

## MEMORANDUM

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

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

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

**DATE:** September 29, 2021

**SUBJECT:** Water Supply Report

### District-wide Conditions

Surface and groundwater levels showed mixed trends throughout the District over the last week. The majority of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median or higher levels for this time of year. The wells in the northern portion of the KB are mostly completed in the Floridan aquifer and the wells in southern KB in the surficial aquifer system. Surface and groundwater levels increased in about half of the stations in the Kissimmee Basin.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 20.80, 18.12, and 18.91 feet, all above the fourteen feet agricultural cut-off. About two thirds of surficial aquifer stations are at median levels, with the remainder in the lower percentile ranges for this time of year. Water levels mostly increased over the last seven days at the Lower East Coast stations. Station L31N/C-11 (S-176\_H) decreased by 0.14 ft and is in the “red” zone. Water levels at S-177\_H (in the C-111 area) decreased by 0.16 ft, placing this station in the “yellow” caution zone. Approximately ninety percent of the Biscayne aquifer wells are at median levels and higher for this time of year. Groundwater levels are on the low side in Everglades National Park and C-111 Basin.

Groundwater levels increased in all but one of the Lower West Coast (LWC) stations since last week. The majority of the surficial aquifer wells and Lower Tamiami wells are at median levels or higher for this time of year. Approximately three quarters of the Sandstone aquifer wells are in the lower percentile ranges, and the remainder are in the median range. About three quarters of the Mid-Hawthorn aquifer monitor wells are in the lower percentile ranges, with the remainder split between median levels and the upper percentile range for this time of year. **Figure 1** summarizes current conditions.

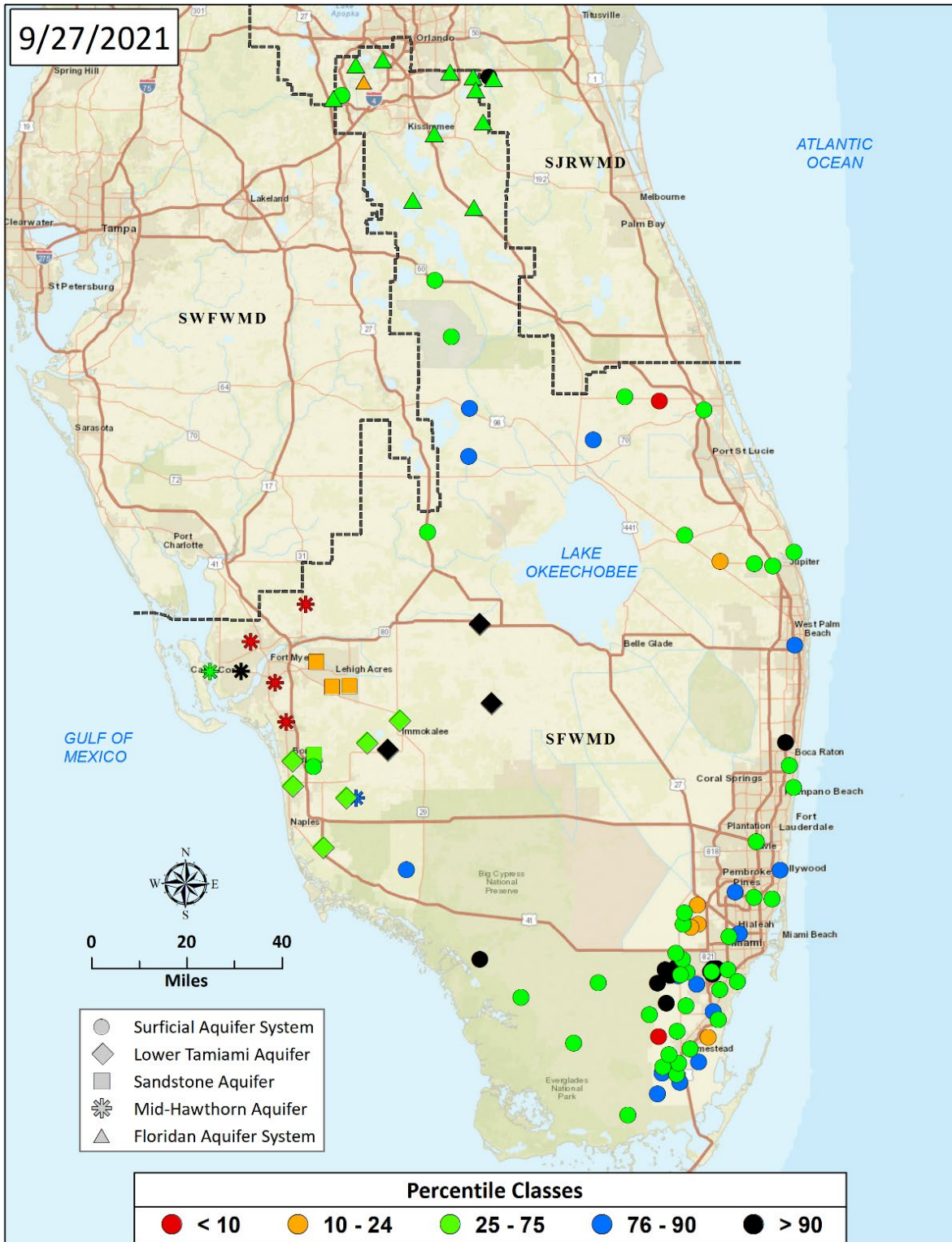


Figure 1. Real-Time Groundwater Level Map

**Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -2.24 on September 27<sup>th</sup>, 2021 and is classified as “extremely dry,” and is in the “high” 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 “low.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “normal” for one month and “below normal” for three months, leaving the one-month outlook in the “low” risk category and three-month outlook in the “moderate” risk category. The LOK Seasonal Net Inflow Forecast is in the “normal to extremely wet” category and is in the “low” risk category. The LOK 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 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 9/27/2021 (ENSO Condition- La Nina Watch):**

Status for week ending 9/27/2021:

**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	-2.24 (9/18/2021) (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Normal	L
		3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	1.33 ft	L
	ENSO Forecast	Normal to Extremely Wet	L
	LOK Multi-Seasonal Net Inflow Outlook	1.16 ft	M
ENSO Forecast		Normal	M
WCAs	WCA 1: 3 Station Average (Site 1-7, 1-8T and 1-9)	Above Line 1 (17.29 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (14.06 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (10.41 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**