

Water Conditions Summary

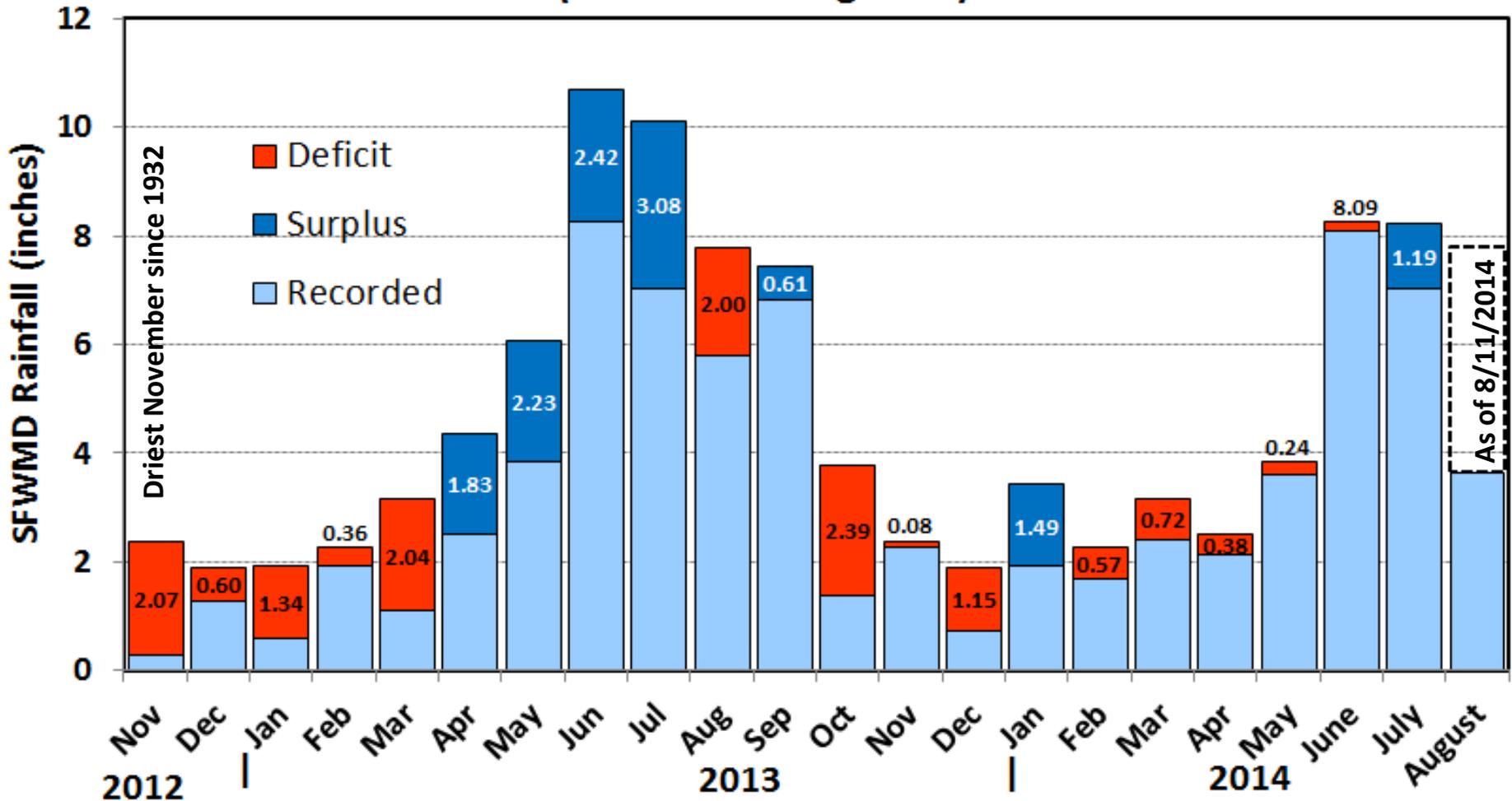
South Florida Water Management District Governing Board Meeting

August 14, 2014

Jeff Kivett, PE, Division Director
Operations, Engineering & Construction
South Florida Water Management District

SFWMD Rainfall Distribution Comparison

(Nov 2012 - Aug 2014)



2012-13 DRY SEASON:

- Driest November since 1932
- Below average despite April/May being above

2013 WET SEASON:

- May 18th Start
- Oct 8th End
- Slightly above average

2013-14 DRY SEASON:

