

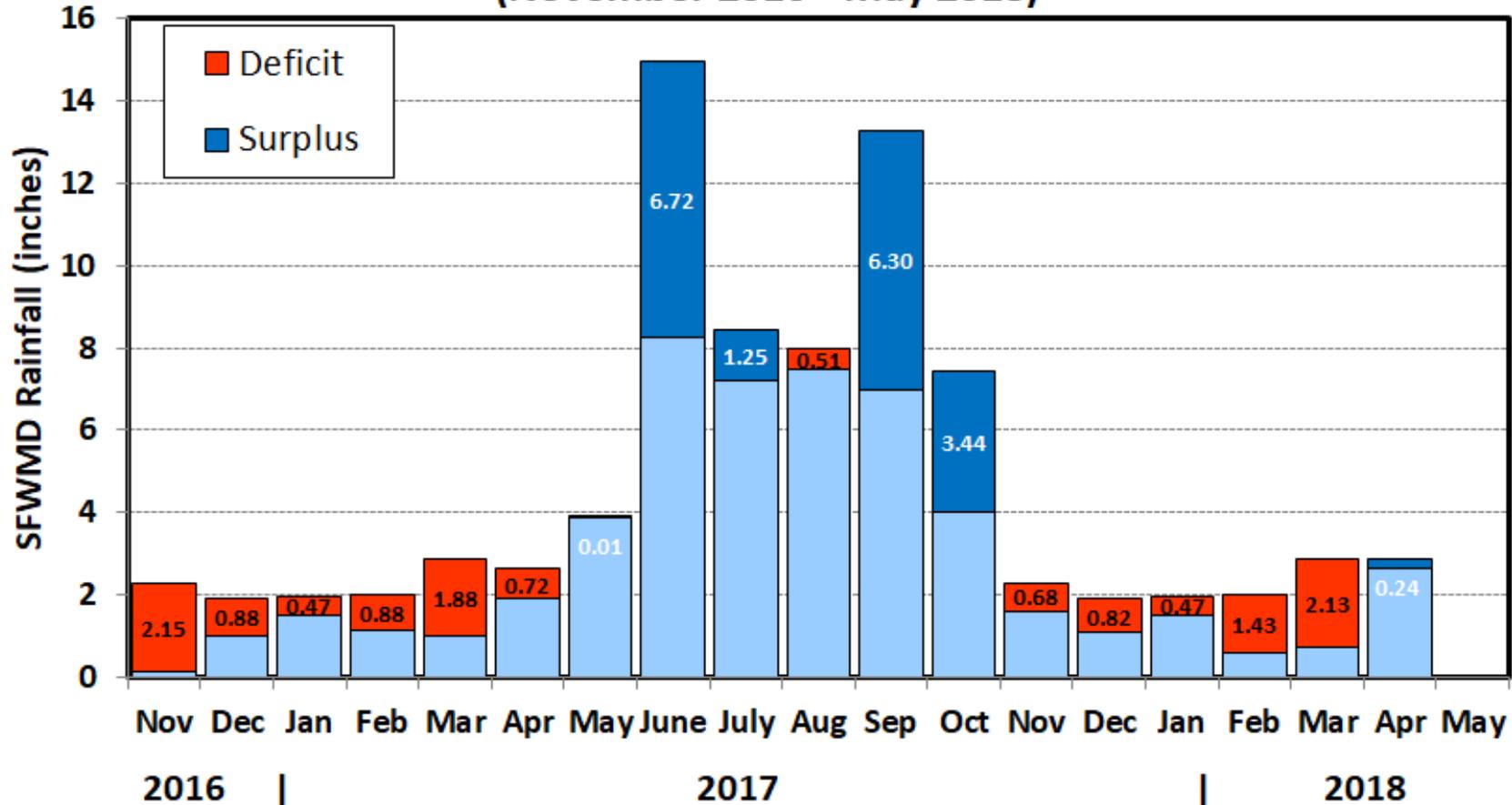
Water Conditions Summary

**South Florida Water Management District
WRAC Meeting
May 3, 2018**

**Akintunde Owosina, PE
Chief, Hydrology and Hydraulics Bureau**

SFWMD Rainfall Distribution Comparison

(November 2016 - May 2018)



2016-2017 DRY SEASON:

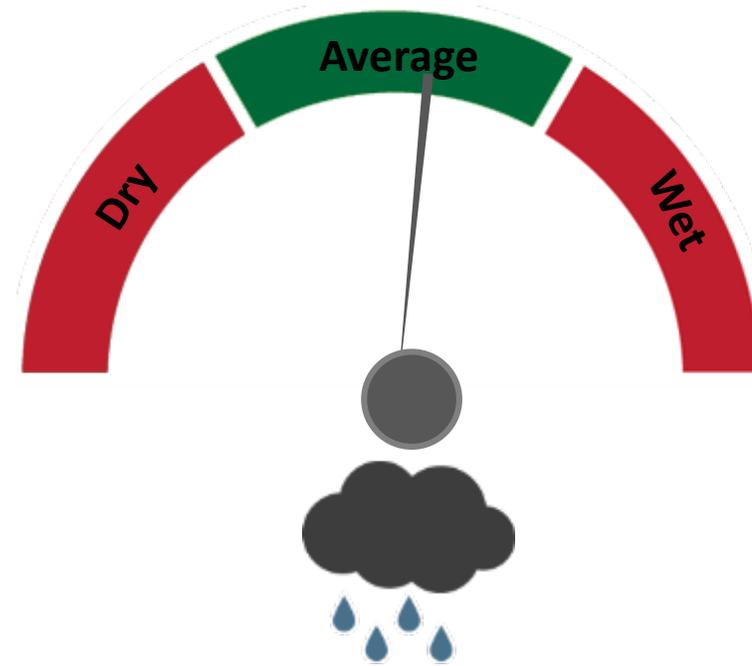
- Below average

2017 WET SEASON:

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

2017-2018 DRY SEASON:

