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: LUMPKIN 2 SE, GA **COOP ID: 095394**

Climate Division: GA 7 **NWS Call Sign:** **Elevation: 570 Feet** **Lat: 32˚02N** **Lon: 84˚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	56.0	33.0	44.5	85	1985	31	58.7	1974	-4	1985	21	34.0	1977	645	0	.0	.0	26.1	.2	13.2	@
Feb	60.7	34.3	47.5	85	1989	4	54.5	1990	5	1996	5	38.5	1978	490	0	.0	.0	25.7	.2	11.2	.0
Mar	67.5	40.3	53.9	90	1982	20	60.6	1997	13	1980	3	47.8	1999	355	11	.0	@	30.4	.0	5.5	.0
Apr	74.7	47.2	61.0	92+	1987	22	66.3	1991	26	1987	1	56.0	1983	147	26	.0	.4	30.0	.0	1.3	.0
May	81.0	56.3	68.7	99+	1979	22	73.8	2000	34	1997	5	65.1	1999	30	142	.0	3.8	31.0	.0	.0	.0
Jun	86.3	63.5	74.9	105	1978	29	79.5	1998	43	1984	1	67.9	1997	3	300	.4	16.1	30.0	.0	.0	.0
Jul	88.9	67.3	78.1	104+	1980	15	81.9	1986	52	1967	15	73.6	1997	0	406	1.0	22.4	31.0	.0	.0	.0
Aug	88.7	66.8	77.8	105	1980	20	80.4	1993	52+	1997	28	75.2	1992	0	394	.5	21.1	31.0	.0	.0	.0
Sep	84.8	62.4	73.6	100+	1980	16	77.4	1998	31	1967	30	70.8	1974	6	265	.1	11.2	30.0	.0	.0	.0
Oct	75.9	49.6	62.8	93	1977	1	68.1	1985	25	2001	28	56.7	1987	141	71	.0	1.0	31.0	.0	.8	.0
Nov	67.6	40.8	54.2	88	1961	1	61.8	1998	16	1969	15	46.5	1976	339	15	.0	.0	29.6	.0	6.3	.0
Dec	58.3	34.6	46.5	81+	1984	31	54.3	1971	-1	1983	25	39.0	1989	576	0	.0	.0	27.3	.1	11.6	@
Ann	74.2	49.7	62.0	105+	Aug 1980	20	81.9	Jul 1986	-4	Jan 1985	21	34.0	Jan 1977	2732	1630	2.0	76.0	353.1	.5	49.9	.0

\+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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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	5.31	5.14	3.36	1991	30	11.11	1991	1.20	1981
Feb	4.73	4.60	5.50	1975	17	9.62	1975	.64	2000
Mar	5.75	5.57	5.10	1998	8	10.25	1971	1.14	1997
Apr	3.81	3.69	4.25	1973	25	10.11	1973	.33	1987
May	3.23	3.10	3.35	1950	30	6.68	1978	.16+	2000
Jun	3.97	3.52	3.90	1972	20	9.28	1983	.68	1979
Jul	5.36	5.05	5.10	1981	4	19.75	1994	.95	1987
Aug	3.64	3.29	3.95	1976	8	9.30	1976	.75	1990
Sep	3.16	2.34	4.00	1998	30	11.10	1998	.03	1987
Oct	2.48	2.07	5.10	1993	30	8.80	1997	.00	1987
Nov	3.75	3.17	4.00+	1997	29	13.30	1992	.25	1998
Dec	4.05	3.21	7.23	1972	6	10.87	1972	.68	1980
Ann	49.24	49.45	7.23	Dec 1972	6	19.75	Jul 1994	.00	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.8	6.6	3.6	1.8
Feb	6.6	6.0	3.3	1.8
Mar	7.7	6.9	4.3	2.0
Apr	5.9	5.2	2.9	1.2
May	6.5	5.4	2.2	.8
Jun	7.5	7.0	2.9	1.2
Jul	8.4	7.4	3.5	1.4
Aug	6.3	5.7	2.6	.9
Sep	5.0	4.4	2.1	1.0
Oct	3.9	3.3	1.5	.7
Nov	5.3	4.6	2.3	1.3
Dec	6.2	5.4	2.8	1.2
Ann	77.1	67.9	34.0	15.3