- January above average
- Dry Season - 92% of average

2014 WET SEASON:

- May 27th Start

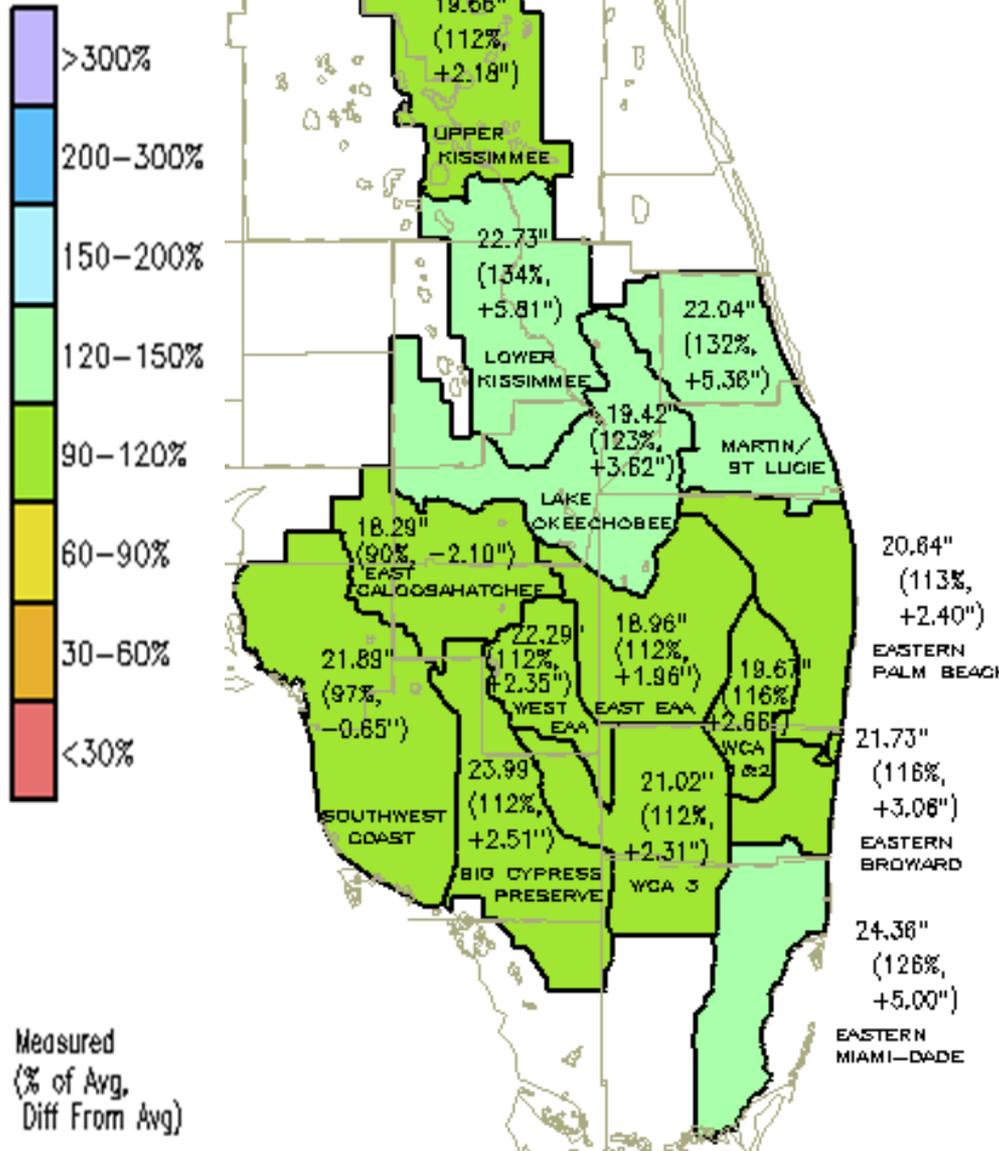
SFWMD

Wet Season Rainfall (to date)

May 27 – Aug 11, 2014

DISTRICT-WIDE: 21.14"
(114% of Avg, or +2.90")

- Above-average rainfall in all of the District but two
- Southwest Coast is 97% average rainfall
- Caloosahatchee basin is 90% average rainfall



Kissimmee Lakes at or slightly above regulation schedule.

District wide rainfall above average for July 2014

Lake O water levels continue rising. Lake stage transitioned into the Low Sub-band by the middle of July. USACE started 10-day pulse releases. Caloosahatchee River at S-79 1500 cfs, and St. Lucie at S-80 0 cfs, respectively average for 10-day pulse.

