

Climatography of the United States

No. 20

1971-2000

Station: ATHENS BEN EPPS AP, GA

COOP ID: 090435

Climate Division: GA 2

NWS Call Sign: AHN

Elevation: 800 Feet

Lat: 33°57N

Lon: 83°20W

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	51.4	32.9	42.2	80+	1975	30	51.5	1974	-4	1985	21	30.0	1977	691	0	.0	.0	18.6	.8	14.9	.1
Feb	56.5	35.4	46.0	81+	1996	26	52.3	1990	5	1958	17	37.8	1978	522	1	.0	.0	20.3	.3	10.6	.0
Mar	64.7	42.3	53.5	88	1974	10	59.5	1997	11	1980	3	47.2	1971	350	8	.0	.0	28.7	@	4.2	.0
Apr	73.0	48.7	60.9	93	1986	27	66.1	1981	26	1992	3	57.2	1983	153	46	.0	.2	29.8	.0	.4	.0
May	80.5	57.6	69.1	97	1962	19	73.6	1982	37+	1989	8	64.8	1973	28	164	.0	2.0	31.0	.0	.0	.0
Jun	87.2	65.3	76.3	104	1954	27	81.0	1981	45	1972	1	71.8	1974	1	351	.4	11.0	30.0	.0	.0	.0
Jul	90.2	69.3	79.8	104	1977	8	85.3	1993	55	1967	15	75.8	1984	0	471	1.6	18.3	31.0	.0	.0	.0
Aug	88.2	68.5	78.4	107	1983	21	82.3	1983	54	1968	29	75.8	1976	0	430	.6	13.7	31.0	.0	.0	.0
Sep	82.5	62.7	72.6	99+	1957	2	75.4	1998	36	1967	30	69.3	1976	10	254	.0	5.2	30.0	.0	.0	.0
Oct	72.9	50.7	61.8	98+	1954	6	68.4	1984	24	1952	30	56.7	1976	136	53	.0	.2	30.9	.0	.4	.0
Nov	63.2	42.2	52.7	86	1961	2	61.1	1985	7	1950	25	45.8	1976	360	7	.0	.0	28.2	.0	5.1	.0
Dec	54.2	35.3	44.8	79+	1984	29	52.6	1984	2	1962	13	36.9	2000	610	0	.0	.0	21.5	.2	12.3	.0
Ann	72.0	50.9	61.5	107	Aug 1983	21	85.3	Jul 1993	-4	Jan 1985	21	30.0	Jan 1977	2861	1785	2.6	50.6	331.0	1.3	47.9	.1

+ 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: 1948-2001

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

007-A

**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: ATHENS BEN EPPS AP, GA

COOP ID: 090435

Climate Division: GA 2

NWS Call Sign: AHN

Elevation: 800 Feet

Lat: 33°57N

Lon: 83°20W

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	4.69	4.67	3.04	1966	15	6.92	1978	.64	1981	11.5	8.1	3.2	1.3	1.74	2.18	2.81	3.33	3.83	4.35	4.90	5.55	6.37	7.63	8.79
Feb	4.39	4.69	2.71	1981	10	7.72+	1998	.75	1978	9.6	6.8	2.9	1.4	1.36	1.78	2.40	2.93	3.45	3.98	4.56	5.25	6.14	7.52	8.80
Mar	4.99	4.22	3.82	1964	25	10.12	1975	1.15	1985	10.7	7.5	3.4	1.6	1.44	1.92	2.63	3.25	3.85	4.48	5.17	5.99	7.05	8.71	10.26
Apr	3.35	2.91	3.51	1998	3	10.92	1998	.74	1976	8.1	5.4	2.4	.8	.83	1.15	1.64	2.07	2.49	2.95	3.45	4.05	4.83	6.06	7.22
May	3.86	3.32	5.47	1959	26	9.73	1974	.41	1988	8.9	6.2	2.3	1.2	.83	1.18	1.75	2.26	2.78	3.33	3.95	4.69	5.67	7.23	8.71
Jun	3.94	3.18	9.93	1967	4	13.25	1994	.91	1988	9.8	6.3	2.5	1.2	.94	1.31	1.88	2.39	2.91	3.45	4.05	4.77	5.72	7.21	8.62
Jul	4.41	4.35	6.22	2001	25	10.20	1984	1.54	1993	10.1	6.7	3.0	1.4	1.49	1.91	2.52	3.04	3.53	4.04	4.60	5.25	6.09	7.39	8.58
Aug	3.78	3.63	4.32	1995	26	7.37	1994	.98	1987	9.2	5.8	2.6	1.1	1.26	1.62	2.15	2.59	3.02	3.46	3.94	4.50	5.23	6.35	7.38
Sep	3.53	3.26	5.34	1956	25	10.30	1989	.62	1985	8.5	5.2	2.4	1.1	.74	1.07	1.59	2.06	2.53	3.03	3.60	4.28	5.19	6.63	7.99
Oct	3.47	2.88	5.43	1989	1	7.75	1997	.12	1991	6.4	4.3	2.0	1.1	.30	.54	1.00	1.48	2.01	2.61	3.32	4.22	5.46	7.53	9.57
Nov	3.71	3.52	4.05	1948	27	8.25	1992	1.38	1990	9.0	6.0	2.9	1.1	1.54	1.88	2.36	2.75	3.12	3.49	3.89	4.36	4.94	5.84	6.65
Dec	3.71	3.11	3.60	1997	24	8.42	1972	.81	1988	10.0	6.5	2.3	1.1	1.08	1.44	1.97	2.42	2.87	3.34	3.85	4.46	5.24	6.47	7.61
Ann	47.83	49.59	9.93	Jun 1967	4	13.25	Jun 1994	.12	Oct 1991	111.8	74.8	31.9	14.4	34.20	36.84	40.22	42.78	45.06	47.26	49.52	52.03	55.07	59.47	63.28

