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: WASHINGTON 2 ESE, GA **COOP ID: 099157**

Climate Division: GA 3 **NWS Call Sign:** **Elevation: 620 Feet** **Lat: 33˚43N** **Lon: 82˚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	52.5	31.4	42.0	84	1949	12	54.2	1974	-5+	1985	22	31.7	1977	715	0	.0	.0	19.1	.7	17.2	.1
Feb	57.6	33.4	45.5	81+	1996	27	51.3	1976	6+	1996	6	37.4	1978	547	0	.0	.0	21.2	.3	13.8	.0
Mar	65.6	40.3	53.0	89	1968	22	60.1	1997	9	1980	4	46.5	1971	381	7	.0	.0	28.6	@	7.2	.0
Apr	73.6	47.3	60.5	93	1986	28	65.0	1981	26	1949	17	56.3	1983	164	28	.0	.1	29.8	.0	1.1	.0
May	80.6	56.3	68.5	98+	1953	31	73.2	2000	33	1971	5	64.1+	1976	48	155	.0	1.9	31.0	.0	.0	.0
Jun	86.9	64.3	75.6	109	1952	30	80.1	1981	44+	1984	1	70.6	1972	2	320	.2	9.9	30.0	.0	.0	.0
Jul	90.0	68.4	79.2	106+	1952	24	84.1	1993	51	1955	1	76.0	1974	0	441	1.1	18.5	31.0	.0	.0	.0
Aug	88.2	67.5	77.9	106	1983	22	82.2	1999	47+	1968	31	74.9	1981	0	399	.7	14.7	31.0	.0	.0	.0
Sep	83.0	61.5	72.3	99+	1957	3	76.0	1980	34	1967	30	68.9	1974	8	226	.0	6.4	30.0	.0	.0	.0
Oct	73.4	49.5	61.5	97	1954	2	69.2	1984	22	1955	31	55.8	1976	167	57	.0	.3	31.0	.0	.5	.0
Nov	64.5	40.8	52.7	88+	1961	3	61.0	1985	8	1950	25	46.6	1976	377	7	.0	.0	28.7	.0	7.3	.0
Dec	55.0	33.8	44.4	79+	1998	7	53.2	1984	2	1962	13	37.2	2000	640	0	.0	.0	21.8	.3	14.7	.0
Ann	72.6	49.5	61.1	109	Jun 1952	30	84.1	Jul 1993	-5+	Jan 1985	22	31.7	Jan 1977	3049	1640	2.0	51.8	333.2	1.3	61.8	.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: 1948-2001

(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	5.16	4.67	2.87	1969	20	10.01	1974	1.15	1981
Feb	4.43	4.39	3.88	1981	11	8.34	1979	.46	1978
Mar	4.83	4.72	3.43	1964	15	10.34	1980	1.03	1985
Apr	3.36	2.82	4.18	1975	3	6.55	1979	.32	1987
May	3.81	3.39	5.24	1964	3	12.62	1976	.28	2000
Jun	3.70	3.15	4.03	1957	26	7.82	1999	.66	1993
Jul	4.17	3.70	4.13	1989	5	11.56	1989	.73	1983
Aug	3.84	3.09	4.68	1994	17	8.45	1977	.94	1985
Sep	3.42	3.67	4.26	1989	22	8.00	1989	.24	1985
Oct	3.24	3.36	4.96	1970	30	7.41	1990	.00	1978
Nov	3.38	2.96	3.79	1948	28	9.65	1992	.62	1981
Dec	3.60	3.21	2.70	1974	1	7.75	1981	.77	1988
Ann	46.94	46.88	5.24	May 1964	3	12.62	May 1976	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.3	8.0	3.9	1.7
Feb	10.0	6.6	3.1	1.6
Mar	10.3	7.2	3.3	1.5
Apr	7.9	5.7	2.1	.9
May	8.3	5.6	2.7	1.1
Jun	8.8	6.0	2.3	1.0
Jul	9.7	6.8	2.8	1.3
Aug	9.1	5.8	2.4	1.2
Sep	7.8	5.4	2.3	1.0
Oct	6.5	4.5	1.8	1.2
Nov	9.0	5.6	2.8	.9
Dec	11.2	6.5	2.6	1.0
Ann	110.9	73.7	32.1	14.4

