

## MEMORANDUM

**TO:** John Mitnik, Assistant Executive Director

**THROUGH:** Peter Kwiatkowski, Section Administrator, Resource Evaluation

**FROM:** SFWMD Staff Water Supply Advisory Team

**DATE:** September 6, 2022

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

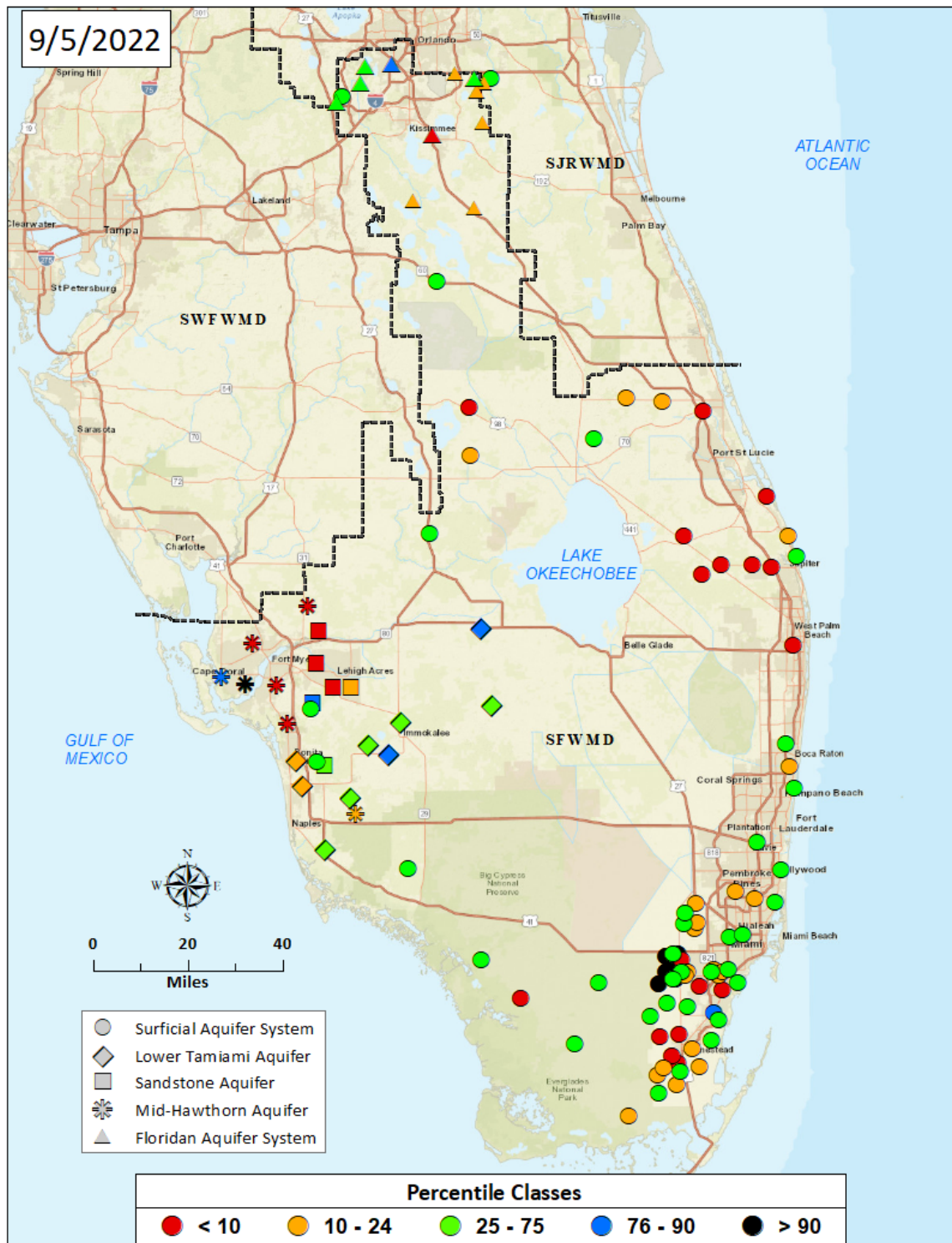
**Figure 1** shows a statistical comparison between current groundwater levels and groundwater levels for this time last year at representative wells throughout the District that collect real-time groundwater levels.

