

# waterSC

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SC DEPARTMENT of  
**ENVIRONMENTAL  
SERVICES**



**SOUTH CAROLINA** DEPT. OF  
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# The Charge for WaterSC

## Executive Order No. 2024-22

Stakeholder Engagement Plan

October 31, 2024

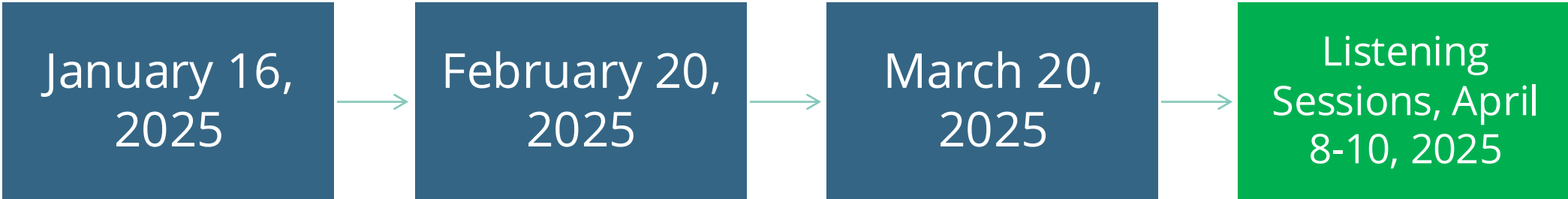
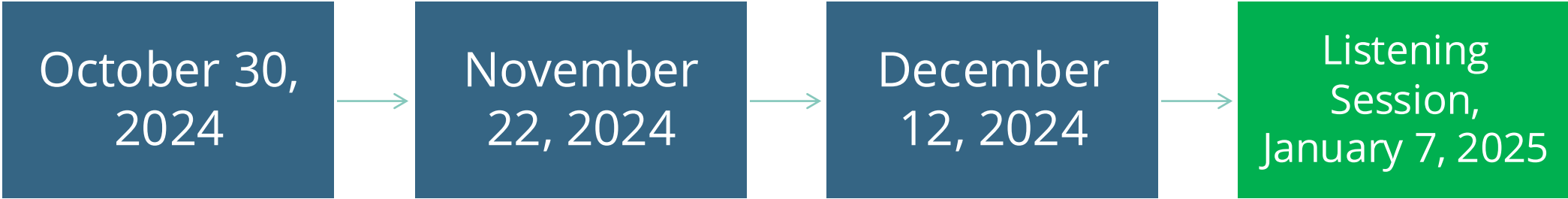
Report to Surface Water Study Committee

January 31, 2025

Advise on updated State Water Plan

December 31, 2025

# Working Group Meetings



**Today's  
Focus: The  
State of  
Surface  
Water**

Time	Agenda
1:00 pm	Welcome & Leading the Charge for WaterSC
1:10 pm	State of Surface Water in SC: Stakeholder Focus
1:40 pm	River Basin Councils' Recommendations and Themes
1:50 pm	SC Surface Water Law in Context
2:05 pm	Water SC State Agency Focus: DNR Drought Monitoring and Response in SC
2:20 pm	Break
2:30 pm	State of Surface Water in SC: Case Studies & Tabletop Discussions
3:50 pm	Accomplishments & Next Steps
4:00 pm	Adjourn & Networking

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# Status of River Basin Councils' Recommendations and Themes

John Boyer, PE, BCEE, PMP

CDM Smith

December 12, 2024

# Policy, Legislative, and Regulatory Recommendations

River Basin Councils have been developing recommendations that include:

- Modifications to existing state or local laws, regulations, or ordinances
- New state or local laws, regulations, or ordinances
- Ideas for recurring funding for water planning work
- Restructuring existing groups or agencies

*Saluda RBC*



*Edisto RBC*



*Broad RBC*



# Status of Recommendations

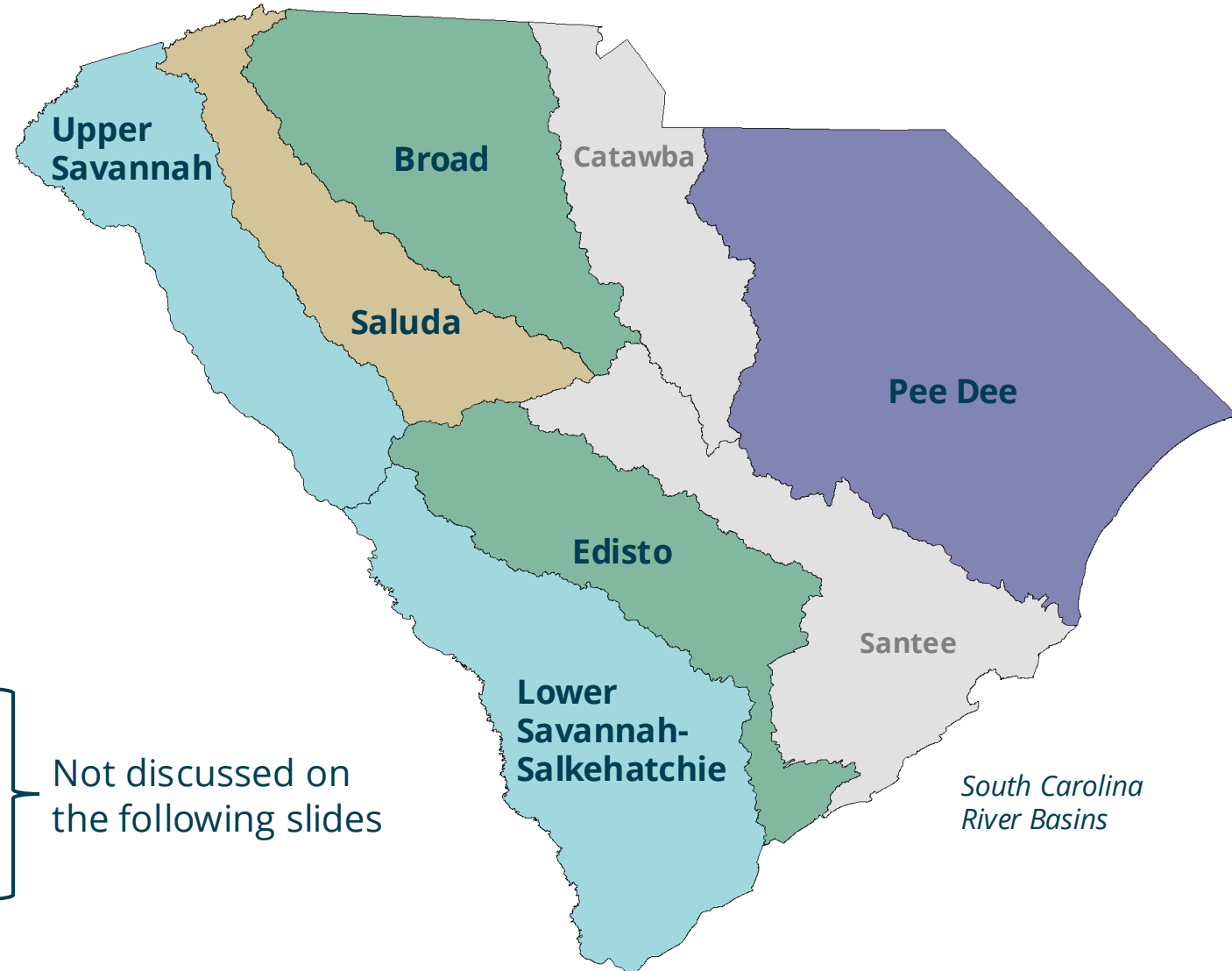
**Documented in Final Plan:**  
Edisto and Broad

