

Kings River Watershed Project 06-500 FY 2006 CWA Section 319 (h)

Kings River Vatershed Partnership * Madison County Conservation District Carroll County Conservation District * Arkansas Game and Fish Commission Arkansas Natural Resources Commission



Goals and Objectives

Demonstrate and document stream restoration practices to be shared with landowners in order to reduce the total amount of sediment and associated nutrients entering the Kings River Watershed.

- A. Geomorphic, chemical and benthic macroinvertebrate monitoring
- B. Education and Outreach
- C. Streambank restoration demonstration



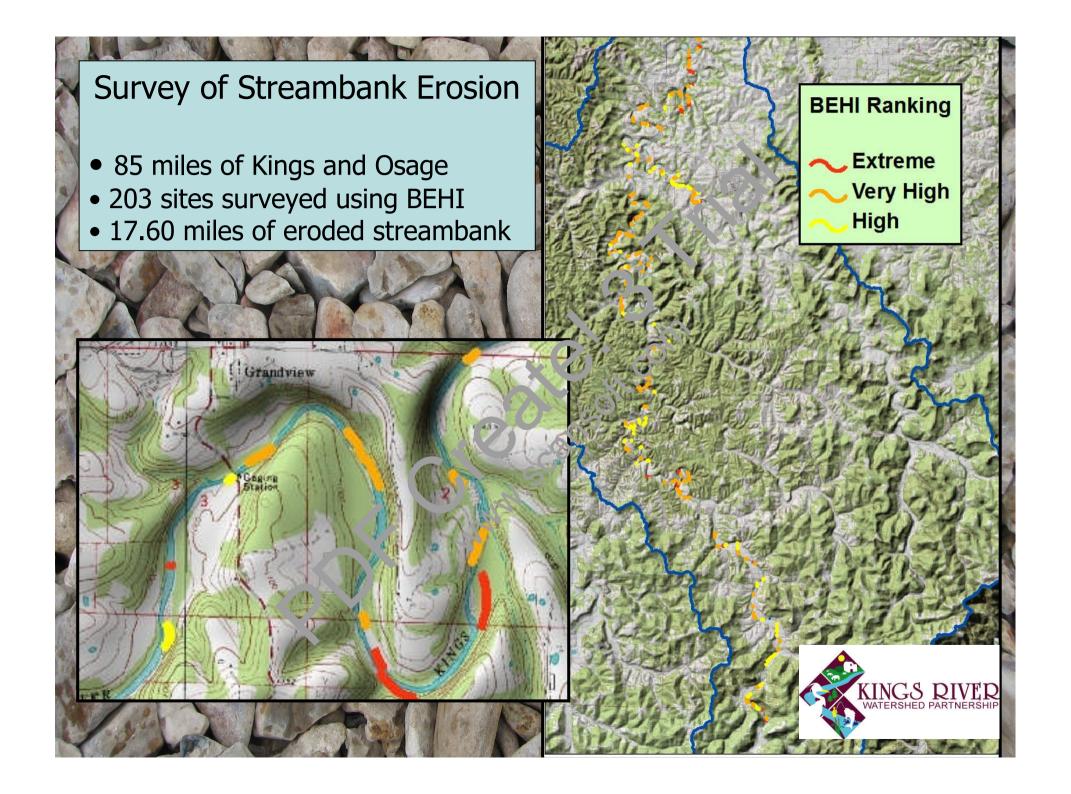
Year 1

- Geomorphological Survey
- Aquatic
 Macroinvertebrate
 Monitoring, Event 1 & 2
- Monthly Chemical Monitoring
- KRWP Website
- Secondary Education
 Modules
- DemonstrationWorkshops

Year 2

- Streambank Restoration
- Aquatic
 Macroinvertebrate
 Monitoring, Event 3 & 4
- Monthly Chemical Monitoring
- Landowner's Handbook
- Educational Workshops





Chemical Monitoring

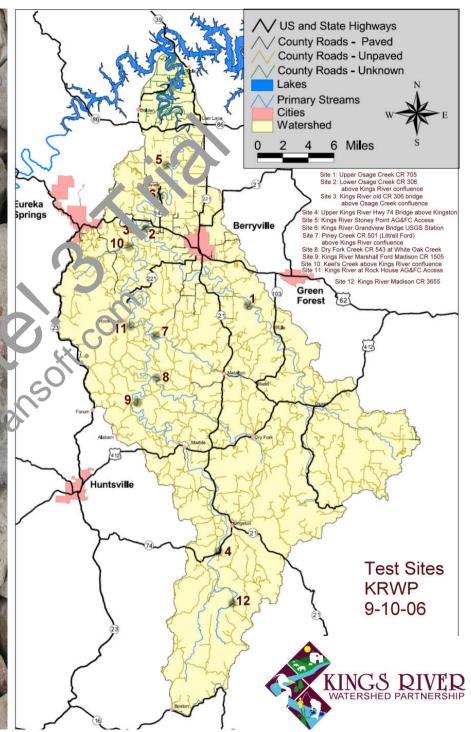
Dissolved Oxygen pH
Total Dissolved Solids Hardness
Phosphate-phosphorus Alkalinity
Water/Air Temperature Turbidity

