U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography 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: CUTHBERT, GA **COOP ID: 092450**

Climate Division: GA 7 **NWS Call Sign:** **Elevation: 461 Feet** **Lat: 31˚46N** **Lon: 84˚47W**

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	59.7	37.9	48.8	84	1949	12	63.1	1974	-2	1985	21	39.0	1977	517	0	.0	.0	26.3	.2	10.2	@
Feb	64.2	40.2	52.2	85	1962	28	58.1	1990	9	1996	5	43.9	1978	359	2	.0	.0	25.8	.1	6.8	.0
Mar	72.0	46.4	59.2	91	1967	11	65.7	1997	15	1980	3	54.6	1996	212	32	.0	.0	30.5	.0	2.1	.0
Apr	78.9	52.3	65.6	95	1976	23	69.5	1981	29	2001	18	61.6	1983	64	81	.0	.9	30.0	.0	@	.0
May	85.5	61.0	73.3	100	1962	28	76.0	1996	43+	1971	4	70.2	1997	2	258	.0	6.3	31.0	.0	.0	.0
Jun	90.6	67.7	79.2	105	1984	4	83.1	1981	49	1956	3	74.5	1997	0	424	.5	18.9	30.0	.0	.0	.0
Jul	92.3	70.7	81.5	105	1980	14	85.1	1986	57	1967	15	77.6	1994	0	512	1.3	23.9	31.0	.0	.0	.0
Aug	91.4	69.8	80.6	104	1968	23	82.8+	1987	56	2000	16	77.6	1994	0	484	.7	22.4	31.0	.0	.0	.0
Sep	87.5	65.3	76.4	103	1951	4	80.9	1972	41	1967	29	73.9	1994	1	342	@	11.7	30.0	.0	.0	.0
Oct	78.8	54.2	66.5	100	1954	5	72.3	1984	30	1976	29	61.2	1987	69	117	.0	.8	31.0	.0	@	.0
Nov	69.9	45.7	57.8	91	1951	1	63.8	1985	13	1950	25	51.4	1976	241	24	.0	.0	29.8	.0	3.0	.0
Dec	62.0	39.7	50.9	82	1978	7	60.1	1971	5+	1983	25	42.1	2000	451	12	.0	.0	27.7	.1	8.2	.0
Ann	77.7	54.2	66.0	105+	Jun 1984	4	85.1	Jul 1986	-2	Jan 1985	21	39.0	Jan 1977	1916	2288	2.5	84.9	354.1	.4	30.3	@

\+ 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/normals/usnormals.html

(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

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	5.60	6.07	7.60	1962	6	13.35	1991	1.45	1981
Feb	5.09	4.38	4.60	1995	11	10.51	1998	1.30	1991
Mar	5.54	5.29	4.60	1998	8	12.16	1980	.73	1997
Apr	3.81	3.70	3.71	1974	5	7.99	1975	.27	1986
May	3.68	3.03	5.18	1987	21	8.79	1987	.03	2000
Jun	4.64	4.03	4.90	1990	9	11.89	1991	.93	1979
Jul	6.27	4.93	8.74	1994	4	31.46	1994	1.58	1972
Aug	3.45	2.81	3.83	1950	31	8.93	1996	1.56	1976
Sep	3.66	2.46	5.00	1998	29	12.69	1998	.18	1978
Oct	2.57	1.96	6.00	1989	1	8.63	1994	.01	1987
Nov	3.91	3.53	5.53	1977	4	10.14	1992	.55	1990
Dec	4.14	3.56	5.05	1972	6	8.62	1982	.89	1980
Ann	52.36	51.01	8.74	Jul 1994	4	31.46	Jul 1994	.01	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	7.8	4.1	1.6
Feb	8.0	6.3	3.2	1.6
Mar	8.8	7.5	3.9	1.8
Apr	6.5	5.0	2.8	1.1
May	7.4	5.5	2.5	1.2
Jun	9.0	6.9	3.1	1.3
Jul	11.3	8.3	3.9	1.8
Aug	9.5	6.6	2.2	.7
Sep	7.2	4.9	2.4	1.2
Oct	5.3	3.6	1.7	.9
Nov	7.0	5.4	2.6	1.2
Dec	8.1	6.2	2.7	1.2
Ann	98.1	74.0	35.1	15.6