**Documented in Draft Plan:**  
Pee Dee

**Developed, but not yet documented in Draft Plan:**  
Upper Savannah and Lower Savannah-Salkehatchie

**Under Development:** Saluda

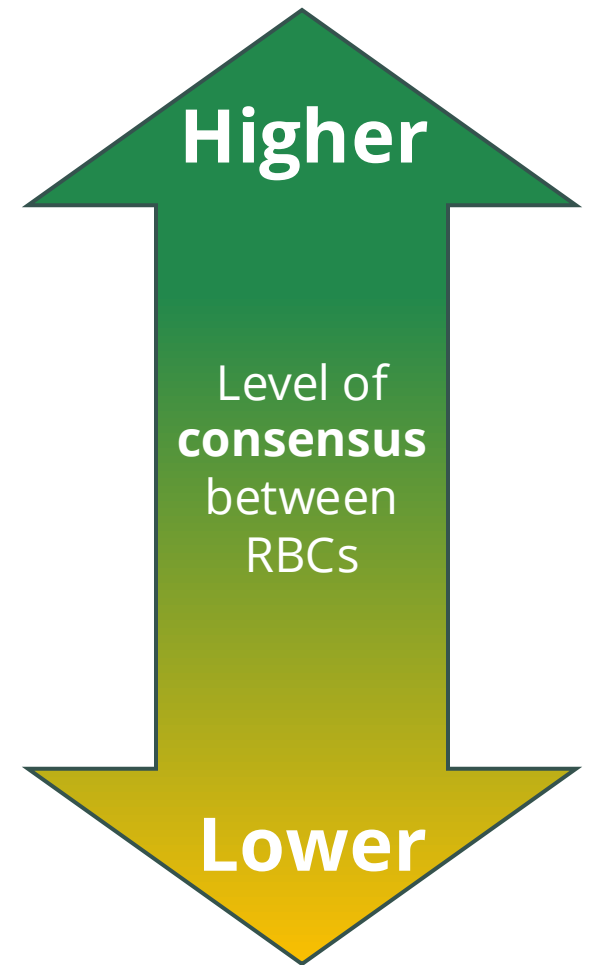
**Not Started:** Santee and Catawba





# Common Topics Considered by the RBCs\*

1. “Reasonable use” requirement for surface water
2. Improvements to allow for effective management of water resources
3. Planning, implementation, and funding
4. Permits / registrations
5. Permitting alignment with River Basin or State Water Plans



*\* Not all topics were considered by every RBC when developing recommendations.*

# 1. “Reasonable Use” Requirement for Surface Water

## RBCs’ Recommendation

- The South Carolina Surface Water Withdrawal, Permitting, Use, and Reporting Act should allow for **reasonable use criteria** to be applied to all surface water withdrawals, like those that currently exist for groundwater withdrawals\*.

*\* The Upper Savannah RBC’s recommendation was revised to apply to all “new” surface water withdrawals*

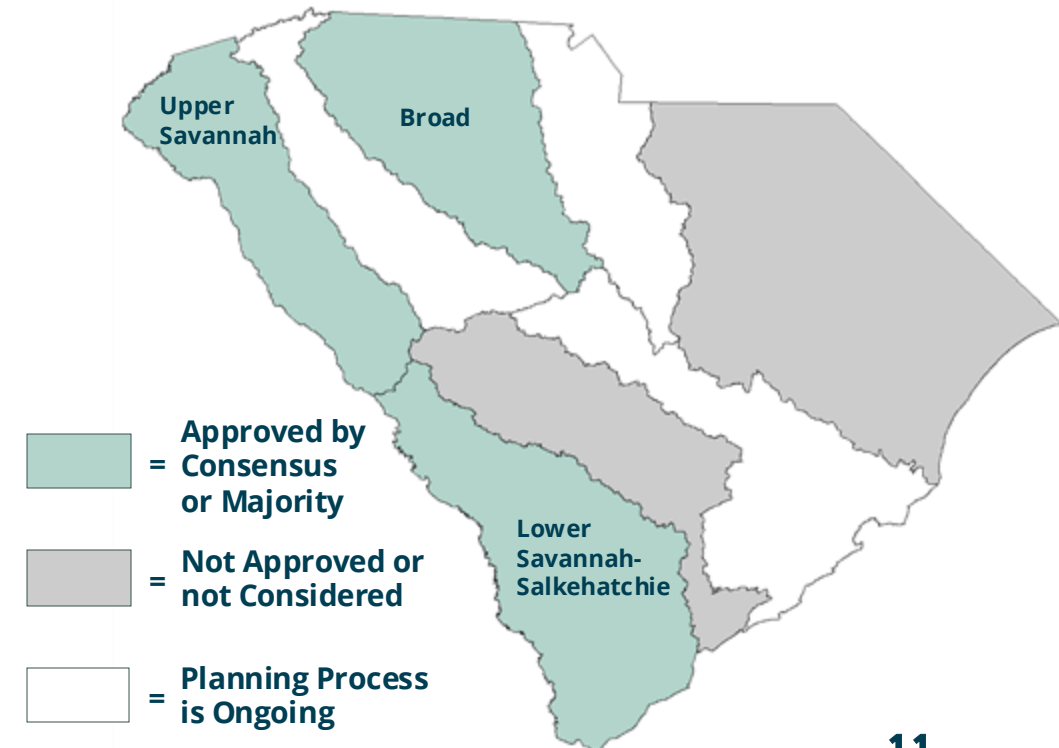


# 2. Improvements to Allow for Effective Management of Water Resources

## RBCs' Recommendation

- Improve the current laws that allow for regulation of water use so that they are **enforceable and effective**. The current water law, which **grandfathers** most water users, needs to be improved to support effective management of the state's water resources.\*

\* *The Lower Savannah-Salkehatchie RBC's recommendation reads "...effective and enforceable..."*



# Other Policy, Legislative, and Regulatory Topics Discussed by the RBCs

- Safe Yield and Minimum Instream Flows
- Improving local ordinances including riparian buffer ordinances
- Establishing and funding interstate water planning groups
- Supporting and funding statewide water education programs

*Lower Savannah-Salkehatchie RBC*



*Pee Dee RBC*



*Upper Savannah and  
and Lower Savannah-Salkehatchie RBC*



# Common RBC Drought Response Recommendations

- Water utilities should review and update their drought management plan and response ordinance every 5 years, or more frequently if conditions change.
- Water utilities should coordinate with neighboring utilities to have consistent response actions and messaging.
- Water utilities should consider drought surcharges
- Fund and establish a mesoscale network of weather and climate monitoring stations



**Buffalo Creek at Lake Thurmond during 2008 drought**

*Photo courtesy Harry Shelley*



# Questions?

John Boyer, PE, BCEE, PMP  
CDM Smith



An aerial photograph of a river meandering through a dense, green forest. The river is the central focus, with its banks covered in thick trees. The lighting suggests a bright day, with some reflections on the water's surface.

