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: FORT PIERCE, FL **COOP ID: 083207**

Climate Division: FL 4 **NWS Call Sign:** **Elevation: 25 Feet** **Lat: 27˚28N** **Lon: 80˚21W**

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	74.4	50.7	62.6	89+	1991	31	71.1	1974	10	1952	23	53.9	1981	170	79	.0	.0	30.9	.0	1.0	.0
Feb	75.3	51.6	63.5	90	1935	15	69.5	1975	25+	1996	5	56.5	1978	112	68	.0	.0	28.2	.0	.4	.0
Mar	78.9	55.8	67.4	92+	1977	20	72.4	1997	26	1980	3	63.1	1983	59	131	.0	.8	31.0	.0	.1	.0
Apr	82.1	60.6	71.4	97	1971	30	75.3	1994	33	1987	5	65.9	1987	10	200	.0	1.8	30.0	.0	.0	.0
May	86.5	66.5	76.5	98+	1995	18	79.0	1991	45	1992	8	73.2	1992	0	357	.0	6.1	31.0	.0	.0	.0
Jun	89.6	71.0	80.3	101	1950	28	82.6	1998	56	1984	1	78.6	1976	0	460	.1	14.2	30.0	.0	.0	.0
Jul	91.5	71.9	81.7	101+	1993	20	83.7	1981	64+	1995	8	79.9	1974	0	517	.1	23.6	31.0	.0	.0	.0
Aug	91.1	72.2	81.7	98+	1998	26	83.4	1980	61	1997	28	80.0	1992	0	517	.0	23.6	31.0	.0	.0	.0
Sep	89.6	71.7	80.7	99+	1998	1	82.3	1974	60	1964	26	79.2	1992	0	469	.0	15.7	30.0	.0	.0	.0
Oct	85.5	67.2	76.4	98	1998	12	79.8	1985	42	1989	21	73.5	1977	0	352	.0	3.6	31.0	.0	.0	.0
Nov	80.5	60.2	70.4	92	1992	5	76.0	1986	31	1970	25	66.5	1995	17	178	.0	.2	30.0	.0	.0	.0
Dec	75.9	53.6	64.8	89+	1953	22	71.1	1971	19	1989	24	56.6	1989	109	102	.0	.0	30.9	.0	.6	.0
Ann	83.4	62.8	73.1	101+	Jul 1993	20	83.7	Jul 1981	10	Jan 1952	23	53.9	Jan 1981	477	3430	.2	89.6	365.0	.0	2.1	.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: 1931-2001

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Issue Date: February 2004

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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	2.70	2.65	2.66	1993	25	9.46	1993	.19	1975
Feb	2.99	2.48	3.34	1994	17	9.70	1994	.24	1985
Mar	3.27	2.54	6.58	1953	21	12.46	1996	.48	1974
Apr	2.77	2.07	5.92	1933	17	10.37	1997	.17	1986
May	4.38	4.26	6.89	1937	5	12.97	1982	.36	2000
Jun	5.84	5.50	3.96	1968	3	14.13	1992	.78	1981
Jul	5.79	5.81	3.74	1931	17	13.17	1991	.82	1999
Aug	6.35	5.28	5.94	1964	27	17.66	1995	1.31	1980
Sep	7.81	7.11	6.62	1963	24	17.50	1985	1.46	1988
Oct	5.82	4.98	10.00	1936	13	14.29	1999	.66	1976
Nov	3.50	2.44	5.40	1937	27	9.33	1984	.59	2000
Dec	2.28	1.70	4.53	1942	11	7.42	1994	.27	1987
Ann	53.50	52.34	10.00	Oct 1936	13	17.66	Aug 1995	.17	Apr 1986

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	4.4	1.7	.7
Feb	8.5	4.7	2.1	.7
Mar	7.9	4.6	2.1	.9
Apr	7.0	4.3	1.9	.7
May	10.0	6.7	2.9	1.4
Jun	13.4	8.7	4.1	1.7
Jul	14.0	8.6	3.5	1.9
Aug	14.7	9.9	4.4	1.7
Sep	15.1	10.5	4.4	2.4
Oct	12.9	7.9	3.5	1.7
Nov	9.9	5.2	1.9	1.1
Dec	8.3	4.4	1.6	.5
Ann	130.7	79.9	34.1	15.4

