

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: March 21, 2023

SUBJECT: Water Supply Report

District-wide Conditions

About 70 percent of 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. 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 water and groundwater levels decreased in about 90 percent of the KB stations over the last week.

About 80 percent of the Upper East Coast (UEC) surface water stations and groundwater levels decreased during the last week. Stages in UEC canals C-23, C-24, and C-25 are 22.34, 19.77, and 18.88 feet, all above the fourteen feet agricultural cut-off. About 80 percent of the UEC wells are at median and higher levels for this time of year.

In the Lower East Coast (LEC), about 80 percent of the surface and groundwater stations recorded decreasing trends over the past seven days. About 80 percent of the LEC surficial aquifer system stations are in the median and upper percentile ranges for this time of year.

Groundwater levels decreased in about 65 percent of the Lower West Coast (LWC) stations over the last week. All the Surficial aquifer system wells are in the median and upper percentile ranges for this time of year. Three quarters of the Lower Tamiami aquifer wells, about 85 percent of the Sandstone aquifer wells, and about 60 percent of the Mid-Hawthorn aquifer wells are in the lower percentile ranges for this time of the year.

Figure 1 shows a statistical comparison between current groundwater levels and long-term historical monthly average groundwater levels at representative wells throughout the District.

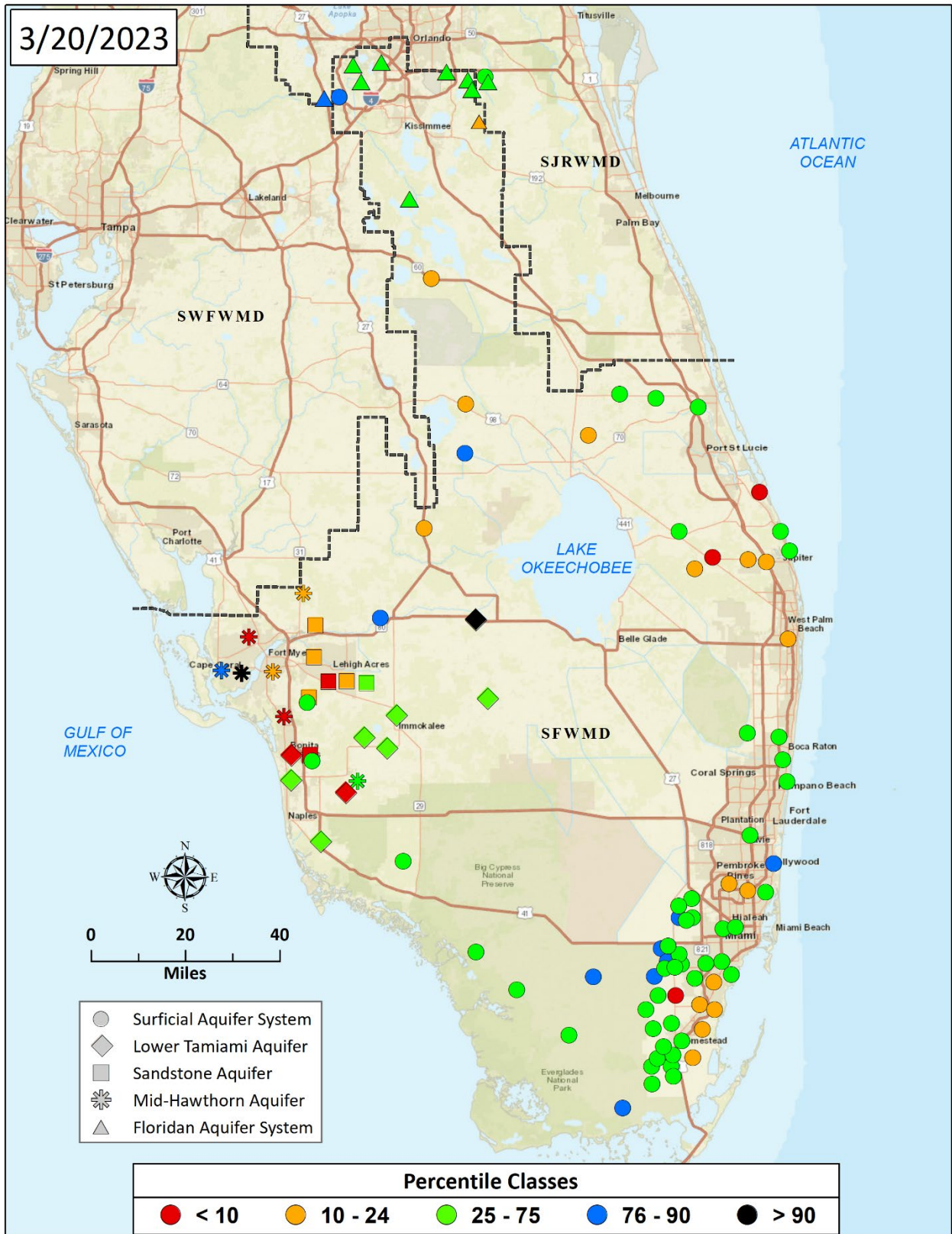


Figure 1. Current Groundwater Level Conditions

Water Supply Technical Input to LORS2008

The projected LOK stage for the next two months is Low Sub-Band, and the risk to water supply is categorized as “moderate”. The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions was -1.74 which is classified as “dry” and is in the “moderate” risk category for water supply. The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “equal chances” for one month and “equal chances” for three months, leaving the 1-month projection in the “low” risk category and the 3-month projection in the “moderate” risk category. The LOK Seasonal Net Inflow Outlook is “dry” and is in the “moderate” risk for water supply. The LOK Multi-Seasonal Net Inflow Outlook is in the “normal” range with “moderate” 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. LORS 2008 Water Supply Risk Indicators

LORS2008 Implementation on 03/20/2023 (ENSO Condition- Neutral Watch):

Status for week ending 03/20/2023:

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	-1.74 (Dry)	M
	CPC Precipitation Outlook	1 month: Equal Chances	L
		3 months: Equal Chances	L
	LOK Seasonal Net Inflow Outlook	1.02 ft	M
	ENSO Forecast	Dry	M
	LOK Multi-Seasonal Net Inflow Outlook	2.42 ft	M
ENSO Forecast		Normal	M
WCAs	WCA 1: 3 Station Average (Sites 1-8C)	Above Line 1 (16.18 ft)	L
	WCA 2A: Site S11B	Above Line 1 (11.74 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.00 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.