U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUART 1 S, FL **COOP ID: 088620**

Climate Division: FL 6 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 27˚11N** **Lon: 80˚14W**

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	74.2	54.7	64.5	89	1991	31	70.3	1974	23	1985	22	55.4	1981	125	93	.0	.0	31.0	.0	.5	.0
Feb	74.7	55.3	65.0	89+	1986	11	70.8	1994	28	1989	24	57.8	1978	84	83	.0	.0	28.2	.0	.2	.0
Mar	77.6	59.6	68.6	93+	1977	22	74.3	1997	26	1984	25	64.7	1981	33	144	.0	.5	31.0	.0	.1	.0
Apr	80.7	63.9	72.3	96	1949	4	75.9	1991	37+	1971	9	67.1	1987	4	223	.0	1.8	30.0	.0	.0	.0
May	84.8	68.8	76.8	98+	1953	27	79.2	1991	45+	1971	5	74.5	1972	0	366	.0	5.4	31.0	.0	.0	.0
Jun	88.1	72.7	80.4	101	1952	12	84.0	1998	55	1980	16	77.9	1974	0	462	.0	11.0	30.0	.0	.0	.0
Jul	89.5	74.0	81.8	101	1981	16	84.2	1998	59	1971	7	78.7	1974	0	520	.1	17.0	31.0	.0	.0	.0
Aug	89.6	74.7	82.2	99+	1993	21	84.4	1983	61	1976	18	80.0	1974	0	531	.0	18.5	31.0	.0	.0	.0
Sep	88.5	74.1	81.3	97+	1999	4	83.1	1993	62	1956	27	79.6	1975	0	490	.0	12.6	30.0	.0	.0	.0
Oct	84.6	69.6	77.1	96+	1986	11	80.2	1998	44	1989	21	73.4	1982	0	375	.0	3.1	31.0	.0	.0	.0
Nov	79.7	63.5	71.6	92+	1951	2	76.2	1986	31	1950	26	67.6	1981	8	205	.0	.0	30.0	.0	.0	.0
Dec	75.4	57.7	66.6	89+	1972	6	70.4	1998	26	1962	13	60.7	1989	61	108	.0	.0	31.0	.0	.3	.0
Ann	82.3	65.7	74.0	101+	Jul 1981	16	84.4	Aug 1983	23	Jan 1985	22	55.4	Jan 1981	315	3600	.1	69.9	365.2	.0	1.1	.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/normals/usnormals.html

(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

Issue Date: February 2004

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUART 1 S, FL **COOP ID: 088620**

Climate Division: FL 6 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 27˚11N** **Lon: 80˚14W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.02	2.63	3.55	1993	25	11.44	1993	.16	1975
Feb	3.24	2.26	4.10	1952	3	13.47	1983	.16	1985
Mar	4.06	3.64	9.10	1970	26	13.01	1982	.03	1976
Apr	2.96	2.82	3.90	1959	21	7.92	1991	.21	1977
May	5.30	4.67	3.98	1956	9	13.50	1982	.67	1985
Jun	6.82	5.94	7.55	1999	17	19.98	1999	1.89	1981
Jul	6.33	6.10	4.45	1972	8	12.44	1974	2.72	1981
Aug	6.41	5.27	9.24	1964	27	15.21	1992	1.88	1987
Sep	8.09	6.86	6.36	1948	22	22.97	1979	1.55	1988
Oct	6.29	4.70	16.05	1995	18	24.48	1995	1.54	1997
Nov	4.23	3.34	6.77	1982	16	12.71	1982	.24	1995
Dec	2.78	2.40	4.50	1963	31	8.37	1994	.30	1980
Ann	59.53	55.42	16.05	Oct 1995	18	24.48	Oct 1995	.03	Mar 1976

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.6	5.1	2.1	1.0
Feb	8.9	5.2	1.8	1.0
Mar	8.1	5.6	2.5	1.4
Apr	9.1	6.0	1.9	.9
May	11.3	7.7	3.3	1.6
Jun	15.8	10.5	4.2	1.8
Jul	16.7	11.5	4.7	1.7
Aug	16.1	11.2	4.7	2.0
Sep	16.8	11.0	4.4	2.3
Oct	13.8	9.4	3.5	1.5
Nov	10.2	6.4	2.0	1.0
Dec	9.0	5.1	1.4	.8
Ann	144.4	94.7	36.5	17.0

