

# Climatology of the United States

No. 20

1971-2000

Station: CORDELE, GA

COOP ID: 092266

Climate Division: GA 8

NWS Call Sign:

Elevation: 308 Feet Lat: 31° 59N Lon: 83° 47W

## 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	57.9	35.8	46.9	83+	1950	27	59.9	1974	-3	1985	21	37.3	1977	576	0	.0	.0	26.2	.2	10.6	@
Feb	62.4	38.8	50.6	84+	2001	25	57.7	1990	11	1951	2	41.5	1978	407	3	.0	.0	25.8	.2	7.0	.0
Mar	70.1	45.4	57.8	90+	1974	11	64.8	1997	15	1980	3	51.6	1971	249	24	.0	.1	30.7	.0	2.1	.0
Apr	77.9	52.5	65.2	96	1986	27	70.8	1999	30	1987	1	61.5	1983	69	76	.0	1.5	30.0	.0	.1	.0
May	85.3	61.0	73.2	100	1962	22	77.2	1998	36	1963	6	69.5	1976	6	258	.0	9.6	31.0	.0	.0	.0
Jun	91.1	68.3	79.7	106	1985	5	84.8	1998	45	1955	2	76.1	1997	0	441	1.8	21.4	30.0	.0	.0	.0
Jul	93.3	71.2	82.3	104+	1986	31	86.3	1986	57	1967	15	78.7	1971	0	534	3.4	26.7	31.0	.0	.0	.0
Aug	92.1	70.3	81.2	104+	1986	1	84.5	1999	56	1986	30	79.0	1976	0	502	1.8	24.7	31.0	.0	.0	.0
Sep	87.3	65.7	76.5	101	1990	8	79.3	1990	37	1967	30	73.4	1983	1	345	.2	14.5	30.0	.0	.0	.0
Oct	78.3	53.3	65.8	99	1954	6	71.6	1985	27	1952	30	59.5	1976	82	107	.0	1.5	31.0	.0	.2	.0
Nov	69.0	45.1	57.1	89	1961	1	64.4	1985	9	1950	26	48.2	1976	264	26	.0	.0	29.7	.0	3.4	.0
Dec	60.5	38.4	49.5	82+	1978	4	57.9	1971	8	1983	25	42.8	2000	489	7	.0	.0	27.5	.1	8.5	.0
Ann	77.1	53.8	65.5	106	Jun 1985	5	86.3	Jul 1986	-3	Jan 1985	21	37.3	Jan 1977	2143	2323	7.2	100.0	353.9	.5	31.9	@

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(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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# 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: CORDELE, GA**

**COOP ID: 092266**

**Climate Division: GA 8**

**NWS Call Sign:**

**Elevation: 308 Feet Lat: 31°59N**

**Lon: 83°47W**

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	5.11	4.91	3.66	1964	9	11.18	1991	1.19	1981	10.7	7.5	3.5	1.7	1.97	2.44	3.12	3.68	4.22	4.76	5.35	6.04	6.91	8.24	9.46
Feb	4.40	4.22	3.95	1995	11	7.96	1998	.77	1991	8.0	6.0	2.9	1.5	1.36	1.78	2.40	2.93	3.45	3.99	4.58	5.27	6.17	7.57	8.86
Mar	4.98	4.52	5.20	1998	8	10.08	1980	1.98+	1997	8.4	6.7	3.5	1.6	1.80	2.27	2.94	3.51	4.05	4.61	5.21	5.91	6.81	8.19	9.46
Apr	3.27	2.82	3.62	1997	28	8.14	1975	.41	1987	6.9	5.0	2.4	.9	.76	1.06	1.54	1.97	2.40	2.85	3.36	3.96	4.75	6.01	7.20
May	3.16	2.84	3.71	1976	15	9.82	1976	.70	1993	7.8	5.3	2.1	.8	.76	1.05	1.51	1.93	2.34	2.77	3.25	3.83	4.58	5.78	6.91
Jun	4.15	3.89	3.51	1989	9	9.71	1995	1.22	1986	9.9	7.3	2.8	1.0	1.30	1.69	2.28	2.78	3.26	3.77	4.32	4.96	5.80	7.10	8.30
Jul	4.64	4.23	4.08	1991	6	9.97	1991	.89	1986	10.7	7.7	3.0	1.3	1.47	1.91	2.56	3.12	3.66	4.22	4.83	5.55	6.48	7.92	9.25
Aug	3.47	3.04	3.20	1959	8	5.70	1976	1.77	1984	9.1	6.6	2.4	.9	1.69	1.99	2.39	2.72	3.02	3.32	3.64	4.01	4.46	5.15	5.77
Sep	3.69	2.91	9.28	1998	3	11.92	1998	.03	1984	7.7	5.4	2.3	1.0	.34	.60	1.10	1.61	2.17	2.81	3.56	4.50	5.79	7.94	10.05
Oct	2.07	1.72	4.90	1948	4	5.89	1976	.00+	1987	5.1	3.2	1.2	.8	.00	.18	.53	.86	1.20	1.58	2.03	2.57	3.32	4.55	5.76
Nov	3.41	3.30	4.13	1994	29	7.71	1997	.37	1991	7.3	5.0	1.8	1.0	.61	.91	1.41	1.88	2.35	2.86	3.45	4.15	5.09	6.61	8.05
Dec	3.81	2.90	4.20	1972	6	9.55	1997	.82	1980	8.3	5.4	2.6	1.0	1.00	1.36	1.92	2.40	2.88	3.38	3.94	4.60	5.45	6.81	8.08
Ann	46.16	45.66	9.28	Sep 1998	3	11.92	Sep 1998	.00+	Oct 1987	99.9	71.1	30.5	13.5	33.96	36.35	39.40	41.70	43.74	45.70	47.73	49.95	52.65	56.54	59.89

