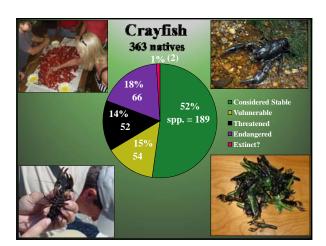




Pigeon River Recovery River recovery began in the early 90s Annual biotic monitoring by UT, TVA, TWRA, and Blue Ridge Paper Inc. Research projects include: Nou-game fish reintroductions (Joyce Coombs, TDEC and CFI) Salamander survey (Nikki Maxwell) Salamander survey (Nikki Maxwell) Aquatic insect info database (Melinda Bousfield) Water chemistry (UT, TDEC, TVA, Blue Ridge Paper Inc. et al.)

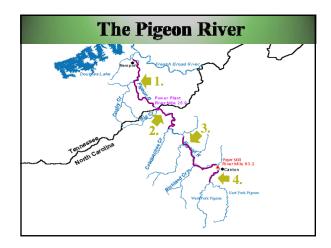


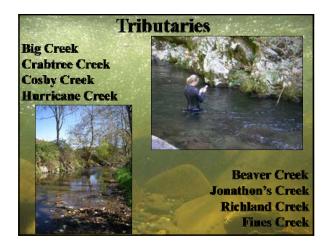


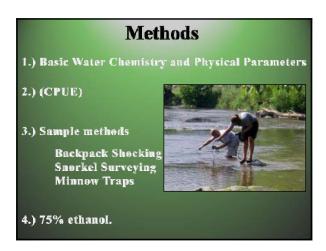
Justification for Research Common Crayfish Big Water Crayfish	
Long Nose Crayfish	Reticulate Crayfish
Surgeon Crayfish	French Broad Crayfish
Mitten Crayfish	Cataloochee Morph Crayfish
Virile Crayfish	Upland Burrowing Crayfish
White River Crayfish	Red Burrowing Crayfish

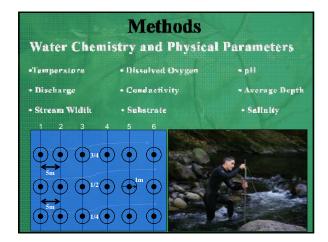


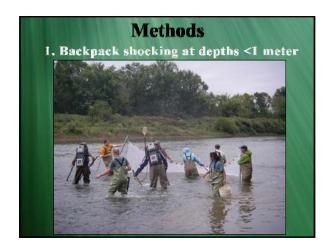
Objectives 1.) Survey of the main stem and tributaries Document crayfishes distributions Document diversity and concentrations 2.) Above paper mill vs. Below paper mill Differences in crayfish community composition Differences in crayfish sizes 3.) Above power plant vs. Below power plant Differences in crayfish community composition Differences in crayfish sizes

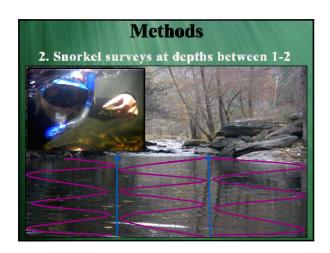


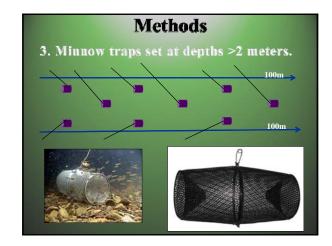




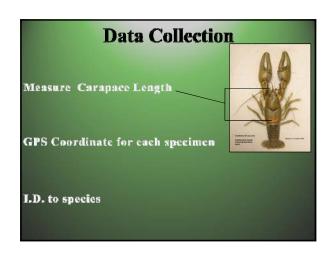












Data Analysis

Comparison:

Carapace Lengths
Crayfish Concentrations

Above paper mill vs. below paper mill

Above dam vs. below dam

Species locations will be mapped

Acknowledgments Committee: Dr. Larry Wilson Dr. Richard Strange Jonathon Burr (TDEC) Joyce Coombs Carl E. Williams (TWRA) Blue Ridge Paper Products Inc.

