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Introductions of the WaterSC Working Group



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State Water Planning History

Rob Devlin, Bureau of Water
October 30, 2024

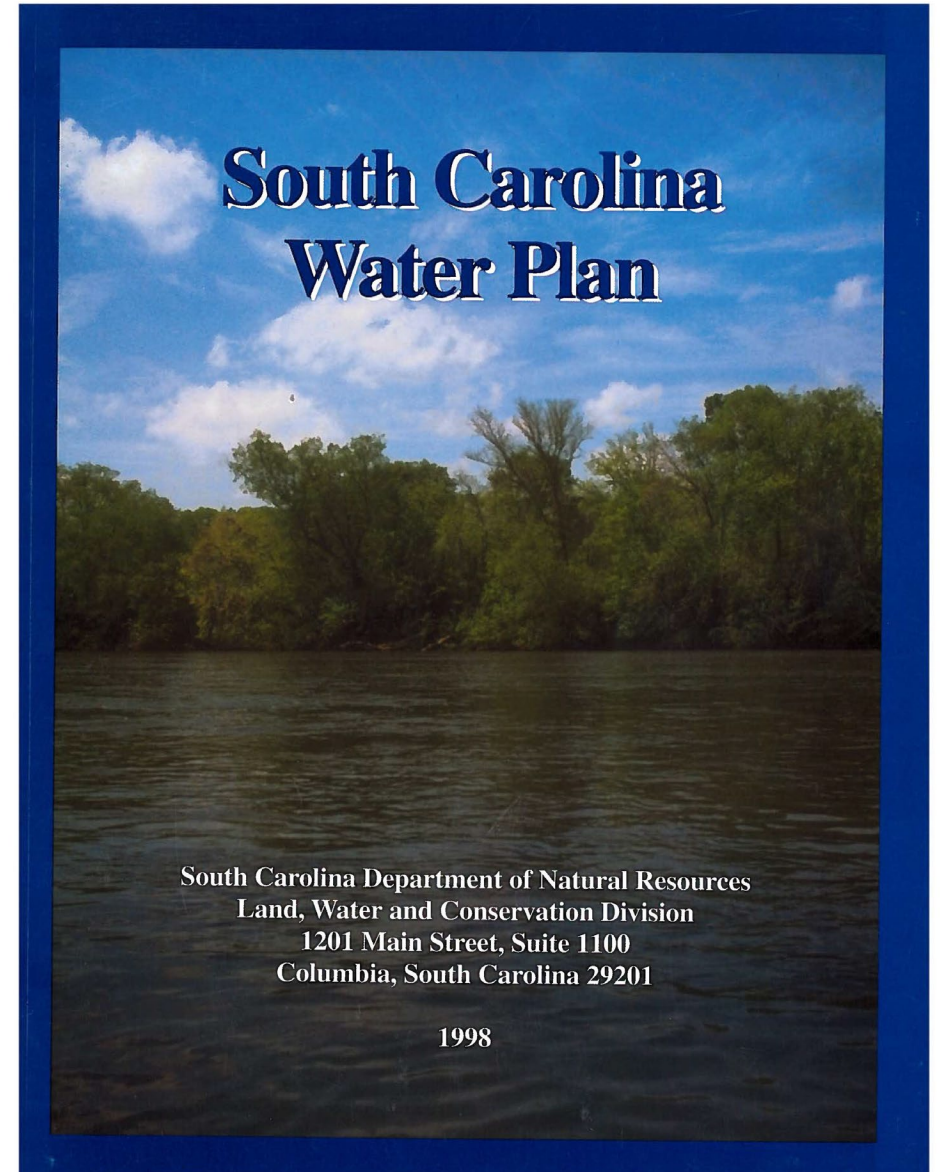


Initial South Carolina Water Plan

In 1998, SCDNR published the state's first Water Plan.