# **South Carolina Surface Water Law in Context**

**Josh Eagle**  
**Solomon Blatt Professor of Law**

**University of South Carolina**  
**Joseph F. Rice School of Law**

An aerial photograph of a wide river winding through a dense, lush green forest. The river is the central focus, with its blue-green water reflecting the sky. The surrounding forest is thick and extends to the horizon. The text "A Brief Overview of Water Law and Policy" is overlaid in the center of the image in a bold, yellow font.

# **A Brief Overview of Water Law and Policy**



# Three goals of water law and policy:

1. Ensure **base flow** for navigation, recreation, aesthetics, and ecological health.
2. Provide for **household needs**.
3. Annually **allocate** the remaining supply among competing users, such as agriculture and industry.

# Lawmakers must account for uncertainty:

An aerial photograph of a river meandering through a rural landscape. The river is dark blue and flows from the upper left towards the lower right. The surrounding land is a mix of vibrant green agricultural fields, some brownish-tan fields, and a dense forest of tall, thin trees in the foreground. The sky is a clear, bright blue with a few wispy clouds. The overall scene is peaceful and scenic.

## Supply:

- **Precipitation levels**
- **Return flow**
- **Pollution levels**
- **Effectiveness of conservation measures**
- **Interstate deliveries**

## Demand:

- **Population growth**
- **Instream needs**
- **Groundwater availability**
- **New and more valuable uses**

# Flexibility v. certainty

**Adjustments to withdrawal amounts** are necessary when supplies are low or when there are changes on the demand side.

- Who makes the decision to adjust?
- Should cuts be across-the-board or targeted?

The prospect of future adjustments makes **business planning more difficult.**

- Should we provide some certainty while retaining flexibility?

An aerial photograph of a wide river winding through a dense, lush green forest. The river is the central focus, with its surface reflecting the sky. The surrounding land is covered in thick trees, creating a rich green canopy. The perspective is from a high angle, looking down at the river as it flows through the landscape.

# **A Brief History of South Carolina Surface Water Law**

An aerial photograph of a large, historic estate. A wide river flows through the landscape on the left side. In the center, there is a large, multi-story building with a complex roofline, surrounded by manicured lawns and gardens. The background shows rolling green hills and dense forests. The text is overlaid on a semi-transparent dark rectangle.

## **Pre-1840s: “Natural Flow Riparianism”**

- **Riparian entitled to receive natural flow.**
- **Protected existing investment.**
- **Locked in existing uses.**
- **Established domestic use as top priority.**



**Mid-1800s to the present:  
“Reasonable Use Riparianism”**

- **Enhances efficiency** by allowing courts to reallocate water to new uses and to reduce waste.
- **Less protection for existing investment.**
- **Creates some uncertainty for users.**



**Defendant**

**Plaintiff**



# Approaches to balancing flexibility with certainty

- **Western prior appropriation**
- **Regulated riparianism**, for example, the **South Carolina Surface Water Withdrawal Act**



## How is *regulated riparianism* different?

**State agency** makes initial reasonableness determination. Common law actions are still possible.

Uses **permits** to set terms of use.

Permits give owner the “right” to take a certain **amount** for a certain **time period**.



**How is the *SC SWWA* different from other states' approach to regulated riparianism?**

**It is very **difficult or impossible** for DES or courts **to adjust** the terms of grandfathered permits and registrations.**

**The **balance** is heavily tilted toward certainty and away from flexibility.**

# **A lot of uncertainty:**

## **Supply:**

- **Precipitation levels**
- **Return flow**
- **Pollution levels**
- **Effectiveness of conservation measures**
- **Interstate deliveries**

## **Demand:**

- **Population growth**
- **Instream needs**
- **Groundwater availability**
- **New and more valuable uses**

# Upside of Flexibility in Water Law and Policy

- Can accommodate **unexpected future changes in flows.**
- Allows **new water uses** into the system; critical for **economic development.**
- Safeguards the **public interest** in drinking water and recreational uses.
- Allocate necessary **cuts fairly and efficiently.**

# Drought Monitoring & Response in South Carolina

WaterSC to Meet Dec. 12, 2024



**Hope Mizzell , Ph.D.**  
**South Carolina State Climatologist**  
**Department of Natural Resources**



# SC State Climatology Office Team



Hope Mizzell  
South Carolina  
State Climatologist



Melissa Griffin  
Assistant State  
Climatologist



Frank Strait  
Severe Weather  
Liaison

Vacant  
Water Resource  
Climatologist

# Climate Office Responsibilities

1

---

Coordinate and collect weather observations for the purpose of climate monitoring

2

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Summarize and disseminate weather and climate information

3

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Perform climate and weather impact assessments

4

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Demonstrate the value of climate information in the decision-making process

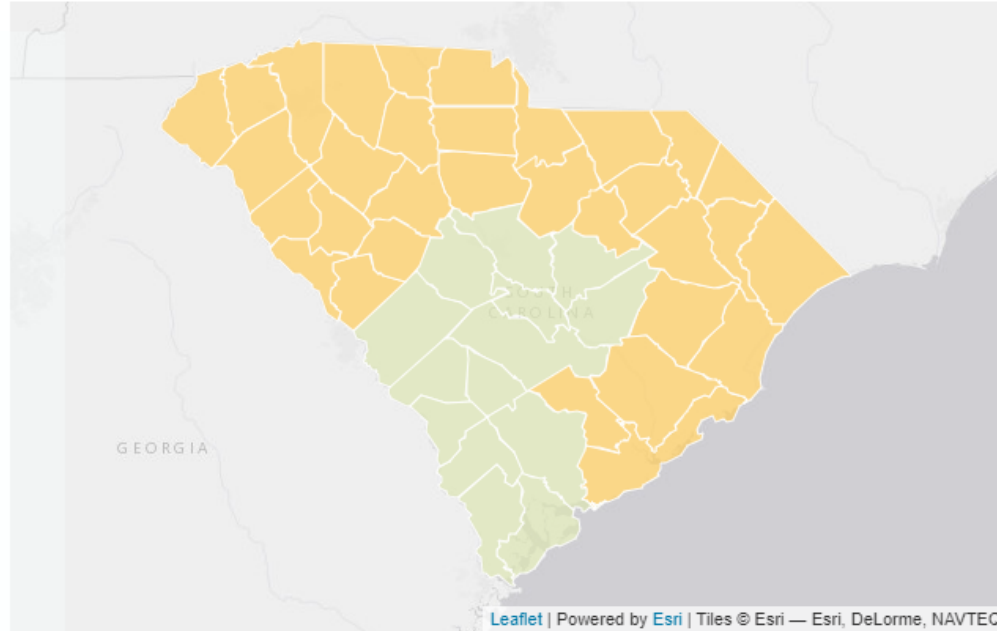
5

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Conduct applied climate research



# Drought in South Carolina



## Current Status

Normal		14
Incipient		32
Moderate		0
Severe		0
Extreme		0

Number of Counties in Each Category

Latest Drought Committee Meeting: 12-04-2024

[Drought Conditions >>>](#) Find out more about current drought conditions, how drought status is determined in South Carolina, and view archived drought condition reports.

