

A photograph of a river flowing under a concrete bridge. The river water is a brownish-tan color, suggesting sediment. The banks are lined with green grasses and shrubs. In the background, there are more trees and a clear blue sky. The bridge is a simple concrete structure with a flat top.

# Nemadji Watershed

Comprehensive Watershed Management Plan Update

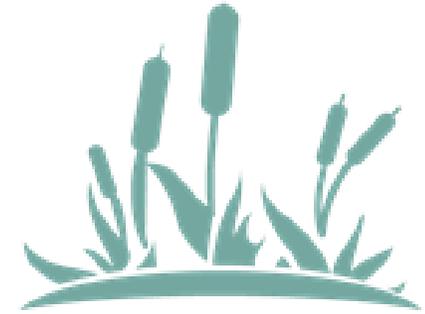
# Topics

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

STREAM



WETLANDS



FARM



FOREST



DRINKING  
WATER



# STREAM



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

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3 Carlton County/SWCD Partnership Culvert Projects Completed

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1 Carlton County/SWCD Partnership Road Erosion Project Completed

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3 Carlton County Culvert Projects Completed

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2 Carlton County/SWCD Partnership Projects Designed

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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 - Carlton County & SWCD)

- Great Lakes Commission & CWF grants
- First phase complete
- Saved 143 tons of Sediment and 143 pounds of phosphorous

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

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



# Elim Creek CSAH 6 Crossing

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- EPA 319 Funding part (SWCD grant)
- State Aid funding remainder
- All permits have been issued
- All ROW has been purchased
- Design is in progress

# Elim Dam Study

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- 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

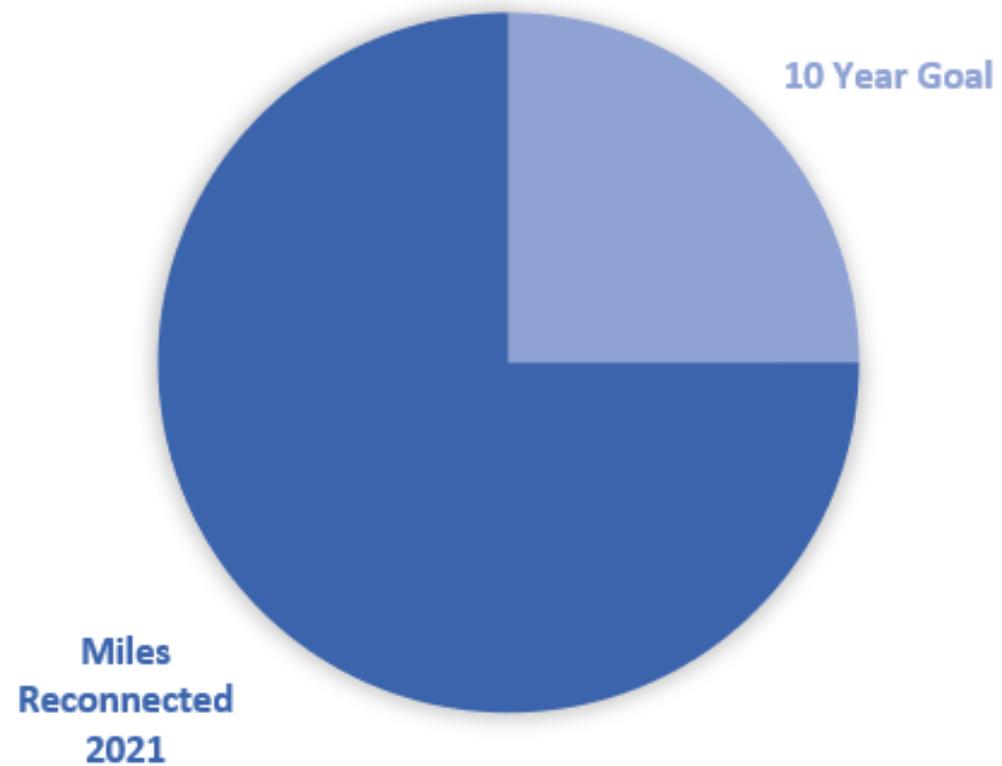
## Where?

