Flow-Ecology Relationships Saluda RBC, October 18th, 2023

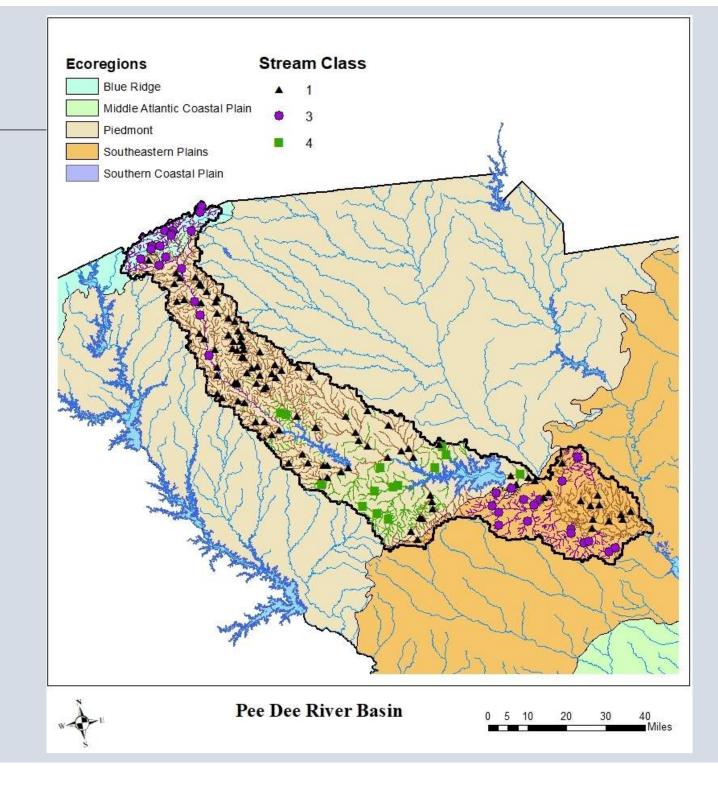


Drs. Luke Bower, Joe Mruzek, and Brandon Peoples

Agenda Item 3

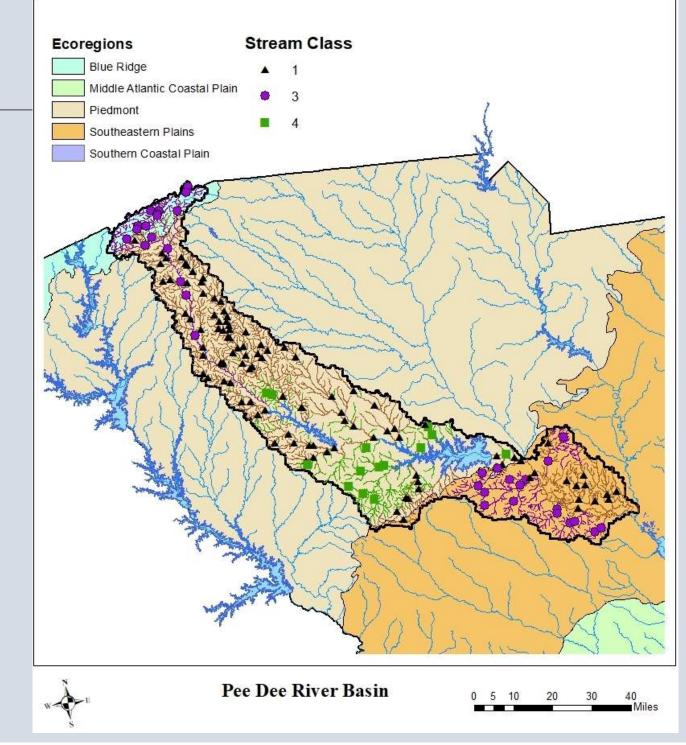
Ecoregions

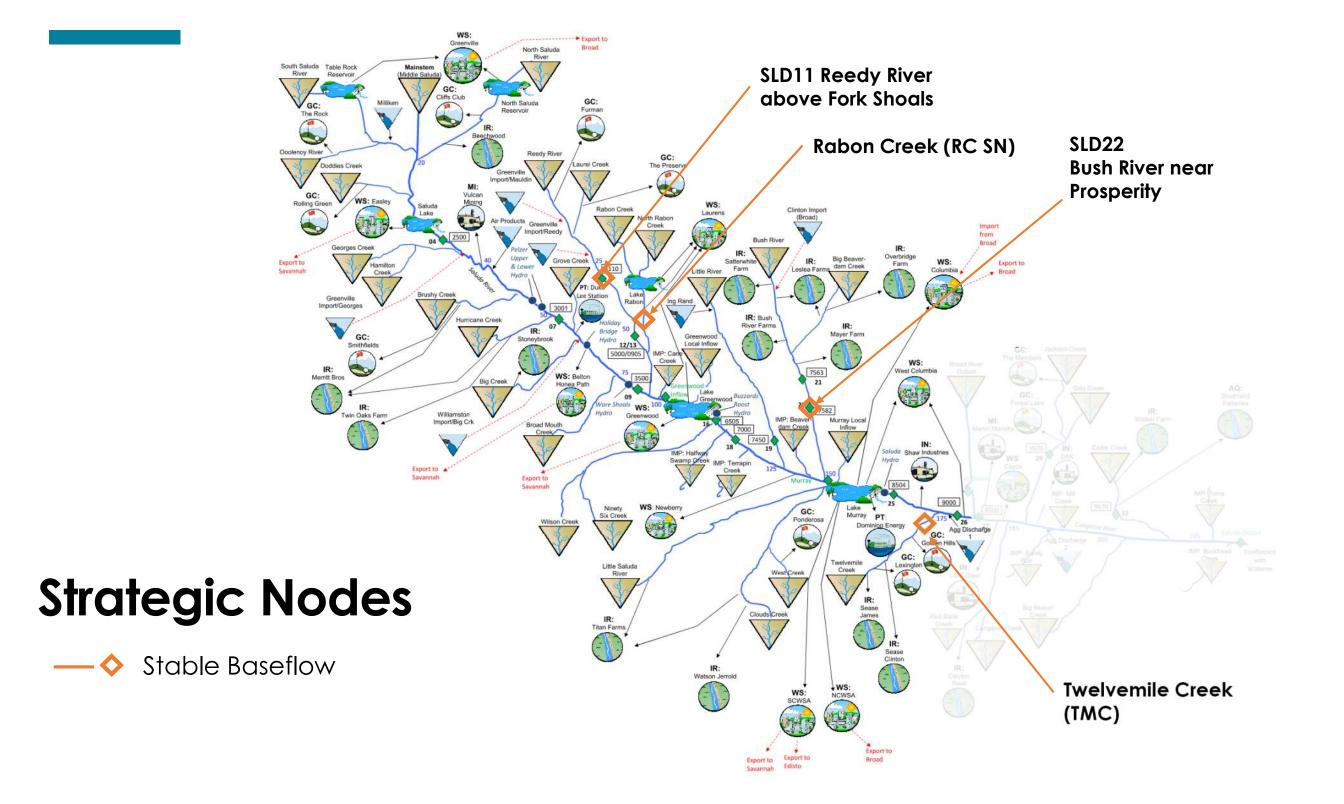
- Blue Ridge: Mountainous
- Piedmont: Rolling hills
- Southeastern plains: Flatter, well drained sandy soils



Stream Classes

- 1: Perennial runoff: moderately stabile flow and distinct seasonal extremes
 - Stable baseflow: high precipitation, sustained high baseflows, and moderately high run-off
 - 4: Perennial flashy: moderately stabile flow with high flow variability





Selected Metrics

	Instream Flow Performance Recommendations and Risk Ranges		
Stream Type:	Piedmont Perennial Runnoff		
	Risk Ranges		
	Low	Med	High
Flow Metric			
Mean Daily Flow (FR)	>0.78	0.64-0.78	<0.64
Calendar Day of Lowest Flow (BHF)	>327		

FR=Fish Species Richness: The number of fish species found in a stream or river reach BHF=Brood hiding fishes. Brood hiders bury of place their eggs in a concealed location, but do not guard or provide any parental care.