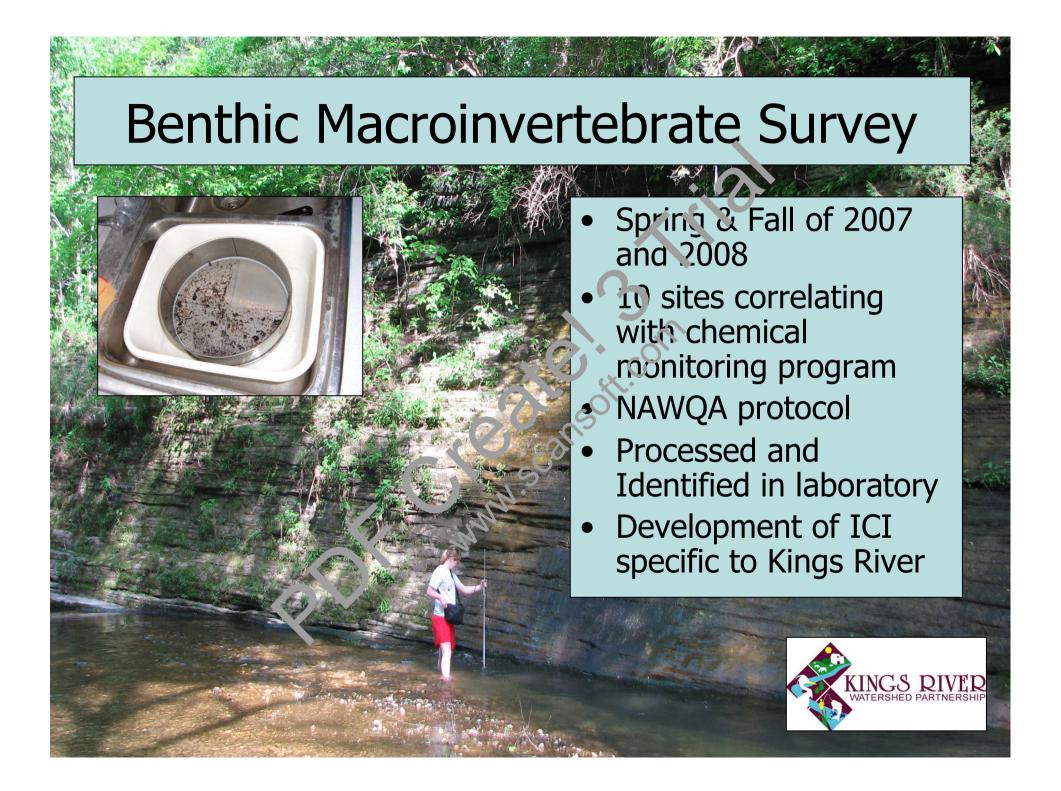
Nitrate-nitrogen

Monthly testing at 10 sites

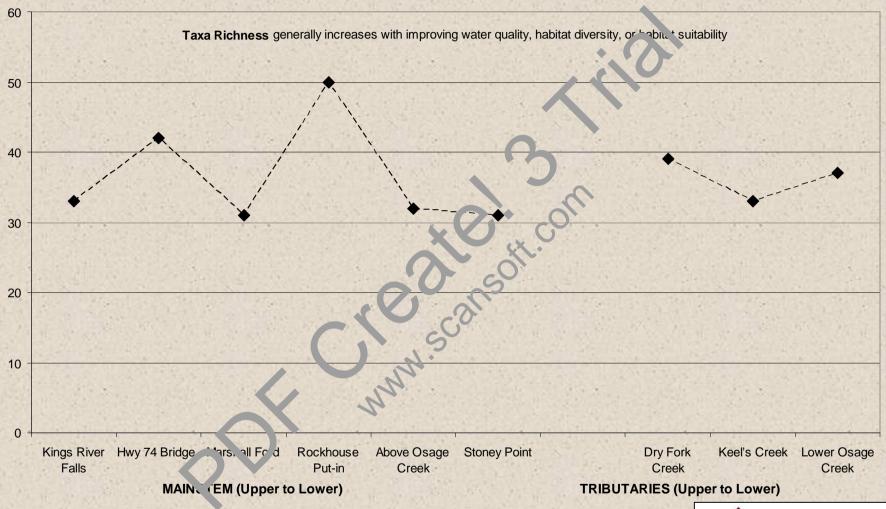
Duplicate sampling twice per year with AWRC





