

# 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: ALMA BACON COUNTY AP, GA

1971-2000

COOP ID: 090211

Climate Division: GA 9

NWS Call Sign: AMG

Elevation: 206 Feet

Lat: 31° 32N

Lon: 82° 30W

## 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	61.9	41.4	51.7	83+	1975	30	65.6	1974	-1	1985	21	41.9	1977	432	5	.0	.0	27.1	.1	8.4	@
Feb	65.8	43.7	54.8	86	1989	16	61.9	1990	13	1996	5	44.8	1978	300	13	.0	.0	26.3	.1	5.3	.0
Mar	73.1	49.3	61.2	91	1963	18	67.3	1997	18	1980	3	56.0	1996	167	49	.0	.0	30.7	.0	1.6	.0
Apr	79.3	54.0	66.7	96	1986	27	72.0	1991	31	1987	1	63.1	1983	47	97	.0	1.0	30.0	.0	.1	.0
May	85.6	61.9	73.8	100	1967	28	78.5	1991	40	1971	4	71.1	1997	2	274	.0	6.1	31.0	.0	.0	.0
Jun	90.1	68.5	79.3	104+	1985	5	83.3	1998	47+	1984	2	75.1	1972	0	428	.5	16.6	30.0	.0	.0	.0
Jul	92.3	71.6	82.0	104	2000	20	84.7	1986	56	1967	16	79.0	1984	0	525	.7	23.2	31.0	.0	.0	.0
Aug	91.0	71.1	81.1	105	1995	18	83.4	1987	57+	1957	25	79.2	1981	0	497	.7	20.8	31.0	.0	.0	.0
Sep	87.1	67.5	77.3	101	1990	8	79.6	1990	40	1967	30	74.9	2000	0	369	@	10.5	30.0	.0	.0	.0
Oct	79.6	57.3	68.5	95+	1986	2	73.9	1985	26+	1954	31	62.6	1987	50	156	.0	1.1	31.0	.0	.0	.0
Nov	71.7	49.6	60.7	89	1957	17	68.1	1985	15	1950	25	52.8	1976	181	51	.0	.0	29.7	.0	1.8	.0
Dec	64.1	43.1	53.6	83+	1978	4	61.7	1971	7	1962	13	44.9	2000	371	18	.0	.0	28.2	@	6.7	.0
Ann	78.5	56.6	67.6	105	Aug 1995	18	84.7	Jul 1986	-1	Jan 1985	21	41.9	Jan 1977	1550	2482	1.9	79.3	356.0	.2	23.9	@

+ 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/normal/usnormals.html](http://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: 1948-2001

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

003-A

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**Elevation: 206 Feet**

**Lat: 31°32N**

**Lon: 82°30W**

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	4.83	4.61	2.91	1983	21	14.86	1991	1.00	1989	10.0	7.5	3.4	1.5	1.35	1.81	2.50	3.11	3.70	4.32	5.00	5.81	6.86	8.51	10.05
Feb	3.93	3.77	4.70	1986	6	9.27	1986	.52	1991	7.8	5.5	2.9	1.2	.87	1.23	1.81	2.33	2.85	3.41	4.03	4.77	5.76	7.32	8.79
Mar	4.80	4.12	4.98	1991	3	12.94	1980	1.24	1999	9.0	6.4	3.4	1.5	1.46	1.92	2.60	3.19	3.75	4.34	4.99	5.76	6.74	8.28	9.71
Apr	3.16	2.92	4.11	1961	15	7.83	1983	.27	1990	6.6	4.5	1.9	.8	.41	.66	1.11	1.55	2.02	2.53	3.13	3.86	4.85	6.48	8.06
May	3.04	2.42	3.93	1969	19	11.90	1976	.70	1983	8.4	5.2	1.9	.8	.48	.74	1.18	1.60	2.03	2.51	3.05	3.71	4.60	6.04	7.42
Jun	5.49	5.81	4.42	1972	19	11.43	1973	1.27	1977	11.4	8.4	3.8	1.6	1.71	2.23	3.01	3.67	4.31	4.98	5.71	6.57	7.67	9.40	10.99
Jul	6.01	5.29	5.04	1982	23	12.17	1971	1.52	1986	13.7	9.3	3.6	1.7	2.00	2.56	3.40	4.11	4.79	5.49	6.26	7.16	8.32	10.11	11.76
Aug	5.50	4.80	4.62	1949	27	11.14	1985	.77	1995	11.8	8.0	3.7	1.4	1.91	2.43	3.18	3.82	4.43	5.06	5.75	6.54	7.57	9.15	10.61
Sep	3.34	3.42	6.13	1953	26	7.68	1979	.24	1972	8.9	6.1	2.1	.9	.44	.71	1.18	1.65	2.14	2.68	3.31	4.08	5.13	6.85	8.52
Oct	2.79	1.55	5.69	1997	26	10.37	1994	.02+	2000	6.4	3.6	1.7	.8	.08	.19	.47	.82	1.24	1.76	2.42	3.29	4.55	6.75	8.99
Nov	2.57	2.24	3.08	1986	17	5.83	1977	.27	1991	6.9	4.3	1.9	.7	.36	.57	.93	1.29	1.66	2.08	2.55	3.13	3.92	5.21	6.45
Dec	3.67	3.10	6.92	1964	4	9.90	1983	.36	1984	8.4	5.4	2.3	1.1	.88	1.23	1.76	2.24	2.71	3.21	3.78	4.44	5.32	6.70	8.00
Ann	49.13	49.49	6.92	Dec 1964	4	14.86	Jan 1991	.02+	Oct 2000	109.3	74.2	32.6	14.0	36.16	38.71	41.95	44.39	46.56	48.65	50.79	53.16	56.02	60.16	63.72

