Water Conditions Summary

August 11, 2011

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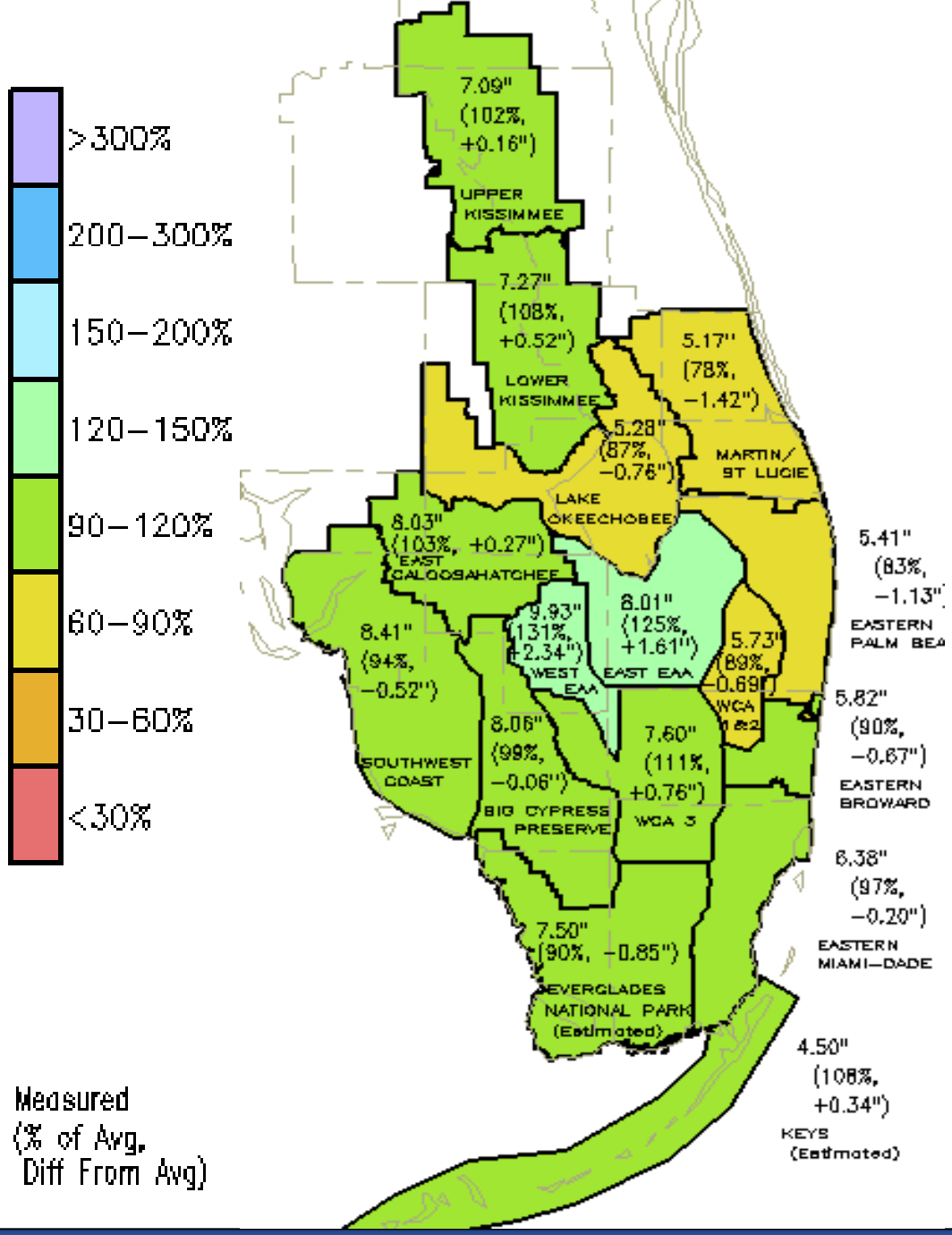
Operations, Maintenance & Construction Division
South Florida Water Management District

Photograph by Mark Renz; used with permission.

SFWMD 2010-11
<u>July Rainfall</u>
Jul 1 – 31

DISTRICT-WIDE: 7.08” (101% of Avg, or +0.05”)



