



Timeline

*Where have we
been and where
are we headed?*

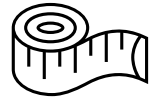


Goal: Seal 50 unused wells (5/year).



**DRINKING
WATER**

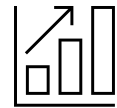
metrics



Wells sealed, acres of DWSMA protected.



Well sealing, inventory wells with unknown status, DWSMA RIM easements



Elink, GIS



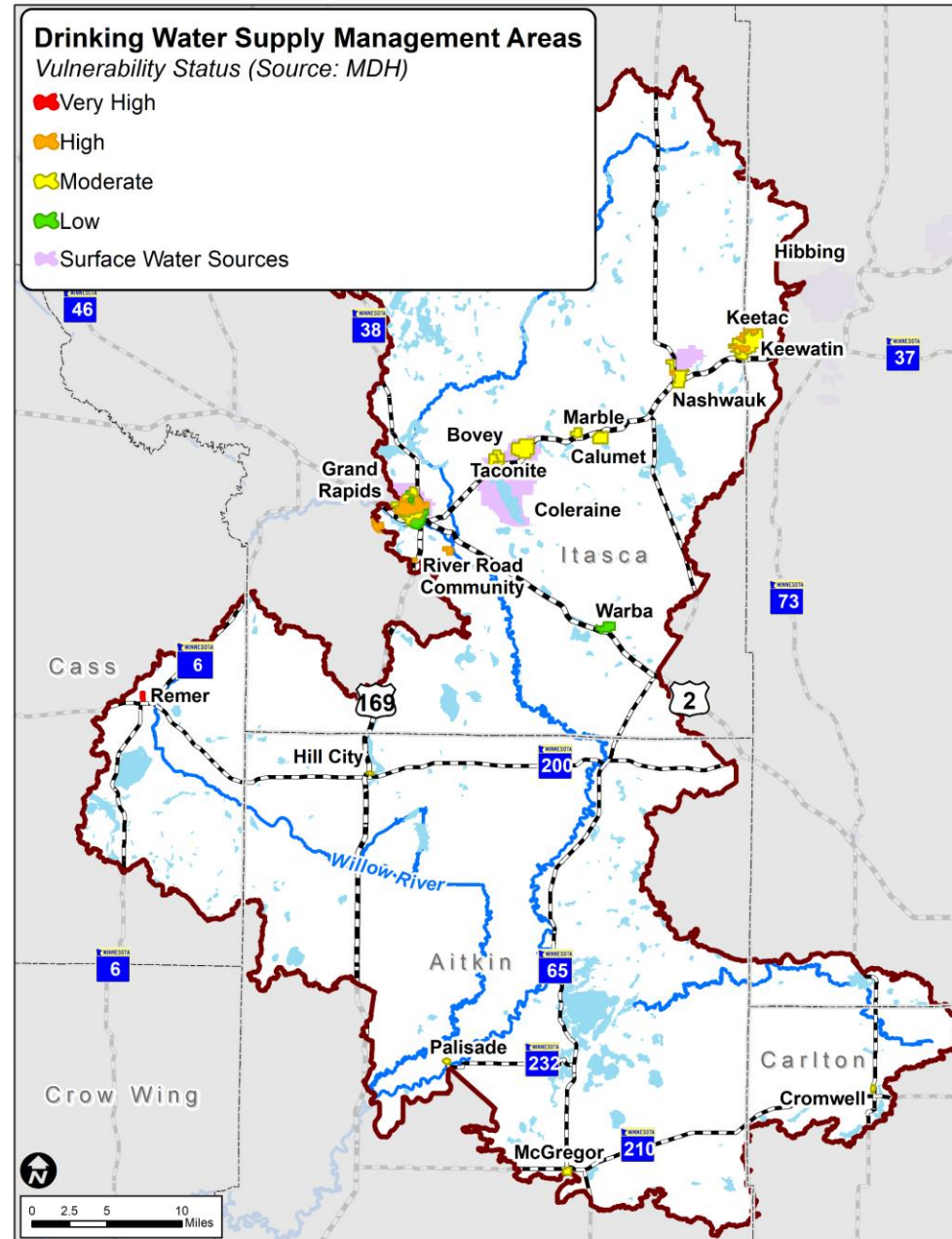
Unused wells, High vulnerability DWSMAs

Goal: Seal 50 wells and protect DWSMA acres.



DRINKING WATER

Targeting



Priorities:

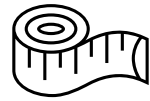
- Orange areas
- Surface Water Sources

Goal: Implement 3,659 acres of agricultural BMPs.



FARMS

metrics



Acres



Cover crops, no till, reduced till, prescribed grazing, nutrient management



Land cover data



Agricultural lands with proximity to streams & lakes, E.coli impairments

Goal: Implement 3,659 acres of agricultural BMPs.