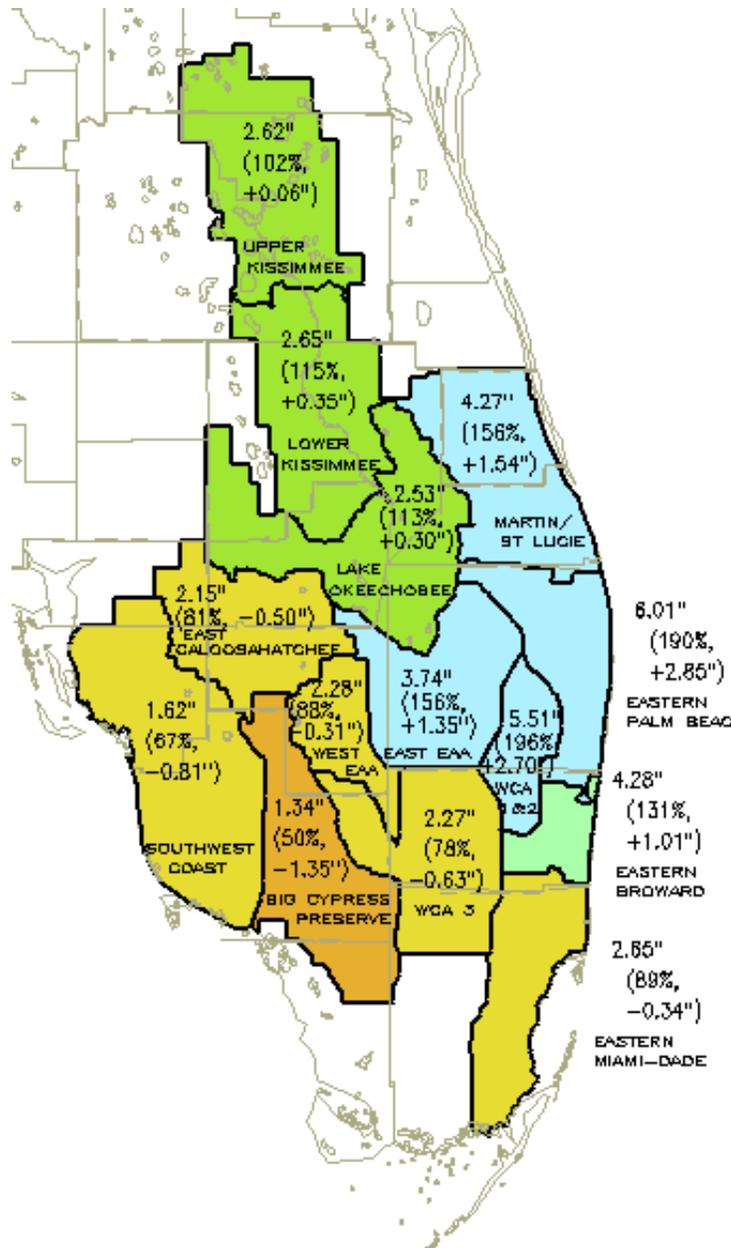
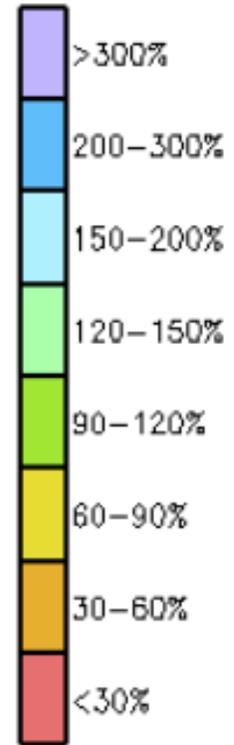
- Below average up-to-date
- All months are below average
- April was first month above average after 5 dry months

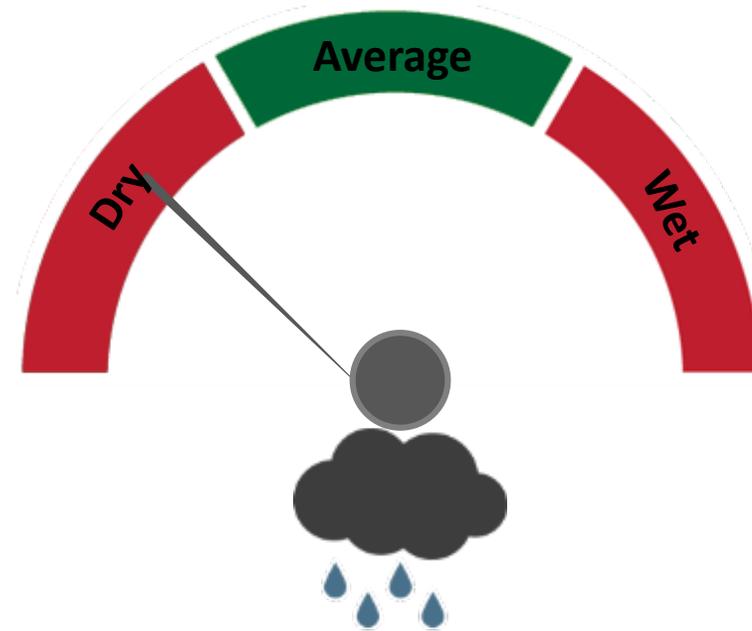


SFWMD

April 2018 Rainfall
DISTRICT-WIDE: 2.86"

- Above average: 109% or +0.24"
- Southwest areas tend to be below average
- Northeast areas tend to be above average
- Basin with largest deficit is Big Cypress Preserve with -1.35"
- Eastern Palm Beach has the largest surplus +2.85"





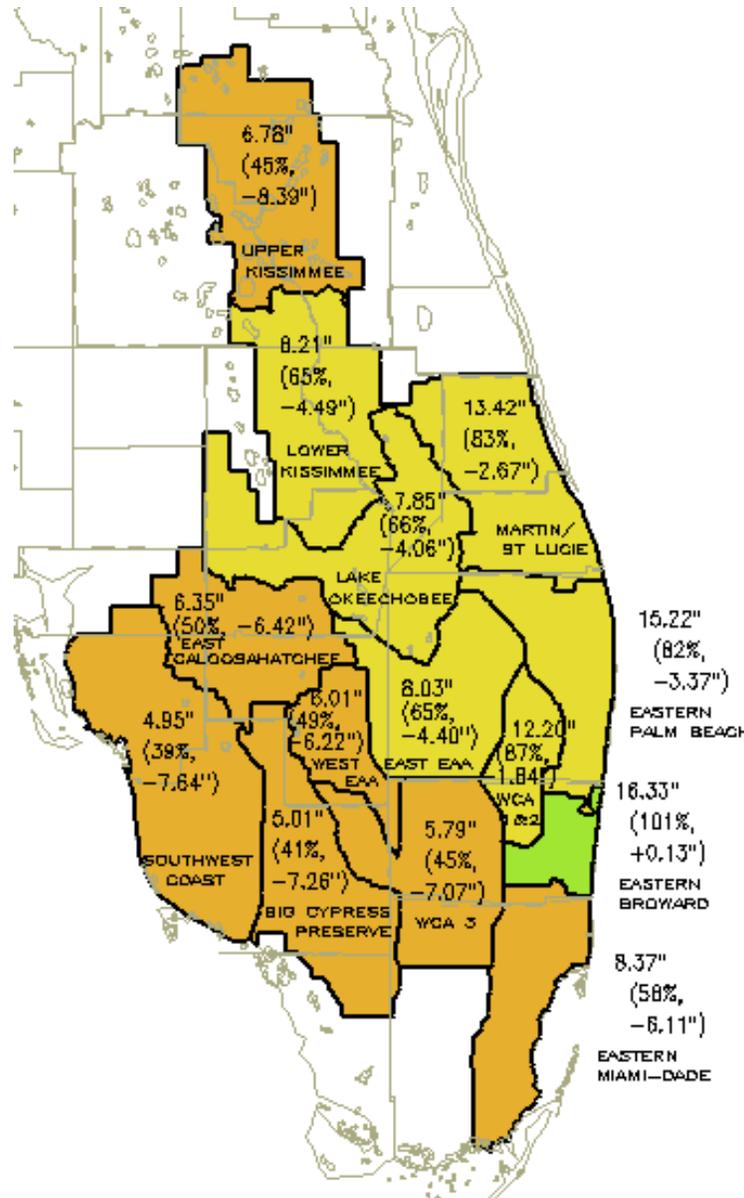
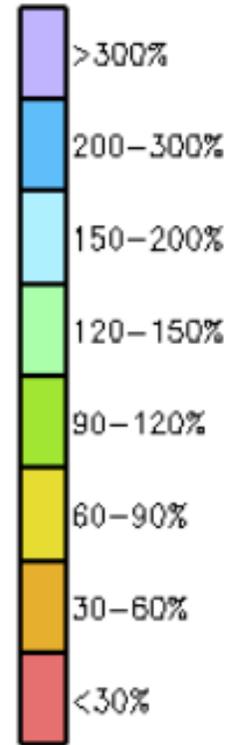
SFWMD

