



## Climate Summary for Florida December 2009

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Online at: [http://coaps.fsu.edu/climate\\_center/summaries/flmonthly2009\\_12.shtml](http://coaps.fsu.edu/climate_center/summaries/flmonthly2009_12.shtml)

**Most average temperatures near normal for December.** Monthly average temperatures in December were near normal across most of the state (Table 1). Exceptions were Pensacola (2.4°F below normal) and Miami (3.1°F above normal). Numerous daily maximum temperature records were observed (Table 2). Among these, all-time highest temperatures for December were recorded at Miami (89°F on the 10<sup>th</sup>), Vero Beach (87°F on the 2<sup>nd</sup>) and West Palm Beach (90°F on the 9<sup>th</sup>). The all-time warmest temperature for December at Miami broke a record established in 1896.

Table 1. December average temperatures and departures from normal (°F) for selected cities.

Station	Average Temperature	Departure from Normal
Pensacola	51.7	-2.4
Tallahassee	53.7	0.0
Jacksonville	56.3	1.3
Orlando	63.8	0.8
Tampa	63.2	-0.1
Miami	73.0	3.1
Key West	73.4	1.4

Table 2. Maximum temperature (°F) records tied or set during December (compiled from NWS).

Date	Station	Temperature	Previous record
2	Melbourne	85	84 in 1981
2	Vero Beach	87 **	85 in 2006 *
9	Daytona Beach	85 t	85 in 1978
9	Lakeland	85 t	85 in 1986 *
9	Pensacola	79	78 in 1986
9	Vero Beach	87	84 in 1997
9	W. Palm Beach	90 **	87 in 1948
10	Ft. Lauderdale	87	86 in 1997
10	Key West	84 t	84 in 1993
10	Miami	89 **	86 in 1896
10	Vero Beach	85 t	85 in 1978



10	W. Palm Beach	87	86 in 1997
13	Vero Beach	86 t	86 in 1961 *
14	Lakeland	84 t	84 in 2001
15	Jacksonville	84	83 in 1972
15	Miami	85	83 in 2007

t: tied \* last of multiple occurrences \*\* all-time highest for December

**December rainfall totals well above normal at northern, central, and east-coastal areas.** Rainfall totals for December were more than three inches above normal in northern and central parts of the state, as well as several east-coastal areas (Table 3). Pensacola and Tallahassee were more than nine and six inches above normal, respectively. Numerous daily precipitation records were tied or set during December (Table 4). Several of these records had existed for many years. Of particular note, 5.74" on the 2<sup>nd</sup> at Tallahassee broke a daily record established in 1896, and 0.42" at Key West on the 5<sup>th</sup> broke a daily record established in 1886.

Table 3. December precipitation totals and departures from normal (inches) for selected cities.

Station	Total rainfall	Departure from Normal
Pensacola	13.75	9.78
Tallahassee	10.92	6.82
Jacksonville	5.88	3.24
Orlando	5.39	3.08
Tampa	2.32	0.02
Miami	3.01	0.83
Key West	4.49	2.35

