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: SANDERSVILLE, GA **COOP ID: 097777**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 435 Feet** **Lat: 32˚58N** **Lon: 82˚48W**

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	55.8	33.9	44.9	80+	1975	30	57.8	1974	-3+	1985	22	34.7	1977	633	0	.0	.0	22.0	.5	14.3	.1
Feb	60.4	35.5	48.0	85	1957	5	54.5	1990	7	1996	6	39.7	1978	477	0	.0	.0	23.0	.2	10.9	.0
Mar	68.0	42.6	55.3	90	1974	10	61.5	1997	14	1980	3	50.2	1971	313	12	.0	@	29.8	@	4.7	.0
Apr	75.2	49.1	62.2	94	1986	28	66.4	1999	26	1983	20	58.2	1993	123	36	.0	.2	29.9	.0	.5	.0
May	82.2	57.8	70.0	97	1962	28	74.1	1998	36	1971	4	66.1	1997	25	181	.0	3.4	31.0	.0	.0	.0
Jun	88.5	66.0	77.3	102	1978	28	81.3	1981	45	1984	1	73.9	1997	0	367	.3	12.6	30.0	.0	.0	.0
Jul	91.4	70.0	80.7	107	1986	22	85.1	1993	54	1983	9	78.2+	1994	0	487	1.3	19.0	31.0	.0	.0	.0
Aug	89.8	69.0	79.4	102+	1995	19	83.2	1999	56+	1986	31	76.3	1994	0	446	.6	14.7	31.0	.0	.0	.0
Sep	84.9	63.5	74.2	102	1957	2	79.2	1980	35	1967	30	71.5	1994	4	280	.0	6.2	30.0	.0	.0	.0
Oct	75.8	51.4	63.6	92+	1986	6	70.2	1984	24+	1976	29	57.1	1987	122	78	.0	.3	31.0	.0	.4	.0
Nov	66.9	42.5	54.7	86+	1961	2	62.8	1985	18	1970	25	47.5	1976	325	14	.0	.0	29.0	.0	6.1	.0
Dec	58.6	36.1	47.4	83	1956	14	55.2	1971	4	1962	13	39.2	2000	549	2	.0	.0	23.9	.1	11.9	.0
Ann	74.8	51.5	63.1	107	Jul 1986	22	85.1	Jul 1993	-3+	Jan 1985	22	34.7	Jan 1977	2571	1903	2.2	56.4	341.6	.8	48.8	.1

\+ 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: 1955-2001

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

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	5.01	4.92	2.99	1978	25	9.60	1987	.85	1981
Feb	4.39	4.36	4.34	1998	4	8.53	1998	.25	2000
Mar	5.08	4.66	4.50	1994	25	13.45	1980	.58	1985
Apr	3.19	2.76	2.64	1964	9	7.36	1975	.44	1999
May	2.78	2.30	3.25	1984	29	7.06	1976	.36	1993
Jun	3.63	2.83	4.71	1965	8	8.10	1994	.55	1979
Jul	4.32	3.73	3.42	1982	10	9.24	1994	1.18	2000
Aug	4.63	3.77	5.14	1992	13	13.77	1992	.85	1980
Sep	3.84	3.36	4.52	1963	29	10.31	1999	.32	1991
Oct	2.68	2.04	5.69	1996	1	9.99	1990	.02	1987
Nov	3.22	2.91	5.06	1985	22	8.41	1992	.59	1981
Dec	3.65	3.30	3.78	1998	25	8.16	1981	.51	1980
Ann	46.42	45.91	5.69	Oct 1996	1	13.77	Aug 1992	.02	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.8	7.8	3.9	1.5
Feb	8.7	6.3	2.9	1.2
Mar	9.8	6.9	3.4	1.5
Apr	7.2	5.2	2.2	1.1
May	8.3	5.2	2.0	.7
Jun	9.6	6.5	2.3	1.0
Jul	10.7	7.1	3.1	1.3
Aug	9.5	6.7	3.1	1.3
Sep	7.8	5.8	2.2	1.1
Oct	5.8	3.9	1.6	.9
Nov	7.5	5.2	2.3	.8
Dec	9.5	6.1	2.6	.9
Ann	105.2	72.7	31.6	13.3

