

**Climatography
of the United States
No. 20**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: ALLATOONA DAM 2, GA

1971-2000

COOP ID: 090181

Climate Division: GA 1

NWS Call Sign:

Elevation: 975 Feet

Lat: 34° 10N

Lon: 84° 44W

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	49.5	29.7	39.6	77	1975	30	51.3	1974	-6+	1963	25	28.3	1977	787	0	.0	.0	16.0	2.1	20.5	.4
Feb	54.6	31.9	43.3	80	1977	27	50.7	1990	2+	1996	5	34.9	1978	609	0	.0	.0	18.7	.8	16.5	.0
Mar	63.9	39.3	51.6	87+	1995	24	57.5	1997	7	1960	5	45.4	1971	419	4	.0	.0	27.2	.1	7.7	.0
Apr	72.2	46.6	59.4	92+	1970	24	64.6	1981	27	1992	3	54.6	1983	192	24	.0	.1	29.6	.0	1.8	.0
May	78.9	56.0	67.5	95+	1996	25	71.9	1998	35+	1952	15	60.8	1997	62	138	.0	1.1	31.0	.0	.0	.0
Jun	85.7	64.3	75.0	104	1952	29	78.7	1981	43	1956	3	70.6	1997	3	303	.1	7.9	30.0	.0	.0	.0
Jul	89.1	68.1	78.6	104+	1977	9	82.7	1993	52+	1967	16	75.5	1976	0	422	.4	13.9	31.0	.0	.0	.0
Aug	87.9	67.5	77.7	103+	2000	19	80.9	1995	51	1952	27	73.9	1992	0	393	.3	10.4	31.0	.0	.0	.0
Sep	81.6	61.8	71.7	102	1957	2	76.1	1998	34	1967	30	68.9	1974	12	212	.0	3.3	30.0	.0	.0	.0
Oct	71.4	49.7	60.6	97	1954	6	67.5	1984	26	1954	31	54.9	1987	184	46	.0	.0	30.9	.0	.7	.0
Nov	61.8	41.4	51.6	85	1961	3	59.9	1985	12	1970	24	43.7	1976	408	7	.0	.0	27.4	@	8.6	.0
Dec	52.4	33.6	43.0	78+	1998	7	50.8	1984	-2	1962	13	34.7	1989	681	0	.0	.0	19.1	.8	18.0	.1
Ann	70.8	49.2	60.0	104+	Jul 1977	9	82.7	Jul 1993	-6+	Jan 1963	25	28.3	Jan 1977	3357	1549	.8	36.7	321.9	3.8	73.8	.5

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1952-2001

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

002-A

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Lon: 84°44W

Precipitation (inches)

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	5.42	4.89	3.86	1964	25	11.60	1972	.88	1981	11.7	8.1	3.6	1.6	2.08	2.58	3.30	3.90	4.47	5.05	5.68	6.41	7.33	8.75	10.05
Feb	4.32	4.40	3.54	1961	21	8.48	1990	.51	1978	9.6	6.2	3.2	1.3	1.58	1.98	2.57	3.06	3.52	4.00	4.52	5.12	5.89	7.08	8.17
Mar	5.47	4.74	5.32	1963	13	12.09	1976	1.80	1985	10.8	8.0	3.2	1.6	1.91	2.42	3.18	3.81	4.41	5.04	5.72	6.51	7.52	9.08	10.52
Apr	4.44	4.21	3.89	1957	5	8.26	1979	1.18	1976	9.5	6.5	3.0	1.3	1.46	1.88	2.50	3.03	3.53	4.06	4.63	5.30	6.16	7.50	8.73
May	4.19	4.11	3.03	1959	20	10.08	1973	1.27	1992	10.5	7.3	2.8	1.0	1.35	1.75	2.34	2.84	3.32	3.82	4.37	5.01	5.83	7.11	8.29
Jun	3.50	3.36	2.32	1976	20	9.81	1989	.15	1988	9.6	6.2	2.4	.8	.80	1.12	1.63	2.10	2.56	3.04	3.59	4.25	5.11	6.48	7.76
Jul	4.64	4.44	3.78	1958	9	9.60	1984	.90	1993	11.9	7.9	2.8	1.3	1.56	2.00	2.65	3.19	3.72	4.25	4.84	5.53	6.42	7.79	9.05
Aug	4.11	3.74	5.89	1991	12	8.92	1974	1.11	1988	10.4	6.3	2.5	.9	1.33	1.72	2.30	2.79	3.26	3.75	4.28	4.91	5.71	6.96	8.12
Sep	4.03	3.68	4.85	1997	25	9.53	2000	.33	1984	9.1	6.0	2.6	1.0	.80	1.16	1.75	2.29	2.84	3.43	4.10	4.90	5.97	7.68	9.30
Oct	3.44	3.28	4.50	1958	1	10.80	1995	.40	1978	6.7	4.5	2.2	.9	.56	.85	1.35	1.83	2.32	2.85	3.46	4.20	5.19	6.80	8.34
Nov	4.41	4.16	3.35	1991	22	7.78	1992	2.01	1971	9.4	6.4	2.7	1.5	2.06	2.44	2.97	3.40	3.80	4.20	4.63	5.12	5.73	6.66	7.49
Dec	3.98	3.99	5.40	1961	12	7.66	1983	.92	1980	9.7	6.5	3.0	1.2	1.37	1.74	2.29	2.76	3.20	3.66	4.16	4.74	5.49	6.64	7.71
Ann	51.95	53.34	5.89	Aug 1991	12	12.09	Mar 1976	.15	Jun 1988	118.9	79.9	34.0	14.4	38.07	40.80	44.26	46.89	49.21	51.44	53.75	56.29	59.36	63.81	67.64

