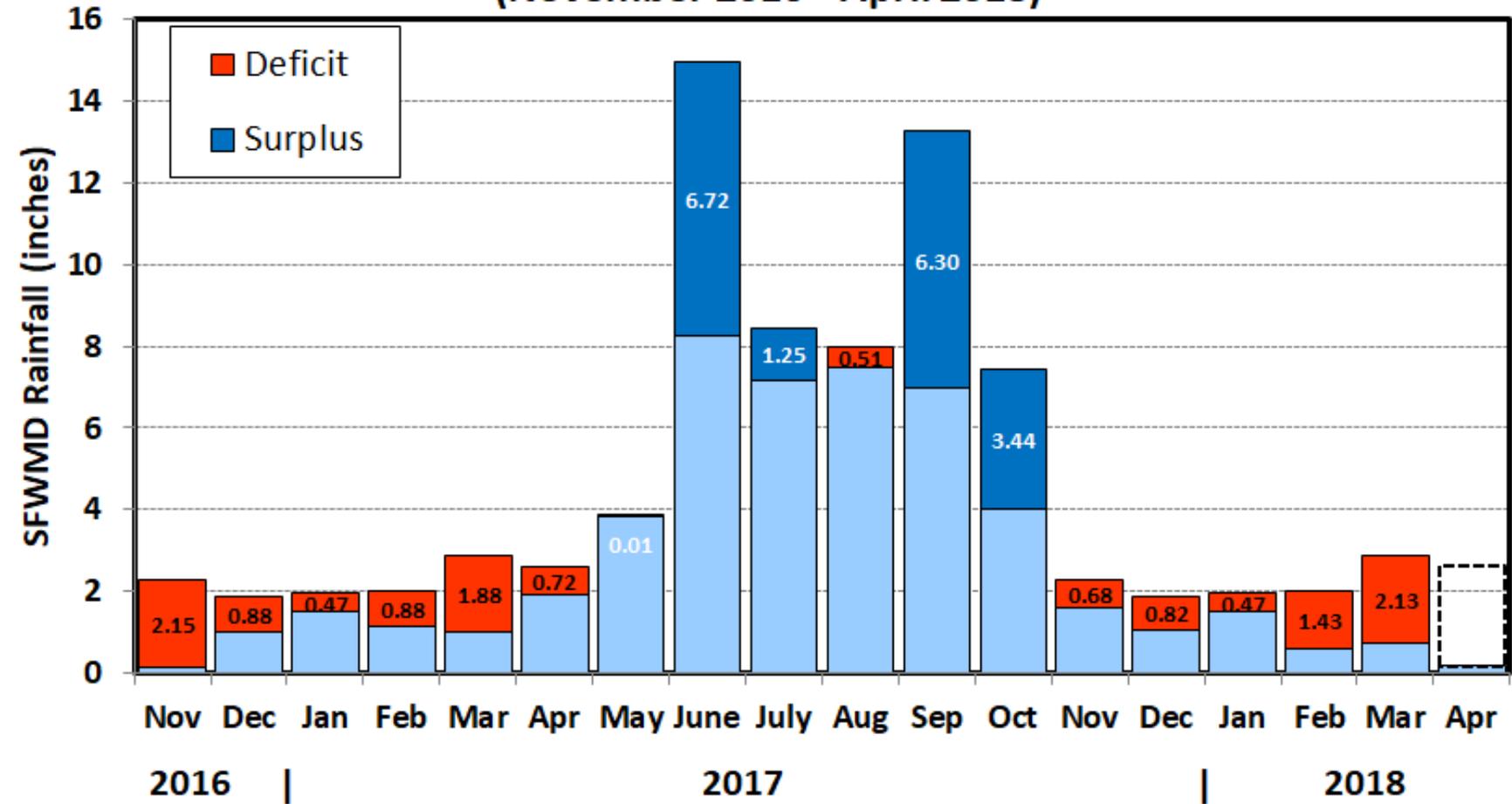


Water Conditions Summary

**South Florida Water Management District
WRAC Meeting
April 05, 2018**

**John P. Mitnik, PE
Chief District Engineer**

SFWMD Rainfall Distribution Comparison (November 2016 - April 2018)



2016-2017 DRY SEASON:

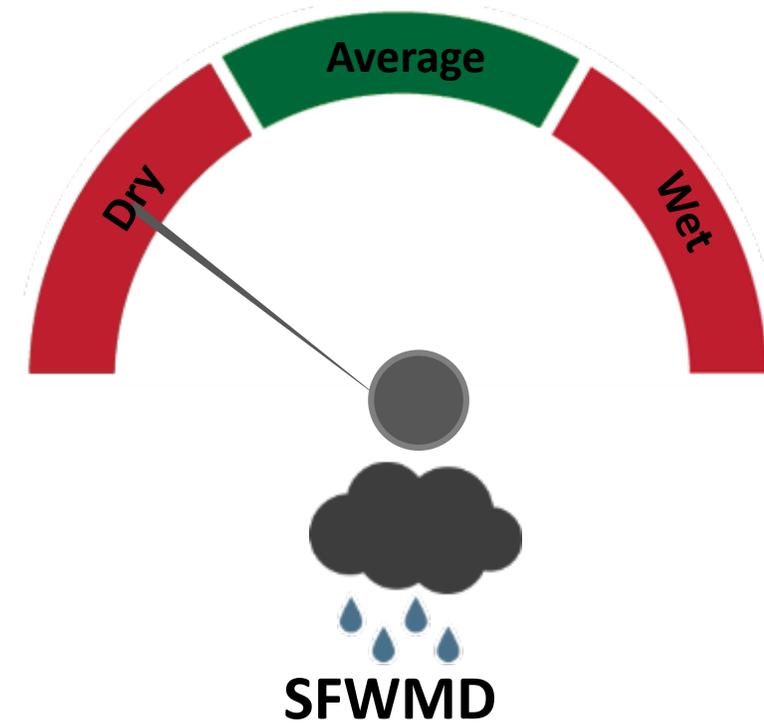
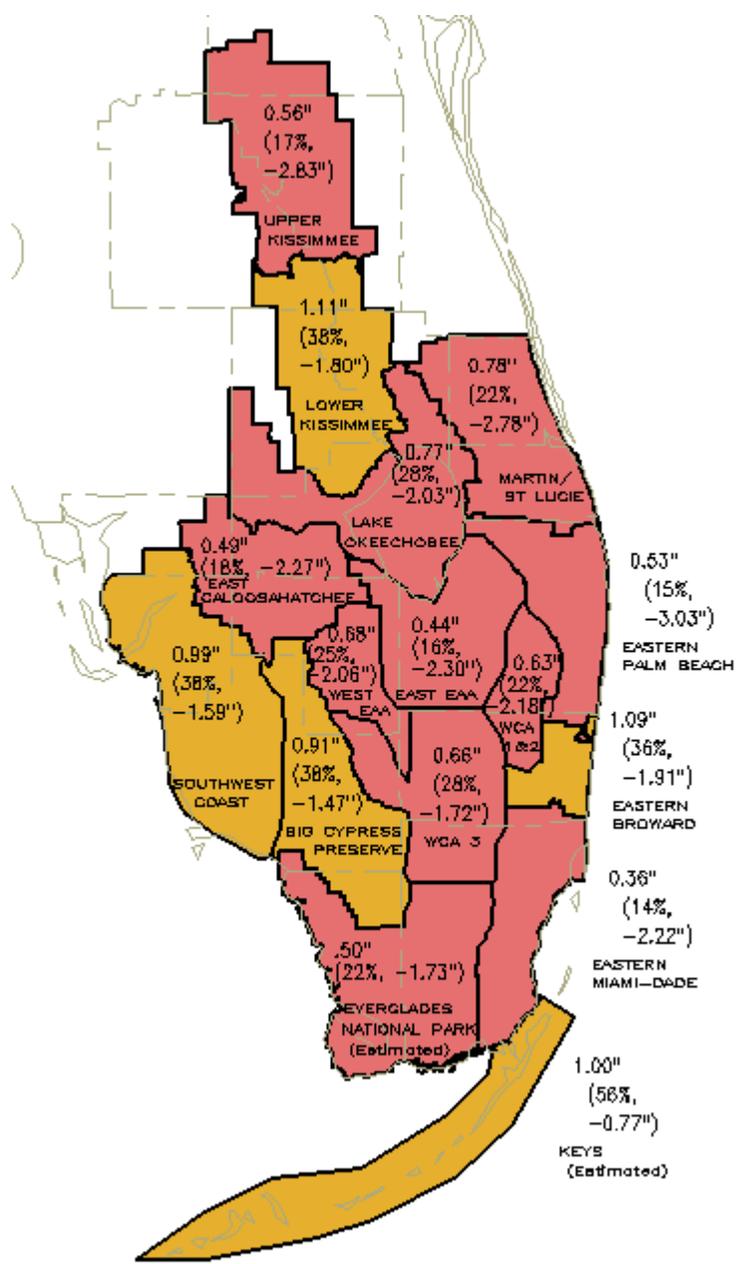
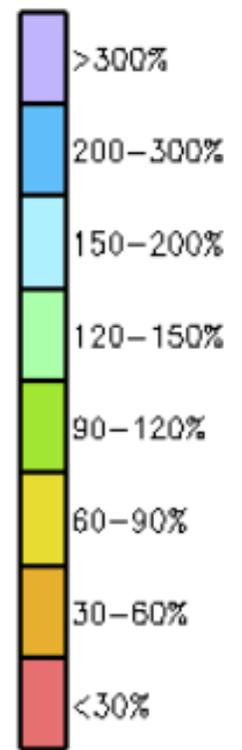
- Below average

