



Buffalo - Red River Watershed District BMP Strategic Plan



Clean Water Funds: 2012

Clean Water Grant	\$57,818
Leveraged Funds*	\$14,455
Total Project Budget	\$72,273

* Leveraged Funds include required 25% local match

Project Sponsor:

Buffalo - Red River Watershed District

Grant Period:

January 2012 — December 2014

Project Contact:

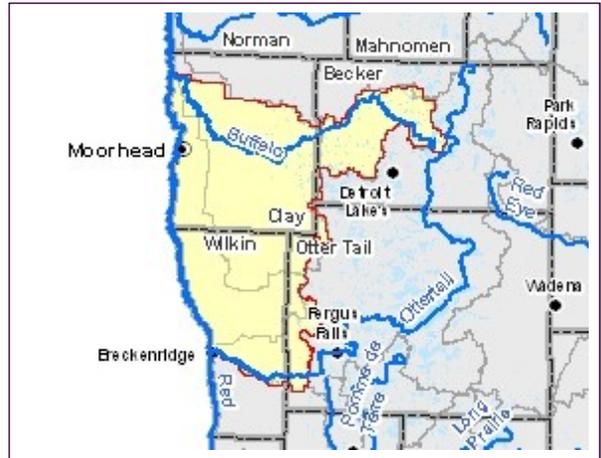
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C12-164 - Accelerated Implementation

Project Narrative

Multiple water courses in the Buffalo River - Red River Watershed District are impaired for turbidity. These waterways include the Red River of the North, Wolverton Creek, Deerhorn Creek, Stoney Creek, South Branch Buffalo River, and the main stem of the Buffalo River. This project will provide a means of prioritizing areas of the watershed to implement conservation practices to reduce overland runoff contaminant loadings contributing to water quality impairments. This will help maximize the environmental benefit and minimize the financial investment in conservation practices within the watershed. This targeting information will be available



to landowners, resource managers and others. State-of-the-art technologies will be used to accomplish the goals of the project. High resolution electronic data will be used to construct highly accurate patterns of flowing water in the watershed. These flow paths, in conjunction with land-use and soils information, will be used to analyze the potential for contaminant loading.

Proposed Outcomes:

- Hydrologically Reconditioned Digital Elevation Model (DEM) and derived Hydrographic Characteristics
- Stream Power Index, Wetness Index, and RUSLE (Revised Universal Soil Loss Equation) Spatial Analysis .
- Development of Web-based GIS Application based on the Stream Power Index and RUSLE

Actual Outcomes:

Project in Progress

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