



FY 2014 Clean Water Fund Outcomes

Minnesota Board of Water and Soil Resources





Clean Water Fund Goal

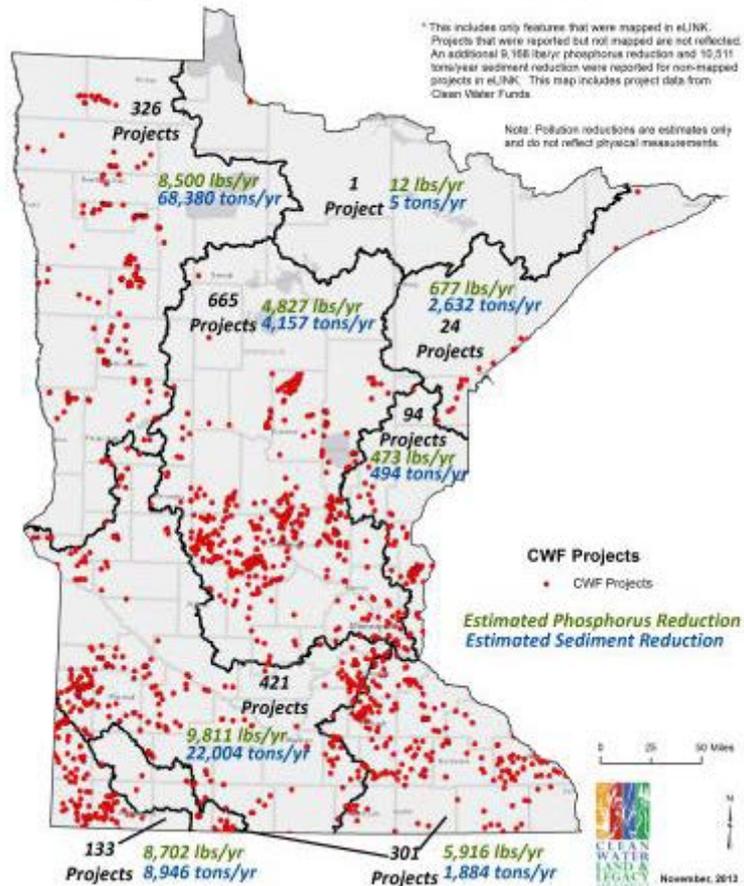
BWSR's Clean Water Fund goal is to help meet statewide water quality goals through the prevention and reduction of non-point source pollution.

- The Competitive Grants program works through the local conservation delivery system to fund projects that are prioritized and targeted to the most critical source areas.
- CWF easements provide permanent protection of private land in riparian and groundwater locations, resulting in improved surface water quality and the health and security of community water supplies.



Overview of Projects To-Date

2010-2013 Projects and Estimated Pollution Reductions by Major Basin

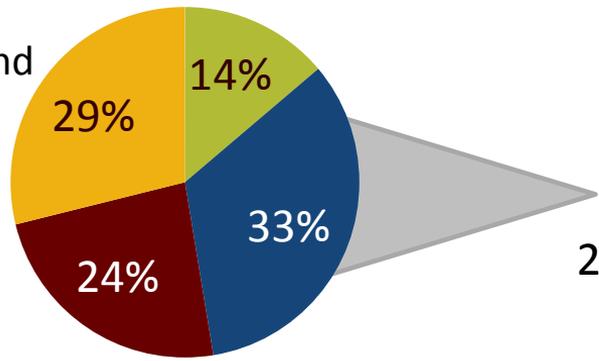




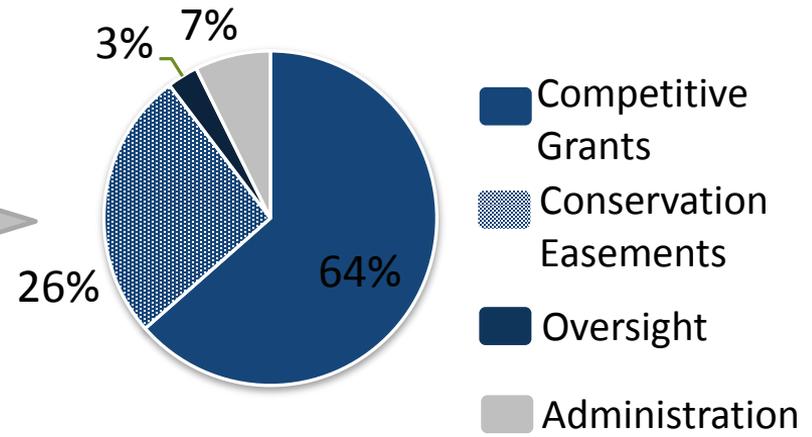
Budget Overview

BWSR Revenue for FY14

- Outdoor Heritage Fund
- Clean Water Fund
- Other Funds
- General Fund

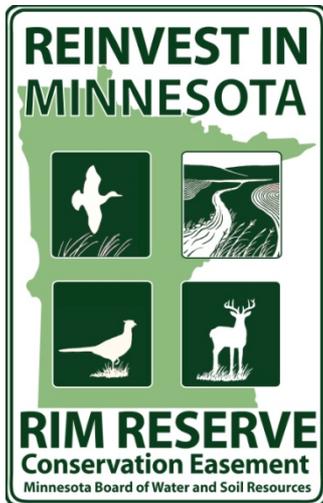


Clean Water Fund FY14 Budget





Conservation Easement Programs



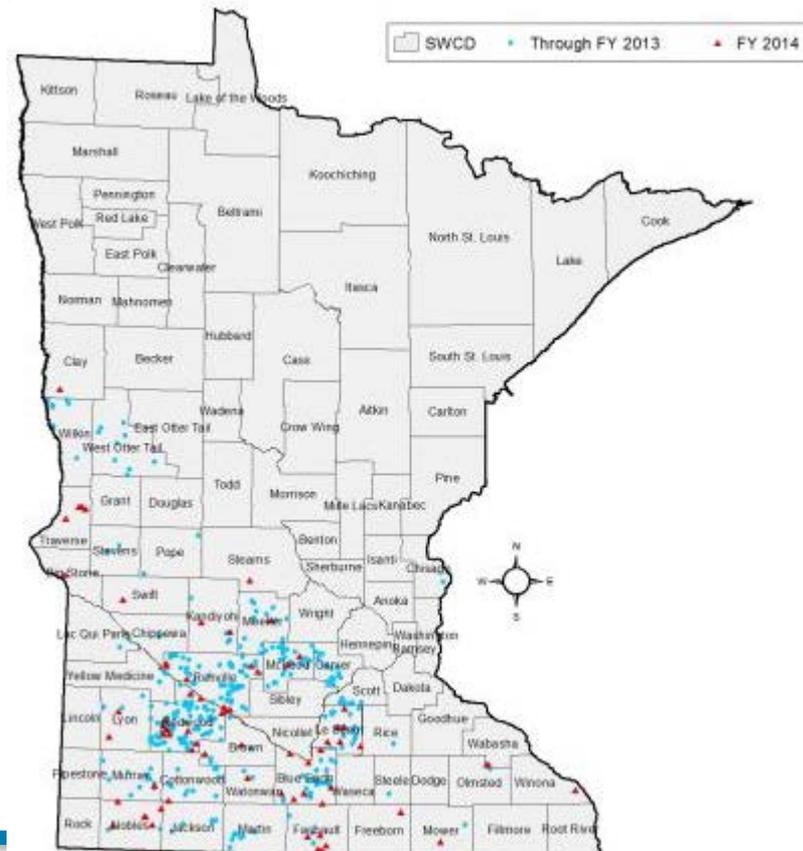
Program	FY14 Appropriation
Riparian buffer conservation easements	\$6.5 million
Wellhead protection conservation easements	\$1.3 million



