

***Consideration of an Order Denying  
a Variance to Water Shortage  
Order No. 2007-870-DAO-WS, which imposed  
Modified Phase III water restrictions  
Item 50A***

***South Florida Water Management District  
March 13, 2008***



***sfwmd.gov***

# **South Martin Regional Utility Town of Jupiter Island & Hobe Sound**

- **SMRU modified their application and requests all users within Service Area be allowed Phase II (two-day a week) irrigation**
- **SMRU believes proposed restrictions will achieve same level of demand reduction**
- **SMRU believes condition of water resources do not warrant Phase III restrictions**

# Upper East Coast Water Savings - 2007

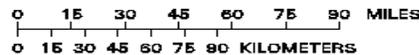
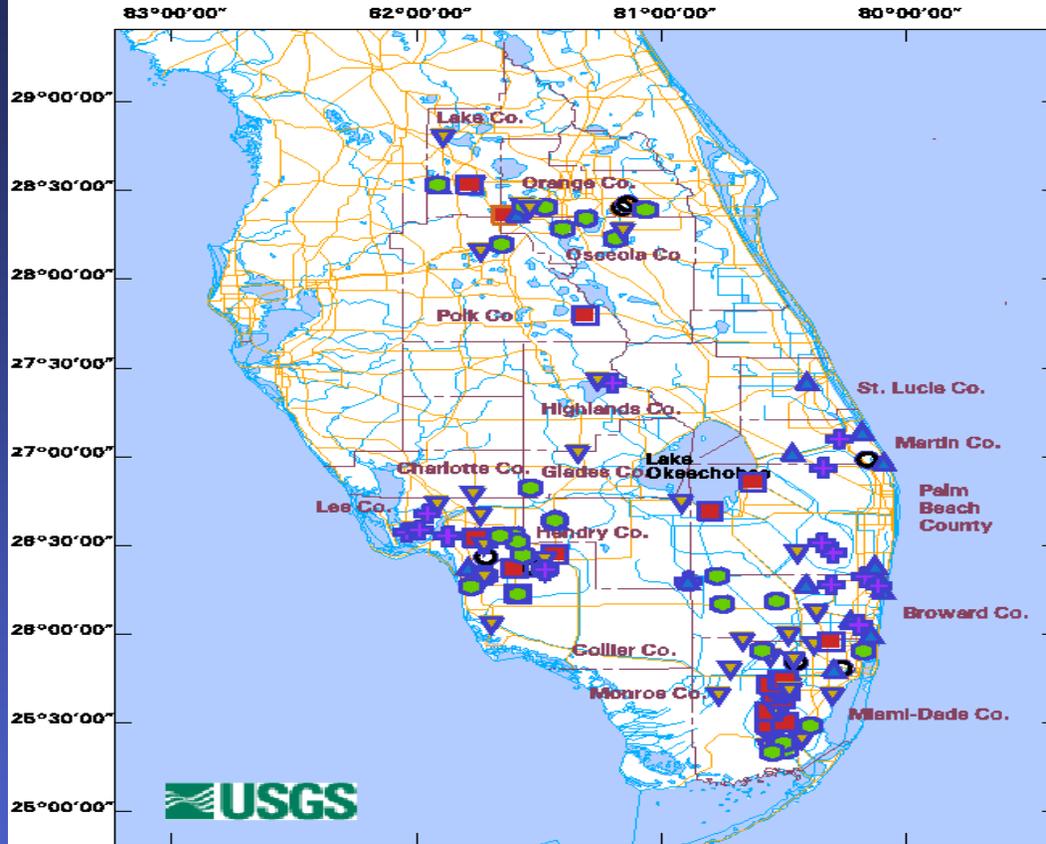
	Demand (MGD)					Reduction (%)			
	Pre-Restrictions	Phase I	Phase II	Jan 08	Feb 08	Phase I	Phase II	Jan 08	Feb 08
<b>Martin County</b>									
Martin County	10.3	9.5	8.86	7.88	8.27	7.5	13.8	23.5	19.7
Stuart	3.6	3.3	2.88	2.72	2.55	7.5	20.2	24.4	29.2
South Martin Regional	4.1	3.4	3.10	3.08	3.13	16.6	24.6	24.9	23.7
<b>Total</b>	<b>18.0</b>	<b>16.3</b>	<b>14.8</b>	<b>13.7</b>	<b>14.0</b>	<b>9.6</b>	<b>17.6</b>	<b>24.0</b>	<b>22.5</b>

