

Climatology of the United States

No. 20

1971-2000

Station: BRUNSWICK MCKINNON AP, GA

COOP ID: 091345

Climate Division: GA 9

NWS Call Sign: SSI

Elevation: 16 Feet

Lat: 31°09N

Lon: 81°23W

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	60.3	43.0	51.7	83	1972	13	65.0	1974	6	1985	21	42.1	1977	435	8	.0	.0	27.1	@	5.3	.0
Feb	62.7	45.6	54.2	85+	1962	28	59.3	1990	16	1996	5	45.2	1978	312	8	.0	.0	25.7	@	3.0	.0
Mar	68.8	52.0	60.4	90	1967	12	67.0	1997	22	1980	3	55.6	1996	179	36	.0	.0	30.5	.0	.5	.0
Apr	74.9	57.8	66.4	94	1986	27	70.2	1999	36	1950	7	61.5	1993	52	94	.0	.3	30.0	.0	.0	.0
May	81.5	65.9	73.7	100	1953	26	77.1	1998	46	1963	2	70.3	1992	2	272	.0	2.0	31.0	.0	.0	.0
Jun	86.9	71.9	79.4	103	1985	3	85.1	1998	52	1984	1	76.5	1976	0	432	.2	8.5	30.0	.0	.0	.0
Jul	90.1	74.6	82.4	104	1986	20	85.2	1998	66+	1972	8	79.6+	1975	0	537	.4	16.6	31.0	.0	.0	.0
Aug	88.3	74.3	81.3	100+	1999	1	83.2	1995	62	1957	25	78.8	1976	0	506	.1	10.4	31.0	.0	.0	.0
Sep	84.6	71.6	78.1	97	1972	16	80.5+	1998	49	1967	30	75.8	1982	0	394	.0	3.7	30.0	.0	.0	.0
Oct	77.1	62.1	69.6	95	1986	5	74.7	1985	37+	1957	28	62.8	1987	39	182	.0	.4	31.0	.0	.0	.0
Nov	69.9	53.3	61.6	89	1961	1	69.5	1985	21	1950	25	53.9	1976	167	64	.0	.0	29.9	.0	.1	.0
Dec	62.6	45.7	54.2	84+	1972	15	62.5	1971	12	1983	25	45.1	1989	356	19	.0	.0	28.7	.1	3.3	.0
Ann	75.6	59.8	67.8	104	Jul 1986	20	85.2	Jul 1998	6	Jan 1985	21	42.1	Jan 1977	1542	2552	.7	41.9	355.9	.1	12.2	.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: 1948-2001

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

013-A

**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: BRUNSWICK MCKINNON AP, GA

COOP ID: 091345

Climate Division: GA 9

NWS Call Sign: SSI

Elevation: 16 Feet

Lat: 31°09N

Lon: 81°23W

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	3.86	3.62	3.88	1983	21	9.35	1991	.43	1985	8.9	5.7	2.5	1.1	.78	1.14	1.70	2.22	2.74	3.30	3.93	4.69	5.70	7.31	8.84	
Feb	3.50	3.34	3.92	1981	18	8.50	1998	.90	1996	7.6	5.0	2.3	1.0	1.02	1.35	1.85	2.28	2.70	3.14	3.63	4.20	4.95	6.11	7.19	
Mar	3.93	3.16	4.26	1984	27	10.71	1983	.65	1999	7.5	5.2	2.6	1.2	.78	1.13	1.71	2.24	2.77	3.35	4.00	4.78	5.82	7.48	9.06	
Apr	2.80	2.41	5.33	1973	3	9.26	1973	.20	1986	5.9	4.4	1.8	.8	.36	.59	.99	1.38	1.79	2.24	2.77	3.42	4.29	5.73	7.13	
May	2.69	2.20	3.31	1959	20	10.31	1979	.10	1996	6.9	4.4	1.9	.8	.27	.46	.83	1.21	1.61	2.07	2.61	3.28	4.21	5.74	7.24	
Jun	5.05	4.33	8.19	1972	19	15.73	1999	.76	1998	9.9	6.8	2.8	1.6	.72	1.14	1.86	2.57	3.30	4.10	5.03	6.17	7.71	10.21	12.62	
Jul	4.81	4.26	5.77	1974	3	12.10	1978	1.02	1988	11.0	7.6	2.8	1.4	1.17	1.62	2.33	2.95	3.57	4.22	4.95	5.82	6.95	8.75	10.44	
Aug	6.16	6.03	12.36	1969	22	12.57	1995	1.16	1980	11.9	8.5	3.8	2.0	2.08	2.67	3.52	4.24	4.93	5.65	6.43	7.34	8.50	10.31	11.98	
Sep	6.24	5.52	9.82	1962	1	15.32	1989	.09	1981	10.6	7.8	4.3	2.0	1.12	1.67	2.59	3.44	4.31	5.25	6.32	7.61	9.34	12.12	14.77	
Oct	3.91	2.42	8.15	1996	7	13.70	1996	.00	1974	6.6	4.0	1.7	1.0	.08	.30	.79	1.33	1.95	2.69	3.58	4.74	6.36	9.12	11.88	
Nov	2.49	1.98	5.86	1962	30	6.37	1983	.22	1998	6.4	3.7	1.5	.7	.26	.44	.78	1.13	1.50	1.93	2.42	3.04	3.89	5.29	6.67	
Dec	2.83	2.08	3.27	1997	15	8.46	1997	.01	1984	7.9	4.6	1.8	.9	.22	.40	.77	1.16	1.60	2.09	2.69	3.44	4.48	6.23	7.95	
Ann	48.27	48.75	12.36	Aug 1969	22	15.73	Jun 1999	.00	Oct 1974	101.1	67.7	29.8	14.5	35.05	37.63	40.92	43.41	45.62	47.75	49.94	52.37	55.30	59.54	63.20	

