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: THOMASVILLE 3 NE, GA **COOP ID: 098666**

Climate Division: GA 7 **NWS Call Sign:** **Elevation: 260 Feet** **Lat: 30˚53N** **Lon: 83˚56W**

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	63.2	40.4	51.8	86	1972	10	65.8	1974	5	1985	21	42.0	1977	432	7	.0	.0	28.5	@	7.9	.0
Feb	67.0	42.9	55.0	86	1957	5	60.7	1990	11	1958	18	45.3	1978	292	10	.0	.0	27.2	.1	5.2	.0
Mar	73.2	48.4	60.8	96	1905	1	67.5	1997	19	1980	3	55.3	1971	176	45	.0	@	30.8	.0	1.5	.0
Apr	79.1	53.3	66.2	96	1912	13	71.2	1999	30	1950	7	62.3	1993	54	91	.0	1.2	30.0	.0	@	.0
May	85.4	61.8	73.6	102	1953	27	78.2	1998	41	1908	1	69.8	1976	4	270	.0	7.2	31.0	.0	.0	.0
Jun	89.6	67.9	78.8	104+	1950	27	83.3	1998	48	2001	14	74.9	1972	0	413	.9	19.8	30.0	.0	.0	.0
Jul	91.5	71.2	81.4	106	1901	12	85.2	1986	56	1972	9	76.7	1974	0	506	1.0	25.2	31.0	.0	.0	.0
Aug	90.9	70.3	80.6	104	1954	12	83.7	1999	53	2001	15	78.2	1973	0	484	.2	23.2	31.0	.0	.0	.0
Sep	87.8	66.3	77.1	106	1925	5	80.2	1986	37	1967	30	74.5	1983	0	360	.0	15.0	30.0	.0	.0	.0
Oct	80.9	56.0	68.5	97+	1954	4	73.6	1985	26	1952	30	64.0	1987	45	152	.0	2.1	31.0	.0	.0	.0
Nov	74.0	48.1	61.1	89	1971	2	69.0	1986	11	1970	25	52.2	1976	180	61	.0	.0	30.0	.0	2.0	.0
Dec	65.8	41.7	53.8	85	1982	2	62.3	1971	8	1962	13	45.8	1989	368	20	.0	.0	29.4	.0	6.9	.0
Ann	79.0	55.7	67.4	106+	Sep 1925	5	85.2	Jul 1986	5	Jan 1985	21	42.0	Jan 1977	1551	2419	2.1	93.7	359.9	.1	23.5	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1892-2001

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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	5.58	5.13	5.40	1942	2	20.23	1991	.25	1989
Feb	4.60	4.55	4.68	1926	18	7.75+	1988	1.20	2000
Mar	5.48	5.11	6.55	1984	6	10.83	1984	1.06	1979
Apr	3.41	2.83	5.60	1962	1	11.57	1973	.38	1987
May	3.64	2.80	4.12	1942	22	15.84	1976	.43	2000
Jun	5.65	5.45	5.00	1893	15	11.63	1983	1.87	1996
Jul	6.02	5.44	4.80	1944	5	13.25	1984	1.52	1992
Aug	5.25	4.89	4.85	1936	1	12.64	1994	1.34	1980
Sep	4.50	3.61	8.73	1924	15	20.45	1998	.27	1984
Oct	3.01	2.48	5.74	1997	27	11.40	1994	.00	1987
Nov	3.34	3.01	3.23	1910	18	8.31	1997	.44	1991
Dec	3.59	3.65	8.99	1964	4	8.05	1975	.42	1984
Ann	54.07	53.07	8.99	Dec 1964	4	20.45	Sep 1998	.00	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.3	6.3	3.5	1.8
Feb	6.4	5.3	3.1	1.6
Mar	6.9	5.8	3.6	1.9
Apr	4.7	4.0	2.1	1.2
May	6.2	5.2	2.4	.9
Jun	8.9	7.4	3.4	1.3
Jul	9.9	8.0	3.9	1.9
Aug	8.0	6.8	3.3	1.6
Sep	6.4	5.3	2.7	1.3
Oct	4.4	3.5	1.8	.8
Nov	5.5	4.3	2.0	1.0
Dec	5.9	4.6	2.4	1.0
Ann	80.5	66.5	34.2	16.3