2017 WET SEASON:

- June, September and October 2017 were ~ 190% average
- Hurricane Irma Impact ~ 8.5"
- TS Philippe ~ 2.4"

2017-2018 DRY SEASON:

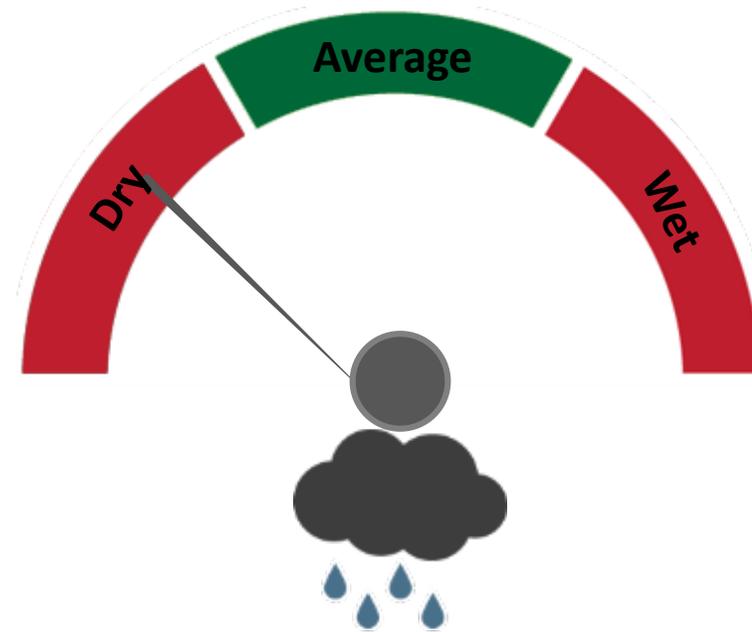
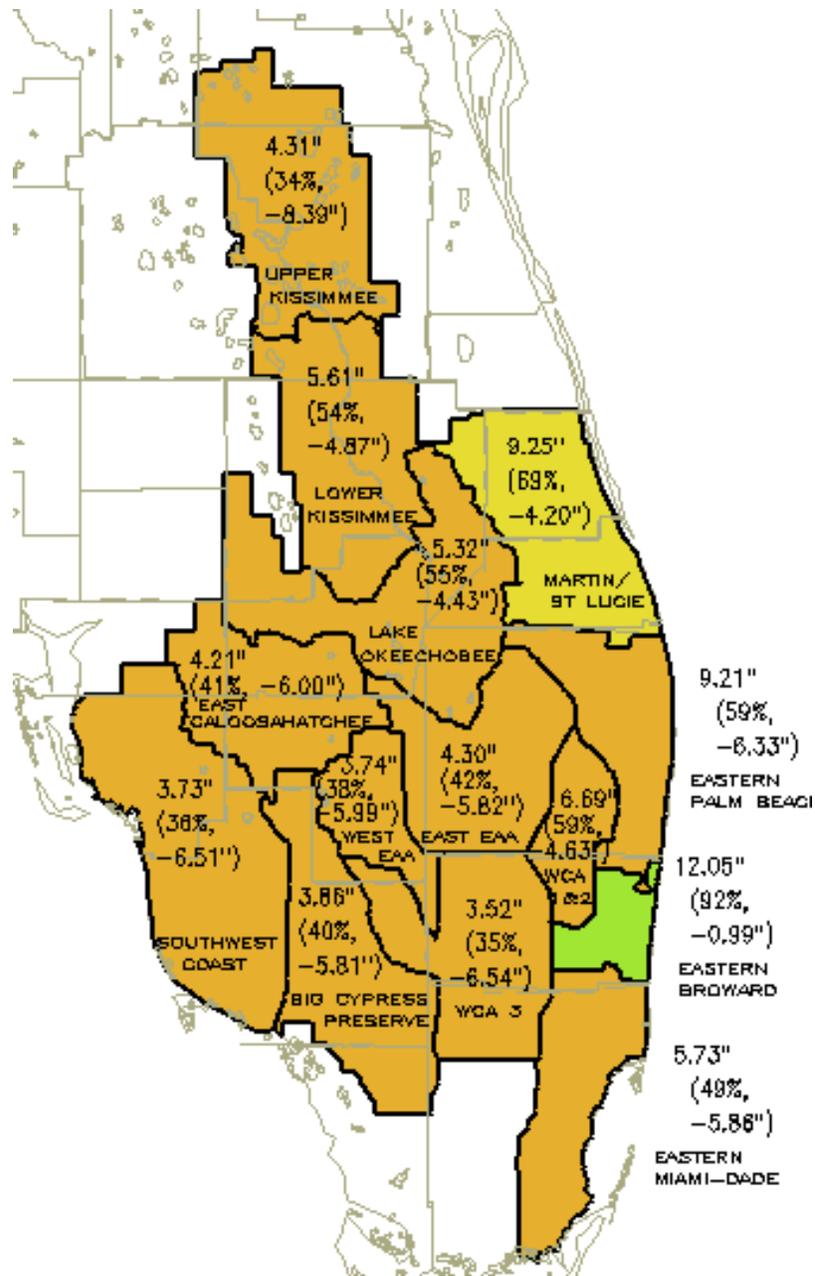
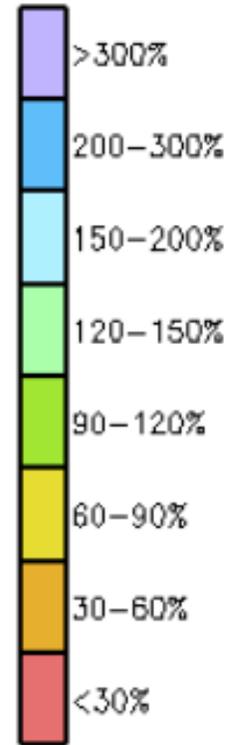
- Below average up-to-date
- All months are below average
- April up to date is ~ 0.16"