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: BRUNSWICK MCKINNON AP, GA

COOP ID: 091345

Climate Division: GA 9

NWS Call Sign: SSI

Elevation: 16 Feet

Lat: 31°09N

Lon: 81°23W

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	#	1986	27	#+	1986	#	1977	31	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.2	1973	10	.2	1973	#	1973	11	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1986	1	#+	1986	#	1980	13	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	#	1980	.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	4.0	1989	23	4.0	1989	4	1989	24	#	1989	.0	.0	@	.0	.0	.1	@	.0	.0
Ann	.2	.0	N/A	N/A	4.0	Dec 1989	23	4.0	Dec 1989	4	Dec 1989	24	#+	Dec 1989	.0	.0	@	.0	.0	.1	.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:

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

Climatography of the United States

No. 20 1971-2000

Station: BRUNSWICK MCKINNON AP, GA

COOP ID: 091345

Climate Division: GA 9

NWS Call Sign: SSI

Elevation: 16 Feet

Lat: 31°09N

Lon: 81°23W

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	3/19	3/13	3/08	3/04	2/28	2/24	2/20	2/15	2/08
32	3/09	3/03	2/26	2/22	2/18	2/14	2/10	2/05	1/29
28	3/02	2/21	2/14	2/09	2/03	1/29	1/22	1/14	12/31
24	2/11	1/31	1/22	1/12	12/26	0/00	0/00	0/00	0/00
20	1/19	1/04	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/07	0/00	0/00	0/00	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	11/08	11/15	11/21	11/25	11/29	12/03	12/07	12/13	12/20
32	11/22	12/01	12/08	12/13	12/19	12/24	12/30	1/05	1/15
28	12/06	12/17	12/25	12/31	1/06	1/13	1/20	1/29	2/15
24	12/26	1/05	1/14	1/23	2/08	0/00	0/00	0/00	0/00
20	1/05	1/20	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/16	0/00	0/00	0/00	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	306	295	287	280	273	267	260	252	241
32	333	321	313	307	301	295	289	282	272
28	>365	>365	354	338	330	322	315	308	298
24	>365	>365	>365	>365	>365	>365	>365	>365	336
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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:

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

**Climatology
of the United States**
No. 20
1971-2000

Station: BRUNSWICK MCKINNON AP, GA

COOP ID: 091345

Climate Division: GA 9

NWS Call Sign: SSI

Elevation: 16 Feet

Lat: 31°09N

Lon: 81°23W

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	435	312	179	52	2	0	0	0	0	39	167	356	1542
60	313	192	88	12	0	0	0	0	0	11	87	233	936
57	249	135	49	4	0	0	0	0	0	5	52	174	668
55	213	104	31	2	0	0	0	0	0	2	35	141	528
50	133	44	7	0	0	0	0	0	0	0	11	71	266
32	8	0	0	0	0	0	0	0	0	0	0	0	8

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	616	620	880	1031	1293	1422	1560	1529	1384	1166	888	687	13076
55	108	80	198	343	580	732	847	816	694	455	233	114	5200
57	83	55	155	285	518	672	785	754	634	396	190	86	4613
60	53	28	100	203	425	582	692	661	544	309	135	51	3783
65	8	8	36	94	272	432	537	506	394	182	64	19	2552
70	7	0	9	27	135	283	382	351	246	87	23	7	1557

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	382	422	639	803	1061	1201	1328	1292	1153	926	656	455	382	804	1443	2246	3307	4508	5836	7128	8281	9207	9863	10318
45	251	290	487	653	906	1051	1173	1137	1003	771	507	316	251	541	1028	1681	2587	3638	4811	5948	6951	7722	8229	8545
50	144	180	343	503	751	901	1018	982	853	616	364	197	144	324	667	1170	1921	2822	3840	4822	5675	6291	6655	6852
55	72	93	211	354	596	751	863	827	703	461	240	107	72	165	376	730	1326	2077	2940	3767	4470	4931	5171	5278
60	29	41	108	222	442	601	708	672	553	312	134	53	29	70	178	400	842	1443	2151	2823	3376	3688	3822	3875
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	197	225	376	510	745	863	953	939	837	615	397	245	197	422	798	1308	2053	2916	3869	4808	5645	6260	6657	6902

(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.

- 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/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