

# Water Conditions Summary

***South Florida Water Management District  
Governing Board Meeting***

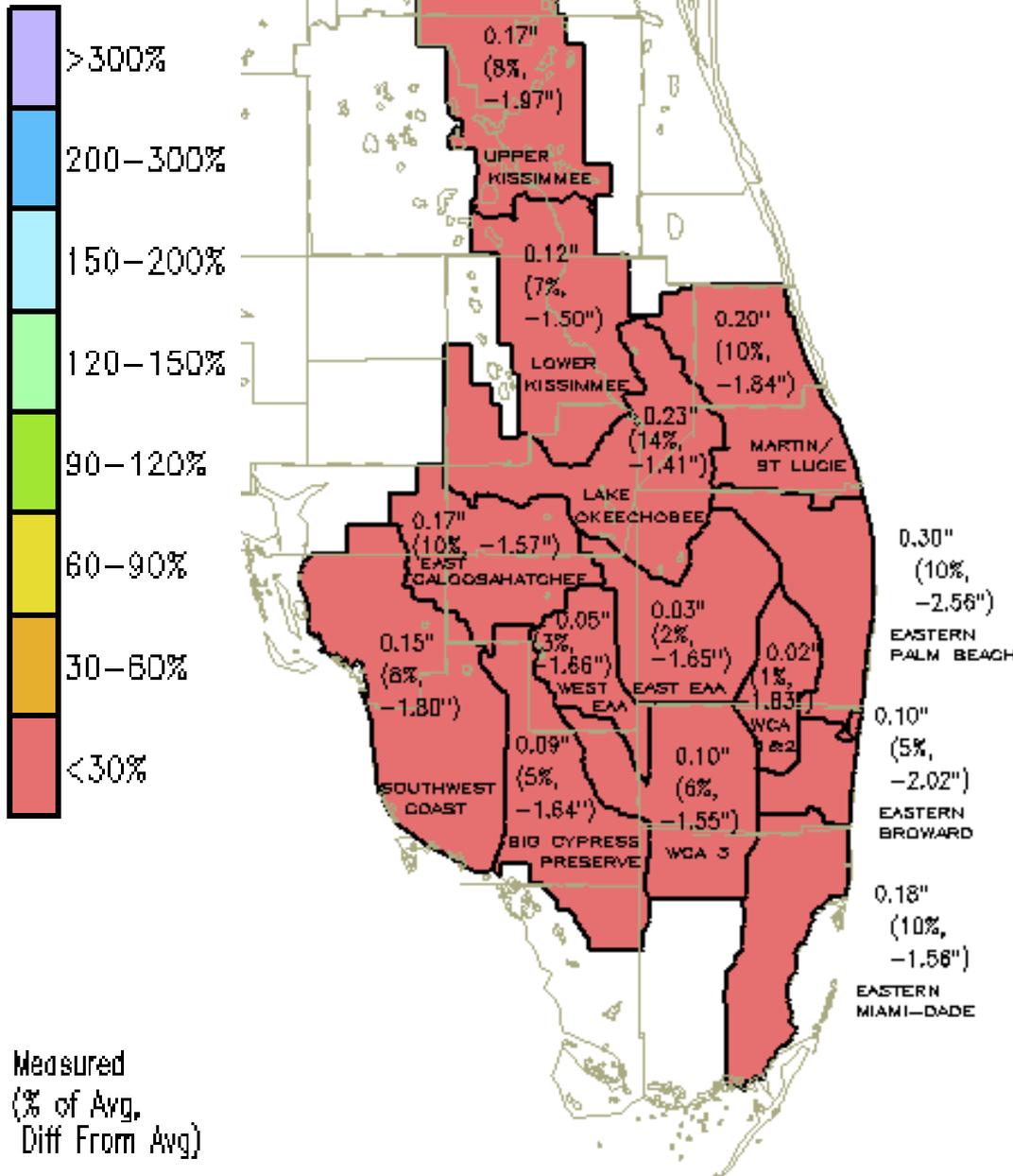
***February 9, 2012***

***Tommy B. Strowd, P.E., Director  
Operations, Maintenance & Construction Division***

# SFWMD 2011 January Rainfall

02Dec2011 – 01Jan2012

**DISTRICT-WIDE: 0.16"**  
**(9% of Avg, or -1.71")**



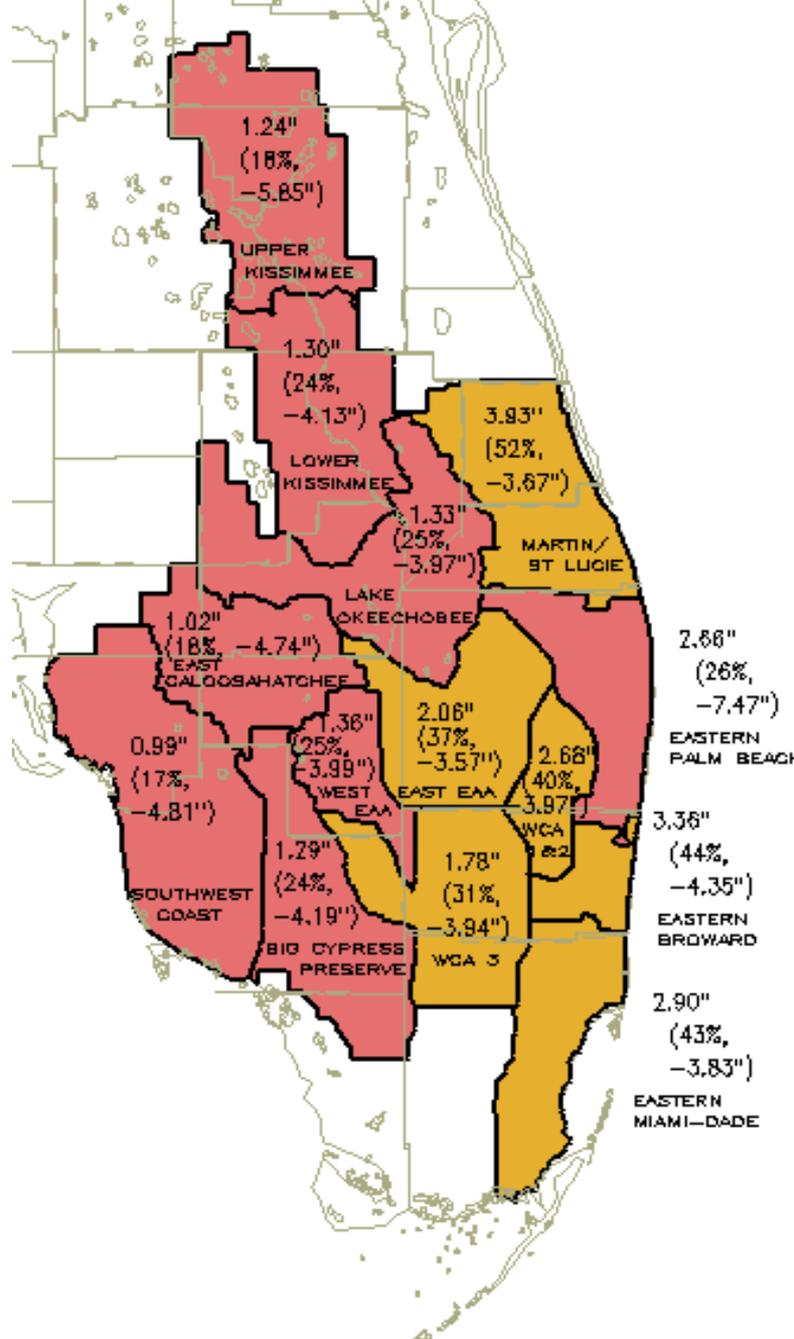
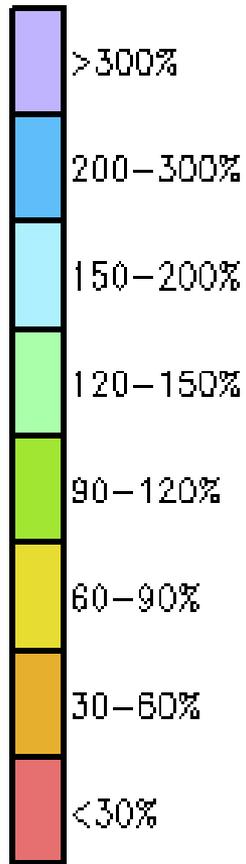
- Less than 10% of average rainfall in majority of basins
- Driest January from Orlando to the Florida Keys since recordkeeping began in 1932

