

Climatology of the United States

No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: FLAMINGO RANGER STN, FL

1971-2000

COOP ID: 083020

Climate Division: FL 5

NWS Call Sign:

Elevation: 3 Feet

Lat: 25°09N

Lon: 80°55W

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	77.1	55.9	66.5	88+	1970	28	73.5	1974	27	1977	20	57.8	1981	93	123	.0	.0	31.0	.0	.5	.0
Feb	77.8	56.9	67.4	92	1993	12	73.4	1997	28	1995	9	61.4	1973	57	123	.0	@	28.2	.0	@	.0
Mar	80.2	60.4	70.3	89+	2001	30	74.2	1982	33	1986	3	66.6	1996	22	187	.0	.0	31.0	.0	.0	.0
Apr	83.4	63.8	73.6	94	1971	23	77.2	1991	43	1964	1	68.3	1987	3	262	.0	.4	30.0	.0	.0	.0
May	86.7	68.7	77.7	96	1985	16	81.4	1995	48	1992	8	74.3	1992	0	394	.0	2.7	31.0	.0	.0	.0
Jun	88.9	73.4	81.2	104	1998	24	84.0	1994	58	1977	2	78.9	1984	0	485	@	9.0	30.0	.0	.0	.0
Jul	90.1	74.1	82.1	100	1998	31	83.2	1993	62	1981	28	80.2	1974	0	530	@	16.3	31.0	.0	.0	.0
Aug	90.3	74.1	82.2	97	1978	15	84.6	2000	63+	1996	22	80.3	1988	0	533	.0	19.1	31.0	.0	.0	.0
Sep	89.4	73.6	81.5	102	2001	2	83.6	2000	60	1988	5	79.5	1984	0	495	@	13.2	30.0	.0	.0	.0
Oct	86.6	69.2	77.9	99	1999	3	80.9	1995	41	1989	21	75.3+	1977	0	399	.0	2.1	31.0	.0	.0	.0
Nov	82.8	64.0	73.4	91+	2001	27	78.0	1986	36	1970	25	70.3	1981	2	253	.0	.1	30.0	.0	.0	.0
Dec	78.8	58.5	68.7	92+	2001	19	72.6	1994	25	1989	25	62.7	1989	37	149	.0	.0	31.0	.0	.1	.0
Ann	84.3	66.1	75.2	104	Jun 1998	24	84.6	Aug 2000	25	Dec 1989	25	57.8	Jan 1981	214	3933	@	62.9	365.2	.0	.6	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1962-2001

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

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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	1.94	1.66	3.85	1983	23	11.05	1983	.12	1990	8.0	3.9	1.2	.4	.13	.25	.50	.76	1.06	1.41	1.82	2.35	3.09	4.34	5.57
Feb	1.63	1.63	3.60	1981	19	7.25	1983	.06	1999	6.3	3.2	1.1	.3	.10	.20	.40	.62	.87	1.17	1.52	1.97	2.60	3.66	4.72
Mar	1.87	1.35	4.00	1987	7	6.99	1987	.01	1971	5.4	3.0	1.1	.5	.08	.18	.39	.64	.92	1.27	1.69	2.24	3.02	4.35	5.69
Apr	2.06	1.72	3.92	1979	25	6.82	1995	.07	1971	5.6	3.0	1.5	.5	.19	.34	.61	.90	1.21	1.57	1.99	2.51	3.24	4.44	5.62
May	5.06	4.51	6.15	1975	17	24.72	1975	.57	1973	8.9	5.6	2.5	1.4	.57	.95	1.66	2.36	3.12	3.96	4.95	6.18	7.85	10.62	13.31
Jun	7.25	6.72	6.78	1997	9	21.50	1997	.52	1994	13.5	9.2	4.4	2.4	1.19	1.82	2.87	3.87	4.90	6.01	7.29	8.85	10.94	14.32	17.55
Jul	4.73	4.35	3.35	1970	9	8.84	1995	.84	1976	14.7	8.5	2.8	1.2	1.46	1.91	2.58	3.15	3.71	4.28	4.92	5.66	6.62	8.12	9.51
Aug	7.43	6.39	8.20	1981	18	17.32	1981	2.15	1987	16.5	10.5	4.0	2.0	2.32	3.02	4.07	4.97	5.84	6.74	7.73	8.90	10.40	12.73	14.90
Sep	7.20	6.19	4.90	1973	12	15.71	1981	3.61	1993	17.0	11.5	4.6	1.9	3.02	3.68	4.60	5.35	6.06	6.78	7.55	8.44	9.57	11.28	12.84
Oct	4.26	3.85	6.51	1965	14	12.38	1999	.60	1981	11.5	6.1	2.7	1.4	.81	1.19	1.81	2.39	2.98	3.61	4.33	5.19	6.35	8.19	9.95
Nov	2.46	2.07	4.53	1980	12	10.36	1980	.06	1974	7.9	3.9	1.6	.6	.15	.29	.59	.93	1.31	1.75	2.29	2.97	3.94	5.57	7.20
Dec	1.57	1.31	3.30	1979	7	5.07	1979	.10	1988	7.5	2.7	.8	.4	.19	.32	.54	.76	.99	1.25	1.54	1.92	2.42	3.24	4.05
Ann	47.46	47.30	8.20	Aug 1981	18	24.72	May 1975	.01	Mar 1971	122.8	71.1	28.3	13.0	31.87	34.82	38.64	41.56	44.18	46.72	49.35	52.28	55.85	61.06	65.60

