

Climatology of the United States

No. 20

1971-2000

Station: SAVANNAH MUNICIPAL AP, GA

COOP ID: 097847

Climate Division: GA 9

NWS Call Sign: SAV

Elevation: 46 Feet

Lat: 32°07N

Lon: 81°12W

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	60.4	38.0	49.2	84	1957	29	62.2	1974	3	1985	21	39.1	1977	480	6	.0	.0	26.2	.1	8.7	.0
Feb	64.1	40.9	52.5	86+	1989	16	59.2	1990	14	1958	18	43.0	1978	350	11	.0	.0	25.5	.1	5.5	.0
Mar	71.0	47.5	59.3	91	1974	10	64.7	1997	20+	1980	3	53.9	1971	202	39	.0	@	30.4	@	1.2	.0
Apr	77.7	52.9	65.3	95+	1986	27	69.2	1991	32+	1987	1	61.7	1993	74	99	.0	1.3	30.0	.0	@	.0
May	84.3	61.3	72.8	100+	1953	31	76.7	1991	39	1963	2	68.9+	1997	7	265	.0	5.5	31.0	.0	.0	.0
Jun	89.5	68.1	78.8	104	1985	2	83.6	1981	51	1984	1	74.9	1972	0	430	1.0	15.2	30.0	.0	.0	.0
Jul	92.3	71.8	82.1	105	1986	20	85.9	1993	61+	1972	9	77.7	1975	0	546	1.6	23.0	31.0	.0	.0	.0
Aug	90.3	71.3	80.8	104	1954	5	83.9	1987	57	1986	29	77.6	1976	0	506	.3	18.6	31.0	.0	.0	.0
Sep	86.0	67.3	76.7	98+	1986	28	79.8	1980	43	1967	30	74.3	1976	2	366	.0	8.1	30.0	.0	.0	.0
Oct	78.1	56.1	67.1	97	1986	2	72.5	1984	28	1952	30	60.9	1987	57	138	.0	.6	31.0	.0	@	.0
Nov	70.5	46.9	58.7	89	1961	1	66.7	1985	15	1950	25	50.7	1976	211	38	.0	.0	29.7	.0	1.5	.0
Dec	62.6	40.1	51.4	83	1967	20	59.8	1971	9+	1983	26	42.9	1989	416	10	.0	.0	27.8	.1	6.7	.0
Ann	77.2	55.2	66.2	105	Jul 1986	20	85.9	Jul 1993	3	Jan 1985	21	39.1	Jan 1977	1799	2454	2.9	72.3	353.6	.3	23.6	.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: 1948-2001

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

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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	3.95	3.46	3.27	1992	13	8.98	1991	.45	1989	10.0	6.7	2.4	1.0	.85	1.21	1.79	2.31	2.84	3.40	4.03	4.79	5.79	7.39	8.90
Feb	2.92	2.94	3.46	1964	18	6.88	1998	.26	1991	8.0	5.0	2.2	.7	.68	.95	1.38	1.76	2.14	2.54	3.00	3.54	4.24	5.37	6.42
Mar	3.64	3.77	3.57	1959	5	9.01	1983	.72	1995	8.6	5.8	2.4	1.0	.99	1.34	1.86	2.32	2.77	3.24	3.76	4.38	5.19	6.45	7.63
Apr	3.32	3.32	5.62	1976	30	10.57	1991	.38	1986	6.6	4.2	1.9	.9	.66	.96	1.45	1.89	2.34	2.83	3.38	4.04	4.91	6.31	7.64
May	3.61	3.31	3.79	1964	2	8.49	1979	1.03	1977	8.3	5.4	2.2	1.0	.88	1.22	1.75	2.22	2.68	3.17	3.72	4.37	5.22	6.57	7.84
Jun	5.49	5.85	6.60	1999	29	14.25	1999	.97	1990	11.2	7.6	3.2	1.4	1.23	1.74	2.55	3.27	3.99	4.76	5.63	6.66	8.02	10.18	12.22
Jul	6.04	5.46	3.78	1957	27	15.41	1991	1.35	1972	12.7	8.4	4.2	1.8	1.67	2.25	3.11	3.87	4.62	5.39	6.25	7.27	8.59	10.67	12.60
Aug	7.20	7.19	5.75	1995	25	17.03	1995	1.02	1980	13.2	9.1	4.8	2.2	1.88	2.57	3.61	4.53	5.43	6.38	7.44	8.69	10.32	12.89	15.30
Sep	5.08	5.44	8.47	1950	5	12.20	1979	.35	1991	10.5	6.8	3.0	1.4	.61	1.01	1.72	2.43	3.18	4.02	5.00	6.21	7.85	10.55	13.17
Oct	3.12	1.68	7.11	1994	2	19.84	1994	.00	2000	6.3	3.8	1.5	.6	.04	.19	.54	.96	1.45	2.05	2.78	3.74	5.11	7.46	9.83
Nov	2.40	1.95	2.32	1964	24	5.26	1993	.30	1998	6.8	4.0	2.1	.7	.40	.61	.96	1.28	1.62	1.99	2.41	2.93	3.61	4.72	5.79
Dec	2.81	2.75	3.31	1964	4	5.80	1977	.12	1984	8.6	5.3	1.8	.8	.70	.96	1.37	1.74	2.10	2.47	2.90	3.40	4.06	5.10	6.07
Ann	49.58	48.68	8.47	Sep 1950	5	19.84	Oct 1994	.00	Oct 2000	110.8	72.1	31.7	13.5	34.95	37.77	41.38	44.13	46.58	48.94	51.39	54.09	57.37	62.13	66.26

