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: IRWINTON 4 WNW, GA **COOP ID: 094594**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 515 Feet** **Lat: 32˚50N** **Lon: 83˚14W**

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	56.5	34.1	45.3	85	1975	31	59.0	1974	-4	1985	21	33.0	1977	620	0	.0	.0	24.9	.2	11.6	@
Feb	61.0	36.9	49.0	85	1989	16	55.7	1990	8	1996	5	40.9	1978	450	1	.0	.0	24.9	.1	8.1	.0
Mar	69.2	43.1	56.2	90+	1974	9	62.1	2000	10	1980	3	50.0	1971	289	16	.0	@	30.4	.0	2.4	.0
Apr	76.7	50.3	63.5	96	1986	27	68.4	1999	28	1987	1	59.9	1983	100	55	.0	.7	30.0	.0	.5	.0
May	83.1	58.7	70.9	97	1967	28	75.6	1998	33	1989	7	67.7	1989	17	200	.0	6.1	31.0	.0	.0	.0
Jun	89.3	66.1	77.7	106	1978	28	83.0	1998	44+	1984	1	73.5	1972	0	381	.9	18.1	30.0	.0	.0	.0
Jul	92.0	69.6	80.8	107+	1986	21	84.8	1986	54	1967	15	77.2	1975	0	489	2.9	24.2	31.0	.0	.0	.0
Aug	90.7	69.1	79.9	105	1980	7	84.7	1999	54	1968	29	77.6+	1994	0	462	1.6	21.3	31.0	.0	.0	.0
Sep	85.9	64.1	75.0	102+	1999	7	79.8	1980	39	1967	30	72.6	2000	2	301	.2	11.0	30.0	.0	.0	.0
Oct	76.7	52.3	64.5	93+	1981	6	70.8	1984	29	1965	25	58.7	1974	104	89	.0	.6	31.0	.0	.1	.0
Nov	68.6	43.1	55.9	87+	1978	2	63.4	1985	16+	1970	25	48.2	1976	296	22	.0	.0	29.7	.0	3.2	.0
Dec	59.6	36.9	48.3	83	1973	4	56.3	1984	5	1983	25	38.4	2000	527	7	.0	.0	26.7	.1	8.6	.0
Ann	75.8	52.0	63.9	107+	Jul 1986	21	84.8	Jul 1986	-4	Jan 1985	21	33.0	Jan 1977	2405	2023	5.6	82.0	350.6	.4	34.5	@

\+ 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: 1956-2001

(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	5.02	5.11	3.57	1991	30	10.49	1978	.87	1981
Feb	4.35	4.08	3.90	1981	11	9.72	1979	.46	2000
Mar	4.82	4.09	4.44	1977	21	12.80	1980	.69	1997
Apr	2.99	2.83	2.51	1975	14	7.10	1982	.17	1986
May	2.94	2.66	3.40	1976	15	8.13	1976	.28	2000
Jun	3.44	3.38	3.19	1972	20	6.41	1972	.46	1990
Jul	4.63	3.60	5.02	1994	6	15.13	1994	.80	1980
Aug	4.06	3.70	3.76	1995	26	9.04	1971	.46	1972
Sep	3.78	3.73	5.29	1998	3	9.55	1998	.00	1990
Oct	2.59	2.34	5.06	1970	30	6.53	1985	.10	1987
Nov	3.19	2.81	4.00+	1983	23	7.15	1983	.33	1998
Dec	4.03	2.75	5.06	1972	6	11.20	1972	.71	1980
Ann	45.84	44.08	5.29	Sep 1998	3	15.13	Jul 1994	.00	Sep 1990

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	7.1	3.6	1.5
Feb	7.7	5.8	3.2	1.4
Mar	8.6	6.5	3.3	1.7
Apr	6.4	4.7	2.1	.9
May	6.8	4.9	2.0	.9
Jun	7.9	6.1	2.5	.9
Jul	9.5	7.4	3.0	1.3
Aug	8.9	6.5	2.5	1.0
Sep	7.4	5.2	2.4	1.4
Oct	5.0	3.6	1.7	.7
Nov	6.6	4.8	2.2	1.0
Dec	7.7	5.2	2.8	1.3
Ann	92.2	67.8	31.3	14.0

