



Watershed Restoration and Protection Strategy

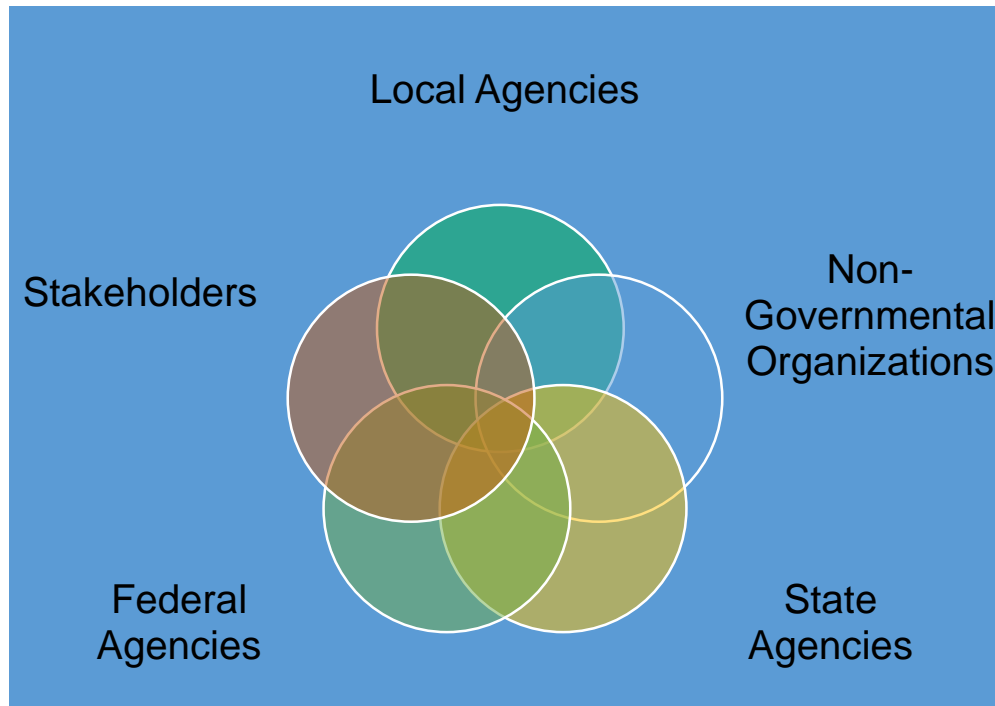
Bureau of Environmental Field Services, Watershed Management Section

Watershed Management Section Programs:

- Local Environmental Protection Program (Plans)
- Local Water Quality Protection Plans
- Information and Education Program
- CWA Section 401 Water Quality Certification
- Drinking Water Protection
- Kansas Water Pollution Control Revolving Fund for NPS
- Local Conservation Lending Program
- CWA Section 319 NPS Program
- **KS WRAPS Program**



Collaborative Watershed Management



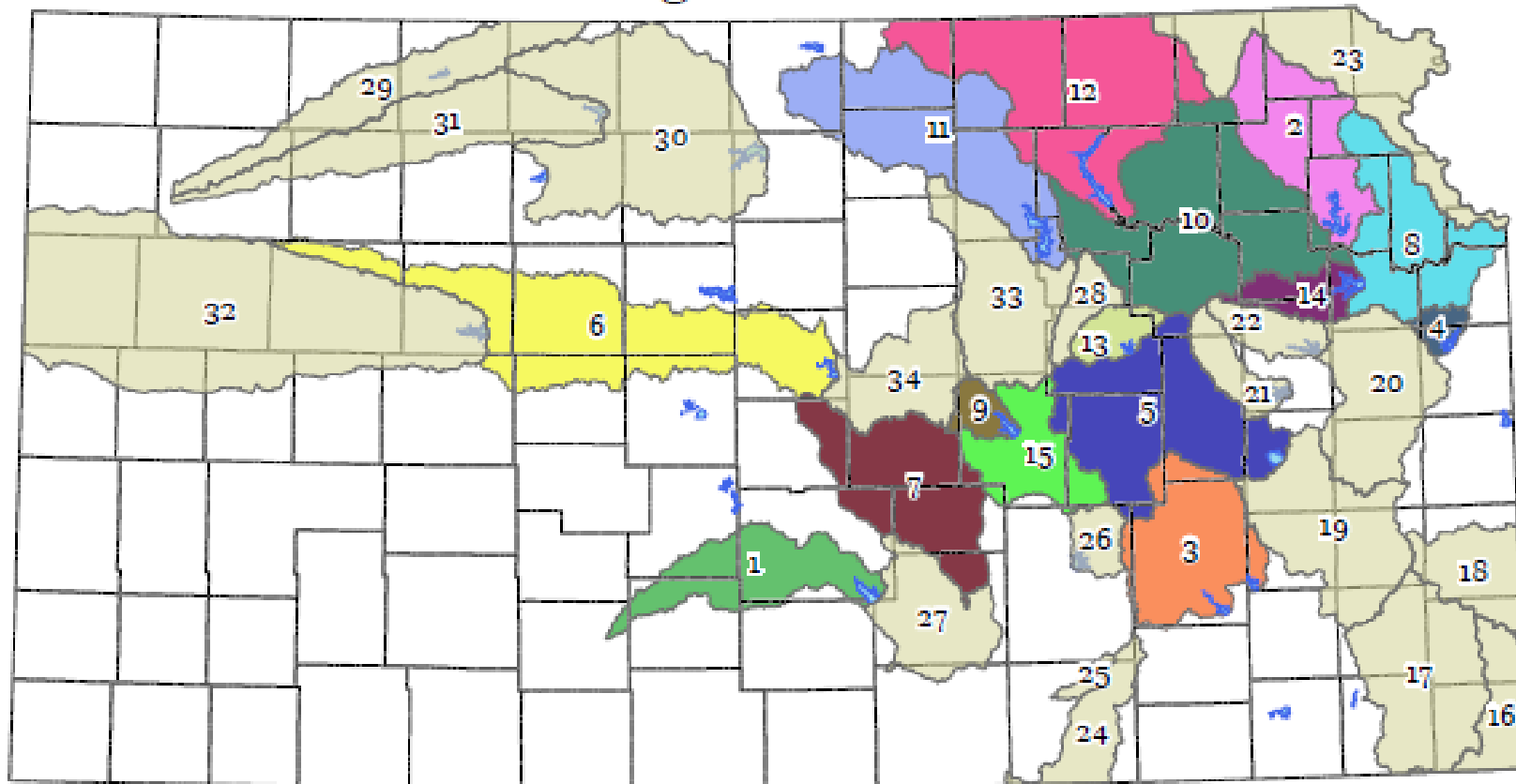
- Vision of WRAPS is to achieve improved water quality for the state of Kansas through collaborative watershed management.
- WRAPS Projects work collectively with many partners including state and federal agencies, local producers, industry, municipalities, and other stakeholders to develop, plan, and implement strategies to address water quality concerns.

