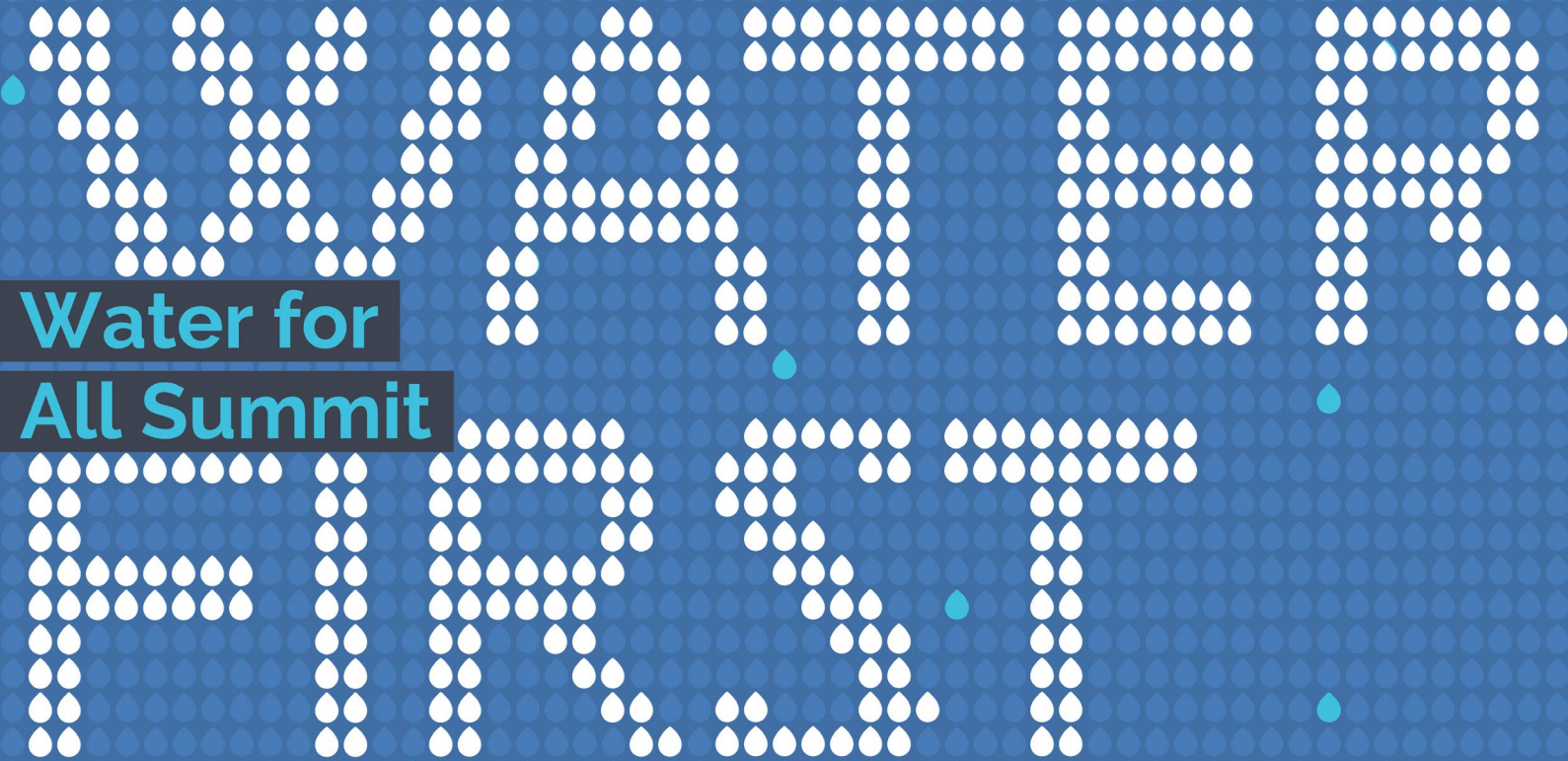


7th Annual Water for All Summit



Water for
All Summit



Year-In-Review

Jimmy Bagley, CWWMG Chair

About CWWMG

Mission

CWWMG's Mission is to identify, fund, and manage projects that will help preserve, extend, and enhance the capabilities of the Catawba-Wateree River Basin to provide water resources for human needs while maintaining the ecological integrity of the waterway.

