

Water Conditions Summary

Palm Beach County Water Resources

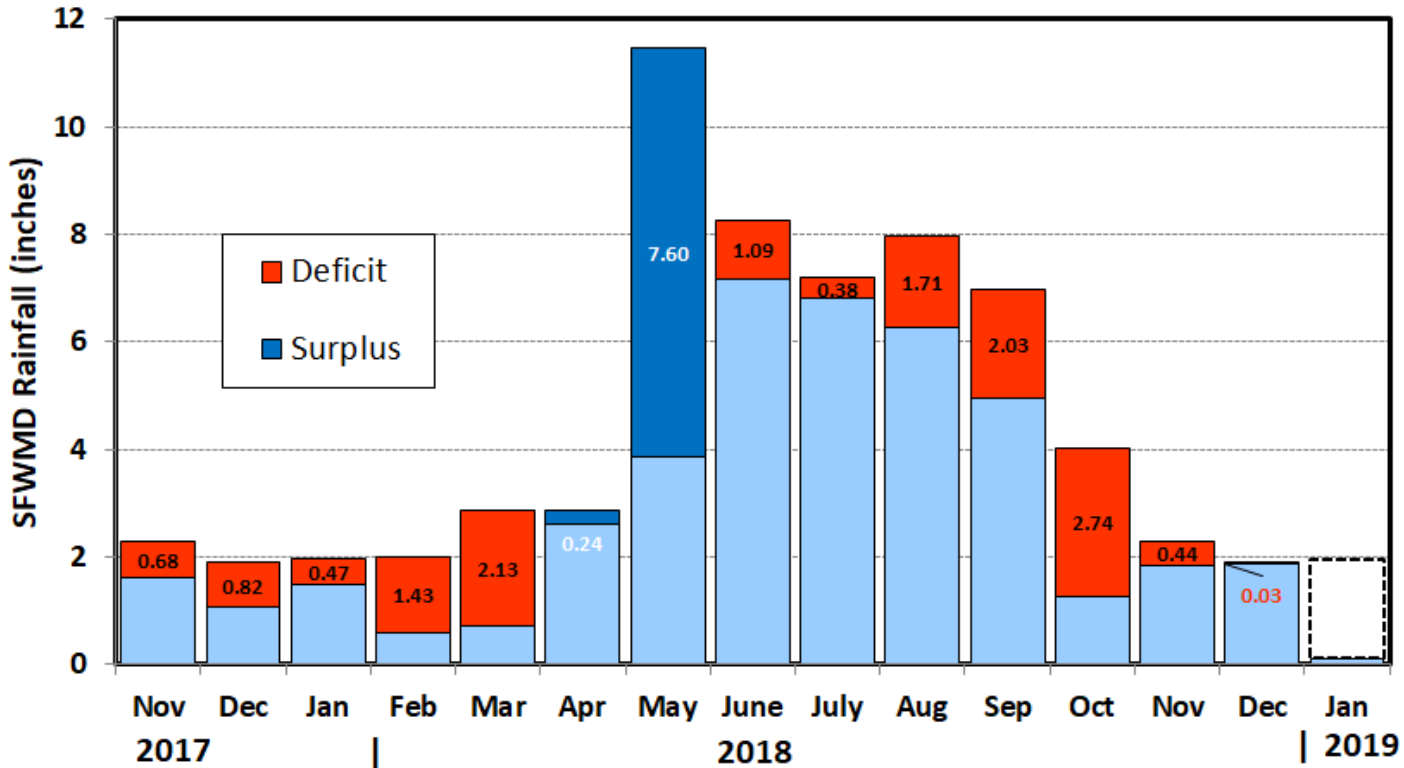
Task Force Meeting

January 24, 2019

Mark Elsner, P.E.