Measured  
(% of Avg,  
Diff From Avg)

# SFWMD 2011-12 Dry Season Rainfall

02Nov2011 – 02 Feb 2012

## DISTRICT-WIDE: 1.81" (29% of Avg, or -4.45")



Measured  
(% of Avg,  
Diff From Avg)

- All Basins received less than average rainfall so far this dry season
- Palm Beach County has the largest deficient at -7.5 inches
- Above average rainfall in most basin in October is still a benefiting the regional water resources despite the dryer conditions thus far as compared to last year at this time:
- 2011 Nov – Jan 4.8" ( 78% of Avg, or – 1.38 ")



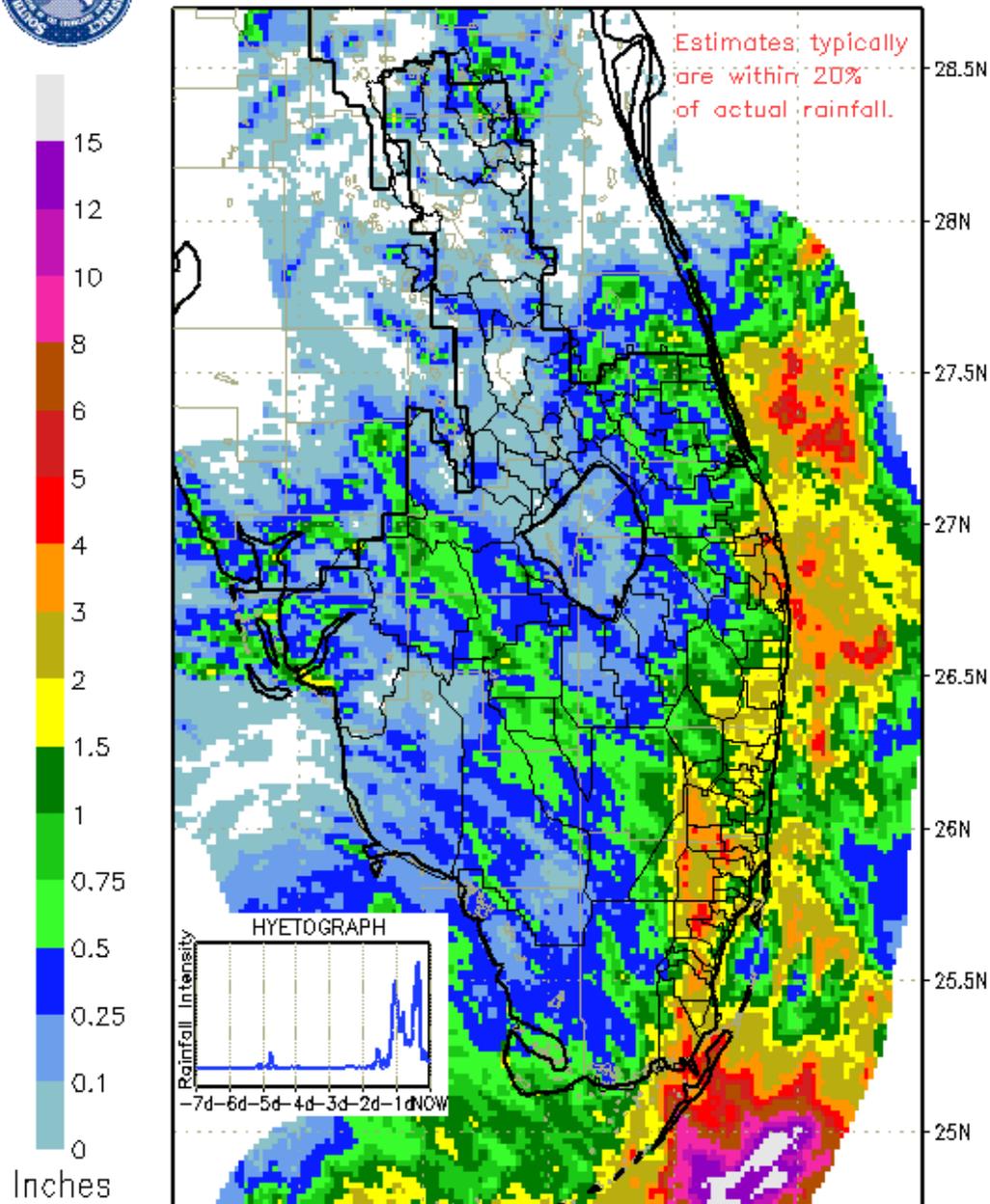
# SFWMD RAINDAR 7-DAY RAINFALL ESTIMATES

FROM: 1230 EST, 01/31/2012 THROUGH: 1230 EST, 02/07/2012

# February 2012 Rainfall

31-Dec-2011 – 07-Feb-2012

- About 0.7 inches during first week of February
- Highest rainfall along the lower east coast
  - 3"-4" in n.e. Palm Bch Co
  - up to 3.7" in Broward
  - 3"-4.5" in Miami Dade



