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: MOULTRIE 2 ESE, GA **COOP ID: 096087**

Climate Division: GA 8 **NWS Call Sign:** **Elevation: 340 Feet** **Lat: 31˚10N** **Lon: 83˚45W**

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	60.4	39.9	50.2	85	1937	15	63.8	1974	0	1985	21	40.2	1977	477	4	.0	.0	27.3	.1	8.6	@
Feb	64.5	42.3	53.4	86	1930	25	58.8	1990	13	1996	5	42.8	1978	335	10	.0	.0	26.2	.1	5.4	.0
Mar	71.6	48.3	60.0	92+	1929	27	65.0	1997	17	1980	3	54.8	1971	189	32	.0	.0	30.7	.0	1.5	.0
Apr	78.2	53.5	65.9	94+	1986	27	71.1	1999	32+	1987	1	61.4	1993	60	86	.0	.7	30.0	.0	@	.0
May	84.9	61.6	73.3	101	1953	25	76.9	1998	41	1971	4	70.4	1988	3	257	.0	6.1	31.0	.0	.0	.0
Jun	89.6	67.8	78.7	104	1931	29	84.6	1998	43	1948	26	75.3	1976	0	411	.7	18.0	30.0	.0	.0	.0
Jul	91.4	70.9	81.2	105	1942	21	84.1	1986	54	1967	17	78.1	1975	0	502	1.1	24.4	31.0	.0	.0	.0
Aug	90.1	70.2	80.2	104	1938	26	83.1	1999	55	1986	31	76.4	1976	0	469	.6	22.2	31.0	.0	.0	.0
Sep	86.1	66.4	76.3	101	1927	16	78.9	1993	41	1967	29	73.4	1981	0	337	@	12.4	30.0	.0	.0	.0
Oct	77.9	56.0	67.0	97+	1951	6	72.1	1985	30	1964	21	60.7	1976	71	133	.0	1.6	31.0	.0	.0	.0
Nov	69.9	48.3	59.1	89+	1961	1	65.9	1985	15	1970	25	50.2	1976	213	36	.0	.0	29.9	.0	2.1	.0
Dec	62.6	42.0	52.3	85	1967	20	59.6	1971	8	1962	13	45.5	1989	406	12	.0	.0	28.6	@	6.6	.0
Ann	77.3	55.6	66.5	105	Jul 1942	21	84.6	Jun 1998	0	Jan 1985	21	40.2	Jan 1977	1754	2289	2.4	85.4	356.7	.2	24.2	@

\+ 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: 1926-2001

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

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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	5.69	5.15	3.92	1991	11	18.45	1991	1.36	1981
Feb	4.56	4.69	4.90	1944	14	10.18	1986	1.08	1976
Mar	5.61	5.17	4.80	1929	15	13.16	1984	1.03	1979
Apr	3.43	2.89	9.00	1948	1	11.73	1973	.20	1972
May	3.42	2.87	4.23	1956	6	14.44	1976	.53	1986
Jun	5.21	4.69	4.34	1991	18	11.25	1989	.93	1990
Jul	5.33	4.63	4.63	1971	12	11.24	1984	2.27	1978
Aug	4.64	3.71	5.84	1985	28	13.05	1994	.89	1998
Sep	3.84	2.86	6.20	2000	6	14.97	1998	.35	1991
Oct	2.39	1.85	4.85	1994	2	9.09	1994	.03	1987
Nov	3.19	2.76	4.10	1947	11	8.59	1997	.29	1991
Dec	3.62	3.31	6.45	1964	4	6.86	1981	.79	1984
Ann	50.93	50.47	9.00	Apr 1948	1	18.45	Jan 1991	.03	Oct 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.8	7.6	4.0	2.0
Feb	8.3	6.0	3.2	1.6
Mar	9.3	7.0	3.7	1.9
Apr	6.9	5.0	2.3	1.0
May	7.7	5.2	2.3	1.1
Jun	11.0	8.1	3.3	1.5
Jul	12.7	9.2	3.5	1.4
Aug	11.9	8.1	2.7	1.3
Sep	8.9	5.3	2.2	1.1
Oct	5.6	3.6	1.5	.6
Nov	7.8	4.9	2.2	.9
Dec	8.8	5.5	2.4	1.2
Ann	109.7	75.5	33.3	15.6

