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: GLENNVILLE, GA **COOP ID: 093754**

Climate Division: GA 9 **NWS Call Sign:** **Elevation: 170 Feet** **Lat: 31˚56N** **Lon: 81˚56W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Extremes Year	Extremes Day	Extremes Highest Month(1) Mean	Extremes Year	Extremes Lowest Daily(2)	Extremes Year	Extremes Day	Extremes Lowest Month(1) Mean	Extremes Year	Degree Days (1) Base Temp 65 Heating	Degree Days (1) Base Temp 65 Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	60.3	38.0	49.2	83+	1975	30	63.4	1974	1	1985	21	39.5	1977	509	3	.0	.0	26.8	@	9.0	.0
Feb	63.9	39.8	51.9	85+	1980	23	58.3	1990	14+	1996	5	42.8	1978	374	6	.0	.0	26.0	.1	6.1	.0
Mar	70.6	45.9	58.3	93	1935	22	65.5	1997	17	1980	3	53.3	1971	233	24	.0	@	30.7	.0	1.6	.0
Apr	77.3	52.3	64.8	97	1986	27	70.0	1999	31	1987	1	60.7	1993	75	69	.0	1.3	30.0	.0	@	.0
May	84.3	60.9	72.6	103	1941	30	76.0	2000	40	1971	4	69.3	1992	7	242	.0	6.7	31.0	.0	.0	.0
Jun	89.7	68.3	79.0	110	2001	22	83.6	1998	52+	1984	2	75.4	1972	0	419	1.0	17.9	30.0	.0	.0	.0
Jul	92.1	71.2	81.7	106+	2000	21	85.5	1986	59+	1967	16	78.5	1975	0	516	1.7	24.3	31.0	.0	.0	.0
Aug	90.4	70.5	80.5	105	1954	17	83.8	1999	52	1986	30	77.8	1976	0	480	.5	20.7	31.0	.0	.0	.0
Sep	86.2	66.7	76.5	101	1939	10	80.2	1980	43	1967	30	74.0	1976	1	345	.1	10.3	30.0	.0	.0	.0
Oct	78.2	55.9	67.1	97	1941	5	72.4	1985	28	1952	30	61.6	1987	63	127	.0	1.0	31.0	.0	.0	.0
Nov	70.5	47.4	59.0	89+	1978	17	66.4	1985	13	1950	25	51.1	1976	218	36	.0	.0	29.6	.0	1.9	.0
Dec	62.5	40.3	51.4	84+	1931	20	59.0	1971	9+	1983	25	43.6	1989	431	10	.0	.0	28.3	@	7.2	.0
Ann	77.2	54.8	66.0	110	Jun 2001	22	85.5	Jul 1986	1	Jan 1985	21	39.5	Jan 1977	1911	2277	3.3	82.2	355.4	.1	25.8	.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: 1930-2001

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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	4.43	3.89	3.32	1998	23	11.92	1991	.91	1989
Feb	3.66	3.13	4.02	1988	19	8.69	1998	.26	1991
Mar	3.99	3.75	3.10	1980	13	8.65	1980	.92	1990
Apr	3.04	2.70	8.66	1948	1	8.15	1982	.45	1986
May	3.18	2.80	8.52	1969	19	10.67	1976	.72	1990
Jun	4.79	3.80	5.43	1994	29	13.55	1994	1.65	1980
Jul	5.00	4.28	4.24	1966	1	12.54	1991	2.28	1986
Aug	5.84	5.54	6.30	1995	26	13.81	1995	1.53	1983
Sep	4.17	4.22	6.41	1953	26	10.11	1988	.08	1972
Oct	2.98	1.79	7.90	1990	10	12.15	1990	.00	1974
Nov	2.74	2.09	3.50	1992	22	6.74	1992	.11	1991
Dec	3.50	3.14	4.28	1964	4	7.44	1977	.50	1984
Ann	47.32	46.07	8.66	Apr 1948	1	13.81	Aug 1995	.00	Oct 1974

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	7.2	3.1	1.2
Feb	8.3	5.4	2.5	1.0
Mar	9.1	6.4	3.1	1.1
Apr	7.0	4.6	2.1	.9
May	8.9	5.6	2.4	.8
Jun	11.3	7.4	3.3	1.1
Jul	13.3	9.0	3.7	1.2
Aug	13.1	9.0	3.7	1.5
Sep	9.9	6.0	2.9	1.3
Oct	6.5	4.0	1.5	.9
Nov	7.6	4.3	2.0	.8
Dec	8.9	4.8	2.4	1.3
Ann	115.1	73.7	32.7	13.1

