

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: SAPELO ISLAND, GA

1971-2000

COOP ID: 097808

Climate Division: GA 9

NWS Call Sign:

Elevation: 10 Feet

Lat: 31° 24N

Lon: 81° 17W

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	60.1	41.9	51.0	82	1975	30	63.8	1974	3	1985	21	42.3	1977	453	4	.0	.0	27.8	@	6.6	.0
Feb	62.1	43.7	52.9	86	1962	28	60.5	1990	10	1995	9	43.9	1978	348	9	.0	.0	26.2	.1	4.3	.0
Mar	68.0	49.9	59.0	88+	1967	12	66.4	1997	20	1980	3	53.8	1981	221	33	.0	.0	30.6	.0	1.0	.0
Apr	74.5	56.2	65.4	95	1989	29	70.5	1999	33	1987	1	62.2	1987	62	73	.0	.4	30.0	.0	.0	.0
May	81.0	64.7	72.9	99	1962	21	77.5	1991	45	1992	8	69.5	1981	7	250	.0	2.6	31.0	.0	.0	.0
Jun	86.4	71.1	78.8	101+	1998	30	84.2	1998	51	1984	1	75.1	1972	0	413	.2	9.4	30.0	.0	.0	.0
Jul	89.8	73.7	81.8	105	1986	20	84.2	1993	60	1977	5	78.9	1975	0	520	.5	17.3	31.0	.0	.0	.0
Aug	88.3	73.3	80.8	102+	1999	2	83.7	1999	58	1978	21	78.1	1976	0	490	.1	12.5	31.0	.0	.0	.0
Sep	84.5	70.3	77.4	97+	1999	6	79.6	1998	48	1967	30	74.0	1984	0	373	.0	4.4	30.0	.0	.0	.0
Oct	77.2	60.9	69.1	94+	1986	5	74.4	1985	37+	1989	21	63.4	1987	39	164	.0	.4	31.0	.0	.0	.0
Nov	69.7	51.5	60.6	89	1961	1	68.1	1985	26	1959	30	51.6	1976	187	55	.0	.0	29.9	.0	.6	.0
Dec	61.7	44.1	52.9	84	1972	16	59.9	1971	9	1983	25	45.2	1989	387	12	.0	.0	28.9	.1	4.2	.0
Ann	75.3	58.4	66.9	105	Jul 1986	20	84.2+	Jun 1998	3	Jan 1985	21	42.3	Jan 1977	1704	2396	.8	47.0	357.4	.2	16.7	.0

+ 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: 1957-2001

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

064-A

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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	4.07	3.56	5.04	1983	21	12.74	1987	.98	1989	9.6	6.7	2.8	1.2	.98	1.36	1.95	2.48	3.01	3.57	4.19	4.93	5.90	7.44	8.89
Feb	3.53	2.99	4.26	1998	17	9.10	1998	.70	1989	8.3	5.6	2.6	1.1	.91	1.24	1.75	2.21	2.65	3.12	3.65	4.27	5.08	6.36	7.56
Mar	3.97	3.31	3.86	1980	13	9.50	1980	.72	1999	8.4	5.6	2.7	1.2	1.06	1.44	2.01	2.52	3.01	3.53	4.11	4.79	5.68	7.07	8.38
Apr	3.01	2.57	3.13	1982	26	8.33	1982	.42+	1986	6.2	4.4	2.4	.9	.47	.72	1.16	1.58	2.01	2.48	3.02	3.68	4.56	6.00	7.37
May	2.81	2.56	3.51	1981	27	6.86	1991	.00	1987	7.3	4.6	2.0	.8	.22	.52	.98	1.39	1.82	2.28	2.82	3.47	4.35	5.77	7.15
Jun	4.98	4.88	8.07	1984	23	12.04	1982	.58	1990	10.1	7.4	2.9	1.5	1.24	1.71	2.44	3.08	3.71	4.38	5.13	6.02	7.18	9.02	10.74
Jul	4.98	4.68	4.52	1967	17	10.14	1971	.59	1993	11.8	7.6	2.7	1.3	1.30	1.77	2.49	3.13	3.76	4.42	5.15	6.02	7.15	8.93	10.60
Aug	7.48	8.01	6.40	1960	25	15.61	1976	.80	1994	12.2	9.0	4.4	2.4	1.90	2.61	3.70	4.66	5.61	6.61	7.72	9.04	10.77	13.50	16.05
Sep	7.30	6.47	4.70+	1984	28	19.45	1989	1.13	1980	11.7	8.4	4.2	2.3	1.54	2.21	3.29	4.26	5.24	6.28	7.46	8.87	10.74	13.72	16.54
Oct	3.85	2.71	6.80	1992	4	12.94	1994	.11	2000	7.2	4.7	2.2	1.1	.37	.64	1.17	1.70	2.28	2.94	3.72	4.70	6.04	8.26	10.44
Nov	2.87	2.50	4.37	1986	17	7.66	1986	.21	1998	7.2	4.0	1.7	.9	.43	.67	1.08	1.48	1.89	2.34	2.87	3.50	4.36	5.76	7.10
Dec	2.99	2.53	3.01	1962	1	7.46	1997	.29	1984	8.4	5.0	2.2	.8	.47	.72	1.15	1.57	1.99	2.46	3.00	3.65	4.53	5.96	7.32
Ann	51.84	51.58	8.07	Jun 1984	23	19.45	Sep 1989	.00	May 1987	108.4	73.0	32.8	15.5	37.82	40.56	44.06	46.71	49.05	51.32	53.65	56.22	59.33	63.82	67.70