+ 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: 1962-2001

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

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Climate Division: FL 5

NWS Call Sign:

Elevation: 3 Feet

Lat: 25°09N

Lon: 80°55W

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	0	.0	0	0	.0	0	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	.0	N/A	N/A	.0	0	0	.0	0	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

Complete documentation available from:

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Climate Division: FL 5

NWS Call Sign:

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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	2/25	2/13	2/04	1/26	1/15	12/28	0/00	0/00	0/00
32	1/25	1/15	1/04	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	12/27	1/09	1/19	1/30	2/11	0/00	0/00	0/00	0/00
32	1/05	1/15	1/29	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	334	319
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

Complete documentation available from:
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Climate Division: FL 5 NWS Call Sign: Elevation: 3 Feet Lat: 25°09N Lon: 80°55W

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	93	57	22	3	0	0	0	0	0	0	2	37	214
60	40	18	4	0	0	0	0	0	0	0	0	9	71
57	22	8	0	0	0	0	0	0	0	0	0	3	33
55	14	4	0	0	0	0	0	0	0	0	0	1	19
50	3	0	0	0	0	0	0	0	0	0	0	0	3
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	1070	990	1188	1249	1417	1475	1553	1556	1485	1422	1241	1135	15781
55	372	349	475	559	704	785	840	843	795	709	551	423	7405
57	317	298	413	499	642	725	778	781	735	647	491	363	6689
60	243	223	324	409	549	635	685	688	645	554	401	276	5632
65	123	123	187	262	394	485	530	533	495	399	253	149	3933
70	72	53	88	132	240	335	375	378	345	245	121	62	2446

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	829	799	940	1008	1171	1232	1308	1310	1245	1179	1009	897	829	1628	2568	3576	4747	5979	7287	8597	9842	11021	12030	12927
45	675	654	785	858	1016	1082	1153	1155	1095	1024	859	742	675	1329	2114	2972	3988	5070	6223	7378	8473	9497	10356	11098
50	522	509	630	708	861	932	998	1000	945	869	709	589	522	1031	1661	2369	3230	4162	5160	6160	7105	7974	8683	9272
55	371	365	476	558	706	782	843	845	795	714	559	437	371	736	1212	1770	2476	3258	4101	4946	5741	6455	7014	7451
60	232	235	328	408	551	632	688	690	645	559	410	295	232	467	795	1203	1754	2386	3074	3764	4409	4968	5378	5673
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	542	527	639	706	844	894	937	936	898	850	709	602	542	1069	1708	2414	3258	4152	5089	6025	6923	7773	8482	9084

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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.

- 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/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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