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

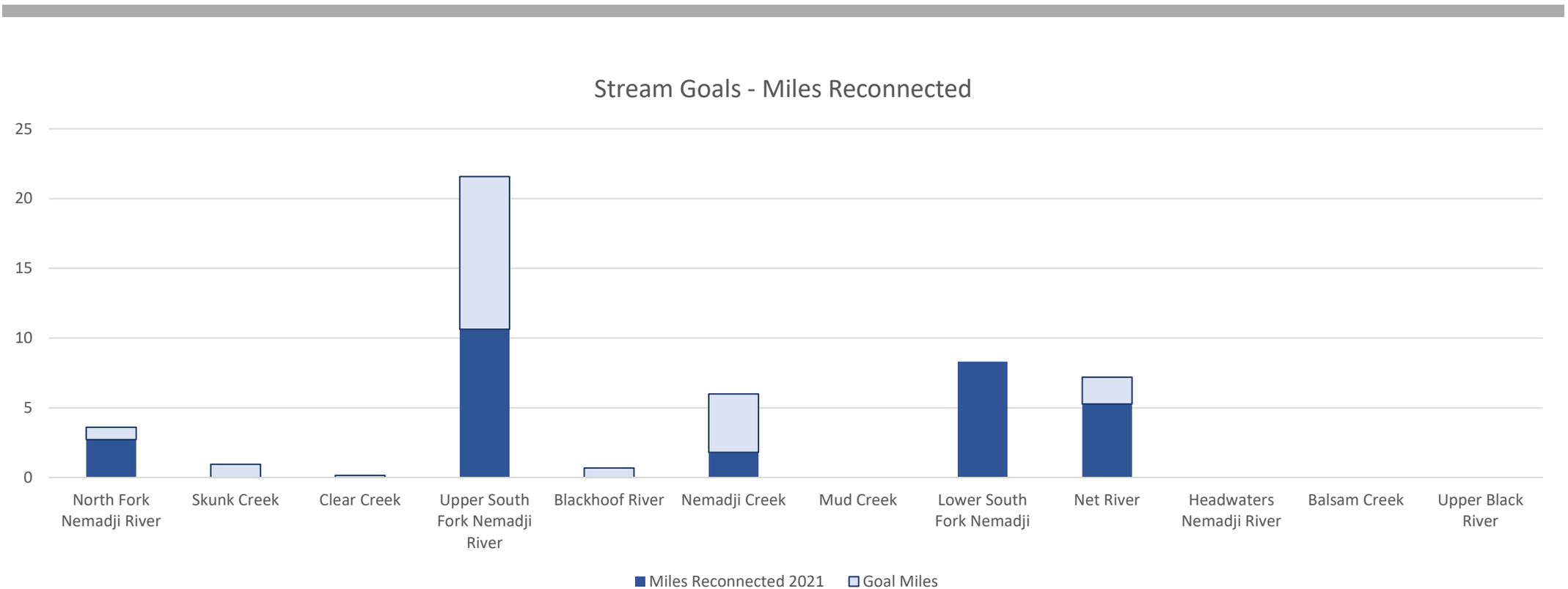
## What is being monitored?

- TSS
- Total Phosphorous
- Bacteria

# Stream Goal Progress



# 2021 Stream Goal Progress





- Mud volcano update
- Wetland Assessments – Working with MPCA for funding





- 120 Acres cover crops planted (WBIF) + 115 Acres (MDA, Landowner, Equipment Rental)
- 11 Acres of No Till (Landowner, Equipment Rental)
- 167.5 Acres Prescribed Grazing (MDA)
- 1285 Acres Nutrient Management (NRCS, MDA)
- Met with 5 farmers to evaluate livestock operations
- 1 Livestock design complete with plans to construct in 2022
- 1 Water and Sediment Control Basin design complete with plans to complete in 2022

# Cover Crops – Heikes Farm

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# Feedlot Project – Schmidt Farm

