

Water Conditions Summary

A photograph of a wetland area, likely a stormwater treatment area. The foreground is dominated by large, green, heart-shaped leaves of aquatic plants. The middle ground shows a body of water with numerous lily pads and tall reeds. In the background, there is a grassy field and a line of trees under a cloudy sky.

*Governing Board Meeting
July 10, 2008*

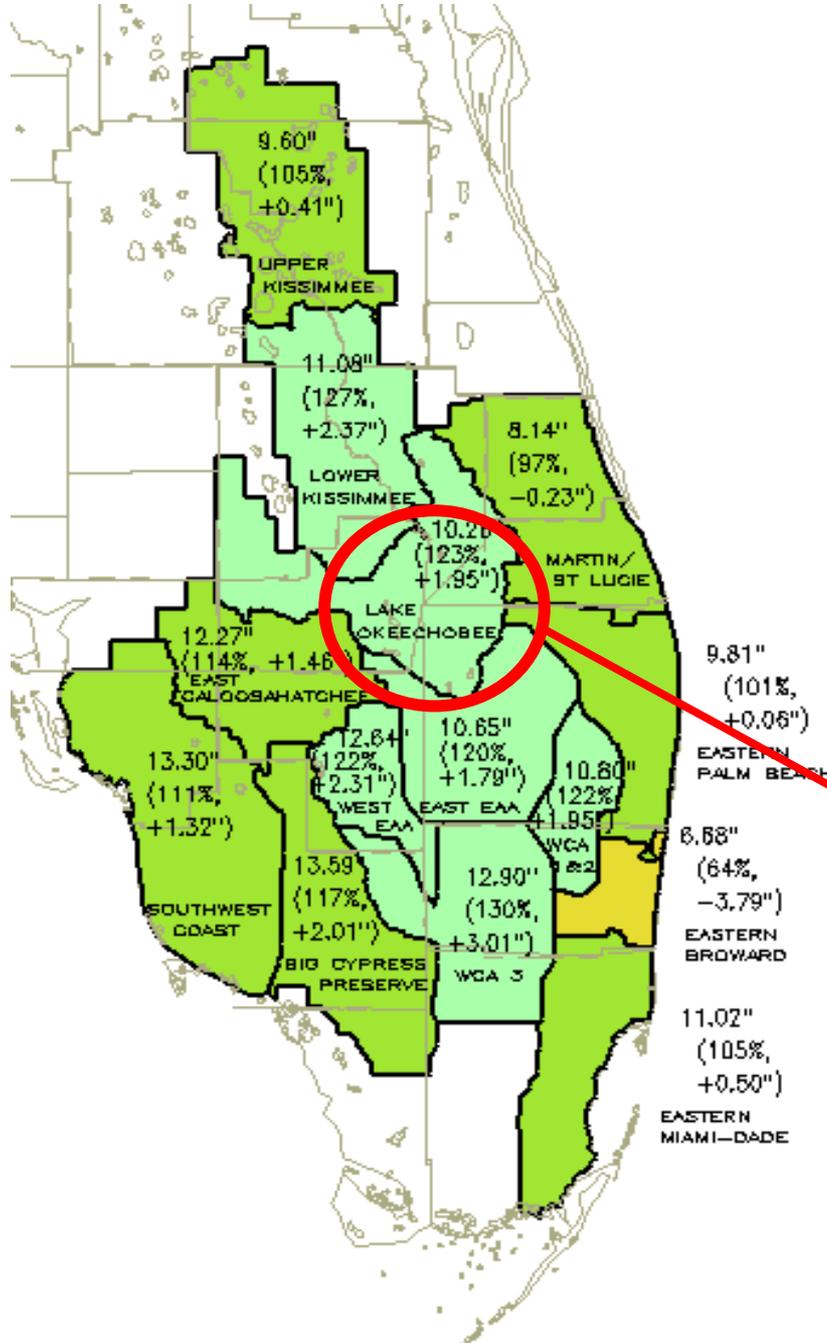
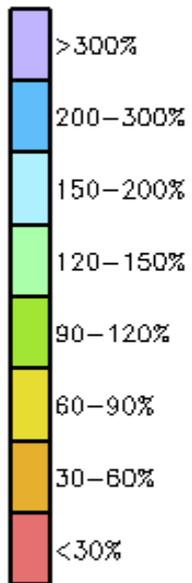
*Susan Sylvester, Director
Operations Control and Vegetation Management Department*

SFWMD 2008 Wet Season Rainfall 2 June – 9 July

**DISTRICT-WIDE:
11.14" (114%, +1.35")**

*On average, 20% of annual
(10.4") rainfall between the
Memorial Day & Independence
Day weekends*

Lake Okeechobee has
received 9.3" of direct
rainfall in the past 30
days.

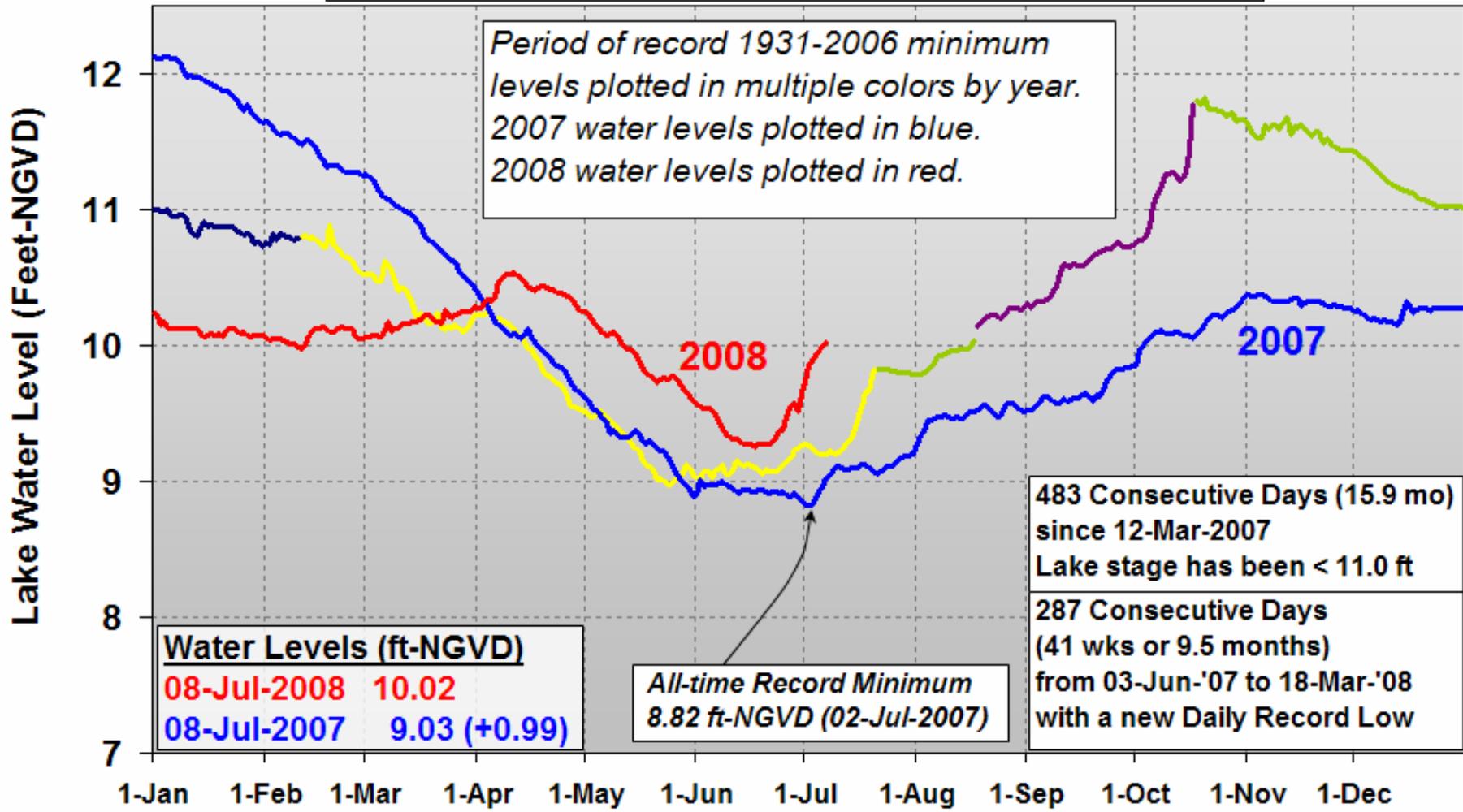


Measured
(% of Avg,
Diff From Avg)

