

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: January 31, 2023

SUBJECT: Water Supply Report

District-wide Conditions

Groundwater levels in the majority of United States Geological Survey (USGS) and SFWMD wells in the Kissimmee Basin (KB) are in the median and upper percentile ranges for this time of year. The wells in the Upper KB are mostly completed in the Floridan aquifer and the wells in the Lower KB are surficial aquifer system wells. Surface and groundwater levels decreased across most of the KB over the last seven days.

Upper East Coast (UEC) groundwater levels decreased, and surface water levels showed mixed trends during the past week. Stages in UEC canals C-23, C-24, and C-25 are 22.92, 20.86, and 22.10 feet, all above the fourteen feet agricultural cut-off. The majority of the UEC wells are at median levels for this time of year. Groundwater levels are on the low side in the Fort Pierce area.

The majority of surface and groundwater stations in the Lower East Coast recorded decreases over the past seven days. Surface water levels are on the low side in the C-111 basin (S-176 and S-177) and Homestead area. About three quarters of the LEC stations are in the median and upper percentile ranges for this time of year, with the remainder in the lower percentile ranges.

Groundwater levels in the majority of the Lower West Coast (LWC) wells decreased over the last week. The wells in the surficial and Lower Tamiami aquifers are at median levels and higher for this time of year. Approximately three quarters of Sandstone aquifer wells are in the median and upper percentile ranges and two thirds of the Mid-Hawthorn aquifer wells are in the lower percentile ranges. **Figure 1** summarizes current water level conditions.

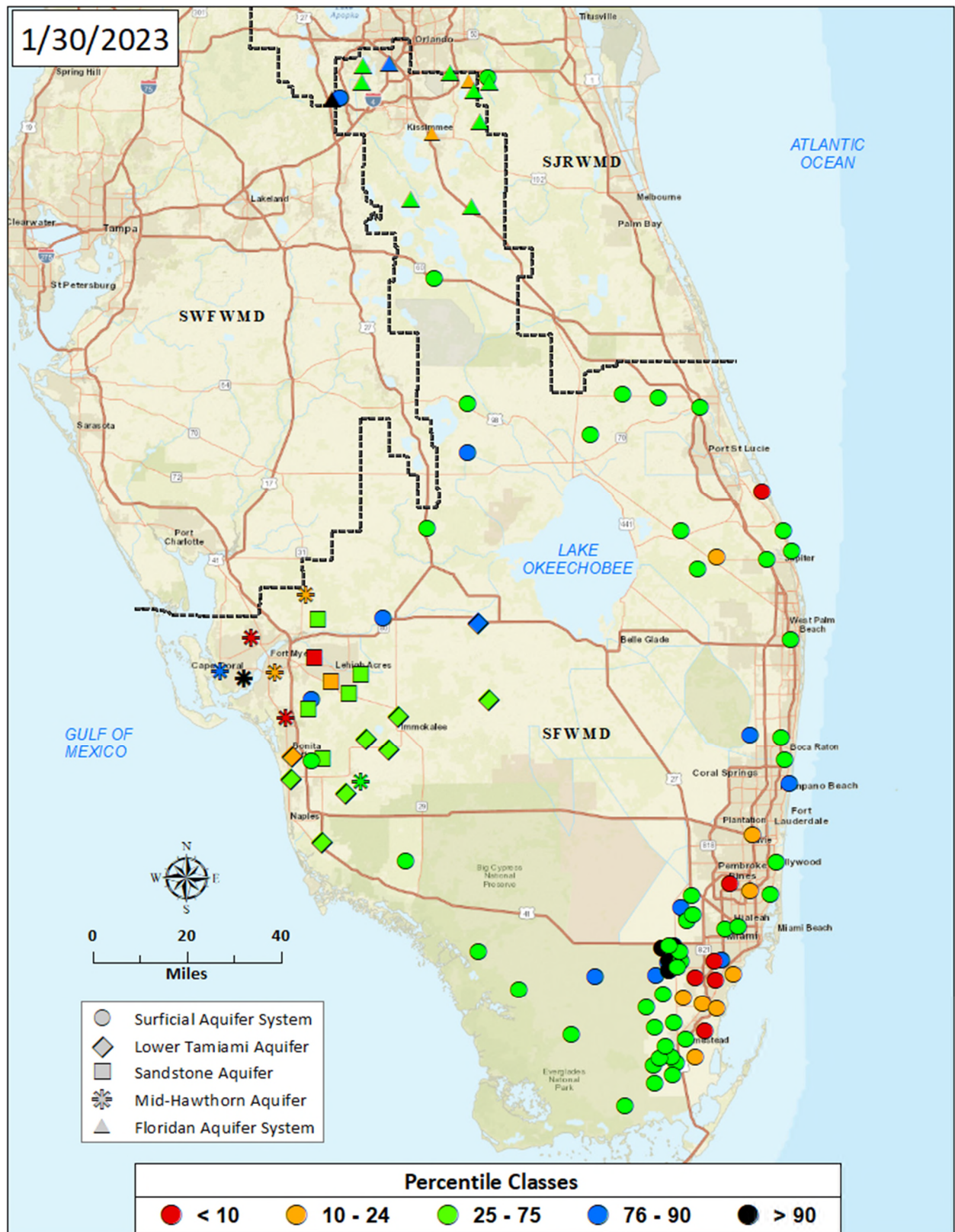


Figure 1. Current Water Level Conditions

Water Supply Technical Input to LORS2008

The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions was -0.22 which is classified as “Normal to Extremely Wet” and is in the “low” risk category for water supply. The projected LOK stage for the next two months is Low Sub-Band, and the risk to water supply is categorized as “moderate”. The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “below normal” for both one month and three months, leaving both in the “moderate” risk category. The LOK Seasonal Net Inflow Outlook is “dry” and is in the “moderate” risk for water supply. The LOK Multi-Seasonal Net Inflow Outlook is in the “normal” range with “moderate” risk to water supply. The stages in WCA 1, WCA-2, and WCA-3 are all above line 1 and are in the “low” risk category. The Year-Round Irrigation Rule is in effect for the three LEC Service Areas. All three LEC Service Areas are in the “low” risk category for water supply. **Figure 2** summarizes the water supply risk indicators.

LORS2008 Implementation on 01/30/2023 (ENSO Condition- La Niña Watch):

Status for week ending 01/30/2023*:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-band	M
	Palmer Drought Index for LOK Tributary Conditions	-0.22 (Normal to Extremely Wet)	L
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	0.18 ft	M
	ENSO Forecast	Dry	
	LOK Multi-Seasonal Net Inflow Outlook	2.55 ft	M
	ENSO Forecast	Normal	
WCAs	WCA 1: 3 Station Average (Sites 1-8C)	Above Line 1 (17.04 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.00 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.72 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 outlooks use slightly different classification intervals than those used by the 2008-LORS.

*- S308 flow data for Jan 26 and 27 is not available from the USACE Daily Reports and was substituted with alternative data sources on DBHYDRO

Figure 2. Water Supply Risk Indicators