

# Climatology of the United States

No. 20

1971-2000

Station: BELLE GLADE EXP STN, FL

COOP ID: 080611

Climate Division: FL 5

NWS Call Sign:

Elevation: 15 Feet

Lat: 26° 39N

Lon: 80° 38W

## 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	76.0	51.9	64.0	89	1929	26	71.0	1974	21	1982	12	54.6	1981	138	92	.0	.0	30.9	.0	.9	.0
Feb	77.5	52.5	65.0	92	1928	25	70.6	1975	27	1947	6	58.5	1978	86	85	.0	.1	28.1	.0	.4	.0
Mar	81.1	56.6	68.9	93+	2000	18	73.8	1997	27	1941	2	63.7	1999	34	153	.0	.9	31.0	.0	.1	.0
Apr	84.8	59.3	72.1	95+	2001	14	75.6	1994	33	1931	8	65.1	1987	9	220	.0	2.8	30.0	.0	.0	.0
May	88.7	64.9	76.8	99	1924	27	80.3	1995	44+	1928	10	73.5	1992	0	366	.0	8.8	31.0	.0	.0	.0
Jun	91.3	70.0	80.7	98+	1998	18	83.8	1998	54+	1933	4	78.4	1984	0	469	.0	17.6	30.0	.0	.0	.0
Jul	92.6	71.1	81.9	100+	1931	21	83.7	1979	60	1946	29	80.7	1985	0	523	.0	24.2	31.0	.0	.0	.0
Aug	92.5	71.3	81.9	99+	1931	23	83.7	1998	61	1945	3	81.0	1994	0	523	.0	25.3	31.0	.0	.0	.0
Sep	90.9	70.4	80.7	97	1994	4	81.8	1998	60+	1990	25	78.8	1985	0	470	.0	18.1	30.0	.0	.0	.0
Oct	86.9	65.5	76.2	96	1973	23	78.9	1985	39	1989	21	73.3	1987	0	347	.0	5.3	31.0	.0	.0	.0
Nov	81.9	60.0	71.0	91+	1996	3	76.2	1986	32+	1956	28	67.5	1981	10	189	.0	.2	30.0	.0	.0	.0
Dec	77.2	54.4	65.8	89+	2000	15	71.0	1971	24	1989	25	59.6	1989	76	101	.0	.0	30.9	.0	.5	.0
Ann	85.1	62.3	73.8	100+	Jul 1931	21	83.8	Jun 1998	21	Jan 1982	12	54.6	Jan 1981	353	3538	.0	103.3	364.9	.0	1.9	.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](http://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: 1924-2001

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

006-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: BELLE GLADE EXP STN, FL**

