

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: May 19th, 2020

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 Upper Kissimmee Basin (UKB) within the District boundaries are at median levels for this time of year. These wells are completed in the Floridan and surficial aquifers. Groundwater levels are in the lower percentile ranges in some parts of the Lower Kissimmee Basin (LKB). The majority of the surface and groundwater stations throughout the KB recorded decreases in water levels over the last week.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 22.84, 20.36, and 19.57 feet, all above the fourteen feet agricultural cut-off. Most of the surficial aquifer stations are now at median levels. Surface and groundwater levels increased in the majority of the Lower East Coast (LEC) stations over the past week. About two thirds of the Biscayne aquifer monitor wells in Miami-Dade County are now at median levels, with most of the remainder in the lower percentile ranges.

Groundwater levels decreased in over half of the Lower West Coast (LWC) stations over the last seven days. Water Shortage restrictions are in effect for Lee County at this time. About sixty percent of the Surficial aquifer wells are at median levels, with the remainder in the lower percentile ranges. Approximately sixty percent of the Lower Tamiami aquifer wells are also at median levels for this time of year, with the remainder 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 in the upper percentile ranges.

Figure 1 summarizes current conditions.

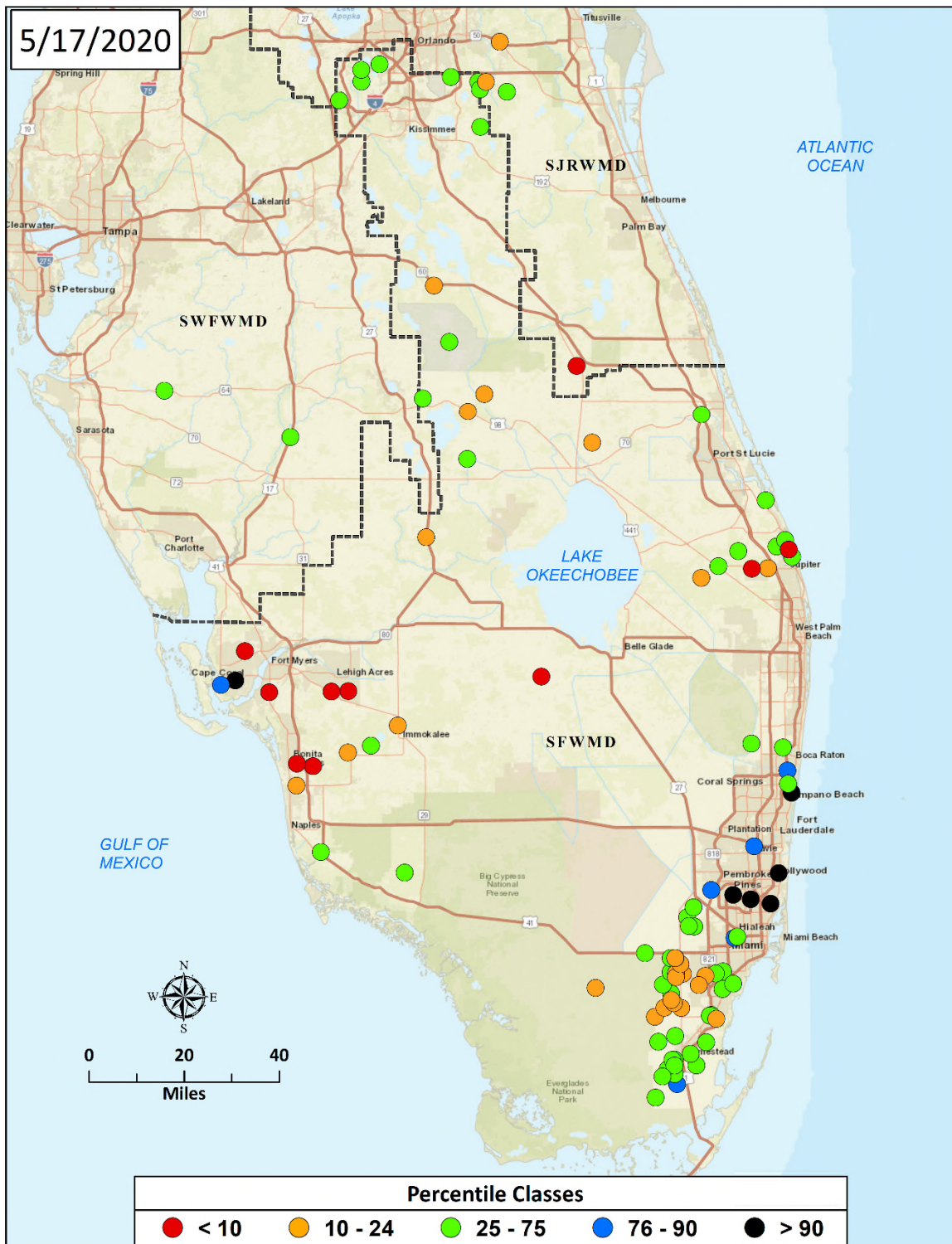


Figure 1. Real-Time Groundwater Level Map

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -2.72 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 “moderate.” 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. All Service Areas are in the “low” risk category for water supply. **Figure 2** summarizes the water supply risk indicators.

LORS2008 Implementation on 05/18/2020 (ENSO Neutral Condition):

Status for week ending 05/18/2020:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Beneficial Use Sub band	M
	Palmer Index for LOK Tributary Conditions	-2.72 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	2.54 ft	L
	ENSO Forecast (positive)	Normal to Extremely wet	L
	LOK Multi-Seasonal Net Inflow Outlook	2.90 ft	M
WCAs	ENSO Forecast (positive)	Normal	M
	WCA 1: Site 1-8C	Above Line 1 (15.67 ft)	L
	WCA 2A: Site S-11B	Below Line 2 (10.04 ft)	H
LEC	WCA-3A: S-333 HW	Line 1 – Line 2 (7.62 ft on May 17, 2020)	M
	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