

Climate Summary for Florida – June 2019

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

Mean temperatures in June were well above normal, and most stations had a monthly mean temperature value that ranked in the top 10 values in the period of record. (Table 1 and Appendix 1). Several daily temperature records were tied or broken during the month (Appendix 2).

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

| Station | Mean Temperature | Departure from Normal |
|--------------|------------------|-----------------------|
| Pensacola | 83.3 | +2.8 |
| Tallahassee | 82.0 | +1.8 |
| Jacksonville | 82.4 | +2.5 |
| Orlando | 83.2 | +1.9 |
| Tampa | 83.8 | +1.6 |
| Miami | 84.8 | +2.0 |
| Key West | 84.7 | +1.4 |

Rainfall totals in June were well above normal on the coastal panhandle, the eastern Big Bend, over a large section of the central part of the peninsula, and in scattered areas of the southern part of the peninsula, and, elsewhere, they were generally a bit below normal. Values for selected stations are shown below (Figure 1). No daily rainfall records were broken at (Table 3).

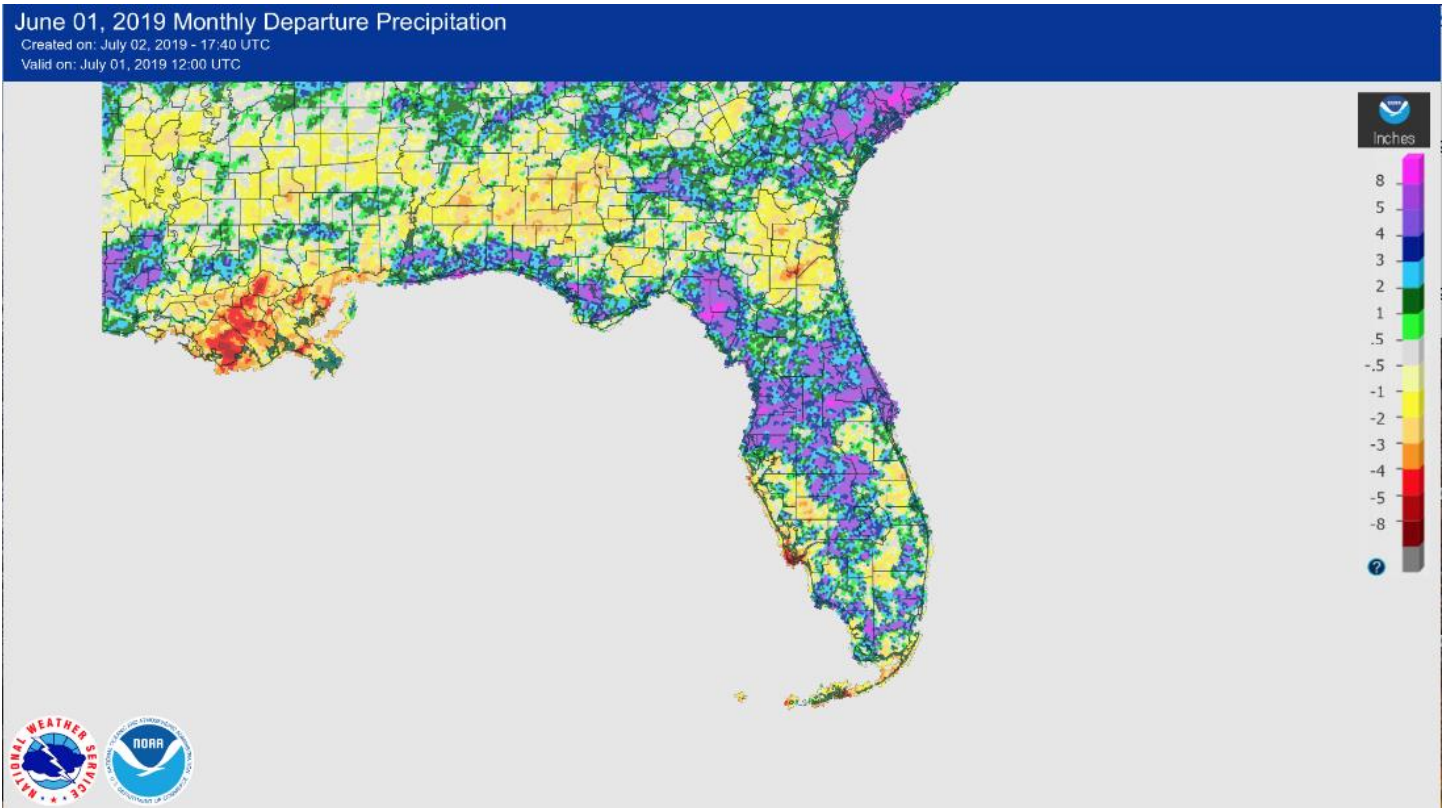
Table 2. June precipitation totals and departures from normal (inches) for selected cities.

