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: GREENVILLE, GA **COOP ID: 093915**

Climate Division: GA 4 **NWS Call Sign:** **Elevation: 960 Feet** **Lat: 33˚02N** **Lon: 84˚44W**

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	54.9	30.2	42.6	81	1985	1	55.5	1974	-3+	1966	30	31.3	1977	700	0	.0	.0	23.8	.4	15.6	.1
Feb	59.9	32.4	46.2	80+	1999	12	52.9	1990	4	1958	17	37.9	1978	527	0	.0	.0	23.8	.2	12.6	.0
Mar	67.2	39.3	53.3	90	1985	8	59.0	1997	10	1980	3	47.5	1971	372	9	.0	@	30.1	.0	6.5	.0
Apr	74.4	45.6	60.0	91+	1986	28	66.0	1999	22	1971	1	53.8	1983	182	32	.0	.2	30.0	.0	2.6	.0
May	81.0	55.4	68.2	97+	1962	19	73.1	2000	36+	1986	5	64.5	1981	43	144	.0	2.3	31.0	.0	.0	.0
Jun	87.5	63.5	75.5	102	1978	25	79.4	1998	41	1972	1	71.8	1997	1	316	.3	12.6	30.0	.0	.0	.0
Jul	90.3	67.4	78.9	110	1993	30	82.1	1993	44	1988	7	76.5	1984	0	429	1.1	15.5	31.0	.0	.0	.0
Aug	89.4	66.5	78.0	112	1983	20	81.2	1999	50+	1968	31	75.9	1992	0	402	.6	16.9	31.0	.0	.0	.0
Sep	83.7	60.7	72.2	103	1984	14	75.9	1980	36	1967	30	69.7	1975	8	223	@	6.5	30.0	.0	.0	.0
Oct	74.8	48.3	61.6	91	1981	1	67.5	1984	23	1976	29	54.9	1987	160	54	.0	.2	31.0	.0	.9	.0
Nov	65.9	39.5	52.7	86	1961	2	59.5	1985	15+	1984	7	45.3	1976	378	7	.0	.0	29.1	.0	6.6	.0
Dec	56.5	32.7	44.6	80	1971	16	52.4	1971	-2	1962	13	37.6	2000	632	0	.0	.0	25.7	.1	13.0	.0
Ann	73.8	48.5	61.2	112	Aug 1983	20	82.1	Jul 1993	-3+	Jan 1966	30	31.3	Jan 1977	3003	1616	2.0	54.2	346.5	.7	57.8	.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: 1957-2001

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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	4.84	5.15	2.50+	2000	10	7.97	1972	1.21	1981
Feb	4.99	5.03	4.43	1961	25	9.30	1981	1.21	2000
Mar	5.45	4.90	6.00	1980	8	13.15	1980	1.14	1987
Apr	4.11	3.46	5.00	1975	3	11.06	1975	.00	1987
May	3.78	3.43	4.40	1967	22	9.95	1991	.52	2000
Jun	3.72	3.35	3.14	1972	20	10.30	1989	.15	1988
Jul	4.38	4.04	2.65	1989	3	9.47	1994	1.14	1980
Aug	3.93	3.53	8.35	1957	19	9.09	1971	1.32	1983
Sep	3.16	3.06	3.80	1988	17	8.64	1988	.10	1984
Oct	2.70	2.59	8.00	1965	1	5.65	1995	.15	1973
Nov	3.73	3.26	2.80	1986	26	9.10	1992	1.03	1981
Dec	4.66	4.38	3.22	1972	21	10.67	1972	1.16	1994
Ann	49.45	47.41	8.35	Aug 1957	19	13.15	Mar 1980	.00	Apr 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.8	5.4	2.5	1.2
Feb	8.3	6.6	3.6	1.4
Mar	8.9	7.1	3.8	2.0
Apr	7.0	5.7	2.7	1.0
May	9.6	6.6	2.6	1.0
Jun	8.1	5.2	2.0	.9
Jul	9.7	7.4	3.2	1.2
Aug	6.2	5.0	2.1	1.1
Sep	5.2	4.0	1.5	.7
Oct	5.7	3.6	1.6	.7
Nov	7.9	5.6	2.9	1.2
Dec	9.3	6.5	3.3	1.5
Ann	92.7	68.7	31.8	13.9