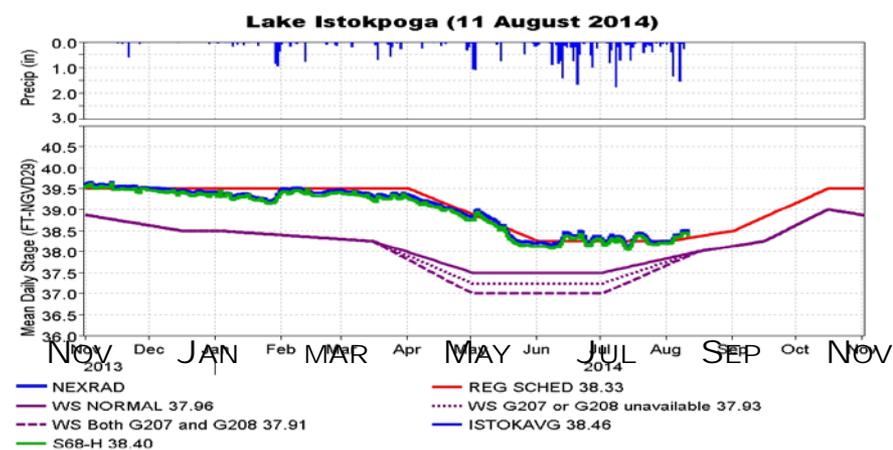
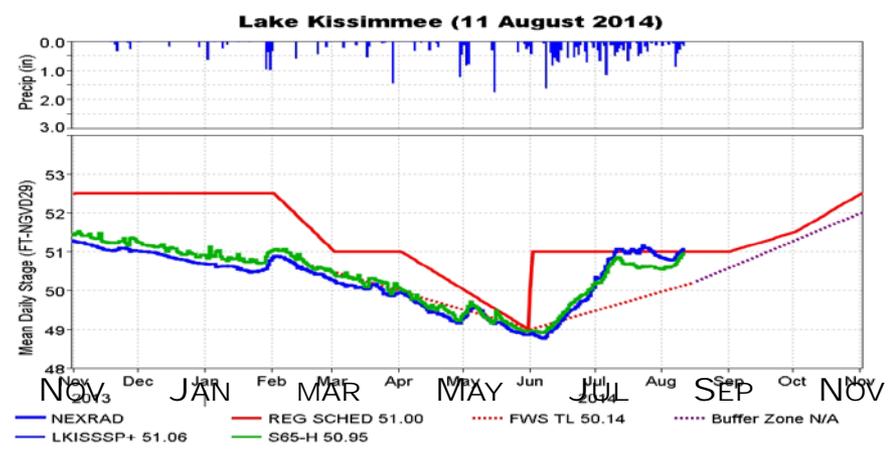
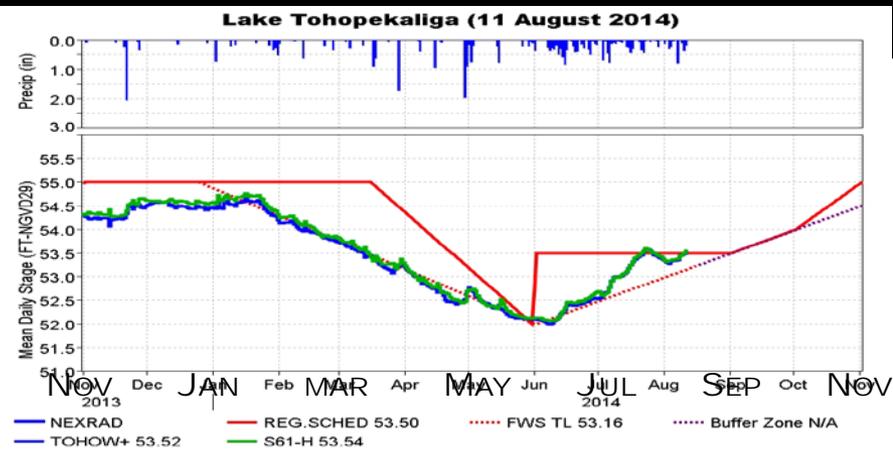
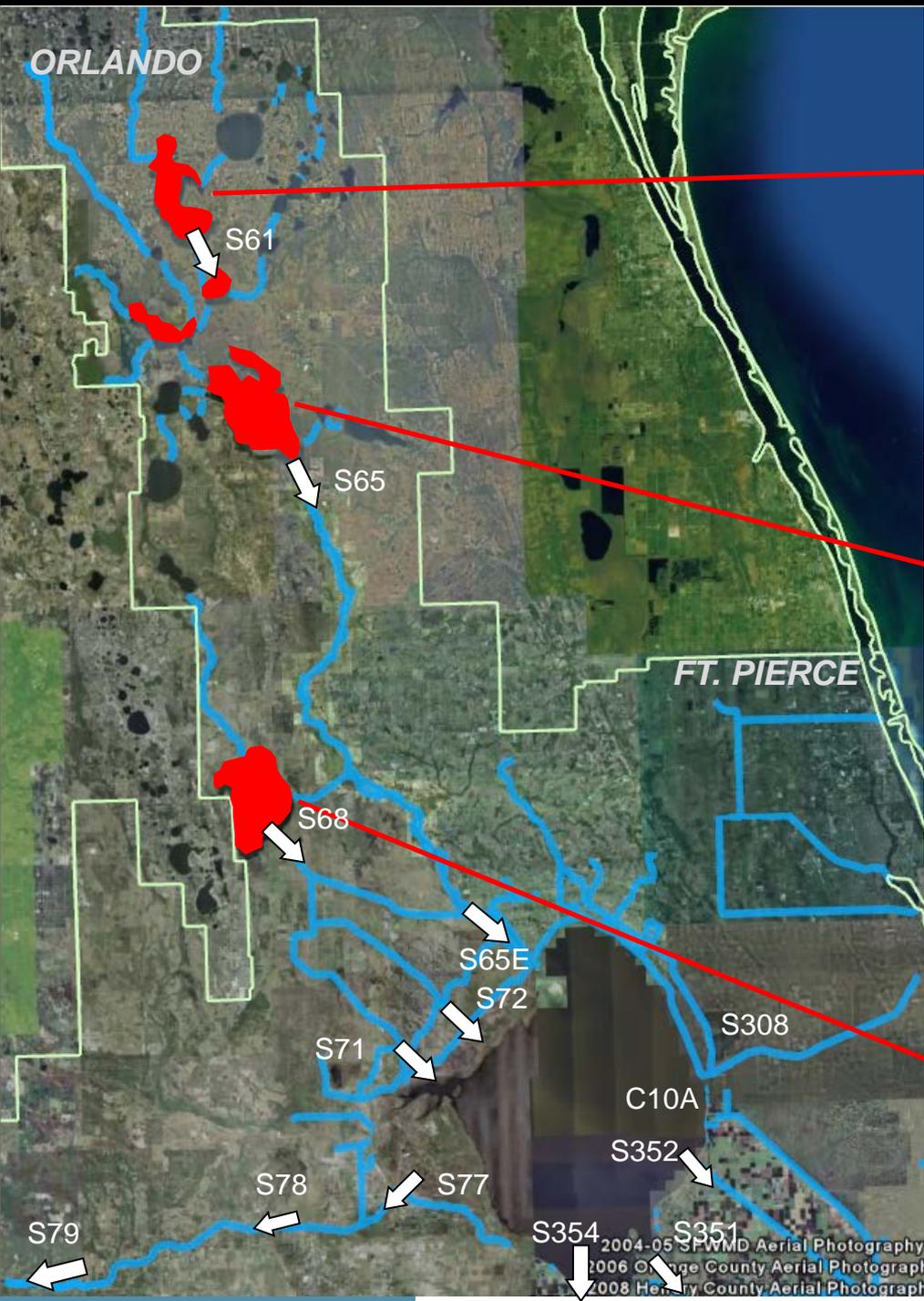
WCA 1 and 2 at and above schedule, respectively. WCA-3A is rising rapidly into Zone A. USACE making regulatory releases from all WCAs

Maximum practicable Lake O regulatory releases to WCAs through the STAs continue when capacity is available.