# **South Martin Regional Utility Town of Jupiter Island & Hobe Sound**

- **Permitted allocation is 8.7 MGD - about 80% is from Surficial aquifer**
- **Capacity of the Reverse Osmosis facility is 2 MGD**
- **Based on 2007 Phase II savings, SMRU proposed restrictions could generate water savings of 24.6%**
- **January/February 2008 Phase III savings average 24.3%**
- **Staff agree that the SMRU model and results are reasonable**

# Water levels in South Florida 3/12/08

PROVISIONAL DRAFT – Subject to Revision

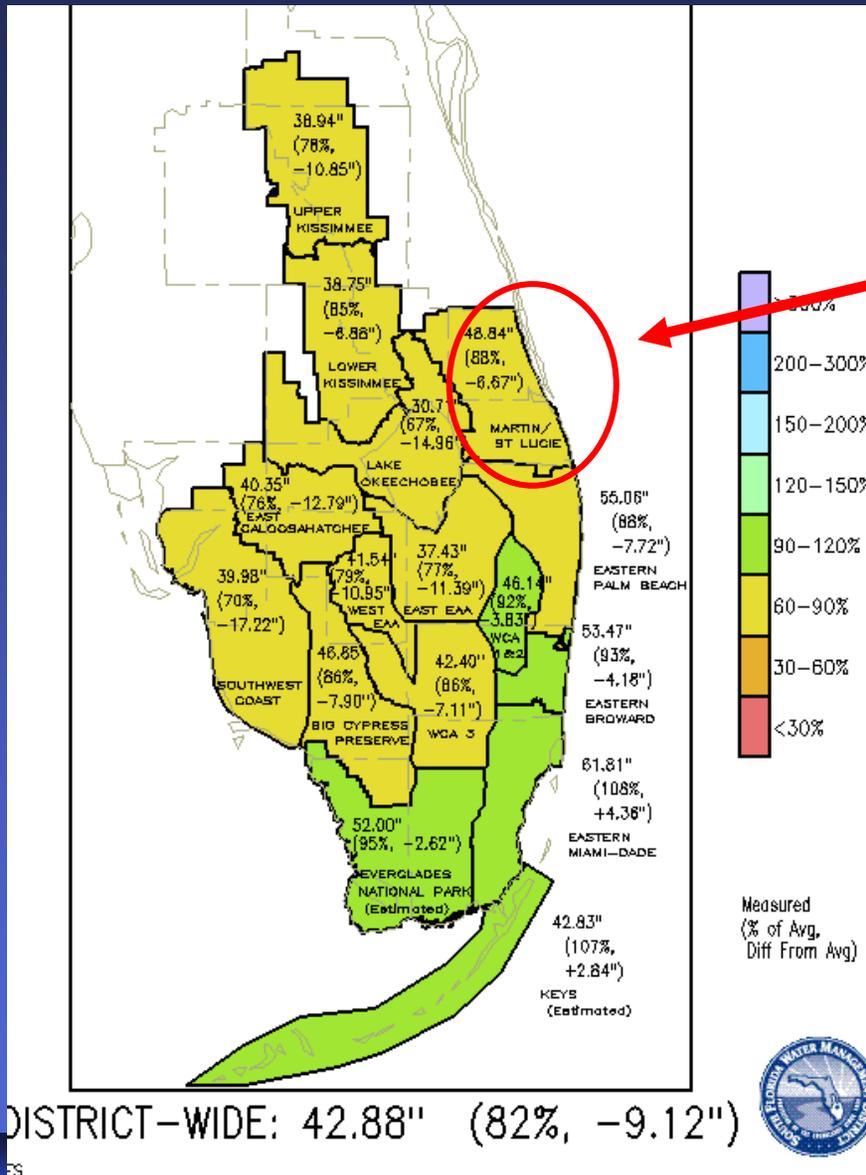


- Rivers and canals
- Roads and highways
- County boundaries
- Telemetry site

- Water level compared to historical data, after long-term trends are removed:
- Insufficient information available to compute water-level statistics
  - In lowest 10 percent of past water elevations
  - Within lowest 10 to 30 percent of past water elevations
  - Within 20 percent of the median of past water elevations
  - Within highest 10 to 30 percent of past water elevations
  - In highest 10 percent of past water elevations

Water levels at selected sites in South Florida,  
Based on PROVISIONAL DATA, as of March 12, 2008.

