/27	3/18	3/12	3/06	3/01	2/24	2/18	2/12	2/02
24	3/07	2/27	2/21	2/16	2/12	2/07	2/02	1/28	1/20
20	2/28	2/19	2/12	2/06	2/01	1/26	1/18	1/04	0/00
16	2/13	2/02	1/23	1/11	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	10/18	10/24	10/29	11/02	11/05	11/09	11/13	11/18	11/24
32	11/01	11/05	11/09	11/12	11/15	11/18	11/21	11/24	11/29
28	11/10	11/17	11/23	11/27	12/01	12/05	12/10	12/15	12/22
24	11/24	12/03	12/10	12/16	12/21	12/27	1/01	1/08	1/17
20	12/09	12/20	12/29	1/05	1/13	1/21	1/31	2/18	0/00
16	12/26	1/09	1/20	2/02	2/23	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	245	235	229	223	218	213	207	201	192
32	263	254	248	243	238	233	228	222	213
28	308	297	288	281	274	268	261	252	241
24	351	333	324	316	309	303	296	288	277
20	>365	>365	>365	>365	346	331	322	314	304
16	>365	>365	>365	>365	>365	>365	>365	>365	336

* 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	569	431	276	85	10	0	0	0	1	80	268	496	2216
60	429	302	160	26	1	0	0	0	0	30	158	358	1464
57	352	230	107	10	0	0	0	0	0	14	107	284	1104
55	305	188	78	5	0	0	0	0	0	8	80	240	904
50	207	105	28	0	0	0	0	0	0	1	31	151	523
32	19	1	0	0	0	0	0	0	0	0	0	8	28

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	484	496	764	966	1231	1379	1535	1497	1314	1059	742	545	12012
55	57	38	129	280	518	689	822	784	624	354	132	64	4491
57	42	25	96	226	456	629	760	722	564	298	99	46	3963
60	26	12	56	152	364	539	667	629	474	221	60	27	3227
65	0	1	17	61	218	389	512	474	325	116	20	10	2143
70	0	0	3	14	102	244	357	319	184	46	4	0	1273

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	276	331	567	748	992	1147	1262	1254	1072	810	533	325	276	607	1174	1922	2914	4061	5323	6577	7649	8459	8992	9317
45	165	217	416	599	837	997	1107	1099	922	655	388	206	165	382	798	1397	2234	3231	4338	5437	6359	7014	7402	7608
50	84	124	278	450	682	847	952	944	772	503	259	120	84	208	486	936	1618	2465	3417	4361	5133	5636	5895	6015
55	35	58	162	308	527	697	797	789	622	353	152	60	35	93	255	563	1090	1787	2584	3373	3995	4348	4500	4560
60	7	23	82	182	373	547	642	634	472	214	69	27	7	30	112	294	667	1214	1856	2490	2962	3176	3245	3272
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	169	215	361	482	668	792	878	868	745	528	333	206	169	384	745	1227	1895	2687	3565	4433	5178	5706	6039	6245

(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