

Climate Summary for Florida – September 2019

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Online at: <http://climatecenter.fsu.edu/products-services/summaries>

Mean temperatures in September were generally above normal, especially on the panhandle (Table 1 and Appendix 1). Several daily temperature records were tied or broken during the month (Appendix 2).

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

Station	Mean Temperature	Departure from Normal
Pensacola	84.6	+6.2
Tallahassee	83.4	+5.2
Jacksonville	81.3	+3.1
Orlando	82.1	+1.0
Tampa	84.0	+2.3
Miami	85.2	+2.3
Key West	84.5	+1.2

Rainfall totals in September were below normal statewide but especially so on the panhandle and western coast (Figure 1). No rainfall records were broken at major stations (Table 3).

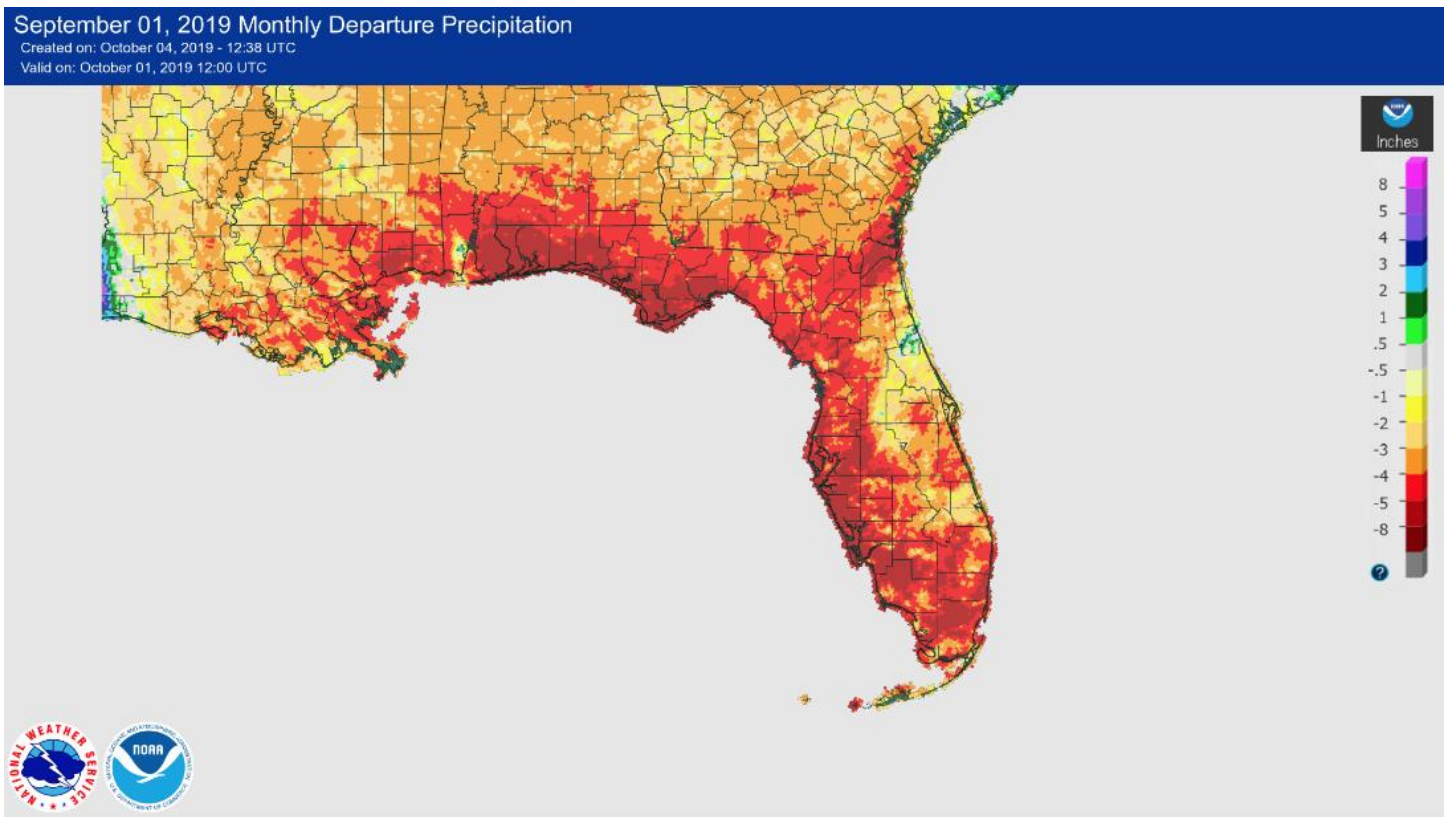
Table 2. September precipitation totals and departures from normal (inches) for selected cities.