**C-102 Basin Homestead**  
**Flooding conditions for Farms located West of SW. 112 Ave & South of SW. 268 ST**  
**Feb. 7, 2012**



**C-102 Basin Homestead**  
**Flooding conditions of farms South of 268 ST. & SW. 107 Ave**  
**Feb. 7, 2012**

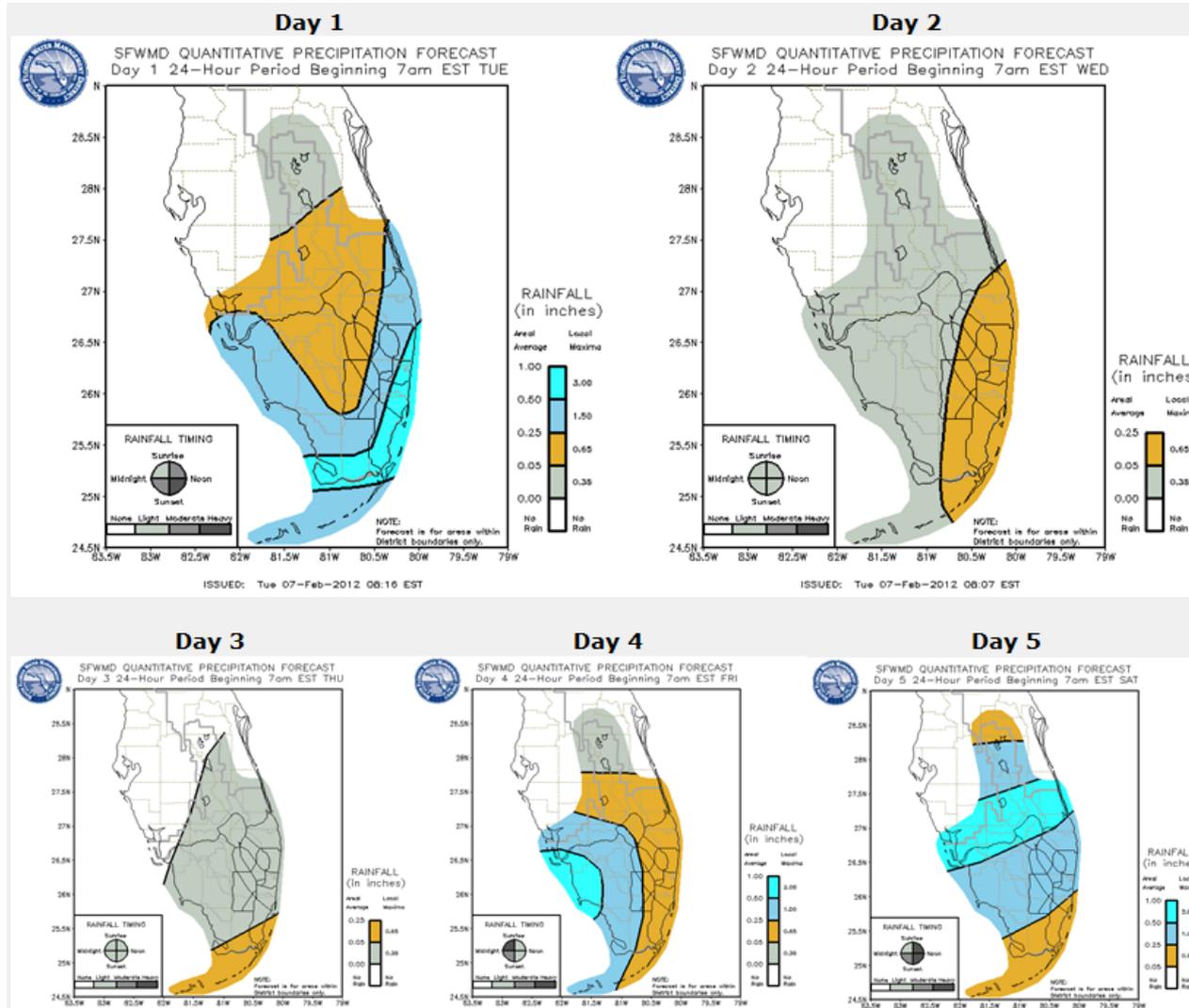


**C-102N Basin Homestead**  
**Flooding conditions of farms West of SW. 112 Ave & SW. 248 ST.**  
**Feb. 7, 2012**



# SFWMD Forecast

## Quantitative Precipitation Forecast (QPF)



# U.S. Drought Monitor

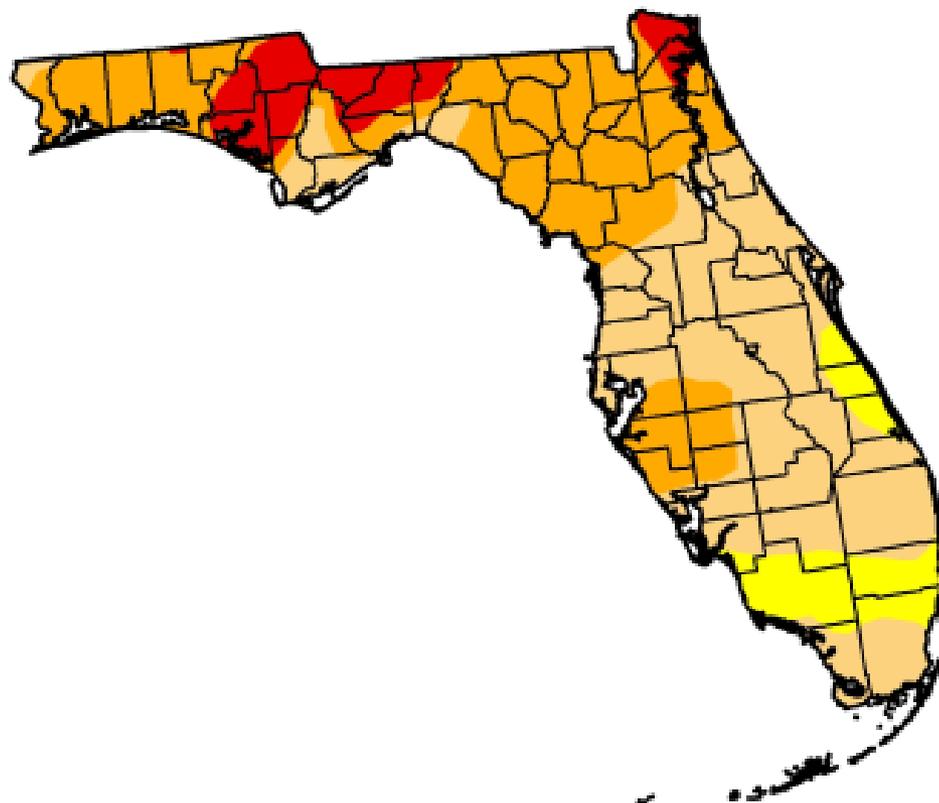
January 31, 2012

Valid 7 a.m. EST

## Florida

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	90.50	45.06	9.22	0.00
Last Week (01/24/2012 map)	0.00	100.00	85.28	33.03	9.22	0.00
3 Months Ago (11/01/2011 map)	62.98	37.02	26.16	18.36	7.98	0.00
Start of Calendar Year (12/27/2011 map)	38.81	61.19	27.41	12.84	2.61	0.00
Start of Water Year (09/27/2011 map)	43.12	56.88	28.83	16.85	7.85	0.00
One Year Ago (01/25/2011 map)	0.17	99.83	87.73	54.25	20.96	0.00



