

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: August 9th, 2016

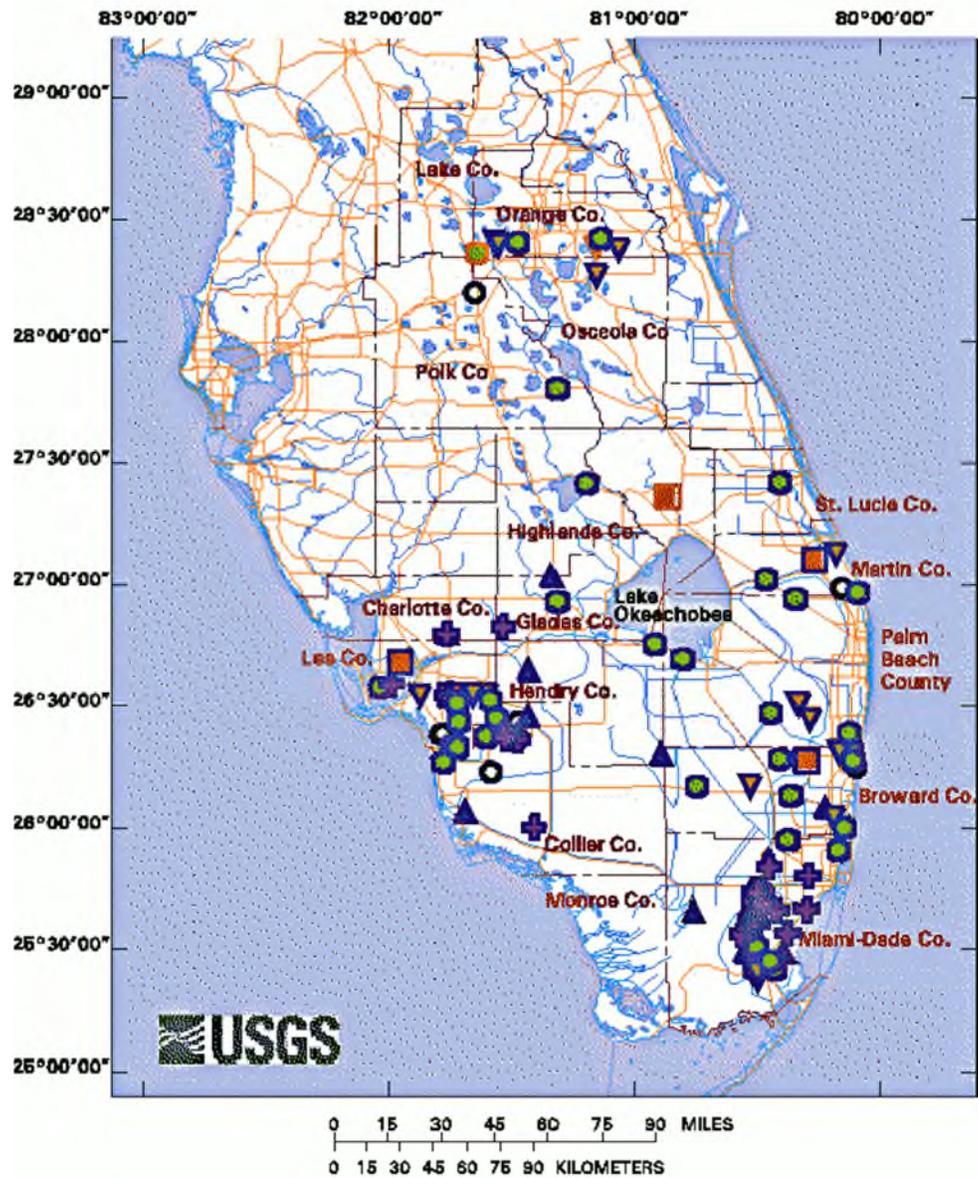
SUBJECT: Water Supply Report

District-wide Conditions

Surface and groundwater levels showed mixed trends throughout the District over the last week. Approximately two thirds of United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries were in the median percentile range or higher for this time of year. Most of the surface and groundwater stations across the KB recorded decreases in water levels during the last seven days. Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 were at 21.80, 20.01, and 19.08 feet, respectively, well above the 14 feet NGVD agricultural cutoff level. About two thirds of UEC surficial aquifer wells are in the median percentile range or higher for this time of year, with most of the remainder in the lower 10th to 30th percentile range. Surface and groundwater levels increased in about three quarters of the stations in the Biscayne aquifer. Approximately three quarters of the USGS Biscayne aquifer monitor wells are in their median percentile range or higher at this time. Most of the remainder is in the lower 10th to 30th percentile range.

In the Lower West Coast (LWC), groundwater levels increased in the majority the monitor wells over the last seven days. Most of the wells in the Surficial aquifer are in the median percentile range or higher for this time of year. The majority of the Lower Tamiami aquifer wells are at median levels or higher. Approximately eighty percent of Sandstone aquifer monitor wells are in the median percentile range or higher for this time of year. About two thirds of the Mid-Hawthorn aquifer monitor wells are at median levels or higher for this time of year, with most of the remainder in the lowest 10th percentile range. **Figure 1** is a USGS map showing conditions on August 8th, 2016, from a 7-day running average of daily recorded water levels compared to the statistical distribution of daily water levels for the period of record for selected sites in southern Florida.

PROVISIONAL DRAFT -- Subject to Revision



**Water levels at selected sites in South Florida,
Based on PROVISIONAL DATA, as of August 8, 2016.**

**Figure 1. Current Water-level Conditions in South Florida (source: USGS,
http://www.sflorida.er.usgs.gov/ddn_data/index_ndt.html)**

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -0.76, classified as “normal,” and is in the “low” risk category. The LOK stage for the next two months is projected to be in the Low Flow Sub-Band, and the risk to water supply is categorized as “low.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “normal” for one month and “above normal” for three months, leaving both the one month outlook and the 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 the Water Conservation Areas are all above line 1 and are in the “low” risk category. Groundwater levels in LEC Service Areas are in the “low” risk category. The Year-Round Irrigation Rule is in effect for the LEC Service Areas. **Figure 2** summarizes the water supply risk indicators.

LORS2008 Implementation on 8/8/2016 (ENSO Neutral Condition):

Status for week ending 8/8/2016:

District wide, Raindar rainfall was 2.19 inches for the week. Lake stage on 8/8/2016 was 14.61 ft, down 0.02 ft from last week.

The updated August 2016 SFWMM Dynamic Position Analysis [percentile graph](#) for Lake Okeechobee show that the current lake stage is in the Low Operational Sub-Band.

The LORS2008 tributary [indices](#) are classified as **Normal**. The PDSI indicates normal condition and the LONIN is Normal. The classification is based on the wetter of the two.

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 Index for LOK Tributary Conditions	-0.76 (Normal)	L
	CPC Precipitation Outlook	1 month: Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Forecast ENSO Neutral Years	2.65 ft (Normal to Extremely Wet)	L
	LOK Multi-Seasonal Net Inflow Forecast ENSO Neutral Years	2.68 ft (Normal)	M
	WCAs	WCA 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Above Line 1 (16.10 ft)
WCA 2A: Site 2-17 HW		Above Line1 (12.30 ft)	L
WCA-3A: 3 Station Average (Site 63, 64 and 65)		Above Line 1 (9.97 ft)	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 forecasts use slightly different classification intervals than those used by the 2008-LORS.

Figure 2. Water Supply Risk Indicators