## MEMORANDUM

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

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

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

**DATE:** June 4, 2024

**SUBJECT:** Water Supply Report

## **District-wide Conditions**

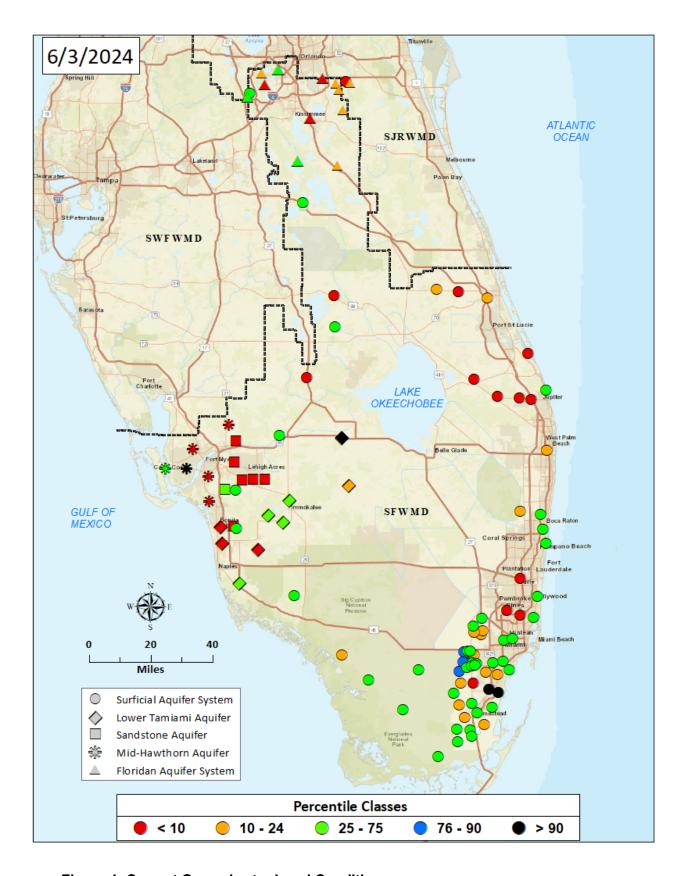
70% of United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) are in the lower percentile ranges for this time of year. The wells in the Upper KB are mostly completed in the Floridan aquifer and the wells in the Lower KB are surficial aquifer system wells. Surface and groundwater water levels decreased in all the KB stations over the last seven days.

Upper East Coast (UEC) surface and groundwater levels decreased during the last week. Stages in UEC canals C-23, C-24, and C-25 are 21.10, 17.65, and 15.33 feet NGVD respectively. All UEC surficial aquifer system wells are in the lower percentile ranges for this time of year.

Half of the surface and groundwater stations in the Lower East Coast recorded decreases over the past seven days. About 70% of the LEC surficial aquifer system stations are in the median and upper percentile ranges for this time of year.

Groundwater levels decreased in about 70% of the Lower West Coast (LWC) stations over the last week. Approximately 80% of the surficial aquifer system wells are in the median and upper percentile ranges for this time of year. Approximately 60% of the Lower Tamiami aquifer wells are in the median and upper percentile ranges for this time of the year. Approximately 90% of the Sandstone aquifer wells are in the lower percentile ranges for this time of year. Approximately 70% of the Mid-Hawthorn aquifer wells are in the lower percentile ranges for this time of year.

**Figure 1** shows a statistical comparison between current groundwater levels and long-term historical monthly average groundwater levels at representative wells throughout the District.



**Figure 1. Current Groundwater Level Conditions** 

## Water Supply Technical Input to LORS2008

The projected LOK stage for the next two months is Base-Flow Sub-Band, and the risk to water supply is categorized as "moderate". The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions is -2.58 which is classified as "extremely dry" and is in the "high" risk category for water supply. The Climate Prediction Center's (CPC) Precipitation Outlook is projected as "equal chances" for the one month and "above normal" for the three months, leaving the one month outlook in the "low" risk category and the three months outlook in the "low" risk category. The LOK Seasonal Net Inflow Outlook is "normal to extremely wet" and is in the "low" risk for water supply. The LOK Multi-Seasonal Net Inflow Outlook is in the "normal" range with "moderate" risk to water supply. The stages in WCA 1 and WCA-3 are above line 1 and are in the "low" risk category. The stages in WCA 2A are below line 2 and in the "high" risk category. The Year-Round Irrigation Rule is in effect for the three LEC Service Areas. All three LEC Service Areas are in the "low" risk category for water supply. Figure 2 summarizes the water supply risk indicators.

## LORS2008 Implementation on 6/3/2024 (ENSO Condition- El Niño): Status for week ending 6/3/2024\*:

Water Supply Risk Evaluation

Water Supply Risk Evaluation			
Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Base-Flow Sub-band	М
	Palmer Drought Index for LOK Tributary Conditions	-2.58 (Extremely Dry)	н
	CPC Precipitation Outlook	1 month: Equal chances	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	2.45 ft	_
	ENSO Forecast	Normal to Extremely Wet	,
	LOK Multi-Seasonal Net Inflow Outlook	2.54 ft	
	ENSO Forecast	Normal	M
WCAs	WCA 1: Site 1-8C	Line 1 – Line 2 (14.64 ft) (13.14 ft NAVD88)	М
	WCA 2A: Site S11B	Below Line 2 (10.63 ft) (9.13 ft NAVD88)	Н
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.01 ft) (7.51 ft NAVD88)	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

<sup>\*</sup> S-80 flow data for 6/1-6/2 is not available from USACE Daily Reports and was assumed to be 0. S-354 flow data for 5/20-5/22 and 6/2 is not available from USACE Daily Reports and was substituted with gage values from DBHYDRO. WCA1, WCA2A, and WCA3A NAVD88 offset of -1.5 is based on Final Regulation Schedule Conversion (5/19/2020).