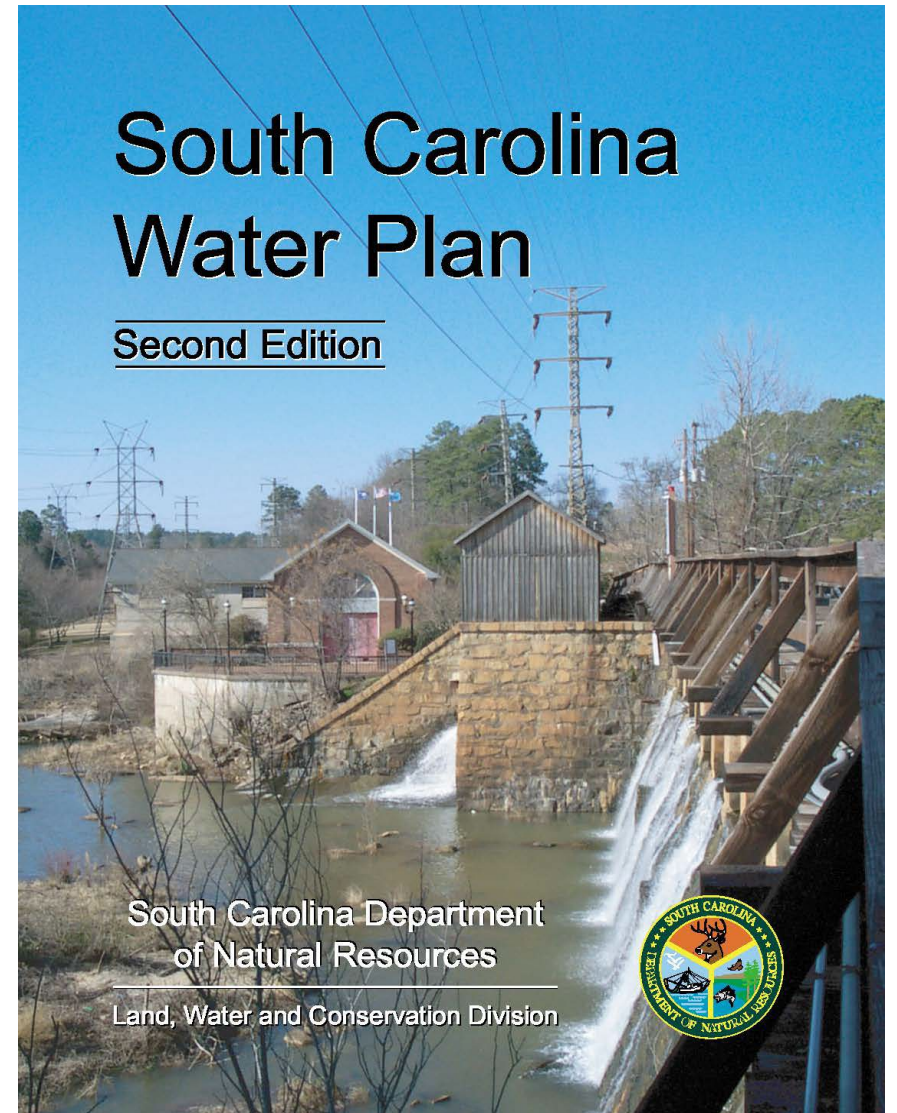
Key elements include:

- Increasing demands on water resources
- Water conservation practices are needed now, not only in times of water shortages
- Water use **should** be reported
- Aquifer characteristics should be determined



South Carolina Water Plan - 2004

- 1998-2002 Historic drought of record
- Rapid increase in population of Atlanta and Charlotte
- Focused on the need to manage water availability for future generations
- Regulate surface and groundwater withdrawals
- Evaluate existing water quality regulations and programs



