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: NAHUNTA 3 E, GA **COOP ID: 096219**

Climate Division: GA 9 **NWS Call Sign:** **Elevation: 78 Feet** **Lat: 31˚13N** **Lon: 81˚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	63.0	38.1	50.6	83+	1974	26	64.4	1974	3	1985	21	40.9	1977	464	3	.0	.0	28.6	.1	9.7	.0
Feb	65.7	39.7	52.7	85+	1989	16	58.2	1990	15+	1996	5	42.9	1978	351	6	.0	.0	27.2	.1	6.5	.0
Mar	71.7	45.2	58.5	90	1963	18	63.7	1997	21	1980	3	53.9	1996	224	21	.0	.0	30.9	.0	2.2	.0
Apr	78.1	51.1	64.6	96	1986	27	68.3	1991	31+	1992	4	60.6	1993	75	63	.0	1.0	30.0	.0	.2	.0
May	84.3	59.5	71.9	98+	1962	28	76.1	1991	38	1989	8	68.7	1997	5	219	.0	5.6	31.0	.0	.0	.0
Jun	88.7	67.2	78.0	101+	1985	4	82.4	1998	40	1984	1	74.8	1972	0	388	.3	14.7	30.0	.0	.0	.0
Jul	91.0	70.4	80.7	104+	2000	21	83.8	1986	56	1963	13	78.5	1984	0	486	.5	22.6	31.0	.0	.0	.0
Aug	89.9	69.9	79.9	102	1999	2	82.8	1999	55	1964	15	77.7	1994	0	462	.3	18.4	31.0	.0	.0	.0
Sep	85.9	66.7	76.3	101	1985	10	78.9	1980	44	1990	25	74.1	1983	0	339	@	8.1	30.0	.0	.0	.0
Oct	79.1	56.5	67.8	96	1986	6	73.2	1985	29	1962	27	61.6	1987	55	141	.0	.8	31.0	.0	@	.0
Nov	71.5	46.9	59.2	89	1986	7	66.8	1985	21+	1959	30	51.9	1976	214	39	.0	.0	30.0	.0	2.8	.0
Dec	64.5	39.9	52.2	85	1973	4	60.4	1971	8	1962	13	42.9	1989	409	13	.0	.0	29.2	.0	7.5	.0
Ann	77.8	54.3	66.0	104+	Jul 2000	21	83.8	Jul 1986	3	Jan 1985	21	40.9	Jan 1977	1797	2180	1.1	71.2	359.9	.2	28.9	.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	4.23	3.78	2.82	1964	8	10.38	1991	.24	1996
Feb	3.87	3.49	3.86	1988	19	10.79	1998	.59	1976
Mar	4.52	3.56	5.16	1991	3	12.11	1991	1.09	1979
Apr	2.79	2.57	3.57	1982	26	7.26	1982	.03	1986
May	3.17	2.26	3.80	1967	22	9.30	1991	.16	2000
Jun	6.19	6.26	4.00	1989	30	11.24	1989	1.72	1980
Jul	6.24	5.97	5.33	1983	23	12.41	1983	2.00	1986
Aug	7.80	7.92	5.10	1992	7	16.21	1992	1.65	1984
Sep	4.51	3.83	4.18	1999	28	11.28	1979	.69	1978
Oct	3.00	2.41	7.27	1997	27	11.01	1994	.00	1987
Nov	2.51	2.30	3.12	1976	28	7.83	1976	.29	1991
Dec	2.97	2.51	2.40	1979	6	6.79	1971	.11	1984
Ann	51.80	51.80	7.27	Oct 1997	27	16.21	Aug 1992	.00	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.8	6.3	2.7	1.3
Feb	6.8	5.1	2.5	1.0
Mar	7.8	6.0	3.0	1.4
Apr	5.3	3.6	1.9	.8
May	7.1	4.8	2.2	1.0
Jun	11.4	8.5	4.0	1.6
Jul	10.6	7.3	3.3	1.8
Aug	11.2	8.8	4.6	2.4
Sep	9.1	6.7	3.0	1.4
Oct	5.6	3.5	1.7	.9
Nov	5.9	4.1	1.8	.6
Dec	6.4	4.5	1.9	.9
Ann	95.0	69.2	32.6	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	.68	1.04	1.66	2.24	2.84	3.50	4.25	5.17	6.39	8.38	10.29
Feb	.90	1.26	1.83	2.34	2.84	3.37	3.97	4.68	5.62	7.11	8.51
Mar	1.20	1.63	2.28	2.86	3.42	4.01	4.67	5.45	6.47	8.06	9.55
Apr	.27	.48	.86	1.24	1.67	2.14	2.70	3.40	4.36	5.96	7.52
May	.40	.65	1.10	1.54	2.01	2.53	3.13	3.88	4.89	6.55	8.16
Jun	2.28	2.86	3.69	4.39	5.05	5.73	6.47	7.33	8.42	10.10	11.64
Jul	2.50	3.08	3.89	4.56	5.20	5.84	6.54	7.34	8.36	9.92	11.34
Aug	2.65	3.39	4.47	5.38	6.25	7.16	8.14	9.29	10.76	13.04	15.14
Sep	.83	1.23	1.90	2.51	3.13	3.80	4.57	5.49	6.72	8.70	10.58
Oct	.08	.28	.67	1.10	1.58	2.14	2.81	3.66	4.85	6.87	8.87
Nov	.30	.49	.84	1.19	1.57	1.98	2.46	3.06	3.87	5.21	6.51
Dec	.41	.65	1.08	1.49	1.92	2.40	2.95	3.62	4.54	6.03	7.46
Ann	39.03	41.56	44.76	47.17	49.30	51.34	53.44	55.75	58.54	62.55	66.00

