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: DAHLONEGA 1 W, GA **COOP ID: 092475**

Climate Division: GA 2 **NWS Call Sign:** **Elevation: 1,260 Feet** **Lat: 34˚32N** **Lon: 84˚00W**

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	49.1	26.2	37.7	76+	1975	31	48.3	1974	-12	1985	21	26.5	1977	848	0	.0	.0	15.9	1.4	20.6	.1
Feb	53.6	28.1	40.9	78	1998	28	46.9	1990	-1+	1958	18	33.2	1978	676	0	.0	.0	18.1	.8	17.4	.0
Mar	61.5	34.3	47.9	85	1995	24	53.2	1997	5	1993	15	42.3	1971	531	0	.0	.0	26.5	.2	11.2	.0
Apr	70.3	40.2	55.3	92+	1986	29	59.5	1981	24+	1992	4	49.9	1983	298	6	.0	.1	29.4	.0	3.5	.0
May	76.9	48.7	62.8	96	1941	29	68.4	1991	30+	1989	9	58.0	1997	130	62	.0	.1	31.0	.0	.2	.0
Jun	83.0	57.3	70.2	100+	1952	30	73.5	1981	41	1984	1	66.4	1974	15	170	.0	3.4	30.0	.0	.0	.0
Jul	86.3	61.9	74.1	103	1952	29	77.8	1993	50+	1937	1	71.1	1979	0	282	@	8.7	31.0	.0	.0	.0
Aug	84.8	61.7	73.3	100	1935	7	75.8	1987	49+	1997	24	70.3	1981	1	258	.0	5.3	31.0	.0	.0	.0
Sep	79.1	55.5	67.3	100+	1954	5	70.9	1998	32	1967	30	64.0	1981	38	106	.0	.9	30.0	.0	.0	.0
Oct	70.5	43.2	56.9	92+	1954	5	63.0	1984	23	1952	22	50.9	1987	270	17	.0	.0	30.9	.0	2.6	.0
Nov	61.1	35.1	48.1	83	1935	2	57.0	1985	3	1950	25	41.2	1976	509	1	.0	.0	26.6	@	11.5	.0
Dec	52.4	28.4	40.4	74+	1984	19	48.4	1984	-3	1962	13	32.7	1989	762	0	.0	.0	20.4	.6	19.9	.1
Ann	69.1	43.4	56.2	103	Jul 1952	29	77.8	Jul 1993	-12	Jan 1985	21	26.5	Jan 1977	4078	902	@	18.5	320.8	3.0	86.9	.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: 1930-2000

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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	7.11	7.16	5.72	1996	27	13.02	1996	.93	1981
Feb	5.85	6.06	5.17	1982	3	11.57	1982	.75	1978
Mar	6.92	6.14	6.28	1977	30	19.70	1980	1.44	1985
Apr	4.85	4.16	4.90	1998	17	13.62	1979	1.41	1992
May	5.51	5.17	5.49	1976	15	14.65	1976	2.50	1982
Jun	4.40	3.46	4.12	1995	3	11.23	1989	1.21	1990
Jul	5.18	4.67	4.18	1948	12	15.35	1984	.83	1993
Aug	4.87	3.91	4.73	1940	13	18.16	1978	.97	1976
Sep	4.66	4.29	5.44	1942	27	9.59	1977	.29	1984
Oct	4.40	3.61	5.41	1997	26	9.76	1986	.14	2000
Nov	5.42	4.98	3.51	1935	13	12.34	1992	1.76	1990
Dec	5.63	5.60	5.89	1961	12	12.43	1983	.99	1980
Ann	64.80	68.21	6.28	Mar 1977	30	19.70	Mar 1980	.14	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.2	9.0	5.0	2.4
Feb	9.9	7.5	4.1	2.0
Mar	11.4	8.7	4.2	2.3
Apr	9.5	6.9	3.4	1.5
May	10.9	7.9	3.8	1.6
Jun	11.0	7.3	3.2	1.0
Jul	11.1	8.3	3.5	1.4
Aug	11.1	7.5	2.9	1.3
Sep	9.4	6.5	3.2	1.5
Oct	7.4	5.2	2.7	1.5
Nov	9.8	7.5	3.6	2.0
Dec	11.2	8.2	4.3	1.8
Ann	124.9	90.5	43.9	20.3

