

Lessard-Sams Outdoor Heritage Council

Laws of Minnesota 2013 Accomplishment Plan



Date: September 23, 2014

Program or Project Title: Accelerated Wetland and Shallow Lake Enhancement

Funds Recommended: \$ 1,790,000

Manager's Name: Ricky Lien

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Legislative Citation: ML 2013, Ch. 137, Art. 1, Sec. 2, Subd. 4(f)

Appropriation Language: \$1,790,000 in the first year is to the commissioner of natural resources to enhance and restore shallow lakes, including \$210,000 for an agreement with Ducks Unlimited to help implement restorations and enhancements. A list of proposed land restorations and enhancements must be provided as part of the required accomplishment plan.

County Locations: Freeborn, Lincoln, Mille Lacs, Nicollet, Roseau, Todd, and Wilkin.

Regions in which work will take place:

- Forest / Prairie Transition
- Northern Forest
- Prairie

Activity types:

- Enhance

Priority resources addressed by activity:

- Wetlands

Abstract:

Many of Minnesota's wetlands have been lost and the remainder degraded. Fifteen-thousand acres of shallow lakes and wetlands, which provide critical habitat for each life stage of waterfowl and wetland wildlife, will be enhanced through design, construction, and intensive management.

Design and scope of work:

Minnesota's "Long Range Duck Recovery Plan," released in 2006, identified a strategic 50-year vision to "restore, protect, and manage a landscape capable of supporting an average spring breeding population of one million ducks and restoring the historically abundant spring and fall migration of waterfowl." A key component of this plan is the protection and management of 1,800 shallow lakes

High quality shallow lakes and wetlands have clear water and abundant rooted aquatic vegetation. Emergent aquatic plants such as rushes and wild rice provide protective cover from weather and predators and over-water nesting habitat, while submerged plants provide food in the form of seeds and tubers and critical habitat for aquatic invertebrates. Very shallow seasonal wetlands can be

critical sources of invertebrates and nutritious plant seeds during spring, early summer, and fall, particularly for dabbling ducks.

The quality of shallow lakes and wetlands providing wildlife habitat has declined markedly due to landscape changes, increased runoff carrying sediment and nutrients, and invasive plant and fish species. An estimated 90% of Minnesota's prairie wetlands have been lost, along with more than 50% of our wetland resources statewide. Throughout the state, the remaining shallow lakes and wetlands provide the critical habitat for each life stage of waterfowl and other wetland wildlife. Unfortunately these benefits are too often compromised by degraded habitat quality due to excessive runoff and invasive plants and fish. Only about one prairie wetland in five exhibits good quality vegetation, while just under one-third provide good habitat for invertebrates. In the forest-prairie transition, nearly half of all wetlands provide good habitat for invertebrates. However, they suffer from higher rates of infestations of invasive species than do prairie wetlands.

The habitat quality of these shallow lakes and wetlands can be markedly improved by installing fish barriers where needed and aggressively managing water levels to meet specific habitat problems and recommended objectives. This proposal applies scientific assessment to diagnose specific habitat problems and recommend treatments (Pre-design), engineer design of dikes, water control structures, and fish barriers (Design), install the design elements (Construction), and intensify the application of management techniques (Management).

Specifically, the DNR will complete construction for five water control projects and Ducks Unlimited, while not the contractor, will serve as the construction deliverable partner for a high priority fish barrier project that they have previously engineered. Piscicide treatments will be used to eradicate rough fish populations at two shallow lakes. The shallow lakes and wetlands identified for enhancement in this proposal were proposed and ranked by DNR Area Wildlife Supervisors through their respective Regional Wildlife Managers. Program managers may add, delete, or substitute projects on the approved parcel list based upon need, readiness, cost, opportunity, and/or urgency, so long as the substitute parcel/project meets the constitutional objectives of this program in the Project Scope table of this accomplishment plan. The final accomplishment plan report will include the final parcel list.

