

Climatography of the United States

No. 20

1971-2000

Station: SWAINSBORO, GA

COOP ID: 098496

Climate Division: GA 6

NWS Call Sign:

Elevation: 320 Feet

Lat: 32° 35N

Lon: 82° 23W

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	58.3	35.6	47.0	83+	1975	30	59.5	1974	-3	1985	21	36.7	1977	572	0	.0	.0	25.4	.1	11.3	@
Feb	63.0	37.3	50.2	85	1962	28	57.3	1990	10	1996	5	40.9	1978	418	1	.0	.0	25.1	.1	8.1	.0
Mar	70.3	43.3	56.8	90+	1974	10	63.3	1997	18+	1996	9	51.6	1971	273	19	.0	@	30.5	.0	3.3	.0
Apr	77.3	49.8	63.6	96	1986	27	68.4	1999	26	1983	20	58.5	1983	98	55	.0	.9	30.0	.0	.5	.0
May	84.1	58.5	71.3	101+	1956	31	77.0	1998	36	1971	4	67.5	1992	17	211	.0	6.6	31.0	.0	.0	.0
Jun	90.1	66.6	78.4	107+	1998	28	85.9	1998	47	1972	2	74.2	1997	0	401	1.2	17.9	30.0	.0	.0	.0
Jul	92.3	69.6	81.0	109	1952	24	84.8	1998	56	1967	15	77.4	1975	0	495	2.2	24.7	31.0	.0	.0	.0
Aug	91.2	69.0	80.1	107	1954	17	84.5	1999	56+	1986	29	77.3	1981	0	467	1.4	21.2	31.0	.0	.0	.0
Sep	86.5	64.6	75.6	103	1999	6	79.6	1998	34	1967	30	72.9	1981	2	319	.3	10.8	30.0	.0	.0	.0
Oct	77.6	52.7	65.2	99	1954	5	71.7	1984	28	1962	27	59.8	1987	97	102	.0	.6	31.0	.0	.2	.0
Nov	69.5	43.9	56.7	88	1950	2	64.8	1985	6	1950	25	48.8	1976	282	32	.0	.0	29.5	.0	4.6	.0
Dec	61.7	37.3	49.5	84+	1978	4	57.8	1971	7	1983	25	41.7+	2000	490	9	.0	.0	26.9	.1	9.8	.0
Ann	76.8	52.4	64.6	109	Jul 1952	24	85.9	Jun 1998	-3	Jan 1985	21	36.7	Jan 1977	2249	2111	5.1	82.7	351.4	.3	37.8	@

+ 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: 1948-2000

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

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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: SWAINSBORO, GA

COOP ID: 098496

Climate Division: GA 6

NWS Call Sign:

Elevation: 320 Feet Lat: 32°35N

Lon: 82°23W

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	4.68	4.28	3.65	1967	1	10.35	1997	1.09	1981	9.7	7.0	3.2	1.5	1.60	2.04	2.69	3.23	3.76	4.30	4.88	5.57	6.45	7.82	9.07
Feb	3.98	3.38	3.61	1960	13	9.65	1998	.39	1991	6.8	5.1	2.6	1.6	.99	1.36	1.94	2.46	2.97	3.50	4.11	4.82	5.75	7.23	8.62
Mar	4.85	4.36	3.50	1970	20	10.08	1998	1.06	1985	8.2	5.9	3.3	1.7	1.41	1.88	2.57	3.17	3.75	4.36	5.03	5.82	6.85	8.45	9.94
Apr	3.21	3.23	3.11	1959	2	8.15	1982	.55	1986	7.2	5.1	2.3	1.0	.84	1.15	1.61	2.02	2.42	2.84	3.31	3.87	4.60	5.74	6.81
May	2.50	1.82	3.23	1969	15	6.51	1991	.45	2000	7.0	4.7	1.7	.7	.45	.68	1.04	1.38	1.73	2.10	2.53	3.05	3.73	4.84	5.89
Jun	4.07	3.64	3.72+	1973	23	13.46	1973	.35	1990	9.0	6.0	2.7	1.2	.71	1.07	1.66	2.22	2.79	3.41	4.11	4.97	6.11	7.95	9.71
Jul	4.67	4.44	3.39	1957	3	9.70	1994	.69	1980	10.0	6.9	3.3	1.3	1.25	1.69	2.37	2.96	3.54	4.15	4.83	5.63	6.68	8.32	9.85
Aug	4.98	5.33	6.25	1995	26	10.81	1995	.36	1980	8.8	6.4	2.9	1.5	1.04	1.50	2.23	2.89	3.56	4.28	5.08	6.05	7.33	9.38	11.32
Sep	3.57	3.09	5.36	1999	28	12.40	1999	.48	1985	7.7	4.9	2.4	1.1	.51	.81	1.32	1.82	2.34	2.90	3.56	4.36	5.45	7.21	8.92
Oct	2.73	1.76	6.84	1962	4	12.04	1990	.03	1978	4.9	3.4	1.5	.8	.07	.17	.43	.77	1.18	1.69	2.34	3.21	4.47	6.68	8.94
Nov	2.68	2.84	5.03	1978	30	7.98	1985	.05	1998	6.6	4.2	2.0	.8	.32	.53	.91	1.28	1.68	2.12	2.63	3.27	4.14	5.56	6.95
Dec	3.37	3.42	3.13	1972	6	6.02	1972	1.05	1988	7.7	5.0	2.6	1.1	1.15	1.46	1.93	2.32	2.70	3.09	3.52	4.02	4.65	5.64	6.55
Ann	45.29	45.98	6.84	Oct 1962	4	13.46	Jun 1973	.03	Oct 1978	93.6	64.6	30.5	14.3	33.87	36.13	38.99	41.15	43.06	44.89	46.78	48.85	51.36	54.97	58.07

