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 DRUM 5 NW, FL **COOP ID: 083137**

Climate Division: FL 4 **NWS Call Sign:** **Elevation: 71 Feet** **Lat: 27˚35N** **Lon: 80˚51W**

Temperature (˚F)

Month	Mean (1)			Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
	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	74.7	50.4	62.6	89	1989	12	70.0	1974	17	1982	12	52.6	1981	170	80	.0	.0	31.0	.0	1.6	.0
Feb	75.7	51.2	63.5	90	2001	1	69.4	1982	20	1996	5	56.6	1978	112	69	.0	.0	28.1	.0	1.2	.0
Mar	79.9	54.9	67.4	92+	1981	31	70.6	1977	26	1968	2	63.0	1971	42	117	.0	.5	31.0	.0	.2	.0
Apr	83.4	57.8	70.6	97+	1971	30	75.0	1994	32	1971	8	66.3	1987	12	179	.0	3.2	30.0	.0	@	.0
May	87.8	63.5	75.7	100+	1968	18	79.1	1995	42+	1971	5	73.0	1992	0	330	.0	9.5	31.0	.0	.0	.0
Jun	90.4	69.4	79.9	102+	1985	3	83.4	1998	53	1965	3	77.3	1976	0	447	.3	18.4	30.0	.0	.0	.0
Jul	91.7	71.0	81.4	101	1998	2	83.0	1998	60+	1981	1	79.4	1974	0	506	.1	24.7	31.0	.0	.0	.0
Aug	91.4	71.7	81.6	101	1958	2	83.9	1998	62	1972	3	80.0	1996	0	514	.0	25.3	31.0	.0	.0	.0
Sep	89.8	70.6	80.2	97+	1985	10	81.3+	1998	60	1996	22	78.7	1971	0	456	.0	18.7	30.0	.0	.0	.0
Oct	85.2	65.1	75.2	98	1985	18	79.8	1985	41	1977	18	71.7	1987	1	317	.0	4.6	31.0	.0	.0	.0
Nov	80.2	58.7	69.5	93	1998	1	75.5	1986	24	1970	25	65.6	1981	24	157	.0	.1	30.0	.0	@	.0
Dec	75.4	52.6	64.0	87+	1988	25	69.6	1971	21	1962	13	57.9	1989	112	81	.0	.0	30.9	.0	.9	.0
Ann	83.8	61.4	72.6	102+	Jun 1985	3	83.9	Aug 1998	17	Jan 1982	12	52.6	Jan 1981	473	3253	.4	105.0	365.0	.0	3.9	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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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	2.27	2.06	4.02	1979	12	6.80	1979	.00	1990
Feb	2.47	2.38	2.76	1966	23	7.60	1983	.27	1986
Mar	3.78	2.87	5.38	1987	31	16.05	1996	.08	1974
Apr	2.43	2.37	4.71	1951	7	6.40	1997	.00	1986
May	4.47	3.82	4.38	1975	17	14.52	1976	.30	2000
Jun	8.05	7.63	5.50	1959	18	17.67	1992	1.74	1979
Jul	7.60	7.25	4.98	1968	7	15.95	1975	2.93	1989
Aug	7.27	6.88	5.20	1992	7	13.50	1995	1.20	1987
Sep	6.60	6.18	8.56	1963	24	20.75	1979	1.65	1996
Oct	3.73	2.76	7.20	1956	15	13.88	1999	.57	1984
Nov	2.30	1.71	6.60	1998	5	6.75	1998	.00+	2000
Dec	1.86	1.60	2.50	1957	24	6.03	1997	.00+	1991
Ann	52.83	53.92	8.56	Sep 1963	24	20.75	Sep 1979	.00+	Nov 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.6	3.1	1.3	.5
Feb	5.4	3.6	1.8	.8
Mar	4.6	3.6	1.7	1.1
Apr	4.0	2.9	1.6	.6
May	6.7	5.3	2.8	1.4
Jun	11.4	9.4	5.4	3.1
Jul	10.3	8.2	4.7	2.5
Aug	10.7	8.4	3.9	2.2
Sep	10.1	7.7	3.7	1.8
Oct	7.0	4.4	1.7	1.1
Nov	5.2	3.1	1.0	.8
Dec	4.7	2.8	1.1	.3
Ann	84.7	62.5	30.7	16.2

