

## MEMORANDUM

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

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

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

**DATE:** April 13<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 and higher for this time of year, with the remainder in the lower percentile ranges. 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. About three quarters of the surface and groundwater stations throughout the KB recorded increases in water levels over the last week.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 23.03, 20.36, and 20.88 feet, all above the fourteen feet agricultural cut-off. About three quarters of the surficial aquifer stations are at median levels and higher, with the remainder in the lower percentile ranges. Surface and groundwater levels increased in approximately half of the Lower East Coast (LEC) stations during the past week. Over half of the Biscayne aquifer wells in the upper percentile ranges for this time of year. The remainder is mostly at median levels. Groundwater levels are on the low side in Everglades National Park.

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

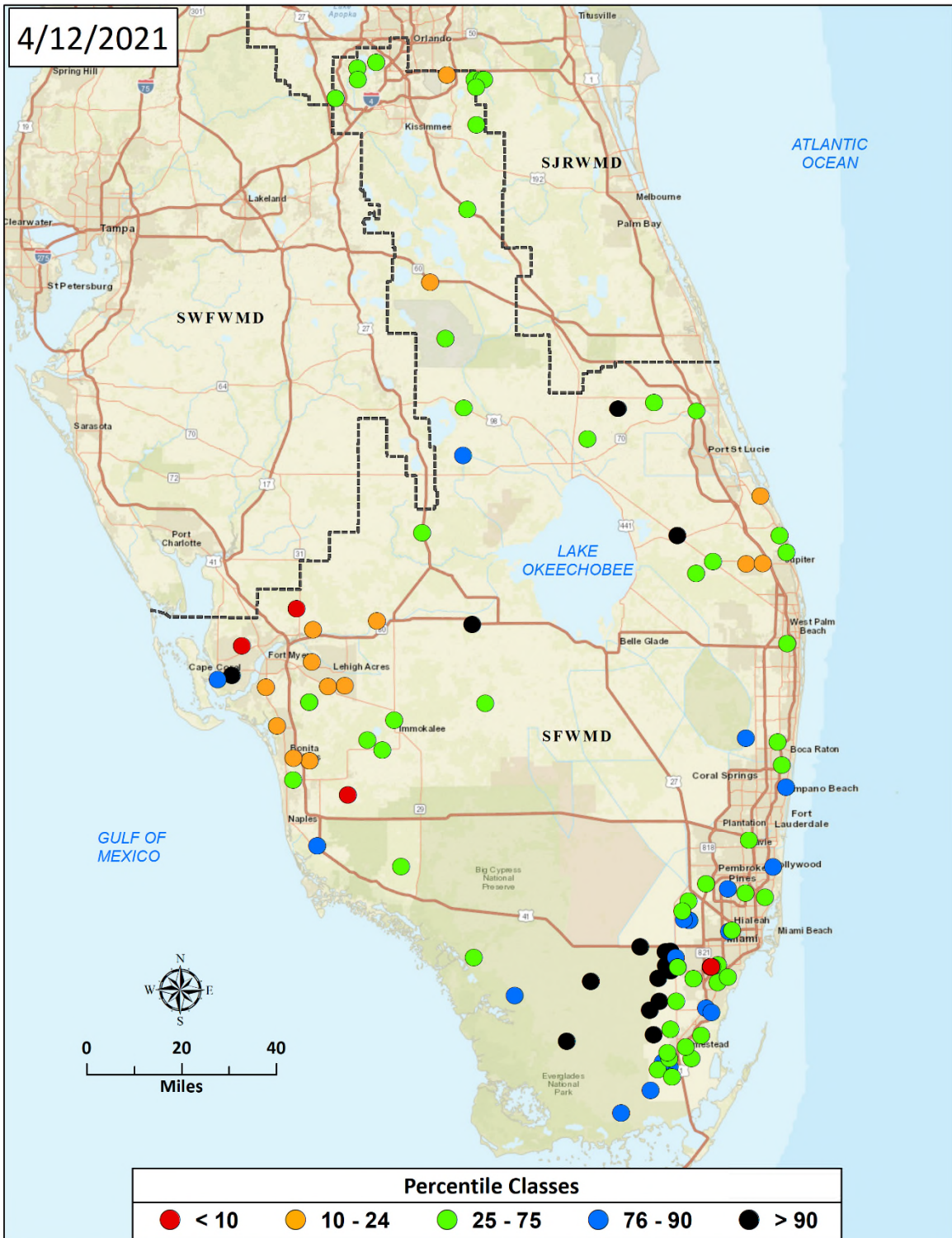


Figure 1. Real-Time Groundwater Level Map

**Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -1.40 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 “normal” for three months, leaving the one-month outlook in the “moderate” risk category 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, WCA 2A and WCA 3A are all 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 4/12/2021 (ENSO Condition- La Nina Advisory):**

**Status for week ending 4/12/2021:**

**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	-1.40 (Dry)	M
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	1.88 ft	L
	ENSO Forecast	Normal to Extremely Wet	L
	LOK Multi-Seasonal Net Inflow Outlook	2.43 ft	M
ENSO Forecast	Normal	M	
WCAs	WCA 1: 3 Station Average (Site 1-7, 1-8T and 1-9)	Above Line 1 (16.31 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (11.63 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (9.35 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**