# Water and Sediment Control Basin – Fisher-Merritt Farm

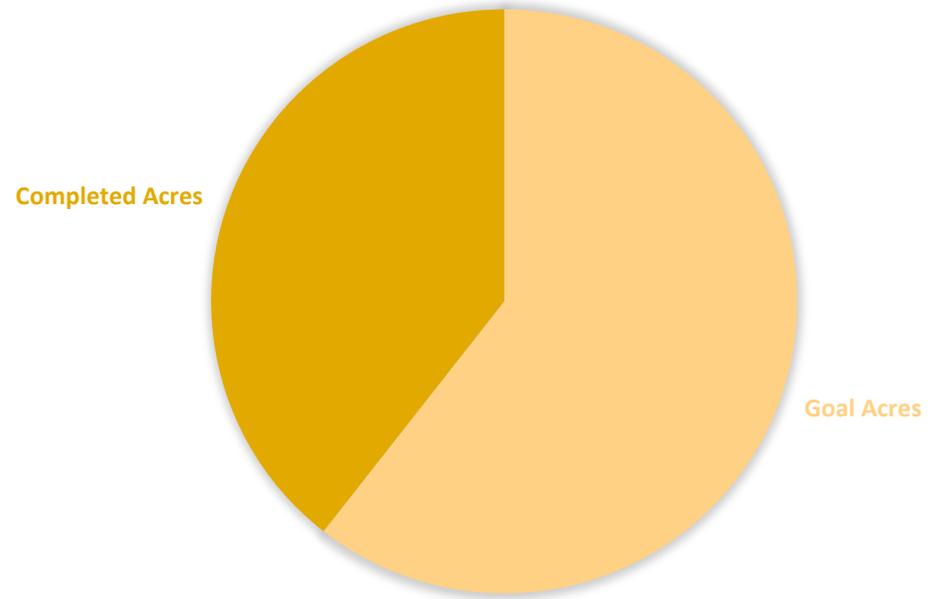
