

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: WAYCROSS 4 NE, GA

1971-2000

COOP ID: 099186

Climate Division: GA 9

NWS Call Sign:

Elevation: 145 Feet Lat: 31°15N Lon: 82°19W

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	64.2	37.2	50.7	88	1975	31	66.9	1974	2+	1985	22	41.7	1977	469	11	.0	.0	27.3	.1	13.6	.0
Feb	67.9	39.5	53.7	87+	1948	29	59.0	1990	10	1991	16	44.6	1978	326	9	.0	.0	26.0	.1	9.3	.0
Mar	74.9	46.1	60.5	95+	1935	23	66.2	1997	15	1980	3	55.4	1996	177	38	.0	.1	30.7	@	4.0	.0
Apr	81.4	51.2	66.3	98+	1999	25	71.4	1999	22+	1987	2	61.3	1987	62	101	.0	3.0	30.0	.0	.5	.0
May	88.1	59.9	74.0	102+	1953	27	77.8	1998	39+	1981	4	71.1	1992	2	281	.1	11.6	31.0	.0	.0	.0
Jun	92.5	67.4	80.0	106+	1998	22	85.4	1998	43+	1984	2	76.1	1972	0	448	2.2	21.4	30.0	.0	.0	.0
Jul	94.7	70.6	82.7	108	1986	21	85.8	1986	54	1981	1	80.4+	1984	0	547	3.2	27.0	31.0	.0	.0	.0
Aug	93.0	70.1	81.6	104+	1999	2	83.9	1987	57	1930	24	79.5	1976	0	513	1.1	25.8	31.0	.0	.0	.0
Sep	89.4	65.7	77.6	104	1931	19	80.8	1973	34	1967	30	74.6	1994	1	377	.3	16.9	30.0	.0	.0	.0
Oct	81.6	53.7	67.7	97+	1986	3	72.6	1985	22	2001	28	60.6	1987	67	150	.0	3.4	31.0	.0	.7	.0
Nov	74.4	45.8	60.1	92	1935	6	68.2	1985	18	1950	25	52.0	1976	205	57	.0	@	29.9	.0	5.6	.0
Dec	66.3	38.7	52.5	87	1943	9	61.4	1971	8+	1983	27	43.4	1989	406	18	.0	.0	28.6	.1	11.9	.0
Ann	80.7	53.8	67.3	108	Jul 1986	21	85.8	Jul 1986	2+	Jan 1985	22	41.7	Jan 1977	1715	2550	6.9	109.2	356.5	.3	45.6	.0

+ 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: 1930-2001

(3) Derived from 1971-2000 serially complete daily data

077-A

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NWS Call Sign:

Elevation: 145 Feet Lat: 31°15N

Lon: 82°19W

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	4.95	4.85	5.16	1992	14	14.77	1991	.69	1989	9.9	7.1	3.2	1.6	1.18	1.64	2.37	3.01	3.65	4.33	5.09	5.99	7.18	9.05	10.82
Feb	3.63	3.21	3.94	1995	12	6.92	1986	.80	1976	7.9	5.5	2.4	1.1	1.01	1.35	1.88	2.33	2.78	3.25	3.76	4.37	5.17	6.41	7.57
Mar	4.47	3.98	4.95	1959	6	11.21	1984	1.01	1999	8.5	6.2	2.8	1.3	1.32	1.75	2.39	2.94	3.47	4.03	4.64	5.36	6.30	7.76	9.12
Apr	2.94	1.87	3.84	1973	4	10.48	1973	.31	1987	6.8	4.3	2.1	.8	.35	.57	.99	1.40	1.83	2.32	2.88	3.59	4.54	6.11	7.64
May	3.39	2.23	4.05	1974	12	12.01	1976	.20	1986	7.7	5.5	2.0	1.1	.44	.71	1.20	1.67	2.17	2.72	3.36	4.15	5.21	6.96	8.65
Jun	5.80	5.97	4.05	2001	12	10.13	1995	1.03	1988	11.1	8.4	4.0	1.8	2.02	2.57	3.36	4.03	4.68	5.33	6.05	6.89	7.96	9.62	11.15
Jul	6.07	6.25	4.85	1964	18	10.12	1979	1.25	1990	12.6	9.8	4.5	1.8	2.45	3.00	3.79	4.44	5.06	5.68	6.35	7.13	8.12	9.62	11.00
Aug	6.46	6.95	3.91	1997	1	11.16	1985	1.56	1975	12.1	8.9	4.2	1.9	2.40	3.00	3.87	4.59	5.28	5.99	6.75	7.64	8.77	10.51	12.11
Sep	3.83	3.48	4.55	1951	2	9.28	1998	.63	1972	8.8	6.1	2.8	1.1	.77	1.12	1.68	2.20	2.72	3.27	3.90	4.66	5.66	7.26	8.78
Oct	2.94	1.87	5.90	1997	27	10.36	1994	.03	1987	6.0	3.8	1.5	.7	.14	.29	.64	1.03	1.48	2.02	2.68	3.53	4.74	6.81	8.89
Nov	2.76	2.40	3.40	1947	2	7.60	1992	.38	1998	7.5	4.5	2.2	.8	.37	.60	.99	1.38	1.78	2.22	2.74	3.37	4.23	5.63	6.98
Dec	3.20	3.11	2.87	1977	1	6.93	1983	.38	1984	8.2	5.4	2.1	.9	.75	1.04	1.51	1.93	2.35	2.79	3.29	3.88	4.66	5.89	7.05
Ann	50.44	49.19	5.90	Oct 1997	27	14.77	Jan 1991	.03	Oct 1987	107.1	75.5	33.8	14.9	37.09	39.71	43.04	45.55	47.78	49.93	52.14	54.57	57.51	61.77	65.43

