

A photograph of a river flowing under a concrete bridge. The river water is brown and rippled. The bridge is a simple concrete structure with a flat top. The banks are lined with green grass and bushes. In the background, there are trees and a clear blue sky.

Nemadji Watershed

Comprehensive Watershed Management Plan Update

February 2022

Topics

- Streams
- Wetlands
- Farms
- Forests
- Lakes
- Drinking Water

STREAM



WETLANDS



FARM



FOREST



DRINKING
WATER



STREAM



2 MN DOT Completed Projects (Highway 23 – Deer Creek, South Fork Nemadji)

3 Carlton County/SWCD Partnership Culvert Projects Completed

3 Carlton County/SWCD Partnership Road Erosion Project Completed

3 Carlton County Culvert Projects Completed

2 Carlton County/SWCD Partnership Projects Designed

Elim Dam Study Started



North Holyoke Road – South Fork
Tributary (2020 – Holyoke Township,
Carlton County & SWCD)

- Enbridge Ecofootprint Grant funded design
- Township Bridge Funds Funded Culvert
- Reconnected 1.41 miles of stream



Stateline Creek Stabilization Project (2020 Carlton County & SWCD)

- FHWA Funded bridge & Culvert
- CWF Grant Funded stream stabilization
- Reconnected 8.31 miles of stream
- Saved 156 tons of soil and 179 pounds of phosphorous per year



Little Net River Stabilization Project (2021 Carlton County & SWCD)

- DNR State Park Road Account Program funded bridge
- CWF Grant Funded stream stabilization
- Reconnected 5.27 miles of stream
- Saved 59 tons of soil and 57 pounds of phosphorous per year



Little Net River Slide Stabilization
(2021 & 2022 - Carlton County &
SWCD)

- Great Lakes Commission & CWF grants
- Both sides of road completed
- Saved 143 tons of Sediment and 143 pounds of phosphorous



County Road 103 Stabilization
(2022 - Carlton County & SWCD)

- 319 Grant Match
- Saved 143 tons of Sediment and 143 pounds of phosphorous

Nemadji Creek CSAH 8 Crossing (2021 – Carlton County & SWCD

- Enbridge Ecofootprint Paid for Preliminary Design (SWCD Grant)
- County State Aid Funded Final Design/Construction



Elim Creek CSAH 6 Crossing

- EPA 319 Funding part (SWCD grant)
- State Aid & bridge bonding funding remainder
- All permits have been issued
- All ROW has been purchased
- Design complete

Elim Dam Study

- Consulting Engineering Firm Selected from RFP
- Geotechnical analysis completed winter 2022
- Modifications are recommended to improve dam safety
- Next steps are to evaluate options



Stream Monitoring – MPCA Grant

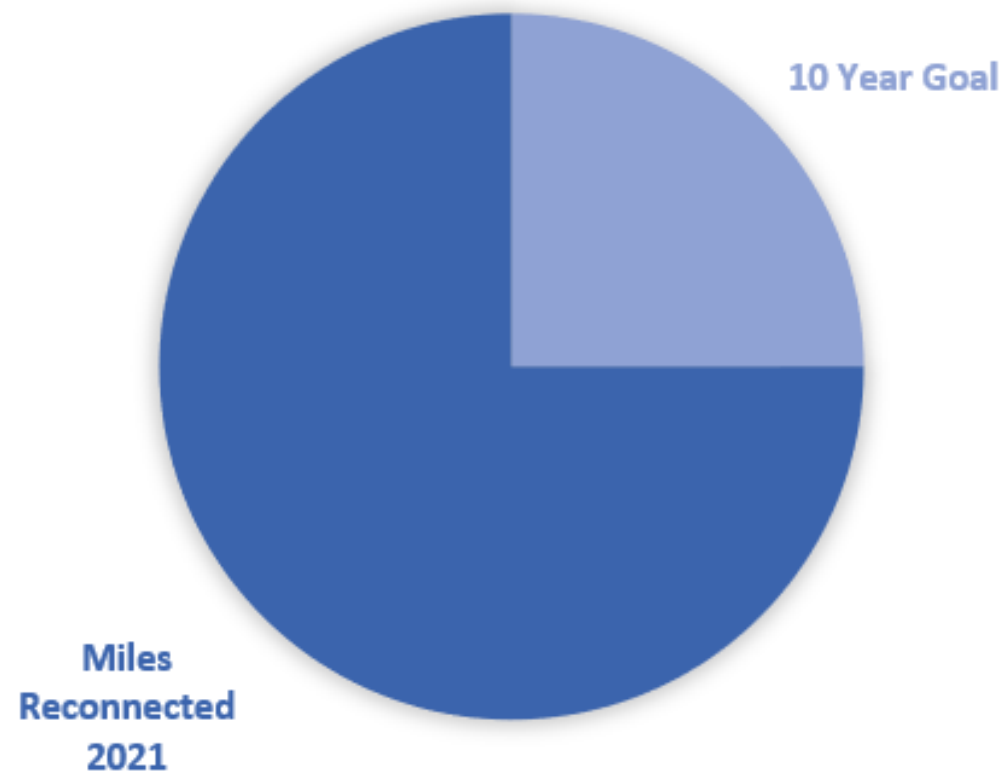
Where?