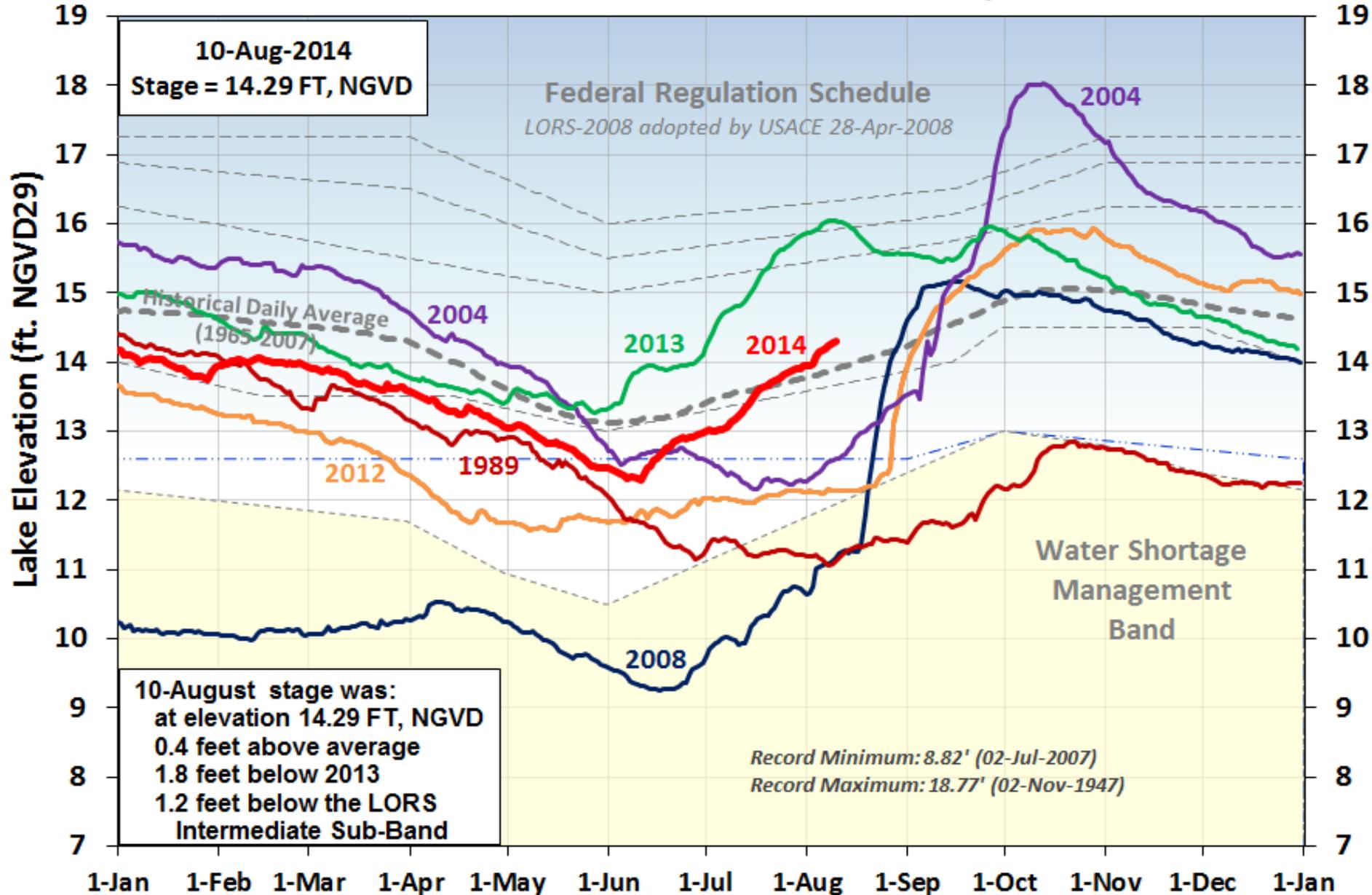
BCB area canals are currently in wet season operating criteria.