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	2.10	2.53	3.14	3.64	4.10	4.57	5.08	5.66	6.39	7.50	8.50
Feb	1.77	2.24	2.92	3.49	4.04	4.60	5.21	5.92	6.83	8.24	9.53
Mar	1.44	1.95	2.74	3.44	4.12	4.84	5.63	6.58	7.81	9.75	11.56
Apr	.46	.96	1.65	2.24	2.84	3.48	4.20	5.07	6.22	8.06	9.81
May	.91	1.26	1.81	2.30	2.79	3.31	3.89	4.57	5.47	6.90	8.25
Jun	.61	.93	1.47	1.98	2.51	3.08	3.74	4.54	5.61	7.34	9.00
Jul	1.33	1.75	2.37	2.90	3.42	3.96	4.55	5.25	6.15	7.56	8.86
Aug	1.51	1.87	2.39	2.83	3.24	3.66	4.11	4.64	5.30	6.33	7.27
Sep	.77	1.07	1.53	1.94	2.34	2.77	3.25	3.82	4.57	5.76	6.87
Oct	.28	.48	.85	1.23	1.63	2.09	2.63	3.29	4.21	5.72	7.20
Nov	1.37	1.72	2.22	2.64	3.04	3.45	3.90	4.42	5.08	6.10	7.03
Dec	1.47	1.91	2.57	3.13	3.67	4.23	4.85	5.57	6.50	7.95	9.29
Ann	34.88	37.69	41.29	44.03	46.46	48.82	51.25	53.94	57.21	61.95	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
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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.0	0	0	.0	0	#	1993	13	#	1993	.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	.0	N/A	N/A	.0	0	0	.0	0	#	Mar 1993	13	#	Mar 1993	.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	5/03	4/27	4/23	4/19	4/16	4/13	4/09	4/05	3/30
32	4/25	4/19	4/15	4/11	4/08	4/05	4/01	3/28	3/23
28	4/11	4/04	3/29	3/25	3/20	3/16	3/11	3/06	2/26
24	3/27	3/18	3/11	3/06	3/01	2/23	2/18	2/11	2/02
20	3/10	3/01	2/23	2/18	2/13	2/08	2/03	1/28	1/19
16	3/01	2/21	2/14	2/08	2/03	1/28	1/22	1/13	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	10/05	10/11	10/16	10/19	10/23	10/27	10/30	11/04	11/10
32	10/15	10/22	10/27	10/31	11/04	11/08	11/13	11/18	11/25
28	11/03	11/10	11/15	11/19	11/23	11/27	12/01	12/06	12/13
24	11/05	11/15	11/23	11/29	12/05	12/10	12/16	12/24	1/03
20	11/28	12/07	12/14	12/20	12/26	12/31	1/06	1/13	1/22
16	12/05	12/17	12/26	1/02	1/10	1/17	1/26	2/07	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	216	207	200	194	189	184	178	172	162
32	234	226	219	214	209	205	199	193	185
28	278	267	260	253	247	241	234	226	216
24	315	300	291	283	276	269	262	253	241
20	362	341	329	320	312	305	297	287	274
16	>365	>365	>365	358	340	328	317	306	291

***** 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	700	527	372	182	43	1	0	0	8	160	378	632	3003
60	556	393	239	91	11	0	0	0	1	79	247	486	2103
57	471	314	173	53	4	0	0	0	0	46	181	400	1642
55	418	265	136	34	2	0	0	0	0	30	144	346	1375
50	299	160	63	9	0	0	0	0	0	8	70	227	836
32	43	5	0	0	0	0	0	0	0	0	0	17	65

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	371	402	660	840	1123	1305	1452	1425	1206	916	620	408	10728
55	32	17	83	183	412	615	739	712	516	233	73	24	3639
57	24	11	58	142	352	555	677	650	456	187	51	16	3179
60	15	5	31	91	266	465	584	557	366	127	27	9	2543
65	0	0	9	32	144	316	429	402	223	54	7	0	1616
70	0	0	0	8	59	175	274	248	104	16	0	0	884

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	208	271	485	654	918	1099	1193	1201	981	716	438	246	208	479	964	1618	2536	3635	4828	6029	7010	7726	8164	8410
45	112	164	338	505	763	949	1038	1046	831	562	300	139	112	276	614	1119	1882	2831	3869	4915	5746	6308	6608	6747
50	55	87	210	358	608	799	883	891	681	408	184	68	55	142	352	710	1318	2117	3000	3891	4572	4980	5164	5232
55	26	36	116	227	453	649	728	736	531	266	95	31	26	62	178	405	858	1507	2235	2971	3502	3768	3863	3894
60	0	8	47	120	302	499	573	581	383	141	38	10	0	8	55	175	477	976	1549	2130	2513	2654	2692	2702
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	139	188	323	434	614	751	815	823	660	462	282	159	139	327	650	1084	1698	2449	3264	4087	4747	5209	5491	5650

(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

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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