

## **2020 Central Florida Water Initiative Regional Water Supply Plan Reference Sheet**

Since 2015, the St. Johns River, Southwest Florida, and South Florida Water Management Districts, the Florida Department of Environmental Protection, the Florida Department of Agriculture and Consumer Services, utilities, and other stakeholders have collaboratively implemented numerous water supply initiatives to meet regional goals. These initiatives have significantly enhanced the knowledge, analytical abilities, and data available for development of this 2020 Central Florida Water Initiative Regional Water Supply Plan.

### **Modeling Upgrades**

Significant upgrades to the East Central Florida Transient groundwater flow model were completed, including expansion of the model extent, incorporation of improved water use data, implementation of consensus-based hydrogeology and model layering, and incorporation of more recent data to support model calibration. The resulting East Central Florida Transient Expanded groundwater flow model was completed with the inclusion of an independent peer review panel during model development.

### **Alternative Water Supply Development**

Several alternative water supply projects were completed, increasing the volume of reclaimed water used in the area and stormwater captured. From Fiscal Year 2015 through Fiscal Year 2019, the Districts provided approximately \$44.62 million for 39 alternative water supply projects that have been completed or are under construction. These projects will make available 94.3 million gallons per day of alternative water supply.

In addition, Lower Floridan Aquifer investigations at multiple locations in Polk County and installation and testing of over 15 Lower Floridan Aquifer wells throughout the Central Florida Water Initiative Planning Area as part of the Data, Monitoring, and Investigations Team have been completed or are ongoing.

### **Water Conservation**

A Water Conservation Implementation Strategy was approved by the Steering Committee in October 2019.

### **Regional Cooperation**

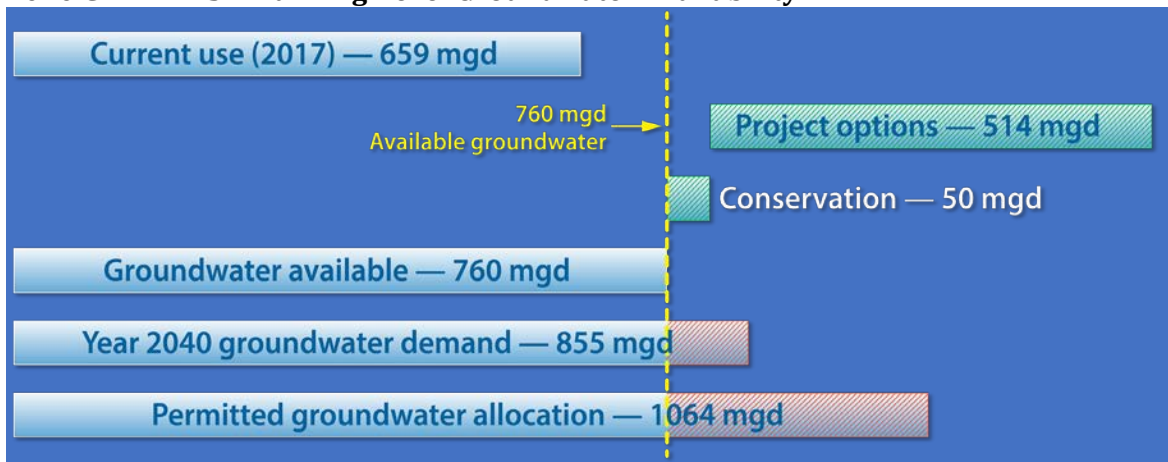
Regional cooperation has continued and expanded to efficiently and effectively meet the water needs of the Central Florida Water Initiative Planning Area. For example, the Polk Regional Water Cooperative was created in 2016 and includes Polk County and 15 municipal member governments. The Polk Regional Water Cooperative provides for regional cooperation on the development of alternative water sources to meet future water demands within Polk County.

## 2020 Regional Water Supply Plan Conclusions

The 2020 Central Florida Water Initiative Regional Water Supply Plan concludes that current and future demands can be met through 2040, while sustaining the water resources and related natural systems, with appropriate management, continued diversification of water supply sources, water conservation, and implementation of identified water supply and water resource development projects.

- Based on the groundwater availability evaluation, it was estimated that regionally, up to 760 million gallons per day of fresh groundwater withdrawals could be potentially sustained, but local management strategies will be needed (e.g., wellfield optimization, aquifer recharge, and natural system enhancement) to address unacceptable impacts.
- Additional fresh groundwater withdrawals beyond 760 million gallons per day are limited by water resource and natural system constraints. Of note, two Outstanding Florida Springs (Rock and Wekiwa, both in the St. Johns River Water Management District) are predicted to not meet their Minimum Flows and Levels beyond fresh groundwater withdrawals of 760 million gallons per day.
- Based on the 2040 groundwater demand projections (855 million gallons per day), the resulting groundwater shortfall is approximately 95 million gallons per day.

### 2020 CFWI RWSP Planning-Level Groundwater Availability



Note: Values are shown in million gallons per day

### CFWI Planning-Level Groundwater Availability Assessment

Model Scenarios	Environmental Measures		
	MFLs and MFL-related (39 criteria)	Plains Wetlands (139,000 acres)	Ridge Wetlands (50,000 acres)
2014 (~620 mgd)	11 Not Met	16,700 ac	18,700 ac
2025 (~760 mgd)	11 Not Met	17,400 ac	19,200 – 21,400 ac
2030 (~800 mgd)	13 Not Met	17,700 ac	19,400 – 22,200 ac
2040 (~860 mgd)	15 Not Met	18,100 ac	19,700 – 23,400 ac

Note: Modeling scenario values are shown in million gallons per day and “ac” denotes acres