FARMS

Numbers

Total Ag Acres	Crop:	7,358 acres
	Pasture/Hay:	44,919 acres
	Total =	52,277 acres
Current Practices	CRP:	72 acres
	MAWQCP:	814 acres
	NRCS Crop:	78 acres
	NRCS Pasture:	668 acres
	Elink Crop:	0 acres (thru 2020)
	Elink Pasture:	0 acres (thru 2020)
	Total =	1,632 acres (3%)

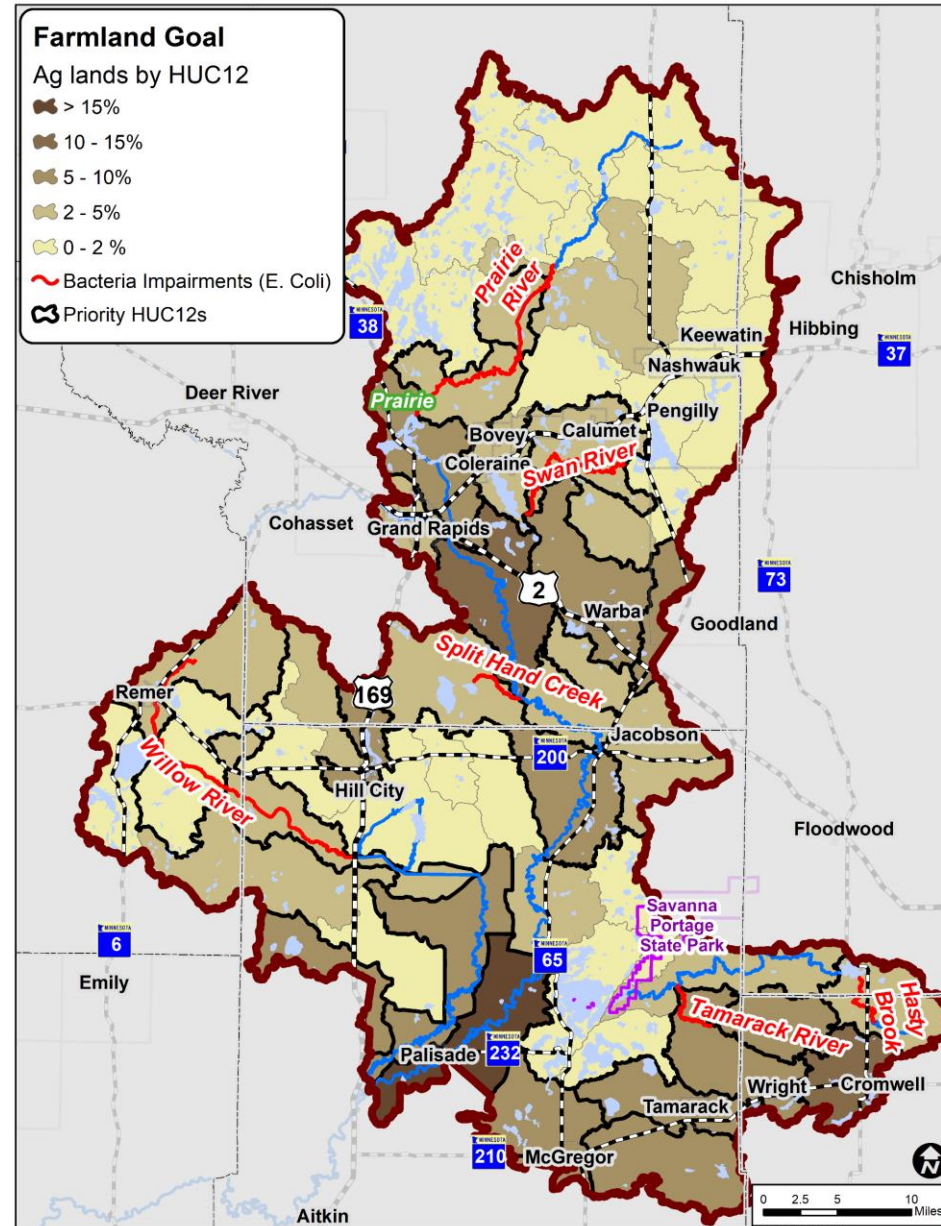
Goal Setting **GOAL: 3,659 acres (366/yr) = 7%**
Brings total BMP coverage to 10%

Goal: Implement 3,659 acres of agricultural BMPs.



FARMS

Priority areas

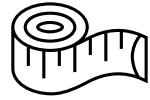


Goal: Implement 8,162 acres of protection and 36,000 acres of forest mgmt.



FORESTS

metrics



Acres



SFIA, Easements, RIM, Acquisitions, Forest Management Plans



Parcel ownership and land cover data, Landscape Stewardship Plan



Privately owned forestland closest to lakes and streams, RAQ

Goal: Implement 8,162 acres of protection and 36,000 acres of forest mgmt.



FORESTS

Protection Numbers

Total Protected Acres

Total Acres:
Total Protected:

1,332,794 acres
984,370 acres

Current Practices

Total Needed for LSP Goals:

81,620 acres

Goal Setting

10% progress towards LSP Goals:
Annual Progress:
SFIA, easements, acquisitions

8,162 acres
816/yr

Goal: Implement 8,162 acres of protection and 36,000 acres of forest mgmt.