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	2.00	2.46	3.12	3.66	4.17	4.69	5.26	5.91	6.73	7.99	9.14
Feb	1.04	1.45	2.09	2.65	3.22	3.81	4.48	5.27	6.31	7.96	9.51
Mar	1.00	1.44	2.14	2.79	3.44	4.13	4.91	5.86	7.10	9.09	10.97
Apr	.44	.69	1.12	1.53	1.97	2.44	2.98	3.65	4.55	6.02	7.43
May	.66	.93	1.36	1.75	2.14	2.55	3.01	3.56	4.29	5.45	6.54
Jun	1.15	1.47	1.95	2.36	2.75	3.15	3.59	4.10	4.76	5.78	6.73
Jul	.95	1.37	2.05	2.67	3.30	3.97	4.72	5.63	6.82	8.74	10.56
Aug	1.05	1.43	2.02	2.54	3.05	3.59	4.19	4.90	5.83	7.29	8.66
Sep	.35	.79	1.41	1.96	2.52	3.13	3.83	4.66	5.78	7.59	9.32
Oct	.20	.37	.71	1.07	1.46	1.91	2.46	3.14	4.09	5.69	7.26
Nov	.76	1.06	1.53	1.94	2.36	2.80	3.29	3.87	4.63	5.85	6.99
Dec	.86	1.23	1.82	2.36	2.90	3.47	4.12	4.90	5.92	7.55	9.10
Ann	31.71	34.41	37.89	40.54	42.91	45.20	47.57	50.19	53.39	58.03	62.06

\+ 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: 1956-2001
(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	.2	.0	#	0	2.1	1977	18	3.9	1977	#	1977	12	#	1977	.2	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.6	.0	#	0	11.0	1973	10	14.0	1973	14	1973	11	4	1973	.1	.1	.1	@	@	.0	.0	.0	.0
Mar	.1	.0	0	0	2.0	1980	2	2.0	1980	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	#	1980	27	#+	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.9	.0	N/A	N/A	11.0	Feb 1973	10	14.0	Feb 1973	14	Feb 1973	11	4	Feb 1973	.3	.2	.1	@	@	.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	4/27	4/20	4/15	4/11	4/07	4/03	3/30	3/25	3/18
32	4/09	4/01	3/27	3/22	3/17	3/13	3/08	3/02	2/22
28	3/23	3/14	3/08	3/03	2/26	2/20	2/15	2/09	1/31
24	3/08	2/28	2/22	2/17	2/12	2/07	2/02	1/28	1/19
20	2/27	2/18	2/12	2/07	2/02	1/27	1/20	1/10	0/00
16	2/20	2/08	1/31	1/23	1/14	1/03	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	10/17	10/24	10/28	11/01	11/05	11/09	11/13	11/17	11/24
32	10/31	11/05	11/09	11/13	11/16	11/19	11/23	11/27	12/02
28	11/14	11/20	11/25	11/30	12/03	12/07	12/12	12/16	12/23
24	11/29	12/07	12/14	12/19	12/24	12/29	1/04	1/10	1/19
20	12/10	12/19	12/26	1/01	1/07	1/13	1/20	1/31	0/00
16	12/19	12/31	1/09	1/18	1/27	2/08	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	241	231	223	217	211	205	199	191	181
32	274	263	256	249	243	237	230	223	212
28	311	300	293	286	280	274	268	260	250
24	>365	333	323	315	309	303	297	290	280
20	>365	>365	>365	344	334	327	320	312	302
16	>365	>365	>365	>365	>365	>365	>365	339	320

***** 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	620	450	289	100	17	0	0	0	2	104	296	527	2405
60	477	321	171	35	2	0	0	0	0	44	185	384	1619
57	397	249	117	14	0	0	0	0	0	22	132	306	1237
55	347	205	86	7	0	0	0	0	0	13	102	259	1019
50	241	119	33	1	0	0	0	0	0	3	45	163	605
32	27	2	0	0	0	0	0	0	0	0	0	8	37

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	439	477	750	945	1205	1371	1512	1485	1289	1008	716	510	11707
55	47	36	123	262	492	681	799	772	599	308	128	48	4295
57	34	23	91	209	430	621	737	710	539	255	98	33	3780
60	21	12	53	139	340	531	644	617	449	183	60	19	3068
65	0	1	16	55	200	381	489	462	301	89	22	7	2023
70	0	0	3	13	93	237	334	307	165	31	6	0	1189

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	269	342	571	740	998	1159	1292	1262	1076	809	522	329	269	611	1182	1922	2920	4079	5371	6633	7709	8518	9040	9369
45	158	228	424	590	843	1009	1137	1107	926	654	377	209	158	386	810	1400	2243	3252	4389	5496	6422	7076	7453	7662
50	80	129	285	442	688	859	982	952	776	499	244	114	80	209	494	936	1624	2483	3465	4417	5193	5692	5936	6050
55	36	61	164	299	533	709	827	797	626	348	143	54	36	97	261	560	1093	1802	2629	3426	4052	4400	4543	4597
60	9	19	77	173	379	559	672	642	477	213	65	22	9	28	105	278	657	1216	1888	2530	3007	3220	3285	3307
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	160	214	365	486	668	785	870	862	734	528	336	197	160	374	739	1225	1893	2678	3548	4410	5144	5672	6008	6205

(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