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: U OF GA PLANT SCI FARM, GA **COOP ID: 098950**

Climate Division: GA 2 **NWS Call Sign:** **Elevation: 840 Feet** **Lat: 33˚52N** **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	52.3	31.6	42.0	78	1975	30	53.6	1974	-1	1982	11	31.8	1977	714	0	.0	.0	19.0	.8	16.0	@
Feb	57.4	33.9	45.7	79+	1996	27	52.0	1976	6	1996	5	38.5	1978	541	0	.0	.0	20.9	.3	12.0	.0
Mar	65.3	40.8	53.1	87	1974	10	58.7	1997	9	1980	3	47.3	1996	378	9	.0	.0	29.0	.1	5.8	.0
Apr	73.8	47.6	60.7	94	1986	27	66.3	1981	26	1987	1	56.0	1997	163	32	.0	.2	29.9	.0	.8	.0
May	81.4	56.7	69.1	96	2000	26	72.7	1975	38	1989	8	64.1	1997	32	158	.0	2.3	31.0	.0	.0	.0
Jun	88.1	64.7	76.4	102	1978	28	80.8	1981	38	1971	15	72.4	1997	1	343	.2	11.5	30.0	.0	.0	.0
Jul	91.1	68.7	79.9	105	1977	8	84.4	1993	56	1999	12	76.8	1994	0	461	1.2	18.8	31.0	.0	.0	.0
Aug	89.4	67.7	78.6	104	1983	21	82.4	1983	55+	1992	29	75.2	1992	0	420	.7	14.3	31.0	.0	.0	.0
Sep	83.7	61.7	72.7	98	1980	3	78.0	1980	41	1974	24	69.8	2000	8	240	.0	5.2	30.0	.0	.0	.0
Oct	74.4	49.9	62.2	90	1981	1	69.2	1984	25	2001	28	57.0	1987	146	57	.0	@	30.9	.0	.4	.0
Nov	64.6	41.5	53.1	84+	2000	4	61.6	1985	18	1976	30	47.4	1976	367	8	.0	.0	28.4	.0	6.4	.0
Dec	55.2	34.0	44.6	78+	2001	9	52.9	1984	0	1983	25	35.4	2000	633	0	.0	.0	22.1	.4	14.0	@
Ann	73.1	49.9	61.5	105	Jul 1977	8	84.4	Jul 1993	-1	Jan 1982	11	31.8	Jan 1977	2983	1728	2.1	52.3	333.2	1.6	55.4	.0

\+ 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: 1971-2001

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

Issue Date: February 2004

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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	5.15	4.85	2.93	1972	10	7.73	1996	.81	1981
Feb	4.52	4.73	3.15	1982	3	8.43	1998	.82	1978
Mar	5.26	4.78	3.75	1976	16	11.11	1980	1.19	1985
Apr	3.64	3.17	4.40	1979	13	10.10	1979	1.03	1986
May	3.99	3.43	5.53	1976	15	11.46	1976	.67	1988
Jun	3.92	3.68	4.35	1994	27	12.50	1994	.78	1979
Jul	4.05	3.47	5.21	2001	25	9.62	1990	.54	1983
Aug	4.04	3.77	4.90	1994	17	9.83	1992	.48	1973
Sep	4.12	3.90	4.53	1994	18	10.04	1992	.50	1984
Oct	3.18	2.67	3.20	1995	4	7.97	1977	.28	1991
Nov	4.12	3.65	4.80	1977	5	8.87	1992	1.37	1990
Dec	4.02	3.41	4.62	1972	15	9.42	1972	.83	1988
Ann	50.01	50.38	5.53	May 1976	15	12.50	Jun 1994	.28	Oct 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.8	8.1	4.0	1.5
Feb	10.6	6.9	3.3	1.3
Mar	12.1	8.1	3.5	1.7
Apr	8.5	5.8	2.3	1.0
May	9.9	6.7	2.6	1.1
Jun	10.0	6.5	2.8	1.0
Jul	10.6	6.7	2.7	1.2
Aug	9.5	6.4	2.8	1.3
Sep	9.3	6.3	2.8	1.2
Oct	6.9	4.3	1.9	1.0
Nov	9.9	6.1	3.0	1.2
Dec	11.1	6.4	3.0	1.1
Ann	121.2	78.3	34.7	14.6