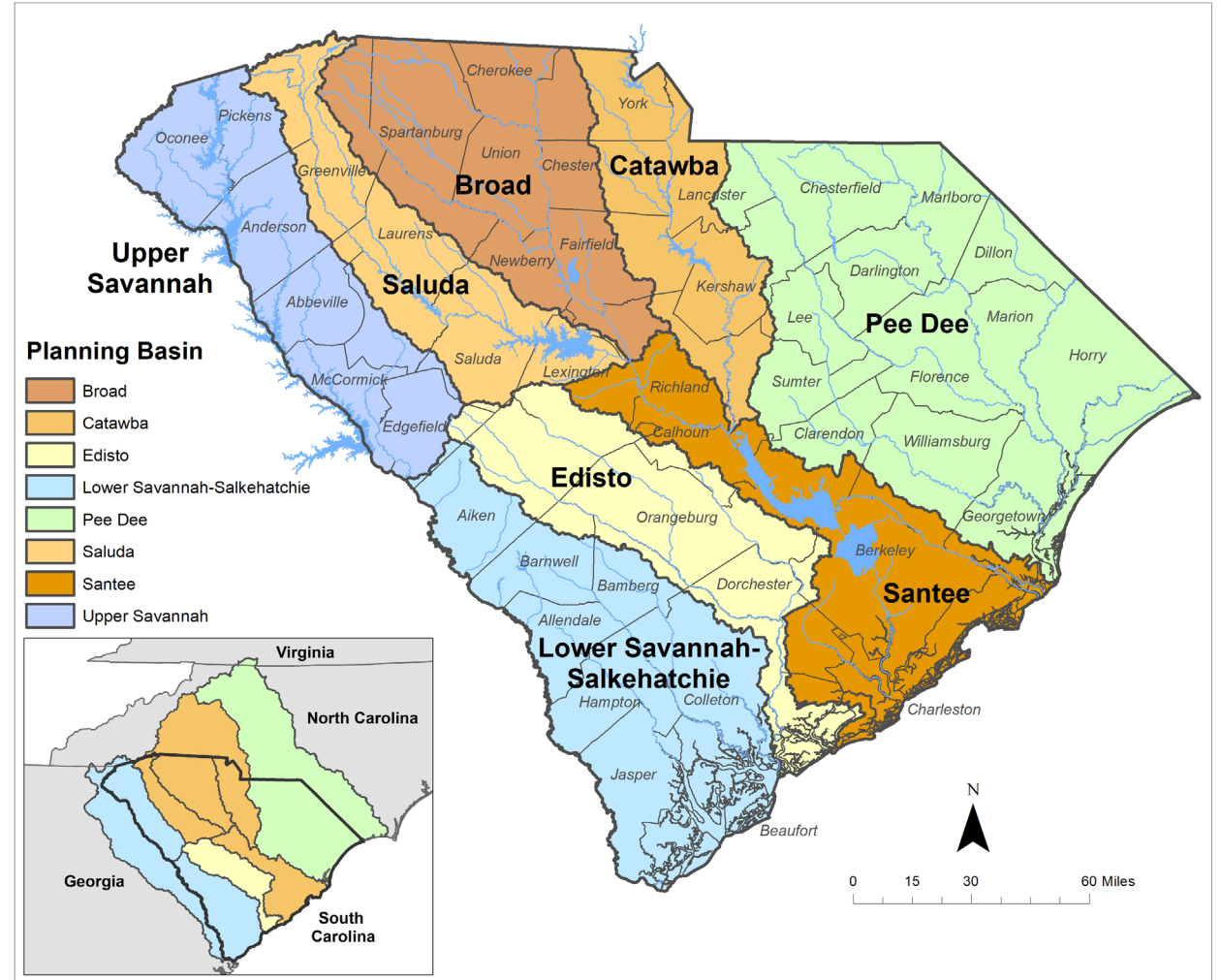
2004 Water Plan Recommendations



- **The State should work to establish a River Basin Advisory Committee for each of its four River Basins**
 - To effectively manage the State's water resources, a comprehensive and accurate monitoring of water use is needed
 - To protect aquifer systems and ensure the long-term sustainability of groundwater resources, the entire coastal plain province should be designated as a Capacity Use Area
 - A comprehensive groundwater flow model of the coastal plain should be developed and used to predict the effects of future pumping
 - Potentiometric maps of each aquifer should be constructed at least every 5 years to identify areas where over pumping is occurring

Eight River Basins

- River Basin Plans are being implemented for the State's eight major river basins
- Plans are using a "bottom-up" approach where stakeholders in each basin lead the development of their basin plan
- Collectively, the River Basin Plans will be incorporated into the State Water Plan



