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: EASTMAN 1 W, GA **COOP ID: 092966**

Climate Division: GA 5 **NWS Call Sign:** **Elevation: 400 Feet** **Lat: 32˚12N** **Lon: 83˚12W**

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	57.8	36.1	47.0	83	1949	12	60.3	1974	-2	1985	21	37.0	1977	571	0	.0	.0	24.0	.2	11.8	@
Feb	62.3	38.4	50.4	84+	1962	28	56.3	1990	10	1996	5	42.3	1978	412	2	.0	.0	24.1	.2	8.1	.0
Mar	70.1	45.8	58.0	92	1955	13	64.6	1997	15	1980	3	52.2	1996	243	24	.0	.0	30.1	.0	2.4	.0
Apr	77.2	51.6	64.4	95	1986	30	69.0	1981	29	1987	4	58.5	1987	93	75	.0	.7	29.9	.0	.1	.0
May	84.5	60.3	72.4	102	1953	31	76.2	1998	39	1971	4	68.9	1992	9	238	.0	5.8	31.0	.0	.0	.0
Jun	90.1	67.7	78.9	110	1954	28	83.9	1981	45	1984	1	74.3	1997	0	416	1.0	17.2	30.0	.0	.0	.0
Jul	92.0	70.9	81.5	109	1952	24	85.2	1981	56+	1970	6	78.5	1975	0	510	1.5	22.4	31.0	.0	.0	.0
Aug	91.3	69.8	80.6	105	1954	17	83.8	1980	52	1969	26	77.9	1994	0	481	1.1	21.8	31.0	.0	.0	.0
Sep	87.1	64.7	75.9	102	1954	5	80.1	1980	36	1967	30	73.0	2000	1	328	.1	11.7	30.0	.0	.0	.0
Oct	78.6	53.3	66.0	102	1954	5	72.0	1984	28	1976	29	59.6	1987	84	114	.0	1.3	31.0	.0	.1	.0
Nov	69.8	45.4	57.6	89	1961	3	64.7	1985	12	1950	25	49.8	1976	249	26	.0	.0	29.6	.0	3.3	.0
Dec	60.9	38.6	49.8	85+	1956	18	58.6	1971	4	1962	13	40.5	1989	483	10	.0	.0	26.3	.1	8.9	.0
Ann	76.8	53.6	65.2	110	Jun 1954	28	85.2	Jul 1981	-2	Jan 1985	21	37.0	Jan 1977	2145	2224	3.7	80.9	348.0	.5	34.7	@

\+ 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

Issue Date: February 2004

(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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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	5.05	4.75	4.00	1993	8	10.31	1987	.57	1989
Feb	4.38	4.06	3.87	1973	2	8.40	1992	.84	1991
Mar	4.84	4.79	3.40	1959	6	10.01	1980	1.68	1997
Apr	3.58	3.44	5.08	1981	1	7.69	1973	.30	1987
May	2.93	2.71	3.50	1994	4	7.84	1976	.23	1977
Jun	4.53	3.76	5.25	1995	6	11.33	1995	.60	1998
Jul	5.12	4.86	3.35	1949	16	9.56	1991	1.36	1980
Aug	3.90	4.10	3.10	1961	20	8.93	1996	.97	1972
Sep	3.33	2.70	4.43	1953	26	10.51	1998	.13	1972
Oct	2.73	1.84	4.41	1990	12	9.52	1990	.00+	1987
Nov	3.18	2.78	5.05	1992	22	9.25	1992	.23	1998
Dec	3.67	3.26	3.00	1991	29	8.48	1997	1.06	1988
Ann	47.24	47.04	5.25	Jun 1995	6	11.33	Jun 1995	.00+	Oct 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	7.3	3.7	1.7
Feb	7.7	6.0	3.1	1.3
Mar	8.5	6.8	3.5	1.5
Apr	6.0	4.7	2.4	1.2
May	6.9	5.2	1.9	.8
Jun	8.7	6.9	3.1	1.3
Jul	11.2	8.7	3.7	1.5
Aug	9.1	6.9	2.7	1.1
Sep	7.2	5.2	2.1	.9
Oct	4.7	3.8	1.7	.9
Nov	6.9	4.8	1.8	.9
Dec	8.4	6.1	2.5	1.1
Ann	95.0	72.4	32.2	14.2