<http://www.scdrought.com>

# Drought Monitoring and Response

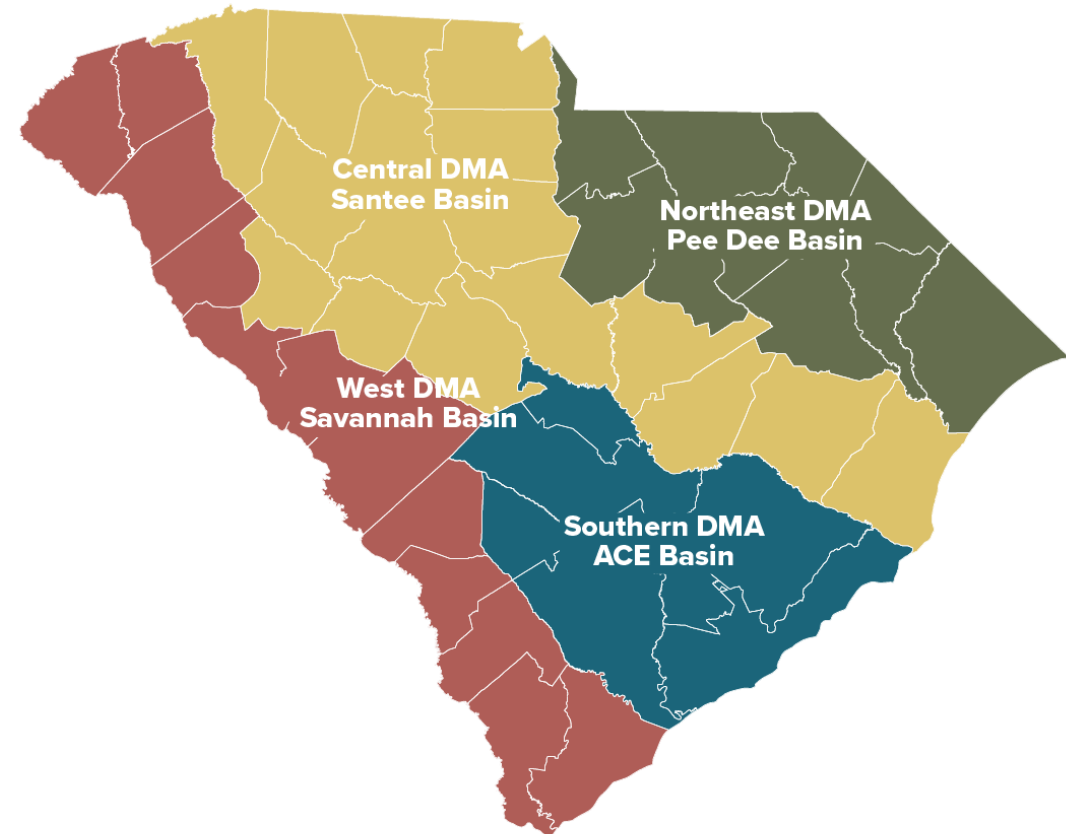


# Drought Monitoring and Response in SC

## South Carolina Drought Response

**Program** consists of legislation, regulations, and procedures that establish recommended and required response.

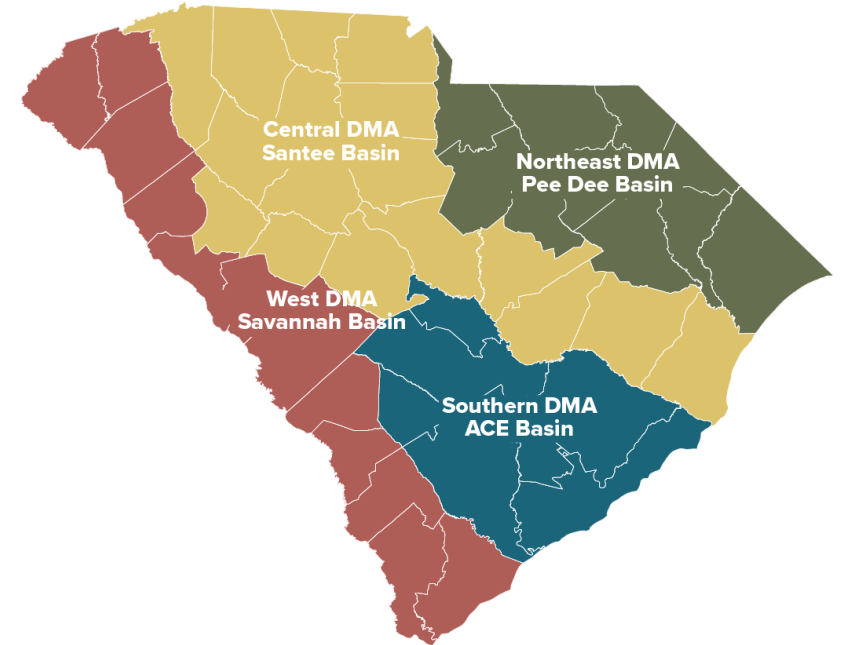
The **South Carolina Drought Response Act (2000)** and the **supporting regulations** formally establish and describe the responsibilities of the South Carolina State Climatology Office and the South Carolina Drought Response Committee, the major drought decision-making entities in the State.



# Drought Monitoring and Response in SC

**Why:** To carefully and closely monitor, conserve, and manage the State's water resources in the best interest of all South Carolinians.

**Who:** Drought Response Committee and Department of Natural Resources – State Climatology Office



## Statewide members

- Forestry Commission
- Department of Agriculture
- Emergency Management Division
- Department of Environmental Services
- Department of Natural Resources

## Local members (12 per DMA)

- Agricultural
- Industry
- Water Utilities
- Regional Council of Governments
- Power Generation Facilities
- Soil and Water Conservation Districts

# Local Drought Response Committee

## West Savannah

## Group

## Central Santee

Reg Williams

Edgefield

**Agriculture**

John Irwin

Laurens

Cheryl Daniels

McCormick

**Comm of Public Works**

Ken Tuck

Spartanburg

Mark Warner

McCormick

**Counties**

Peggy Swearingen

Fairfield

Eric Carrier

Aiken

**Domestic User**

Christy Jones

Richland

David Evans

Pickens

**Industry**

Ed Holder

Greenville

Lynn McEwen

Barnwell

**Municipalities**

James Bagley

York

Preston Pierce

Oconee

**Power Generation**

Alan Stuart

York

Scott Willett

Anderson

**Private Water Supplier**

Brad Powers

Spartanburg

Chris Rasco

Anderson

**Public Service District**

Vacant

Rick Green

Edgefield

**Reg. Council of Government**

Gregory Sprouse

Richland

Yvonne Kling

Aiken

**Soil and Water Conservation**

John Rivers

Sumter

Brian Chemsak

Beaufort

**Special Purpose District**

Fred Castles

Chester














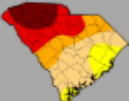
# Local Drought Response Committee

Southern ACE		Group	Northeast Pee Dee	
Landrum Weathers	Orangeburg	<b>Agriculture</b>	Caleb Miller	Dillon
Jason Thompson	Charleston	<b>Comm of Public Works</b>	Vacant	
Vacant		<b>Counties</b>	Alan Watkins	Lee
Chris Wallace	Bamberg	<b>Domestic User</b>	Karolan Ohanesian	Horry
Vacant		<b>Industry</b>	Athena Strickland	Marlboro
Eric Odom	Orangeburg	<b>Municipalities</b>	Clint Elliot	Horry
Matthew McCants	Berkeley	<b>Power Generation</b>	Vacant	
Vacant		<b>Private Water Supplier</b>	Vacant	
Russell Cornette	Berkely	<b>Public Service District</b>	Elbert Warren	Darlington
Ronald Mitchum	Charleston	<b>Reg. Council of Government</b>	Lindsay Privette	Florence
Marion Rizer	Colleton	<b>Soil and Water Conservation</b>	Joe Ghent	Lancaster
Vacant		<b>Special Purpose District</b>	Nathan Ward	Kershaw



