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: HIALEAH, FL **COOP ID: 083909**

Climate Division: FL 6 **NWS Call Sign:** **Elevation: 12 Feet** **Lat: 25˚50N** **Lon: 80˚17W**

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	77.6	62.2	69.9	89+	1987	20	76.6	1974	28	1981	13	60.3	1981	49	186	.0	.0	31.0	.0	.3	.0
Feb	78.2	63.6	70.9	92	2001	18	77.0	1990	33	1958	5	64.1	1978	25	190	.0	@	28.2	.0	.0	.0
Mar	81.2	67.6	74.4	93	2001	12	78.8	1997	32	1980	3	68.7	1996	9	299	.0	.4	31.0	.0	@	.0
Apr	84.2	70.0	77.1	96	1965	16	80.2	1991	40+	1971	11	72.5	1996	0	363	.0	2.2	30.0	.0	.0	.0
May	87.8	74.2	81.0	97+	2000	22	84.0	1995	52	1966	15	78.5	1977	0	495	.0	7.8	31.0	.0	.0	.0
Jun	90.1	77.3	83.7	99+	1998	18	89.5	1998	56	1964	6	79.8	1996	0	561	.0	14.3	30.0	.0	.0	.0
Jul	92.2	78.5	85.4	100+	1998	10	87.9	1998	62	1979	22	84.0	1996	0	631	.1	22.8	31.0	.0	.0	.0
Aug	92.2	78.4	85.3	99+	2000	25	87.7	1998	60+	1986	20	84.1	1986	0	630	.0	23.7	31.0	.0	.0	.0
Sep	90.7	77.5	84.1	97+	1998	1	86.3	1988	56	1985	18	82.1	1984	0	573	.0	16.3	30.0	.0	.0	.0
Oct	87.4	73.7	80.6	95+	1998	2	83.2	1995	51+	1989	20	78.1	1988	0	482	.0	5.5	31.0	.0	.0	.0
Nov	82.9	69.6	76.3	92	2000	11	81.0	1986	37	1950	26	73.7	1981	0	339	.0	.3	30.0	.0	.0	.0
Dec	79.0	64.6	71.8	90+	1998	11	76.9	1971	29	1968	16	66.3	1989	22	233	.0	.1	31.0	.0	.2	.0
Ann	85.3	71.4	78.4	100+	Jul 1998	10	89.5	Jun 1998	28	Jan 1981	13	60.3	Jan 1981	105	4982	.1	93.4	365.2	.0	.5	.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

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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	2.34	1.89	2.76	1961	13	6.47	1983	.30	1984
Feb	2.22	1.69	4.43	1998	2	8.41	1983	.00	1974
Mar	3.20	2.27	4.80	1949	21	17.06	1986	.27	1976
Apr	3.90	3.16	6.26	1980	7	17.10	1979	.03	1981
May	6.08	4.71	10.00	1977	5	15.15	1977	.48	1992
Jun	10.24	9.16	8.70	1977	2	31.90	1999	4.07	1980
Jul	7.00	6.75	4.58	1985	17	14.69	1985	3.23	1976
Aug	9.20	9.08	7.30	1981	18	17.75	1994	3.50	1984
Sep	8.88	8.05	5.28	2001	28	17.88	1994	1.61	1986
Oct	6.56	5.21	8.45	1948	6	23.58	1991	1.22	1977
Nov	3.83	2.81	7.10	1992	18	16.96	1992	.62	2000
Dec	2.59	2.37	5.71	1964	6	6.05	1997	.18	1980
Ann	66.04	65.55	10.00	May 1977	5	31.90	Jun 1999	.00	Feb 1974