FORESTS

Management Numbers

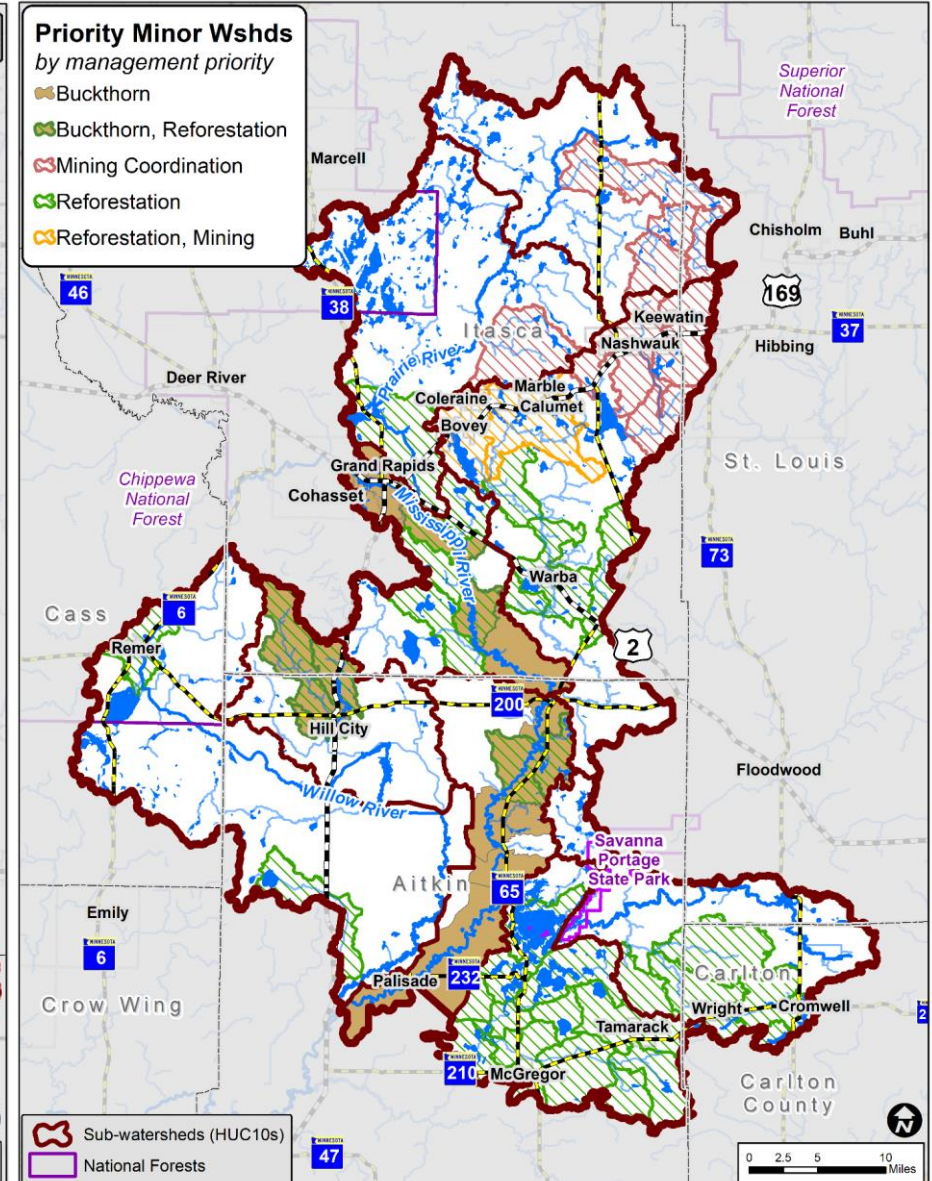
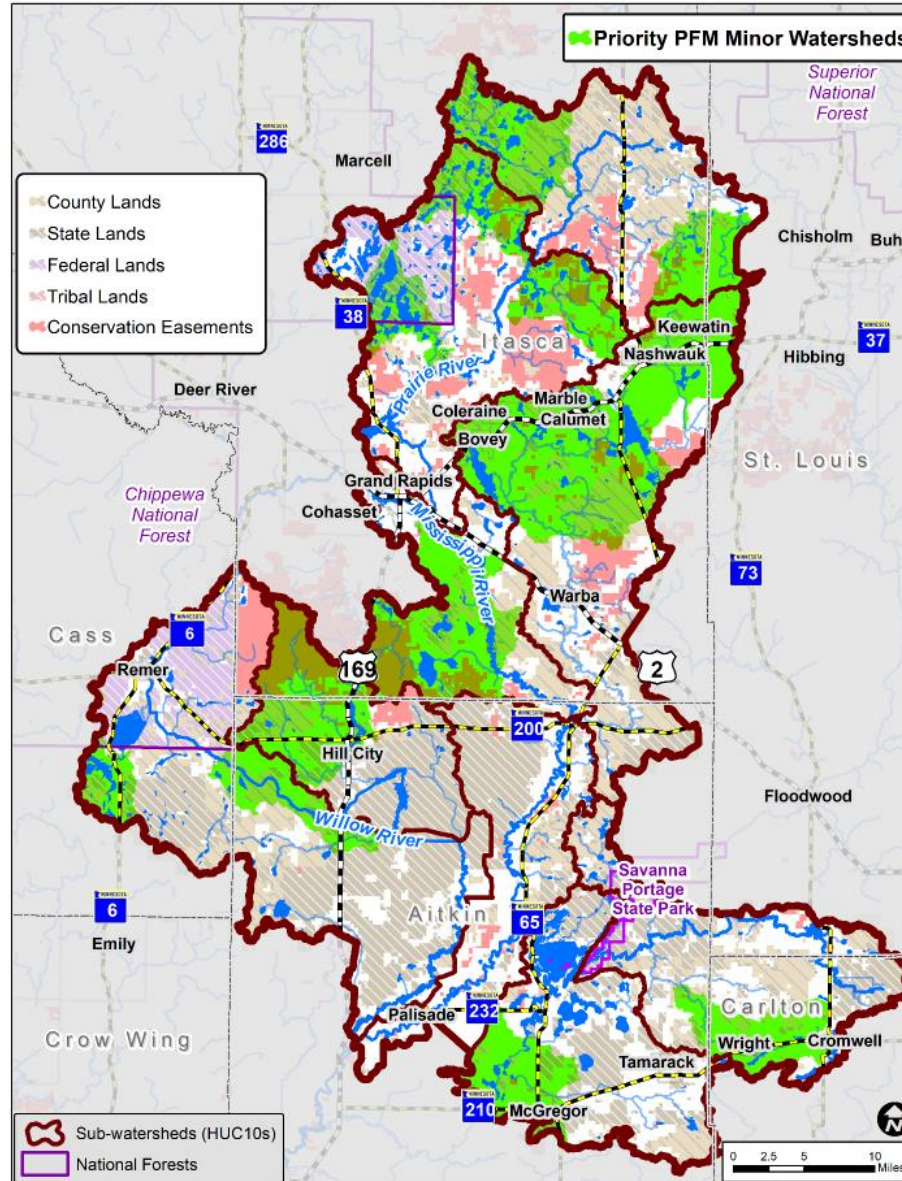
Total Managed Acres	Total Acres: Total Private Acres: Total Forest Acres: Total FSP Acres: % Forest with plans	1,332,794 acres 640,340 acres 501,076 acres 178,418 acres 36%
Current Practices*	2023: 34 plans written 2022: 30 plans written 2021: 30 plans written Average size = 120 acres each	
Goal Setting	30 plans/year x 10 years = 300 plans 300 plans x 120 acres = 36,000 acres of plans	