# Drought Monitoring and Response in SC

**How:** The State uses multiple indicators and indices to monitor drought and determine drought severity levels.

Percent of Normal Rainfall		<ul style="list-style-type: none"><li>• Cumulative dryness or wetness compared to long-term averages</li></ul>
Crop Moisture Index (CMI)		<ul style="list-style-type: none"><li>• Agricultural growing season short-term (up to 4 weeks) dryness or wetness</li></ul>
Palmer Drought Severity Index (PDSI)		<ul style="list-style-type: none"><li>• Prolonged (month, years) abnormally dry or wet conditions</li></ul>
 Water Resources	   	<ul style="list-style-type: none"><li>• Streamflow levels</li><li>• Lake levels</li><li>• Groundwater levels</li></ul>
Keetch-Byram Drought Index (KBDI)		<ul style="list-style-type: none"><li>• Daily forest fire potential</li></ul>
U.S. Drought Monitor for South Carolina		<ul style="list-style-type: none"><li>• General areas of drought, labeled by intensity on a weekly basis</li></ul>

# Conditions and Response

## SC Drought Response Act and Regulations

### Incipient

- Drier than normal
- Soil moisture declines
- Water demand increases

### Moderate

- Water levels decrease
- Crops and plants wither
- Irrigation increases

### Severe

- Water levels continue to drop
- Number of wildfires increases
- Poor grazing and agricultural conditions

### Extreme


- Widespread impacts to agriculture, forestry, water utilities, and water-dependent businesses

- SCDNR, SCO and DRC monitor conditions, share information, and make recommendations to manage drought.
- State and federal agencies, water utilities, and reservoir managers monitor conditions.

Water utilities review drought plans and ordinances.

- Water utilities implement drought plans and ordinances.
- DRC may recommend voluntary or mandatory water conservation.

*As drought conditions and impacts become more severe, response actions increase accordingly.*



- State agencies increase monitoring and communications.
- Citizens may see local notices for burn bans, boat ramp closings, and water use restrictions.
- The Governor may:
  - request voluntary or mandatory water conservation.
  - assist with managing impacts, including requesting disaster declarations by the US Dept. of Agriculture and activating the National Guard to assist with wildfire suppression.

## State Emergency Operations Plan



- Water systems and citizens are without, or losing access to water.
- Public safety, health, and welfare are threatened.
- The State Emergency Response Team (SERT) is activated to lead state-level response to the drought emergency.

**APPENDIX 10**  
**(SOUTH CAROLINA DROUGHT RESPONSE PLAN)**  
**TO THE SOUTH CAROLINA EMERGENCY OPERATIONS PLAN**

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**I. INTRODUCTION**

- A. A drought is a slowly developing disaster that may occur over several months or years. Impacts from drought may occur quickly for some sectors while for others it may take years to have an impact.
- B. A drought event can have a major impact on the State economy, and will affect everything from agriculture to industry to individuals.
- C. Droughts are naturally recurring events in South Carolina. The length and severity has varied greatly over the last 25 years. The worst recorded drought, from 1999 to 2002, was one of the longest and most severe in more than 100 years. The 2007-2008 drought was shorter in duration than the 1999-2002 drought, but it had a stronger intensity, especially for the Upstate region. Parts of the State experienced severe drought again in 2011-2012 and 2016-2017.

**II. PURPOSE**

- A. Establishes policies and procedures for the State and Counties when responding to a drought situation.
- B. Identifies follow-on State-level actions to assist with and provide relief from severe or extreme drought conditions that have reached a level of disaster beyond the scope of the South Carolina Drought Response Committee.
- C. Provides statewide planning and response strategies that allow State and County Emergency Management officials to effectively and efficiently plan and coordinate the application of local, State, and Federal resources in response to a severe or extreme drought event to prevent loss of life, minimize damage, lessen the economic impact, and protect the environment.

**III. ASSUMPTIONS**

- A. Not all areas of the State will be affected the same way at the same time during a drought. Therefore, different types of drought response operations may be occurring simultaneously in the State.
- B. State actions in response to "Severe" or "Extreme" drought conditions may be identical as individual communities may be in both conditions in varying degrees.
- C. The State Drought Response Plan may be in effect at the same time other measures are being implemented by the SC Drought Response Committee and local water systems.

Identifies follow-on State-level actions to assist with and provide relief from severe or extreme drought conditions that have reached a level of disaster beyond the scope of South Carolina Drought Response Committee.

# Components of South Carolina Drought Response Program

Incipient

Moderate

Severe

Extreme

SC Drought Response Act and Regulations

**SC Department of Natural Resources**

Chairs DRC & provides support

Coordinates response

Reviews variance requests

Mediates disputes

Administrative Law Judge hears appeals within 5 days

**SC Drought Response Committee (state and local members)**

Consults with stakeholders

Issues Drought Declarations

Determine nonessential water use during severe and extreme droughts

Issue nonessential water curtailment declaration

**Public Water Suppliers**

Water Systems implement drought response ordinances or plans based on local triggers and conditions

**Reservoir Managers**

Follow dam operations and reservoir management plans

Health & safety threatened, recommend actions to Governor

Governor may declare drought emergency and issue water curtailment regulations

Emergency Management Division and State Emergency Response Team are activated



# Drought Planning Guide: A Resource for Water Suppliers in the Palmetto State



Dr. Elliot Wickham

SC State Climatology Office

SC Department of Natural Resources

# SC Drought and Water Shortage Tabletop Exercise September 2017 and 2019 – SC Emergency Operations Center



Attendees  
-----  
Organizations



Next Tabletop Exercise : March 5, 2025



**SCEMD**



# Drought Monitoring and Response

## Keystone Drought Events in South Carolina



Prepared by  
 South Carolina State Climatology Office  
 Land, Water, and Conservation Division  
 South Carolina Department of Natural Resources



1925 was the most intense drought year on record (at the time) and is currently the fifth driest year on record, with a rainfall deficiency of 11.16 inches. The average annual rainfall for 1925 was 36.73 inches, 3.22 inches lower than the previous record from 1911. Every state sector was impacted — agriculture struggled, hydroelectric power was limited, and these limits affected the textile mills and other industries. With over half of the state's workers in the agriculture sector, nearly 16 percent of farms in South Carolina were abandoned, and a quarter-million people left the state for better opportunities elsewhere. Rainfall remained below normal through 1927, although 1925 was the year of the most severe drought. SC Department of Agriculture called 1925 the most severe drought experienced in forty years. Rainfall across the region was below average for the next couple of years. The cotton crop failure hit South Carolina hard since over half of the state's workers worked in agriculture, and they almost exclusively worked in cotton. Streamflow values were reported to be at a record low, considerably reducing power generation and forcing slowdowns and mill closures.