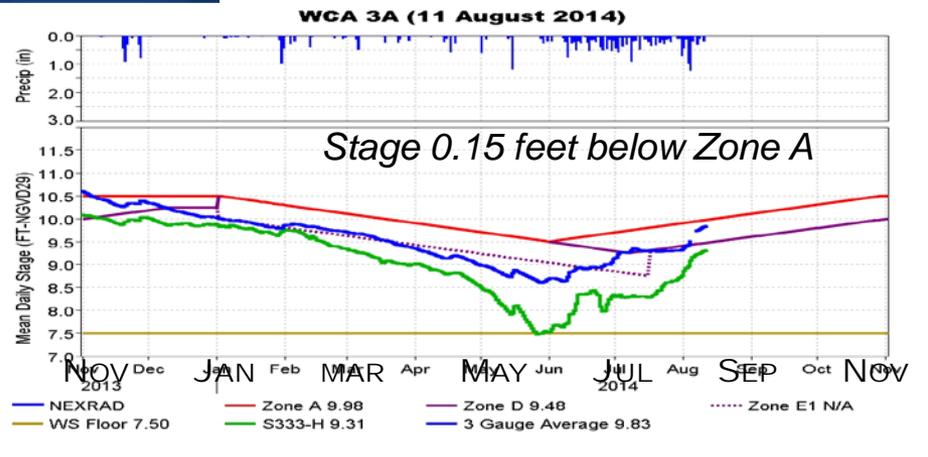
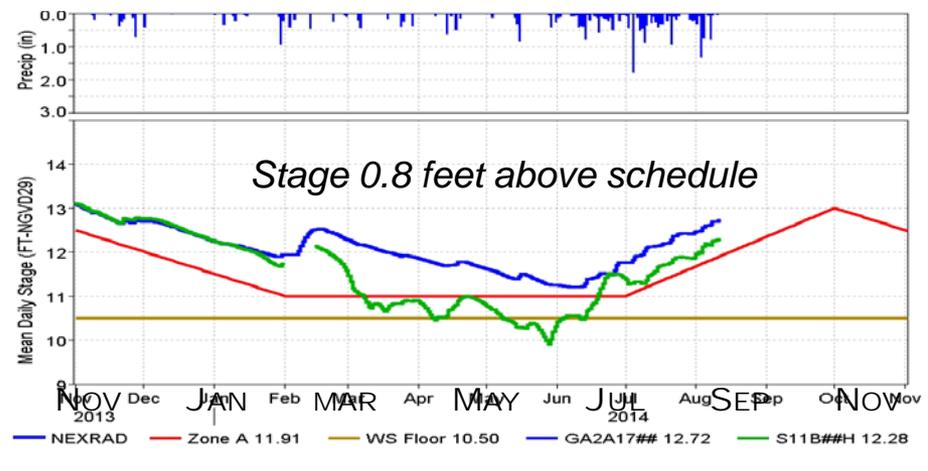
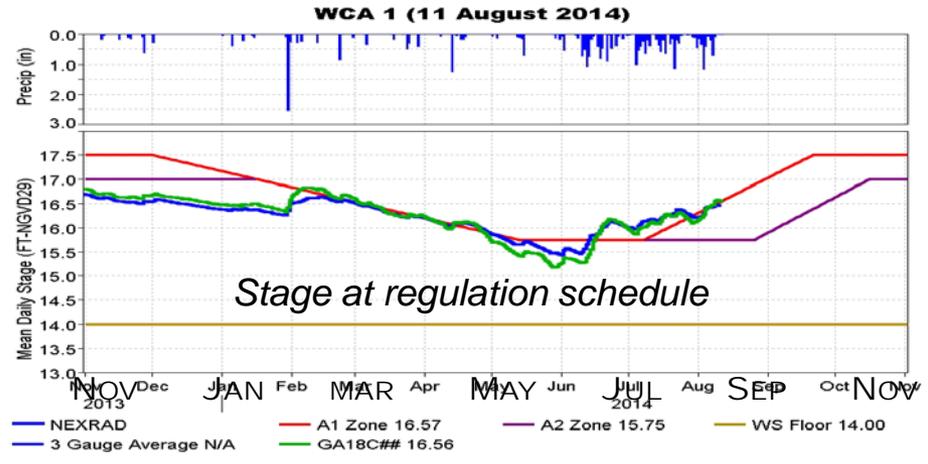
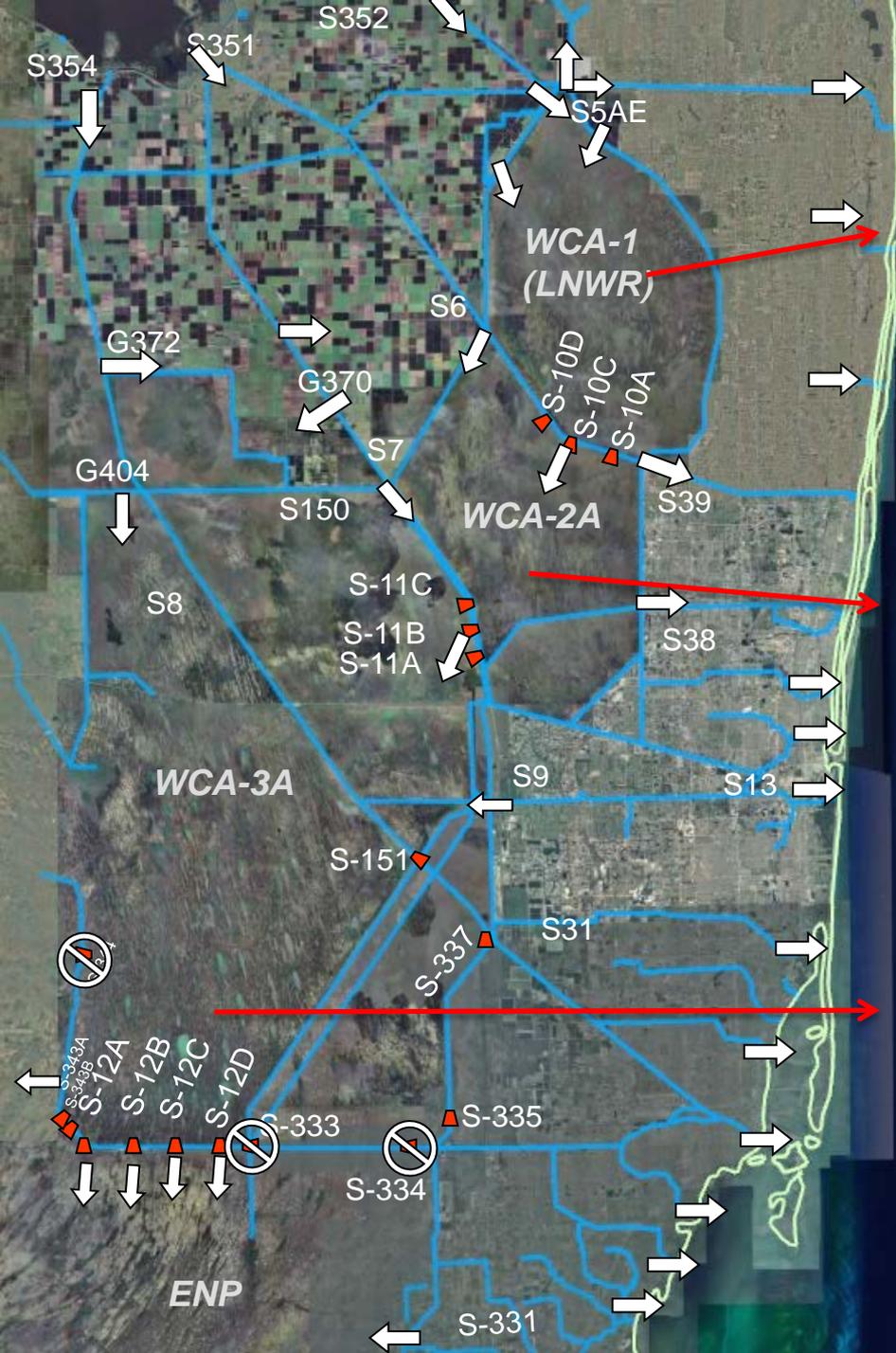
Proactively moving water through the WCAs. Most going to ENP and some to coastal canals. Flow was going to NESRS up to July 31 when G3273 reached 6.8 ft-NGVD.