Goal: Implement 8,162 acres of protection and 36,000 acres of



FORESTS

Priority Areas

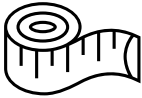


Goal: Enhance priority lakes by reducing the phosphorus load and restoring shoreline.



LAKES

metrics



Pounds of phosphorus, length/size of restoration



Septic systems, shoreline restoration, stormwater management



LPSS, WRAPS



Developed areas of priority lakes

Goal: Enhance priority lakes by reducing the phosphorus load and restoring shoreline.



Management Strategy	Description	Goal
VIGILANCE	<p>Lakes that are sufficiently protected:</p> <ul style="list-style-type: none"> >75% minor watershed permanent protection. 	<p>➔ Length of shoreline restorations/buffers</p>
PROTECT	<p>Lakes generally in good condition:</p> <ul style="list-style-type: none"> improving or no water quality trend, and/or 0-24% minor watershed disturbance (agriculture, development, urban, or mining), and/or <75% minor watershed permanent protection. 	<p>➔ Length of shoreline restorations/buffers</p>
ENHANCE	<p>Lakes at anthropogenic risk:</p> <ul style="list-style-type: none"> degrading water quality trends and/or, 25-60% minor watershed disturbance (agriculture, development, urban, or mining) and/or, nearly impaired. 	<p>➔ Length of shoreline restorations/buffers</p> <p>➔ Pounds of phosphorus reduction</p>
RESTORE	<p>Lakes impaired for excess nutrients.</p>	<p>➔ Length of shoreline restorations/buffers</p> <p>➔ Pounds of phosphorus reduction</p>

Goal: Enhance priority lakes by reducing the phosphorus load and restoring shoreline.



LAKES

Numbers

Goals:

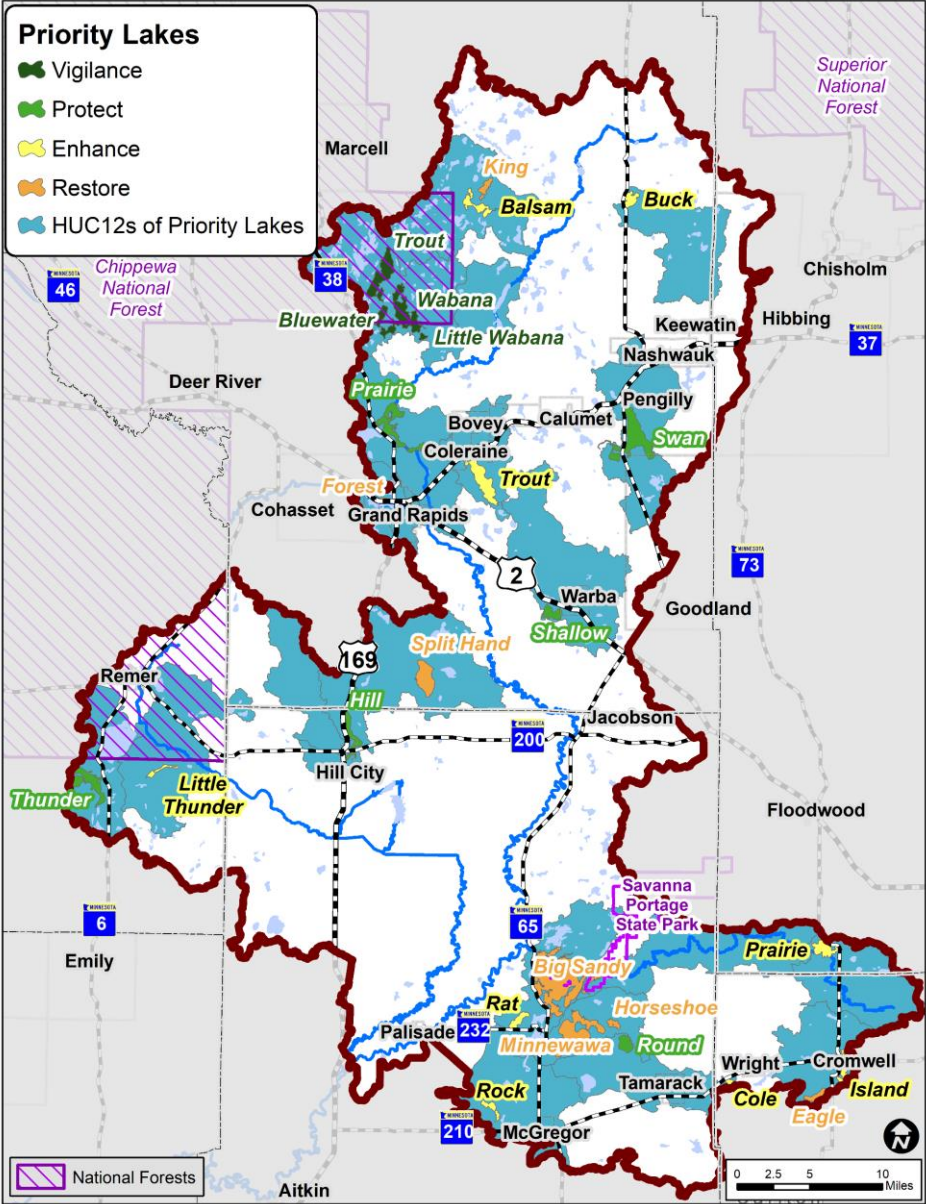
- Restore 3 miles of shoreline on Priority Lakes.
- Reduce phosphorus in Priority Enhance and Restore Lakes by 40 pounds/year.