Membership

- ◆ Catawba River Water Supply Project
 - ◆ Lancaster County Water & Sewer District (SC)
 - ◆ Union County (NC)
- ◆ Chester Metropolitan District (SC)
- ◆ City of Hickory (NC)
- ◆ City of Belmont (NC)
- ◆ City of Camden (SC)
- ◆ Charlotte Water (NC)
- ◆ City of Gastonia, Two Rivers Utilities (NC)
- ◆ City of Lenoir (NC)
- ◆ City of Morganton (NC)
- ◆ City of Mount Holly (NC)
- ◆ City of Rock Hill (SC)
- ◆ City of Statesville (NC)
- ◆ Duke Energy Carolinas, LLC
- ◆ Lincoln County (NC)
- ◆ Lugoff-Elgin Water Authority (SC)
- ◆ Town of Granite Falls (NC)
- ◆ Town of Mooresville (NC)
- ◆ Town of Valdese (NC)

Our Board



Chair
Jimmy Bagley, PE
City of Rock Hill, SC



Vice Chair
Jeff Lineberger, PE
Duke Energy
Carolinas, LLC



Secretary/Treasurer
Ron Hargrove
City of Charlotte, NC



NC At-Large Director
Allison Kraft, PE
Town of Mooresville, NC



SC At-Large Director
Brad Bucy, PE
Lancaster County Water
& Sewer District, SC

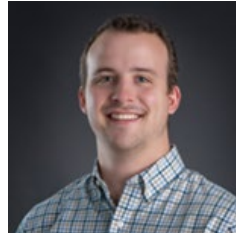
Advisory Board



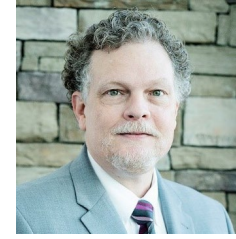
Academic/Research
Cal Sawyer



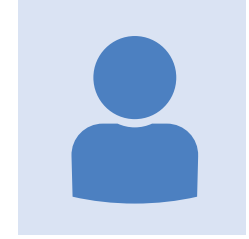
Recreation
Tim Gestwicki



Local Government
Luke Lowry



Economic Development
Robert Long



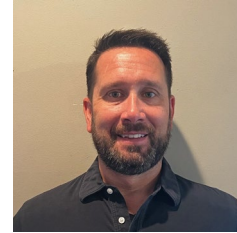
**Regulatory/State
Government**
Open



**Residential Landowner
of Project or River Frontage**
Shirley Greene



Environment
Vicki Taylor



**Industrial or
Business Interest**
Wesley Wightman



Agricultural or Forestry
Mitch Peele / Keith Larick



Our Vision

We envision a future with a sustainable water source achieved through proactive planning, cutting edge research, and water shortage preparedness.



