

## Trust Fund 2008 Work Program

**Date of Report:** June 24, 2008  
**Date of Next Status Report:** January 2009  
**Date of Work program Approval:**  
**Project Completion Date:** June 30, 2011

### I. PROJECT TITLE: Southeast Minnesota Showcase Stream Restoration Projects

**Project Manager:** Jeff Hastings  
**Affiliation:** Trout Unlimited  
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**City / State / Zip :** Westby, WI 54667  
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**Location:** Dakota, Goodhue, Wabasha, Olmsted, Winona, Fillmore and Houston Counties

**Total Trust Fund Project Budget:** **Trust Fund Appropriation:** \$240,000  
**Minus Amount Spent:** \$           0  
**Equal Balance:** \$240,000

**Legal Citation:** M.L. 2008, Chap. [ ], Sec. [ ], Subd. 4(g)

**Appropriation Language:** \$240,000 is from the trust fund to the commissioner of natural resources for an agreement with Trout Unlimited to accelerate stream bank stabilization projects on at least six miles of streams through restoration, providing technical assistance, and conducting workshops. This appropriation is available until June 30, 2011, at which time the project must be completed and final products delivered, unless an earlier date is specified in the work program.

### II. PROJECT SUMMARY AND RESULTS:

This project will enable Trout Unlimited (TU) to accelerate streambank stabilization and restoration on six miles of stream in Southeast Minnesota while building the capacity of area government agencies and private citizens to implement future stream restoration projects.

Early European settlement and agricultural practices from the 1850's to the 1930's led to wide scale erosion, flooding, and altering of streams and valleys in Southeast Minnesota. Hundreds of miles of clean coldwater spring creeks were inundated with tons of fine sediment as a result. Although land-use practices,

erosion control, and stream health have improved tremendously since the 1930s, the legacy of the past continues to haunt Southeast Minnesota coldwater streams. Many of the streams today still have steep eroding banks, incised channels, and poor in-stream habitat. Annual sedimentation coming off streambank ranges from 250 to 1000 tons per mile and is responsible for as much as 85% of the total sediment load that enters the stream.

Nevertheless, future prospects for Minnesota's coldwater streams are potentially good. The rivers and fisheries have responded well to techniques to control erosion such as stabilizing streambanks with limestone rock covered with soil and seeded to native vegetation, reconnecting streams to the floodplain, and improving instream habitat for wildlife.

Through this project, TU will educate and train private citizens and federal, state, and county agency employees on doing effective stream restoration while collaboratively working with them to restore approximately six miles of stream in Southeast Minnesota. Project participants will build their capacities for implementing effective stream restoration projects in the future through the knowledge and experience gained and the partnerships established. Proposed target areas for restoration include parts of the Cannon River in Dakota County, Hay Creek in Goodhue County, Zumbro River in Wabasha County, Mill Creek in Olmsted County, Whitewater River in Winona County, Root River in Fillmore County, and Winnebago River in Houston County.

### **III. PROGRESS SUMMARY AS OF *(date)*:**

### **IV. OUTLINE OF PROJECT RESULTS:**

#### **Result 1: Eight Showcase Stream Restoration Projects**

**Description:** Working with private citizens and federal, county, and state agency employees, TU will collaborate to stabilize and improve habitat on over 6 miles of streams in Southeast Minnesota with at least one project in each of the targeted counties (i.e. Dakota, Goodhue, Wabasha, Olmsted, Winona, Fillmore, and Houston). Contractors will be hired to work on incised channels to shape and reconnect the stream to their floodplains, with side slopes of 3:1 or better. Eroding banks will be stabilized using a combination of rock riprap (covered with soil to the waterline), native species plantings, and the installation of habitat structures for trout and nongame species where appropriate and identified in Minnesota's Wildlife Action Plan.

Because these projects will be built along streams, which have a high potential for historic sites, project review and approval by both State and Tribal Historic Preservation Officers will be obtained. All permits and approvals, and their associated fees will be paid for by the sponsoring agency, and not part of this grant. Furthermore, all projects will follow standard, internally established protocol of routing all permits for projects through DNR's Lanesboro Area trout habitat program staff. Prior to the start of any projects, Trout Unlimited Project Manager will meet with the DNR's Lanesboro Area fisheries staff and staff from the DNR central office to talk over procedure.

Trout Unlimited may provide portions of the proceeds of this agreement to the State to accomplish work specified in the approved work program, by submitting a letter to the authorized contact person for the State. The letter will include: the specific area of the work program authorizing the work; the portion of the proceeds to be used by the State; the name, title address, phone number and e-mail address for the State's representative assigned to accomplish the work; the expected completion date of the work; and a brief description of the nature of the work sufficient as the basis for judgment of whether or not the work was accomplished.

Trout Unlimited has developed the following criteria for prioritizing project funding:

1. Cold water streams having sufficient natural reproduction to sustain populations of wild trout and an easement for public access to fish has been, or will be obtained.
2. Coldwater streams having sufficient natural reproduction to sustain populations of wild trout, without an easement, but the public still has reasonable access to the stream reach.
3. Coldwater streams having some natural reproduction but not enough to utilize available food and space and an easement for public access to fish has been, or will be obtained.
4. Coldwater streams having some natural reproduction but not enough to utilize available food and space and without an easement for public access to fish.
5. Coldwater streams that provide marginal trout habitat with no natural reproduction.

