

Climate Summary for Florida – August 2019

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

Mean temperatures in August were generally above normal with positive anomalies smallest at locations on the Atlantic coast that saw the most rainfall and largest on the western panhandle (Table 1 and Appendix 1). Several daily temperature records were tied or broken during the month (Appendix 2).

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

Station	Mean Temperature	Departure from Normal
Pensacola	83.8	+2.0
Tallahassee	83.6	+1.8
Jacksonville	83.1	+1.3
Orlando	83.2	+0.3
Tampa	84.6	+1.4
Miami	84.6	+0.4
Key West	86.0	+1.5

Rainfall totals in August were above normal over much of the peninsula, with the exception of the northeast and southwest parts. The panhandle had above-normal rainfall in many locations, especially closer to the coast, with many areas farther inland tallying below-normal totals (Figure 1). Three daily rainfall records were broken at major stations (Table 3).

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

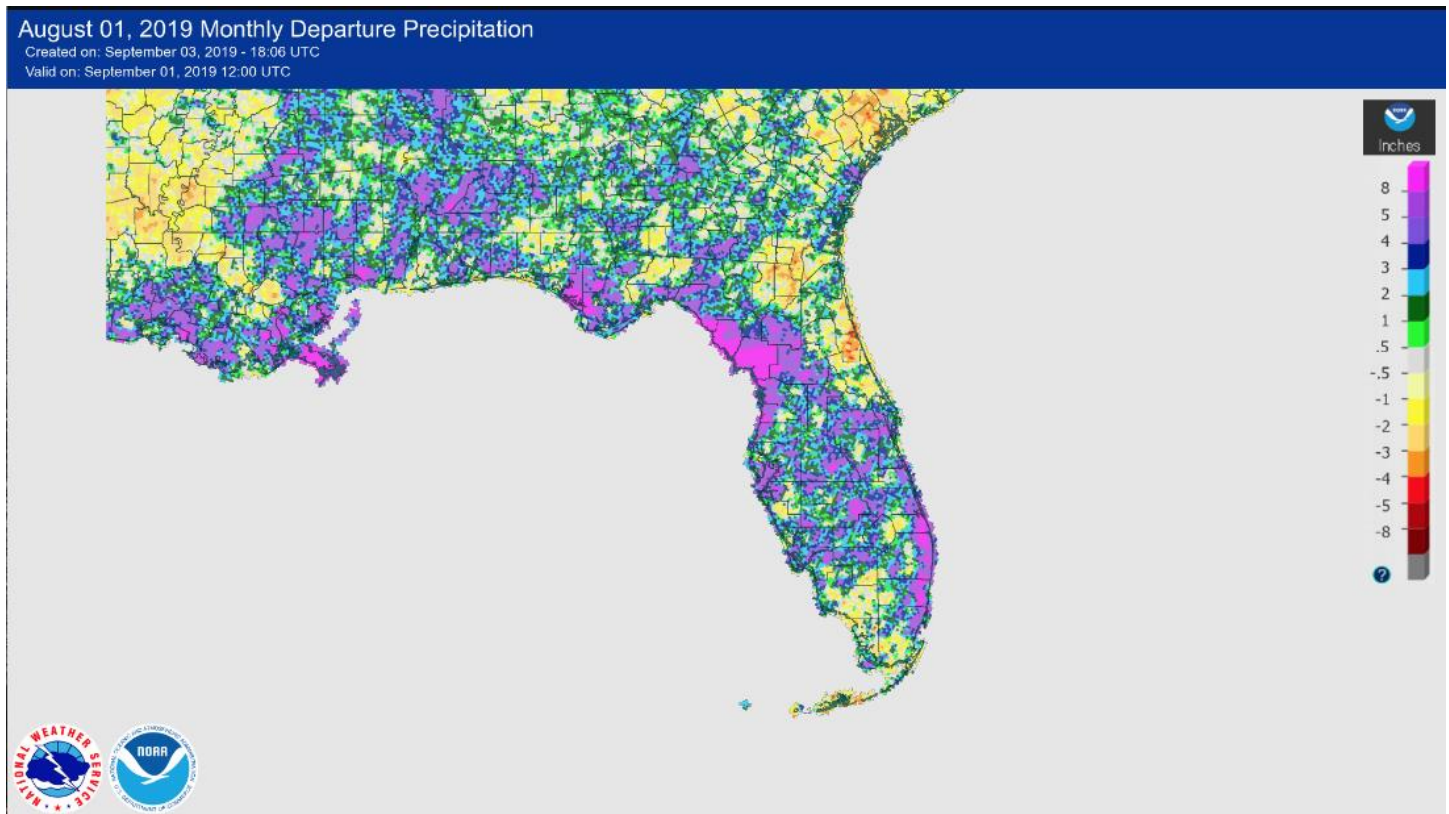
Station	Total Rainfall	Departure from Normal
Pensacola	12.34	+5.58
Tallahassee	4.41	-2.94
Jacksonville	9.87	+3.07
Orlando	7.28	+0.15
Tampa	10.42	+2.65
Miami	15.74	+6.86
Key West	4.35	-1.03

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

Date	Location	Record	Last
9	Pensacola	3.55	2.59 in 1909
14	Tampa	2.59	2.11 in 2013
8	Miami	3.10	2.08 in 1950



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



ENSO is now neutral.

