

Climatology of the United States

No. 20

1971-2000

Station: BRUNSWICK, GA

COOP ID: 091340

Climate Division: GA 9

NWS Call Sign:

Elevation: 13 Feet

Lat: 31° 10N

Lon: 81° 30W

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	62.8	43.9	53.4	86	1972	10	67.6	1974	5+	1985	21	44.9	1977	396	20	.0	.0	27.9	@	6.5	.0
Feb	65.9	46.7	56.3	89	1982	18	62.1	1990	18+	1996	5	47.6	1978	259	15	.0	.0	26.5	.1	3.9	.0
Mar	71.9	53.5	62.7	92	1935	23	67.9	1997	21	1980	3	57.2	1996	130	58	.0	.1	30.5	.0	.7	.0
Apr	78.1	59.0	68.6	99	1986	28	72.9	1991	33	1982	9	63.8	1993	34	139	.0	1.4	30.0	.0	.0	.0
May	84.3	67.1	75.7	101	1953	25	80.1	1991	38	1980	10	71.1	1988	1	333	.0	5.1	31.0	.0	.0	.0
Jun	89.5	72.9	81.2	104	1952	25	86.0	1981	51	1984	1	77.7	1997	0	486	.7	15.2	30.0	.0	.0	.0
Jul	92.4	75.5	84.0	106	1986	21	87.1	1986	56	1975	9	81.5	1984	0	586	1.1	24.2	31.0	.0	.0	.0
Aug	90.7	75.2	83.0	103+	1999	1	84.9	1975	62+	1990	10	80.7	1994	0	556	.4	19.4	31.0	.0	.0	.0
Sep	86.5	72.1	79.3	101+	1983	12	82.1	1977	40	1982	23	77.2	1994	0	429	.1	8.9	30.0	.0	.0	.0
Oct	79.2	62.1	70.7	95+	1986	3	75.8	1985	36	1957	28	64.3	1987	36	210	.0	1.0	31.0	.0	.0	.0
Nov	72.0	54.2	63.1	89	1941	1	71.0	1985	21	1950	25	56.8	1976	136	80	.0	.0	29.9	.0	.4	.0
Dec	64.6	47.0	55.8	87	1982	7	64.7	1971	11	1983	25	47.4	1989	316	30	.0	.0	29.0	@	4.2	.0
Ann	78.2	60.8	69.5	106	Jul 1986	21	87.1	Jul 1986	5+	Jan 1985	21	44.9	Jan 1977	1308	2942	2.3	75.3	357.8	.1	15.7	.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

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
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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	4.11	3.62	3.80	1992	14	9.01	1991	1.01	1989	9.2	6.1	2.6	1.1	1.23	1.62	2.21	2.71	3.20	3.71	4.27	4.93	5.79	7.12	8.36
Feb	3.59	3.18	4.43	1988	19	9.94	1987	.76	1989	8.0	5.4	2.4	1.0	.80	1.14	1.66	2.14	2.61	3.12	3.68	4.36	5.25	6.67	8.01
Mar	3.97	3.29	3.50	1984	28	8.70	1984	.29	1999	7.4	5.4	2.8	1.2	.92	1.29	1.87	2.39	2.91	3.46	4.07	4.81	5.77	7.30	8.74
Apr	2.79	2.46	4.02	1973	3	7.53	1973	.30	1986	5.8	4.2	1.7	.8	.44	.68	1.08	1.47	1.87	2.30	2.80	3.41	4.23	5.55	6.82
May	2.72	2.48	5.07	1969	15	7.05	1976	.17	1996	7.5	4.7	1.9	.7	.55	.80	1.20	1.56	1.93	2.33	2.77	3.31	4.02	5.15	6.22
Jun	5.53	5.16	6.75	1972	19	14.03	1995	.98	1988	11.2	7.9	3.1	1.4	1.34	1.86	2.67	3.38	4.10	4.85	5.69	6.70	8.01	10.09	12.04
Jul	4.88	4.17	4.58	1944	5	10.65	1991	.53	1972	11.2	7.7	3.3	1.5	1.23	1.69	2.40	3.03	3.65	4.31	5.03	5.90	7.03	8.81	10.49
Aug	6.50	6.05	7.10	1942	12	13.01	1981	1.80	1994	11.9	8.8	4.3	2.0	2.16	2.78	3.68	4.45	5.19	5.94	6.78	7.75	8.99	10.93	12.71
Sep	6.44	5.44	7.93	1950	6	17.37	1989	1.06	1972	11.1	8.3	4.6	2.2	1.22	1.79	2.74	3.61	4.50	5.46	6.54	7.85	9.59	12.38	15.04
Oct	3.56	2.08	9.92	1944	19	13.74	1994	.00	1974	7.1	4.3	1.9	.9	.16	.47	.99	1.51	2.08	2.71	3.45	4.38	5.65	7.76	9.83
Nov	2.49	2.13	6.00	1969	1	6.49	1977	.25	1978	6.9	3.9	1.5	.7	.28	.47	.81	1.16	1.53	1.95	2.43	3.04	3.86	5.21	6.53
Dec	2.84	2.19	3.59	1941	4	7.67	1997	.26	1984	8.6	5.1	1.9	.7	.38	.61	1.02	1.41	1.83	2.29	2.82	3.47	4.35	5.79	7.18
Ann	49.42	49.33	9.92	Oct 1944	19	17.37	Sep 1989	.00	Oct 1974	105.9	71.8	32.0	14.2	37.45	39.83	42.84	45.10	47.10	49.01	50.98	53.15	55.76	59.52	62.74