Goal: Enhance priority lakes by reducing the phosphorus load and restoring shoreline.

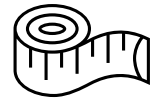


LAKES

Priorities



Goal: Protect or enhance one mile of priority stream to maintain healthy ecological conditions.



length/size of restoration



Cattle exclusion fencing and watering, riparian buffers, riparian enhancement, stream stabilization.



WRAPS



Impaired streams, eroding streams

Goal: Protect or enhance one mile of priority stream to maintain healthy ecological conditions.



metrics

Current Practices

Total livestock pipeline:
Streambank restoration:

2 miles
0.5 miles

Goal Setting

1 mile

Goal: Protect or enhance two miles of priority stream to maintain healthy ecological conditions.



STREAMS

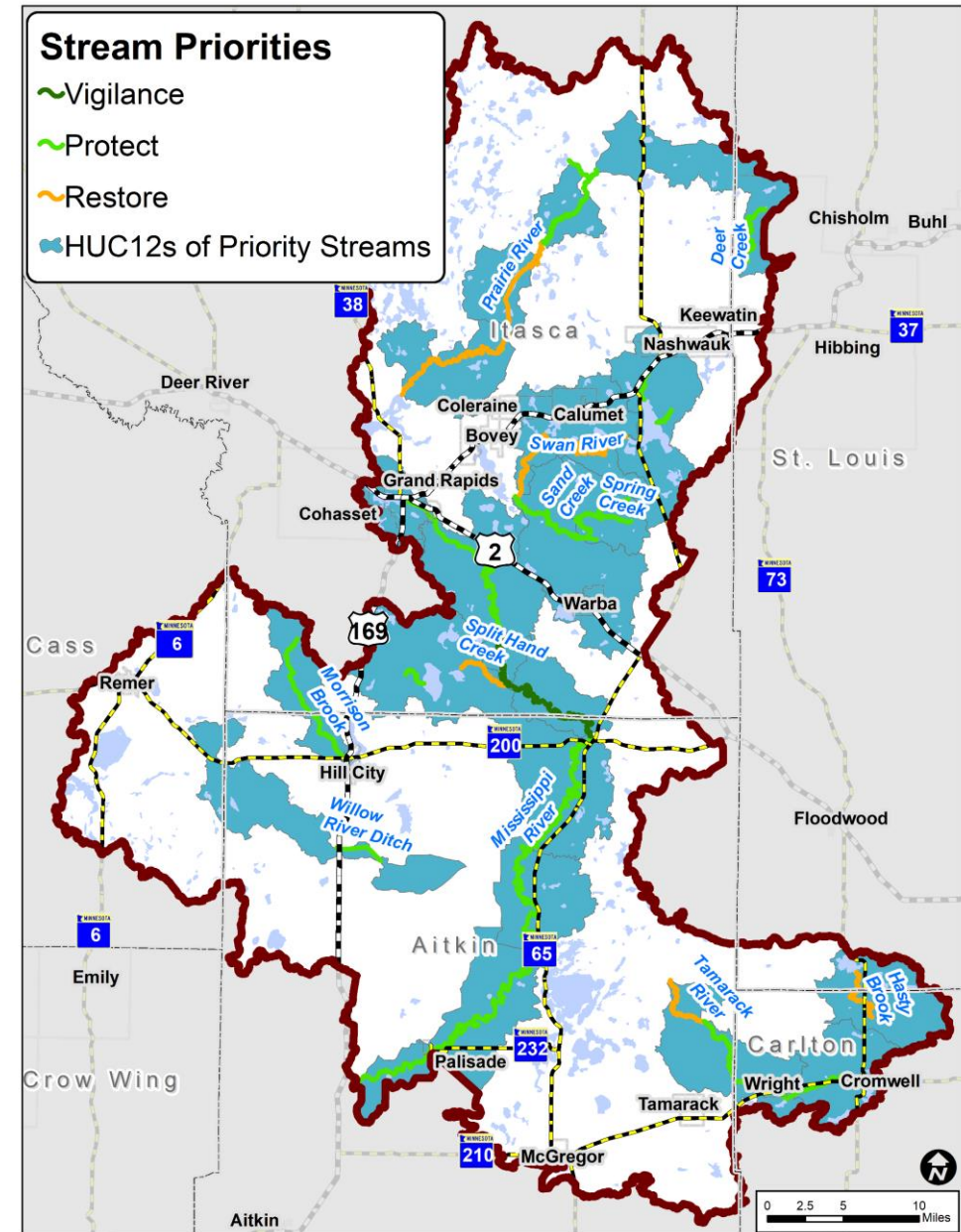
Prioritization

PROTECT

Protect land,
protective projects

RESTORE

Cattle fencing,
Riparian planting
Riparian enhancement
Stream stabilization

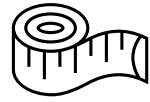


Goal: Obtain stormwater datasets for communities that drain to surface water, and implement X stormwater projects.