Station	Total Rainfall	Departure from Normal
Pensacola	T	-5.98
Tallahassee	T	-4.69
Jacksonville	2.35	-5.84
Orlando	1.93	-4.13
Tampa	1.46	-4.84
Miami	3.25	-6.61
Key West	4.10	-2.61

Table 3. Select daily rainfall records (inches) broken during September. (Compiled from NOAA, NWS)

(none)

Figure 1. A graphical depiction of the monthly rainfall departure from normal (inches) for September is given in the figure below (courtesy of NOAA, NWS).



ENSO is now neutral.

During September, the Climate Prediction Center issued a final El Niño Advisory, as ENSO is now in a neutral state and has slightly better than even odds (55-60% chance) of remaining so through the 2019-2020 boreal winter. The next most likely scenario is weak El Niño conditions.

Hazardous Weather Events in September.

According to the Local Storm Reports (LSRs) issued by the local National Weather Service (NWS) offices serving Florida, the following instances of hazardous weather were reported across the state in September 2019.

Table 4. Breakdown of storm reports submitted in Florida during the month of September. (Compiled from Iowa State University/Iowa Environmental Mesonet.)

Report Type	Number of Reports
Coastal Flood	29
Dense Fog	0
Flash Flood	0

Flood	0
Hail	0
Heavy Rain	1
Marine Hail	0
Marine Thunderstorm Wind	82
Non-Thunderstorm Wind Damage	0
Non-Thunderstorm Wind Gust	26
Tornado	0
Thunderstorm Wind Damage	9
Thunderstorm Wind Gust	38
Waterspout	6

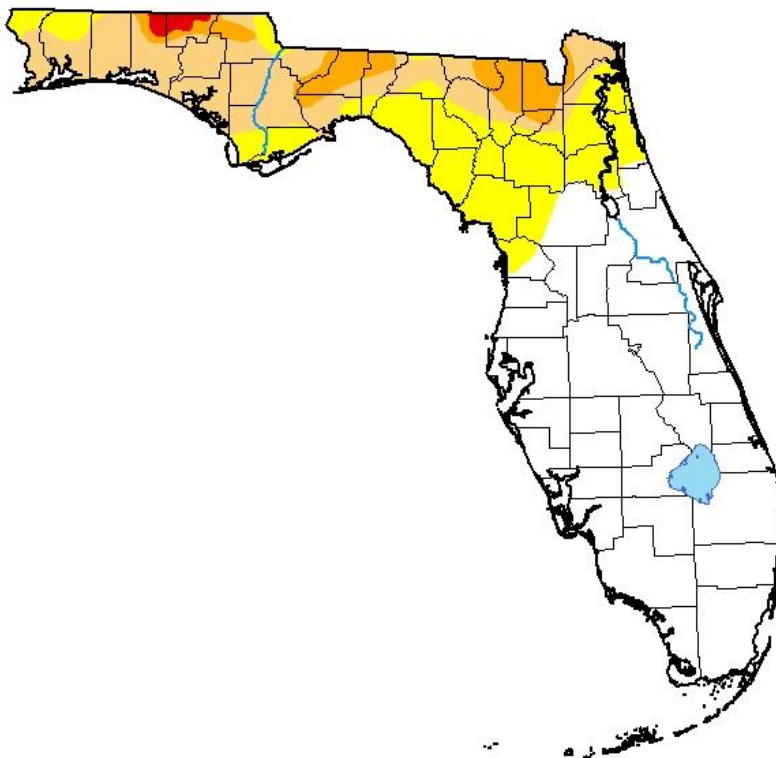
Drought-Related Impacts.

At the very beginning of October, according to the U.S. Drought Monitor, much of north Florida had at least abnormally dry conditions with moderate to severe and even extreme drought in areas closest to the borders with Georgia and Alabama.

