

Climatology of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: WAYNESBORO 2 NE, GA

1971-2000

COOP ID: 099194

Climate Division: GA 6

NWS Call Sign:

Elevation: 270 Feet

Lat: 33°06N

Lon: 81°59W

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	56.5	34.0	45.3	83+	1975	31	58.8	1974	-1+	1985	21	34.9	1977	621	0	.0	.0	22.6	.5	16.1	.1
Feb	60.9	36.3	48.6	85+	1989	16	55.6	1990	9+	1996	5	39.9	1978	459	1	.0	.0	23.1	.2	12.0	.0
Mar	68.7	43.4	56.1	91	1974	11	62.6	1997	16	1993	15	50.9	1971	292	15	.0	@	29.7	@	5.5	.0
Apr	76.0	49.4	62.7	98	1986	27	67.1	1999	27	1983	20	57.7	1983	115	45	.0	.6	29.9	.0	1.2	.0
May	82.9	57.7	70.3	100+	1953	31	74.7	1975	36+	1971	4	66.6	1992	24	189	.0	4.6	31.0	.0	.0	.0
Jun	88.7	64.9	76.8	107	1950	28	81.8	1998	44+	1988	4	71.4	1972	1	354	.8	14.0	30.0	.0	.0	.0
Jul	91.1	68.9	80.0	108+	1980	14	84.0	1993	54	1983	10	76.5	1972	0	464	1.9	20.9	31.0	.0	.0	.0
Aug	89.2	67.6	78.4	106+	1999	2	82.6	1999	52	1983	15	74.0	1981	0	415	.9	17.3	31.0	.0	.0	.0
Sep	84.8	62.6	73.7	104	1951	4	78.5	1980	34	1967	30	69.9	1981	4	266	.1	7.8	30.0	.0	.0	.0
Oct	76.4	50.3	63.4	100	1954	5	69.0	1984	23	1976	29	56.5	1987	133	81	.0	.5	31.0	.0	.9	.0
Nov	68.3	41.8	55.1	87+	1974	4	62.8	1985	15+	1970	26	48.2	1976	311	13	.0	.0	29.4	.0	7.8	.0
Dec	58.9	35.5	47.2	82	1971	17	56.0	1971	5	1962	13	38.5	2000	554	3	.0	.0	24.7	.1	14.5	.0
Ann	75.2	51.0	63.1	108+	Jul 1980	14	84.0	Jul 1993	-1+	Jan 1985	21	34.9	Jan 1977	2514	1846	3.7	65.7	343.4	.8	58.0	.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/normal/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

078-A

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NWS Call Sign:

Elevation: 270 Feet Lat: 33°06N

Lon: 81°59W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	4.71	4.57	3.30	1972	14	9.28	1978	.85	1981	8.8	7.1	3.5	1.3	1.66	2.10	2.75	3.29	3.81	4.34	4.92	5.60	6.46	7.80	9.03
Feb	4.07	3.98	2.77	1985	6	8.85	1979	.86	1989	7.3	5.8	2.9	1.5	1.07	1.46	2.05	2.57	3.07	3.61	4.20	4.91	5.82	7.27	8.62
Mar	4.72	4.17	3.63	1980	13	13.51	1980	1.12	1985	8.1	6.5	3.6	1.5	1.39	1.84	2.51	3.09	3.66	4.25	4.90	5.67	6.66	8.21	9.66
Apr	3.03	2.36	4.60	1994	13	9.04	1998	.60	2000	6.0	5.0	2.1	1.1	.52	.79	1.23	1.64	2.07	2.53	3.06	3.70	4.56	5.94	7.26
May	2.96	2.40	2.80	1953	7	10.48	1975	.87	1977	6.6	5.1	2.2	.9	.57	.84	1.27	1.67	2.08	2.51	3.01	3.60	4.39	5.66	6.87
Jun	4.64	4.52	3.60	1983	23	10.48	1973	1.14	1993	7.6	6.3	3.1	1.5	1.44	1.88	2.53	3.10	3.64	4.21	4.83	5.56	6.50	7.97	9.33
Jul	4.69	4.53	3.27	1996	6	11.74	1989	1.36	1986	8.4	7.0	3.4	1.7	1.29	1.73	2.41	3.00	3.58	4.19	4.86	5.65	6.69	8.31	9.83
Aug	4.97	4.22	5.54	1999	19	13.09	1981	.77	1980	8.2	6.6	3.2	1.4	1.24	1.71	2.44	3.08	3.71	4.38	5.12	6.01	7.17	9.00	10.71
Sep	3.75	3.49	6.10	1998	3	8.80	1983	.00	1984	6.7	5.0	2.3	1.2	.38	.83	1.45	2.00	2.55	3.15	3.82	4.64	5.72	7.46	9.13
Oct	3.36	2.71	7.40	1994	3	16.99	1994	.00+	1991	5.0	3.9	2.1	1.0	.00	.25	.79	1.31	1.87	2.51	3.25	4.16	5.43	7.55	9.62
Nov	2.71	2.53	2.12	1985	22	9.26	1985	.00	1991	5.7	4.4	1.9	.9	.30	.62	1.08	1.47	1.87	2.29	2.77	3.35	4.12	5.35	6.52
Dec	3.59	3.58	2.20	1972	6	8.94	1981	1.23	1984	7.8	5.7	2.6	1.0	1.06	1.40	1.91	2.36	2.79	3.23	3.73	4.31	5.06	6.23	7.32
Ann	47.20	46.37	7.40	Oct 1994	3	16.99	Oct 1994	.00+	Nov 1991	86.2	68.4	32.9	15.0	32.64	35.43	39.02	41.76	44.20	46.57	49.01	51.72	55.02	59.82	63.98