+ 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: 1948-2001

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

Complete documentation available from:  
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Elevation: 206 Feet

Lat: 31°32N

Lon: 82°30W

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	#	.0	0	0	#	2000	24	#+	2000	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	#	0	4.4	1973	10	4.4	1973	4	1973	11	#	1973	.0	.0	@	.0	.0	.1	.1	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	2.3	1989	23	2.3	1989	1	1989	23	#	1989	.0	.0	.0	.0	.0	@	.0	.0	.0
Ann	.3	.0	N/A	N/A	4.4	Feb 1973	10	4.4	Feb 1973	4	Feb 1973	11	#+	Dec 1989	.0	.0	@	.0	.0	.1	.1	.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

Complete documentation available from:

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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	4/12	4/06	4/01	3/28	3/25	3/21	3/17	3/12	3/06
32	3/24	3/17	3/12	3/07	3/03	2/27	2/23	2/17	2/10
28	3/10	3/03	2/26	2/22	2/18	2/14	2/09	2/04	1/28
24	2/28	2/19	2/12	2/06	1/31	1/25	1/18	1/07	0/00
20	2/03	1/23	1/13	1/01	0/00	0/00	0/00	0/00	0/00
16	1/20	1/05	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	10/25	10/31	11/04	11/07	11/11	11/14	11/18	11/22	11/28
32	11/01	11/09	11/15	11/20	11/25	11/30	12/05	12/11	12/19
28	11/12	11/24	12/02	12/09	12/16	12/23	12/30	1/07	1/19
24	12/06	12/17	12/25	1/01	1/08	1/15	1/24	2/06	0/00
20	12/23	1/05	1/16	1/29	0/00	0/00	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	259	249	242	236	231	225	219	212	202
32	300	289	280	273	266	259	252	244	232
28	>365	314	306	299	294	289	283	277	268
24	>365	>365	>365	351	335	326	318	310	299
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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

Complete documentation available from:

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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	432	300	167	47	2	0	0	0	0	50	181	371	1550
60	319	187	82	10	0	0	0	0	0	15	97	246	956
57	257	134	46	3	0	0	0	0	0	6	59	186	691
55	221	105	29	1	0	0	0	0	0	3	40	151	550
50	142	46	8	0	0	0	0	0	0	0	13	79	288
32	11	0	0	0	0	0	0	0	0	0	0	1	12

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	621	637	905	1040	1295	1418	1548	1520	1359	1129	859	670	13001
55	118	97	221	351	582	728	835	807	669	420	209	108	5145
57	92	71	176	293	520	668	773	745	609	361	168	80	4556
60	61	39	119	210	427	578	680	652	519	276	116	47	3724
65	5	13	49	97	274	428	525	497	369	156	51	18	2482
70	4	2	14	28	137	278	370	342	222	68	16	6	1487

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	372	428	639	796	1042	1174	1303	1281	1120	876	610	423	372	800	1439	2235	3277	4451	5754	7035	8155	9031	9641	10064
45	248	298	488	646	887	1024	1148	1126	970	721	462	291	248	546	1034	1680	2567	3591	4739	5865	6835	7556	8018	8309
50	146	190	343	496	732	874	993	971	820	566	327	182	146	336	679	1175	1907	2781	3774	4745	5565	6131	6458	6640
55	77	104	212	349	577	724	838	816	670	412	211	101	77	181	393	742	1319	2043	2881	3697	4367	4779	4990	5091
60	33	50	113	216	423	574	683	661	520	268	113	50	33	83	196	412	835	1409	2092	2753	3273	3541	3654	3704
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	219	264	401	517	711	812	895	885	783	583	388	253	219	483	884	1401	2112	2924	3819	4704	5487	6070	6458	6711

(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](http://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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)