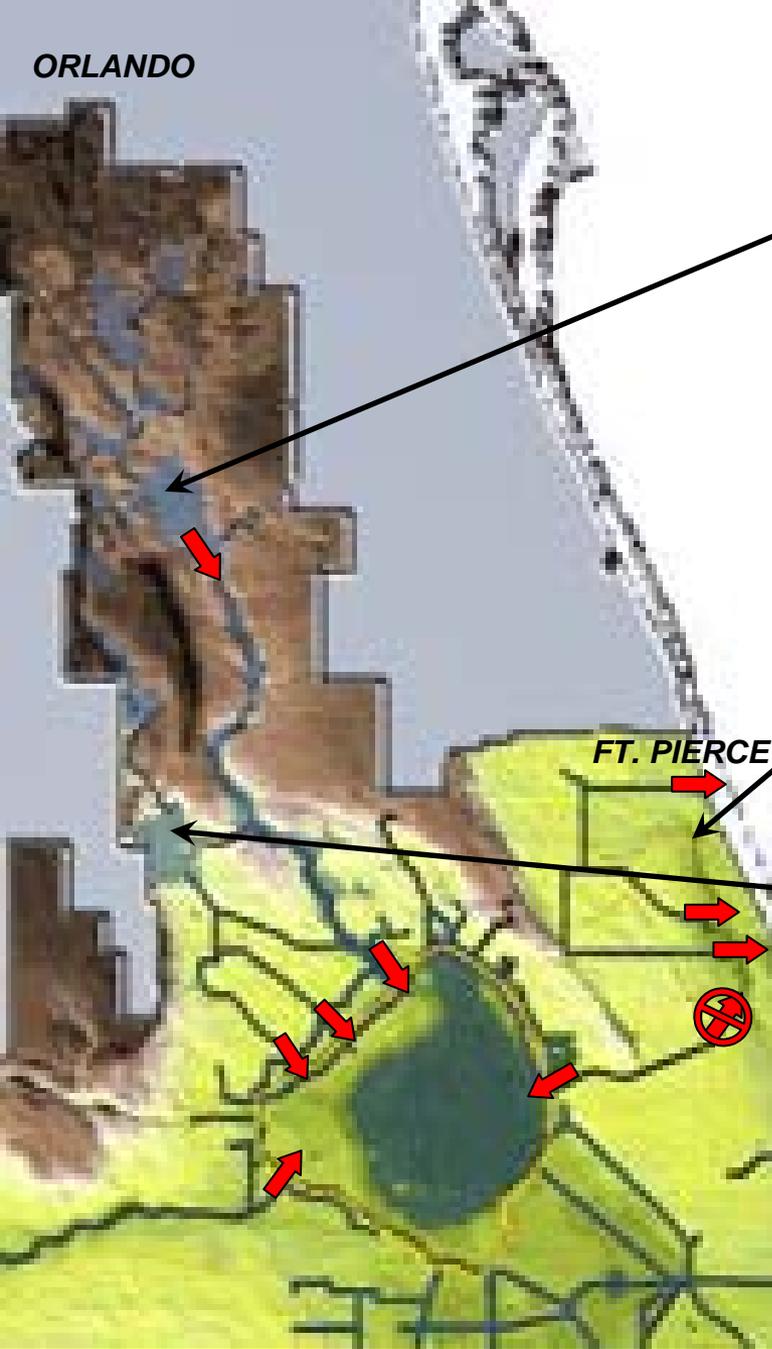
Lake Okeechobee

Period of Record 1931-2006 Minimum Water Levels

— 1956 — 1981 — 1982 — 2001 — 2007 — 2008



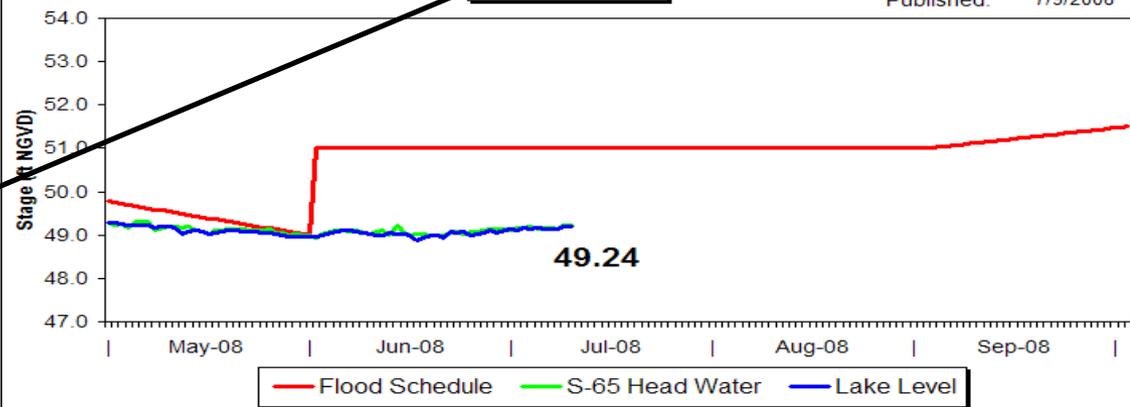
ORLANDO



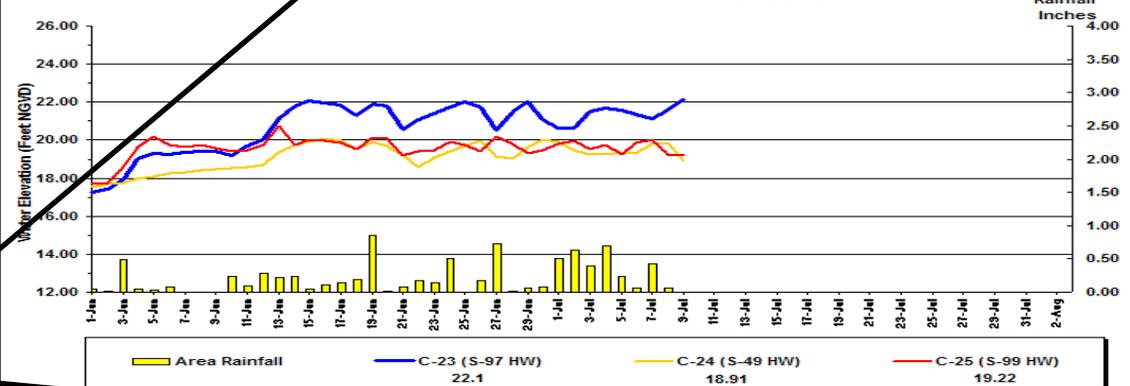
FT. PIERCE

Lake Kissimmee

Published: 7/9/2008

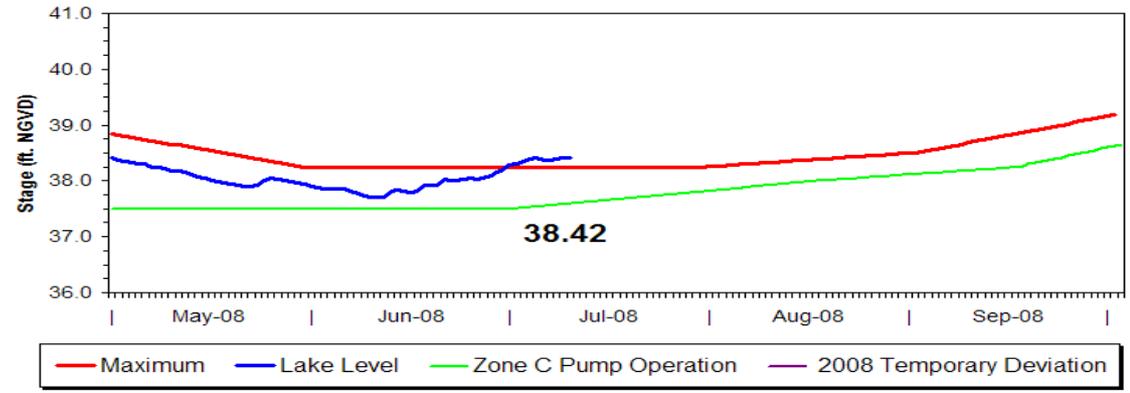


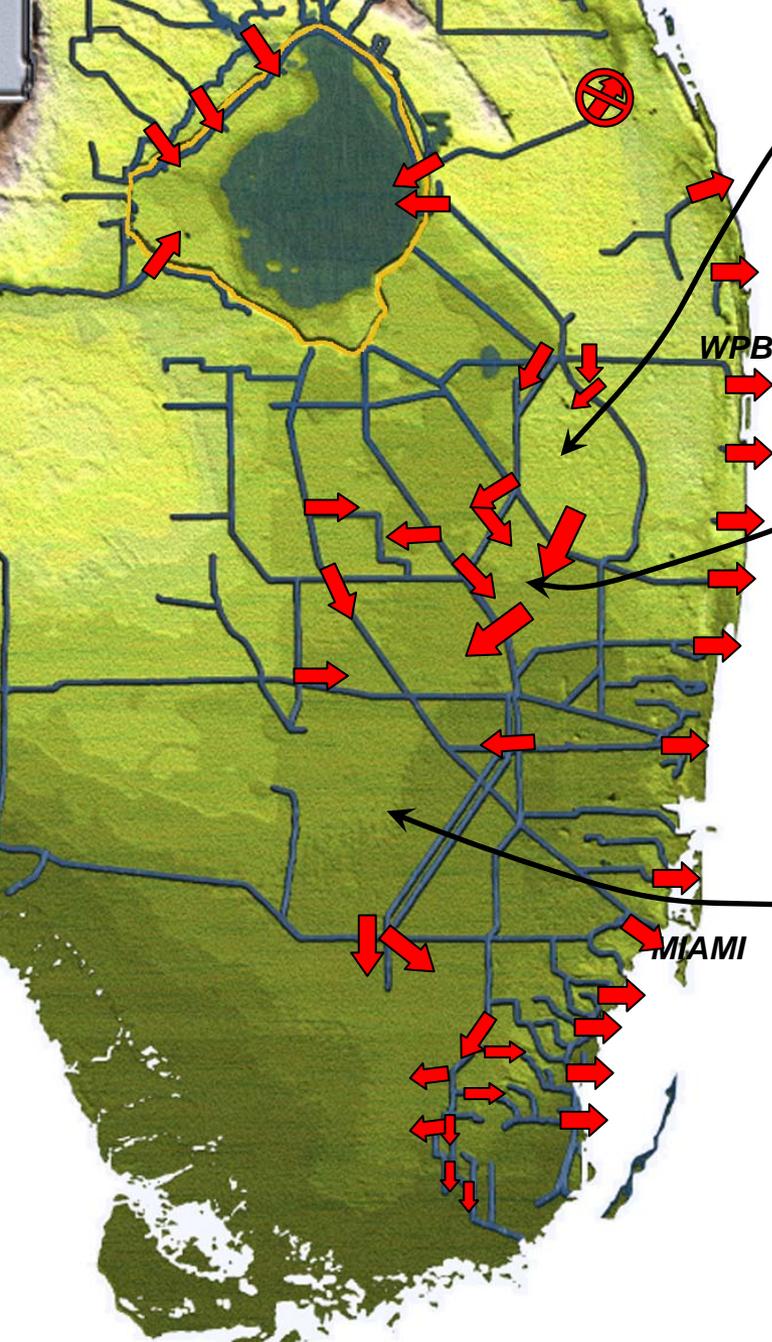
St Lucie Structures on C23, C24 & C25 Canals
Published: 07/09/08



