

## MEMORANDUM

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

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

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

**DATE:** December 28<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. All the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels and higher 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 decreased in about half of the Kissimmee Basin stations.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 21.76, 20.72, and 22.37 feet, all above the fourteen feet agricultural cut-off. The majority of UEC 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 in most of the Lower East Coast stations. 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 parts of the C-111 Basin and Everglades National Park.

Groundwater levels decreased in over half of the Lower West Coast (LWC) stations since last week. The majority of surficial aquifer and Lower Tamiami wells are at median levels and higher for this time of year. Approximately forty percent of the Sandstone aquifer wells are in the lower percentile ranges, with the remainder at median levels and the upper percentile ranges. About two thirds of the Mid-Hawthorn aquifer monitor wells are in the lower percentile ranges, with the remainder recording median to upper percentile range groundwater levels for this time of year. **Figure 1** summarizes current conditions.

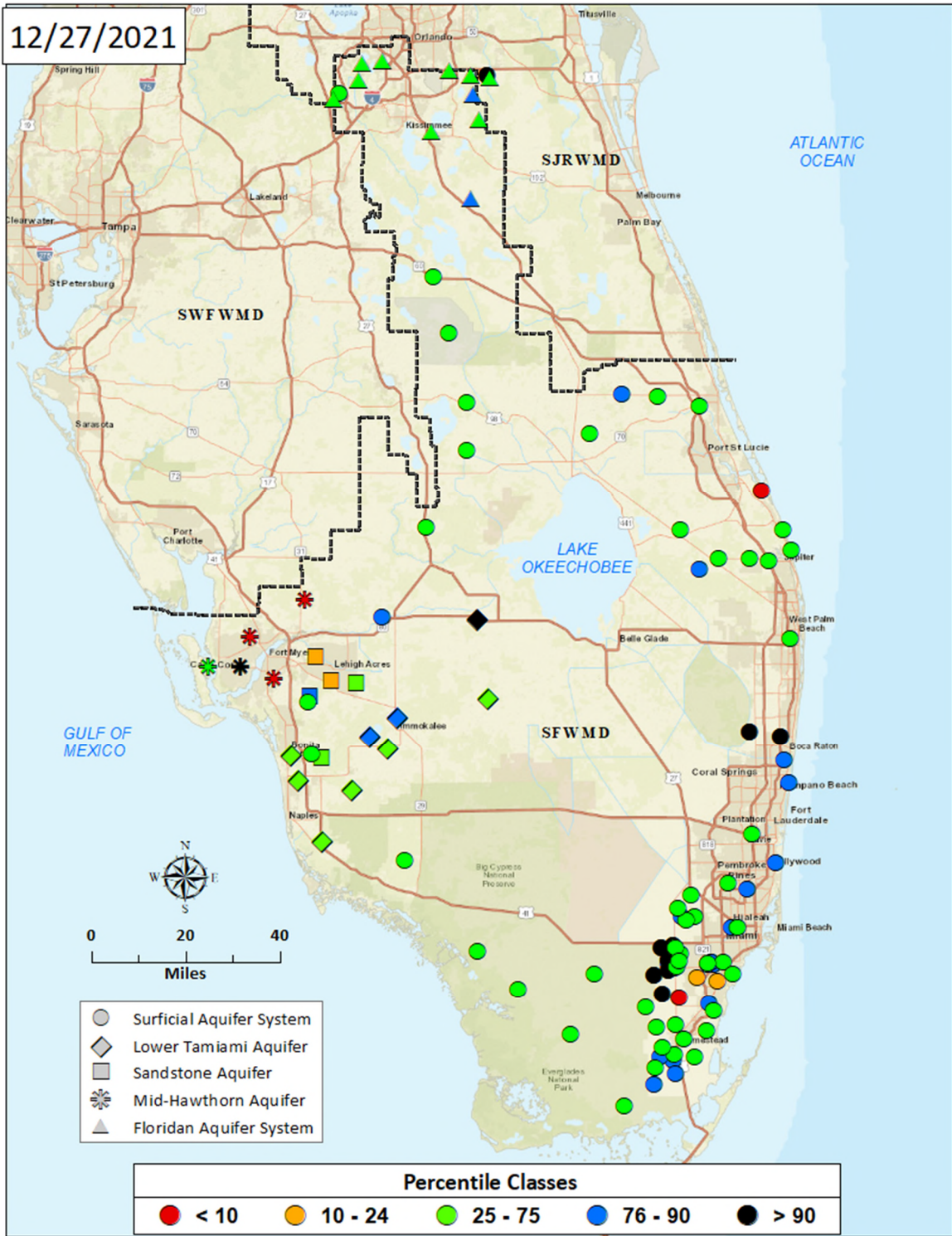


Figure 1. Real-Time Groundwater Level Map

## Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -1.09 on December 27, 2021 and is classified as “dry,” and is in the “moderate” 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 “moderate.” 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 outlook in the “moderate” risk category and three-month outlook in the “high” risk category. The LOK Seasonal Net Inflow Forecast is in the “extremely dry” category and is in the “high” 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.

### LORS2008 Implementation on 12/27/2021 (ENSO Condition- La Nina Watch):

Status for week ending 12/27/2021:

#### Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-band	M
	Palmer Drought Index for LOK Tributary Conditions	-1.09 (Dry)	M
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Below Normal	H
	LOK Seasonal Net Inflow Outlook	-0.49 ft	H
	ENSO Forecast	Extremely Dry	H
	LOK Multi-Seasonal Net Inflow Outlook	2.23 ft	M
ENSO Forecast		Normal	M
WCAs	WCA 1: 3 Station Average (Sites 1-7, 1-8T and 1-9)	Above Line 1 (17.35 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.85 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.07 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**