Rock River Watershed Targeting Tools

Clean Water Funds: 2013

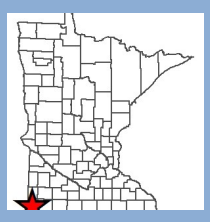
Clean Water Grant	$69,510
Leveraged Funds*	$17,378
Total Project Budget	$86,888

*** Leveraged Funds include required 25% local match**

Project Sponsor:
Rock County SWCD

Grant Period:
January 2013—December 2015

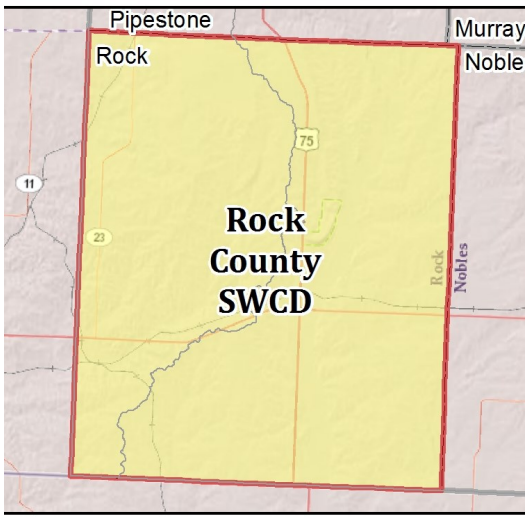
Project Contact:
Douglas Bos



- AcceleratCWF13-258ed Implementation

Project Narrative

The Rock River Watershed encompasses runoff from the four counties of Rock, Pipestone, Murray and Nobles.



The Rock River Watershed, along with the adjacent Elm Creek are listed as impaired by turbidity and fecal coliform. With limited funds available for restoration projects, targeting tools to pinpoint locations where projects stand to have the highest effectiveness are increasingly important.

This project utilizes LiDAR topographic data to determine areas of high importance for project implementation within the 570 square-mile watershed. Using sophisticated Geographic Information System analysis techniques on LiDAR data, along with available soils and land-use data, the project will assess the susceptibility of erosion and determine ideal locations to store runoff on the landscape. By assessing the ability to store water along with the erosive potential of the landscape, project implementation locations can be determined that have multiple benefits for both water quality and water quantity. This will be Phase I of a focused approach to address the areas of the watershed .

Proposed Outcomes:

1. Create a LiDAR dataset that can be used to develop accurate hydrologic characteristics of the watershed.
2. Determine Non-Contributing areas
3. Assess existing watershed conditions and identify critical source areas using Stream Power Index, the Compound Topographic Index, and RUSLE2
4. Incorporate results into the each county's current web-based map viewers.

Actual Outcomes:

Project in Progress