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: MIDVILLE EXP STA, GA **COOP ID: 095863**

Climate Division: GA 6 **NWS Call Sign:** **Elevation: 280 Feet** **Lat: 32˚53N** **Lon: 82˚13W**

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	58.9	35.9	47.4	81	1975	30	61.0	1974	-1	1985	21	37.8	1977	558	3	.0	.0	24.7	.3	13.7	@
Feb	63.0	38.1	50.6	84	1989	17	58.8	1990	9	1958	17	41.9	1978	411	7	.0	.0	24.8	.2	9.4	.0
Mar	70.7	45.6	58.2	90+	1977	31	63.9	1997	10	1980	2	51.6	1971	241	29	.0	.1	30.2	.0	3.1	.0
Apr	77.5	51.5	64.5	95	1986	28	68.6	1999	30	1992	5	59.0	1983	90	75	.0	.7	30.0	.0	.1	.0
May	84.4	60.0	72.2	97+	1978	26	75.9+	2000	39	1989	8	67.6	1992	13	235	.0	5.0	31.0	.0	.0	.0
Jun	90.2	66.4	78.3	104	1998	28	83.0	1998	44	1988	5	73.2	1972	0	398	1.0	16.4	30.0	.0	.0	.0
Jul	92.7	69.7	81.2	105+	1986	21	86.3	1986	53	1988	7	77.4	1994	0	502	2.4	22.5	31.0	.0	.0	.0
Aug	91.0	68.5	79.8	105	1983	21	84.1	1987	55+	1986	30	75.7	1994	0	457	.9	19.0	31.0	.0	.0	.0
Sep	86.5	63.6	75.1	100+	1999	6	81.1	1980	38	1967	30	71.8	1979	3	305	.1	9.1	30.0	.0	.0	.0
Oct	78.2	52.8	65.5	95+	1986	5	71.7	1985	21	1976	29	60.3	1987	94	109	.0	.7	31.0	.0	.4	.0
Nov	69.4	44.7	57.1	89	1983	1	66.4	1985	14	1970	24	49.7	1976	265	27	.0	.0	29.6	.0	4.8	.0
Dec	60.6	38.4	49.5	84	1984	19	58.4	1971	6	1962	13	39.4	1989	492	12	.0	.0	25.5	.2	10.9	.0
Ann	76.9	52.9	65.0	105+	Jul 1986	21	86.3	Jul 1986	-1	Jan 1985	21	37.8	Jan 1977	2167	2159	4.4	73.5	348.8	.7	42.4	@

\+ 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: 1957-2001

(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	4.94	4.49	5.50	1982	4	10.01	1991	.59	1981
Feb	4.06	4.23	3.20	1973	2	7.91	1979	1.24	1991
Mar	4.54	4.11	4.90	1980	13	13.51	1980	1.20	1985
Apr	3.08	2.89	3.64	1975	14	8.82	1998	.54	1995
May	2.96	2.83	4.90	1969	15	6.83	1984	.79	1981
Jun	4.06	3.30	3.35	1995	6	8.74	1983	.60	1990
Jul	4.13	3.68	4.70	1968	4	10.04	1989	1.21	1980
Aug	4.54	4.00	6.43	1970	8	9.38	1986	.66	1980
Sep	3.50	3.05	7.25	1957	19	7.60	1988	.09	1984
Oct	3.01	2.53	8.19	1990	12	14.22	1990	.04	1974
Nov	2.89	2.66	3.75	1985	22	10.03	1985	.42	1991
Dec	3.19	2.74	4.01	1972	6	8.48	1981	.56	1988
Ann	44.90	45.34	8.19	Oct 1990	12	14.22	Oct 1990	.04	Oct 1974

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.8	6.8	3.2	1.3
Feb	7.3	5.4	2.8	1.4
Mar	8.1	6.2	3.1	1.5
Apr	6.7	4.9	2.1	1.0
May	7.8	5.4	2.1	.8
Jun	8.7	6.5	2.8	1.2
Jul	9.6	6.8	2.8	1.1
Aug	8.9	6.8	3.2	1.4
Sep	6.5	4.5	2.3	.9
Oct	5.1	3.4	1.7	.9
Nov	6.5	4.2	1.8	.8
Dec	7.8	5.4	2.2	.8
Ann	92.8	66.3	30.1	13.1

