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: CORNELIA, GA **COOP ID: 092283**

Climate Division: GA 3 **NWS Call Sign:** **Elevation: 1,470 Feet** **Lat: 34˚31N** **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	48.7	28.0	38.4	80	1949	11	49.6	1974	-10	1985	21	26.2	1977	826	0	.0	.0	14.7	1.3	19.3	.1
Feb	53.3	30.3	41.8	78	1949	14	48.0	1990	-4	1958	17	33.3	1978	649	0	.0	.0	18.3	.8	15.1	.0
Mar	61.3	36.9	49.1	85	1974	10	55.5	1997	5	1980	3	42.7	1971	493	0	.0	.0	27.4	.1	9.4	.0
Apr	69.4	43.8	56.6	90+	1986	27	61.3	1999	18	1987	1	53.0	1973	258	6	.0	@	29.5	.0	3.0	.0
May	76.0	52.3	64.2	96	1962	19	69.0	1998	29+	1976	4	58.1	1976	108	81	.0	.1	30.9	.0	.1	.0
Jun	82.9	60.7	71.8	100+	1978	29	75.9	1981	39	1972	1	67.3	1974	9	213	@	3.3	30.0	.0	.0	.0
Jul	86.2	64.8	75.5	102+	1952	29	81.0	1993	50	1967	15	71.0	1979	3	329	.1	8.9	31.0	.0	.0	.0
Aug	84.7	63.9	74.3	99+	1983	21	78.1	1999	46	1964	13	71.2	1992	0	288	.0	4.4	31.0	.0	.0	.0
Sep	79.4	57.9	68.7	98	1954	5	72.9	1998	30	1967	30	65.4	1984	26	134	.0	.9	30.0	.0	.0	.0
Oct	70.2	45.8	58.0	92	1954	5	63.2	1985	24+	1976	29	52.5	1976	238	22	.0	.0	30.9	.0	1.9	.0
Nov	60.6	37.6	49.1	83	1974	2	58.6	1985	7	1970	24	41.6	1976	481	3	.0	.0	25.7	@	9.4	.0
Dec	51.6	30.9	41.3	76+	1998	7	49.4	1984	-1	1983	25	33.7	1989	737	0	.0	.0	18.4	.7	16.8	@
Ann	68.7	46.1	57.4	102+	Jul 1952	29	81.0	Jul 1993	-10	Jan 1985	21	26.2	Jan 1977	3828	1076	.1	17.6	317.8	2.9	75.0	.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/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	6.25	5.75	4.85	1964	25	11.31	1974	.99	1981
Feb	5.51	5.92	4.17	1998	4	10.89	1998	.85	1978
Mar	6.50	5.68	4.93	1977	30	17.11	1980	1.41	1985
Apr	4.33	3.87	3.70	1979	13	12.24	1979	1.21	1986
May	4.93	4.53	8.28	1976	29	17.10	1976	1.04	2000
Jun	4.45	3.69	4.45	1949	16	12.25	1989	.20	1990
Jul	4.79	3.85	4.07	1984	18	13.30	1971	.73	1995
Aug	5.13	4.38	5.76	1978	7	10.95	1995	.96	1997
Sep	4.16	3.62	4.56	1973	14	11.02+	1980	.11	1984
Oct	4.59	4.04	5.13	1999	11	11.95	1999	.00	2000
Nov	4.71	4.35	4.54	1948	3	11.43	1992	1.61	1981
Dec	4.86	4.44	3.71	1992	17	12.15	1983	.81	1980
Ann	60.21	60.63	8.28	May 1976	29	17.11	Mar 1980	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	8.4	4.0	2.3
Feb	9.6	7.3	3.6	2.1
Mar	10.8	8.4	4.0	1.9
Apr	8.9	6.3	2.9	1.5
May	10.1	7.6	3.4	1.3
Jun	10.3	7.3	3.0	1.2
Jul	9.7	6.9	3.3	1.4
Aug	9.8	7.5	3.2	1.4
Sep	8.6	5.7	2.9	1.3
Oct	6.4	4.7	2.7	1.6
Nov	9.3	6.5	3.3	1.6
Dec	10.8	7.6	3.5	1.4
Ann	115.5	84.2	39.8	19.0