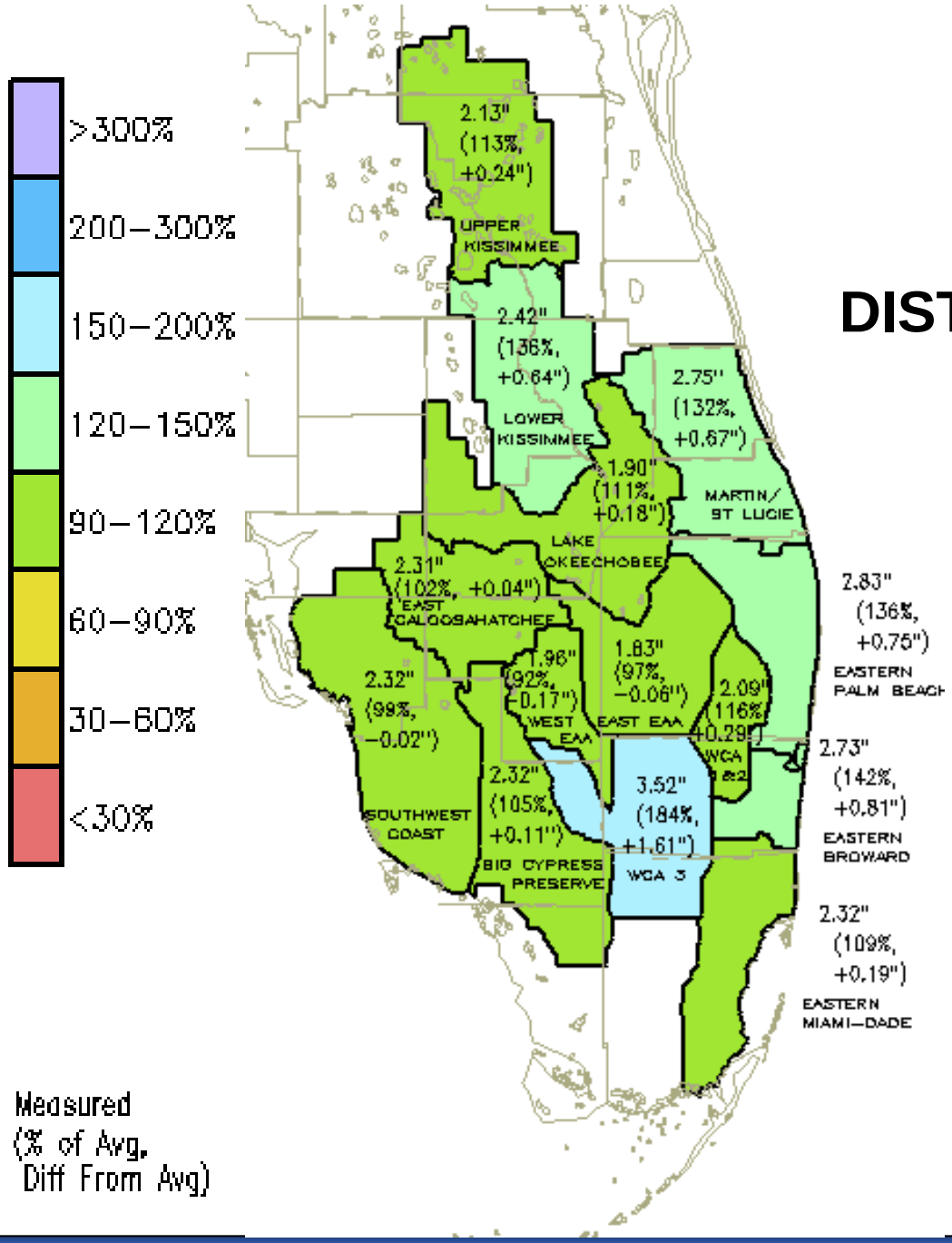
- Average July rainfall District-Wide
- Above-average rainfall in the EAA and western EAA
- Below-average rainfall in:
  - Lake O watershed
  - Martin/St. Lucie Co.
  - East Palm Beach Co.
  - WCA-1 and WCA-2

