

MEMORANDUM

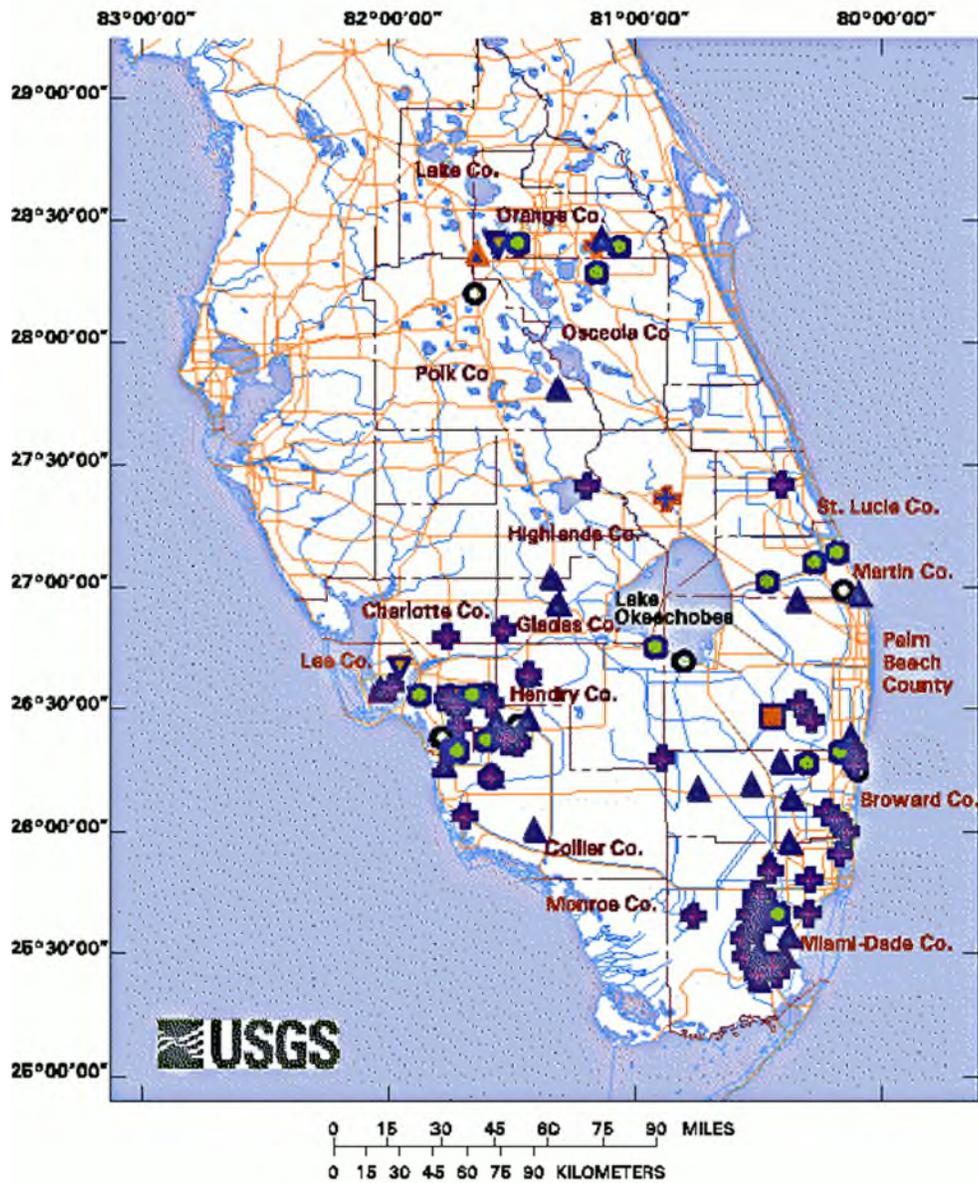
TO: John Mitnik, Bureau Chief, Engineering and Construction
THROUGH: Dean Powell, Bureau Chief, Water Supply
FROM: SFWMD Staff Water Supply Advisory Team
DATE: January 19th, 2016
SUBJECT: Water Supply Report

District-wide Conditions

Groundwater levels generally increased throughout most of the District over the last week. The majority 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. The majority of the surface and groundwater stations in the KB recorded increases 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 21.63, 19.73, and 21.08 feet, respectively, well above the 14 feet NGVD agricultural cutoff level. About half of the UEC surficial aquifer wells are at median levels with the remainder mostly in the upper 10th to 30th percentile range for this time of year. Surface and groundwater levels increased in about three quarters of the stations in the Biscayne aquifer. Approximately two thirds of the USGS Biscayne aquifer monitor wells are still in their upper 10th percentile range at this time.

In the Lower West Coast (LWC), groundwater levels increased across the basin over the last seven days. The majority of the wells in the surficial, Lower Tamiami, and Sandstone aquifers are at median levels or higher for this time of year. Approximately three quarters of the Mid-Hawthorn aquifer wells are at median levels or higher for this time of year, with the remainder in the lower 10th to 30th percentile range or lower. **Figure 1** is a USGS map showing conditions on January 18th, 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 January 18, 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 -0.54, 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 “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 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 “wet,” with “low” 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.

Figure 2. Water Supply Risk Indicators

LORS2008 Implementation on 1/18/2016 (ENSO El Nino Condition):

Water Supply Department Technical Input

Water Supply Outlook:

District wide, Raindar rainfall 2.12 inches for the week ending 1/19/2016. Lake stage on 1/18/2016 is 15.05 ft, up 0.25 ft from last week.

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

The LORS2008 tributary [indices](#) are classified as **Wet**. The PDSI indicates normal condition and the LONIN is Wet. 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 Flow Sub-Band	M
	Palmer Index for LOK Tributary Conditions	-0.54 (Normal)	L
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Forecast	1.51 ft (Normal to Extremely Wet)	L
	AMO warm/El Nino		
	LOK Multi-Seasonal Net Inflow Forecast	3.53 ft (Wet)	L
AMO warm/El Nino			
WCAs	WCA 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Above Line 1 (17.10 ft)	L
	WCA 2A: Site 2-17 HW	Above Line1 (12.17 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (10.57 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 for classifying the tributary hydrologic condition (THC).