U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: CLARK HILL 1 W, SC **COOP ID: 381726**

Climate Division: SC 5 **NWS Call Sign:** **Elevation: 380 Feet** **Lat: 33˚40N** **Lon: 82˚11W**

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	56.0	30.7	43.4	79+	1975	31	56.5	1974	-2	1985	21	34.2	1977	672	0	.0	.0	21.2	.4	18.4	.1
Feb	61.3	33.3	47.3	84	1989	16	54.4	1976	5+	1996	7	39.4	1978	496	0	.0	.0	22.3	.2	14.1	.0
Mar	69.6	40.2	54.9	90+	1994	28	60.2	1976	12	1996	11	47.5	1996	327	14	.0	.1	29.4	@	7.0	.0
Apr	77.9	47.7	62.8	92+	1995	11	68.3	1981	23	1997	12	57.8	1997	123	57	.0	.9	29.9	.0	1.4	.0
May	85.7	55.9	70.8	98+	2000	26	74.6	1975	32	1997	6	61.8	1997	29	205	.0	6.1	31.0	.0	@	.0
Jun	92.0	63.7	77.9	104	1990	22	83.2	1981	45+	2000	7	73.2	1997	1	386	.9	16.3	30.0	.0	.0	.0
Jul	95.2	67.6	81.4	109	1987	29	85.7	1993	55	1953	8	77.8	1996	0	507	3.8	23.9	31.0	.0	.0	.0
Aug	93.4	66.5	80.0	108	1983	22	83.7	1980	49	1999	31	76.5	1992	0	464	1.9	20.8	31.0	.0	.0	.0
Sep	88.0	60.7	74.4	103	1993	2	77.9	1980	35	1967	30	70.7	1999	5	286	.2	10.6	30.0	.0	.0	.0
Oct	78.3	48.2	63.3	98	1954	7	71.0	1984	25+	2001	28	57.2	1987	141	87	.0	.7	31.0	.0	1.3	.0
Nov	68.4	40.0	54.2	91	1961	3	63.5	1985	17+	1970	25	47.2	1996	340	17	.0	.0	29.1	.0	7.8	.0
Dec	58.7	32.9	45.8	81+	1991	1	55.2	1971	5+	1962	14	38.5	2000	596	0	.0	.0	23.9	.1	15.9	.0
Ann	77.0	49.0	63.0	109	Jul 1987	29	85.7	Jul 1993	-2	Jan 1985	21	34.2	Jan 1977	2730	2023	6.8	79.4	339.8	.7	65.9	.1

+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1952-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

	Means/ Medians(1)		Extremes							Mean Number of Days (3)				Precipitation Probabilities (1)									
										Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution									
Month	Mean	Median	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	4.96	5.00	2.77	1960	30	9.23	1972	.95	1981	11.7	7.6	3.8	1.6	1.98	2.44	3.09	3.62	4.13	4.64	5.20	5.84	6.65	7.90	9.03
Feb	4.10	4.01	3.10	1981	11	7.73	1985	.89	2000	9.3	6.0	3.1	1.3	1.15	1.54	2.13	2.64	3.14	3.67	4.25	4.94	5.83	7.23	8.54
Mar	5.01	4.79	3.90	1996	7	11.77	1980	1.00	1985	10.2	7.3	3.2	1.6	1.61	2.08	2.78	3.38	3.96	4.56	5.22	5.99	6.98	8.51	9.94
Apr	3.10	2.68	3.91	1974	5	7.32	1998	.74	1994	7.7	5.0	1.8	.8	.69	.98	1.44	1.84	2.25	2.69	3.18	3.76	4.53	5.76	6.91
May	3.34	2.91	4.40	1964	3	6.79	1975	.71	2000	8.2	6.0	2.3	.9	1.02	1.34	1.81	2.22	2.61	3.02	3.47	4.00	4.68	5.75	6.74
Jun	3.77	3.59	3.90	2001	13	8.68	1973	.80	1979	8.9	6.4	2.6	1.1	.82	1.17	1.72	2.22	2.72	3.26	3.86	4.58	5.53	7.04	8.47
Jul	4.38	4.11	5.27	1982	15	9.84	1975	.26	1987	10.2	6.9	2.7	1.1	.84	1.24	1.88	2.47	3.08	3.72	4.46	5.34	6.51	8.40	10.19
Aug	4.20	4.02	6.10	1964	30	11.68	1986	.94	1983	9.6	6.5	2.5	1.2	1.04	1.43	2.04	2.59	3.12	3.69	4.32	5.08	6.06	7.62	9.08
Sep	3.44	3.01	7.10	1998	4	9.61	2000	.07	1984	8.4	5.2	2.1	.9	.31	.55	1.01	1.48	2.01	2.60	3.30	4.19	5.41	7.44	9.43
Oct	3.63	2.75	9.40	1990	12	15.09	1990	.17	1974	6.5	4.3	1.8	1.0	.17	.36	.78	1.27	1.82	2.49	3.30	4.36	5.85	8.40	10.96
Nov	3.16	3.00	2.50	1985	22	8.10	1992	.50	1981	8.1	4.9	2.2	.8	.82	1.12	1.58	1.98	2.38	2.80	3.27	3.82	4.54	5.67	6.74
Dec	3.70	3.15	2.82	1976	12	7.84	1981	.83	1988	9.8	6.2	2.4	.9	1.07	1.43	1.96	2.41	2.86	3.33	3.84	4.45	5.24	6.47	7.61
Ann	46.79	46.42	9.40	Oct 1990	12	15.09	Oct 1990	.07	Sep 1984	108.6	72.3	30.5	13.2	36.67	38.70	41.27	43.18	44.87	46.49	48.14	49.95	52.13	55.25	57.92