March 2018 Rainfall

DISTRICT-WIDE: 0.73"

- Well below average: 26% or -2.13"
- **All** rainfall areas are below average
- Most of the East Coast urban areas are well below average
- Basin with largest deficit is Eastern Palm Beach County with -3.03"
- Big Cypress Preserve has the smallest deficit -1.47"



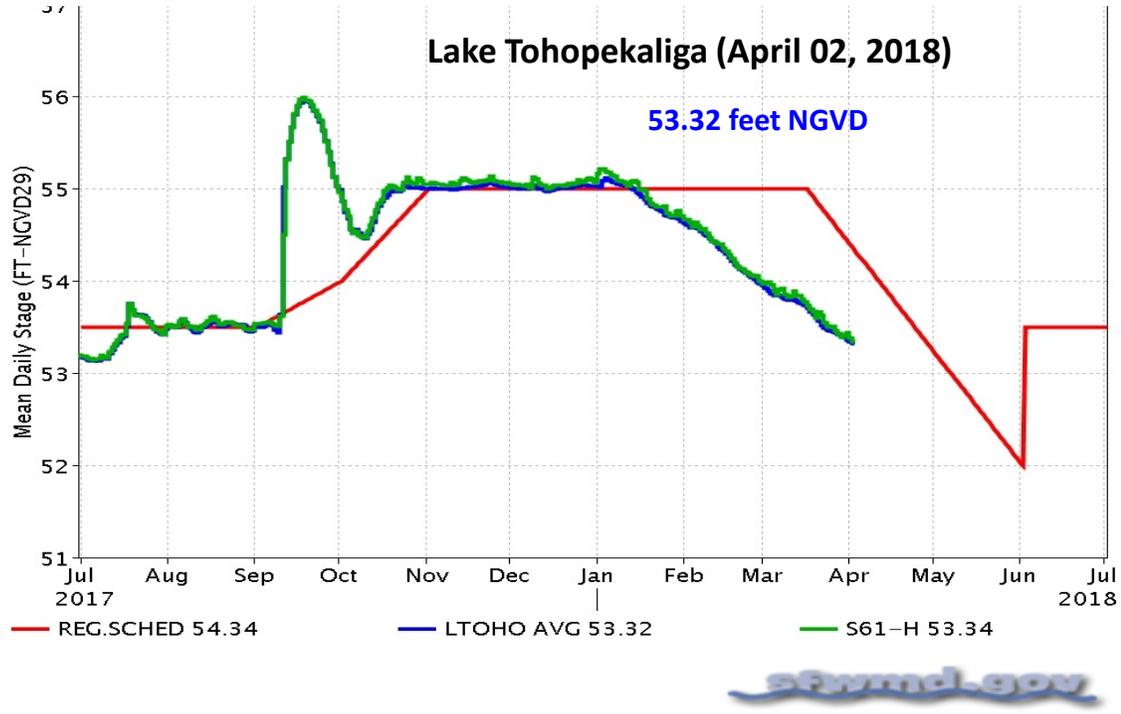
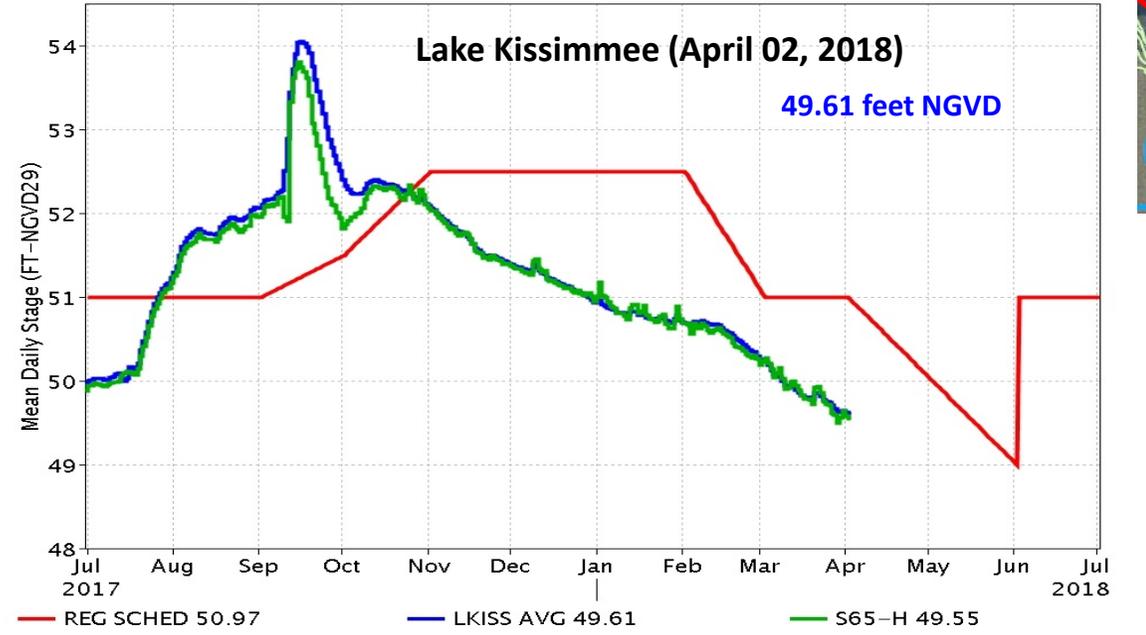
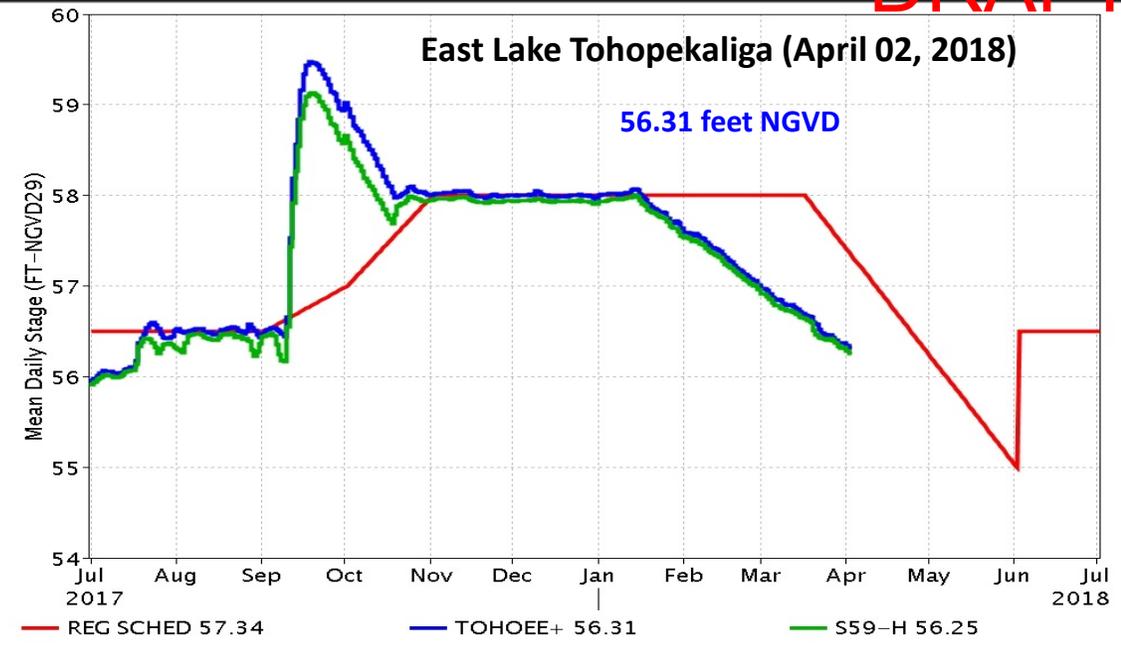
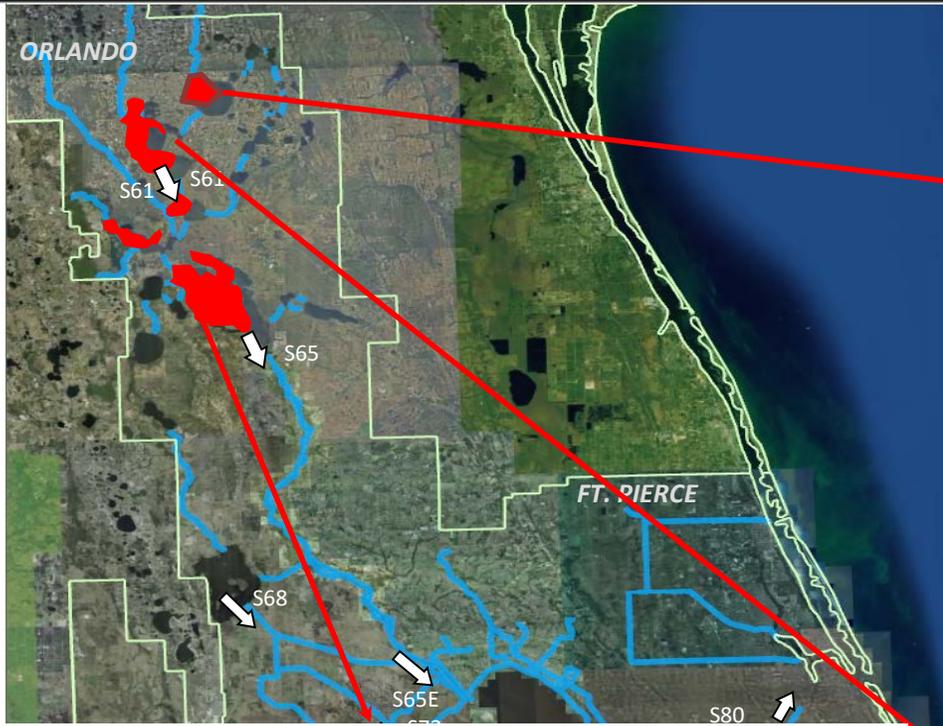
SFWMD

