



September RBC Meeting Review and October Field Trip Highlights

Aquatic Resources of the Broad River

Jason Bettinger, SCDNR

How many species of fish occur in the Broad River basin?

- a. 150
- b. 86
- c. 65
- d. 38



Robust Redhorse



Seagreen Darter



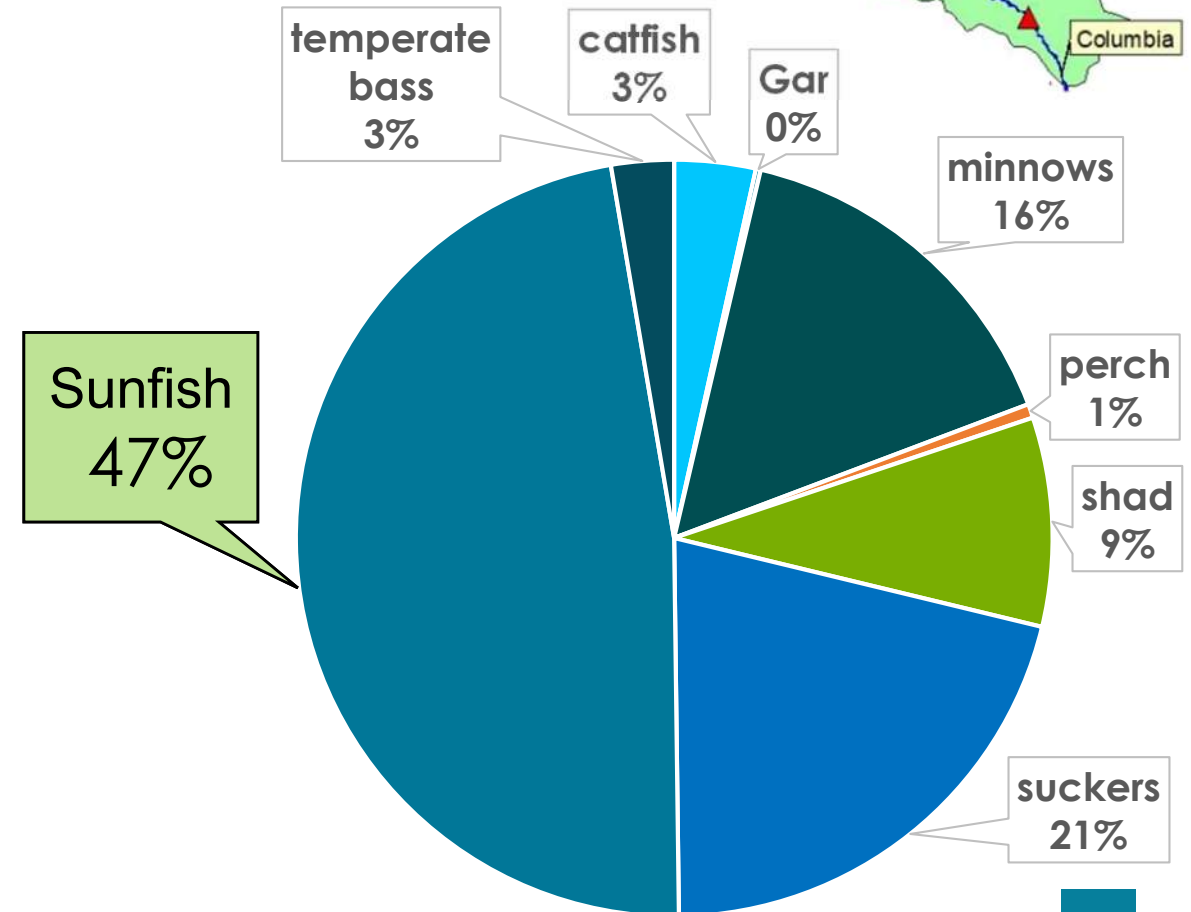
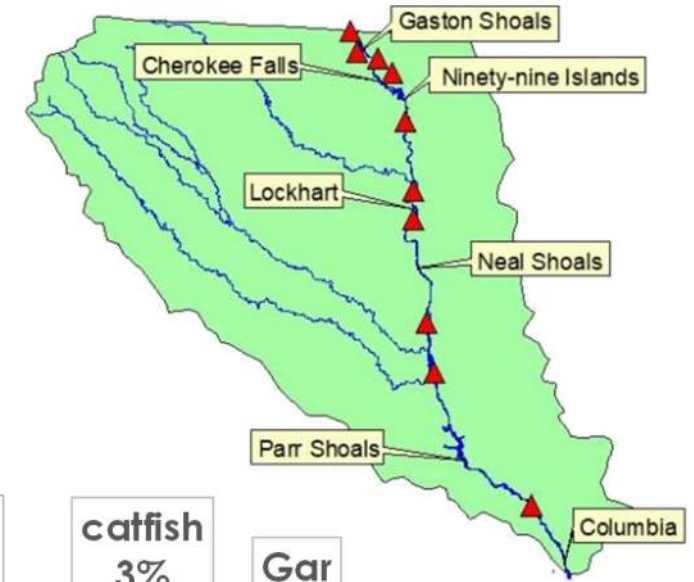
Fiery Black Shiner

