

#### Northern Waters Land Trust



### Annie Knight

**Executive Director** 

#### Northern Waters Land Trust





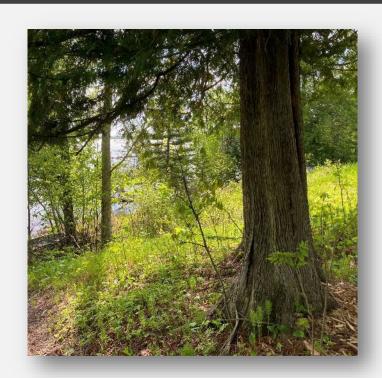


### Northern Waters Land Trust

- Service Area: North Central Minnesota
- Prioritization Tool
  - Protect environmentally-sensitive lakeshore & watershed parcels to create more resilient ecosystems, preserving water quality & wildlife habitat.
- Staff of Specialists
- Volunteer Board of Directors and Committees
- Non-profit: 501(c)(3) organization
- Accredited Land Trust



#### Methods of Conservation



Land Acquisitions



Conservation Easements



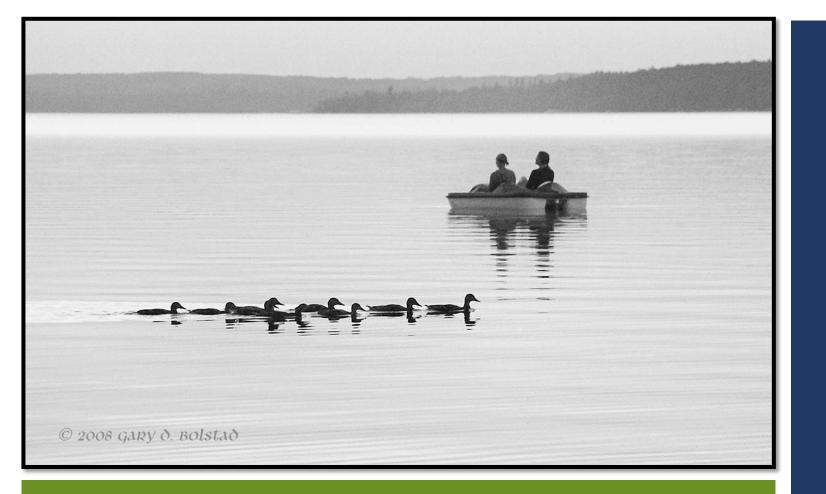
Community Outreach





# Why Conservation Matters





Everything we do on land impacts our water.

## Threats to Freshwater Ecosystems

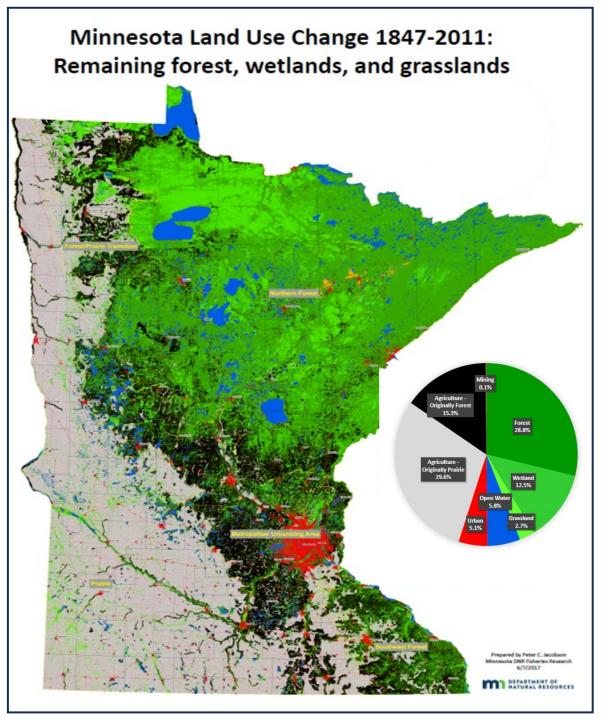
- Ecosystem: all organisms and their physical environment are linked. Components of one system
- Land taken out of its natural state and threatens water quality, habitat, and migratory flyways

