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: MONTICELLO, GA **COOP ID: 095988**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 530 Feet** **Lat: 33˚19N** **Lon: 83˚42W**

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	53.9	29.9	41.9	81	1975	31	55.6	1974	-7	1985	21	30.1	1977	720	0	.0	.0	21.4	.6	14.7	.1
Feb	58.6	32.0	45.3	82+	1989	17	51.7	1976	7	1996	5	37.5	1978	552	0	.0	.0	22.5	.2	11.1	.0
Mar	66.9	39.0	53.0	89	1974	11	58.4	1997	12	1980	3	47.1	1996	378	5	.0	.0	29.5	@	4.8	.0
Apr	74.3	46.4	60.4	93	1986	27	65.4	1981	27+	1956	21	54.6	1983	170	31	.0	.2	29.9	.0	.7	.0
May	81.0	55.2	68.1	97	1962	29	72.3	1975	37	1997	11	64.1	1997	43	139	.0	2.6	31.0	.0	.0	.0
Jun	87.3	63.9	75.6	103+	1978	29	80.3	1981	47	1972	1	71.6	1997	2	320	.1	12.0	30.0	.0	.0	.0
Jul	90.4	67.8	79.1	103	1986	19	83.1	1986	55	1967	15	76.2	1994	0	436	.9	19.6	31.0	.0	.0	.0
Aug	89.1	66.7	77.9	103+	2000	19	82.9	1980	54+	1997	24	74.3	1992	0	400	.7	15.9	31.0	.0	.0	.0
Sep	84.0	60.8	72.4	99	1980	16	79.0	1980	41+	1967	30	69.1	1989	12	233	.0	6.7	30.0	.0	.0	.0
Oct	74.7	48.4	61.6	97	1954	6	67.8	1984	24+	2001	30	56.1	1976	157	49	.0	.4	31.0	.0	.5	.0
Nov	65.7	39.2	52.5	87+	1961	5	60.1	1985	6	1950	25	46.0	1976	386	9	.0	.0	29.1	.0	6.0	.0
Dec	56.3	31.8	44.1	79	1970	1	52.1	1984	2+	1983	25	35.7	2000	650	0	.0	.0	24.1	.2	12.6	.0
Ann	73.5	48.4	61.0	103+	Aug 2000	19	83.1	Jul 1986	-7	Jan 1985	21	30.1	Jan 1977	3070	1622	1.7	57.4	340.5	1.0	50.4	.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

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

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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	4.77	5.08	2.78	2000	10	7.91	1974	1.20	1981
Feb	4.55	4.38	4.08	1981	11	8.83	1979	.70	1978
Mar	5.48	4.85	4.48	1990	17	11.72+	1980	.86	1985
Apr	3.61	3.06	5.52	1953	30	8.57	1979	.72	1987
May	3.45	3.21	6.03	1976	15	11.73	1976	.57	1987
Jun	3.51	2.84	3.75	1972	20	7.92	1989	.14	1990
Jul	4.54	3.90	4.00	1994	5	11.85	1994	.44	1986
Aug	4.20	3.88	4.10	1974	8	9.58	1974	.89	1997
Sep	3.14	2.87	4.10	2000	1	7.03	2000	.00	1984
Oct	2.90	2.43	5.65	1964	5	7.08	1975	.00	1991
Nov	3.52	3.02	4.03	1948	27	8.13	1983	.41	1981
Dec	3.81	3.50	4.00	1997	24	7.99	1981	1.03	1980
Ann	47.48	46.27	6.03	May 1976	15	11.85	Jul 1994	.00+	Oct 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	7.8	3.5	1.6
Feb	7.2	6.4	3.3	1.4
Mar	8.1	6.9	4.0	1.7
Apr	6.2	5.1	2.4	1.0
May	6.9	5.6	2.2	1.0
Jun	7.3	6.1	2.5	.8
Jul	8.3	6.7	3.0	1.4
Aug	7.1	5.9	2.7	1.4
Sep	6.5	5.1	2.3	.8
Oct	4.9	3.9	1.7	.9
Nov	6.7	5.5	2.6	1.0
Dec	8.0	6.2	3.0	.8
Ann	86.2	71.2	33.2	13.8