This proposal reflects the strategies of the 2006 DNR Duck Recovery Plan and the 2010 Shallow Lake Plan. These plans underwent substantial review by nearly all the major wetland wildlife conservation groups in Minnesota. Stakeholders have been supportive of the strategies outlined in the plans, although some have expressed frustration with long timelines.

Crops:

Will there be planting of corn or any crop on OHF land purchased or restored in this program - **Not Listed**

Which sections of the Minnesota Statewide Conservation and Preservation Plan are applicable to this project:

- H4 Restore and protect shallow lakes
- H5 Restore land, wetlands and wetland-associated watersheds

Which other plans are addressed in this proposal:

- A Vision for Wildlife and Its Use -- Goals and Outcomes 2006-2012
- Ducks Unlimited Living Lakes Initiative
- Long Range Duck Recovery Plan
- Managing Minnesota's Shallow Lakes for Waterfowl and Wildlife
- Minnesota DNR Nongame Wildlife Plans
- Minnesota DNR Strategic Conservation Agenda
- Minnesota Prairie Conservation Plan
- National Audubon Society Top 20 Common Birds in Decline
- North American Waterbird Conservation Plan
- North American Waterfowl Management Plan
- Northern Plains Prairie Potholes Regional Shorebird Conservation Plan
- Outdoor Heritage Fund: A 25 Year Framework
- Partners in Flight Conservation Plans for States and Physiographic Regions
- State Comprehensive Outdoor Recreation Plan
- Tomorrow's Habitat for the Wild and Rare
- U.S. Prairie Pothole Joint Venture Plan
- Upper Mississippi River and Great Lakes Region Projects Joint Ventures Plan

Which LSOHC state-wide priorities are addressed in this proposal:

- Address wildlife species of greatest conservation need, Minnesota County Biological Survey data, and rare, threatened and endangered species inventories in land and water decisions, as well as permanent solutions to aquatic invasive species
- Ensures activities for "protecting, restoring and enhancing" are coordinated among agencies, non profits and others while doing this important work
- Produce multiple enduring conservation benefits
- Restore or enhance habitat on state-owned WMAs, AMAs, SNAs, and state forests
- Target unique Minnesota landscapes that have historical value to fish and wildlife
- Use a science-based strategic planning and evaluation model to guide protection, restoration and enhancement, similar to the United States Fish and Wildlife Service's Strategic Habitat Conservation model

Which LSOHC section priorities are addressed in this proposal:

Forest / Prairie Transition:

- Protect, enhance, and restore wild rice wetlands, shallow lakes, wetland/grassland complexes, aspen parklands, and shoreland that provide critical habitat for game and nongame wildlife
- Protect, enhance, and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success

Northern Forest:

- Protect shoreland and restore or enhance critical habitat on wild rice lakes, shallow lakes, cold water lakes, streams and rivers, and spawning areas

Prairie:

- Protect, enhance, or restore existing wetland/upland complexes, or convert agricultural lands to new wetland/upland habitat complexes
- Restore or enhance habitat on public lands
- Protect, restore, and enhance shallow lakes
- Protect, enhance, and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success

Relationship to other funds:

- Not Listed

Interest in Minnesota's wetland and shallow lake habitats has resulted in numerous initiatives with a variety of funding sources, including the Environmental and Natural Resource Trust Fund and Clean Water Fund. The work from this proposal will complement the goals of other funds, though project selection is based on wildlife benefits.

How does this proposal accelerate or supplement your current efforts in this area:

The "Managing Minnesota's Shallow Lakes for Waterfowl and Wildlife" plan calls for the management and protection of 1,800 shallow lakes across the state for the benefit of waterfowl and wildlife. This work is needed, long overdue, and expensive. Only by obtaining funds from a variety of sources will the plan's goal be met within the plan timeframe. This proposed project supplements substantial expenditures and support by Game and Fish, Heritage Enhancement, Duck Stamp and Wild Rice funds to move Minnesota towards that goal.