Typical wet season discharge to tide from the Lower East Coast developed area



Lake Okeechobee Water Level Comparison

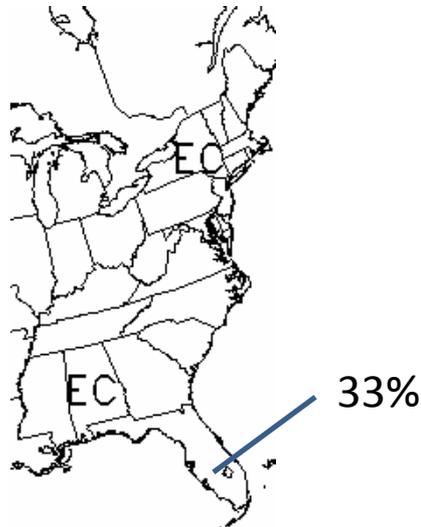




U. S. Seasonal Precipitation Outlook

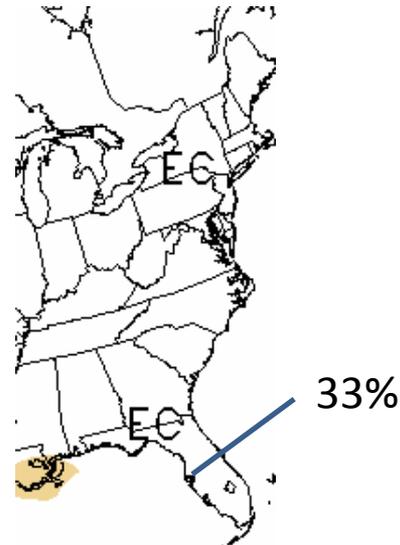
National Climate Prediction Center (CPC)