Intensity:

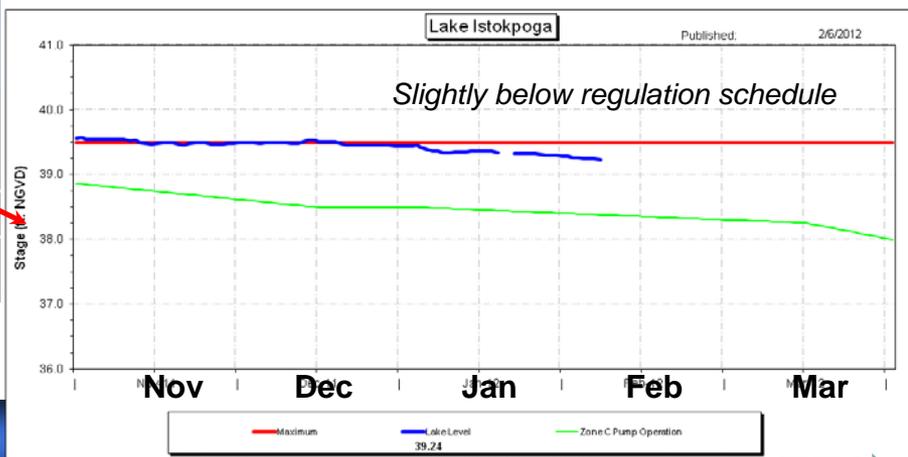
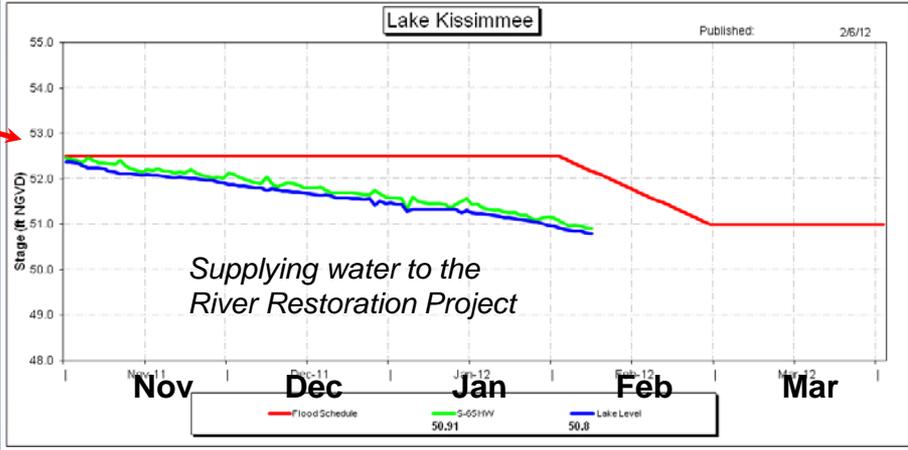
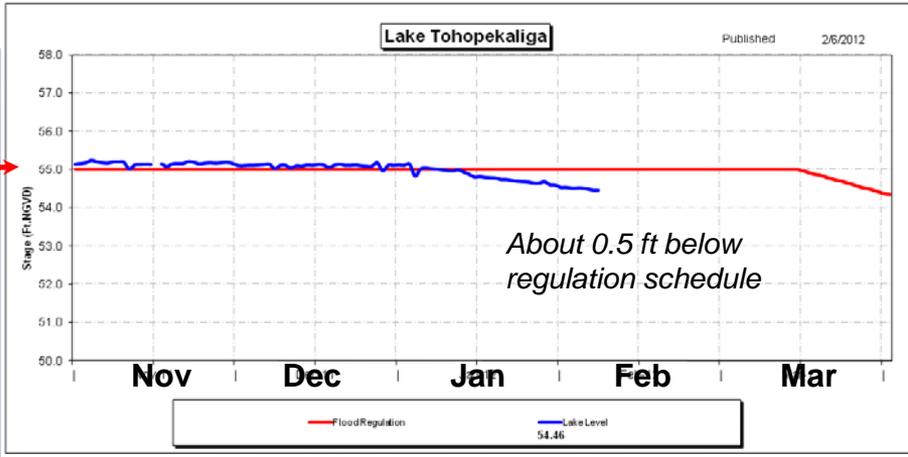
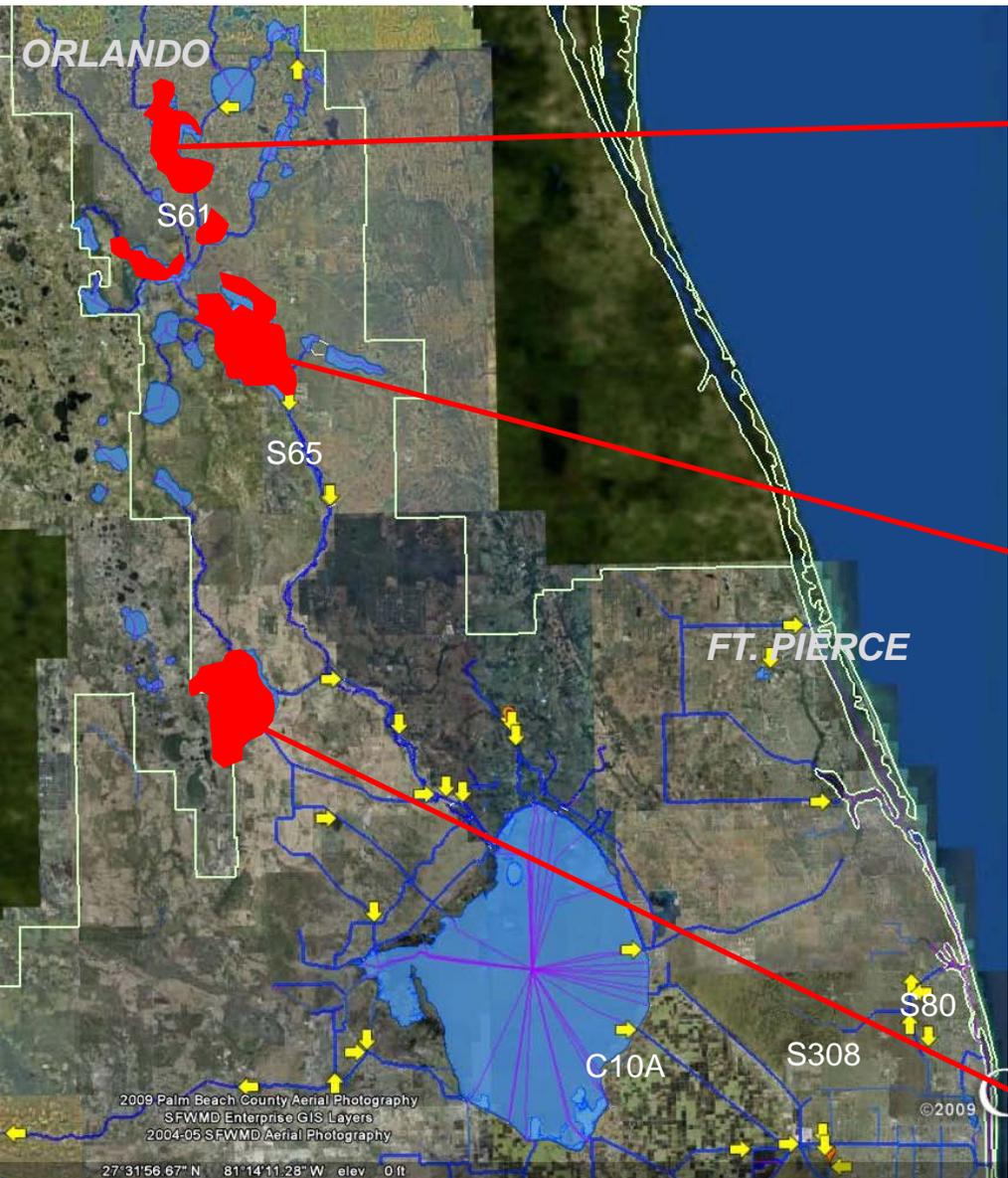
-  D0 Abnormally Dry
-  D1 Drought - Moderate
-  D2 Drought - Severe
-  D3 Drought - Extreme
-  D4 Drought - Exceptional