Riparian Buffer Program

Reinvest In Minnesota (RIM) Reserve

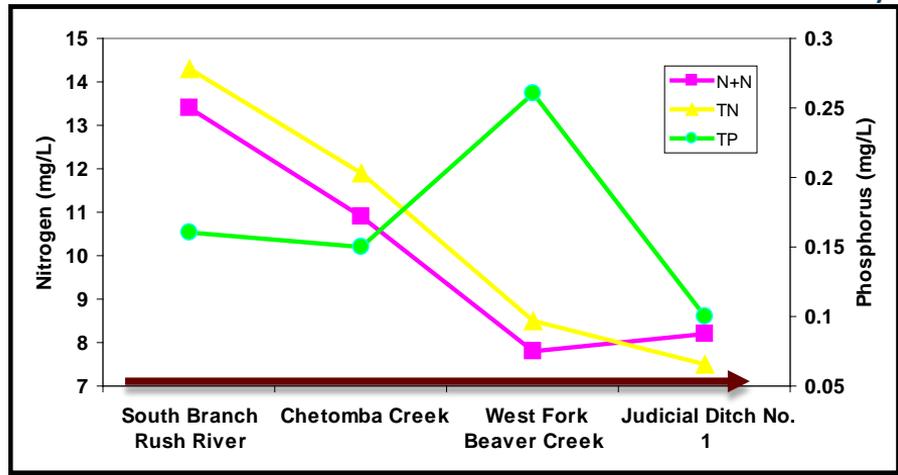
FY 2014
Easements: 76
Acres: 988
Funds: \$6.5M



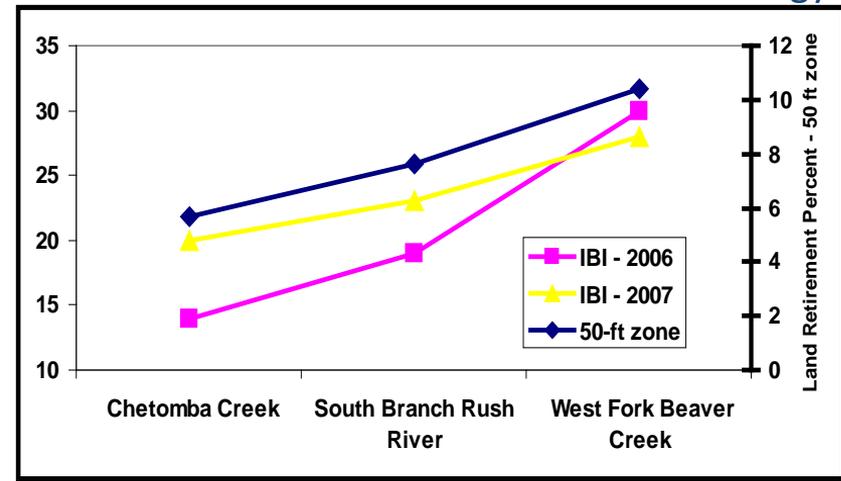


Riparian Buffer Study Outcomes

Chemistry



Biology



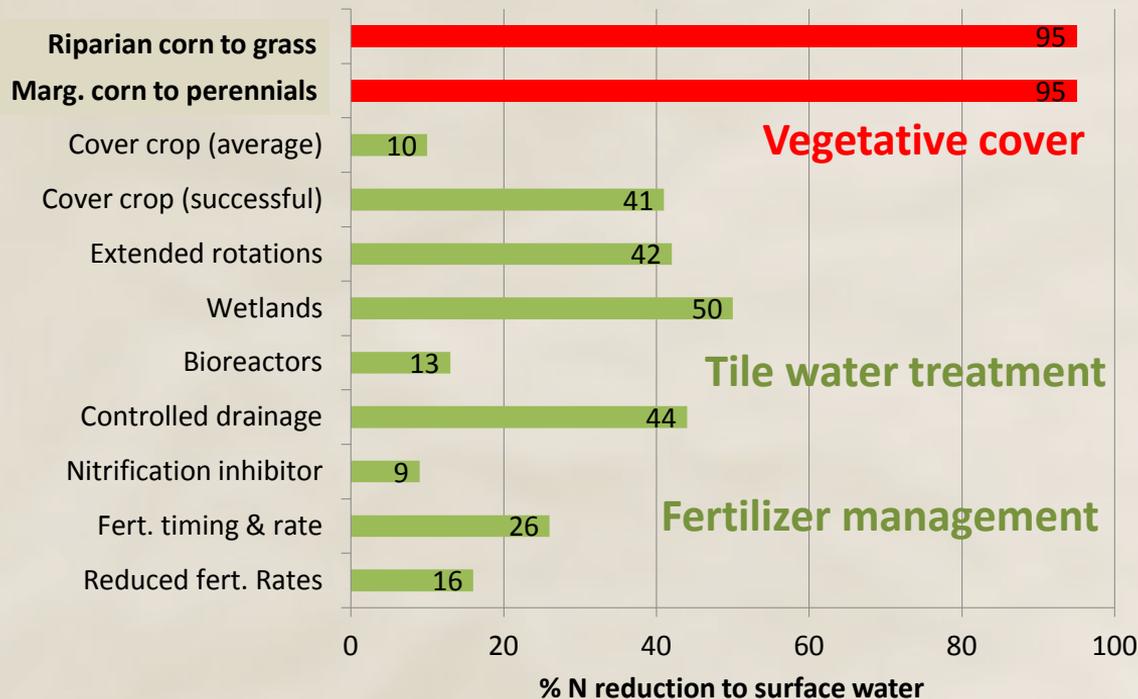
Increasing land retirement results in increased environmental benefits.





Riparian Buffers: Key Strategy for Nitrogen Reduction

% nitrogen reduction in treated area





Wellhead Protection Easement

2010-2013

Easements: 16

Acres: 1,018

- Estimate 500 acres (250 per year) will be protected with FY14 appropriation
- Perpetual easements are the only tool available for permanently reducing the threat.



Competitive Grants/Local Implementation

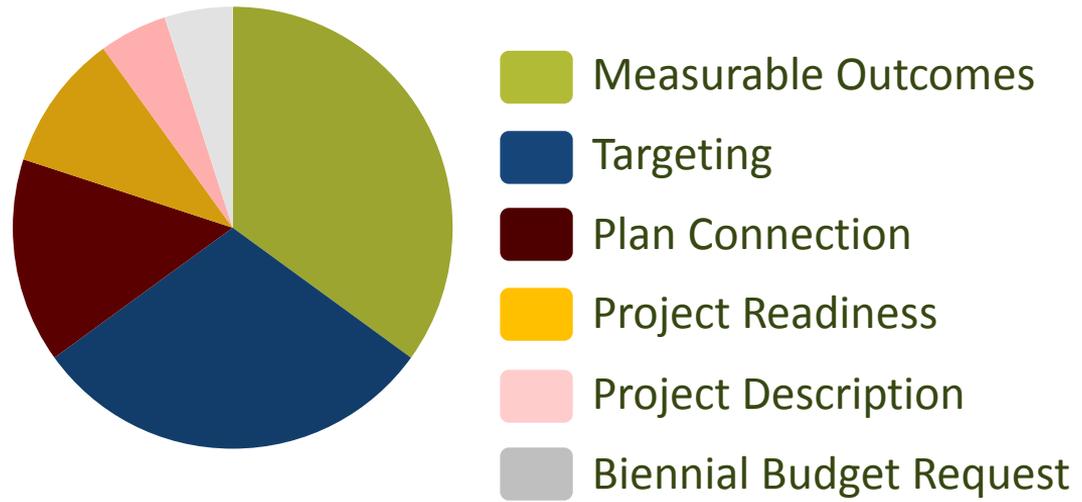
Program	FY 2014 Allocation
Projects and Practices	\$ 8.4 M
Accelerated Implementation	\$ 2.2 M
Accelerated Implementation: Shared Services	\$ 2.0 M
Community Partners Conservation Program	\$.86 M
Soil Erosion and Drainage Law Compliance	\$ 1.1 M
Targeted Watershed Demonstration Program	\$ 5.0 M
One Watershed, One Plan	\$.45 M



Selection Process

BWSR asks for projects that are prioritized, targeted and capable of achieving measurable results.

