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: DALTON, GA **COOP ID: 092493**

Climate Division: GA 1 **NWS Call Sign:** **Elevation: 700 Feet** **Lat: 34˚45N** **Lon: 84˚57W**

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	49.0	29.9	39.5	79	1949	11	49.2	1974	-10+	1985	22	27.5	1977	793	0	.0	.0	15.5	2.6	19.3	.3
Feb	54.2	32.4	43.3	79	1989	16	50.9	1990	0+	1966	1	34.9	1978	608	0	.0	.0	17.9	1.0	15.6	.0
Mar	63.0	39.8	51.4	87+	2000	10	56.2	1973	7	1993	15	45.2	1971	427	6	.0	.0	27.0	.2	8.0	.0
Apr	71.9	46.9	59.4	91+	1986	28	65.3	1981	25	1987	1	55.0	1983	191	22	.0	.1	29.6	.0	1.4	.0
May	79.3	56.0	67.7	95+	1962	29	72.6	1987	33	1971	4	63.5	1997	57	138	.0	.7	31.0	.0	.0	.0
Jun	86.1	64.6	75.4	103	1988	27	78.4	1981	42	1984	1	71.4	1974	1	312	.1	8.1	30.0	.0	.0	.0
Jul	89.4	69.1	79.3	103	1952	28	83.7	1993	52	1967	15	75.0	1979	0	442	.7	15.8	31.0	.0	.0	.0
Aug	88.5	68.0	78.3	103+	1983	23	82.7	1980	51	1968	29	74.7	1992	0	411	.5	12.7	31.0	.0	.0	.0
Sep	82.8	61.8	72.3	102	1954	6	78.4	1998	32	1967	30	68.4	1975	15	234	.0	4.8	30.0	.0	.0	.0
Oct	73.0	48.6	60.8	94	1954	6	68.1	1984	23	1952	30	55.0	1976	182	51	.0	@	30.9	.0	1.1	.0
Nov	62.4	40.4	51.4	86	1961	3	61.1	1985	12	1955	29	43.2	1976	414	6	.0	.0	26.8	@	8.3	.0
Dec	52.6	33.0	42.8	78	1956	9	51.0	1984	-4+	1983	27	33.9	1989	689	0	.0	.0	20.0	.8	17.7	.1
Ann	71.0	49.2	60.1	103+	Jun 1988	27	83.7	Jul 1993	-10+	Jan 1985	22	27.5	Jan 1977	3377	1622	1.3	42.2	320.7	4.6	71.4	.4

\+ 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

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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	5.86	5.76	4.24	1954	16	9.66	1996	1.16	1986
Feb	4.93	4.92	3.48	1995	16	8.84	1990	.64	1978
Mar	6.34	5.87	4.30	1964	15	14.61	1980	1.65	1985
Apr	4.30	4.03	3.50	1996	21	8.69	1979	.76	1986
May	4.28	3.92	3.33	1973	28	8.58	1976	1.25	2000
Jun	4.38	4.11	3.75	1952	4	10.01	1989	.53	1988
Jul	4.76	4.71	3.52	1969	27	10.09	1979	1.58	1980
Aug	3.65	3.72	3.24	1966	13	8.16	1981	.30	1999
Sep	5.00	4.34	5.20	1973	14	11.53	1975	1.23	1999
Oct	3.31	2.92	4.00	1962	3	8.59	1995	.15	2000
Nov	4.79	4.33	3.41	1963	29	8.55	1983	2.25	1987
Dec	4.92	4.66	3.71	1961	12	9.51	1982	.80	1980
Ann	56.52	57.71	5.20	Sep 1973	14	14.61	Mar 1980	.15	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.1	8.3	4.3	1.9
Feb	8.8	6.9	3.6	1.7
Mar	10.9	8.6	4.0	2.2
Apr	8.5	6.3	2.9	1.3
May	8.7	6.8	3.0	1.3
Jun	9.8	7.3	3.0	1.3
Jul	10.1	7.6	3.6	1.6
Aug	8.6	6.2	2.4	1.0
Sep	8.5	6.3	3.1	1.6
Oct	6.6	4.9	2.2	1.1
Nov	9.4	6.8	3.4	1.5
Dec	9.8	7.5	3.7	1.6
Ann	110.8	83.5	39.2	18.1

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	2.44	2.97	3.72	4.34	4.92	5.51	6.14	6.87	7.79	9.19	10.47
Feb	1.53	2.00	2.70	3.30	3.87	4.47	5.13	5.90	6.90	8.46	9.90
Mar	2.15	2.75	3.63	4.37	5.08	5.81	6.61	7.55	8.75	10.61	12.32
Apr	1.29	1.70	2.31	2.84	3.35	3.88	4.47	5.15	6.04	7.43	8.72
May	1.38	1.79	2.39	2.90	3.39	3.90	4.46	5.11	5.95	7.26	8.47
Jun	1.24	1.66	2.28	2.83	3.36	3.92	4.54	5.26	6.21	7.68	9.06
Jul	1.89	2.33	2.96	3.47	3.95	4.45	4.98	5.60	6.38	7.57	8.66
Aug	1.01	1.35	1.88	2.34	2.79	3.26	3.78	4.40	5.20	6.46	7.64
Sep	1.05	1.51	2.24	2.91	3.58	4.30	5.11	6.08	7.36	9.41	11.34
Oct	.46	.73	1.21	1.67	2.15	2.68	3.29	4.05	5.06	6.72	8.32
Nov	2.08	2.51	3.11	3.60	4.06	4.52	5.02	5.59	6.31	7.41	8.40
Dec	1.51	1.98	2.68	3.27	3.85	4.46	5.12	5.89	6.90	8.46	9.91
Ann	42.29	45.09	48.66	51.35	53.72	56.00	58.35	60.93	64.05	68.55	72.41