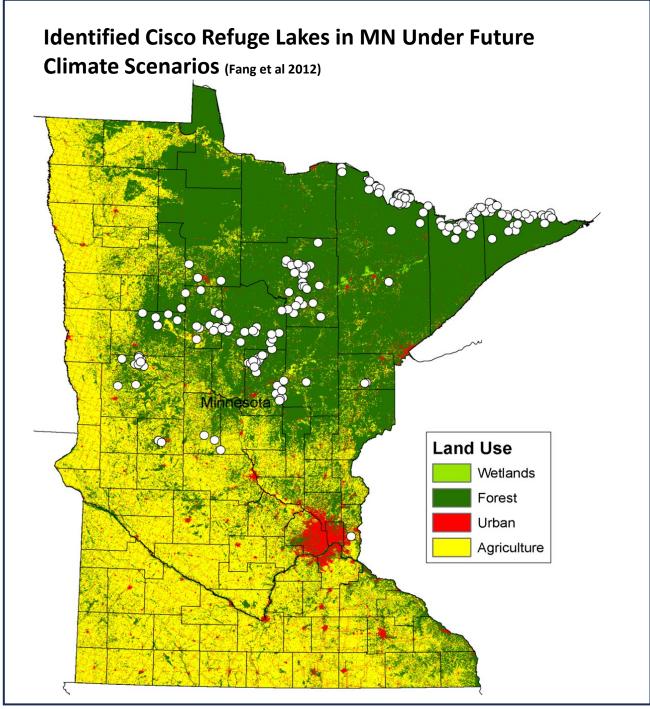


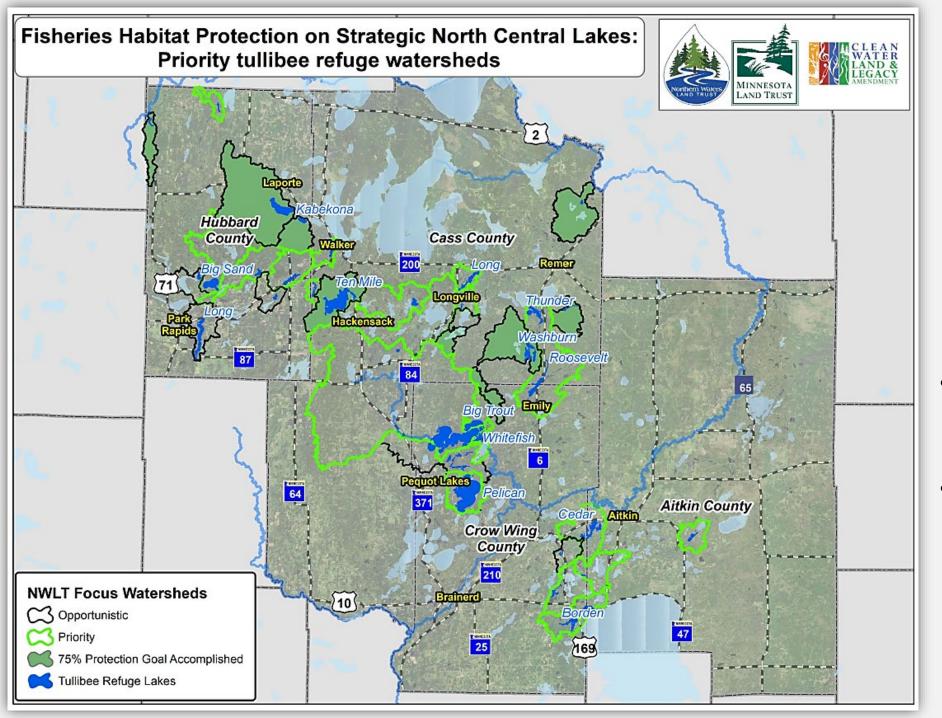
Lakes are a shared space between people and wildlife.

