SUWANNEE-SATILLA REGION

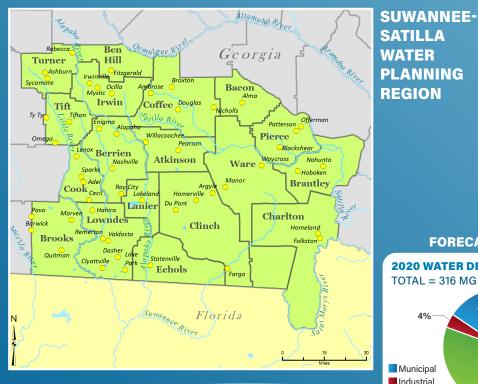
BACKGROUND

The Suwannee-Satilla Regional Water Plan was initially completed in 2011 and subsequently updated in 2017 and 2023. The plan outlines near-term and longterm strategies to meet water needs through 2060. Major water resources include the Suwannee, Satilla, and St. Marys rivers, some of their tributaries and the Floridan aquifer system. The Suwannee-Satilla Region encompasses several major population centers including Douglas, Tifton, Waycross and Valdosta.

OVERVIEW OF SUWANNEE-SATILLA REGION

The Suwannee-Satilla Region encompasses 18 counties in the south central portion of Georgia. Over the next 40 years, the population of the region is projected to increase from approximately 416,000 to 435,000 residents. Key economic drivers in the region include agriculture, forestry, professional and business services, education, healthcare, manufacturing, public administration, and construction. Recreation and fishing are also important to the area.

Groundwater, mainly from the Floridan aquifer, is needed to meet about 79% of the future water needs of the Region, with agriculture, municipal, domestic, and industry uses being the dominant demand sectors. Surface water is needed to meet about 21% of these needs, with agriculture as the dominant demand sector.

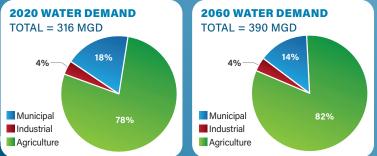




KEY WATER RESOURCE ISSUES ADDRESSED BY THE COUNCIL

- 1. Periodic challenges in modeled surface water availability in the Suwannee and Satilla river basins
- 2. Sufficient surface water quantity and quality to accommodate future municipal and industrial wastewater needs
- Low dissolved oxygen reaches in the Suwannee, Satilla and Saint Mary's river basins and other water quality issues
- 4. Development of groundwater and surface water resources to meet future needs
- 5. Protection of recreational and environmental resources in the region

FORECASTED REGIONAL WATER DEMANDS



Georgia's State Water Plan

SUWANNEE-SATILLA REGION

For more information, please go to:

waterplanning.georgia.gov/suwannee-satilla-water-planning-region

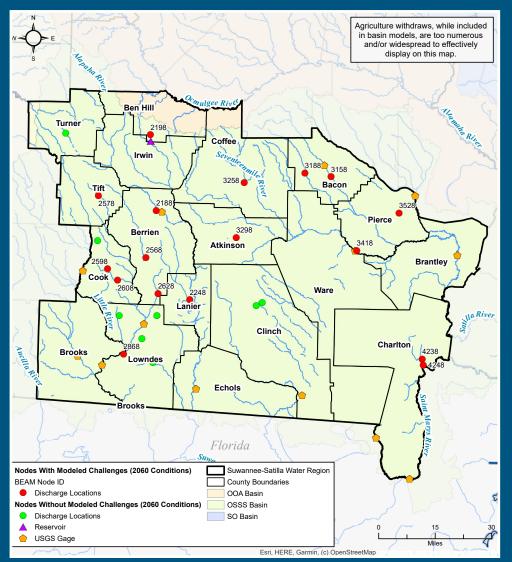
SUMMARY OF 2023 RESOURCE ASSESSMENT RESULTS

GROUNDWATER: At the regional level, for modeled aquifers, no groundwater resource shortfalls are expected to occur in the Suwannee-Satilla Region over the planning horizon.

SURFACE WATER QUALITY: Assimilative capacity assessments indicate the potential need for improved wastewater treatment within the Suwannee, Satilla and St. Marys river basins. Addressing non-point sources of pollution and existing water quality impairments will be a part of addressing the region's future needs.

SURFACE WATER AVAILABILITY: Over the next 40 years, the modeling analysis indicates that forecasted surface water demand within the Suwannee-Satilla Region is projected to result in potential challenges in several Counties throughout the Region including Atkinson, Bacon, Ben Hill, Berrien, Charlton, Cook, Coffee, Lanier, Lowndes, Pierce, Tift, and Ware. A map of the surface water availability model node locations with and without surface water quantity modeled challenges is provided below.

POTENTIAL 2060 SURFACE WATER CHALLENGES IN THE SUWANNEE-SATILLA REGION



SUWANNEE-SATILLA MANAGEMENT PRACTICES

The Suwannee-Satilla Plan describes over 70 management practices targeted toward current and future needs. Actions for surface and groundwater are grouped and listed by the water use sectors that will implement them. The Plan also includes practices for resources shared with other regions. Representative practices are summarized here.

WATER CONSERVATION: The

Suwannee-Satilla Council supports the 25 water conservation goals contained in the 2010 Water Conservation Implementation Plan (WCIP), including adherence to Tier 1/Tier 2 measures. Other recommendations include irrigation audits and metering of irrigation systems.

WATER SUPPLY: Provide incentives for dry-year releases from farm ponds, groundwater development, wetland restoration, and increases in wastewater returns. Study feasibility of seasonal surface water permit conditions.

WASTEWATER & WATER

QUALITY: Increase permitted wastewater capacity; monitor nutrient pollution; upgrade or replace treatment facilities.

INFORMATION NEEDS: Acquire additional data/information on agricultural consumptive use to confirm or refine if it is less than 100% consumptive; data collection to confirm loading and/or receiving stream chemistry.

RECOMMENDATIONS TO STATE:

Focus on education, incentives, collaboration, cooperation, and enabling and supporting plan implementers; institutionalize and fund water planning; focus funding and assistance on areas with shortfalls. Work with Georgia EPD's Agricultural Water Metering Program, as well as other partners to improve agricultural water use data collection and management.