

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: August 2, 2022

SUBJECT: Water Supply Report

District-wide Conditions

The water levels in about two-thirds of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are in the lower percentile ranges 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 water levels and groundwater levels showed mixed trends across the Kissimmee Basin over the last seven days. Floridan aquifer well OSF-70R is in the “yellow” caution zone.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 21.35, 19.45, and 20.00 feet, all above the fourteen feet agricultural cut-off. About 70 percent of the UEC surficial aquifer stations are in the lower percentile ranges for this time of year. About 70 percent of the Lower East Coast (LEC) stations recorded increasing water levels over the last seven days. EVER-4 (Everglades National Park) and S-176 (C-111 basin) are in the “yellow” caution zone. The majority the LEC surface and groundwater stations are in the median and upper percentile ranges for this time of year.

About 80 percent of the surficial aquifer system wells are in the median percentile range, with the remainder in the lower percentile ranges. About 70 percent of the Lower Tamiami aquifer wells are at median levels with the remainder in the lower percentile ranges. Two-thirds of the Mid-Hawthorn aquifer wells are in the lower percentile ranges. Mid-Hawthorn aquifer wells L-742 in Ft Myers and L-4820 in North Cape Coral are in the “yellow” caution zone. **Figure 1** represents a statistical comparison of current water levels to historical water levels for this time of the year.

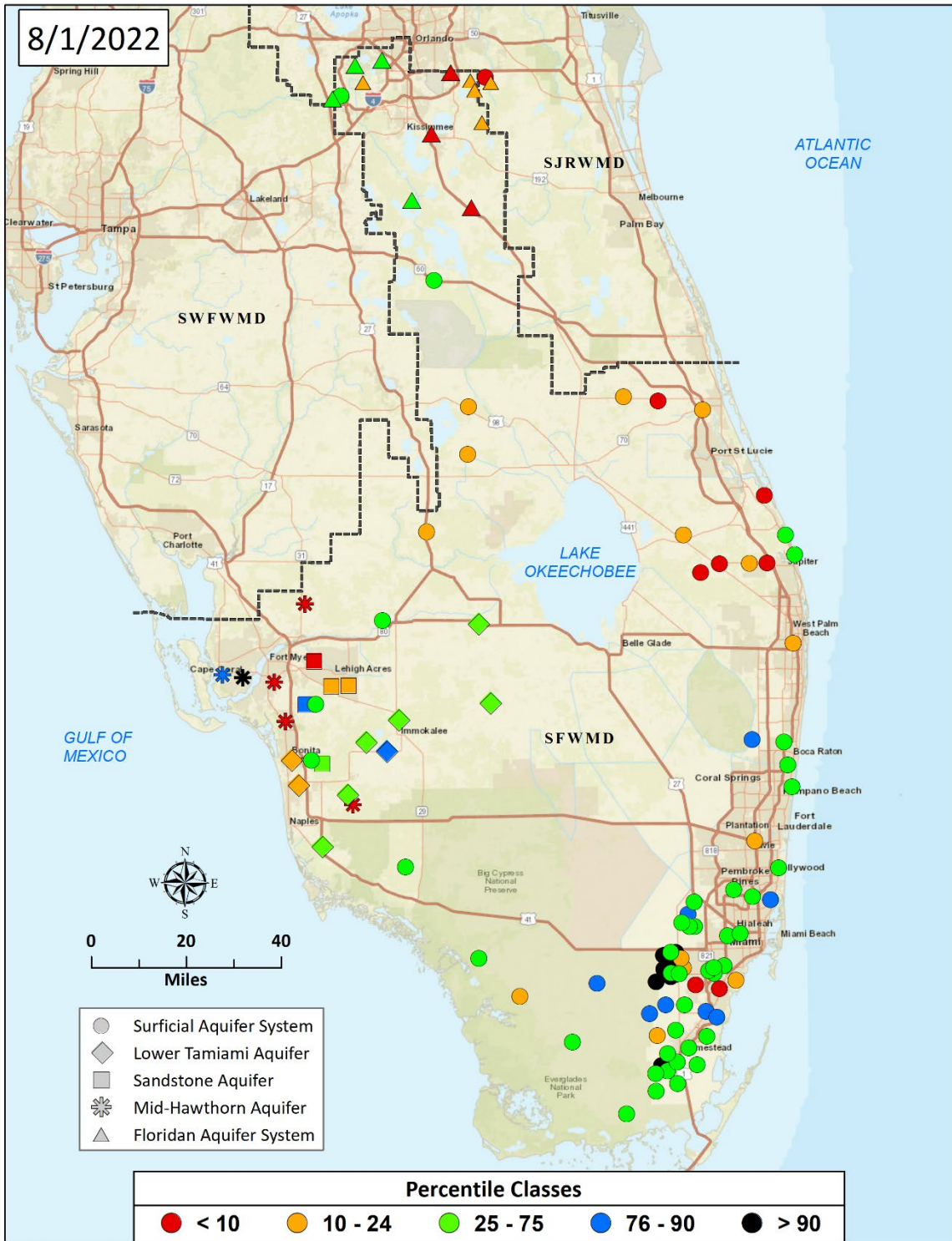


Figure 1. Real-Time Groundwater Level Map

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -3.31 on August 1, 2022 and is classified as “extremely dry,” and is in the “high” risk category for water supply. The projected LOK stage for the next two months is Base Flow, and the risk to water supply is categorized as “moderate.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “normal” for one month and “above normal” for three months, leaving the one-month outlook in the “low” risk category and three-month outlook in the “low” 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 stage in WCA 1 is above line 1 and is in the “low” risk category. The stage in WCA 2 is above line 1 and is 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.

Figure 2. Water Supply Risk Indicators

LORS2008 Implementation on 08/01/2022 (ENSO Condition- La Niña Watch):

Status for week ending 08/01/2022:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Base Flow	M
	Palmer Drought Index for LOK Tributary Conditions	-3.31 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	1.91 ft	L
	ENSO Forecast	Normal to extremely wet	M
	LOK Multi-Seasonal Net Inflow Outlook		
ENSO Forecast	Normal		
WCAs	WCA 1: Station Average (Sites 1-7, 1-8T, and 1-9)	Above Line 1 (16.53 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.50 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.91 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.