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	2.06	2.53	3.20	3.76	4.29	4.82	5.40	6.06	6.91	8.20	9.38
Feb	1.54	1.97	2.59	3.12	3.63	4.15	4.71	5.38	6.22	7.54	8.75
Mar	1.69	2.19	2.93	3.56	4.16	4.79	5.48	6.28	7.32	8.93	10.41
Apr	.94	1.29	1.81	2.28	2.74	3.22	3.76	4.39	5.22	6.53	7.76
May	1.02	1.39	1.97	2.49	2.99	3.53	4.12	4.82	5.74	7.20	8.56
Jun	1.10	1.48	2.04	2.53	3.01	3.51	4.06	4.72	5.57	6.90	8.14
Jul	.79	1.15	1.75	2.29	2.85	3.44	4.11	4.93	6.00	7.73	9.37
Aug	.96	1.33	1.92	2.45	2.98	3.53	4.15	4.90	5.87	7.41	8.86
Sep	.91	1.29	1.90	2.44	2.99	3.57	4.22	5.00	6.03	7.67	9.21
Oct	.31	.54	.98	1.42	1.90	2.44	3.08	3.88	4.97	6.79	8.57
Nov	1.53	1.92	2.47	2.93	3.37	3.82	4.31	4.87	5.60	6.71	7.72
Dec	1.26	1.64	2.21	2.70	3.17	3.65	4.19	4.81	5.62	6.88	8.05
Ann	36.38	39.04	42.43	45.00	47.28	49.47	51.74	54.23	57.26	61.63	65.40

\+ 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: 1971-2001
(3) Derived from 1971-2000 serially complete daily data

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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	1.4	.0	0	0	4.0	1982	14	5.0	1982	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Feb	.5	.0	0	0	3.8	1980	6	3.8	1980	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Mar	1.0	.0	0	0	7.0	1983	24	7.0	1983	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Ann	2.9	.0	N/A	N/A	7.0	Mar 1983	24	7.0	Mar 1983	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.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	4/25	4/20	4/17	4/14	4/11	4/09	4/06	4/02	3/29
32	4/13	4/08	4/05	4/02	3/30	3/27	3/23	3/20	3/15
28	4/03	3/27	3/22	3/17	3/13	3/09	3/05	2/28	2/21
24	3/12	3/05	2/27	2/23	2/19	2/14	2/10	2/04	1/28
20	3/08	2/28	2/22	2/17	2/12	2/07	2/02	1/27	1/19
16	2/27	2/18	2/11	2/04	1/29	1/23	1/14	12/30	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	10/09	10/14	10/18	10/21	10/24	10/27	10/31	11/03	11/09
32	10/22	10/27	10/31	11/03	11/06	11/10	11/13	11/17	11/22
28	11/02	11/08	11/13	11/17	11/20	11/24	11/27	12/02	12/08
24	11/20	11/28	12/03	12/08	12/13	12/17	12/22	12/28	1/04
20	12/03	12/11	12/17	12/22	12/27	1/01	1/06	1/12	1/20
16	12/08	12/20	12/29	1/06	1/14	1/22	2/02	2/21	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	215	208	203	199	195	191	187	182	175
32	242	235	230	225	221	217	213	208	200
28	273	266	260	256	251	247	242	237	229
24	326	316	309	302	296	290	284	277	266
20	350	337	329	322	316	310	303	295	285
16	>365	>365	>365	>365	>365	333	322	313	302

***** 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	714	541	378	163	32	1	0	0	8	146	367	633	2983
60	567	401	245	75	6	0	0	0	1	68	238	487	2088
57	481	322	179	41	2	0	0	0	0	38	174	402	1639
55	425	270	141	25	0	0	0	0	0	23	138	348	1370
50	298	156	66	5	0	0	0	0	0	6	67	230	828
32	36	2	0	0	0	0	0	0	0	0	0	18	56

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	346	385	653	860	1149	1332	1484	1443	1222	934	632	407	10847
55	21	9	81	195	436	642	771	730	532	244	80	24	3765
57	15	5	57	150	375	582	709	668	472	196	56	16	3301
60	9	0	30	95	287	492	616	575	383	134	30	9	2660
65	0	0	9	32	158	343	461	420	240	57	8	0	1728
70	0	0	1	7	67	202	306	266	120	17	1	0	987

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	161	229	442	632	911	1096	1237	1191	981	699	402	212	161	390	832	1464	2375	3471	4708	5899	6880	7579	7981	8193
45	81	132	303	483	756	946	1082	1036	831	544	273	122	81	213	516	999	1755	2701	3783	4819	5650	6194	6467	6589
50	34	64	184	339	602	796	927	881	681	393	161	56	34	98	282	621	1223	2019	2946	3827	4508	4901	5062	5118
55	10	24	98	213	449	646	772	726	531	252	82	26	10	34	132	345	794	1440	2212	2938	3469	3721	3803	3829
60	0	1	38	111	297	496	617	571	382	132	32	4	0	1	39	150	447	943	1560	2131	2513	2645	2677	2681
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	90	145	274	401	601	745	845	824	666	440	244	123	90	235	509	910	1511	2256	3101	3925	4591	5031	5275	5398

(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.
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