

## MEMORANDUM

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

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

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

**DATE:** November 15, 2022

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

All 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 and groundwater levels increased across the KB over the last seven days due to Hurricane Nicole.

Upper East Coast (UEC) groundwater levels increased, and surface water levels showed mixed trends during the last week. Stages in UEC canals C-23, C-24, and C-25 are 22.98, 20.88, and 20.88 feet, all above the fourteen feet agricultural cut-off. The majority of the UEC wells are at median levels for this time of year.

The majority of surface and groundwater stations in the Lower East Coast recorded increases over the past seven days. Surface water levels are on the low side in the C-111 basin (S-176 and S-177). The majority of the LEC surficial aquifer system stations are in the median and upper percentile ranges for this time of year.

Groundwater levels in the majority of the Lower West Coast (LWC) wells increased over the last week. The wells in the surficial aquifer system, Lower Tamiami aquifer and Sandstone aquifer wells are in the median and upper percentile ranges for this time of year. About two-thirds of the Mid-Hawthorn aquifer wells are in the lower percentile ranges.

**Figure 1** summarizes current water level conditions.

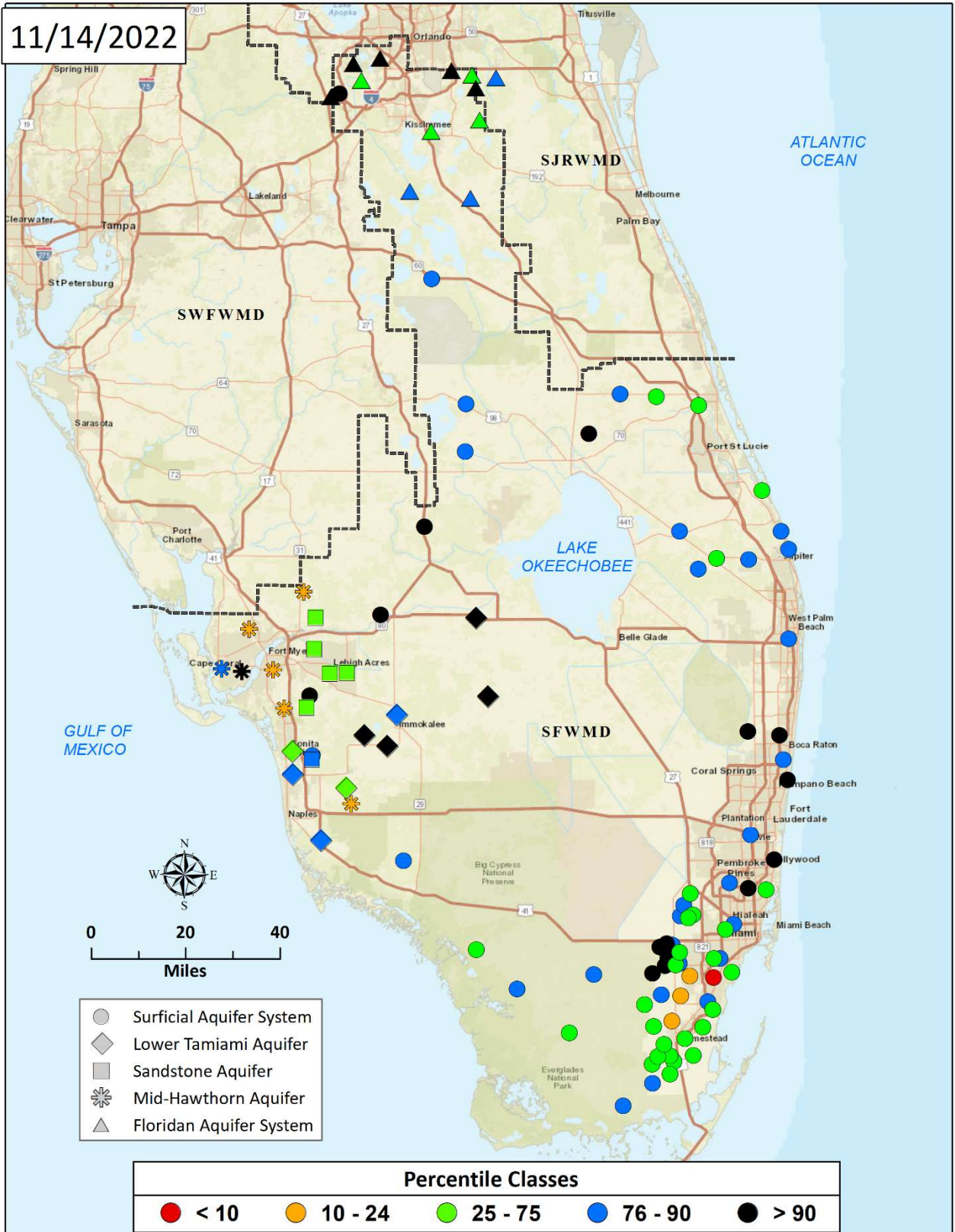


Figure 1. Current Water Level Conditions

**Water Supply Technical Input to LORS2008**

The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions was -0.46 which is classified as “Normal to Extremely Wet” and is in the “low” risk category for water supply. The projected LOK stage for the next two months is 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 both one month and three months, leaving both 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.

**LORS2008 Implementation on 11/14/2022 (ENSO Condition- La Niña Watch):**

**Status for week ending 11/14/2022:**

**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	-0.46 (Normal to Extremely Wet)	L
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	0.19 ft	M
	ENSO Forecast	Dry	
	LOK Multi-Seasonal Net Inflow Outlook	2.86 ft	M
ENSO Forecast	Normal		
WCAs	WCA 1: 3 Station Average (Sites 1-7, 1-8T, 1-9)	Above Line 1 (17.40 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (13.49 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.57 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**