**Summary Budget Information for Result 1:** Trust Fund Budget: \$193,333  
Amount Spent: \$  
Balance: \$193,333

<b>Deliverable</b>	<b>Completion Date</b>	<b>Budget Status</b>
1. 2 mi. of stream restored	October 2009	\$60,845
2. 2 mi. of stream restored	October 2010	\$60,845
3. 2 mi. of stream restored	June 2011	\$60,845
4. Organize & lead Volunteer work days	June 2011	\$5,890
5. On-site project supervision	June 2011	\$4,908

**Completion Date: June 2011**

**Result Status as of: January 2009**

**Result Status as of: September 2009**

**Result Status as of: January 2010**

**Result Status as of September 2010**

**Result Status as of: January 2011**

**Result Status as of: June 2011**

**Final Report Summary: August 2011**

**Result 2: Promote, Educate & Accelerate Stream Restoration**

**Description:** Several coordinated efforts will aim to increase the capacities of participants to implement future stream restoration projects, improve cross-jurisdictional coordination and collaboration on future projects, and increase public visibility of projects. Activities include establishing partnerships across public and private entities, holding learning forums and training sessions on conducting effective stream restoration projects, producing educational materials, and conducting outreach. In particular, TU will work to increase the ability of the seven County Soil and Water District and Natural Resources Conservation Service office employees to increase the amount of streambank stabilization and fisheries habitat into their conservation projects in southeast Minnesota. This will multiply many times over the number of conservation professionals able to plan and oversee streambank stabilization and fish habitat restoration projects. Ultimately, this will greatly increase our ability to tap into the significant funding available in Farm Bill conservation programs and make significant strides in improving watershed, stream, and fishery health in southeast Minnesota.

**Summary Budget Information for Result 3: Trust Fund Budget: \$46,667**  
**Amount Spent: \$**  
**Balance: \$46,667**

<b>Deliverable</b>	<b>Completion Date</b>	<b>Budget</b>	<b>Status</b>
1. Write & release 9 News Releases (3 /Yr)	June 2011	\$464	
2. Organize & direct Fall Symposium (one)	Nov. 2009	\$6,130	
3. Organize & lead Stream Restoration Project Planning Workshop	March 2008	\$5,690	
4. Develop & Produce 20 Stream Restoration Manuals	Nov. 2009	\$1,310	
5. Organize & coordinate "Hands-on" workshops	July 2009	\$1,410	
6. 8 - Project partnership signs (3/yr)	June 2011	\$10,850	
7. Coordinate and conduct partnership meetings	June 2011	\$17,236	
8. Help Counties, NGO's write 6 grants	June 2011	\$3,577	

**Completion Date:**

**Result Status as of: January 2009**

**Result Status as of: September 2009**

**Result Status as of: January 2010**

**Result Status as of September 2010**

**Result Status as of: January 2011**

**Result Status as of: June 2011**

**Final Report Summary: August 2011**

**V. TOTAL TRUST FUND PROJECT BUDGET:**

**Staff or Contract Services:** \$40,600 (.25% TU Project manager – over a 3 year period)

**Equipment:** \$0

**Development:** \$ 0

**Restoration:** \$ 182,535 for rock and heavy machinery costs to improve 6 miles of stream.

**Acquisition, including easements:** \$ 0

**Other:** \$ –

- \$1,350 - 6 Volunteer workdays to build structures, seed and mulch projects (food for volunteers and portable toilets);
- \$1,900 - 1 – Fall Symposium in Minnesota on stream restoration and upland watershed management (materials, printing costs, room rental);
- \$2,443 (5037 miles X .485) Travel in Minnesota (project design, meet with counties, state and federal employees, TU Chapters and others, workshops, workdays, etc.)
- \$8,800 – 8 (8 signs x \$1,100) Project Partnership/Demonstration Signs.
- \$1,050– 1 Project Planning Stream Restoration Workshop (how to put together a stream restoration project) includes room rental & materials.
- \$150 - 20 Stream Restoration manuals for “hands on workshop”.
- \$250 – 1 “Hands-on-Workshop” demonstrating various conservation and instream habitat practices (portable toilets).

**TOTAL TRUST FUND PROJECT BUDGET: \$240,000**

**Explanation of Capital Expenditures Greater Than \$3,500:**

**VI. OTHER FUNDS & PARTNERS:**

**A. Project Partners:** U.S. Fish and Wildlife Service, National Fish and Wildlife Foundation, National Fish Habitat Action Plan, SE Watershed Organizations, Basin Alliance for the Lower Mississippi in Minnesota, Minnesota Department of Natural Resources, Twin Cities TU, Kiap TU Wish TU, Hiawatha TU, Win Cres TU, Southeast Soil & Water Conservation Districts and Natural Resource Conservation Service Offices.

