

## MEMORANDUM

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

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

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

**DATE:** May 11<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. Most 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. The wells in the northern portion of the KB are completed in the Floridan aquifer and the wells in southern KB are completed in the surficial aquifer system. The majority of the surface and groundwater stations throughout the KB recorded decreases in water levels over the last week.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 21.97, 19.58, and 20.31 feet, all above the fourteen feet agricultural cut-off. The majority of the surficial aquifer stations are at median levels for this time of year. Surface and groundwater levels decreased in about half of the Lower East Coast (LEC) stations during the past week. Approximately ninety percent of the Biscayne aquifer wells are at median levels and higher, with the remainder in the lower percentile ranges. Groundwater levels are on the low side in Homestead, Everglades National Park, Water Conservation Area 2A (WCA 2A) and Water Conservation Area 3A (WCA 3A). The agricultural drawdown has now ended.

Groundwater levels decreased in most of the stations on the Lower West Coast (LWC) over the last seven days. The majority of the surficial aquifer wells are at median levels for this time of year. About eighty percent of the Lower Tamiami aquifer wells are at median levels, with the remainder in the lower percentile ranges. Over three quarters of Sandstone aquifer are in the lower percentile ranges, with the remainder at median levels for this time of year. About half of the Mid-Hawthorn aquifer monitor wells are in in the lower percentile ranges, with the remainder split between median levels and higher. **Figure 1** summarizes current conditions.

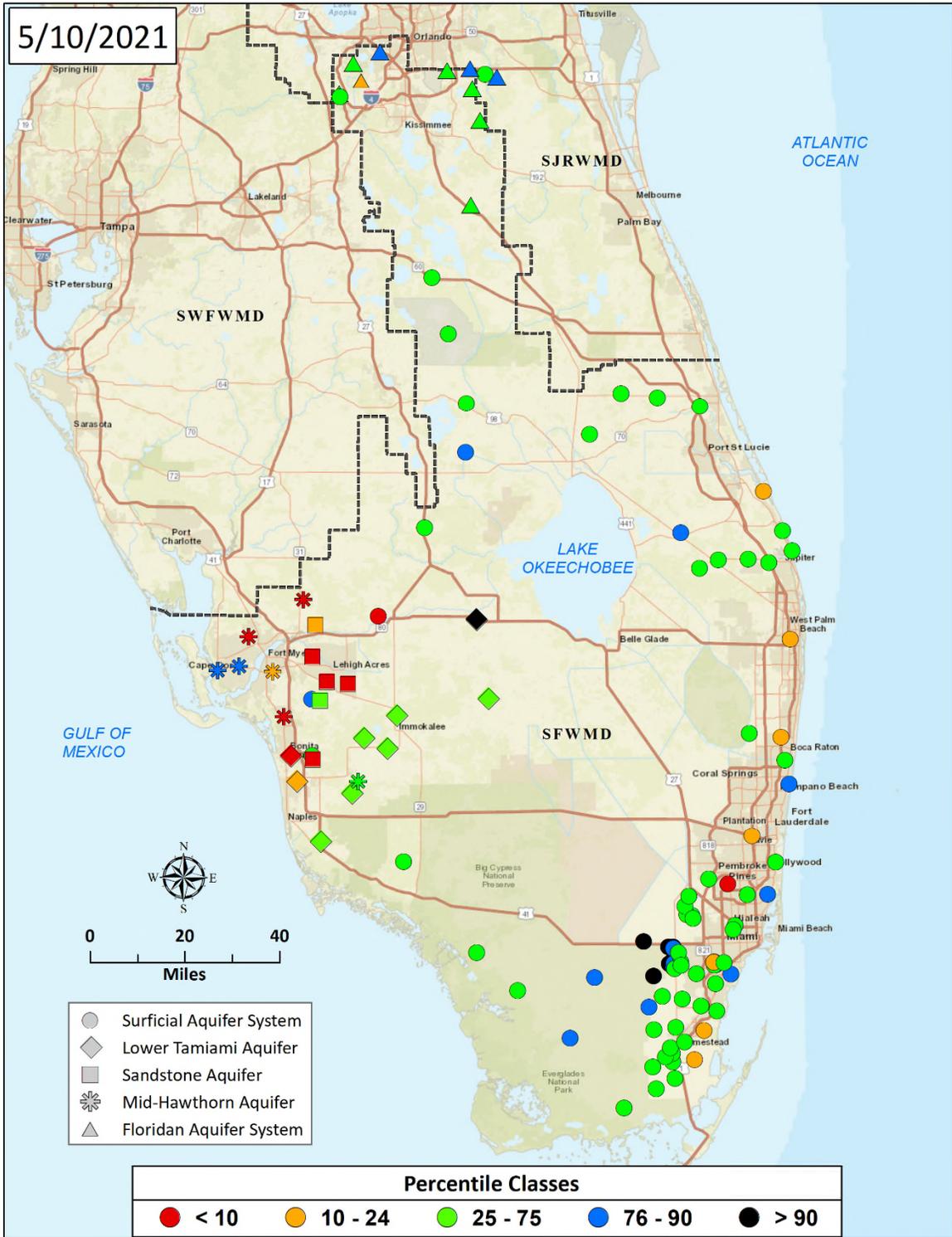


Figure 1. Real-Time Groundwater Level Map

**Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -1.33 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 “low.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “above normal” for one month and “above normal” for three months, leaving both the one-month and three-month outlook in the “low” risk category. The LOK Seasonal Net Inflow Forecast is in the “normal to extremely wet” category and is in the “low” risk category. The Multi-Seasonal Net Inflow Forecast is in the “normal” range with “moderate” risk to water supply. The stages in WCA 1 and WCA 3A are above line 1 and are in the “low” risk category. WCA 2A stage is below line 2 and is in the “high” 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 5/10/2021 (ENSO Condition- La Nina Advisory):**

**Status for week ending 5/10/2021:**

**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	-1.33 (Dry)	M
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	2.60 ft	L
	ENSO Forecast	Normal to Extremely Wet	L
	LOK Multi-Seasonal Net Inflow Outlook	2.93 ft	M
ENSO Forecast	Normal	M	
WCAs	WCA 1: Site 1-8C	Above Line 1 (15.72 ft)	L
	WCA 2A: Site S-11B	Below Line 2 (10.83 ft)	H
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (8.90 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**