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	1.70	2.17	2.85	3.42	3.97	4.54	5.16	5.88	6.80	8.23	9.55
Feb	1.34	1.72	2.29	2.77	3.23	3.71	4.23	4.85	5.63	6.85	7.98
Mar	1.37	1.80	2.45	3.00	3.54	4.10	4.72	5.44	6.38	7.84	9.19
Apr	.65	.93	1.39	1.80	2.21	2.65	3.15	3.74	4.53	5.79	6.98
May	.73	1.00	1.43	1.82	2.20	2.60	3.05	3.58	4.28	5.38	6.42
Jun	.98	1.36	1.95	2.48	3.00	3.56	4.18	4.92	5.89	7.42	8.86
Jul	1.14	1.53	2.12	2.64	3.15	3.68	4.27	4.97	5.88	7.30	8.63
Aug	1.20	1.63	2.29	2.86	3.43	4.03	4.69	5.48	6.50	8.12	9.63
Sep	.34	.59	1.06	1.55	2.08	2.68	3.38	4.27	5.48	7.50	9.47
Oct	.12	.26	.59	.98	1.44	2.00	2.69	3.59	4.87	7.09	9.32
Nov	.65	.92	1.35	1.73	2.11	2.51	2.96	3.51	4.22	5.36	6.43
Dec	.84	1.14	1.61	2.01	2.41	2.83	3.30	3.85	4.57	5.70	6.76
Ann	33.48	35.73	38.59	40.74	42.65	44.48	46.37	48.44	50.95	54.56	57.67

\+ 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: 1957-2001
(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	.1	.0	0	0	1.5	1977	19	1.5	1977	0	0	0	0	0	.1	.1	.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	0	0	.0	0	0	.0	0	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.5	Jan 1977	19	1.5	Jan 1977	0	0	0	0	0	.1	.1	.0	.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	4/20	4/14	4/10	4/06	4/03	3/30	3/27	3/23	3/17
32	4/02	3/27	3/22	3/17	3/14	3/10	3/05	3/01	2/22
28	3/17	3/11	3/06	3/02	2/26	2/22	2/18	2/13	2/07
24	3/09	3/01	2/23	2/17	2/13	2/08	2/03	1/28	1/19
20	2/25	2/17	2/11	2/06	2/01	1/27	1/20	1/07	0/00
16	2/14	2/04	1/29	1/22	1/15	1/06	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	10/06	10/13	10/18	10/22	10/26	10/30	11/03	11/08	11/14
32	10/21	10/28	11/02	11/06	11/10	11/14	11/19	11/24	12/01
28	11/03	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/12
24	11/18	11/28	12/05	12/11	12/17	12/23	12/29	1/05	1/15
20	12/06	12/15	12/21	12/26	1/01	1/07	1/14	1/28	0/00
16	12/18	12/30	1/08	1/17	1/26	2/09	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	231	222	216	210	205	200	195	188	179
32	269	259	252	246	241	236	230	223	213
28	292	284	278	273	269	264	259	253	245
24	348	329	318	310	303	296	288	279	267
20	>365	>365	>365	352	334	324	316	307	296
16	>365	>365	>365	>365	>365	>365	354	338	322

***** 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	558	411	241	90	13	0	0	0	3	94	265	492	2167
60	419	285	138	31	2	0	0	0	0	38	161	355	1429
57	343	219	91	13	0	0	0	0	0	19	112	282	1079
55	297	180	65	7	0	0	0	0	0	11	84	240	884
50	202	103	23	0	0	0	0	0	0	2	35	152	517
32	18	2	0	0	0	0	0	0	0	0	0	8	28

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	496	522	810	975	1245	1388	1525	1480	1292	1039	752	551	12075
55	62	57	162	292	532	698	812	767	602	337	146	69	4536
57	46	39	126	238	470	638	750	705	542	282	114	50	4000
60	28	21	80	165	379	548	657	612	452	208	73	30	3253
65	3	7	29	75	235	398	502	457	305	109	27	12	2159
70	0	0	8	22	119	255	347	302	171	44	8	0	1276

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	253	312	553	727	996	1153	1281	1232	1050	778	508	307	253	565	1118	1845	2841	3994	5275	6507	7557	8335	8843	9150
45	149	199	401	577	841	1003	1126	1077	900	623	363	192	149	348	749	1326	2167	3170	4296	5373	6273	6896	7259	7451
50	77	111	265	428	686	853	971	922	750	470	239	107	77	188	453	881	1567	2420	3391	4313	5063	5533	5772	5879
55	32	53	154	288	532	703	816	767	600	320	135	53	32	85	239	527	1059	1762	2578	3345	3945	4265	4400	4453
60	5	18	69	165	379	553	661	612	450	192	66	20	5	23	92	257	636	1189	1850	2462	2912	3104	3170	3190
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	158	208	345	464	669	782	864	842	712	506	324	192	158	366	711	1175	1844	2626	3490	4332	5044	5550	5874	6066

(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