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Water Use Reporting 2012 - 2022

Total Reported Use 2022 by Type Use (No Power)

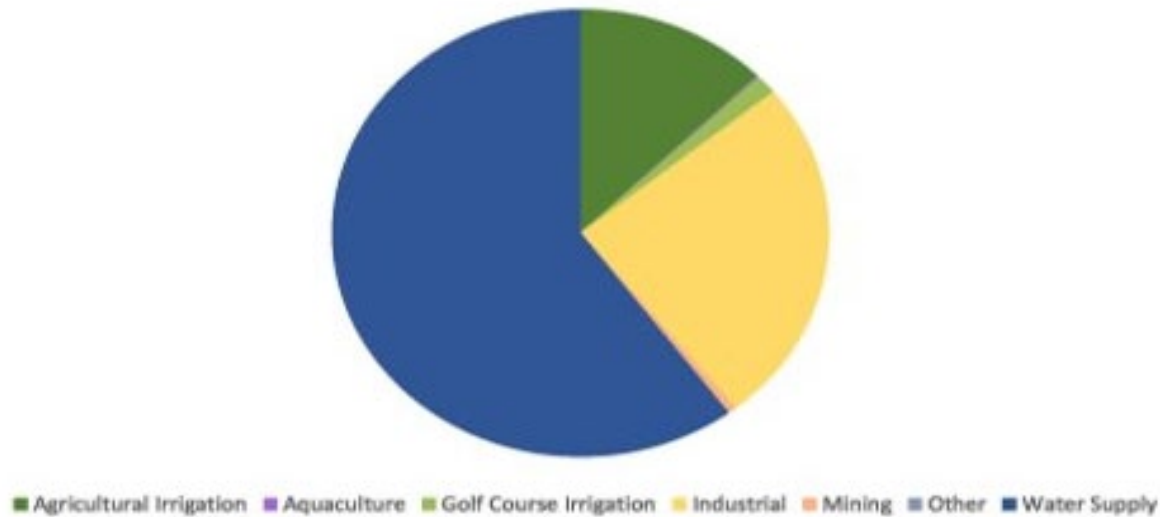


Figure 10: Total Reported Use in 2022 by Type Use (No Power Production)

Total Reported Water Use 2012-2022 (No Power)

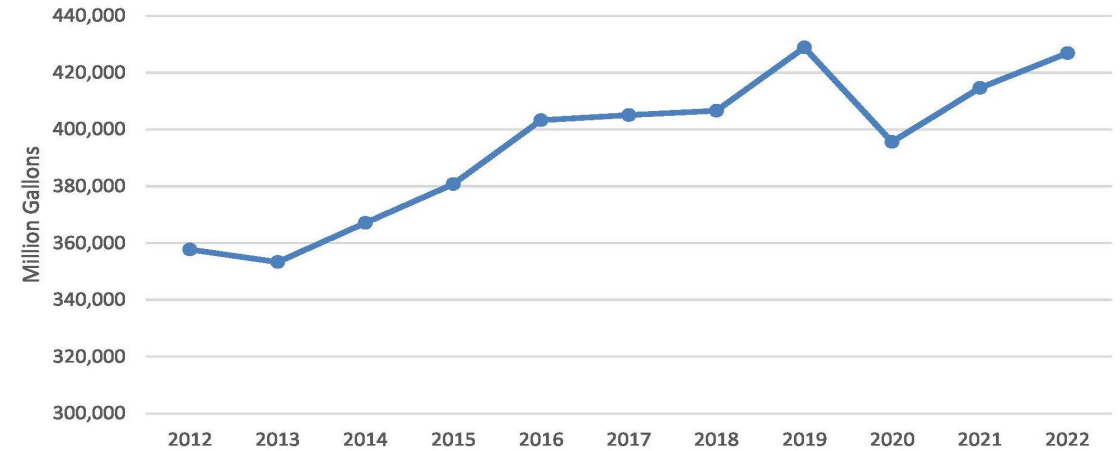


Figure 9: Total Reported Water Use from 2012-2022 (No Power Production)

