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: NEWNAN 4 NE, GA **COOP ID: 096335**

Climate Division: GA 4 **NWS Call Sign:** **Elevation: 920 Feet** **Lat: 33˚27N** **Lon: 84˚47W**

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	52.4	30.6	41.5	80	1949	12	52.4	1974	-8	1985	21	29.9	1977	728	0	.0	.0	20.5	.7	16.2	.1
Feb	57.5	33.3	45.4	82	1962	27	52.5	1976	4+	1996	5	37.7	1978	550	0	.0	.0	22.2	.3	12.4	.0
Mar	65.4	39.8	52.6	87	1974	10	59.2	1997	11+	1980	3	46.8	1996	391	7	.0	.0	29.7	.1	6.4	.0
Apr	73.3	47.3	60.3	92	1986	27	65.6	1981	24+	1987	1	55.0	1983	171	30	.0	.1	29.9	.0	1.7	.0
May	79.7	56.0	67.9	97+	1962	28	71.1	1996	35	1971	4	63.5	1997	42	132	.0	1.3	31.0	.0	.0	.0
Jun	86.1	63.9	75.0	101+	1964	22	79.5	1981	41	1984	1	70.6	1997	2	302	.0	9.0	30.0	.0	.0	.0
Jul	88.9	67.7	78.3	104+	1952	25	81.2	1986	50	1967	15	75.5	1994	0	412	.3	16.4	31.0	.0	.0	.0
Aug	87.8	66.8	77.3	102+	1954	16	80.1	1980	51	1968	29	74.6	1992	0	382	.2	12.7	31.0	.0	.0	.0
Sep	82.6	61.5	72.1	99+	1954	19	76.8	1980	32	1967	30	69.2	2000	11	222	.0	4.6	30.0	.0	.0	.0
Oct	73.2	49.0	61.1	97	1954	5	67.4	1984	25	1976	29	56.1	1987	163	42	.0	.1	30.9	.0	.7	.0
Nov	64.2	40.7	52.5	87	1961	2	60.6	1985	4	1950	25	45.1	1976	383	6	.0	.0	28.4	.0	7.2	.0
Dec	54.8	33.2	44.0	79	1971	16	52.0	1971	-2	1962	13	35.0	2000	652	0	.0	.0	22.8	.3	14.1	.0
Ann	72.2	49.2	60.7	104+	Jul 1952	25	81.2	Jul 1986	-8	Jan 1985	21	29.9	Jan 1977	3093	1535	.5	44.2	337.4	1.4	58.7	.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: 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	5.49	5.21	3.83	1964	25	9.99	1972	1.05	1981
Feb	5.14	4.92	5.68	1995	11	9.78	1995	.58	1978
Mar	5.95	5.32	6.12	1976	16	12.06	1980	1.73	1974
Apr	4.17	3.94	4.49	1963	30	11.12	1979	.22	1986
May	4.37	4.54	3.22	1959	31	9.31	1973	1.36	2000
Jun	3.99	3.55	3.76	1987	22	11.22	1989	.50	1979
Jul	4.66	4.00	6.98	1994	5	14.18	1994	1.16	1983
Aug	4.00	3.69	3.90	1989	15	8.18	1984	.25	1980
Sep	3.24	2.91	4.10	1956	25	7.63	1988	.06	1984
Oct	2.86	2.51	4.73	1965	1	7.04	1975	.35	1971
Nov	4.18	4.04	4.09	1962	22	12.10	1992	1.01	1981
Dec	4.27	3.86	3.35+	1992	17	9.41	1972	.88	1988
Ann	52.32	51.77	6.98	Jul 1994	5	14.18	Jul 1994	.06	Sep 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.4	8.5	3.9	1.6
Feb	9.9	6.7	3.5	1.8
Mar	10.3	7.6	3.6	1.9
Apr	8.9	5.8	2.9	1.3
May	9.6	6.3	2.9	1.3
Jun	9.4	6.8	2.7	1.1
Jul	10.8	7.7	3.4	1.3
Aug	9.2	6.3	2.7	1.3
Sep	7.9	5.3	2.3	1.0
Oct	6.1	4.2	1.7	.8
Nov	9.1	6.4	3.1	1.3
Dec	10.7	6.6	2.9	1.2
Ann	114.3	78.2	35.6	15.9