+ 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: 1952-2001

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COOP ID: 090181

Climate Division: GA 1

NWS Call Sign:

Elevation: 975 Feet

Lat: 34° 10N

Lon: 84° 44W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Feb	-99.9	-99.9	0	0	#	1974	26	#	1974	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Mar	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Apr	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
May	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jun	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jul	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Aug	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Sep	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Oct	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Nov	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Dec	-99.9	-99.9	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Ann	-9.9	-9.9	N/A	N/A	#	Feb 1974	26	#	Feb 1974	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.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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Station: ALLATOONA DAM 2, GA

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Climate Division: GA 1

NWS Call Sign:

Elevation: 975 Feet

Lat: 34° 10N

Lon: 84° 44W

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	4/28	4/24	4/21	4/18	4/16	4/14	4/11	4/08	4/04
32	4/17	4/13	4/09	4/06	4/04	4/01	3/29	3/26	3/21
28	4/06	3/31	3/27	3/23	3/19	3/16	3/12	3/07	3/01
24	3/21	3/14	3/09	3/05	3/01	2/24	2/20	2/15	2/08
20	3/09	2/28	2/22	2/17	2/12	2/07	2/01	1/26	1/17
16	3/03	2/22	2/16	2/10	2/04	1/30	1/24	1/17	1/06
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	10/05	10/10	10/14	10/17	10/20	10/23	10/27	10/30	11/05
32	10/23	10/27	10/31	11/02	11/05	11/07	11/10	11/13	11/18
28	10/26	11/02	11/08	11/12	11/16	11/20	11/24	11/30	12/07
24	11/09	11/18	11/24	11/29	12/04	12/09	12/15	12/21	12/29
20	11/30	12/08	12/13	12/18	12/23	12/27	1/01	1/06	1/14
16	12/07	12/16	12/23	12/29	1/03	1/08	1/14	1/21	2/02
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	202	197	193	190	187	184	180	177	171
32	233	227	222	218	214	211	207	202	195
28	272	261	254	247	241	235	228	221	210
24	306	296	289	284	278	273	267	260	251
20	347	333	325	318	311	305	298	290	279
16	>365	364	346	337	329	322	314	306	295

* 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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Climate Division: GA 1 NWS Call Sign: Elevation: 975 Feet Lat: 34°10N Lon: 84°44W

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	787	609	419	192	62	3	0	0	12	184	408	681	3357
60	640	469	279	94	20	0	0	0	2	95	275	531	2405
57	553	389	206	53	8	0	0	0	0	58	206	444	1917
55	496	337	164	33	4	0	0	0	0	40	167	388	1629
50	363	215	82	8	0	0	0	0	0	12	87	261	1028
32	63	10	0	0	0	0	0	0	0	0	0	23	96

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	299	325	609	822	1099	1291	1445	1416	1191	885	589	365	10336
55	19	8	60	165	390	601	732	703	501	212	66	17	3474
57	14	3	40	125	332	541	670	641	441	168	45	11	3031
60	8	0	20	76	250	451	577	548	352	112	24	5	2423
65	0	0	4	24	138	303	422	393	212	46	7	0	1549
70	0	0	0	4	61	169	270	242	98	13	0	0	857

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	113	170	364	585	850	1052	1197	1163	945	623	330	149	113	283	647	1232	2082	3134	4331	5494	6439	7062	7392	7541
45	50	94	239	435	695	902	1042	1008	795	468	200	77	50	144	383	818	1513	2415	3457	4465	5260	5728	5928	6005
50	25	40	137	299	540	752	887	853	645	321	110	36	25	65	202	501	1041	1793	2680	3533	4178	4499	4609	4645
55	3	14	65	181	392	602	732	698	496	196	48	11	3	17	82	263	655	1257	1989	2687	3183	3379	3427	3438
60	0	0	24	90	247	452	577	543	349	90	12	0	0	0	24	114	361	813	1390	1933	2282	2372	2384	2384
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	71	118	232	366	555	721	828	811	635	384	198	91	71	189	421	787	1342	2063	2891	3702	4337	4721	4919	5010

(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/normal/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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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