**Integrated Water
Resources Plan**



**Research and
Technical**



**Education and
Awareness**

Integrated Water Resources Plan



Integrated Water Resources Plan



Five Year Schedule



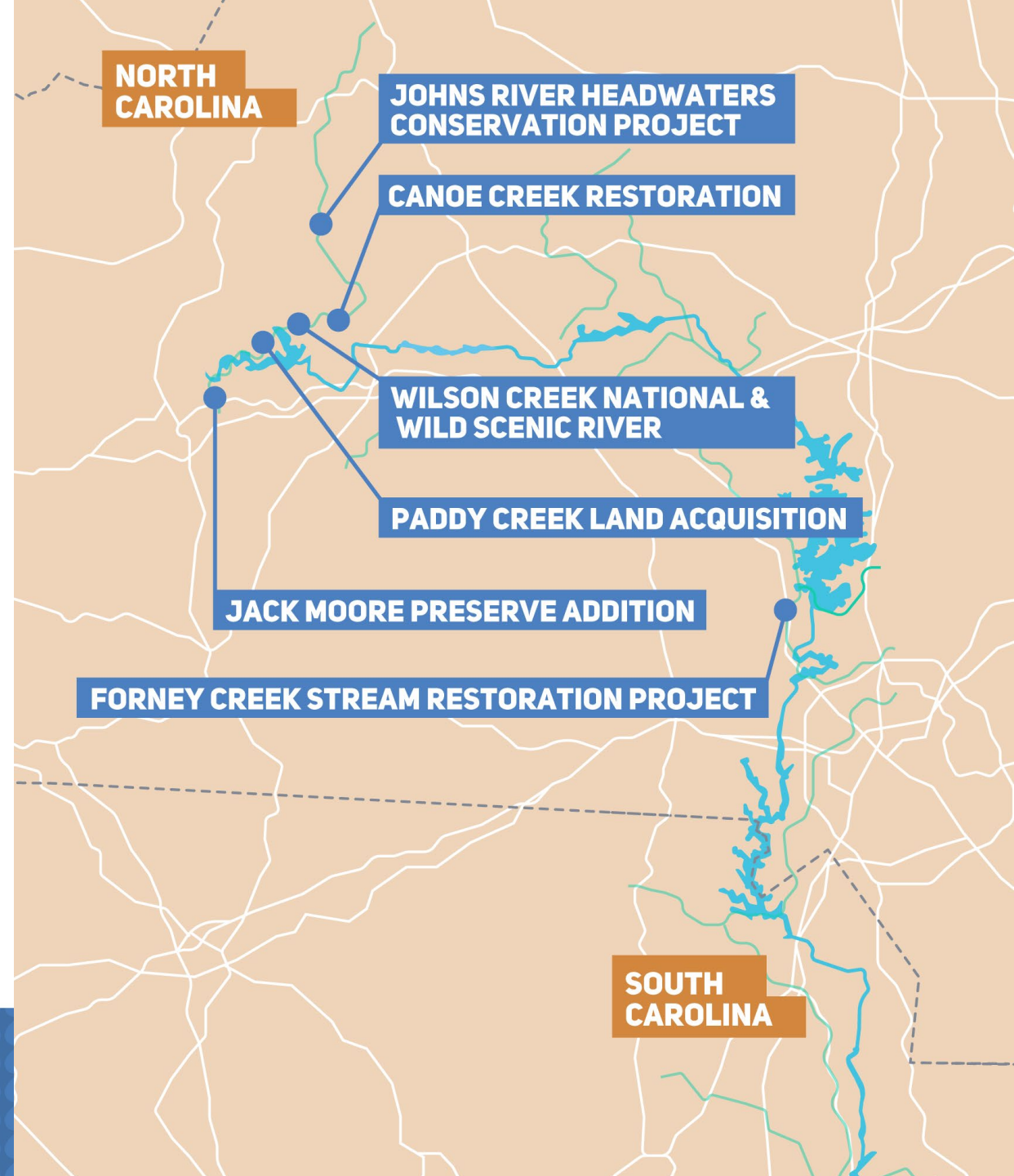
Source Water Protection Investments

In 2023

- ◆ **Johns River Headwaters Conservation Project** | Foothills Conservancy
- ◆ **Jack Moore Preserve Addition (Hoyle Creek)** | Catawba Lands Conservancy