SFWMD 2010-11

AUG Rainfall

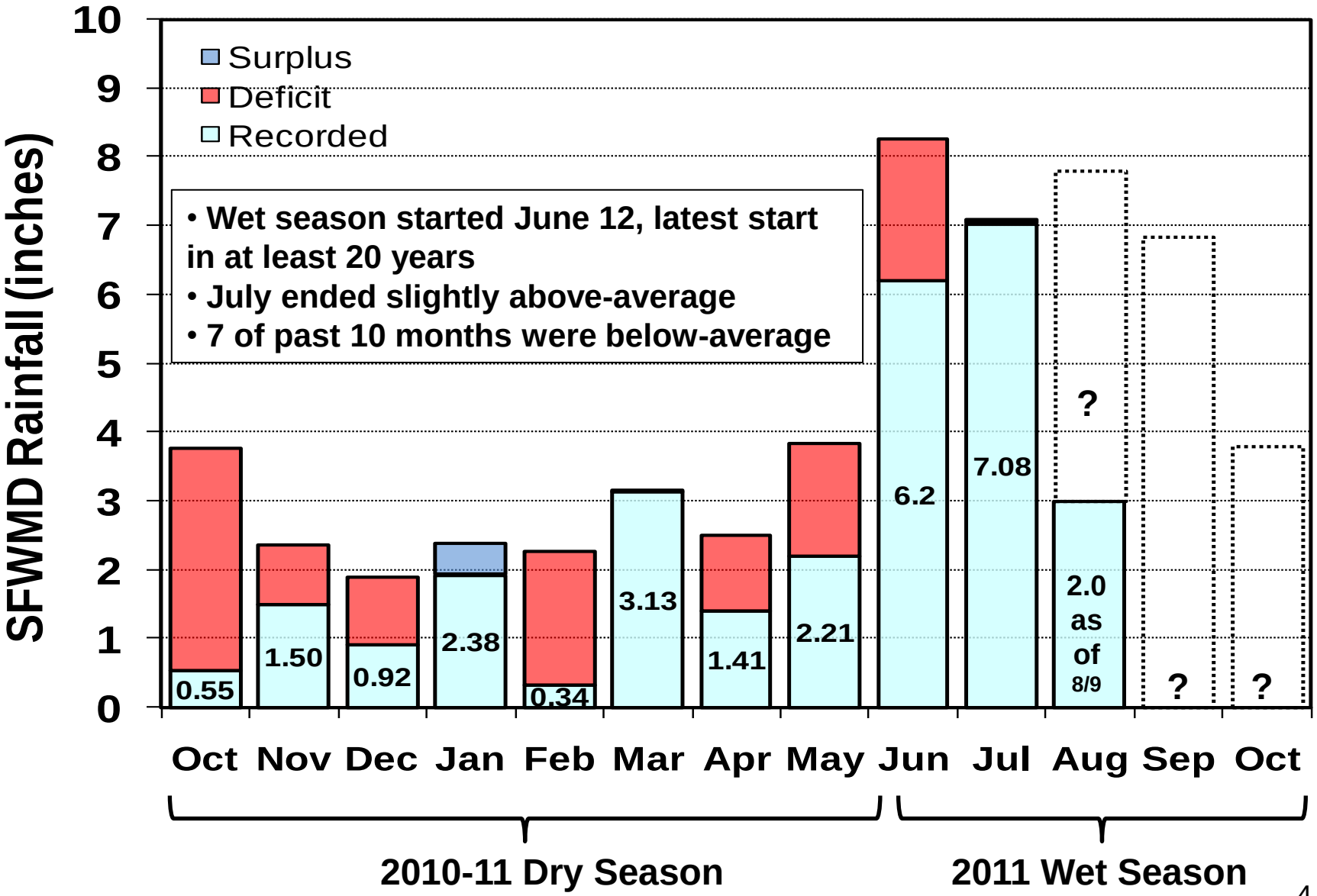
Aug 1 – 9

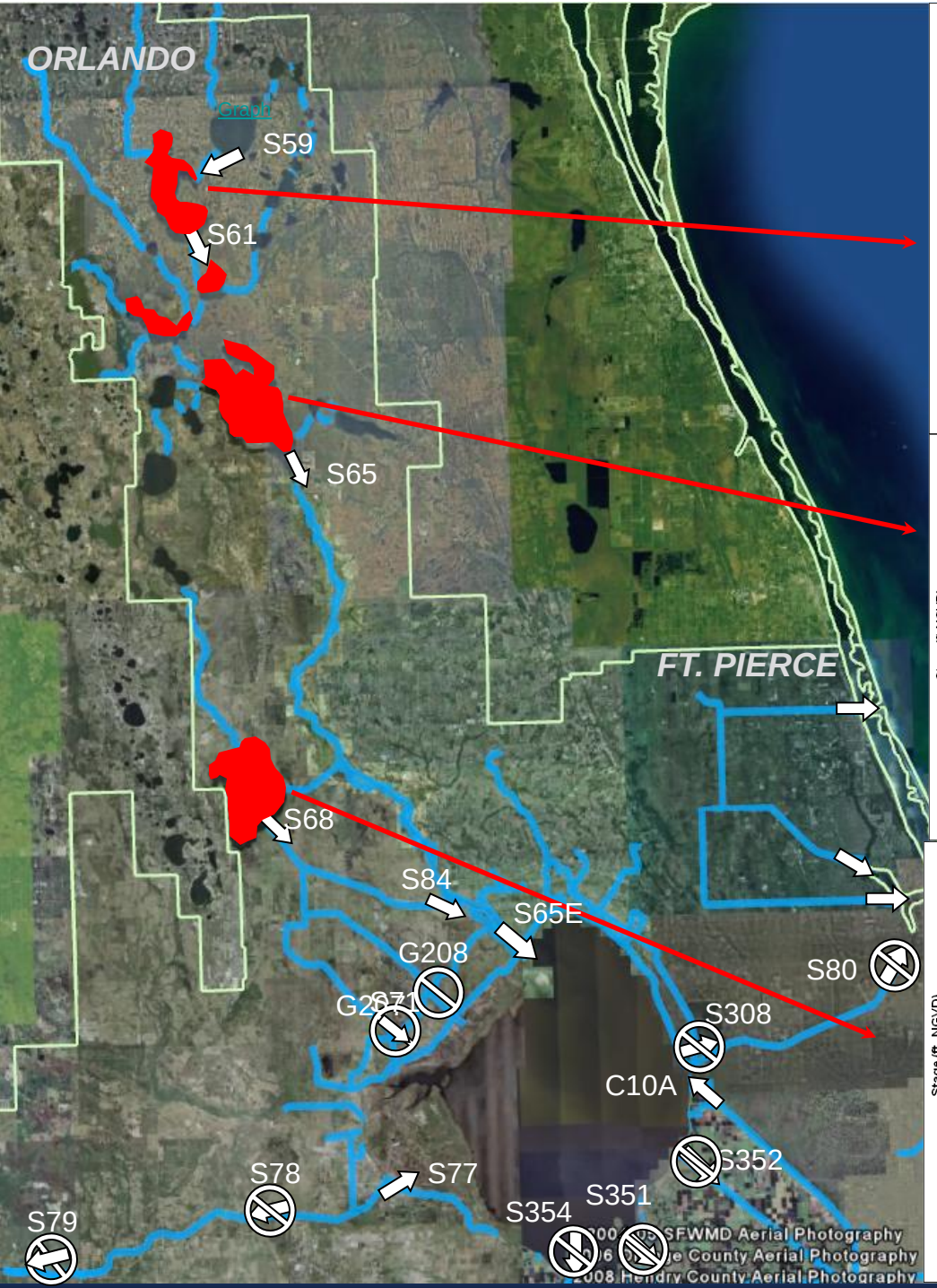
DISTRICT-WIDE: 2.38” (119% of Avg, or +0.37”)

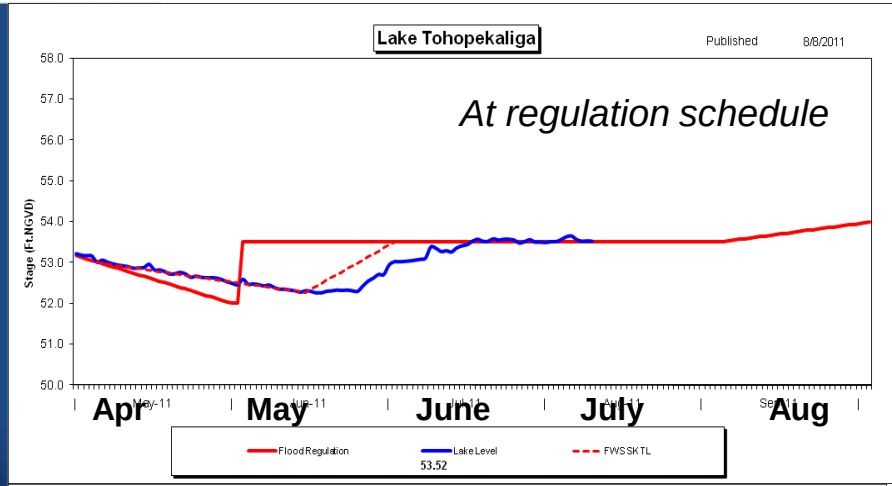


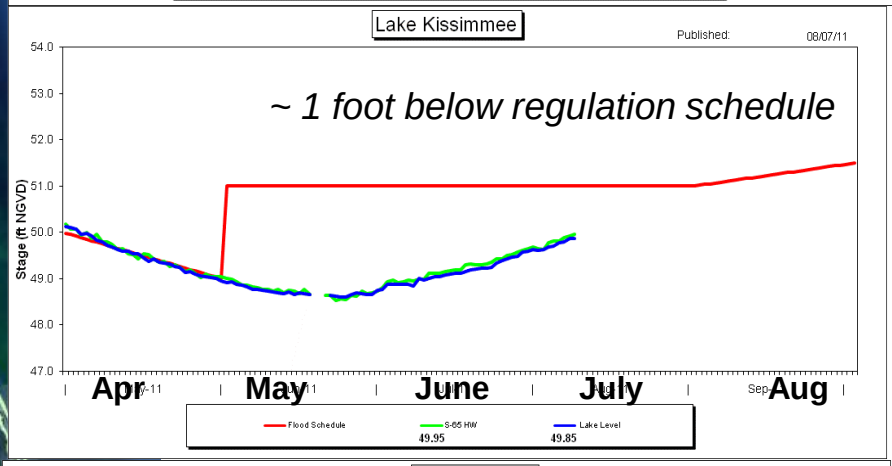
- All basins received above-average rainfall for the beginning of August.
- WCA-3 received highest amount
- T.S. Emily deteriorated prior to reaching S FL