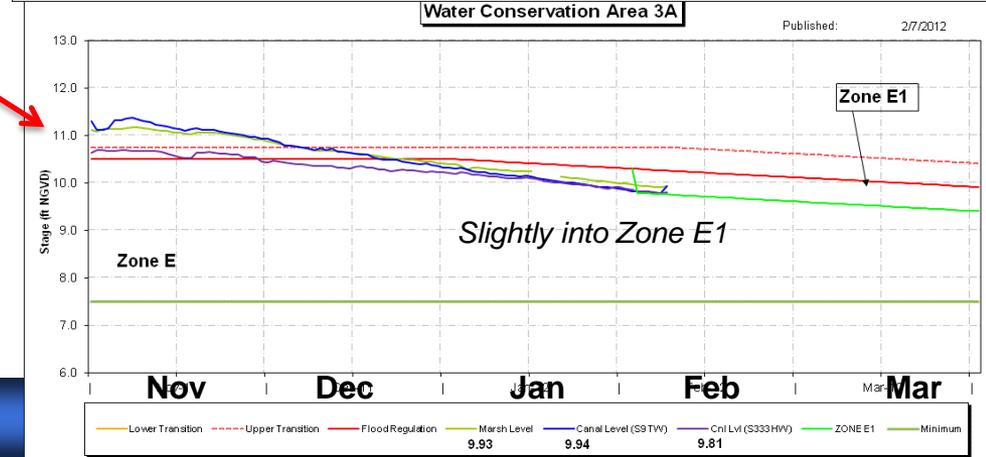
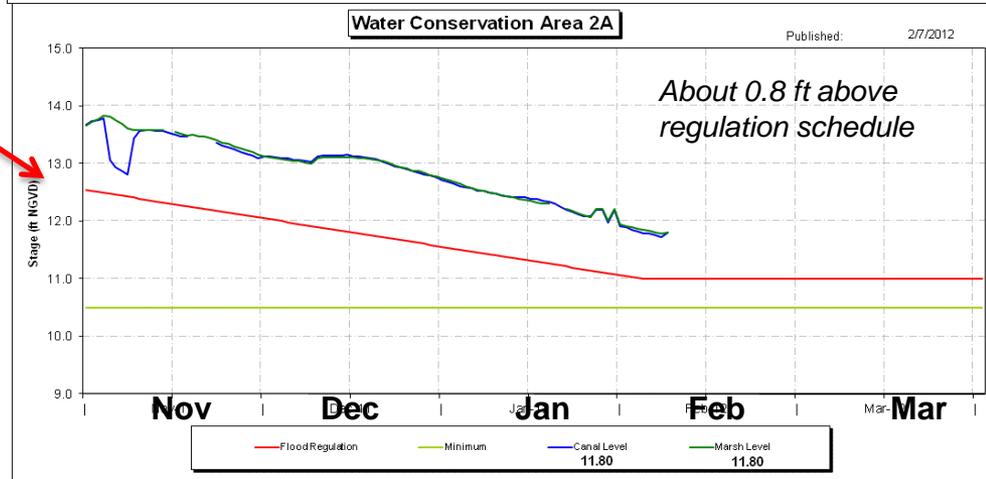
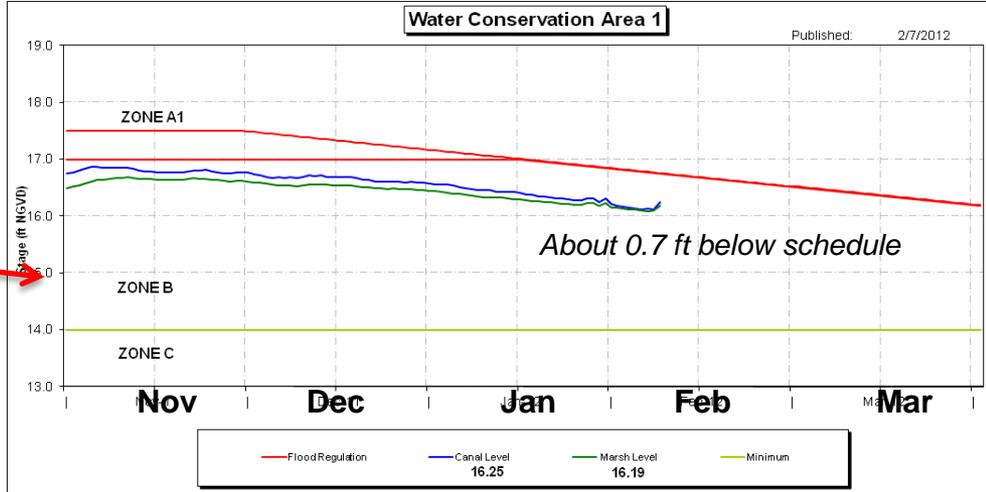
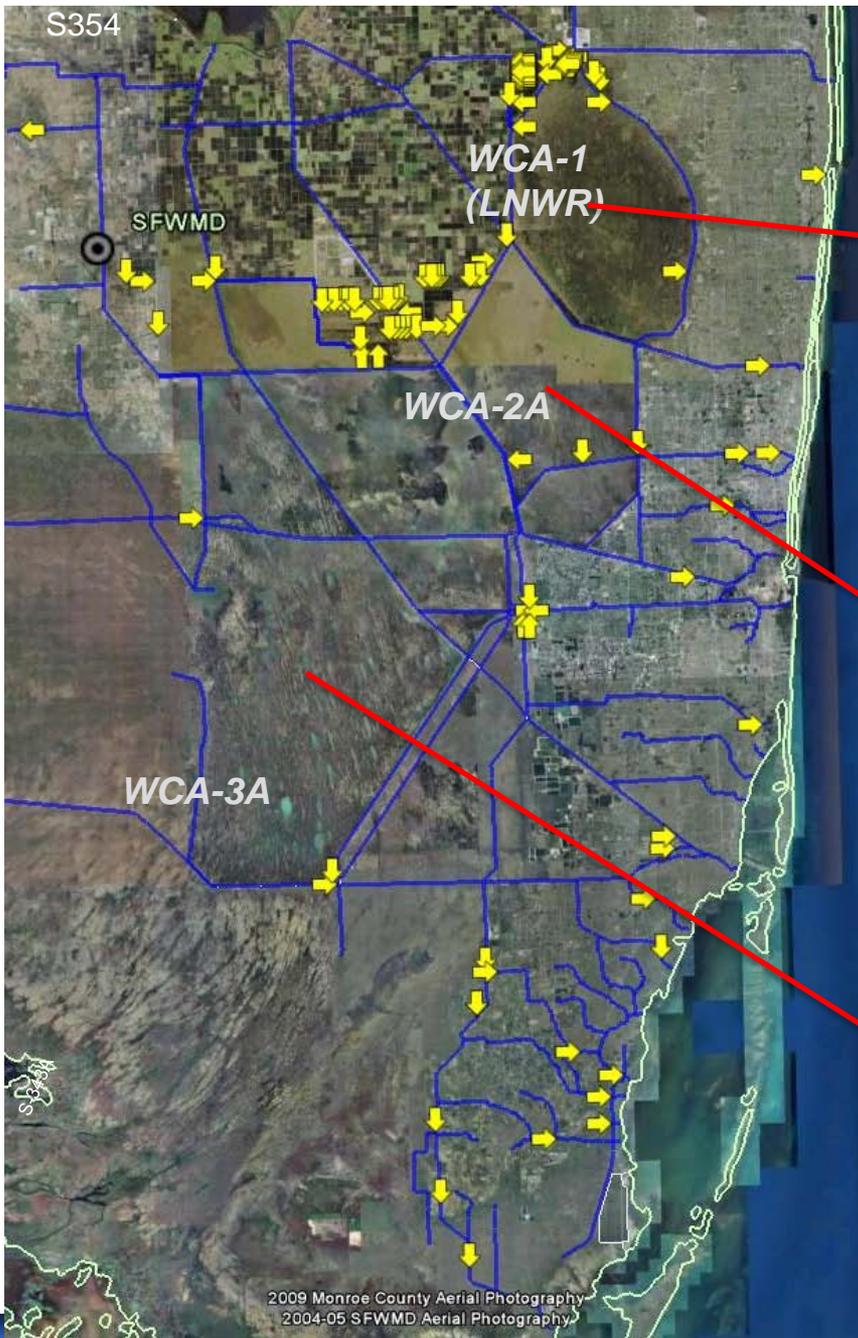
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>