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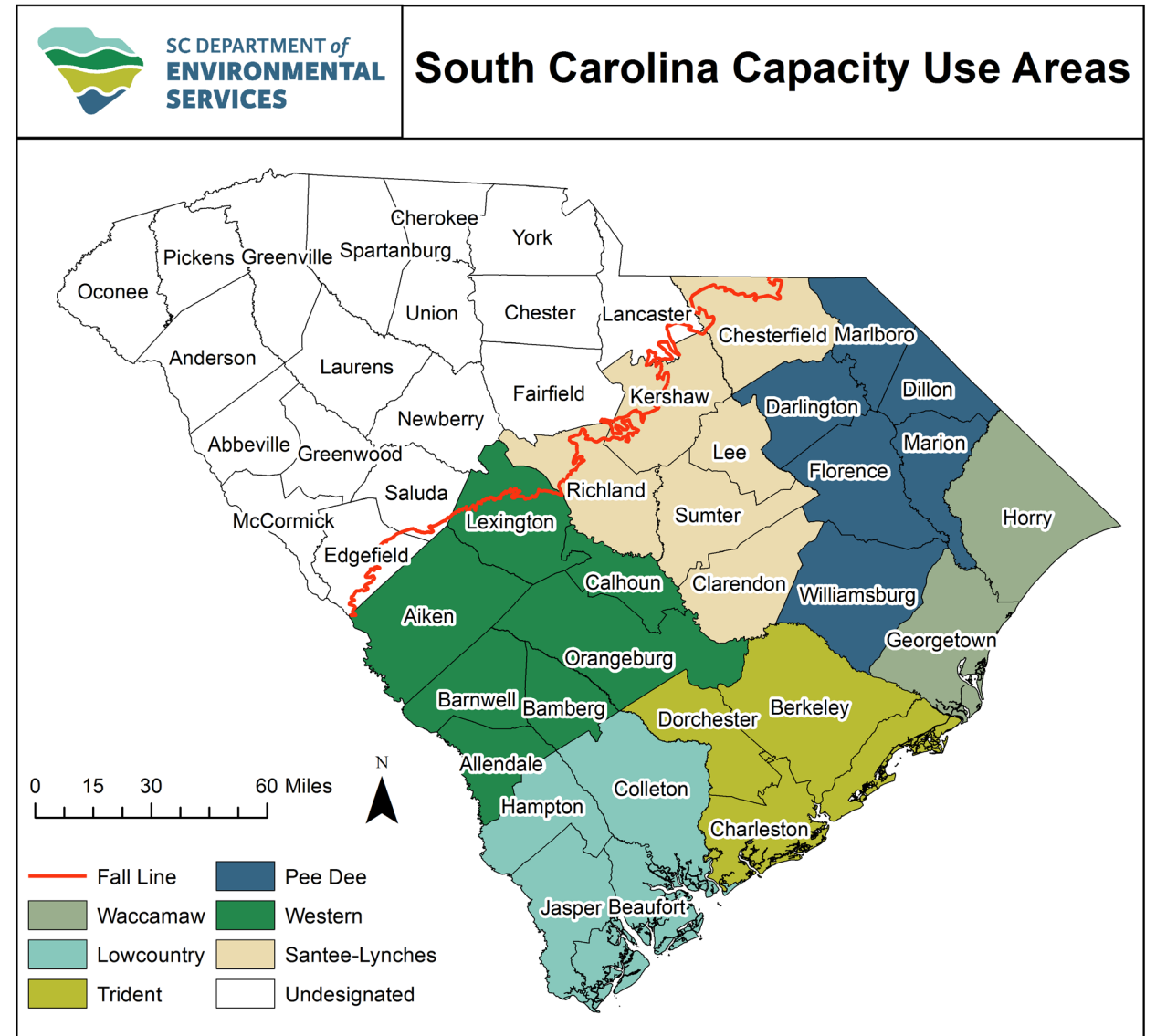
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Six Coastal Plain Capacity Use Areas