During August, 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 of remaining so through the 2019-2020 boreal winter. The next most likely scenario is weak El Niño conditions.

Hazardous Weather Events in August.

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 August 2019.

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

Report Type	Number of Reports
Coastal Flood	10
Dense Fog	0
Flash Flood	15
Flood	34

Hail	1
Heavy Rain	59
Marine Hail	0
Marine Thunderstorm Wind	34
Non-Thunderstorm Wind Damage	0
Non-Thunderstorm Wind Gust	0
Tornado	1
Thunderstorm Wind Damage	14
Thunderstorm Wind Gust	78
Waterspout	21

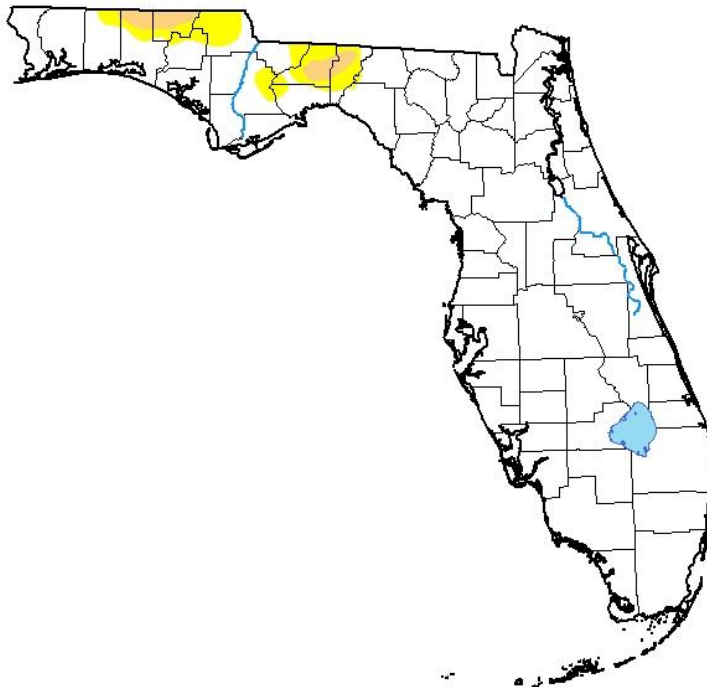
Drought-Related Impacts.

Near the end of August 2019, according to the U.S. Drought Monitor, moderate drought, surrounded by areas of abnormally dry conditions, was present in sections of Walton, Holmes, Leon, and Jefferson counties because of deficits in rainfall over the last 30-day and 90-day periods.

As of 2 September, the Lake Okeechobee water level was at 13.81 ft. above sea level, which is a bit above average for this time of the year.

**U.S. Drought Monitor
Florida**

August 27, 2019
(Released Thursday, Aug. 29, 2019)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	94.07	5.93	1.64	0.00	0.00	0.00
Last Week <i>08-20-2019</i>	94.07	5.93	1.64	0.00	0.00	0.00
3 Months Ago <i>05-28-2019</i>	60.57	39.43	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-01-2019</i>	68.86	31.14	22.51	0.00	0.00	0.00
Start of Water Year <i>09-25-2018</i>	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago <i>08-28-2018</i>	99.74	0.26	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 August 2019, soil moisture was adequate in 60% of the state, short in 11%, very short in 1%, and at a surplus in 28%. 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	10.06	+3.67	81.3	+0.4
Melbourne	8.18	+0.50	84.0	+2.1
Fort Lauderdale	11.98	+4.54	83.5	-1.1
Fort Myers	13.32	+1.44	83.4	+0.1

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
4	Pensacola	Max.	97	Tied	97 in 1992
10	Jacksonville	Max.	99	Tied	99 in 1987
11	Jacksonville	Max.	98	Tied	98 in 2011
14	Jacksonville	Max.	97	Tied	97 in 1938
17	Jacksonville	Low Max.	79	Broken	82 in 1922
11	Orlando	High Min.	78	Broken	77 in 2017
14	Orlando	High Min.	77	Tied	77 in 2016
10	Tampa	High Min.	83	Broken	81 in 2007
11	Tampa	High Min.	83	Broken	81 in 1991
24	Tampa	Max.	95	Tied	95 in 2014
25	Tampa	Max.	96	Broken	95 in 1975
28	Miami	Max.	96	Tied	96 in 1954
6	Key West	High Min.	84	Tied	84 in 2016
13	Key West	High Min.	85	Tied	85 in 2014
18	Key West	High Min.	85	Tied	85 in 2014
26	Key West	High Min	85	Tied	85 in 2018