Water Supply Bureau Chief

SFWMD Rainfall Distribution Comparison (Nov 2017 - January 2019)



2017-2018 DRY SEASON

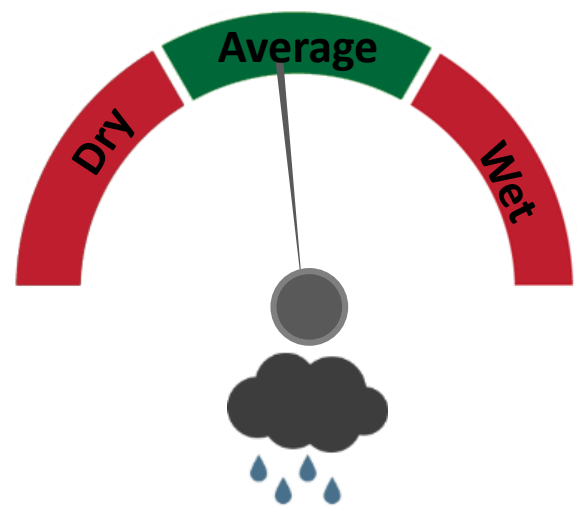
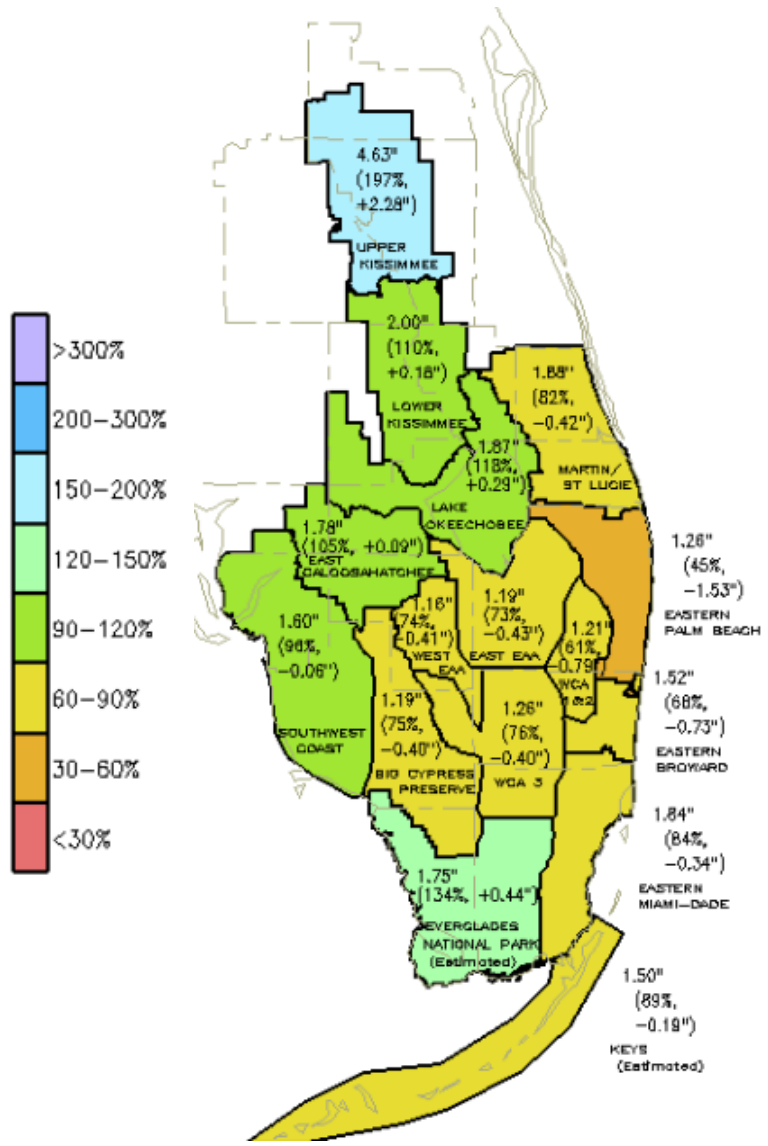
- Below average
- April was first month above average after 5 dry months
- Wettest May in the POR

2018 WET SEASON

- All months in the wet season had below average rainfall
- Wet season was 77% below average