How will you sustain and/or maintain this work after the Outdoor Heritage Funds are expended:

The management of enhanced wetlands and shallow lakes once construction is completed will fall on existing staff of the Department of Natural Resources. These staff are funded through license fees and legislative appropriations. Periodic enhancements such as invasive species removal, supplemental vegetation planting, or water control structure installation, maintenance, or replacement, will be accomplished through annual funding requests to a variety of funding sources including, but not limited to, the Game and Fish Fund, bonding, gifts, the Environmental and Natural Resources Trust Fund, the Outdoor Heritage Fund, and federal sources such as North American Wetlands Conservation Act grants.

Activity Details:

Is the activity on permanently protected land per 97A.056, subd 13(f) and/or public waters per MS 103G.005, Subd. 15 - **Yes (WMA, Public Waters)**

Accomplishment Timeline:

Activity	Approximate Date Completed
Complete construction of 5 new wetland and shallow lake water control projects	June, 2017
Complete construction (Ducks Unlimited) of 1 new fish barrier project to enhance shallow lake habitat	June, 2017
Complete piscicide treatments to eradicate rough fish populations in 2 shallow lakes	June, 2017

Federal Funding:

Do you anticipate federal funds as a match for this program - **Not Listed**

Outcomes:

Programs in the northern forest region:

- Protected, restored, and enhanced shallow lakes and wetlands

Programs in forest-prairie transition region:

- Protected, restored, and enhanced nesting and migratory habitat for waterfowl, upland birds, and species of greatest conservation need
- Wetland and upland complexes will consist of native prairies, restored prairies, quality grasslands, and restored shallow lakes and wetlands
- Protected, restored, and enhanced shallow lakes and wetlands

Programs in prairie region:

- Protected, restored, and enhanced shallow lakes and wetlands

Budget Spreadsheet

Budget reallocations up to 10% do not require an amendment to the Accomplishment Plan

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount

Not Listed

Total Amount of Request: \$ 1790000

Budget and Cash Leverage

BudgetName	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$18,000	\$0		\$18,000
Contracts	\$1,456,500	\$0		\$1,456,500
Fee Acquisition w/ PILT	\$0	\$0		\$0
Fee Acquisition w/o PILT	\$0	\$0		\$0
Easement Acquisition	\$0	\$0		\$0
Easement Stewardship	\$0	\$0		\$0
Travel	\$4,500	\$0		\$4,500
Professional Services	\$136,000	\$0		\$136,000
Direct Support Services	\$130,000	\$0		\$130,000
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$0	\$0		\$0
Supplies/Materials	\$45,000	\$0		\$45,000
DNR IDP	\$0	\$0		\$0
Total	\$1,790,000	\$0		\$1,790,000

Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
DU Professional Bioengineering Staff	0.25	1.00	\$18,000	\$0		\$18,000
Total	0.25	1.00	\$18,000	\$0		\$18,000

Budget and Cash Leverage by Partnership

BudgetName	Partnership	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	Ducks Unlimited	\$18,000	\$0		\$18,000
Contracts	Ducks Unlimited	\$187,500	\$0		\$187,500
Fee Acquisition w/ PILT	Ducks Unlimited	\$0	\$0		\$0
Fee Acquisition w/o PILT	Ducks Unlimited	\$0	\$0		\$0
Easement Acquisition	Ducks Unlimited	\$0	\$0		\$0
Easement Stewardship	Ducks Unlimited	\$0	\$0		\$0
Travel	Ducks Unlimited	\$4,500	\$0		\$4,500
Professional Services	Ducks Unlimited	\$0	\$0		\$0
Direct Support Services	Ducks Unlimited	\$0	\$0		\$0
DNR Land Acquisition Costs	Ducks Unlimited	\$0	\$0		\$0
Capital Equipment	Ducks Unlimited	\$0	\$0		\$0
Other Equipment/Tools	Ducks Unlimited	\$0	\$0		\$0
Supplies/Materials	Ducks Unlimited	\$0	\$0		\$0
DNR IDP	Ducks Unlimited	\$0	\$0		\$0
Total		\$210,000	\$0		\$210,000