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: ATHENS BEN EPPS AP, GA

COOP ID: 090435

Climate Division: GA 2

NWS Call Sign: AHN

Elevation: 800 Feet

Lat: 33°57N

Lon: 83°20W

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	1.1	.0	#	0	7.1	1987	22	7.1	1987	4	1982	15	#	1996	.7	.3	.1	@	.0	.8	.2	.0	.0
Feb	1.0	.0	#	0	7.4	1982	27	9.4	1982	3+	1980	6	#	1989	.5	.3	.2	@	.0	.4	.1	.0	.0
Mar	.6	.0	#	0	8.7	1983	24	8.7	1983	6	1983	25	#	1993	.2	.1	.1	@	.0	.2	.1	@	.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	#	1996	.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	1.0	1975	23	1.0	1975	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	3.0	1971	3	3.0	1971	3	1971	4	#	1993	.2	.1	@	.0	.0	.1	@	.0	.0
Ann	2.9	.0	N/A	N/A	8.7	Mar 1983	24	9.4	Feb 1982	6	Mar 1983	25	#+	May 1996	1.6	.8	.4	@	.0	1.5	.4	.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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: ATHENS BEN EPPS AP, GA

COOP ID: 090435

Climate Division: GA 2

NWS Call Sign: AHN

Elevation: 800 Feet

Lat: 33°57N

Lon: 83°20W

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	4/18	4/15	4/11	4/08	4/05	4/02	3/29	3/24
32	4/08	4/03	3/30	3/27	3/24	3/21	3/18	3/14	3/09
28	3/27	3/21	3/16	3/12	3/09	3/05	3/01	2/25	2/18
24	3/12	3/04	2/26	2/22	2/17	2/13	2/08	2/02	1/26
20	3/07	2/25	2/19	2/13	2/08	2/02	1/27	1/20	1/09
16	2/20	2/11	2/03	1/27	1/20	1/10	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	10/14	10/20	10/24	10/28	10/31	11/03	11/07	11/11	11/17
32	10/20	10/26	10/30	11/03	11/07	11/10	11/14	11/18	11/24
28	11/10	11/15	11/19	11/23	11/26	11/29	12/03	12/07	12/12
24	11/27	12/05	12/11	12/16	12/20	12/25	12/30	1/05	1/13
20	12/04	12/13	12/19	12/24	12/29	1/03	1/08	1/15	1/25
16	12/18	12/26	1/02	1/08	1/15	1/24	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	227	220	214	209	205	201	196	191	183
32	250	242	236	231	227	222	217	211	203
28	280	274	269	265	262	258	254	249	243
24	335	323	316	310	304	298	293	286	276
20	>365	351	335	326	319	312	306	298	288
16	>365	>365	>365	>365	>365	>365	341	328	315

* 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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: ATHENS BEN EPPS AP, GA

COOP ID: 090435

Climate Division: GA 2

NWS Call Sign: AHN

Elevation: 800 Feet

Lat: 33°57N

Lon: 83°20W

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	691	522	350	153	28	1	0	0	10	136	360	610	2861
60	564	396	229	64	7	0	0	0	0	71	244	481	2056
57	478	318	163	32	2	0	0	0	0	40	177	396	1606
55	423	268	126	18	0	0	0	0	0	25	139	341	1340
50	298	160	55	3	0	0	0	0	0	7	65	223	811
32	38	4	0	0	0	0	0	0	0	0	0	16	58

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	355	415	686	881	1163	1341	1495	1453	1235	944	642	426	11036
55	12	25	96	218	451	651	782	740	545	248	81	24	3873
57	7	15	69	173	390	591	720	678	485	198	58	16	3400
60	3	5	37	114	301	501	627	585	396	134	31	8	2742
65	0	1	8	46	164	351	471	430	254	53	7	0	1785
70	0	0	1	8	64	210	318	276	132	12	1	0	1022

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	171	240	454	645	925	1109	1253	1215	1001	707	413	224	171	411	865	1510	2435	3544	4797	6012	7013	7720	8133	8357
45	87	145	311	495	770	959	1098	1060	851	553	280	124	87	232	543	1038	1808	2767	3865	4925	5776	6329	6609	6733
50	35	72	195	354	615	809	943	905	701	401	171	62	35	107	302	656	1271	2080	3023	3928	4629	5030	5201	5263
55	13	29	101	226	461	659	788	750	551	257	87	29	13	42	143	369	830	1489	2277	3027	3578	3835	3922	3951
60	0	2	41	120	311	509	633	595	401	141	35	3	0	2	43	163	474	983	1616	2211	2612	2753	2788	2791
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	97	148	271	405	613	762	863	848	685	442	246	125	97	245	516	921	1534	2296	3159	4007	4692	5134	5380	5505

(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.
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