- Nemadji River
- Nemadji South Fork
- Blackhoof River
- Skunk Creek

What is being monitored?

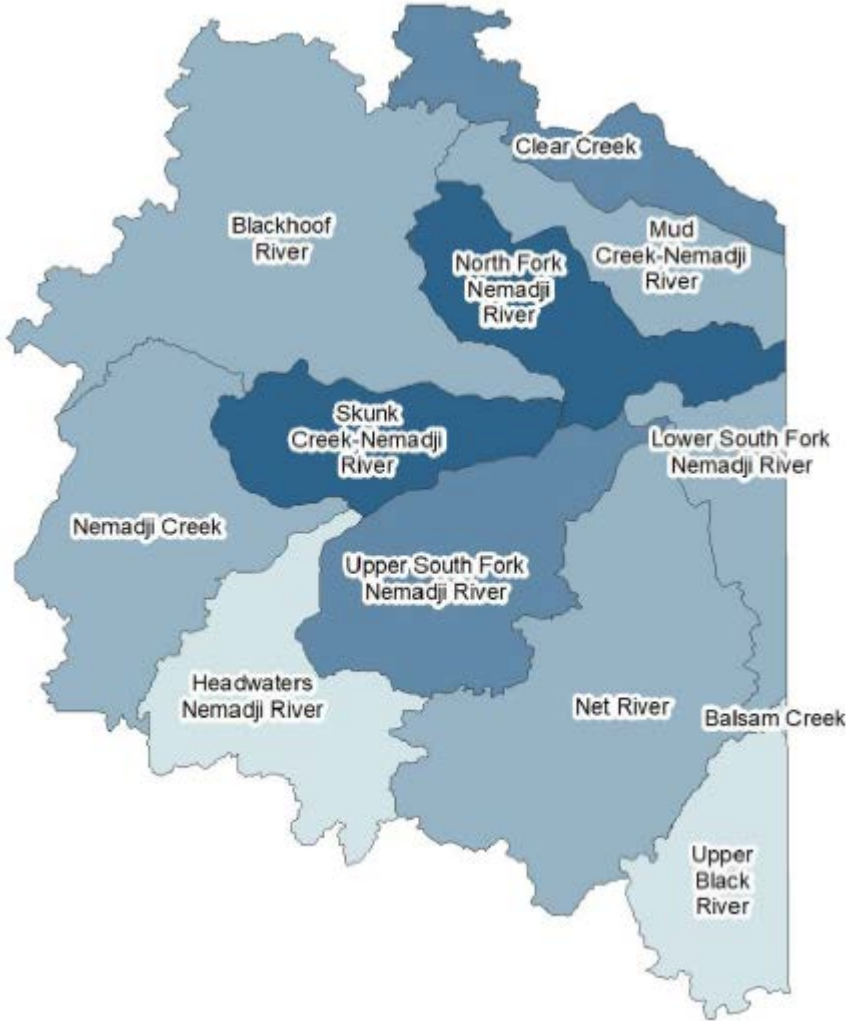
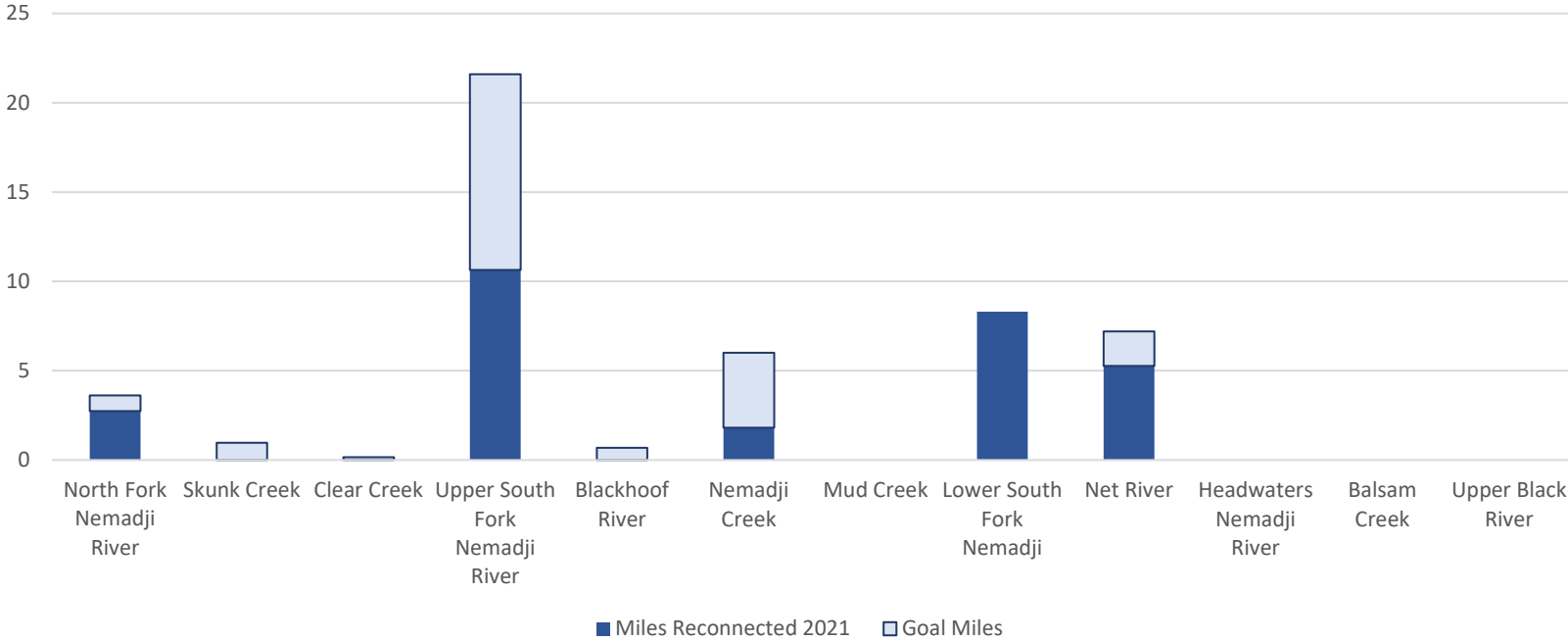
- TSS
- Total Phosphorous
- Bacteria

