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: HOMERVILLE 5 N, GA **COOP ID: 094429**

Climate Division: GA 8 **NWS Call Sign:** **Elevation: 187 Feet** **Lat: 31˚05N** **Lon: 82˚48W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	61.9	34.6	48.3	85	1957	31	61.7	1974	3	1985	21	39.0	1977	532	0	.0	.0	28.0	@	10.9	.0
Feb	65.7	37.3	51.5	88	1957	10	59.5	1990	14+	1996	6	42.7	1978	384	6	.0	.0	26.7	.1	6.8	.0
Mar	72.3	43.4	57.9	89	1974	10	64.9	1997	19	1980	3	53.0	1971	244	23	.0	.0	30.6	.0	2.9	.0
Apr	79.0	49.2	64.1	94+	1986	28	69.2	1991	29+	2000	11	59.4	1993	84	56	.0	1.3	30.0	.0	.2	.0
May	85.4	57.1	71.3	98+	1962	28	76.2	1991	38	1992	8	68.2	1988	10	205	.0	7.1	31.0	.0	.0	.0
Jun	90.5	64.1	77.3	104+	1998	24	81.1	1998	45	1984	1	74.0	1972	0	367	.7	19.3	30.0	.0	.0	.0
Jul	92.9	66.7	79.8	103+	2000	21	82.1	1995	54	1967	16	77.4	1984	0	459	.9	25.8	31.0	.0	.0	.0
Aug	91.8	66.2	79.0	103	1957	13	81.8	1990	57+	1997	26	77.1	1994	0	434	.2	23.2	31.0	.0	.0	.0
Sep	87.9	62.8	75.4	99+	1990	9	77.6	1977	40+	1967	30	72.8	1994	1	311	.0	12.2	30.0	.0	.0	.0
Oct	79.6	51.3	65.5	94	1959	2	71.4	1985	27	1999	25	58.6	1987	94	108	.0	.9	31.0	.0	.2	.0
Nov	71.6	42.9	57.3	89	1956	14	64.6	1985	17	1970	25	49.6	1976	257	24	.0	.0	29.8	.0	4.0	.0
Dec	64.1	36.5	50.3	86	1966	9	58.0	1971	7	1962	13	43.4	1989	463	6	.0	.0	28.5	@	9.5	.0
Ann	78.6	51.0	64.8	104+	Jun 1998	24	82.1	Jul 1995	3	Jan 1985	21	39.0	Jan 1977	2069	1999	1.8	89.8	357.6	.1	34.5	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1956-2001

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

Issue Date: February 2004

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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	5.30	4.86	6.33	1992	14	15.41	1991	.90	1989
Feb	3.99	3.35	3.94	1988	19	8.03	1986	1.02	1976
Mar	4.82	4.19	6.18	1984	6	14.45	1984	.78	1979
Apr	3.61	2.91	4.58	1973	26	14.27	1973	.36	1987
May	3.20	2.43	4.18	1976	15	10.88	1976	.20	1993
Jun	5.48	5.11	3.85	2001	12	10.82	1989	1.35	1977
Jul	6.58	6.93	4.40	1981	30	13.80	1971	1.37	1976
Aug	6.14	5.99	4.97	1961	9	10.17	1981	3.28	1993
Sep	4.27	3.42	3.92	1964	12	12.05	1988	.05	1972
Oct	2.82	1.88	7.40	1997	27	10.98	1997	.00	1987
Nov	2.92	2.24	4.90	1992	22	9.33	1992	.30	1991
Dec	3.71	3.49	4.12	1964	4	8.68	1977	.14	1984
Ann	52.84	50.95	7.40	Oct 1997	27	15.41	Jan 1991	.00	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	7.4	3.5	1.7
Feb	8.6	5.9	2.9	1.2
Mar	9.3	6.4	3.2	1.3
Apr	6.2	4.3	2.3	1.3
May	8.1	5.3	2.1	.9
Jun	12.0	8.7	3.5	1.6
Jul	14.1	10.1	4.3	1.9
Aug	12.7	8.7	3.9	2.0
Sep	9.7	6.1	2.8	1.3
Oct	6.1	3.6	1.6	.8
Nov	7.4	4.4	2.1	.9
Dec	8.8	5.4	2.3	1.1
Ann	113.7	76.3	34.5	16.0