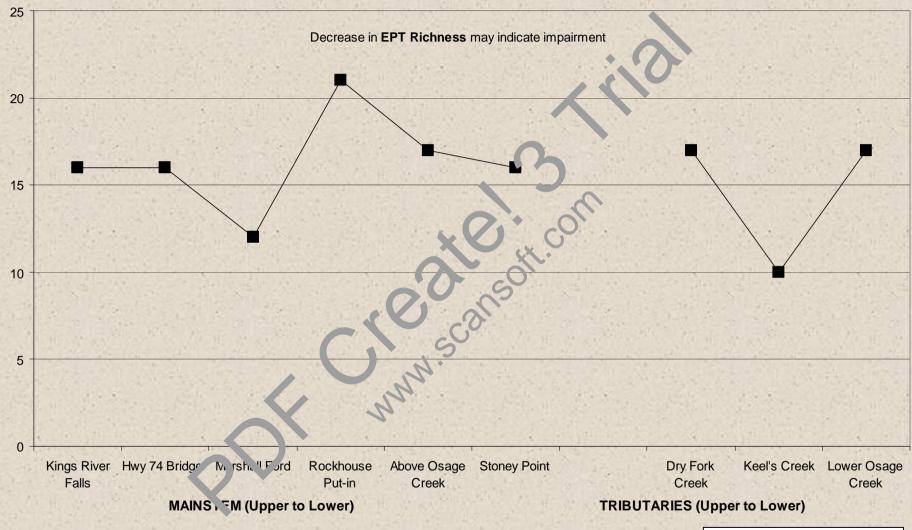


KINGS RIVER BIOLOGICAL ASSESSMENT - SPRING 2007 Taxa Richness



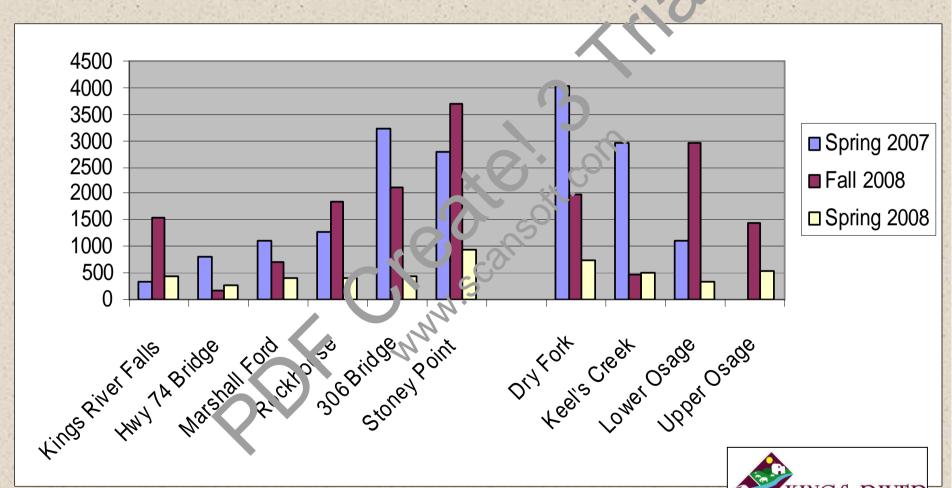


KINGS RIVER BIOLOGICAL ASSESSMENT - SPRING 2007 EPT Richness

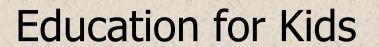




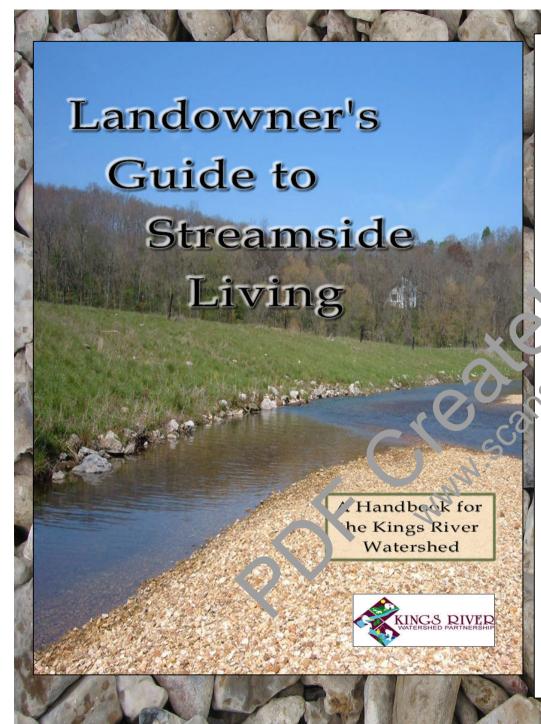
Density of Macroinvertebrate Populations











Section 1

- Ownership & Public Use
- Property & Stream Modifications
- Onsite Wasta Treatment Systems
- Floodplain Development
- Wilding Regulations

Section 2

- Understanding the Stream Corridor
- Historical Changes
- Creatures of the Kings

Section 3

- The Dirt on Dirt
- I Thought Nutrients Were Good For You?
- Water Quality on the Kings

Section 4

- Riparian Buffers
- Restoring Riparian Buffer to Reduce Erosion
- Engineered Streambank Restoration
- Financial & Technical Resources





