

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: PLAINS SW GA EXP STN, GA

1971-2000

COOP ID: 097087

Climate Division: GA 7

NWS Call Sign:

Elevation: 500 Feet

Lat: 32°03N

Lon: 84°22W

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	57.2	33.4	45.3	80	1975	31	58.9	1974	-2	1985	21	34.9	1977	621	0	.0	.0	23.7	.3	14.1	.1
Feb	61.6	36.3	49.0	83	1989	17	55.4	1990	8	1996	5	40.1	1978	450	0	.0	.0	23.9	.3	10.0	.0
Mar	69.0	43.8	56.4	89	1974	11	61.9	1997	14	1980	3	51.0	1971	283	16	.0	.0	29.9	@	2.6	.0
Apr	76.3	49.8	63.1	93	1986	28	67.7	1999	29	2000	9	58.9	1993	111	52	.0	.4	29.9	.0	.3	.0
May	83.5	58.7	71.1	98	1996	24	75.0	1998	41+	1971	4	67.3	1976	16	205	.0	4.3	31.0	.0	.0	.0
Jun	89.1	65.5	77.3	101+	1984	21	81.6	1998	47	1972	1	74.0	1997	0	369	.3	15.2	30.0	.0	.0	.0
Jul	91.2	68.5	79.9	102+	2000	21	83.0	1986	55	1967	15	76.9	1975	0	460	.9	21.1	31.0	.0	.0	.0
Aug	90.3	67.2	78.8	105	2000	19	82.6	1999	55+	1986	31	75.5	1981	0	425	1.1	18.2	31.0	.0	.0	.0
Sep	86.0	62.1	74.1	100+	1999	7	78.2	1980	37	1967	30	71.6	2000	3	275	.1	9.4	30.0	.0	.0	.0
Oct	77.7	50.2	64.0	94+	1959	4	70.0	1984	27	2001	28	58.2	1976	112	80	.0	.9	31.0	.0	.3	.0
Nov	68.7	42.4	55.6	87+	1961	4	63.5	1985	16	1970	25	47.1	1976	303	19	.0	.0	29.3	.0	4.3	.0
Dec	60.3	35.7	48.0	82	1978	8	56.0	1971	4	1962	13	40.2	2000	535	7	.0	.0	26.0	.2	11.0	.0
Ann	75.9	51.1	63.6	105	Aug 2000	19	83.0	Jul 1986	-2	Jan 1985	21	34.9	Jan 1977	2434	1908	2.4	69.5	346.7	.8	42.6	.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: 1956-2001

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

060-A

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No. 20
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NWS Call Sign:

Elevation: 500 Feet Lat: 32°03N

Lon: 84°22W

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	5.54	5.25	5.44	1962	6	9.69	1978	1.45	1981	11.1	8.1	3.7	1.6	2.19	2.71	3.43	4.04	4.60	5.18	5.81	6.53	7.45	8.85	10.13
Feb	4.70	4.27	5.37	1981	11	8.88	1981	1.09	2000	8.9	6.4	3.1	1.6	1.32	1.77	2.45	3.03	3.61	4.21	4.87	5.66	6.67	8.27	9.76
Mar	5.23	4.74	5.20	1970	31	9.75	1980	.61	1997	9.7	7.1	3.5	1.7	1.66	2.16	2.89	3.52	4.13	4.75	5.45	6.25	7.30	8.92	10.42
Apr	3.49	2.97	3.55	1998	18	11.89	1998	.38	1987	7.4	5.1	2.4	1.0	.51	.80	1.30	1.79	2.29	2.84	3.48	4.26	5.31	7.01	8.66
May	3.40	3.17	3.70	1976	15	8.40	1976	.34	2000	8.7	5.6	2.2	.9	.68	.99	1.49	1.95	2.41	2.91	3.47	4.14	5.03	6.46	7.81
Jun	4.52	3.99	4.92	2001	28	9.80	1989	1.56	1986	9.5	6.7	3.2	1.4	1.60	2.03	2.64	3.16	3.66	4.16	4.72	5.36	6.18	7.46	8.62
Jul	5.58	4.23	16.90	1994	6	24.79	1994	1.83	1980	11.8	8.5	3.4	1.2	1.42	1.94	2.75	3.47	4.18	4.92	5.75	6.74	8.03	10.06	11.96
Aug	3.72	3.69	3.19	1959	8	8.34	1995	.95	1993	10.0	7.0	2.4	.9	1.29	1.64	2.15	2.58	3.00	3.42	3.89	4.43	5.12	6.20	7.19
Sep	3.16	2.94	4.93	1998	3	11.79	1998	.20	1978	8.1	5.6	2.1	.7	.46	.72	1.17	1.61	2.07	2.57	3.15	3.85	4.81	6.36	7.86
Oct	2.36	1.79	5.40	1993	30	7.90	1976	.04	1979	5.3	3.5	1.6	.8	.11	.24	.51	.82	1.19	1.62	2.15	2.84	3.81	5.47	7.14
Nov	3.78	3.11	3.90	1985	22	9.02	1992	.82	1991	7.7	5.2	2.4	1.1	.93	1.28	1.84	2.33	2.81	3.32	3.90	4.58	5.47	6.88	8.21
Dec	3.88	3.32	4.05	1972	6	7.76	1972	.74	1980	9.4	6.4	2.8	1.1	1.15	1.52	2.08	2.55	3.02	3.50	4.03	4.66	5.47	6.74	7.92
Ann	49.36	47.36	16.90	Jul 1994	6	24.79	Jul 1994	.04	Oct 1979	107.6	75.2	32.8	14.0	34.89	37.69	41.27	43.99	46.41	48.75	51.17	53.85	57.09	61.80	65.88

