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: ROME, GA **COOP ID: 097600**

Climate Division: GA 1 **NWS Call Sign:** **Elevation: 615 Feet** **Lat: 34˚15N** **Lon: 85˚09W**

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	49.6	29.1	39.4	80+	1950	25	50.0	1974	-9	1985	21	28.1	1977	795	0	.0	.0	16.7	1.4	19.8	.2
Feb	55.2	31.3	43.3	85	1930	25	50.4	1990	2	1958	17	35.5	1978	609	0	.0	.0	19.5	.5	16.1	.0
Mar	63.8	38.3	51.1	91	1964	7	56.7	1997	8	1993	15	45.4	1996	438	5	.0	.0	28.2	@	8.5	.0
Apr	71.9	45.0	58.5	95	1955	18	64.1	1981	23	1987	1	53.8	1983	212	15	.0	.1	29.8	.0	2.3	.0
May	78.5	54.0	66.3	99	1941	29	71.8	2000	33	1963	2	61.1	1976	74	112	.0	.4	31.0	.0	.0	.0
Jun	84.6	62.6	73.6	107	1931	28	77.3	1986	42+	1984	1	69.1	1976	4	261	@	5.6	30.0	.0	.0	.0
Jul	87.7	67.2	77.5	107	1930	10	82.5	1993	51+	1967	15	74.0	1976	0	385	.7	11.8	31.0	.0	.0	.0
Aug	86.5	66.4	76.5	104+	1954	27	80.3	1987	51+	1968	31	73.0	1992	0	356	.1	9.4	31.0	.0	.0	.0
Sep	81.0	60.3	70.7	104	1954	4	75.0	1980	32	1967	30	67.4	1974	19	189	.0	3.0	30.0	.0	.0	.0
Oct	71.5	47.0	59.3	99	1954	5	65.6	1971	23+	2000	11	53.2	1987	211	32	.0	.0	30.9	.0	1.8	.0
Nov	62.0	38.9	50.5	87	1961	2	58.8	1985	4	1950	25	43.1	1976	442	5	.0	.0	26.9	.0	10.0	.0
Dec	52.6	31.9	42.3	80+	1956	8	49.5	1971	-2	1983	25	34.3	1989	706	0	.0	.0	19.9	.7	17.9	.1
Ann	70.4	47.7	59.1	107+	Jun 1931	28	82.5	Jul 1993	-9	Jan 1985	21	28.1	Jan 1977	3510	1360	.8	30.3	324.9	2.6	76.4	.3

\+ 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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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	5.37	5.39	4.65	1954	16	9.45	1972	.85	1981
Feb	4.87	4.85	4.92	1990	16	11.48	1990	.79	1978
Mar	6.67	5.53	5.47	1979	4	17.98	1980	1.57	1985
Apr	4.88	4.21	4.30	1957	5	13.60	1979	.58	1976
May	4.25	4.43	2.99	1964	3	8.59	1973	1.38	1992
Jun	4.60	4.15	3.31	1930	6	10.85	1989	.23	1988
Jul	4.83	4.82	4.05	1999	12	12.36	1984	1.10	1993
Aug	4.43	4.26	4.92	1992	22	14.54	1992	.49	1987
Sep	3.93	3.88	4.95	1997	25	8.97	1975	.26	1985
Oct	3.40	3.32	6.67	1997	26	10.37	1995	.09	1978
Nov	4.55	4.49	3.25	1983	24	9.19	1992	1.77	1999
Dec	4.38	4.12	5.96	1961	12	9.84	1983	.58	1980
Ann	56.16	57.12	6.67	Oct 1997	26	17.98	Mar 1980	.09	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.0	8.8	4.0	1.4
Feb	9.8	6.9	3.5	1.4
Mar	11.4	8.6	4.2	2.2
Apr	9.3	6.6	3.4	1.6
May	9.9	6.9	3.1	1.1
Jun	10.0	6.9	3.5	1.3
Jul	10.3	7.2	3.6	1.4
Aug	9.2	6.1	2.7	1.2
Sep	8.4	5.8	2.6	1.4
Oct	6.7	4.6	2.1	1.1
Nov	9.7	6.8	3.1	1.5
Dec	10.5	7.3	3.0	1.4
Ann	117.2	82.5	38.8	17.0

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	2.36	2.84	3.51	4.06	4.57	5.08	5.63	6.27	7.07	8.28	9.37
Feb	1.43	1.89	2.59	3.19	3.77	4.38	5.05	5.84	6.87	8.47	9.96
Mar	2.15	2.79	3.72	4.52	5.29	6.08	6.95	7.97	9.29	11.33	13.22
Apr	1.09	1.54	2.25	2.90	3.54	4.23	5.00	5.93	7.14	9.08	10.91
May	1.53	1.93	2.51	2.99	3.45	3.92	4.44	5.04	5.80	6.98	8.06
Jun	.91	1.33	2.00	2.62	3.25	3.92	4.68	5.59	6.80	8.75	10.59
Jul	1.41	1.87	2.56	3.16	3.74	4.34	5.01	5.80	6.82	8.42	9.91
Aug	.86	1.26	1.91	2.50	3.11	3.76	4.50	5.39	6.57	8.47	10.27
Sep	.39	.68	1.22	1.76	2.36	3.02	3.81	4.80	6.14	8.38	10.57
Oct	.31	.54	1.00	1.47	1.99	2.57	3.27	4.14	5.34	7.34	9.30
Nov	1.75	2.18	2.78	3.28	3.75	4.24	4.76	5.37	6.14	7.32	8.40
Dec	1.20	1.61	2.25	2.80	3.34	3.91	4.53	5.28	6.24	7.76	9.18
Ann	39.74	42.91	46.98	50.07	52.81	55.47	58.21	61.25	64.93	70.27	74.89

