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: CLERMONT 7 S, FL **COOP ID: 081641**

Climate Division: FL 3 **NWS Call Sign:** **Elevation: 110 Feet** **Lat: 28˚27N** **Lon: 81˚45W**

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	70.7	48.0	59.4	86+	2001	19	68.8	1974	18	1985	21	49.7	1981	246	56	.0	.0	30.6	.0	1.7	.0
Feb	73.2	49.4	61.3	89+	1988	3	67.9	1990	17	2000	6	52.5	1978	154	51	.0	.0	28.0	@	1.0	.0
Mar	78.6	54.1	66.4	92	1963	18	71.5	1997	25	1980	3	61.5	1996	74	115	.0	.2	31.0	.0	.1	.0
Apr	83.1	57.4	70.3	97	1968	22	74.2	1999	37+	2001	19	64.6	1987	16	173	.0	2.6	30.0	.0	.0	.0
May	87.9	63.4	75.7	100+	2000	28	79.1	1995	47	1992	8	72.9	1988	0	330	@	11.2	31.0	.0	.0	.0
Jun	90.4	68.9	79.7	102	2000	4	84.0	1998	51	1984	1	77.3	1976	0	439	.3	18.1	30.0	.0	.0	.0
Jul	91.6	70.6	81.1	101+	1980	17	83.0	1998	62	1984	1	79.2	1974	0	499	.2	24.4	31.0	.0	.0	.0
Aug	91.0	71.3	81.2	100	1961	1	82.6	1998	64+	2000	3	79.6	1994	0	502	.0	22.5	31.0	.0	.0	.0
Sep	89.0	70.3	79.7	97+	1962	4	81.3	2000	55	1981	20	78.1	1994	0	439	.0	15.2	30.0	.0	.0	.0
Oct	83.4	64.0	73.7	95	1958	2	77.8	1985	41+	1989	22	69.7	1987	5	275	.0	1.9	31.0	.0	.0	.0
Nov	77.4	56.8	67.1	90	1957	16	74.0	1986	28+	1970	25	61.4	1976	56	119	.0	.0	30.0	.0	.0	.0
Dec	72.0	50.3	61.2	89	2000	11	67.4	1971	19+	1989	24	54.4	1989	173	53	.0	.0	30.7	.0	1.1	.0
Ann	82.4	60.4	71.4	102	Jun 2000	4	84.0	Jun 1998	17	Feb 2000	6	49.7	Jan 1981	724	3051	.5	96.1	364.3	@	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

(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	3.11	2.54	4.90	1986	10	9.41	1986	.33	1981
Feb	2.58	1.94	2.95	1998	16	8.60	1998	.06	1989
Mar	3.81	2.91	5.30	1960	15	12.40	1987	.20	2000
Apr	2.18	2.62	4.32	1953	13	4.87	1982	.00+	1998
May	3.67	3.51	3.13	1956	7	8.99	1979	.87	1997
Jun	7.86	8.67	5.00	1972	19	13.71	1976	.67	1998
Jul	6.78	7.35	4.48	1990	13	11.45	1997	2.31	1996
Aug	6.96	7.41	4.17	1984	25	13.35	1992	2.50	1991
Sep	5.59	5.10	7.29	1950	6	21.14	1979	1.39	1991
Oct	2.40	2.04	5.62	1956	16	8.65	1995	.12	2000
Nov	2.40	1.81	6.90	1988	23	11.20	1987	.00	1978
Dec	2.40	1.83	4.28	1997	27	16.05	1997	.04	1992
Ann	49.74	50.23	7.29	Sep 1950	6	21.14	Sep 1979	.00+	Apr 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.4	4.5	1.8	.9
Feb	6.3	4.5	1.5	.7
Mar	6.6	4.8	2.4	1.3
Apr	4.5	3.3	1.5	.7
May	6.8	5.2	2.5	1.1
Jun	13.0	9.9	5.0	2.3
Jul	14.7	11.3	4.7	1.9
Aug	15.0	10.7	4.8	1.8
Sep	11.1	8.3	3.8	1.4
Oct	6.4	4.1	1.5	.6
Nov	5.3	3.3	1.3	.7
Dec	6.0	3.7	1.4	.6
Ann	103.1	73.6	32.2	14.0