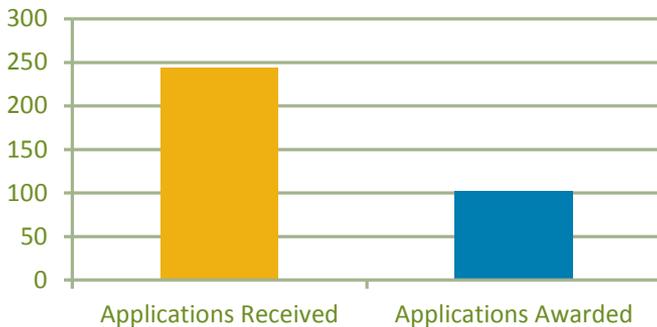
Projects and Practices Weighted Criteria





Supply and Demand

2014 CWF Competitive Grant Applications



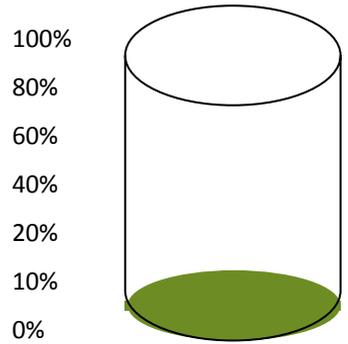
2014 CWF Competitive Grant Funding





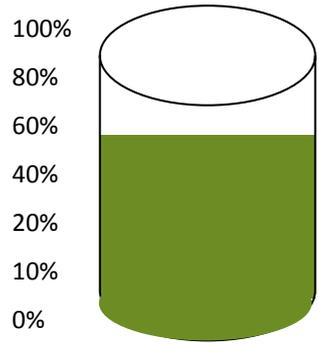
Context for outcomes

St. Croix River



1% toward goal
62% toward goal

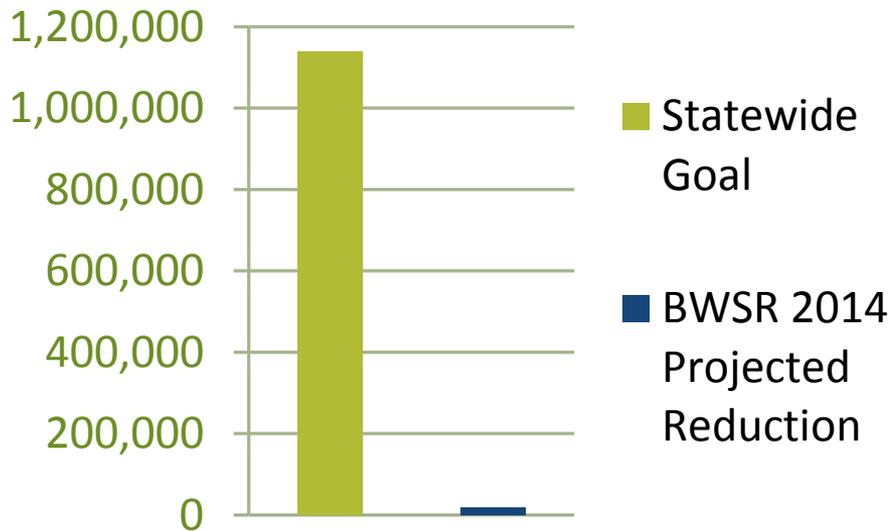
Comfort Lake



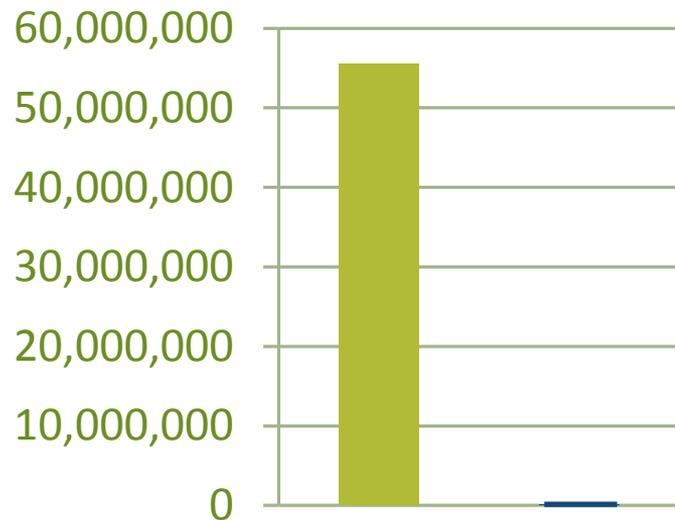


2014 Statewide Pollutant Reduction Goals

Phosphorus (lbs/yr)



Nitrogen (lbs/yr)