Lake Istokpoga

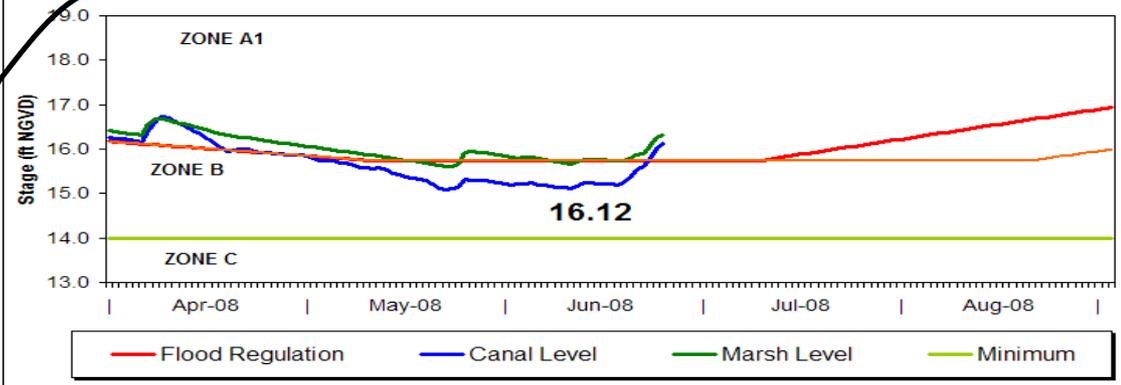
Published: 7/9/2008





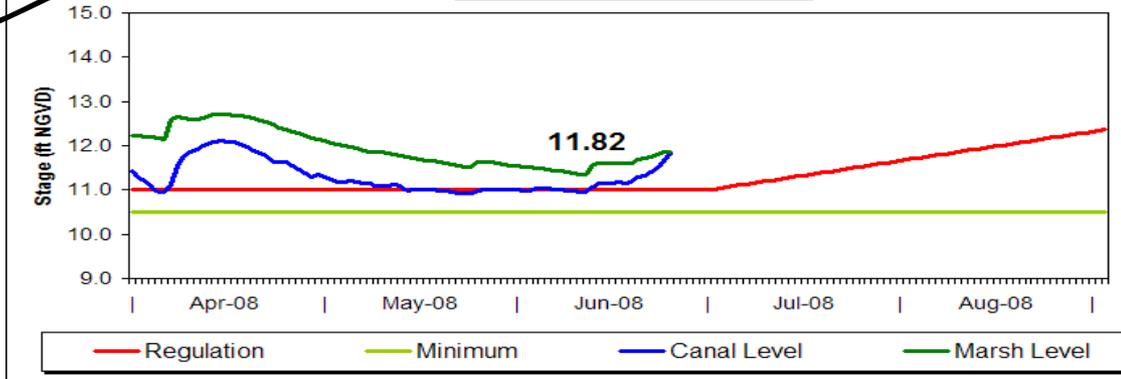
Water Conservation Area 1

Published: 06/24/2008



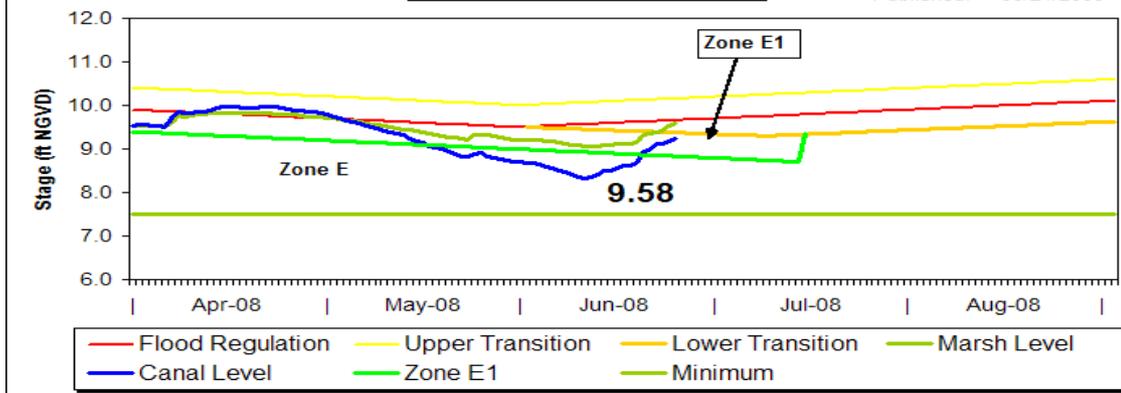
Water Conservation Area 2A

Published 06/24/2008



Water Conservation Area 3A

Published: 06/24/2008

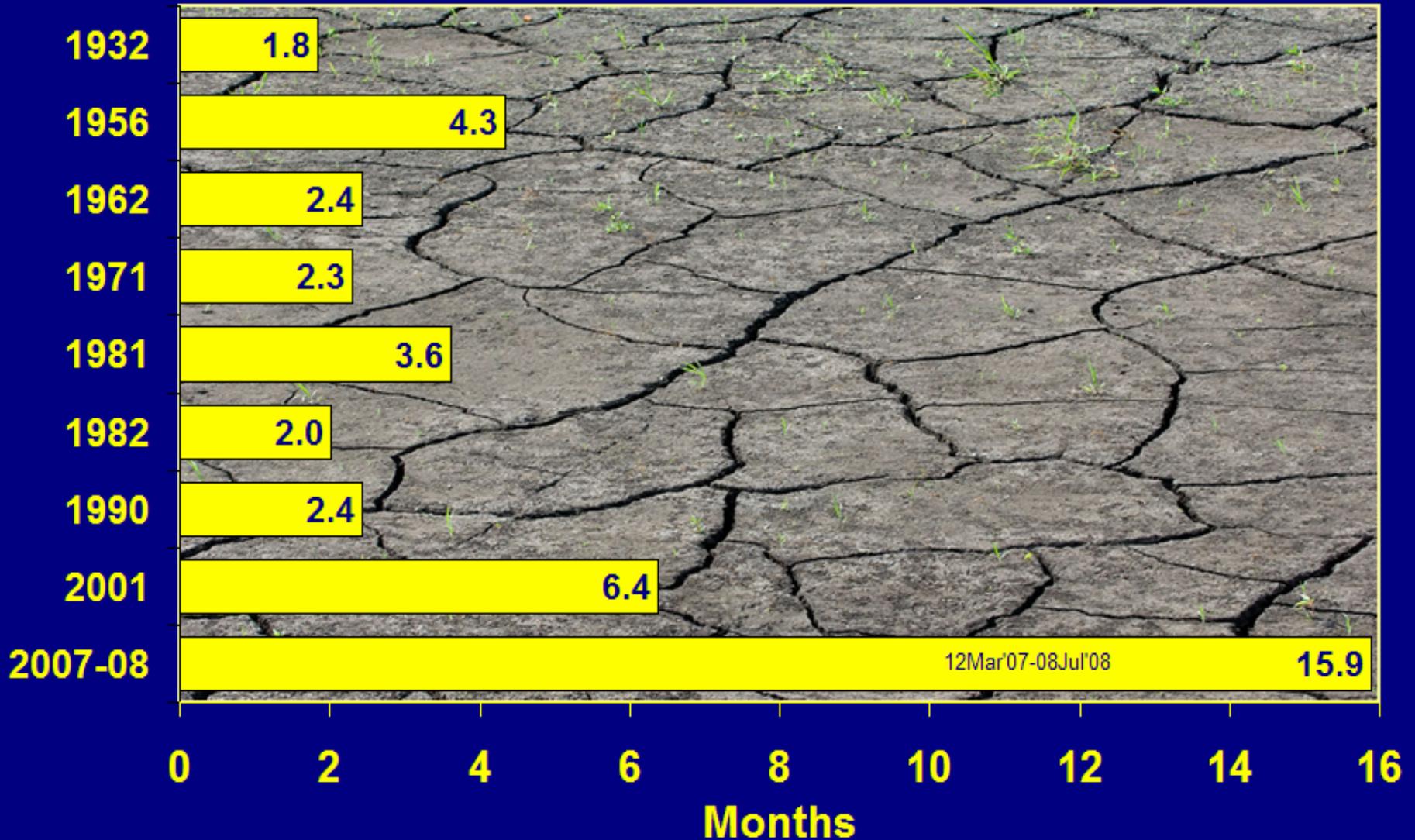


How will Lake Okeechobee stages behave during 2008?

- **Depends on rainfall**
- **Projections provided monthly by SFWMD Hydrologic and Environmental Systems Modeling (HESM) Department**
- **Position Analysis**
 - Each year starts with current hydrologic conditions
 - 41 1-yr simulations of system response to historical rainfall conditions
 - Statistical summaries used to provide projections

