

## MEMORANDUM

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

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

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

**DATE:** October 26<sup>th</sup>, 2021

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

Surface and groundwater levels showed mixed trends throughout the District over the last week. About half of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels for this time of year, with the remainder in the lower percentile ranges. 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 decreased in all the Kissimmee Basin stations since last week. Groundwater elevations in all the Kissimmee Basin Floridan aquifer wells decreased since last week.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 22.94, 20.56, and 22.30 feet, all above the fourteen feet agricultural cut-off. About 60% of surficial aquifer stations are at median or higher levels, with the remainder in the lower percentile ranges for this time of year. Water levels decreased over the last seven days in half of the Lower East Coast stations. Most of the Biscayne aquifer wells are at median levels and higher for this time of year. Groundwater levels are on the low side in the C-111 Basin.

Groundwater levels decreased in all but one of the Lower West Coast (LWC) stations since last week. All the surficial aquifer and about two-thirds of the Lower Tamiami wells are at median levels or higher for this time of year. 60% of the Sandstone aquifer wells are in the lowest percentile range, with the remainder split between low and upper percentile ranges for this time of year. About 60% of the Mid-Hawthorn aquifer monitor wells are in the lowest percentile range, with the remainder in the median to upper percentile range for this time of year. **Figure 1** summarizes current conditions.

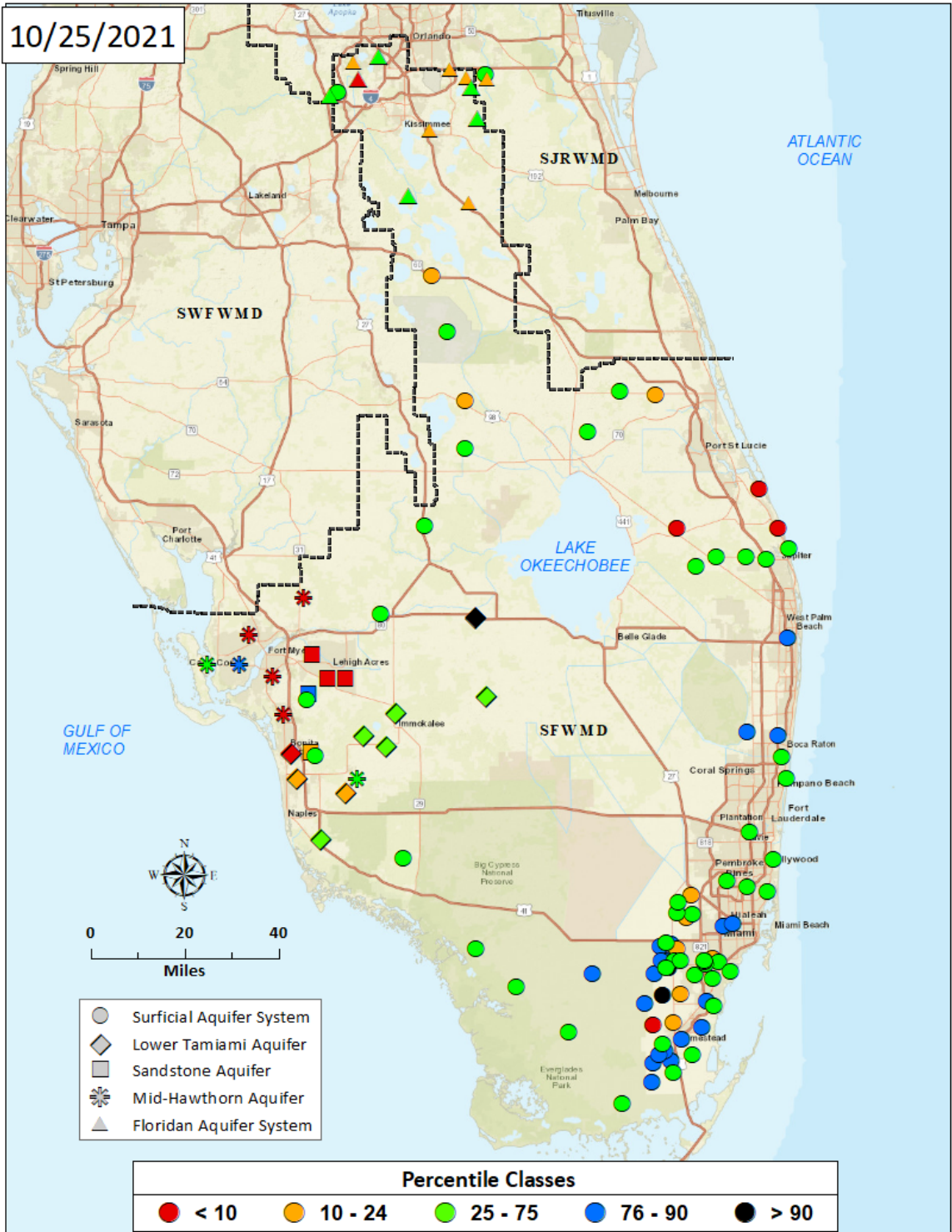


Figure 1. Real-Time Groundwater Level Map

**Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -2.73 on October 25, 2021 and is classified as “extremely dry,” and is in the “high” risk category for water supply. The LOK stage for the next two months is projected to be in the Low Sub-band, and the risk to water supply is categorized as “low.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “below normal” for one month and “below normal” for three months, leaving the one-month and three-month outlooks 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 “dry” range with “high” 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.

**LORS2008 Implementation on 10/25/2021 (ENSO Condition- La Nina Watch):**

Status for week ending 10/25/2021:

**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	-2.73 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	0.26 ft	M
	ENSO Forecast	Dry	H
	LOK Multi-Seasonal Net Inflow Outlook	0.12 ft	
ENSO Forecast	Dry		
WCAs	WCA 1: 3 Station Average (Sites 1-7, 1-8T and 1-9)	Above Line 1 (17.39 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (13.76 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.44 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.]

**Figure 2. Water Supply Risk Indicators**