

Climatology of the United States

No. 20

1971-2000

Station: SAVANNAH 6 SW, TN

COOP ID: 408108

Climate Division: TN 3

NWS Call Sign:

Elevation: 420 Feet Lat: 35°09N Lon: 88°19W

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	49.1	27.2	38.2	79	1952	1	45.3+	1989	-13	1985	21	25.9	1977	833	0	.0	.0	16.0	2.3	19.4	.2
Feb	54.8	30.2	42.5	84	1996	23	50.2	1976	-10	1951	2	30.3	1978	630	0	.0	.0	19.5	1.1	14.9	.1
Mar	64.7	39.7	52.2	90	1929	24	58.7	1974	10+	1943	3	46.5	1996	406	10	.0	.0	28.6	.1	8.1	.0
Apr	73.6	47.4	60.5	95	1965	25	66.6	1981	23	1940	13	55.5	1983	170	36	.0	.3	29.8	.0	2.3	.0
May	80.0	56.4	68.2	98	1937	31	72.9	1987	32+	1944	7	62.0	1976	51	150	.0	1.7	31.0	.0	@	.0
Jun	87.0	64.4	75.7	108	1952	28	79.4+	2000	40	1966	1	70.7	1974	2	324	.2	12.4	30.0	.0	.0	.0
Jul	90.5	68.1	79.3	112+	1930	29	84.6	1980	47	1947	23	76.1	1972	0	444	1.3	20.1	31.0	.0	.0	.0
Aug	90.0	66.4	78.2	108+	1930	9	82.9	1983	44	1946	31	74.9	1992	0	409	1.5	18.5	31.0	.0	.0	.0
Sep	84.0	59.8	71.9	107+	1954	4	77.6	1998	34+	1942	29	66.7	1974	21	228	.3	7.6	30.0	.0	.0	.0
Oct	74.7	47.8	61.3	97	1954	5	67.5	1984	24+	1952	22	54.6	1976	179	62	.0	.4	30.9	.0	1.7	.0
Nov	62.7	39.5	51.1	89	2000	1	57.7	1985	1	1950	25	42.1	1976	424	7	.0	.0	26.7	@	8.7	.0
Dec	52.8	31.2	42.0	79+	1951	31	51.8	1984	-10+	1989	22	30.2	1989	714	0	.0	.0	20.2	1.1	16.0	.2
Ann	72.0	48.2	60.1	112+	Jul 1930	29	84.6	Jul 1980	-13	Jan 1985	21	25.9	Jan 1977	3430	1670	3.3	61.0	324.7	4.6	71.1	.5

+ 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: 1927-2001

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

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Climatology 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: SAVANNAH 6 SW, TN

COOP ID: 408108

Climate Division: TN 3

NWS Call Sign:

Elevation: 420 Feet Lat: 35°09N

Lon: 88°19W

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	5.06	4.21	5.64	1946	7	14.08	1999	.49	1986	10.4	7.3	3.4	1.5	1.13	1.60	2.34	3.01	3.68	4.39	5.19	6.14	7.40	9.41	11.29
Feb	4.54	4.23	4.84	1948	13	9.09	1975	1.12	1978	8.9	6.9	3.3	1.3	1.62	2.05	2.67	3.19	3.68	4.19	4.74	5.39	6.21	7.48	8.64
Mar	6.04	5.34	4.68	1955	21	14.56	1980	2.31	1987	11.9	8.3	3.6	1.8	2.21	2.78	3.60	4.28	4.93	5.59	6.32	7.16	8.23	9.88	11.39
Apr	5.34	4.84	4.11	1963	29	11.21	1998	.67	1986	10.3	7.4	3.9	1.7	1.48	1.99	2.76	3.43	4.08	4.77	5.53	6.42	7.59	9.42	11.13
May	6.54	5.46	8.35	1991	26	25.15	1991	1.89	2000	10.8	8.1	4.4	1.8	1.82	2.44	3.38	4.20	5.01	5.84	6.77	7.87	9.30	11.54	13.63
Jun	4.52	4.21	3.20	1934	18	11.09	1989	.15	1988	9.1	6.4	3.1	1.7	.97	1.38	2.04	2.64	3.25	3.89	4.62	5.49	6.64	8.47	10.20
Jul	4.50	4.17	3.31	1936	3	9.11	1981	.66	1983	9.5	6.5	3.1	1.3	1.52	1.95	2.57	3.10	3.61	4.13	4.70	5.36	6.22	7.54	8.76
Aug	3.07	2.41	7.07	1970	20	8.91	1997	.29	1999	7.5	4.8	2.0	.8	.61	.89	1.34	1.76	2.17	2.62	3.13	3.74	4.54	5.84	7.06
Sep	4.13	3.41	3.83	1958	20	12.11	1977	.90	1998	7.8	5.8	2.9	1.3	.78	1.14	1.75	2.31	2.88	3.49	4.19	5.03	6.15	7.95	9.66
Oct	3.45	3.37	3.29	2001	14	7.24	1984	.04	2000	7.4	4.9	2.4	1.1	.76	1.07	1.58	2.04	2.49	2.98	3.53	4.19	5.05	6.43	7.73
Nov	5.76	5.73	5.95	1973	27	12.56	1973	1.49	1997	10.0	7.2	3.8	1.9	1.92	2.47	3.27	3.95	4.60	5.27	6.01	6.87	7.97	9.68	11.26
Dec	5.94	5.28	4.75	1993	4	14.36	1978	.78	1980	10.6	7.4	3.7	2.1	1.46	2.02	2.89	3.65	4.41	5.22	6.11	7.18	8.58	10.79	12.86
Ann	58.89	58.73	8.35	May 1991	26	25.15	May 1991	.04	Oct 2000	114.2	81.0	39.6	18.3	41.29	44.68	49.02	52.33	55.28	58.13	61.07	64.33	68.29	74.04	79.02