July 2014



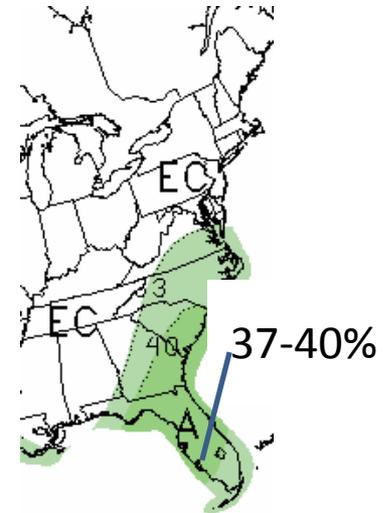
Posted 31-Jul-2014

Jul-Sep 2014



Posted 17-Jul-2014

Oct-Dec 2014



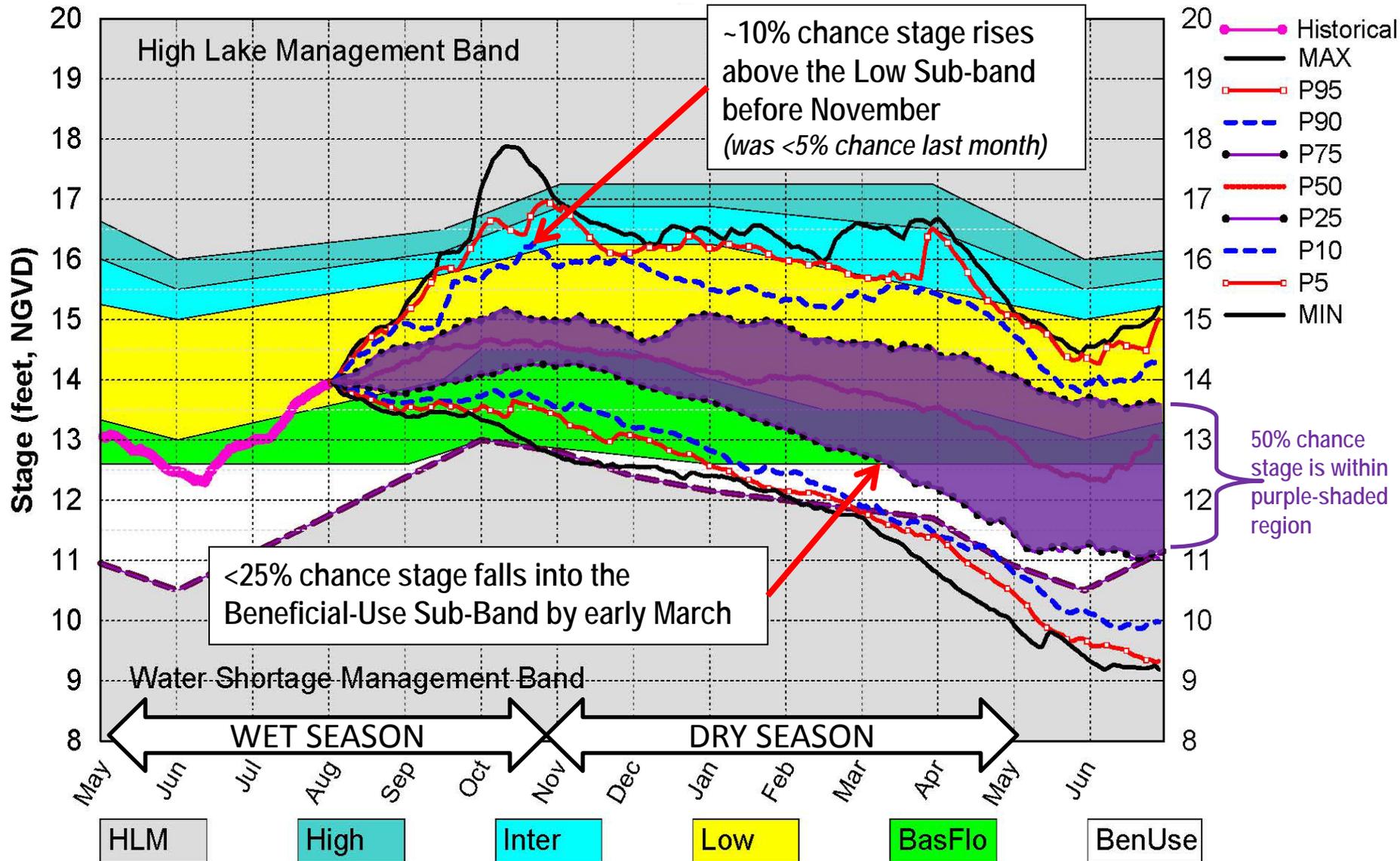
Posted 17-Jul-2014

The most-recent CPC precipitation outlooks for central & southern Florida indicate:

- Equal Chances (EC) for Above-Normal (A), Normal, and Below-Normal (B) rainfall for July and for the July-Sep period
- Increased chances for Above-normal (A) rainfall for all 3-month windows starting with September and ending with April 2015.

Lake Okeechobee SFWMM August 1, 2014 Dynamic Position Analysis

Percentiles based on 41 possible outcomes starting with July 1st initialization

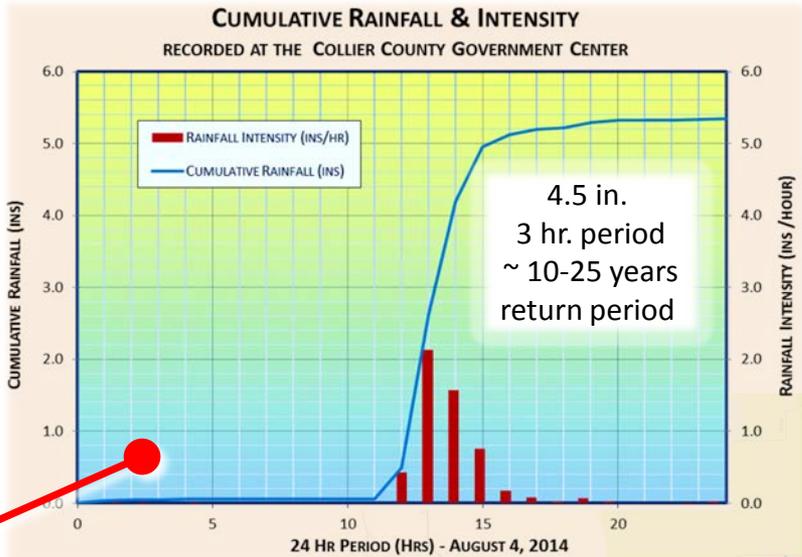
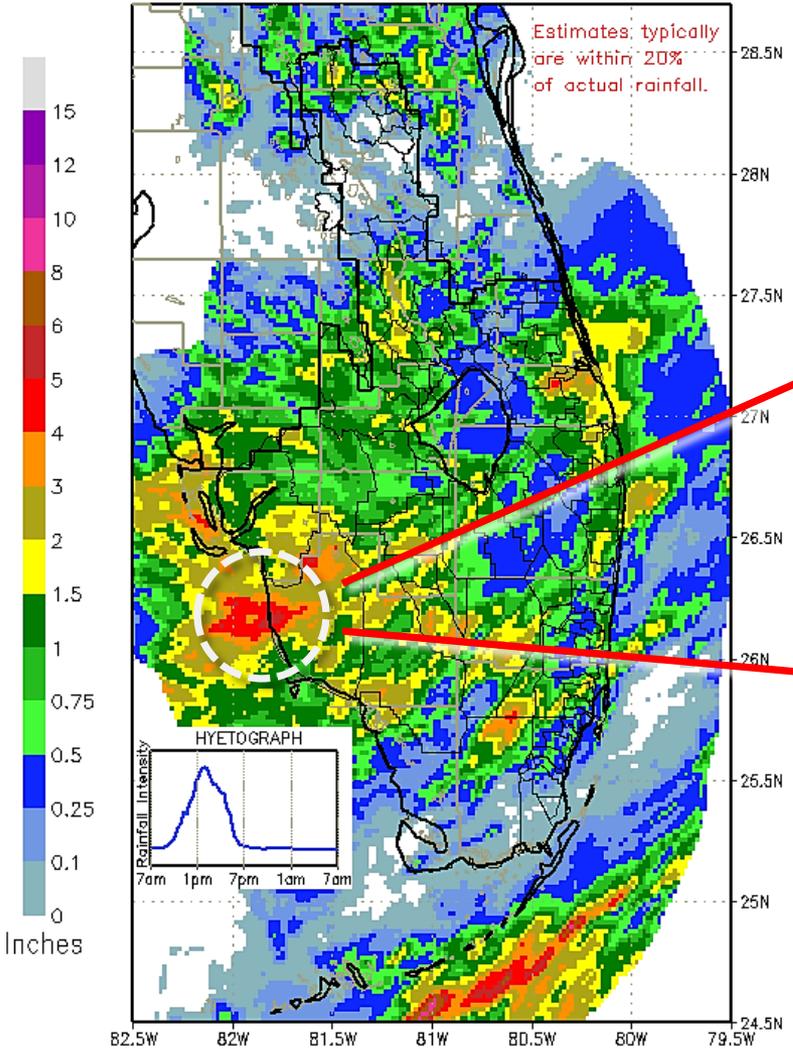