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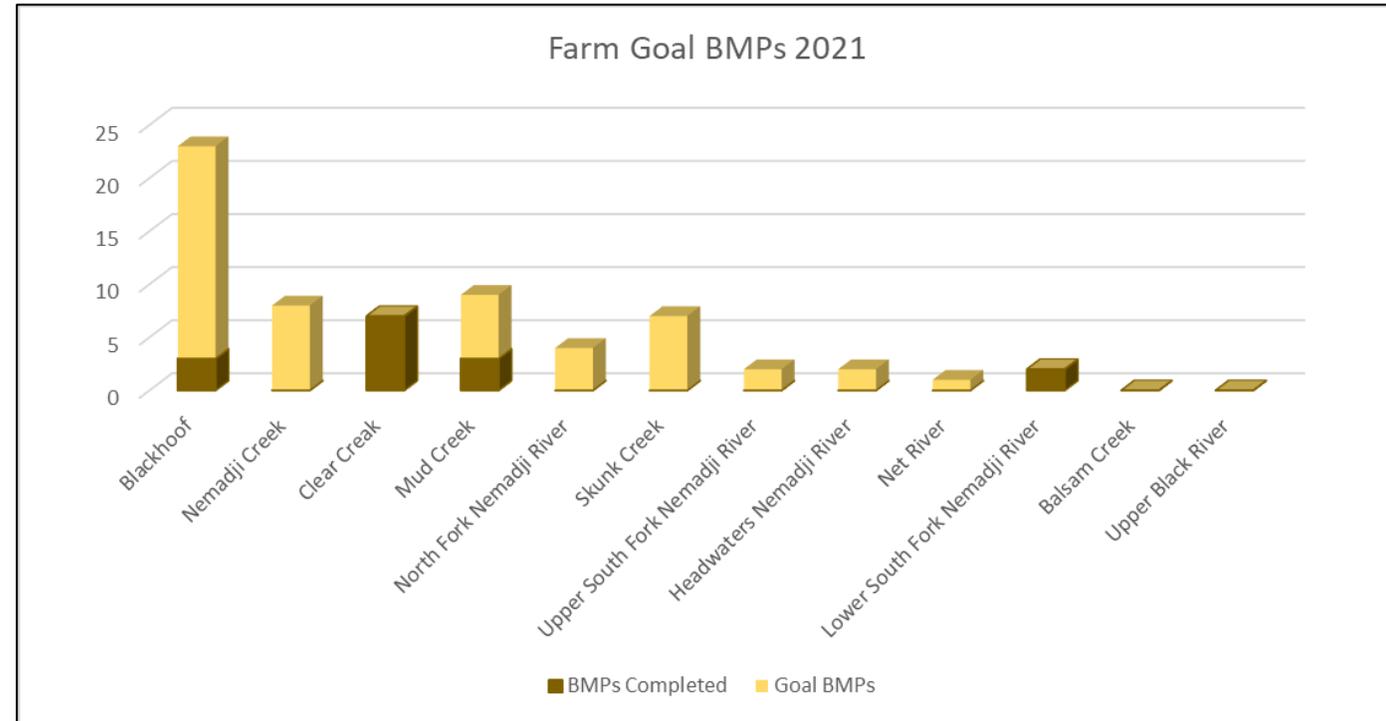
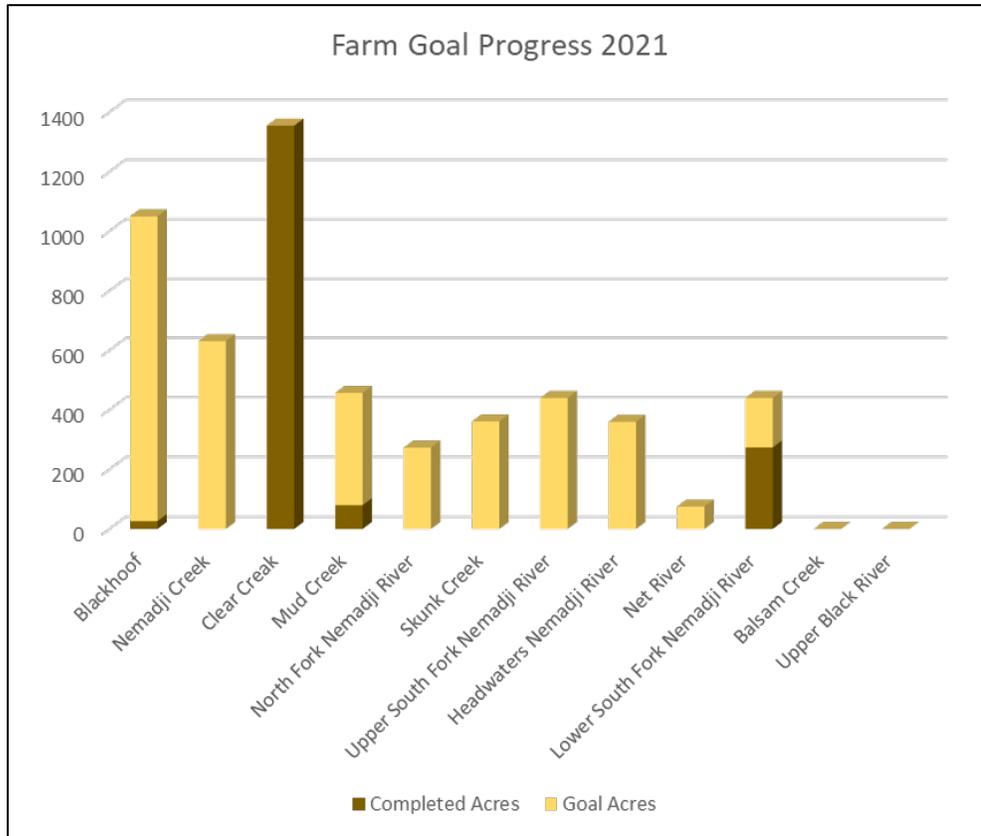


