

Water Shortage Planning Update

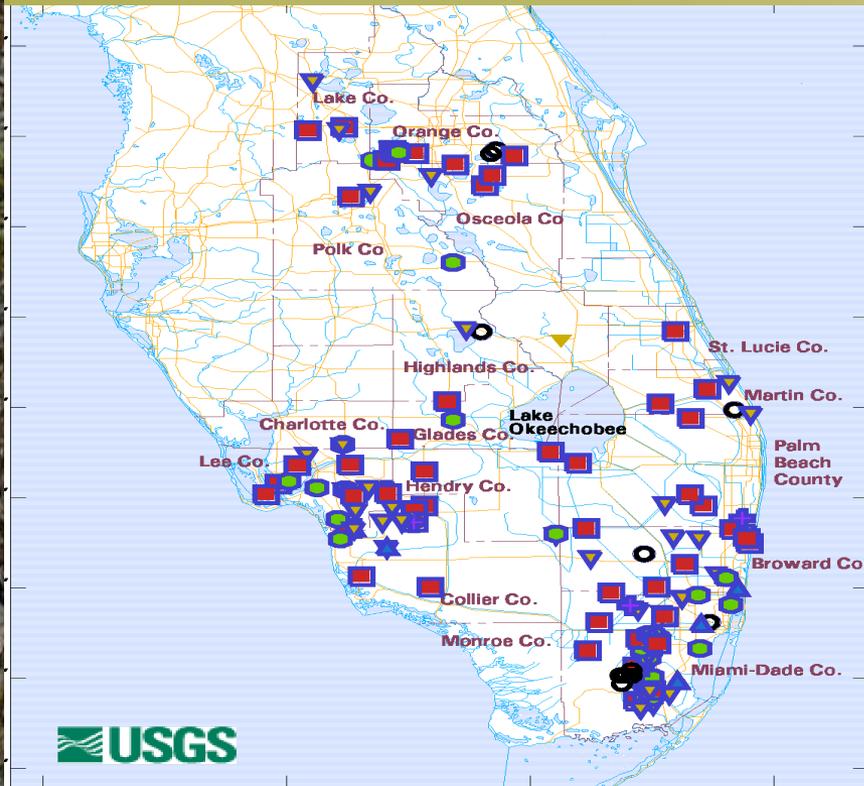


Peter J. Kwiatkowski, P.G.
Director, Resource Evaluation Division
South Florida Water Management District
February 10, 2011

