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: HAWKINSVILLE, GA **COOP ID: 094170**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 272 Feet** **Lat: 32˚17N** **Lon: 83˚28W**

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	86	1950	17	61.1	1974	-2+	1985	22	37.4	1977	571	0	.0	.0	25.1	.2	14.8	.1
Feb	63.1	37.9	50.5	88	1962	22	57.0	1990	11+	1996	5	42.7	1978	407	0	.0	.0	25.1	.2	10.4	.0
Mar	70.7	44.7	57.7	92+	1974	11	64.0	1997	15	1980	3	51.9	1996	251	24	.0	.1	30.3	.0	3.6	.0
Apr	78.0	50.8	64.4	96	1986	28	69.3	1991	28	1982	7	60.0	1993	90	73	.0	1.3	30.0	.0	.2	.0
May	85.0	59.7	72.4	100+	1967	29	76.7	1991	38	1971	4	68.5	1976	12	240	.0	7.7	31.0	.0	.0	.0
Jun	90.9	67.7	79.3	107	1931	29	83.4	1981	45	1984	1	74.2	1997	0	429	1.4	19.6	30.0	.0	.0	.0
Jul	93.4	70.9	82.2	106	1952	24	86.2	1986	55	1967	15	78.7	1994	0	532	2.9	25.0	31.0	.0	.0	.0
Aug	92.1	70.3	81.2	105+	1986	2	85.0	1999	52+	1981	25	77.4	1994	0	503	1.7	23.4	31.0	.0	.0	.0
Sep	87.7	64.9	76.3	104+	1972	17	81.9	1978	35	1967	30	72.8	1994	4	344	.7	13.6	30.0	.0	.0	.0
Oct	79.3	52.8	66.1	102	1954	5	73.5	1984	23	1976	29	59.5	1976	95	128	.0	2.3	31.0	.0	.4	.0
Nov	70.3	44.4	57.4	90	1961	1	65.5	1985	11	1950	25	50.9	1995	263	33	.0	.0	29.6	.0	5.6	.0
Dec	61.4	37.8	49.6	87	1971	19	58.3	1971	5	1962	13	41.3	2000	489	11	.0	.0	26.5	.1	12.3	.0
Ann	77.5	53.1	65.3	107	Jun 1931	29	86.2	Jul 1986	-2+	Jan 1985	22	37.4	Jan 1977	2182	2317	6.7	93.0	350.6	.5	47.3	.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

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

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: HAWKINSVILLE, GA **COOP ID: 094170**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 272 Feet** **Lat: 32˚17N** **Lon: 83˚28W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	5.41	5.30	7.85	1943	19	11.68	1987	1.37	1989
Feb	4.48	4.49	3.70	1939	26	8.64	1979	1.09	1976
Mar	4.58	3.81	4.00	1991	1	11.48	1980	1.21	1997
Apr	3.43	3.25	4.00+	1944	27	7.98	1998	.32	1986
May	3.13	2.37	4.30	1976	15	9.76	1976	.61	1983
Jun	4.07	3.06	4.08	1995	6	13.46	1989	.59	1996
Jul	4.36	4.15	4.26	1936	14	10.85	1991	1.55	1998
Aug	3.55	3.62	3.26	1936	1	7.87	1995	.39	1972
Sep	3.60	3.45	5.30	1956	25	9.46	1998	.16	1984
Oct	2.67	2.38	7.28	1990	11	11.07	1990	.00+	1987
Nov	3.36	3.14	3.37	1985	22	8.15	1992	.36	1991
Dec	3.88	3.31	5.60	1941	24	8.26	1997	1.08	1980
Ann	46.52	45.64	7.85	Jan 1943	19	13.46	Jun 1989	.00+	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	7.7	3.9	1.9
Feb	7.7	6.3	3.3	1.4
Mar	8.1	6.5	3.1	1.4
Apr	6.6	4.8	2.2	1.0
May	6.7	5.1	2.1	1.1
Jun	8.1	6.4	2.6	1.2
Jul	10.6	7.6	3.2	1.1
Aug	8.6	5.9	2.3	1.0
Sep	7.2	5.4	2.2	1.0
Oct	5.0	3.8	1.7	.8
Nov	7.4	5.1	1.9	1.0
Dec	8.4	6.3	2.8	1.2
Ann	94.8	70.9	31.3	14.1