+ 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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Climate Division: GA 7

NWS Call Sign:

Elevation: 500 Feet

Lat: 32°03N

Lon: 84°22W

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	.0	#	0	2.0	1977	31	2.0	1977	#	1983	20	#	1983	.1	@	.0	.0	.0	.0	.0	.0	.0
Feb	.3	.0	#	0	8.0	1973	10	8.0	1973	#	1983	15	#	1983	@	@	@	@	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.8	1980	3	.8	1980	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	#	.0	0	0	#	1988	13	#	1988	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.4	.0	N/A	N/A	8.0	Feb 1973	10	8.0	Feb 1973	#+	Feb 1983	15	#+	Feb 1983	.1	@	@	@	.0	.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

Complete documentation available from:

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Station: PLAINS SW GA EXP STN, GA

COOP ID: 097087

Climate Division: GA 7

NWS Call Sign:

Elevation: 500 Feet

Lat: 32° 03N

Lon: 84° 22W

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	4/20	4/14	4/10	4/07	4/04	4/01	3/28	3/24	3/19
32	4/03	3/28	3/23	3/19	3/16	3/12	3/09	3/04	2/26
28	3/16	3/09	3/04	2/28	2/24	2/19	2/15	2/10	2/03
24	3/08	2/28	2/23	2/18	2/13	2/09	2/04	1/30	1/22
20	2/28	2/19	2/13	2/07	2/02	1/27	1/20	1/09	0/00
16	2/13	2/04	1/28	1/22	1/15	1/06	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	10/16	10/21	10/25	10/28	10/31	11/03	11/06	11/09	11/14
32	10/27	11/02	11/07	11/11	11/15	11/19	11/23	11/28	12/04
28	11/06	11/14	11/20	11/24	11/29	12/03	12/08	12/14	12/21
24	11/22	12/02	12/08	12/14	12/20	12/25	12/31	1/07	1/16
20	12/09	12/21	12/30	1/07	1/14	1/22	2/01	2/15	0/00
16	12/22	1/01	1/09	1/16	1/23	2/02	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	230	223	218	213	209	205	201	196	189
32	270	261	254	249	243	238	232	226	217
28	308	298	290	284	278	271	265	257	247
24	342	329	320	313	307	300	293	285	274
20	>365	>365	>365	>365	350	332	321	311	299
16	>365	>365	>365	>365	>365	>365	>365	341	325

* 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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COOP ID: 097087

Climate Division: GA 7 NWS Call Sign: Elevation: 500 Feet Lat: 32°03N Lon: 84°22W

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	621	450	283	111	16	0	0	0	3	112	303	535	2434
60	478	318	165	41	2	0	0	0	0	48	189	391	1632
57	398	244	111	18	0	0	0	0	0	25	135	312	1243
55	349	200	81	9	0	0	0	0	0	15	104	265	1023
50	244	111	29	1	0	0	0	0	0	3	46	168	602
32	28	2	0	0	0	0	0	0	0	0	0	8	38

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	441	476	756	931	1212	1359	1483	1448	1262	990	706	503	11567
55	49	30	124	250	499	669	770	735	572	292	120	47	4157
57	36	18	92	199	437	609	708	673	512	240	91	32	3647
60	23	9	53	132	346	519	615	580	422	170	55	18	2942
65	0	0	16	52	205	369	460	425	275	80	19	7	1908
70	0	0	3	12	96	223	305	271	144	26	5	0	1085

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	246	311	542	718	992	1144	1260	1230	1056	784	506	311	246	557	1099	1817	2809	3953	5213	6443	7499	8283	8789	9100
45	147	203	396	568	837	994	1105	1075	906	629	368	200	147	350	746	1314	2151	3145	4250	5325	6231	6860	7228	7428
50	77	115	263	422	682	844	950	920	756	475	241	113	77	192	455	877	1559	2403	3353	4273	5029	5504	5745	5858
55	31	55	153	282	527	694	795	765	606	325	144	60	31	86	239	521	1048	1742	2537	3302	3908	4233	4377	4437
60	10	20	72	163	372	544	640	610	456	201	68	26	10	30	102	265	637	1181	1821	2431	2887	3088	3156	3182
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	152	201	335	457	663	787	864	847	719	511	320	196	152	353	688	1145	1808	2595	3459	4306	5025	5536	5856	6052

(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