

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: AUGUSTA BUSH FIELD AP, GA

1971-2000

COOP ID: 090495

Climate Division: GA 6

NWS Call Sign: AGS

Elevation: 132 Feet

Lat: 33° 22N

Lon: 81° 58W

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	56.5	33.1	44.8	83	1949	11	56.7	1974	-1	1985	21	35.3	1977	617	1	.0	.0	23.0	.4	15.0	@
Feb	61.3	35.5	48.4	86	1962	28	56.1	1990	9	1973	12	40.2	1978	469	2	.0	.0	23.4	.2	11.5	.0
Mar	69.2	42.5	55.9	89	1995	23	62.2	1997	12	1980	3	50.3	1971	301	15	.0	.0	29.8	@	4.6	.0
Apr	76.7	48.1	62.4	96	1986	27	66.0	1999	26	1982	7	59.0	1982	129	52	.0	.6	29.9	.0	.9	.0
May	83.9	57.2	70.5	99+	2000	27	74.7	1998	35+	1971	4	66.7	1997	21	191	.0	5.9	31.0	.0	.0	.0
Jun	89.6	65.4	77.5	105	1952	26	81.5	1998	47+	1984	1	74.3	1972	1	385	1.1	16.0	30.0	.0	.0	.0
Jul	92.0	69.6	80.8	107	1980	13	85.5	1993	55	1951	7	76.8	1975	0	506	2.6	23.5	31.0	.0	.0	.0
Aug	90.2	68.4	79.3	108	1983	21	83.0	1999	54	1968	29	76.1	1981	0	459	1.1	19.4	31.0	.0	.0	.0
Sep	85.3	62.4	73.8	101+	1999	6	77.1	1973	36	1967	30	70.6	1981	5	285	.1	9.4	30.0	.0	.0	.0
Oct	76.5	49.6	63.1	97+	1954	6	70.4	1984	22	1952	30	56.3	1987	118	74	.0	.6	31.0	.0	.6	.0
Nov	67.8	40.9	54.4	90	1961	2	63.3	1985	11	1950	25	47.8	1976	317	15	.0	.0	29.3	.0	6.5	.0
Dec	59.1	34.7	46.9	82+	1998	7	55.4	1971	5	1981	21	38.5	2000	547	1	.0	.0	24.9	.1	13.1	.0
Ann	75.7	50.6	63.2	108	Aug 1983	21	85.5	Jul 1993	-1	Jan 1985	21	35.3	Jan 1977	2525	1986	4.9	75.4	344.3	.7	52.2	@

+ 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

009-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	4.50	4.03	2.78	1978	25	8.91	1987	.75	1981	11.0	7.6	3.2	1.2	1.59	2.02	2.63	3.15	3.64	4.15	4.70	5.34	6.16	7.43	8.59	
Feb	4.11	4.37	3.50	1985	5	7.34	1979	.95	1976	8.7	6.4	3.0	1.2	1.29	1.68	2.26	2.75	3.23	3.73	4.28	4.92	5.75	7.04	8.23	
Mar	4.61	3.90	5.31	1967	10	11.92	1980	1.02	1995	9.8	6.8	3.2	1.3	1.21	1.65	2.32	2.90	3.48	4.09	4.76	5.56	6.60	8.24	9.78	
Apr	2.94	2.33	3.16	1955	14	7.13	1998	.77	1987	7.4	4.8	2.2	.8	.62	.89	1.32	1.72	2.11	2.53	3.01	3.58	4.33	5.53	6.67	
May	3.07	2.35	4.44	1981	31	9.61	1979	.36	2000	9.0	5.7	1.8	.8	.62	.90	1.35	1.77	2.18	2.62	3.13	3.73	4.53	5.81	7.02	
Jun	4.19	4.20	3.42	1999	16	8.84	1989	.68	1984	10.1	6.4	3.1	1.4	1.17	1.56	2.17	2.69	3.21	3.75	4.34	5.04	5.96	7.39	8.73	
Jul	4.07	3.49	3.67	1979	21	11.12	1991	1.02	1987	11.2	7.1	2.5	1.1	1.10	1.49	2.07	2.59	3.09	3.62	4.21	4.90	5.81	7.23	8.56	
Aug	4.48	3.93	5.95	1964	29	11.34	1986	.65	1980	10.9	7.0	2.9	1.4	1.37	1.79	2.43	2.97	3.50	4.05	4.66	5.37	6.29	7.72	9.05	
Sep	3.59	3.12	7.30	1998	3	9.51	1975	.31	1984	7.8	4.9	2.2	.9	.46	.75	1.26	1.76	2.28	2.87	3.55	4.38	5.52	7.38	9.18	
Oct	3.20	2.56	5.32	1990	12	14.82	1990	.02	1998	6.2	3.9	2.1	1.0	.10	.23	.55	.95	1.44	2.04	2.79	3.78	5.21	7.71	10.24	
Nov	2.68	2.36	3.43	1985	22	7.76	1985	.57	1973	7.2	4.3	1.8	.8	.53	.78	1.17	1.53	1.89	2.28	2.72	3.26	3.96	5.09	6.16	
Dec	3.14	2.70	2.89	1970	16	8.65	1981	.96	1980	9.5	5.8	2.3	.7	.78	1.08	1.53	1.94	2.34	2.76	3.23	3.79	4.53	5.69	6.77	
Ann	44.58	43.70	7.30	Sep 1998	3	14.82	Oct 1990	.02	Oct 1998	108.8	70.7	30.3	12.6	34.97	36.90	39.33	41.15	42.74	44.27	45.84	47.56	49.62	52.57	55.10	