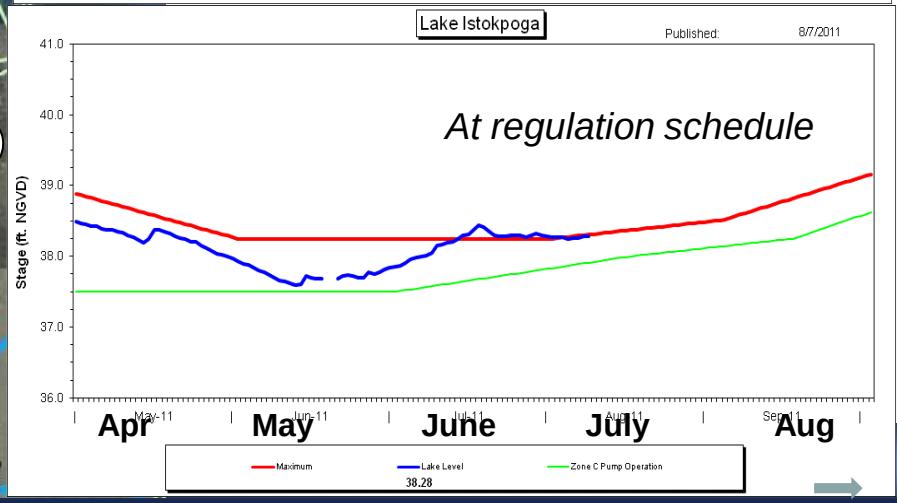
SFWMD Rainfall Distribution Comparison (Oct 2010 - July 2011)

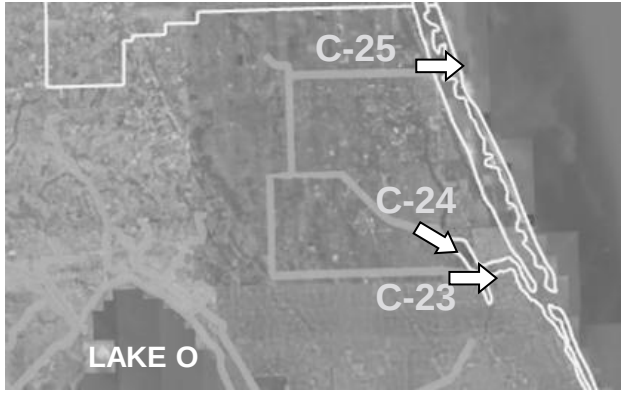



ORLANDO
S59
S61
S65
FT. PIERCE
S68
S84
S65E
G208
G207
S80
S308
C10A
S352
S78
S77
S351
S354
S79
SFWMD Aerial Photography
Hendry County Aerial Photography

