M E M O R A N D U M

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: October 22, 2024

SUBJECT: Water Supply Report

District-wide Conditions

Approximately 5% of United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) are in the lower 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 and groundwater water levels decreased in approximately 70% of stations in the KB.

Upper East Coast (UEC) surface water levels increased and groundwater levels decreased during the last week. Stages in UEC canals C-23, C-24, and C-25 are 20.14, 18.42, and 17.96 feet NAVD88 respectively. Approximately 20% of the UEC surficial aquifer system wells are in the lower percentile ranges for this time of year.

Approximately 95% of the surface and groundwater stations in the Lower East Coast recorded decreases over the past seven days. Approximately 5% of LEC surficial aquifer system stations are in the lower percentile ranges for this time of year.

Groundwater levels decreased in approximately 90% of the Lower West Coast (LWC) stations over the last week. None of the surficial aquifer system wells are in the lower percentile ranges for this time of year. None of the Lower Tamiami aquifer wells are in the lower percentile ranges for this time of the year. Approximately 60% of the Sandstone aquifer wells are in the lower percentile ranges for this time of year. Approximately 60% 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.

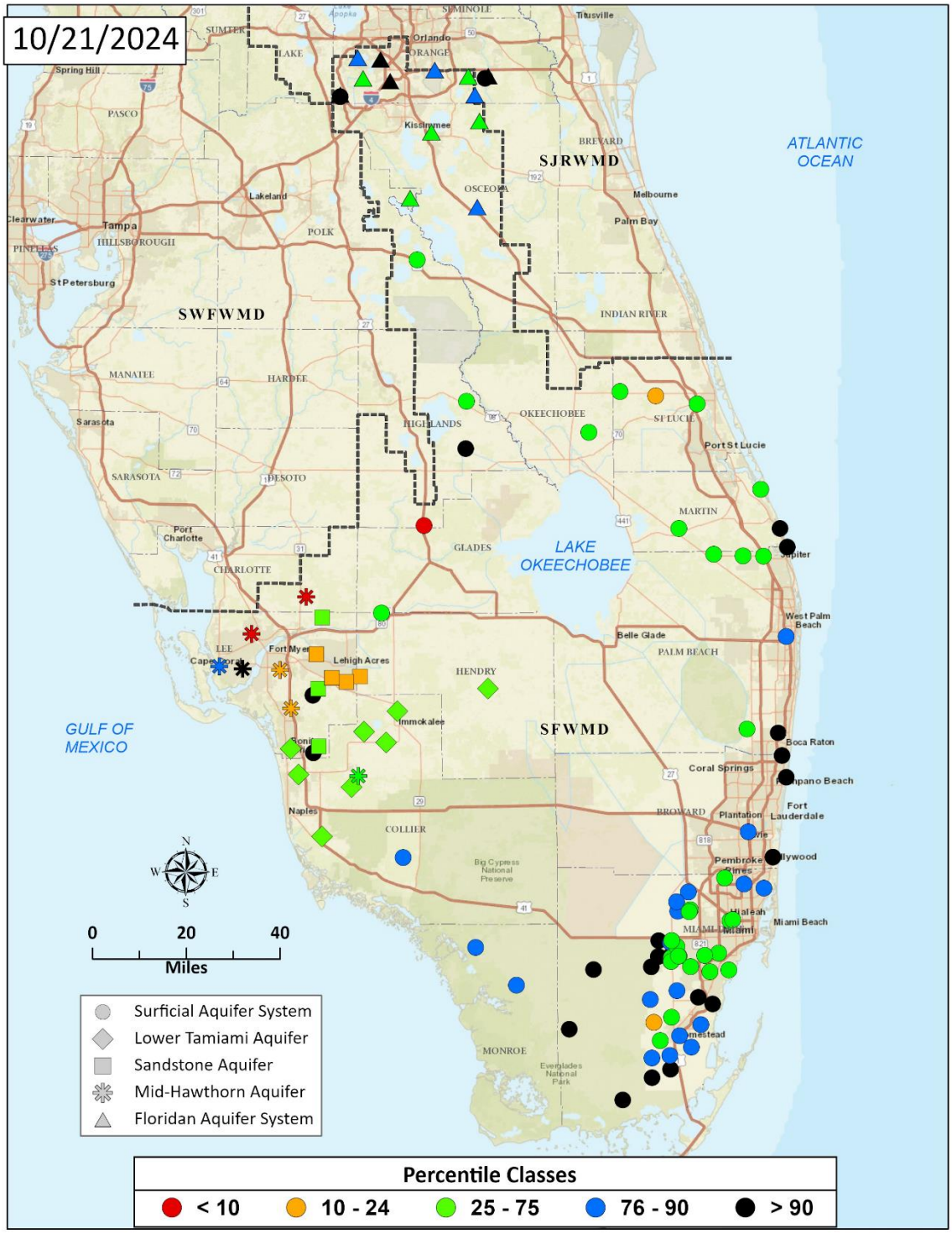

Figure 1. Current Groundwater Level Conditions

Water Supply Technical Input to LOSOM

Please note that Lake Okeechobee System Operating Manual (LOSOM) has replaced LORS08.

The projected LOK stage for the next two months is Subzone D1, and the risk to water supply is "low". The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions was not determined for this week with no caution classification assigned. The Climate Prediction Center's (CPC) Precipitation Outlook is projected as "normal" for the one month and "below normal" for the three months, leaving the one month outlook in the "low" risk category and the three months outlook 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 "dry" range with "high" risk to water supply. The stage in WCA 1 is above line 1 and is in the "low" risk category. The stage in WCA 2A is above line 1 and in the "low" risk category. The stage in WCA-3 is above line 1 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** summarizes the water supply risk indicators.

6. Water Supply Risk Evaluation:

Status for week ending 10/21/2024*:

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Subzone D1	L
	Palmer Drought Index for LOK Tributary Conditions		
	CPC Precipitation Outlook	1 month: Normal	L
		3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	0.90 ft	M
	ENSO Forecast	Dry	
	LOK Multi-Seasonal Net Inflow Outlook	0.77 ft	H
	ENSO Forecast	Dry	
WCAs	WCA 1: 3 Station Average (Sites 1-7, 1-8T, and 1-9)	Above Line 1 (17.00 ft) (15.50 ft NAVD88)	L
	WCA 2A: Site 2-17	Above Line 1 (13.86 ft) (12.36 ft NAVD88)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (11.43 ft) (9.93 ft NAVD88)	L

* S-80 flow data for 10/1 is not available from USACE Daily Reports were filled with values from rtcomps.dss.

Palmer Drought Index data is not available since Hurricane Helene.

WCA1, WCA2A, and WCA3A NAVD88 offset of -1.5 is based on Final Regulation Schedule Conversion (5/19/2020). An updated Table A-9 that classifies Lake Okeechobee projected stage for the next two months is forthcoming to meet the updated regulation schedule under LOSOM.

Figure 2. Water Supply Risk Indicators