

MEMORANDUM

TO: John Mitnik, Assistant Executive Director

THROUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation

FROM: SFWMD Staff Water Supply Advisory Team

DATE: November 29, 2022

SUBJECT: Water Supply Report

District-wide Conditions

All the United States Geological Survey (USGS) real-time 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 in about 70 percent of the KB stations decreased over the last seven days.

Upper East Coast (UEC) groundwater levels increased, and surface water levels showed mixed trends during the last week. Stages in UEC canals C-23, C-24, and C-25 are 22.91, 20.93, and 22.30 feet, all above the fourteen feet agricultural cut-off. All the UEC wells are at median and higher levels for this time of year.

The majority of surface and groundwater stations in the Lower East Coast recorded increases over the past seven days. Surface water levels are on the low side in the C-111 basin (S-176 and S-177). All the LEC surficial aquifer system stations are in the median and upper percentile ranges for this time of year.

Groundwater levels in about 70 percent of the Lower West Coast (LWC) wells decreased over the last week. The wells in the Surficial aquifer system, Lower Tamiami aquifer and Sandstone aquifer are in the median and upper percentile ranges for this time of year. About 70 percent of the Mid-Hawthorn aquifer wells are in the lower percentile ranges.

Figure 1 shows a statistical comparison between current groundwater levels and long-term groundwater levels at representative wells throughout the District that collect real-time groundwater levels.

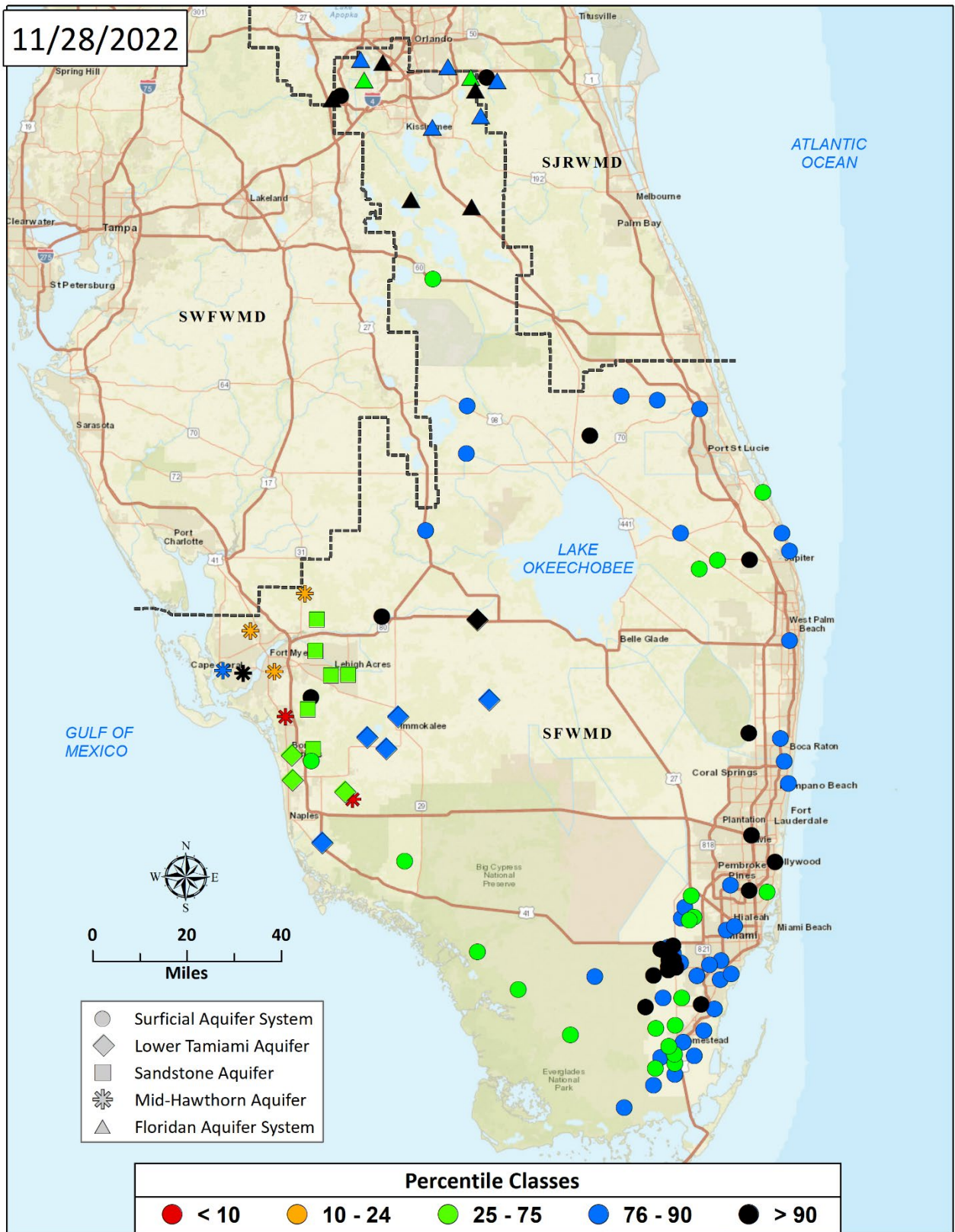


Figure 1. Current Groundwater Level Conditions

Water Supply Technical Input to LORS2008

The Palmer Drought Index for Lake Okeechobee (LOK) Tributary Conditions was -1.27 which is classified as “Dry” and is in the “moderate” risk category for water supply. The projected LOK stage for the next two months is Intermediate Sub-Band, and the risk to water supply is categorized as “low”. 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 11/28/2022 (ENSO Condition- La Niña Watch): Status for week ending 11/28/2022:

Water Supply Risk Evaluation

| Area | Indicator | Value | Color Coded Scoring Scheme |
|------|---|--------------------------------------|----------------------------|
| LOK | Projected LOK Stage for the next two months | Intermediate Sub-band | L |
| | Palmer Drought Index for LOK Tributary Conditions | -1.27 (Dry) | M |
| | CPC Precipitation Outlook | 1 month: Below Normal | M |
| | | 3 months: Below Normal | M |
| | LOK Seasonal Net Inflow Outlook | 0.49 ft | M |
| | ENSO Forecast | Dry | |
| | LOK Multi-Seasonal Net Inflow Outlook | 3.16 ft | M |
| WCAs | ENSO Forecast | Normal | |
| | WCA 1: 3 Station Average (Sites 1-7, 1-8T, 1-9) | Above Line 1 (17.44 ft) | L |
| | WCA 2A: Site 2-17 | Above Line 1 (13.31 ft) | L |
| LEC | WCA-3A: 3 Station Average (Sites 63, 64, and 65) | Above Line 1 (10.66 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.

Figure 2. Water Supply Risk Indicators