#### Threats to loons

- Shoreline development
- Loss of water quality, aquatic invasive species
- Lead poisoning
- Increased human activity on lakes







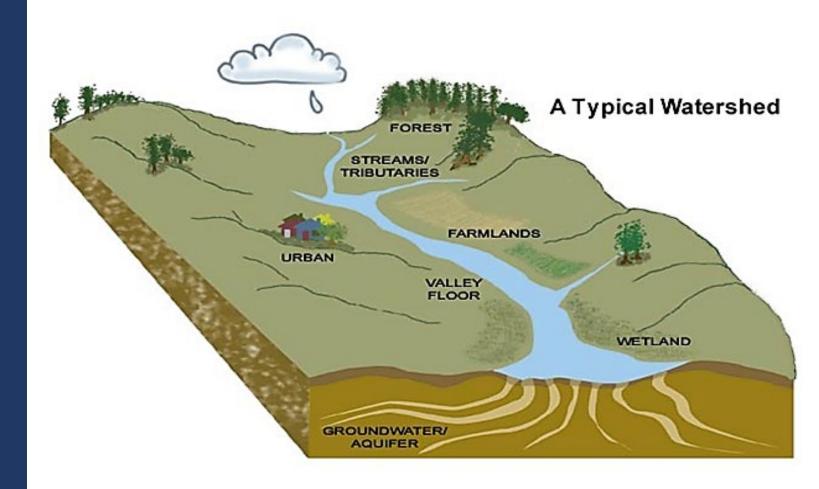
# Land Protection Program since 2014

- \$23 million in grant funding received
- More than 6,000 acres protected so far



## What is a watershed?

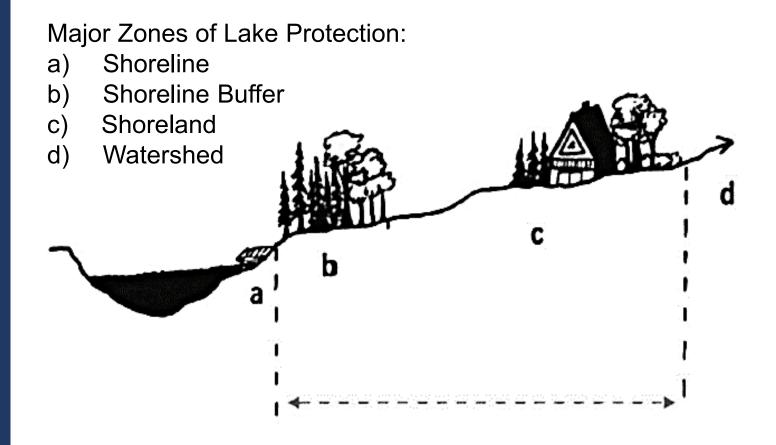
A watershed is an area of land where all of the precipitation (rain or snow) that falls in it drains into a common outlet, such as a river, lake, or stream.





## Role of watersheds in water quality

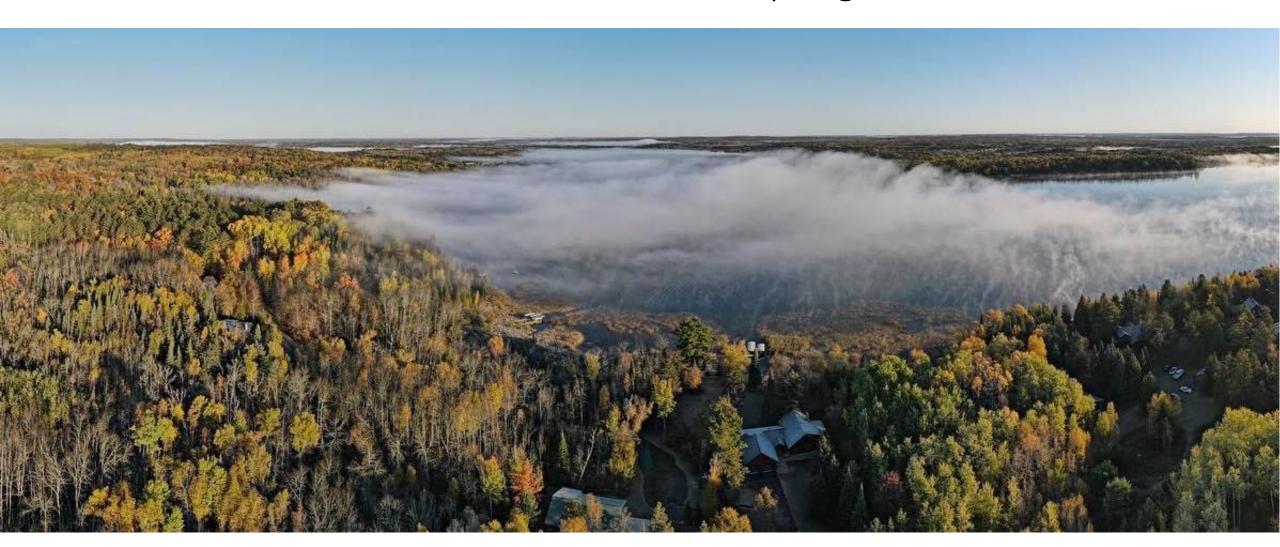
- Water quality dependent on watershed activity
- Conservation protects water quality and wildlife habitat.
- Forests filter and absorb runoff before it enters a lake, protecting water quality.