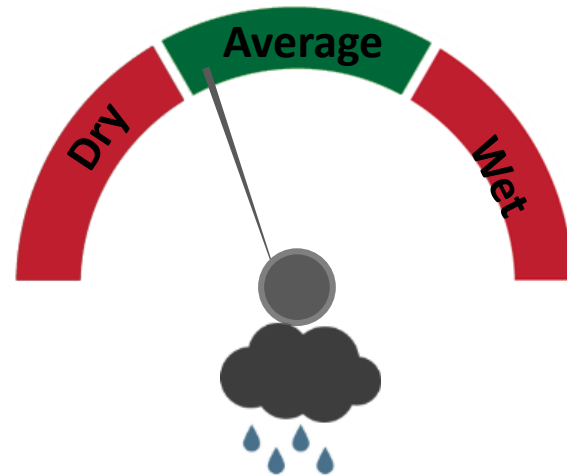
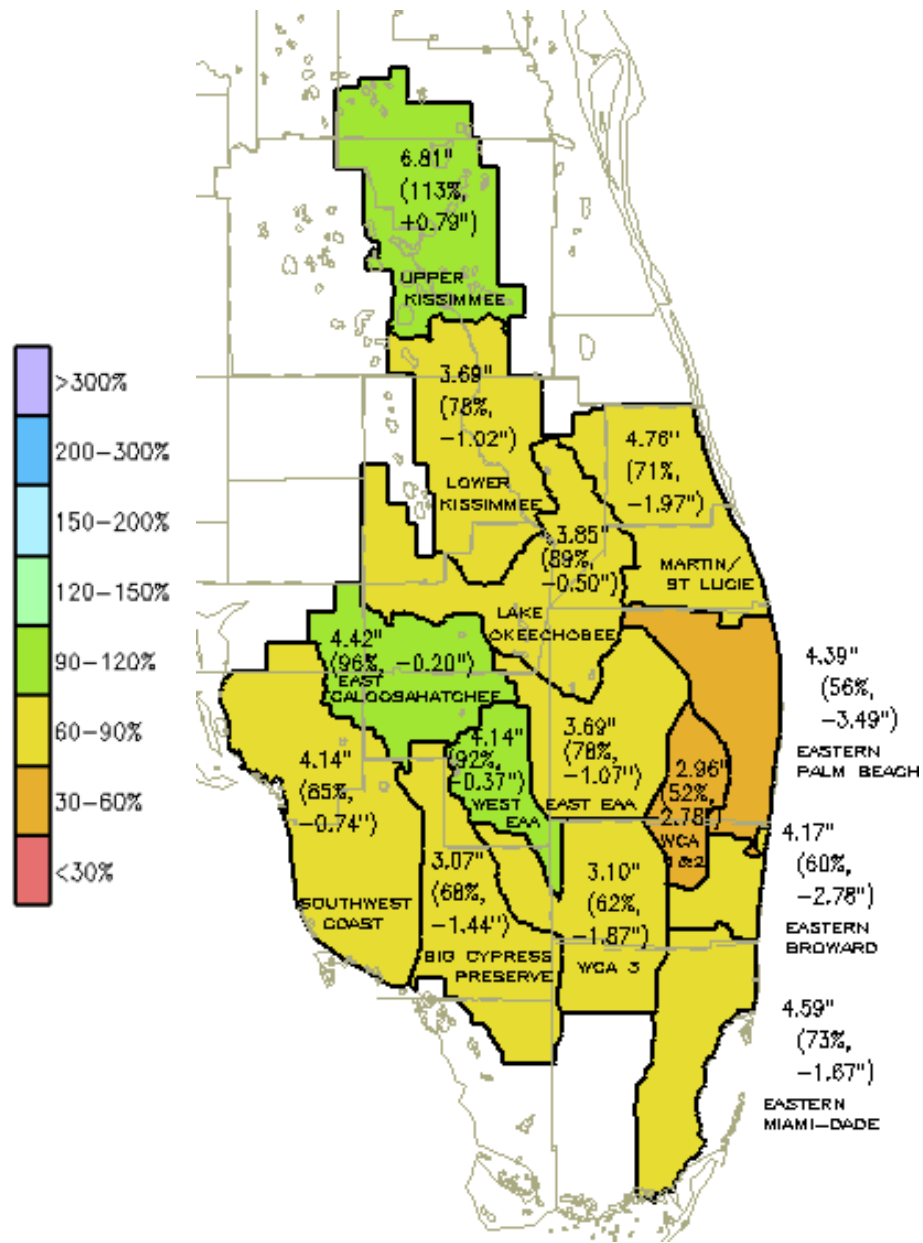
2018-2019 DRY SEASON

- November 2018 was below Normal
- December 2018 was near-normal
- Below normal to date



SFWMD
DECEMBER 2018
DISTRICTWIDE: 1.86"