Dry Season Rainfall

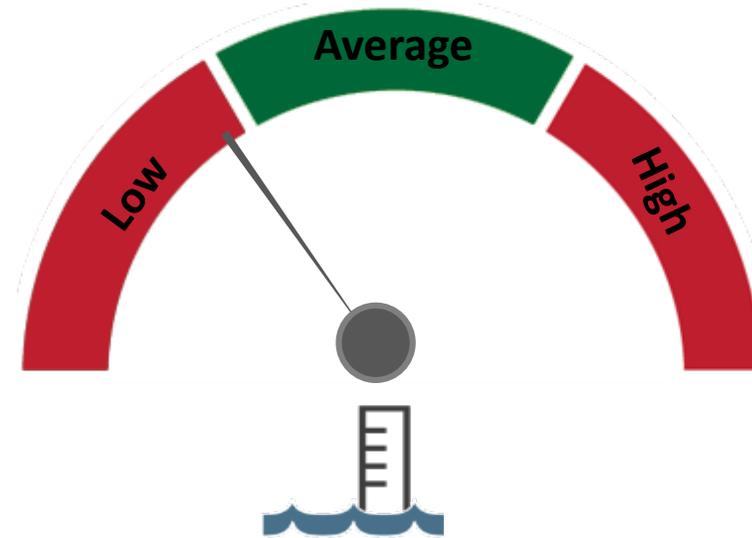
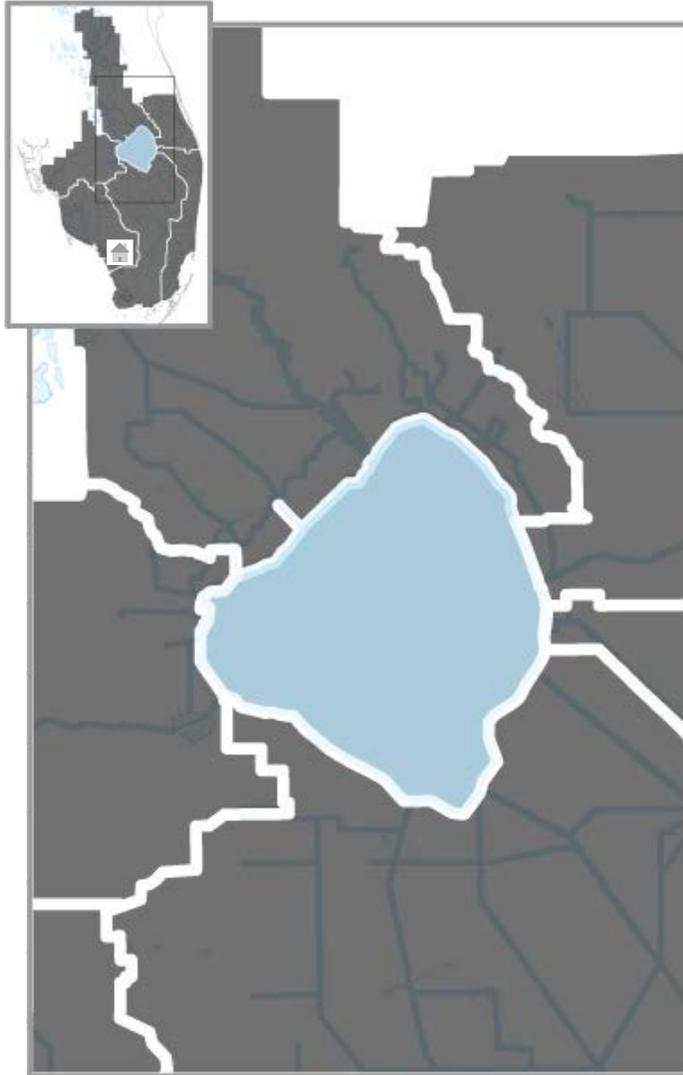
02-Nov, 2017 to 02-Apr, 2018

DISTRICT-WIDE: 5.40"

- 49% of average or -5.70"
- Only one rainfall area is near-average: Eastern Broward (-0.99" deficit)
- Largest deficit is for Upper Kissimmee at -8.39"