Personnel - Ducks Unlimited

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
DU Professional Bioengineering Staff	0.25	1.00	\$18,000	\$0		\$18,000
Total	0.25	1.00	\$18,000	\$0		\$18,000

Budget Name	Partnership	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	MN DNR	\$0	\$0		\$0
Contracts	MN DNR	\$1,269,000	\$0		\$1,269,000
Fee Acquisition w/ PILT	MN DNR	\$0	\$0		\$0
Fee Acquisition w/o PILT	MN DNR	\$0	\$0		\$0
Easement Acquisition	MN DNR	\$0	\$0		\$0
Easement Stewardship	MN DNR	\$0	\$0		\$0
Travel	MN DNR	\$0	\$0		\$0
Professional Services	MN DNR	\$136,000	\$0		\$136,000
Direct Support Services	MN DNR	\$130,000	\$0		\$130,000
DNR Land Acquisition Costs	MN DNR	\$0	\$0		\$0
Capital Equipment	MN DNR	\$0	\$0		\$0
Other Equipment/Tools	MN DNR	\$0	\$0		\$0
Supplies/Materials	MN DNR	\$45,000	\$0		\$45,000
DNR IDP	MN DNR	\$0	\$0		\$0
Total		\$1,580,000	\$0		\$1,580,000

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0
Protect in Easement	0	0	0	0	0
Enhance	15,355	0	0	0	15,355
Total	15,355	0	0	0	15,355

Table 2. Total Requested Funding by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$1,790,000	\$0	\$0	\$0	\$1,790,000
Total	\$1,790,000	\$0	\$0	\$0	\$1,790,000

Table 3. Acres within each Ecological Section

Type	Metro Urban	ForestPrairie	SE Forest	Prairie	N Forest	Total
Restore	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0
Enhance	0	1,152	0	11,303	2,900	15,355
Total	0	1,152	0	11,303	2,900	15,355

Table 4. Total Requested Funding within each Ecological Section

Type	Metro Urban	ForestPrairie	SE Forest	Prairie	N Forest	Total
Restore	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$316,200	\$0	\$1,128,500	\$345,300	\$1,790,000
Total	\$0	\$316,200	\$0	\$1,128,500	\$345,300	\$1,790,000

Target Lake/Stream/River Feet or Miles

0

Parcel List

For restoration and enhancement programs ONLY: Managers may add, delete, and substitute projects on this parcel list based upon need, readiness, cost, opportunity, and/or urgency so long as the substitute parcel/project forwards the constitutional objectives of this program in the Project Scope table of this accomplishment plan. The final accomplishment plan report will include the final parcel list.

Section 1 - Restore / Enhance Parcel List

Freeborn

Name	T RDS	Acres	Est Cost	Existing Protection?
Shell Rock WMA - Rotenone	10120217	650	\$70,000	Yes
State Line Lake WMA - Rotenone	11022233	472	\$100,000	Yes

Lincoln

Name	T RDS	Acres	Est Cost	Existing Protection?
Blue Wing WMA - WCS	11246236	21	\$80,300	Yes

Mille Lacs

Name	T RDS	Acres	Est Cost	Existing Protection?
Mille Lacs WMA HQ - WCS	04026216	2,900	\$294,000	Yes

Nicollet

Name	T RDS	Acres	Est Cost	Existing Protection?
Swan Lake WMA - Fish Barrier	10928206	10,000	\$210,000	Yes

Roseau

Name	T RDS	Acres	Est Cost	Existing Protection?
Roseau WMA Pool 1 W - WCS	16342209	1,150	\$201,000	Yes

Todd

Name	T RDS	Acres	Est Cost	Existing Protection?
Hartford WMA - WCS	13033224	2	\$68,200	Yes

Wilkin

Name	T RDS	Acres	Est Cost	Existing Protection?
Manston WMA - MSU	13546230	160	\$500,500	Yes

Section 2 - Protect Parcel List

No parcels with an activity type protect.