(See assumptions on the Position Analysis Results website)

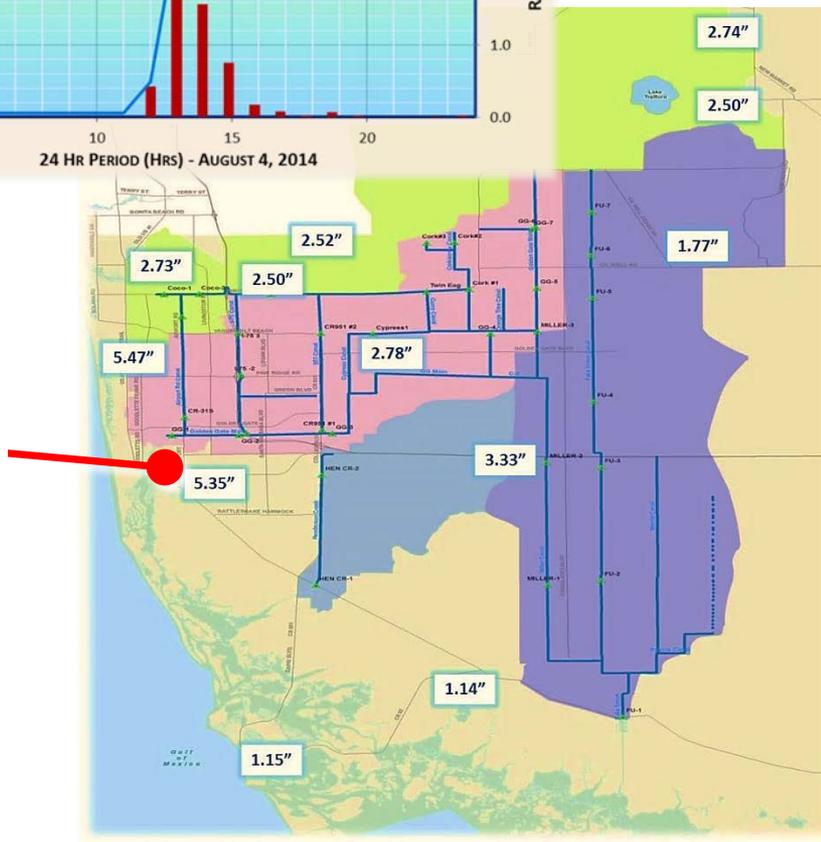
August 4, 2014 BCB Storm Event

SFWMD RAINDAR EOD DAILY RAINFALL ESTIMATES
 FROM: 0700 EST, 08/04/2014 THROUGH: 0700 EST, 08/05/2014

Estimates typically are within 20% of actual rainfall.



RECORDED RAINFALL AT SELECTED SITES OF THE BCB



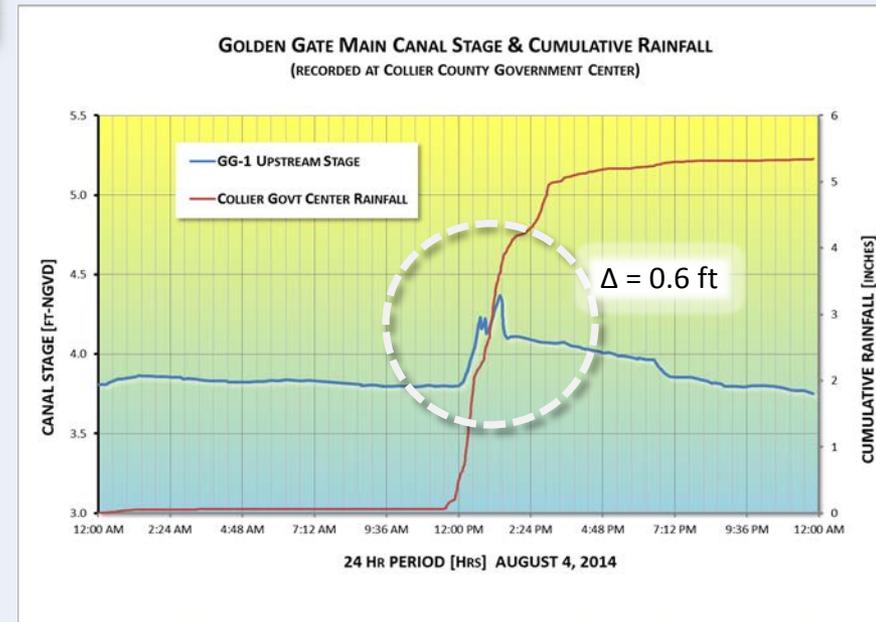
DISTRICT-WIDE RAINFALL ESTIMATE: 1.031"

August 4, 2014 BCB Storm Event



- ❑ NUMEROUS REPORTS OF ROADWAY AND URBAN FLOODING
- ❑ IMPACTS MOSTLY TO SECONDARY AND TERTIARY DRAINAGE SYSTEMS
- ❑ PRIMARY CANAL SYSTEM REMAINED FULLY FUNCTIONAL THROUGHOUT EVENT
 - GG MAIN STAGING WAS MODEST (< 8")
 - NO OVERFLOWING BANKS
 - OPERATIONAL CRITERIA MAINTAINED
 - RAPID RECOVERY (BY EARLY EVENING)

GOLDEN GATE MAIN CANAL
VIEW UPSTREAM OF GG1 OUTFALL



Questions?



Kissimmee River floodplain