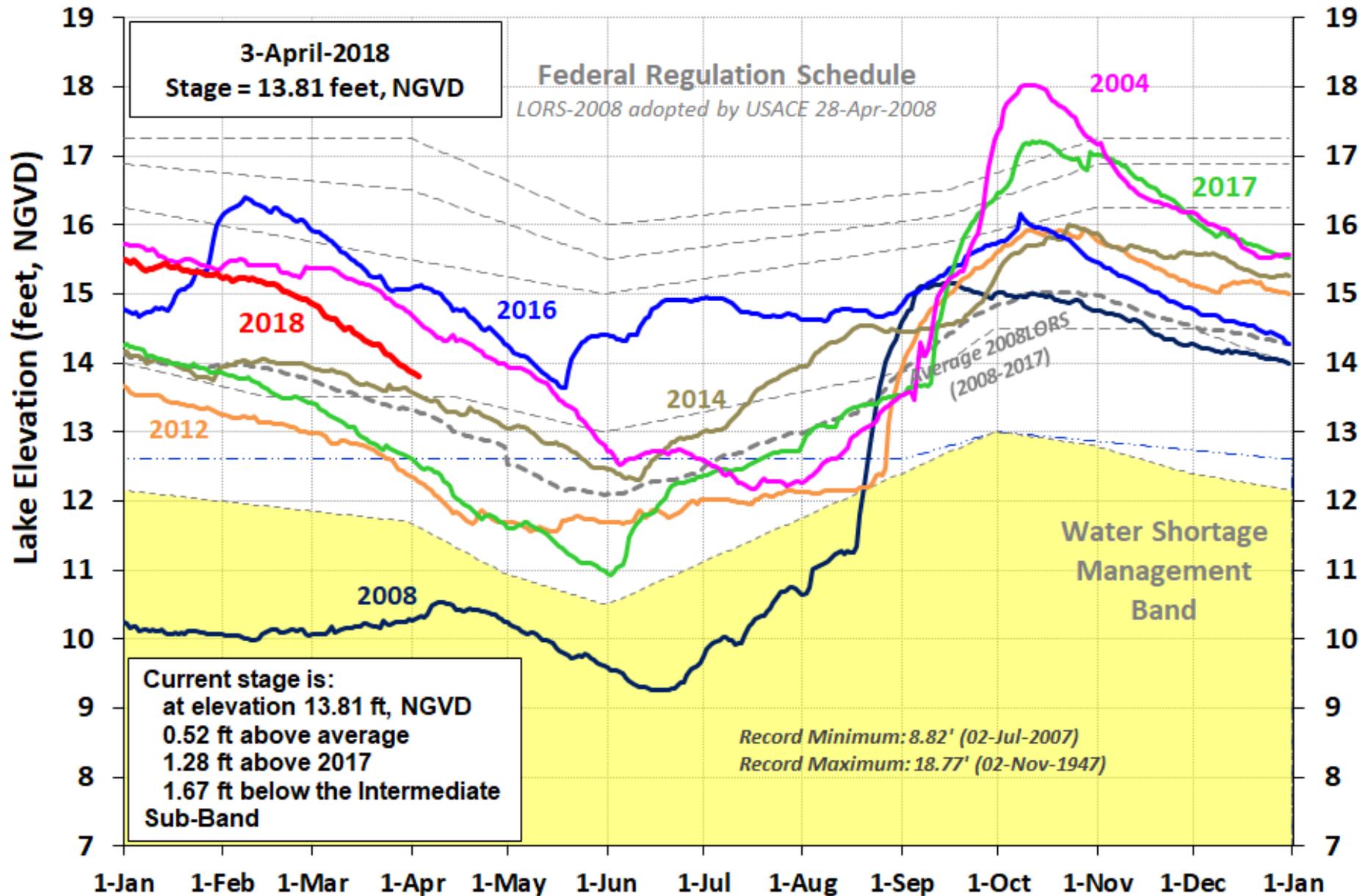


Lake Okeechobee Water Level

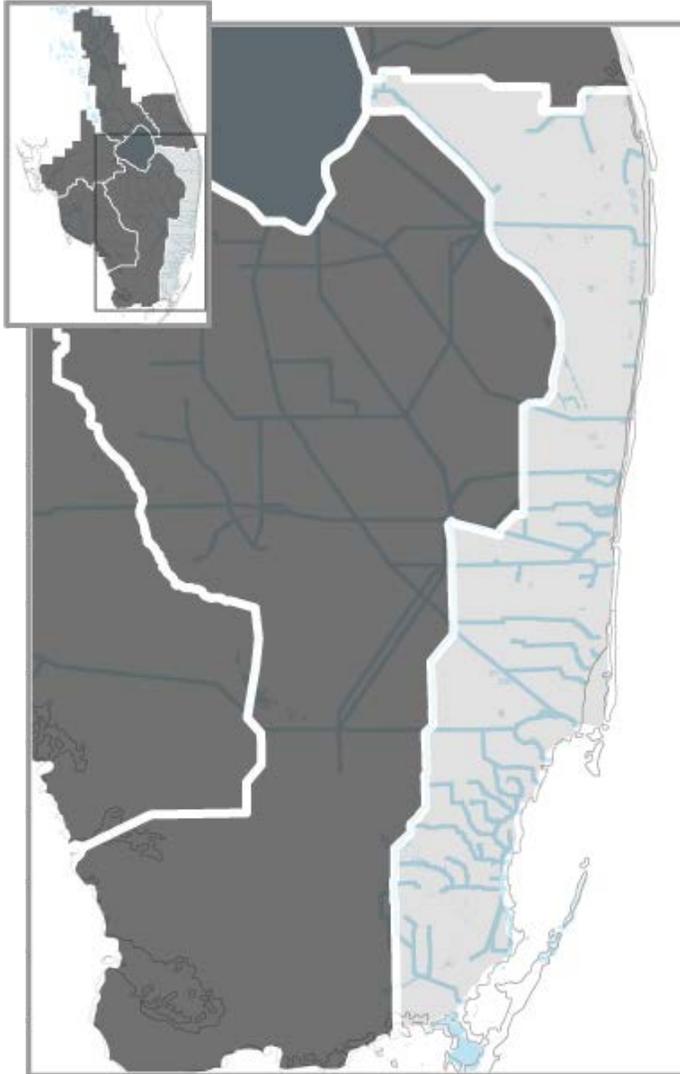


- Lake stage is 13.81 feet NGVD
- Lake level decreased about 0.93 feet during the preceding 30 days