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	2.07	2.54	3.22	3.77	4.30	4.83	5.41	6.07	6.92	8.21	9.38
Feb	1.53	1.95	2.56	3.07	3.56	4.07	4.62	5.26	6.09	7.36	8.53
Mar	1.64	2.10	2.76	3.33	3.87	4.43	5.04	5.75	6.66	8.07	9.38
Apr	.68	.99	1.48	1.93	2.39	2.87	3.42	4.08	4.96	6.36	7.69
May	.76	1.11	1.67	2.18	2.70	3.26	3.89	4.64	5.64	7.25	8.77
Jun	.84	1.18	1.72	2.21	2.70	3.21	3.79	4.48	5.40	6.85	8.21
Jul	.77	1.14	1.75	2.31	2.89	3.51	4.22	5.08	6.22	8.05	9.80
Aug	.88	1.23	1.79	2.30	2.80	3.34	3.94	4.65	5.59	7.09	8.50
Sep	.48	.76	1.25	1.73	2.22	2.77	3.40	4.18	5.23	6.93	8.58
Oct	.16	.44	.93	1.40	1.91	2.48	3.15	3.99	5.12	7.01	8.85
Nov	.92	1.24	1.72	2.15	2.57	3.01	3.50	4.07	4.82	6.00	7.10
Dec	1.09	1.43	1.94	2.38	2.81	3.25	3.74	4.31	5.06	6.22	7.29
Ann	33.98	36.50	39.72	42.16	44.33	46.41	48.57	50.94	53.82	57.98	61.58

\+ 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)

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	.3	.0	#	0	4.0	1992	19	4.0	1992	#+	1991	25	#+	1991	.1	.1	.1	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1991	16	#+	1991	3	1980	6	#	1980	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1986	2	#	1986	0	0	0	0	0	.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	.3	.0	N/A	N/A	4.0	Jan 1992	19	4.0	Jan 1992	3	Feb 1980	6	#+	Jan 1991	.1	.1	.1	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/29	4/23	4/18	4/14	4/11	4/07	4/03	3/30	3/23
32	4/18	4/11	4/06	4/02	3/30	3/26	3/22	3/17	3/10
28	4/04	3/27	3/21	3/16	3/12	3/07	3/03	2/25	2/17
24	3/12	3/05	2/28	2/23	2/19	2/14	2/10	2/04	1/28
20	3/08	2/27	2/20	2/14	2/08	2/03	1/27	1/19	1/04
16	2/26	2/15	2/07	1/31	1/22	1/12	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	10/12	10/16	10/19	10/22	10/25	10/27	10/30	11/03	11/07
32	10/22	10/29	11/03	11/07	11/11	11/14	11/18	11/23	11/30
28	11/01	11/08	11/13	11/17	11/20	11/24	11/28	12/03	12/09
24	11/14	11/24	12/01	12/07	12/13	12/19	12/26	1/02	1/12
20	12/03	12/12	12/19	12/25	12/31	1/05	1/12	1/20	2/04
16	12/19	12/28	1/04	1/11	1/18	1/28	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	217	210	205	201	196	192	188	183	176
32	256	245	238	231	225	219	213	205	194
28	280	271	264	258	253	247	242	235	226
24	331	318	309	302	295	289	282	274	263
20	>365	>365	335	324	316	310	303	296	287
16	>365	>365	>365	>365	>365	362	340	326	312

***** 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	715	547	381	164	48	2	0	0	8	167	377	640	3049
60	570	410	246	73	13	0	0	0	1	85	247	492	2137
57	484	332	179	38	5	0	0	0	0	51	181	406	1676
55	429	282	141	22	2	0	0	0	0	34	144	351	1405
50	304	173	67	4	0	0	0	0	0	10	70	230	858
32	40	6	0	0	0	0	0	0	0	0	0	16	62

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	349	383	649	854	1130	1307	1464	1422	1207	913	620	400	10698
55	24	15	77	186	419	617	751	709	517	234	73	21	3643
57	17	9	53	142	359	557	689	647	458	189	51	14	3185
60	10	3	27	87	275	467	596	554	369	130	27	7	2552
65	0	0	7	28	155	320	441	399	226	57	7	0	1640
70	0	0	0	5	71	184	288	247	106	18	1	0	920

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	157	225	424	626	897	1077	1231	1193	987	689	406	208	157	382	806	1432	2329	3406	4637	5830	6817	7506	7912	8120
45	87	131	289	477	742	927	1076	1038	837	535	272	117	87	218	507	984	1726	2653	3729	4767	5604	6139	6411	6528
50	38	63	172	332	588	777	921	883	687	382	162	54	38	101	273	605	1193	1970	2891	3774	4461	4843	5005	5059
55	14	24	92	209	435	627	766	728	538	245	82	26	14	38	130	339	774	1401	2167	2895	3433	3678	3760	3786
60	1	6	33	110	283	477	611	573	391	131	34	2	1	7	40	150	433	910	1521	2094	2485	2616	2650	2652
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	100	154	273	400	592	739	842	823	664	439	257	132	100	254	527	927	1519	2258	3100	3923	4587	5026	5283	5415

(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