

## MEMORANDUM

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

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

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

**DATE:** October 11, 2022

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

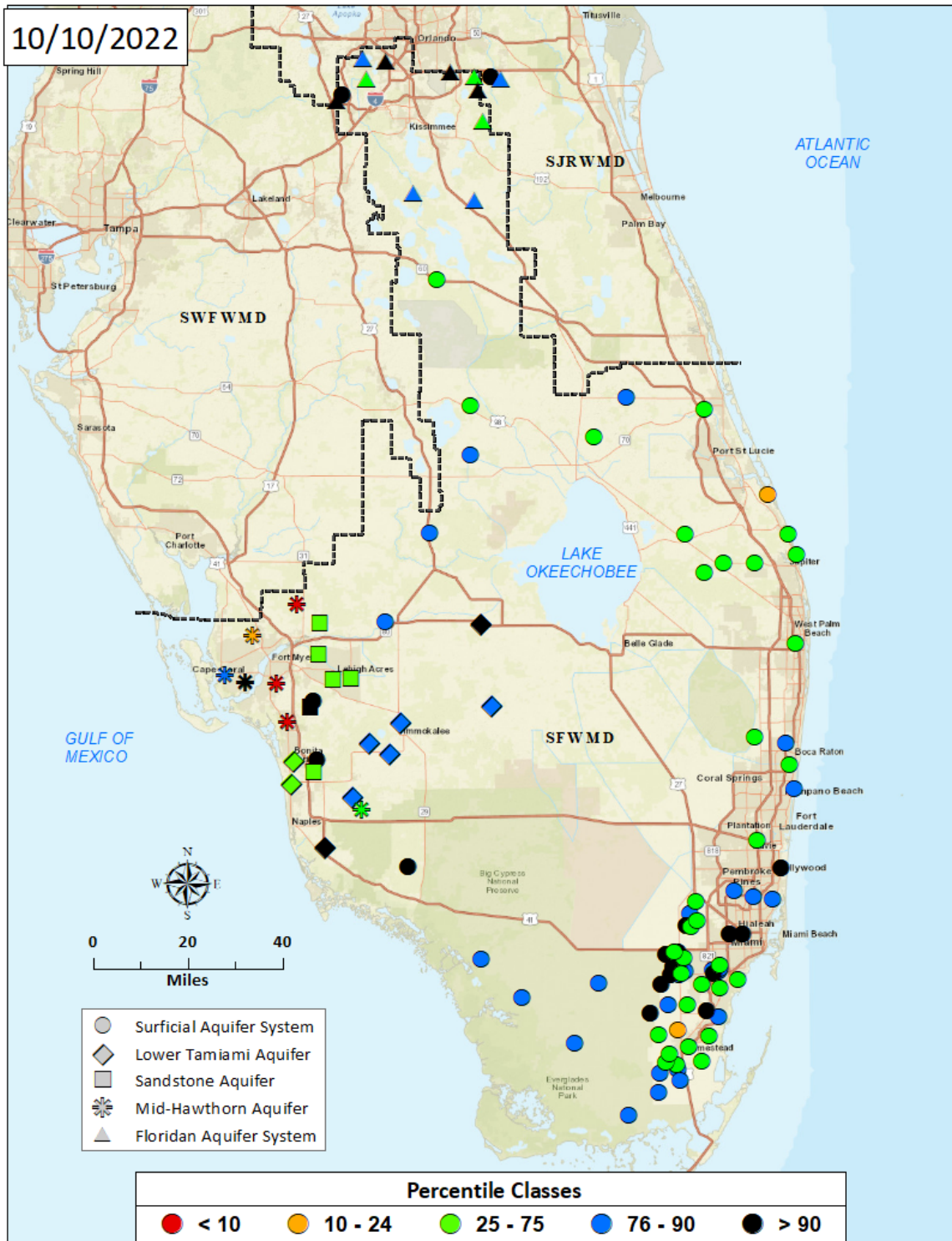
**Figure 1** shows a statistical comparison between current groundwater levels and groundwater levels for this time last year at representative wells throughout the District that collect real-time groundwater levels.

All the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) are in the median and upper percentile ranges for this time of year (Figure 1). The wells in the Upper KB are mostly completed in the Floridan aquifer and the wells in the Lower KB are surficial aquifer system wells. Surface and groundwater levels increased in about two thirds of the Kissimmee Basin stations over the last seven days.

Upper East Coast (UEC) surface water levels increased, and groundwater levels decreased or remained the same in the Upper East Coast since last week. Stages in the UEC canals C-23, C-24, and C-25 are 21.78, 20.30, and 20.59 feet, all above the fourteen feet agricultural cut-off. Only one of the UEC surficial aquifer stations is in the lower percentile ranges for this time of year (Figure 1).

Most of the surface and groundwater stations in the Lower East Coast recorded decreases over the past seven days. Surface water levels are on the low side in C-111 basin (S-176 and S-177). All but one of the LEC surficial aquifer system stations are in the median to upper percentile ranges for this time of year (Figure 1).

In the Lower West Coast (LWC), about 75 percent of the groundwater stations decreased over the last week. All the surficial aquifer system wells are at in the higher percentile ranges for this time of year. All the Lower Tamiami aquifer wells are in the median and upper percentile ranges for this time of year (Figure 1). All the Sandstone aquifer wells are in the median and upper percentile ranges and about 60 percent of the Mid-Hawthorn aquifer wells are in the lower percentile ranges (Figure 1).



**Figure 1.** Map showing a statistical comparison between current groundwater levels and groundwater levels for this time last year

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

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -0.81 on October 10, 2022, and is classified as “normal to extremely wet,” and is in the “low” risk category for water supply. The projected LOK stage for the next two months is Low Sub-Band, and the risk to water supply is categorized as “low”. The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “normal” for one month and “normal” for three months, leaving the one-month outlook in the “low” risk category and three-month outlook in the “low” risk category. The LOK Seasonal Net Inflow Outlook is in the “dry” category and is in the “moderate” risk category. The LOK Multi-Seasonal Net Inflow Outlook is in the “dry” range with “high” risk to water supply. The stages in WCA 1, WCA-2, and WCA-3 are all above line 1 and are in the “low” risk category. The Year-Round Irrigation Rule is in effect for the three LEC Service Areas. All three LEC 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 10/10/2022 (ENSO Condition- La Niña Watch):**

**Status for week ending 10/10/2022:**

#### **Water Supply Risk Evaluation**

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-band	L
	Palmer Drought Index for LOK Tributary Conditions	-0.81 (Normal to Extremely Wet)	L
	CPC Precipitation Outlook	1 month: Normal	L
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	0.93 ft	M
	ENSO Forecast	Dry	H
	LOK Multi-Seasonal Net Inflow Outlook	0.84 ft	
	ENSO Forecast	Dry	
WCAs	WCA 1: 3 Station Average (Sites 1-7, 1-8T, 1-9)	Above Line 1 (17.16 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (13.85 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.71 ft)	L
LEC	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.