\+ 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: 1952-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Feb	.9	.0	#	0	8.0	1989	24	8.0	1989	8	1989	24	#	1989	.1	.1	.1	.1	.0	@	@	@	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	.9	.0	N/A	N/A	8.0	Feb 1989	24	8.0	Feb 1989	8	Feb 1989	24	#	Feb 1989	-9.9	-9.9	-9.9	-9.9	-9.9	@	@	@	.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	5/03	4/28	4/23	4/20	4/16	4/13	4/10	4/05	3/31
32	4/18	4/12	4/07	4/03	3/30	3/27	3/23	3/18	3/12
28	4/05	3/29	3/24	3/19	3/15	3/11	3/07	3/01	2/22
24	3/20	3/13	3/07	3/03	2/26	2/22	2/17	2/12	2/04
20	3/08	2/27	2/22	2/17	2/12	2/07	2/02	1/28	1/19
16	2/19	2/08	1/31	1/23	1/15	1/06	12/20	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	10/07	10/12	10/16	10/19	10/22	10/25	10/28	10/31	11/05
32	10/16	10/22	10/26	10/30	11/02	11/06	11/09	11/13	11/19
28	10/29	11/06	11/11	11/15	11/19	11/23	11/28	12/03	12/10
24	11/12	11/20	11/26	12/01	12/06	12/10	12/15	12/21	12/30
20	11/24	12/04	12/11	12/18	12/23	12/29	1/05	1/12	1/22
16	12/16	12/26	1/02	1/09	1/17	1/25	2/10	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	208	201	196	192	188	183	179	174	167
32	241	232	226	221	216	211	206	199	191
28	274	265	258	253	248	243	238	231	223
24	319	306	297	289	282	274	266	257	244
20	356	337	327	319	311	304	297	288	276
16	>365	>365	>365	>365	>365	>365	346	326	311

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	672	496	327	123	29	1	0	0	5	141	340	596	2730
60	530	362	203	50	7	0	0	0	1	70	220	451	1894
57	445	285	144	25	2	0	0	0	0	42	162	367	1472
55	392	237	111	14	0	0	0	0	0	28	128	314	1224
50	273	139	48	2	0	0	0	0	0	9	62	202	735
32	32	3	0	0	0	0	0	0	0	0	0	12	47

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	383	432	710	924	1199	1375	1530	1487	1270	969	666	440	11385
55	30	22	108	248	486	685	817	774	580	283	105	29	4167
57	22	14	79	199	426	625	755	712	520	235	78	19	3684
60	13	6	45	135	338	535	662	619	431	171	47	11	3013
65	0	0	14	57	205	386	507	464	286	87	17	0	2023
70	0	0	3	16	105	244	352	309	157	34	4	0	1224

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	165	237	449	653	928	1110	1259	1217	1010	709	419	213	165	402	851	1504	2432	3542	4801	6018	7028	7737	8156	8369
45	82	140	312	503	773	960	1104	1062	860	554	285	118	82	222	534	1037	1810	2770	3874	4936	5796	6350	6635	6753
50	36	71	194	361	618	810	949	907	710	403	175	63	36	107	301	662	1280	2090	3039	3946	4656	5059	5234	5297
55	14	28	99	232	463	660	794	752	560	261	90	25	14	42	141	373	836	1496	2290	3042	3602	3863	3953	3978
60	0	8	41	126	313	510	639	597	412	148	39	4	0	8	49	175	488	998	1637	2234	2646	2794	2833	2837
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	116	172	301	429	611	741	833	812	674	471	283	146	116	288	589	1018	1629	2370	3203	4015	4689	5160	5443	5589

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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