Lake Okeechobee Water Level Comparison



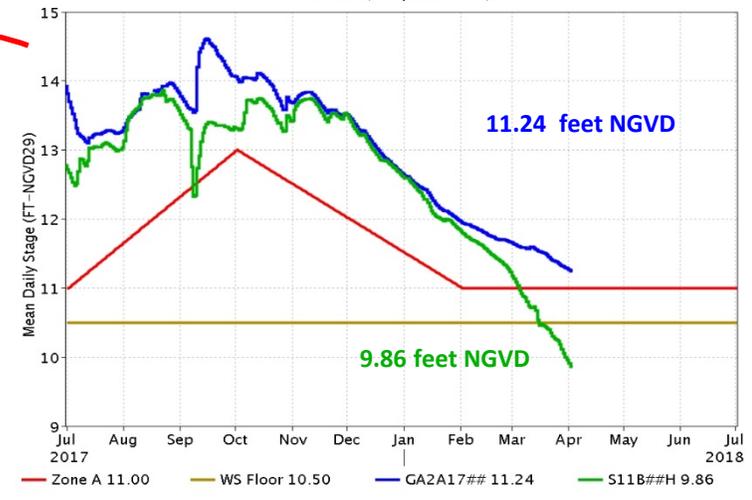
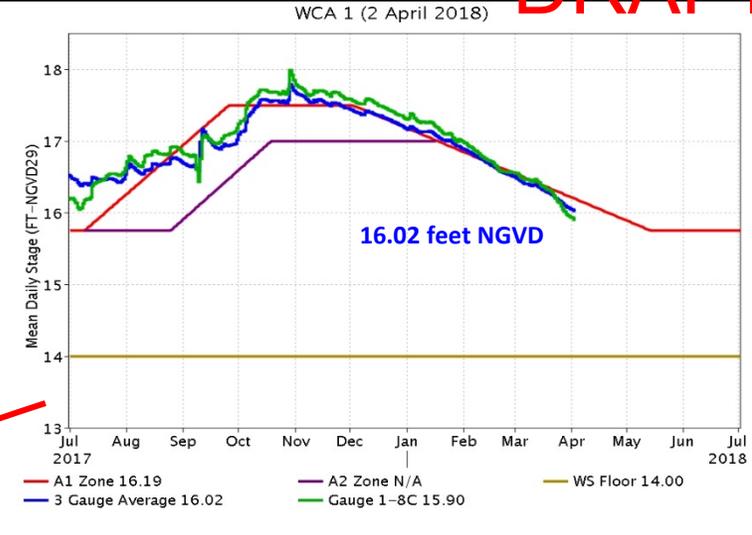
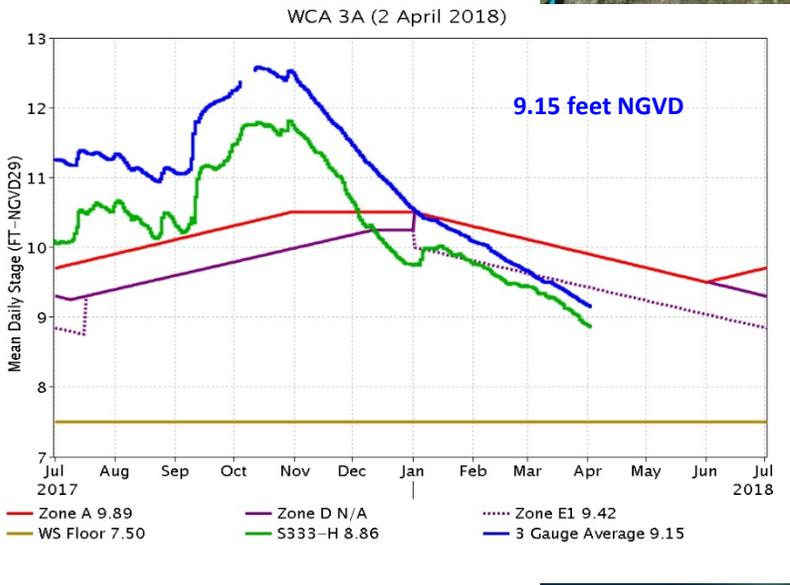
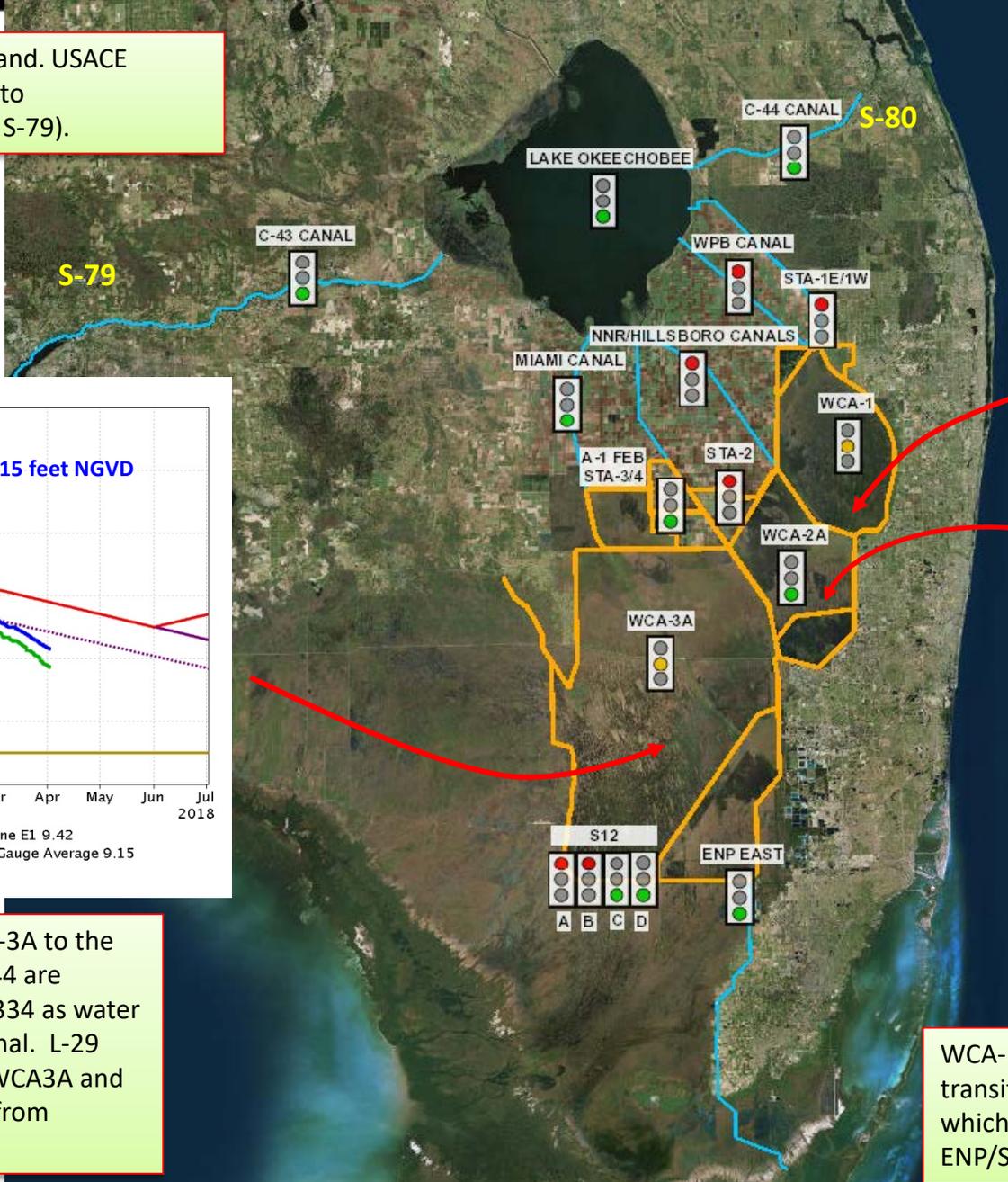
Lower East Coast