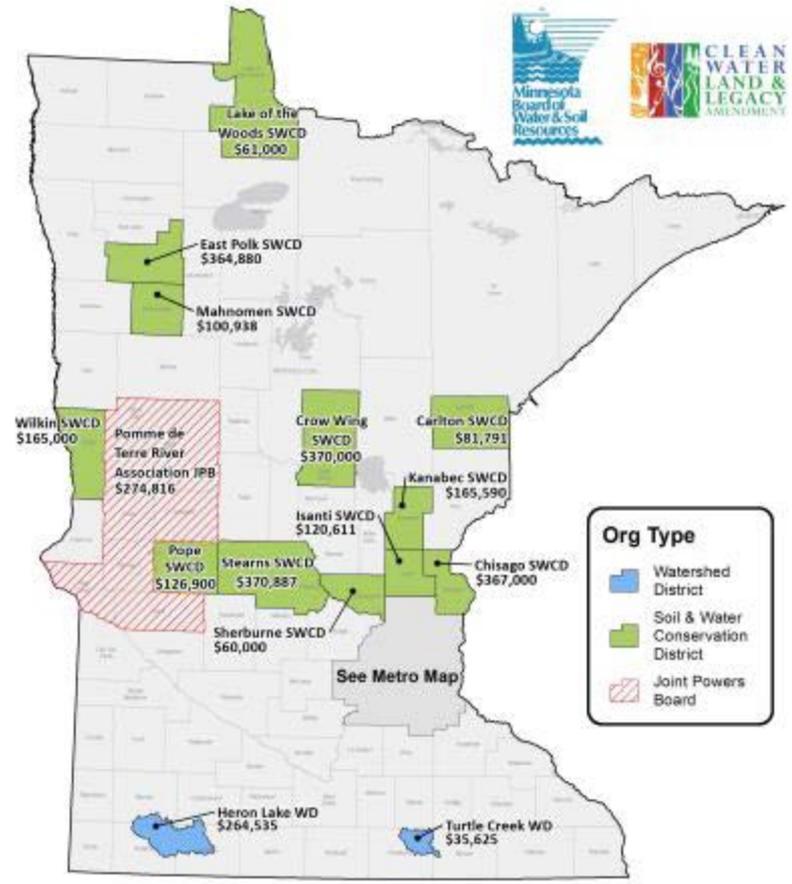


Goals as outlined by the draft MN Nutrient Reduction Strategy



Projects and Practices Grants: Outstate

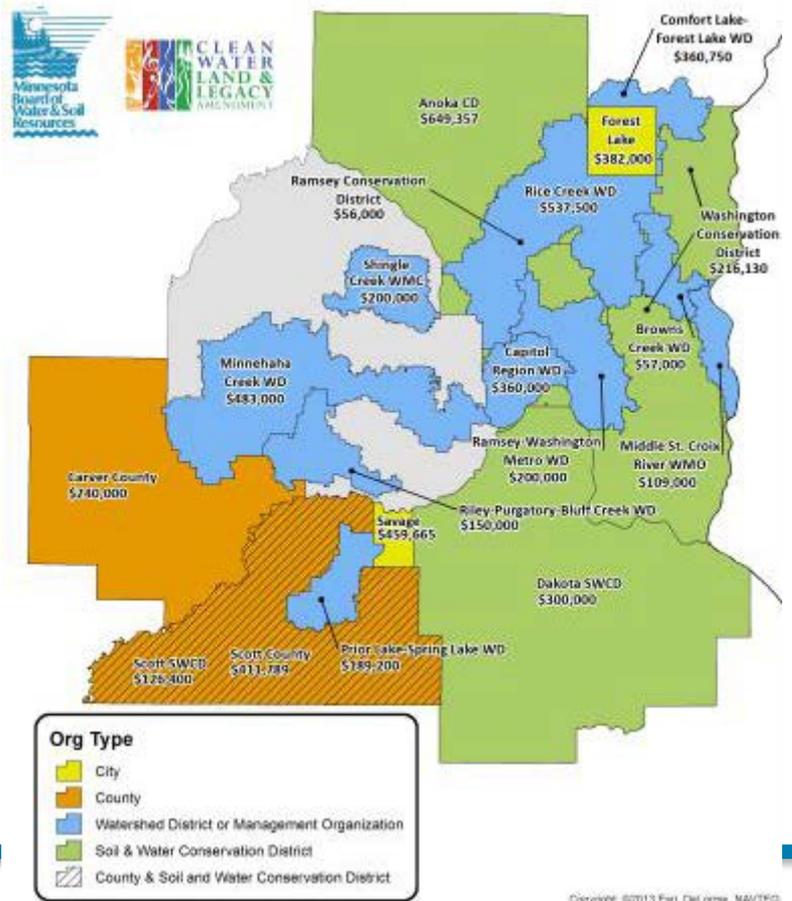
FY 2014 Funding:
\$2,929,573





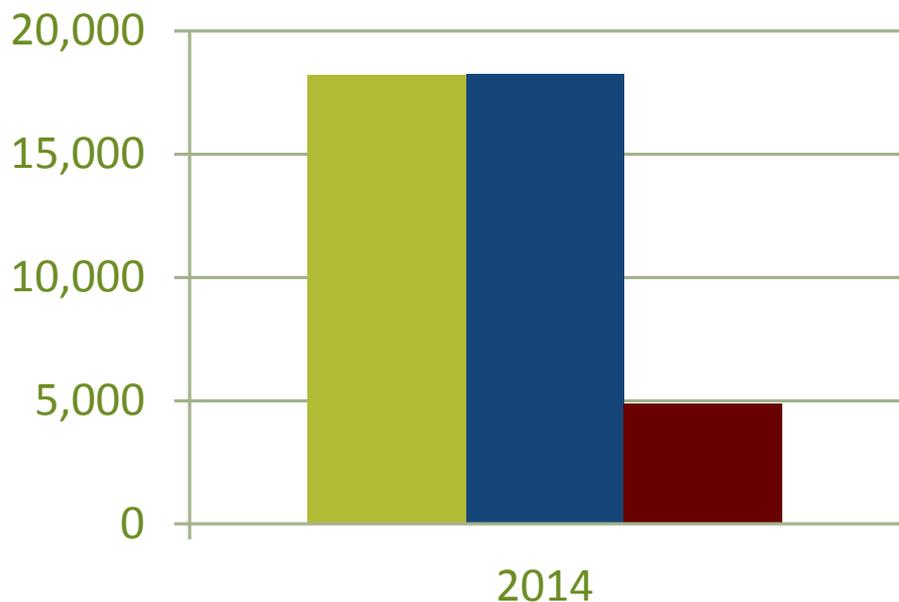
Projects and Practices Grants: Metro

FY 2014 Funding: \$5,487,791





FY 2014 Projects and Practices Estimated Pollution Outcomes



40 Projects Funded
28 address impairments as
listed by MPCA.

- Total Phosphorus Reduction (Lbs/Year)
- Total Sediment Reduction (T/yr)
- Nitrogen (lbs/yr)



Serpent Lake Protection: Deerwood Comm. Flood and Stormwater Control Project

FY 2014 Grant Award: \$370,000



**Projected Pollution
Reduction:
Phosphorus (27 lbs/yr)**



100%
80%
60%
40%
20%
10%
0%



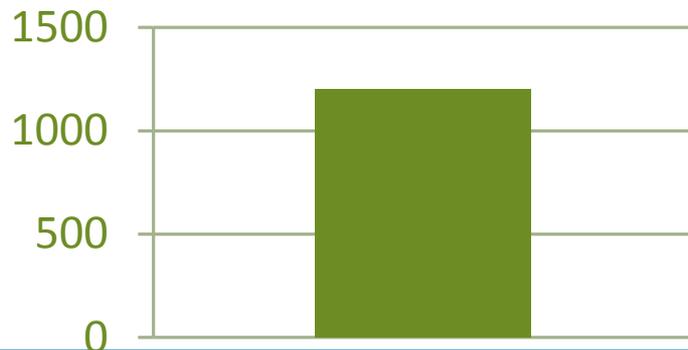


Red River Sediment Reduction Project

FY2014 Grant Award: \$165,000



**Projected Pollution
Reduction: Sediment
(1,200 tons/yr)**



100%
80%
60%
40%
20%
10%
0



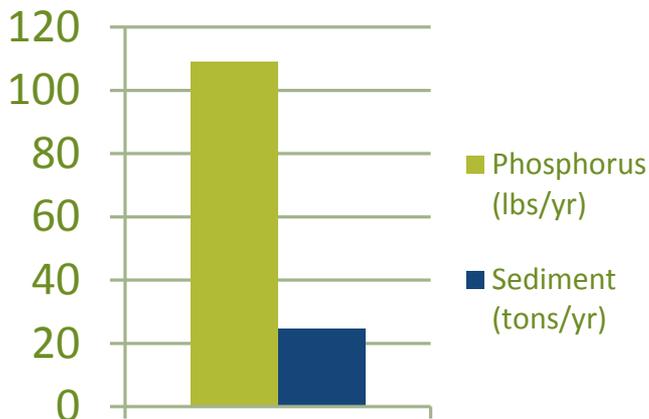


Oak Glen Creek Stormwater Pond Expansion and Iron Enhanced Sand Filter Retrofit

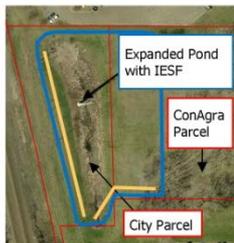
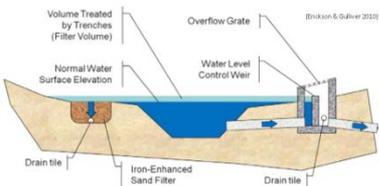
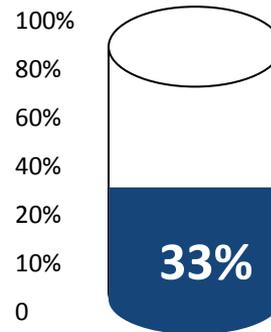
FY 2014 Grant: \$517,780



A 520 acre area drains to the existing stormwater pond and the open channel section of Oak Glen Creek, which then flows to the Mississippi River.



