

Annual Report on Clean Water Fund Appropriations



Minnesota Board of Water and Soil Resources Annual Report to the Legislature



March 1, 2011

Legislative Charge:

Minnesota Session Laws 2009 Chapter 172 Article 2, Section 6(h) and Section 6, which read:

...The board, the commissioner of natural resources and the commissioner of the Pollution Control Agency to the legislature detailing the recipients and projects funded under this section; the anticipated water quality benefits of projects funded; the relationship of restoration projects to TMDL load allocations; the relationship of protection projects to monitored water quality trends; and individual county and aggregated statewide progress in: (1) identifying noncompliant SSTS, establishing maintenance oversight systems, and SSTS upgrades funded under this section; and (2) identifying and upgrading open lot feedlots under 300 animal units in shoreland.

The board shall submit a report on the expenditure and use of money appropriated under this section to the chairs of the House of Representatives and senate committees with jurisdiction over environment and natural resources and environment and natural resources finance by March 1 of each year. The report must provide detail on: the expenditure of funds, including maps; the effectiveness of the expenditures in protecting, enhancing, and restoring water quality in lakes, rivers, and streams and protecting groundwater from degradation; and the effectiveness of the expenditures in keeping water on the land.

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BWSR is reducing printing and mailing costs by using the Internet to distribute reports and information to wider audiences.

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This report is available at www.bwsr.state.mn.us/cleanwaterfund and available in alternative formats upon request.

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Introduction

The Minnesota Board of Water and Soil Resources (BWSR) is the state's soil and water conservation agency. BWSR administers programs in partnership with local organizations and private landowners that prevent sediment and nutrients from entering our lakes, rivers, and streams; enhance fish and wildlife habitat; and protect groundwater and wetlands.

This report outlines the comprehensive strategy used to implement the Fiscal Year (FY) 2011 appropriation to BWSR from the Clean Water Fund -- one of four funds established through the Clean Water, Land and Legacy constitutional amendment approved by voters in 2008. The amendment increases the sales tax by 3/8 of 1 percent and dedicates the revenue to preserving and protecting fish and wildlife habitat, clean water, parks and trails, and arts and cultural heritage.

The Clean Water Fund comprises 33 percent of the tax dollars collected from this amendment. Other funds through this amendment are the Outdoor Heritage Fund (33 percent), Parks and Trails Fund (14.25 percent), and Arts and Cultural Heritage Fund (19.75 percent).

Clean Water Fund Appropriation Summary

During the 2009 Legislative Session, \$18,705,000 in FY 2010 and \$20,655,000 in FY 2011 was appropriated to BWSR from the Clean Water Fund to implement nonpoint source pollution reduction programs. During the 2010 Legislative session, an additional \$1,100,000 was appropriated to three specific funding categories. Table 1 summarizes the programs and funding allocated under the appropriation.

Reporting requirements and accountability

BWSR has distributed approximately \$24 million in Fiscal Years 2010 and 2011 through a competitive grant process. Each grant applicant must meet various reporting requirements to demonstrate the effectiveness of these expenditures. These requirements are found in Minnesota Session Laws 2009 Chapter 172 Article 5, Section 7, Subdivision 4. Expenditures; Accountability and Minnesota Session Laws 2009 Chapter 172 Article 5, Section 7, Subdivision 5. Data Availability.

BWSR has also allocated \$3.69 million for permanent conservation easement projects to establish buffer strips adjacent to public waters, and is in the process of allocating \$1.43 million for conservation easements in wellhead protection areas. BWSR partners with Soil and Water Conservation Districts (SWCDs) to implement these conservation easement programs.

Projects paid for through the Clean Water Fund grants are scheduled to be completed during calendar years 2010-2012. Conservation easement projects may take up to three years to be completed.

Additionally, BWSR is overseeing \$1,500,000 in direct appropriations to the Anoka Conservation District and to Hennepin County, along with \$1,000,000 to the Minnesota Conservation Corp.

Because the specific conservation benefits are not reported until project implementation is complete and the accumulated improvements may not result in measurable water quality benefits for some time, this report will

focus on the process for awarding grants, the criteria that applicants were required to submit, and intermediate outcomes where applicable.

Representatives from the Minnesota state agencies receiving funding through the Clean Water Fund, including the Board of Water and Soil Resources, Department of Natural Resources and the Minnesota Pollution Control Agency, are collaborating on the Clean Water Legacy Effectiveness Tracking Project. The Project's goal is to develop a multi-agency clean water effectiveness tracking framework that will help clarify the connections between funds invested, actions taken, and clean water outcomes achieved.

Table 1: Summary of FY 2010 & 2011 Clean Water Fund Appropriation to BWSR

| Program | Allocation | | Description |
|---|------------|-----------|--|
| | FY10 | FY 11 | |
| Riparian buffer conservation easements | \$3.25M | \$3.69M** | Purchase and restore permanent conservation easements on riparian lands adjacent to public waters, except wetlands. Establish buffers of native vegetation that must be at least 50 feet where possible and no more than 100 feet. |
| Wellhead protection conservation easements | \$1.0M | \$1.43M** | Permanent Conservation Easements on wellhead protection areas under MS 103F.515 Subd. 2, paragraph (d). Must be in drinking water supply management areas designated as high or very high by the Commissioner of Health. |
| Runoff Reduction* | \$2.8M | \$3.39** | Grants to Watershed Districts (WDs) and Water Management Organizations (WMOs) for: 1) structural or vegetative practices that reduce storm water runoff from developed or disturbed lands or 2) to leverage federal funds for restoration, protection or enhancement of water quality in surface waters and to protect groundwater. |
| Clean Water Assistance* | \$3.0M | \$3.0M | Grants to WDs, WMOs, Counties and Soil and Water Conservation Districts (SWCDs) to keep water on the land and to protect, enhance, and restore water quality in lakes, rivers and streams and to protect groundwater and drinking water. |
| Shoreland Improvement* | \$1.5M | \$1.5M | Grants to be used to implement streambank, stream channel and shoreline protection and restoration grants for water quality. |
| Feedlot Water Quality Improvement Grants* | \$2.0M | \$2.0M | For feedlots under 300 animal units on riparian land, to include water quality assessment to determine the effectiveness in protecting, enhancing and restoring water quality in lakes, rivers and streams and in protecting groundwater from degradation. |
| Technical Assistance and Engineering | \$1.25M | \$1.5M | Targeted nonpoint restoration technical assistance and engineering that will be used to provide non-federal match for federal funds. |
| Subsurface Sewage Treatment System (SSTS) Program Enhancement* | \$1.6M | \$1.9 M | Grants to counties to implement SSTS programs including inventories, enforcement, development of databases, and systems to insure SSTS maintenance and of reporting program results to BWSR and MPCA and base grants. |
| Imminent health threat systems* | \$0.8M | \$1.0M | Grants to address imminent health threat and failing SSTS. |
| Conservation drainage* | \$0.33M | \$0.33M | Technical assistance and grants to establish conservation drainage program in consultation with the Drainage Work Group. Program consists of projects to retrofit existing drainage systems with water quality practices, evaluate outcomes, and provide outreach. (\$200,000 is available for grants.) |
| Anoka Conservation District | \$0.4M | \$0.6M | For 7-county metropolitan landscape restoration program for water quality and improvement projects. |
| Hennepin County | \$0.5M | - | Grant for riparian restoration and stream bank stabilization in the 10 primary stream systems in Hennepin County. County will work with WDs and WMOs to identify and prioritize projects. To the extent possible, county shall employ youth through Minnesota Conservation Corp and Tree Trust. Must be matched by non-state sources, including in-kind contributions. |
| Oversight, support, accountability reporting | \$0.275M | \$0.315M | To provide state oversight of local government units that have received Clean Water Fund grants so that they comply with accountability reporting, and to prepare an annual report detailing recipients and projects funded, anticipated water quality benefits, and other outcomes. |

* Competitive grant process

**Received additional funding during the 2010 Legislative Session

Clean Water Fund Conservation Easement Programs

The board adopted policy on Oct. 28, 2009 to establish payment rates and eligibility criteria for both easement programs that received Clean Water Fund appropriations, found in Minnesota Laws 2009, Chapter 172, Article 2. BWSR staff provided guidance to Soil and Water Conservation District (SWCD) staff statewide, and the SWCDs promoted the programs to landowners in their area.

Riparian Buffer Easement Program

BWSR received \$3.25 million in Fiscal Year 2010 and \$3.69 million in Fiscal Year 2011 to acquire permanent Reinvest In Minnesota (RIM) Reserve conservation easements on riparian lands adjacent to public waters, except wetlands. Up to 5 percent could be used to administer the program. Lands that were targeted were new or existing USDA Conservation Reserve Program (CRP) contracts with cropping history. Participating landowners receive a payment to retire land in agricultural production, and to establish permanent buffers of native vegetation that must be at least 50 feet where possible and no more than 100 feet. A continuous statewide signup began Dec. 1, 2009. All funds available for Fiscal Year 2010 – FY 2011 were allocated by Feb. 1, 2010 (see Table 2).

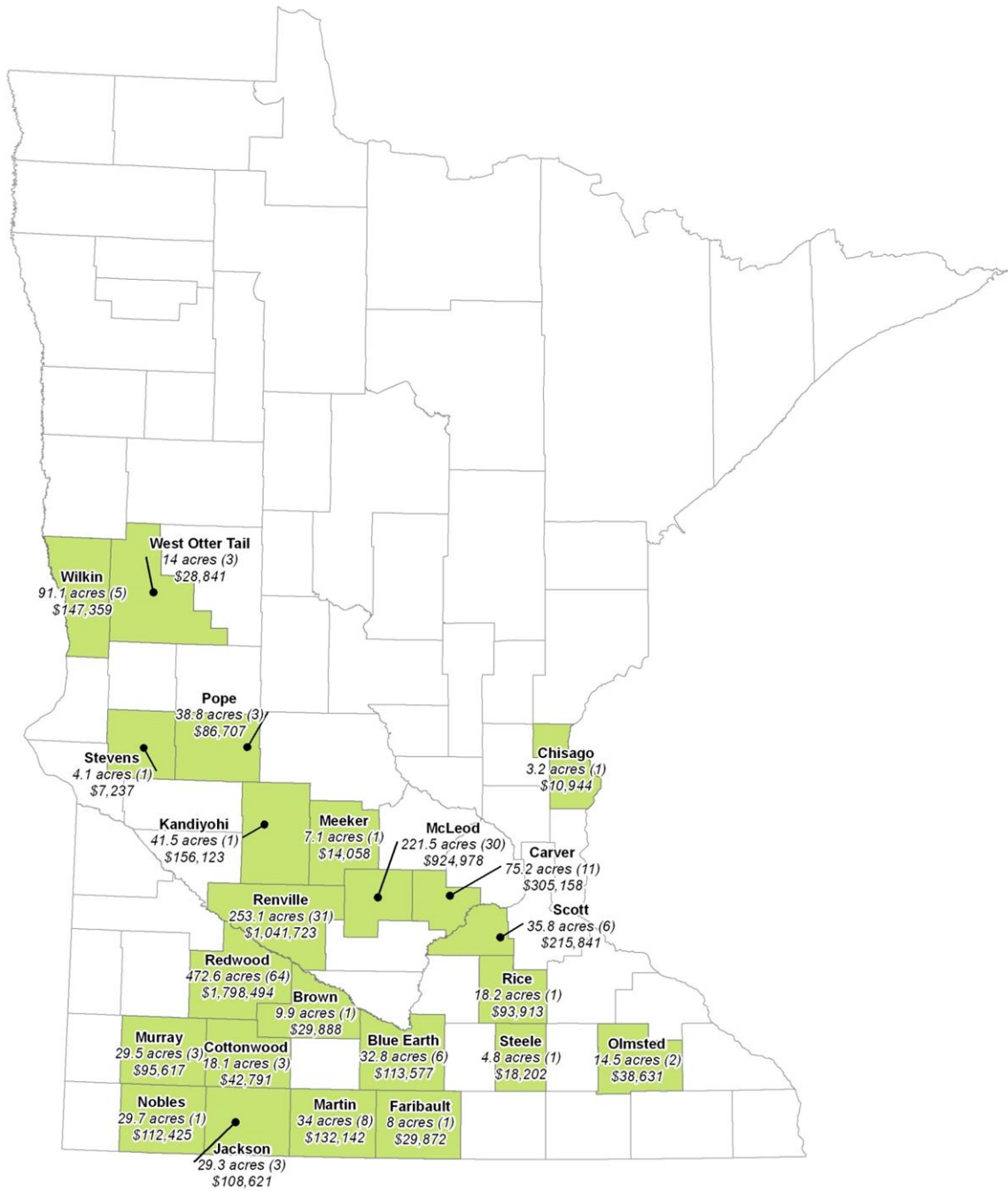
Outcomes and Effectiveness

Buffer strips of native vegetation will be established on the above easement acres, all of which are adjacent to public waters. The program was targeted to critical CRP acres, so that these areas would be permanently protected instead of enrolled in short-term easements. BWSR and SWCDs worked with private landowners to enroll 187 easements that will permanently protect more than 1,486 acres in 23 counties.

Table 2: Clean Water Fund FY10 and 11 Riparian Buffer Easements Enrolled

| SWCD | Easement Count | Easement Acres | Donated Acres | Easement Payments | Practice Payments | Total Payments |
|--|-------------------------|-----------------|---------------|--------------------|-------------------|--------------------|
| Blue Earth | 6 | 32.8 | 1 | 113,577 | * | 113,577 |
| Brown | 1 | 9.9 | 0 | 29,888 | * | 29,888 |
| Carver | 11 | 75.2 | 0 | 305,158 | * | 305,158 |
| Chisago | 1 | 3.2 | 0 | 10,944 | * | 10,944 |
| Cottonwood | 3 | 18.1 | 3.1 | 42,791 | * | 42,791 |
| Faribault | 1 | 8.0 | 0 | 29,872 | * | 29,872 |
| Jackson | 3 | 29.3 | 0 | 108,621 | * | 108,621 |
| Kandiyohi | 1 | 41.5 | 0 | 156,123 | * | 156,123 |
| Martin | 8 | 34.0 | 0 | 132,142 | * | 132,142 |
| McLeod | 30 | 221.5 | 0 | 924,978 | * | 924,978 |
| Meeker | 1 | 7.1 | 1.5 | 14,058 | * | 14,058 |
| Murray | 3 | 29.5 | 0 | 95,617 | * | 95,617 |
| Nobles | 1 | 29.7 | 0 | 112,425 | * | 112,425 |
| Olmsted | 2 | 14.5 | 1.2 | 38,631 | * | 38,631 |
| Otter Tail West | 3 | 14 | 0 | 28,841 | * | 28,841 |
| Pope | 3 | 38.8 | 0 | 86,707 | * | 86,707 |
| Redwood | 64 | 472.6 | 0 | 1,798,494 | * | 1,798,494 |
| Renville | 31 | 253.1 | 0 | 1,041,723 | * | 1,041,723 |
| Rice | 1 | 18.2 | 0 | 93,913 | * | 93,913 |
| Scott | 6 | 35.8 | 0 | 215,841 | * | 215,841 |
| Steele | 1 | 4.8 | 0 | 18,202 | * | 18,202 |
| Stevens | 1 | 4.1 | 0 | 7,237 | * | 7,237 |
| Wilkin | 5 | 91.1 | 0.7 | 147,359 | * | 147,359 |
| Subtotals | 187 | 1,486.80 | 7.5 | \$5,641,946 | | \$5,641,946 |
| RIM Services | \$2,000/easement | | | | | \$374,000 |
| *Practice payments are to be determined upon project completion | | | | TOTAL | | \$6,015,946 |

2011 Clean Water Fund RIM Reserve Riparian Buffer



Wellhead Protection Conservation Easement Program

BWSR received \$1 million for FY 2010 and \$1.3 million for FY 2011 for this program, which is focused on converting agricultural land to grasslands and wetlands in areas where the vulnerability of the drinking water supply management area, as defined by Minnesota Rules, part 4720.5100, subpart 13, is designated as high or very high by the Minnesota Department of Health (MDH). An easement must enroll a majority (at least 51 percent) of the land in such an area.