- Capacity Use Areas manage groundwater withdrawals to protect and sustain the resource
- Initial groundwater management plans formed with stakeholders
- 5-year evaluations to determine changes in groundwater conditions and resource management needs



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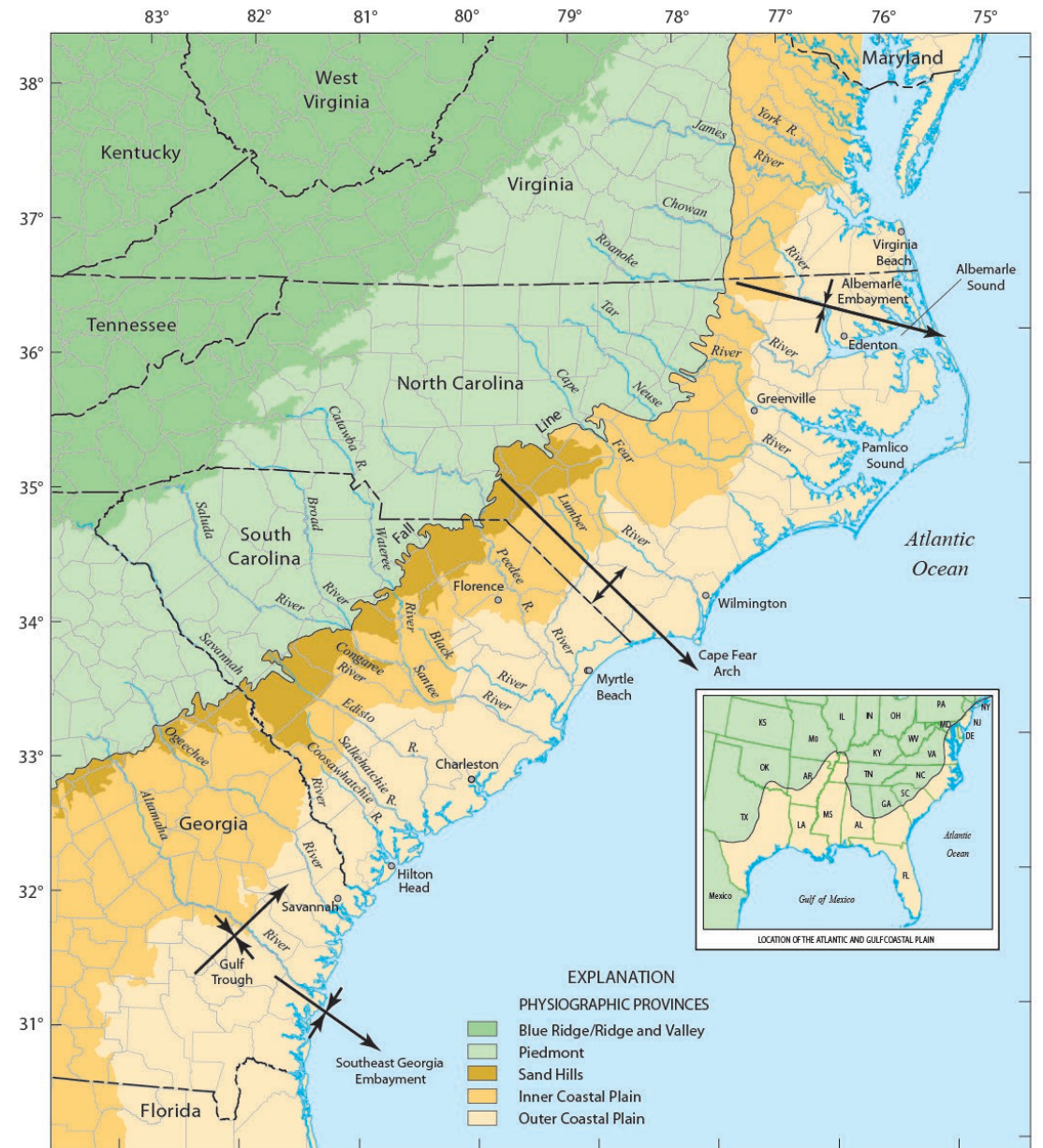
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- **A comprehensive groundwater flow model of the coastal plain should be developed and used to predict the effects of future pumping**
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Coastal Plain Groundwater Flow Model