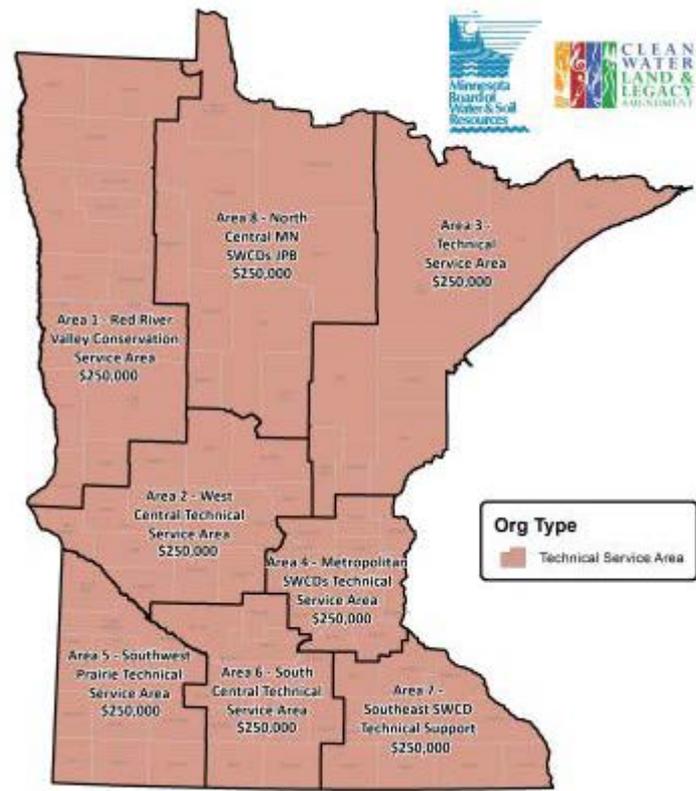
Projected Outcomes





Accelerated Implementation Grants: Shared Services

FY 2014 Funding: \$2,000,000





TSA 7: Improving Soil Health

FY 2014 Grant Award: \$250,000

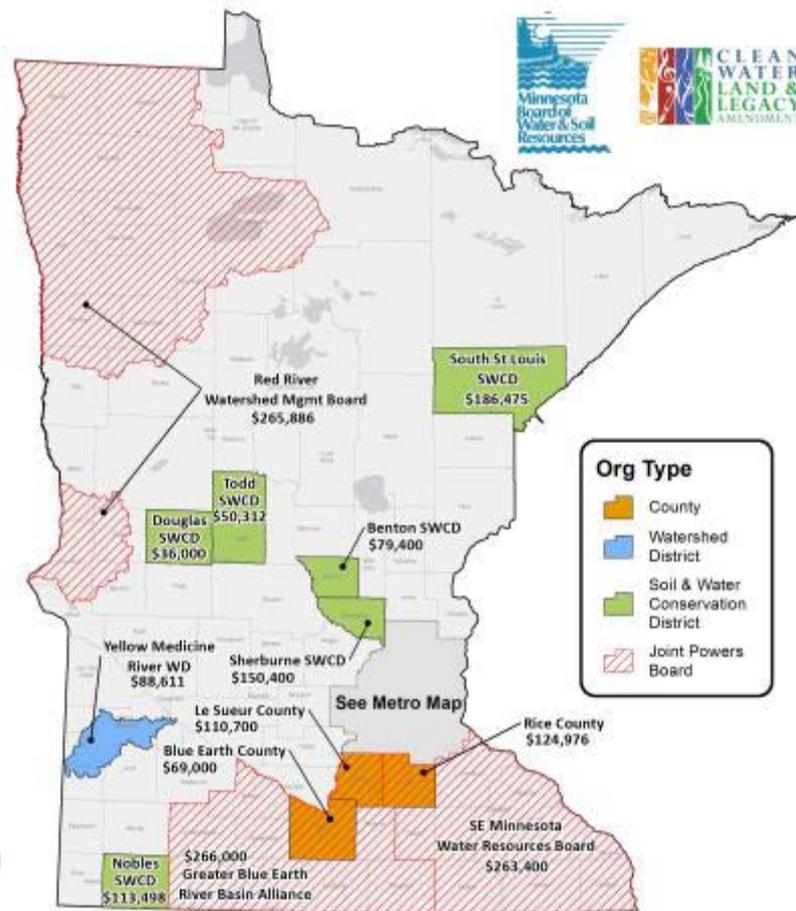
- Accelerates the adoption of soil health practices
- Targets managed grazing and cover crops
- Expected output: an additional 50 producers/year who would adopt cover crop practices





Accelerated Implementation Grants: Outstate

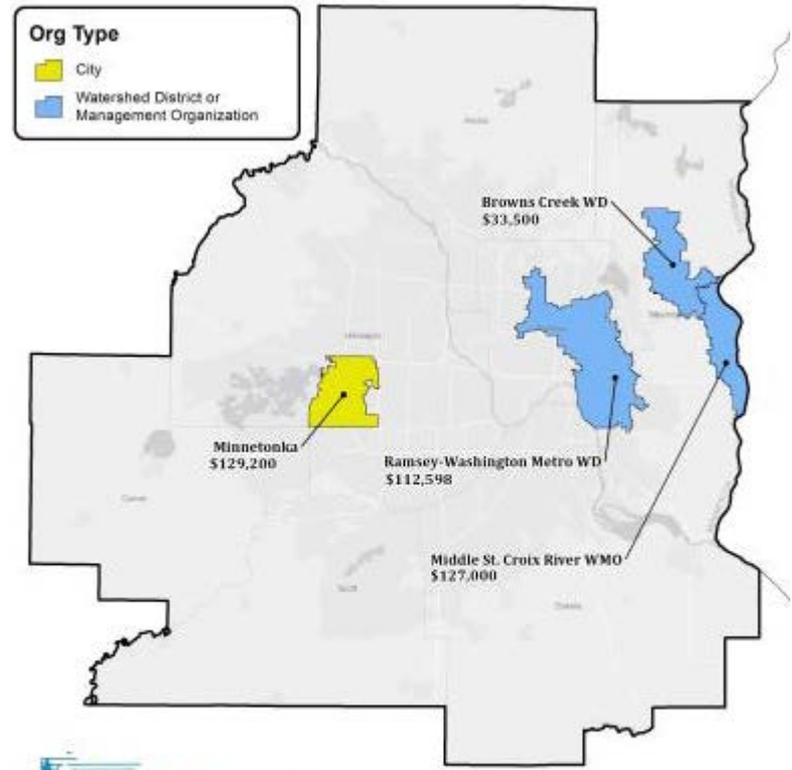
**FY 2014 Funding:
\$1,804,658**





Accelerated Implementation Grants: Metro

**FY 2014 Funding:
\$402,298**





Integrating MIDS into Local Ordinance and Zoning Code

FY 2014 Grant Award: \$127,000

Project Goal:

- Up to 13 communities in the St. Croix River Basin will adopt ordinance for stormwater quality and volume standards.

Results:

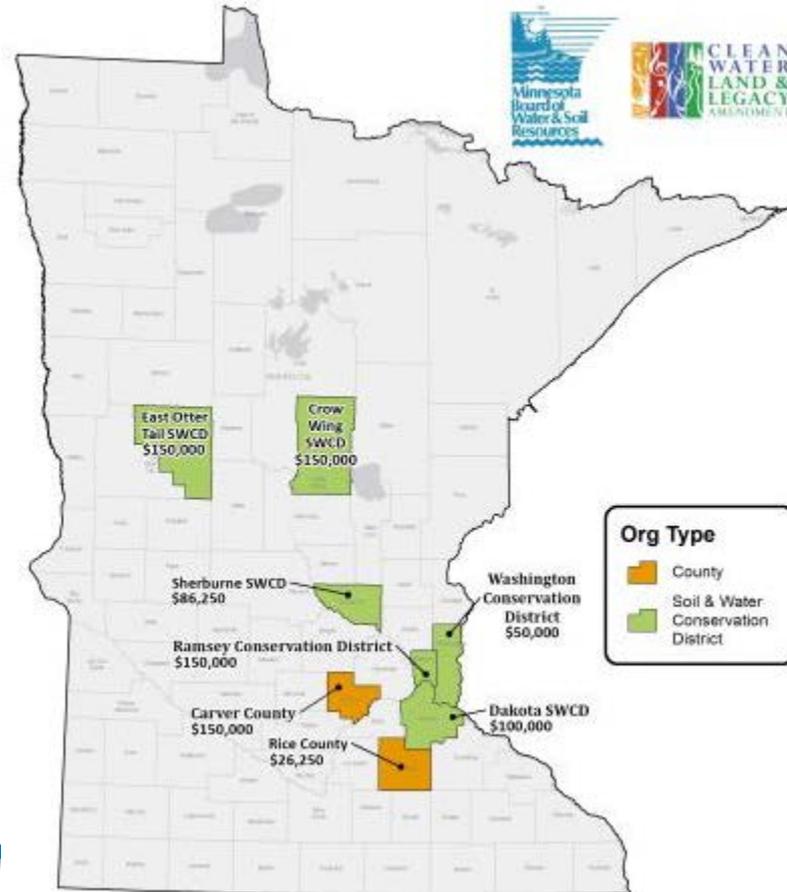
- Permanent local permitting processes
- Standardized Low Impact Development (LID) stormwater approaches





