

## MEMORANDUM

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

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

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

**DATE:** August 10<sup>th</sup>, 2021

**SUBJECT:** Water Supply Report

### District-wide Conditions

Surface and groundwater levels showed mixed trends throughout the District over the last week. The majority of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels for this time of year. 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. Most of the surface and groundwater stations throughout the KB recorded increases in water levels over the last week.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 20.92, 18.17, and 18.26 feet, all above the fourteen feet agricultural cut-off. About half of the surficial aquifer stations are at median levels for this time of year, with the remainder in the lower percentile ranges. Surface and groundwater levels increased in about three quarters of the Lower East Coast (LEC) stations during the past week. Approximately ninety percent of the Biscayne aquifer wells are at median levels and higher for this time of year. Groundwater levels are on the low side in Everglades National Park.

Groundwater levels increased in most of the stations on the Lower West Coast (LWC) over the last seven days. The majority of the surficial aquifer wells are at median levels for this time of year. About two thirds of Lower Tamiami aquifer wells are at median levels, with the remainder in the lower percentile ranges for this time of year. Approximately eighty percent of Sandstone aquifer wells are in the lower percentile ranges, with the remainder at median levels. About two thirds of the Mid-Hawthorn aquifer monitor wells are in the lower percentile ranges, with the remainder at median levels and higher for this time of year. **Figure 1** summarizes current conditions.

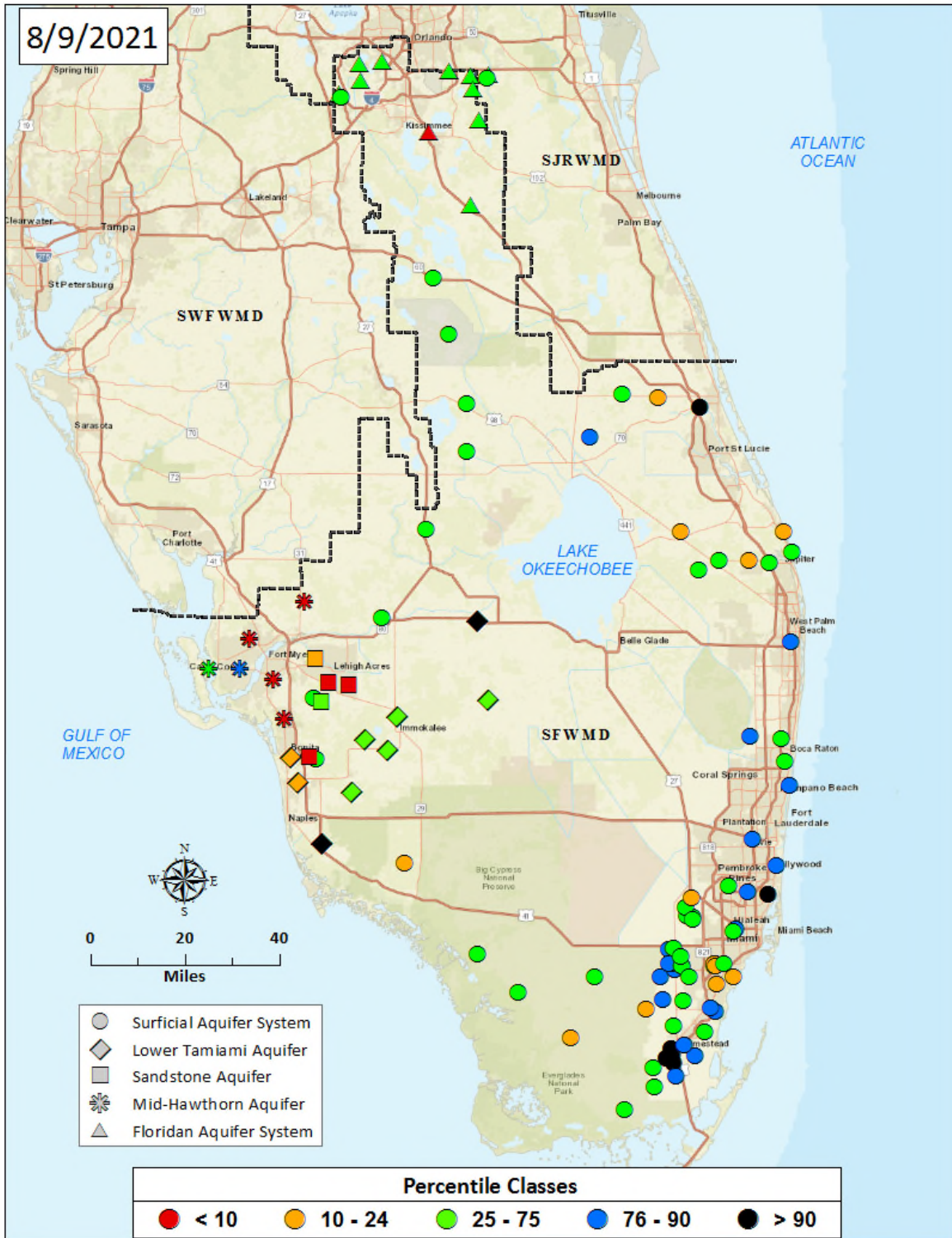


Figure 1. Real-Time Groundwater Level Map

**Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -0.45 and is classified as “normal to extremely wet,” and is in the “low” risk category for water supply. The LOK stage for the next two months is projected to be in the Low 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 “normal” for three months, leaving both the one-month 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 Multi-Seasonal Net Inflow Forecast is in the “normal” range with “moderate” risk to water supply. The stage in WCA 1, WCA 2A and WCA 3A are above line 1 and are 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.

**LORS2008 Implementation on 8/9/2021 (ENSO Condition- ENSO-neutral):**

Status for week ending 8/9/2021:

**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 Drought Index for LOK Tributary Conditions | -0.45<br>(Normal to Extremely Wet)   | L                          |
|               | CPC Precipitation Outlook                         | 1 month: Normal                      | L                          |
|               |   | 3 months: Normal                     | L                          |
|               | LOK Seasonal Net Inflow Outlook                   | 2.04 ft                              | L                          |
|               | ENSO Forecast                                     | Normal to Extremely Wet              | L                          |
|               | LOK Multi-Seasonal Net Inflow Outlook             | 1.99 ft                              | M                          |
| ENSO Forecast |   | Normal                               |                            |
| WCAs          | WCA 1: 3 Station Average (Site 1-7, 1-8T and 1-9) | Above Line 1 (16.61 ft)              | L                          |
|               | WCA 2A: Site 2-17                                 | Above Line 1 (12.50 ft)              | L                          |
|               | WCA-3A: 3 Station Average (Site 63, 64 and 65)    | Above Line 1 (9.63 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.

**Figure 2. Water Supply Risk Indicators**