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	1.38	1.88	2.65	3.33	3.99	4.69	5.47	6.40	7.60	9.50	11.27
Feb	1.27	1.65	2.21	2.69	3.15	3.63	4.16	4.78	5.57	6.81	7.96
Mar	1.57	2.03	2.70	3.28	3.83	4.40	5.02	5.75	6.69	8.15	9.49
Apr	.55	.86	1.38	1.88	2.40	2.96	3.61	4.41	5.48	7.22	8.88
May	.39	.65	1.10	1.55	2.02	2.54	3.16	3.91	4.94	6.62	8.26
Jun	1.78	2.30	3.06	3.72	4.35	5.00	5.71	6.55	7.62	9.29	10.83
Jul	2.36	2.98	3.88	4.63	5.34	6.08	6.88	7.81	9.00	10.83	12.51
Aug	3.34	3.83	4.48	5.00	5.47	5.93	6.43	6.98	7.67	8.70	9.62
Sep	.45	.76	1.35	1.95	2.59	3.31	4.15	5.21	6.65	9.04	11.37
Oct	.06	.24	.60	1.00	1.45	1.97	2.61	3.42	4.56	6.50	8.43
Nov	.50	.75	1.18	1.58	1.99	2.44	2.95	3.57	4.39	5.73	7.01
Dec	.53	.84	1.38	1.89	2.43	3.02	3.69	4.53	5.65	7.48	9.24
Ann	39.91	42.47	45.72	48.16	50.32	52.39	54.52	56.86	59.68	63.75	67.24

\+ 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: 1956-2001
(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	.1	2000	28	.1	2000	#	1976	17	#	1976	@	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1988	6	#	1988	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	#	0	#	1996	11	#	1996	#	1996	11	#	1996	.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	1.0	1989	23	2.0	1989	2	1989	24	#	1989	.1	.1	.0	.0	.0	.1	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.0	Dec 1989	23	2.0	Dec 1989	2	Dec 1989	24	#+	Mar 1996	.1	.1	.0	.0	.0	.1	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/20	4/13	4/09	4/05	4/01	3/28	3/24	3/19	3/12
32	4/02	3/27	3/22	3/18	3/15	3/11	3/07	3/02	2/24
28	3/13	3/06	3/01	2/25	2/21	2/17	2/13	2/08	2/01
24	3/05	2/23	2/16	2/09	2/03	1/28	1/21	1/11	0/00
20	2/14	2/05	1/29	1/22	1/14	1/03	0/00	0/00	0/00
16	1/27	1/15	12/29	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	10/17	10/22	10/26	10/30	11/02	11/05	11/08	11/12	11/17
32	10/30	11/04	11/08	11/11	11/14	11/17	11/20	11/24	11/29
28	11/07	11/15	11/21	11/26	12/01	12/06	12/11	12/17	12/26
24	11/27	12/07	12/14	12/20	12/26	1/02	1/09	1/19	0/00
20	12/17	12/30	1/09	1/19	1/30	2/14	0/00	0/00	0/00
16	1/06	1/20	2/07	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	240	231	225	219	214	209	204	197	189
32	268	260	254	249	244	239	234	227	219
28	314	303	295	289	282	276	269	261	251
24	>365	>365	354	333	322	313	304	294	282
20	>365	>365	>365	>365	>365	>365	>365	329	318
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	532	384	244	84	10	0	0	0	1	94	257	463	2069
60	402	257	137	25	1	0	0	0	0	39	151	320	1332
57	330	191	88	9	0	0	0	0	0	20	101	244	983
55	286	154	62	4	0	0	0	0	0	12	74	201	793
50	197	81	20	0	0	0	0	0	0	3	27	113	441
32	19	1	0	0	0	0	0	0	0	0	0	2	22

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	523	547	802	963	1218	1357	1482	1457	1300	1037	757	569	12012
55	78	56	151	277	505	667	769	744	610	336	141	54	4388
57	59	37	115	221	443	607	707	682	550	281	108	36	3846
60	38	19	70	147	350	517	614	589	460	208	68	19	3099
65	0	6	23	56	205	367	459	434	311	108	24	6	1999
70	0	0	5	12	91	220	304	279	168	42	6	0	1127

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	349	405	621	770	1014	1155	1267	1248	1099	845	580	399	349	754	1375	2145	3159	4314	5581	6829	7928	8773	9353	9752
45	229	277	470	620	859	1005	1112	1093	949	690	431	270	229	506	976	1596	2455	3460	4572	5665	6614	7304	7735	8005
50	135	171	326	470	704	855	957	938	799	535	299	170	135	306	632	1102	1806	2661	3618	4556	5355	5890	6189	6359
55	70	88	200	323	549	705	802	783	649	384	190	94	70	158	358	681	1230	1935	2737	3520	4169	4553	4743	4837
60	31	37	101	195	396	555	647	628	499	247	100	42	31	68	169	364	760	1315	1962	2590	3089	3336	3436	3478
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	226	266	403	505	680	777	855	846	756	565	379	258	226	492	895	1400	2080	2857	3712	4558	5314	5879	6258	6516

(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