+ 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: 1948-2000

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

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Station: SWAINSBORO, GA

COOP ID: 098496

Climate Division: GA 6

NWS Call Sign:

Elevation: 320 Feet

Lat: 32°35N

Lon: 82°23W

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	#	1976	17	#+	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1985	12	#+	1985	8	1973	10	1	1973	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1986	1	#	1986	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	0	1.5	1993	23	1.5	1993	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.5	Dec 1993	23	1.5	Dec 1993	8	Feb 1973	10	1	Feb 1973	@	@	.0	.0	.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

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NWS Call Sign:

Elevation: 320 Feet

Lat: 32°35N

Lon: 82°23W

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	4/23	4/17	4/12	4/09	4/05	4/02	3/29	3/25	3/19
32	4/11	4/04	3/30	3/26	3/21	3/17	3/13	3/08	3/01
28	3/27	3/19	3/14	3/09	3/05	3/01	2/24	2/19	2/11
24	3/09	3/01	2/23	2/18	2/14	2/09	2/04	1/29	1/21
20	2/28	2/19	2/12	2/06	1/31	1/25	1/17	1/02	0/00
16	2/10	1/29	1/19	1/09	12/26	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	10/12	10/18	10/22	10/26	10/30	11/02	11/06	11/10	11/16
32	10/24	10/31	11/05	11/09	11/12	11/16	11/20	11/25	12/01
28	11/05	11/12	11/16	11/20	11/24	11/27	12/01	12/06	12/12
24	11/22	12/02	12/09	12/15	12/20	12/26	1/01	1/08	1/18
20	12/07	12/18	12/27	1/04	1/11	1/19	1/29	2/17	0/00
16	12/18	12/30	1/09	1/19	2/03	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	231	223	217	211	207	202	197	191	182
32	267	256	248	241	235	229	222	214	203
28	291	282	275	269	263	257	251	244	235
24	>365	324	315	309	304	298	293	287	278
20	>365	>365	>365	>365	343	329	319	309	297
16	>365	>365	>365	>365	>365	>365	>365	345	326

* 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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NWS Call Sign:

Elevation: 320 Feet Lat: 32°35N Lon: 82°23W

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	572	418	273	98	17	0	0	0	2	97	282	490	2249
60	431	289	158	33	2	0	0	0	0	41	178	349	1481
57	354	218	106	14	0	0	0	0	0	21	129	274	1116
55	308	176	77	7	0	0	0	0	0	13	100	230	911
50	210	96	28	1	0	0	0	0	0	3	45	141	524
32	20	1	0	0	0	0	0	0	0	0	0	5	26

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	483	509	769	947	1217	1390	1518	1490	1307	1027	740	547	11944
55	58	40	133	264	504	700	805	777	617	327	150	59	4434
57	42	25	100	211	442	640	743	715	557	273	118	41	3907
60	26	12	59	140	351	550	650	622	467	200	78	23	3178
65	0	1	19	55	211	401	495	467	319	102	32	9	2111
70	0	0	4	13	103	257	340	312	181	38	11	0	1259

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	297	359	586	751	1014	1167	1296	1264	1087	814	536	355	297	656	1242	1993	3007	4174	5470	6734	7821	8635	9171	9526
45	181	245	434	601	859	1017	1141	1109	937	659	394	229	181	426	860	1461	2320	3337	4478	5587	6524	7183	7577	7806
50	99	147	300	451	704	867	986	954	787	504	266	134	99	246	546	997	1701	2568	3554	4508	5295	5799	6065	6199
55	49	76	181	312	549	717	831	799	637	356	160	70	49	125	306	618	1167	1884	2715	3514	4151	4507	4667	4737
60	17	31	92	185	394	567	676	644	488	220	82	32	17	48	140	325	719	1286	1962	2606	3094	3314	3396	3428
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	182	231	378	491	680	790	874	865	745	537	347	224	182	413	791	1282	1962	2752	3626	4491	5236	5773	6120	6344

(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