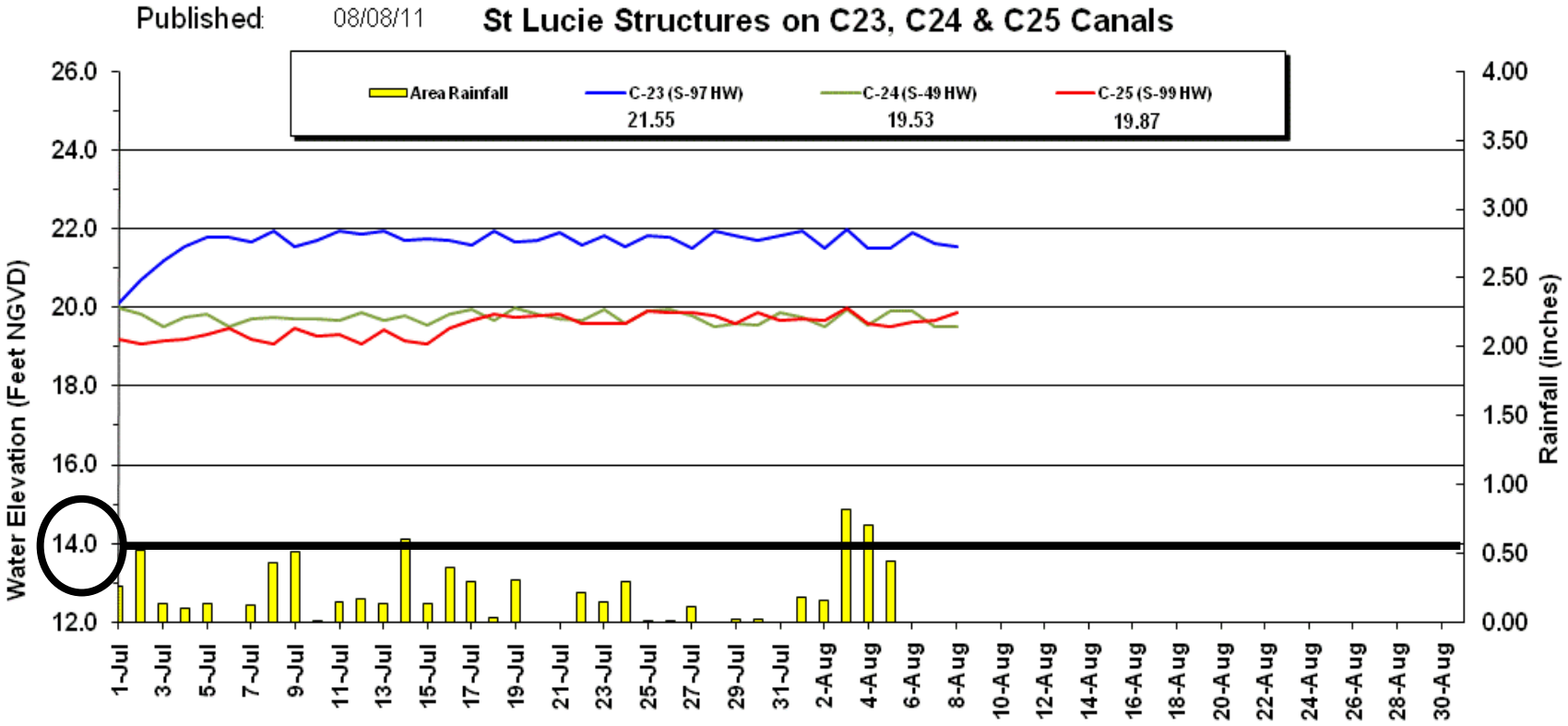

Lake Tohopekaliga
Published 8/8/2011
At regulation schedule
Stage (Ft.NGVD)
58.0
57.0
56.0
55.0
54.0
53.0
52.0
51.0
50.0
Apr
May
June
July
Aug
Flood Regulation
Lake Level
FWS SK TL
53.52


Lake Kissimmee
Published: 08/07/11
~ 1 foot below regulation schedule
Stage (ft NGVD)
54.0
53.0
52.0
51.0
50.0
49.0
48.0
47.0
Apr
May
June
July
Aug
Flood Schedule
S-65 HW
Lake Level
49.95
49.85

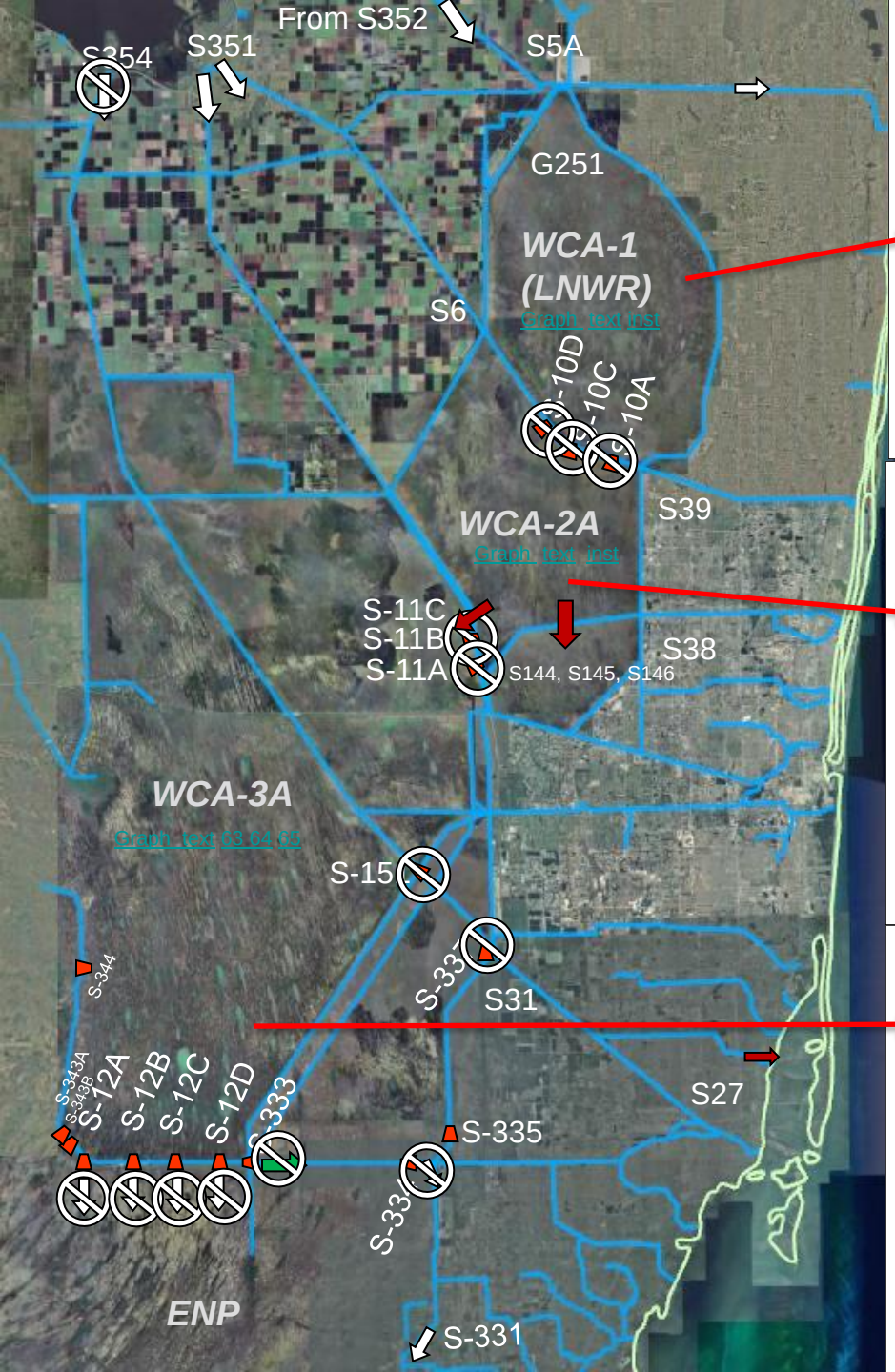

Lake Istokpoga
Published: 8/7/2011
At regulation schedule
Stage (ft. NGVD)
41.0
40.0
39.0
38.0
37.0
36.0
Apr
May
June
July
Aug
Maximum
Lake Level
Zone C Pump Operation
38.28