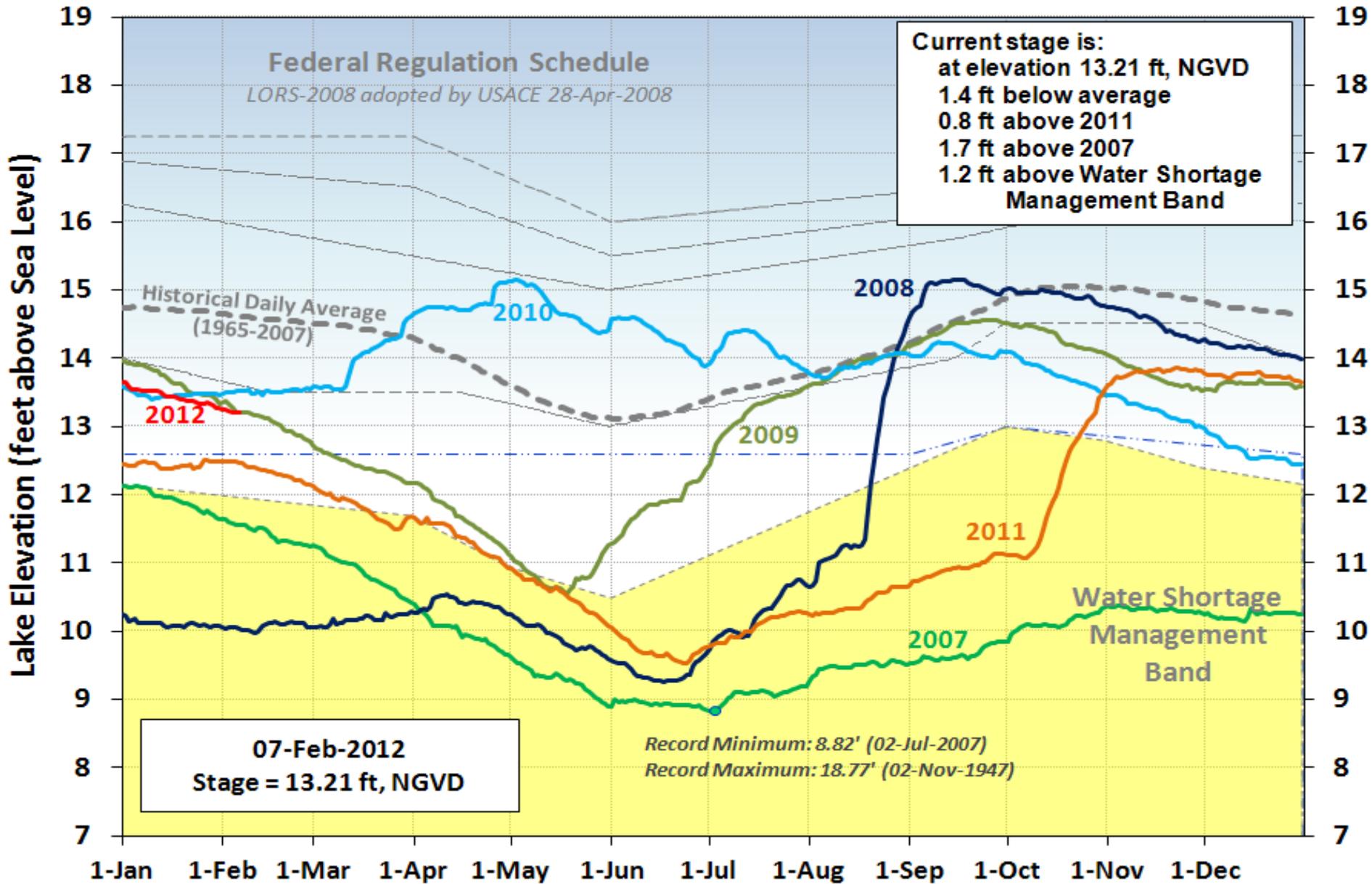


Released Thursday, February 2, 2012  
Eric Luebehusen, USDA





# Lake Okeechobee Water Level Comparison

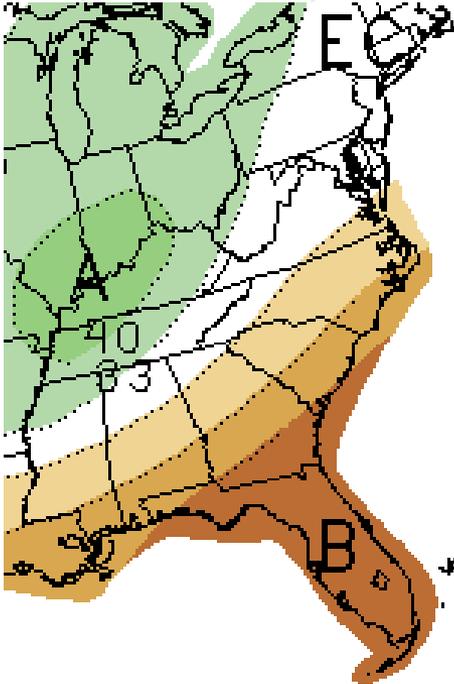


# U. S. Seasonal Precipitation Outlook

National Climate Prediction Center (CPC)