### DROUGHT OF 1925 – 1927



Source: Lange, Dorothea, photographer. Oldest son of sharecropper family working in the cotton. Chesnee, South Carolina. Library of Congress, Prints & Photographs Division, FSA/OWI Collection, LC-DIG-fsa-8b32095.

### Drought Causing Many Fish to Die in Sumter County

**(Special to The Record)**  
**SUMTER, S. C., Sept. 7.**—Because of the low water in Black river swamp in Sumter county fish are dying by the thousands. The main stream in Black River swamp near the Plowden's mill road is still flowing, but all the rest of the streams that usually flow are dry.

**(Special to The Record)**  
**SUMTER, S. C., Sept. 7.**—Woods fires are still reported as burning in the Black River section of the county. The fires have been raging for more than two weeks and many hundreds of acres of fine woodland have been destroyed. All the woods are parched and burn like tinder because of the long continued drought.

Source: Charleston News and Courier

Month of 1925	Statewide Rainfall	Departure from Normal	Monthly Ranking
January	8.39"	4.70"	Wettest
February	1.72"	-2.18"	17 <sup>th</sup> Driest
March	1.55"	-2.61"	5 <sup>th</sup> Driest
April	2.18"	-1.18"	32 <sup>nd</sup> Driest
May	2.14"	-1.44"	20 <sup>th</sup> Driest
June	3.46"	-1.24"	36 <sup>th</sup> Driest
July	3.50"	-1.98"	13 <sup>th</sup> Driest
August	1.57"	-3.68"	Driest
September	1.90"	-2.28"	16 <sup>th</sup> Driest
October	2.70"	-0.38"	--
November	3.86"	1.15"	28 <sup>th</sup> Wettest
December	3.76"	0.15"	--

<https://www.dnr.sc.gov/climate/sco/Publications/SCKeystoneDroughtEvents.pdf>

# Contact Information



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Vacant , Water Resources Climatologist

Frank Strait, Severe Weather Liaison,  
[StraitF@dnr.sc.gov](mailto:StraitF@dnr.sc.gov), 803-734-0339

[dnr.sc.gov/sco](http://dnr.sc.gov/sco)

# 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



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# Surface Water Policy Challenges: Case Studies

December 12, 2024

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**These three case studies are real examples that have been evaluated.**

**In each case, the issue was not a lack of physically available surface water.**

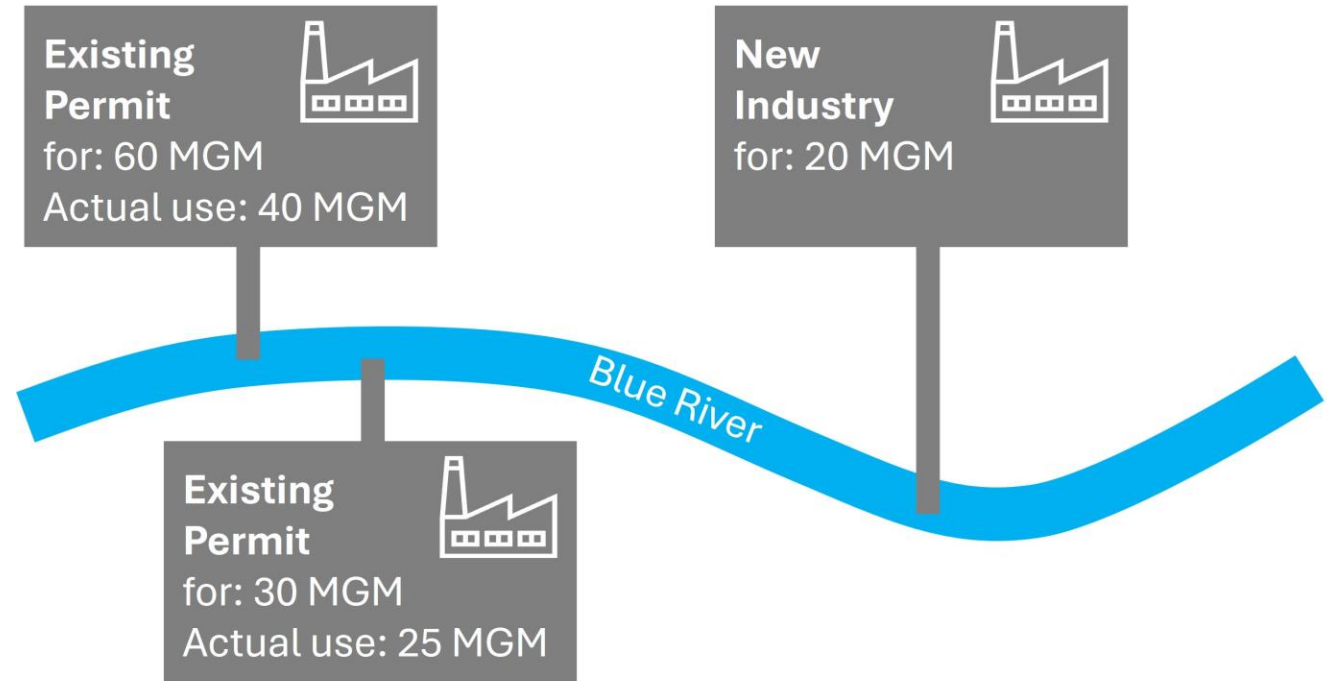
**Current policies have prevented these potential users from accessing the surface water.**

**What recommended policy changes could allow reasonable access to the surface water?**



# Case Study: Industry

- A prospective new industry wants to locate in an area where **groundwater is unavailable** for the long term
- **Surface water is** in proximity and **readily available**