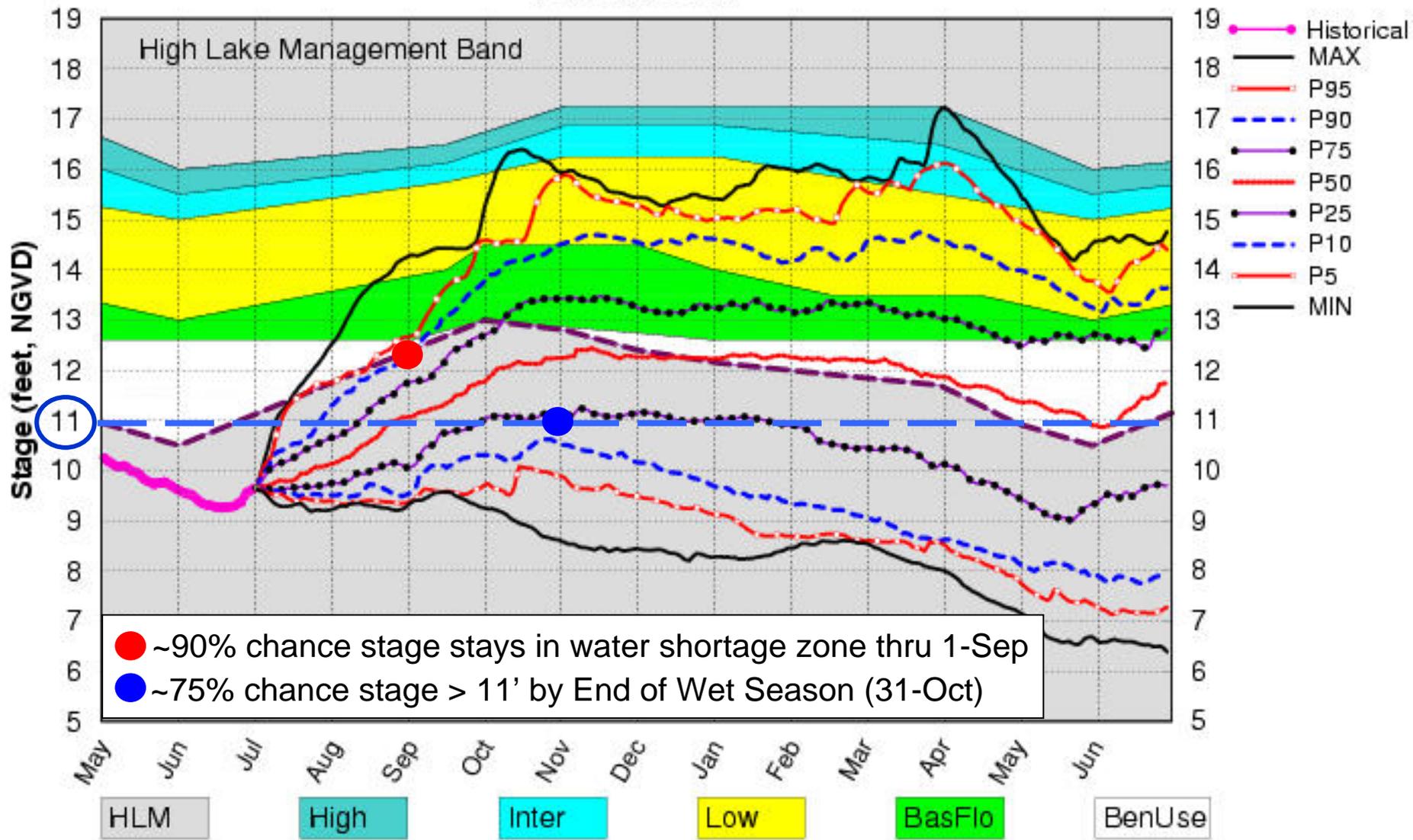
Lake Okeechobee

Duration Water Level was below 11.0 feet, NGVD



Lake Okeechobee SFWMM July 2008 Position Analysis

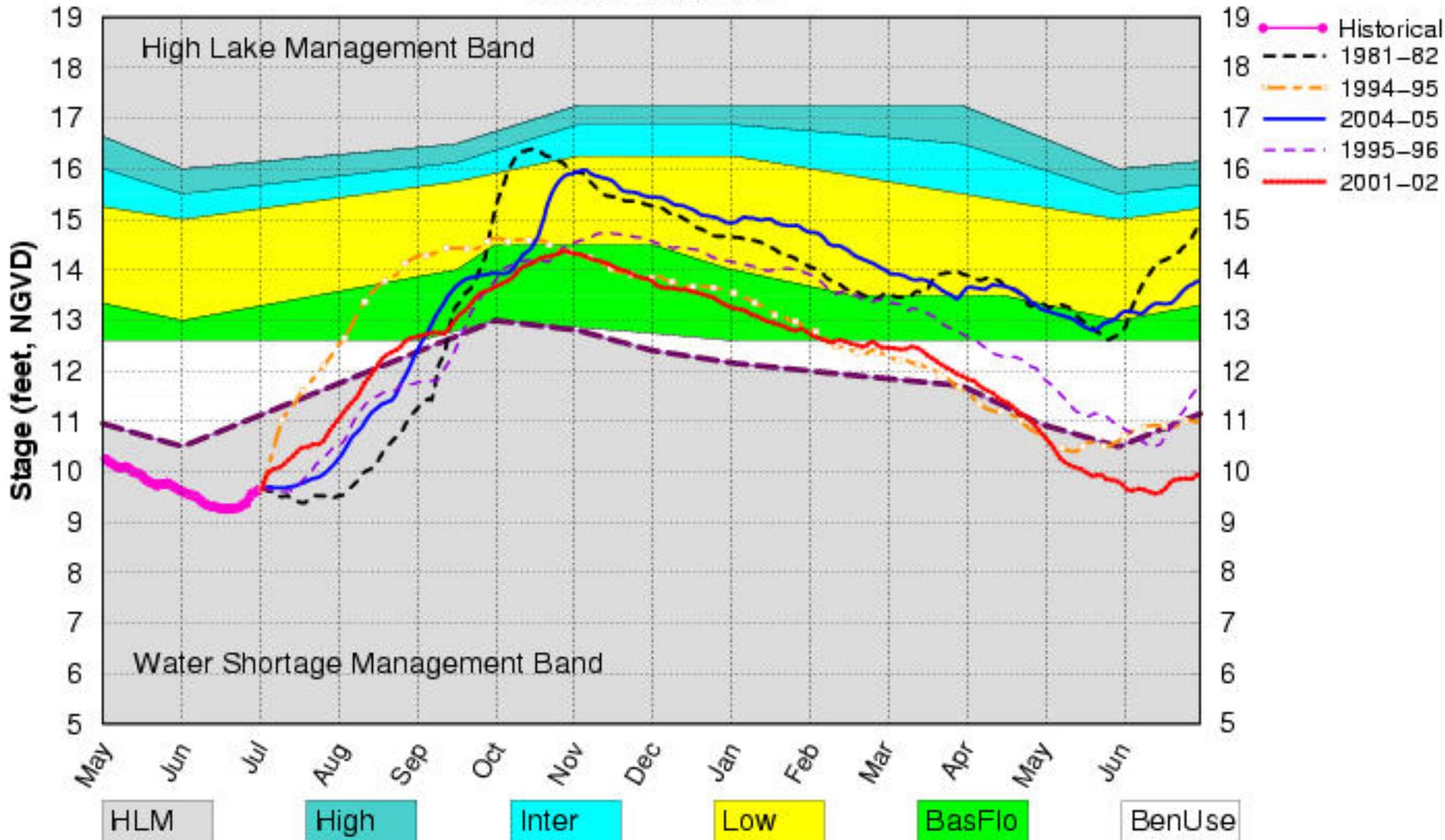
Percentiles PA



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM July 2008 Position Analysis

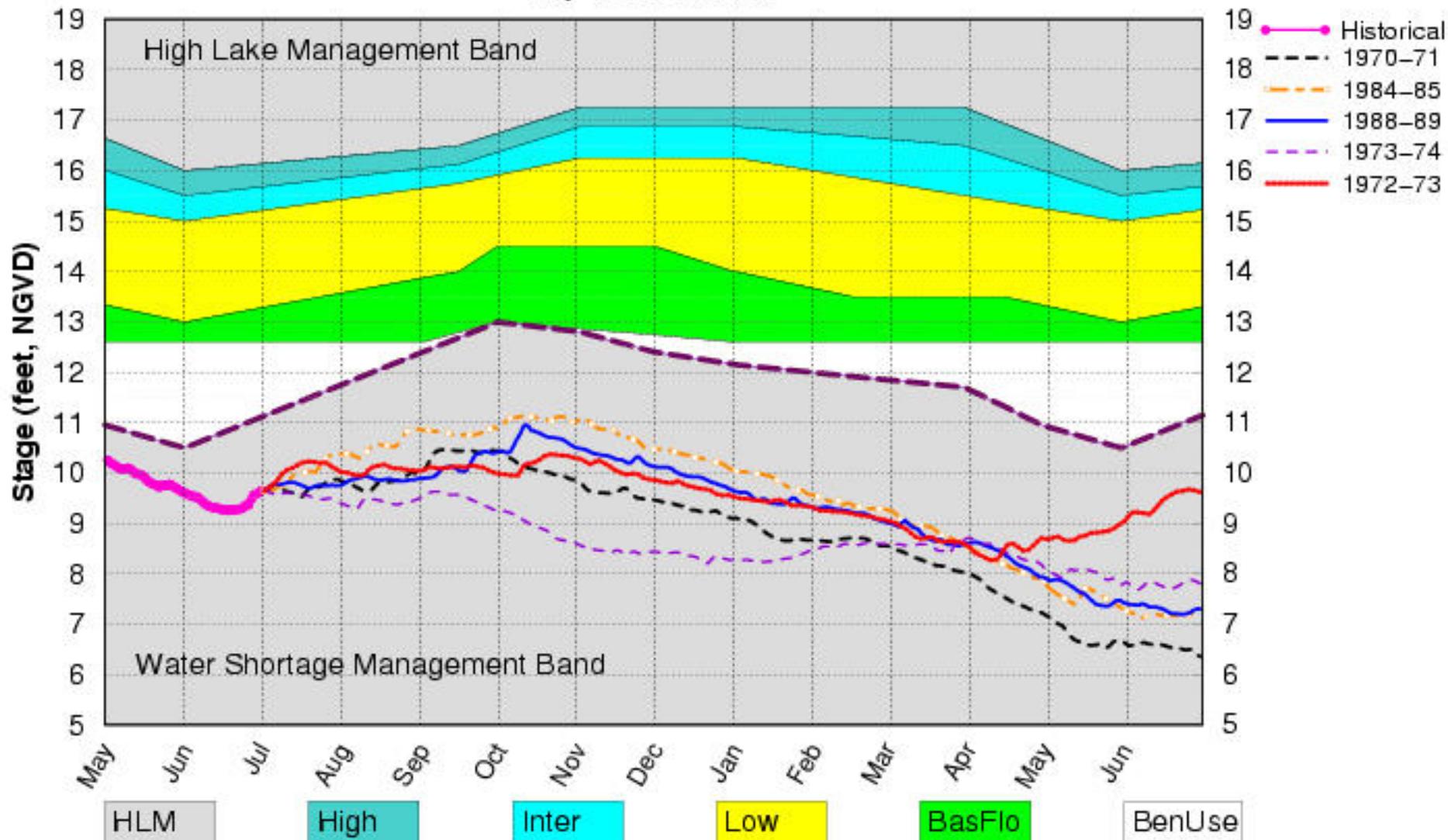
Wet Years Plot PA



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM July 2008 Position Analysis

Dry Years Plot PA



(See assumptions on the Position Analysis Results website)

Approx. Distance Scale (Statute Miles)

SH 125 250 375 500
True at 30.00N

Hurricane Bertha

July 9, 2008

5 PM EDT Wednesday

NWS TPC/National Hurricane Center
Advisory 27

Current Center Location 24.8 N 58.1 W

Max Sustained Wind 105 mph

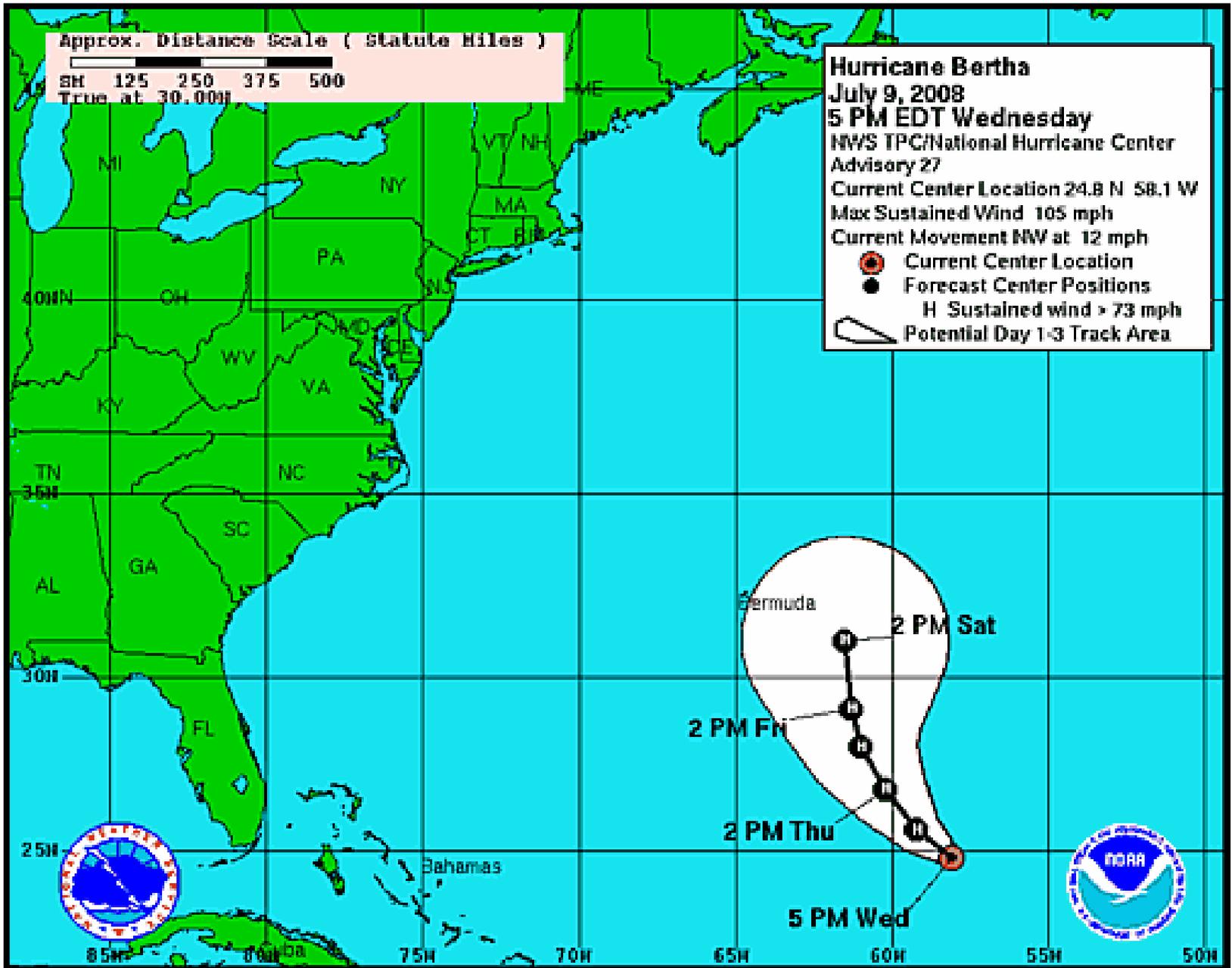
Current Movement NW at 12 mph

 Current Center Location

 Forecast Center Positions

H Sustained wind > 73 mph

 Potential Day 1-3 Track Area



Questions



State of the System

[Radar](#) [Raindar](#)