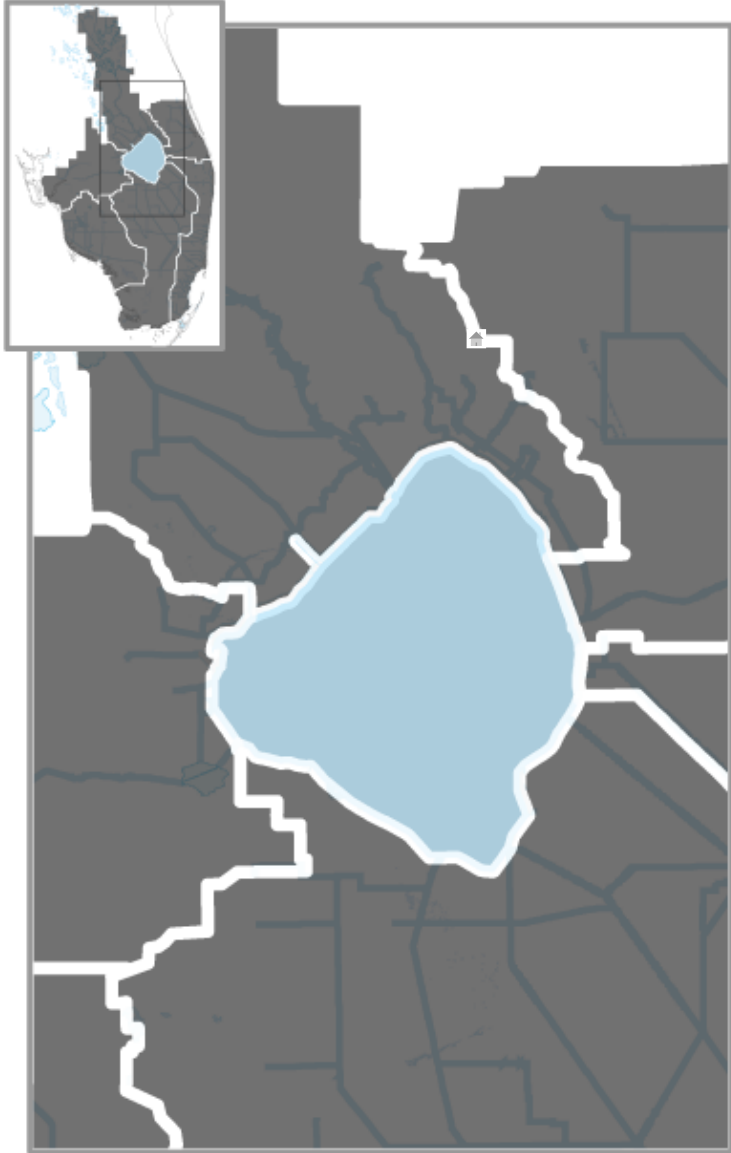
- Below average: 98% or -0.03"
- Very high variability across the District
- Near average to above average rainfall conditions on the lake, north of the lake and west coast
- Upper Kissimmee had +2.28" surplus
- Largest deficit Eastern Palm Beach -1.53"
- Rainfall Dec 19-21 was in excess of 1.1" with main focus on Upper Kissimmee



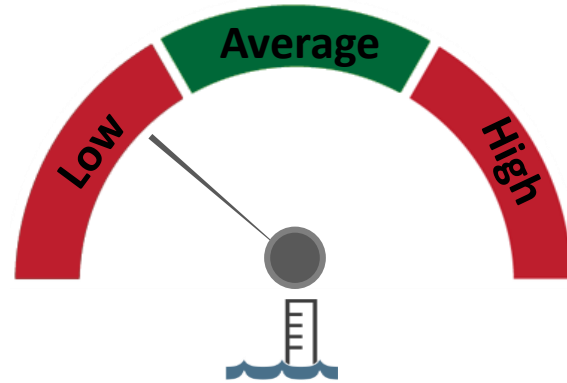
SFWMD

Dry Season Rainfall
02 Nov 2018 to 23 Jan 2019
DISTRICTWIDE: 4.21"

- 79% of average, -1.12" deficit
- Upper Kissimmee, Lake Okeechobee, Caloosahatchee and West EAA tend to be near average
- Largest deficits are observed for Eastern Palm Beach and WCAs 1 and 2