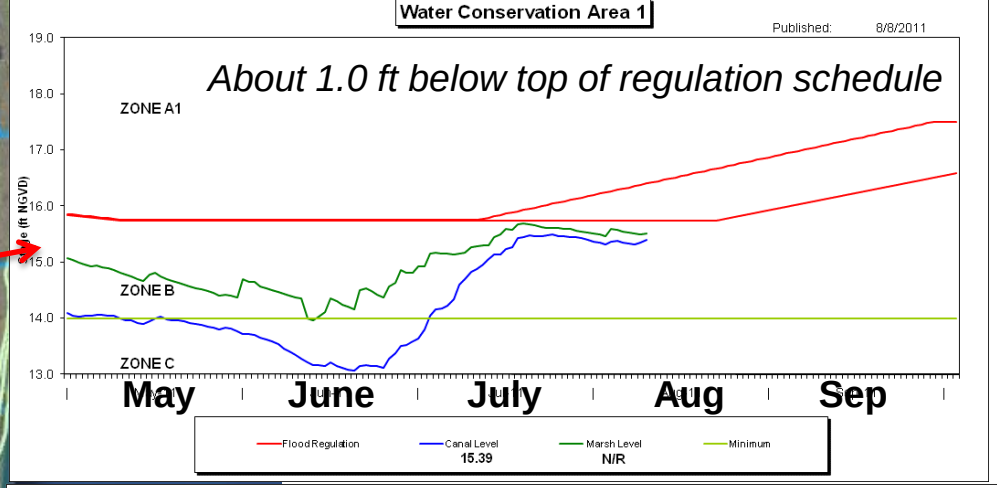


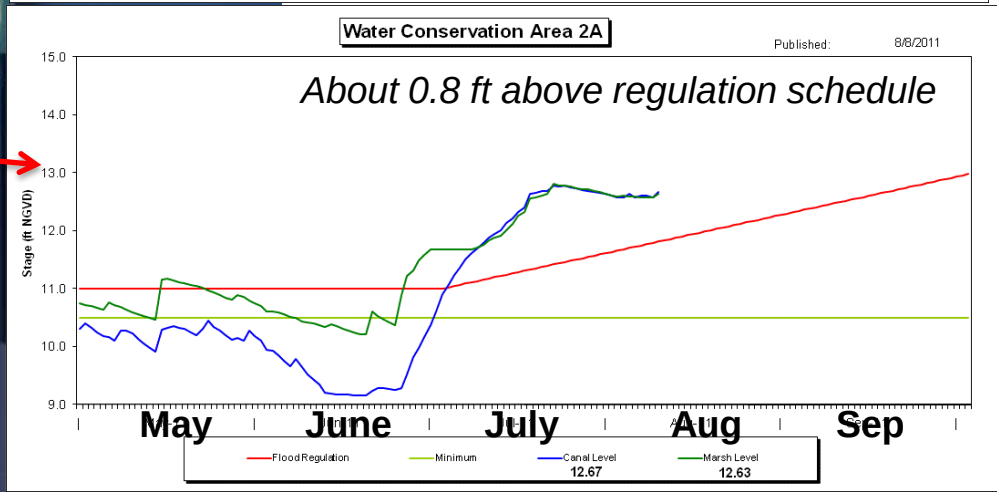
Canal stages well-above water supply cutoff elevation 14.0 ft, NGVD