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	1.36	1.89	2.70	3.42	4.14	4.90	5.75	6.75	8.07	10.16	12.12
Feb	1.58	2.01	2.65	3.18	3.70	4.22	4.80	5.47	6.33	7.66	8.89
Mar	1.70	2.22	2.99	3.66	4.30	4.97	5.70	6.56	7.67	9.40	11.00
Apr	.43	.70	1.19	1.66	2.16	2.72	3.36	4.16	5.24	7.01	8.73
May	.62	.94	1.47	1.96	2.48	3.03	3.67	4.44	5.47	7.13	8.72
Jun	2.07	2.60	3.36	4.00	4.61	5.23	5.91	6.69	7.70	9.24	10.66
Jul	2.21	2.78	3.59	4.27	4.91	5.57	6.29	7.12	8.19	9.83	11.33
Aug	1.92	2.41	3.12	3.71	4.28	4.86	5.49	6.22	7.15	8.59	9.91
Sep	.62	.99	1.63	2.26	2.92	3.64	4.48	5.50	6.89	9.15	11.34
Oct	.18	.47	.94	1.39	1.85	2.37	2.97	3.72	4.72	6.38	7.99
Nov	.65	.96	1.45	1.90	2.35	2.84	3.40	4.07	4.95	6.37	7.72
Dec	1.05	1.39	1.90	2.35	2.78	3.23	3.72	4.31	5.07	6.25	7.35
Ann	37.43	40.61	44.71	47.84	50.62	53.32	56.11	59.20	62.96	68.43	73.17

\+ 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: 1892-2001
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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	#	.0	0	0
Feb	#	.0	0	0
Mar	#	.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	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	#	1984	20	#+	1984	0	0	0	0	0
Feb	#	1978	9	#+	1978	0	0	0	0	0
Mar	#	1980	2	#+	1980	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	#+	Jan 1984	20	#+	Jan 1984	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.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	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.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	.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	4/10	4/04	3/30	3/27	3/23	3/20	3/16	3/12	3/06
32	3/22	3/15	3/11	3/06	3/03	2/27	2/23	2/18	2/11
28	3/09	3/01	2/24	2/19	2/15	2/11	2/06	2/01	1/24
24	2/24	2/15	2/08	2/02	1/27	1/21	1/14	1/02	0/00
20	2/13	2/03	1/27	1/20	1/13	1/03	0/00	0/00	0/00
16	1/21	1/09	0/00	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	10/27	11/02	11/06	11/09	11/13	11/16	11/19	11/24	11/29
32	11/03	11/10	11/16	11/20	11/24	11/28	12/03	12/08	12/16
28	11/18	11/27	12/04	12/09	12/14	12/19	12/25	12/31	1/09
24	12/08	12/17	12/23	12/29	1/03	1/09	1/16	1/26	0/00
20	12/21	12/31	1/08	1/15	1/23	2/02	0/00	0/00	0/00
16	1/02	1/19	0/00	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	257	249	243	238	234	229	224	218	210
32	292	283	277	271	266	261	255	249	240
28	332	320	312	306	300	294	288	281	271
24	>365	>365	>365	355	341	330	320	309	295
20	>365	>365	>365	>365	>365	>365	365	346	331
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	432	292	176	54	4	0	0	0	0	45	180	368	1551
60	313	178	88	13	0	0	0	0	0	13	98	245	948
57	251	125	50	4	0	0	0	0	0	5	61	186	682
55	215	95	32	2	0	0	0	0	0	3	42	152	541
50	136	39	9	0	0	0	0	0	0	0	15	80	279
32	9	0	0	0	0	0	0	0	0	0	0	1	10

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	623	642	892	1027	1289	1403	1529	1507	1350	1130	871	675	12938
55	116	93	212	339	576	713	816	794	660	420	223	113	5075
57	90	67	168	281	514	653	754	732	600	360	182	85	4486
60	59	36	113	200	421	563	661	639	510	275	129	51	3657
65	7	10	45	91	270	413	506	484	360	152	61	20	2419
70	6	1	13	26	140	265	351	329	213	63	22	7	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	386	451	671	810	1063	1193	1302	1277	1137	899	630	439	386	837	1508	2318	3381	4574	5876	7153	8290	9189	9819	10258
45	255	323	518	660	908	1043	1147	1122	987	744	481	299	255	578	1096	1756	2664	3707	4854	5976	6963	7707	8188	8487
50	150	203	369	511	753	893	992	967	837	589	339	186	150	353	722	1233	1986	2879	3871	4838	5675	6264	6603	6789
55	76	109	236	365	598	743	837	812	687	436	216	104	76	185	421	786	1384	2127	2964	3776	4463	4899	5115	5219
60	32	51	124	228	443	593	682	657	537	288	120	46	32	83	207	435	878	1471	2153	2810	3347	3635	3755	3801
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	240	287	431	534	727	812	891	877	785	599	412	278	240	527	958	1492	2219	3031	3922	4799	5584	6183	6595	6873

(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