+ 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: 1927-2001

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

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Station: SAVANNAH 6 SW, TN

COOP ID: 408108

Climate Division: TN 3

NWS Call Sign:

Elevation: 420 Feet

Lat: 35°09N

Lon: 88°19W

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	1.5	.0	#	#	10.2	1988	7	10.3	1988	10	1988	7	1	1988	.9	.7	.2	@	@	.7	.4	.2	.1
Feb	.9	.0	#	0	4.0	1978	21	10.0	1979	5	1971	9	2	1978	.5	.3	.2	.0	.0	.1	.1	.0	.0
Mar	.1	.0	#	0	1.5	1980	1	1.5	1980	2	1980	1	#+	1999	.1	.1	.0	.0	.0	.1	.0	.0	.0
Apr	#	.0	0	0	#	1973	10	#+	1973	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	#	1991	8	#+	1991	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	3.0	1985	20	3.3	1985	2+	2000	20	#+	2000	.2	.1	@	.0	.0	@	.0	.0	.0
Ann	2.8	.0	N/A	N/A	10.2	Jan 1988	7	10.3	Jan 1988	10	Jan 1988	7	2	Feb 1978	1.7	1.2	.4	@	@	.9	.5	.2	.1

+ 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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Climate Division: TN 3

NWS Call Sign:

Elevation: 420 Feet

Lat: 35°09N

Lon: 88°19W

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	5/02	4/27	4/23	4/20	4/17	4/14	4/11	4/07	4/02
32	4/22	4/18	4/14	4/12	4/09	4/07	4/04	4/01	3/27
28	4/12	4/07	4/03	3/31	3/28	3/25	3/22	3/18	3/13
24	3/26	3/20	3/15	3/11	3/08	3/04	2/28	2/23	2/17
20	3/13	3/06	3/02	2/25	2/22	2/18	2/14	2/09	2/02
16	3/05	2/26	2/20	2/16	2/12	2/08	2/03	1/29	1/22
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	10/03	10/07	10/10	10/13	10/15	10/17	10/20	10/23	10/27
32	10/08	10/14	10/18	10/22	10/25	10/29	11/02	11/06	11/12
28	10/21	10/26	10/30	11/03	11/06	11/09	11/12	11/17	11/22
24	11/05	11/11	11/14	11/18	11/21	11/24	11/28	12/01	12/07
20	11/13	11/21	11/27	12/02	12/06	12/11	12/16	12/22	12/30
16	12/01	12/09	12/15	12/20	12/25	12/30	1/04	1/10	1/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	196	191	187	183	180	177	174	170	165
32	218	211	207	202	199	195	191	186	179
28	244	236	231	226	222	218	213	208	201
24	282	274	268	263	258	253	248	242	233
20	317	307	299	293	287	281	275	268	257
16	348	335	327	320	314	308	302	294	284

* 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	833	630	406	170	51	2	0	0	21	179	424	714	3430
60	683	493	272	82	14	0	0	0	5	94	292	569	2504
57	596	416	205	45	5	0	0	0	1	58	223	483	2032
55	538	364	166	28	3	0	0	0	0	40	183	428	1750
50	402	248	88	7	0	0	0	0	0	13	101	303	1162
32	80	23	1	0	0	0	0	0	0	0	2	42	148

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	271	318	628	856	1122	1312	1467	1432	1197	906	575	350	10434
55	16	15	80	194	412	622	754	719	507	233	66	23	3641
57	11	10	57	151	352	562	692	657	448	189	46	17	3192
60	5	3	31	98	268	472	599	564	362	132	25	10	2569
65	0	0	10	36	150	324	444	409	228	62	7	0	1670
70	0	0	1	9	67	187	292	262	121	22	1	0	962

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	134	217	435	646	901	1097	1239	1204	981	676	370	187	134	351	786	1432	2333	3430	4669	5873	6854	7530	7900	8087
45	68	132	302	497	746	947	1084	1049	831	525	247	107	68	200	502	999	1745	2692	3776	4825	5656	6181	6428	6535
50	33	69	191	356	591	797	929	894	681	376	153	54	33	102	293	649	1240	2037	2966	3860	4541	4917	5070	5124
55	10	29	108	230	436	647	774	739	531	240	79	26	10	39	147	377	813	1460	2234	2973	3504	3744	3823	3849
60	0	4	46	126	286	497	619	584	389	135	35	3	0	4	50	176	462	959	1578	2162	2551	2686	2721	2724
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	86	147	282	426	598	748	840	812	662	446	232	113	86	233	515	941	1539	2287	3127	3939	4601	5047	5279	5392

(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.

- 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