

. M E M O R A N D U M

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: June 21, 2022

SUBJECT: Water Supply Report

District-wide Conditions

Due to database issues, no water District-wide water conditions map was able to be produced this week.

Surface and groundwater levels showed mixed trends throughout the District over the last week. The wells in the northern portion of the KB are mostly completed in the Floridan aquifer and the wells in southern KB in the surficial aquifer system. All the surface water and groundwater stations across the Kissimmee Basin decreased since last week. Lake Weohyakapka and surface water station S-68 are in the “yellow” caution zone, and surface water station S-65 remains in the “red” caution zone.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 20.86, 19.01, and 20.10 feet, all above the fourteen feet agricultural cut-off. About 85 percent of the Lower East Coast (LEC) stations recorded decreasing water levels over the last seven days. G-620 (in Everglades National Park) and S-176 (C-111 Basin) are in the “yellow” caution zone. All the LEC surface and groundwater stations are at median levels and higher for this time of year.

Groundwater levels decreased in about 55 percent the Lower West Coast (LWC) stations over the past seven days. The largest decrease in the Lower Tamiami Aquifer was 2.07 feet at C-462 in Immokalee. Lower Tamiami well C-1004R is in the “yellow” caution zone, and Mid-Hawthorn wells L-742 (Ft. Myers) and L-4820 (North Cape Coral) are in the “red” caution zone. Sandstone aquifer wells in Lehigh Acres increased by 0.36 ft at L-2186 and 0.25 feet at L-729, and L-2194 in Bonita Springs decreased by 0.21 ft since last week. All the Mid Hawthorn aquifer wells increased since last week with the largest increase being recorded at L-581 in Cape Coral (0.43 ft). Mid-Hawthorn wells L-742 (Fort Myers) and L-4820 (North Cape Coral) remain in the “red” caution zone.

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -2.47 on June 20, 2022 and is classified as “extremely dry,” and is in the “high” risk category for water supply. The projected LOK stage for the next two months is Base Flow, and the risk to water supply is categorized as “moderate.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “normal” for one month and “normal” for three months, leaving 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 LOK Multi-Seasonal Net Inflow Forecast is in the “wet” range with “low” risk to water supply. The stage in WCA 1 is above line 1 and is in the “low” risk category. The stage in WCA 2 is above line 1 and is in the “low” risk category. 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.

Figure 2. Water Supply Risk Indicators

LORS2008 Implementation on 06/20/2022 (ENSO Condition- La Nina Watch):
Status for week ending 06/20/2022:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Base Flow	M
	Palmer Drought Index for LOK Tributary Conditions	-2.47 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Normal	L
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	2.83 ft	L
	ENSO Forecast	Normal to extremely wet	L
	LOK Multi-Seasonal Net Inflow Outlook	3.04 ft	L
ENSO Forecast	Wet	L	
WCAs	WCA 1: Site 1-8C	Above Line 1 (16.41 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (13.11 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.74 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.