+ 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

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

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Lat: 33°22N

Lon: 81°58W

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	.3	.0	#	0	2.6	1992	19	2.6	1992	3	1992	19	#	1992	.2	.1	.0	.0	.0	.2	@	.0	.0
Feb	1.0	.0	#	0	8.0	1973	9	14.0	1973	13	1973	11	2	1973	.2	.2	.2	.1	.0	.4	.2	.1	.1
Mar	.0	.0	#	0	1.1	1980	2	1.1	1980	1	1980	3	#	1980	.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	#	1999	.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	1.0	1993	23	1.0	1993	1	1993	23	#	1993	.1	.0	.0	.0	.0	@	.0	.0	.0
Ann	1.4	.0	N/A	N/A	8.0	Feb 1973	9	14.0	Feb 1973	13	Feb 1973	11	2	Feb 1973	.5	.3	.2	.1	.0	.6	.2	.1	.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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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	4/27	4/22	4/18	4/15	4/12	4/09	4/06	4/02	3/28
32	4/15	4/09	4/05	4/02	3/30	3/27	3/23	3/19	3/14
28	4/02	3/26	3/21	3/16	3/12	3/08	3/03	2/26	2/19
24	3/13	3/06	3/01	2/25	2/21	2/17	2/13	2/08	2/01
20	3/05	2/25	2/18	2/13	2/08	2/03	1/28	1/21	1/11
16	2/13	2/04	1/29	1/23	1/16	1/09	12/26	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	10/09	10/14	10/17	10/19	10/22	10/24	10/27	10/30	11/03
32	10/20	10/26	10/31	11/03	11/07	11/10	11/14	11/18	11/24
28	11/01	11/08	11/13	11/17	11/21	11/25	11/29	12/04	12/11
24	11/13	11/21	11/27	12/03	12/08	12/13	12/18	12/24	1/02
20	12/02	12/11	12/18	12/24	12/30	1/04	1/11	1/18	1/30
16	12/18	12/27	1/04	1/10	1/17	1/25	2/09	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	210	204	199	196	192	188	185	180	174
32	246	238	231	226	221	216	211	205	196
28	279	270	264	258	253	248	242	236	227
24	317	307	301	295	289	283	277	270	261
20	>365	352	335	326	318	311	304	297	286
16	>365	>365	>365	>365	>365	348	336	327	317

* 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)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	617	469	301	129	21	1	0	0	5	118	317	547	2525
60	485	333	178	40	2	0	0	0	0	71	207	419	1735
57	402	257	123	16	0	0	0	0	0	42	147	337	1324
55	350	211	92	8	0	0	0	0	0	27	114	287	1089
50	237	118	36	1	0	0	0	0	0	8	49	182	631
32	22	1	0	0	0	0	0	0	0	0	0	10	33

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	415	465	740	911	1197	1375	1532	1490	1278	986	690	481	11560
55	22	39	121	239	485	685	819	777	588	286	108	39	4208
57	14	26	89	190	423	625	757	715	528	234	80	27	3708
60	6	12	51	127	333	535	664	622	439	163	48	14	3014
65	1	2	15	52	191	385	506	459	285	74	15	1	1986
70	0	0	2	10	85	241	355	313	165	26	3	0	1200

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	214	283	504	681	960	1143	1294	1253	1045	747	461	267	214	497	1001	1682	2642	3785	5079	6332	7377	8124	8585	8852
45	122	177	355	531	805	993	1139	1098	895	592	323	161	122	299	654	1185	1990	2983	4122	5220	6115	6707	7030	7191
50	57	96	226	384	650	843	984	943	745	439	203	86	57	153	379	763	1413	2256	3240	4183	4928	5367	5570	5656
55	26	44	125	248	496	693	829	788	595	295	115	41	26	70	195	443	939	1632	2461	3249	3844	4139	4254	4295
60	4	14	55	135	343	543	674	633	445	169	51	14	4	18	73	208	551	1094	1768	2401	2846	3015	3066	3080
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	142	193	326	439	638	774	877	859	709	490	308	174	142	335	661	1100	1738	2512	3389	4248	4957	5447	5755	5929

(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