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.5	4.5	1.4	.5
Feb	6.6	3.8	1.1	.5
Mar	7.0	4.3	1.9	.8
Apr	6.6	4.3	2.1	1.3
May	10.9	7.7	3.6	1.7
Jun	16.2	12.4	6.2	3.3
Jul	16.1	11.6	4.7	2.3
Aug	17.1	12.7	5.8	2.8
Sep	17.9	12.5	4.8	2.6
Oct	13.3	9.1	3.8	1.9
Nov	9.4	5.6	2.1	.9
Dec	7.4	4.3	1.7	.6
Ann	136.0	92.8	39.2	19.2

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	.37	.57	.90	1.23	1.56	1.92	2.34	2.85	3.54	4.65	5.71
Feb	.12	.32	.66	.98	1.33	1.72	2.17	2.73	3.50	4.76	5.99
Mar	.28	.49	.92	1.36	1.85	2.40	3.06	3.89	5.04	6.95	8.83
Apr	.24	.47	.95	1.48	2.08	2.78	3.63	4.72	6.24	8.82	11.39
May	1.47	2.04	2.93	3.72	4.50	5.33	6.26	7.36	8.80	11.08	13.23
Jun	3.22	4.19	5.64	6.87	8.06	9.30	10.66	12.25	14.30	17.49	20.45
Jul	3.29	3.90	4.74	5.41	6.04	6.67	7.35	8.11	9.08	10.54	11.85
Aug	3.79	4.63	5.82	6.79	7.71	8.64	9.64	10.79	12.25	14.48	16.50
Sep	3.00	3.84	5.07	6.11	7.11	8.14	9.27	10.58	12.27	14.88	17.29
Oct	1.21	1.79	2.75	3.64	4.55	5.53	6.65	7.99	9.79	12.67	15.42
Nov	.60	.93	1.49	2.02	2.56	3.16	3.84	4.67	5.79	7.60	9.34
Dec	.29	.49	.85	1.21	1.60	2.03	2.53	3.16	4.01	5.42	6.80
Ann	46.98	50.67	55.39	58.98	62.16	65.24	68.42	71.93	76.19	82.37	87.71

\+ 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:
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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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

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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	2/06	1/23	1/09	0/00	0/00	0/00	0/00	0/00	0/00
32	1/26	1/05	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	1/05	1/22	2/10	0/00	0/00	0/00	0/00	0/00	0/00
32	1/08	2/01	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	>365
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	49	25	9	0	0	0	0	0	0	0	0	22	105
60	24	7	0	0	0	0	0	0	0	0	0	5	36
57	13	2	0	0	0	0	0	0	0	0	0	2	17
55	9	0	0	0	0	0	0	0	0	0	0	0	9
50	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1175	1089	1314	1353	1518	1551	1654	1653	1563	1505	1328	1234	16937
55	471	445	601	663	805	861	941	940	873	792	638	521	8551
57	413	391	539	603	743	801	879	878	813	730	578	461	7829
60	331	312	446	513	650	711	786	785	723	637	488	371	6753
65	186	190	299	363	495	561	631	630	573	482	339	233	4982
70	126	100	170	219	340	411	476	475	423	327	195	124	3386

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	869	839	1010	1063	1225	1267	1358	1358	1278	1206	1045	933	869	1708	2718	3781	5006	6273	7631	8989	10267	11473	12518	13451
45	715	694	855	913	1070	1117	1203	1203	1128	1051	895	779	715	1409	2264	3177	4247	5364	6567	7770	8898	9949	10844	11623
50	561	550	700	763	915	967	1048	1048	978	896	745	626	561	1111	1811	2574	3489	4456	5504	6552	7530	8426	9171	9797
55	411	406	546	613	760	817	893	893	828	741	595	473	411	817	1363	1976	2736	3553	4446	5339	6167	6908	7503	7976
60	272	276	393	463	605	667	738	738	678	586	445	328	272	548	941	1404	2009	2676	3414	4152	4830	5416	5861	6189
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	577	560	698	752	887	911	967	964	925	877	742	633	577	1137	1835	2587	3474	4385	5352	6316	7241	8118	8860	9493

(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