Groundwater Levels

Jan. 5, 2011

Feb. 3, 2011

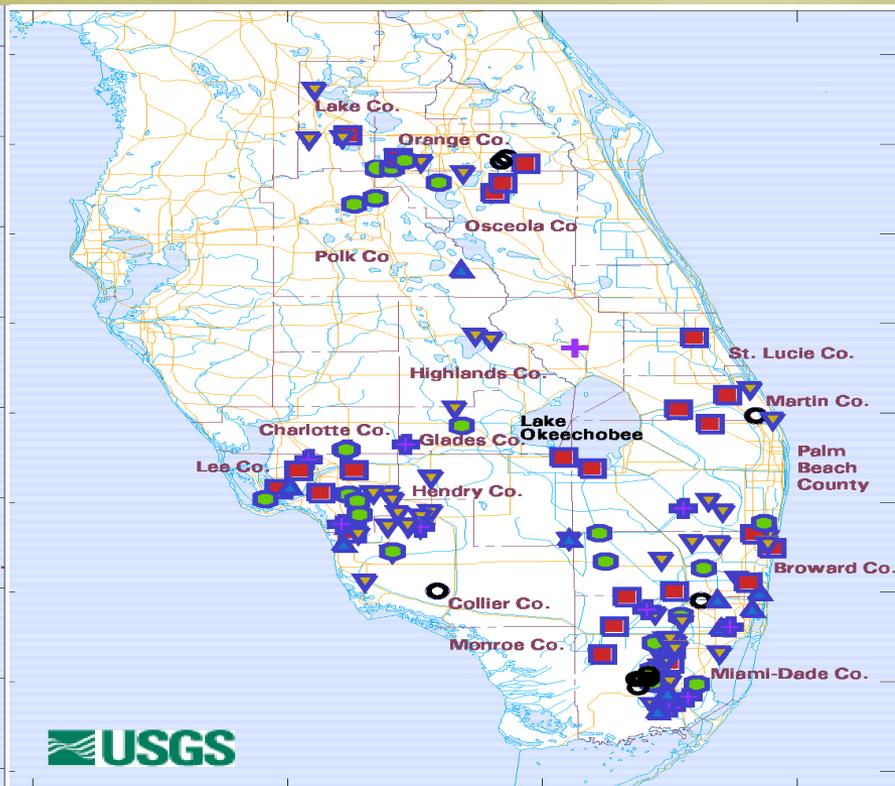


0 15 30 45 60 75 90 MILES
0 15 30 45 60 75 90 KILOMETERS

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 January 5, 2011.**



0 15 30 45 60 75 90 MILES
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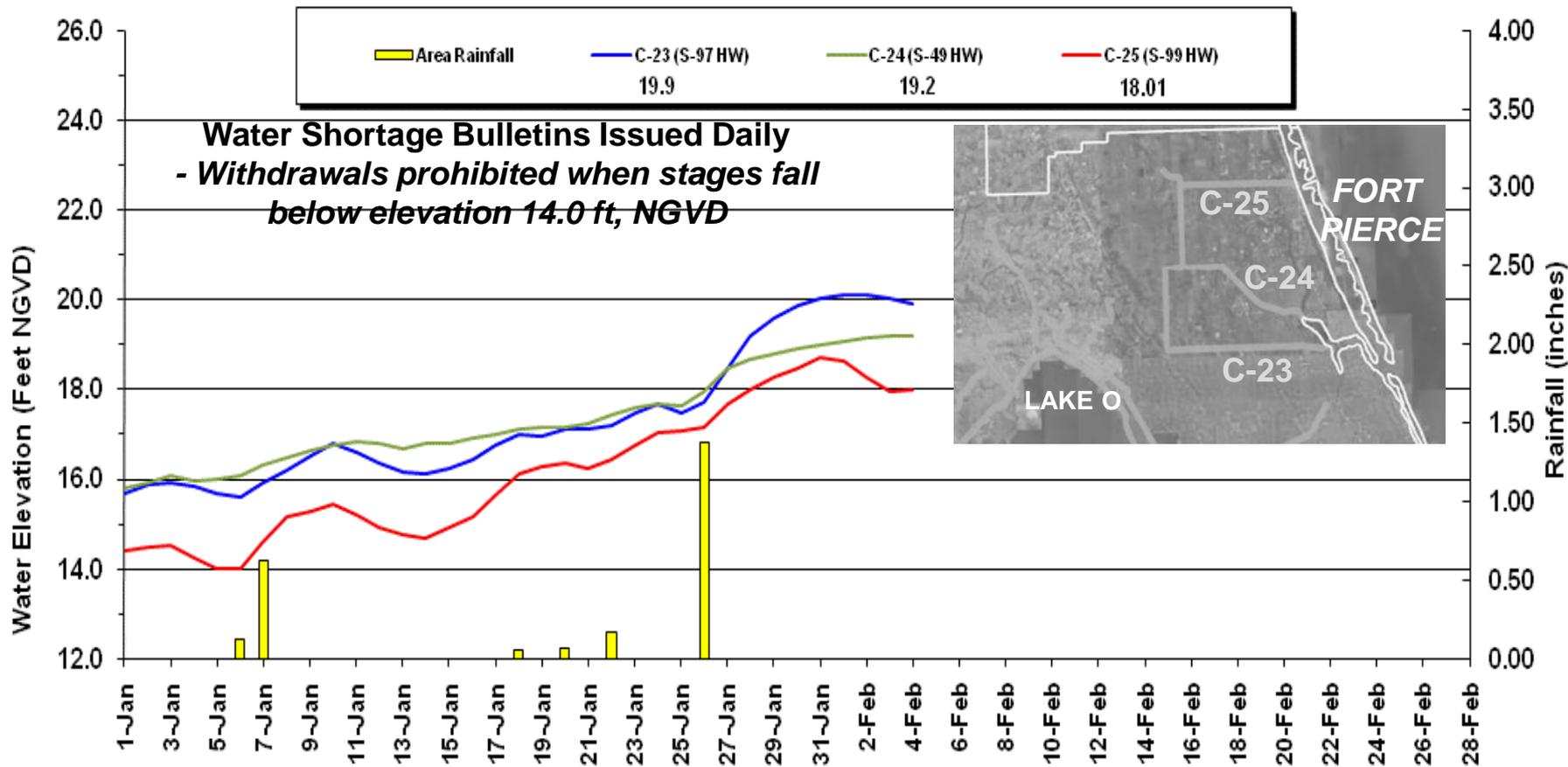
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**Water levels at selected sites in South Florida,
Based on PROVISIONAL DATA, as of February 3, 2011.**

