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: EXPERIMENT, GA **COOP ID: 093271**

Climate Division: GA 4 **NWS Call Sign:** **Elevation: 925 Feet** **Lat: 33˚16N** **Lon: 84˚17W**

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	53.4	32.0	42.7	79	1949	11	55.8	1974	-8	1985	21	31.5	1977	695	0	.0	.0	18.8	1.1	16.3	.1
Feb	57.9	34.6	46.3	89	1930	25	52.6	1976	5	1958	17	38.8	1978	525	0	.0	.0	20.7	.5	12.1	.0
Mar	65.6	41.9	53.8	87+	1974	11	60.3	1997	11+	1980	3	47.3	1971	360	11	.0	.0	28.3	.1	5.1	.0
Apr	73.2	48.4	60.8	93	1927	27	65.4	1981	25	1987	1	56.5	2000	157	32	.0	@	29.7	.0	.8	.0
May	80.2	57.1	68.7	97	1953	26	72.3	1996	36	1944	7	64.6	1997	36	150	.0	1.1	31.0	.0	.0	.0
Jun	86.8	64.4	75.6	103+	1931	29	79.3	1981	44+	1984	1	71.0	1997	1	319	.1	7.8	30.0	.0	.0	.0
Jul	89.9	68.0	79.0	104	1930	12	82.5	1993	51+	1967	16	76.2	1994	0	432	.2	15.3	31.0	.0	.0	.0
Aug	88.5	66.8	77.7	101+	2000	19	80.9	1983	51	1986	30	74.9	1997	0	392	.3	10.7	31.0	.0	.0	.0
Sep	83.6	61.2	72.4	103	1931	18	76.6	1973	35	1967	30	69.1	2000	9	230	.0	3.4	30.0	.0	.0	.0
Oct	74.6	49.2	61.9	96+	1954	6	68.8	1984	26+	1976	29	55.3	1987	151	54	.0	.1	30.9	.0	.5	.0
Nov	65.6	41.7	53.7	86	1935	2	61.6	1985	5	1950	25	45.6	1976	351	11	.0	.0	28.1	.0	5.9	.0
Dec	56.6	34.5	45.6	79+	1971	17	53.9	1984	0+	1983	25	37.3	2000	604	0	.0	.0	22.0	.4	14.0	@
Ann	73.0	50.0	61.5	104	Jul 1930	12	82.5	Jul 1993	-8	Jan 1985	21	31.5	Jan 1977	2889	1631	.6	38.4	331.5	2.1	54.7	.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: 1926-2001

(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	5.32	5.39	4.07	1943	19	9.47	1996	1.06	1981
Feb	4.62	4.19	4.44	1981	11	8.31	1998	1.03	1978
Mar	5.54	4.92	6.30	1990	17	14.15	1971	1.29	1985
Apr	4.08	3.55	4.80	1975	3	10.16	1979	.25	1986
May	3.81	3.58	3.44	1961	23	7.47	1976	1.09+	1993
Jun	3.88	3.48	4.35	1933	10	8.81	1999	.51	1984
Jul	5.01	4.13	10.50	1994	5	20.78	1994	.33	1983
Aug	4.14	3.81	3.60	1950	26	8.24	1992	1.11	1989
Sep	3.37	3.60	5.15	1956	25	9.88	1997	.17	1984
Oct	2.86	2.85	6.11	1965	1	7.92	1995	.45	1978
Nov	3.87	3.39	5.55	1948	27	11.55	1992	.94	1981
Dec	4.35	3.97	3.70	1953	4	10.84	1972	.97	1988
Ann	50.85	49.80	10.50	Jul 1994	5	20.78	Jul 1994	.17	Sep 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.2	8.4	3.8	1.6
Feb	9.5	6.5	3.5	1.4
Mar	10.5	7.5	3.6	1.6
Apr	8.5	5.7	2.6	1.3
May	9.8	6.3	2.8	1.0
Jun	10.3	6.6	2.4	.9
Jul	11.8	7.6	3.4	1.3
Aug	10.0	6.7	2.7	1.0
Sep	8.4	5.7	2.2	.9
Oct	7.0	4.5	1.8	1.0
Nov	8.8	6.1	2.8	1.1
Dec	10.8	7.0	3.3	1.2
Ann	117.6	78.6	34.9	14.3

