

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: October 25th, 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 and higher 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 decreased on most of the Kissimmee Basin stations over the past seven days.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 22.67, 20.94, and 20.92 feet, all above the fourteen feet agricultural cut-off. Most of the UEC surficial aquifer stations are at median levels for this time of year, with groundwater levels on the low side in the Fort Pierce area. About three quarters of the Lower East Coast (LEC) 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 Homestead areas.

Groundwater levels decreased across most of the Lower West Coast (LWC) since last week. Surficial aquifer wells are at median levels and higher. About three quarters of the Lower Tamiami wells are at median levels for this time of year, with the remainder in the upper percentile ranges. Approximately two thirds of the Sandstone aquifer wells are at median levels with the remainder split between the upper and lower percentile ranges. Over half 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 -1.44 on October 24, 2022, and is classified as “dry,” and is in the “moderate” 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 “low.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “below normal” for one month and “below normal” for three months, leaving both the one-month and three-month outlooks 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 10/24/2022 (ENSO Condition- La Niña Watch):

Status for week ending 10/24/2022:

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	-1.44 (Dry)	M
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	1.60 ft	L
	ENSO Forecast	Normal to Extremely Wet	M
	LOK Multi-Seasonal Net Inflow Outlook	1.49 ft	
WCAs	ENSO Forecast	Normal	
	WCA 1: 3 Station Average (Sites 1-7, 1-8T, 1-9)	Above Line 1 (17.23 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (13.79 ft)	L
LEC	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.78 ft)	L
	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