# Rainfall within SFWMD: 1/2/07 – 1/1/08



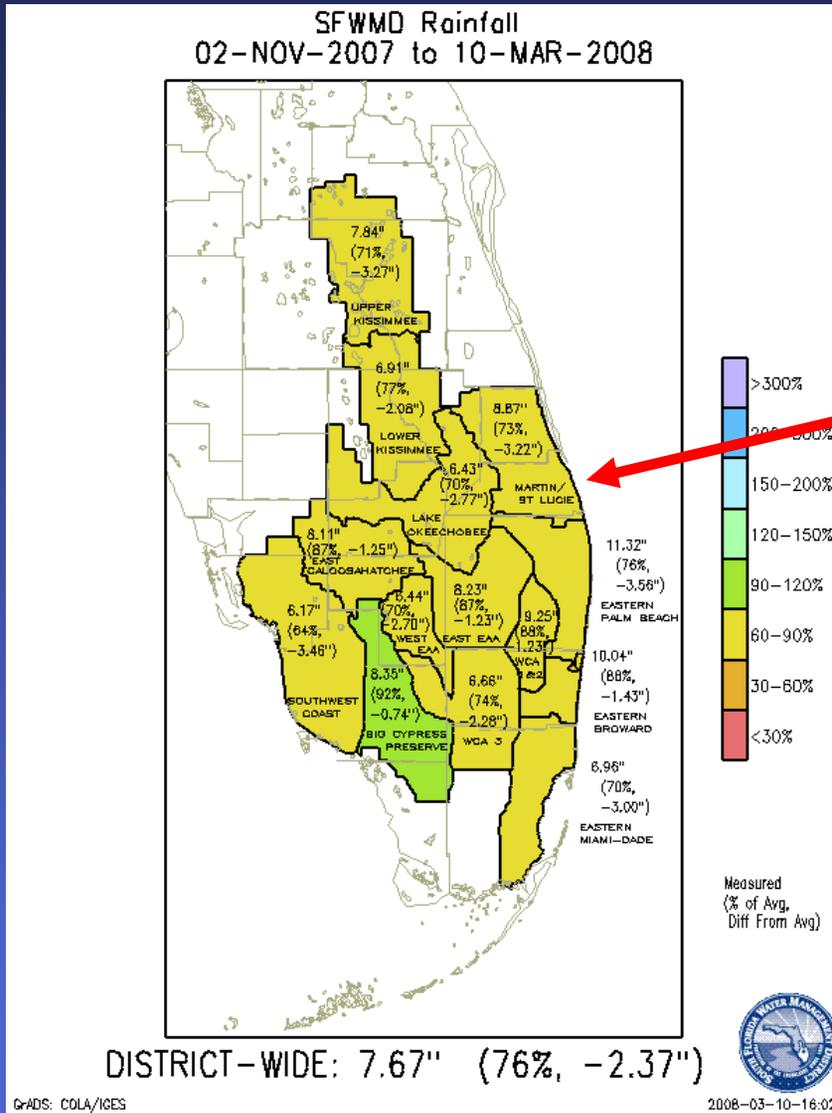
**Martin / St. Lucie Basin**

**Rainfall in 2007 =  
88% of normal**

**-6.67 inches**



# Rainfall within