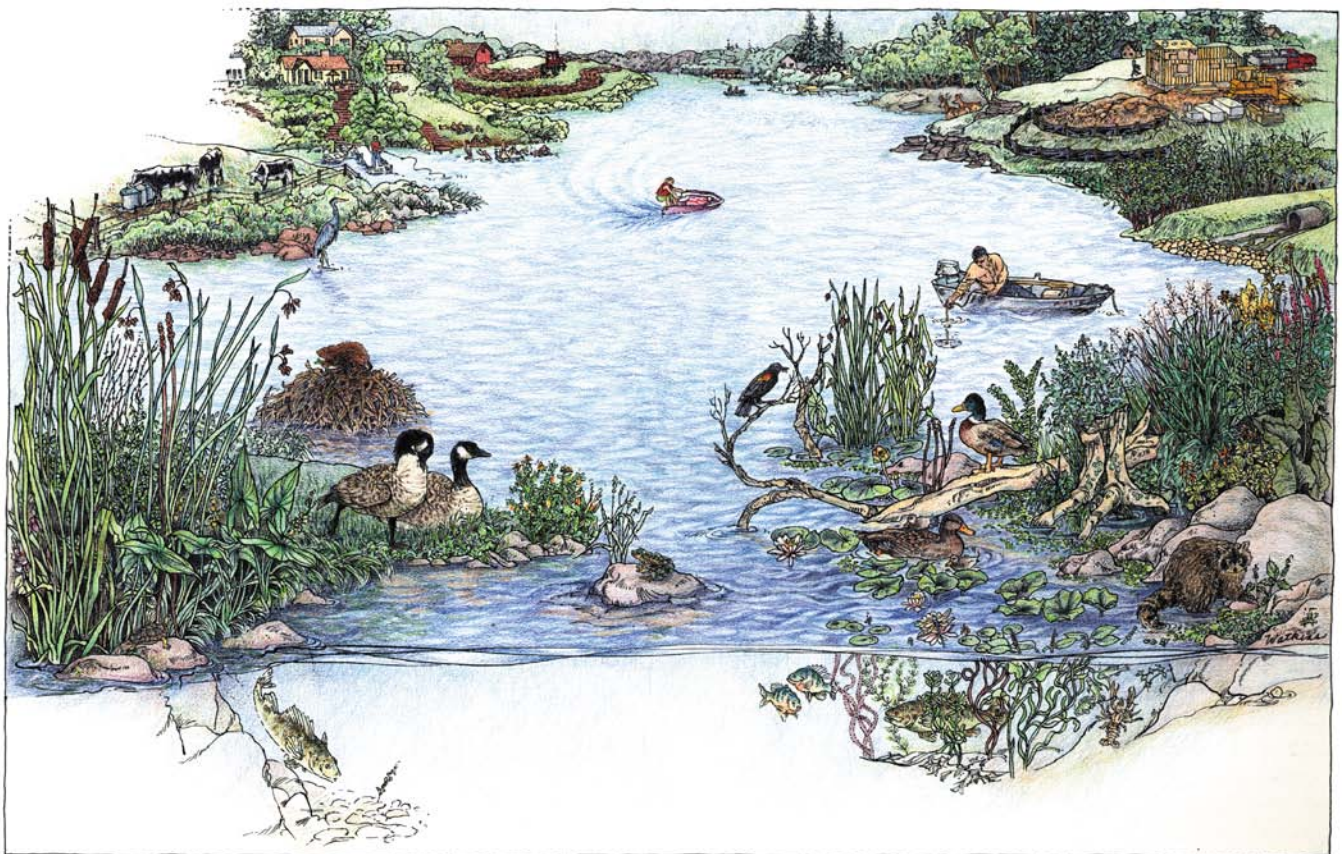


# Crow Wing Soil and Water Conservation District

## 2010 Annual Report



Contained within this Annual Report, are the activities of the Crow Wing Soil and Water Conservation District (SWCD) for the period of January 1, 2010 through December 31, 2010. The SWCD has huge success implementing water quality projects that improve the quality of water and the quality of life in CWC. In 2010, the SWCD has leveraged over \$300,000 in local, state, and federal grants to implement water monitoring programs, shoreline restoration projects, and stormwater management projects including conservation easements on the confluence of the Mississippi River. We were able to utilize our relationship with the Conservation Corps of Minnesota to complete shoreline projects, and provided native trees and plants to CWC residents. In doing these projects, the SWCD partnered with municipalities, lake associations, nonprofits, MN Waters, CWC Master Gardeners, Minnesota Pollution Control Agency, Thirty Lakes Watershed District (TLWD), Brainerd Alternative Learning High School, and other volunteer groups. Below is a list of projects and outcomes completed in 2010.