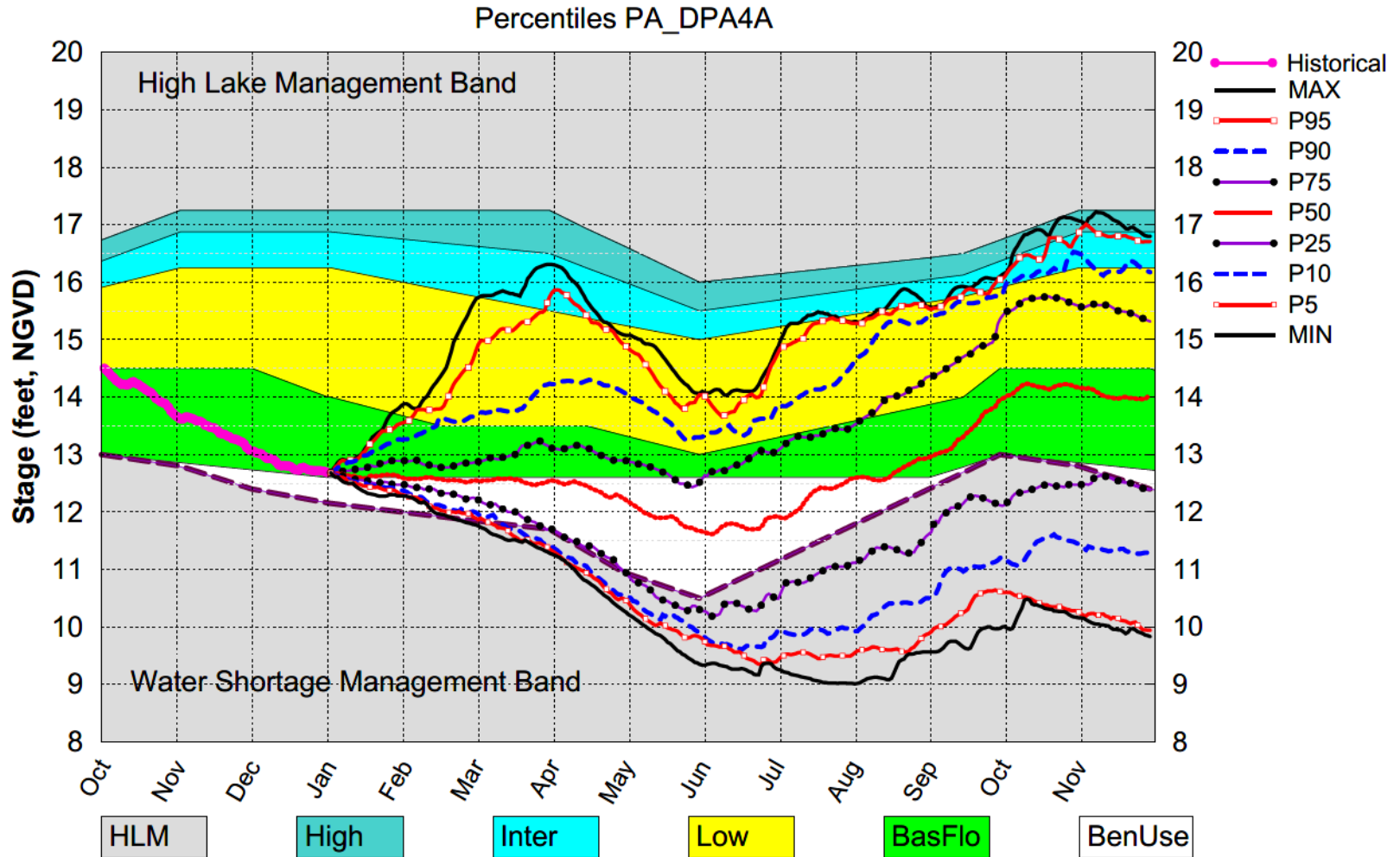


Lake Okeechobee Water Level



- Lake stage is 12.30 feet NGVD as of 01/24/2019
- Lake level decreased by 0.37 feet since January 1 and 2.38 feet over last 4 months
- 2.42 feet below average (1965-2007)

