

## MEMORANDUM

**TO:** John Mitnik, Assistant Executive Director

**THROUGH:** Peter Kwiatkowski, Section Administrator, Resource Evaluation

**FROM:** SFWMD Staff Water Supply Advisory Team

**DATE:** March 22, 2022

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

Surface and groundwater levels generally increased throughout the District over the last week. Approximately ninety percent of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels or greater for this time of year. The wells in the northern portion of the KB are mostly completed in the Floridan aquifer and the wells in southern KB in the surficial aquifer system. Surface and groundwater levels increased in three quarters of the Kissimmee Basin stations over the past seven days.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 22.70, 20.88, and 22.73 feet, all above the fourteen feet agricultural cut-off. Most of the UEC surficial aquifer stations are at median levels for this time of year, with groundwater levels on the low side in Fort Pierce and Stuart areas. Most of the Lower East Coast (LEC) stations recorded increasing water levels over the last seven days. The majority of surface and groundwater stations are at median levels and higher for this time of year. Groundwater levels are on the low side in the C-111 Basin, Homestead and Everglades National Park.

Groundwater levels decreased in the majority of the Lower West Coast (LWC) stations since last week. Surficial aquifer wells are mostly at median levels. About 80 percent of the Lower Tamiami wells are at median levels for this time of year, with the remainder in the lower percentile ranges. About 80 percent of the Sandstone aquifer wells are in the lower percentile ranges. About 70 percent of the Mid-Hawthorn aquifer monitor wells are also in the lower percentile ranges, with the remainder at median levels and higher. **Figure 1** summarizes current conditions.

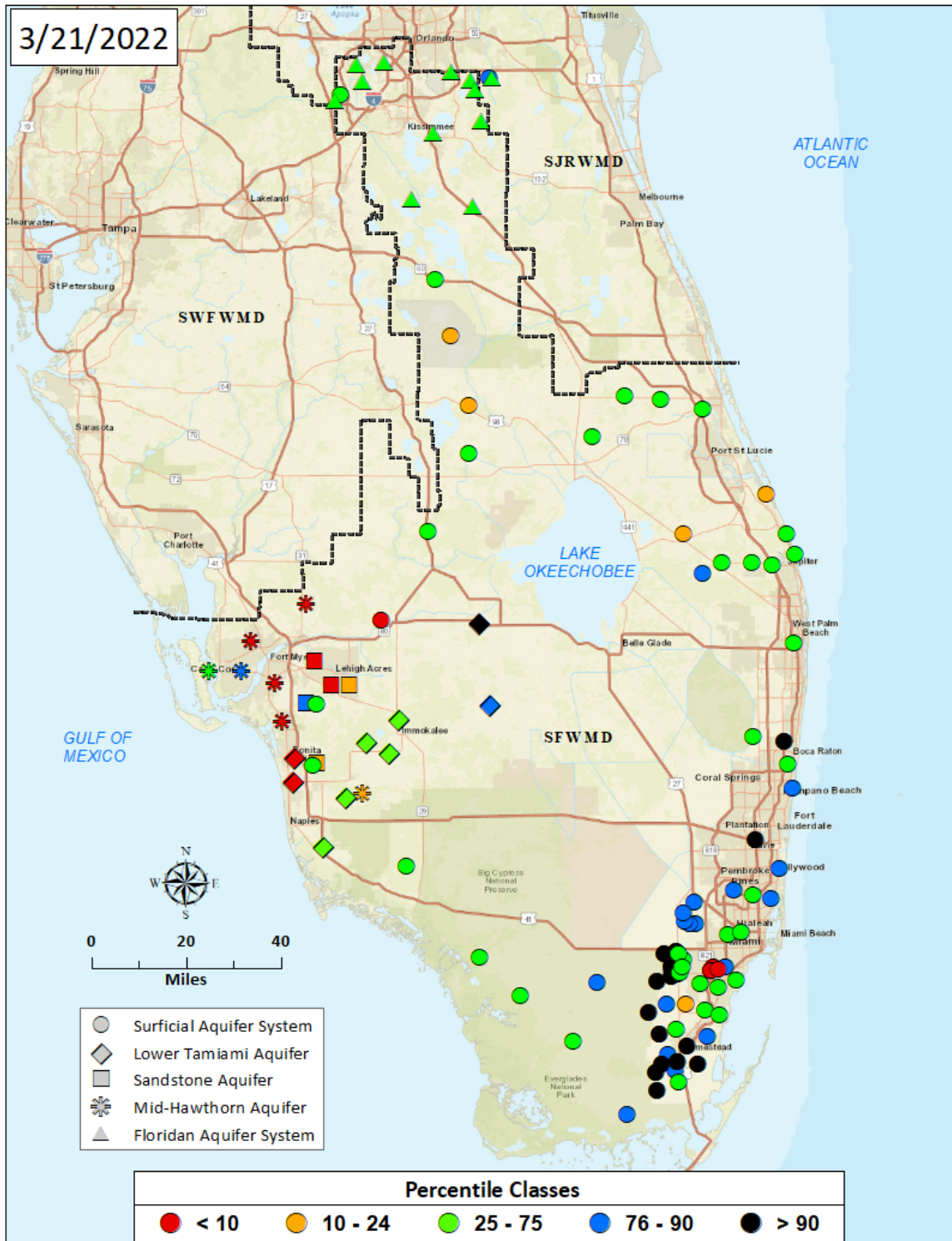


Figure 1. Real-Time Groundwater Level Map

## **Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -2.65 on March 21, 2022 and is classified as “extremely dry,” and is in the “high” risk category for water supply. The projected LOK stage for the next two months is in the Low Sub-band, and the risk to water supply is categorized as “moderate.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “below normal” for one month and “normal” for three months, leaving the one-month outlook in the “moderate” risk category and three-month outlook in the “moderate” risk category. The LOK Seasonal Net Inflow Forecast is in the “dry” category and is in the “moderate” risk category. The LOK Multi-Seasonal Net Inflow Forecast is in the “normal” range with “moderate” risk to water supply. The stages in WCA 1, WCA 2A and WCA 3A are above line 1 and are in the “low” risk category. Year-Round Irrigation Rule is in effect for the LEC Service Areas. All Service Areas are in the “low” risk category for water supply. **Figure 2** summarizes the water supply risk indicators.

**Figure 2. Water Supply Risk Indicators**

**LORS2008 Implementation on 03/21/2022 (ENSO Condition- La Nina Watch):**  
**Status for week ending 03/21/2022:**

### **Water Supply Risk Evaluation**

<b>Area</b>	<b>Indicator</b>	<b>Value</b>	<b>Color Coded Scoring Scheme</b>
<b>LOK</b>	Projected LOK Stage for the next two months	Low Sub-band	M
	Palmer Drought Index for LOK Tributary Conditions	-2.65 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	0.19 ft	M
	ENSO Forecast	Dry	
	LOK Multi-Seasonal Net Inflow Outlook	2.13 ft	M
	ENSO Forecast	Normal	
<b>WCAs</b>	WCA 1: 3 Station Average (Sites 1-7, 1-8T and 1-9)	Above Line 1 (16.49 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.07 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.15 ft)	L
<b>LEC</b>	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	L
	Service Area 3	Year-Round Irrigation Rule in effect	L

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.