Stream Goal Progress



Stream Goal Progress

Stream Goals - Miles Reconnected



Upcoming Projects

- Clear Creek & CSAH 4 – Enbridge Funding (\$842,000)
- Spring Creek & County Road 104 – Enbridge Funding (\$80,000)
- Hunters Creek & CSAH 6 – State Aid (\$400,000)
- Elim Creek & CSAH 6 – 319, Bridge Bonding, State Aid (\$2.7 million)





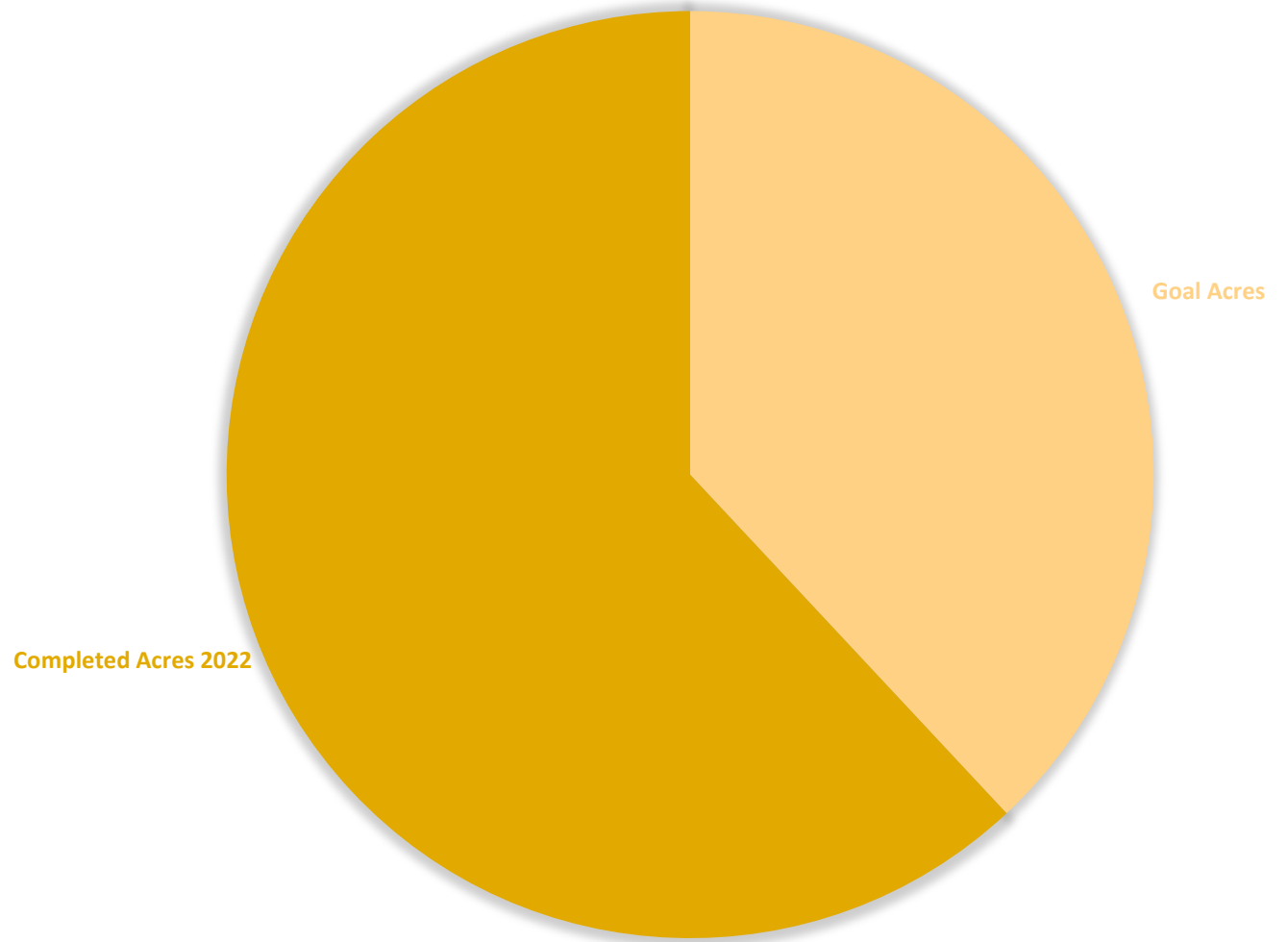
- Mud volcano update
- Wetland Assessments – Working with MPCA





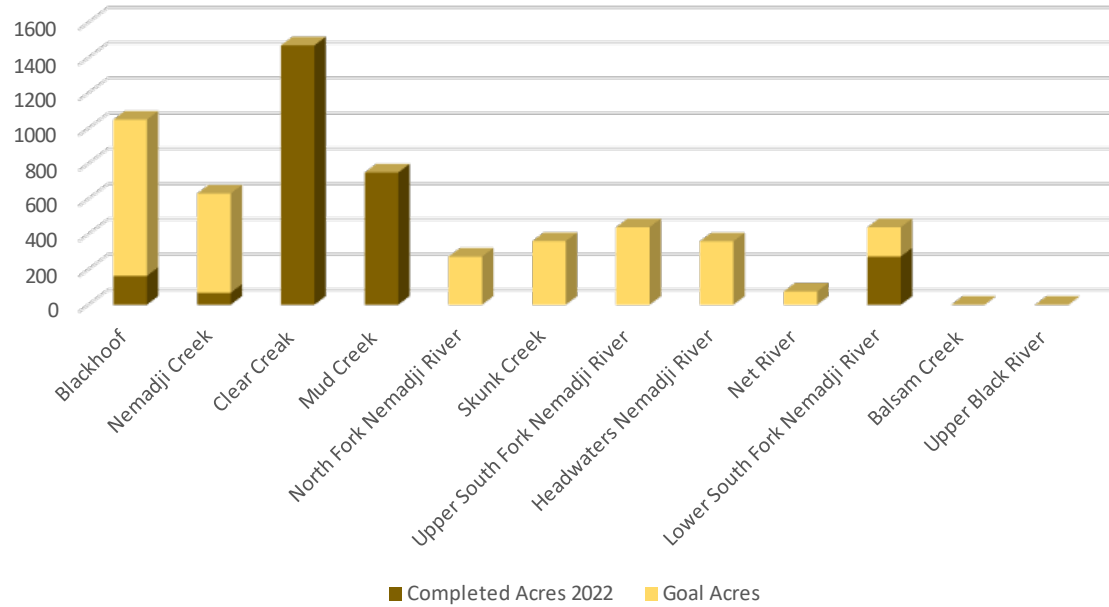
- 120 Acres cover crops planted (WBIF) + 350 Acres (MDA, Landowner, Equipment Rental)
- 106 Acres of No Till (Landowner, Equipment Rental)
- 167.5 Acres Prescribed Grazing (MDA)
- 1285 Acres Nutrient Management (NRCS, MDA)
- 1 pipeline
- Met with 5 farmers to evaluate livestock operations
- 1 Livestock design complete with plans to construct in 2023
- 2 Livestock designs in progress by consulting ag engineer
- 1 Water and Sediment Control Basin design complete with plans to complete in 2023