Past Grants

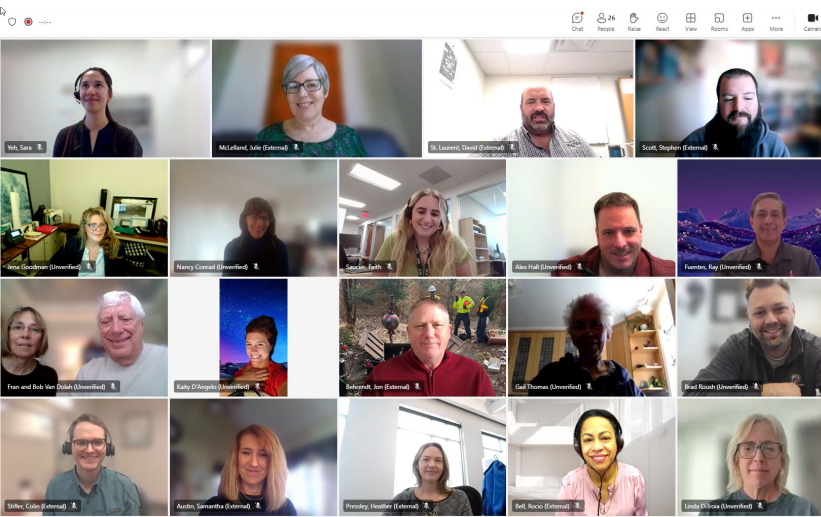
- ◆ **Forney Creek Stream Restoration Project** | Catawba Lands Conservancy
- ◆ **Paddy Creek Land Acquisition** | Foothills Conservancy
- ◆ **Canoe Creek Restoration** | Foothills Conservancy of North Carolina
- ◆ **Wilson Creek National and Wild Scenic River** | Foothills Conservancy



Organizations Eligible to Join CWWMG

- ◆ **Water utilities operating** anywhere in the Catawba-Wateree River Basin
 - Includes the South Fork and other tributaries
 - Includes private utility companies
- ◆ **Water utilities using water** from the Catawba-Wateree River Basin to serve customers in other river basins
- ◆ **Members of the Catawba-Wateree Drought Management Advisory Group including commercial entities that...**
 - Own a water intake within the Catawba-Wateree River Basin OR
 - Own a water treatment plant or distribution system within the Catawba-Wateree River Basin