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	.47	.73	1.18	1.61	2.06	2.55	3.11	3.80	4.72	6.23	7.67
Feb	.23	.41	.76	1.12	1.51	1.95	2.48	3.15	4.06	5.58	7.07
Mar	.54	.85	1.40	1.93	2.48	3.09	3.80	4.66	5.82	7.72	9.55
Apr	.00	.28	.69	1.04	1.39	1.77	2.21	2.72	3.43	4.57	5.66
May	.77	1.11	1.65	2.14	2.63	3.16	3.75	4.47	5.41	6.92	8.34
Jun	2.26	3.01	4.13	5.11	6.06	7.05	8.15	9.44	11.12	13.75	16.20
Jul	2.76	3.38	4.26	4.99	5.67	6.36	7.11	7.97	9.06	10.72	12.24
Aug	3.17	3.79	4.64	5.33	5.97	6.61	7.30	8.09	9.09	10.59	11.95
Sep	1.64	2.17	2.97	3.66	4.33	5.03	5.80	6.71	7.89	9.73	11.44
Oct	.26	.44	.77	1.10	1.46	1.87	2.34	2.93	3.73	5.06	6.35
Nov	.05	.19	.49	.82	1.21	1.66	2.21	2.91	3.90	5.59	7.27
Dec	.08	.18	.44	.74	1.11	1.56	2.12	2.85	3.91	5.75	7.61
Ann	35.47	38.24	41.78	44.47	46.86	49.17	51.55	54.18	57.37	62.00	66.00

\+ 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

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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
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	#	1973	10	#	1973	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

@ 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	3/15	3/06	2/28	2/23	2/17	2/12	2/07	1/31	1/20
32	2/28	2/18	2/11	2/05	1/30	1/24	1/17	1/07	0/00
28	2/13	2/01	1/23	1/13	12/31	0/00	0/00	0/00	0/00
24	1/23	1/13	12/30	0/00	0/00	0/00	0/00	0/00	0/00
20	1/04	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	12/04	12/10	12/15	12/21	12/26	12/31	1/07	1/18
32	12/09	12/20	12/29	1/05	1/12	1/19	1/27	2/08	0/00
28	12/23	1/05	1/16	1/26	2/10	0/00	0/00	0/00	0/00
24	1/05	1/16	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	1/28	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	332	320	311	304	296	288	280	268
32	>365	>365	>365	>365	347	334	324	314	302
28	>365	>365	>365	>365	>365	>365	>365	333	318
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	246	154	74	16	0	0	0	0	0	5	56	173	724
60	158	79	23	2	0	0	0	0	0	0	16	89	367
57	113	46	10	0	0	0	0	0	0	0	6	52	227
55	86	30	5	0	0	0	0	0	0	0	3	34	158
50	39	9	0	0	0	0	0	0	0	0	0	11	59
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	848	821	1065	1147	1353	1429	1522	1525	1429	1293	1053	904	14389
55	221	207	357	457	640	739	809	812	739	580	365	225	6151
57	186	167	300	397	578	679	747	750	679	518	308	180	5489
60	138	116	220	309	485	589	654	657	589	426	228	125	4536
65	56	51	115	173	330	439	499	502	439	275	119	53	3051
70	31	16	45	72	181	289	344	347	289	142	46	17	1819

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	624	644	845	939	1136	1223	1303	1298	1212	1065	837	681	624	1268	2113	3052	4188	5411	6714	8012	9224	10289	11126	11807
45	478	500	691	789	981	1073	1148	1143	1062	910	687	531	478	978	1669	2458	3439	4512	5660	6803	7865	8775	9462	9993
50	333	359	536	639	826	923	993	988	912	755	537	385	333	692	1228	1867	2693	3616	4609	5597	6509	7264	7801	8186
55	209	235	387	489	671	773	838	833	762	600	391	253	209	444	831	1320	1991	2764	3602	4435	5197	5797	6188	6441
60	113	129	244	341	516	623	683	678	612	446	254	144	113	242	486	827	1343	1966	2649	3327	3939	4385	4639	4783
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	386	404	554	630	785	849	903	905	860	748	551	426	386	790	1344	1974	2759	3608	4511	5416	6276	7024	7575	8001

(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