

Climatography of the United States

No. 20

1971-2000

Station: TIFTON EXP STA, GA

COOP ID: 098703

Climate Division: GA 8

NWS Call Sign:

Elevation: 380 Feet

Lat: 31° 30N

Lon: 83° 32W

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	58.7	38.2	48.5	83+	1949	12	62.6	1974	0+	1985	22	38.1	1977	531	3	.0	.0	24.9	.2	10.3	.1
Feb	62.4	40.3	51.4	85	1989	16	58.2	1990	12	1996	6	41.6	1978	389	6	.0	.0	24.8	.1	6.3	.0
Mar	69.1	47.1	58.1	90	1945	19	64.7	1997	16	1980	3	53.3	1971	237	23	.0	.0	30.1	@	1.5	.0
Apr	75.4	52.8	64.1	93+	1986	28	69.9	1999	30	1943	15	59.6	1993	90	62	.0	.4	30.0	.0	@	.0
May	82.5	61.2	71.9	99+	1941	24	76.7	1998	39	2000	1	68.1	1976	12	224	.0	4.6	31.0	.0	.0	.0
Jun	87.9	68.1	78.0	105	1931	30	82.9	1998	48	2000	1	73.7	1997	0	390	.5	13.8	30.0	.0	.0	.0
Jul	90.3	70.9	80.6	104	1932	15	83.5	1986	56	2000	26	78.0	1984	0	484	.4	21.7	31.0	.0	.0	.0
Aug	89.9	70.2	80.1	104	1938	26	83.3	1990	57+	1997	27	77.2	1997	0	467	.3	20.1	31.0	.0	.0	.0
Sep	86.4	65.9	76.2	106	1925	5	79.8	1980	42+	1967	30	73.8	1994	1	336	@	10.7	30.0	.0	.0	.0
Oct	78.3	54.8	66.6	98	1954	6	71.7	1985	30+	1957	29	60.3	1987	79	127	.0	1.2	31.0	.0	.0	.0
Nov	69.5	47.0	58.3	88+	1971	3	65.6	1985	10	1950	25	50.6	1976	236	34	.0	.0	29.6	.0	2.0	.0
Dec	61.4	40.0	50.7	84	1978	8	59.3	1971	6	1962	13	42.7	1989	453	11	.0	.0	26.6	.1	7.4	.0
Ann	76.0	54.7	65.4	106	Sep 1925	5	83.5	Jul 1986	0+	Jan 1985	22	38.1	Jan 1977	2028	2167	1.2	72.5	350.0	.4	27.5	.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: 1922-2001

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

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: TIFTON EXP STA, GA

COOP ID: 098703

Climate Division: GA 8

NWS Call Sign:

Elevation: 380 Feet Lat: 31°30N

Lon: 83°32W

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	5.31	4.85	4.04	1925	19	14.62	1991	1.29	1981	11.2	7.8	3.9	1.7	1.98	2.48	3.19	3.78	4.35	4.92	5.55	6.28	7.20	8.63	9.94
Feb	4.33	3.96	6.19	1986	11	12.79	1986	.69	1991	9.2	5.8	2.8	1.2	1.13	1.54	2.17	2.72	3.27	3.84	4.48	5.23	6.22	7.77	9.22
Mar	5.03	4.58	6.29	1944	7	12.07	1980	1.13	1999	9.7	7.0	3.4	1.7	1.40	1.88	2.60	3.23	3.85	4.50	5.21	6.05	7.15	8.87	10.48
Apr	3.48	2.72	8.24	1928	23	10.65	1973	.22	1986	7.0	4.5	2.1	1.1	.41	.69	1.18	1.66	2.18	2.75	3.43	4.26	5.39	7.25	9.05
May	3.19	2.65	4.10	1934	15	11.99	1976	.70	1992	7.9	4.7	2.2	1.0	.72	1.01	1.48	1.90	2.32	2.77	3.27	3.88	4.67	5.93	7.12
Jun	4.11	4.07	3.77	1964	25	8.57	1994	1.13	1996	10.6	7.4	2.7	1.1	1.22	1.61	2.20	2.70	3.19	3.70	4.27	4.93	5.79	7.13	8.37
Jul	4.54	4.39	3.66	1993	20	9.55	1993	1.28	1996	12.6	7.6	3.0	1.3	1.53	1.96	2.59	3.12	3.63	4.16	4.73	5.40	6.27	7.60	8.84
Aug	4.09	3.84	5.52	1936	1	8.81	1981	1.54	1997	11.7	6.6	2.5	1.2	1.39	1.78	2.34	2.82	3.28	3.76	4.27	4.87	5.65	6.85	7.95
Sep	3.47	2.66	4.37	1998	3	11.81	2000	.43	1978	9.5	5.3	2.3	1.0	.40	.67	1.15	1.64	2.15	2.73	3.40	4.24	5.37	7.25	9.07
Oct	2.58	1.78	7.32	1994	3	12.30	1994	.00	1987	6.0	3.5	1.6	.9	.06	.23	.56	.93	1.34	1.82	2.40	3.14	4.17	5.93	7.67
Nov	3.18	2.86	5.87	1985	22	7.87	1985	.29	1991	8.3	4.7	2.2	.8	.62	.91	1.38	1.81	2.24	2.71	3.23	3.87	4.71	6.06	7.35
Dec	3.68	3.39	4.10	1947	10	8.34	1997	.84	1984	8.8	5.5	2.6	1.2	1.04	1.39	1.91	2.37	2.82	3.29	3.81	4.43	5.22	6.47	7.63
Ann	46.99	47.60	8.24	Apr 1928	23	14.62	Jan 1991	.00	Oct 1987	112.5	70.4	31.3	14.2	36.10	38.28	41.02	43.08	44.90	46.64	48.43	50.39	52.75	56.14	59.05