[Rainfall to date](#)

[Rainfall Forecast](#)

[3-month outlook](#)

[Rainfall Past 30 Days](#)

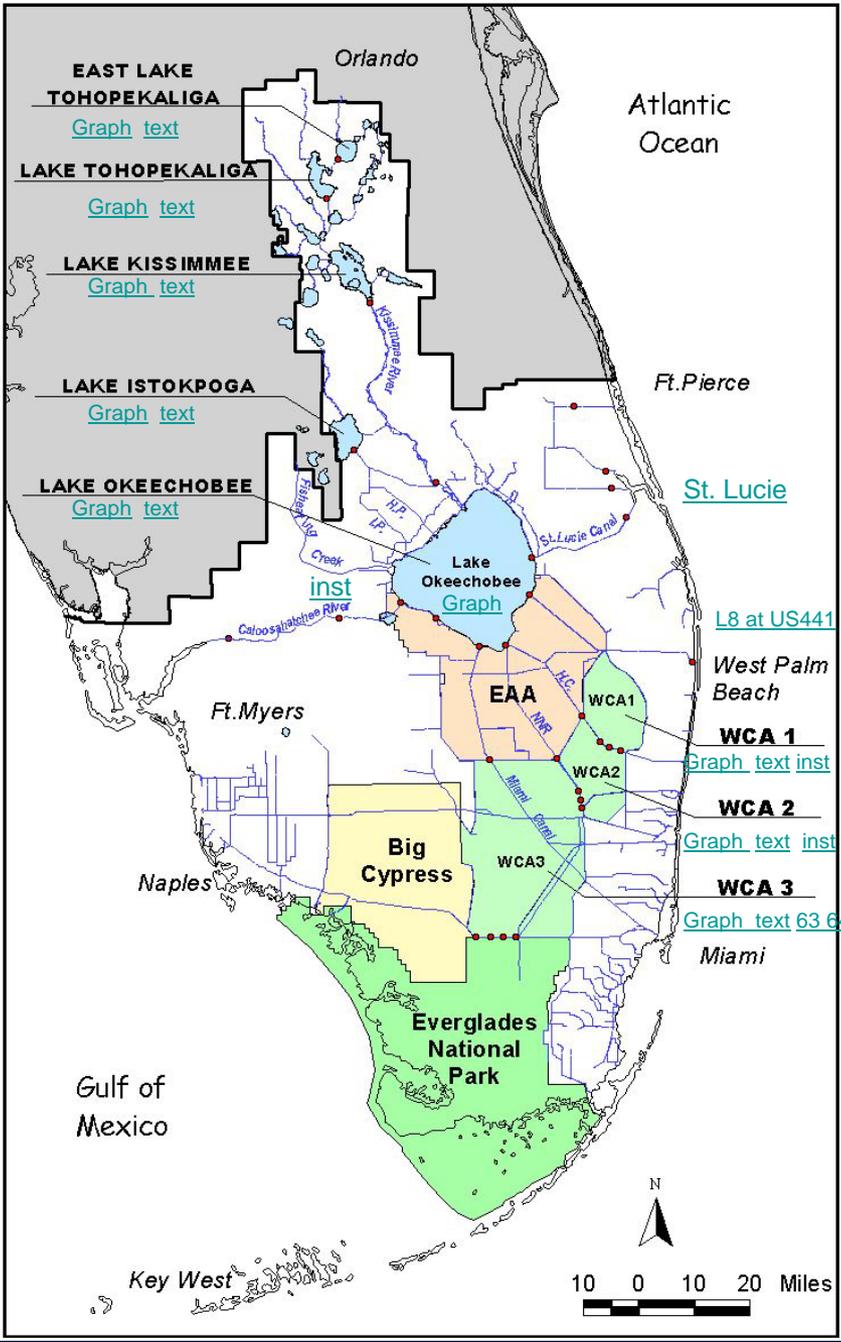
[Hurricane/TS](#)

[NWS/NOAA rainfall](#)

[NWS/NOAA QPF](#)

[WebAtlas](#) [GVA](#)

Values as of
7/14/2008



[Google current flows](#)

[Current Q](#)

[EAA Water levels](#)

[District realtime](#)

[Sit Report](#)

[Reg. Schedules](#)

[PA Analysis](#)

[STAs report](#)

[State drought monitor](#)

[Groundwater](#)

[Groundwater2](#)

[COE Website](#)

[USGS RT Sites](#)

Note:

All values are in units of feet, NGVD

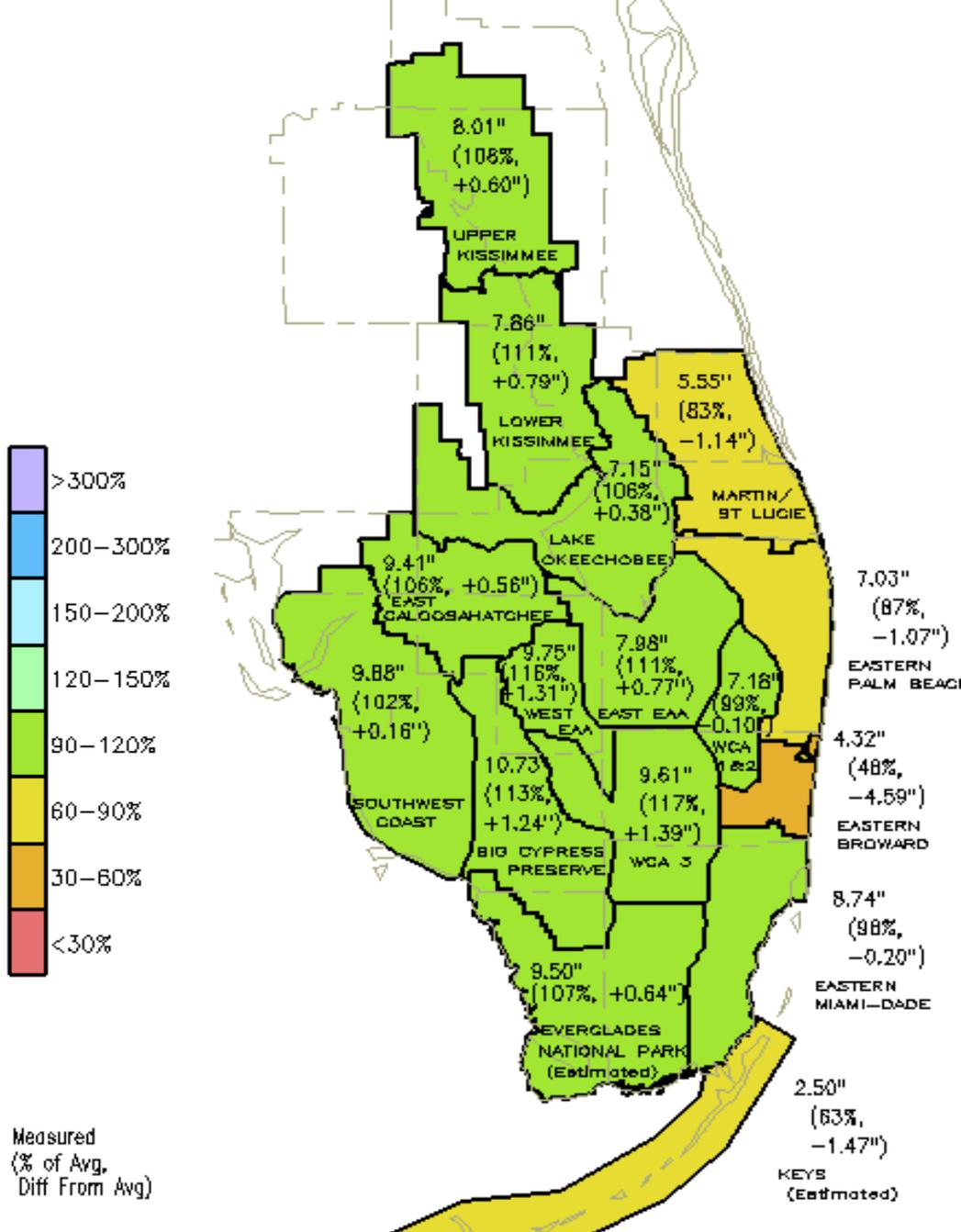
SFWMD 2008 June Rainfall 2nd – 1st July

**DISTRICT-WIDE:
8.30" (103%, +0.27")**

**Average June
= 8.03"**

June-2008:

- Most basins near average
- Basins below-avg include:
 - E.Broward (-5.49")
 - Martin/St.Lucie (-1.14")
 - Palm Bch (-1.07")
- On average, 20% of annual (10.4") rainfall between the Memorial Day & Independence Day weekends



