



Red River Basin Water Quality Decision Support Application (WQDSA)



Clean Water Funds: 2012

Clean Water Grant	\$194,490
Leveraged Funds*	\$49,500
Total Project Budget	\$243,990

* Leveraged Funds include required 25% local match

Project Sponsor:

Red River Watershed Management Board

Grant Period:

January 2012 — December 2014

Project Contact:

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C12-202 - Accelerated Implementation

Project Narrative

This project will provide land and water managers in the Red River Basin with data and online tools to prioritize actions on the landscape that achieve water quality objectives identified in local and state plans. This will help identify strategically important locations for implementing erosion control and water management practices. Standardized watershed-based data products will be integrated into a web-based planning tool which will be added to the Red River Basin Decision Information Network (RRBDIN) being developed as part of the Red River Watershed Feasibility Study.



The WQDSA project will develop and refine high resolution remote sensing data to effectively target locations that reduce field erosion, map areas of gully erosion and areas of concentrated flow based on subtle landscape changes. Using Light Detection and Ranging (LIDAR) technology allows large scale data analysis that would be impossible to obtain using traditional land survey techniques. The WQDSA will provide public access to new geospatial data layers in an online application to effectively plan and implement activities to reduce flow and sediment loading. The WQDSA will allow users to identify the water quality problems; establish goals and objectives; reference planning documents; interactively create maps of projects for demonstration and marketing; save projects in a database for future refinement; and potentially export relevant information in a format suited to existing planning and reporting tools.

Proposed Outcomes:

- Geospatial Data Products
- Data Products integrated into WQDSA in RRB-DIN
- Steering Committee Meetings/Train-the-Trainer Sessions
- Feasibility report (expand WQDSA functions)
- Final Report and Workshops

Actual Outcomes:

Project in Progress

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