\+ 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	.5	.0	#	0
Feb	1.6	.0	#	0
Mar	.1	.0	0	0
Apr	#	.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
Nov	#	.0	0	0
Dec	.1	.0	#	0
Ann	2.3	.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	6.0	1987	22	7.3	1987	#	1976	21	#	1976
Feb	5.5	1979	18	7.0+	1980	4	1998	5	#+	1998
Mar	1.0	1983	24	2.0	1983	0	0	0	0	0
Apr	#	1989	7	#	1989	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	#	1993	31	#	1993	0	0	0	0	0
Nov	#	1979	29	#+	1979	0	0	0	0	0
Dec	1.0	1971	3	1.0+	1973	1	1971	3	#+	1974
Ann	6.0	Jan 1987	22	7.3	Jan 1987	4	Feb 1998	5	#+	Feb 1998

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	.1	.0
Feb	.6	.5	.2	.1	.0
Mar	.1	.1	.0	.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	.2	.1	.0	.0	.0
Ann	1.1	.8	.3	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.1	.0	.0	.0
Mar	.0	.0	.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	.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	4/27	4/23	4/20	4/18	4/15	4/13	4/10	4/07	4/03
32	4/15	4/10	4/06	4/03	3/31	3/28	3/25	3/21	3/16
28	4/07	3/31	3/26	3/22	3/18	3/14	3/10	3/05	2/26
24	3/16	3/10	3/06	3/02	2/27	2/23	2/20	2/15	2/09
20	3/09	3/01	2/23	2/18	2/14	2/09	2/04	1/29	1/21
16	3/03	2/23	2/17	2/11	2/06	2/01	1/26	1/19	1/05

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	10/08	10/13	10/16	10/19	10/22	10/25	10/28	10/31	11/05
32	10/15	10/21	10/26	10/30	11/03	11/06	11/10	11/15	11/21
28	10/28	11/03	11/08	11/11	11/15	11/18	11/22	11/27	12/03
24	11/12	11/19	11/24	11/28	12/02	12/06	12/11	12/16	12/23
20	11/26	12/07	12/14	12/21	12/27	1/02	1/08	1/16	1/26
16	12/06	12/16	12/23	12/30	1/05	1/11	1/18	1/26	2/12

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	206	200	196	192	189	186	182	178	172
32	241	232	226	221	216	211	205	199	190
28	270	260	253	247	241	236	230	222	213
24	301	293	287	283	278	274	269	263	255
20	>365	336	325	317	310	304	297	289	278
16	>365	>365	353	336	326	319	311	303	292

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	793	608	427	191	57	1	0	0	15	182	414	689	3377
60	647	469	289	93	17	0	0	0	3	94	281	541	2434
57	559	391	218	52	7	0	0	0	1	57	211	453	1949
55	502	339	176	33	3	0	0	0	0	39	171	397	1660
50	370	221	93	7	0	0	0	0	0	12	91	271	1065
32	67	14	0	0	0	0	0	0	0	0	1	27	109

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	297	330	602	821	1105	1301	1465	1434	1209	892	582	361	10399
55	19	11	65	164	395	611	752	721	519	217	63	18	3555
57	14	7	44	123	336	551	690	659	460	174	43	12	3113
60	9	1	23	74	253	461	597	566	372	118	22	7	2503
65	0	0	6	22	138	312	442	411	234	51	6	0	1622
70	0	0	0	4	59	174	290	259	122	16	0	0	924

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	115	176	365	580	857	1058	1211	1181	967	637	348	160	115	291	656	1236	2093	3151	4362	5543	6510	7147	7495	7655
45	55	96	237	433	702	908	1056	1026	817	485	223	81	55	151	388	821	1523	2431	3487	4513	5330	5815	6038	6119
50	24	44	138	299	548	758	901	871	667	336	125	38	24	68	206	505	1053	1811	2712	3583	4250	4586	4711	4749
55	2	16	63	179	395	608	746	716	517	203	63	11	2	18	81	260	655	1263	2009	2725	3242	3445	3508	3519
60	0	0	25	90	254	458	591	561	369	104	18	1	0	0	25	115	369	827	1418	1979	2348	2452	2470	2471
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	68	122	229	364	560	726	836	818	653	404	218	95	68	190	419	783	1343	2069	2905	3723	4376	4780	4998	5093

(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