SFWMD 2008 July Rainfall

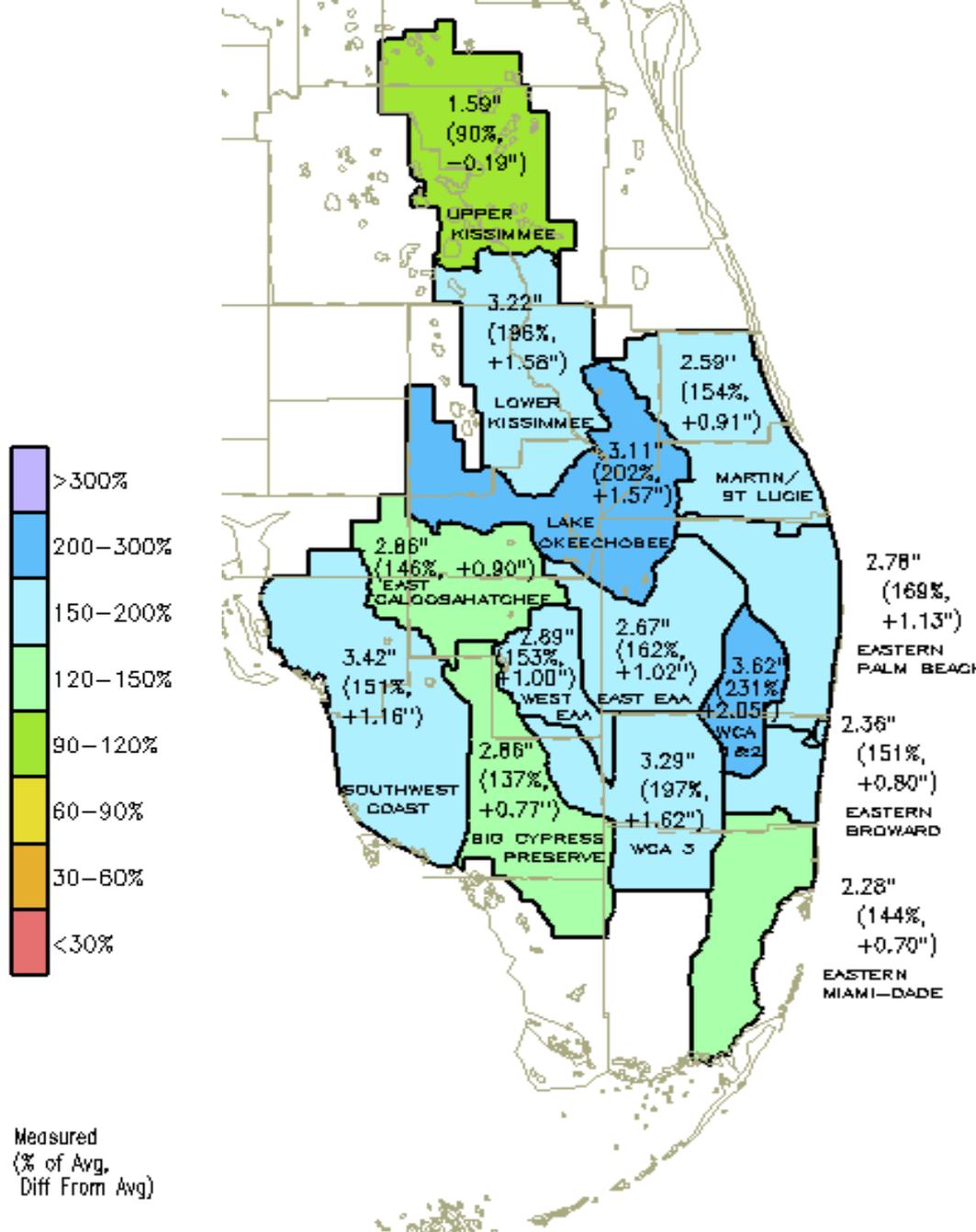
2nd – 9th

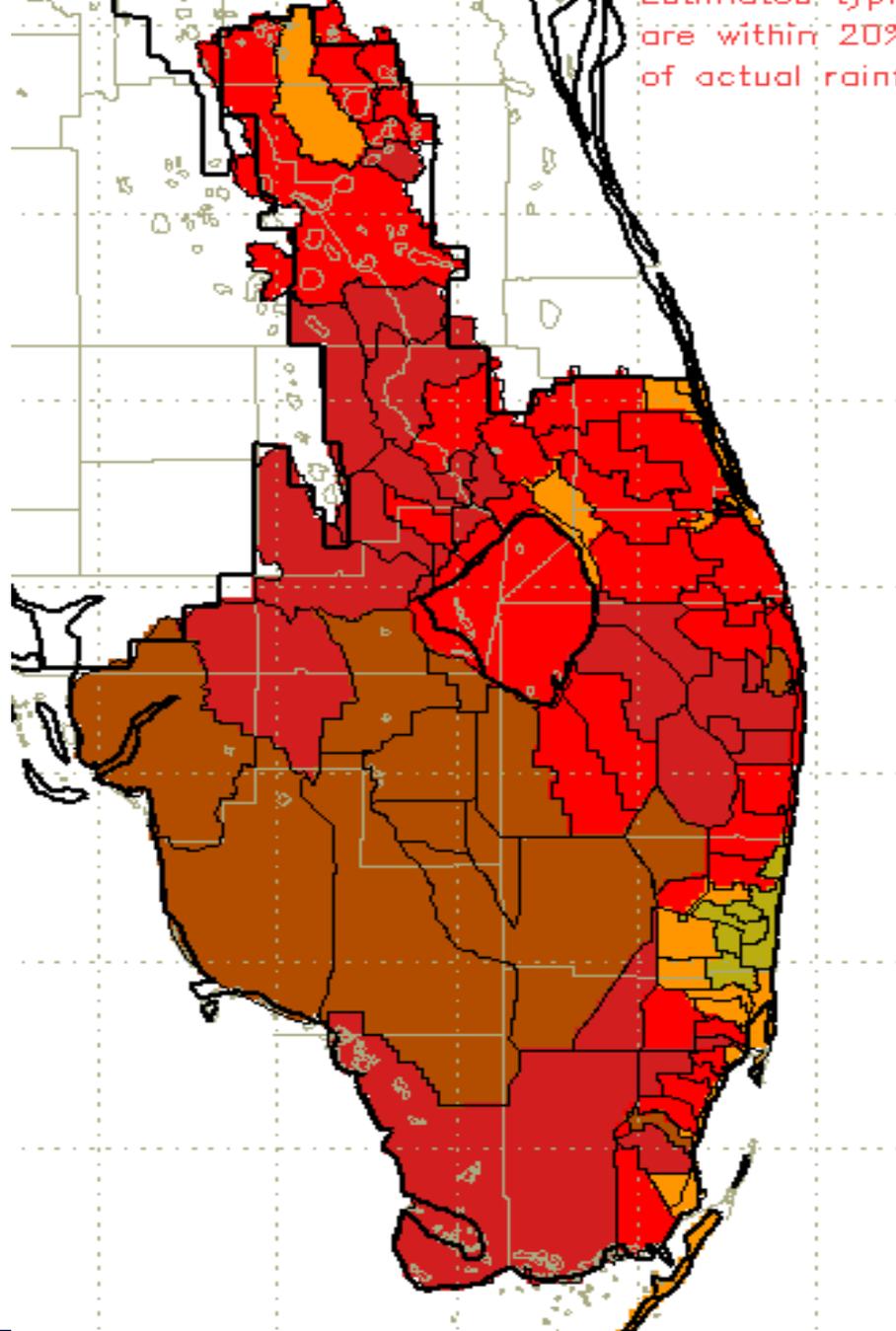
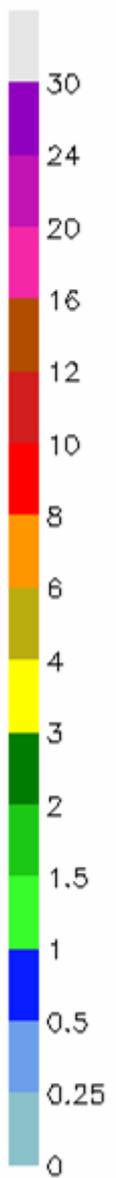
**DISTRICT-WIDE:
2.84" (161%, +1.08")**

**Average June
= 6.83"**

As of 9-July-2008:

- *All basins above average, except - Upper Kissimmee*





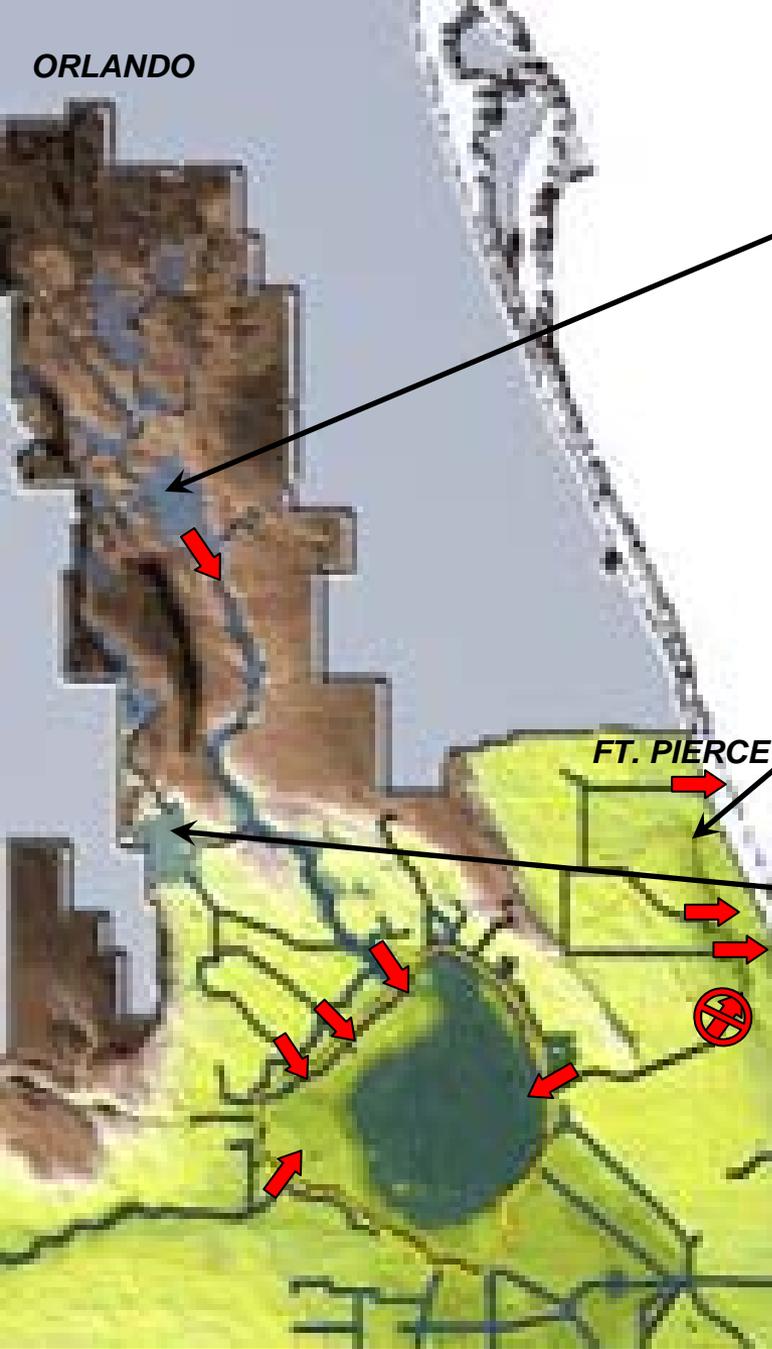
Estimated typical
are within 20%
of actual rainfall

SFWMD 2008 30 Day Rainfall 9 June – 9 July

**DISTRICT-WIDE:
10.51" (133%, +1.08")**

*Direct Rainfall on Lake
Okeechobee has been
about 9.0 inches*

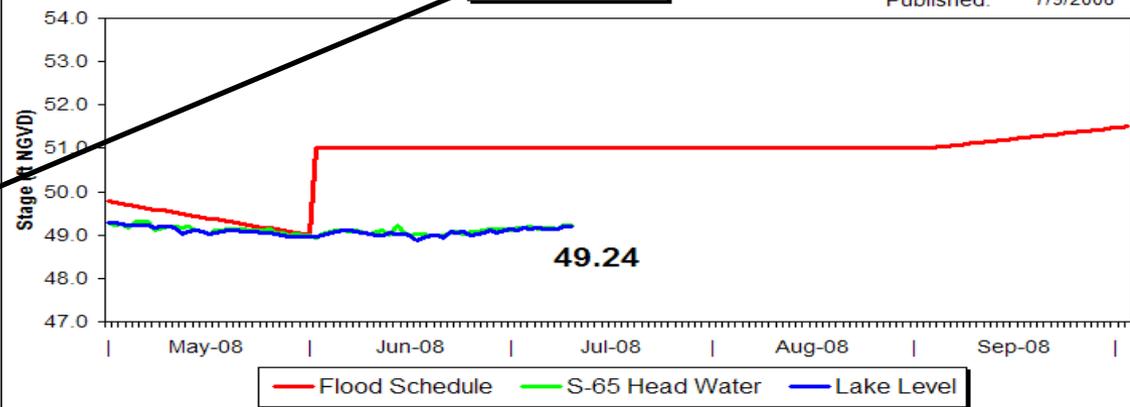
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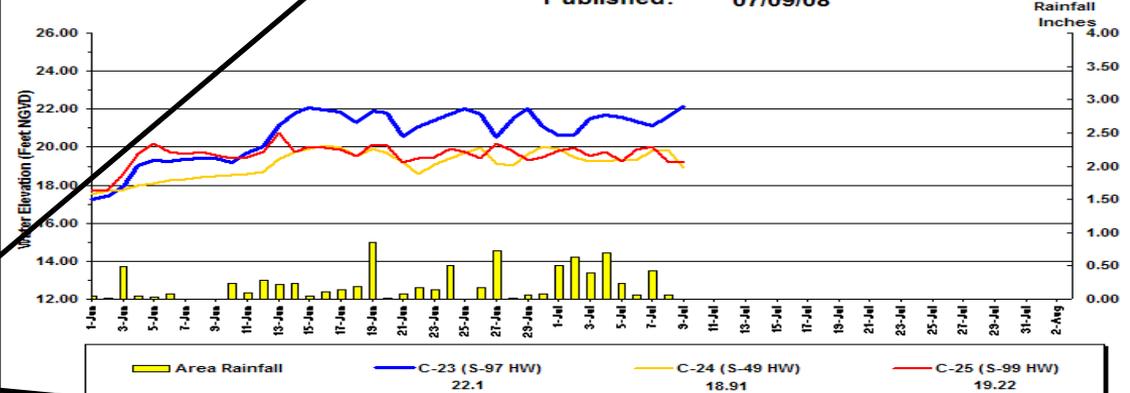
Published: 7/9/2008