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	1.36	1.78	2.41	2.94	3.47	4.01	4.61	5.31	6.21	7.62	8.93
Feb	.84	1.18	1.71	2.19	2.67	3.18	3.76	4.44	5.34	6.76	8.11
Mar	1.27	1.65	2.21	2.69	3.15	3.63	4.16	4.78	5.57	6.81	7.96
Apr	.44	.70	1.13	1.56	1.99	2.48	3.03	3.71	4.62	6.11	7.55
May	.52	.79	1.26	1.69	2.14	2.63	3.20	3.88	4.79	6.27	7.69
Jun	1.46	1.92	2.60	3.18	3.74	4.33	4.98	5.74	6.72	8.25	9.67
Jul	1.84	2.31	2.98	3.55	4.08	4.63	5.23	5.92	6.80	8.16	9.41
Aug	2.03	2.58	3.38	4.06	4.71	5.37	6.10	6.94	8.02	9.70	11.24
Sep	.38	.67	1.23	1.81	2.44	3.16	4.01	5.08	6.55	9.00	11.41
Oct	.06	.25	.62	1.04	1.52	2.07	2.75	3.61	4.83	6.89	8.95
Nov	.38	.60	1.00	1.38	1.78	2.22	2.72	3.35	4.19	5.56	6.89
Dec	1.07	1.40	1.90	2.32	2.74	3.17	3.64	4.19	4.91	6.03	7.06
Ann	33.68	36.32	39.70	42.26	44.54	46.74	49.02	51.53	54.58	58.99	62.81

\+ 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: 1930-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	.0	#	0
Feb	.2	.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	.3	.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	2.0	1977	31	2.0	1977	2	1977	31	#	1977
Feb	4.0	1973	10	4.0	1973	#	1996	5	#	1996
Mar	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Ann	4.0	Feb 1973	10	4.0	Feb 1973	2	Jan 1977	31	#+	Feb 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.0	.0	.0
Feb	.1	.1	.1	.0	.0
Mar	.0	.0	.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	.2	.2	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.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

+ 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	4/06	4/01	3/27	3/24	3/21	3/17	3/14	3/09	3/04
32	3/24	3/16	3/11	3/07	3/03	2/26	2/22	2/17	2/10
28	3/07	2/28	2/24	2/20	2/16	2/12	2/08	2/03	1/27
24	3/02	2/21	2/14	2/08	2/03	1/29	1/22	1/15	12/31
20	2/11	2/01	1/24	1/16	1/06	0/00	0/00	0/00	0/00
16	1/20	1/04	0/00	0/00	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	10/30	11/04	11/08	11/11	11/14	11/17	11/21	11/24	11/30
32	11/07	11/13	11/18	11/21	11/25	11/28	12/02	12/07	12/13
28	11/22	11/30	12/07	12/12	12/17	12/22	12/27	1/03	1/11
24	12/07	12/17	12/25	12/31	1/06	1/12	1/19	1/28	2/14
20	12/20	12/30	1/07	1/15	1/26	0/00	0/00	0/00	0/00
16	1/05	1/20	0/00	0/00	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	260	253	247	242	238	234	229	223	216
32	294	285	278	272	267	261	255	248	239
28	336	323	315	308	302	296	290	282	272
24	>365	>365	>365	338	329	322	315	308	299
20	>365	>365	>365	>365	>365	>365	>365	347	330
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	509	374	233	75	7	0	0	0	1	63	218	431	1911
60	376	248	127	22	0	0	0	0	0	20	123	294	1210
57	306	183	81	8	0	0	0	0	0	9	80	224	891
55	264	147	56	4	0	0	0	0	0	5	57	185	718
50	177	75	18	0	0	0	0	0	0	0	20	103	393
32	15	0	0	0	0	0	0	0	0	0	0	2	17

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	548	556	815	985	1259	1409	1539	1503	1334	1087	808	604	12447
55	84	58	157	298	546	719	826	790	644	378	175	74	4749
57	63	39	120	242	484	659	764	728	584	320	138	51	4192
60	40	19	74	166	391	569	671	635	494	239	92	28	3418
65	3	6	24	69	242	419	516	480	345	127	36	10	2277
70	2	0	6	17	119	272	361	325	201	50	11	0	1364

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	344	406	631	788	1049	1188	1313	1277	1115	870	596	402	344	750	1381	2169	3218	4406	5719	6996	8111	8981	9577	9979
45	222	281	478	638	894	1038	1158	1122	965	715	450	276	222	503	981	1619	2513	3551	4709	5831	6796	7511	7961	8237
50	129	172	333	489	739	888	1003	967	815	560	314	165	129	301	634	1123	1862	2750	3753	4720	5535	6095	6409	6574
55	64	93	209	345	584	738	848	812	665	406	199	87	64	157	366	711	1295	2033	2881	3693	4358	4764	4963	5050
60	29	41	111	210	430	588	693	657	516	264	105	41	29	70	181	391	821	1409	2102	2759	3275	3539	3644	3685
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	207	252	397	512	713	819	900	887	776	576	376	243	207	459	856	1368	2081	2900	3800	4687	5463	6039	6415	6658

(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