

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: February 23, 2022

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 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. All of the Kissimmee Basin surface water stations and Floridan Aquifer System stations decreased since last week. The surficial aquifer levels decreased by 0.20 ft at P-49 (near Frostproof).

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 22.43, 20.02, and 22.12 feet, all above the fourteen feet agricultural cut-off. The majority of UEC surficial aquifer stations are at median levels for this time of year. Groundwater levels are on the low side in the Fort Pierce area of St. Lucie County. About 75% of the Lower East Coast stations recorded decreasing water levels over the last seven days. The majority of surface and groundwater stations are at median levels and higher for this time of year. Groundwater levels are on the low side in the C-111 Basin and Everglades National Park.

Groundwater levels decreased in about 70% of the Lower West Coast (LWC) stations since last week. All the surficial aquifer wells are at median levels. About 80% of the Lower Tamiami wells are at median levels for this time of year, with the remainder in the lower percentile ranges. Approximately 75% of the Sandstone aquifer wells are in the lower percentile ranges. About 70% 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.

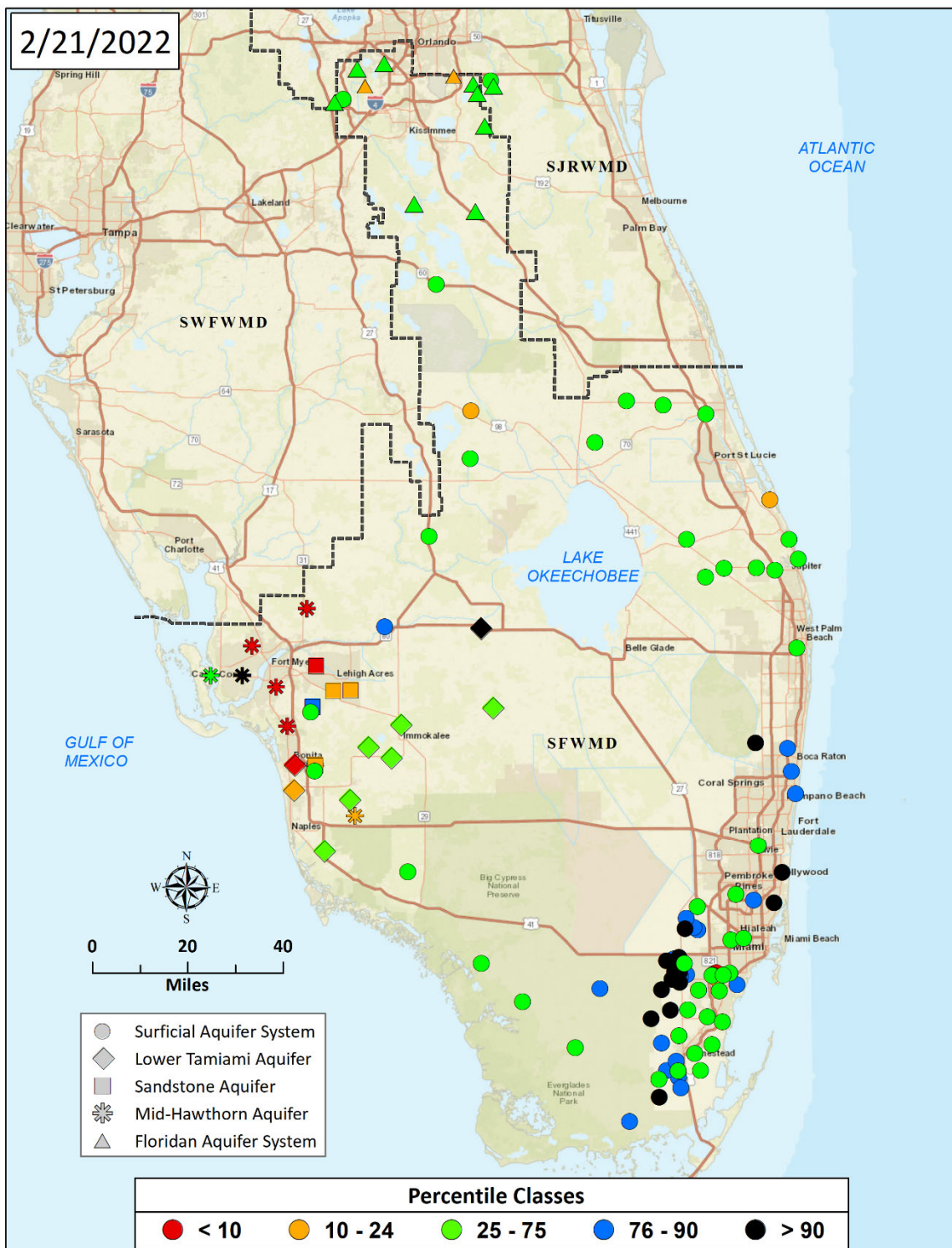


Figure 1. Real-Time Groundwater Level Map

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -2.60 on February 21, 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 in the 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 one month and “below normal” for three months, leaving the one-month outlook in the “high” risk category and three-month outlook in the “moderate” risk category. The LOK Seasonal Net Inflow Forecast is in the “dry” category and is in the “moderate” 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.

Figure 2. Water Supply Risk Indicators

LORS2008 Implementation on 02/21/2022 (ENSO Condition- La Nina Watch):

Status for week ending 02/21/2022:

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	-2.60 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Below Normal	H
		3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	0.17 ft	M
	ENSO Forecast	Dry	M
	LOK Multi-Seasonal Net Inflow Outlook	2.08 ft	M
	ENSO Forecast	Normal	M
WCAs	WCA 1: 3 Station Average (Sites 1-7, 1-8T and 1-9)	Above Line 1 (16.94 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.24 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.42 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.