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	2.00	2.53	3.29	3.93	4.54	5.17	5.85	6.64	7.65	9.22	10.65
Feb	1.41	1.90	2.63	3.27	3.89	4.55	5.27	6.13	7.24	8.99	10.61
Mar	1.83	2.35	3.12	3.78	4.41	5.06	5.78	6.61	7.68	9.35	10.88
Apr	.71	1.05	1.60	2.12	2.65	3.22	3.86	4.65	5.68	7.35	8.94
May	.42	.70	1.21	1.72	2.27	2.88	3.60	4.49	5.70	7.70	9.65
Jun	1.07	1.51	2.19	2.79	3.40	4.04	4.76	5.62	6.75	8.55	10.24
Jul	1.22	1.78	2.70	3.55	4.41	5.33	6.38	7.64	9.31	12.00	14.55
Aug	1.26	1.59	2.05	2.45	2.82	3.20	3.61	4.09	4.70	5.65	6.51
Sep	.32	.58	1.06	1.57	2.13	2.76	3.51	4.46	5.75	7.92	10.06
Oct	.09	.20	.46	.79	1.18	1.66	2.26	3.05	4.19	6.16	8.15
Nov	.77	1.12	1.70	2.22	2.76	3.33	3.98	4.76	5.80	7.46	9.03
Dec	1.09	1.49	2.09	2.61	3.13	3.67	4.28	4.99	5.93	7.40	8.77
Ann	36.04	39.16	43.18	46.24	48.98	51.63	54.37	57.41	61.11	66.50	71.18

\+ 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

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.0	#	0
Feb	#	.0	#	0
Mar	.1	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	#	.0	0	0
Dec	#	.0	#	0
Ann	.1	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	1.0	1977	19	1.0+	1977	#	2000	28	#	2000
Feb	#	1983	8	#+	1983	#+	1996	3	#+	1996
Mar	1.5	1993	13	1.5	1993	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1975	23	#	1975	0	0	0	0	0
Dec	#	2000	22	#+	2000	#	2000	22	#	2000
Ann	1.5	Mar 1993	13	1.5	Mar 1993	#+	Dec 2000	22	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	@	@	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	@	@	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	@	@	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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	4/11	4/05	4/01	3/29	3/26	3/23	3/19	3/15	3/10
32	3/28	3/22	3/18	3/14	3/11	3/07	3/03	2/27	2/21
28	3/13	3/06	2/28	2/24	2/20	2/15	2/11	2/06	1/29
24	3/07	2/26	2/20	2/15	2/10	2/05	1/30	1/23	1/13
20	2/24	2/15	2/08	2/01	1/26	1/19	1/11	12/27	0/00
16	2/02	1/22	1/13	1/02	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	10/26	11/01	11/06	11/09	11/13	11/16	11/20	11/24	11/30
32	11/04	11/09	11/13	11/16	11/19	11/22	11/25	11/29	12/04
28	11/15	11/24	11/30	12/06	12/11	12/17	12/22	12/29	1/07
24	11/29	12/09	12/16	12/23	12/29	1/04	1/10	1/19	1/31
20	12/17	12/28	1/05	1/13	1/20	1/28	2/07	2/25	0/00
16	12/21	1/02	1/13	1/25	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	252	245	240	235	231	227	222	217	210
32	276	268	262	257	253	248	243	238	230
28	323	312	304	298	292	286	280	273	264
24	>365	345	332	324	317	310	303	295	284
20	>365	>365	>365	>365	>365	>365	334	321	308
16	>365	>365	>365	>365	>365	>365	>365	>365	336

***** 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	517	359	212	64	2	0	0	0	1	69	241	451	1916
60	384	231	113	17	0	0	0	0	0	23	138	316	1222
57	312	164	69	6	0	0	0	0	0	10	91	246	898
55	269	127	46	3	0	0	0	0	0	5	65	206	721
50	181	57	13	0	0	0	0	0	0	0	23	123	397
32	15	0	0	0	0	0	0	0	0	0	0	4	19

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	536	566	844	1007	1279	1414	1535	1507	1331	1071	773	588	12451
55	77	50	177	320	566	724	822	794	641	363	148	76	4758
57	58	31	137	263	504	664	760	732	581	305	114	54	4203
60	36	14	88	184	411	574	667	639	491	225	71	31	3431
65	0	2	32	81	258	424	512	484	342	117	24	12	2288
70	0	0	8	21	125	276	357	329	201	45	6	0	1368

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	318	383	614	782	1048	1185	1301	1278	1116	848	561	374	318	701	1315	2097	3145	4330	5631	6909	8025	8873	9434	9808
45	202	262	459	632	893	1035	1146	1123	966	693	416	251	202	464	923	1555	2448	3483	4629	5752	6718	7411	7827	8078
50	108	156	320	483	738	885	991	968	816	538	280	149	108	264	584	1067	1805	2690	3681	4649	5465	6003	6283	6432
55	54	81	197	335	583	735	836	813	666	387	168	78	54	135	332	667	1250	1985	2821	3634	4300	4687	4855	4933
60	22	36	98	205	428	585	681	658	516	243	84	36	22	58	156	361	789	1374	2055	2713	3229	3472	3556	3592
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	186	241	387	512	711	813	891	879	767	559	351	225	186	427	814	1326	2037	2850	3741	4620	5387	5946	6297	6522

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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