**STORM
WATER**

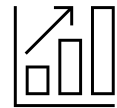
metrics



Number of stormwater studies, Number of stormwater projects



Stormwater management projects, incorporate stormwater management into infrastructure projects



Local data



Highest density of development, cities

Which cities do we want to focus on?

Community	County	Pop (2020)	Retrofit Analysis	Drain to Surface Water	Notes
Bovey	Itasca	662	Yes, 2021	Trout Lake	TSA funded
Calumet	Itasca	383		Unknown	
Cohasset	Itasca	2,481	Yes, 2015	Mississippi R, Jay Gould L.	Very edge of watershed, 2022 new info
Coleraine	Itasca	1,110	Yes, 2018	Trout Lake	
Cromwell	Carlton	143	Stormwater Assessment, 2020	Upper & Lower Island, Tamarack River	BWSR
Grand Rapids	Itasca	7,813	Yes, 2014	Mississippi R, Forest L, Hale L, McKinney L.	
Hill City	Aitkin	479		Hill Lake/River	
Keewatin	Itasca	1,164		Unknown	
La Prairie	Itasca	605	Yes, 2015	Mississippi R., Prairie R.	
Marble	Itasca	695		Unknown	
McGregor	Aitkin	404		Unknown	Rice L goes to There runoff
Nashwauk	Itasca	935		Unknown	
Palisade	Aitkin	118	Yes, 2015	Mississippi River	
Remer	Cass	372		Willow River to the east	Not su
Taconite	Itasca	315		Unknown	
Tamarack	Aitkin	59		No	
Warba	Itasca	183		Swan River	
Wright	Carlton	93		Tamarack River	Tamarack River is east of town

GOAL SETTING:

- Prioritize 11 communities that drain to surface water (Clean Water Funds)
- Are the 7 communities with a retrofit analysis done set up to start doing projects, or do they need more info?
- Do we want to prioritize obtaining stormwater data for the 4 communities highlighted in yellow in the next 10 years?

Does not include other small unincorporated, developed areas along Hwy 65 like Pengilly, Jabobson, Swan River, Goodland, Libby

Big Sandy stormwater projects from concentrated development

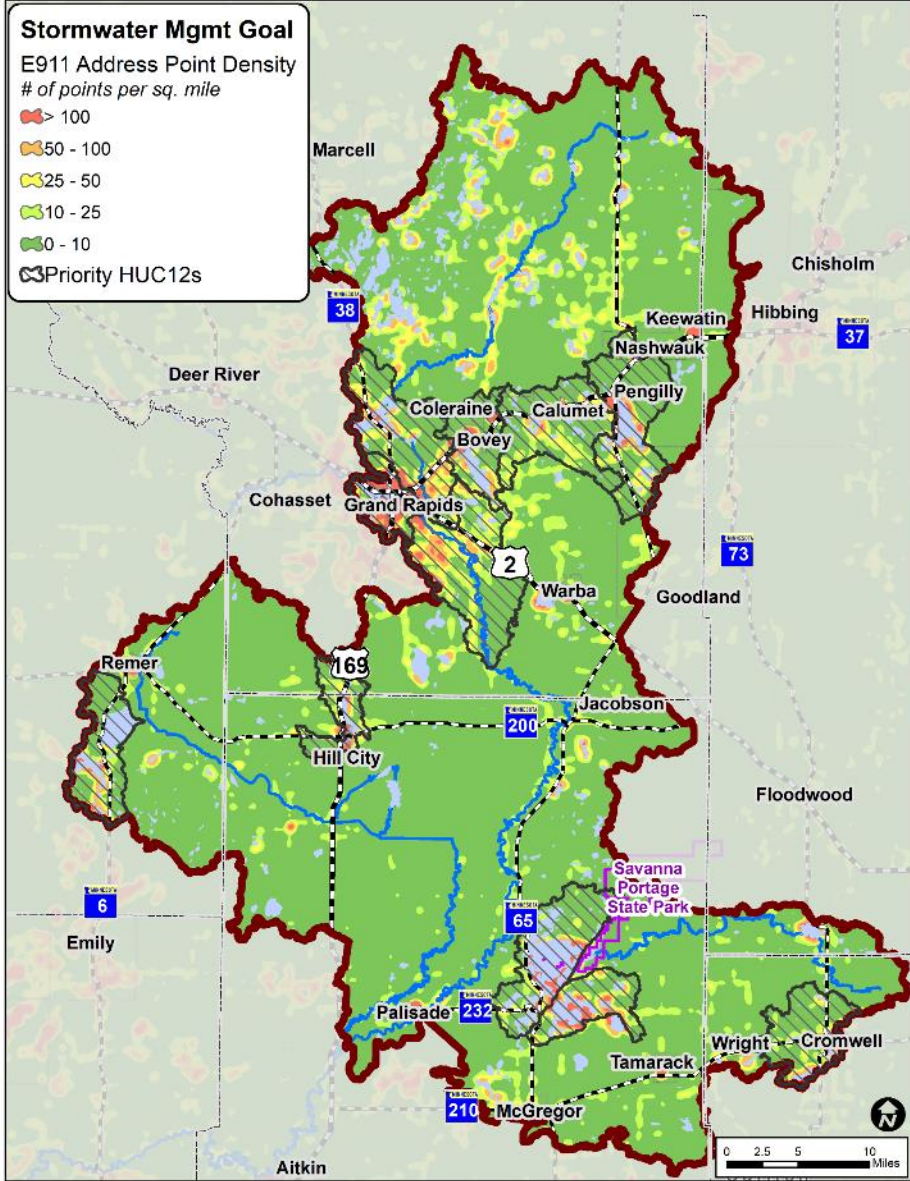
Minnewawa stormwater projects from concentrated development

Goal: Obtain stormwater datasets for communities that drain to surface water, and implement X stormwater projects.