10-Year Farm Goal Progress

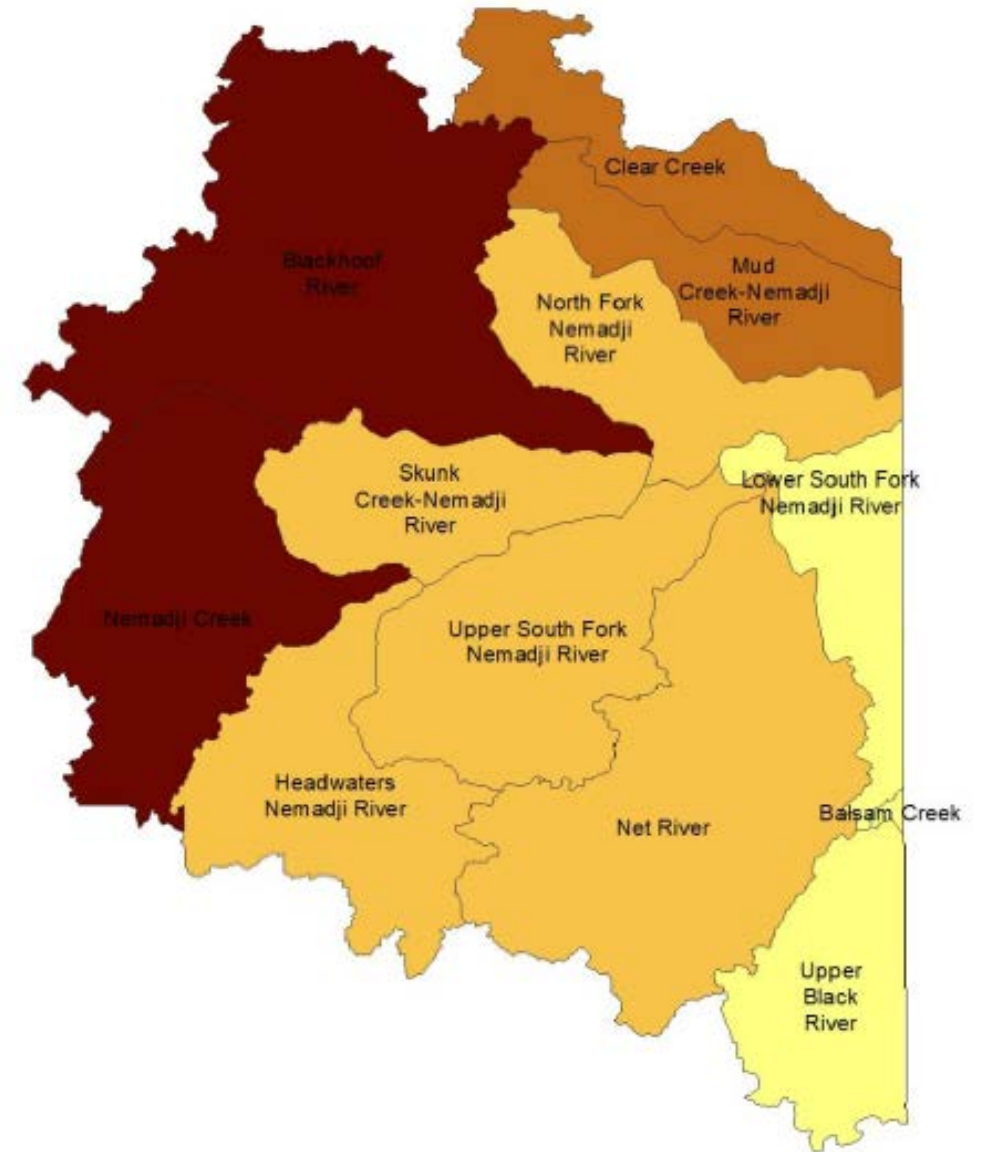
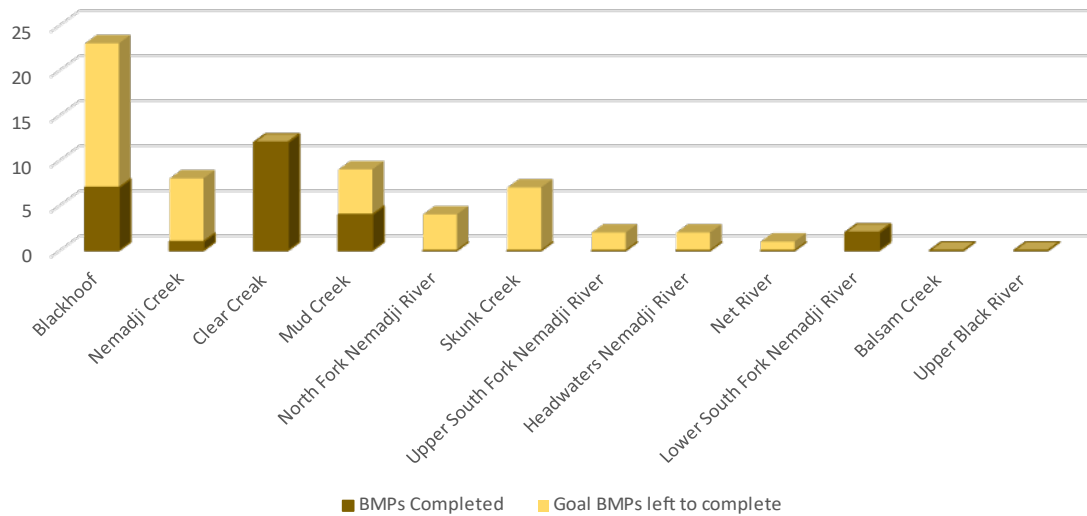