St. Lucie County Canals



Published: 02/04/11 St Lucie Structures on C23, C24 & C25 Canals





What's Ahead for Water Supply?

- **Below-normal rainfall predicted due to strong La Niña**
- **Positive Change in LKO Tributary conditions due to recent rainfall**
- **Water levels resuming their dry season declines**

SFWMD Water Supply Risk Evaluation (Feb. 1, 2011)

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Beneficial Use Sub-Band	H
	Palmer Index for LOK Tributary Conditions	-0.52 (Normal to Extremely Wet)	L
	CPC Precipitation Outlook	1 month: Below Normal 3 months: Below Normal	H
	LOK Seasonal Net Inflow Forecast AMO warm/ENSO La Niña	-0.04 ft (Extremely Dry)	H
	LOK Multi-Seasonal Net Inflow Forecast AMO warm/ENSO La Niña	1.91 ft (Normal)	M
WCAs	WCA 1: 3 Station Average (3 Station 1-7, 1-8T, and 1-9 Average)	Above Line 1 (16.21 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (11.72 ft)	L
	WCA-3A: 3 Station Average (S63, S64, S65)	Between Line 1 and 2 (9.38 ft)	M
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	M
	Service Area 3	Year-Round Irrigation Rule in effect	M

Water Shortage Warnings

- **Remain in effect for Indian Prairie Basins, Lake Istokpoga, and Lake Okeechobee Basins**
 - **Call for voluntary water conservation**
 - **Increased communication with water users, local government & public**
- **Lake Okeechobee: 0.51 feet above WSM Trigger Line (2/7/11)**

Preparation Activities: Local Government Outreach

- Palm Beach County
- Collier County
- Coral Springs
- Dania Beach
- Cooper City
- South Broward Drainage District
- Hillsboro Beach
- Broward County WAB
- Diversion & Impoundments
- Martin County
- Ft. Myers Rotary Club
- Hendry County
- Okeechobee County
- Everglades City
- Naples
- Marco Island
- Southeast Florida Utility Council
- Monroe County Administrator
- Florida Keys Aqueduct Authority
- Key Colony Beach
- Southwest Florida Regional Planning Council
- Ft. Myers
- St. Lucie County
- Miami-Dade Commission Staff
- Tamarac
- Lake Okeechobee Regional Economic Alliance Council

Preparation Activities:

Entities of Concern from Previous Water Shortages



- **Lake Worth Drainage District**
- **Loxahatchee Groves**
- **City of West Palm Beach**

Preparation Activities



- **Temporary Forward Pumps**
- **Stormwater Treatment Areas**
- **Media Advisories**
- **Presentations to Nursery Growers – Feb. 23 (Broward) and Feb. 28 (Miami-Dade)**