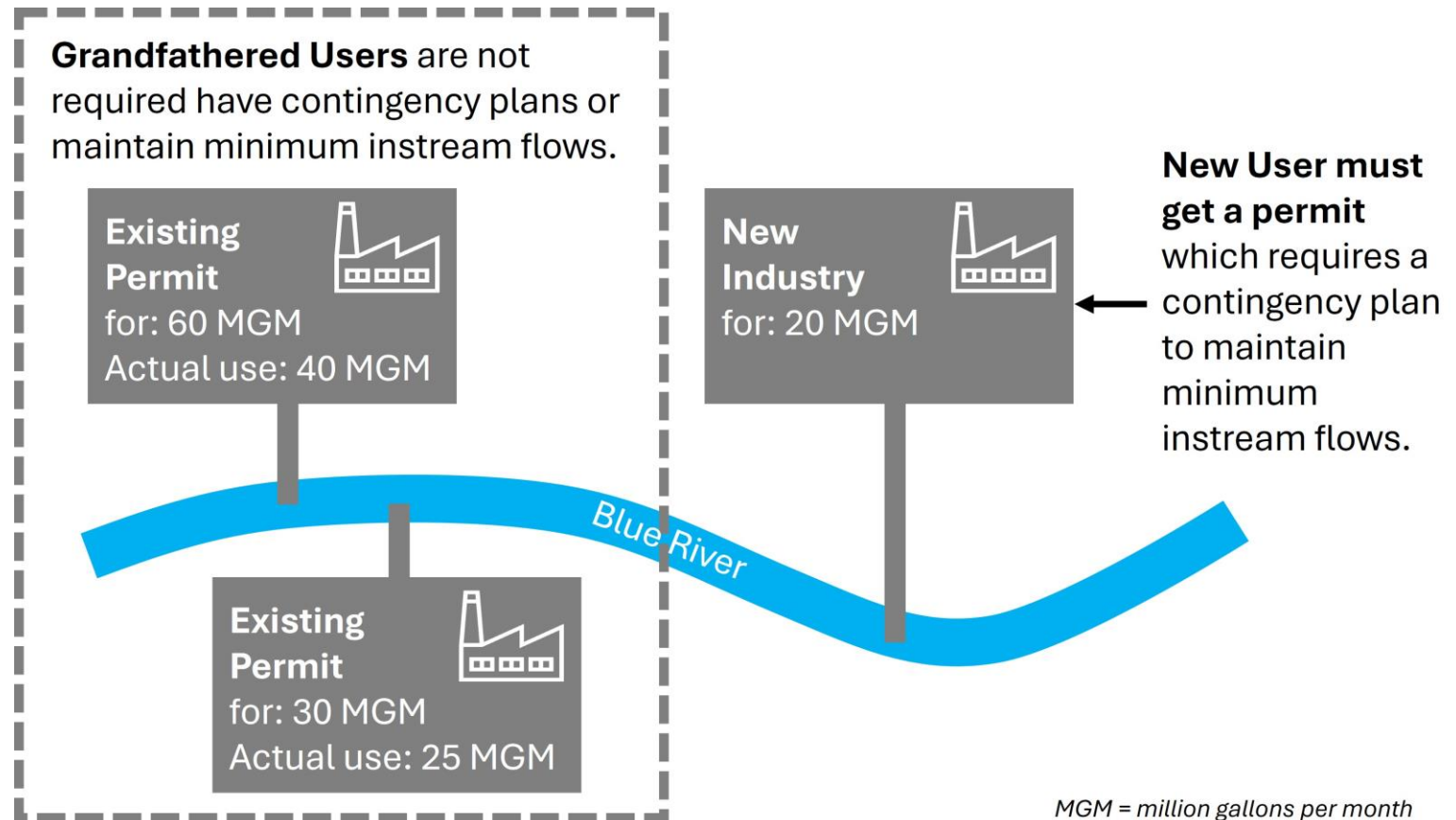


*MGM = million gallons per month*



# Case Study: Industry

- New user must get a new permit, which:
  - **Must abide by MIFs and cease withdrawals in low flows**
  - Must have a contingency plan
- **Grandfathered users** (pre-2011) are **not required to stop using in low flows**



# Case Study: Agriculture

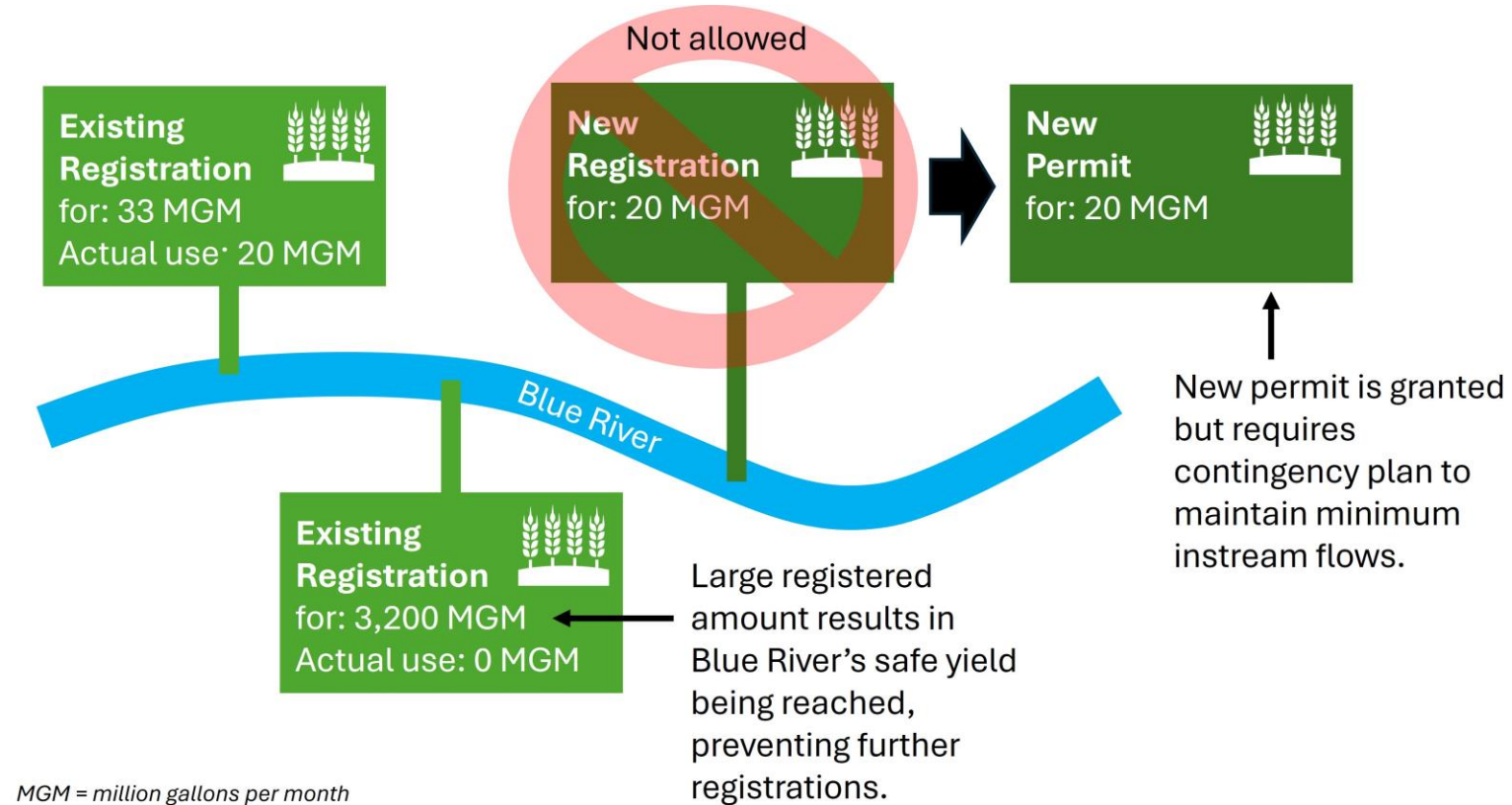
- Farmers **seeking new registrations** or increases in their registration limits **are unable** to do so in certain areas because all the safe yield has been registered