+ 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

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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	0	1.3	1977	31	2.0	1977	#+	1988	9	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	#	0	3.2	1973	10	3.2	1973	3	1973	11	#	1989	.1	.1	@	.0	.0	.1	@	.0	.0
Mar	.1	.0	0	0	1.1	1986	1	1.1	1986	#+	1986	1	0	0	.1	.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	#	1988	.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	3.2	1989	23	3.6	1989	4	1989	24	#	1989	.1	.0	@	.0	.0	.2	@	.0	.0
Ann	.6	.0	N/A	N/A	3.2+	Dec 1989	23	3.6	Dec 1989	4	Dec 1989	24	#+	Dec 1989	.4	.1	@	.0	.0	.3	.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	4/11	4/05	3/31	3/27	3/24	3/20	3/16	3/12	3/05
32	3/20	3/14	3/09	3/05	3/01	2/25	2/21	2/17	2/10
28	3/08	3/02	2/25	2/22	2/18	2/15	2/11	2/06	1/31
24	3/01	2/21	2/14	2/09	2/03	1/28	1/21	1/07	0/00
20	2/08	1/30	1/22	1/14	1/06	12/22	0/00	0/00	0/00
16	1/14	12/28	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	10/29	11/03	11/06	11/10	11/13	11/15	11/19	11/22	11/27
32	11/05	11/12	11/17	11/21	11/25	11/28	12/02	12/07	12/14
28	11/17	11/27	12/05	12/12	12/18	12/24	12/30	1/07	1/18
24	12/03	12/15	12/24	1/01	1/09	1/17	1/28	2/16	0/00
20	12/21	1/02	1/11	1/20	1/30	2/16	0/00	0/00	0/00
16	1/04	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	250	244	238	233	228	222	215	206
32	298	287	280	274	268	262	255	248	238
28	336	322	314	306	300	293	286	278	267
24	>365	>365	>365	>365	332	322	314	307	297
20	>365	>365	>365	>365	>365	>365	364	345	330
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

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Degree Days to Selected Base Temperatures (°F)

Base	Heating Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below 65	480	350	202	74	7	0	0	0	2	57	211	416	1799
60	372	232	105	16	0	0	0	0	0	25	129	302	1181
57	301	169	62	5	0	0	0	0	0	12	85	234	868
55	259	135	41	2	0	0	0	0	0	7	61	194	699
50	172	66	11	0	0	0	0	0	0	1	22	113	385
32	13	0	0	0	0	0	0	0	0	0	0	3	16

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above 32	558	590	866	1017	1287	1424	1572	1530	1353	1101	823	615	12736
55	57	82	200	332	575	734	859	817	663	392	188	78	4977
57	41	60	158	278	513	674	797	755	603	333	150	58	4420
60	23	35	102	201	420	584	704	662	513	251	100	34	3629
65	6	11	39	99	265	430	546	506	366	138	38	10	2454
70	1	1	8	33	137	286	394	352	222	54	9	1	1498

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	340	398	625	785	1049	1194	1328	1288	1121	863	593	391	340	738	1363	2148	3197	4391	5719	7007	8128	8991	9584	9975
45	212	272	472	635	894	1044	1173	1133	971	708	446	268	212	484	956	1591	2485	3529	4702	5835	6806	7514	7960	8228
50	122	168	327	485	739	894	1018	978	821	554	305	157	122	290	617	1102	1841	2735	3753	4731	5552	6106	6411	6568
55	61	90	205	339	585	744	863	823	671	404	194	86	61	151	356	695	1280	2024	2887	3710	4381	4785	4979	5065
60	26	38	108	207	430	594	708	668	521	261	100	41	26	64	172	379	809	1403	2111	2779	3300	3561	3661	3702
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	201	236	383	506	715	828	919	905	791	569	370	232	201	437	820	1326	2041	2869	3788	4693	5484	6053	6423	6655

(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/normal/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 are 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.

- a. Temperature/ Precipitation Tables
 1. 1971-2000 Monthly Normals
 2. Cooperative Summary of the Day
 3. National Weather Service station records
 4. 1971-2000 serially complete daily data
- b. Degree Day Table
 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
 1. Snow Climatology
 2. Cooperative Summary of the Day
- d. 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