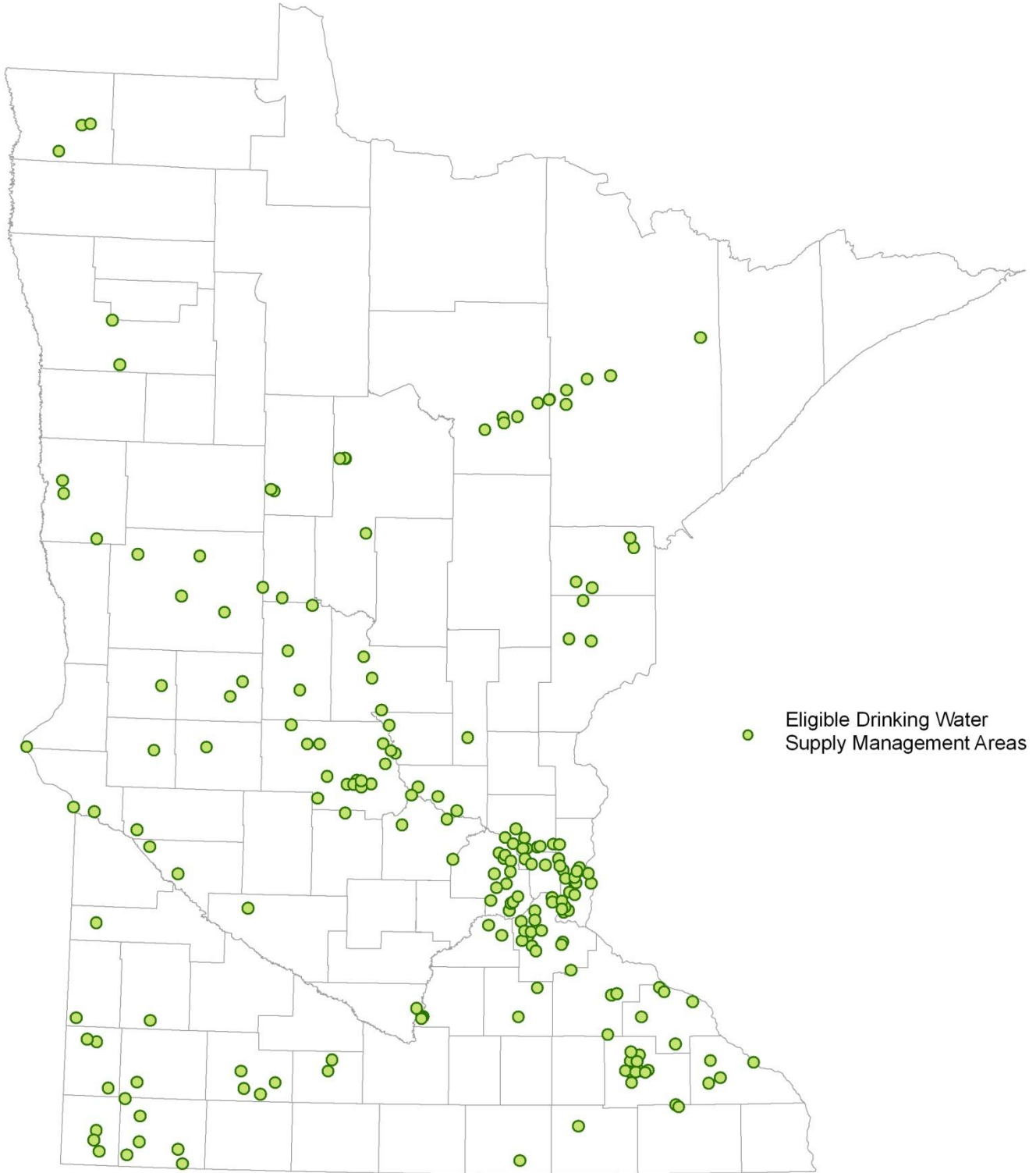
Lands that were targeted were new or existing USDA Conservation Reserve Program (CRP) contracts with cropping history. The easements funded under this section are permanent, whereas CRP easements are for 10-15 years. Participating landowners receive a payment to permanently retire land in agricultural production, and to establish buffers of native vegetation.

MDH, in consultation with the Minnesota Department of Agriculture, provided BWSR with a list of the most vulnerable wellhead protection areas. SWCDs in those areas are promoting this easement option directly to eligible landowners. As of January 2011, two easements in Rock County have been acquired under this program that will protect 101.4 acres. Easement payments for these two projects are \$440,843.

Anticipated benefits of wellhead protection conservation easements

Restoring wetlands and grasslands within wellhead protection areas improves water quality by providing a greater distance between drinking water sources and agricultural chemical use. Changing land use from agricultural production to restored grasslands and wetlands has produced dramatic, measurable improvements in water quality. According to MDH, the city of Edgerton experienced a 50 percent reduction in the nitrate levels of its drinking water after landowners enrolled 60 acres of land in the city's wellhead protection area into CRP (Source: "The Protector, Newsletter for Minnesota's Source Water Protection Program," Volume 12, Summer 2004). Because these easements are permanent as opposed to the short-term CRP easements, the protection of these environmentally sensitive lands will stay secure.

2011 Clean Water Fund *Target Wellhead Protection Areas*



Clean Water Fund Competitive Grant Program

In Fiscal Year 2011, with the exception of Feedlot Water Quality and SSTS Imminent Health Threat funds, BWSR administered a Competitive Grant Program to distribute available funds for programs indicated in Table 1. BWSR's funding authority for water management is derived from M.S. 103B.3369. Local government units (LGU) with state approved and locally adopted comprehensive local water management plans are eligible for financial assistance. The Competitive Grant Program also incorporated requirements of M.S. 114D.20, which directs the implementation of Clean Water Funds to be coordinated with existing authorities and program infrastructure. Those requirements are referenced in the Clean Water Fund Grants Policy adopted by the Board

(http://www.bwsr.state.mn.us/grants/2011_BWSR_CW_Funds_Policy.pdf) . Funding decisions were based on the best available scientific information, and the grants were directed to areas where clean water protection and restoration work is most needed and most effective. The Board approved this strategy on June 23, 2010.

The FY 2011 Competitive Grant application was open from August 4 through September 15. BWSR staff notified all eligible local government units of the application via email on June 30, July 30 and August 4, 2010. BWSR staff conducted nine information sessions across the state and on-line to review the grant programs. These sessions were held on July 26, 28, 29, 30 and August 3, 4, 5, 11, 17, 18, of 2010. In addition, a Frequently Asked Question document was created and posted on the BWSR website to provide updated information to all applicants.

Local government units throughout the state submitted 159 applications for these competitive grants, and the total amount requested was more than \$28 million. BWSR staff initially reviewed and assessed applications. This assessment resulted in the separation of applications into high – medium –low groupings using the criteria for evaluation identified in the Clean Water Fund Request for Proposals. Applications identified as high and medium were then scored by an interagency team consisting of staff from the Minnesota Department of Agriculture (MDA), the Department of Natural Resources (DNR), the Pollution Control Agency (MPCA), the Department of Health (MDH), and BWSR based on the following criteria (Table 3):

| Table 3: BWSR Competitive Clean Water Fund Grant Ranking Criteria | Maximum Points Possible |
|--|--------------------------------|
| The proposed project demonstrates a high potential of long-term success based on project organization and management structure, partner support and public involvement within the project area. | 15 |
| The outcomes expected upon completion of the project initiatives on the water resources are identified, including a description of the resulting primary and secondary public benefits such as pollution reduction, or groundwater or drinking water protection, hydrologic restoration, or aquatic habitat improvement. | 30 |
| The application has a set of specific initiatives that can be implemented soon after grant award. | 15 |
| The proposal is based on priority protection or restoration actions listed in or derived from an approved Comprehensive Local Water Management Plan or approved TMDL Implementation plan. | 30 |
| Proposed activities have the goal of protecting groundwater or drinking water. | 10 |
| Total | 100 |

All scores were combined and averaged to produce a numerical order of projects. Projects were funded based on their rank order and eligible grant category until available funds were expended. Ranked applications that targeted specific water resources or priority conservation practices but did not identify precise locations for installation of those practices received a maximum of 50 percent of requested funding to begin implementation and development of more specific project lists for future applications. Table 4 shows the breakdown of applications and funds awarded per grant program.

The BWSR Senior Management Team reviewed the recommendation provided by the interagency and BWSR staff teams on November 9, 2010. The BWSR Grants Program and Policy Committee reviewed the funding recommendation on November 17, 2010.

Table 4: Clean Water Fund Applications Funded per Grant Program

| Grant Program | Applications Funded | | Total Funds Awarded | |
|--------------------------------------|---------------------|------|---------------------|-------------|
| | FY10 | FY11 | FY10 | FY11 |
| Runoff Reduction | 12 | 17 | \$2,459,675 | \$3,147,800 |
| Clean Water Assistance | 22 | 26 | \$2,650,000 | \$3,228,286 |
| Shoreland Improvement | 8 | 13 | \$1,399,582 | \$1,325,417 |
| Imminent Health Threat Abatement | 10 | 21 | \$775,777 | \$971,223 |
| SSTS Program Enhancement | 14 | 7 | \$860,000 | \$370,573 |
| Conservation Drainage | 5 | 3 | \$200,000 | \$313,500 |
| Feedlot Water Quality Improvement | 13 | 14 | \$1,143,624 | \$2,436,888 |
| Technical assistance and engineering | 9 | 12 | \$921,814 | \$1,645,187 |

Feedlot Water Quality and SSTS Imminent Health Threat Grant Program

In Fiscal Year 2011, BWSR administered the Imminent Health Threat SSTS Abatement and Feedlot Water Quality funds separately from the competitive grant process. The amount available for Feedlot Water Quality Management projects included \$ 765,000 from the FY 2010 appropriation that was not requested during the FY10 Competitive Grant process. For these two funds, BWSR administered a signup grant program in which eligible projects identified specific locations, identified pollutant problems, and remediation activities could proceed quickly. Eligible projects received funding until the funds were depleted if the specific criteria were met. Table 5 shows eligibility and funding priorities for these programs. The application period for both grant programs was from July 1-August 15, 2010 and for Feedlot Water Quality Grants from August 16-September 30, 2010. The BWSR Senior Management Team reviewed the Feedlot Water Quality Improvement and SSTS Imminent Health Threat Grant program recommendations on May 26, 2010. The Grants Program and Policy Committee reviewed the programs proposals developed by staff on June 8, 2010. The Board approved the final funding recommendations for the FY2011 Feedlot Water Quality and SSTS Imminent Health Threat Grants at the June 23, 2010 meeting.

Table 5: Funding Eligibility Requirements and Priorities for the Feedlot Water Quality and SSTS Imminent Health Threat Grant Program

| Feedlot Water Quality Improvement Eligibility Requirements | Feedlot Water Quality Improvement Funding Priorities |
|---|---|
| Less than 300 animal units | Feedlots having an Open Lot Agreement |
| Located in an impaired watershed or on riparian land | The date applications were received |
| MinnFARM rating of 1 or more | Projects that are for feedlots having a Livestock Environmental Quality Assurance (LEQA) or other sanctioned stewardship plan |
| Provide 25% of the project cost | |
| Have a specific project location identified | |
| SSTS Imminent Health Threat Eligibility Requirements | SSTS Imminent Health Threat Funding Priorities |
| Be identified as imminent health threat or failing | The date applications were received |
| Project owners must meet low income thresholds | SSTSs identified as an imminent health threat and were identified via an inventory |
| Have a specific project location identified | SSTSs identified as an imminent health threat and were not identified via an inventory |
| | SSTSs identified as failing |
| | Availability and applicability of other sources of funding |

Shifting FY2011 Allocations

After the application periods for the Feedlot Water Quality, Imminent Health Threat Abatement grants and the Competitive Grants, \$267,027 of Feedlot Water Quality Grant funds and \$697,253 of SSTS Program Enhancement Grant funds remained unallocated. BWSR has authority under Laws of Minnesota 2009, Chapter 172, Section 6 to shift funds to "leverage federal or other non-state funds or to address oversight responsibilities or high priority needs identified in local water management plans." There were \$385,994 in eligible applications received during the SSTS Imminent Health Threat Abatement sign-up period in August that

were not funded due to insufficient funds; and, there were eligible applications received under the CWF Competitive Grants Program during September that were not funded due to insufficient funds. BWSR Senior Management Team met on November 9, 2010 and the Grants Program and Policy Committee met on November 17, 2010 to review options for utilizing the funds remaining in the two specific categories from the FY 2011 appropriation. The Grants Program and Policy Committee recommended to the full BWSR Board that \$385,994 in BWSR SSTS Inventory and Program Enhancement Grant Program funds be shifted to those eligible applications received during the SSTS Imminent Health Threat Abatement Sign-up period and, the remaining \$267,027 in CWF Feedlot Water Quality funds and \$311,259 of BWSR CWF SSTS Program Enhancement funds be shifted to eligible, ranked applications received during the CWF competitive application period.

Outcomes and effectiveness

The Board approved the final funding recommendations for the FY2011 Clean Water Fund Competitive Grants on December 15, 2010. Of the 159 applications received, 56 were recommended for funding. All applicants have been notified and grant agreements are being developed and finalized. Detailed work plans that become a component of the grant agreement will be developed by successful applicants in conjunction with BWSR staff. The Board specified a deadline for completion and approval of the work plans of March 31, 2011. Once work plans are approved and the grant agreements executed, projects will begin implementation in the spring of 2011.

Maps detailing FY 2011 project locations and some project examples are shown below. More detail regarding FY 2011 projects can be found in Appendix A. For maps detailing FY 2010 projects, go to: http://www.bwsr.state.mn.us/cleanwaterfund/Annual_Report-FY2010.pdf. and <http://www.bwsr.state.mn.us/cleanwaterfund/stories/> .

BWSR required grant applicants to estimate anticipated intermediate outcomes for proposed projects during the application process. Applicants used pollution reduction calculators, such as the Revised Universal Soil Loss Equation (RUSLE and RUSLE2), and similar tools for measuring effectiveness of keeping water runoff on the land through infiltration, diversion or collection (Appendix B). In FY 2010 and FY 2011, 98 grant applications have been funded through the BWSR Competitive Grant process. 26 are for water bodies listed as impaired that have a completed Total Maximum Daily Load study (TMDL); 47 are for water bodies listed as impaired that have not completed a TMDL (32 of the 47 do have a TMDL study in progress); 25 are for water quality protection for water bodies that are not listed as impaired and are currently meeting state water quality standards.

For specific project outcomes for SSTS Abatement and Feedlot Water Quality Management Grants, the Legislature required BWSR to compare the aggregated number of specific BMPs installed with Clean Water Fund grant dollars to the estimated number of projects to be addressed state-wide. For the abatement of imminent health threat SSTS's in Minnesota, the Minnesota Pollution Control Agency (MPCA), in their 2009 SSTS Annual Legislative Report, developed the following state-wide estimate:

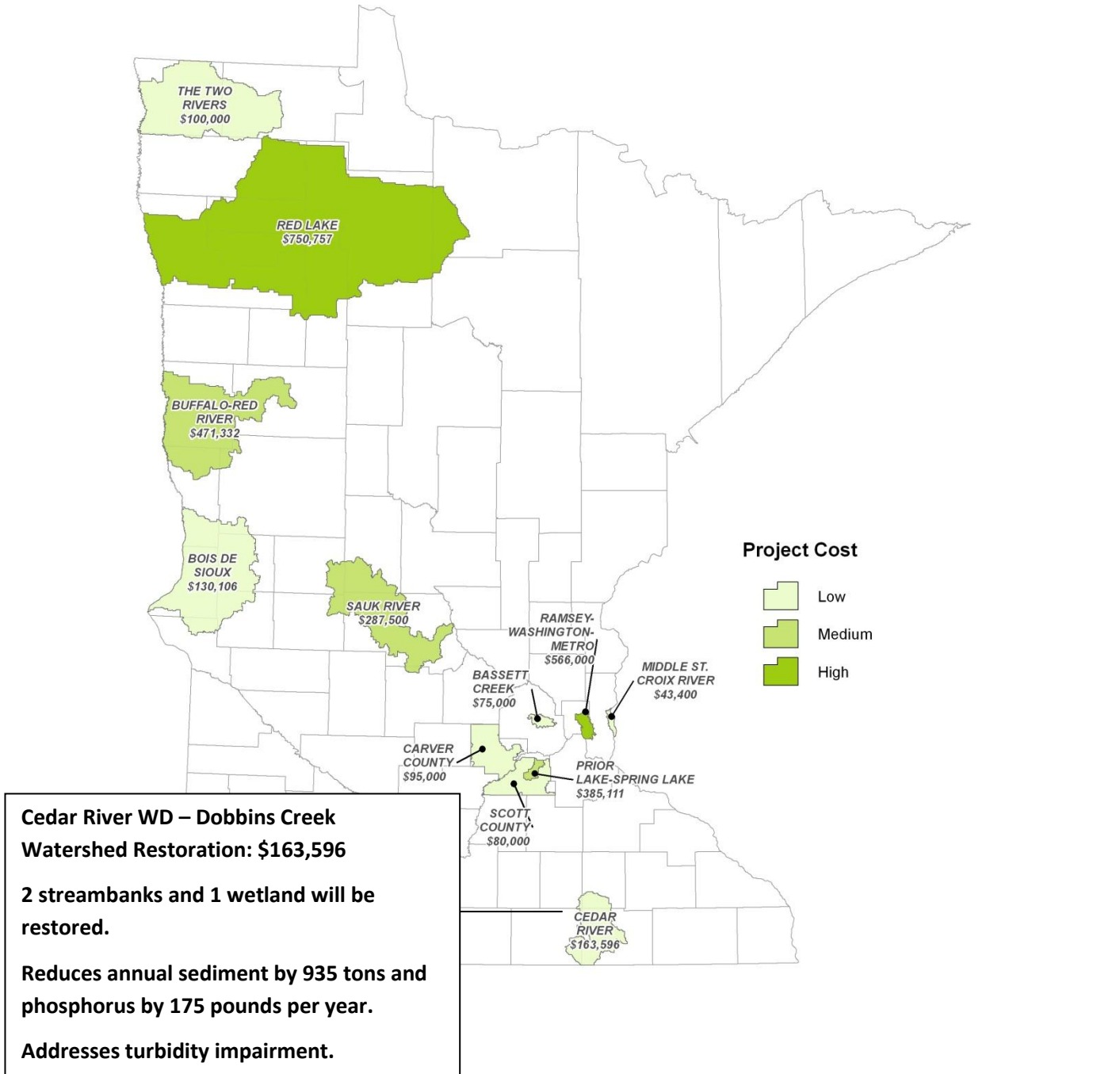
- Number of onsite SSTS in MN = 521,000
- Estimated 'failing' SSTS = 113,000 (22%)
- Estimated Imminent Health Threats= 35,300 (7%)
- Estimated total failing and Imminent = 148,000 (29%)
- Source: <http://www.pca.state.mn.us/index.php/about-mPCA/legislative-issues/legislative-reports/legislative-reports.html>

Through the efforts of the FY10-11 BWSR SSTS Abatement Grant program, 246 imminent health threat SSTS will be fixed (for a breakdown by county, see Appendix C). Of note, BWSR funds for SSTS Abatement were directed towards low income residents. Hence, more analysis would be needed to determine what portion of the estimated 35,300 imminent health threat SSTS state-wide would fall into the low income category. In addition to the SSTS imminent health threat funds, SSTS Program Enhancement Funds have resulted in 40-plus lakes and five river stretches that will have septic system and SSTS Database development or upgrade in 17 counties and one city.

