

**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: COLUMBUS METRO AP, GA

1971-2000

COOP ID: 092166

Climate Division: GA 4

NWS Call Sign: CSG

Elevation: 392 Feet

Lat: 32° 31N

Lon: 84° 57W

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	56.9	36.6	46.8	83	1949	11	59.6	1974	-2	1985	21	35.8	1977	559	1	.0	.0	24.1	.2	12.2	@
Feb	61.6	39.0	50.3	83+	1996	23	55.5	1990	10	1996	5	41.4	1978	415	4	.0	.0	24.2	.1	7.6	.0
Mar	69.4	45.7	57.6	89+	1982	18	63.5	1997	16	1980	3	52.1	1971	252	25	.0	.0	30.0	.0	2.3	.0
Apr	76.5	51.8	64.2	93	1986	27	69.1	1999	28	1950	7	59.8	1983	94	77	.0	.4	30.0	.0	.1	.0
May	83.2	61.3	72.3	97+	1996	24	76.8	1998	39	1963	2	68.1	1976	8	234	.0	4.6	31.0	.0	.0	.0
Jun	89.5	68.8	79.2	104	1978	29	83.6	1998	44	1956	3	75.1	1997	0	429	.5	17.0	30.0	.0	.0	.0
Jul	91.7	72.3	82.0	104+	1986	31	85.3+	1993	59+	1967	15	78.6	1975	0	533	1.6	22.6	31.0	.0	.0	.0
Aug	91.0	71.5	81.3	104	2000	18	84.4	1999	57+	1952	28	78.3	1992	0	511	1.0	20.9	31.0	.0	.0	.0
Sep	86.0	66.4	76.2	100	1990	7	79.6	1980	38	1967	30	73.2	1975	3	349	@	10.5	30.0	.0	.0	.0
Oct	77.0	54.5	65.8	96	1954	5	73.3	1984	24	1952	30	59.7	1976	78	107	.0	.7	31.0	.0	.1	.0
Nov	67.6	45.7	56.7	86+	2000	3	64.3	1985	10	1950	25	48.4	1976	263	21	.0	.0	29.3	.0	2.8	.0
Dec	59.2	39.0	49.1	82+	1977	5	58.0	1971	4	1962	13	41.1	1989	482	5	.0	.0	25.6	.1	9.2	.0
Ann	75.8	54.4	65.1	104+	Aug 2000	18	85.3+	Jul 1993	-2	Jan 1985	21	35.8	Jan 1977	2154	2296	3.1	76.7	347.2	.4	34.3	@

+ 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

020-A

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Precipitation (inches)

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	4.78	4.19	3.21	1992	13	8.35	1978	1.27	1981	10.8	7.6	3.3	1.3	2.09	2.52	3.11	3.60	4.06	4.52	5.01	5.58	6.29	7.38	8.36
Feb	4.48	4.49	5.54	1981	10	7.84	1979	1.20	2000	8.9	6.5	3.3	1.5	1.51	1.93	2.56	3.08	3.59	4.11	4.68	5.34	6.20	7.52	8.74
Mar	5.75	5.49	5.38	1990	16	11.20	1980	1.38	1985	9.9	7.3	3.8	1.9	1.84	2.39	3.20	3.88	4.55	5.24	5.99	6.87	8.01	9.78	11.41
Apr	3.84	3.45	5.74	1981	1	10.69	1979	.10	1986	7.5	5.0	2.5	1.2	.56	.88	1.44	1.97	2.53	3.13	3.84	4.70	5.85	7.74	9.55
May	3.62	3.62	4.29	1957	3	7.54	1974	.78	2000	8.6	5.6	2.6	1.0	.92	1.26	1.79	2.25	2.71	3.20	3.73	4.37	5.21	6.53	7.77
Jun	3.51	2.98	3.88	1959	1	9.19	1987	.51	2000	9.1	6.2	2.4	.8	.70	1.01	1.53	2.00	2.48	2.99	3.57	4.27	5.19	6.68	8.08
Jul	5.04	4.22	5.45	1989	3	13.24	1971	2.07	1998	12.5	8.3	3.8	1.2	1.74	2.22	2.91	3.49	4.05	4.63	5.26	5.99	6.93	8.39	9.72
Aug	3.78	3.33	5.32	1977	3	10.11	1991	.80	1988	10.2	6.1	2.4	.9	.95	1.31	1.86	2.35	2.83	3.33	3.90	4.57	5.45	6.83	8.13
Sep	3.07	2.82	4.15	1971	17	6.01	1983	.22	1984	7.9	5.2	2.1	.9	.61	.88	1.33	1.75	2.17	2.61	3.12	3.73	4.54	5.84	7.08
Oct	2.33	2.08	5.00	1964	4	8.41	1995	.02	1978	5.6	3.7	1.5	.7	.17	.32	.62	.94	1.30	1.71	2.20	2.83	3.69	5.14	6.58
Nov	3.97	3.69	4.15	1992	25	11.63	1992	.88	1998	8.1	5.5	2.7	1.2	1.08	1.46	2.03	2.53	3.02	3.54	4.11	4.78	5.66	7.04	8.32
Dec	4.40	3.80	4.33	1956	23	9.38	1972	1.59	1998	9.2	6.3	2.8	1.6	1.48	1.89	2.50	3.02	3.52	4.03	4.59	5.24	6.08	7.38	8.58
Ann	48.57	49.05	5.74	Apr 1981	1	13.24	Jul 1971	.02	Oct 1978	108.3	73.3	33.2	14.2	33.39	36.29	40.03	42.87	45.41	47.88	50.43	53.26	56.70	61.71	66.05