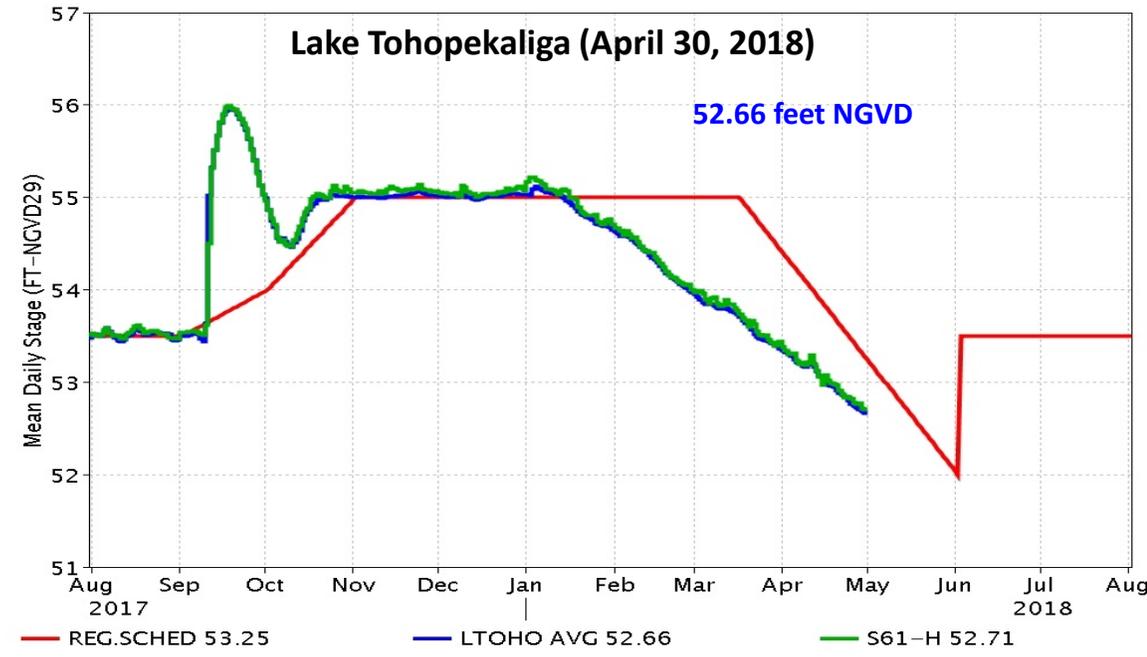
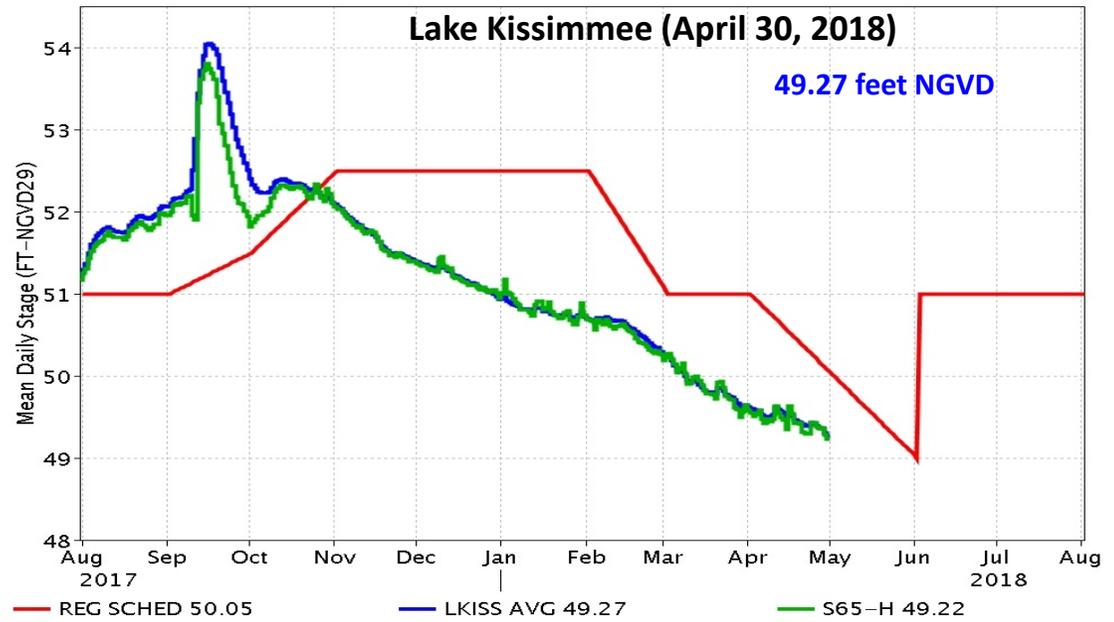
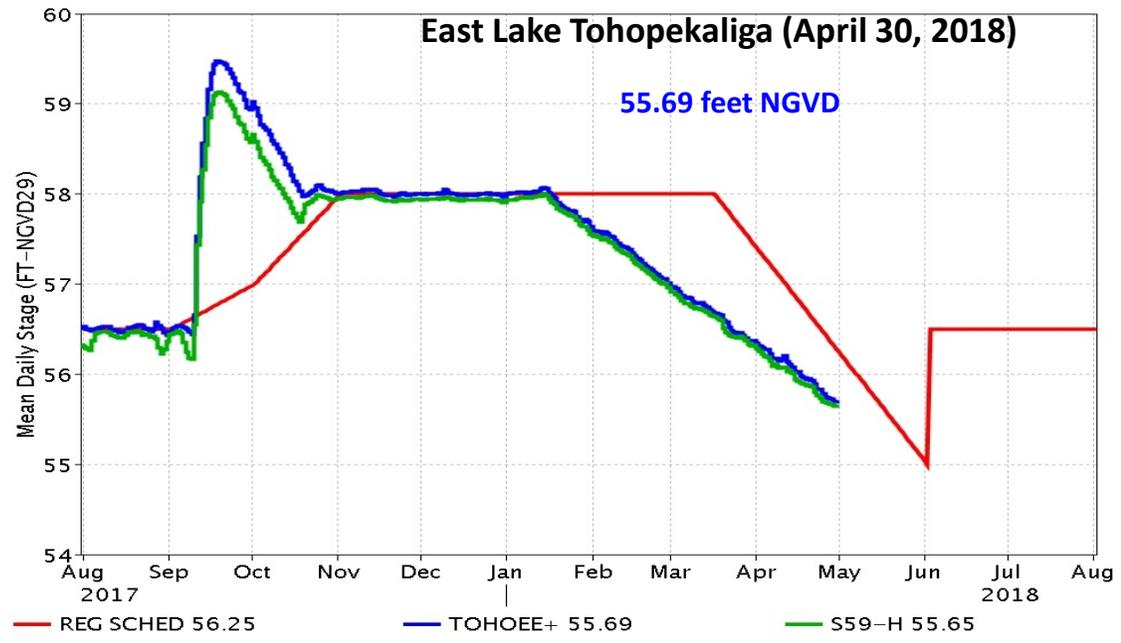
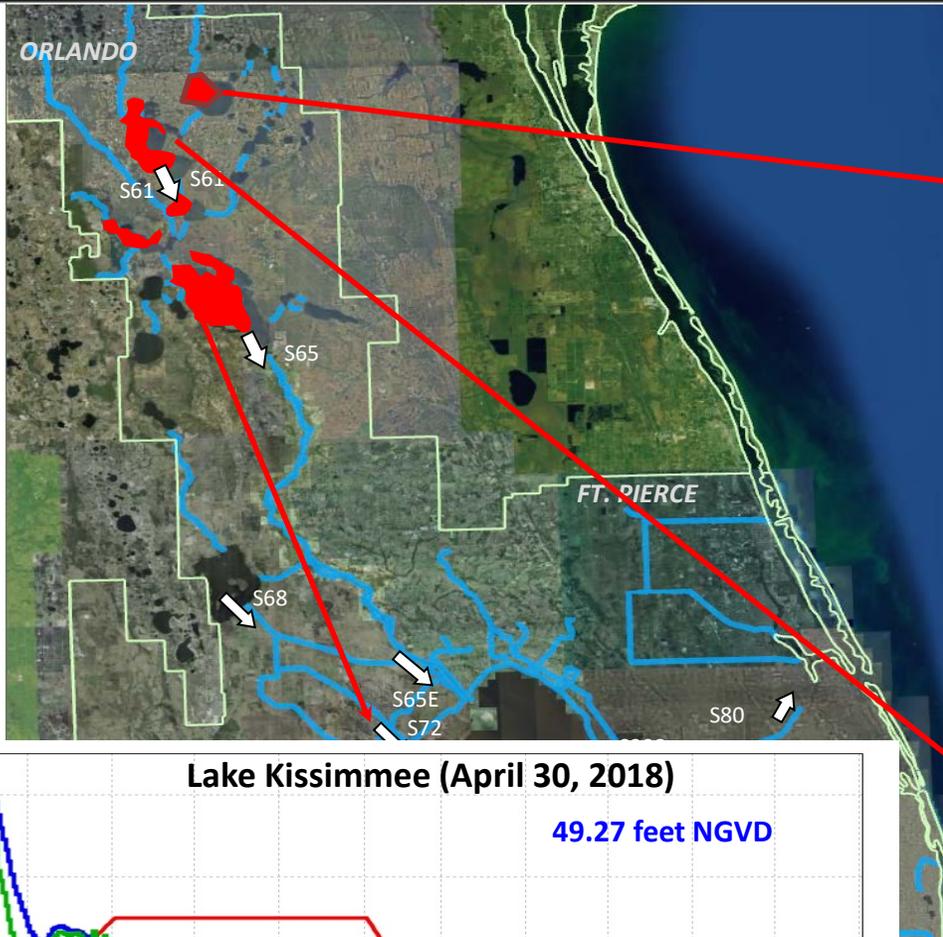
Dry Season Rainfall