- Forecasts impacts of groundwater pumping
- Simulates groundwater management scenarios
- Informs recommendations by identifying areas of stress
- Periodically updated as new data is available



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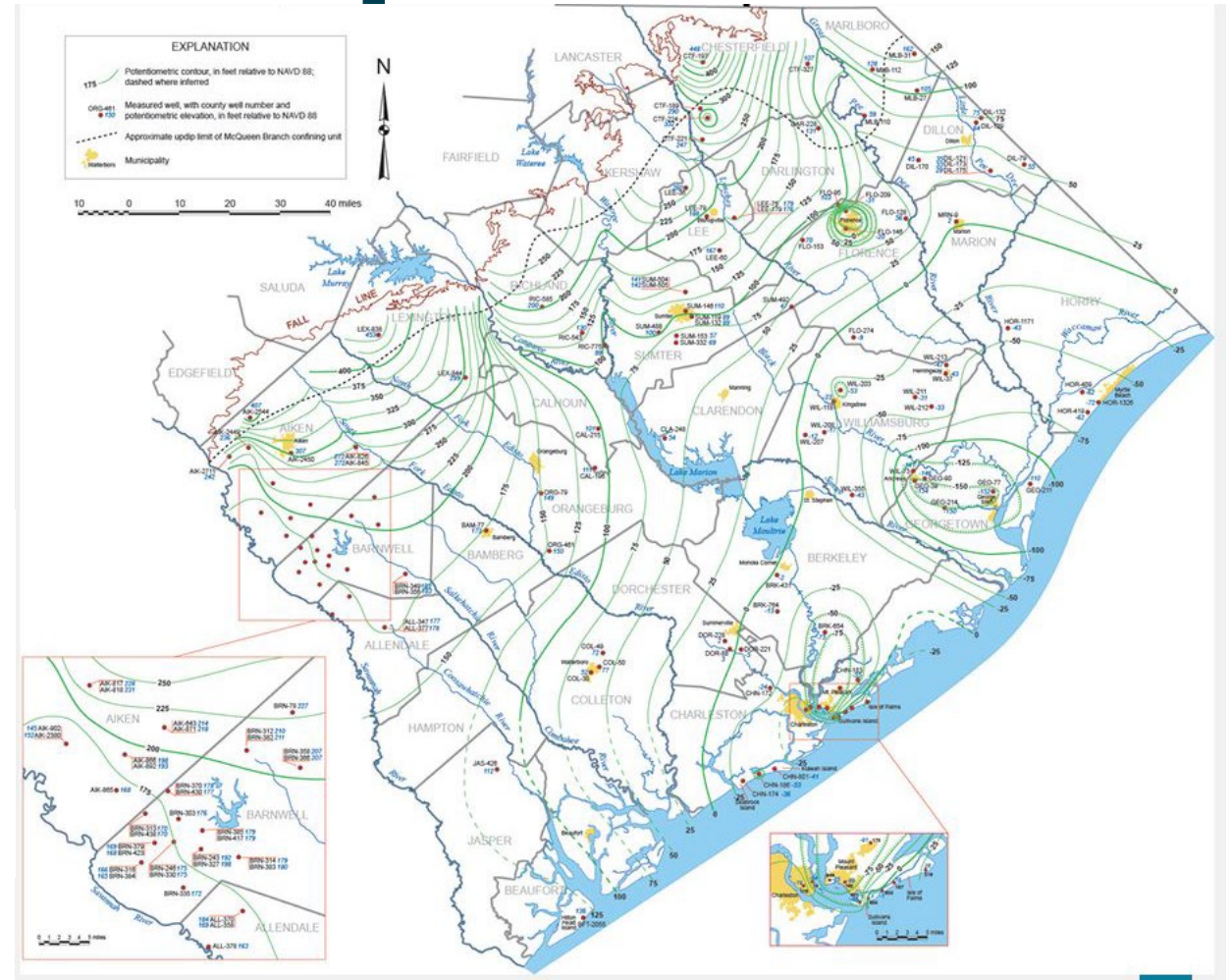
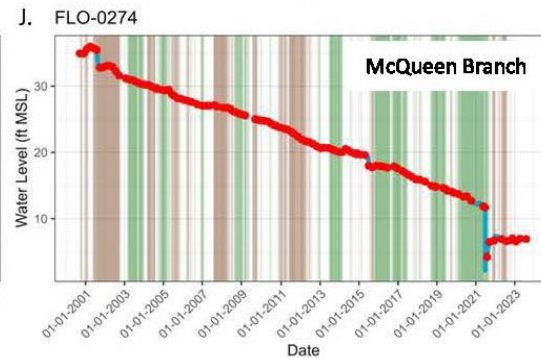
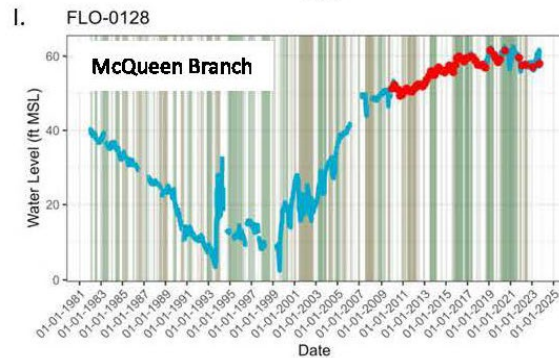
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Major Aquifer Potentiometric Surface Maps