Aquatic Resources of the Broad River

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An aquatic resources inventory was performed in 2003 and samples were collected from 11 sites along the Broad River.

What type of fish was found most often, accounting for 47% of all fish?



Aquatic Resources of the Broad River

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Other Takeaways from 2003 Survey:

- a. Species richness and diversity were **higher at downstream locations.**
- b. Largemouth Bass health in Broad River is generally good, but **poorer health is observed near industrial effluent.**
- c. Mussels are abundant in the lower river; however, they are rare in the upper reaches of the river due to **poor substrate conditions.**

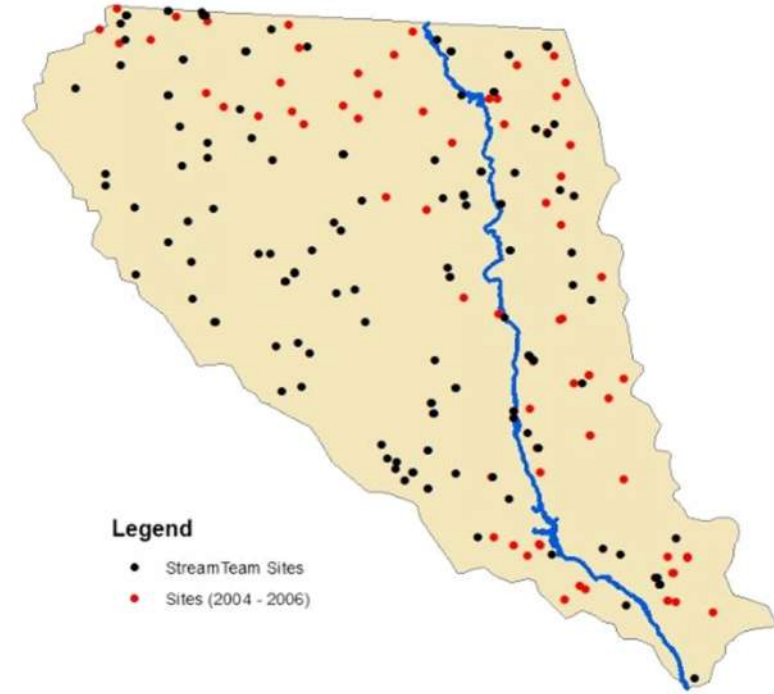


Aquatic Resources of the Broad River

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2006 Broad River Stream Survey Findings:

- 45 species collected
- 47% of the streams had “good” habitat conditions
- Number of fish species per stream averaged 14 (Range; 1 – 28)



Redbreast Sunfish

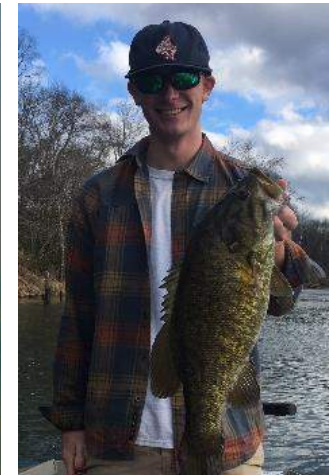
Aquatic Resources of the Broad River

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SCDNR Instream Flow Policy

- Policy defined the lowest acceptable instream flow necessary to protect and conserve aquatic resources, water quality, recreation, navigation and the prevention of saltwater intrusion.
- Policy does not enhance stream habitats or species, but provides a minimum level of protection for aquatic and recreational resources
- Based on average daily flow within a system
- Flows conform to seasonal variation because aquatic species evolved to spawn in synchrony with the hydrologic cycle