+ 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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Lat: 31°10N

Lon: 81°30W

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	#	1977	18	#	1977	#	1977	18	#	1977	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1977	16	#	1977	0	0	0	0	0	.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	#+	Feb 1977	16	#+	Feb 1977	#	Jan 1977	18	#	Jan 1977	.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	4/04	3/25	3/18	3/12	3/07	3/01	2/23	2/16	2/07
32	3/16	3/08	3/02	2/24	2/19	2/14	2/09	2/02	1/23
28	3/05	2/24	2/17	2/11	2/05	1/30	1/23	1/12	0/00
24	2/17	2/07	1/30	1/21	1/11	0/00	0/00	0/00	0/00
20	1/23	1/13	1/03	0/00	0/00	0/00	0/00	0/00	0/00
16	1/06	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	11/02	11/10	11/16	11/20	11/25	11/29	12/04	12/10	12/17
32	11/17	11/24	11/30	12/05	12/09	12/14	12/19	12/25	1/03
28	12/04	12/14	12/21	12/28	1/03	1/09	1/17	1/29	0/00
24	12/25	1/06	1/15	1/24	2/04	0/00	0/00	0/00	0/00
20	1/03	1/13	1/27	0/00	0/00	0/00	0/00	0/00	0/00
16	1/24	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	300	287	278	270	262	255	247	238	225
32	332	314	305	297	291	284	277	270	259
28	>365	>365	>365	336	323	315	307	298	287
24	>365	>365	>365	>365	>365	>365	>365	351	329
20	>365	>365	>365	>365	>365	>365	>365	>365	359
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:

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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	396	259	130	34	1	0	0	0	0	36	136	316	1308
60	280	153	54	7	0	0	0	0	0	11	65	205	775
57	223	106	26	2	0	0	0	0	0	4	36	152	549
55	190	79	15	0	0	0	0	0	0	2	23	121	430
50	114	30	2	0	0	0	0	0	0	0	6	59	211
32	6	0	0	0	0	0	0	0	0	0	0	0	6

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	668	681	952	1096	1355	1476	1609	1579	1419	1198	934	737	13704
55	139	115	254	406	642	786	896	866	729	487	267	145	5732
57	110	86	203	347	580	726	834	804	669	427	220	114	5120
60	74	50	138	262	487	636	741	711	579	340	159	74	4251
65	20	15	58	139	333	486	586	556	429	210	80	30	2942
70	16	3	16	55	190	336	431	401	281	110	30	11	1880

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	402	452	672	831	1071	1211	1336	1310	1161	924	670	467	402	854	1526	2357	3428	4639	5975	7285	8446	9370	10040	10507
45	272	322	518	681	916	1061	1181	1155	1011	769	520	325	272	594	1112	1793	2709	3770	4951	6106	7117	7886	8406	8731
50	161	205	371	532	761	911	1026	1000	861	614	375	206	161	366	737	1269	2030	2941	3967	4967	5828	6442	6817	7023
55	83	111	238	385	607	761	871	845	711	459	247	113	83	194	432	817	1424	2185	3056	3901	4612	5071	5318	5431
60	34	49	129	243	453	611	716	690	561	313	139	54	34	83	212	455	908	1519	2235	2925	3486	3799	3938	3992
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	235	267	412	540	744	847	925	924	824	621	419	274	235	502	914	1454	2198	3045	3970	4894	5718	6339	6758	7032

(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