+ 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: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:  
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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**NWS Call Sign:**

**Elevation: 308 Feet**

**Lat: 31°59N**

**Lon: 83°47W**

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	0	0	3.5	1973	10	3.5	1973	0	0	0	0	0	@	@	@	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	.1	.0	N/A	N/A	3.5	Feb 1973	10	3.5	Feb 1973	0	0	0	0	0	@	@	@	.0	.0	.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

Complete documentation available from:

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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	4/17	4/10	4/05	4/01	3/28	3/24	3/20	3/15	3/08
32	3/30	3/23	3/19	3/15	3/11	3/07	3/03	2/27	2/20
28	3/13	3/06	3/01	2/25	2/21	2/16	2/12	2/07	1/31
24	3/03	2/23	2/17	2/12	2/07	2/02	1/28	1/21	1/12
20	2/21	2/12	2/05	1/30	1/23	1/16	1/05	0/00	0/00
16	2/04	1/24	1/13	12/31	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	10/11	10/19	10/24	10/29	11/02	11/06	11/11	11/16	11/23
32	10/28	11/03	11/07	11/11	11/15	11/18	11/22	11/26	12/02
28	11/07	11/16	11/22	11/28	12/03	12/08	12/13	12/19	12/28
24	11/27	12/08	12/16	12/22	12/29	1/04	1/11	1/20	2/02
20	12/16	12/27	1/04	1/11	1/18	1/26	2/08	0/00	0/00
16	12/26	1/09	1/22	2/11	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	247	237	230	224	218	212	206	199	189
32	273	264	258	253	248	243	238	232	223
28	316	305	297	290	284	278	271	264	253
24	>365	>365	333	323	316	309	303	295	285
20	>365	>365	>365	>365	>365	358	341	329	317
16	>365	>365	>365	>365	>365	>365	>365	>365	342

\* 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

Complete documentation available from:

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**Elevation: 308 Feet Lat: 31°59N Lon: 83°47W**

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	576	407	249	69	6	0	0	0	1	82	264	489	2143
60	437	279	142	20	0	0	0	0	0	31	159	348	1416
57	361	210	93	7	0	0	0	0	0	15	110	272	1068
55	315	170	67	3	0	0	0	0	0	8	82	228	873
50	218	92	23	0	0	0	0	0	0	1	33	138	505
32	23	1	0	0	0	0	0	0	0	0	0	5	29

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	484	522	798	997	1275	1431	1557	1525	1334	1047	752	546	12268
55	63	47	152	310	562	741	844	812	644	343	144	56	4718
57	47	30	116	254	500	681	782	750	584	287	112	38	4181
60	30	15	72	176	407	591	689	657	494	210	71	21	3433
65	0	3	24	76	258	441	534	502	345	107	26	7	2323
70	0	0	6	20	132	292	379	347	203	40	8	0	1427

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	320	389	625	802	1070	1214	1334	1302	1120	847	562	369	320	709	1334	2136	3206	4420	5754	7056	8176	9023	9585	9954
45	201	266	473	652	915	1064	1179	1147	970	692	414	244	201	467	940	1592	2507	3571	4750	5897	6867	7559	7973	8217
50	114	164	330	504	760	914	1024	992	820	538	286	146	114	278	608	1112	1872	2786	3810	4802	5622	6160	6446	6592
55	56	87	203	357	605	764	869	837	670	386	177	75	56	143	346	703	1308	2072	2941	3778	4448	4834	5011	5086
60	22	38	106	227	450	614	714	682	520	246	90	36	22	60	166	393	843	1457	2171	2853	3373	3619	3709	3745
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	192	244	398	529	724	819	898	883	769	566	359	224	192	436	834	1363	2087	2906	3804	4687	5456	6022	6381	6605

(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:  
[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

## 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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)