2024 Citizens' Water Academy



Citizens Water Academy 2024 Graduates

Samantha Austin
Charlotte Water

Jena Goodman
Gaston County Government

Greg Nance
Catawba Riverkeeper

Laurie Sickles
Charlotte Water

Jon Behrendt
City of Charlotte

Alex Hall
Brown & Caldwell

Ethan Pardue
Duke Energy

Colin Stifler
Charlotte Water

Hayden Boyd
Resident

Terri Martin
Charlotte Water

Melissa Patton
Carolina Land and Lakes RC&D

Gail Thomas
Resident

Nancy Conrad
Resident

Megan Hinkle
Union County Water

Heather Pressley
Charlotte Water

Bob Van Dolah
Lake Norman Marine
Commission

Kaity D'Angelo
Catawba Riverkeeper

Margot Leydic-Boyd
Resident

Lynette Ramsey
Carolina Land and Lakes

Frances Van Dolah
Resident

Rob DiTroia
Resident

Robin McInnis
Resident

Stephen Scott
Charlotte Water

Linda DiTroia
Resident

Julie McLelland
Charlotte Water

David St. Laurent
Charlotte Water

State of the Basin

Jeff Lineberger, CWWMG Vice-Chair

State of the Basin

Area of Detail



Map Legend



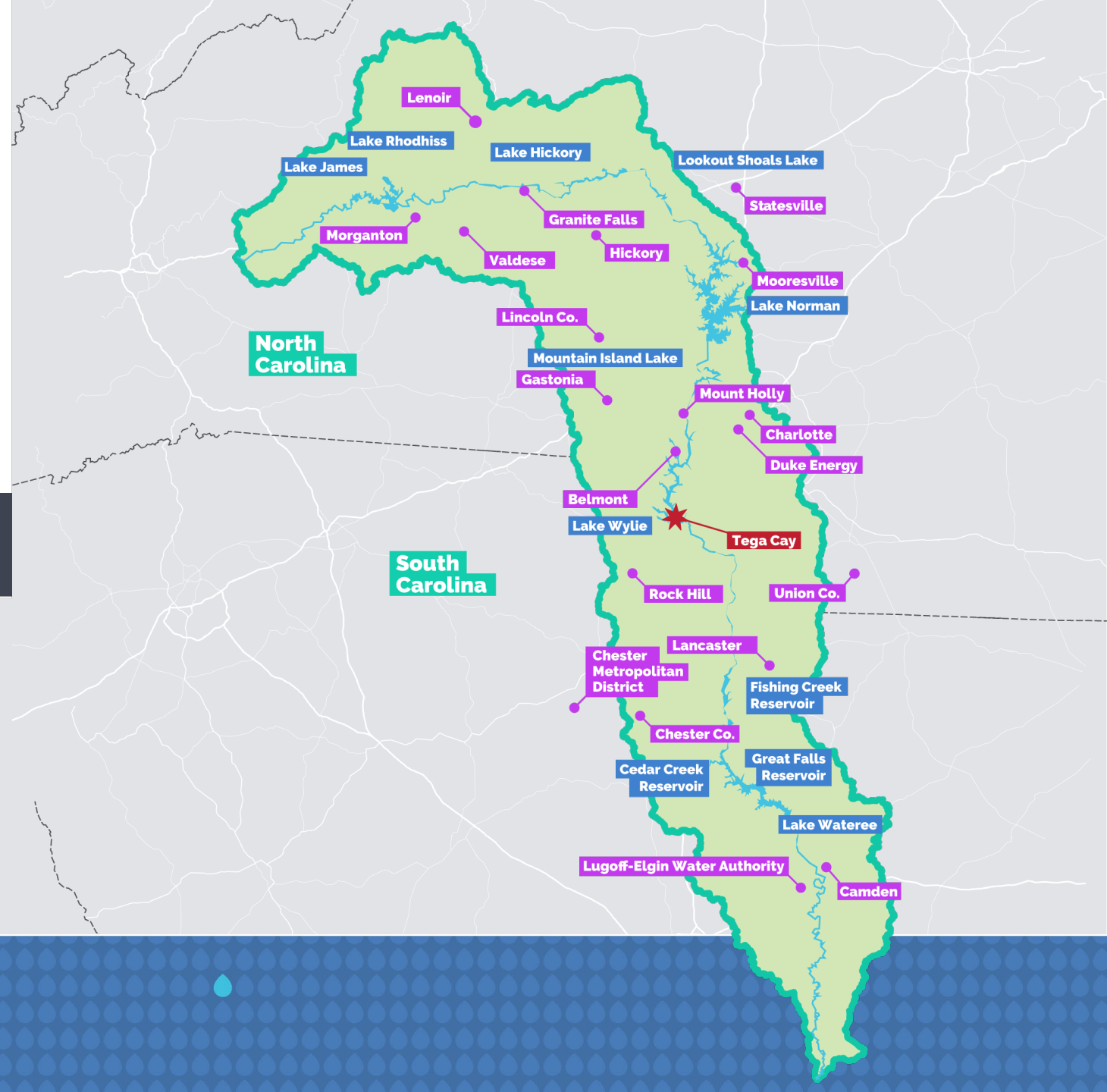
Catawba-Wateree River Basin



Main Riverine System



State Border



State of the Basin

Area of Detail



Map Legend



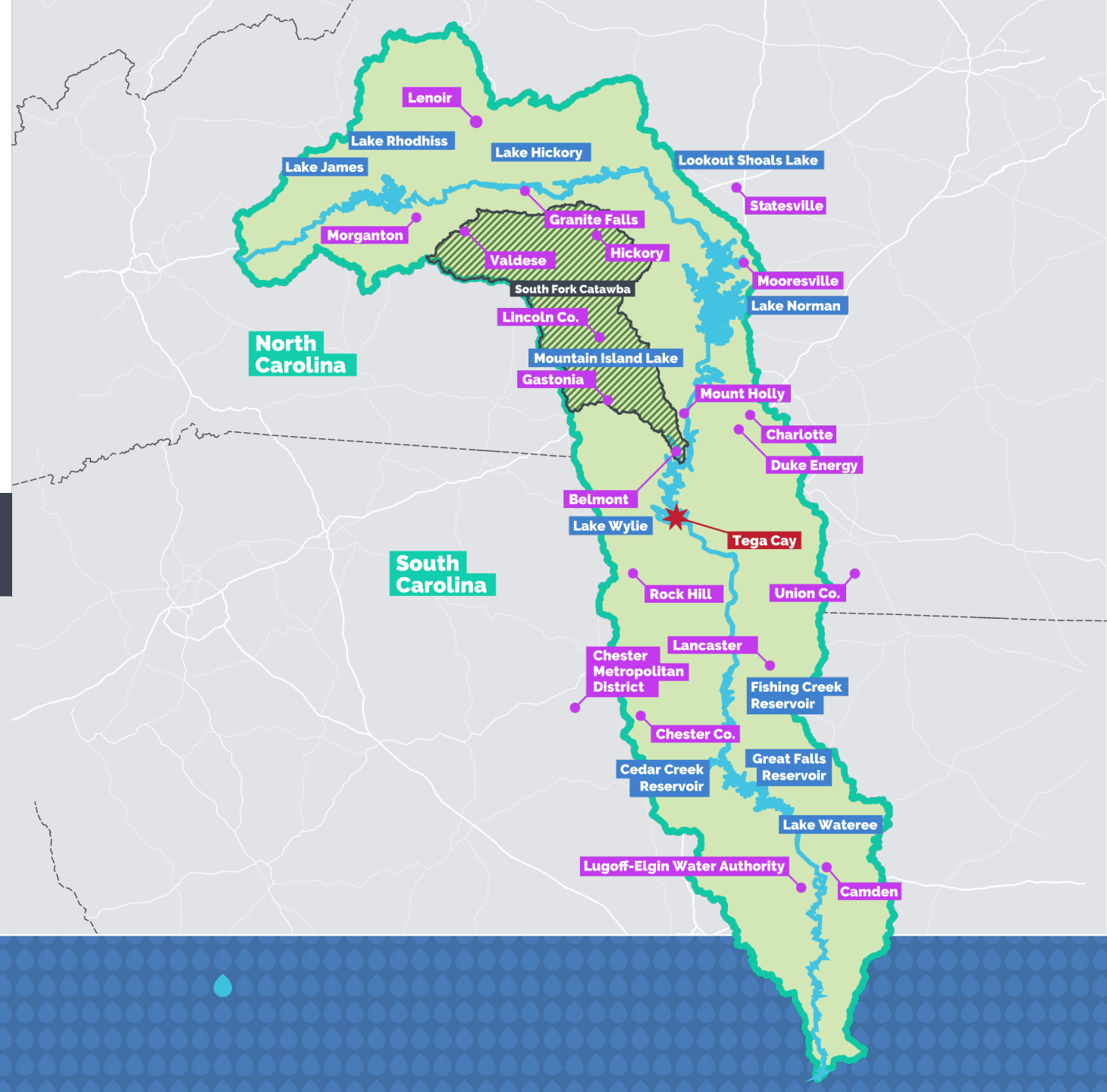
Catawba-Wateree River Basin



Main Riverine System

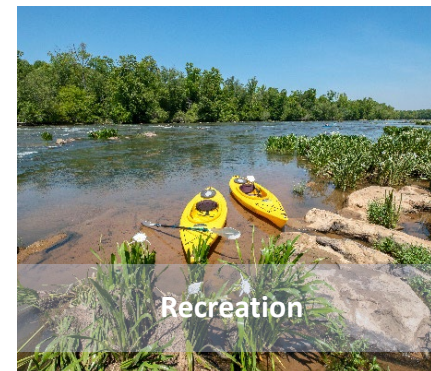
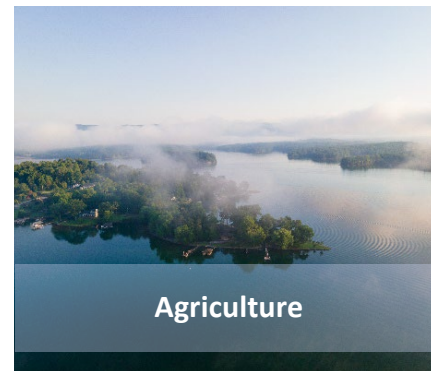
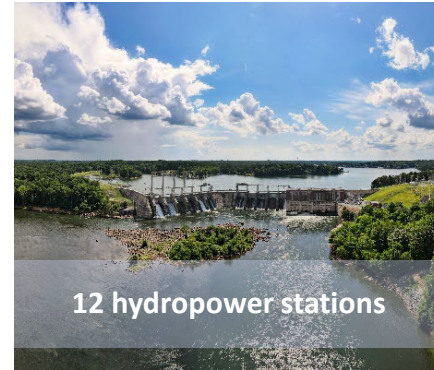