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	2.88	3.53	4.46	5.22	5.93	6.66	7.45	8.35	9.50	11.26	12.85
Feb	2.00	2.55	3.36	4.04	4.69	5.37	6.11	6.96	8.07	9.77	11.34
Mar	1.88	2.53	3.53	4.40	5.26	6.16	7.16	8.34	9.87	12.28	14.53
Apr	1.40	1.86	2.56	3.16	3.74	4.36	5.03	5.83	6.86	8.48	9.98
May	2.01	2.52	3.27	3.90	4.49	5.10	5.76	6.53	7.51	9.03	10.42
Jun	1.39	1.81	2.43	2.96	3.47	4.00	4.58	5.26	6.14	7.50	8.77
Jul	1.10	1.58	2.34	3.03	3.72	4.46	5.30	6.30	7.62	9.73	11.73
Aug	1.11	1.56	2.28	2.92	3.55	4.23	4.99	5.90	7.09	8.99	10.78
Sep	.89	1.31	1.99	2.62	3.27	3.95	4.74	5.68	6.93	8.95	10.86
Oct	.55	.90	1.52	2.13	2.78	3.50	4.34	5.37	6.77	9.07	11.30
Nov	2.22	2.72	3.42	3.99	4.54	5.09	5.68	6.36	7.23	8.55	9.76
Dec	1.70	2.23	3.03	3.72	4.39	5.08	5.85	6.75	7.91	9.72	11.40
Ann	49.16	52.26	56.20	59.15	61.76	64.26	66.83	69.66	73.06	77.97	82.18

\+ 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: 1930-2000
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	.8	.0	#	0
Feb	.4	.0	#	0
Mar	.2	.0	#	0
Apr	#	.0	0	0
May	.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
Dec	.2	.0	#	0
Ann	1.6	.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	5.5	1987	22	7.0	1987	4	1996	12	1	1996
Feb	3.0	1985	12	3.0	1985	3	1993	26	#+	1997
Mar	2.5	1993	13	2.5	1993	3	1993	14	#+	1996
Apr	#	1987	3	#	1987	0	0	0	0	0
May	.0	0	0	.0	0	#	1988	11	#	1988
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	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1996	10	#+	1996	#	1996	10	#	1996
Dec	2.5	1989	10	2.5	1989	1	1997	30	#	1997
Ann	5.5	Jan 1987	22	7.0	Jan 1987	4	Jan 1996	12	1	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.2	.1	.1	.0
Feb	.4	.2	.1	.0	.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	.1	.1	.0	.0	.0
Ann	1.0	.6	.2	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	.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	.0
Ann	.3	@	.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	5/14	5/09	5/05	5/01	4/28	4/25	4/22	4/18	4/12
32	5/04	4/27	4/22	4/18	4/14	4/10	4/06	4/01	3/26
28	4/10	4/05	4/01	3/29	3/25	3/22	3/19	3/15	3/10
24	3/26	3/20	3/15	3/12	3/08	3/04	3/01	2/24	2/18
20	3/11	3/04	2/26	2/22	2/18	2/13	2/09	2/04	1/27
16	3/05	2/25	2/19	2/13	2/08	2/03	1/29	1/23	1/14

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	9/30	10/05	10/08	10/11	10/13	10/16	10/19	10/22	10/27
32	10/09	10/14	10/18	10/22	10/25	10/28	11/01	11/05	11/10
28	10/24	10/30	11/02	11/06	11/09	11/12	11/15	11/19	11/25
24	11/06	11/12	11/17	11/21	11/25	11/29	12/02	12/07	12/14
20	11/19	11/27	12/03	12/07	12/12	12/17	12/21	12/27	1/04
16	12/01	12/11	12/18	12/24	12/29	1/04	1/10	1/17	1/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	187	180	176	171	167	163	159	154	147
32	219	210	204	198	193	188	182	175	166
28	251	243	237	232	228	223	218	212	204
24	285	277	271	266	261	256	251	245	237
20	327	316	309	303	297	291	284	277	266
16	>365	344	332	325	319	313	307	300	291

***** 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	848	676	531	298	130	15	0	1	38	270	509	762	4078
60	693	536	381	171	55	2	0	0	8	155	367	607	2975
57	609	452	297	111	28	0	0	0	2	103	287	518	2407
55	551	398	245	79	16	0	0	0	1	76	238	461	2065
50	412	269	138	25	3	0	0	0	0	28	137	321	1333
32	81	16	1	0	0	0	0	0	0	0	2	33	133

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	256	264	494	698	955	1146	1304	1280	1059	770	484	294	9004
55	13	2	24	87	258	456	591	567	370	133	30	8	2539
57	9	0	15	59	207	396	529	505	311	98	19	3	2151
60	0	0	6	28	142	307	436	412	226	58	8	0	1623
65	0	0	0	6	62	170	282	258	106	17	1	0	902
70	0	0	0	0	18	68	142	120	31	3	0	0	382

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	96	143	304	506	751	957	1097	1069	854	565	296	132	96	239	543	1049	1800	2757	3854	4923	5777	6342	6638	6770
45	43	71	183	360	596	807	942	914	704	410	183	63	43	114	297	657	1253	2060	3002	3916	4620	5030	5213	5276
50	18	24	95	229	441	657	787	759	554	268	96	26	18	42	137	366	807	1464	2251	3010	3564	3832	3928	3954
55	0	3	34	123	294	507	632	604	405	148	39	6	0	3	37	160	454	961	1593	2197	2602	2750	2789	2795
60	0	0	5	54	162	357	477	449	264	65	7	0	0	0	5	59	221	578	1055	1504	1768	1833	1840	1840
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	62	105	206	328	481	641	755	740	563	355	192	89	62	167	373	701	1182	1823	2578	3318	3881	4236	4428	4517

(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