Lake Okeechobee SFWMM Jan 2019 Position Analysis



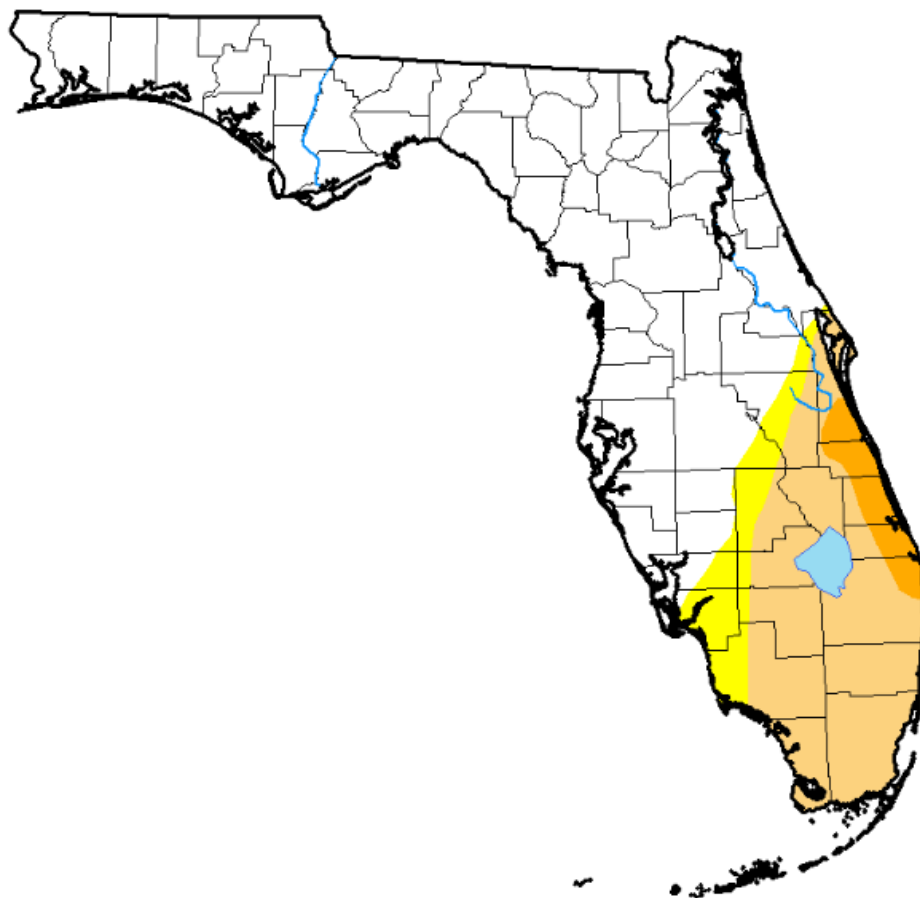
(See assumptions on the Position Analysis Results website)

Mon Jan 7 14:45:12 2019

US Drought Monitor – Florida

Map released: Thurs. January 24, 2019

Data valid: January 22, 2019 at 7 a.m. EST



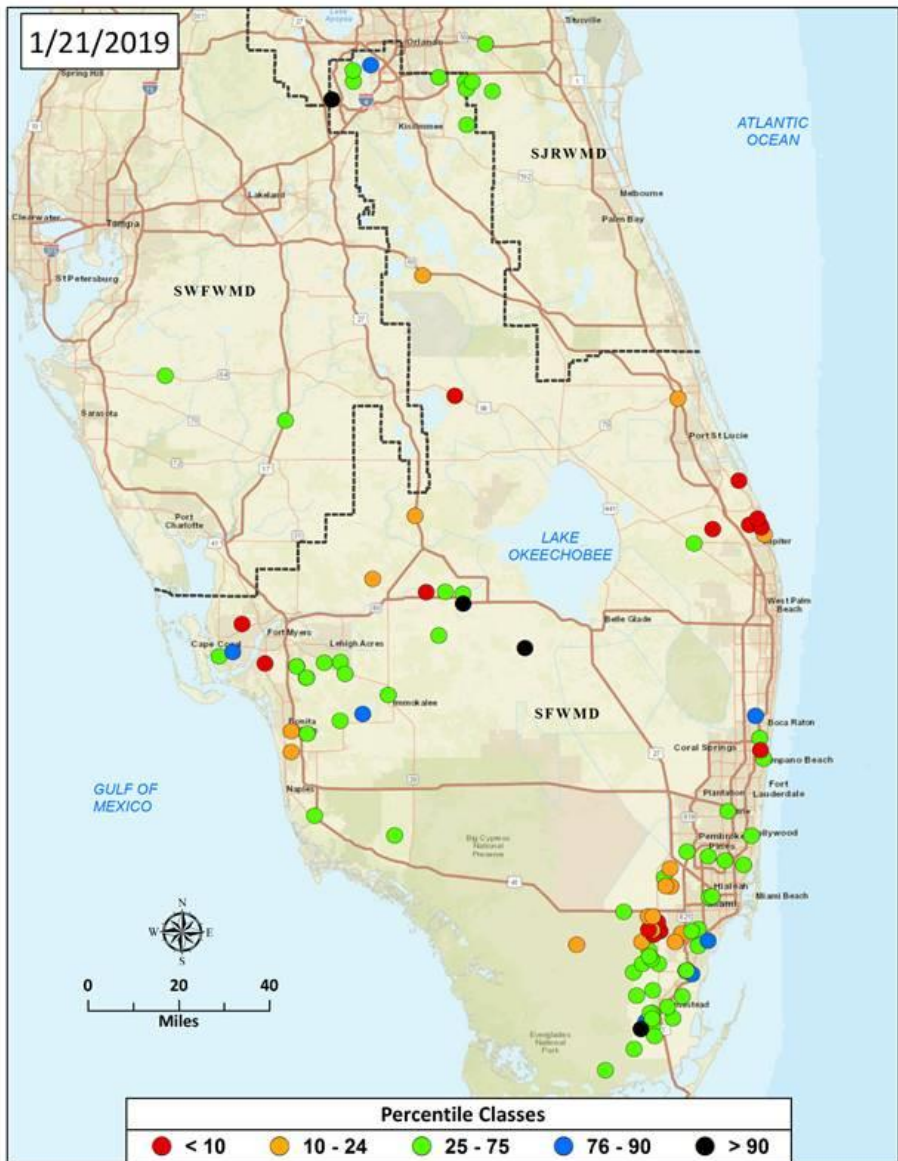
Intensity:

