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 LAUDERDALE, FL **COOP ID: 083163**

Climate Division: FL 6 **NWS Call Sign:** **Elevation: 16 Feet** **Lat: 26˚06N** **Lon: 80˚12W**

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	75.8	59.2	67.5	88+	1979	14	73.8	1974	28+	1977	20	58.8	1981	77	140	.0	.0	31.0	.0	.3	.0
Feb	76.6	59.7	68.2	94	1964	15	73.4	1997	31	1958	5	61.8	1978	47	134	.0	.0	28.2	.0	.0	.0
Mar	79.1	63.1	71.1	92	1977	22	75.4	1997	32	1980	3	66.6	1983	13	202	.0	.1	31.0	.0	@	.0
Apr	82.1	66.3	74.2	94+	1999	12	77.3	1991	40	1950	7	70.3	1987	1	277	.0	1.4	30.0	.0	.0	.0
May	85.5	71.0	78.3	97	1971	1	81.3	1995	54+	1992	8	75.8	1977	0	411	.0	4.4	31.0	.0	.0	.0
Jun	88.2	74.2	81.2	97+	1998	2	84.8	1998	60	1966	9	78.9	1976	0	485	.0	9.8	30.0	.0	.0	.0
Jul	89.8	75.4	82.6	99+	1980	13	84.0	1998	64+	1975	9	80.9	1985	0	545	.0	15.1	31.0	.0	.0	.0
Aug	90.1	75.7	82.9	98+	1964	31	85.0	1998	66+	1981	20	81.7	1977	0	554	.0	17.1	31.0	.0	.0	.0
Sep	89.0	74.9	82.0	98+	1977	14	83.2	1998	61	1965	26	80.5	1984	0	509	.0	9.1	30.0	.0	.0	.0
Oct	85.9	71.6	78.8	98	2000	9	80.8	1995	47	1976	22	75.9	1976	0	425	.0	2.4	31.0	.0	.0	.0
Nov	81.3	66.9	74.1	91+	1958	9	78.5	1986	35+	1950	29	70.2	1981	2	274	.0	.0	30.0	.0	.0	.0
Dec	77.1	61.7	69.4	88+	1983	4	73.8	1971	30+	1989	25	64.8	1989	27	164	.0	.0	31.0	.0	.1	.0
Ann	83.4	68.3	75.9	99+	Jul 1980	13	85.0	Aug 1998	28+	Jan 1977	20	58.8	Jan 1981	167	4120	.0	59.4	365.2	.0	.4	.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

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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	2.94	1.98	5.82	1997	14	10.03	1993	.49	1982
Feb	2.70	2.01	4.66	1997	16	13.81	1983	.10	1985
Mar	2.80	2.38	4.78	2001	19	11.16	1986	.09	1977
Apr	3.91	3.14	14.59	1979	25	19.47	1979	.19	1981
May	6.33	5.43	4.27	1964	21	12.69	1975	.63	1992
Jun	10.01	8.84	8.28	1999	8	24.37	1992	3.50	1971
Jul	6.70	6.91	5.12	1972	20	14.02	1985	1.71	1996
Aug	6.88	6.17	4.80	1953	29	15.48	1995	.98	1987
Sep	8.26	8.14	5.80	1948	22	15.48	1994	1.38	1988
Oct	6.44	4.93	10.45	1948	5	20.68	1999	.94	1977
Nov	4.57	3.83	10.45	1973	19	14.60	1994	.64	1990
Dec	2.65	2.31	5.38	1994	21	7.10	1983	.14	1989
Ann	64.19	63.94	14.59	Apr 1979	25	24.37	Jun 1992	.09	Mar 1977

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	4.9	1.8	.6
Feb	7.5	4.4	1.6	.7
Mar	7.8	4.3	1.9	.7
Apr	7.1	4.3	1.8	1.1
May	11.4	8.3	3.9	1.9
Jun	16.1	11.1	6.0	3.3
Jul	16.2	10.5	4.3	1.8
Aug	17.6	11.2	4.3	2.0
Sep	18.1	12.2	5.3	2.4
Oct	13.6	8.8	3.7	1.8
Nov	10.6	5.9	2.4	1.2
Dec	8.1	4.4	1.4	.6
Ann	143.1	90.3	38.4	18.1