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	.09	.27	.60	.93	1.29	1.70	2.18	2.79	3.63	5.02	6.39
Feb	.35	.55	.90	1.25	1.60	2.00	2.46	3.02	3.77	5.00	6.19
Mar	.23	.45	.92	1.43	2.01	2.69	3.51	4.57	6.04	8.54	11.03
Apr	.15	.39	.77	1.13	1.51	1.93	2.41	3.00	3.81	5.13	6.41
May	.46	.79	1.40	2.03	2.70	3.45	4.35	5.46	6.97	9.49	11.95
Jun	2.56	3.33	4.46	5.42	6.36	7.32	8.38	9.62	11.22	13.70	16.00
Jul	3.07	3.77	4.75	5.57	6.34	7.12	7.96	8.94	10.17	12.06	13.78
Aug	2.85	3.53	4.48	5.28	6.03	6.79	7.61	8.57	9.78	11.64	13.33
Sep	2.01	2.64	3.58	4.38	5.16	5.97	6.86	7.91	9.26	11.38	13.33
Oct	.44	.73	1.26	1.78	2.33	2.95	3.67	4.56	5.76	7.75	9.68
Nov	.00	.00	.66	1.07	1.46	1.88	2.35	2.93	3.67	4.90	6.07
Dec	.00	.00	.66	.99	1.29	1.60	1.96	2.38	2.90	3.76	4.57
Ann	37.01	40.06	43.97	46.94	49.59	52.15	54.81	57.74	61.30	66.48	70.96

\+ 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
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	3/19	3/09	3/01	2/22	2/16	2/09	2/02	1/25	1/11
32	3/04	2/21	2/14	2/07	1/31	1/24	1/15	1/02	0/00
28	2/20	2/08	1/28	1/15	0/00	0/00	0/00	0/00	0/00
24	1/28	1/11	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	11/25	12/07	12/15	12/23	12/29	1/05	1/13	1/22	2/05
32	12/11	12/20	12/27	1/01	1/07	1/13	1/20	1/31	0/00
28	12/23	1/04	1/14	1/25	0/00	0/00	0/00	0/00	0/00
24	1/11	1/28	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	344	326	316	308	300	293	284	273
32	>365	>365	>365	>365	337	328	321	314	305
28	>365	>365	>365	>365	>365	>365	>365	347	327
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	42	12	0	0	0	0	0	1	24	112	473
60	98	47	9	1	0	0	0	0	0	0	4	45	204
57	61	24	2	0	0	0	0	0	0	0	1	22	110
55	43	15	1	0	0	0	0	0	0	0	0	13	72
50	17	3	0	0	0	0	0	0	0	0	0	3	23
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	948	880	1098	1158	1353	1437	1529	1537	1446	1339	1123	992	14840
55	277	251	385	468	640	747	816	824	756	626	433	292	6515
57	233	204	325	408	578	687	754	762	696	564	374	239	5824
60	177	144	238	318	485	597	661	669	606	471	287	168	4821
65	80	69	117	179	330	447	506	514	456	317	157	81	3253
70	44	22	40	75	180	297	351	359	306	174	65	26	1939

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	708	688	858	929	1113	1207	1287	1298	1218	1101	891	755	708	1396	2254	3183	4296	5503	6790	8088	9306	10407	11298	12053
45	555	544	703	779	958	1057	1132	1143	1068	946	741	601	555	1099	1802	2581	3539	4596	5728	6871	7939	8885	9626	10227
50	407	403	549	629	803	907	977	988	918	791	591	450	407	810	1359	1988	2791	3698	4675	5663	6581	7372	7963	8413
55	271	272	398	480	648	757	822	833	768	636	443	311	271	543	941	1421	2069	2826	3648	4481	5249	5885	6328	6639
60	156	156	253	330	493	607	667	678	618	481	300	186	156	312	565	895	1388	1995	2662	3340	3958	4439	4739	4925
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	460	448	565	625	766	840	896	899	857	772	603	491	460	908	1473	2098	2864	3704	4600	5499	6356	7128	7731	8222

(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