Community Partners Conservation Program Grants

**FY 2014 Funding:
\$862,500**





Otter Tail Community Partners Grant

FY 2014 Grant Award: \$150,000

Project Goal:

- Will provide targeted community groups to go beyond planning and take action to protect their water resources

Results:

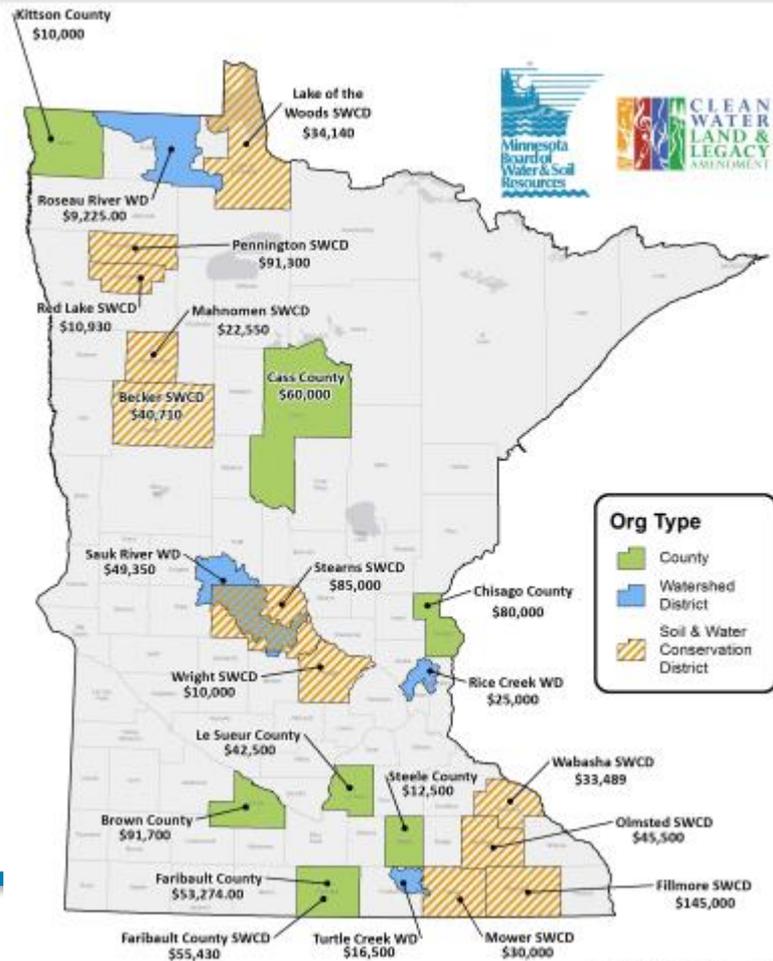
- 6 community partner sub-grants to lake associations with recently completed lake assessment reports





Soil Erosion and Drainage Law Compliance Program Grants

FY 2014 Funding:
\$1,355,000

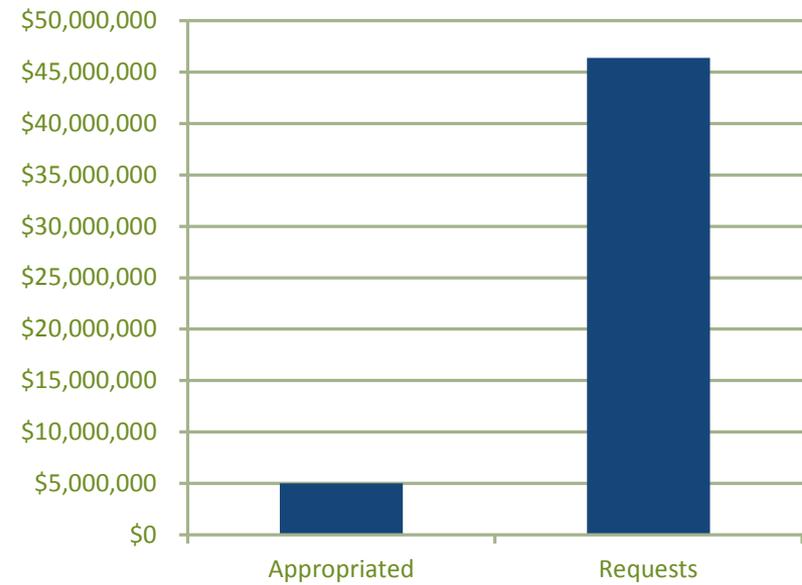




Targeted Watershed Demonstration Program Grants

**FY 2014 Funding:
\$5,000,000**

FY 2014 Targeted Watershed Demonstration Program Response





One Watershed One Plan





BWSR 2012 Legislation

BWSR may adopt resolutions that allow (local plans to) serve as substitutes for one another or be replaced with a comprehensive watershed management plan.

BWSR shall establish a suggested watershed boundary framework.





Water governance evaluation 2013 Report to the Legislature

Implement Water Management
at a **Watershed Scale** at **All Levels of Government**

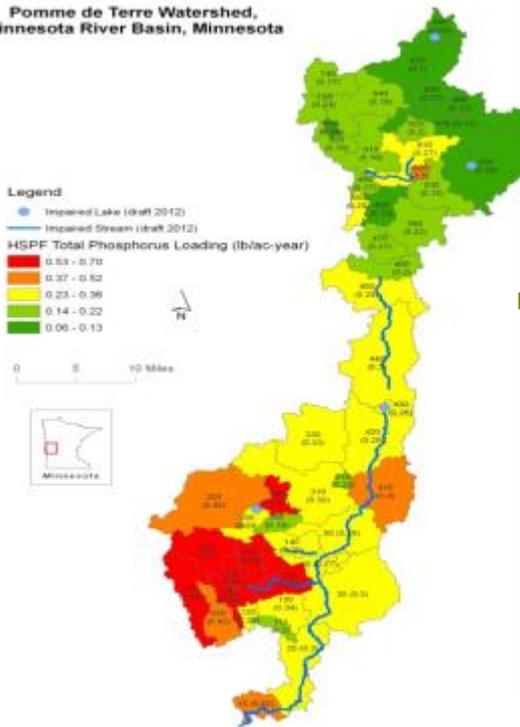
*Establish the 2012 “one watershed-one plan” legislation as the **preferred option for local watershed management** outside the Metropolitan Area.*

*Define **essential watershed management services** for defined watershed outcome.*



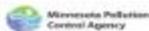


Pomme de Terre Watershed, Minnesota River Basin, Minnesota



Clean Water Accountability Act (2013)

*Make Plans
Prioritized
Targeted &
Measureable*



Sec. 12. Minnesota Statutes 2012, section 114D.15, is amended by adding a subdivision to read:

Subd. 13. **Watershed restoration and protection strategy or WRAPS.** "Watershed restoration and protection strategy" or "WRAPS" means a document summarizing scientific studies of a major watershed no larger than a hydrologic unit code 8 including physical, chemical, and biological assessment of the water quality of the watershed; identification of impairments and water bodies in need of protection; identification of the major stressors and sources of pollution, both point and nonpoint; TMDL's for the impairments; and an implementation table containing strategies and actions designed to prevent and maintain water quality standards and goals.