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	.42	.66	1.08	1.49	1.92	2.39	2.93	3.59	4.49	5.95	7.35
Feb	.21	.39	.74	1.11	1.52	2.00	2.56	3.28	4.27	5.94	7.58
Mar	.19	.36	.71	1.09	1.52	2.02	2.63	3.39	4.46	6.27	8.06
Apr	.20	.42	.88	1.40	2.00	2.71	3.58	4.70	6.28	8.98	11.68
May	1.83	2.43	3.33	4.12	4.89	5.69	6.57	7.61	8.96	11.08	13.05
Jun	3.97	4.89	6.21	7.29	8.32	9.36	10.49	11.79	13.45	15.98	18.29
Jul	2.14	2.77	3.71	4.52	5.30	6.10	6.98	8.01	9.34	11.42	13.33
Aug	2.04	2.69	3.67	4.52	5.34	6.20	7.14	8.25	9.69	11.94	14.03
Sep	2.82	3.60	4.74	5.71	6.63	7.58	8.62	9.84	11.39	13.80	16.01
Oct	.86	1.38	2.30	3.20	4.14	5.18	6.38	7.86	9.87	13.15	16.31
Nov	.63	1.01	1.67	2.30	2.97	3.70	4.55	5.59	6.99	9.28	11.50
Dec	.29	.49	.86	1.23	1.62	2.06	2.58	3.23	4.11	5.57	6.99
Ann	44.73	48.47	53.27	56.93	60.19	63.34	66.60	70.22	74.61	80.99	86.52

\+ 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
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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	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

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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	2/11	1/27	1/11	0/00	0/00	0/00	0/00	0/00	0/00
32	1/24	1/03	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	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	1/01	1/17	2/01	0/00	0/00	0/00	0/00	0/00	0/00
32	1/08	1/30	0/00	0/00	0/00	0/00	0/00	0/00	0/00
28	0/00	0/00	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	>365	>365	>365	338
32	>365	>365	>365	>365	>365	>365	>365	>365	>365
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

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	77	47	13	1	0	0	0	0	0	0	2	27	167
60	35	14	1	0	0	0	0	0	0	0	0	5	55
57	19	6	0	0	0	0	0	0	0	0	0	2	27
55	13	2	0	0	0	0	0	0	0	0	0	1	16
50	2	0	0	0	0	0	0	0	0	0	0	0	2
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1100	1011	1212	1266	1434	1475	1568	1577	1499	1448	1262	1160	16012
55	400	370	499	576	721	785	855	864	809	735	572	448	7634
57	344	317	437	516	659	725	793	802	749	673	512	387	6914
60	267	241	346	426	566	635	700	709	659	580	422	298	5849
65	140	134	202	277	411	485	545	554	509	425	274	164	4120
70	87	61	93	139	256	335	390	399	359	270	140	70	2599

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	864	828	978	1037	1196	1246	1326	1332	1256	1202	1029	921	864	1692	2670	3707	4903	6149	7475	8807	10063	11265	12294	13215
45	710	683	823	887	1041	1096	1171	1177	1106	1047	879	766	710	1393	2216	3103	4144	5240	6411	7588	8694	9741	10620	11386
50	556	538	669	737	886	946	1016	1022	956	892	729	612	556	1094	1763	2500	3386	4332	5348	6370	7326	8218	8947	9559
55	407	396	514	587	731	796	861	867	806	737	579	461	407	803	1317	1904	2635	3431	4292	5159	5965	6702	7281	7742
60	269	258	361	437	576	646	706	712	656	582	429	316	269	527	888	1325	1901	2547	3253	3965	4621	5203	5632	5948
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	573	545	668	732	865	904	957	961	921	878	725	623	573	1118	1786	2518	3383	4287	5244	6205	7126	8004	8729	9352

(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