

BUILDING BASIN-WIDE LEADERSHIP THROUGH WATERSHED EDUCATION



OUTLINE

- International Water Institute
- MN River Watch Program
 - Goals
 - Overview
- ND River Watch Efforts



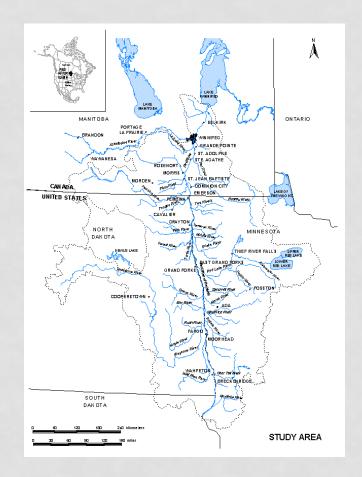


1997 Red River of the North Flood

 International Flood Mitigation Initiative (IFMI) 2000

Mission:

- Watershed Research
- Watershed Education





RIVER WATCH GOALS

- Understand water's role in the environment and human interactions
- Develop sound science and critical thinking as basis for knowledgeable decision making
- Help meet resource managers monitoring and management needs
- Instill a sense of place in the watershed
- Train next generation of resource managers





MINNESOTA RIVER WATCH

Enhance Watershed Science and Education Through Outdoor Activities and Curriculum Integration

- ✓ Water Quality Monitoring
- ✓ Snow and Frost Study
- ✓ Macroinvertebrate Monitoring
- ✓ River Explorers Program

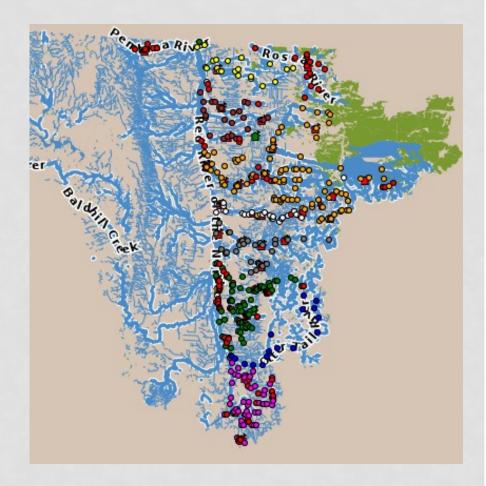
"Hands-on experience through field-based activities"





WATER QUALITY MONITORING

- 25 Schools/Teams in RRB
- Over 150 established sites
- 8,500 site visits







WQ MONITORING FIELD EQUIPMENT









SNOW AND FROST STUDY







- Students collect snow depth, snow water equivalency, frost depth, and infiltration rates.
- Data collected is provided to the National Weather Service via CoCoRaHS.
 - Increase the accuracy of forecasting spring flooding.





MACROINVERTEBRATE MONITORING

- Learn about the relationship between water quality and biological communities.
- Kits and Training available







RIVER EXPLORERS

Explore local rivers and streams

Low tech paddling with high tech tools

- Waterproof digital cameras

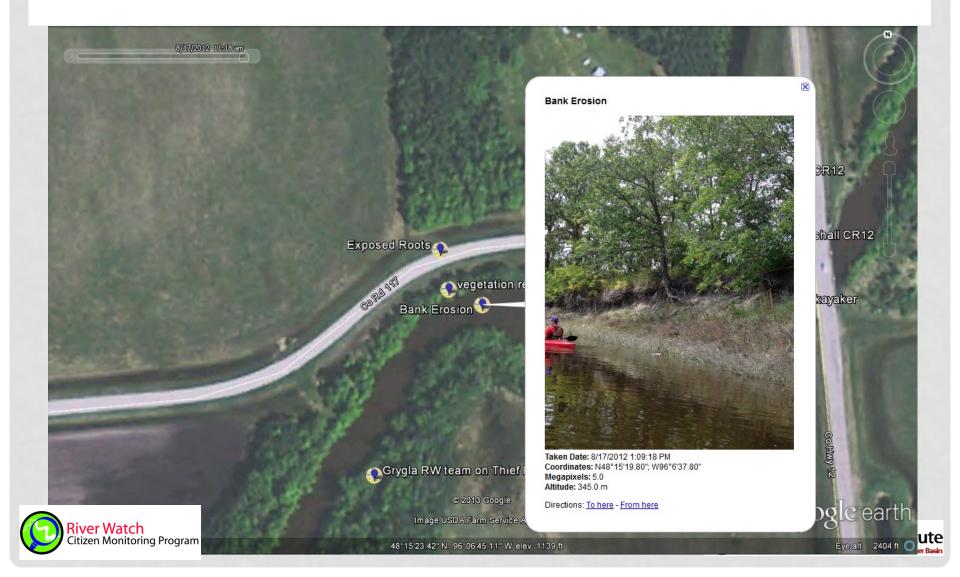
 geotag photos / Apps to
 learn and document
 findings.
- Information integrated with Google maps and shared with local resource managers to illustrate current conditions.



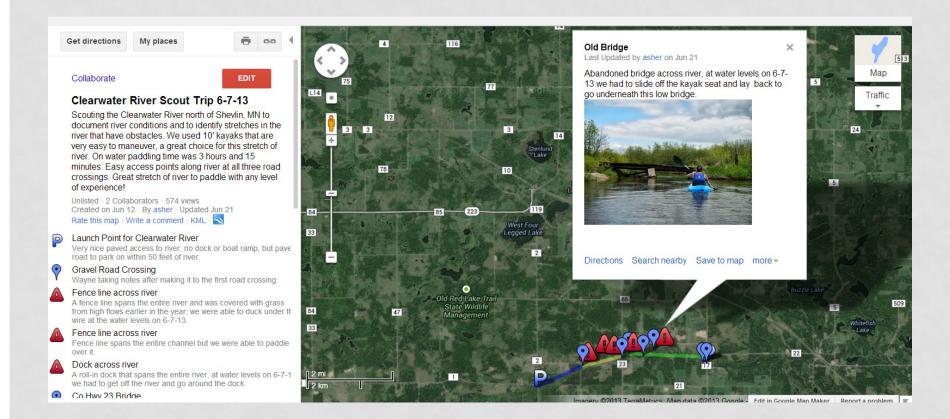




RIVER EXPLORERS (DATA)



RIVER EXPLORERS (RECREATION)







NORTH DAKOTA INITIATIVE

- 2014/15 Establish 5 River Watch Teams in ND
 - Walhalla, Cavalier, and Pembina have expressed interest
 - Larimore has been active in River Watch but not supported
- Funding/Support:
- Red River Joint Water Resources Board
- ND Natural Resources Conservation Service
- Pembina County Water Resources District