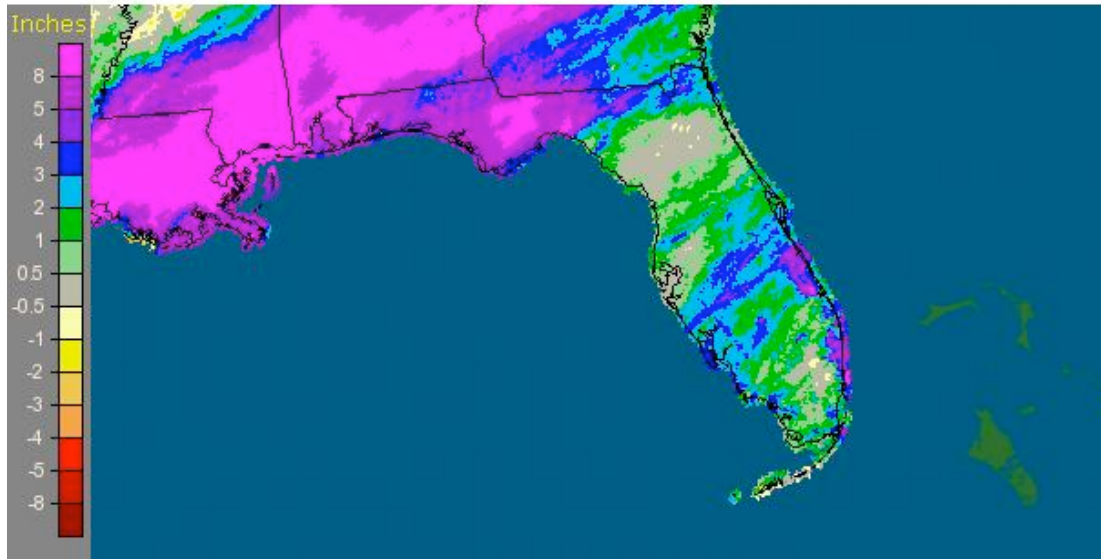
Table 4. Daily precipitation (inches) records tied or set during December (compiled from NWS).

Date	Station	Amount	Previous record
2	Apalachicola	3.72	0.35 in 1985
2	Tallahassee	5.34	1.93 in 1896
4	Daytona Beach	1.61	1.17 in 1953
4	Fort Myers	2.17	1.22 in 1994
5	Fort Myers	0.82	0.50 in 1937
5	Key West	0.42	0.41 in 1886
15	W. Palm Beach	3.10	1.33 in 1958
18	Ft. Lauderdale	2.45	1.98 in 1917
18	Key West	3.28	1.90 in 1928
18	Melbourne	1.68 t	1.68 in 1999
18	Naples	1.70	0.62 in 1954
18	Vero Beach	1.87	0.70 in 1999
18	W. Palm Beach	1.90	1.07 in 1923

t: tied

A graphical depiction of the monthly rainfall departure from normal (inches) for December is given in the figure below (courtesy of NOAA, NWS). Amounts of more than eight inches above normal are evident in the northwest.

**Florida: December, 2009 Monthly Departure from Normal Precipitation**  
Valid at 1/1/2010 1200 UTC- Created 1/1/10 23:46 UTC



Also, a graphical depiction of annual rainfall departures from normal for 2009 is given in the Appendix.

**El Niño continues to impact Florida.** Sea surface temperatures in the equatorial Pacific Ocean remained above the 0.5°C threshold designating El Niño conditions during December. Florida weather fit well the conceptual model for winter El Niño climate patterns. Heaviest rainfall and several severe weather events occurred near surface low pressure systems associated with an active southern jet stream. Increased cloudiness often kept nighttime temperatures high, and eight high-minimum temperature records were set. In particular, the minimum temperature at Daytona Beach on the 9<sup>th</sup> (72°F) was the all-time high-minimum for December.

**Hazardous weather.** In the north, a tornado touched down near Crestview and wind damage occurred near Panama City, Jacobs and McAlpin on the 2<sup>nd</sup>. On the 9<sup>th</sup>, wind damage occurred near Chattahoochee and a tornado damaged houses near Tallahassee. Later in the month, tornadoes were observed near Homestead, Key West and Ona, as well as wind damage near Holoran, on the 18<sup>th</sup>. As a cold front pushed across north Florida, wind damage was reported near Ft. Walton Beach on the 24<sup>th</sup> and near Live Oak on the 25<sup>th</sup>.

**Agricultural and other impacts.** Persistent wet conditions from early in the month have hindered fieldwork in the north. Fall and winter plantings were also slowed by wet ground. Sugar cane harvest was active despite some delays due to locally heavy rain. A variety of winter vegetables were harvested, although wet conditions caused some disease and quality problems.

## APPENDIX

A graphical depiction of the annual rainfall departure from normal (inches) for 2009 is given in the figure below (courtesy of NOAA, NWS).

**Florida: Full Year 2009 Departure from Normal Precipitation**  
Valid at 1/1/2010 1200 UTC- Created 1/1/10 23:53 UTC