02-Nov, 2017 to 30-Apr, 2018

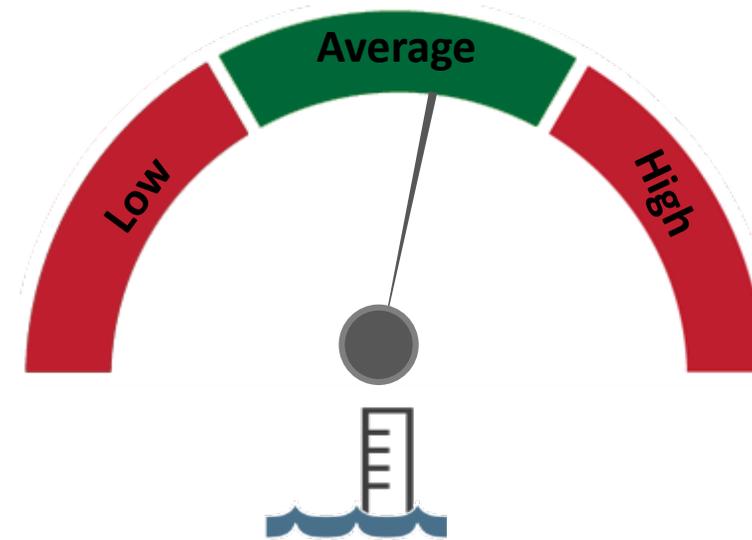
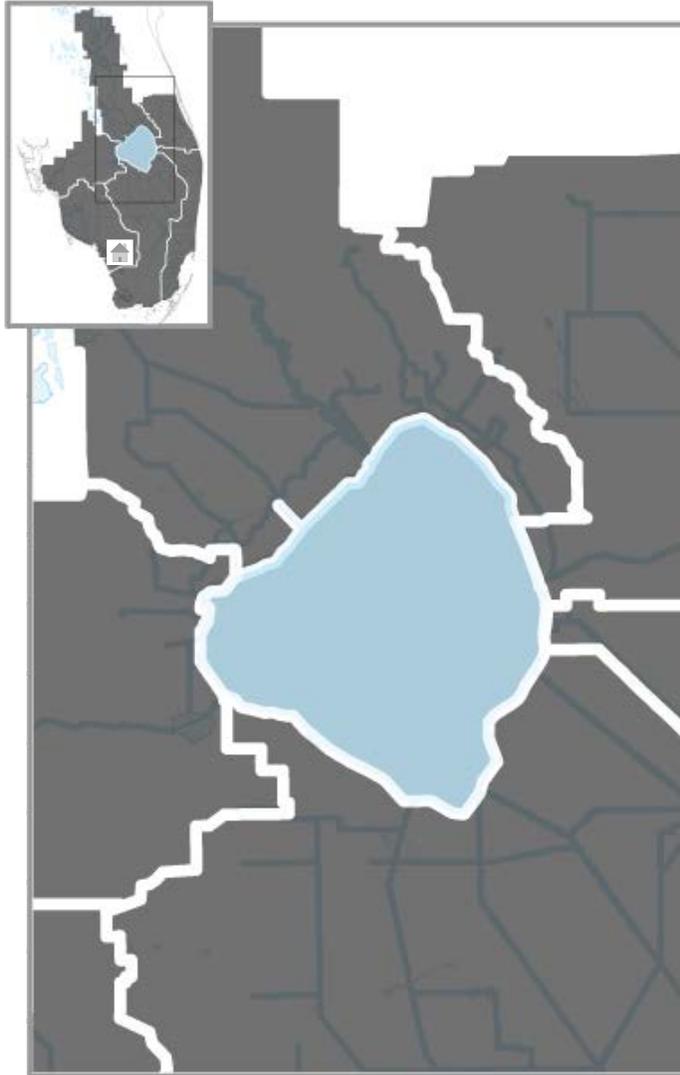
DISTRICT-WIDE: 8.16"

- 60% of average or -5.38"
- Only one rainfall area is near-average: Eastern Broward (+0.13" surplus)
- Largest deficit is for Upper Kissimmee at -8.39"