State Border

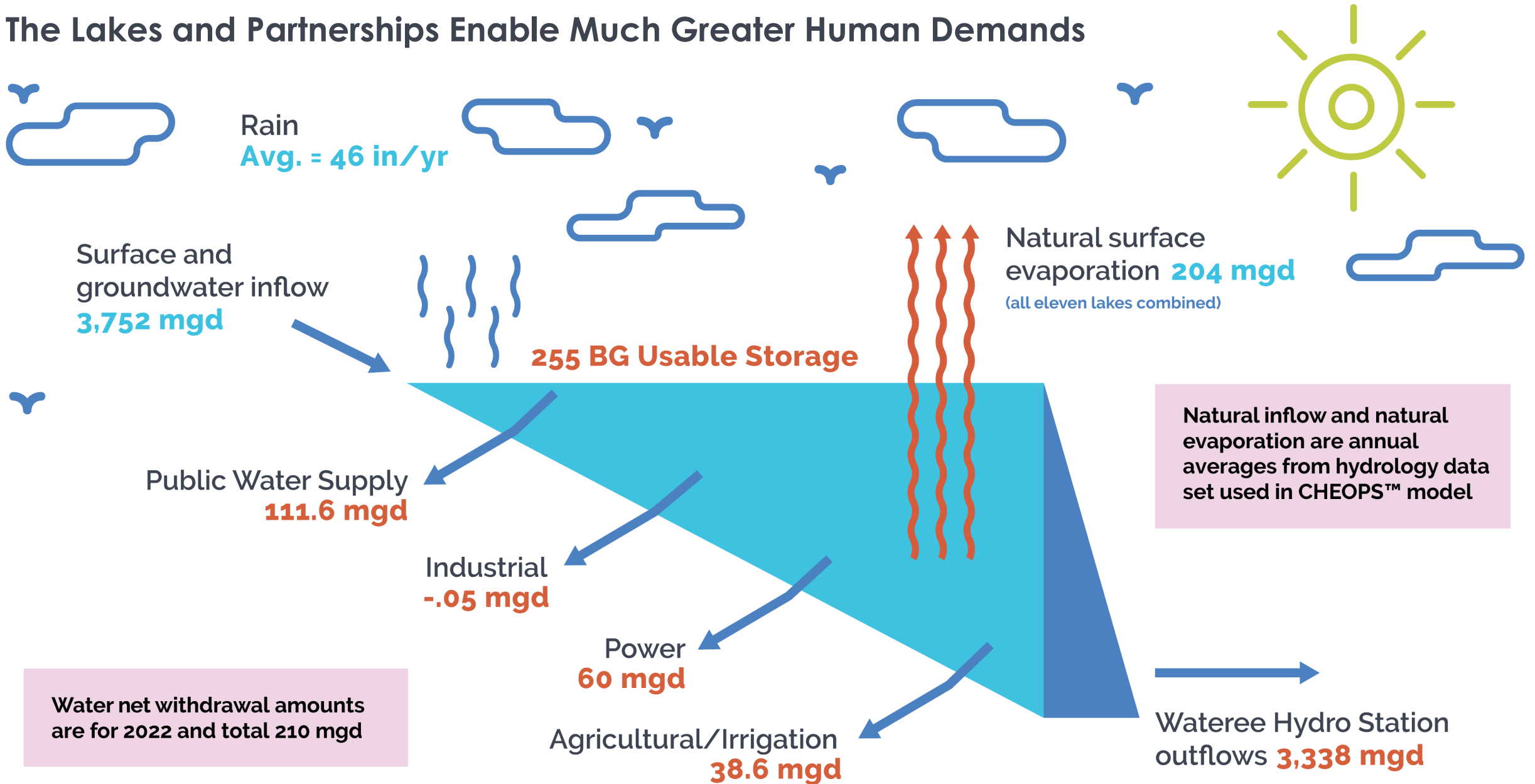


Hardest Working River in America?

Approximately 2 million people get water from the mainstem river/lake system.



The Lakes and Partnerships Enable Much Greater Human Demands



* mgd = million gallons per day; BG = Billion Gallons.

How We're Putting Water First – Some Examples

Integrated Water Resources Plan

**RTI, Univ. Penn. Water Center and HDR
Stakeholder Advisory Team
NCDEQ & SCDHEC
SCDNR**

Many Public Recreation Improvements

**York County Parks
Tega Cay Parks**

Coordinated efforts against invasive species

**Lake Norman Marine Commission
NC State
Funding Partners**

Members driving water loss management initiatives

**Chester Metropolitan District
Cavanaugh & Associates**

Source water protection partnerships

**Catawba Lands Conservancy
Catawba Riverkeeper
Foothills Conservancy
Katawba Valley Land Trust**

Regional wastewater treatment facility at Lake Wylie

**Charlotte Water
Mount Holly
Belmont**

Updated Shoreline Management Requirements

Shoreline Management Work Group

Inflatable Gates at Wateree Dam

Duke Energy

What is your role in putting water first? Are you making a difference? If not, why not?

Investing in Public Recreation – Allison Creek Park – Lake Wylie

Features

- Boat ramps
- Courtesy docks
- RV Park
- Canoeing
- Playground
- Picnicking
- Walking trail
- Fishing pier
- Restrooms
- Bath house
- Lighted parking

Partners

- Duke Energy
- York County



Investing in Public Recreation – South Point Park – Lake Wylie

Features

- Boat ramps
- Courtesy docks
- Walking trail
- Swim beach
- Picnicking
- Fishing piers
- Restrooms
- Lighted parking
- Kayak launch (coming)

Partners

- Duke Energy
- Gaston County
- NC Wildlife Resources Commission



Investing in Water Management – Inflatable Gates at Wateree Dam

Features

- Total spillway = 1,450 ft long, 72.4 ft high
- Inflatable gates
 - Low pressure bladders, hinged steel gates
 - 3 sections
 - Each 150 ft long, 4.5 ft high
 - 14,300 cfs flow with lake at full pond
- Target completion is May 1 (*two years ahead of schedule*)
- Will help manage moderate high-water events



Change is Coming - Is Water First or an After Thought? It's Up to Us



Original Catawba Dam - 1904



Flood of 1916



Wylie Dam Today

What is your role in putting water first? Are you making a difference? If not, why not?