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.88	2.39	3.14	3.76	4.36	4.97	5.65	6.43	7.43	8.98	10.40
Feb	1.45	1.88	2.51	3.04	3.56	4.09	4.67	5.36	6.23	7.60	8.86
Mar	1.35	1.78	2.44	3.00	3.55	4.12	4.75	5.50	6.46	7.96	9.36
Apr	.63	.93	1.44	1.90	2.38	2.89	3.48	4.19	5.13	6.64	8.09
May	.54	.81	1.26	1.69	2.13	2.61	3.15	3.81	4.69	6.12	7.48
Jun	.84	1.22	1.81	2.36	2.91	3.49	4.15	4.95	6.00	7.68	9.27
Jul	1.53	1.94	2.54	3.04	3.52	4.01	4.55	5.18	5.98	7.22	8.36
Aug	.95	1.28	1.80	2.25	2.69	3.15	3.67	4.28	5.08	6.32	7.49
Sep	.37	.63	1.12	1.62	2.17	2.77	3.49	4.39	5.61	7.64	9.63
Oct	.00	.13	.50	.89	1.33	1.85	2.48	3.26	4.37	6.25	8.12
Nov	.60	.90	1.39	1.85	2.31	2.82	3.40	4.10	5.03	6.53	7.96
Dec	1.19	1.55	2.10	2.58	3.04	3.51	4.03	4.65	5.44	6.68	7.83
Ann	35.66	37.82	40.56	42.61	44.42	46.16	47.94	49.89	52.25	55.64	58.54

\+ 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

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

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: HAWKINSVILLE, GA **COOP ID: 094170**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 272 Feet** **Lat: 32°17N** **Lon: 83°28W**

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	.1	.0	#	0	1.6	1988	7	1.6	1988	#	1976	17	#	1976	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.6	.0	0	0	14.0	1973	10	14.0	1973	0	0	0	0	0	@	@	@	@	@	.0	.0	.0	.0
Mar	.1	.0	0	0	1.5	1980	3	1.5	1980	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	.5	1980	27	.5	1980	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	.0	N/A	N/A	14.0	Feb 1973	10	14.0	Feb 1973	#	Jan 1976	17	#	Jan 1976	.1	.1	@	@	@	.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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: HAWKINSVILLE, GA **COOP ID: 094170**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 272 Feet** **Lat: 32˚17N** **Lon: 83˚28W**

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	4/20	4/14	4/09	4/05	4/02	3/29	3/25	3/21	3/15
32	4/04	3/29	3/24	3/21	3/17	3/13	3/09	3/05	2/27
28	3/19	3/12	3/07	3/03	2/27	2/23	2/18	2/13	2/06
24	3/08	2/27	2/21	2/16	2/11	2/06	1/31	1/25	1/14
20	3/03	2/21	2/14	2/08	2/01	1/25	1/15	0/00	0/00
16	2/13	2/03	1/26	1/17	1/06	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	10/11	10/17	10/21	10/25	10/28	11/01	11/05	11/09	11/15
32	10/26	11/01	11/06	11/09	11/13	11/17	11/21	11/25	12/01
28	10/31	11/09	11/16	11/22	11/27	12/02	12/08	12/15	12/24
24	11/17	11/29	12/07	12/15	12/22	12/29	1/06	1/15	1/29
20	12/07	12/19	12/28	1/05	1/14	1/23	2/04	0/00	0/00
16	12/24	1/04	1/14	1/24	2/09	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	235	226	220	214	209	204	198	191	182
32	267	258	251	246	240	235	230	223	214
28	309	296	287	280	273	265	258	249	236
24	>365	341	326	316	308	300	292	283	270
20	>365	>365	>365	>365	358	335	322	309	295
16	>365	>365	>365	>365	>365	>365	>365	346	329

***** 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: HAWKINSVILLE, GA **COOP ID: 094170**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 272 Feet** **Lat: 32˚17N** **Lon: 83˚28W**

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	571	407	251	90	12	0	0	0	4	95	263	489	2182
60	431	277	143	31	1	0	0	0	0	40	161	351	1435
57	355	206	93	13	0	0	0	0	0	21	113	278	1079
55	308	164	66	7	0	0	0	0	0	13	86	235	879
50	211	84	22	1	0	0	0	0	0	3	36	146	503
32	20	0	0	0	0	0	0	0	0	0	0	7	27

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	485	518	797	972	1251	1419	1555	1526	1330	1056	760	552	12221
55	59	37	150	289	538	729	842	813	640	355	156	67	4675
57	44	23	115	236	476	669	780	751	580	301	123	47	4145
60	27	10	71	163	384	579	687	658	490	228	81	28	3406
65	0	0	24	73	240	429	532	503	344	128	33	11	2317
70	0	0	6	21	123	282	377	348	210	58	11	0	1436

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	249	317	549	727	999	1166	1293	1263	1075	795	509	308	249	566	1115	1842	2841	4007	5300	6563	7638	8433	8942	9250
45	148	205	398	579	844	1016	1138	1108	925	640	365	191	148	353	751	1330	2174	3190	4328	5436	6361	7001	7366	7557
50	74	119	263	431	689	866	983	953	775	485	244	103	74	193	456	887	1576	2442	3425	4378	5153	5638	5882	5985
55	30	56	150	291	536	716	828	798	625	338	141	56	30	86	236	527	1063	1779	2607	3405	4030	4368	4509	4565
60	11	22	71	168	382	566	673	643	476	205	68	23	11	33	104	272	654	1220	1893	2536	3012	3217	3285	3308
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	164	215	354	475	667	787	864	857	724	526	341	202	164	379	733	1208	1875	2662	3526	4383	5107	5633	5974	6176

(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.
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