Feedlot  
Designs –  
Laveau Farms

# 10-Year Farm Goal Progress



# Farm Goal Progress 2021



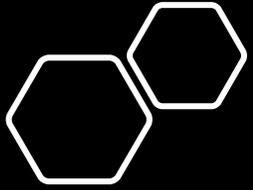


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586 Planned Acres (2020-2021) SWCD Only

11.7 Acres Forestry BMPs Implemented

\$9401 Match

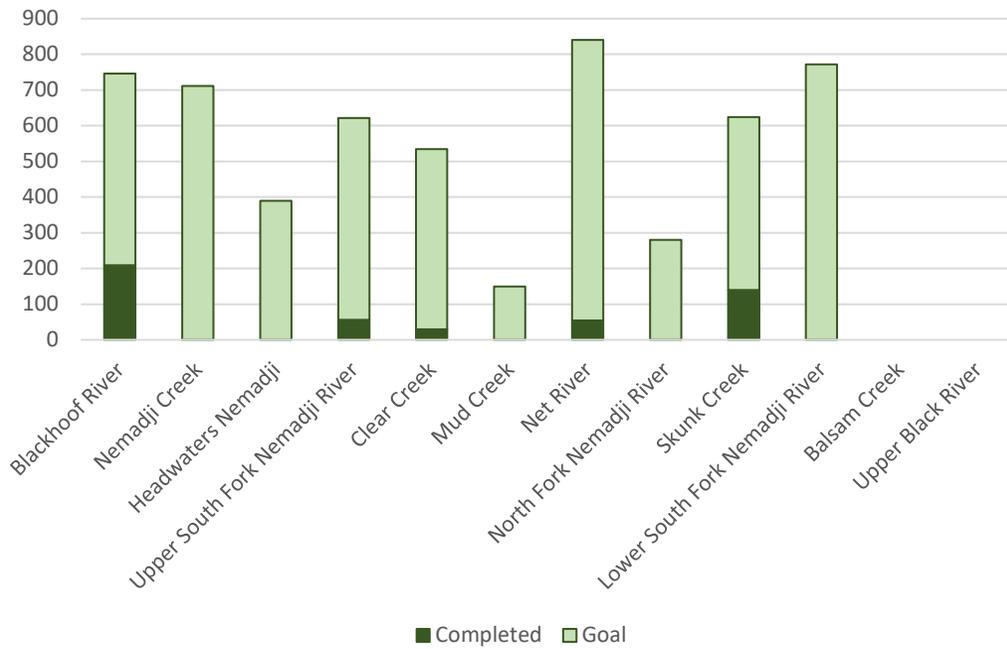


# 10-Year Forestry Goal Progress

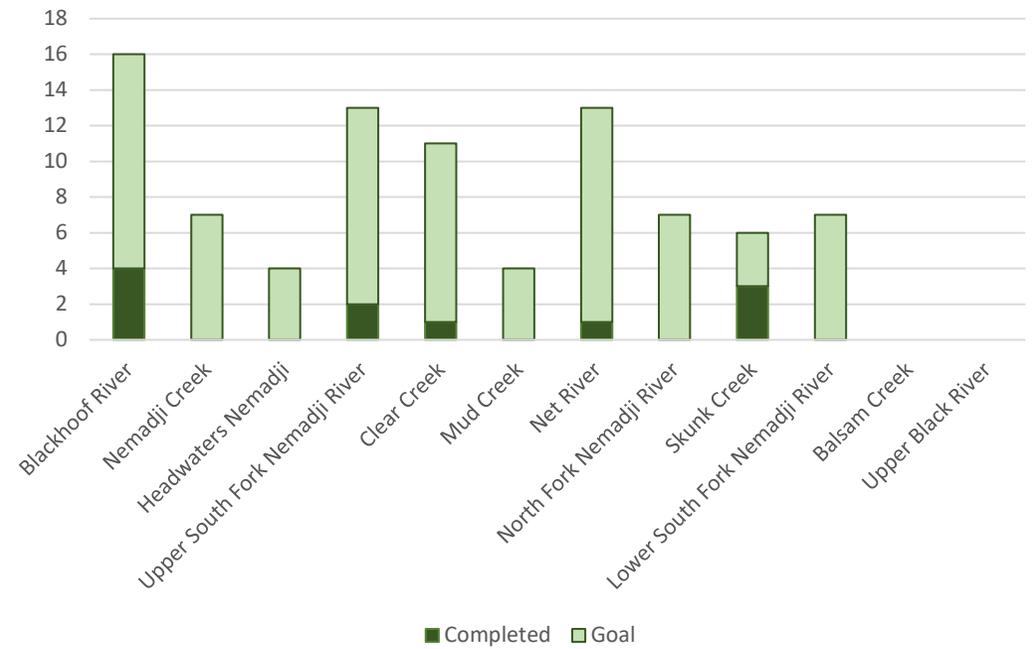


# Forestry Goal Progress 2021

10-Year Forestry Goal - Planned Acres



10-Year Forestry Goal - Plan Numbers





# Lakes, Groundwater & Protection

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

# Watershed Funding through 2021

