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: COVINGTON, GA **COOP ID: 092318**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 690 Feet** **Lat: 33˚36N** **Lon: 83˚55W**

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	52.1	31.3	41.7	81	1949	12	53.0	1974	-7	1985	21	31.2	1977	722	0	.0	.0	19.5	.8	16.1	.1
Feb	57.6	33.7	45.7	81+	1989	16	51.9	1990	5	1958	17	38.3	1978	543	0	.0	.0	21.4	.3	11.4	.0
Mar	66.3	41.0	53.7	87+	1998	30	60.7	1997	12+	1980	3	47.5	1971	363	10	.0	.0	28.9	.1	5.0	.0
Apr	74.2	47.6	60.9	95	1986	27	65.3	1999	26+	1987	1	56.7	1983	150	28	.0	.2	29.8	.0	.8	.0
May	81.5	56.6	69.1	97+	1962	19	72.7	1998	35+	1971	4	65.3	1997	29	155	.0	2.4	31.0	.0	.0	.0
Jun	87.8	64.5	76.2	105	1952	27	79.7	1998	44	1972	1	72.3	1997	0	334	.1	10.7	30.0	.0	.0	.0
Jul	90.6	68.3	79.5	106	1952	29	84.3	1993	52	1967	15	76.6	1984	0	448	1.1	17.5	31.0	.0	.0	.0
Aug	89.0	67.6	78.3	105+	1983	22	81.9	1999	53+	1952	28	75.6	1992	0	412	.4	12.5	31.0	.0	.0	.0
Sep	83.5	61.8	72.7	102	1954	5	76.6	1980	34+	2001	28	69.8	2000	8	236	.0	5.0	30.0	.0	.0	.0
Oct	73.8	49.3	61.6	98+	1954	6	68.4	1984	23	1952	30	56.3	1987	157	48	.0	.1	30.9	.0	.4	.0
Nov	64.1	40.7	52.4	87	1974	2	61.4	1985	5	1950	25	45.6	1976	386	8	.0	.0	27.9	.0	6.3	.0
Dec	54.7	33.6	44.2	79	1971	16	51.8	1984	0	1962	13	35.9	2000	646	0	.0	.0	22.2	.2	12.8	.0
Ann	72.9	49.7	61.3	106	Jul 1952	29	84.3	Jul 1993	-7	Jan 1985	21	31.2	Jan 1977	3004	1679	1.6	48.4	333.6	1.4	52.8	.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	5.22	5.01	4.65	1972	11	11.15	1972	1.30	1981
Feb	4.61	4.61	4.86	1966	13	8.02	1998	.64	1978
Mar	5.25	4.76	6.07	1990	17	10.92	1971	1.05	1985
Apr	3.60	3.39	3.50	1957	5	7.72	1979	.60	1987
May	3.74	3.01	3.67	1976	15	8.83	1980	.95	1993
Jun	3.75	3.39	3.91	1992	12	8.60	1989	.51	1979
Jul	4.64	4.13	4.14	1984	14	11.66	1984	.58	1983
Aug	4.06	4.03	4.79	1982	11	7.82	1982	.20	1980
Sep	3.51	3.06	3.30	1997	25	8.53	1988	1.07	1978
Oct	3.05	2.75	4.89	1965	1	6.98	1995	.36	1991
Nov	3.70	3.48	4.73	1948	27	9.85	1992	1.23	1990
Dec	3.97	3.83	3.72	1972	15	8.84	1972	.70	1988
Ann	49.10	48.60	6.07	Mar 1990	17	11.66	Jul 1984	.20	Aug 1980

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.3	8.0	3.7	1.4
Feb	9.2	6.5	3.1	1.5
Mar	10.8	7.3	3.6	1.5
Apr	7.6	5.2	2.2	1.1
May	9.0	6.3	2.5	1.1
Jun	9.2	6.7	2.5	.9
Jul	10.2	7.0	2.8	1.3
Aug	9.4	6.7	2.6	1.1
Sep	8.3	6.1	2.2	.9
Oct	6.1	4.0	2.0	.8
Nov	8.4	5.6	2.6	1.0
Dec	10.3	6.7	3.0	1.0
Ann	109.8	76.1	32.8	13.6