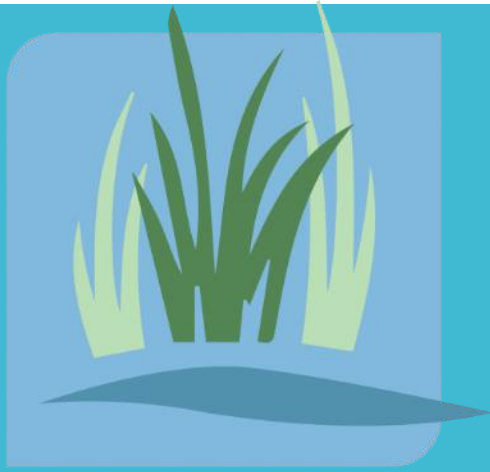


STORM WATER

metrics

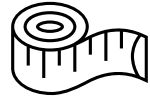


Goal: Maintain and enhance wetlands & peatlands in the watershed.



WETLANDS

metrics



Acres of peatland restoration, WCA reporting



Explore feasibility of peatland restoration, WCA reporting, encourage wetland banking credits, wetland enhancements, drainage maintenance?



Restorable peatlands, altered watercourses

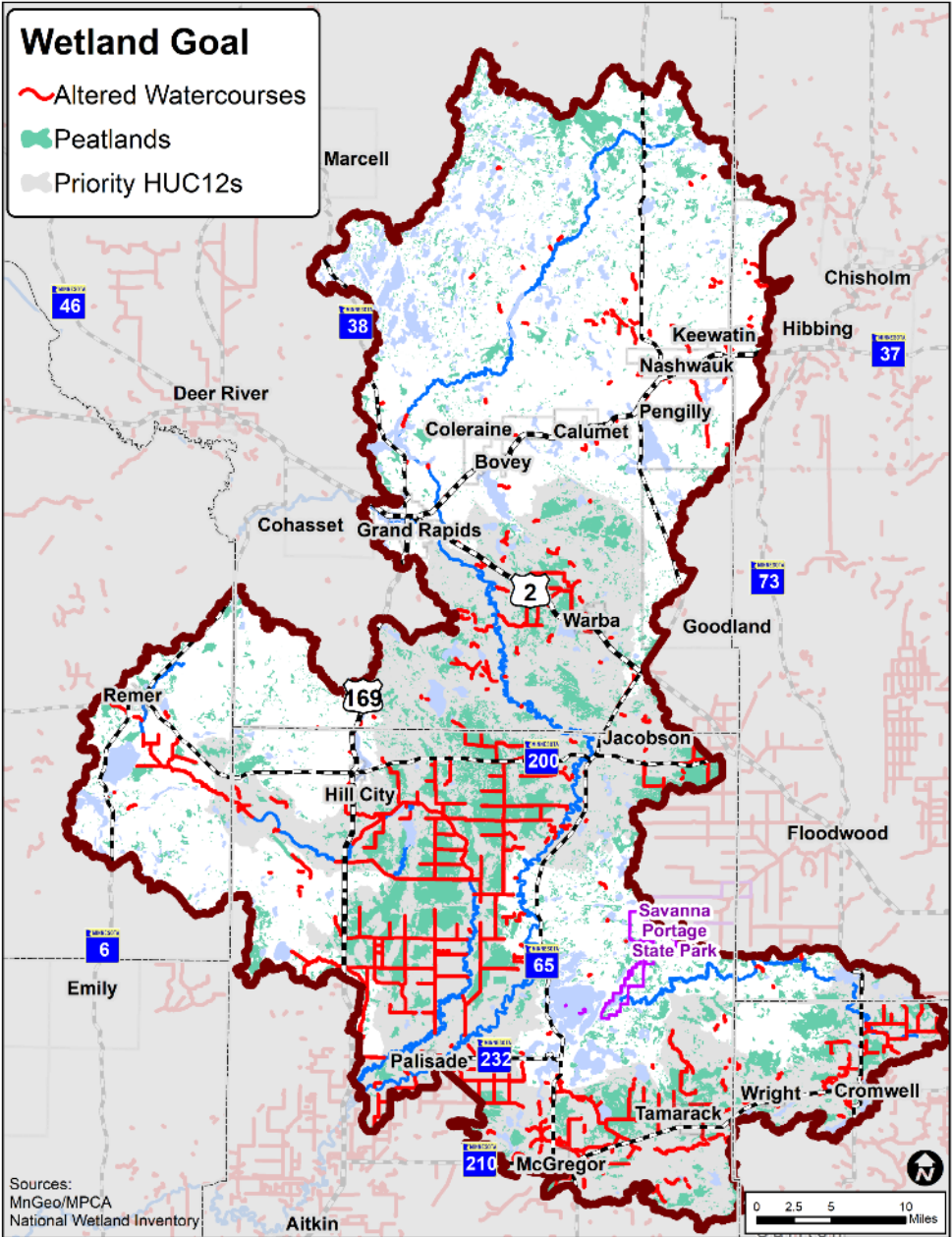
Goal: Maintain and enhance wetlands & peatlands in the watershed.

watershed.