+ 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: 1948-2001

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

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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	.5	.0	#	0	7.7	1982	13	9.7	1982	1+	1988	8	#	1988	.2	.2	@	@	.0	.2	.0	.0	.0
Feb	.6	.0	#	0	11.0	1973	9	14.0	1973	14	1973	10	1	1973	.1	.1	.1	@	@	.2	.1	.1	@
Mar	.1	.0	#	0	2.5	1993	13	2.5	1993	1	1993	13	#	1993	.1	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1971	7	#	1971	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	#	1993	.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	#	1975	23	#	1975	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.3	1993	22	1.6	1993	1	1993	23	#	1993	.1	.1	.0	.0	.0	@	.0	.0	.0
Ann	1.3	.0	N/A	N/A	11.0	Feb 1973	9	14.0	Feb 1973	14	Feb 1973	10	1	Feb 1973	.5	.5	.1	@	@	.4	.1	.1	.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	4/16	4/10	4/06	4/02	3/30	3/26	3/23	3/19	3/13
32	3/28	3/22	3/18	3/15	3/11	3/08	3/04	2/28	2/22
28	3/12	3/04	2/27	2/22	2/18	2/13	2/09	2/03	1/27
24	3/03	2/23	2/18	2/13	2/08	2/03	1/29	1/24	1/16
20	2/27	2/17	2/10	2/04	1/29	1/22	1/13	0/00	0/00
16	2/09	1/30	1/21	1/11	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	10/22	10/28	11/02	11/05	11/09	11/13	11/16	11/21	11/27
32	11/02	11/08	11/12	11/16	11/19	11/22	11/26	11/30	12/06
28	11/15	11/25	12/01	12/07	12/12	12/18	12/23	12/30	1/08
24	12/05	12/13	12/20	12/25	12/30	1/03	1/09	1/15	1/23
20	12/14	12/25	1/03	1/11	1/19	1/28	2/08	0/00	0/00
16	12/31	1/12	1/23	2/06	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	247	239	233	228	223	219	214	208	200
32	274	266	261	256	252	248	243	238	230
28	325	314	306	300	295	289	283	276	267
24	>365	346	335	327	321	314	308	300	289
20	>365	>365	>365	>365	>365	352	334	321	306
16	>365	>365	>365	>365	>365	>365	>365	>365	341

* 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	559	415	252	94	8	0	0	0	3	78	263	482	2154
60	438	286	141	29	1	0	0	0	0	38	161	362	1456
57	361	215	91	11	0	0	0	0	0	19	110	287	1094
55	313	175	64	5	0	0	0	0	0	11	82	243	893
50	215	95	21	0	0	0	0	0	0	2	32	152	517
32	21	1	0	0	0	0	0	0	0	0	0	8	30

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	473	522	799	970	1254	1421	1558	1535	1334	1052	747	543	12208
55	33	55	154	290	541	731	845	822	644	345	136	53	4649
57	21	38	118	238	479	671	783	760	584	289	104	38	4123
60	10	19	74	168	386	581	690	667	494	211	65	21	3386
65	1	4	25	77	234	429	533	511	349	107	21	5	2296
70	0	0	4	20	113	282	380	357	210	38	3	1	1408

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	263	334	561	736	1013	1191	1319	1296	1102	813	516	321	263	597	1158	1894	2907	4098	5417	6713	7815	8628	9144	9465
45	157	218	414	586	858	1041	1164	1141	952	659	373	202	157	375	789	1375	2233	3274	4438	5579	6531	7190	7563	7765
50	80	129	275	440	703	891	1009	986	802	504	243	111	80	209	484	924	1627	2518	3527	4513	5315	5819	6062	6173
55	34	60	158	295	548	741	854	831	652	352	144	55	34	94	252	547	1095	1836	2690	3521	4173	4525	4669	4724
60	7	18	78	177	396	591	699	676	502	217	71	24	7	25	103	280	676	1267	1966	2642	3144	3361	3432	3456
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	150	201	344	473	688	820	913	901	762	526	319	190	150	351	695	1168	1856	2676	3589	4490	5252	5778	6097	6287

(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