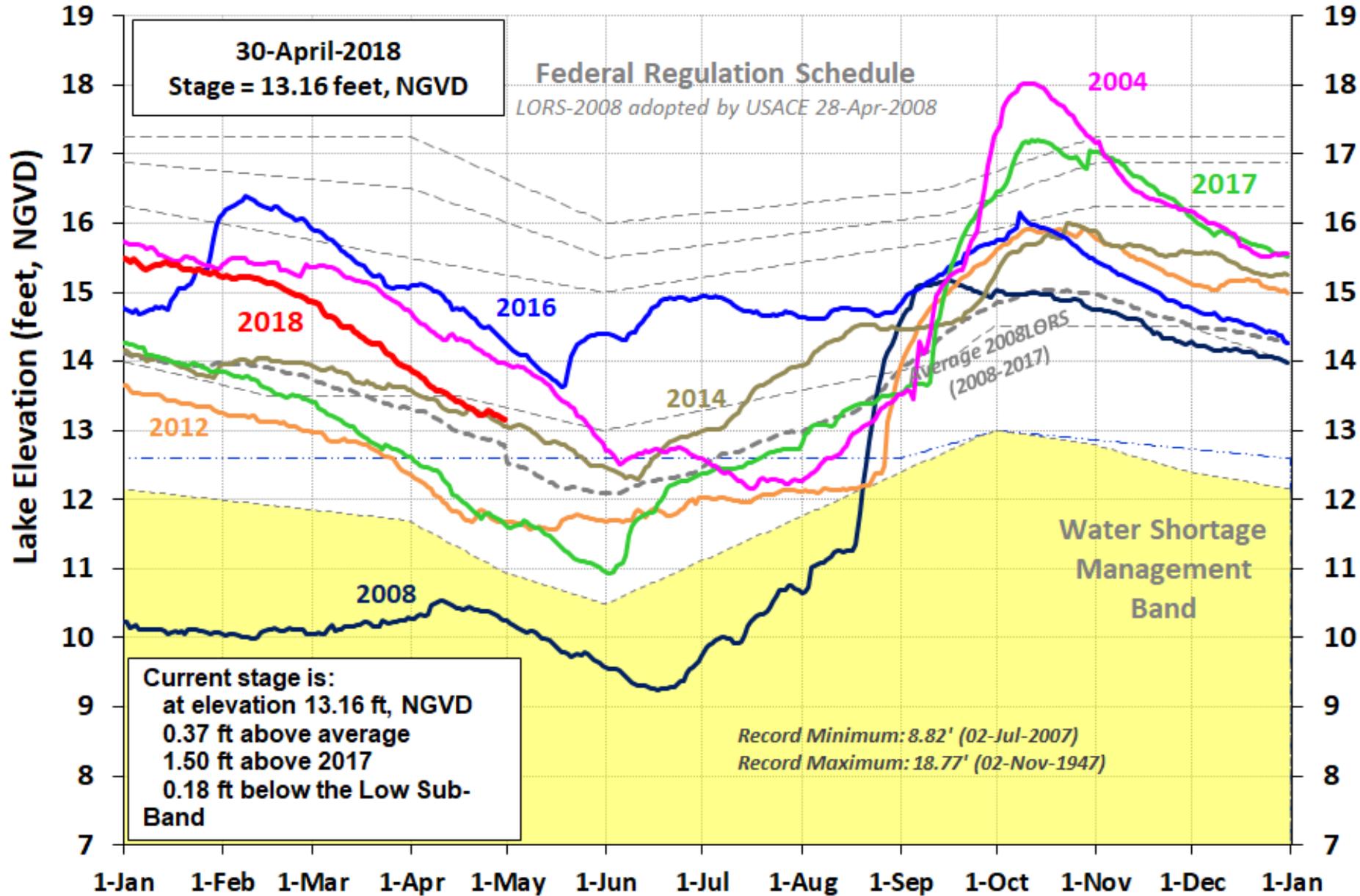


Lake Okeechobee Water Level

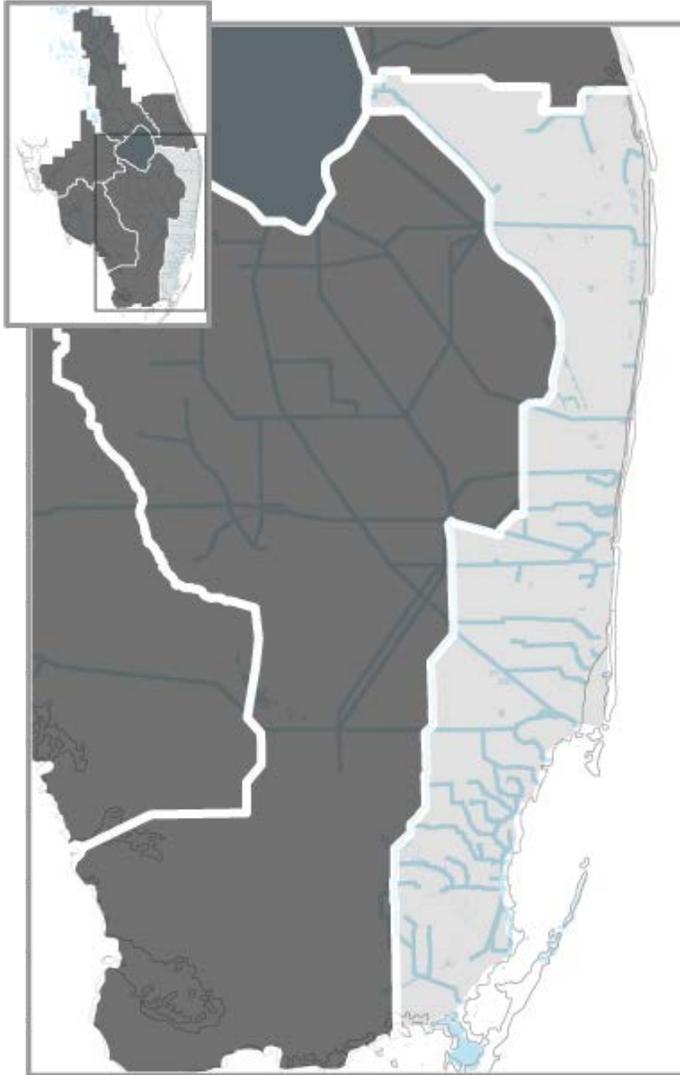


- Lake stage is 13.18 feet NGVD
- Lake level decreased about 0.7 feet during the preceding 30 days and 0.04 feet in the previous 7 days