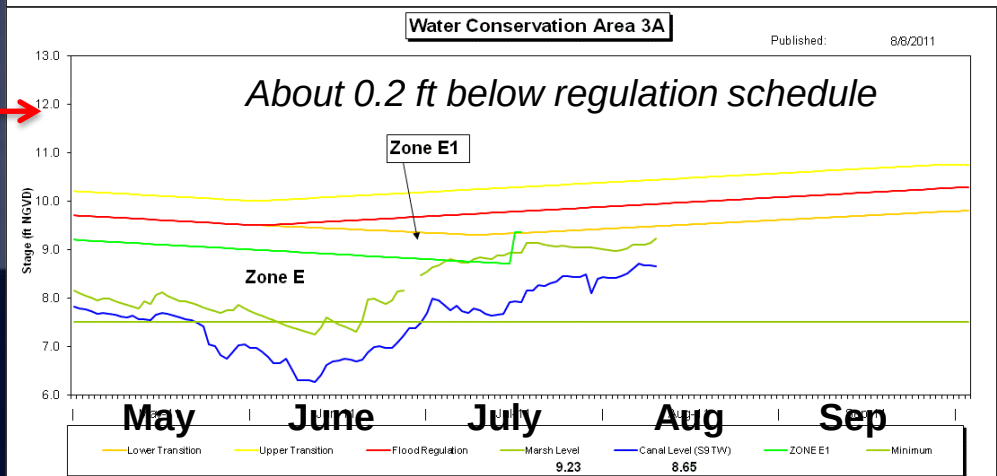


July | Aug

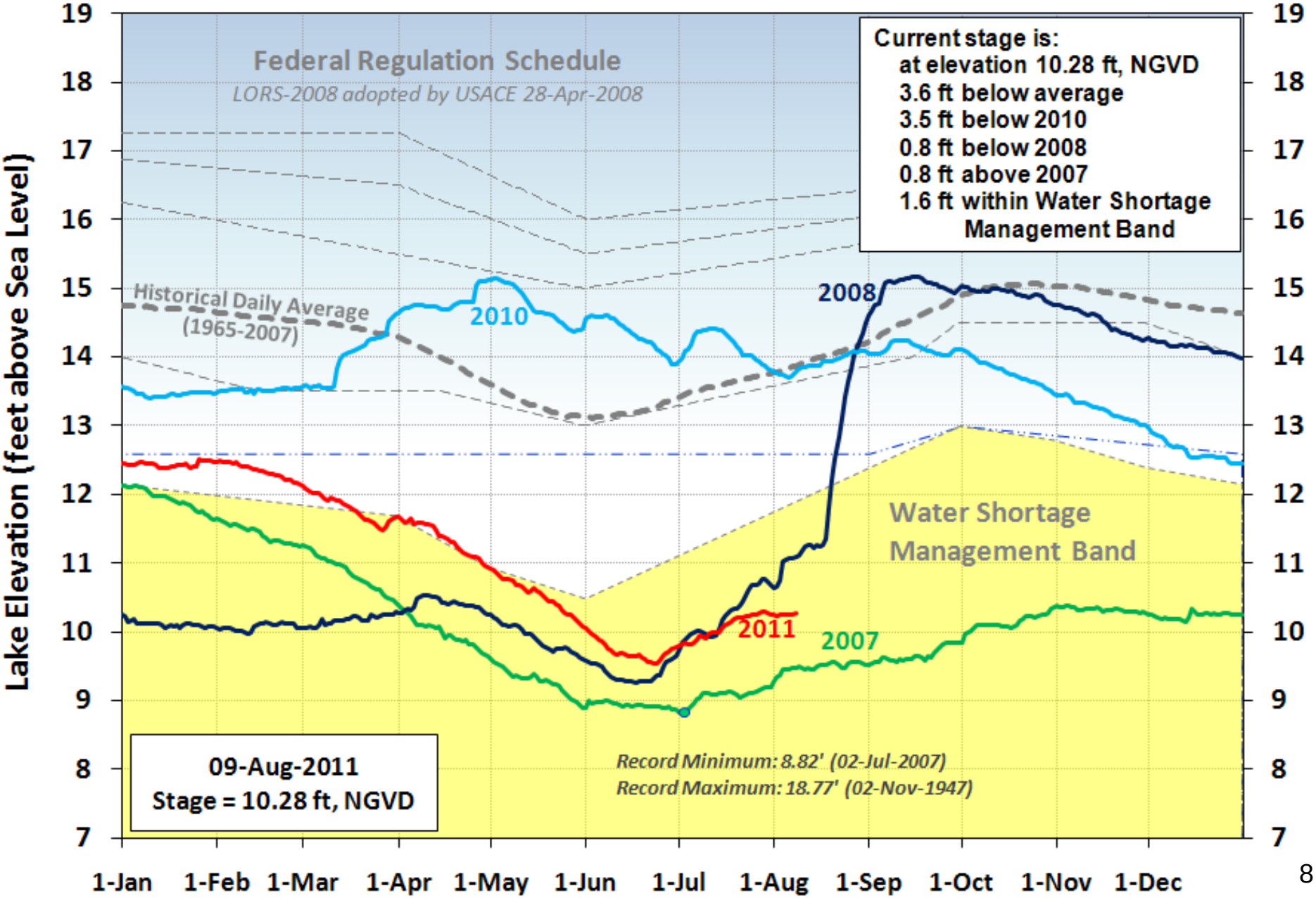

From S352
S354
S351
S5A
G251
WCA-1
(LNWR)
Graph text inst
S6
S-10D
S-10C
S-10A
S39
WCA-2A
Graph text inst
S-11C
S-11B
S-11A
S144, S145, S146
S38
WCA-3A
Graph text 63 64 65
S-15
S-344
S-332
S31
S-343A
S-343B
S-12A
S-12B
S-12C
S-12D
S-333
S27
S-335
S-334
ENP
S-331


Water Conservation Area 1
Published: 8/8/2011
About 1.0 ft below top of regulation schedule
ZONE A1
ZONE B
ZONE C
Stage (ft NGVD)
May
June
July
Aug
Sep
Flood Regulation
Canal Level
15.39
Marsh Level
N/R
Minimum


Water Conservation Area 2A
Published: 8/8/2011
About 0.8 ft above regulation schedule
Stage (ft NGVD)
May
June
July
Aug
Sep
Flood Regulation
Minimum
Canal Level
12.67
Marsh Level
12.63


Water Conservation Area 3A
Published: 8/8/2011
About 0.2 ft below regulation schedule
Zone E1
Zone E
Stage (ft NGVD)
May
June
July
Aug
Sep
Lower Transition
Upper Transition
Flood Regulation
Marsh Level
9.23
Canal Level (S9TW)
8.65
ZONE E1
Minimum

Lake Okeechobee Water Level Comparison



STA-3/4 Diversion Operations

- Early July rains produced large inflows and rapid increases in STA-3/4 stages after extended dry conditions
- created unfavorable conditions for re-establishment of new emergent vegetation and the continued survival of remaining submerged aquatic vegetation (SAV)
- SFWMD scientists recommended reducing inflows and holding very low stages to allow SAV chance to recover
- SFWMD coordinating closely with FDEP to implement conditions of permit
- G-371 and G-373 diversion structures being used to facilitate reduced inflows to STA-3/4
- Operation intended to prevent overloading of STA-3/4 while preserving flood control capability of the system