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	2.25	2.72	3.38	3.91	4.42	4.93	5.48	6.11	6.90	8.11	9.20
Feb	1.53	1.97	2.61	3.15	3.68	4.21	4.80	5.49	6.38	7.75	9.02
Mar	1.75	2.25	2.98	3.60	4.19	4.81	5.48	6.26	7.27	8.83	10.27
Apr	1.08	1.42	1.93	2.38	2.80	3.25	3.74	4.32	5.06	6.23	7.31
May	.93	1.28	1.83	2.31	2.79	3.29	3.86	4.52	5.40	6.78	8.07
Jun	.89	1.24	1.79	2.28	2.77	3.28	3.86	4.55	5.45	6.88	8.23
Jul	1.00	1.43	2.11	2.72	3.34	4.00	4.74	5.63	6.81	8.68	10.45
Aug	.89	1.27	1.86	2.40	2.94	3.51	4.16	4.93	5.95	7.57	9.10
Sep	.98	1.32	1.82	2.26	2.69	3.14	3.63	4.22	4.98	6.18	7.29
Oct	.52	.79	1.23	1.65	2.08	2.55	3.08	3.73	4.59	5.98	7.31
Nov	1.27	1.62	2.13	2.56	2.97	3.40	3.86	4.41	5.10	6.18	7.18
Dec	1.18	1.56	2.12	2.61	3.08	3.58	4.12	4.76	5.59	6.88	8.08
Ann	37.13	39.50	42.51	44.78	46.77	48.69	50.67	52.84	55.45	59.22	62.45

\+ 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
(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	.8	.0	#	0
Feb	.4	.0	#	0
Mar	.3	.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	.1	.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	5.5	1992	19	5.5+	1992	6+	1992	19	1	1982
Feb	3.0	1980	6	3.5	1979	4	1979	19	#+	1989
Mar	4.0	1993	14	4.0	1983	3	1983	25	#+	1996
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	2.0	1996	19	2.0	1996	3	1993	23	#+	1997
Ann	5.5	Jan 1992	19	5.5+	Jan 1992	6+	Jan 1992	19	1	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.2	.1	@	.0
Feb	.2	.2	@	.0	.0
Mar	.2	.2	@	.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
Ann	.7	.6	.1	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.8	.1	.1	.0
Feb	.3	.1	.0	.0
Mar	.1	@	.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
Ann	1.2	.2	.1	.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	4/26	4/21	4/17	4/13	4/10	4/07	4/03	3/30	3/25
32	4/20	4/12	4/06	4/02	3/28	3/24	3/19	3/14	3/06
28	3/31	3/25	3/20	3/16	3/12	3/09	3/04	2/27	2/17
24	3/13	3/06	2/28	2/24	2/19	2/15	2/10	2/03	1/22
20	3/06	2/25	2/18	2/13	2/08	2/02	1/27	1/19	1/05
16	2/26	2/15	2/06	1/29	1/21	1/10	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	10/09	10/15	10/19	10/23	10/26	10/29	11/02	11/06	11/12
32	10/20	10/28	11/02	11/06	11/11	11/15	11/19	11/25	12/02
28	11/05	11/10	11/14	11/18	11/21	11/24	11/28	12/03	12/12
24	11/20	11/30	12/07	12/13	12/18	12/24	12/31	1/08	1/24
20	12/03	12/12	12/18	12/23	12/28	1/02	1/08	1/16	1/30
16	12/07	12/20	12/31	1/10	1/20	2/03	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	223	215	209	203	198	193	188	182	173
32	258	248	240	233	227	220	214	206	195
28	>365	269	262	257	253	249	244	239	232
24	>365	330	317	308	301	295	288	280	269
20	>365	351	337	328	320	313	306	297	286
16	>365	>365	>365	>365	>365	>365	325	312	301

***** 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	722	543	363	150	29	0	0	0	8	157	386	646	3004
60	576	404	232	64	5	0	0	0	1	74	256	499	2111
57	490	326	169	32	1	0	0	0	0	42	190	413	1663
55	434	275	132	18	0	0	0	0	0	27	153	358	1397
50	308	165	62	3	0	0	0	0	0	7	78	238	861
32	41	4	0	0	0	0	0	0	0	0	0	19	64

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	342	385	670	868	1149	1324	1471	1435	1219	915	612	397	10787
55	23	13	89	196	436	634	758	722	529	228	75	23	3726
57	16	8	64	150	375	574	696	660	469	182	52	15	3261
60	10	1	35	92	286	484	603	567	380	121	28	8	2615
65	0	0	10	28	155	334	448	412	236	48	8	0	1679
70	0	0	1	5	63	193	294	258	116	13	0	0	943

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	159	238	466	651	915	1089	1229	1187	990	686	399	204	159	397	863	1514	2429	3518	4747	5934	6924	7610	8009	8213
45	79	140	324	501	760	939	1074	1032	840	532	265	109	79	219	543	1044	1804	2743	3817	4849	5689	6221	6486	6595
50	36	70	200	355	605	789	919	877	690	380	160	57	36	106	306	661	1266	2055	2974	3851	4541	4921	5081	5138
55	12	32	109	221	451	639	764	722	541	241	81	21	12	44	153	374	825	1464	2228	2950	3491	3732	3813	3834
60	0	5	43	118	302	489	609	567	391	122	33	2	0	5	48	166	468	957	1566	2133	2524	2646	2679	2681
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	95	152	294	413	607	745	847	829	671	428	241	119	95	247	541	954	1561	2306	3153	3982	4653	5081	5322	5441

(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