Lake Okeechobee Water Level Comparison



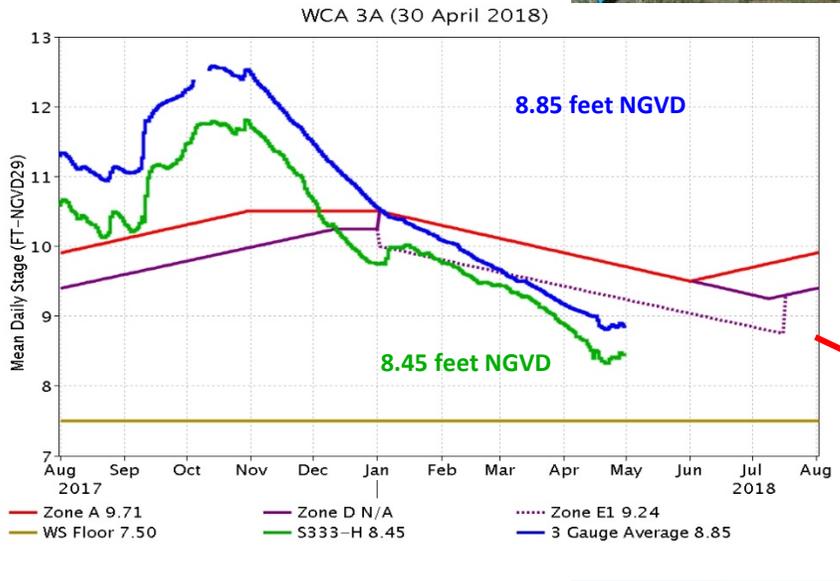
Lower East Coast



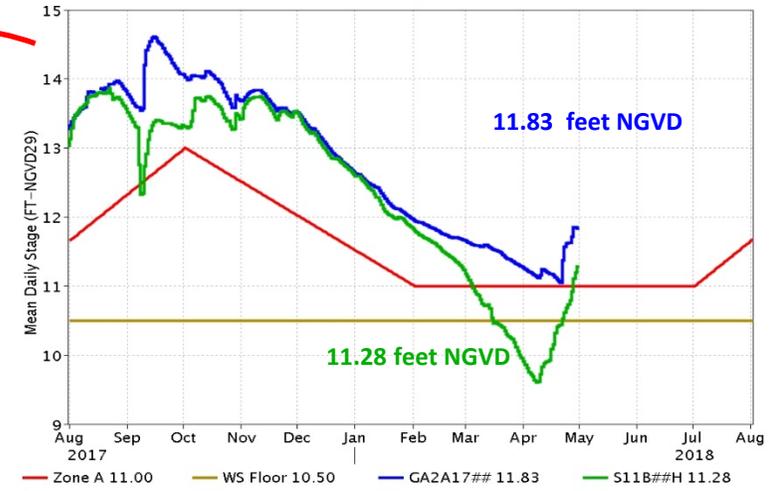
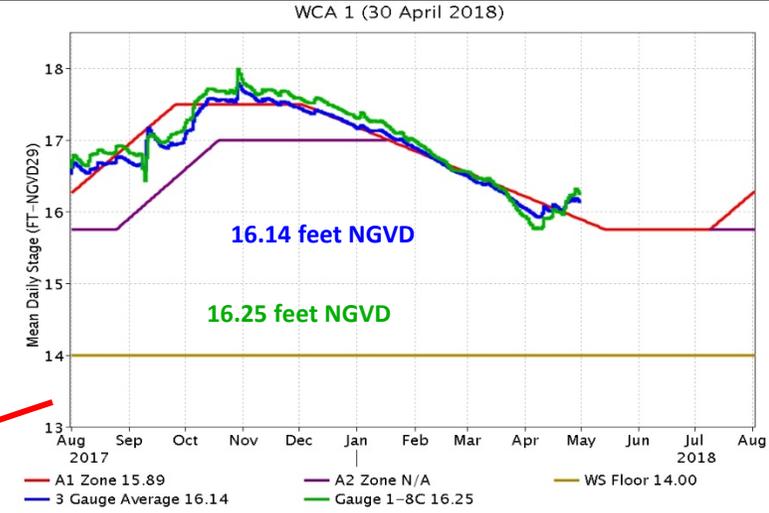
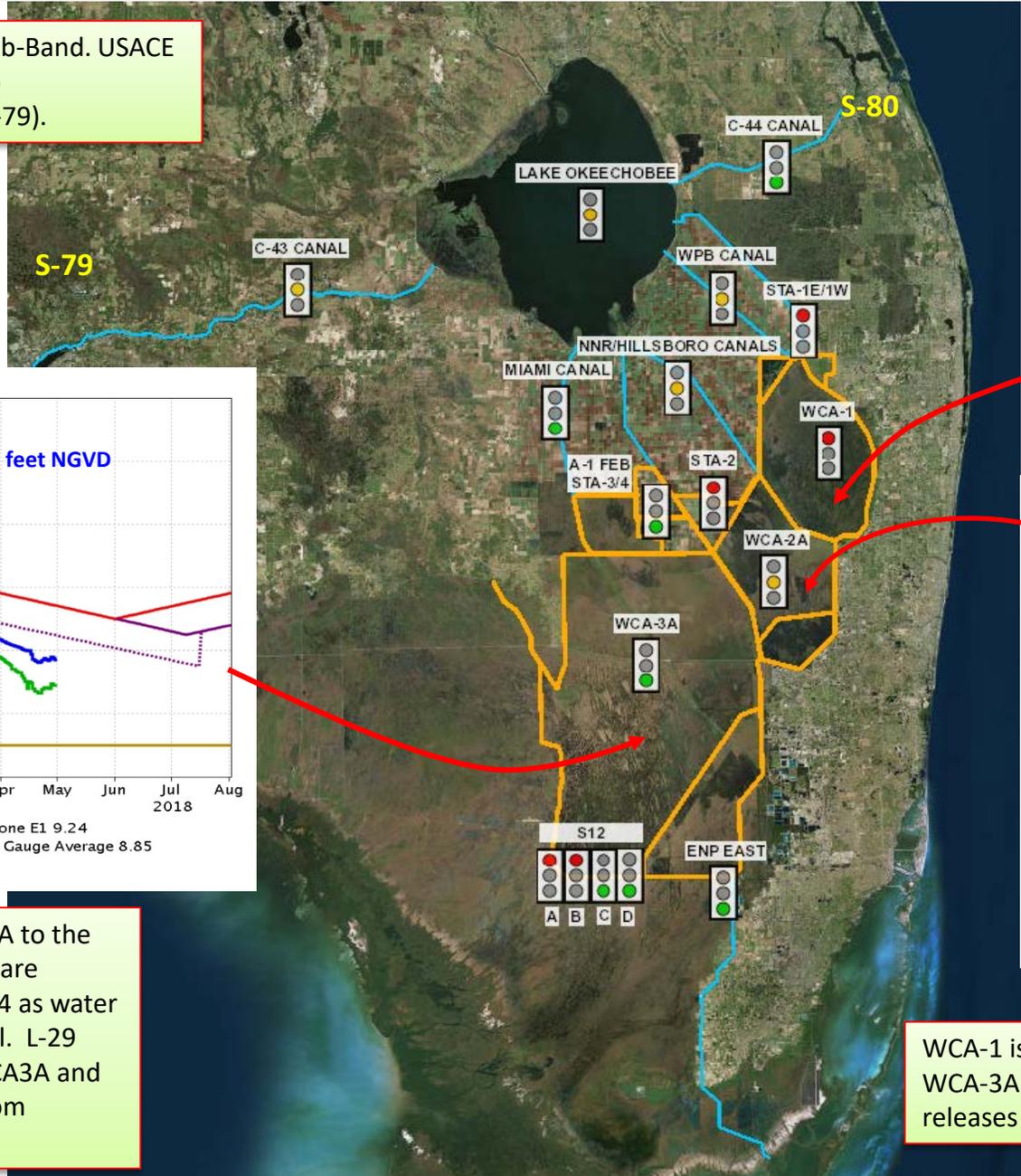
Operations