A healthy lake depends on a healthy watershed.



Why 75%?
Protect the forested "Sponge".



## Ways to Get Involved Easements / Acquisitions

Why this is important

- Replenish Groundwater
- Reduce runoff to surface waters
- Capture and store carbon dioxide
- Produce oxygen and reduce airborne pollution
- Improve resiliency against pests and weather changes
- Provide wildlife habitat

How lake associations can help

- Identify key nesting habitat on their lake
- Help NWLT and/or the MN DNR connect with landowners near these areas
- Advocate for why land conservation is important

### Land Protection Options

#### **Conservation Easement**

- Continue owning your land
- Receive compensation or tax benefit
- Agreed terms between landowner and land trust
- Limits or prohibits future development
- Your property is protected forever

#### Fee Title Acquisition

- Sell or donate land to NWLT
- Receive compensation or tax benefit
- NWLT transfers property to public agency for long-term management
- Land protected forever





Conservation Easement - 200 ft.

Shoreline \_\_\_\_\_ 100 ft. \_\_\_\_\_ 200 ft. \_\_\_\_\_



Objectives: No development on the 200 feet and retention of open space

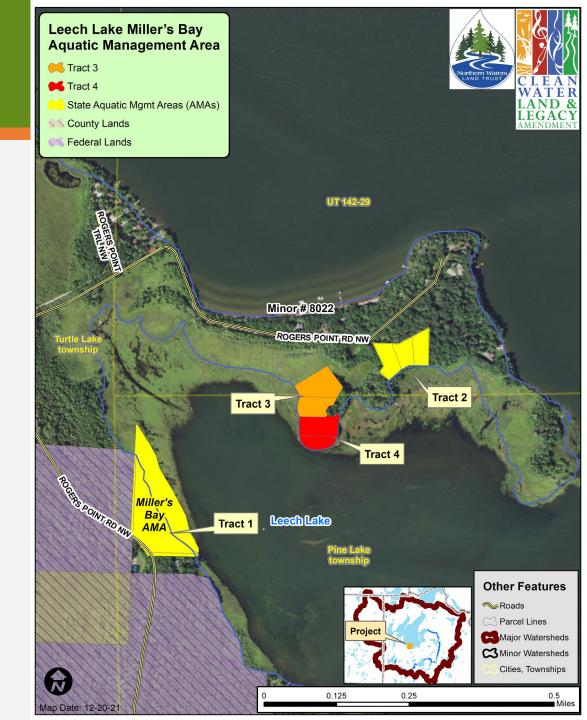
#### Fee Title Acquisition Example

#### Leech Lake Miller's Bay Aquatic Management Area (AMA)

- Acres Protected:
  - Total: 14.28 acres
  - Recent project: 5.5 acres
- Muskie Spawning Habitat Preserved
- Locally Supported
- Long term management

"The undeveloped shoreline includes riparian and submerged vegetation and wild rice that supports critical muskellunge spawning and nursery habitat."

