# MEMORANDUM

то:	John Mitnik, Assistant Executive Director	
THROUGH:	Peter Kwiatkowski, Section Administrator, Resource Evaluation	
FROM:	SFWMD Staff Water Supply Advisory Team	
DATE:	April 21 <sup>st</sup> , 2020	
SUBJECT:	Water Supply Report	

## **District-wide Conditions**

Surface and groundwater levels generally decreased throughout the District over the last week. Approximately three quarters 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, with the remainder in the lower percentile ranges. These wells are completed in the Floridan and surficial aquifers. About half of the surface and groundwater stations across the KB recorded decreases in water levels over the last week.

Lake Istokpoga stage is 38.75 feet. G207 and G208 pump stations pumped an average of 66 cfs and 103 cfs yesterday for water supply to the Indian Prairie. Lake Okeechobee stage is 11.41 feet and is in the Beneficial Use Sub Band. The rain this past week eased the situation a little to the north of Lake Okeechobee.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 22.40, 18.80, and 18.48 feet, all above the fourteen feet agricultural cut-off. About half of surficial aquifer stations are at median levels in the UEC, with the remainder in their lower percentile ranges. Groundwater levels are on the low side in St. Lucie County and throughout much of Martin County. Surface and groundwater levels increased in about one third of the Lower East Coast (LEC) stations over the past week. About fifty percent of the Biscayne aquifer monitor wells are in the median percentile ranges, with the remainder in the lower percentile ranges. The seasonal agricultural drawdown has now ended in southern Miami-Dade.

Groundwater levels decreased in the majority of the Lower West Coast (LWC) stations over the last seven days. About forty percent of the Surficial aquifer wells are in the lower percentile ranges, with the remainder at median levels. Approximately seventy percent of the Lower Tamiami aquifer wells are at median levels for this time of year, with the remaining half in the lower percentile ranges. About twenty percent of the Sandstone aquifer monitor wells are at median levels, with the remainder in the lower percentile ranges. Approximately sixty percent of the Mid-Hawthorn aquifer monitor wells are in the lower percentile ranges, with the remainder at median levels and the upper percentile ranges. **Figure 1** summarizes current conditions.

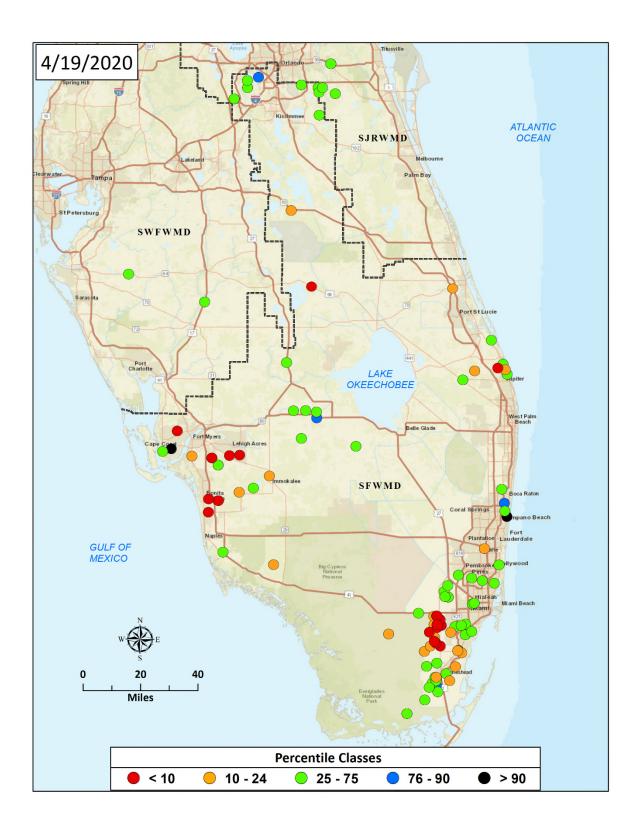


Figure 1. Real-Time Groundwater Level Map

### Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is –2.97 classified as "extremely dry," and is in the "high" risk category for water supply. The LOK stage for the next two months is projected to be in the Beneficial Use Band, and the risk to water supply is categorized as "high." The Climate Prediction Center's (CPC) Precipitation Outlook is projected as "above normal" for one month and "above normal" for three months, leaving both the one-month outlook 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 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 stage is below Line 2 and is in the "high" risk category. Average stage in WCA-3A is between Line 1 and Line 2 and is in the "moderate" risk category for water supply. Year-Round Irrigation Rule is in effect for the LEC Service Areas. Service Area 1 (Palm Beach) is in the "low" risk category, Service Area 2 (Broward) is in the 'high" risk category and Service Area 3 (Miami-Dade) is the "moderate" risk category. **Figure 2** summarizes the water supply risk indicators.

#### LORS2008 Implementation on 04/20/2020 (ENSO Neutral Condition):

Status for week ending 4/20/2020:

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Beneficial Use Sub band	н
	Palmer Index for LOK Tributary Conditions	-2.97 (Extremely Dry)	н
	CPC Precipitation Outlook	1 month: Above Normal	L
	CFC Frecipitation Outdook	3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook ENSO Forecast (positive)	2.02 ft (Normal to Extremely Wet)	L
	LOK Multi-Seasonal Net Inflow Outlook	2.58 ft (Normal)	м
	ENSO Forecast (positive)		
WCAs	WCA 1: Site 1-8C	Above Line 1 (16.00 ft)	L
	WCA 2A: Site S-11B	Below Line 2 (10.17 ft)	н
	WCA-3A: 3 Station Average (Site 63, 64, and 65)	Line 1- Line 2 (8.62 ft)	м
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	н
	Service Area 3	Year-Round Irrigation Rule in effect	м

#### Water Supply Risk Evaluation

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflov outlooks use slightly different classification intervals than those used by the 2008-LORS.

Figure 2. Water Supply Risk Indicators