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

Author(s):

Brian Fuchs, National Drought Mitigation Center

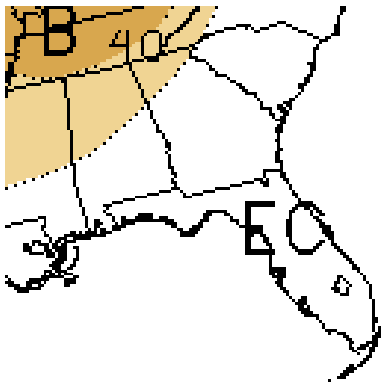
*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying **text summary** for forecast statements.*



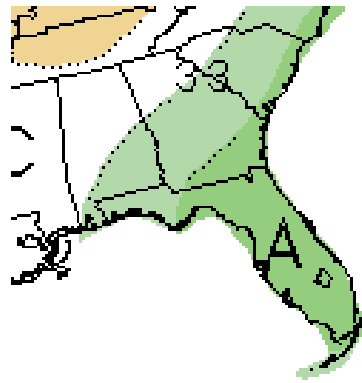
Snapshot of Groundwater Levels January 21, 2019

- Each dot is a color-coded statistical representation of water levels based on historical data from a well
- Wells have differing periods of record
- Red does not necessarily indicate an impact to the resource

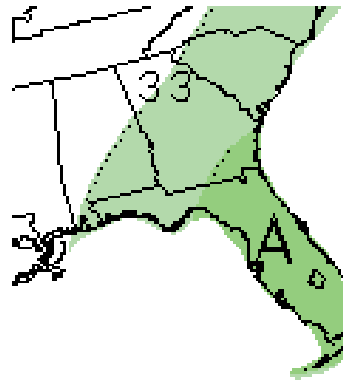
Climate Prediction Center (CPC) Precipitation Outlook (1/17/2019)