WETLANDS

Metrics



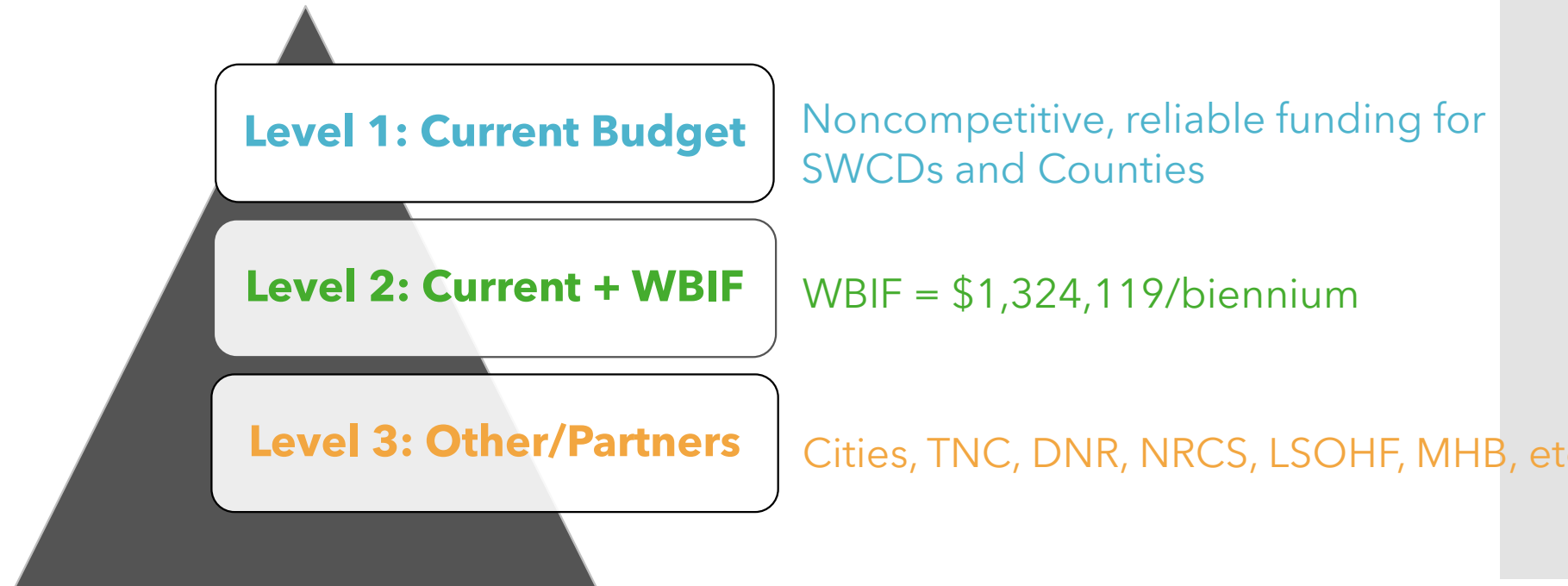


Local Budgets

Homework: Local Budgets



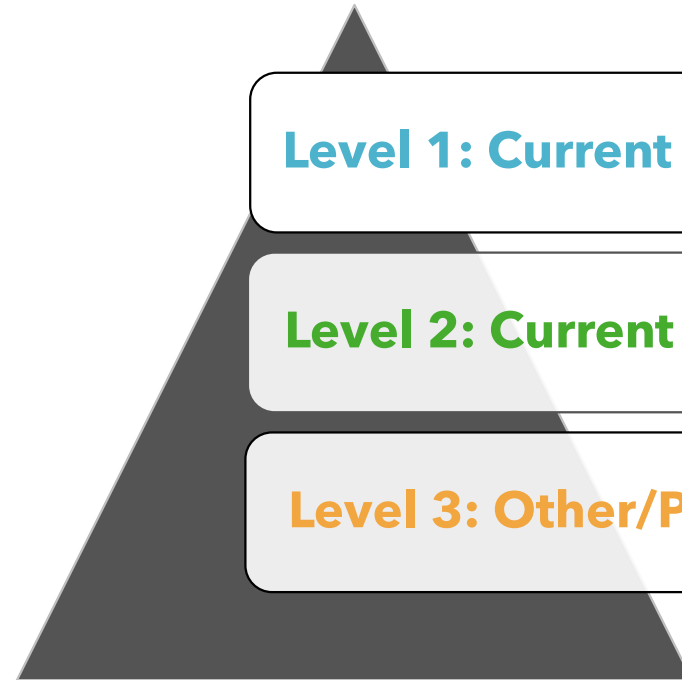
- BWSR Requirement → Estimate how much is currently being spent on Conservation in the watershed



Homework: Local Budgets



- BWSR Requirement → Estimate how much is currently being spent on Conservation in the watershed



Level 1: Current Budget

~\$720,000/year

Level 2: Current + WBIF

WBIF = \$1,324,119/biennium
\$ 662,059/year

Level 3: Other/Partners

Cities, TNC, DNR, NRCS, LSOHF, MHB, et



Visioning

Visioning

- A vision statement is an inspirational statement of an idealistic emotional future of a company or group.
- Elements of a good statement
 1. Sense of Place: unique identifiers
 2. Our Impact: changes for the better
 3. Short and to the point

Visioning - Examples

Miss River - Brainerd Watershed

We work together to safeguard the waters that draw people here, keeping farms farms and forests forests, a space for everybody.

Pine River Watershed

Harmonizing people, water, forests, and the economy in a place to renew your spirit.

Visioning

Sense of Place:
unique
identifiers

Our Impact:
what we envision
for our future

NEXT STEPS



- Next meeting: April 10
- Review actions tables
- Finalize vision
- Policy Committee meets March 28

- Please send scenic photos! We will credit you 😊