

MEMORANDUM

TO: John Mitnik, Division Director, Operations, Engineering, and Construction

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: May 1, 2018

SUBJECT: Water Supply Report

District-wide Conditions

Surface and groundwater levels showed mixed trends throughout the District over the last week with generally decreasing levels in the Kissimmee Basin (KB) and Lower West Coast (LWC) and increasing levels in the Upper East Coast (UEC) and Lower East Coast (LEC). About three quarters of the United States Geological Survey (USGS) real-time wells in the KB within the District boundaries are at median levels for this time of year, with the remainder in the 10th to 24th percentile range. The majority of surface water and groundwater stations across the KB recorded decreases in water levels over the last week. Stages in the UEC canals C-23, C-24, and C-25 are at 21.99, 19.85, and 17.67 feet, all above the fourteen feet agricultural cut-off. Most of UEC surficial aquifer wells are in the median percentile range for this time of year. Surface and groundwater levels increased in the majority of the LEC monitoring stations over the past week. About three quarters of the Biscayne aquifer monitor wells are at median levels for this time of year, with the remainder split between the upper and lower percentile ranges. Levels are low in Everglades National Park (ENP) and the C-111 basin.

Overall, conditions are drying out in the Lower West Coast. Groundwater levels decreased in most of the monitor wells over the last seven days. Approximately half of the wells in the Surficial aquifer are at median levels for this time of year, with the remainder in the 10th to 24th percentile range. About two thirds of the Lower Tamiami aquifer wells are at median levels, with the rest falling into the 10th to 24th percentile range. Approximately two thirds of the Sandstone aquifer monitor wells are also at median levels for this time of year, with the remainder in the lower percentile ranges. About one third of the Mid-Hawthorn aquifer monitor wells are at median levels, with the remainder split between the upper and lower percentile ranges. **Figure 1** summarizes current water level conditions.

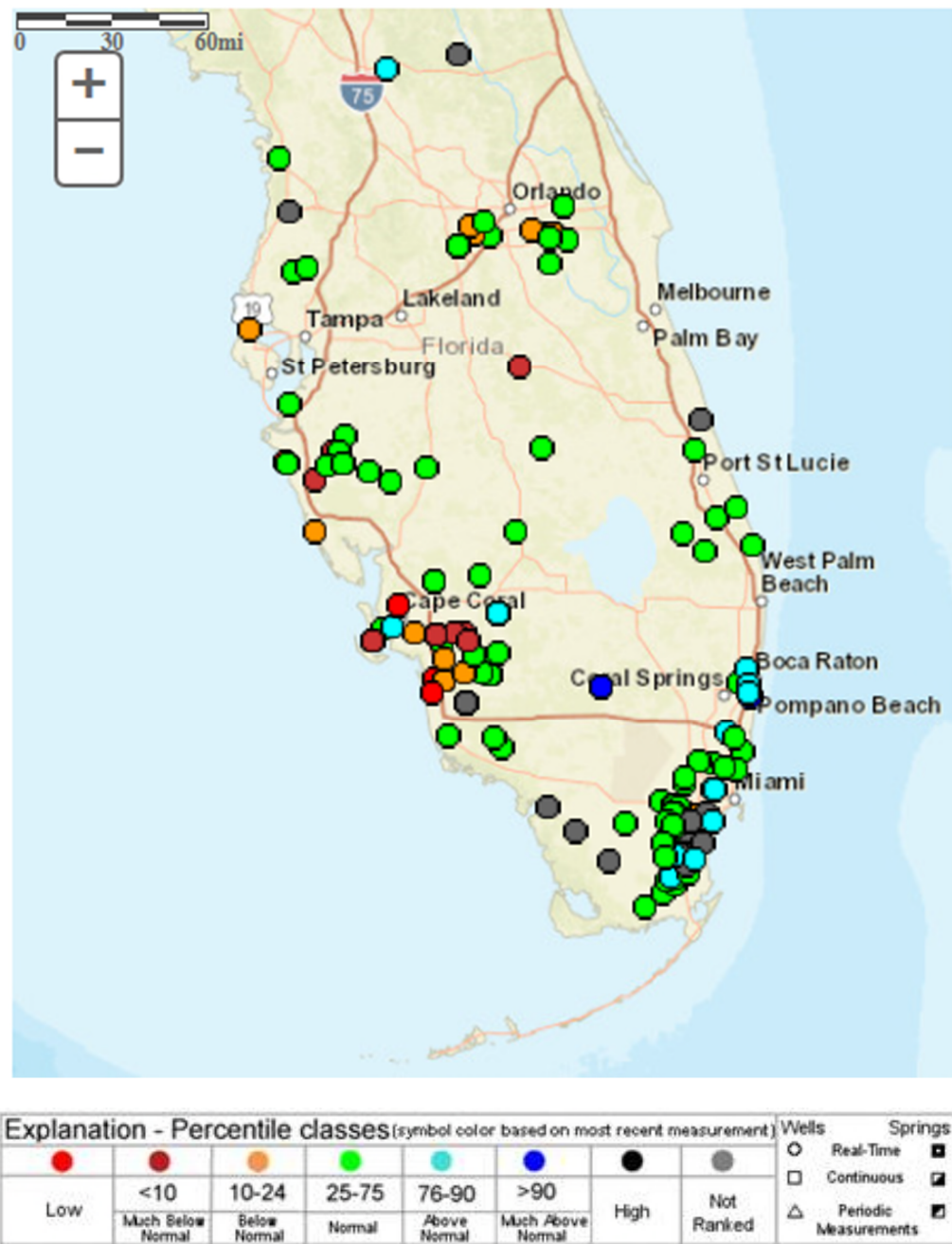


Figure 1. [Florida Real-Time Groundwater Level Network Map](#)

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -1.59 classified as “dry,” and is in the “moderate” risk category. The LOK stage for the next two months is projected to be in the Beneficial Use Sub-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 “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” range, with “low” risk to water supply. The Multi-Seasonal Net Inflow Forecast is projected as “normal” with “moderate” risk to water supply. The stages in Water Conservation Areas 1, 2A and 3A are above line 1 and are in the “low” risk category. Year-Round Irrigation Rule is in effect for the LEC Service Areas. **Figure 2** summarizes the water supply risk indicators.

LORS2008 Implementation on 4/30/2018 (ENSO La Nina Condition):

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Beneficial Use Sub Band	H
	Palmer Index for LOK Tributary Conditions	-1.59 (Dry)	M
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	1.98 ft	L
	ENSO La Nina Years	(Normal to Extremely Wet)	
	LOK Multi-Seasonal Net Inflow Outlook	2.48 ft (Normal)	M
WCAs	ENSO Conditions		
	WCA 1: Station Average (Site 1-7, Site 1-8T, Site 1-9)	Above Line 1 (16.15 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (11.84 ft)	L
LEC	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (8.86 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