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

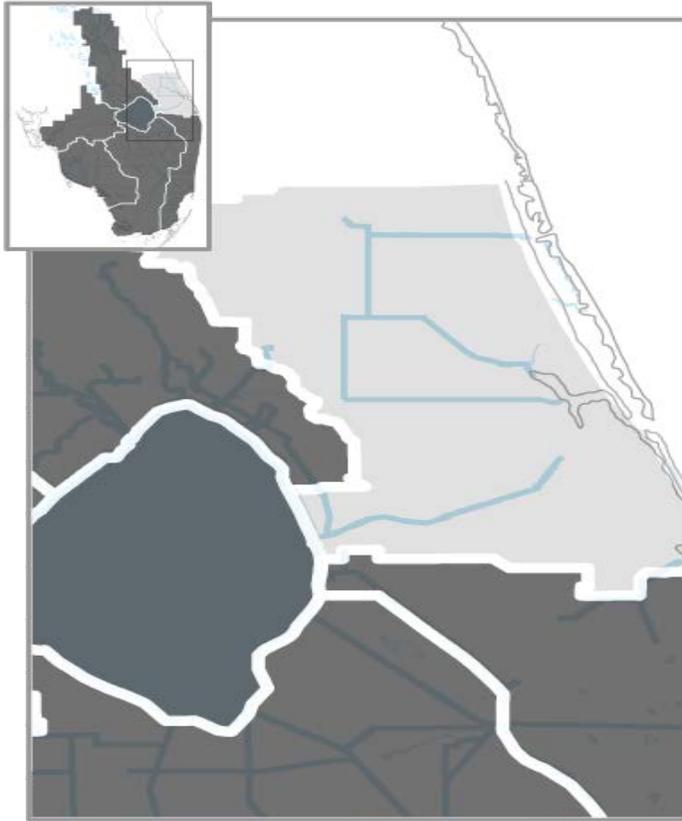
Lake Okeechobee stage is in the Base Flow Sub-Band. USACE currently implementing Base Flow releases to Caloosahatchee Estuary (650 cfs average at S-79).



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 ~ 325 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.

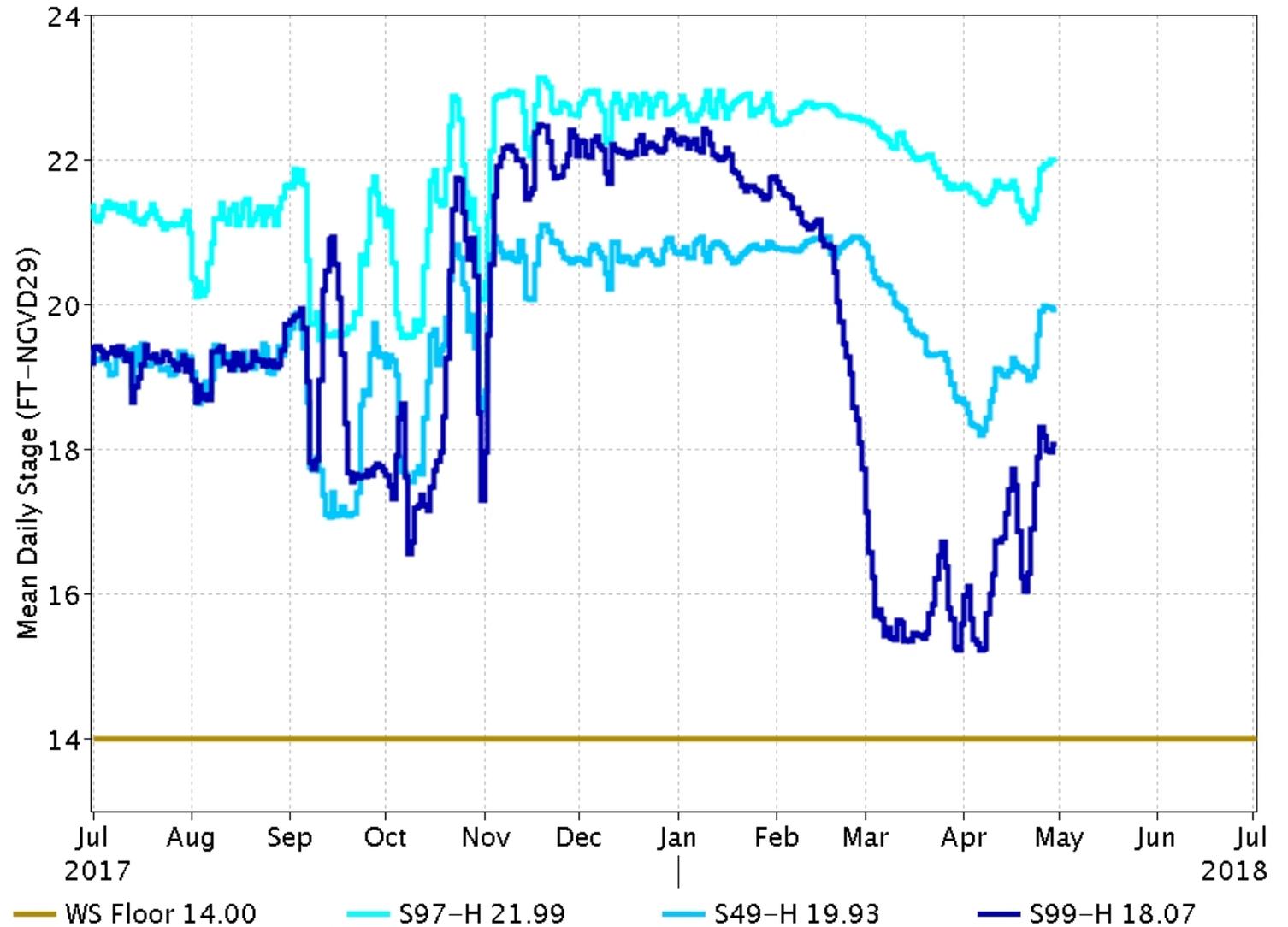


WCA-1 is above schedule; WCA-2A (S11B-HW) is above schedule; WCA-3A is below Zone E1, which results in no flood control releases from WCA-3A to ENP/SDCS.