Farm Goal Progress

Farm Goal Progress 2022



Farm Goal BMPs 2021



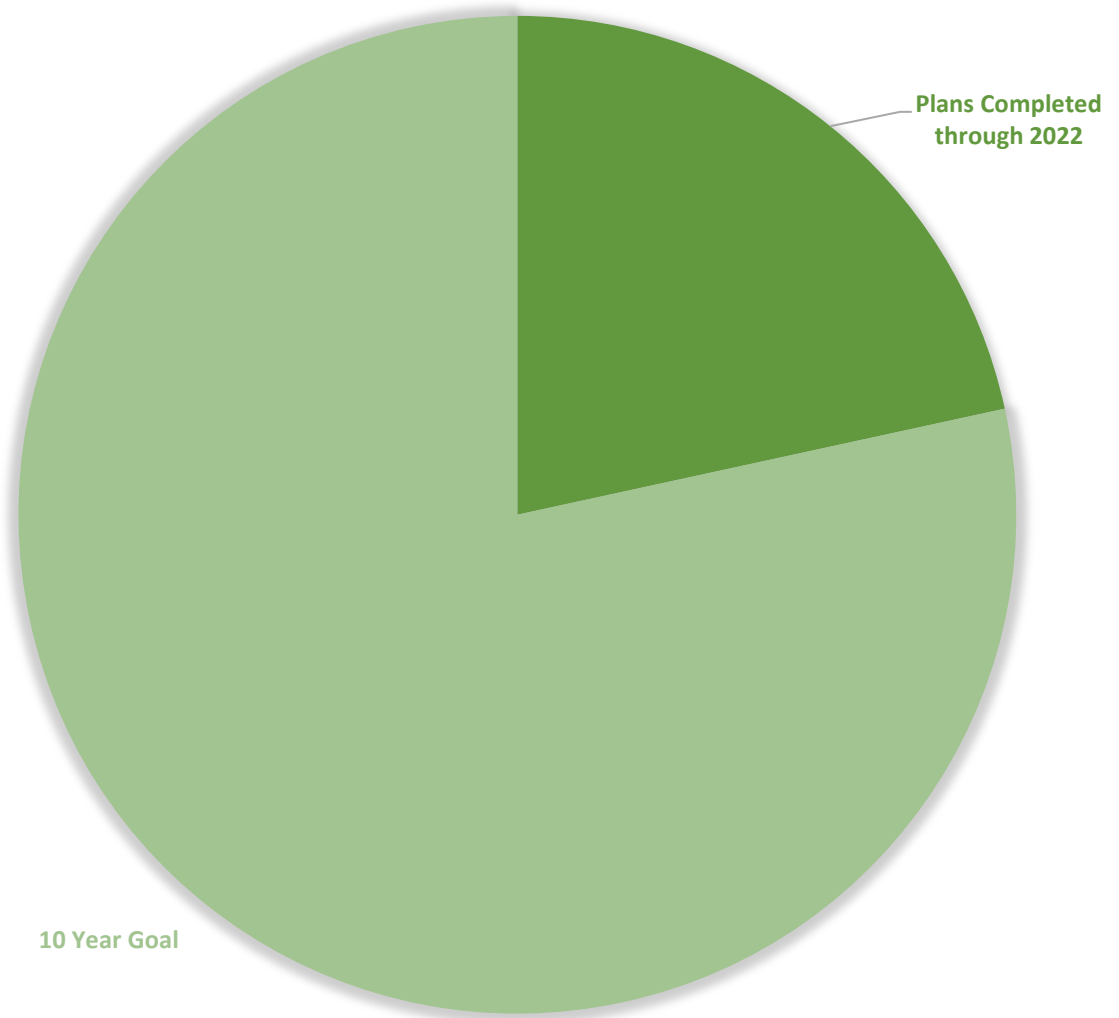


1376 Planned Acres

19 Woodland Stewardship Plans Completed

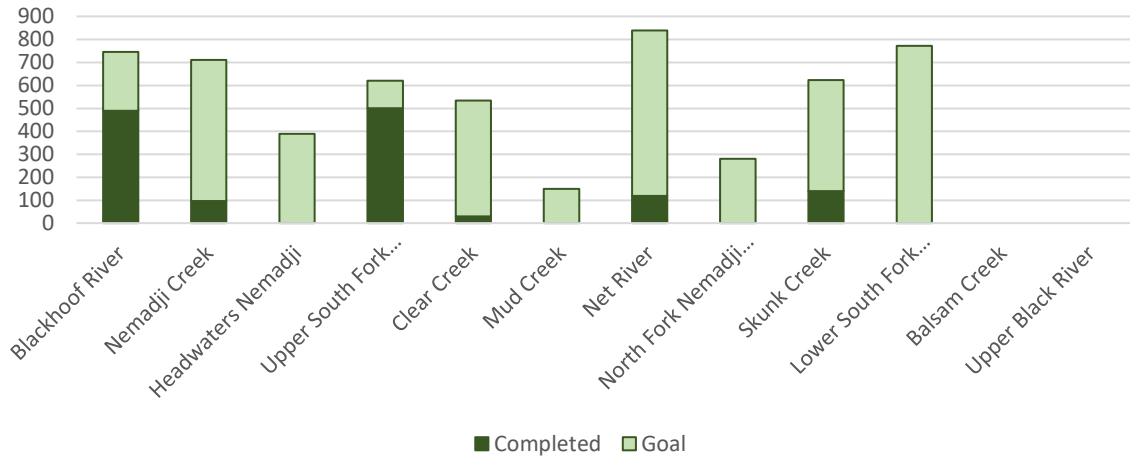
11.7 Acres Forestry BMPs Implemented