SFWMD: 11/2/07 - to 3/10/08

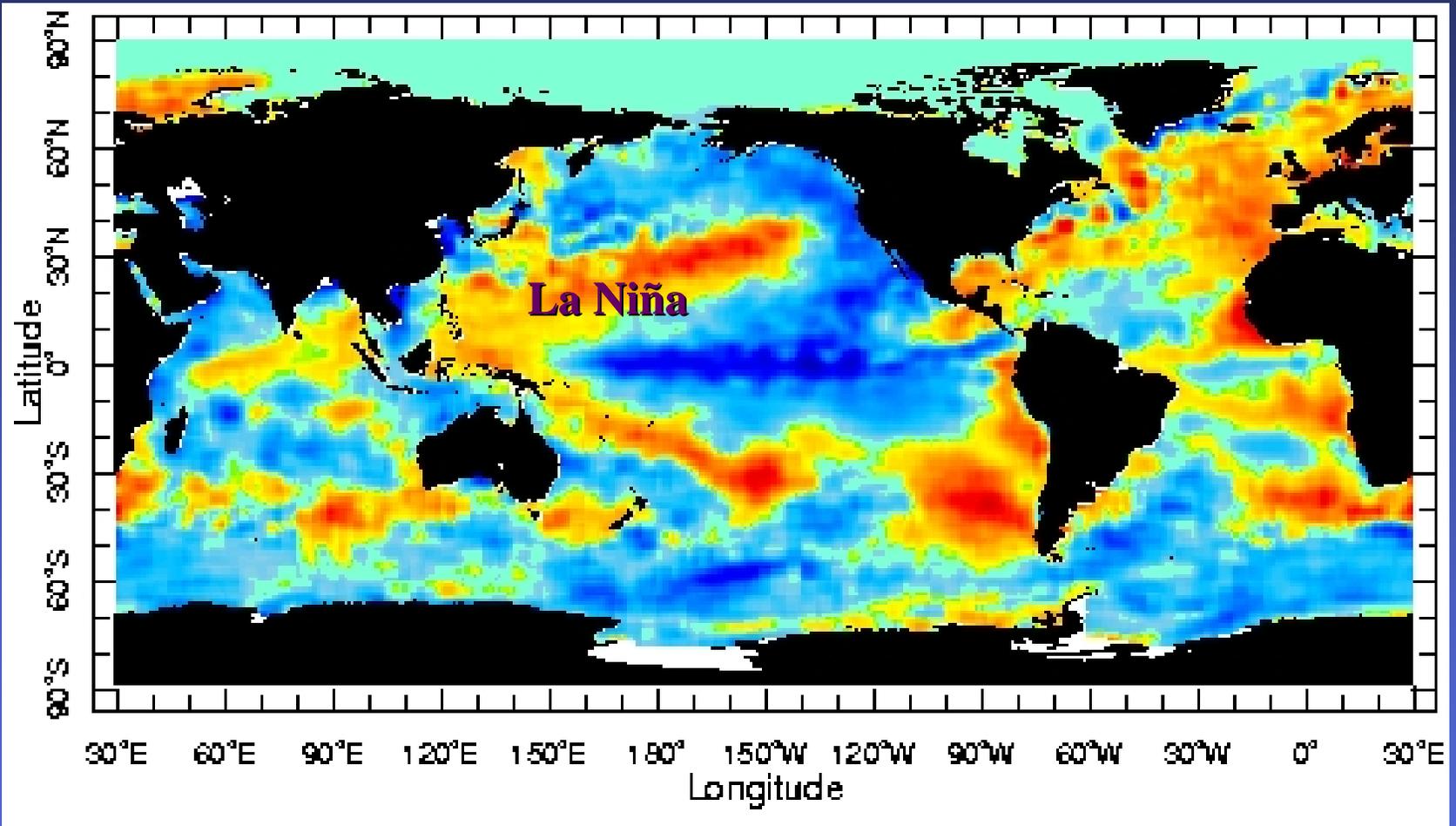


**Martin / St. Lucie Basin**

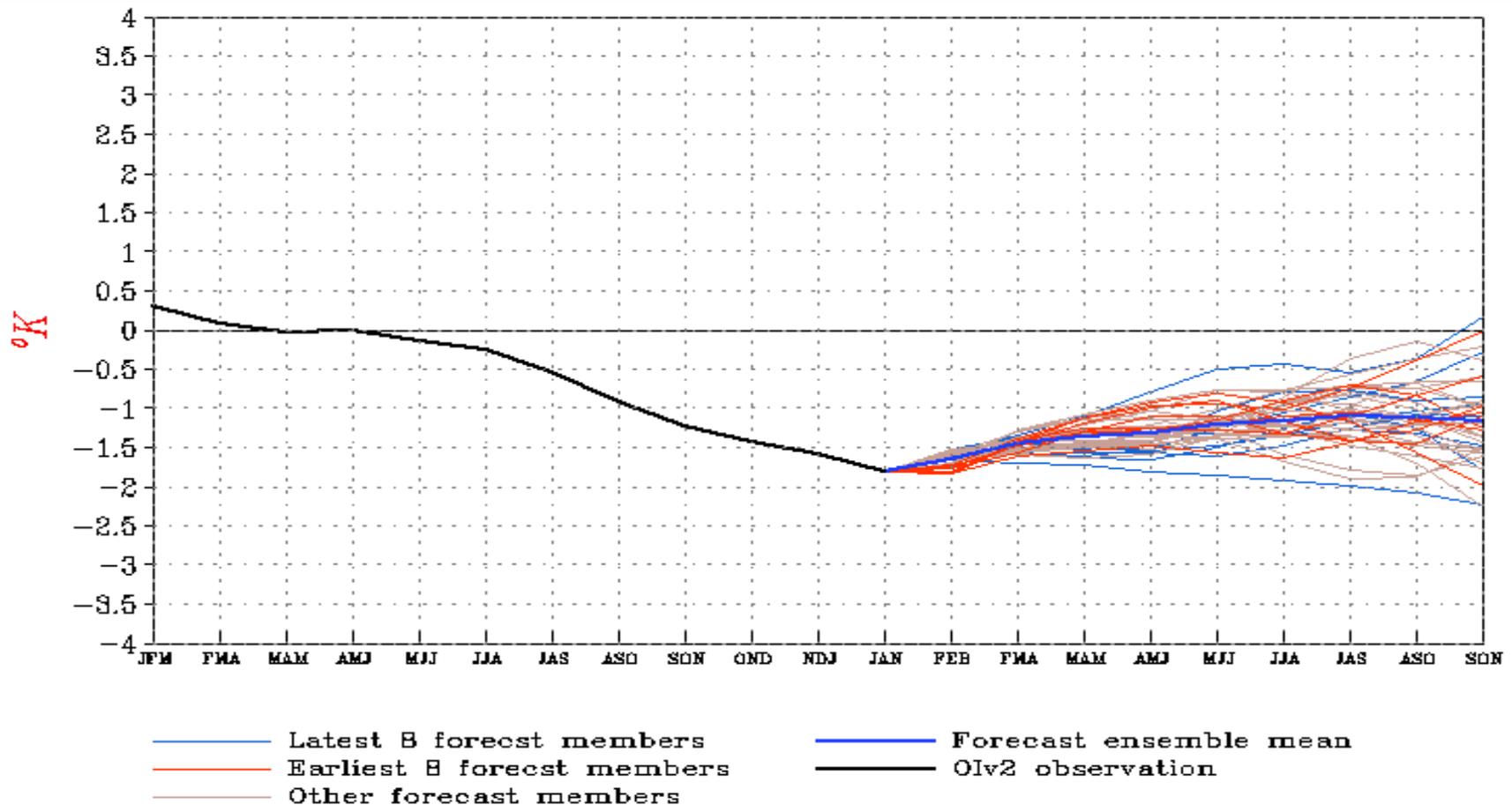
**Dry Season Rainfall to Date = - 3.22 inches**