**COOP ID: 080611**

**Climate Division: FL 5**

**NWS Call Sign:**

**Elevation: 15 Feet**

**Lat: 26°39N**

**Lon: 80°38W**

### Precipitation (inches)

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	2.51	1.56	6.03	1957	21	10.21	1993	.08	1975	7.5	3.8	1.5	.6	.17	.32	.64	.98	1.37	1.82	2.36	3.04	4.00	5.61	7.22
Feb	1.88	1.45	2.80	1983	13	8.89	1983	.08	1985	6.3	3.6	1.3	.4	.14	.27	.51	.77	1.06	1.39	1.79	2.29	2.98	4.15	5.30
Mar	2.65	2.29	6.53	1947	2	8.13	1982	.13	1999	6.8	4.3	1.9	.7	.29	.49	.86	1.23	1.63	2.07	2.59	3.23	4.11	5.56	6.97
Apr	2.41	1.75	4.12	1941	8	7.69	1972	.06	1987	6.3	4.1	1.4	.7	.17	.32	.63	.96	1.33	1.76	2.28	2.93	3.84	5.37	6.89
May	5.04	4.84	3.66	1963	4	11.75	1982	.47	1983	9.9	6.6	3.3	1.8	1.05	1.51	2.25	2.92	3.60	4.33	5.15	6.13	7.42	9.50	11.46
Jun	7.33	7.03	6.96	1942	4	16.77	1992	1.26	1980	14.8	10.2	4.9	2.5	1.89	2.59	3.65	4.59	5.51	6.49	7.57	8.85	10.53	13.17	15.65
Jul	7.34	7.60	5.65	1973	23	13.69	1975	2.75	1992	16.3	10.5	4.9	2.4	3.01	3.69	4.63	5.41	6.15	6.89	7.70	8.62	9.79	11.58	13.21
Aug	7.16	6.67	6.74	1949	27	17.35	1981	2.83	1991	16.8	10.9	4.6	2.2	3.06	3.71	4.61	5.35	6.05	6.75	7.51	8.38	9.47	11.15	12.66
Sep	7.09	6.56	7.10	1948	22	13.61	1979	2.52	1988	16.2	10.4	4.9	2.2	2.86	3.51	4.43	5.19	5.91	6.64	7.43	8.33	9.49	11.25	12.85
Oct	3.54	3.42	6.29	1951	2	12.68	1994	.11	1988	9.8	5.7	2.4	.9	.24	.46	.91	1.39	1.94	2.57	3.33	4.29	5.64	7.91	10.16
Nov	2.79	2.10	10.90	1932	7	11.25	1998	.01	1973	7.7	4.0	1.5	.8	.19	.36	.71	1.09	1.52	2.02	2.62	3.38	4.45	6.24	8.03
Dec	1.82	.96	4.44	1963	31	7.32	1994	.10	1984	6.8	3.4	1.2	.4	.11	.22	.45	.70	.98	1.30	1.70	2.20	2.90	4.10	5.28
Ann	51.56	51.16	10.90	Nov 1932	7	17.35	Aug 1981	.01	Nov 1973	125.2	77.5	33.8	15.6	38.18	40.81	44.16	46.69	48.93	51.08	53.30	55.74	58.69	62.94	66.61

+ 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: 1924-2001

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

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NWS Call Sign:

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Lat: 26°39N

Lon: 80°38W

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	#	1977	19	#	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	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	#	Jan 1977	19	#	Jan 1977	0	0	0	0	0	.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	3/17	3/04	2/23	2/16	2/08	1/31	1/22	1/10	0/00
32	2/23	2/10	1/31	1/22	1/10	12/22	0/00	0/00	0/00
28	1/18	1/05	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	1/03	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	12/06	12/14	12/20	12/26	12/31	1/05	1/11	1/20	0/00
32	12/19	12/30	1/08	1/18	1/29	0/00	0/00	0/00	0/00
28	1/09	1/22	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	1/21	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	>365	>365	362	339	326	315	305	294	279
32	>365	>365	>365	>365	>365	>365	343	328	317
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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:

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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	138	86	34	9	0	0	0	0	0	0	10	76	353
60	73	30	8	0	0	0	0	0	0	0	1	24	136
57	42	14	2	0	0	0	0	0	0	0	0	10	68
55	29	8	0	0	0	0	0	0	0	0	0	6	43
50	11	1	0	0	0	0	0	0	0	0	0	1	13
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	990	924	1142	1201	1389	1459	1546	1546	1460	1370	1168	1048	15243
55	306	288	429	511	676	769	833	833	770	657	478	341	6891
57	258	238	369	451	614	709	771	771	710	595	418	284	6188
60	195	170	282	361	521	619	678	678	620	502	329	204	5159
65	92	85	153	220	366	469	523	523	470	347	189	101	3538
70	50	29	66	106	214	319	368	368	320	197	80	34	2151

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	740	719	889	950	1136	1208	1282	1288	1210	1114	923	798	740	1459	2348	3298	4434	5642	6924	8212	9422	10536	11459	12257
45	587	574	734	800	981	1058	1127	1133	1060	959	773	645	587	1161	1895	2695	3676	4734	5861	6994	8054	9013	9786	10431
50	441	431	580	650	826	908	972	978	910	804	623	495	441	872	1452	2102	2928	3836	4808	5786	6696	7500	8123	8618
55	301	302	429	501	671	758	817	823	760	649	475	350	301	603	1032	1533	2204	2962	3779	4602	5362	6011	6486	6836
60	183	181	284	355	516	608	662	668	610	496	332	220	183	364	648	1003	1519	2127	2789	3457	4067	4563	4895	5115
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	478	463	587	641	786	844	897	899	852	783	627	517	478	941	1528	2169	2955	3799	4696	5595	6447	7230	7857	8374

(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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)