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	1.96	2.45	3.17	3.77	4.34	4.92	5.56	6.29	7.23	8.68	10.00
Feb	1.24	1.69	2.37	2.97	3.57	4.19	4.88	5.70	6.78	8.46	10.04
Mar	2.14	2.68	3.45	4.10	4.71	5.34	6.02	6.81	7.81	9.36	10.77
Apr	.73	1.07	1.63	2.15	2.67	3.23	3.87	4.64	5.66	7.30	8.86
May	.65	.94	1.42	1.85	2.29	2.76	3.29	3.93	4.78	6.13	7.41
Jun	1.05	1.42	2.00	2.50	3.00	3.52	4.10	4.79	5.68	7.09	8.41
Jul	1.07	1.55	2.34	3.06	3.79	4.57	5.46	6.52	7.93	10.19	12.34
Aug	1.07	1.42	1.94	2.39	2.83	3.28	3.78	4.37	5.13	6.33	7.44
Sep	.16	.33	.71	1.13	1.61	2.19	2.89	3.80	5.08	7.26	9.45
Oct	.04	.16	.45	.78	1.18	1.65	2.23	2.98	4.05	5.89	7.74
Nov	.73	1.07	1.62	2.12	2.63	3.18	3.81	4.56	5.56	7.16	8.67
Dec	1.19	1.57	2.15	2.65	3.14	3.65	4.21	4.86	5.72	7.05	8.29
Ann	35.15	37.88	41.37	44.02	46.38	48.65	51.00	53.59	56.74	61.30	65.24

\+ 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

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(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	.0	.0	#	0	.0	0	0	.0	0	2	1977	31	#	1977	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	#	0	#	1980	2	#	1980	#	1980	2	#	1980	.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	#	.0	N/A	N/A	#	Mar 1980	2	#	Mar 1980	2	Jan 1977	31	#+	Mar 1980	.0	.0	.0	.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	5/01	4/25	4/21	4/18	4/14	4/11	4/08	4/04	3/29
32	4/20	4/14	4/10	4/07	4/04	3/31	3/28	3/24	3/18
28	3/30	3/23	3/18	3/14	3/10	3/06	3/02	2/26	2/19
24	3/17	3/09	3/03	2/27	2/22	2/17	2/13	2/07	1/30
20	3/03	2/23	2/17	2/11	2/06	2/01	1/27	1/20	1/10
16	2/23	2/13	2/05	1/30	1/22	1/14	12/29	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	10/10	10/15	10/18	10/21	10/24	10/27	10/30	11/03	11/08
32	10/15	10/22	10/27	10/31	11/04	11/08	11/13	11/18	11/25
28	10/26	11/03	11/09	11/14	11/18	11/23	11/28	12/04	12/12
24	11/10	11/20	11/27	12/03	12/08	12/14	12/19	12/26	1/05
20	11/27	12/07	12/14	12/20	12/26	1/01	1/08	1/16	1/28
16	12/18	12/30	1/08	1/17	1/26	2/06	2/25	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	213	206	200	196	192	188	183	178	171
32	238	230	224	219	214	209	204	198	190
28	282	272	265	258	252	246	240	233	223
24	316	307	300	294	288	283	277	270	260
20	>365	352	335	326	319	312	305	297	287
16	>365	>365	>365	>365	>365	>365	352	333	318

***** 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	645	490	355	147	30	3	0	0	6	141	339	576	2732
60	502	359	225	61	4	0	0	0	1	67	218	430	1867
57	422	283	163	30	1	0	0	0	0	38	159	346	1442
55	372	237	128	16	0	0	0	0	0	25	126	293	1197
50	263	143	59	3	0	0	0	0	0	7	59	182	716
32	35	4	0	0	0	0	0	0	0	0	0	8	47

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	423	439	679	869	1136	1287	1429	1417	1249	953	666	454	11001
55	47	28	94	195	423	597	716	704	559	265	102	26	3756
57	35	18	67	148	361	537	654	642	499	216	76	17	3270
60	22	9	37	89	272	447	561	549	410	153	44	9	2602
65	0	0	11	26	142	300	406	394	265	71	15	0	1630
70	0	0	0	3	55	167	257	240	139	24	4	0	889

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	266	330	541	698	955	1106	1245	1218	1060	783	508	308	266	596	1137	1835	2790	3896	5141	6359	7419	8202	8710	9018
45	155	212	390	548	800	956	1090	1063	910	628	367	195	155	367	757	1305	2105	3061	4151	5214	6124	6752	7119	7314
50	85	121	254	401	645	806	935	908	760	476	238	102	85	206	460	861	1506	2312	3247	4155	4915	5391	5629	5731
55	37	58	143	265	490	656	780	753	610	328	140	48	37	95	238	503	993	1649	2429	3182	3792	4120	4260	4308
60	8	20	63	144	336	506	625	598	460	194	62	18	8	28	91	235	571	1077	1702	2300	2760	2954	3016	3034
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	171	231	363	464	639	746	842	827	724	524	338	208	171	402	765	1229	1868	2614	3456	4283	5007	5531	5869	6077

(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

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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