**73% of normal**

# La Niña Impacts on Dry Season



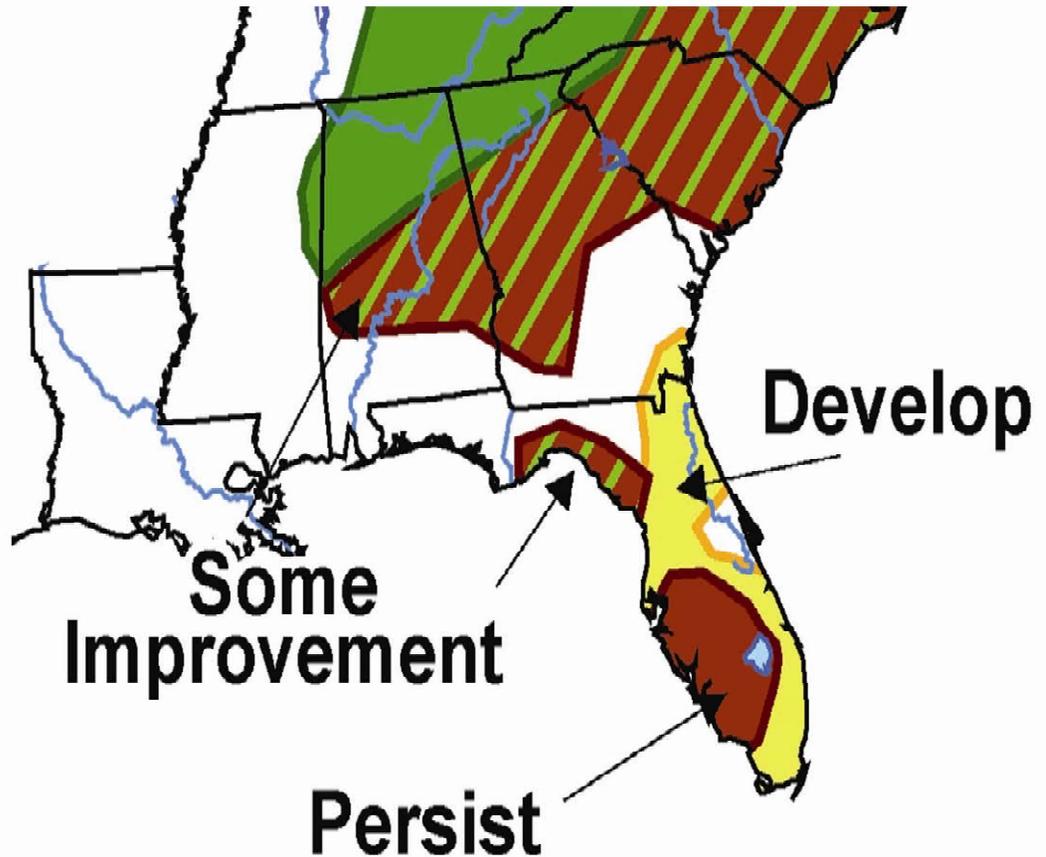
# La Niña Forecasted to Last into Next Dry Season