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	1.82	2.26	2.90	3.43	3.93	4.44	5.00	5.64	6.46	7.71	8.86
Feb	1.16	1.59	2.25	2.83	3.41	4.02	4.69	5.50	6.54	8.20	9.75
Mar	1.53	2.05	2.84	3.53	4.20	4.90	5.68	6.60	7.79	9.66	11.41
Apr	.66	.98	1.51	2.00	2.50	3.04	3.66	4.40	5.39	6.99	8.50
May	.76	1.08	1.58	2.04	2.50	2.99	3.53	4.19	5.05	6.43	7.73
Jun	.60	.91	1.42	1.90	2.40	2.93	3.54	4.28	5.27	6.86	8.38
Jul	.86	1.26	1.93	2.54	3.17	3.84	4.61	5.53	6.76	8.73	10.61
Aug	1.10	1.49	2.10	2.64	3.17	3.72	4.34	5.07	6.02	7.52	8.93
Sep	.29	.65	1.17	1.63	2.10	2.61	3.18	3.88	4.81	6.32	7.76
Oct	.23	.54	1.01	1.44	1.88	2.36	2.91	3.58	4.49	5.96	7.37
Nov	.93	1.26	1.77	2.22	2.66	3.12	3.64	4.24	5.04	6.28	7.45
Dec	1.29	1.65	2.18	2.62	3.05	3.49	3.98	4.54	5.26	6.38	7.41
Ann	32.20	35.10	38.85	41.72	44.28	46.77	49.35	52.21	55.70	60.78	65.20

\+ 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	.3	.0	0	0
Feb	1.0	.0	#	0
Mar	.3	.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
Nov	.0	.0	0	0
Dec	#	.0	#	0
Ann	1.6	.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	4.0	1992	19	4.0	1992	0	0	0	0	0
Feb	15.0	1973	10	15.0	1973	#+	1999	24	#+	1999
Mar	4.0	1983	25	4.0	1983	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	#	1993	31	#	1993	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1996	19	#+	1996	#	1996	19	#	1996
Ann	15.0	Feb 1973	10	15.0	Feb 1973	#+	Feb 1999	24	#+	Feb 1999

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.1	.0	.0
Feb	.1	.1	.1	.1	.1
Mar	.1	.1	.1	.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	.3	.3	.3	.1	.1

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	4/21	4/16	4/12	4/08	4/05	4/02	3/30	3/26	3/21
32	4/11	4/05	4/01	3/28	3/25	3/21	3/18	3/13	3/07
28	3/23	3/16	3/10	3/06	3/01	2/25	2/21	2/15	2/08
24	3/12	3/04	2/26	2/22	2/17	2/13	2/08	2/03	1/26
20	3/04	2/23	2/17	2/12	2/07	2/01	1/26	1/18	0/00
16	2/16	2/06	1/30	1/22	1/13	12/29	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	10/14	10/20	10/24	10/28	10/31	11/04	11/07	11/12	11/18
32	10/24	10/30	11/03	11/07	11/10	11/14	11/18	11/22	11/28
28	11/03	11/10	11/16	11/20	11/25	11/29	12/04	12/09	12/17
24	11/22	11/30	12/06	12/12	12/17	12/22	12/27	1/02	1/10
20	12/05	12/13	12/19	12/24	12/28	1/03	1/08	1/16	0/00
16	12/15	12/23	12/29	1/04	1/11	1/23	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	232	224	218	213	208	203	198	192	184
32	258	248	241	235	230	224	219	212	202
28	301	290	281	274	268	261	254	245	234
24	335	321	313	306	299	293	286	278	267
20	>365	>365	341	331	324	317	310	303	292
16	>365	>365	>365	>365	>365	>365	335	323	310

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	720	552	378	170	43	2	0	0	12	157	386	650	3070
60	576	413	241	80	10	0	0	0	2	74	257	502	2155
57	491	334	172	44	3	0	0	0	0	42	192	415	1693
55	437	282	133	27	1	0	0	0	0	26	154	359	1419
50	316	169	58	6	0	0	0	0	0	7	80	237	873
32	50	5	0	0	0	0	0	0	0	0	0	18	73

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	357	377	650	851	1119	1308	1459	1423	1212	915	614	391	10676
55	31	11	70	187	407	618	746	710	522	228	78	20	3628
57	23	6	47	144	347	558	684	648	462	182	55	13	3169
60	14	1	23	91	261	468	591	555	373	121	30	7	2535
65	0	0	5	31	139	320	436	400	233	49	9	0	1622
70	0	0	0	7	56	184	282	247	118	14	1	0	909

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	204	273	485	678	934	1112	1254	1220	1020	731	448	246	204	477	962	1640	2574	3686	4940	6160	7180	7911	8359	8605
45	115	169	341	529	779	962	1099	1065	870	576	310	142	115	284	625	1154	1933	2895	3994	5059	5929	6505	6815	6957
50	56	94	219	384	624	812	944	910	720	424	198	72	56	150	369	753	1377	2189	3133	4043	4763	5187	5385	5457
55	25	41	118	249	469	662	789	755	570	280	103	31	25	66	184	433	902	1564	2353	3108	3678	3958	4061	4092
60	2	7	54	138	315	512	634	600	422	155	43	4	2	9	63	201	516	1028	1662	2262	2684	2839	2882	2886
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	125	175	309	434	621	765	860	847	695	465	281	151	125	300	609	1043	1664	2429	3289	4136	4831	5296	5577	5728

(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