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	1.93	2.47	3.26	3.92	4.56	5.22	5.94	6.77	7.85	9.51	11.04
Feb	1.40	1.83	2.48	3.03	3.57	4.13	4.75	5.47	6.40	7.86	9.20
Mar	1.67	2.21	3.01	3.69	4.36	5.06	5.83	6.73	7.90	9.72	11.42
Apr	.33	.57	1.03	1.51	2.03	2.62	3.31	4.18	5.37	7.36	9.31
May	.63	.93	1.44	1.90	2.37	2.88	3.47	4.17	5.10	6.61	8.04
Jun	1.27	1.76	2.52	3.20	3.87	4.57	5.37	6.31	7.54	9.49	11.32
Jul	1.92	2.42	3.14	3.75	4.33	4.93	5.58	6.33	7.29	8.78	10.14
Aug	1.10	1.54	2.22	2.82	3.42	4.06	4.77	5.62	6.73	8.49	10.15
Sep	.26	.50	.98	1.51	2.10	2.78	3.60	4.65	6.11	8.57	11.01
Oct	.17	.32	.62	.95	1.32	1.74	2.25	2.90	3.80	5.31	6.82
Nov	.63	.92	1.39	1.82	2.25	2.72	3.24	3.88	4.72	6.07	7.35
Dec	1.05	1.39	1.91	2.36	2.80	3.25	3.76	4.35	5.13	6.33	7.46
Ann	36.52	39.31	42.89	45.61	48.02	50.34	52.74	55.40	58.61	63.27	67.29

\+ 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: 1926-2001
(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	#	.0	0	0	#	1986	27	#	1986	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1989	23	#	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1975	5	#	1975	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	1.0	1989	23	1.0	1989	1	1989	23	#	1989	.1	@	.0	.0	.0	@	.0	.0	.0
Ann	#	.0	N/A	N/A	1.0	Dec 1989	23	1.0	Dec 1989	1	Dec 1989	23	#	Dec 1989	.1	@	.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

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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	4/06	3/31	3/27	3/24	3/20	3/17	3/13	3/09	3/03
32	3/25	3/17	3/12	3/07	3/03	2/26	2/22	2/16	2/09
28	3/10	3/03	2/26	2/22	2/18	2/14	2/10	2/05	1/29
24	3/02	2/21	2/15	2/10	2/05	1/30	1/25	1/17	1/03
20	2/15	2/05	1/28	1/20	1/11	12/27	0/00	0/00	0/00
16	1/22	1/12	12/29	0/00	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	10/24	10/30	11/03	11/07	11/10	11/13	11/17	11/21	11/27
32	11/02	11/10	11/17	11/22	11/27	12/02	12/08	12/14	12/23
28	11/16	11/25	12/02	12/07	12/12	12/17	12/23	12/29	1/07
24	12/02	12/13	12/21	12/29	1/05	1/12	1/19	1/29	2/17
20	12/21	1/01	1/10	1/18	1/28	2/14	0/00	0/00	0/00
16	1/08	1/20	0/00	0/00	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	256	249	243	239	234	230	225	220	212
32	304	292	283	276	269	262	255	246	234
28	325	314	306	300	295	289	283	276	267
24	>365	>365	353	336	326	318	311	302	291
20	>365	>365	>365	>365	>365	>365	>365	349	330
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	477	335	189	60	3	0	0	0	0	71	213	406	1754
60	350	216	95	15	0	0	0	0	0	26	119	273	1094
57	283	158	54	5	0	0	0	0	0	12	76	207	795
55	243	126	35	2	0	0	0	0	0	7	53	170	636
50	159	61	9	0	0	0	0	0	0	1	18	92	340
32	12	0	0	0	0	0	0	0	0	0	0	1	13

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	576	599	867	1016	1277	1401	1525	1492	1326	1084	813	630	12606
55	94	81	188	328	564	711	812	779	636	378	176	86	4833
57	71	57	146	271	502	651	750	717	576	322	139	61	4263
60	46	30	93	191	409	561	657	624	486	242	92	35	3466
65	4	10	32	86	257	411	502	469	337	133	36	12	2289
70	3	0	8	24	125	263	347	314	192	56	11	1	1344

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	363	425	644	798	1047	1182	1297	1273	1117	871	607	422	363	788	1432	2230	3277	4459	5756	7029	8146	9017	9624	10046
45	235	296	492	648	892	1032	1142	1118	967	716	459	291	235	531	1023	1671	2563	3595	4737	5855	6822	7538	7997	8288
50	138	186	348	499	737	882	987	963	817	562	323	180	138	324	672	1171	1908	2790	3777	4740	5557	6119	6442	6622
55	72	101	219	352	582	732	832	808	667	408	204	100	72	173	392	744	1326	2058	2890	3698	4365	4773	4977	5077
60	28	44	111	217	427	582	677	653	517	268	113	46	28	72	183	400	827	1409	2086	2739	3256	3524	3637	3683
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	218	260	402	519	715	808	889	873	770	580	386	259	218	478	880	1399	2114	2922	3811	4684	5454	6034	6420	6679

(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