*MGM = million gallons per month*

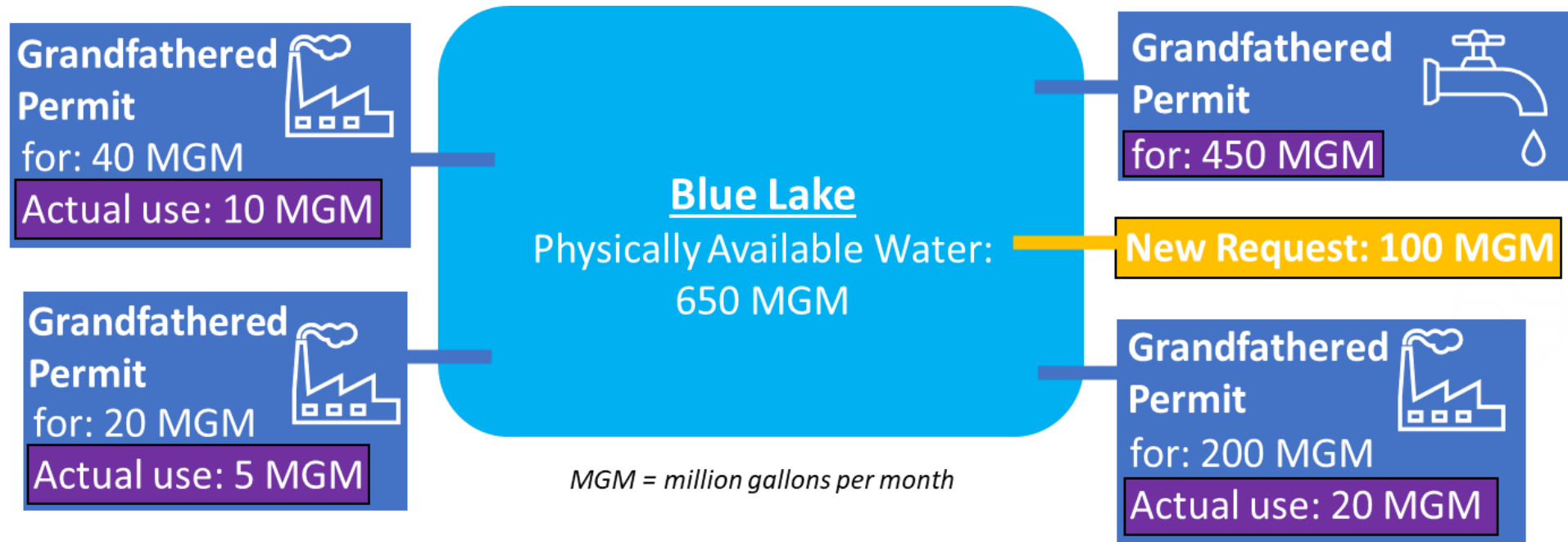
# Case Study: Agriculture

- Agricultural registrations are ***not subject to reasonable use criteria***
- If the request is within the safe yield, it is deemed registered
- Several registrations have taken the entire safe yield of river stretches
- **Now, new farmers in those areas must get permits**



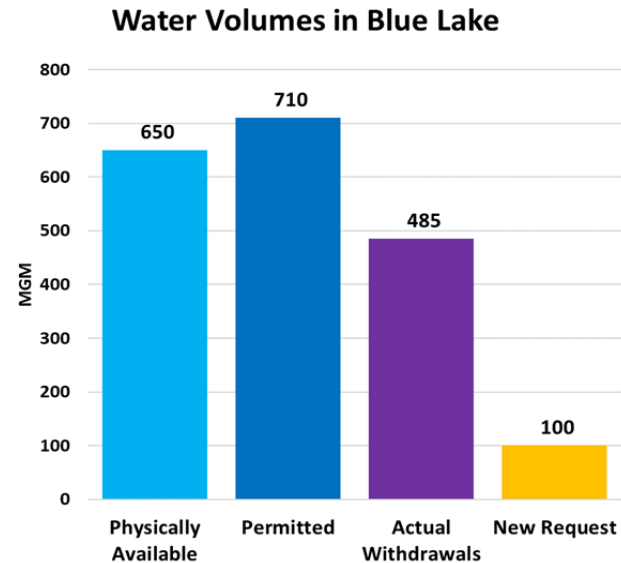
# Case Study: Water Supply

- A municipal water supply system wants to increase their water supply on a water body where grandfathered permits exist by transferring an industrial intake



# Case Study: Water Supply

- An “industrial” intake **cannot be transferred** to a “water supply” permit
- Pre-2011 permits were **grandfathered for their intake capacity, not their projected use**
- Permitted volumes exceed physically available water
- **New permit request cannot be granted, though water is available**



MGM = million gallons per month



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# Questions?

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@SouthCarolinaDES

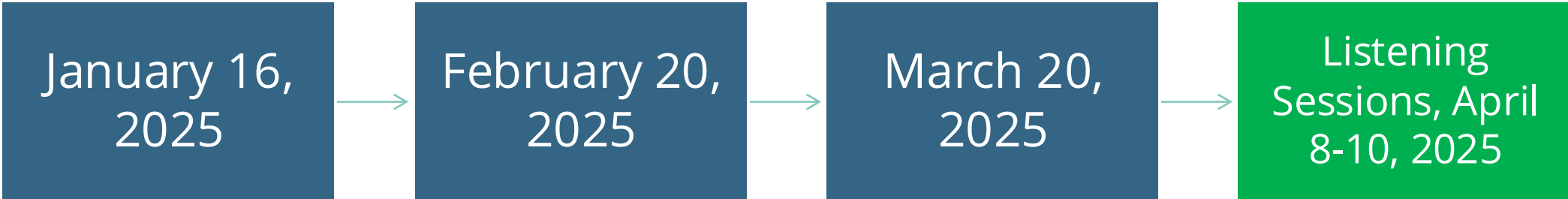
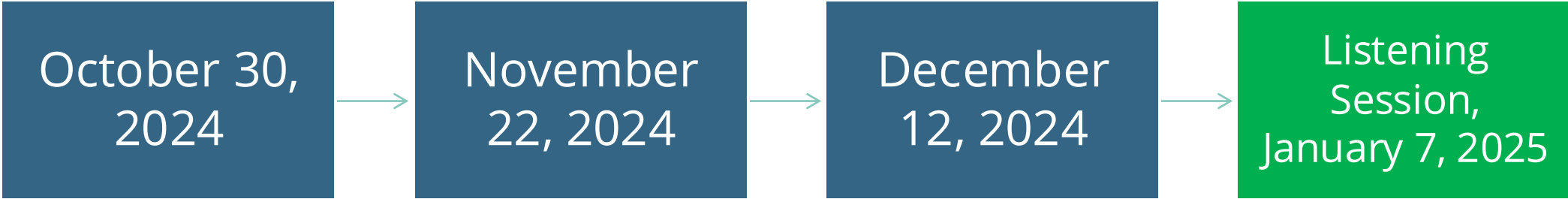


# How to Be Engaged with WaterSC

- Stay informed via the webpage [des.sc.gov/watersc](https://des.sc.gov/watersc)
  - Provide online comments
  - Livestream and meeting resources
- Attend Open House & Listening Session on January 7, 2025 to provide verbal comments
- Connect with Stakeholder Forums hosted by WaterSC members and other related groups



# Working Group Meetings





# Listening Session & Open House

Phillips Market Center at the State Farmers Market

1. Surface Water in SC
2. How is surface water used in SC?
3. How is surface water managed in SC?
4. How is surface water conserved in SC?
5. What do we know about surface water?
6. What have we learned from River Basin Councils?
7. How do we plan for the future of surface water in SC?
8. Opportunities for formal comments (beginning at 6 pm)

# 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

# Proposed Surface Water Report Outline

- I. Overview and Executive Summary
- II. State of Surface Water in SC
- III. Stakeholder Engagement on Surface Water
- IV. WaterSC Recommendations on Sustainable Surface Water Withdrawal Practices and Procedures
  - I. Consensus-based recommendations
  - II. Other areas of discussion
- V. WaterSC Next Steps
- VI. References



# waterSC

[des.sc.gov/WaterSC](https://des.sc.gov/WaterSC)



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