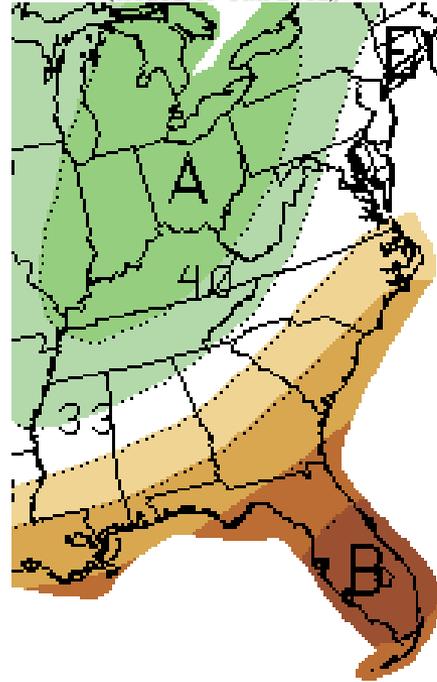
## Feb 2012

(issued 31-Jan 2012)



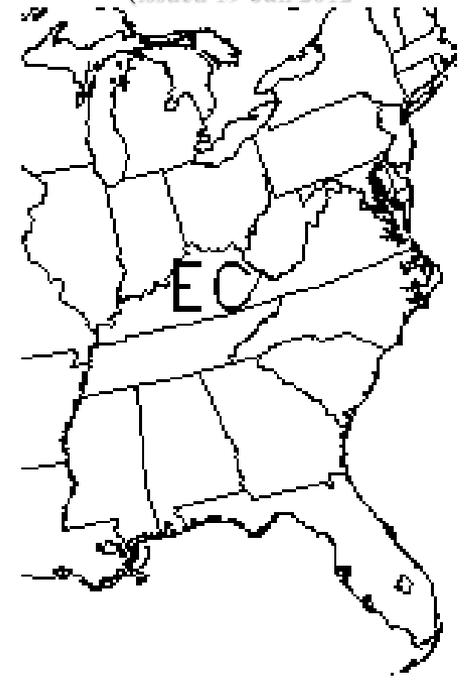
## Feb - Apr 2012

(issued 19-Jan 2012)



## May - Jul 2012

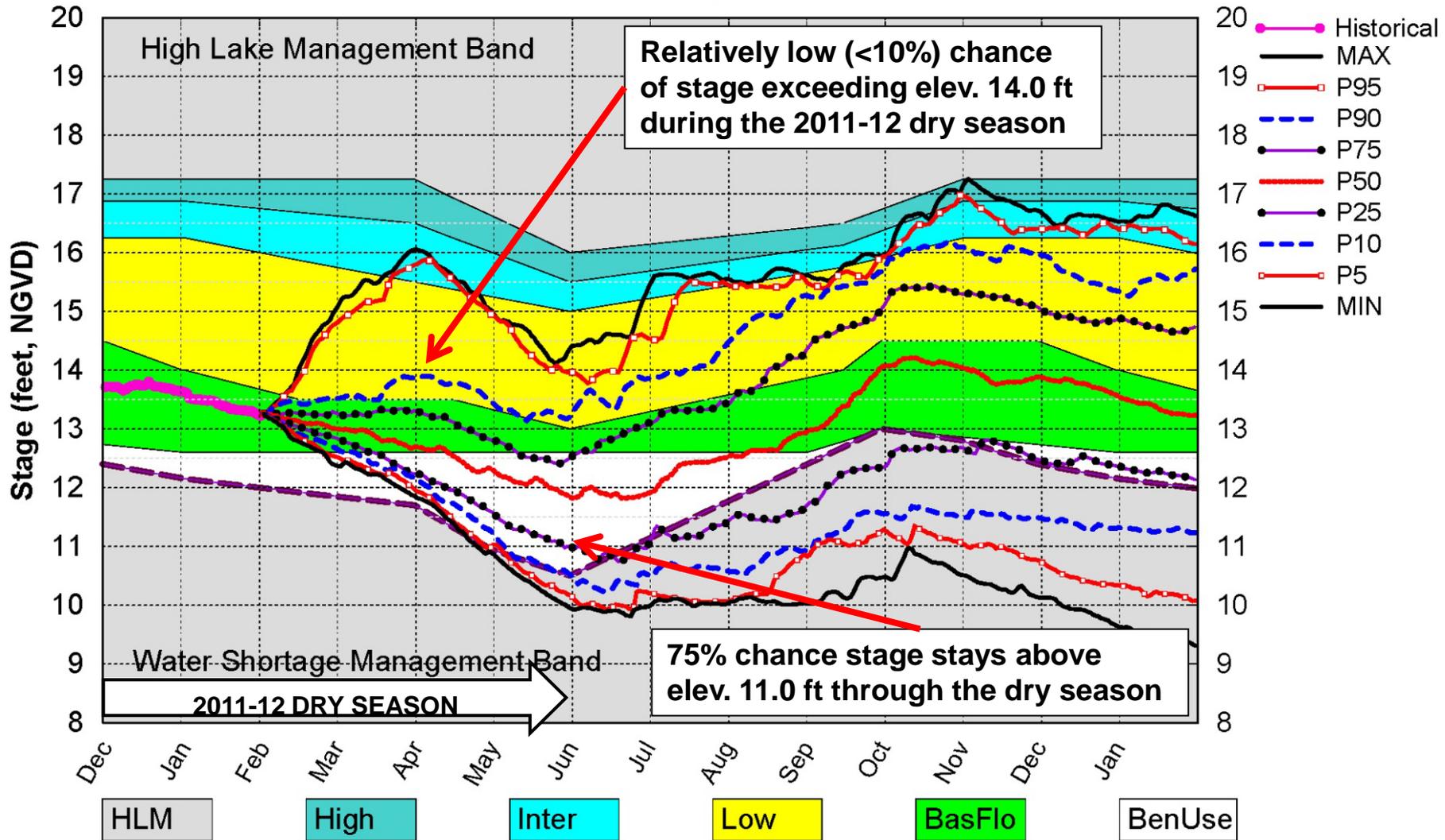
(issued 19-Jan 2012)