10-Year Farm Forest Progress

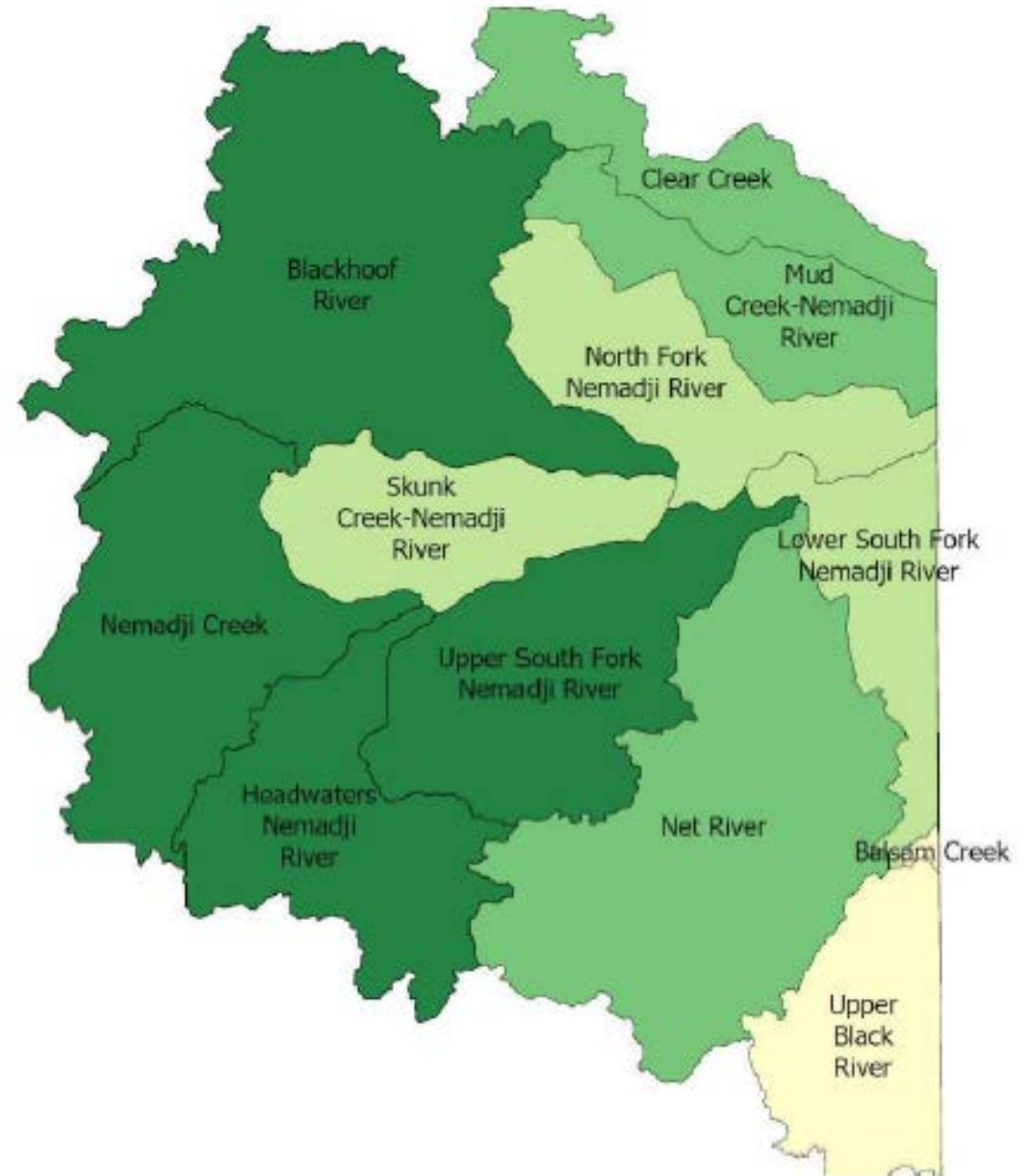
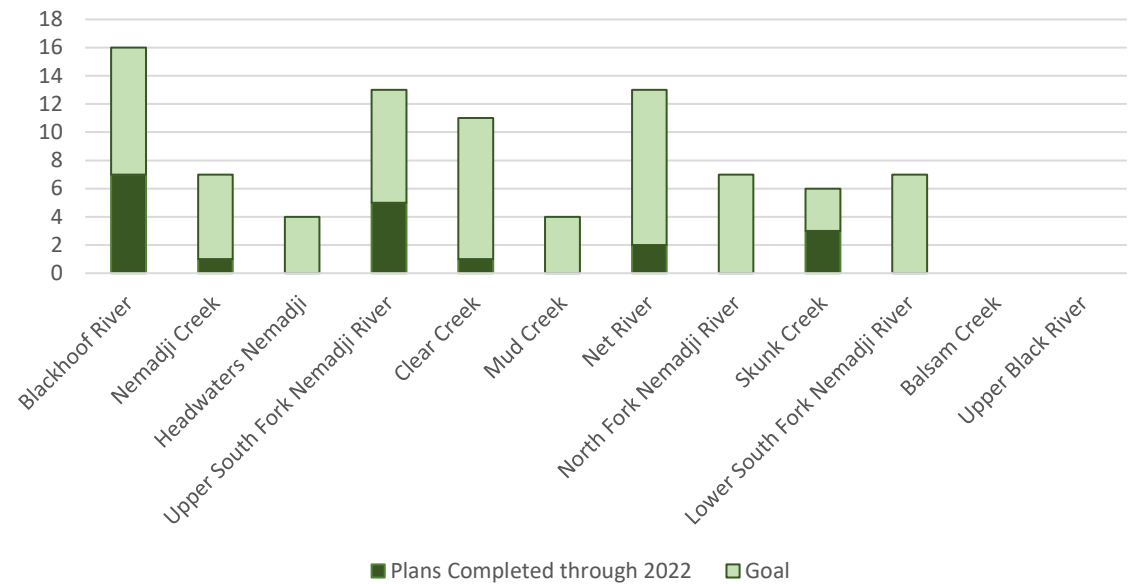


Forestry Goal Progress

10-Year Forestry Goal - Planned Acres



10-Year Forestry Goal - Plan Numbers





Lakes, Groundwater & Protection

- Contractor/Realtor Workshop – February 2022
- Net River Septic Study completed
- Shoreline Workshop – March 2022
- Lake Monitoring (MPCA Grant) – Hay & Sand Lakes
- Drinking Water Database started
- New RIM Easements Program

Watershed Funding through 2022