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	1.96	2.46	3.17	3.77	4.35	4.93	5.57	6.30	7.24	8.69	10.02
Feb	1.49	1.93	2.58	3.13	3.66	4.21	4.82	5.52	6.43	7.85	9.15
Mar	1.71	2.24	3.02	3.69	4.35	5.02	5.76	6.64	7.76	9.52	11.15
Apr	.63	.98	1.57	2.13	2.72	3.35	4.08	4.98	6.18	8.12	9.99
May	1.17	1.53	2.07	2.53	2.98	3.45	3.96	4.57	5.35	6.56	7.69
Jun	.73	1.08	1.65	2.18	2.71	3.29	3.94	4.73	5.78	7.47	9.07
Jul	1.07	1.53	2.27	2.93	3.60	4.32	5.12	6.09	7.37	9.40	11.33
Aug	1.33	1.72	2.30	2.79	3.27	3.77	4.31	4.95	5.76	7.04	8.21
Sep	.54	.82	1.31	1.78	2.26	2.78	3.38	4.11	5.09	6.68	8.20
Oct	.45	.70	1.11	1.51	1.92	2.36	2.87	3.50	4.33	5.69	6.99
Nov	1.04	1.41	1.97	2.46	2.94	3.45	4.00	4.67	5.53	6.88	8.15
Dec	1.25	1.67	2.29	2.83	3.36	3.90	4.51	5.22	6.15	7.60	8.95
Ann	37.06	39.76	43.20	45.80	48.10	50.32	52.61	55.14	58.19	62.61	66.42

\+ 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: 1926-2001
(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	.5	.0	0	0	2.5	1982	14	4.5	1982	0	0	0	0	0	.2	.2	.0	.0	.0	.0	.0	.0	.0
Feb	.4	.0	#	0	3.0	1973	10	3.0	1973	3	1973	10	#+	1973	.2	.1	.1	.0	.0	.1	@	.0	.0
Mar	.4	.0	#	0	5.0	1993	14	5.0	1993	5	1993	14	#+	1996	.2	.2	.1	.1	.0	@	@	@	.0
Apr	#	.0	0	0	#	1971	7	#	1971	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	1.0	1971	4	1.0	1971	2	1993	23	#+	1993	.2	.1	.0	.0	.0	@	.0	.0	.0
Ann	1.4	.0	N/A	N/A	5.0	Mar 1993	14	5.0	Mar 1993	5	Mar 1993	14	#+	Mar 1996	.8	.6	.2	.1	.0	.1	@	@	.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	4/24	4/20	4/17	4/14	4/12	4/09	4/07	4/04	3/31
32	4/15	4/09	4/05	4/02	3/29	3/26	3/23	3/19	3/13
28	4/02	3/25	3/20	3/15	3/11	3/07	3/02	2/25	2/17
24	3/14	3/06	3/01	2/25	2/21	2/17	2/13	2/07	1/31
20	3/07	2/26	2/20	2/15	2/10	2/04	1/30	1/24	1/15
16	2/26	2/17	2/10	2/04	1/28	1/21	1/12	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	10/09	10/14	10/17	10/20	10/22	10/25	10/28	10/31	11/04
32	10/22	10/27	10/31	11/03	11/06	11/09	11/12	11/15	11/20
28	11/04	11/10	11/14	11/17	11/20	11/23	11/26	11/30	12/06
24	11/17	11/26	12/02	12/07	12/11	12/16	12/21	12/27	1/04
20	12/02	12/10	12/16	12/21	12/26	12/31	1/04	1/10	1/18
16	12/10	12/22	12/30	1/07	1/15	1/24	2/05	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	210	204	200	196	193	189	186	181	175
32	243	235	230	225	221	216	211	206	198
28	278	270	263	258	253	248	243	237	228
24	319	310	304	298	293	287	282	275	266
20	357	340	330	323	316	309	303	295	284
16	>365	>365	>365	>365	363	340	327	314	299

***** 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	695	525	360	157	36	1	0	0	9	151	351	604	2889
60	550	387	230	71	8	0	0	0	1	71	226	459	2003
57	466	310	167	37	2	0	0	0	0	40	164	374	1560
55	413	260	131	22	1	0	0	0	0	25	130	321	1303
50	294	154	61	4	0	0	0	0	0	6	61	209	789
32	41	4	0	0	0	0	0	0	0	0	0	14	59

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	374	403	674	865	1137	1308	1455	1415	1212	927	650	433	10853
55	32	15	92	197	425	618	742	702	522	239	90	28	3702
57	24	9	66	152	364	558	680	640	462	191	65	19	3230
60	15	3	36	95	277	468	587	547	373	130	36	10	2577
65	0	0	11	32	150	319	432	392	230	54	11	0	1631
70	0	0	2	7	62	179	277	238	111	16	2	0	894

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	171	240	441	629	891	1067	1205	1162	964	675	412	222	171	411	852	1481	2372	3439	4644	5806	6770	7445	7857	8079
45	91	142	302	482	736	917	1050	1007	814	520	280	127	91	233	535	1017	1753	2670	3720	4727	5541	6061	6341	6468
50	48	79	190	335	581	767	895	852	664	370	172	66	48	127	317	652	1233	2000	2895	3747	4411	4781	4953	5019
55	20	34	98	214	427	617	740	697	514	233	88	30	20	54	152	366	793	1410	2150	2847	3361	3594	3682	3712
60	1	7	40	109	278	467	585	542	367	120	34	6	1	8	48	157	435	902	1487	2029	2396	2516	2550	2556
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	102	150	266	392	588	731	833	812	656	421	248	134	102	252	518	910	1498	2229	3062	3874	4530	4951	5199	5333

(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