+ 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: 1922-2001

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

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NWS Call Sign:

Elevation: 380 Feet

Lat: 31°30N

Lon: 83°32W

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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1977	16	#	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#	Feb 1977	16	#	Feb 1977	0	0	0	0	0	.0	.0	.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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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	4/08	4/02	3/28	3/24	3/21	3/17	3/13	3/09	3/03
32	3/21	3/14	3/10	3/06	3/02	2/26	2/22	2/18	2/11
28	3/09	3/02	2/25	2/20	2/16	2/12	2/08	2/03	1/27
24	2/28	2/19	2/13	2/07	2/02	1/27	1/21	1/12	0/00
20	2/19	2/09	2/01	1/25	1/17	1/06	0/00	0/00	0/00
16	1/31	1/16	12/26	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	10/28	11/02	11/07	11/10	11/14	11/17	11/21	11/25	12/01
32	11/06	11/13	11/19	11/23	11/27	12/01	12/05	12/10	12/17
28	11/16	11/26	12/02	12/08	12/14	12/19	12/25	12/31	1/10
24	12/07	12/17	12/25	12/31	1/07	1/13	1/21	1/31	0/00
20	12/16	12/28	1/06	1/15	1/24	2/05	0/00	0/00	0/00
16	1/05	1/22	2/13	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	264	255	248	243	237	232	227	220	211
32	297	287	280	275	269	264	258	251	242
28	335	321	312	305	298	291	284	276	265
24	>365	>365	>365	353	337	327	317	307	294
20	>365	>365	>365	>365	>365	>365	>365	344	322
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	531	389	237	90	12	0	0	0	1	79	236	453	2028
60	401	262	131	29	1	0	0	0	0	30	137	317	1308
57	330	196	83	11	0	0	0	0	0	14	92	246	972
55	288	159	58	5	0	0	0	0	0	9	67	205	791
50	199	85	18	0	0	0	0	0	0	2	25	122	451
32	21	1	0	0	0	0	0	0	0	0	0	4	26

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	530	542	809	963	1235	1380	1507	1490	1325	1072	788	585	12226
55	84	56	154	278	522	690	794	777	635	367	165	73	4595
57	64	38	117	224	460	630	732	715	575	311	130	52	4048
60	42	19	72	151	368	540	639	622	485	233	86	30	3287
65	3	6	23	62	224	390	484	467	336	127	34	11	2167
70	2	0	5	15	109	246	329	312	193	54	11	0	1276

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	307	370	596	758	1021	1168	1279	1261	1104	841	572	375	307	677	1273	2031	3052	4220	5499	6760	7864	8705	9277	9652
45	196	250	448	608	866	1018	1124	1106	954	686	425	249	196	446	894	1502	2368	3386	4510	5616	6570	7256	7681	7930
50	110	152	308	460	711	868	969	951	804	533	292	150	110	262	570	1030	1741	2609	3578	4529	5333	5866	6158	6308
55	56	81	188	319	556	718	814	796	654	380	182	81	56	137	325	644	1200	1918	2732	3528	4182	4562	4744	4825
60	24	33	93	195	402	568	659	641	504	241	94	39	24	57	150	345	747	1315	1974	2615	3119	3360	3454	3493
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	182	225	367	486	700	808	889	876	764	552	354	224	182	407	774	1260	1960	2768	3657	4533	5297	5849	6203	6427

(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