+ 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: 1930-2001

(3) Derived from 1971-2000 serially complete daily data

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NWS Call Sign:

Elevation: 145 Feet

Lat: 31°15N

Lon: 82°19W

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	#	2000	99	#	2000	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1979	19	#	1979	#	1979	19	#	1979	.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	#	.0	N/A	N/A	#+	Jan 2000	99	#+	Jan 2000	#	Feb 1979	19	#	Feb 1979	.0	.0	.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	4/25	4/17	4/12	4/07	4/03	3/29	3/25	3/19	3/12
32	4/08	3/31	3/25	3/20	3/15	3/10	3/05	2/27	2/18
28	3/29	3/20	3/14	3/08	3/03	2/25	2/20	2/13	2/04
24	3/16	3/06	2/27	2/21	2/15	2/09	2/03	1/27	1/16
20	2/21	2/12	2/06	1/31	1/25	1/18	1/10	0/00	0/00
16	2/09	1/27	1/16	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	10/10	10/17	10/22	10/26	10/30	11/03	11/07	11/12	11/19
32	10/16	10/23	10/28	11/02	11/06	11/11	11/15	11/21	11/28
28	10/30	11/10	11/18	11/24	12/01	12/07	12/14	12/22	1/02
24	11/10	11/23	12/02	12/10	12/17	12/25	1/02	1/11	1/24
20	12/04	12/14	12/22	12/30	1/06	1/14	1/24	0/00	0/00
16	12/27	1/12	1/28	2/21	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	240	230	222	215	209	203	197	189	179
32	266	255	248	242	236	230	223	216	206
28	306	292	284	276	270	263	256	248	237
24	352	331	319	310	302	295	286	277	264
20	>365	>365	>365	>365	>365	332	322	314	304
16	>365	>365	>365	>365	>365	>365	>365	>365	346

* 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	469	326	177	62	2	0	0	0	1	67	205	406	1715
60	347	206	87	17	0	0	0	0	0	24	119	278	1078
57	284	149	48	6	0	0	0	0	0	11	79	215	792
55	246	117	30	3	0	0	0	0	0	7	57	179	639
50	164	54	7	0	0	0	0	0	0	1	22	102	350
32	15	0	0	0	0	0	0	0	0	0	0	3	18

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	596	607	884	1029	1302	1438	1570	1536	1366	1106	842	637	12913
55	114	81	201	342	589	748	857	823	676	400	209	100	5140
57	89	56	157	285	527	688	795	761	616	342	171	74	4561
60	60	29	102	206	434	598	702	668	526	262	121	45	3753
65	11	9	38	101	281	448	547	513	377	150	57	18	2550
70	10	0	10	33	144	299	392	358	233	68	22	6	1575

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	322	382	609	760	1027	1176	1311	1284	1120	841	579	377	322	704	1313	2073	3100	4276	5587	6871	7991	8832	9411	9788
45	212	261	458	611	872	1026	1156	1129	970	686	434	251	212	473	931	1542	2414	3440	4596	5725	6695	7381	7815	8066
50	123	162	319	462	717	876	1001	974	820	533	298	153	123	285	604	1066	1783	2659	3660	4634	5454	5987	6285	6438
55	64	85	193	318	562	726	846	819	670	382	192	82	64	149	342	660	1222	1948	2794	3613	4283	4665	4857	4939
60	29	38	99	195	408	576	691	664	520	247	105	40	29	67	166	361	769	1345	2036	2700	3220	3467	3572	3612
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	235	268	409	506	679	782	870	863	753	565	401	265	235	503	912	1418	2097	2879	3749	4612	5365	5930	6331	6596

(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