



June RBC Meeting Review

John Boyer

Agenda Item 3

Kevin Kubach, SCDNR – Aquatic Biodiversity of the Saluda Basin

1. How many fish species are in the Saluda basin?
 - 26, 39, 63, or 84?
2. The Saluda basin has what percent of SC's native freshwater fish diversity?
 - 10%, 25%, 30% or 60%?
3. How many *Regional Fish Species of Greatest Conservation Need* are there in the Saluda basin?
 - 9, 12, 15 or 18?

Amy Chastain, SCDNR – Fisheries Management

1. Rainbow, Brook, and Brown Trout are stocked in the North, Middle and South Saluda Rivers and tributaries and 3 different mountain lakes
2. SCDNR conducts **fish habitat enhancement projects** in Lake Greenwood and Lake Murray
3. Creel Surveys conducted in Lake Greenwood and the Saluda River below Buzzard Roost to Lake Murray headwaters.
4. Estimated \$2.8M is spent annually by anglers in Lake Greenwood

Flow-Ecology Relationships

Drs. Luke Bower, Joe Mruzek and Brandon Peoples

1. Build a hydrologic foundation of streamflow and biological data

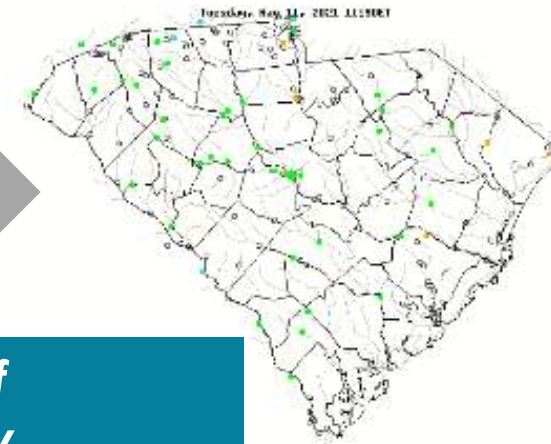
2. Classify natural river types

3. Determine flow-ecology relationships associated within each river type

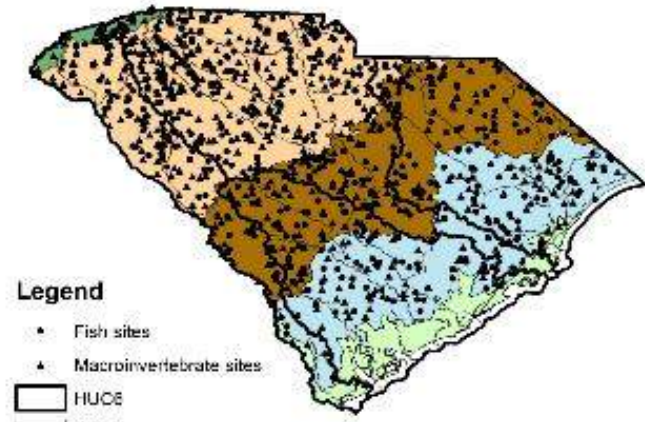
4. Evaluate potential response (in terms of risk) to various water withdrawal scenarios



Streamflow gages



Fish and macroinvertebrate sites

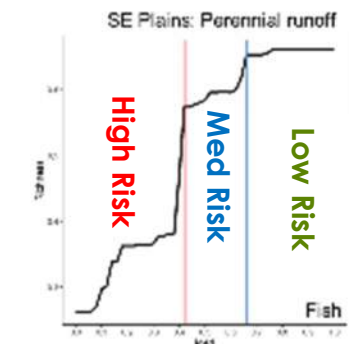
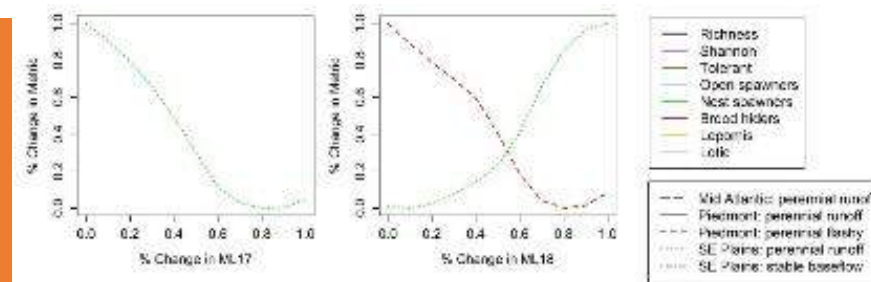


Legend

- Fish sites
- ▲ Macroinvertebrate sites
- HU2
- HU2
- Blue Ridge
- Southern Coastal Plain
- Southeastern Plain
- Middle Atlantic Coastal Plain
- Piedmont

a. Perennial runoff
 b. Stable baseflow
 c. Perennial flashy
 d. Intermittent

a. Discovered many relationships
 b. All components of the flow regime are important
 c. These relationships differ between stream classes



Saluda Basin Agriculture Review

Dr. Nathan Smith

Saluda River Basin Counties FSA Certified Crop Acres

	Non-Irr	Irr	Total	Non-Irr %	Irr%	Annual Water Needed Inches/Acre/ Season
Corn	14,461	10,983	25,444	57%	43%	38
Cotton	17,635	11,023	28,659	62%	38%	16
Peanuts	4,973	7,630	12,602	39%	61%	18.78
Soybeans	14,385	1,819	16,204	89%	11%	18.5
Wheat	10,842	683	11,525	94%	6%	N/A