13. 114D.26J WATERSHED RESTORATION AND PROTECTION STRATEGIES.

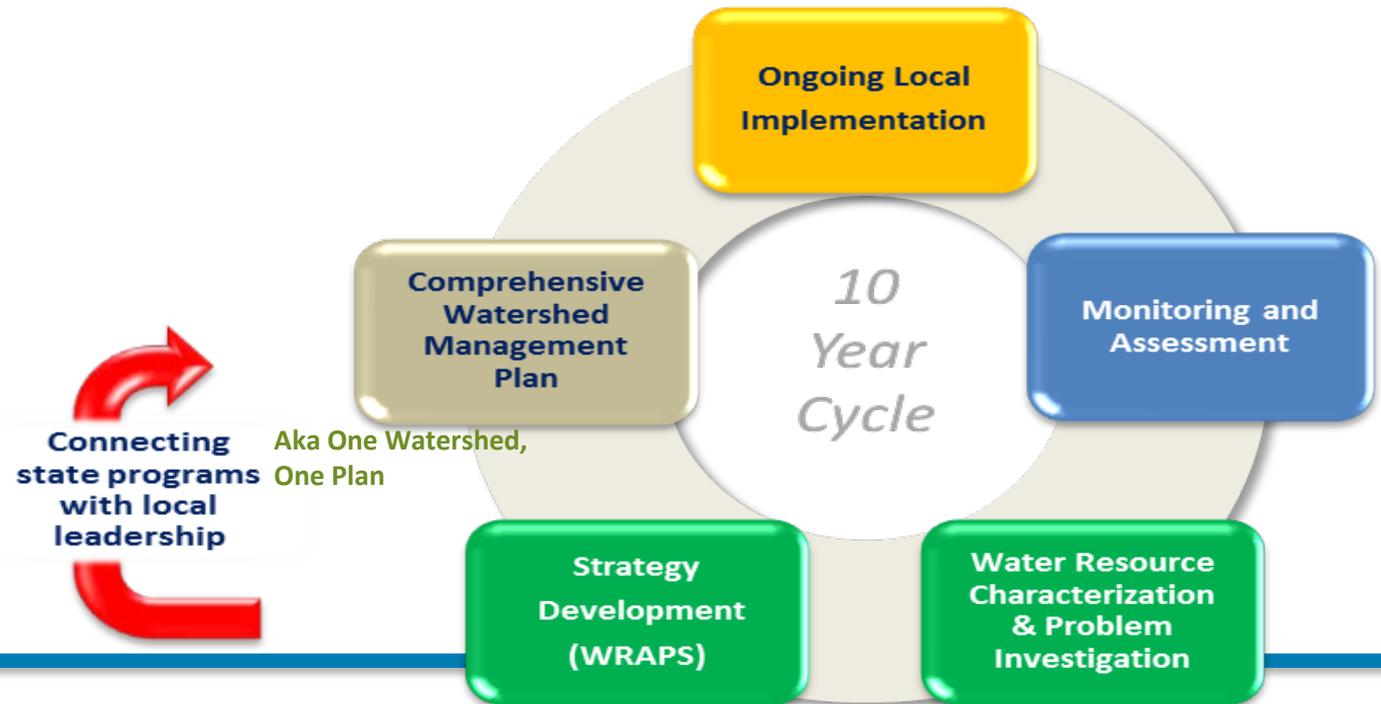
Subdivision 1. **Contents.** The Pollution Control Agency shall develop watershed restoration and protection strategies. To ensure effectiveness and accountability in meeting the goals of this chapter, each WRAPS shall:

- Identify impaired waters and waters in need of protection;
- Identify biotic stressors causing impairments or threats to water quality;
- Summarize watershed modeling outputs and resulting pollution load allocations, allocations, and priority areas for targeting actions to improve water quality;
- Identify point sources of pollution for which a national pollutant discharge system permit is required under section 115.03;
- Identify nonpoint sources of pollution for which a national pollutant discharge system permit is not required under section 115.03, with sufficient specificity to geographically locate watershed restoration and protection actions;
- Identify the current pollution loading and load reduction needed for each source to meet water quality standards and goals, including waste...



2013 Minnesota Water Management Framework

A high-level, multi-agency, collaborative perspective on managing Minnesota's water resources





Clean Water Fund Appropriation

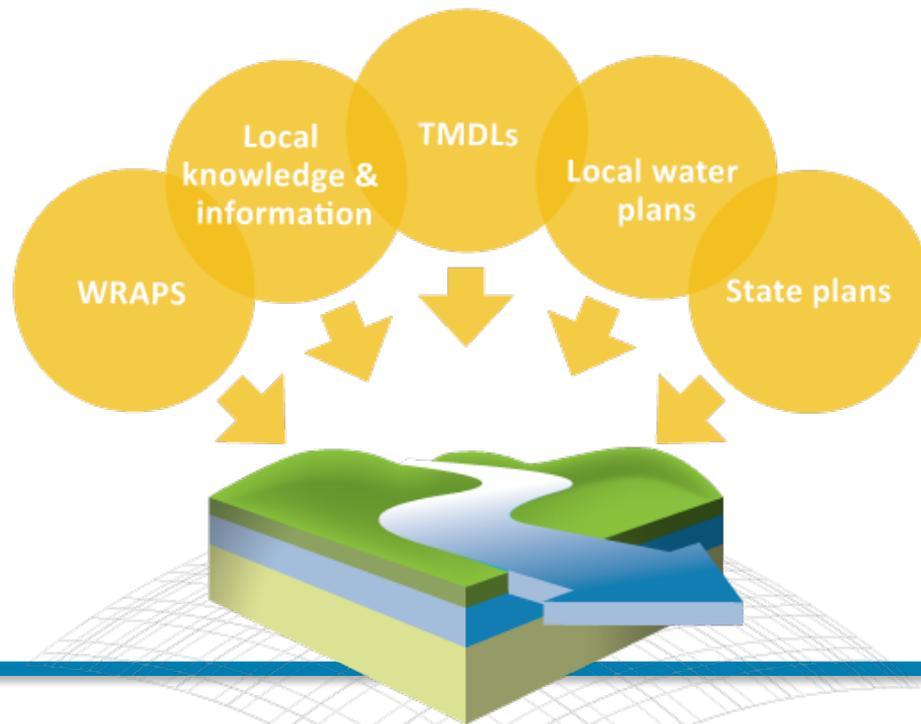
- \$900,000 (FY2014-15) for assistance and grants to local governments to transition local water management plans to a watershed approach

M.S. Chapters 103B, 103C, 103D, and 114D.





One Watershed, One Plan Framework





One Watershed, One Plan Outcomes

- Shared understanding on the definitions of prioritized, targeted, & measurable
- Agreed upon methods and tools for PTM
- Establish water quality goals and targets by parameter of concern at the sub-watershed level
- Identify specific strategies and actions needed to achieve established restoration and/or protection strategies & targets



One Watershed, One Plan Outcomes continued....