| Station | Total Rainfall | Departure from Normal |
|--------------|----------------|-----------------------|
| Pensacola | 7.64 | +1.04 |
| Tallahassee | 5.36 | -2.37 |
| Jacksonville | 4.41 | -2.04 |
| Orlando | 8.97 | +1.39 |
| Tampa | 9.43 | +2.75 |
| Miami | 12.43 | +2.76 |
| Key West | 0.88 | -3.23 |

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

(none)

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



El Niño continues, but positive SST anomalies have weakened.

Based on current data and forecast models, forecasters with the Climate Prediction Center (CPC) continue with an El Nino Advisory. Above-average sea-surface temperatures (SSTs) continue to be present in the equatorial Pacific Ocean, but these positive anomalies have weakened in the last several weeks. The El Nino event is expected to continue through the balance of the boreal summer (67% chance) and possibly continue into the boreal autumn and winter (50-55% chance).

Hazardous Weather Events in June.

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 June 2019.

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

| <u>Report Type</u> | <u>Number of Reports</u> |
|--------------------|--------------------------|
| Coastal Flood | 0 |

| | |
|------------------------------|-----|
| Dense Fog | 0 |
| Flash Flood | 0 |
| Flood | 4 |
| Hail | 19 |
| Heavy Rain | 17 |
| Marine Hail | 0 |
| Marine Thunderstorm Wind | 61 |
| Non-Thunderstorm Wind Damage | 0 |
| Non-Thunderstorm Wind Gust | 11 |
| Tornado | 0 |
| Thunderstorm Wind Damage | 68 |
| Thunderstorm Wind Gust | 194 |
| Waterspout | 28 |

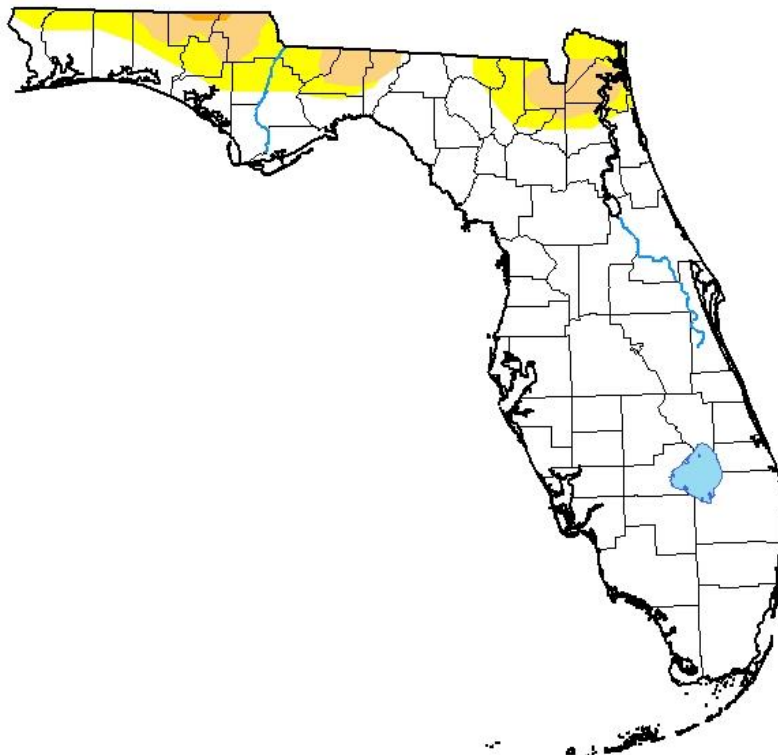
Drought-Related Impacts.