In 2008, the BWSR updated the Feedlot Financial Needs Study that provides estimates of the number of feedlots that are required to be in compliance with the Minnesota State Feedlot Rules (Chapter 7050) and the estimated associated costs for those feedlots to come into compliance (http://www.bwsr.state.mn.us/publications/Feedlot_Financial_Needs-2008.pdf). This study estimates that approximately 5,050 feedlot enterprises fewer than 300 animal units in size need to come into compliance with State feedlot rules. This study estimates that approximately 27% of feedlot enterprises are non-compliant. The study did not differentiate between feedlots located within or outside of any riparian shore land zone. 2011 feedlot registration data from the Minnesota Pollution Control Agency was also reviewed. Using the same 27% non-compliance rate, it is estimated that 3,882 feedlot enterprises fewer than 300 animal units are non-compliant.

Through the BWSR Feedlot Water Quality Management grant funds from the Clean Water fund in FY10-11, a total of 89 feedlots that contain fewer than 300 animal units and located within riparian shore land areas will be fixed. Appendix D provides a breakdown of feedlots fixed by county in comparison to recent 2011 MPCA registered feedlot data from counties participating in the MPCA delegated feedlot program.

2011 Clean Water Fund Runoff Reduction

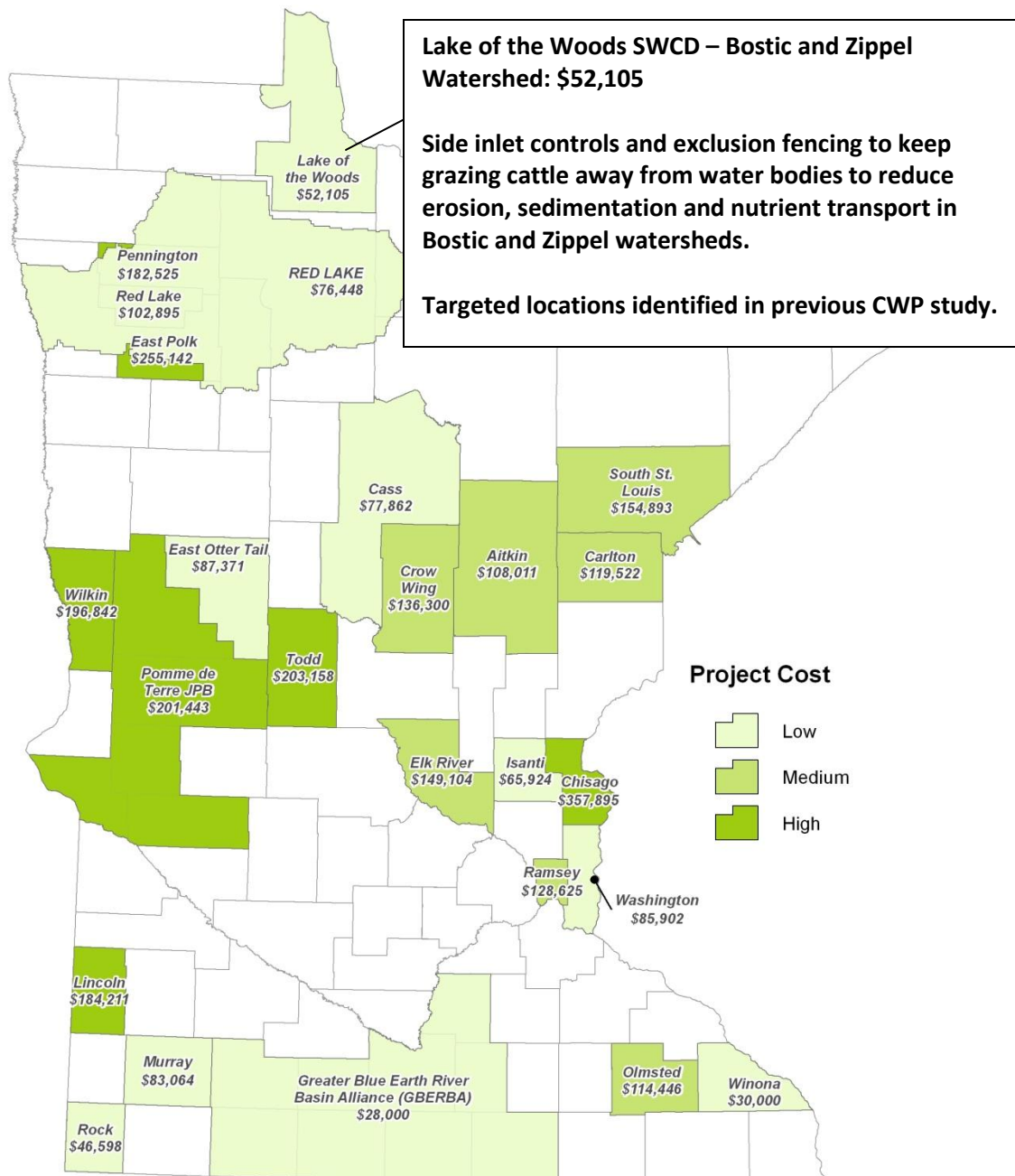


Runoff Reduction Grants:

Total Funds Awarded \$3,147,800

Only Watershed Districts and Water Management Organization were eligible to apply for these funds. Funds are to be used for structural and vegetative practices to reduce stormwater runoff and to retain water on the land to reduce the movement of sediment, nutrients and pollutants.

2011 Clean Water Fund Clean Water Assistance

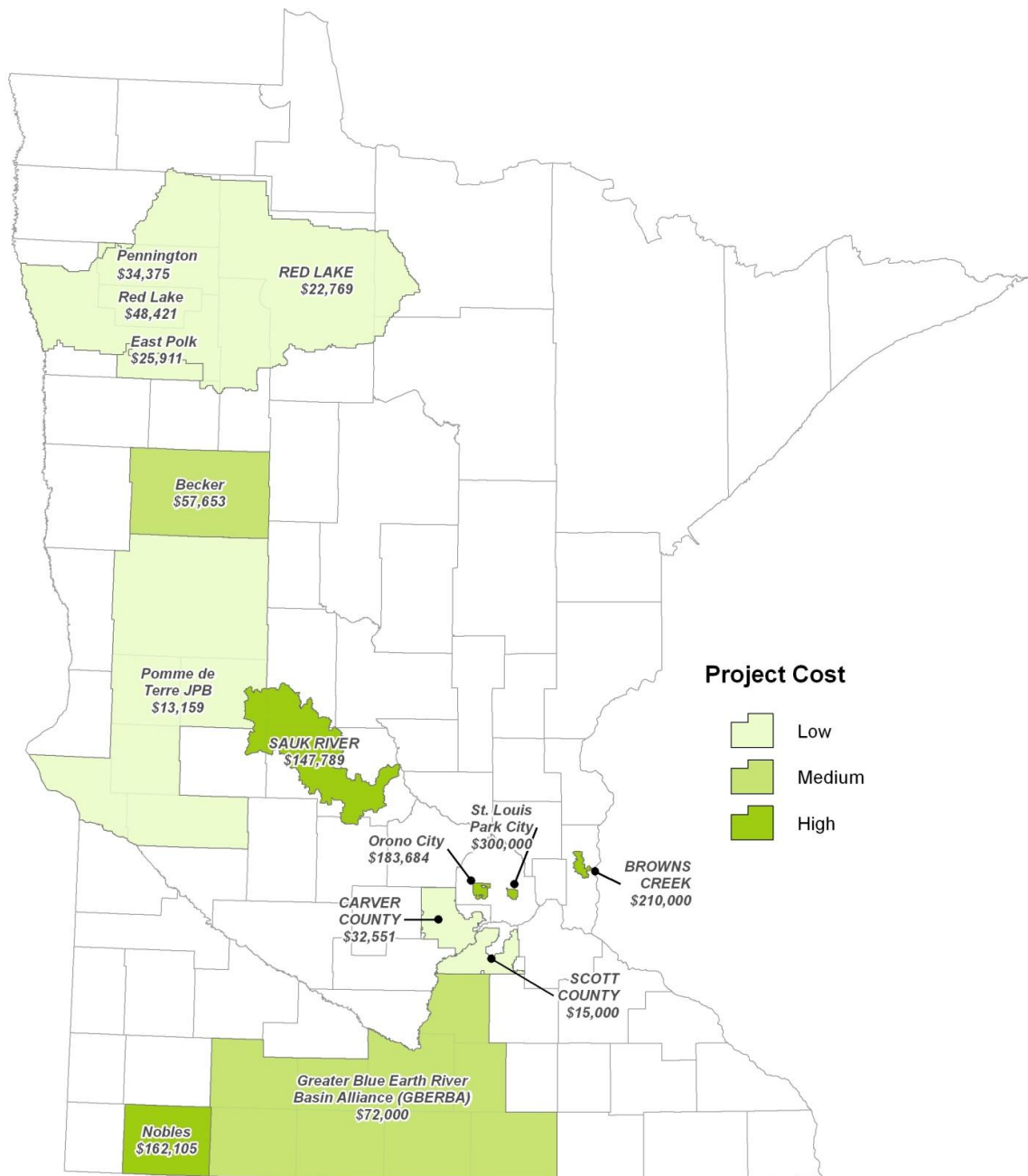


Clean Water Assistance Grants:

Total Funds Awarded \$3,228,286

WDs, WMOs, Soil and Water Conservation Districts and Counties were eligible to apply for these funds. Funds are to be used to keep water on the land, and to protect, enhance and restore water quality in lakes, rivers and streams and to protect groundwater and drinking

2011 Clean Water Fund Shoreland Improvement



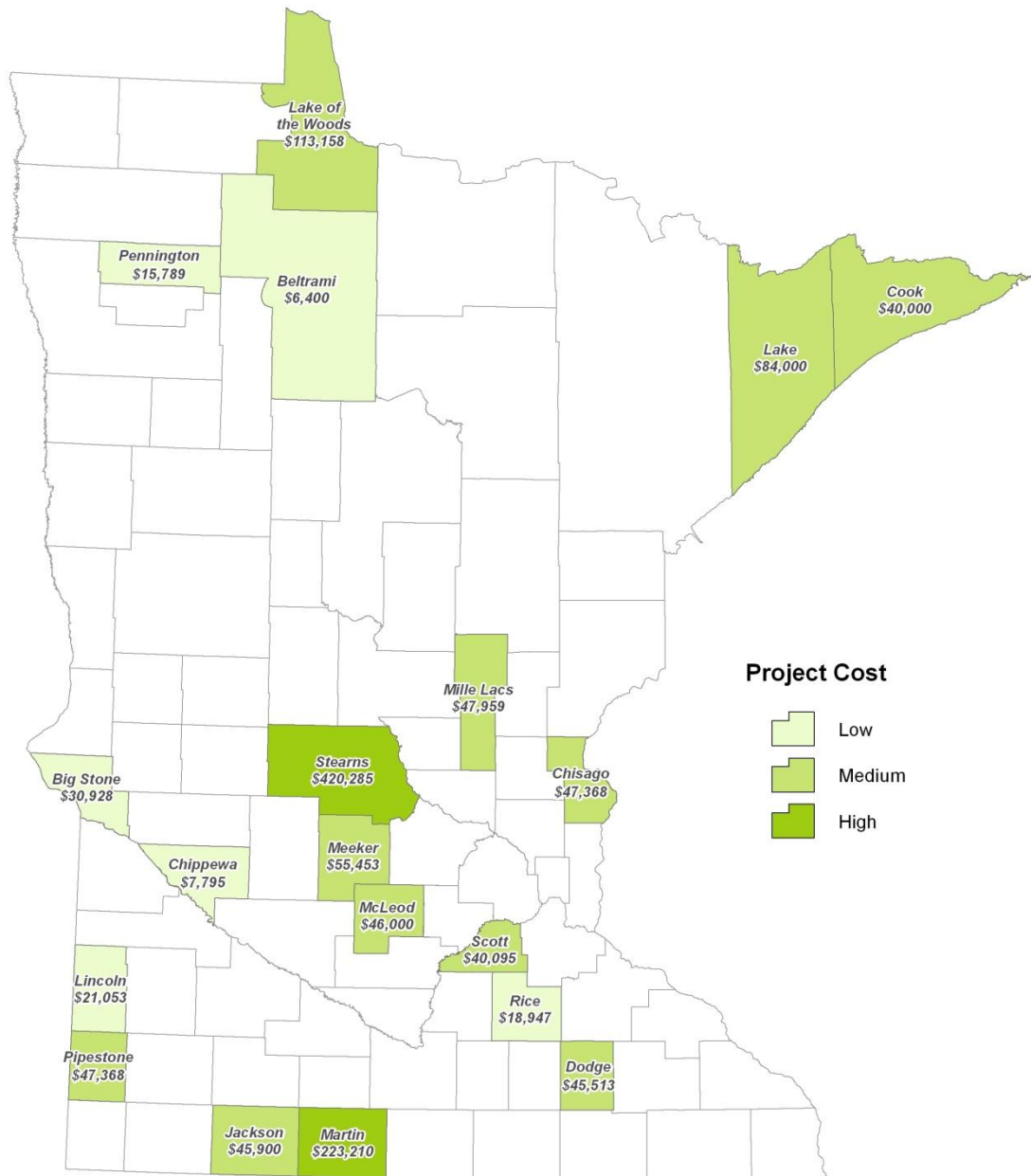
Shoreland Improvement Grants:

Total Funds Awarded \$1,325,417

Shoreland Improvement Grants are to be used to implement streambank, stream channel and shoreline protection and restoration grants for water quality.