Operations

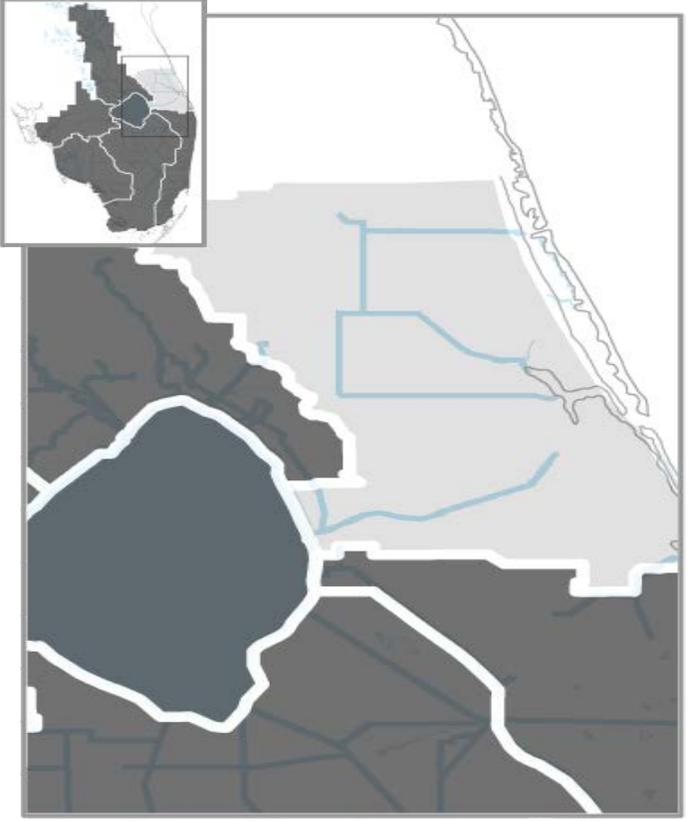
- Canals have been mostly operating for water supply
- Since the middle of March, any volume of water supply deliveries from WCA 2A needs to be preceded by a similar inflow volume from an upstream source (stage below floor elevation)

Lake Okeechobee stage is in the Low Sub-Band. USACE currently implementing Base Flow releases to Caloosahatchee Estuary (650 cfs average at S-79).



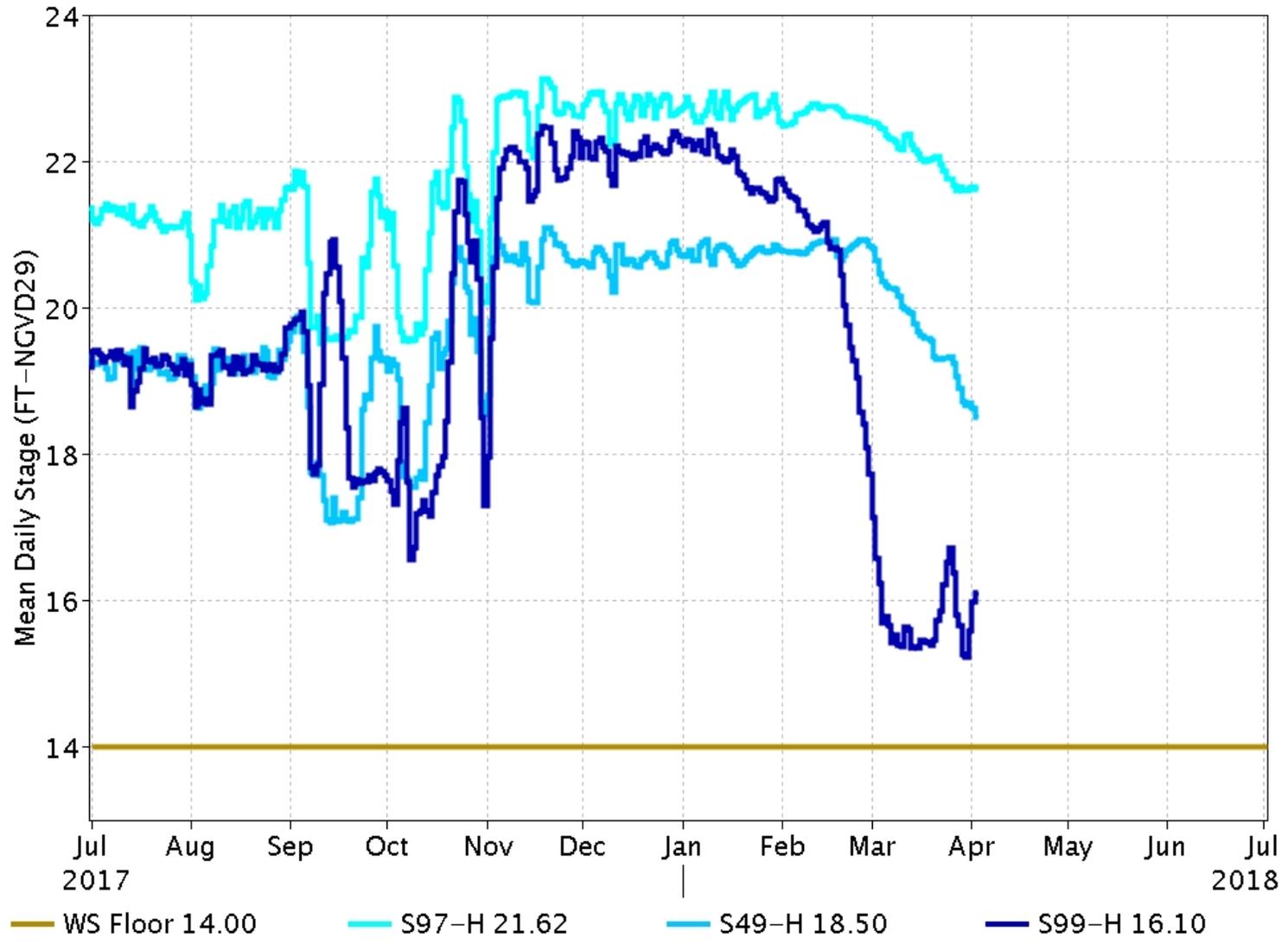
Rainfall Plan calls for no releases from WCA-3A to the ENP. S-12 A, B, C and D, S-343 A&B and S-344 are closed. S-333 passing ~ 130 cfs, through S-334 as water supply to Taylor Slough and lower C-111 Canal. L-29 canal stage constraint is at 7.5 feet NGVD. WCA3A and SDCS being operated under transition plan from Increment 1.1/1.2 to 2.0.

WCA-1 is below schedule; WCA-2A (S11B-HW) is below the transition and the regular schedule; WCA-3A is below Zone E1, which results in no flood control releases from WCA-3A to ENP/SDCS.