— Flood Schedule — S-65 Head Water — Lake Level

St Lucie Structures on C23, C24 & C25 Canals

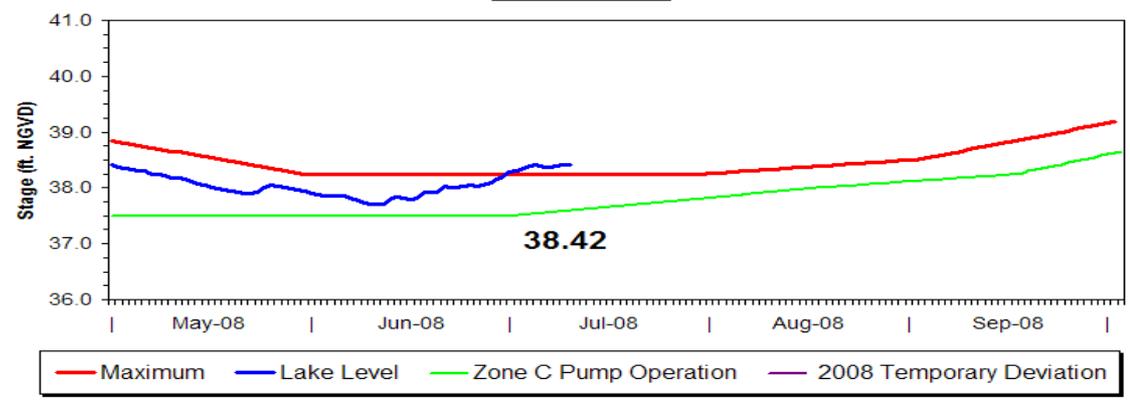
Published: 07/09/08



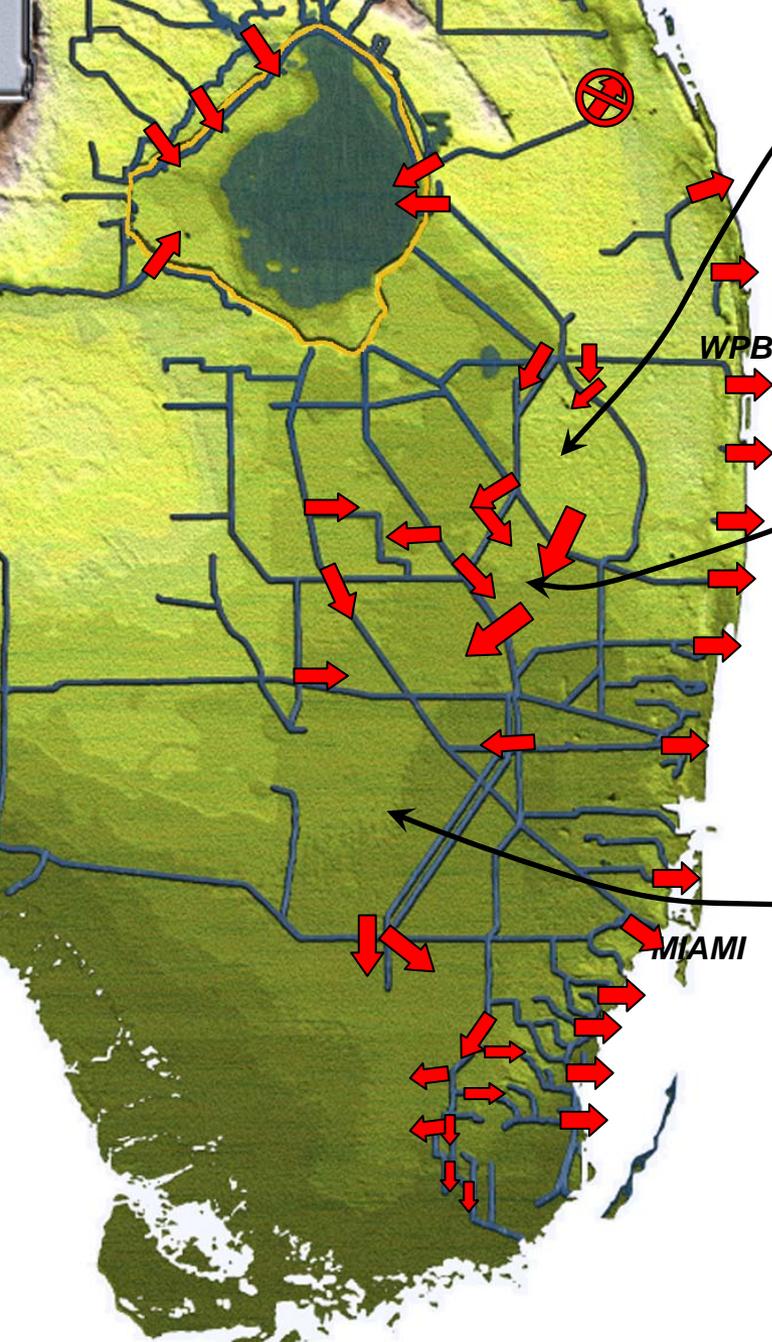
— Area Rainfall — C-23 (S-97 HW) 22.1 — C-24 (S-49 HW) 18.91 — C-25 (S-99 HW) 19.22