2011 Clean Water Fund

SSTS Imminent Health Threat Abatement

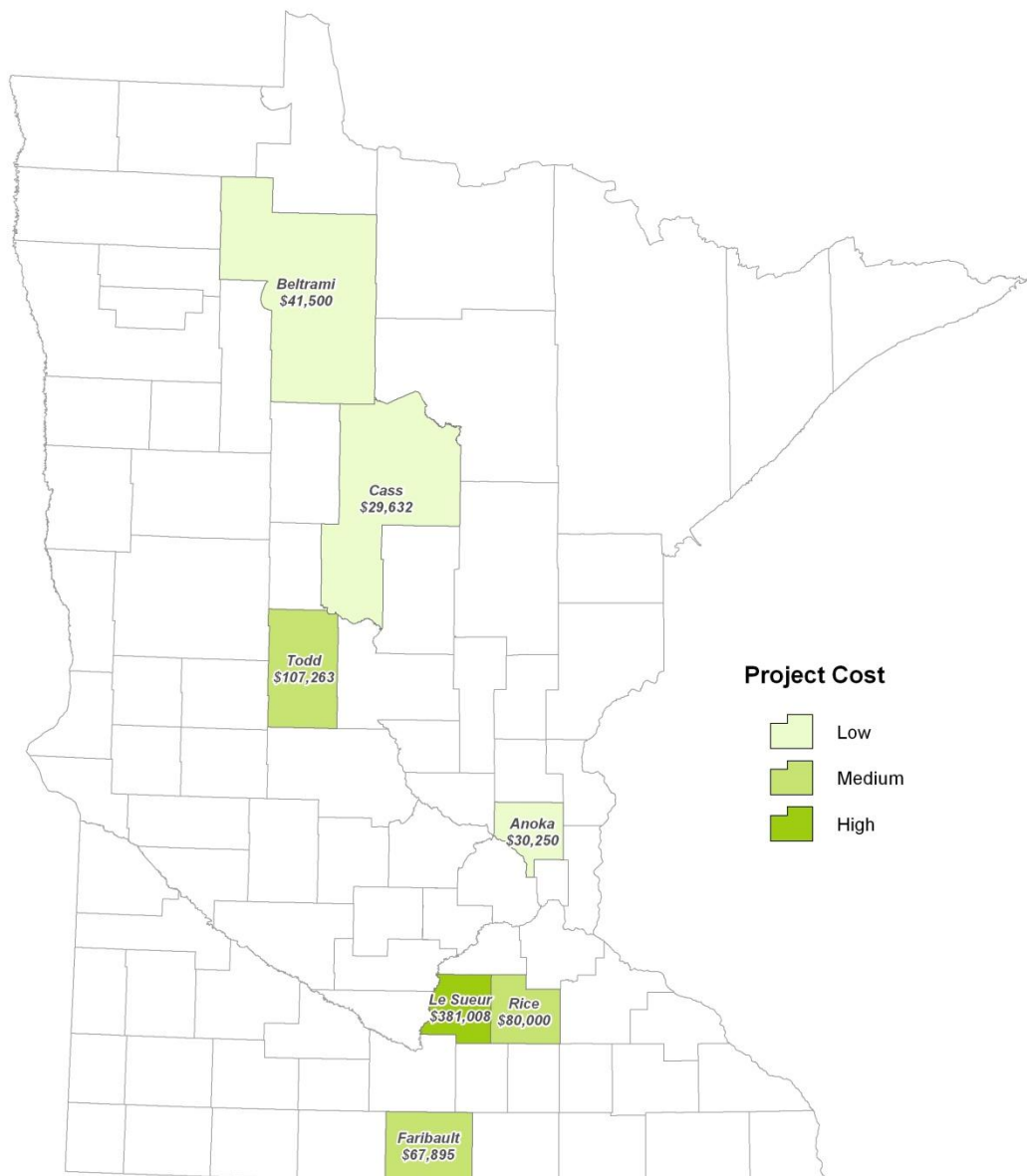


SSTS Imminent Health Threat Grants:

Total Funds Awarded \$971,223

Subsurface Sewage Treatment System (SSTS) Imminent Health Threat grants address failing septic systems that have direct impacts to critical water resources of concern. Applications that were funded identify landowners with problem septic systems and provide financial assistance to low-income homeowners to upgrade their systems.

2011 Clean Water Fund SSTS Inventory & Program Enhancement

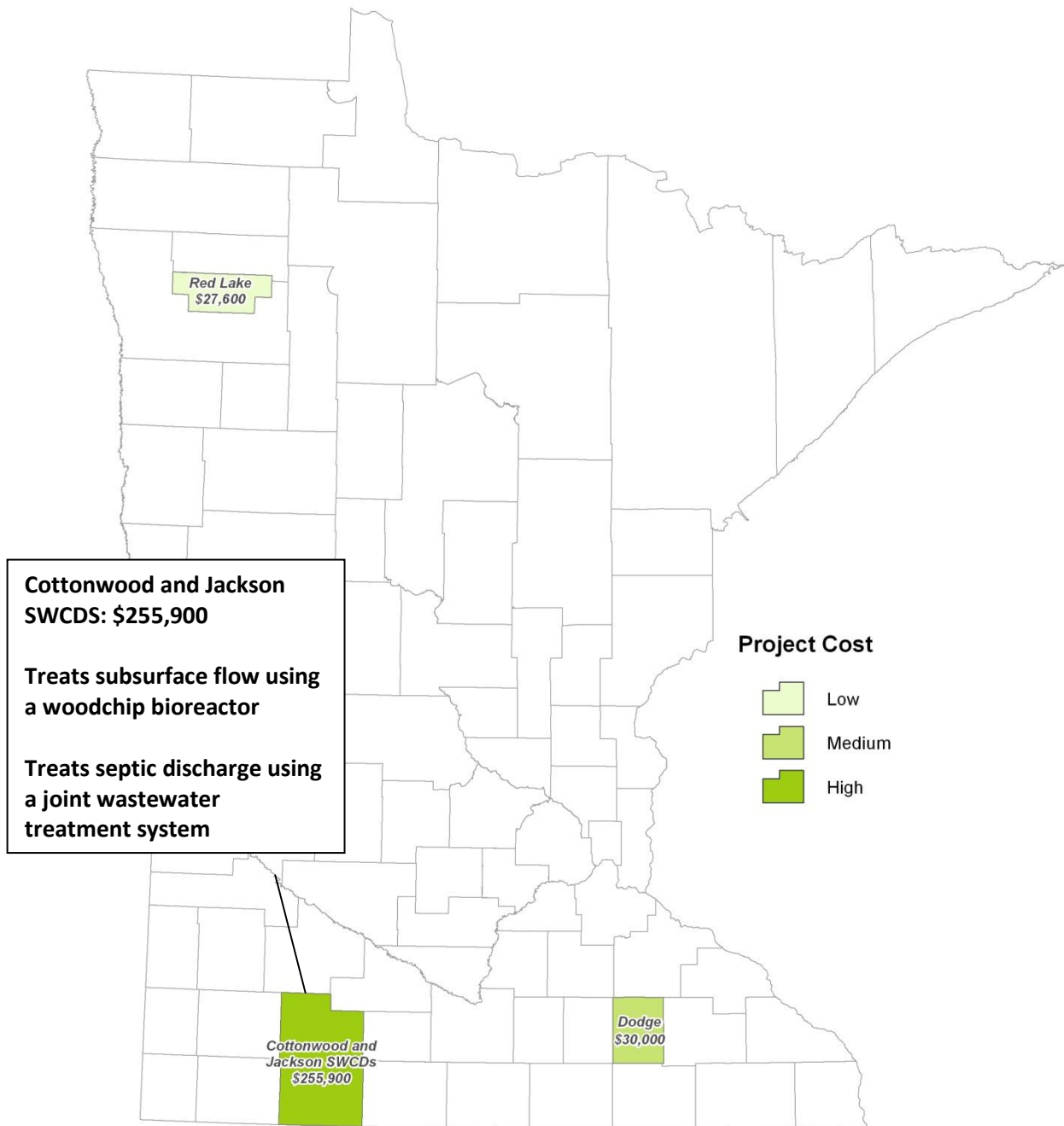


SSTS Program Enhancement Grants:

Total Funds Awarded \$370,573

Counties are eligible for these grants, abiding by MS 115.55 Sec. 2, to implement SSTS programs including inventories, enforcement, databases and systems to insure SSTS maintenance reporting programs. Counties must abide by Minnesota Rules 7080 and their locally adopted SSTS ordinance when implementing grants from this appropriation. Seven applications totaling \$370,573 were recommended for funding. Additionally, \$870,000 in grants were awarded to counties through MPCA for SSTS programs. These grants are part of the BWSR Natural Resources Block Grant program.

2011 Clean Water Fund Conservation Drainage

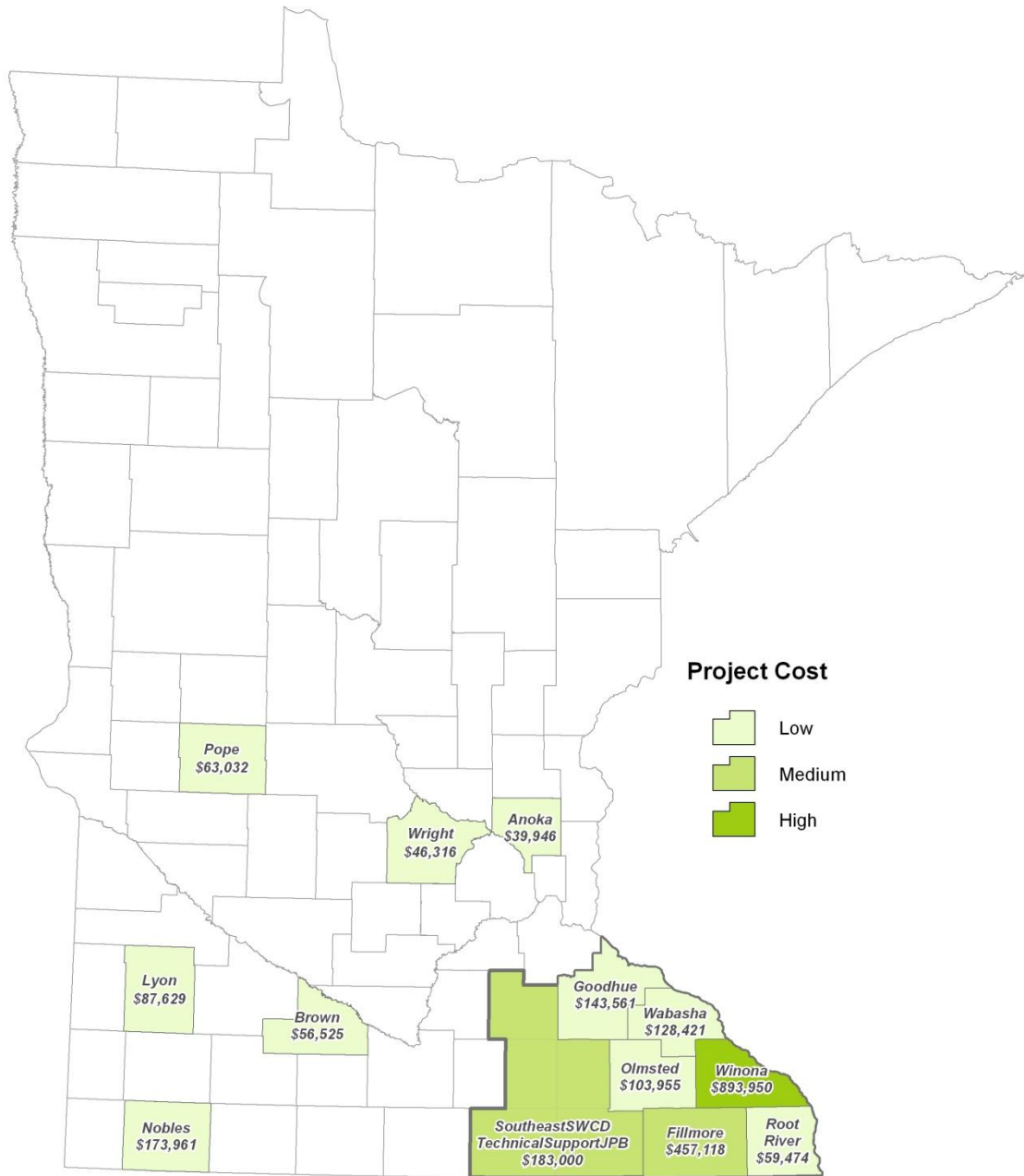


Conservation Drainage:

Total Funds Awarded \$313,500

Pilot projects to retrofit existing drainage systems with water quality improvement practices will receive \$313,500 in Conservation Drainage Grants.

2011 Clean Water Fund Feedlot Water Quality

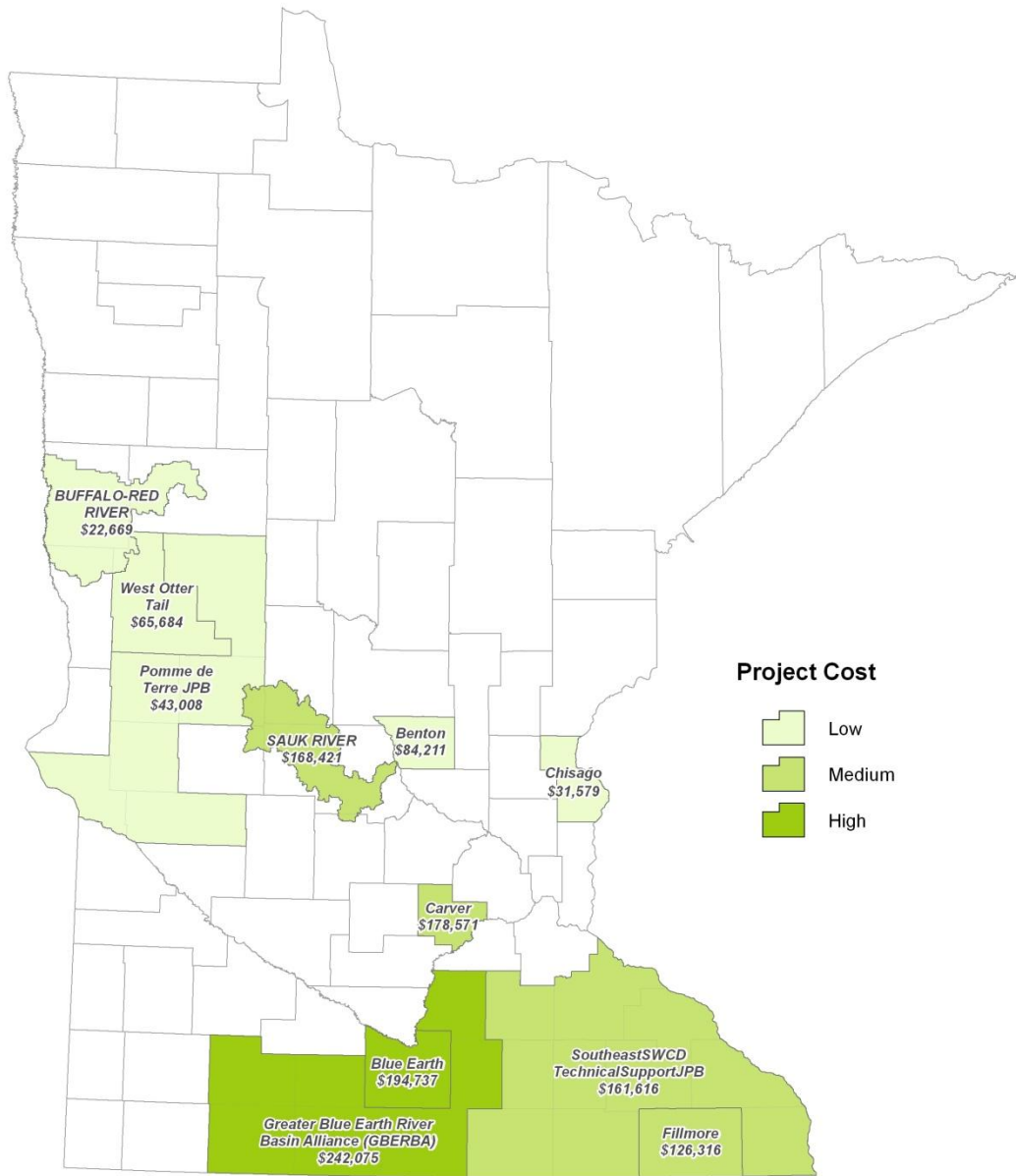


Feedlot Water Quality Management Grants:

Total Funds Awarded \$2,436,888

Feedlot Water Quality Management Grants provide financial assistance to fix existing feedlot pollution problems from feedlot operations less than 300 animal units in size and located in a riparian area or impaired waterway.

2011 Clean Water Fund Restoration Technical Assistance

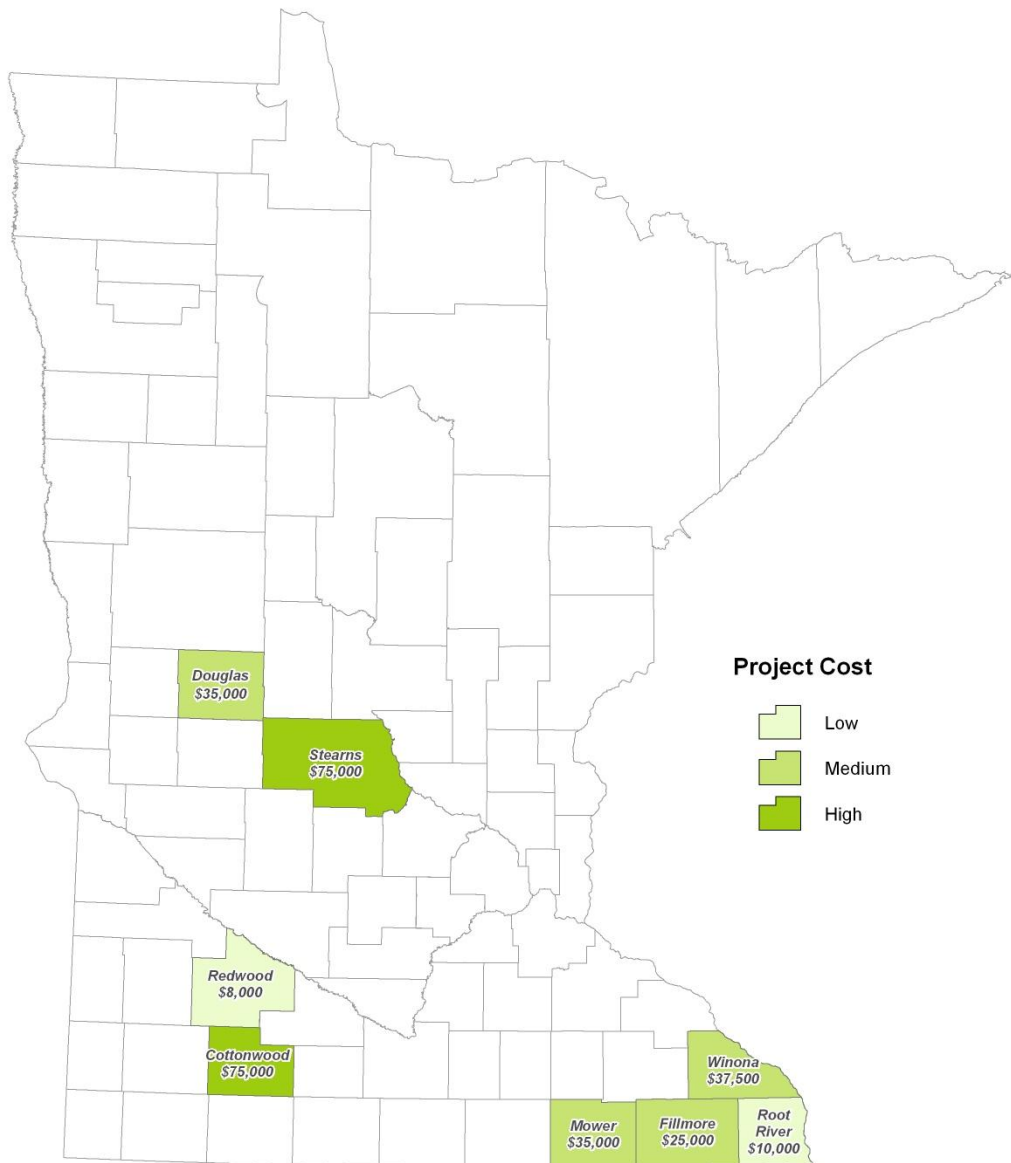


Technical Assistance & Engineering Grants:

Total Funds Awarded \$1,318,887

Targeted Nonpoint Restoration Technical Assistance and Engineering will enable local government units to build capacity and provided needed technical assistance.