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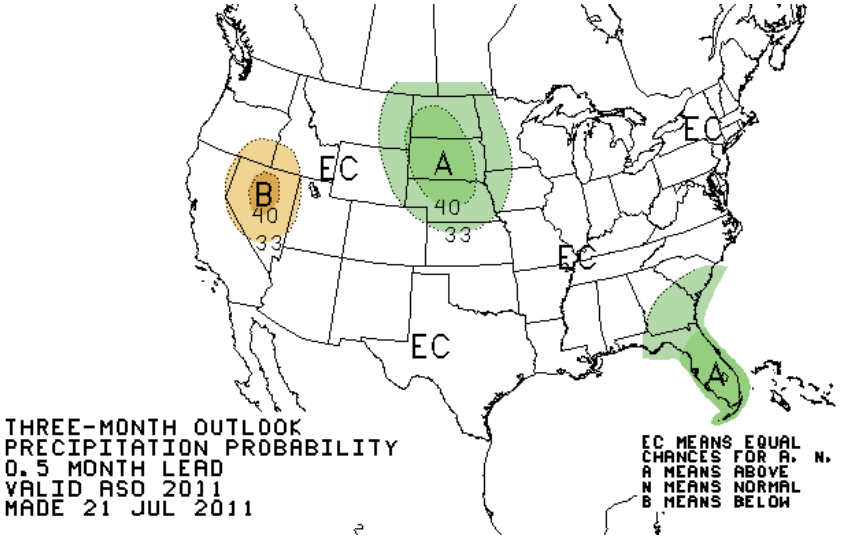
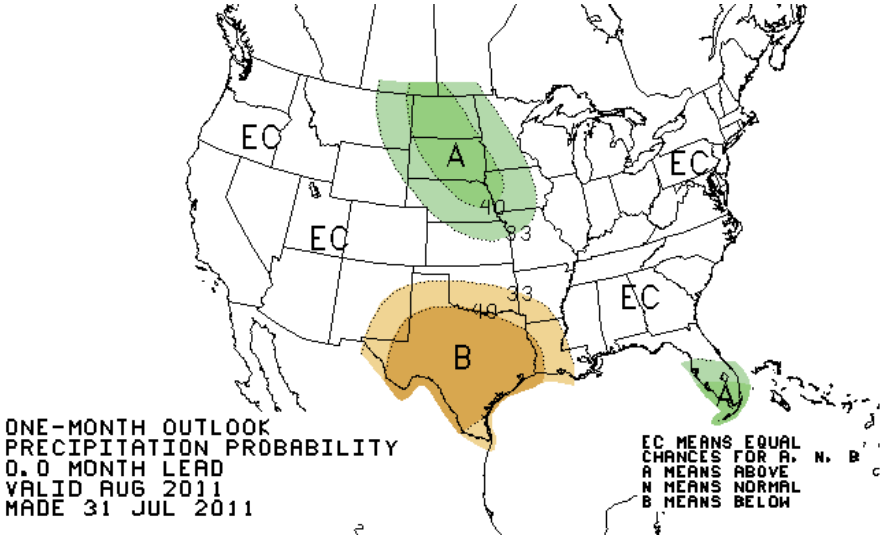
U. S. Seasonal Precipitation Outlook

National Climate Prediction Center (CPC)

Aug 2011



Aug-Oct 2011

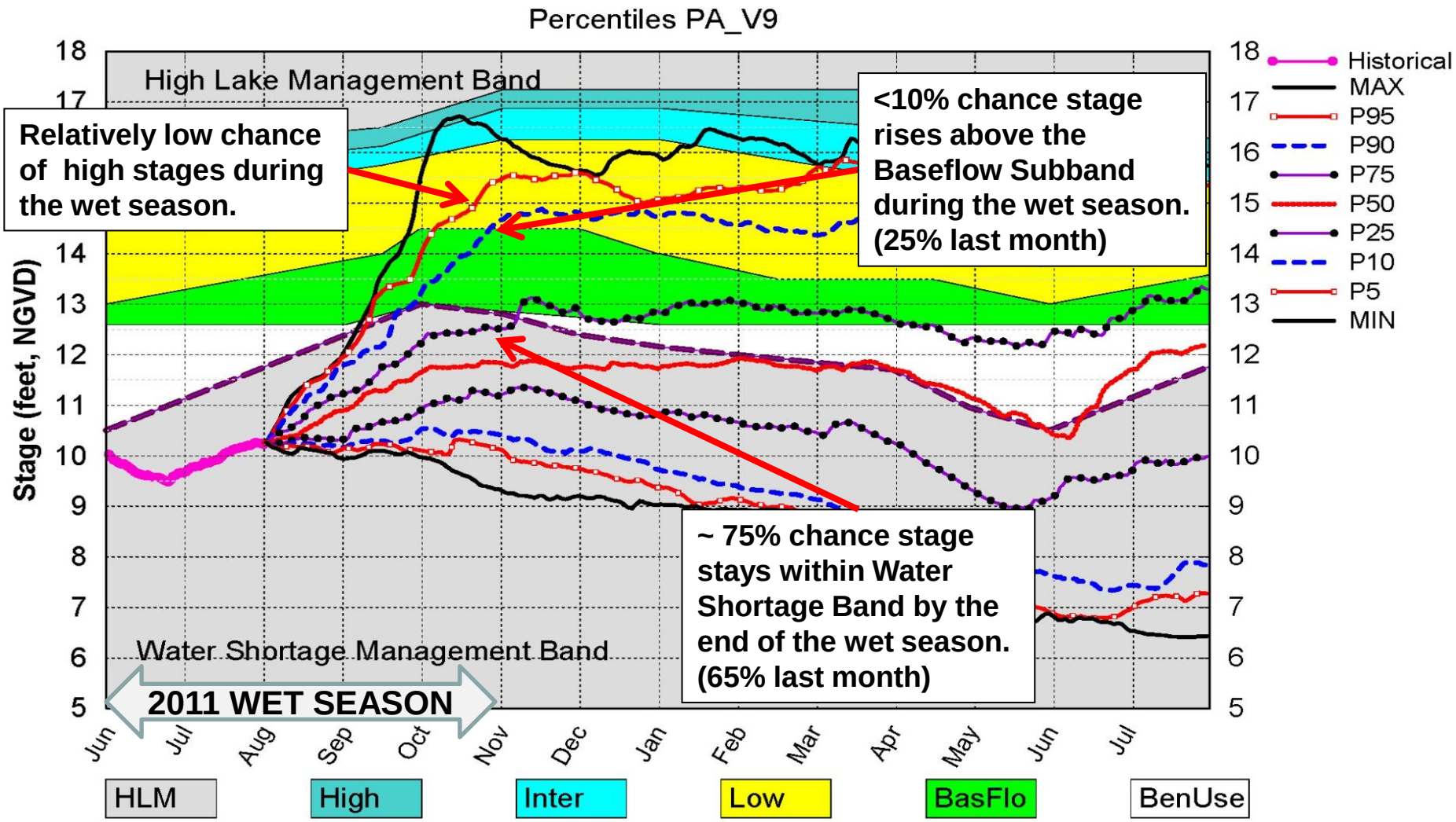


The current precipitation outlook for central and southern Florida is:

- August: increased chances of above-normal (A) rainfall
- Aug-Oct: increased chance of above-normal (A) rainfall

http://www.cpc.ncep.noaa.gov/products/predictions/30day/

Lake Okeechobee SFWMM August 2011 Position Analysis



(See assumptions on the Position Analysis Results website)

Mon Aug 8 11:27:33 2011

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Questions??