Region	Period	Minimum Recommended Instream-Flow (Percent of Mean Annual Daily Flow)
Piedmont	July – November	20%
	January – April	40%
	May, June & December	30%

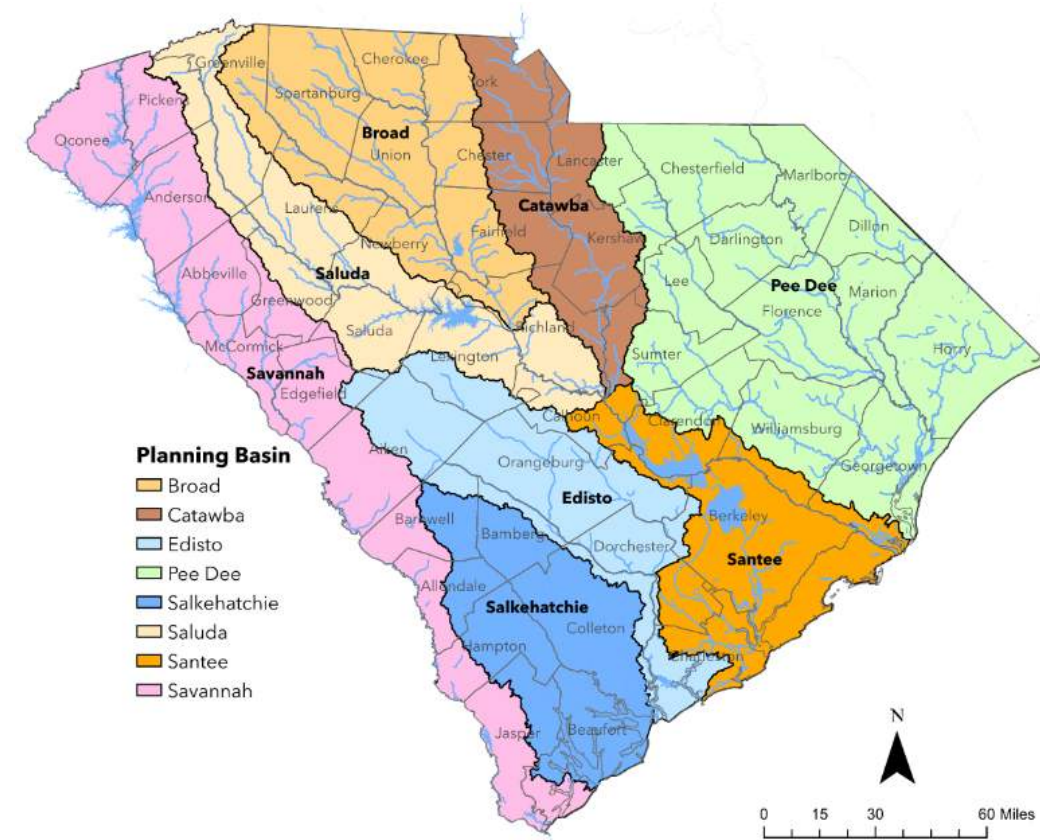


Groundwater Resources of the Broad Basin

Joe Gellici, SCDNR

In 2021, how did the Broad River basin compare to the other 7 basins in terms of total groundwater withdrawals?