2011 Clean Water Fund Upper Mississippi River Basin Initiative



Technical Assistance & Engineering Grants: Mississippi River Basin Initiative Total Funds Awarded: \$326,300

\$326,300 of the Targeted Nonpoint Restoration Technical Assistance and Engineering will enable local government units to leverage federal dollars for the Mississippi River Basin Initiative.

Non-Competitive BWSR Clean Water Fund Expenditures

All counties are required to pass ordinances countywide regulating SSTS countywide. Under Minnesota Laws 2009, Chapter 172, Section 6(j), BWSR may award base grants to counties for SSTS programs. BWSR allocated \$739,587 equally in both fiscal year 2010 and 2011 to counties for SSTS ordinance administration.

Directed BWSR Clean Water Fund Expenditures

BWSR received direct legislative appropriations for the Anoka Conservation District and for Hennepin County in FY 2010. BWSR entered into grant agreements with both entities as provided by these appropriations under Minnesota Laws 2009, Chapter 172, Section 6. Work plans were developed and integrated with the executed grant agreements. Implementation of the work plan activities is ongoing.

Anoka Conservation District

A direct appropriation of \$400,000 in FY 2010 and \$600,000 in FY2011 for the Anoka Conservation District (ACD) is for the metropolitan landscape restoration program for water quality and improvement projects in the seven-county metro area.

The goal of the program is to improve water quality in locally identified high-priority water resources. ACD is working with other metro-area local government units to fully utilize program cost-share funds and to leverage local funds to install the most cost-effective practices available to treat stormwater runoff. Assessments developed as part of this program will include identifying site-specific best management practices for pollutant and stormwater volume load reduction estimates, installation cost estimates, and long-term operation and maintenance cost estimates.

Hennepin County

The law also included a direct appropriation of \$500,000 in FY2010 to Hennepin County for riparian restoration and stream bank stabilization in the county's 10 primary stream systems. The money is funding projects to protect, enhance and help restore the water quality of five streams and downstream receiving waters.

- Bassett Creek
- Plymouth Creek
- Nine Mile Creek

- Riley Creek
- Elm Creek

Conservation Corps of Minnesota and Iowa

BWSR is required to contract with the Conservation Corps of Minnesota and Iowa (formerly Minnesota Conservation Corps), or CCMI, for installation of conservation practices benefitting water quality for at least \$500,000 in each year of the 2010-11 biennium. The Board approved reserving the following funds from Table 1 to comply with this appropriation:

\$200,000 from the Runoff Reduction Grants

\$200,000 from the Clean Water Assistance Grants

\$100,000 from the Shoreland Improvement Grants

A list of 2010 CWF funded projects can be found at the following webpage:

<http://www.conservationcorps.org/content/clean-water-funding-opportunity#work>

As part of the process, BWSR staff has worked with the CCMI to ensure the following procedures are followed:

- Eligible local governments have an initial 30-day application period.
- CCMI has 30 days to review proposals and make a list of projects, consistent with the Clean Water Fund appropriation (Laws of Minnesota, Chapter 172, Section 6).
- CCMI sends the list of projects to the appropriate BWSR Clean Water Specialist for their review and approval before commitments are made to applicants. This will be accomplished within the 30-day CCMI review period.
- After initial allocations, any remaining funds are available on a first-come, first-served basis by any eligible local government.
- CCMI will report financial information on the use of state funds, and the local government will report outcome and match information in eLINK.

BWSR Administration of Clean Water Fund Expenditures

The Board will be using existing authorities, polices, and staff, along with the processes outlined previously, to implement Clean Water Fund programmatic activities. The Board will be utilizing the eLINK4WEB reporting program to track all Clean Water Fund grant-related projects.

The goal of the Clean Water Funding directed to BWSR is to reduce non-point source pollution by providing Clean Water Fund dollars to local government units for on-the-ground activities, many of them installed on private lands that will result in improved and protected surface and ground water. Clean Water Funding appropriated to BWSR also will provide oversight of the local government units that receive these dollars to insure accountability and transparency for the public by reporting the outcomes of these dollars. BWSR received a total of \$816,000 (\$275,000 in Clean Water Program Oversight and \$541,000 in Clean Water Program Administration) in FY 2010 and a total of \$889,000 (\$315,000 in Clean Water Program Oversight and \$574,000 in Clean Water Program Administration) in FY 2011 to provide oversight and administration of Clean Water Fund dollars. BWSR has funded three full-time positions charged with getting protection and TMDL-derived restoration strategies adopted into local water plans, directing \$30 million of grant funds to priority areas and activities, and aligning administrative procedures to optimize leveraging of non-state funds with low transaction costs. In our efforts to document results and increase technical capacity for the local delivery system, a training program coordinator position has been established. Portions of two other technical staff positions with duties related to reporting and outcomes are being funded with these dollars. As appropriations for non-point restoration and protection continue to ramp up, BWSR funding for additional full-time staff may be necessary to insure that local implementation produces real-world outcomes.

Appendix A

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|--------------|--|---|---|---------------------|---------------------|
| Multi-County | SE SWCD Technical Support Joint Powers Board | Nutrient Management in the Lower Mississippi River Watershed | Two nutrient management specialists will assist landowners in an eleven county area with writing nutrient management plans and implementing BMP's for manure and fertilizer use. | \$161,616 (RTA) | \$161,616 (RTA) |
| Ramsey | Ramsey Conservation District | Protecting Ramsey County's Drinking Water Supply Management Areas | This project will target the sealing of abandoned and unused wells within groundwater recharge zones of municipal water supply wells. | \$188,947 (CWA) | \$128,625 (CWA) |
| Multi-County | Greater Blue Earth River Basin Alliance | Blue Earth River Basin Clean Water Fund Positions | This project will help fund and support 4 positions assisting landowners and local units of government within the Greater Blue Earth River basin. The positions include: nutrient management specialist, conservation agronomist, urban outreach specialist, and a watershed technician for the Cobb River sub-watershed. | \$242,075 (RTA) | \$242,075 (RTA) |
| Red Lake | Red Lake Watershed District | Grade Stabilization for Reduction of Sedimentation in the Thief River | This project will result in the installation of six grade stabilization structures, side water inlets, and stream bank stabilization in the lower 2.5 miles of CD20. | \$187,974 (RR/SL) | \$187,974 (RR/SL) |
| Lincoln | Lincoln SWCD | Verdi Wellhead Protection Area Project - 2011 | This project will reduce nitrate levels in the Verdi well field drinking water supply by providing landowners educational information and incentives by developing nutrient management plans, utilizing variable rate technology, utilizing nitrogen stabilizers/nitrogen efficiency products, and installing targeted filter strips. | \$184,211 (CWA) | \$184,211 (CWA) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|---------------------------|--|---|----------------------------|----------------------------|
| Fillmore | Fillmore SWCD | Grazing Management Initiative for the Root, Whitewater and Adjacent Watersheds | A Grazing Management Specialist in the Root and Whitewater watersheds will provide technical assistance for developing prescribed grazing plans and implementing grazing practices through EQIP and other programs. | \$126,316 (RTA) | \$126,316 (RTA) |
| Rock | Rock County SWCD/Land Mgt | Rock River Turbidity and Fecal Coliform Reduction | This project will stabilize 1600' of eroding stream bank and also reduce storm water runoff with the installation of 3 rain gardens within the city of Luverne. | \$46,598 (CWA) | \$46,598 (CWA) |
| Red Lake | Red Lake County SWCD | Accelerated Erosion Control Projects in the Red Lake River Watershed | This project will reduce sediment from high priority sites by installing two grassed waterways, two grade stabilization structures and stabilizing, a stream bank. | \$102,895 (CWA) | \$102,895 (CWA) |
| Benton | Benton SWCD | Little Rock Impaired Waters Kickoff | This project will accelerate the adoption of high priority BMP's in the Little Rock Lake and Creek watersheds. Efforts will include a new watershed wide irrigation water management program that is intended to be funded by irrigators by the end of the grant program. | \$103,745 (RTA/SL) | \$84,211 (RTA) |
| Nobles | Nobles SWCD | Langseth Family (Lake Ocheda) Shoreline Improvement Project | This project will improve a 1600 foot lake shoreline resulting in improved water quality, fishery and upland habitat, historical preservation and improved drinking water supplies in Lake Ocheda. | \$162,105 (SL) | \$162,105 (SL) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|---|---|--|----------------------------|----------------------------|
| Wilkin | Wilkin Soil and Water Conservation District | Lower Otter Tail River Sediment Reduction Project Phase IV | This project will install water control structures, side-inlets, and buffer strips into county ditch systems. Additionally, these practices will provide significant flood control benefits by storing water on the land. | \$196,842 (CWA) | \$196,842 (CWA) |
| Carver | Carver County | Carver County Fecal Coliform Implementation IV | Carver County has been targeting sub-watersheds of Carver, Bevens, and Silver Creeks. This application will continue funding for staff and programs that are currently set to expire in June, 2011 | \$178,571 (RTA) | \$178,571 (RTA) |
| Winona | Winona County | Winona County Well Sealing Cost share Project | This project will be used for sealing wells in a targeted area in effort to prevent groundwater contamination. | \$30,000 (CWA) | \$30,000 (CWA) |
| Olmsted | Olmsted Soil and Water Conservation District | Protecting Groundwater by Assisting Oronoco Residents in Well Sealing | The City of Oronoco is nearing completion of its municipal water system. This project will provide cost-share to residents connecting to the Oronoco Water System that have unused or abandoned wells that need to be sealed to protect groundwater. | \$128,866 (CWA) | \$114,446 (CWA) |
| Mower | Cedar River Watershed District | Dobbins Creek Watershed Restoration | This project will implement activities in the 2009 Ag Watershed Restoration study funded by BWSR. Practices to be installed include: a wetland restoration and stream stabilizations that will trap sediments and stabilize stream banks in the Dobbins Creek Watershed. | \$163,596 (RR/SL) | \$163,596 (RR) |
| Hennepin | Bassett Creek Watershed Management Commission | Wirth Lake Outlet Modification Project | This project is the only project listed in the Wirth Lake TMDL implementation plan. By preventing backflow from Bassett Creek, the Wirth Lake outlet modification will reduce the TP load to the lake. | \$75,000 (CWA) | \$75,000 (RR) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|--|--|---|----------------------------|----------------------------|
| Grant | Pomme De Terre River Association | Pomme de Terre River Watershed Best Management Practice (BMP) Initiative | This is a five SWCD/County cooperative project to accelerate the implementation of BMPs within the Pomme de Terre River Watershed. Our goal is to reduce sedimentation by 26,601 tons/yr and phosphorus loading by 26,621 lb/yr. Fecal coliform contamination will also be reduced in the Pomme de Terre River. | \$502,684 (CWA) | \$257,610 (RR/SL/RTA) |
| Otter Tail | East Otter Tail Soil and Water Conservation District | East Otter Tail Groundwater Protection Project | This project will provide incentives to encourage irrigation producers to convert high or medium pressure irrigation systems to low pressure systems, which will prevent potential nitrate-nitrogen and other potential groundwater contamination through leaching due to over irrigation | \$174,742 (CWA) | \$87,371 (CWA) |
| Stearns | Sauk River Watershed District | Sauk River Runoff Reduction and Riparian Restoration | This project will install 29 urban stormwater/shore land projects on private property and 7 on city or school property. | \$435,289 (RR/SL) | \$435,289 (RR/SL) |
| Pennington | Pennington SWCD | Judicial Ditch #30 & #18 Buffer Initiative | This project will provide incentive payments for landowners to install 50' wide buffer strips and grade stabilization structures from field ditches along 24 mile ditch system. | \$187,687 (CWA) | \$93,844 (CWA) |
| St. Louis | South St. Louis Soil & Water Conservation District | Miller Creek Urban Trout Stream Restoration Projects | This project will restore 3,400 ft. of Miller Creek, a designated trout stream in Duluth. | \$154,893 (CWA) | \$154,893 (CWA) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|-------------------|--|---|---|----------------------------|----------------------------|
| Kittson | Two Rivers Watershed District | Lake Bronson Watershed Runoff Reduction Project | The project will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD). | \$200,000 (CWA) | \$100,000 (RR) |
| Washington | Brown's Creek Watershed District | Brown's Creek Thermal Load Reduction | Brown's Creek Watershed District and Oak Glen Golf Course will partner to achieve significant thermal and sediment reductions in biologically impaired Brown's Creek by installing 2.25 acres of buffer and restoring 1300 feet of stream bank. | \$210,000 (SL) | \$210,000 (SL) |
| Lake of the Woods | Lake of the Woods Soil and Water Conservation District | Bostic and Zippel Watershed Stabilization and Water Retention Project | This project will reduce erosion, sedimentation, and nutrient transport within the Bostic and Zippel Watersheds by installing grade stabilization, side water inlets, and gully stabilization projects and developing a water retention plan. | \$52,105 (CWA) | \$52,105 (CWA) |
| Todd | Todd Soil & Water Conservation District | Swan River Headwaters Clean Water Fund | This project targets nineteen landowners within the Swan River Watershed. The practices installed will control pollutants and sediment from entering surface waters. | \$203,158 (SL) | \$203,158(CWA) |
| Hennepin | City of St. Louis Park | Minnehaha Creek Stream Meander - St. Louis Park | This project aims to re-meander a section of Minnehaha Creek. The project will include increased riparian buffers, stream bank stabilization, vegetative restoration, and construction of water quality treatment practices. | \$300,000 (SL) | \$300,000 (SL) |
| Sherburne | Elk River Watershed Association | Elk River Watershed Pollution Loading Reduction Project | Elk River Watershed Association (ERWSA) has commitments from cooperators to restore shore lands, treat stormwater, manage manure and create a wetland. | \$149,104 (SL) | \$149,104 (CWA) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|---|--|---|----------------------------|----------------------------|
| Isanti | Isanti County Zoning Department | Isanti County Native Grass/ Stormwater BMP Demonstration Project | The project will reduce runoff and protect groundwater by establishing native plantings on at least 150 acres of private lands in priority areas and establish stormwater reduction and other BMP projects in county parks. | \$145,484 (CWA) | \$65,924 (CWA) |
| Red Lake | Red Lake County SWCD | Accelerated Streambank & Shoreland Projects in the Clearwater River Watershed. | This project will construct two streambank stabilizations identified in an Erosion Site Inventory conducted by Red Lake County SWCD. | \$103,789 (CWA) | \$48,421 (SL) |
| Scott | Prior Lake-Spring Lake Watershed District | Spring and Prior Lake Upper Watershed Stormwater Runoff Volume Reduction | This project will store an additional 186 ac-ft of stormwater per year in the upper watershed of Spring and Prior Lake through wetland reestablishment and restoring natural infiltration capacity of several topographic depressions. | \$195,600 (RR) | \$195,600 (RR) |
| Pennington | Pennington SWCD | The Ralph Engelstad Arena Raingarden Project | The Ralph Engelstad Arena covers about two city blocks and is covered by 85-90% impervious surface. This project will utilize multiple raingardens to store water onsite and control stormwater runoff. | \$88,681 (CWA) | \$88,681 (CWA) |
| Aitkin | Aitkin County SWCD | Cedar and Farm Island Lakes, Reversing the Downward Trend | Cedar and Farm Island are large recreational lakes located in the Aitkin/Brainerd Lakes area. Both lakes are showing significant downward trends in water clarity. This project seeks to reverse that trend before these lakes degrade further. | \$108,011 (CWA/SL) | \$108,011 (CWA) |
| Multi-County | Greater Blue Earth River Basin Alliance | Agricultural Shoreland Initiative | This project will identify DNR protected shoreland in GBERBA counties without a 50' buffer. Implementation of buffers and landowner Education will also be undertaken. | \$267,368 (CWA) | \$100,000 (CWA/SL) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------|--|--|--|---------------------|---------------------|
| Stearns | Sauk River Watershed District | Technical Assistance for Sauk River Watershed - Mississippi River Basin Initiative | This project will provide technical assistance for the Upper Mississippi River Basin Initiative (MRBI) project in the Sauk River Watershed. | \$231,579 (CWA) | \$168,421 (RTA) |
| Clay | Buffalo-Red River Watershed District | Wolverton Creek Restoration and Sediment Reduction Project | This project aims to reduce erosion and sedimentation in Wolverton Creek by installing side inlets, buffer strips, conservation tillage, and channel restoration design. | \$306,837 (RTA) | \$253,229 (RR) |
| Chisago | Chisago Soil and Water Conservation District | Chain of Lakes Stormwater Retrofit Assessment Best Management Practices | The Chisago Lakes Chain of Lakes Stormwater Retrofit Assessment has assessed 54 small watersheds for the optimal locations for best management practices. A long list of BMPs has been identified and this project will take the next step is to design and install priority projects. | \$230,526 (CWA) | \$230,526 (CWA) |
| Scott | Prior Lake-Spring Lake Watershed District | Upper Prior Lake – Targeted Stormwater BMP Retrofits & Enhancements | This project will enhance 11 existing water quality ponds to include iron-sand enhanced filtration, hydro period modification and increased storage. In addition, 39 retrofit bioretention raingardens targeted in untreated subwatersheds and a 210 SF permeable pavement area will be constructed. | \$189,511 (CWA) | \$189,511 (RR) |
| Clay | Buffalo - Red River Watershed District | Upper South Branch BMP Strategic Implementation Plan | LiDAR terrain analysis will be used to determine BMP locations to reduce sediment loads and runoff contamination. BMPs will be implemented at these locations. | \$135,364 (RTA) | \$135,364 (RTA/RR) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|------------|---|--|---|---------------------|---------------------|
| Scott | Scott Watershed Management Organization | Sand Creek & Prior Lake/Spring Lake Watersheds Wetland Restoration Project | This proposal is to fund Early Adopter payments to promote participation in a regional watershed project having the goal of improving water quality and expanding wildlife habitat by permanently restoring and enhancing up to 500 acres of wetlands in the Sand Creek and Prior/Spring Lake Watersheds. | \$80,000 (RR) | \$80,000 (RR) |
| Otter Tail | West Otter Tail SWCD | Otter Tail and Pelican River Implementation | This project will help promote and design BMPs that are priorities in the Lower Otter Tail Watershed TMDL implementation plan. | \$65,684 (RTA) | \$65,684 (RTA) |
| Traverse | Bois de Sioux Watershed District | Mustinka River Turbidity TMDL Implementation Project | This project will work to complete goals outlined within the Mustinka River TMDL Implementation Plan. Implementing BMPs will annually reduce a total of 31,250 tons of sediment and 31,250 pounds of phosphorus loading into the Mustinka River. | \$260,211 (RR) | \$130,106 (RR) |
| Pennington | Pennington SWCD | Halvorson Streambank Restoration | Stabilize 300' of the Thief River streambank to protect a home plus improve water quality in impaired water and a city drinking water supply. | \$34,375 (SL) | \$34,375 (SL) |
| Carlton | Carlton SWCD | Elim Creek Restoration Through Aging Sediment Retention Structure Removal | This project will remove three, 30 year old sediment control structures and restore 1/3 mile of Elim Creek. The project will correct 304 tons of soil loss and remove the threat of 956 tons of sediment transport to the North Fork of the Nemadji River that is impaired for turbidity. | \$119,522 (CWA) | \$119,522 (CWA) |
| Blue Earth | Blue Earth County | Blue Earth County Shoreland Buffer Initiative | Restoration technical assistance will be targeted in shoreland areas within impaired watersheds to establishment of riparian buffers and other practices. | \$136,842 (RTA) | \$136,842 (RTA) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|--|---|--|----------------------------|----------------------------|
| Chisago | Chisago Soil and Water Conservation District | St. Croix River escarpment gully stabilization inventory and outreach program | This project will inventory the active gully erosion sites along the St. Croix River escarpment from the Wild River State Park entrance south to the County line. This inventory will be utilized to contact landowners and begin the process of developing a plan to implement BMP's. | \$31,579 (RTA) | \$31,579 (RTA) |
| Becker | Becker Soil & Water Conservation District | Campbell Creek Phosphorus and Sedimentation Reduction Project | Continue the successful efforts of erosion and sediment reduction in the Campbell Creek/Floyd chain of lakes area and the Buffalo River through the installation of sediment and erosion control basins and native buffers. | \$57,653 (CWA) | \$57,653 (SL) |
| Ramsey | Ramsey Washington Metro Watershed District | North Saint Paul Living Street Project | The proposed 2-block street reconstruction project addresses aspects of the Kohlman Lake TMDL Implementation Plan through construction of infiltration rainwater gardens, urban trees and narrowed streets in a distributed fashion in a residential setting, achieving runoff volume reduction and pollutant reduction. | \$566,000 (RR) | \$566,000 (RR) |
| Washington | Middle St. Croix Watershed Management Organization | Lily Lake Stormwater Retrofit Project | This project will implement priority stormwater treatment projects identified in the Lily Lake Stormwater Retrofit Assessment Report. Implementation will reduce phosphorous inputs to Lily Lake by 9.5 lbs/yr, reduce TSS to Lily Lake by 8,566 lbs/yr and provide a volume reduction of 7.7 acre-feet/yr | \$43,400 (RR) | \$43,400 (RR) |
| Crow Wing | Crow Wing Soils and Water Conservation District | Catch, Clean, Circulate, Stormwater Management for Gull and Trout Lakesheds | This project will implement projects that will intercept, infiltrate, and treat runoff which will reduce phosphorus and sediment inputs into Gull and Trout Lakes. | \$136,300 (CWA) | \$136,300 (CWA) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|--|--|--|----------------------------|----------------------------|
| Polk | East Polk Soil and Water Conservation District | Sand Hill River Watershed Accelerated Erosion Area BMP's | This project would assist in the installation of 29 sediment basins in the Upper Sand Hill River Watershed. | \$281,053 (CWA) | \$281,053 (CWA) |
| Carver | Carver County WMO | Reitz Lake Restoration Project | Reitz Lake's water quality will improve by installing a water retention structure, enhancing/restoring a wetland and installing several raingardens/shoreland restorations. | \$127,551 (RR/SL) | \$127,551 (RR/SL) |
| Hennepin | City of Orono | Stubbs Bay Ravine Stabilization | This project will repair an eroding ravine that drains into Stubbs Bay on Lake Minnetonka. The proposed project is to regrade the ravine, install grade breaks, and stabilize it with native vegetation and shrubs. | \$183,684 (SL) | \$183,684 (SL) |
| Scott | Scott Watershed Management Organization | Cedar & O'Dowd Lake Shoreline Improvements | This project will reduce phosphorus input into Cedar and O'Dowd Lakes, create habitat to improve water quality by stabilizing shoreland in the Cedar Lake Farms Regional Park, and by restoring shoreland along O'Dowd Lake. | \$30,000 (SL) | \$15,000 (SL) |
| Washington | Washington Conservation District | Powers Lake Priority Subwatershed Retrofit Project | This project will implement 20 priority stormwater treatment projects within two target catchments identified in the Powers Lake Subwatershed Assessment. | \$37,632 (CWA) | \$37,632 (CWA) |
| Becker | Buffalo-Red River Watershed District | Continuation of Hay Creek/Stinking Lake Sediment Reduction Project | Continue the successful efforts of erosion and sediment reduction in the Hay Creek/Stinking Lake Watershed through the installation 19 additional sediment and erosion control basins. | \$105,408 (RR) | \$105,408 (RR) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|--|--|--|----------------------------|----------------------------|
| Chisago | Chisago Soil and Water Conservation District | Implementation of Water-Smart Best Management Practices at Schools and Libraries | This project will implement BMPs to treat stormwater runoff at public school and library facilities in Chisago County. | \$37,895 (CWA) | \$37,895 (CWA) |
| Murray | Murray County | Jackson-Cottonwood-Murray West Fork Des Moines River BMP Project | Construct sediment reduction projects in the Des Moines River watershed that include a structure enhancement in Cottonwood County, a bio swale and sediment control structure in Jackson County, and a retention structure in Murray County. | \$83,064 (CWA) | \$83,064 (CWA) |
| Red Lake | Red Lake Watershed District | Grand Marais Creek Cut Channel Stabilization Project | Stabilize the outlet of Grand Marais Creek to reduce the sediment carried to the Red River of the North by up to 700 tons per year. | \$662,000 (RR/SL) | \$662,000 (RR/SL) |
| Washington | Washington Conservation District | Armstrong Lake Restoration - Oakdale Library Water Quality Retrofit | Oakdale Library Water Quality Retrofit project will install a large parking lot bioretention facility and multiple rain gardens to reduce phosphorus loading and improve water quality in Armstrong Lake and Wilmes Lake. | \$48,270 (CWA) | \$48,270 (CWA) |
| Chisago | Chisago Soil and Water Conservation District | Stabilization of erosion concerns adjacent to public roads and rivers | This project will implement numerous BMPs to correct multiple erosion concerns occurring adjacent to two public roads (Kost Dam Trail and County Road 81), which are in close proximity to the Sunrise River. | \$89,474 (CWA) | \$89,474 (CWA) |
| Cass | Cass Soil and Water Conservation District | Cass County Water Quality Enhancement and Shoreline Protection Project | This project consists of an erosion/sediment control project and two shoreline restoration and protection projects that will enhance and protect surface water quality in Cass County. | \$193,553 (CWA/SL) | \$77,862(CWA/SL) |