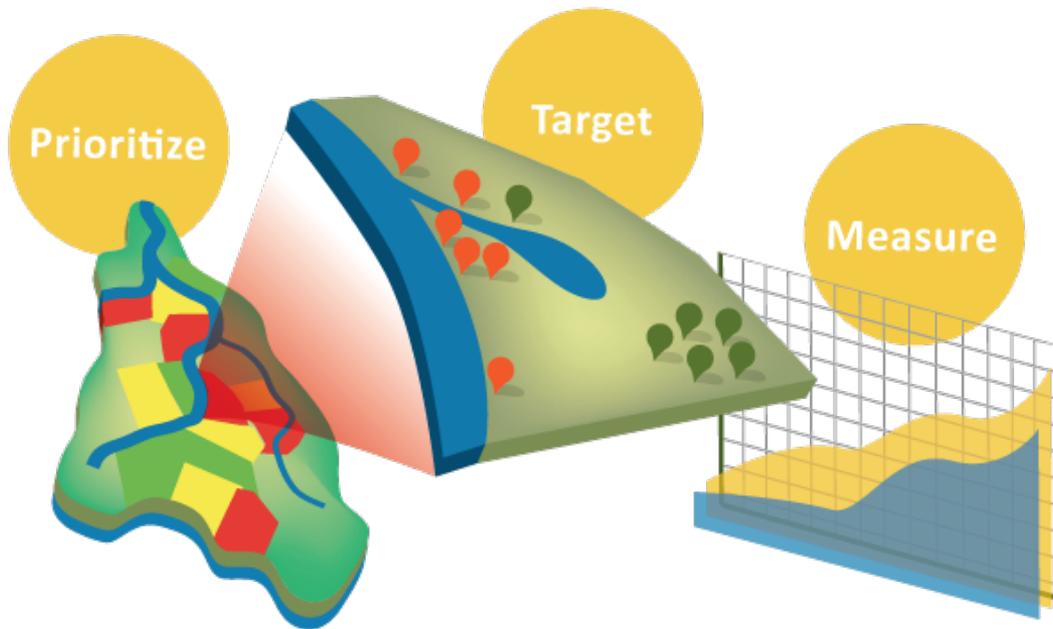
- Include short-term (10 year) & long-term (20 year) quantifiable milestones
- Identify the implementing authorities & establish timelines & cost estimates based on these milestones
- 200+ plans to less than 100 plans
- Serve to coordinate the collection, ranking & submission of requests for funding to the State & other sources.



One Watershed, One Plan 2014

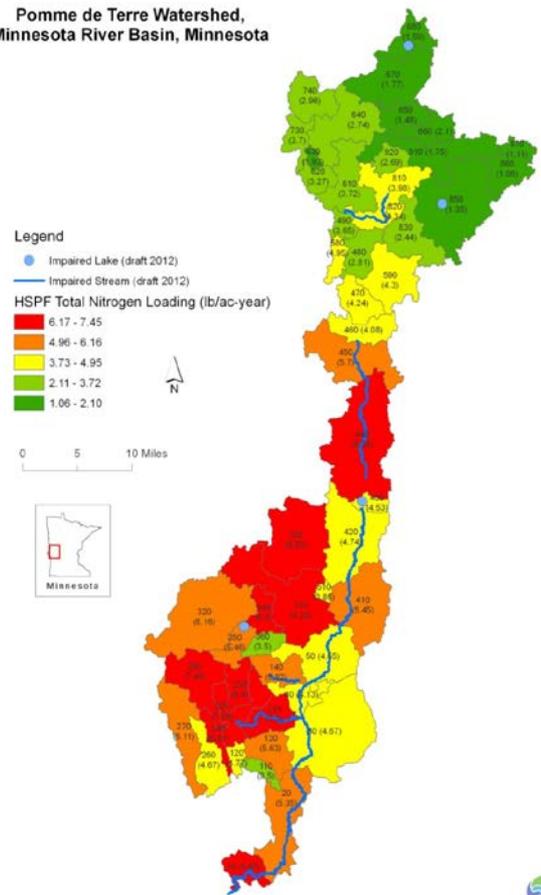
- Framework adopted by BWSR June 2013
- U of M contract to inventory, assess, and develop prioritize, target, and measure method Sept. 2013
- Guiding Principles & draft boundary map Dec. 2013
- Pilot watershed request for interest Feb. 2014
- 5 of 13 operating procedures completed March 2014
- Selection of 4 pilot watershed areas June 2014
- Initiate permanent program Dec. 2015

Conceptualizing PTM





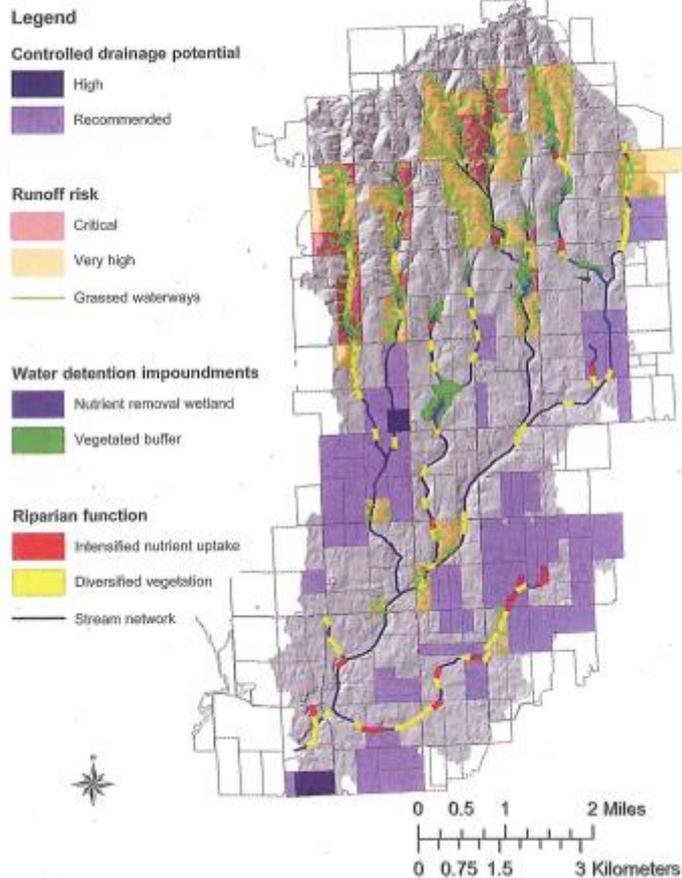
Pomme de Terre Watershed,
Minnesota River Basin, Minnesota



Priority Sub-Watersheds For Nitrogen Loading

Figure 6

One possible conservation planning scenario for Lime Creek.



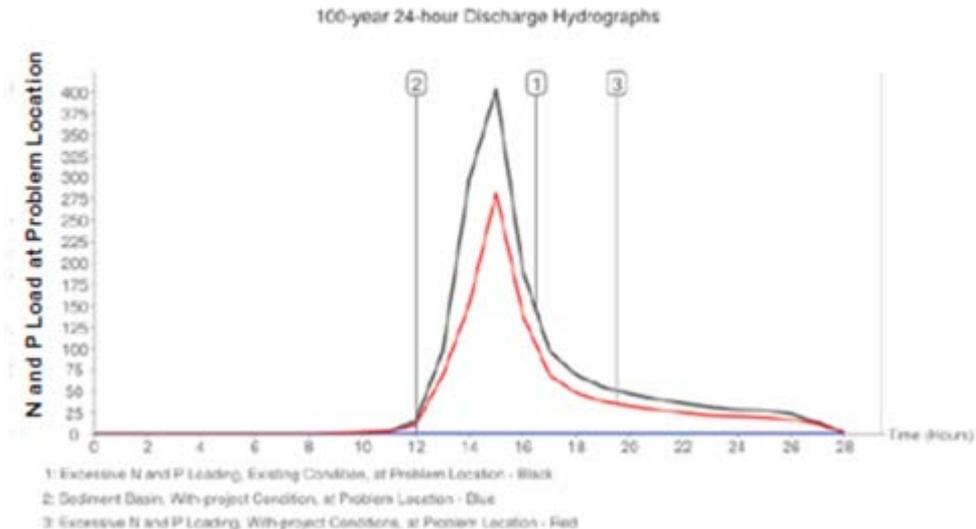
Sub-watershed Targeting Of Conservation Activities



Estimate Results of Targeting (Measurability)

**PLANNED ACTIONS
CAPABLE OF
ACHIEVING
MEASUREABLE
RESULTS**

Estimated Results for Cumulative Projects at Excessive N and P Loading Problem





CLEAN
WATER
LAND &
LEGACY
AMENDMENT