Upper East Coast Water Levels

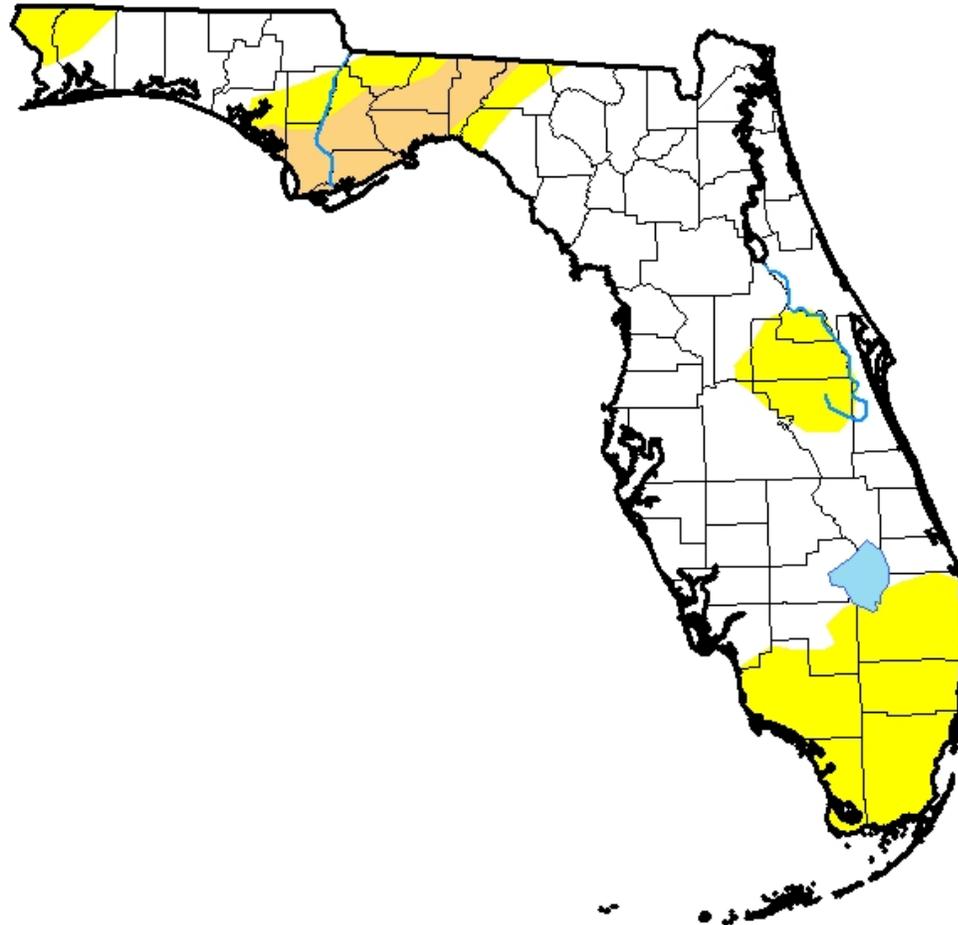
SAINT LUCIE STRUCTURES (2 April 2018)



- March rainfall is well below average
- Irrigation demands have intensified

U.S. Drought Monitor Florida

February 27, 2018
(Released Thursday, Mar. 1, 2018)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	67.82	32.18	6.60	0.00	0.00	0.00
Last Week <i>02-20-2018</i>	72.16	27.84	6.92	0.00	0.00	0.00
3 Months Ago <i>11-28-2017</i>	65.94	34.06	12.25	0.00	0.00	0.00
Start of Calendar Year <i>01-02-2018</i>	72.59	27.41	22.39	0.00	0.00	0.00
Start of Water Year <i>09-26-2017</i>	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago <i>02-28-2017</i>	35.25	64.75	25.47	0.00	0.00	0.00

Intensity:

- 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.

Author:

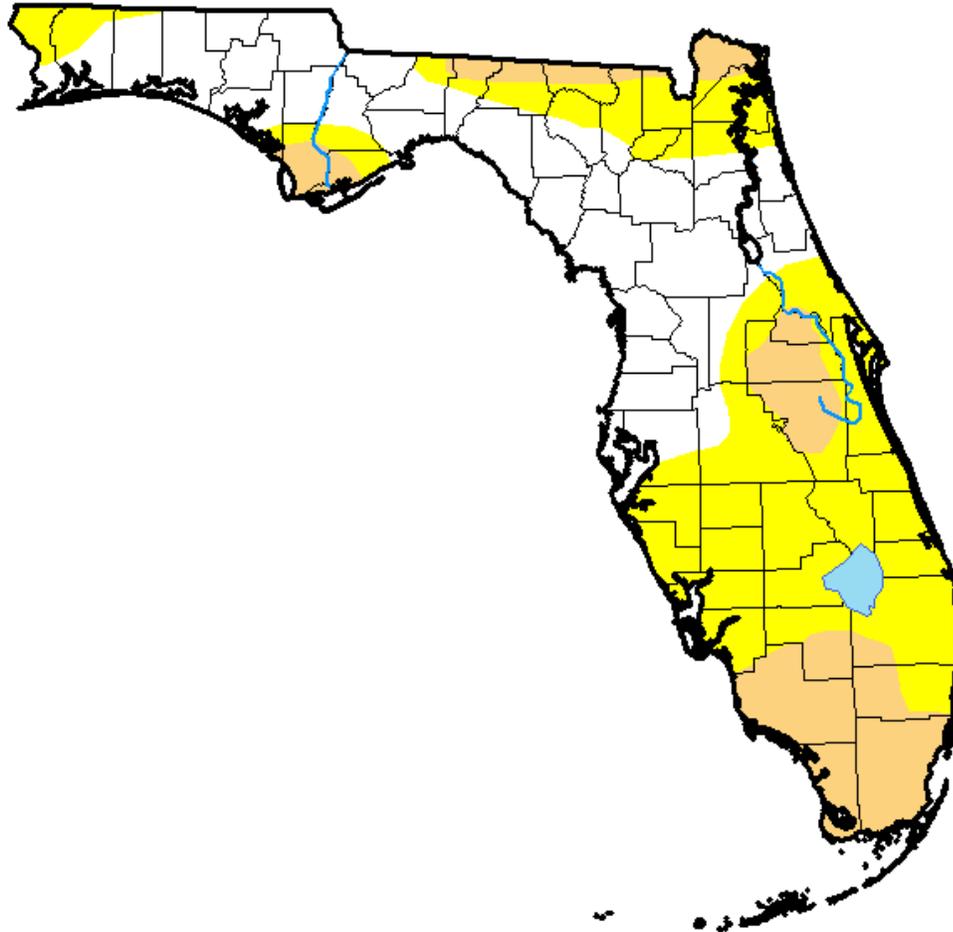
Deborah Bathke
National Drought Mitigation Center



<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor Florida

March 27, 2018
(Released Thursday, Mar. 29, 2018)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	39.71	60.29	19.20	0.00	0.00	0.00
Last Week <i>03-20-2018</i>	52.18	47.82	11.51	0.00	0.00	0.00
3 Months Ago <i>12-26-2017</i>	72.59	27.41	17.93	0.00	0.00	0.00
Start of Calendar Year <i>01-02-2018</i>	72.59	27.41	22.39	0.00	0.00	0.00
Start of Water Year <i>09-26-2017</i>	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago <i>03-29-2017</i>	8.78	91.22	51.89	11.48	0.00	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

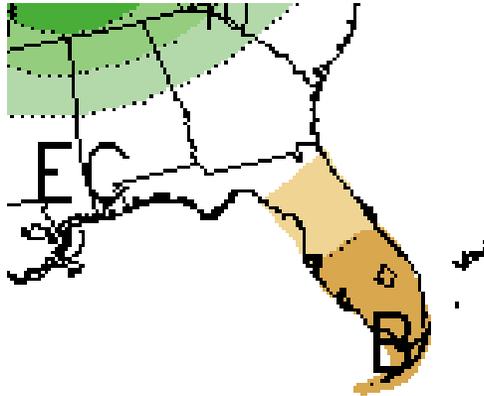
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Chris Fenimore
NCEI/NESDIS/NOAA



CPC Precipitation Outlook

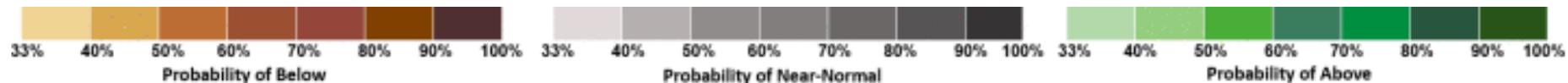


April 2018



April – June 2018 to the End of the 2018 Wet Season

- The outlook for April 2018 is for ~45% below average. The outlook for all future 3-month windows starting April-June 2018 and into 2019 is for Equal Chances of Above-Normal, Normal and Below-Normal





Questions