Priority NPS Issues

- Total Maximum Daily Loads
- Source Water Protection
- Surface Water Nutrient Reduction
- Reservoir Sustainability
- Wetland and Riparian Area Management
- A Long-Term Vision for the future of Water Supply in Kansas
- Harmful Algal Blooms
- Protection of High Value Resources (SALU, ESW, ONRW, Reference Watersheds)

Watershed Protection and Restoration Strategy (WRAPS)

August 2019



Watershed Protection and Restoration Strategy (WRAPS)

Watershed Planning

- Plan – Effectively and efficiently increase the number of water bodies meeting surface water quality standards through targeted implementation of water quality practices
- Content –
 - Water Quality Goal and Sources of Pollution
 - Watershed Needs (what's the problem)
 - Efficiency and Cost Effective BMPs
 - Targeted Subwatersheds
 - Short, Mid and Long Term Milestones

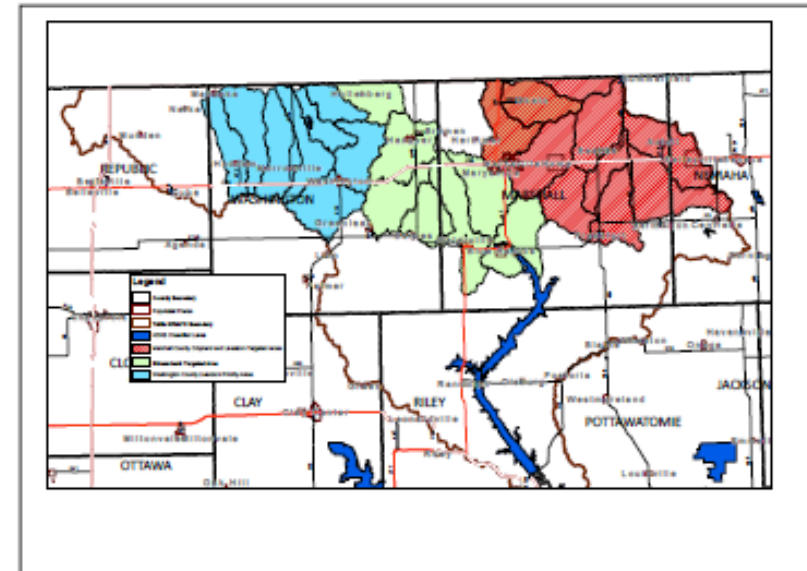


Figure 1. Map of Lower Big Blue-Lower Little Blue Rivers Watershed.

Cropland, Livestock and Sediment Priority Areas in the Watershed identified via modeling, water quality data review, local knowledge, etc.

Directly addressing High Priority TMDLs for:

- Bacteria – Big Blue River above Tuttle Creek
- Bacteria- Little Blue River
- Bacteria – Black Vermillion River
- Atrazine – Tuttle Creek Lake Watershed
- Atrazine – Tuttle Creek Lake and Watershed
- Atrazine – Tuttle Creek Lake
- Siltation – Tuttle Creek Lake
- Eutrophication – Tuttle Creek Lake



WRAPS Tool Box

Land Purchase

Land Lease

Land Sub-Lease

Equipment Purchase or Lease

- Interseeder
- No-Till Planter
- No-Till Drill
- Sprayer
- Air Seeder



Custom Cover Crop Planting

Custom No-Till Planting

Cost - Share

Fence and Water Source
on Cropland









Thank you/Questions

