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: THOMASTON 2 S, GA **COOP ID: 098661**

Climate Division: GA 4 **NWS Call Sign:** **Elevation: 672 Feet** **Lat: 32˚52N** **Lon: 84˚19W**

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	56.5	30.9	43.7	80	1975	29	53.5	1974	-5	1985	21	32.7	1977	660	0	.0	.0	25.2	.2	14.7	@
Feb	61.3	33.1	47.2	85	1981	26	53.6	1990	5	1996	5	39.0	1978	500	0	.0	.0	25.2	.2	11.3	.0
Mar	68.7	39.7	54.2	91+	1982	18	61.4	1997	11	1960	6	47.6	1971	343	9	.0	.1	30.3	.0	5.1	.0
Apr	75.4	46.8	61.1	95	1980	23	66.4	1999	25	1987	1	56.7	1983	144	28	.0	1.1	30.0	.0	.9	.0
May	81.5	55.9	68.7	99	1967	28	74.9	2000	35	1971	4	63.7	1976	42	157	.0	4.6	31.0	.0	.0	.0
Jun	87.6	63.4	75.5	109	1978	29	80.0	2000	41	1956	3	71.6	1976	2	318	.7	14.9	30.0	.0	.0	.0
Jul	89.7	67.5	78.6	107	1980	14	82.8+	2000	52	1967	16	74.4	1971	0	421	2.1	19.9	31.0	.0	.0	.0
Aug	88.8	67.2	78.0	107	1983	20	83.6	1999	52	1964	14	75.8+	1994	0	403	1.3	18.4	31.0	.0	.0	.0
Sep	84.4	62.0	73.2	102	1980	7	76.4	1980	33	1967	30	70.0	1974	4	250	.2	9.7	30.0	.0	.0	.0
Oct	76.4	49.8	63.1	95+	1981	6	68.5	1984	26	1976	29	57.1	1976	125	66	.0	.6	31.0	.0	.3	.0
Nov	67.8	40.7	54.3	89	1961	2	61.8	1985	11	1955	29	45.5	1976	335	13	.0	.0	29.5	.0	5.6	.0
Dec	58.5	33.1	45.8	82	1971	16	52.7	1971	2	1962	13	38.9	1989	596	0	.0	.0	26.4	.1	12.0	.0
Ann	74.7	49.2	62.0	109	Jun 1978	29	83.6	Aug 1999	-5	Jan 1985	21	32.7	Jan 1977	2751	1665	4.3	69.3	350.6	.5	49.9	@

\+ 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: 1955-2001

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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	5.01	4.89	4.24	1978	25	9.42	1991	.72	1981
Feb	4.80	4.92	3.05	1975	17	9.17	1979	.59	2000
Mar	6.06	6.03	5.80	1990	17	13.81	1971	.94	1997
Apr	3.85	2.94	4.13	1969	18	10.79	1982	.39	1987
May	3.44	3.51	3.91	1969	15	7.24	1976	.32	2000
Jun	3.36	2.84	3.63	1972	20	8.63	1987	.92	1984
Jul	5.47	5.28	6.36	1994	5	21.71	1994	.60	1980
Aug	4.00	4.28	4.30	1983	2	6.29	1988	1.11	1991
Sep	3.25	3.41	3.90	1956	25	6.27	1997	.14	1984
Oct	2.51	2.09	3.59	1989	1	6.58	1985	.00	1991
Nov	3.72	3.28	3.02	1955	25	10.77	1992	.85	1991
Dec	4.25	3.99	3.89	1970	16	9.49	1997	1.42	1979
Ann	49.72	49.00	6.36	Jul 1994	5	21.71	Jul 1994	.00	Oct 1991

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.3	8.1	3.7	1.4
Feb	8.3	6.4	3.5	1.5
Mar	8.9	7.0	3.8	1.9
Apr	6.9	5.2	2.4	1.2
May	7.4	5.2	2.3	1.0
Jun	8.9	6.0	2.4	.9
Jul	10.2	7.4	3.5	1.5
Aug	8.8	6.2	2.5	1.2
Sep	7.4	5.4	1.9	1.0
Oct	5.0	3.9	1.9	.8
Nov	7.2	5.0	2.7	1.4
Dec	8.7	5.7	3.1	1.3
Ann	99.0	71.5	33.7	15.1