Lake Istokpoga

Published: 7/9/2008

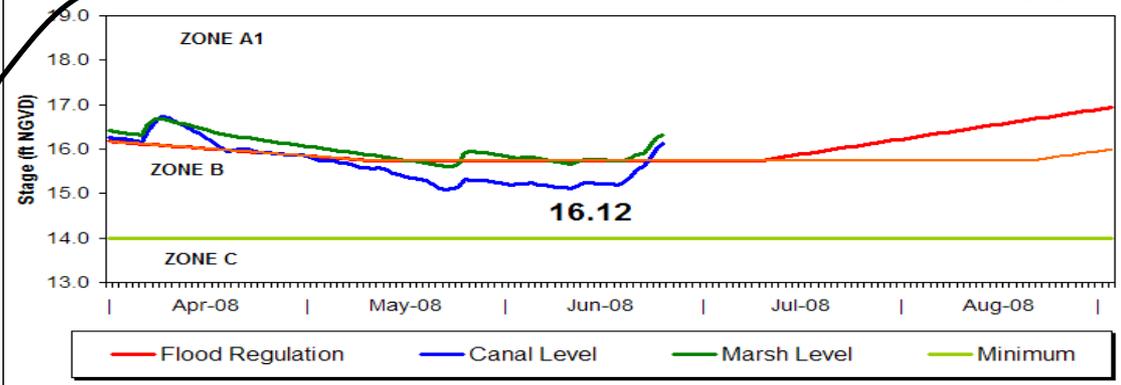


— Maximum — Lake Level — Zone C Pump Operation — 2008 Temporary Deviation



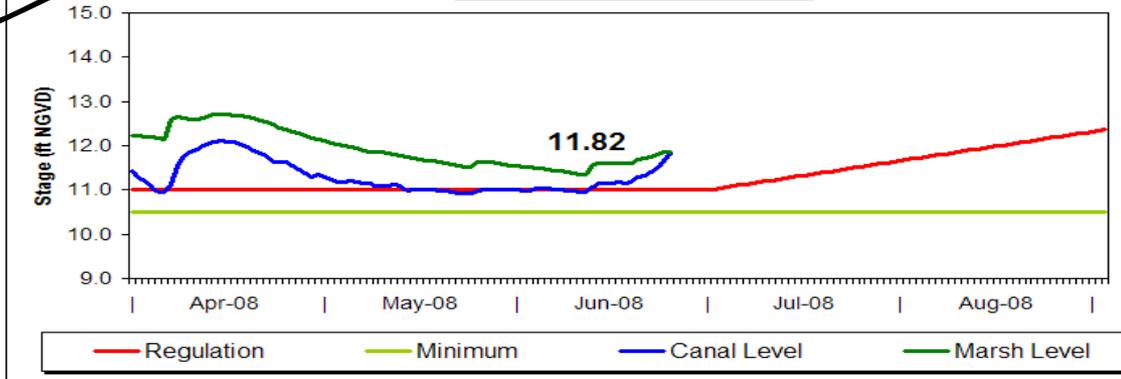
Water Conservation Area 1

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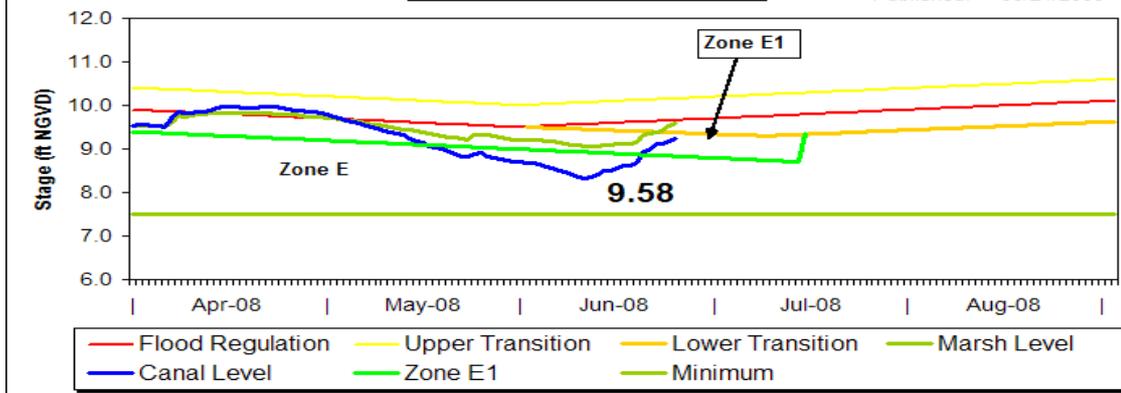
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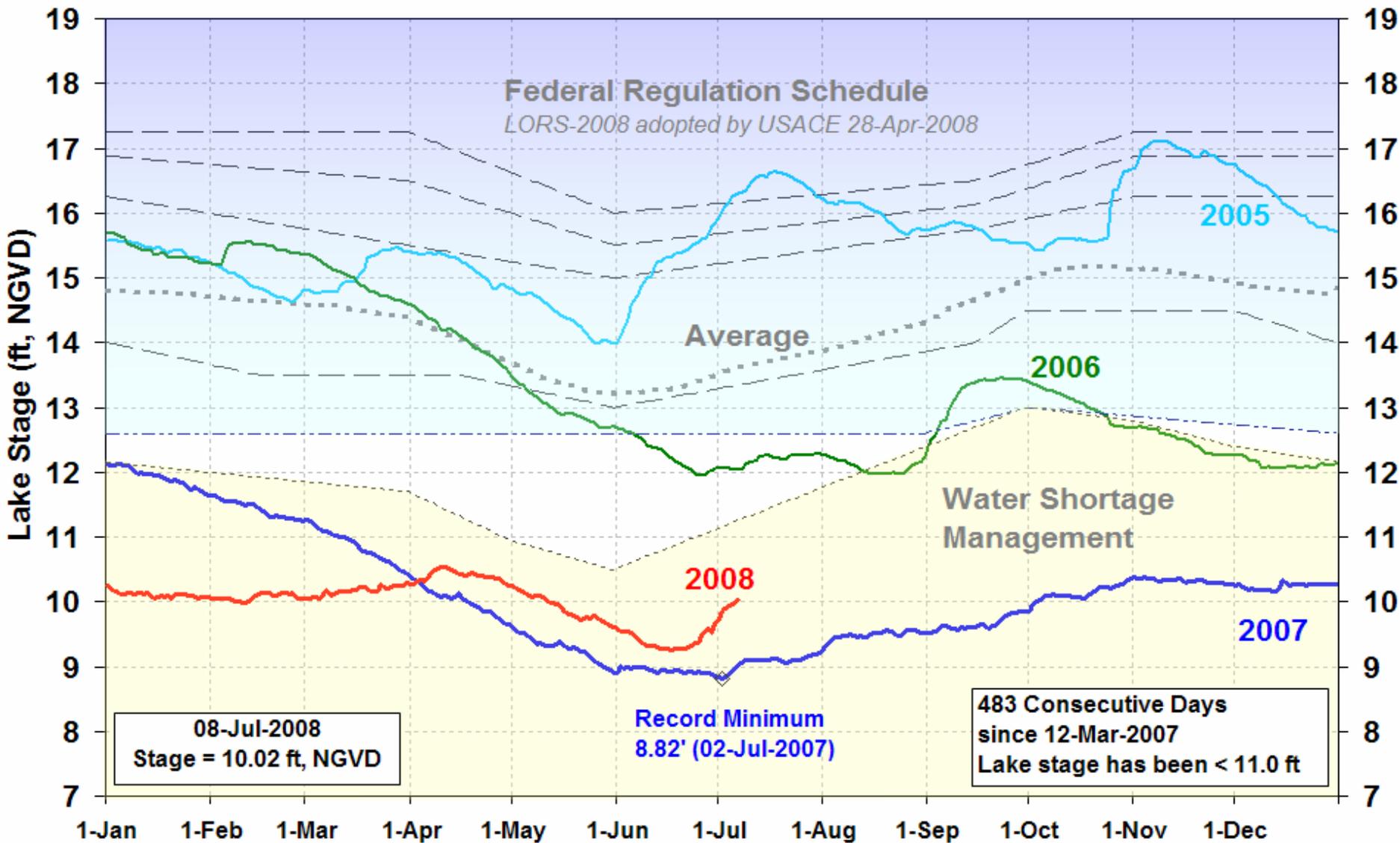
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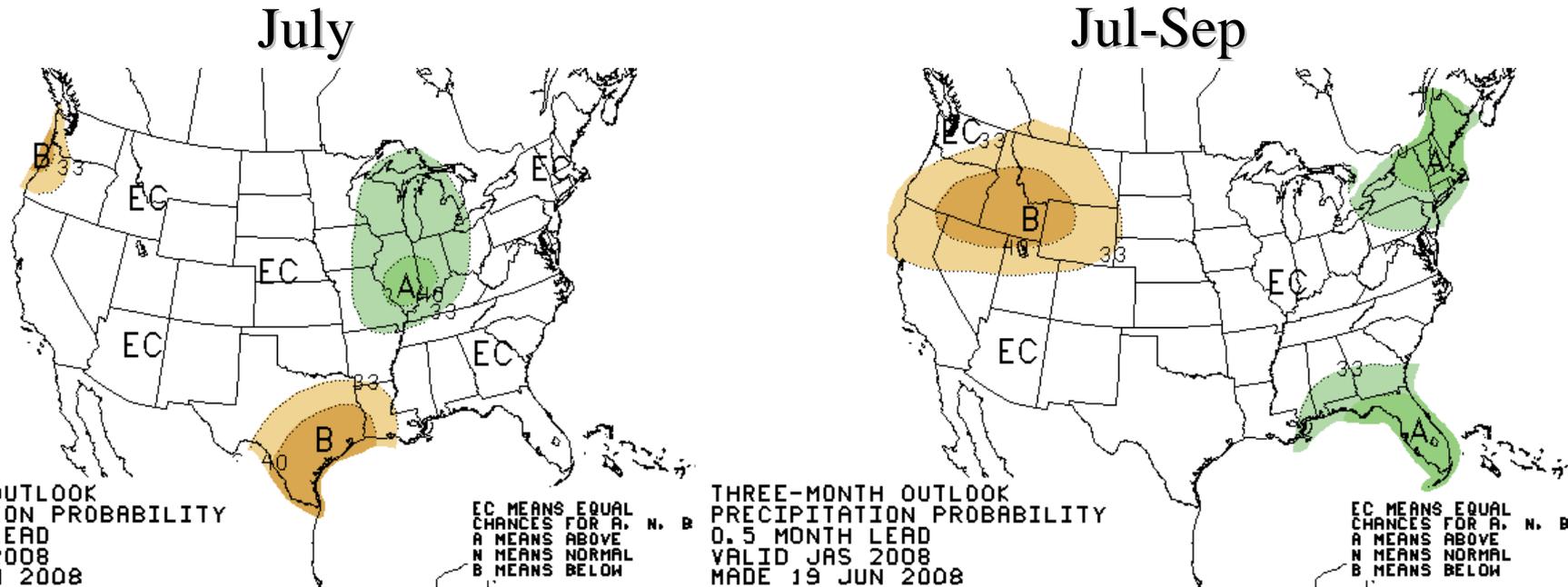
Lake Okeechobee Stage Hydrograph Comparison

- - - Average(1965-2006) 2005 2006 2007 2008



U. S. Seasonal Precipitation Outlook

National Climate Prediction Center (CPC)

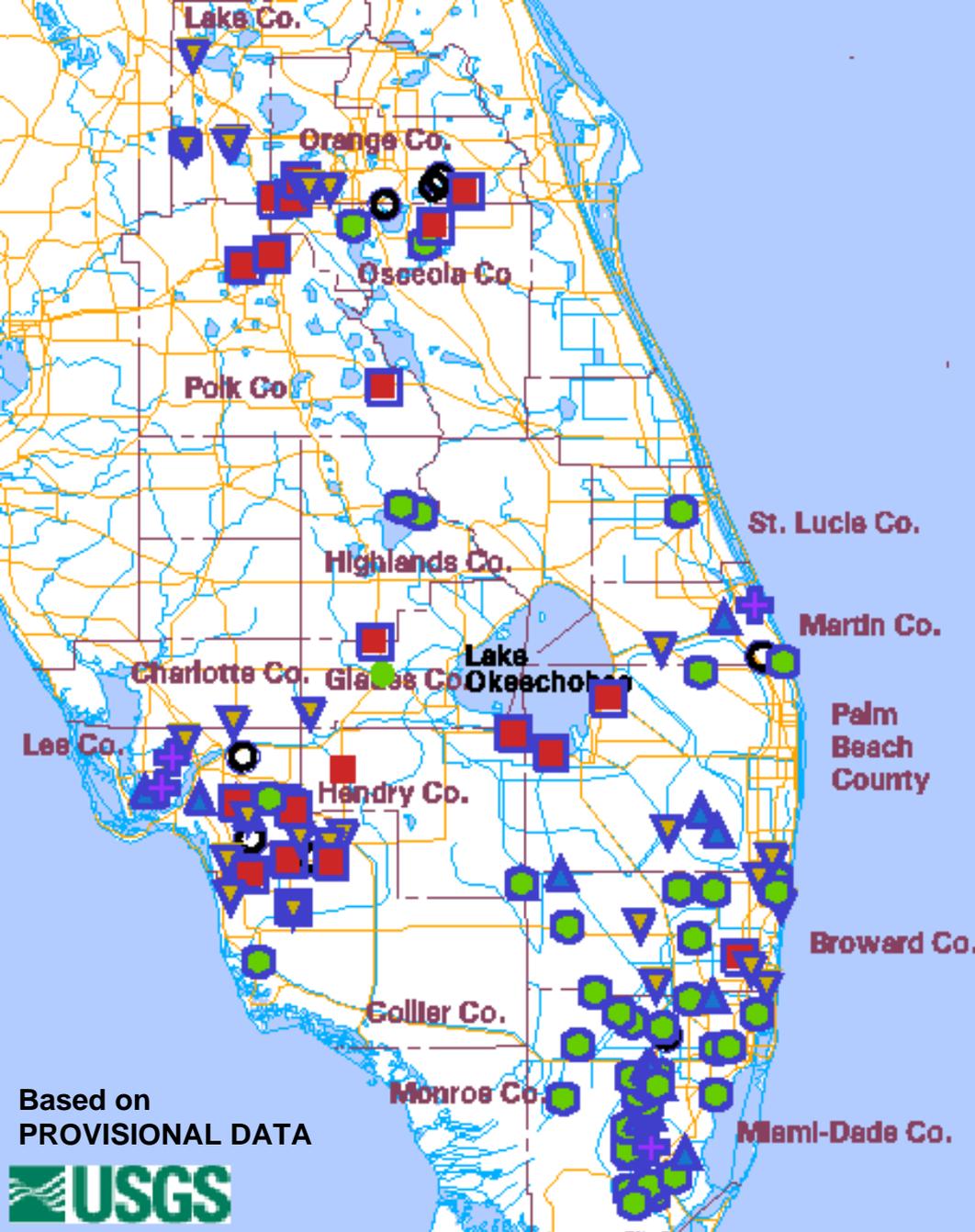


- The CPC outlook for July shows equal chances of below-normal (B), normal (N), or above-normal (A) rainfall.
- The outlook for July-Sep & for the remainder of the 2008 wet season shows increased chances of above-normal rainfall.
- La Niña fading and neutral ENSO conditions are expected this summer.
(NCEP Climate Forecast System (CFS) Model)

WATER LEVELS AT SELECTED MONITORING SITES as of July 9, 2008

CLASS BASED ON PAST WATER
ELEVATIONS FOR THIS TIME OF YR

-  In highest 10%
-  Within highest 10-30%
-  Within 20% of the median
-  Within lowest 10-30%
-  In lowest 10%
-  Insufficient information



Based on
PROVISIONAL DATA