- Doug Schultz, DNR Walker Area Fisheries Supervisor



### NWLT Conservation Programs

Clean Water Critical Habitat

Carbon Sequestration

Lakes of Outstanding Biological Significance

- Conserving land within deep cold water tullibee refuge lake watersheds
  - Funding: Outdoor Heritage Fund
- Pilot program exploring carbon sequestration and conservation easements
  - Funding: Initiative Foundation

- Conserving land within LOBS watersheds
  - Funding: Outdoor Heritage Fund

#### Fisheries Habitat Protection on Strategic North Central Lakes: Priority tullibee refuge watersheds Hubbard County Cass County **Aitkin County** Crow Wing County **NWLT Focus Watersheds** Opportunistic 47 75% Protection Goal Accomplished Tullibee Refuge Lakes

## Land Protection Program, since 2014:

- \$23 million in grant funding received
- More than 6,000
   acres protected so
   far



#### Protecting Minnesota's Lakes of Outstanding Biological Significance (LOBS), **Priority LOBS watersheds** Koochiching Beltrami Lake St. Louis Clearwater [ Carlton Wadena Mille Lacs Kanabec Priority Bio Lake Watersheds (HUC10s) Targeted LOBS Lakes

## Funded from OHF since 2020:

- \$5 million received in grant funding
- 158 acres and
   7,392 feet of
   shoreline
   protected so far



## Carbon Sequestration Grant Goals

- Explore the feasibility of forest carbon sequestration within land conservation easement programs throughout Minnesota.
- White paper with framework
- Outreach and education to landowners about carbon sequestration





#### Conservation Significance

#### Big Mantrap Lake

- Lake of Outstanding Biological Significance
- In Big Sand Lake watershed
- Loon Habitat
- High percentage of unaltered shoreline habitat



### Let's look at Big Mantrap Lake – Hubbard County!



DNR has estimated that more than 200 acres of Mantrap Lake are prime wild rice habitat.



The DNR estimates that there are approximately 796 acres of sensitive shoreline on Mantrap Lake.



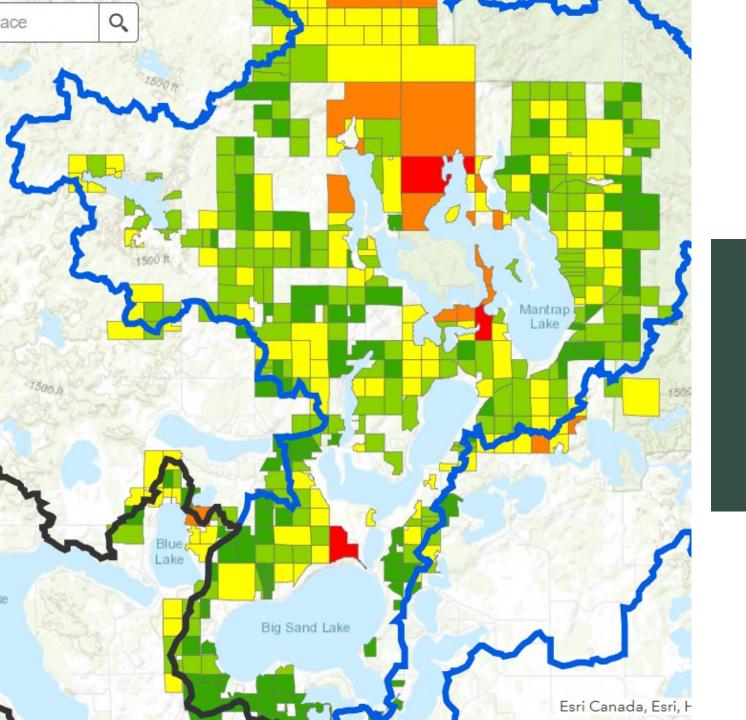
habitat for cool and cold-water fish including northern pike, muskie, bass and panfish.



recognized by the National Audubon Society as an Important Bird Area because of its pristine shoreline and forest habitats.



Provides important nesting and feeding habitat in the region for Minnesota's State bird – the common loon.



## Clean Water Critical Habitat Map

## Axe Ln Bad Axe Lake Mantrap Lake Upper Lake intrepid Rd Bottle

#### Wonewok

- Environmentally significant land
- Priority for permanent protection
- NWLT has been actively working with other conservation groups to look at options for protection

#### **Current Status:**

- The NWLT land protection team continues to work on this and look at options for conserving this property
- Thank you for your patience and continued support!

#### Partnership with Big Mantrap Lake Association

- Support on conservation efforts
- Connecting with interested landowners
- Sharing & promoting successes
- Offering resources
- Conservation Representative, Workshop







Contact Information

Annie Knight
AnnieK@nwlt-mn.org

Northern Waters Land Trust





#### NorthernWatersLandTrust.org