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	1.84	2.32	3.00	3.57	4.12	4.67	5.28	5.99	6.89	8.27	9.54
Feb	1.33	1.75	2.37	2.90	3.42	3.96	4.55	5.25	6.15	7.56	8.86
Mar	1.66	2.12	2.79	3.35	3.89	4.45	5.05	5.76	6.67	8.07	9.36
Apr	.60	.91	1.43	1.92	2.43	2.98	3.61	4.37	5.39	7.05	8.63
May	.52	.78	1.21	1.61	2.02	2.46	2.96	3.57	4.39	5.70	6.95
Jun	1.08	1.50	2.17	2.76	3.34	3.96	4.66	5.48	6.57	8.29	9.91
Jul	1.87	2.35	3.04	3.62	4.17	4.73	5.35	6.06	6.97	8.38	9.67
Aug	1.33	1.70	2.24	2.69	3.13	3.58	4.07	4.65	5.38	6.52	7.57
Sep	.33	.57	1.02	1.48	1.99	2.55	3.22	4.06	5.21	7.12	8.99
Oct	.00	.00	.38	.79	1.26	1.81	2.48	3.35	4.54	6.60	8.65
Nov	.44	.70	1.15	1.59	2.06	2.57	3.16	3.88	4.86	6.46	8.01
Dec	1.19	1.54	2.05	2.49	2.91	3.35	3.83	4.39	5.11	6.23	7.26
Ann	37.07	39.12	41.70	43.62	45.32	46.94	48.60	50.42	52.61	55.74	58.42

\+ 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)

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	.2	.0	#	0	1.0	1977	18	3.0	1977	1	1977	19	1	1977	.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	2	1993	23	#	1993	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	1.0	Jan 1977	18	3.0	Jan 1977	2	Dec 1993	23	1	Jan 1977	.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	4/16	4/10	4/05	4/02	3/29	3/26	3/22	3/18	3/12
32	3/30	3/23	3/18	3/13	3/09	3/05	3/01	2/24	2/17
28	3/13	3/05	2/28	2/23	2/19	2/15	2/10	2/05	1/28
24	3/05	2/25	2/19	2/13	2/09	2/04	1/29	1/23	1/15
20	2/27	2/17	2/11	2/05	1/30	1/24	1/17	1/05	0/00
16	2/06	1/26	1/15	1/02	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	10/18	10/25	10/30	11/03	11/07	11/11	11/15	11/20	11/27
32	11/03	11/08	11/13	11/16	11/19	11/23	11/26	11/30	12/06
28	11/10	11/19	11/25	11/30	12/05	12/10	12/16	12/22	12/31
24	12/02	12/11	12/17	12/22	12/27	1/01	1/06	1/12	1/21
20	12/18	12/29	1/06	1/13	1/19	1/26	2/04	2/17	0/00
16	12/30	1/13	1/26	2/15	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	250	240	233	227	222	216	210	203	194
32	283	273	266	260	254	249	242	235	225
28	324	312	303	296	289	282	274	265	253
24	>365	343	332	324	317	310	303	295	284
20	>365	>365	>365	>365	>365	343	330	318	305
16	>365	>365	>365	>365	>365	>365	>365	>365	353

***** 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	571	412	243	93	9	0	0	0	1	84	249	483	2145
60	430	284	136	33	1	0	0	0	0	32	146	344	1406
57	353	214	88	15	0	0	0	0	0	15	98	270	1053
55	305	174	62	8	0	0	0	0	0	9	72	227	857
50	207	95	20	1	0	0	0	0	0	2	27	139	491
32	18	1	0	0	0	0	0	0	0	0	0	6	25

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	481	516	804	972	1252	1406	1533	1504	1317	1053	767	555	12160
55	55	45	152	290	539	716	820	791	627	349	149	64	4597
57	40	29	117	236	477	656	758	729	567	293	115	45	4062
60	25	14	72	165	385	566	665	636	477	217	73	26	3321
65	0	2	24	75	238	416	510	481	328	114	26	10	2224
70	0	0	6	22	117	269	355	326	188	45	7	0	1335

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	265	335	568	738	1010	1167	1287	1264	1083	812	534	330	265	600	1168	1906	2916	4083	5370	6634	7717	8529	9063	9393
45	162	220	419	588	855	1017	1132	1109	933	658	393	213	162	382	801	1389	2244	3261	4393	5502	6435	7093	7486	7699
50	84	126	280	438	700	867	977	954	783	503	261	122	84	210	490	928	1628	2495	3472	4426	5209	5712	5973	6095
55	34	65	167	300	545	717	822	799	633	353	155	64	34	99	266	566	1111	1828	2650	3449	4082	4435	4590	4654
60	9	23	84	176	390	567	667	644	483	220	73	27	9	32	116	292	682	1249	1916	2560	3043	3263	3336	3363
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	158	213	353	476	676	799	880	862	739	534	341	202	158	371	724	1200	1876	2675	3555	4417	5156	5690	6031	6233

(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