

## MEMORANDUM

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

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

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

**DATE:** May 21, 2024

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

About 75 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. About 70 percent of the surface and groundwater water levels decreased in all the KB stations over the last seven days.

Upper East Coast (UEC) groundwater and surface water levels increased during the last week. Stages in UEC canals C-23, C-24, and C-25 are 20.02, 16.53, and 14.28 feet, all above the fourteen feet agricultural cut-off. Half of the UEC wells are in the lower percentile ranges for this time of year.

Approximately 85 percent of the surface and groundwater stations in the Lower East Coast recorded decreases over the past seven days. About 90 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 half 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. About 70 percent of the Lower Tamiami aquifer wells and Sandstone aquifer wells are in the median and upper percentile ranges for this time of year. Approximately 70 percent of the Mid-Hawthorn aquifer wells are in the lower percentile ranges for this time of 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.

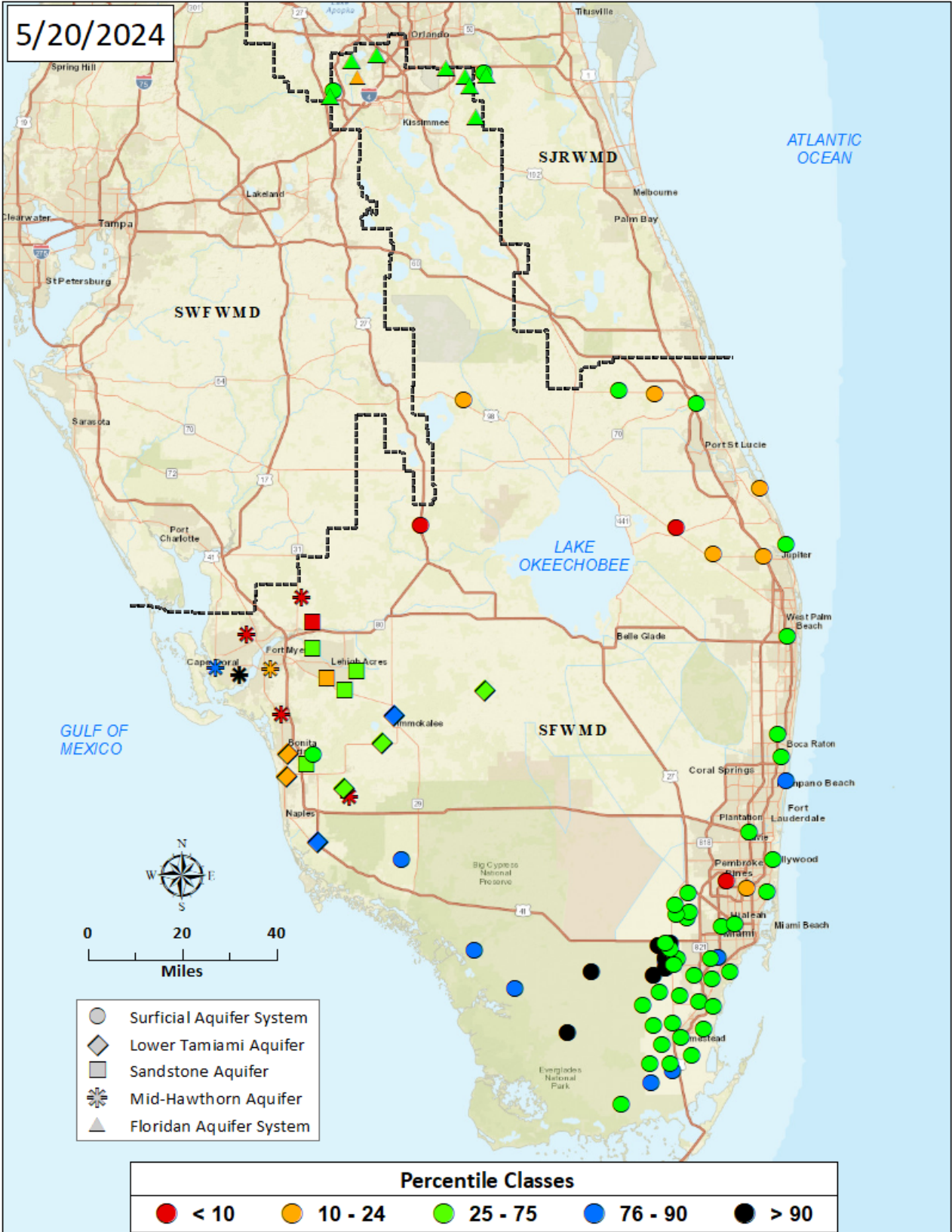


Figure 1. Current Groundwater Level Conditions

## Water Supply Technical Input to LORS2008

**Figure 2** summarizes the water supply risk indicators. The projected LOK stage for the next two months is the Low Sub-Band, and the risk to water supply is categorized as “low”. The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions is -1.79 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” with “low” risk for the one-month outlook and “above chances” and “low” risk for the three-month outlook. The LOK Seasonal Net Inflow Outlook is “normal to extremely wet” and is in the “low” 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 and WCA-3 are all above line 1 and are in the “low” risk category while the stage in WCA 2A is below Line 2 and is 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. Water Supply Risk Indicators**

**LORS2008 Implementation on 5/20/2024 (ENSO Condition- El Niño):**  
**Status for week ending 5/20/2024\*:**

### 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	-1.79 (Dry)	M	
	CPC Precipitation Outlook	1 month: Equal chances		L
		3 months: Above chances		L
	LOK Seasonal Net Inflow Outlook	2.23 ft	L	
	ENSO Forecast	Normal to Extremely Wet		L
	LOK Multi-Seasonal Net Inflow Outlook	2.36 ft		M
ENSO Forecast		Normal		M
WCAs	WCA 1: Site 1-8C	Above Line 1 (15.19 ft) (13.69 ft NAVD88)	L	
	WCA 2A: Site S11B	Above Line 1 (11.10 ft) (9.60 ft NAVD88)	L	
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.14 ft) (7.64 ft NAVD88)	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.

\* S-80 flow data for 5/3, 5/8-5/9, and 5/14-5/19 is not available from USACE Daily Reports and was assumed to be 0. S-77 flow data for 5/11-5/14 and 5/17-5/18 is not available from USACE Daily Reports and was substituted with downstream gage values from USGS and DBHYDRO. S-354 flow data for 5/10 and 5/11 is not available from USACE Daily Reports and was substituted with gage values from DBHYDRO. WCA1, WCA2A, and WCA3A NAVD88 offset of -1.5 is based on Final Regulation Schedule Conversion (5/19/2020).