\+ 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

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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	.6	.0	0	0
Feb	.1	.0	#	0
Mar	.7	.0	#	0
Apr	.2	.0	0	0
May	.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
Dec	.1	.0	#	0
Ann	1.7	.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	5.5	1987	22	5.5	1987	#+	1996	21	0	0
Feb	.5	1971	13	.5+	1984	1	1971	13	#	1971
Mar	12.0	1993	13	14.0	1993	14	1993	14	1	1993
Apr	5.5	1987	3	5.5	1987	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	#	1999
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	#	1993	1	#+	1993	0	0	0	0	0
Dec	1.8	1971	3	1.8	1971	1	1973	21	#	1973
Ann	12.0	Mar 1993	13	14.0	Mar 1993	14	Mar 1993	14	1	Mar 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.2	@	@	.0
Feb	.2	.0	.0	.0	.0
Mar	.2	.1	@	@	@
Apr	.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	.2	.1	.0	.0	.0
Ann	.9	.4	@	@	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	@	.0	.0	.0
Mar	.1	.1	.1	.1
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
Ann	.1	.1	.1	.1

+ 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	4/28	4/24	4/21	4/18	4/15	4/12	4/09	4/04
32	4/21	4/17	4/14	4/12	4/10	4/07	4/05	4/02	3/29
28	4/08	4/01	3/28	3/23	3/20	3/16	3/12	3/07	2/28
24	3/23	3/15	3/10	3/05	2/28	2/24	2/19	2/13	2/06
20	3/09	3/01	2/23	2/19	2/14	2/09	2/04	1/30	1/22
16	3/05	2/23	2/17	2/11	2/06	1/31	1/25	1/17	1/02

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	10/09	10/12	10/15	10/17	10/20	10/22	10/25	10/30
32	10/12	10/17	10/21	10/24	10/27	10/30	11/03	11/06	11/12
28	10/21	10/27	11/01	11/05	11/08	11/12	11/16	11/21	11/27
24	11/02	11/10	11/15	11/19	11/24	11/28	12/02	12/08	12/15
20	11/24	12/04	12/10	12/16	12/21	12/26	1/01	1/08	1/17
16	11/29	12/11	12/19	12/27	1/03	1/10	1/18	1/28	2/16

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	191	188	184	181	178	175	171	166
32	221	214	209	204	200	196	191	186	179
28	260	251	244	238	233	228	222	216	207
24	297	287	279	273	267	262	255	248	238
20	346	329	320	313	306	300	293	286	275
16	>365	>365	347	333	323	315	307	298	287

***** 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	795	609	438	212	74	4	0	0	19	211	442	706	3510
60	648	469	298	105	24	0	0	0	3	112	306	553	2518
57	561	387	225	61	10	0	0	0	1	70	234	468	2017
55	504	335	182	39	5	0	0	0	0	49	191	411	1716
50	372	212	97	9	0	0	0	0	0	15	106	280	1091
32	69	8	0	0	0	0	0	0	0	0	1	27	105

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	297	323	590	794	1061	1247	1408	1379	1160	844	554	344	10001
55	20	6	60	142	353	557	695	666	470	180	54	15	3218
57	14	2	40	104	296	497	633	604	411	139	36	10	2786
60	8	0	21	59	217	407	540	511	323	88	19	2	2195
65	0	0	5	15	112	261	385	356	189	32	5	0	1360
70	0	0	0	2	43	134	237	208	85	8	0	0	717

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	125	185	391	578	835	1023	1177	1145	934	613	338	162	125	310	701	1279	2114	3137	4314	5459	6393	7006	7344	7506
45	60	102	253	429	680	873	1022	990	784	461	214	89	60	162	415	844	1524	2397	3419	4409	5193	5654	5868	5957
50	28	49	148	292	526	723	867	835	634	313	120	44	28	77	225	517	1043	1766	2633	3468	4102	4415	4535	4579
55	6	16	73	175	372	573	712	680	484	186	58	20	6	22	95	270	642	1215	1927	2607	3091	3277	3335	3355
60	0	0	27	85	231	424	557	525	337	90	18	2	0	0	27	112	343	767	1324	1849	2186	2276	2294	2296
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	78	131	257	374	543	698	818	794	628	392	213	103	78	209	466	840	1383	2081	2899	3693	4321	4713	4926	5029

(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