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	2.31	2.81	3.51	4.08	4.62	5.17	5.76	6.43	7.29	8.59	9.78
Feb	1.59	2.08	2.81	3.43	4.03	4.66	5.35	6.16	7.21	8.84	10.35
Mar	1.97	2.54	3.36	4.07	4.74	5.44	6.20	7.09	8.24	10.02	11.66
Apr	.95	1.34	1.95	2.49	3.04	3.62	4.28	5.06	6.08	7.71	9.25
May	1.63	2.03	2.62	3.11	3.58	4.06	4.58	5.18	5.94	7.12	8.20
Jun	.84	1.21	1.79	2.32	2.86	3.43	4.08	4.85	5.87	7.51	9.05
Jul	1.28	1.72	2.39	2.98	3.56	4.16	4.83	5.62	6.64	8.25	9.76
Aug	.90	1.27	1.85	2.38	2.91	3.47	4.10	4.85	5.84	7.42	8.90
Sep	.45	.72	1.18	1.63	2.10	2.62	3.22	3.96	4.95	6.57	8.13
Oct	.37	.60	1.00	1.40	1.82	2.29	2.83	3.49	4.39	5.87	7.29
Nov	1.43	1.82	2.40	2.89	3.35	3.83	4.36	4.97	5.76	6.97	8.09
Dec	1.27	1.68	2.29	2.81	3.32	3.85	4.43	5.12	6.01	7.40	8.68
Ann	37.41	40.30	44.00	46.81	49.30	51.71	54.19	56.94	60.27	65.09	69.26

\+ 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	.8	.0	#	0	7.0	1992	19	7.0	1992	7	1992	19	1	1992	.4	.3	@	@	.0	.5	.1	.1	.0
Feb	.3	.0	#	0	4.0	1979	19	5.5	1979	2	1980	6	#+	1998	.3	.1	@	.0	.0	.1	.0	.0	.0
Mar	.5	.0	#	0	4.0	1983	25	7.0	1983	7	1983	25	#+	1993	.2	.2	.1	.0	.0	.1	.1	@	.0
Apr	.1	.0	#	0	1.3	1987	4	1.3	1987	#	1984	9	#	1984	@	@	.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	.2	.0	#	0	2.5	1993	23	2.5	1993	3	1993	23	#+	2000	.2	.1	.0	.0	.0	.2	@	.0	.0
Ann	1.9	.0	N/A	N/A	7.0	Jan 1992	19	7.0+	Jan 1992	7+	Jan 1992	19	1	Jan 1992	1.1	.7	.1	@	.0	.9	.2	.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	4/28	4/24	4/21	4/18	4/16	4/13	4/11	4/08	4/04
32	4/17	4/12	4/09	4/06	4/04	4/01	3/29	3/26	3/22
28	4/04	3/29	3/24	3/20	3/16	3/13	3/09	3/04	2/25
24	3/25	3/16	3/10	3/04	2/27	2/22	2/16	2/10	2/01
20	3/10	3/02	2/24	2/19	2/15	2/10	2/05	1/30	1/22
16	2/28	2/19	2/13	2/07	2/02	1/28	1/22	1/13	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	10/11	10/14	10/17	10/20	10/22	10/25	10/28	11/02
32	10/18	10/24	10/28	11/01	11/04	11/07	11/11	11/15	11/21
28	10/30	11/04	11/08	11/12	11/15	11/18	11/21	11/25	12/01
24	11/10	11/18	11/24	11/29	12/04	12/08	12/13	12/19	12/27
20	11/25	12/04	12/11	12/17	12/22	12/27	1/02	1/08	1/18
16	12/06	12/17	12/25	1/02	1/08	1/16	1/24	2/04	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	203	197	193	189	186	183	179	175	169
32	236	228	223	218	214	209	204	199	191
28	266	258	252	247	243	238	233	227	219
24	315	303	294	286	279	272	264	255	243
20	343	327	319	312	306	300	294	287	277
16	>365	>365	>365	351	339	329	320	310	297

***** 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	728	550	391	171	42	2	0	0	11	163	383	652	3093
60	583	410	255	81	9	0	0	0	1	76	251	505	2171
57	496	332	187	45	3	0	0	0	0	42	184	419	1708
55	441	281	147	28	1	0	0	0	0	26	147	364	1435
50	314	168	71	6	0	0	0	0	0	6	72	243	880
32	44	4	0	0	0	0	0	0	0	0	0	20	68

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	339	379	639	848	1113	1291	1435	1405	1201	902	613	391	10556
55	23	11	73	186	401	601	722	692	511	216	70	22	3528
57	16	7	51	143	340	541	660	630	451	170	48	15	3072
60	10	1	26	89	254	451	567	537	362	110	24	8	2439
65	0	0	7	30	132	302	412	382	222	42	6	0	1535
70	0	0	0	6	50	166	258	228	106	10	0	0	824

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	178	250	464	648	900	1066	1207	1167	971	684	410	225	178	428	892	1540	2440	3506	4713	5880	6851	7535	7945	8170
45	93	151	320	498	745	916	1052	1012	821	530	279	131	93	244	564	1062	1807	2723	3775	4787	5608	6138	6417	6548
50	46	79	200	356	590	766	897	857	671	381	163	70	46	125	325	681	1271	2037	2934	3791	4462	4843	5006	5076
55	19	34	110	228	435	616	742	702	521	241	85	32	19	53	163	391	826	1442	2184	2886	3407	3648	3733	3765
60	0	8	45	118	285	466	587	547	373	129	33	6	0	8	53	171	456	922	1509	2056	2429	2558	2591	2597
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	109	165	299	417	596	732	825	806	661	438	253	135	109	274	573	990	1586	2318	3143	3949	4610	5048	5301	5436

(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