- Used to track groundwater trends and conditions
- Helps to identify areas where further management is needed





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How WaterSC Will Work



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The Charge for WaterSC

Executive Order No. 2024-22

- Balance the State's *economic, environmental, and social needs*;
- Ensure the *reliability, resiliency, sustainability, and sufficiency* of the State's water resources *for all existing and future uses*, while simultaneously *protecting the environment*; and
- Support and facilitate additional *collaboration* with ongoing efforts and existing initiatives.



The Charge for WaterSC

Executive Order No. 2024-22

Stakeholder Engagement Plan
October 31, 2024

Report to Surface Water Study Committee
January 31, 2025

Advise on updated State Water Plan
December 31, 2025

The WaterSC Working Group

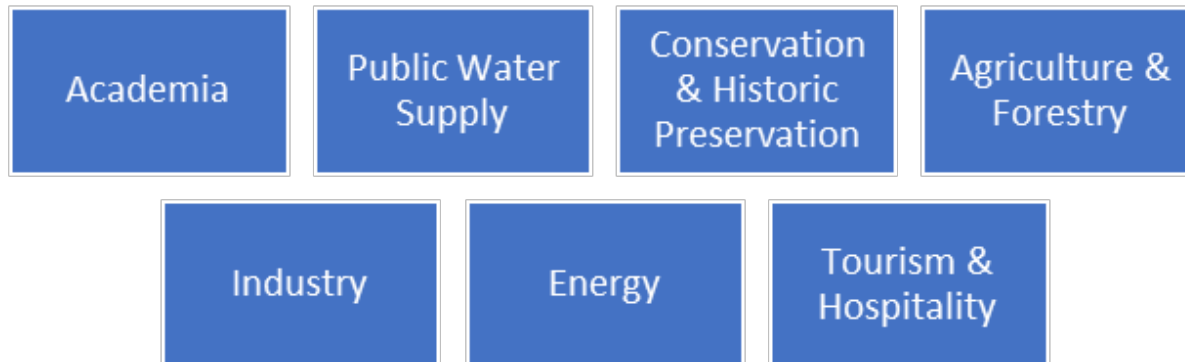
- Have a statewide resource-focused approach
- Remain committed to the process
- Serve as a voice and connection for stakeholder sectors and categories
- Provide transparency
- Be collaborative and solution-focused



Tiers of Engagement

 Working Group

Stakeholder Forums



Statewide
Listening
Sessions

Organizations & River
Basin Councils

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