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	2.35	2.93	3.77	4.47	5.13	5.80	6.54	7.39	8.47	10.13	11.66
Feb	1.76	2.29	3.06	3.72	4.36	5.02	5.74	6.58	7.67	9.37	10.93
Mar	1.95	2.56	3.49	4.29	5.06	5.87	6.76	7.80	9.16	11.27	13.23
Apr	1.25	1.66	2.28	2.82	3.34	3.89	4.50	5.21	6.13	7.58	8.93
May	1.57	2.04	2.73	3.32	3.89	4.49	5.14	5.90	6.88	8.41	9.82
Jun	.94	1.35	2.00	2.59	3.19	3.83	4.55	5.41	6.55	8.37	10.10
Jul	.97	1.40	2.11	2.75	3.40	4.10	4.89	5.83	7.09	9.09	11.00
Aug	1.40	1.88	2.62	3.27	3.90	4.57	5.30	6.18	7.31	9.09	10.76
Sep	.52	.84	1.43	2.01	2.63	3.31	4.11	5.09	6.42	8.61	10.73
Oct	.30	.76	1.48	2.16	2.87	3.65	4.55	5.67	7.17	9.63	12.01
Nov	1.80	2.24	2.86	3.38	3.88	4.38	4.93	5.56	6.36	7.60	8.73
Dec	1.34	1.81	2.51	3.12	3.71	4.34	5.03	5.85	6.91	8.59	10.14
Ann	44.52	47.60	51.53	54.49	57.11	59.64	62.24	65.10	68.56	73.55	77.85

\+ 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
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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	1.5	.0	#	0
Feb	.2	.0	0	0
Mar	1.5	.1	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
Ann	3.2	.1	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	8.0	1987	22	8.0	1987	#	1987	11	#	1987
Feb	1.0	1984	6	1.0	1984	0	0	0	0	0
Mar	8.0	1971	26	8.0	1971	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	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1993	23	#	1993	#	1993	23	#	1993
Ann	8.0+	Jan 1987	22	8.0+	Jan 1987	#+	Dec 1993	23	#+	Dec 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9	-9.9

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	5/15	5/07	5/02	4/27	4/23	4/19	4/14	4/09	4/02
32	5/05	4/28	4/22	4/18	4/13	4/09	4/04	3/30	3/22
28	4/16	4/10	4/05	4/01	3/29	3/25	3/21	3/17	3/11
24	4/05	3/29	3/23	3/18	3/14	3/09	3/04	2/27	2/19
20	3/21	3/12	3/05	2/27	2/22	2/16	2/11	2/04	1/26
16	3/08	2/28	2/21	2/16	2/11	2/06	1/31	1/25	1/16

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	9/27	10/03	10/06	10/10	10/13	10/15	10/19	10/22	10/28
32	10/08	10/14	10/19	10/22	10/26	10/30	11/02	11/07	11/13
28	10/18	10/25	10/30	11/03	11/07	11/11	11/16	11/21	11/28
24	11/02	11/10	11/16	11/21	11/26	11/30	12/05	12/11	12/19
20	11/11	11/22	11/30	12/07	12/13	12/19	12/26	1/03	1/14
16	11/28	12/09	12/16	12/23	12/29	1/04	1/10	1/18	1/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	202	192	184	178	172	166	159	152	141
32	227	216	208	201	195	188	182	174	162
28	253	242	235	229	223	217	211	203	193
24	293	280	271	264	256	249	241	232	220
20	337	320	309	300	292	284	275	265	251
16	>365	339	327	319	313	307	300	293	283

***** 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	826	649	493	258	108	9	3	0	26	238	481	737	3828
60	677	509	349	136	42	1	0	0	4	130	342	583	2773
57	590	428	268	81	20	0	0	0	1	83	266	498	2235
55	533	376	219	53	11	0	0	0	0	59	220	440	1911
50	397	252	122	13	1	0	0	0	0	20	127	306	1238
32	79	18	2	0	0	0	0	0	0	0	2	33	134

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	276	292	531	738	997	1194	1349	1311	1099	807	515	319	9428
55	17	7	36	102	295	504	636	598	409	153	42	13	2812
57	12	3	22	69	241	444	574	536	350	115	28	8	2402
60	7	0	11	34	171	355	481	443	263	69	14	1	1849
65	0	0	0	6	81	213	329	288	134	22	3	0	1076
70	0	0	0	0	28	99	190	145	45	4	0	0	511

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	107	168	344	534	776	963	1111	1073	868	577	309	151	107	275	619	1153	1929	2892	4003	5076	5944	6521	6830	6981
45	56	90	220	386	621	813	956	918	718	424	191	76	56	146	366	752	1373	2186	3142	4060	4778	5202	5393	5469
50	23	39	120	255	467	663	801	763	568	280	105	31	23	62	182	437	904	1567	2368	3131	3699	3979	4084	4115
55	1	11	56	142	319	513	646	608	421	157	44	8	1	12	68	210	529	1042	1688	2296	2717	2874	2918	2926
60	0	0	13	61	185	363	491	453	275	68	8	0	0	0	13	74	259	622	1113	1566	1841	1909	1917	1917
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	64	107	218	333	498	657	770	741	571	355	186	85	64	171	389	722	1220	1877	2647	3388	3959	4314	4500	4585

(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