Table A-1: List of FY 2011 Clean Water Fund Grant Recipients

CWA= Clean Water Assistance; RR= Runoff Reduction; RTA = Restoration Technical Assistance; SL = Shoreland

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|---------------|------------------|---|--|----------------------------|----------------------------|
| Blue Earth | Blue Earth SWCD | Blue Earth County Ravine and Stream Channel Stabilization Design Assistance | This project will facilitate the construction of up to ten projects that will significantly reduce gully, ravine, stream bank and bluff erosion and sedimentation in the Blue Earth, Le Sueur, Watonwan and Middle Minnesota River watersheds. | \$57,895 (RTA) | \$57,895 (RTA) |

| Table A-2: FY 2011 Clean Water Funds SSTS Program Enhancement and Inventory Grants | | | | |
|---|-----------------------------------|---|------------------|---|
| LGU | MPCA SSTS Inventory Grant* | BWSR SSTS Program Enhancement Grant* | Match | Project Description |
| Faribault County | \$0 | \$67,895 | \$17,500 | An accurate digital parcel database of residential land ownership would provide Faribault County a base to track SSTS permitting, compliance status and maintenance activities, and move permitting and compliance records from a paper file system to the web for 24/7 homeowner and public access. |
| Cass County | \$16,579 | \$13,053 | \$15,200 | Lake inventories for septic compliance will be conducted on 236 parcels on Sylvan Lake and 284 parcels in the Lake Margaret Watershed in southwest Cass County in partnership with the municipalities of East Gull Lake and Lakeshore and townships of Fairview and Meadowbrook. |
| Rice County | \$0 | \$80,000 | \$20,000 | This project will enhance the Rice County SSTS program by providing additional maintenance activities, follow-up of over 350 IPHT systems identified through inventory activities, property transfers, CUPs, and variances. In addition, funds are being requested to offer a voluntary upgrade incentive program to aid in increased enforcement. |
| Le Sueur County | \$350,396 | \$30,612 | \$409,000 | This project will complete a septic system inventory of shoreland parcels on the Jefferson-German chain of lakes. A past survey showed that over 500 residents on the chain approved of having a septic inspection. There is a sewer district and a detailed septic inventory is needed. |
| Beltrami County | \$0 | \$41,500 | \$35,000 | Beltrami County will utilize Clean Water Funding to expand and enhance its SSTS program through landowner education, professional workshops, creating an electronic database, staff training, and assisting other LGU's. |
| Todd County | \$0 | \$107,263 | \$56,000 | Through a collaborative effort between the Todd County Board of Commissioners, county administration, Sauk River Watershed District, and lake associations, a systematic septic inventory program has begun. Four lakes with 1200 parcels total have been researched and groundtruthed for imminent health threats and will have compliance inspections completed by 2011. |
| Anoka County | \$0 | \$30,250 | \$7,961 | Anoka County is submitting this application on behalf of and in partnership with the City of Columbus. The City of Columbus is applying for this grant to replace an outdated septic system pumping and monitoring computer software. The current software no longer has software support from its vendor for software changes or updates nor does it have the capability to be supported by future versions of a windows based operating system. |
| Totals | \$366,975 | \$370,573 | \$560,661 | *Includes 5% admin maximum |

| Table A-3: FY 2011 SSTS Abatement Grants | | | |
|---|--|--|--------------------|
| County | Applicant | #of Imminent Health Threat Abatements | Grant Award |
| Pipestone | Pipestone SWCD | 9 | \$47,368 |
| Martin | Martin County Planning & Zoning | 17 | \$223,210 |
| Chippewa | Chippewa County Land & Resource Management | 1 | \$7,795 |
| Stearns | Stearns County Environmental Services | 45 | \$420,285 |
| Scott | Scott County | 3 | \$40,095 |
| Big Stone | Big Stone County Environmental Services | 3 | \$30,928 |
| Lincoln | Lincoln County Environmental Office | 5 | \$21,053 |
| Rice | Rice County | 5 | \$18,947 |
| Dodge | Dodge County Environmental Services | 7 | \$45,513 |
| Pennington | Pennington County | 2 | \$15,789 |
| Mille Lacs | Mille Lacs County - Land Services Department | 5 | \$47,959 |
| Meeker | Meeker County | 10 | \$55,453 |
| Beltrami | Beltrami County Environmental Services | 1 | \$6,400 |

| Table A-3: FY 2011 SSTS Abatement Grants | | | |
|---|---|--|--------------------|
| County | Applicant | #of Imminent Health Threat Abatements | Grant Award |
| McLeod | McLeod County Environmental Services | 8 | \$46,000 |
| Chisago | Chisago County Environmental Services/Zoning | 9 | \$47,368 |
| Lake | Lake County | 6 | \$84,000 |
| Lake of the Woods | Lake of the Woods County Land & Water Planning Office | 15 | \$113,158 |
| Jackson | Jackson County | 6 | \$45,900 |
| Cook | Tofte-Schroeder Sanitary Sewer District | 15 | \$40,000 |
| Total | | 172 | \$1,357,221 |

Table A-4: FY 2011 Clean Water Fund Conservation Drainage Grants

| County | Applicant | Project Title | Project Abstract | Total Grant Request | Total Grant Awarded |
|------------------------|-------------------------------------|--|--|---------------------|---------------------|
| Cottonwood and Jackson | Cottonwood and Jackson SWCDs | Fish Lake Outlet Mitigation Project | This project will eliminate nitrogen and fecal bacteria from all tile outlets entering Fish lake. We will use wood chip bio reactors to remove the nitrogen and a joint wastewater treatment system to remove the septic discharge. All landowners have been contacted and have agreed to proceed with the project. | \$268,000 | \$255,900 |
| Dodge | Dodge County Environmental Services | Improving Woodchip Bioreactors for Agricultural Nitrate and Phosphorus Reduction | This project involves the installation of a woodchip bioreactor on a tile-drained agricultural field, which will feature improvements in design, and monitoring scope, as compared to a previous bioreactor constructed in Dodge County in 2007. This bioreactor should demonstrate a cost-effective way for agricultural producers to reduce the nitrate level of tile discharge water, and further the understanding of how these same units can aid in phosphorus management as well. | \$30,000 | \$30,000 |
| Red Lake | Red Lake County SWCD | Red Lake Watershed District Ditch 3 & Ditch 7 Project | Red Lake County SWCD will work cooperatively with the Red Lake Watershed District (RLWD) and the landowners involved to reduce erosion, provide temporary detention and eliminate sediment deposition along the Red Lake Watershed District Ditch #3 system by installing eight side water inlet structures and along the Red Lake Watershed District Ditch #7 system by installing eight side water inlet structures in Red Lake County. | \$55,368 | \$27,600 |

Table A-5: FY2011 Feedlot Water Quality Management Grants

| County | Applicant | #of Projects | Total BWSR Award |
|---------------|---------------------------------------|---------------------|-------------------------|
| Anoka | Anoka Conservation District | 2 | \$39,946 |
| Goodhue | Goodhue County | 1 | \$143,561 |
| Winona | Winona SWCD | 16 | \$893,950 |
| Lyon | Lyon SWCD | 1 | \$87,629 |
| Wright | Wright SWCD | 2 | \$46,316 |
| Wabasha | Wabasha County Environmental Services | 2 | \$128,421 |
| Houston | Root River SWCD | 1 | \$59,474 |
| Fillmore | Fillmore SWCD | 7 | \$457,118 |
| Brown | Brown County | 2 | \$56,525 |
| Nobles | Nobles SWCD | 1 | \$173,961 |
| Pope | Pope SWCD | 1 | \$63,032 |
| Olmsted | Olmsted SWCD | 3 | \$103,955 |
| Winona | SE MN Technical JPB | 0* | \$183,000 |
| Total | | 39 | \$2,436,888 |