**B. Other Funds Proposed to be spent during the 3 year Project Period:**

Landowners	\$ 50,000.00
TU Chapters (labor & cash)	\$ 71,000.00
US Fish & Wildlife Service	\$ 20,000.00
National Fish Habitat Action Plan	\$ 85,000.00
Trout & Salmon foundation	\$ 10,000.00

National Fish and Wildlife Foundation	\$ 20,000.00
Farm Bill programs (EQIP & WHIP)	\$116,000.00
Other NGO's (ex. Pheasants Forever)	\$ 10,000.00
Corporations (ex. Patagonia)	<u>\$ 10,000.00</u>
	\$392,000.00

**C. Past Spending:** *Estimated past spending on stream restoration – past 2 years.*

Landowners	\$ 17,000.00
TU Chapters (labor & cash)	\$ 22,000.00
US Fish & Wildlife Service	\$ 8,000.00
National Fish Habitat Action Plan	\$ 15,000.00
Trout & Salmon foundation	\$ -
National Fish and Wildlife Foundation	\$ 15,000.00
Farm Bill programs (EQIP & WHIP)	\$ 45,000.00
Other NGO's (ex. Pheasants Forever)	\$ 3,000.00
Corporations (ex. Patagonia)	<u>\$ 8,000.00</u>
	\$ 133,000.00

**D. Time:** 3 year period June 2008 to June 2011

**VII. DISSEMINATION:** Project results will be disseminated both locally and nationally. Project profiles will be developed and displayed on the Driftless Area Restoration Effort page of the TU website. Project updates will be emailed quarterly to all the partners and anyone that has requested to be informed of current happenings. To help facilitate an email newsletter Trout Unlimited has created a sign-up sheet on their website allowing easy access to anyone interested in finding out more about projects. Local and state media will also be used to raise awareness of the importance of stream resources and benefits of local restoration projects in the Metro Area. Minnesota stream restoration efforts will be exhibited at the Great Waters Fly Fishing Expo in Minneapolis each year. Finally, a fall symposium is being planned for the Eagle Bluff Environmental Center near Lanesboro. Conservationist from WI, IL, IA and MN will be presenting the latest information on upland watershed protection and coldwater stream restoration.

**VIII. REPORTING REQUIREMENTS:**

**Periodic work program progress reports will be submitted not later than January 2009, September 2009, January 2010, September 2010, January 2011 and June 2011. A final work program report and associated products will be submitted between June 30 and August 1, 2011 as requested by the LCCMR**

**IX. RESEARCH PROJECTS:** N/A

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<b>Attachment A: Budget Detail for 2008 Projects -</b>								
<b>Project Title: Southeast Minnesota Showcase Stream Restoration Projects</b>								
<b>Project Manager Name: Jeff Hastings</b>								
<b>Trust Fund Appropriation: \$ 240,000 (over a 3-year period)</b>								
<b>2007 Trust Fund Budget</b>	<b><u>Result 1 Budget:</u></b>	<b>Amount Spent</b>	<b>Balance (date)</b>	<b><u>Result 2 Budget:</u></b>	<b>Amount Spent</b>	<b>Balance (date)</b>	<b>TOTAL BUDGET</b>	<b>TOTAL BALANCE</b>
	<i>Eight Showcase Stream Restoration Projects</i>			<i>Promote, Educate &amp; Accelerate Stream Restoration Projects</i>				
<b>BUDGET ITEM</b>								
<b>PERSONNEL: wages and benefits</b>	\$ 8,526		\$ 8,526	\$ 32,074		\$ 32,074	\$ 40,600	\$ 40,600
<b>Equipment / Tools Hourly rate for bulldozers, excavators and dump trucks (includes operator)</b>	\$ 90,000		\$ 90,000			\$ -	\$ 90,000	\$ 90,000
<b>Printing- Hands-on stream restoration workshop \$150; Fall symposium materials \$250, Stream restoration project planning workshop \$250</b>				\$ 650		\$ 650	\$ 650	\$ 650
<b>Travel expenses in Minnesota</b>	\$ 922		\$ 922	\$ 2,443		\$ 2,443	\$ 3,365	\$ 3,365
<b>Construction (rock rip-rap, jute netting, seed, mulch)</b>	\$ 92,535		\$ 92,535			\$ -	\$ 92,535	\$ 92,535
<b>Other - Volunteer Workdays - \$1,350 (food, portable toilet,) Fall Symposium \$1,250 (room rental, materials), Signs for projects - \$8,800 (8 signs @ \$1,100 ea), Stream Restoration Workshop \$800 (room rental &amp; materials), "Hands-on-Workshop" \$650 (portable toilets).</b>	\$ 1,350		\$ 1,350	\$ 11,500		\$ 11,500	\$ 12,850	\$ 12,850
<b>COLUMN TOTAL</b>	<b>\$ 193,333</b>	<b>\$ -</b>	<b>\$ 193,333</b>	<b>\$ 46,667</b>	<b>\$ -</b>	<b>\$ 46,667</b>	<b>\$ 240,000</b>	<b>\$ 240,000</b>