The current CPC precipitation outlook for central and southern Florida is for increased chances of below-normal (B) rainfall for the remainder of the 2011-12 dry season. Feb - Apr shows highest probabilities (>50%)

# Lake Okeechobee SFWMM February 2012 Position Analysis

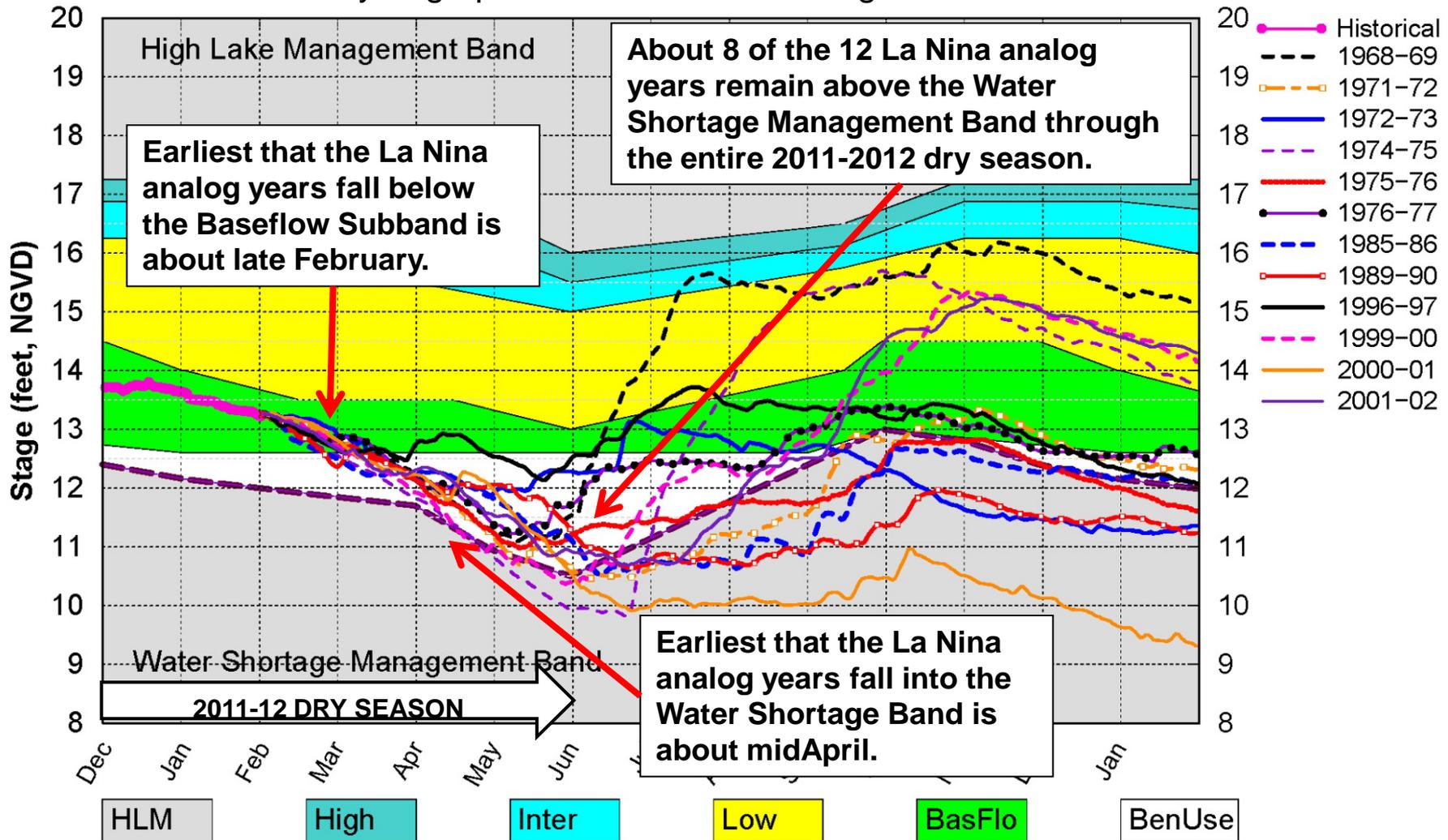
Percentiles based on 41 possible outcomes starting with February 1<sup>st</sup> initialization



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM February 2012 Position Analysis

## Hydrographs for 12 La Nina Analog Years



(See assumptions on the Position Analysis Results website)

# ***Lake Okeechobee: Current Operations***

- **USACE's Lake O Regulation Schedule (2008 LORS)**
  - Stage is within the Baseflow Subband
  - Release guidance suggests:
    - up to baseflow releases at S-79 (450) and S-80 (200)
    - No releases to the WCAs (Dry Tributary Hydrologic Conditions)
- **SFWMD's Lake O Adaptive Protocol (2010)**
  - Release guidance currently suggests up to 450 cfs baseflow releases to the Caloosahatchee Estuary
    - Lake Stage is in the Baseflow Subband
    - Val I75 Salinity forecast (30-day moving avg) > 5 psu within next two weeks
    - Less than 50% chance Lake stage will fall below elevation 11.0 ft during the dry season
  - Feb 8<sup>th</sup>: SFWMD requested the USACE to initiate 9<sup>th</sup> consecutive week of 450 cfs baseflow releases

# Questions