*Technical assistance provided to assist with the installation of FY10-11 CWF Feedlot Projects in a multi-SWCD Technical Service Area

Appendix B: Estimated Intermediate Outcomes

| Year | County | Awarded Organization | Project Title | Impaired Water | Completed TMDL | Name of TMDL Study | TMDL Phosphorus Reduction Needed (lb) | Estimated Phosphorus Reductions (lb/yr) | TMDL Phosphorus Reduction (%) | TMDL Sediment Reduction Needed (T) | Estimated Sediment Reductions (T/yr) | TMDL Sediment Reduction (%) | Keeping Water on the Land (acre-ft) |
|------|------------------------------------|----------------------------------|--|----------------|----------------|--|---------------------------------------|---|-------------------------------|-------------------------------------|--------------------------------------|-----------------------------|-------------------------------------|
| 2010 | Norman and Mahnomen | Wild Rice WD | Lower Wild Rice River (LWRR) Turbidity Project | Yes | Yes | Lower Wild Rice River Turbidity TMDL | | | | 13176 | | <5 | 273 |
| 2011 | Rock | Rock SWCD | Rock River Turbidity and Fecal Coliform Reduction | Yes | Yes | Rock River Turbidity and Fecal Coliform TMDL | | 11.53 | | 2502 | 11.53 | 0.5 | |
| 2011 | Wilkin | Wilkin SWCD | Lower Otter Tail River Sediment Reduction Project Phase IV | Yes | Yes | Lower Otter Tail River TMDL | | | | 6800 | 511 | 7.5 | |
| 2011 | Hennepin | Bassett Creek WMO | Wirth Lake Outlet Modification Project | Yes | Yes | Wirth Lake Excessive Nutrient TMDL | 48 | 55 | 100 | | | | |
| 2011 | Traverse | Bois de Sioux Watershed District | Mustinka River Turbidity TMDL Implementation Project | Yes | Yes | Mustinka River Turbidity TMDL | | 15625 | | 2,720,186 | 15625 | 0.6 | |
| 2010 | Hennepin | Shingle Creek | New Hope 45th Avenue Pond Improvements Project | Yes | Yes | Twin-Ryan Lakes Excessive Nutrient TMDL | 667 | 41 | 6.0 | | 10.1 | | |
| 2010 | Rock | Rock SWCD | Rock River Stream Bank Stabilization and Turbidity Reduction | Yes | Yes | Rock River Turbidity and Fecal Coliform TMDL | | | | 7730 | 606 | 7.8 | |
| 2010 | Ramsey | Ramsey Washington Metro WD | Maplewood Mall Stormwater Infiltration Retrofit Project | Yes | Yes | Kolman Lake TMDL | 209 | 20 | 10 | | 2.9 | | |
| 2010 | Wright | Clearwater WD | Reducing Phosphorus Loads to Lake Betsy by Protecting Willow Creek | Yes | Yes | Clearwater River (UM Basin) CD #44 to Lake Betsy: Dissolved Oxygen, Bacteria and Excessive Nutrient TMDL | 19136 | 244 | 1.3 | | | | 53.5 |
| 2010 | Dakota | North Cannon WMO | North Cannon River Watershed Runoff Reduction Project | Yes | Yes | Lower Cannon River Turbidity TMDL | 18575 | 717 | 4 | 29565 | 525 | 2 | |
| 2010 | Yellow Medicine, Lincoln, and Lyon | Yellow Medicine River SWCD | SWCDs CWF 2010 Project for the Yellow Medicine Major Watershed | Yes | Yes | Yellow Medicine Fecal Coliform TMDL | | 1021 | | | 840 | | |
| 2010 | Rice, Goodhue, Steele and Waseca | Rice SWCD | Targeted Buffer Installation in the Cannon River Watershed | Yes | Yes | Lower Cannon River Turbidity TMDL | 18575 | 6004 | 32 | 29565 | 5452 | 18 | 2.78 |
| 2010 | Washington | Brown's Creek Watershed District | Stillwater Country Club Water Quality Improvements | Yes | Yes | Brown's Creek Biotic Impairment TMDL | | 17 | | 547 | 48 | 9 | 18 |
| 2010 | Kanabec and Mille Lacs | Snake River Management Board | Snake River Watershed Nutrient and Sediment Reduction Project. | Yes | Yes | Groundhouse River Turbidity and Bacteria TMDL | | 221 | | 1871 | 262 | 14 | |
| 2010 | Dakota | Dakota SWCD | Stormwater Retrofit Partnership in Dakota County | Yes | Yes | Lower Cannon River Turbidity TMDL | 18575 | 8.35 | 0.05 | 29565 | 2.6 | 0.01 | 5 |
| 2010 | Chisago | Comfort Lake Forest Lake WD | Comfort Lake - Forest Lake Watershed District Cattle Exclusion | Yes | Yes | Comfort Lake Forest Lake Excessive Nutrient TMDL | 504 | 255 | 50 | | | | |

Appendix B: Estimated Intermediate Outcomes

| Year | County | Awarded Organization | Project Title | Impaired Water | Completed TMDL | Name of TMDL Study | TMDL Phosphorus Reduction Needed (lb) | Estimated Phosphorus Reductions (lb/yr) | TMDL Phosphorus Reduction (%) | TMDL Sediment Reduction Needed (T) | Estimated Sediment Reductions (T/yr) | TMDL Sediment Reduction (%) | Keeping Water on the Land (acre-ft) |
|------|---------------------|---|--|----------------|----------------|---|---------------------------------------|---|-------------------------------|--------------------------------------|--------------------------------------|-----------------------------|-------------------------------------|
| 2010 | South St. Louis | South St. Louis SWCD | Knife River Sediment Reduction BMP Implementation | Yes | Yes | Knife River Turbidity TMDL | | | | 124 (med flows) 1460 (high flows) | 113 | 8 | |
| 2010 | Multi-County | GBERBA | Implementing Targeted BMPs in the Greater Blue Earth River Watershed | Yes | Yes | Lower Minnesota River Dissolved Oxygen TMDL | 29667 | 645 | 2 | | 615 | | |
| 2010 | Redwood, Cottonwood | RCRCA | SWCD's Incentives and BMPs in the Redwood and Cottonwood Watersheds | Yes | Yes | Lower Minnesota River Dissolved Oxygen TMDL | 29667 | 8,062 | 27 | | 700 | | |
| 2011 | Washington | Brown's Creek Watershed District | Brown's Creek Thermal Load Reduction | Yes | Yes | Brown's Creek Biotic Impairment TMDL | | 4.4 | | 547 | 12.7 | 2 | 3.9 |
| 2011 | Ramsey | Ramsey Washington Metro WD | North Saint Paul Living Street Project | Yes | Yes | Kolman Lake TMDL | 209 | 3.6 | 2 | | 0.5 | | 3.4 |
| 2011 | Carver | Carver County WMO | Reitz Lake Restoration Project | Yes | Yes | Reitz Lake | 893 | 207 | 23 | | 1 | | |
| 2011 | Murray | Murray County | Jackson-Cottonwood-Murray West Fork Des Moines River BMP Project | Yes | Yes | West Fork Des Moines River TMDL | | 288 | | | 199 | | |
| 2010 | Scott | Scott County | Native Grass Cost Share and Incentives For Runoff Reduction | Yes | Yes | Lower Minnesota River Dissolved Oxygen TMDL | 29667 | 189 | 0.6 | | | | 35 |
| 2010 | Scott | Scott County | Upper Porter and Picha Creek Restorations, Scott County | Yes | Yes | Lower Minnesota River Dissolved Oxygen TMDL | 29667 | 2690 | 9 | | | | |
| 2011 | Scott | Prior Lake-Spring Lake Watershed District | Spring and Prior Lake Upper Watershed Stormwater Runoff Volume Reduction | Yes | No | Spring Lake - Upper Prior Lake Excessive Nutrient TMDL (in draft) | 1568 | 413 | 26 | | | | |
| 2010 | Hennepin | Nine Mile Creek WD | Hopkins Streambank Stabilization and Habitat Restoration Project | Yes | No | Ninemile Creek: Impaired Biota, Turbidity & Chloride TMDL (in progress) | | | | | 464 | | |
| 2011 | Scott | Prior Lake-Spring Lake Watershed District | Upper Prior Lake – Targeted Stormwater BMP Retrofits & Enhancements | Yes | No | Spring Lake - Upper Prior Lake Excessive Nutrient TMDL (in draft) | 1568 | 67 | 4 | | 7.6 | | |
| 2010 | Nobles | Nobles SWCD | Kanaranzi –Little Rock Watershed District Stimulus Project Completion | Yes | No | | | 1098 | | | 1098 | | |
| 2010 | Aitkin | Aitkin SWCD | Water Quality Improvement Projects for the Big Sandy Lake Watershed | Yes | No | Big Sandy Lake Excessive Nutrient TMDL (in draft) | 12494 | 35.5 | 0.30 | | 21.21 | | 0.03 |
| 2010 | Wilkin | Wilkin Soil and Water Conservation District | Whiskey Creek Water Quality Improvement/Sediment Reduction Project | Yes | No | Red River Turbidity TMDL (in progress) | | | | | 913.5 | | |
| 2010 | Blue Earth | Blue Earth SWCD | Reducing turbidity using natural channel management in the LeSueur River | Yes | No | Minnesota River Turbidity TMDL (in progress) | | | | | 4811 | | |
| 2010 | Benton | Benton SWCD | Benton SWCD Animal Waste Management and Irrigation Water Management | Yes | No | Little Rock Creek Biotic Impairment TMDL (in progress) | | 1750 | | | | | 133 |
| 2010 | Hennepin | Bassett Creek Watershed Management Commission | Bassett Creek and Plymouth Creek Stream Stabilization Projects | Yes | No | Medicine Lake TMDL (in progress) | 1287 | 396 | 31 | | 138 | | 0.62 |
| 2010 | Hennepin | City of Savage | Utica Ravine Stabilization, Savage Minnesota | Yes | No | Credit River Turbidity TMDL (in progress) | | | | | 50 | | |
| 2010 | Pennington | Pennington SWCD | Erickson Group Streambank Stabilization | Yes | No | Thief River TMDL (in progress) | | 137 | | | 119 | | |
| 2010 | Nobles | Nobles SWCD | Nobles County Conservation Structural Practices | Yes | No | | | 205 | | | 205 | | |

Appendix B: Estimated Intermediate Outcomes

| Year | County | Awarded Organization | Project Title | Impaired Water | Completed TMDL | Name of TMDL Study | TMDL Phosphorus Reduction Needed (lb) | Estimated Phosphorus Reductions (lb/yr) | TMDL Phosphorus Reduction (%) | TMDL Sediment Reduction Needed (T) | Estimated Sediment Reductions (T/yr) | TMDL Sediment Reduction (%) | Keeping Water on the Land (acre-ft) |
|------|-------------------|--|--|----------------|----------------|---|---------------------------------------|---|-------------------------------|-------------------------------------|--------------------------------------|-----------------------------|-------------------------------------|
| 2010 | Goodhue | Goodhue SWCD | Minneola Township Water Retention / Watershed Enhancement Project | Yes | No | Zumbro River Watershed Excess Nutrient and Turbidity TMDL (in progress) | | 301 | | | 301 | | 5.3 |
| 2010 | Stevens | Stevens SWCD | Stevens County Water Quality Initiative | Yes | No | Pomme de Terre River Turbidity TMDL (in progress) | | | | | | | |
| 2010 | Sherburne | Sherburne SWCD | Sherburne SWCD 2010 Land Treatment Projects | Yes | No | Elk River Multiple Impairment TMDL (in progress) | | 360 | | | 398 | | 0.674 |
| 2010 | Pope | Pope SWCD | Glenwood Dairyland Basin Stormwater Mitigation Project | Yes | No | | | 514 | | | 603 | | |
| 2010 | Hennepin | Shingle Creek | Shingle Creek Restoration, I-94 to CR 10, Brooklyn Center | Yes | No | Shingle Creek Low Dissolved Oxygen and Biotic TMDL (in progress) | | | | | 1.35 | | |
| 2011 | Red Lake | Red Lake Watershed District | Grade Stabilization for Reduction of Sedimentation in the Thief River | Yes | No | Thief River TMDL (in progress) | | | | | 419 | | |
| 2011 | Benton | Benton SWCD | Little Rock Impaired Waters Kickoff | Yes | No | Little Rock Creek Biotic Impairment TMDL (in progress) | | 244 | | | 287 | | |
| 2011 | Nobles | Nobles SWCD | Langseth Family (Lake Ocheda) Shoreline Improvement Project | Yes | No | | | 475 | | | 475 | | |
| 2011 | Mower | Cedar River Watershed District | Dobbins Creek Watershed Restoration | Yes | No | | | 180 | | | 937 | | |
| 2011 | Grant | Pomme De Terre River Association | Pomme de Terre River Watershed Best Management Practice (BMP) Initiative | Yes | No | Pomme de Terre River Turbidity TMDL (in progress) | | | | | | | |
| 2011 | Stearns | Sauk River Watershed District | Sauk River Stormwater Runoff Reduction and Riparian Restoration Project | Yes | No | Sauk River Chain of Lake Excessive Nutrient TMDL (in progress) | | 392 | | | 5440 | | 589 |
| 2011 | Pennington | Pennington SWCD | Judicial Ditch #30 & #18 Buffer Initiative | Yes | No | Thief River TMDL (in progress) | | 5130 | | | 488 | | |
| 2011 | St. Louis | South St. Louis SWCD | Miller Creek Urban Trout Stream Restoration Projects | Yes | No | Miller Creek Temperature and Lack of Cold Water Assemblage TMDL (in progress) | | | | | | | 42.5 |
| 2011 | Kittson | Two Rivers Watershed District | Lake Bronson Watershed Runoff Reduction Project | Yes | No | | | 6424 | | | 400 | | |
| 2011 | Lake of the Woods | Lake of the Woods Soil and Water Conservation District | Bostic and Zippel Watershed Stabilization and Water Retention Project | Yes | No | | | 70 | | | 121 | | |
| 2011 | Todd | Todd Soil & Water Conservation District | Swan River Headwaters Clean Water Fund | Yes | No | | | 677 | | | 70 | | |
| 2011 | Hennepin | City of St. Louis Park | Minnehaha Creek Stream Meander - St. Louis Park | Yes | No | | | 150 | | | | | |
| 2011 | Sherburne | Elk River Watershed Association | Elk River Watershed Pollution Loading Reduction Project | Yes | No | Elk River Multiple Impairment TMDL (in progress) | | 621 | | | | | |
| 2011 | Clay | Buffalo-Red River Watershed District | Wolverton Creek Restoration and Sediment Reduction Project | Yes | No | Red River Turbidity TMDL (in progress) | | 59480 | | | 51995 | | |
| 2011 | Chisago | Chisago Soil and Water Conservation District | Chain of Lakes Stormwater Retrofit Assessment Best Management Practices | Yes | No | Chisago Lakes Nutrient Impairment TMDL (in progress) | | 27.5 | | | 10 | | 13 |