- a. 2nd highest
- b. 5th highest
- c. 6th highest
- d. Last (lowest)



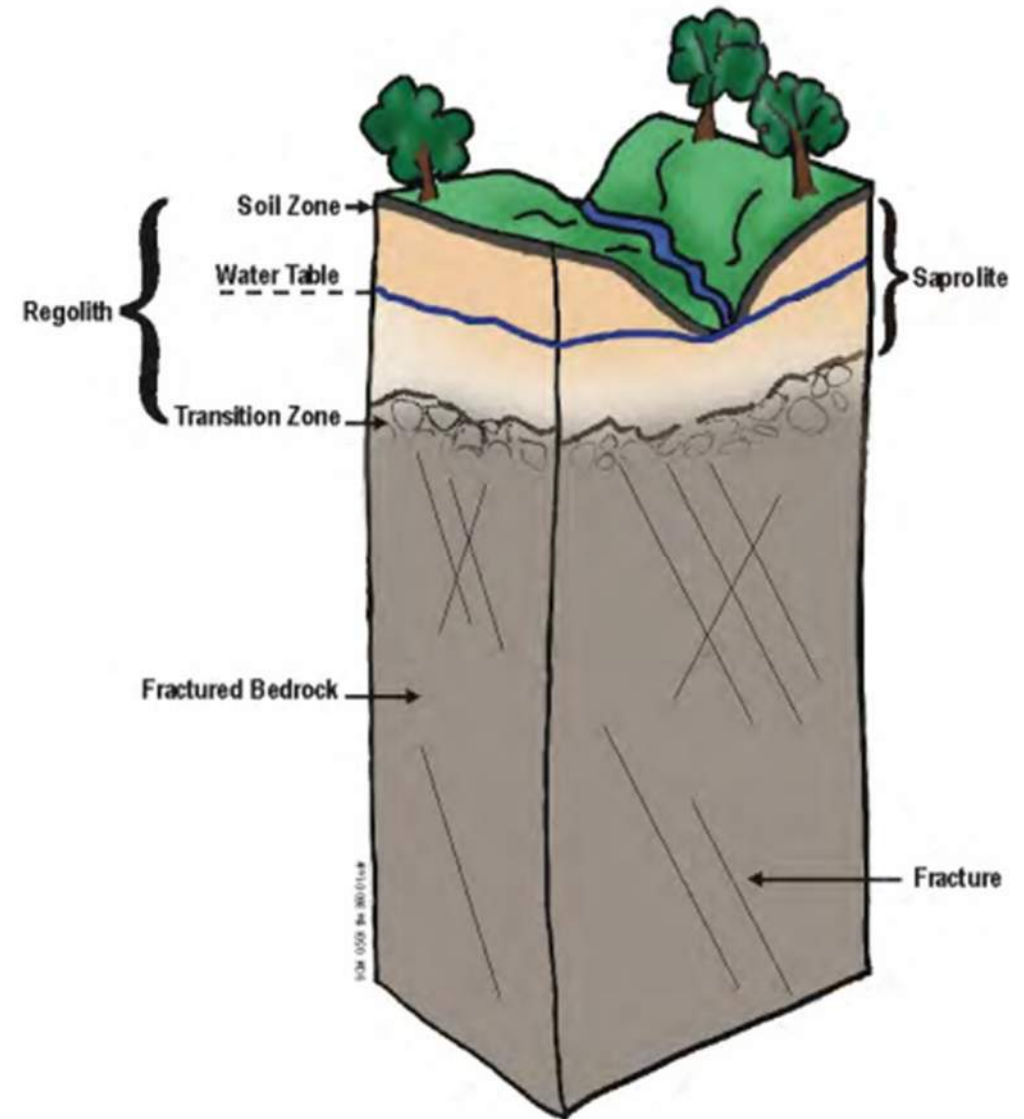
Total 2021 groundwater withdrawals in the Broad basin were 0.5 MGD (0.2% of statewide total)

Groundwater Resources of the Broad Basin

Joe Gellici, SCDNR

Other Groundwater Takeaways:

- a. Permitted groundwater users in the basin:
 - 4 public water suppliers
 - 3 industries
 - 2 golf courses
- b. Groundwater is the principal source of water for **rural homes** in the basin.
- c. Well yields usually satisfy the requirements of most **domestic use** and some **small irrigation** and **industrial use**.



October Field Trip Highlights



Padding Lake Blalock



Lake Blalock Water Supply Intake



Lake Blalock Dam



Lake Blalock Release to the South Pacolet River



Spartanburg Water System's Advanced Oxidation Project



Cooley Farms/Strawberry Hill



Strawberry Hill USA- PRODUCE SHED