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	1.83	2.30	2.97	3.54	4.08	4.63	5.24	5.93	6.83	8.20	9.46
Feb	1.39	1.85	2.53	3.13	3.71	4.31	4.98	5.77	6.79	8.39	9.87
Mar	1.63	2.20	3.08	3.84	4.60	5.39	6.27	7.31	8.67	10.79	12.78
Apr	.49	.80	1.34	1.88	2.44	3.07	3.80	4.70	5.92	7.92	9.85
May	.89	1.22	1.71	2.15	2.59	3.04	3.55	4.15	4.93	6.17	7.32
Jun	.86	1.18	1.67	2.10	2.52	2.97	3.47	4.07	4.84	6.06	7.20
Jul	1.20	1.71	2.51	3.24	3.96	4.73	5.60	6.64	8.01	10.20	12.26
Aug	1.76	2.12	2.62	3.02	3.40	3.79	4.20	4.67	5.26	6.17	6.98
Sep	.69	.99	1.47	1.90	2.34	2.80	3.32	3.95	4.77	6.09	7.34
Oct	.14	.38	.76	1.13	1.52	1.96	2.46	3.09	3.94	5.34	6.71
Nov	1.14	1.50	2.02	2.47	2.91	3.37	3.87	4.45	5.21	6.39	7.49
Dec	1.41	1.81	2.41	2.91	3.39	3.89	4.44	5.07	5.89	7.16	8.34
Ann	36.89	39.41	42.62	45.05	47.19	49.25	51.37	53.71	56.53	60.61	64.11

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.2	.0	#	0
Feb	.9	.0	0	0
Mar	.1	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	1.2	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	2.5	1977	18	2.5	1977	2	1988	7	#	1988
Feb	12.5	1973	10	19.3	1973	0	0	0	0	0
Mar	2.0	1993	13	2.0	1993	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	12.5	Feb 1973	10	19.3	Feb 1973	2	Jan 1988	7	#	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.2	.0	.0	.0
Feb	.1	.1	.1	.1	.1
Mar	.1	.1	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.4	.4	.1	.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	@	.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

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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	4/24	4/20	4/17	4/14	4/12	4/10	4/07	4/04	3/31
32	4/13	4/08	4/04	4/01	3/30	3/27	3/24	3/20	3/15
28	3/26	3/21	3/17	3/13	3/10	3/07	3/03	2/27	2/22
24	3/12	3/04	2/27	2/22	2/18	2/13	2/09	2/03	1/26
20	3/02	2/21	2/15	2/10	2/05	2/01	1/26	1/20	1/10
16	2/25	2/15	2/07	1/31	1/23	1/14	12/29	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	10/13	10/17	10/21	10/23	10/26	10/29	11/01	11/04	11/09
32	10/24	10/29	11/02	11/05	11/08	11/12	11/15	11/19	11/24
28	11/07	11/12	11/16	11/20	11/23	11/26	11/29	12/03	12/09
24	11/21	11/30	12/05	12/11	12/15	12/20	12/25	12/31	1/08
20	12/03	12/13	12/20	12/25	12/31	1/06	1/12	1/19	1/31
16	12/15	12/27	1/06	1/14	1/23	2/03	2/22	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	210	206	202	199	197	194	191	188	183
32	244	237	232	227	223	219	215	209	202
28	279	271	266	261	257	253	248	243	236
24	332	321	313	306	300	294	287	279	268
20	>365	354	337	329	322	315	309	301	291
16	>365	>365	>365	>365	>365	>365	341	323	307

***** 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	660	500	343	144	42	2	0	0	4	125	335	596	2751
60	517	365	213	58	10	0	0	0	0	55	213	451	1882
57	433	288	150	27	3	0	0	0	0	29	154	367	1451
55	380	240	115	15	1	0	0	0	0	18	120	314	1203
50	262	140	49	2	0	0	0	0	0	4	56	202	715
32	28	3	0	0	0	0	0	0	0	0	0	12	43

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	392	427	689	874	1138	1306	1444	1426	1237	964	669	439	11005
55	30	20	91	199	426	616	731	713	547	268	99	28	3768
57	22	12	64	151	366	556	669	651	487	218	72	19	3287
60	13	6	33	92	280	466	576	558	397	151	41	10	2623
65	0	0	9	28	157	318	421	403	250	66	13	0	1665
70	0	0	0	4	71	182	272	252	122	19	2	0	924

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	241	309	529	699	955	1120	1252	1226	1046	783	498	294	241	550	1079	1778	2733	3853	5105	6331	7377	8160	8658	8952
45	136	194	377	549	800	970	1097	1071	896	628	352	174	136	330	707	1256	2056	3026	4123	5194	6090	6718	7070	7244
50	67	104	239	404	645	820	942	916	746	473	225	95	67	171	410	814	1459	2279	3221	4137	4883	5356	5581	5676
55	28	51	131	263	490	670	787	761	597	321	126	44	28	79	210	473	963	1633	2420	3181	3778	4099	4225	4269
60	1	13	61	143	337	520	632	606	447	193	56	21	1	14	75	218	555	1075	1707	2313	2760	2953	3009	3030
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	158	218	353	461	638	758	852	841	709	509	325	193	158	376	729	1190	1828	2586	3438	4279	4988	5497	5822	6015

(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