+ 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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NWS Call Sign:

Elevation: 270 Feet

Lat: 33°06N

Lon: 81°59W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.0	.0	#	0	.3	1982	15	.3+	1983	#	1983	21	#	1983	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	1.0	.0	#	0	16.0	1973	10	16.0	1973	#	1996	4	#	1996	.2	.1	.1	.1	.1	.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	.0	N/A	N/A	16.0	Feb 1973	10	16.0	Feb 1973	#+	Feb 1996	4	#+	Feb 1996	.3	.1	.1	.1	.1	.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

Complete documentation available from:

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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	4/27	4/22	4/17	4/14	4/10	4/07	4/03	3/30	3/24
32	4/19	4/12	4/08	4/04	3/31	3/27	3/23	3/19	3/12
28	3/31	3/24	3/19	3/14	3/10	3/06	3/02	2/25	2/18
24	3/10	3/03	2/27	2/23	2/19	2/16	2/12	2/07	2/01
20	3/07	2/25	2/18	2/11	2/05	1/30	1/23	1/14	12/28
16	2/19	2/09	2/02	1/27	1/20	1/13	1/03	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	10/07	10/12	10/16	10/19	10/22	10/25	10/28	10/31	11/05
32	10/18	10/24	10/28	10/31	11/04	11/07	11/11	11/15	11/21
28	11/01	11/07	11/11	11/14	11/18	11/21	11/24	11/28	12/04
24	11/06	11/17	11/24	11/30	12/06	12/12	12/18	12/26	1/05
20	11/27	12/08	12/15	12/22	12/28	1/04	1/11	1/20	2/06
16	12/14	12/26	1/05	1/13	1/21	1/31	2/15	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	213	206	202	198	194	190	186	181	175
32	245	236	229	223	217	212	206	199	189
28	275	267	261	256	252	247	242	236	228
24	321	309	300	294	287	281	275	267	256
20	>365	>365	346	328	318	310	302	293	282
16	>365	>365	>365	>365	>365	350	334	323	312

* 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

Complete documentation available from:

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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	621	459	292	115	24	1	0	0	4	133	311	554	2514
60	479	330	173	42	4	0	0	0	0	63	190	411	1692
57	399	257	118	18	1	0	0	0	0	35	133	330	1291
55	350	213	87	9	0	0	0	0	0	22	101	281	1063
50	244	125	34	1	0	0	0	0	0	6	42	179	631
32	28	3	0	0	0	0	0	0	0	0	0	10	41

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	440	469	746	921	1188	1344	1487	1438	1252	971	692	482	11430
55	48	35	120	240	475	654	774	725	562	280	103	40	4056
57	36	22	89	189	414	594	712	663	502	231	75	28	3555
60	22	11	51	123	324	504	619	570	412	166	42	15	2859
65	0	1	15	45	189	354	464	415	266	81	13	3	1846
70	0	0	3	10	89	213	309	262	136	29	2	0	1053

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	213	271	480	663	931	1110	1253	1203	1016	725	449	253	213	484	964	1627	2558	3668	4921	6124	7140	7865	8314	8567
45	119	167	342	514	776	960	1098	1048	866	570	316	149	119	286	628	1142	1918	2878	3976	5024	5890	6460	6776	6925
50	57	92	210	370	621	810	943	893	716	417	198	81	57	149	359	729	1350	2160	3103	3996	4712	5129	5327	5408
55	29	40	113	235	466	660	788	738	566	276	105	39	29	69	182	417	883	1543	2331	3069	3635	3911	4016	4055
60	5	12	45	128	313	510	633	583	416	157	47	11	5	17	62	190	503	1013	1646	2229	2645	2802	2849	2860
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	142	191	319	434	616	749	850	826	690	476	306	173	142	333	652	1086	1702	2451	3301	4127	4817	5293	5599	5772

(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:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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