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	.39	.61	1.00	1.38	1.77	2.20	2.69	3.30	4.12	5.45	6.74
Feb	.36	.59	1.01	1.43	1.87	2.37	2.94	3.66	4.63	6.22	7.76
Mar	.41	.68	1.14	1.59	2.08	2.61	3.23	4.00	5.03	6.74	8.38
Apr	.32	.54	.93	1.31	1.72	2.18	2.72	3.38	4.28	5.77	7.22
May	.98	1.39	2.03	2.61	3.18	3.80	4.49	5.31	6.39	8.12	9.75
Jun	1.90	2.45	3.27	3.96	4.63	5.33	6.09	6.97	8.12	9.89	11.53
Jul	1.41	1.95	2.80	3.55	4.30	5.08	5.96	7.01	8.38	10.55	12.59
Aug	2.07	2.68	3.56	4.32	5.05	5.80	6.62	7.58	8.82	10.75	12.52
Sep	2.52	3.26	4.35	5.29	6.19	7.12	8.14	9.33	10.87	13.26	15.47
Oct	1.05	1.57	2.42	3.21	4.02	4.90	5.89	7.09	8.69	11.27	13.72
Nov	.63	.94	1.45	1.93	2.42	2.94	3.54	4.27	5.24	6.80	8.28
Dec	.26	.44	.76	1.08	1.42	1.80	2.24	2.79	3.53	4.76	5.96
Ann	35.73	39.09	43.43	46.77	49.75	52.64	55.65	59.00	63.07	69.03	74.22

\+ 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: 1931-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	#	.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	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	#	1977	19	#	1977	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	#	Jan 1977	19	#	Jan 1977	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

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	3/15	3/04	2/24	2/18	2/11	2/05	1/29	1/19	1/02
32	2/26	2/14	2/05	1/28	1/19	1/07	0/00	0/00	0/00
28	2/06	1/21	1/04	0/00	0/00	0/00	0/00	0/00	0/00
24	1/12	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	11/30	12/13	12/22	12/30	1/06	1/14	1/22	2/02	2/22
32	12/20	1/01	1/11	1/19	1/29	2/10	0/00	0/00	0/00
28	1/03	1/22	2/17	0/00	0/00	0/00	0/00	0/00	0/00
24	1/18	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	355	334	321	311	302	291	278
32	>365	>365	>365	>365	>365	>365	353	331	315
28	>365	>365	>365	>365	>365	>365	>365	>365	347
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

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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	170	112	59	10	0	0	0	0	0	0	17	109	477
60	98	47	17	1	0	0	0	0	0	0	3	45	211
57	61	23	7	0	0	0	0	0	0	0	0	23	114
55	43	14	3	0	0	0	0	0	0	0	0	15	75
50	17	3	0	0	0	0	0	0	0	0	0	4	24
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	946	880	1096	1180	1380	1450	1540	1540	1459	1375	1151	1016	15013
55	276	250	386	490	667	760	827	827	769	662	461	318	6693
57	232	203	327	430	605	700	765	765	709	600	401	264	6001
60	176	143	244	341	512	610	672	672	619	507	313	193	5002
65	79	68	131	200	357	460	517	517	469	352	178	102	3430
70	43	22	55	88	204	310	362	362	319	202	76	38	2081

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	730	708	884	961	1147	1217	1300	1303	1229	1137	926	788	730	1438	2322	3283	4430	5647	6947	8250	9479	10616	11542	12330
45	575	564	729	811	992	1067	1145	1148	1079	982	776	633	575	1139	1868	2679	3671	4738	5883	7031	8110	9092	9868	10501
50	425	424	574	661	837	917	990	993	929	827	626	484	425	849	1423	2084	2921	3838	4828	5821	6750	7577	8203	8687
55	287	292	422	511	682	767	835	838	779	672	479	341	287	579	1001	1512	2194	2961	3796	4634	5413	6085	6564	6905
60	172	173	279	361	527	617	680	683	629	517	333	214	172	345	624	985	1512	2129	2809	3492	4121	4638	4971	5185
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	471	459	586	654	813	866	903	913	873	809	636	519	471	930	1516	2170	2983	3849	4752	5665	6538	7347	7983	8502

(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:
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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