Section 2a - Protect Parcel with Bldgs

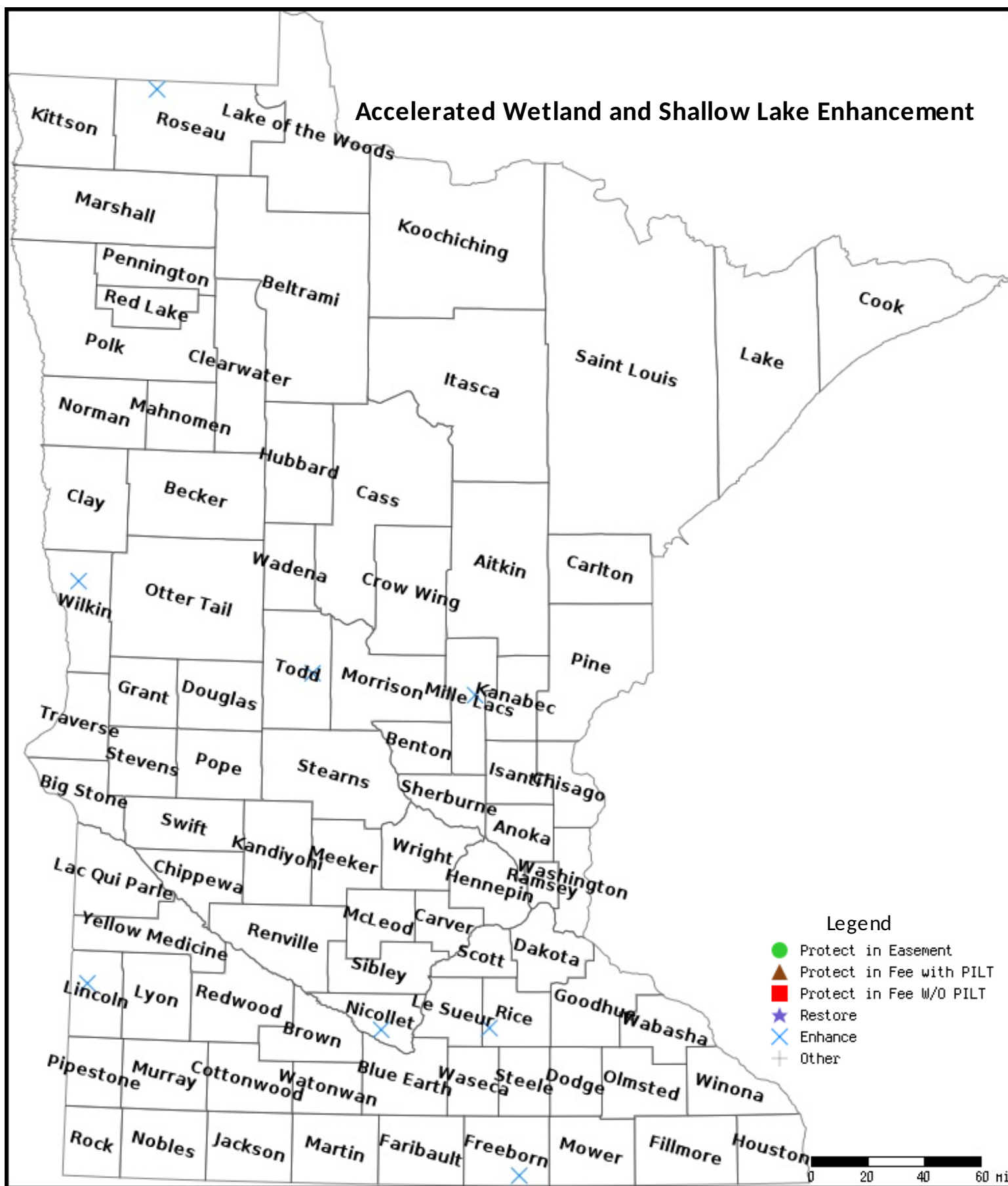
No parcels with an activity type protect and has buildings.

Section 3 - Other Parcel Activity

No parcels with an other activity type.

Parcel Map

Accelerated Wetland and Shallow Lake Enhancement



Data Generated From Parcel List