The water levels in about 45 percent of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) are in the lower percentile ranges for this time of year (Figure 1). 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 increased in 75 percent of the Kissimmee Basin stations over the last seven days. Floridan aquifer well OSF-70R remains in the “yellow” caution zone.

Upper East Coast (UEC) surface water levels increased, and groundwater levels decreased in the Upper East Coast since last week. Stages in the UEC canals C-23, C-24, and C-25 are 21.44, 19.40, and 21.44 feet, all above the fourteen feet agricultural cut-off. About 85 percent of the UEC surficial aquifer stations are in the lower percentile ranges for this time of year (Figure 1), and surficial aquifer system well STL-213 is in the “yellow” caution zone.

About 60 percent of the surface and groundwater stations in the Lower East Coast (LEC) recorded decreasing trends over the past seven days. S-177 (C-111 basin) is in the “yellow” caution zone and S-176 (C-111 basin) is in the “red” caution zone. About half of the LEC surficial aquifer system stations are in the lower percentile ranges for this time of year (Figure 1).

In the Lower West Coast (LWC), 85 percent of the groundwater stations increased over the last week. Twenty percent of the surficial aquifer system wells and about 30 percent of the Lower Tamiami aquifer wells are in the lower percentile ranges for this time of year (Figure 1). Fifty percent of the Sandstone aquifer wells are in the lower percentile ranges and about 70 percent of the Mid-Hawthorn aquifer wells are in the lower percentile ranges (Figure 1). Mid-Hawthorn aquifer L-4820 in North Cape Coral is in the “red” caution zone.



**Figure 1.** Map showing a statistical comparison between current groundwater levels and groundwater levels for this time last year

## **Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions was -4.22 on September 5, 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 Beneficial Use, 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 the one-month outlook in the “low” risk category and three-month outlook in the “low” risk category. The LOK Seasonal Net Inflow Outlook is in the “normal” category and is in the “low” risk category. 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.

**Figure 2. Water Supply Risk Indicators**

### **LORS2008 Implementation on 09/05/2022 (ENSO Condition- La Niña Watch):**

**Status for week ending 09/05/2022:**

#### **Water Supply Risk Evaluation**

| <b>Area</b> | <b>Indicator</b>                                  | <b>Value</b>                         | <b>Color Coded Scoring Scheme</b> |
|-------------|---|--------------------------------------|-----------------------------------|
| <b>LOK</b>  | Projected LOK Stage for the next two months       | Beneficial Use                       | M                                 |
|             | Palmer Drought Index for LOK Tributary Conditions | -4.22<br>(Extremely Dry)             | H                                 |
|             | CPC Precipitation Outlook                         | 1 month: Above Normal                | L                                 |
|             |   | 3 months: Above Normal               | L                                 |
|             | LOK Seasonal Net Inflow Outlook                   | 1.21 ft                              | L                                 |
|             | ENSO Forecast                                     | Normal                               | L                                 |
|             | LOK Multi-Seasonal Net Inflow Outlook             | 1.15 ft                              | M                                 |
| <b>WCAs</b> | ENSO Forecast                                     | Normal                               | M                                 |
|             | WCA 1: Station Average (Sites 1-7, 1-8T, and 1-9) | Above Line 1 (16.32 ft)              | L                                 |
|             | WCA 2A: Site 2-17                                 | Above Line 1 (12.17 ft)              | L                                 |
| <b>LEC</b>  | WCA-3A: 3 Station Average (Sites 63, 64, and 65)  | Above Line 1 (9.41 ft)               | L                                 |
|             | 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.