

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: June 18, 2024

SUBJECT: Water Supply Report

District-wide Conditions

Approximately 50% 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 increased in approximately 90% of the KB stations over the last seven days.

Upper East Coast (UEC) surface and groundwater levels increased during the last week. Stages in UEC canals C-23, C-24, and C-25 are 20.74, 18.54, and 19.47 feet NGVD respectively. About 80% of UEC surficial aquifer system wells are in the median and upper percentile ranges for this time of year.

Approximately 90% of the surface and groundwater stations in the Lower East Coast recorded increases over the past seven days. All of the LEC surficial aquifer system stations are in the median and upper percentile ranges for this time of year.

Groundwater levels increased in all of the Lower West Coast (LWC) stations over the last week. All of the surficial aquifer system wells are in the median and upper percentile ranges for this time of year. All of the Lower Tamiami aquifer wells are in the median and upper percentile ranges for this time of the year. Approximately 70% of the Sandstone aquifer wells are in the median and upper 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.

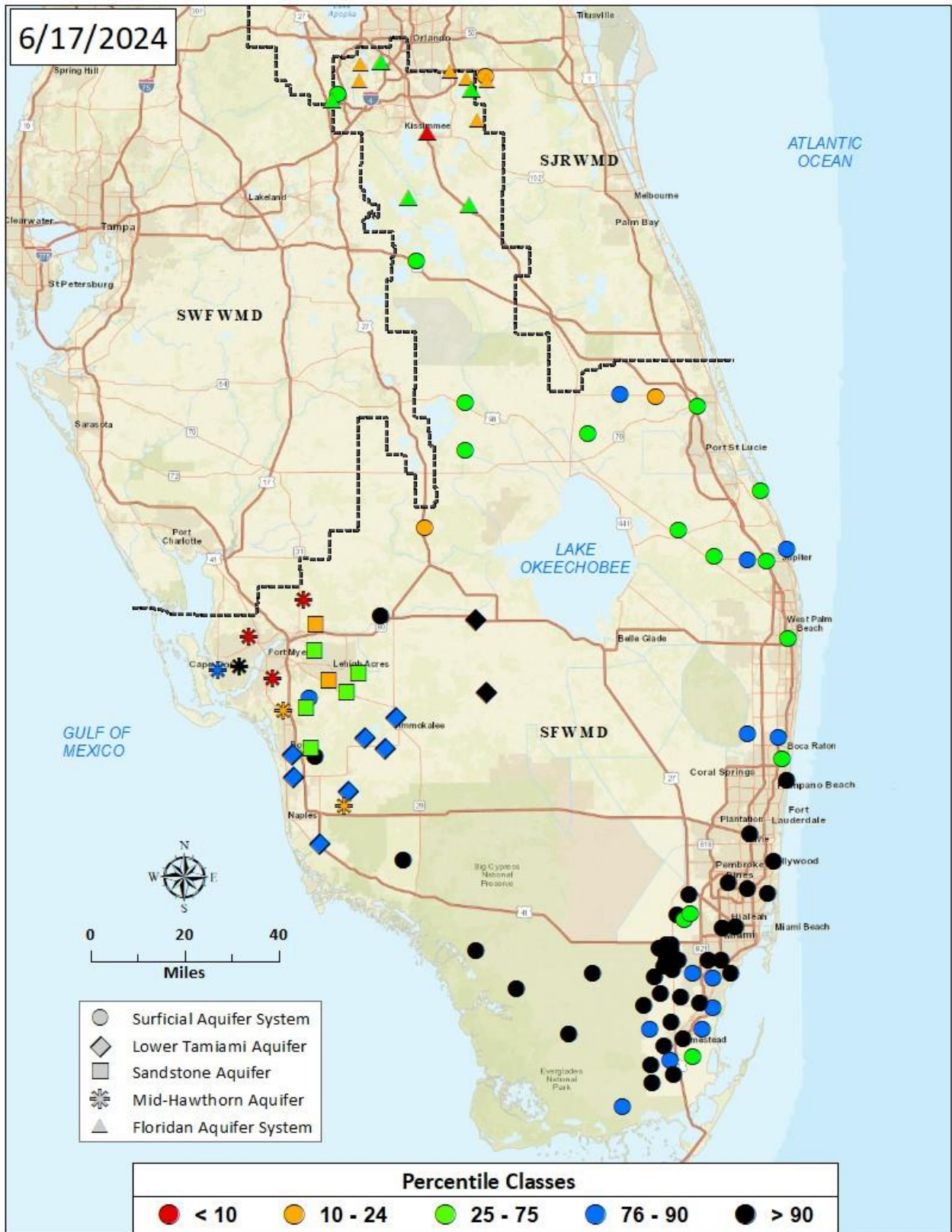


Figure 1. Current Groundwater Level Conditions

Water Supply Technical Input to LORS2008

The projected LOK stage for the next two months is Low-Flow Sub-Band, and the risk to water supply is categorized as “low”. The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions is -2.02 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 stage in WCA 1 is above line 1 and is in the “low” risk category. The stage in WCA 2A is above line 1 and in the “low” risk category. The stage in WCA-3 is above line 1 and is in the “low” 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 6/17/2024 (ENSO Condition- Neutral):
Status for week ending 6/17/2024*:

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	-2.02 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Equal chances	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	2.82 ft	L
	ENSO Forecast	Normal to Extremely Wet	L
	LOK Multi-Seasonal Net Inflow Outlook	2.80 ft	M
ENSO Forecast	Normal	M	
WCAs	WCA 1: Site 1-8C	Above Line 1 (16.30 ft) (14.80 ft NAVD88)	L
	WCA 2A: Site S11B	Above Line 1 (12.02 ft) (10.52 ft NAVD88)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.00 ft) (8.50 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.

* S-80 flow data for 6/7- 6/8 and 6/13 - 6/14 is not available from USACE Daily Reports and was assumed to be 0. S-354 flow data for 6/9 - 6/16 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).

Figure 2. Water Supply Risk Indicators