Upper East Coast Water Levels

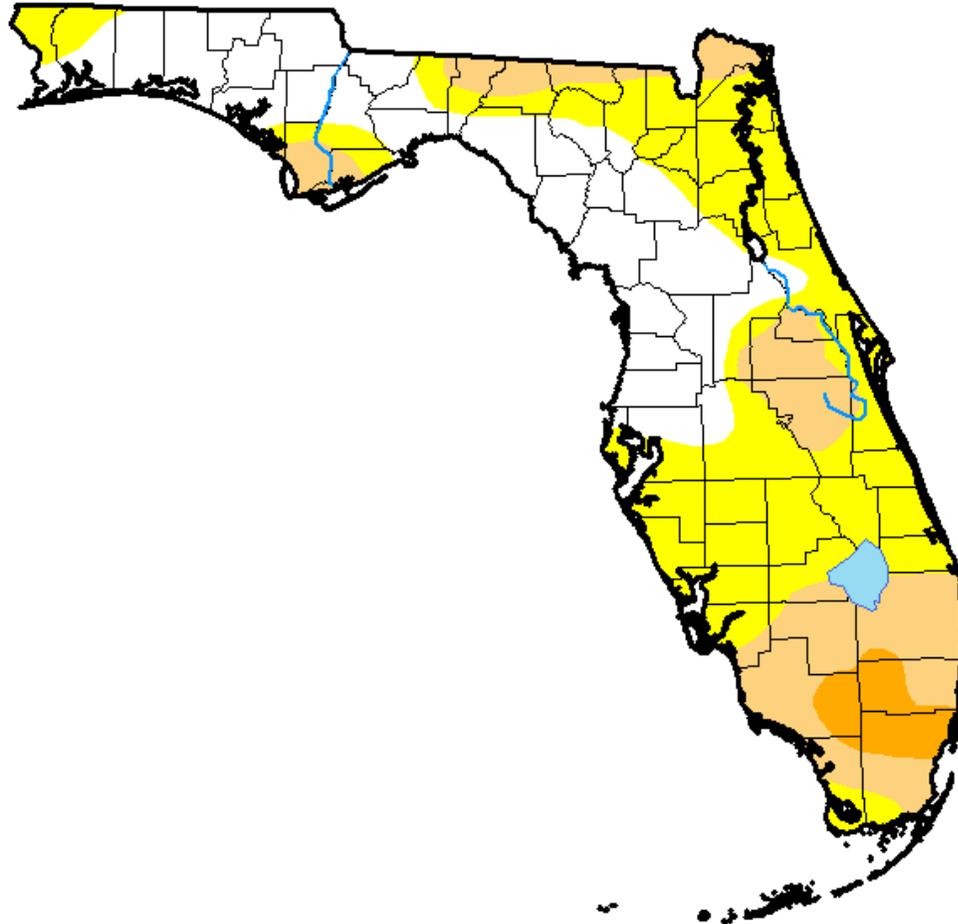
SAINT LUCIE STRUCTURES (29 April 2018)



- April rainfall is above average
- April rainfall has helped the canals to recover

**U.S. Drought Monitor
Florida**

April 3, 2018
(Released Thursday, Apr. 5, 2018)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	34.09	65.91	25.71	4.14	0.00	0.00
Last Week <i>03-27-2018</i>	39.71	60.29	19.20	0.00	0.00	0.00
3 Months Ago <i>01-02-2018</i>	72.59	27.41	22.39	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>04-04-2017</i>	32.37	67.63	42.41	13.01	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:

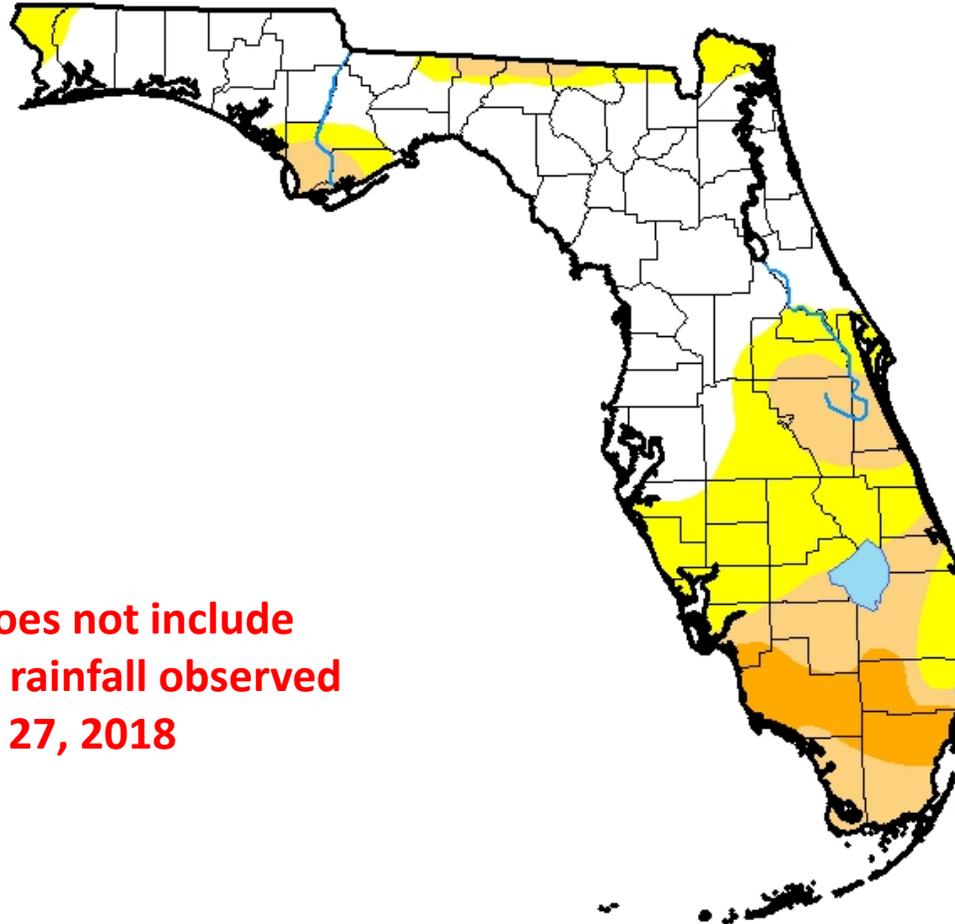
David Miskus
NOAA/NWS/NCEP/CPC



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

U.S. Drought Monitor Florida

April 24, 2018
(Released Thursday, Apr. 26, 2018)
Valid 8 a.m. EDT



**This figure does not include
The effect of rainfall observed
around April 27, 2018**

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	50.77	49.23	25.06	6.77	0.00	0.00
Last Week <i>04-17-2018</i>	51.02	48.98	28.05	4.34	0.00	0.00
3 Months Ago <i>01-23-2018</i>	70.73	29.27	24.21	17.37	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>04-25-2017</i>	23.50	76.50	57.43	33.45	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.

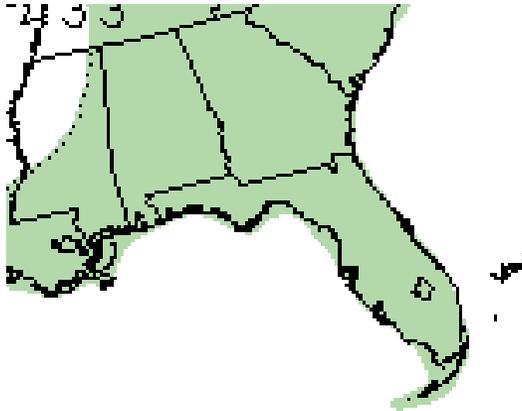
Author:

Brad Rippey
U.S. Department of Agriculture



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

CPC Precipitation Outlook

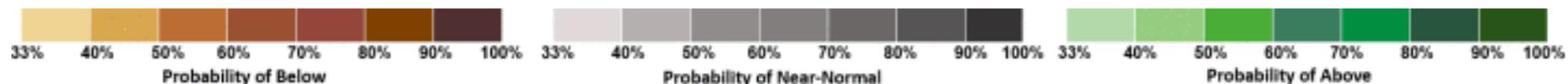


May 2018



Jun-Aug and Jul-Sep 2018

- The outlook for May 2018 is for ~37% above average. The outlook for 3-month windows Jun-Aug and Jul-Sep 2018 is for ~37% above average north of the lake and ~45% above average south of the lake. All other 3-month windows have an Equal Chances of Above-Normal, Normal and Below-Normal outlook





Questions