+ 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: 1957-2001

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

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Lat: 31°24N

Lon: 81°17W

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	#	1977	31	#	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.5	1973	10	.5	1973	1	1973	10	#	1973	@	.0	.0	.0	.0	@	.0	.0	.0
Mar	.0	.0	0	0	.7	1986	1	.7	1986	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	.2	.0	0	0	2.9	1989	23	4.7	1989	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	2.9	Dec 1989	23	4.7	Dec 1989	1	Feb 1973	10	#	Feb 1973	.1	.1	.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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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	4/01	3/25	3/19	3/15	3/11	3/07	3/03	2/26	2/19
32	3/18	3/10	3/05	2/28	2/24	2/19	2/14	2/09	2/01
28	3/06	2/26	2/20	2/15	2/10	2/05	1/31	1/24	1/10
24	2/25	2/15	2/07	1/31	1/24	1/16	1/04	0/00	0/00
20	2/03	1/21	1/07	0/00	0/00	0/00	0/00	0/00	0/00
16	1/19	12/29	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	11/05	11/11	11/15	11/19	11/22	11/26	11/30	12/04	12/10
32	11/14	11/23	11/29	12/04	12/09	12/14	12/20	12/26	1/03
28	12/01	12/11	12/19	12/26	1/01	1/07	1/14	1/24	2/10
24	12/17	12/29	1/07	1/15	1/23	2/01	2/15	0/00	0/00
20	1/03	1/19	2/06	0/00	0/00	0/00	0/00	0/00	0/00
16	1/12	2/03	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	282	273	267	261	256	250	245	238	229
32	323	311	302	295	288	281	274	265	253
28	>365	>365	339	327	318	311	304	296	286
24	>365	>365	>365	>365	>365	>365	339	326	314
20	>365	>365	>365	>365	>365	>365	>365	>365	358
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	453	348	221	62	7	0	0	0	0	39	187	387	1704
60	330	228	123	15	0	0	0	0	0	11	103	256	1066
57	265	168	79	5	0	0	0	0	0	4	64	191	776
55	227	135	55	2	0	0	0	0	0	2	45	154	620
50	146	67	19	0	0	0	0	0	0	0	15	80	327
32	10	0	0	0	0	0	0	0	0	0	0	0	10

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	599	585	835	1001	1266	1403	1543	1513	1363	1149	858	648	12763
55	103	77	177	313	553	713	830	800	673	438	213	89	4979
57	78	54	138	256	491	653	768	738	613	378	172	64	4403
60	51	29	90	176	398	563	675	645	523	291	121	35	3597
65	4	9	33	73	250	413	520	490	373	164	55	12	2396
70	3	0	9	17	127	265	365	335	225	71	19	1	1437

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	367	405	615	775	1027	1169	1302	1271	1133	907	640	432	367	772	1387	2162	3189	4358	5660	6931	8064	8971	9611	10043
45	238	272	465	625	872	1019	1147	1116	983	752	491	294	238	510	975	1600	2472	3491	4638	5754	6737	7489	7980	8274
50	137	161	321	475	717	869	992	961	833	598	347	178	137	298	619	1094	1811	2680	3672	4633	5466	6064	6411	6589
55	64	80	192	329	562	719	837	806	683	443	221	95	64	144	336	665	1227	1946	2783	3589	4272	4715	4936	5031
60	27	26	88	196	408	569	682	651	533	296	117	41	27	53	141	337	745	1314	1996	2647	3180	3476	3593	3634
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	204	226	364	494	708	830	922	912	815	605	393	243	204	430	794	1288	1996	2826	3748	4660	5475	6080	6473	6716

(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.

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| <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 |
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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