Near the end of June 2019, according to the U.S. Drought Monitor, abnormally dry conditions were found on inland portions of the panhandle and in the far northeast part of the state. Moderate drought conditions were noted portions of Jackson, Holmes, Calhoun, and Walton counties; around Tallahassee and in portions of Gadsden and Jefferson counties; and in a zone including Jacksonville.

As of 3 July, the Lake Okeechobee water level was at 11.32 ft. above sea level, which is a bit below average for this time of the year.

**U.S. Drought Monitor
Florida**

June 25, 2019
(Released Thursday, Jun. 27, 2019)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--|--------|-------|-------|-------|-------|------|
| Current | 83.20 | 16.80 | 6.67 | 0.22 | 0.00 | 0.00 |
| Last Week <i>06-18-2019</i> | 80.86 | 19.14 | 8.62 | 0.00 | 0.00 | 0.00 |
| 3 Months Ago <i>03-26-2019</i> | 78.31 | 21.69 | 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>06-26-2018</i> | 100.00 | 0.00 | 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 June 2019, soil moisture was adequate in 70% of the state, short in 21%, very short in 7%, and at a surplus in 2%. Seasonal agricultural activities were generally proceeding as usual. For more information, consult the weekly [Crop Progress and Condition](#) Report published by the USDA's National Agricultural Statistics Service.

Appendix 1
Additional June Departures from Normal Data for Florida Locations

| Station | Total rainfall (in.) | Departure from Normal (in.) | Average Temperature (°F) | Departure from Normal (°F) |
|-----------------|----------------------|-----------------------------|--------------------------|----------------------------|
| Gainesville | 9.61 | +2.49 | 83.1 | +3.4 |
| Melbourne | 6.52 | -0.19 | 83.0 | +2.6 |
| Fort Lauderdale | 11.18 | +1.02 | 83.9 | +0.8 |
| Fort Myers | 6.12 | -3.97 | 83.0 | +0.5 |

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

| Date | Station | Type | Value | Broken/Tied | Last |
|------|----------|-----------|-------|-------------|------------|
| 28 | Orlando | High Min. | 76 | Tied | 76 in 2010 |
| 1 | Tampa | High Min. | 79 | Tied | 79 in 2004 |
| 4 | Tampa | Max. | 95 | Tied | 95 in 2016 |
| 25 | Tampa | Max. | 98 | Tied | 98 in 1950 |
| 1 | Miami | Max. | 93 | Tied | 93 in 2004 |
| 3 | Miami | Max. | 96 | Tied | 96 in 1985 |
| 3 | Miami | High Min. | 81 | Broken | 80 in 1981 |
| 4 | Miami | High Min. | 80 | Tied | 80 in 1928 |
| 23 | Miami | Max. | 95 | Broken | 94 in 1996 |
| 24 | Miami | Max. | 98* | Tied | 98 in 1944 |
| 25 | Miami | Max. | 97 | Tied | 97 in 1987 |
| 26 | Miami | Max. | 96 | Tied | 95 in 1987 |
| 3 | Key West | High Min. | 82 | Tied | 82 in 2017 |
| 8 | Key West | High Min. | 83 | Broken | 82 in 2005 |
| 12 | Key West | High Min. | 83 | Tied | 83 in 1981 |
| 20 | Key West | High Min | 83 | Tied | 83 in 2011 |
| 22 | Key West | High Min | 83 | Tied | 83 in 2011 |

*Ties the record-high temperature for June at Miami.