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.33	.56	.98	1.40	1.85	2.35	2.95	3.68	4.69	6.35	7.96
Feb	.26	.48	.91	1.36	1.85	2.42	3.09	3.95	5.12	7.10	9.04
Mar	.35	.63	1.17	1.73	2.35	3.05	3.89	4.94	6.39	8.82	11.20
Apr	.49	.75	1.18	1.59	2.01	2.46	2.98	3.61	4.46	5.83	7.14
May	1.50	2.01	2.77	3.43	4.07	4.75	5.49	6.37	7.51	9.30	10.97
Jun	2.30	2.94	3.89	4.69	5.46	6.25	7.12	8.13	9.43	11.45	13.30
Jul	2.61	3.19	4.00	4.67	5.30	5.94	6.63	7.42	8.43	9.96	11.35
Aug	1.86	2.47	3.39	4.18	4.95	5.76	6.65	7.70	9.06	11.19	13.17
Sep	2.27	3.04	4.20	5.21	6.20	7.24	8.38	9.73	11.49	14.24	16.81
Oct	1.17	1.73	2.66	3.51	4.38	5.32	6.38	7.67	9.38	12.13	14.75
Nov	.47	.79	1.38	1.97	2.60	3.31	4.14	5.16	6.56	8.88	11.13
Dec	.30	.50	.89	1.27	1.69	2.16	2.71	3.39	4.32	5.86	7.37
Ann	37.06	41.19	46.60	50.78	54.56	58.25	62.10	66.41	71.70	79.48	86.31

\+ 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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: STUART 1 S, FL **COOP ID: 088620**

Climate Division: FL 6 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 27°11N** **Lon: 80°14W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.0	0	0
Feb	.0	.0	0	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	.0	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	.0	0	0	.0	0	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	.0	0	0	.0	0	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUART 1 S, FL **COOP ID: 088620**

Climate Division: FL 6 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 27˚11N** **Lon: 80˚14W**

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	3/03	2/20	2/12	2/05	1/28	1/17	0/00	0/00	0/00
32	2/23	2/09	1/28	1/16	12/31	0/00	0/00	0/00	0/00
28	2/15	1/21	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	12/18	12/29	1/06	1/14	1/22	2/02	0/00	0/00	0/00
32	12/25	1/07	1/17	1/28	2/12	0/00	0/00	0/00	0/00
28	1/11	2/06	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	>365	>365	>365	346	334	323	310
32	>365	>365	>365	>365	>365	>365	>365	341	320
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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUART 1 S, FL **COOP ID: 088620**

Climate Division: FL 6 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 27˚11N** **Lon: 80˚14W**

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	125	84	33	4	0	0	0	0	0	0	8	61	315
60	58	28	6	0	0	0	0	0	0	0	0	17	109
57	32	13	1	0	0	0	0	0	0	0	0	6	52
55	21	7	0	0	0	0	0	0	0	0	0	3	31
50	7	0	0	0	0	0	0	0	0	0	0	0	7
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	1005	923	1135	1209	1389	1452	1543	1554	1480	1398	1188	1070	15346
55	313	286	422	519	676	762	830	841	790	685	498	360	6982
57	262	236	361	459	614	702	768	779	730	623	438	301	6273
60	195	168	273	369	521	612	675	686	640	530	348	218	5235
65	93	83	144	223	366	462	520	531	490	375	205	108	3600
70	46	27	57	100	214	312	365	376	340	224	91	36	2188

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	800	764	921	994	1163	1227	1311	1319	1255	1168	970	848	800	1564	2485	3479	4642	5869	7180	8499	9754	10922	11892	12740
45	645	619	766	844	1008	1077	1156	1164	1105	1013	820	694	645	1264	2030	2874	3882	4959	6115	7279	8384	9397	10217	10911
50	492	476	612	694	853	927	1001	1009	955	858	670	541	492	968	1580	2274	3127	4054	5055	6064	7019	7877	8547	9088
55	347	337	458	544	698	777	846	854	805	703	520	391	347	684	1142	1686	2384	3161	4007	4861	5666	6369	6889	7280
60	216	210	305	395	543	627	691	699	655	548	371	256	216	426	731	1126	1669	2296	2987	3686	4341	4889	5260	5516
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	524	499	615	690	833	882	936	945	905	840	671	559	524	1023	1638	2328	3161	4043	4979	5924	6829	7669	8340	8899

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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