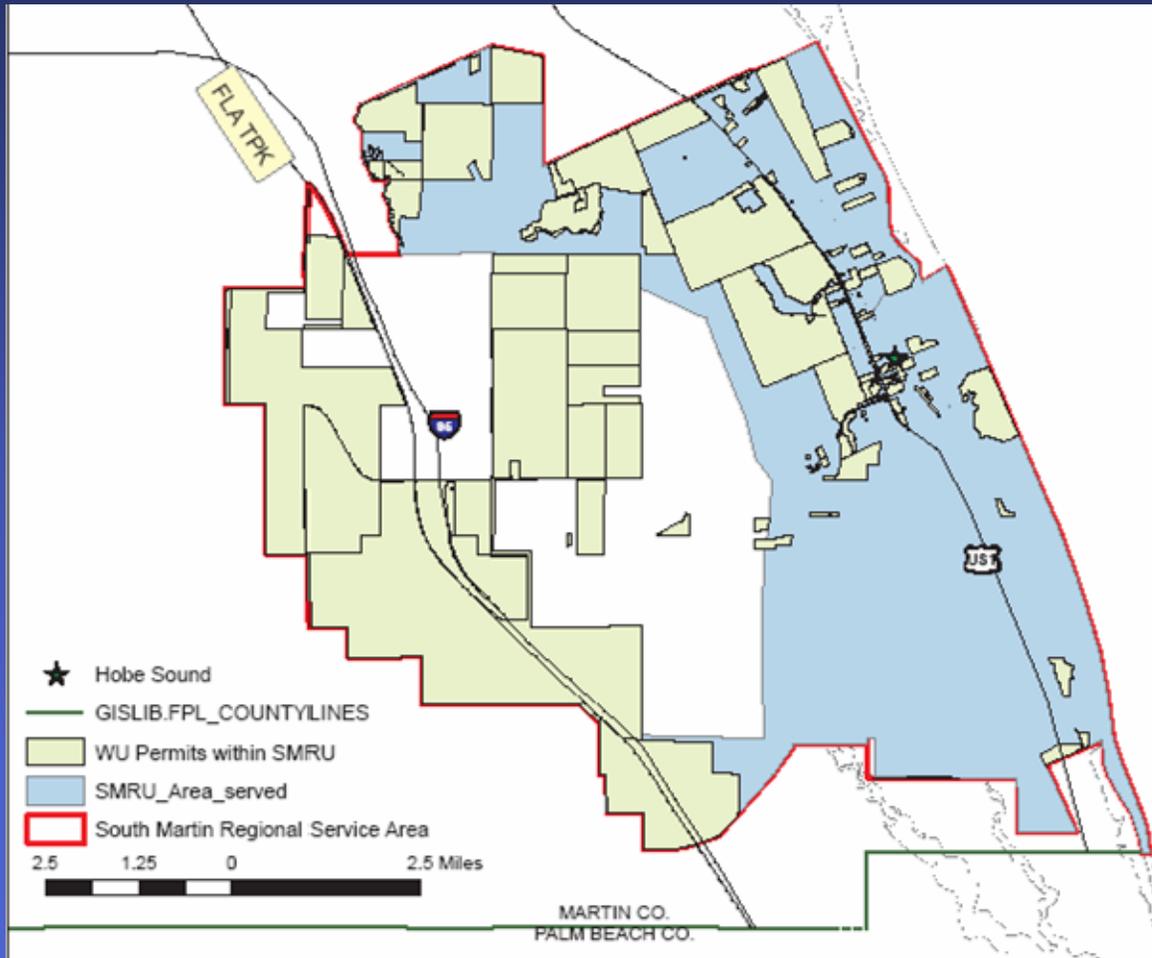
# Drought Conditions also Expected to Persist

## **KEY:**

-  Drought to persist or intensify
-  Drought ongoing, some improvement
-  Drought likely to improve, impacts ease
-  Drought development likely