### **CROW WING SWCD BOARD OF SUPERVISORS**

Robert Becker	Chair	Pine River
Robert Albrecht	Vice Chair	Crosby
Diane Jacobson	Secretary	Brainerd
Leonard Koering	Treasurer	Fort Ripley
Roger Waytashek	Reporter	Crosby

### **CROW WING SWCD STAFF**

Keith Pohl	District Manager	July 1992-Present
Melissa Barrick	Water Planner/Administrative Asst.	Sept. 2008-Present
Beth Hippert	District Technician	Sept. 2006-Present

### **NATURAL RESOURCES CONSERVATION SERVICE**

Mary Jane Reetz	District Conservationist	Aug. 1980-Present
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### **NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY**

Mike Rokus	Soil Survey Project Leader	April 2006-Present
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The Crow Wing Soil and Water Conservation District works cooperatively with the public, nonprofit organizations, and other governmental entities in protecting our water and land resources through the use of conservation practices; providing local leadership for the prudent use and conservation of water, soil, and associated resources while serving as a local natural resource information center.

## COOPERATING ENTITIES

Crow Wing County	MPCA
Crow Wing-Cass FSA	Corps of Engineers
DNR Waters	Thirty Lakes Watershed District
DNR Forestry	DNR Enforcement
BWSR	Crow Wing County Extension
Camp Ripley	Crow Wing County Municipalities
Crow Wing County Lakes & Rivers Alliance	Initiative Foundation
Minnesota Waters	Aitkin County SWCD
Cass County Environmental Services	Morrison SWCD
MNSWCD Forestry Association	MNDOT
WesMin RC&D	Minnesota Forestry Association
Minnesota Erosion Control Association	Brainerd FFA Alumni
Brainerd Lakes Area Environmental Learning	Region 5 Development Commission
North Central Minnesota Joint Powers Board	Board of Water & Soil Resources

### **BWSR Clean Water Grants**

1. Project Recharge Restoring Natural Hydrology to Urban Lakesheds of: Crosslake, Fifty Lakes, Crosby, Breezy Point (\$180,000 Grant 2010-2011):

- a. Completed a total of three shoreline stabilization projects on West Fox and Crosslake.
- b. Completed a total of five shoreline buffer projects on East & West, Crosslake, Rush, and Serpent Lakes.
- c. Installed educational demonstration bioretention/raingardens at the Fifty Lakes City Hall, Crosslake Community Center, Immanuel Lutheran Church, and assisted Thirty Lakes Watershed District with bioretention project at the Breezy Point Resort.

Saving from these projects: 367 tons of sediment per year, 17 pounds of phosphorus, and 6,129,978 gallons of water per year (Wisconsin Department of Natural Resource Model, P8 model, Recarga Model).

2. Conservation Corps of Minnesota (CCM) Grant \$ 8,550:

- a. CCM crew helped complete 300 feet of shoreline restoration at Rollie Johnson Recreational Area, an island located on Upper Whitefish Lake.
- b. CCM Crews helped with Project Recharge shoreline stabilization and shoreline buffer projects a total of five days.

3. Mille Lac Watershed Grant \$23,000: SWCD is collaborating with MNDOT and the DNR to install two bioretention basins on Lake Mille Lac north of the Garrison Concourse this summer.

**Water Monitoring Program: Surface Water Assessment Grant 2010-2011 for \$46,000**

1. Streams and Rivers:

- a. April 2010, trained 10 CWC citizens in stream monitoring and aquatic invasive species identification.
- b. Citizens monitored Little Pine River, Upper Hay Creek, Hay Creek and the Daggett Brook for Total Suspended Solids, Total Phosphorus, E-coli, Nitrate-Nitrite, and Nitrogen, Total Kjeldahl.
- c. SWCD monitored two sites on the Gull River.

2. Lake Monitoring

- a. May 2010, the SWCD partnered with DNR and MN Waters to train over 50 citizens in lake monitoring and aquatic invasive species prevention.
- b. Citizens monitored data deficient Mollie, Unnamed Cranberry, Upper & Lower Mission, Grave, Turner, Reno, and Blue Lakes for phosphorus, chlorophyll-a, and transparency. In addition citizens monitored Perch and Whipple Lakes for additional data as a part of the Crow Wing River Watershed Project. SWCD coordinated the monitoring and submitted samples to the laboratory.

**DNR 5 County Region Grant:** SWCD worked with Cass County to pre-qualify applicants for the Grant Program. Five DNR Grant shoreline restoration projects were completed on Gull, Crow Wing, Red Sand, Ossawinnamakee, and Lower Whitefish Lake.

**Tree Sale Program:** SWCD sold over 13,000 tree seedlings and 2,500 native plant plugs used for conservation purposes such as shoreline restoration, wind breaks, wildlife, and backyard planting.

**Composting Campaign:** Most recently, the SWCD received \$ 41,657 to implement a backyard composting campaign throughout CWC. The SWCD will collaborate with the Northland Arboretum and Master Gardeners to host regional composting workshops and sell low cost backyard composting bins in 2011 and 2012.

The SWCD has become a leader in water quality monitoring, shoreline restoration/bioengineering practices, stormwater management, education, and outreach.