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	2.08	2.54	3.18	3.71	4.21	4.71	5.25	5.88	6.67	7.87	8.97
Feb	1.07	1.48	2.12	2.69	3.26	3.85	4.52	5.31	6.34	7.98	9.52
Mar	1.25	1.73	2.47	3.13	3.78	4.47	5.24	6.15	7.35	9.24	11.01
Apr	.51	.78	1.25	1.69	2.14	2.64	3.20	3.89	4.82	6.32	7.76
May	.49	.73	1.14	1.52	1.91	2.33	2.80	3.39	4.16	5.41	6.60
Jun	.67	1.00	1.53	2.02	2.53	3.07	3.68	4.43	5.42	7.01	8.53
Jul	1.24	1.65	2.27	2.80	3.33	3.87	4.48	5.19	6.11	7.56	8.90
Aug	1.32	1.76	2.42	3.00	3.56	4.15	4.80	5.57	6.57	8.13	9.58
Sep	.37	.65	1.17	1.71	2.29	2.94	3.72	4.69	6.01	8.22	10.38
Oct	.12	.26	.56	.91	1.33	1.82	2.42	3.21	4.32	6.24	8.16
Nov	.71	1.01	1.48	1.91	2.33	2.79	3.29	3.90	4.71	5.98	7.19
Dec	1.05	1.40	1.92	2.37	2.81	3.27	3.78	4.38	5.16	6.38	7.51
Ann	33.35	35.89	39.14	41.60	43.78	45.89	48.06	50.47	53.37	57.59	61.23

\+ 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: 1955-2001
(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	.3	.0	0	0	3.5	1976	17	3.5	1976	0	0	0	0	0	.2	.2	@	.0	.0	.0	.0	.0	.0
Feb	.8	.0	0	0	12.0	1973	10	12.0	1973	0	0	0	0	0	.2	.1	@	@	@	.0	.0	.0	.0
Mar	.1	.0	0	0	2.8	1980	2	2.8	1980	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	.1	.0	0	0	2.0	1993	23	2.0	1993	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Ann	1.3	.0	N/A	N/A	12.0	Feb 1973	10	12.0	Feb 1973	0	0	0	0	0	.4	.3	@	@	@	.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	4/23	4/18	4/14	4/11	4/08	4/05	4/02	3/29	3/24
32	4/11	4/04	3/30	3/26	3/22	3/18	3/14	3/09	3/02
28	3/30	3/22	3/16	3/11	3/07	3/02	2/25	2/19	2/11
24	3/10	3/03	2/25	2/20	2/16	2/11	2/07	2/01	1/24
20	3/04	2/22	2/16	2/10	2/04	1/29	1/22	1/12	0/00
16	2/14	2/05	1/29	1/23	1/16	1/08	12/24	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	10/08	10/13	10/17	10/21	10/24	10/28	10/31	11/04	11/10
32	10/23	10/29	11/03	11/07	11/10	11/14	11/18	11/23	11/29
28	10/31	11/09	11/15	11/21	11/26	12/01	12/06	12/12	12/21
24	11/14	11/24	12/02	12/08	12/14	12/20	12/27	1/03	1/14
20	12/04	12/14	12/21	12/28	1/03	1/09	1/16	1/26	0/00
16	12/23	1/02	1/09	1/17	1/24	2/03	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	220	213	207	203	199	194	190	184	177
32	260	251	244	238	233	227	221	215	205
28	293	283	275	269	263	257	251	244	234
24	340	321	311	304	297	290	283	275	264
20	>365	>365	>365	340	327	318	310	301	290
16	>365	>365	>365	>365	>365	>365	357	338	323

***** 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	633	477	313	123	25	0	0	0	4	122	325	549	2571
60	489	343	188	45	4	0	0	0	0	55	204	407	1735
57	407	266	130	20	1	0	0	0	0	29	147	325	1325
55	357	218	97	10	0	0	0	0	0	18	114	276	1090
50	247	123	38	1	0	0	0	0	0	4	51	174	638
32	28	2	0	0	0	0	0	0	0	0	0	8	38

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	426	449	722	903	1179	1356	1510	1469	1266	980	680	484	11424
55	42	22	106	223	466	666	797	756	576	284	104	38	4080
57	31	13	76	173	405	606	735	694	516	234	76	26	3585
60	19	6	42	109	315	516	642	601	426	166	44	14	2900
65	0	0	12	36	181	367	487	446	280	78	14	2	1903
70	0	0	1	7	82	223	332	291	148	27	3	0	1114

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	224	283	504	676	944	1118	1257	1216	1021	737	447	271	224	507	1011	1687	2631	3749	5006	6222	7243	7980	8427	8698
45	128	178	357	527	789	968	1102	1061	871	582	311	164	128	306	663	1190	1979	2947	4049	5110	5981	6563	6874	7038
50	66	96	227	382	634	818	947	906	721	428	195	92	66	162	389	771	1405	2223	3170	4076	4797	5225	5420	5512
55	28	47	129	247	480	668	792	751	571	285	107	45	28	75	204	451	931	1599	2391	3142	3713	3998	4105	4150
60	6	14	61	137	327	518	637	596	422	164	46	17	6	20	81	218	545	1063	1700	2296	2718	2882	2928	2945
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	136	185	317	435	628	767	864	844	698	474	281	166	136	321	638	1073	1701	2468	3332	4176	4874	5348	5629	5795

(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