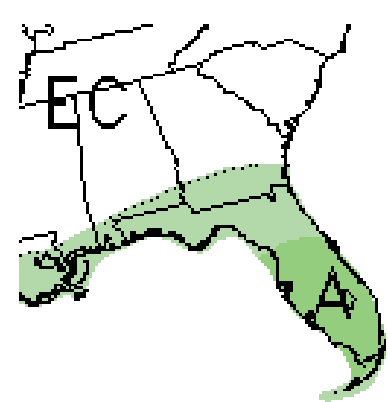
30-Day



Feb-Apr 2019

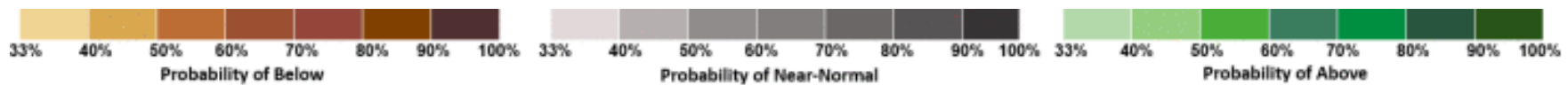


Mar-May 2019

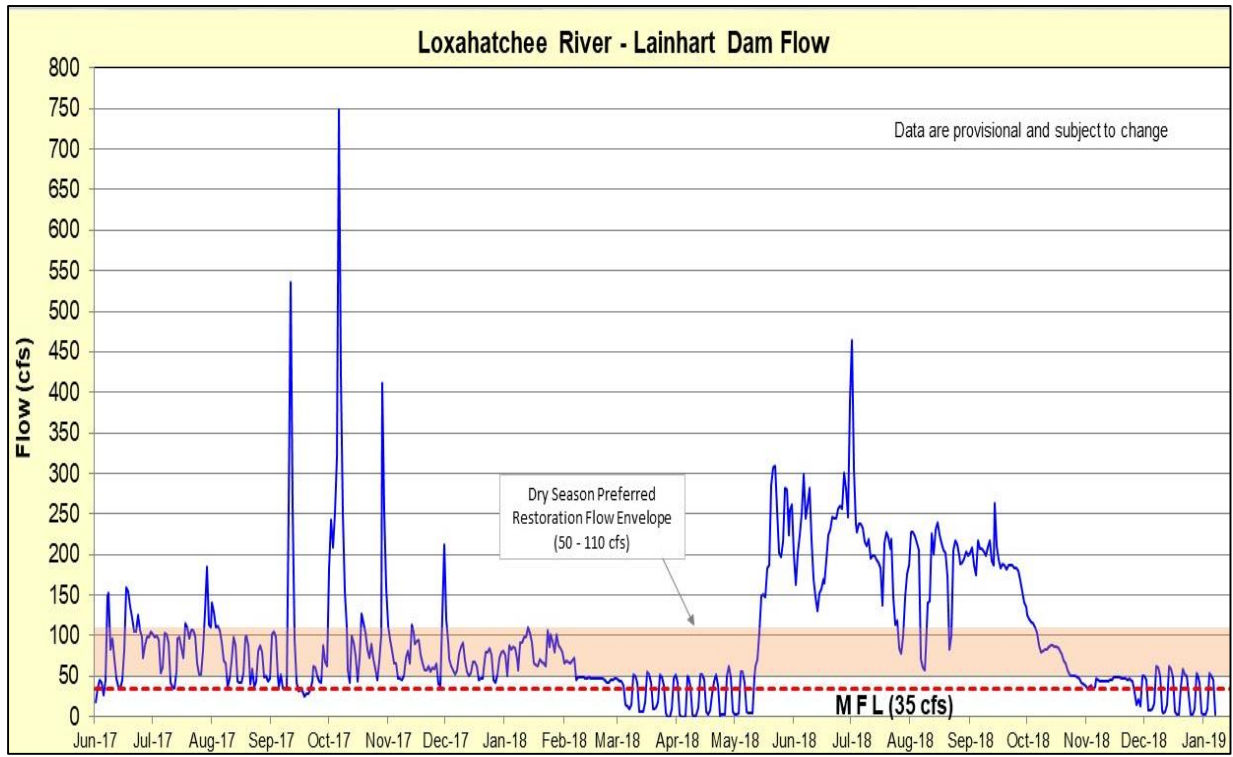


May-Jul 2019

- The CPC precipitation outlook for 30-day is for equal chances of above-normal, normal, or below normal rainfall for south Florida.
- The outlook for the 3-month windows from Feb-Apr, Mar-Jun and May-Jul is for increased chances of above-normal precipitation.



Loxahatchee MFL



Lainhart Dam

MFL for the NW Fork of the Loxahatchee River is 35 cfs at Lainhart Dam

Helpful Links

- Real-time and historical water levels
 - <https://www.sfwmd.gov/science-data/levels>
- US Drought Monitor
 - <https://droughtmonitor.unl.edu>
- Climate Prediction Center (CPC)
 - <http://www.cpc.ncep.noaa.gov>
- Current SFWMD Weather Conditions
 - <https://www.sfwmd.gov/weather-radar/current-weather-conditions>
- Loxahatchee River Management Coordinating Council
 - <https://loxahatcheeriver.org/river/lrmcc/>

Questions