**Other water users in the area served by SMRU:**  
**100 water use permits**  
**10.5 MGD from traditional sources**



# **South Martin Regional Utility**

## **Town of Jupiter Island & Hobe Sound**

- **Previous Phase II water restrictions and rainfall in 2007 have helped maintain groundwater levels**
- **No connection to regional system - no back-up water sources**
- **Need to conserve & manage existing supplies**
- **Staff recommends denial**
- **Staff recommends a complete analysis of UEC and LEC water conditions with report on regional conditions to April Governing Board**

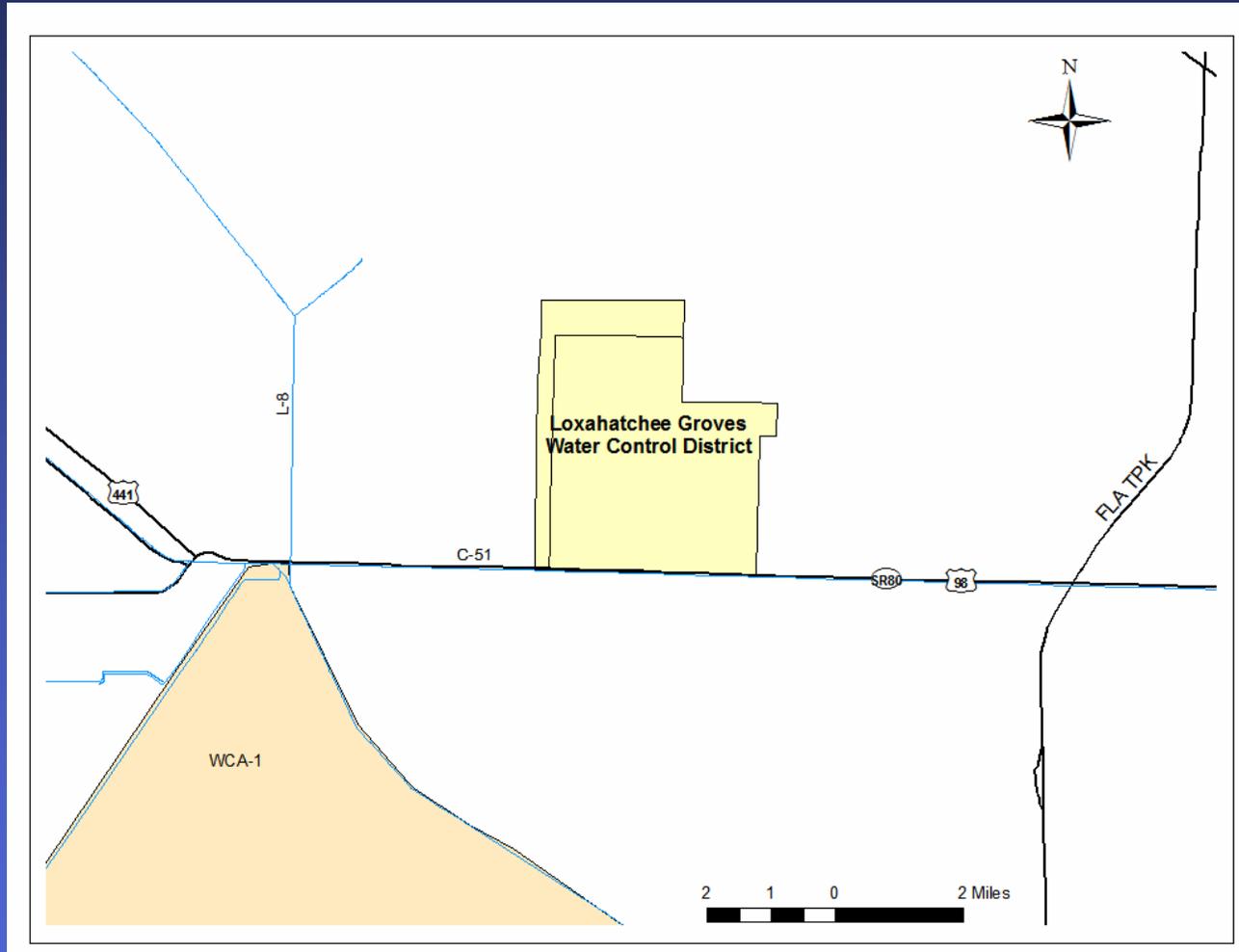
***Consideration of an Order Approving  
Two Variances to Water Shortage  
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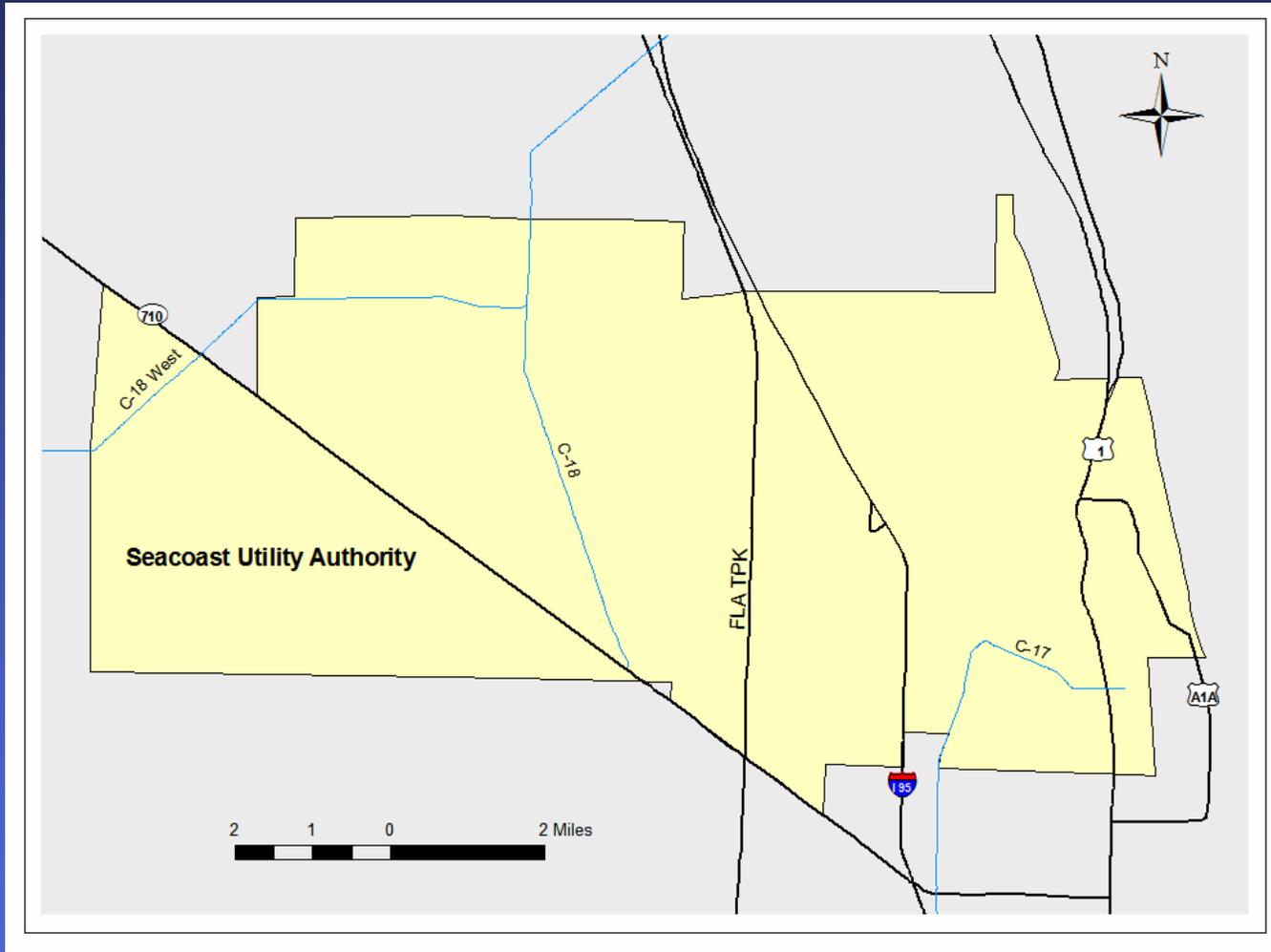
# Loxahatchee Groves Water Control District



# Loxahatchee Groves Water Control District

- Recommend approval
- Flexibility to take additional water from the C-51 Canal to maintain stage at 15.5' for fire protection
- Recommend LGWCD work with Town of Loxahatchee Groves to develop reliable method of fire protection

# Seacoast Utility Authority



# Seacoast Utility Authority

- Recommend approval
- Allow supplemented reclaimed water to be considered as 100% reclaimed water
- Volume of supplemental water is capped at:
  - GW - 14 MGM
  - SW – 23.6 MGM
- Ability to take additional water from C-17 when stage is above 7 and would be lost to tide
- Will not connect with NPB Golf Club until restrictions lifted

# Village of North Palm Beach Golf Course

- Variance was approved on the consent agenda
- Allows Village to take water from C-17 Canal when stage at S-44 head is 7'
- Utilizes water that would otherwise be lost to tide