As of 3 October, the Lake Okechobee water level was at 13.49 ft. above sea level, which is a near average for this time of the year.

**U.S. Drought Monitor
Florida**

October 1, 2019
(Released Thursday, Oct. 3, 2019)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	56.91	43.09	23.58	6.18	0.61	0.00
Last Week 09-24-2019	57.19	42.81	21.43	0.61	0.00	0.00
3 Months Ago 07-02-2019	84.45	15.55	7.16	0.22	0.00	0.00
Start of Calendar Year 01-01-2019	68.86	31.14	22.51	0.00	0.00	0.00
Start of Water Year 10-01-2019	56.91	43.09	23.58	6.18	0.61	0.00
One Year Ago 10-02-2018	93.45	6.55	0.00	0.00	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

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droughtmonitor.unl.edu

Agriculture-Related Impacts.

At the end of September 2019, soil moisture was adequate in 50% of the state, short in 27%, very short in 21%, and at a surplus in 2%. For more information, consult the weekly [Crop Progress and Condition](#) reports published by the USDA’s National Agricultural Statistics Service.

Appendix 1
Additional August Departures from Normal Data for Florida Locations

Station	Total rainfall (in.)	Departure from Normal (in.)	Average Temperature (°F)	Departure from Normal (°F)
Gainesville	0.93	-3.49	80.6	+2.4
Melbourne	2.09	-5.55	83.5	+3.0
Fort Lauderdale	1.33	-7.26	83.7	+0.5
Fort Myers	2.86	-5.45	83.6	+1.2

Appendix 2
Select daily maximum and minimum temperature records (°F) tied or broken during August.
(Compiled from NOAA, NWS)

Date	Station	Type	Value	Broken/Tied	Last
3	Pensacola	Max.	96	Tied	96 in 1997
4	Pensacola	Max.	96	Tied	98 in 1990
7	Pensacola	Max.	96	Broken	95 in 1990
8	Pensacola	Max.	97	Tied	97 in 1980
17	Pensacola	Max.	99	Broken	97 in 1991
18	Pensacola	Max.	102	Broken	96 in 2005
25	Pensacola	Max.	96	Broken	94 in 2016
26	Pensacola	Max.	96	Broken	94 in 1984
27	Pensacola	Max.	96	Broken	94 in 2017
7	Tallahassee	Max.	99	Broken	98 in 1990
8	Tallahassee	Max.	98	Tied	98 in 1990
17	Tallahassee	Max.	100	Broken	99 in 1933
18	Tallahassee	Max.	101	Broken	98 in 2005
24	Tallahassee	Max.	96	Tied	96 in 1933
25	Tallahassee	Max.	98	Broken	96 in 1931
27	Tallahassee	Max.	96	Tied	96 in 1972
30	Tallahassee	Max.	97	Broken	96 in 1934
7	Jacksonville	Max.	97	Broken	96 in 1951
17	Jacksonville	Max.	96	Tied	96 in 1896
24	Jacksonville	Max.	94	Tied	94 in 1925
25	Jacksonville	Max.	96	Broken	94 in 1961
26	Jacksonville	Max.	97	Broken	96 in 1961
2	Orlando	High Min.	77	Tied	77 in 2015
5	Orlando	High Min.	80	Broken	77 in 2018
6	Orlando	High Min.	78	Broken	77 in 1988
4	Tampa	High Min.	80	Tied	80 in 2018
5	Tampa	High Min.	84	Broken	80 in 1979
6	Tampa	High Min.	80	Tied	80 in 1996
10	Tampa	Max.	96	Broken	95 in 2016
12	Tampa	Max.	95	Tied	95 in 2018
5	Miami	Max.	93	Tied	93 in 2017

6	Miami	Max.	96	Broken	94 in 2011
8	Miami	Max.	94	Tied	94 in 2017
9	Miami	High Min.	83	Tied	83 in 1983
12	Miami	High Min.	83	Broken	82 in 2008
16	Miami	Max.	94	Broken	93 in 2007
29	Miami	High Min.	81	Tied	81 in 1915
6	Key West	High Min.	83	Tied	82 in 2017
7	Key West	High Min.	83	Tied	83 in 2017
16	Key West	High Min.	83	Tied	83 in 2018
17	Key West	Max.	92	Tied	92 in 2018
28	Key West	High Min.	83	Tied	83 in 2018