+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.0	0	0
Feb	#	.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	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	2000	25	.2	2000	0	0	0	0	0
Feb	#	1989	23	#	1989	0	0	0	0	0
Mar	.0	0	0	.0	0	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	.2	Jan 2000	25	.2	Jan 2000	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
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

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	4/17	4/11	4/06	4/03	3/30	3/27	3/23	3/18	3/12
32	4/05	3/29	3/23	3/19	3/15	3/11	3/06	3/01	2/22
28	3/15	3/08	3/03	2/27	2/23	2/19	2/15	2/10	2/04
24	3/02	2/22	2/16	2/10	2/05	1/31	1/25	1/15	0/00
20	2/12	2/02	1/25	1/17	1/06	0/00	0/00	0/00	0/00
16	1/27	1/06	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	10/21	10/26	10/31	11/03	11/06	11/10	11/13	11/17	11/23
32	11/02	11/08	11/13	11/16	11/20	11/23	11/27	12/02	12/08
28	11/14	11/22	11/28	12/03	12/08	12/13	12/18	12/24	1/01
24	11/27	12/08	12/17	12/24	12/31	1/08	1/17	1/31	0/00
20	12/21	1/01	1/10	1/19	2/01	0/00	0/00	0/00	0/00
16	1/12	2/02	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	248	238	232	226	221	215	209	203	193
32	278	268	261	255	249	244	238	230	220
28	318	308	300	293	287	281	274	267	256
24	>365	>365	>365	340	326	316	308	299	287
20	>365	>365	>365	>365	>365	>365	>365	>365	319
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	464	351	224	75	5	0	0	0	0	55	214	409	1797
60	341	226	118	20	0	0	0	0	0	17	121	277	1120
57	275	164	71	7	0	0	0	0	0	8	79	211	815
55	236	130	47	3	0	0	0	0	0	4	56	173	649
50	154	62	13	0	0	0	0	0	0	0	20	96	345
32	12	0	0	0	0	0	0	0	0	0	0	1	13

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	588	580	820	978	1237	1378	1509	1485	1329	1110	815	628	12457
55	100	65	154	292	524	688	796	772	639	401	181	87	4699
57	76	44	116	235	462	628	734	710	579	342	144	62	4132
60	49	22	69	159	369	538	641	617	489	259	96	36	3344
65	3	6	21	63	219	388	486	462	339	141	39	13	2180
70	2	0	4	14	96	240	331	307	192	58	13	1	1258

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	388	433	643	782	1021	1158	1283	1254	1109	877	617	434	388	821	1464	2246	3267	4425	5708	6962	8071	8948	9565	9999
45	257	302	489	632	866	1008	1128	1099	959	722	470	298	257	559	1048	1680	2546	3554	4682	5781	6740	7462	7932	8230
50	151	189	343	482	711	858	973	944	809	567	332	184	151	340	683	1165	1876	2734	3707	4651	5460	6027	6359	6543
55	80	103	214	340	556	708	818	789	659	415	212	102	80	183	397	737	1293	2001	2819	3608	4267	4682	4894	4996
60	35	42	109	206	402	558	663	634	509	269	117	47	35	77	186	392	794	1352	2015	2649	3158	3427	3544	3591
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	247	285	420	517	691	798	886	870	778	588	406	275	247	532	952	1469	2160	2958	3844	4714	5492	6080	6486	6761

(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