

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: May 31, 2022

SUBJECT: Water Supply Report

District-wide Conditions

Surface and groundwater levels showed mixed trends throughout the District over the last week. About 90 percent of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels or greater 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 and groundwater levels mostly decreased across the Kissimmee Basin over the last seven days. Lake Weohyakapka and surface water stations S-68 and S-65 on the Kissimmee River are in the “yellow” caution zone. Floridan aquifer well OSF-70R is in the “red” caution zone.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 21.32, 18.83, and 21.32 feet, all above the fourteen feet agricultural cut-off. About half of the UEC surficial aquifer stations are at median levels and higher for this time of year. About 60 percent of the Lower East Coast (LEC) stations recorded decreasing water levels over the last seven days. S-333 (in WCA-3), EVER4 and G-620 (in Everglades National Park) and S-176 (C-111 Basin) are in the “yellow” caution zone. All the LEC surface and groundwater stations are at median levels and higher for this time of year.

Groundwater levels increased in about half of the Lower West Coast (LWC) stations over the past seven days. All but one of the Surficial aquifer wells are at median or higher levels. About 75 percent of the Lower Tamiami wells are at median or higher levels for this time of year. All the Sandstone aquifer wells are at median or higher levels. About 50 percent of the Mid-Hawthorn aquifer monitor wells are in the lower percentile ranges, with the remainder at median levels and higher. **Figure 1** summarizes current conditions.

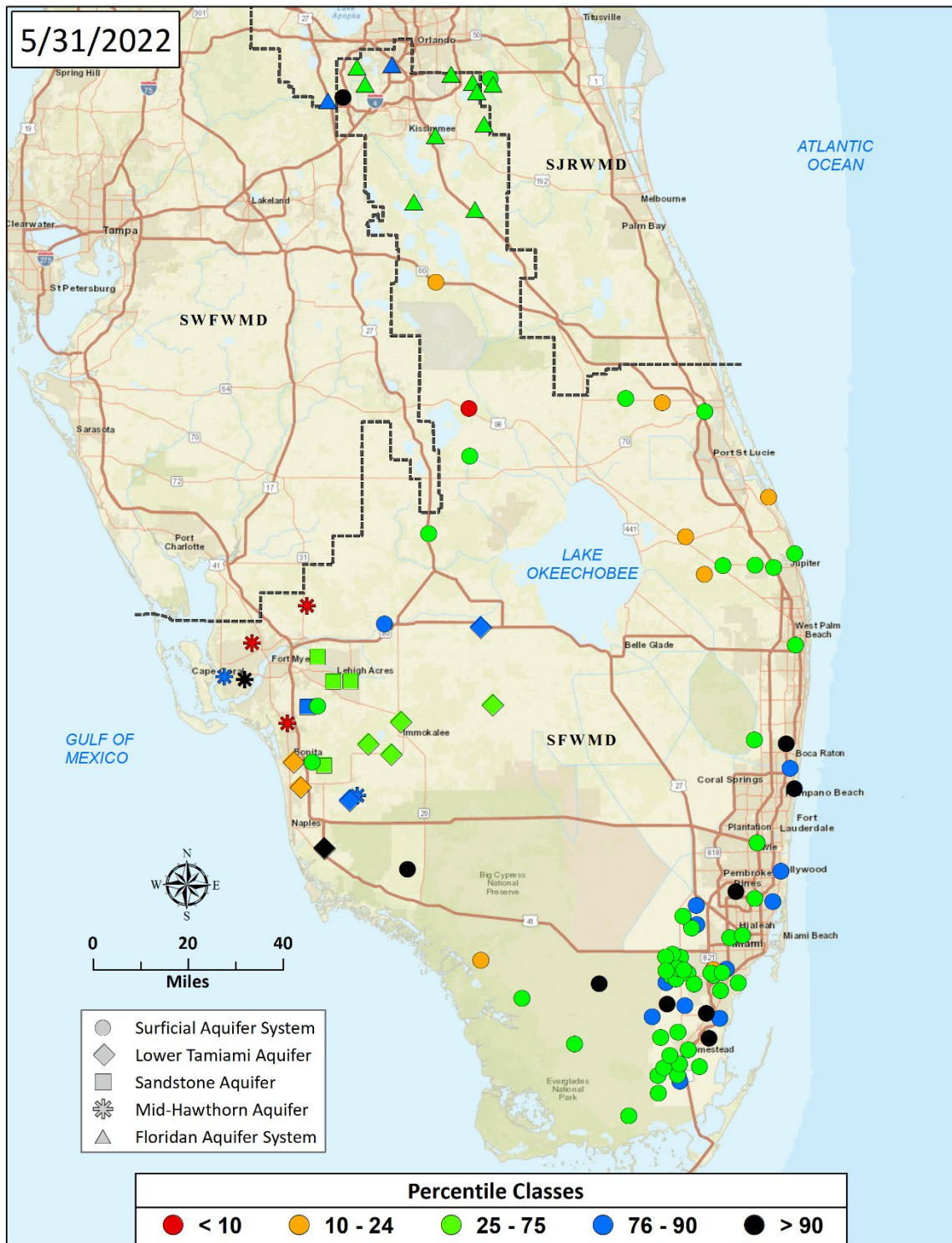


Figure 1. Real-Time Groundwater Level Map

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -3.10 on May 30, 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 Beneficial Use, and the risk to water supply is categorized as “moderate.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “above normal” for one month and “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. WCA-2A is between Line 1 and Line 2 and is in the “moderate” risk category. WCA-3A is between Line 1 and Line 2 and is in the “moderate” 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 05/30/2022 (ENSO Condition- La Nina Watch):
Status for week ending 05/30/2022:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Beneficial Use	M
	Palmer Drought Index for LOK Tributary Conditions	-3.10 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	2.41 ft	L
	ENSO Forecast	Normal to extremely wet	L
	LOK Multi-Seasonal Net Inflow Outlook	2.76 ft	M
WCAs	ENSO Forecast	Normal	M
	WCA 1: Site 1-8C	Above Line 1 (15.84 ft)	L
	WCA 2A: Site S-11B	Line 1 – Line 2 (11.59 ft)	M
LEC	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Line 1 - Line 2 (8.65 ft)	M
	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.