Appendix B: Estimated Intermediate Outcomes

| Year | County | Awarded Organization | Project Title | Impaired Water | Completed TMDL | Name of TMDL Study | TMDL Phosphorus Reduction Needed (lb) | Estimated Phosphorus Reductions (lb/yr) | TMDL Phosphorus Reduction (%) | TMDL Sediment Reduction Needed (T) | Estimated Sediment Reductions (T/yr) | TMDL Sediment Reduction (%) | Keeping Water on the Land (acre-ft) |
|------|-----------------------|--|--|----------------|----------------|--|---------------------------------------|---|-------------------------------|-------------------------------------|--------------------------------------|-----------------------------|-------------------------------------|
| 2011 | Clay | Buffalo-Red River Watershed District | Upper South Branch BMP Strategic Implementation Plan | Yes | No | Red River Turbidity TMDL (in progress) | | 16 | | | 16 | | |
| 2011 | Scott | Scott Watershed Management Organization | Sand Creek & Prior Lake/Spring Lake Watersheds Wetland Restoration Project | Yes | No | Sand Creek Multiple Impairments TMDL (in progress) | | 3000 | | | 216 | | 400 |
| 2011 | Pennington | Pennington SWCD | Halvorson Streambank Restoration | Yes | No | Thief River TMDL (in progress) | | 81 | | | 70 | | |
| 2011 | Carlton | Carlton SWCD | Elim Creek Restoration Through Aging Sediment Retention Structure Removal | Yes | No | Nejambi River Turbidity TMDL (in progress) | | | | | 304 | | |
| 2011 | Chisago | Chisago SWCD | St. Croix River escarpment gully stabilization inventory and outreach program | Yes | No | Lake St. Croix Excessive Nutrient TMDL (in progress) | | | | | | | |
| 2011 | Becker | Becker SWCD | Campbell Creek Phosphorus and Sedimentation Reduction Project | Yes | No | | | 157 | | | 136 | | |
| 2011 | Washington | Middle St. Croix WMO | Lily Lake Stormwater Retrofit Project | Yes | No | | | 9.5 | | | 4.3 | | 7.7 |
| 2011 | Polk | East Polk SWCD | Sand Hill River Watershed Accelerated Erosion Area BMP's | Yes | No | | | 21.2 | | | 18.4 | | |
| 2011 | Hennepin | City of Orono | Stubbs Bay Ravine Stabilization | Yes | No | | | 31.8 | | | 27.7 | | |
| 2011 | Scott | Scott WMO | Cedar & O'Dowd Lake Shoreline Improvements | Yes | No | | | 11 | | | | | |
| 2011 | Becker | Buffalo-Red River Watershed District | Continuation of Hay Creek/Stinking Lake Sediment Reduction Project | Yes | No | | | 172 | | | 240 | | |
| 2011 | Chisago | Chisago Soil and Water Conservation District | Implementation of Water-Smart Best Management Practices at Schools and Libraries | Yes | No | Lake St. Croix Excessive Nutrient TMDL (in progress) | | 4.8 | | | 1.1 | | 2 |
| 2011 | Red Lake | Red Lake Watershed District | Grand Marais Creek Cut Channel Stabilization Project | Yes | No | Red River Turbidity TMDL (in progress) | | | | | 700 | | |
| 2011 | Chisago | Chisago Soil and Water Conservation District | Stabilization of erosion concerns adjacent to public roads and rivers | Yes | No | Lake St. Croix Excessive Nutrient TMDL (in progress) | | 244 | | | 275 | | |
| 2011 | Blue Earth | Blue Earth SWCD | Blue Earth County Ravine and Stream Channel Stabilization Design Assistance | Yes | No | Lowe Minnesota Turdidity TMDL (in progres) | | | | | | | |
| 2010 | Mille Lacs and Benton | Mille Lacs SWCD | Randy Miskowic Shoreline Restoration and Accelerated Nutrient and Manure Management Planning | No | No | | | 30 | | | | | |
| 2010 | Becker | Pelican River | Rice Lake Wetland Nutrient Reductions | No | No | | | 5027 | | | | | 860 |
| 2010 | Crow Wing | Crow Wing SWCD | Recharge! Restoring Natural Hydrology to Crow Wing County Urban Communities | No | No | | | 20 | | | 4 | | 15 |
| 2011 | Ramsey | Ramsey Conservation District | Protecting Ramsey County's Drinking Water Supply Management Areas | No | No | | | | | | | | |
| 2011 | Lincoln | Lincoln SWCD | Verdi Wellhead Protection Area Project - 2011 | No | No | | | 235 | | | 165 | | |
| 2011 | Red Lake | Red Lake County SWCD | Accelerated Erosion Control Projects in the Red Lake River Watershed | No | No | | | | | | 1500 | | |
| 2011 | Winona | Winona County | Winona County Well Sealing Cost share Project | No | No | | | | | | | | |

Appendix B: Estimated Intermediate Outcomes

| Year | County | Awarded Organization | Project Title | Impaired Water | Completed TMDL | Name of TMDL Study | TMDL Phosphorus Reduction Needed (lb) | Estimated Phosphorus Reductions (lb/yr) | TMDL Phosphorus Reduction (%) | TMDL Sediment Reduction Needed (T) | Estimated Sediment Reductions (T/yr) | TMDL Sediment Reduction (%) | Keeping Water on the Land (acre-ft) |
|------|----------------------------------|--|--|----------------|----------------|--------------------|---------------------------------------|---|-------------------------------|-------------------------------------|--------------------------------------|-----------------------------|-------------------------------------|
| 2011 | Olmsted | Olmsted SWCD | Protecting Groundwater by Assisting Oronoco Residents in Well Sealing | No | No | | | | | | | | |
| 2011 | Otter Tail | East Otter Tail SWCD | East Otter Tail Groundwater Protection Project | No | No | | | | | | | | |
| 2011 | Isanti | Isanti County Zoning Department | Isanti County Native Grass/ Stormwater BMP Demonstration Project | No | No | | | 202 | | | 337 | | |
| 2011 | Red Lake | Red Lake County SWCD | Accelerated Streambank & Shoreland Projects in the Clearwater River Watershed. | No | No | | | | | | 300 | | |
| 2011 | Pennington | Pennington SWCD | The Ralph Engelstad Arena Raingarden Project | No | No | | | 19.5 | | | 2738 | | |
| 2011 | Aitkin | Aitkin SWCD | Cedar and Farm Island Lakes, Reversing the Downward Trend | No | No | | | 6.28 | | | 1.3 | | |
| 2010 | Dakota | Gun Club WMO | Schwanz Lake Direct-Drainage Targeted Neighborhood Runoff-Reduction Project | No | No | | | 12.2 | | | 2.2 | | 12.2 |
| 2010 | Hennepin | Minnehaha Creek WD | Go Blue! Diamond Lake Community Makeover 2010 | No | No | | | 3.3 | | | | | 4.85 |
| 2010 | Stearns | Stearns SWCD | Pine Edge Dairy: installation of waste storage facility | No | No | | | | | | | | |
| 2010 | Ramsey | Capitol Region WD | Green Infrastructure for the Central Corridor Light Rail Transit (CCLRT) | No | No | | | 83 | | | 20 | | 65 |
| 2010 | Ramsey | Grass Lake WMO | Aladdin Street Bio-Infiltration Basin Retrofit Installation | No | No | | | 2.5 | | | 0.44 | | 2.6 |
| 2010 | Aitkin, Mille Lacs and Crow Wing | Aitkin SWCD | Implementation Projects for the Mille Lacs Lake Watershed | No | No | | | 18.315 | | | 5.69 | | 0.064 |
| 2010 | Stearns | Stearns SWCD | Watershed Based Infiltration For Middle Spunk Lake | No | No | | | 6.3 | | | 0.95 | | 0.15 |
| 2010 | Stearns | Stearns SWCD | Enhanced Shoreline Restoration, Infiltration and Protection Program | No | No | | | 460 | | | 344 | | 0.09 |
| 2011 | Crow Wing | Crow Wing Soil and Water Conservation District | Catch, Clean, Circulate, Stormwater Management for Gull and Trout Lakesheds | No | No | | | 7.6 | | | 0.27 | | 0.6 |
| 2011 | Washington | Washington Conservation District | Powers Lake Priority Subwatershed Retrofit Project | No | No | | | 11.2 | | | | | 10.2 |
| 2011 | Washington | Washington Conservation District | Armstrong Lake Restoration - Oakdale Library Water Quality Retrofit | No | No | | | 10 | | | | | 55 |
| 2011 | Cass | Cass Soil and Water Conservation District | Cass County Water Quality Enhancement and Shoreline Protection Project | No | No | | | 10 | | | 10 | | |

**Appendix C: Comparison of Estimated Number of Non-compliant SSTS
by County to Projects Funded**

| Jurisdiction | Total # SSTS | Calculated # of Failing | Calculated # of ITPH | CWF SSTS Projects in FY 2010 | CWF SSTS Projects in FY 2011 |
|----------------------|---------------------|------------------------------------|---------------------------------|---|---|
| Aitkin County | 14,103 | 1,551 | 141 | | |
| Anoka County | 200 | 20 | - | | |
| Becker County | - | - | - | | |
| Beltrami County | 8,076 | - | - | | 1 |
| Benton County | 5,214 | 1,564 | 261 | | |
| Big Stone County | 1,661 | 399 | 133 | | 3 |
| Blue Earth County | 6,014 | 2,045 | 1,022 | | |
| Brown County | 2,302 | 645 | 645 | | |
| Carlton County | 7,400 | 1,480 | 444 | | |
| Carver County | 4,297 | 1,117 | 602 | | |
| Cass County | 21,543 | 4,309 | 431 | 62 | |
| Chippewa County | 2,227 | 156 | 1,136 | | 1 |
| Chisago County | 7,450 | 1,863 | 0 | 8 | 9 |
| Clay County | 2,904 | 581 | 290 | | |
| Clearwater County | 3,350 | 1,843 | 168 | | |
| Cook County | 4,351 | 1,305 | 218 | | 15 |
| Cottonwood County | 1,632 | 196 | 783 | | |
| Crow Wing County | 17,708 | 1,919 | 159 | 3 | |
| Dakota County | 1,045 | 79 | 21 | | |
| Dodge County | 2,841 | - | - | 6 | 7 |
| Douglas County | 5,060 | 708 | 51 | | |
| Faribault County | 2,112 | 21 | 891 | | |
| Fillmore County | 3,788 | 189 | 114 | | |
| Freeborn County | 3,981 | 1,592 | 836 | 10 | |
| Goodhue County | 5,210 | 1,824 | 1,303 | | |
| Grant County | 1,055 | 200 | 106 | | |
| Hennepin County | - | - | - | | |
| Houston County | 55 | 15 | 11 | | |
| Hubbard County | 17,570 | 4,423 | 354 | | |
| Isanti County | 8,803 | 1,232 | 88 | | |
| Itasca County | 15,558 | 4,201 | 467 | | |
| Jackson County | 3,277 | 1,966 | - | | 6 |
| Kanabec County | 6,535 | 1,307 | - | | |
| Kandiyohi County | 6,846 | 2,396 | 342 | | |
| Kittson County | 980 | 245 | - | | |
| Koochiching County | 1,951 | 1,346 | 195 | | |
| Lac qui Parle County | 1,792 | 627 | - | | |
| Lake County | 5,248 | 577 | 420 | | 6 |
| Lake of the Woods | 2,650 | 265 | 27 | | 15 |
| Le Sueur County | 7,122 | 1,424 | 1,424 | | |
| Lincoln County | 1,788 | 903 | 376 | | 5 |

**Appendix C: Comparison of Estimated Number of Non-compliant SSTS
by County to Projects Funded**

| Jurisdiction | Total # SSTS | Calculated # of Failing | Calculated # of ITPH | CWF SSTS Projects in FY 2010 | CWF SSTS Projects in FY 2011 |
|---------------------|---------------------|------------------------------------|---------------------------------|---|---|
| Lyon County | 2,300 | 759 | 115 | | |
| Mahnomen County | - | - | - | | |
| Marshall County | 2,800 | 1,120 | 280 | | |
| Martin County | 2,400 | 408 | 408 | | 17 |
| McLeod County | 4,108 | 1,643 | 1,027 | 4 | 8 |
| Meeker County | 5,550 | 1,554 | 1,055 | 21 | 10 |
| Mille Lacs County | 5,619 | 1,405 | 562 | | 5 |
| Morrison County | 9,658 | 2,415 | 483 | | |
| Mower County | 3,631 | 2,179 | 363 | | |
| Murray County | 1,115 | 100 | 479 | 9 | |
| Nicollet County | 2,656 | 452 | 797 | | |
| Nobles County | 2,182 | 873 | 436 | | |
| Norman County | 1,161 | 116 | 58 | | |
| Olmsted County | 4,140 | 869 | 207 | | |
| Otter Tail County | 23,050 | 5,763 | 1,153 | | |
| Pennington County | 1,200 | 180 | 24 | | 2 |
| Pine County | 4,897 | 1,959 | 1,224 | | |
| Pipestone County | 1,371 | 137 | 823 | 8 | 9 |
| Polk County | 6,000 | 900 | 120 | | |
| Pope County | 6,012 | 1,503 | - | | |
| Ramsey County | 1,798 | - | - | | |
| Red Lake County | 833 | 8 | 8 | | |
| Redwood County | 2,550 | 1,020 | 510 | | |
| Renville County | 2,486 | 497 | 945 | | |
| Rice County | 7,153 | 1,288 | 1,574 | 5 | 5 |
| Rock County | 1,305 | 548 | 261 | | |
| Roseau County | 3,925 | - | - | | |
| Scott County | 9,143 | 1,737 | 91 | | 3 |
| Sherburne County | 13,559 | 1,627 | 136 | | |
| Sibley County | 2,606 | 365 | 886 | | |
| St. Louis | 32,086 | 11,872 | 963 | | |
| Stearns County | 16,436 | 2,794 | 329 | | 45 |
| Steele County | 3,028 | 908 | 606 | | |
| Stevens County | 1,182 | 24 | 355 | | |
| Swift County | 3,969 | 1,985 | 1,072 | | |
| Todd County | 8,278 | 2,070 | 828 | | |
| Traverse County | 846 | 152 | 42 | | |
| Wabasha County | 3,966 | 873 | 476 | | |
| Wadena County | 3,648 | 1,058 | 511 | | |
| Waseca County | 2,328 | 466 | 372 | | |
| Washington County | 14,691 | 441 | 441 | | |

**Appendix C: Comparison of Estimated Number of Non-compliant SSTS
by County to Projects Funded**

| Jurisdiction | Total # SSTS | Calculated # of Failing | Calculated # of ITPH | CWF SSTS Projects in FY 2010 | CWF SSTS Projects in FY 2011 |
|---------------------|---------------------|------------------------------------|---------------------------------|---|---|
| Watonwan County | 1,292 | 323 | 388 | | |
| Wilkin County | 1,060 | 594 | 32 | | |
| Winona County | 4,735 | 1,515 | 568 | | |
| Wright County | 15,101 | 4,530 | 302 | | |
| Yellow Medicine | 1,737 | 434 | 434 | | |
| TOTALS | 465,290 | 107,995 | 35,197 | 136 | 172 |

Appendix D: Comparison of Estimated 2011 Non-compliant Feedlots to Projects Funded

| County | All Feedlots Required to be Registered by County | Estimated Non-Compliant Feedlots under 300AU** | # of CWF Feedlot Projects in FY 2010 | # of CWF Feedlot Projects in FY 2011 |
|-------------------|---|---|---|---|
| Aitkin | Data not available* | Data not available* | 1 | |
| Anoka | Data not available* | Data not available* | | 2 |
| Benton | Data not available* | Data not available* | 3 | |
| Big Stone | 64 | 13 | | |
| Blue Earth | 292 | 52 | | |
| Brown | 371 | 77 | | 2 |
| Carver | 265 | 66 | | |
| Clay | 114 | 26 | | |
| Cottonwood | 274 | 54 | | |
| Dakota | 203 | 40 | | |
| Dodge | 257 | 54 | 5 | |
| Douglas | 410 | 106 | 1 | |
| Faribault | 409 | 85 | | |
| Fillmore | 862 | 203 | 3 | 7 |
| Freeborn | 331 | 73 | | |
| Goodhue | 679 | 166 | | 1 |
| Houston | 446 | 112 | 1 | 1 |
| Jackson | 328 | 60 | | |
| Kandiyohi | 415 | 94 | | |
| Lac Qui Parle | 170 | 38 | | |
| Lake of the Woods | 29 | 8 | | |
| Le Sueur | 190 | 36 | | |
| Lincoln | 416 | 103 | | |
| Lyon | 278 | 18 | | 1 |
| Marshall | 67 | 16 | | |
| Martin | 376 | 48 | | |
| McLeod | 354 | 89 | | |
| Meeker | 296 | 72 | | |
| Morrison | 566 | 130 | 5 | |
| Mower | 354 | 70 | | |
| Murray | 449 | 85 | | |
| Nicollet | 307 | 66 | | |
| Nobles | 403 | 71 | | 1 |
| Norman | 43 | 11 | | |
| Olmsted | Data not available* | Data not available* | | 3 |
| Pennington | 53 | 12 | | |
| Pipestone | 492 | 106 | | |
| Polk | 81 | 18 | | |
| Pope | 329 | 79 | | 1 |
| Red Lake | 43 | 9 | | |
| Renville | 281 | 60 | 2 | |
| Rice | 338 | 77 | | |
| Rock | 472 | 92 | | |
| Scott | 168 | 42 | | |
| Sibley | 327 | 77 | | |
| Stearns | 1,502 | 364 | 3 | |

| Appendix D: Comparison of Estimated 2011 Non-compliant Feedlots to Projects Funded | | | | |
|---|---|---|---|---|
| County | All Feedlots Required to be Registered by County | Estimated Non-Compliant Feedlots under 300AU** | # of CWF Feedlot Projects in FY 2010 | # of CWF Feedlot Projects in FY 2011 |
| Steele | 271 | 58 | | |
| Stevens | 135 | 22 | | |
| Swift | 138 | 28 | | |
| Todd | 723 | 183 | | |
| Traverse | 40 | 8 | | |
| Wabasha | 507 | 129 | | 2 |
| Wadena | 129 | 31 | | |
| Waseca | 212 | 43 | 1 | |
| Washington | Data not available* | Data not available* | 2 | |
| Watonwan | 163 | 29 | | |
| Winona | 589 | 143 | 9 | 16 |
| Wright | 292 | 72 | | 2 |
| Yellow Medicine | 288 | 63 | | |
| Grand Totals: | 17,591 | 3882 | 36 | 39 |

*Counties that do not participate in the MPCA delegated County feedlot program

**Data based on 2011 registration data from MPCA database. Assumes 27% of feedlots under 300 AUs non-compliant