

Lessard-Sams Outdoor Heritage Council

Fiscal Year 2019 / ML 2018 Request for Funding



Date: May 30, 2017

Program or Project Title: DNR Grassland Enhancement Ph X

Funds Requested: \$17,068,200

Manager's Name: Greg Hoch

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County Locations: Aitkin, Anoka, Becker, Beltrami, Benton, Big Stone, Blue Earth, Brown, Carver, Cass, Chippewa, Clay, Clearwater, Cottonwood, Crow Wing, Dakota, Dodge, Douglas, Fillmore, Freeborn, Goodhue, Grant, Hennepin, Houston, Hubbard, Jackson, Kandiyohi, Kittson, Lac qui Parle, Lac Qui Parle, Lincoln, Lyon, Mahnommen, Marshall, McLeod, Meeker, Mille Lacs, Morrison, Mower, Murray, Norman, Olmsted, Otter Tail, Pipestone, Polk, Pope, Red Lake, Redwood, Renville, Rice, Roseau, Scott, Sherburne, Stearns, Steele, Stevens, Swift, Todd, Traverse, Wabasha, Washington, Wilkin, Winona, Wright, and Yellow Medicine.

Regions in which work will take place:

- Northern Forest
- Forest / Prairie Transition
- Southeast Forest
- Prairie
- Metro / Urban

Activity types:

- Restore
- Enhance

Priority resources addressed by activity:

- Wetlands
- Prairie

Abstract:

This programmatic request will build on the DNR's previous efforts to enhance and restore grasslands, prairies, and savannas. We will use the Prairie Conservation Plan and Pheasant Summit Action Plan to guide these efforts in a strategic and targeted manner. This proposal will work on a number of types of permanently protected habitats, most of which are open to public hunting, including; DNR WMAs, SNAs, AMAs, Prairie Bank Easements, State Forests, as well as USFWS WPAs and Refuges.

Design and scope of work:

Almost by definition, the prairie is a disturbance-dependent habitat or ecosystem. The diversity and productivity of grasslands is structured by three factors; fire, periodic grazing, and weather extremes especially periodic droughts. While we have no direct control over short-term weather patterns, one of the primary goals of enhancement / management work is replicating the historic fire and grazing patterns that maintained the diversity and productivity of the prairies.

In recent years, Minnesota has lost large amounts of grasslands. CRP acres are down 770,000 acres since their peak in 2007. We continue to lose native prairie to the plow, housing development, and gravel quarry.

Because of these losses of grassland and wetland habitat across western Minnesota, it is that much more important that the public grasslands in this region are as productive as possible for wildlife and pollinators.

This programmatic request seeks funding to enhance grassland habitat on permanently protected grasslands and prairies, most of which are open to public hunting. Without periodic management to simulate historical disturbance patterns, grassland become less diverse and less productive. Invasive species may increase and woody vegetation will encroach into the grasslands, changing their very character and the species that inhabit the area. The activities listed in this proposal will use BMPs for grassland enhancement and diverse local ecotype seed mixes for restoration.

In earlier grassland appropriations from the DNR and partners, there was some confusion on Initial Development Plans (IDP) for newly acquired WMAs and that initial development wasn't completed. This proposal requests funded under the first budget item to complete this backlog. More recent protection appropriations have included full IDP in the proposal.

Contract work for prescribed fire, woody species removal, invasive species control, grassland restoration, and other enhancement efforts. Requests includes a contract coordinator.

WMA Habitat Enhancement and restoration (27,300 acres) over five years - \$8,518,900

This request seeks to enhance grassland habitat by continuing funding a DNR Region 4 (Southern) Roving Crew. Building on this successful model, this year we are proposing a second Roving Crew for Region 4.

DNR Region 4 Roving Crews (40,000) acres over 5 yrs - \$4,500,000

This request will restore and enhance native prairies on SNAs and Prairie Bank easements as described above for WMAs.

SNA/PB Enhancement and restoration (3150 acres) - \$3,053,900

We are partnering with the USFWS to increase their capacity for prescribed fire in WPAs.

USFWS Prescribed Fire Enhancements (30,000 acres) - \$1,000,000

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

- H1 Protect priority land habitats
- H3 Improve connectivity and access to recreation

Which other plans are addressed in this proposal:

- Long Range Plan for the Ring-Necked Pheasant in MN
- Minnesota Prairie Conservation Plan

Describe how your program will advance the indicators identified in the plans selected:

Both the Prairie Plan and Pheasant Plan identify target acreages for enhancement. These funds, combined with other DNR funds and funding through the USFWS, as well as other grants to our conservation partners (ie. North American Wetland Conservation Act, NAWCA, and others), are all part of the overall strategy among the conservation community for increasing the acres enhanced and restored of grasslands and associated wetlands in Minnesota.

These plans also help guide and focus that work where the science tells us we will have the 'biggest bang for the buck' in terms of habitat quality and wildlife populations.

Which LSOHC section priorities are addressed in this proposal:

Prairie:

- Restore or enhance habitat on public lands

Forest / Prairie Transition:

- Protect, enhance, and restore rare native remnant prairie

Northern Forest:

- Restore and enhance habitat on existing protected properties, with preference to habitat for rare, endangered, or threatened species identified by the Minnesota County Biological Survey

Metro / Urban:

- Protect, enhance, and restore remnant native prairie, Big Woods forests, and oak savanna with an emphasis on areas with high

biological diversity

Southeast Forest:

- Protect, enhance, and restore remnant goat prairies

Describe how your program will produce and demonstrate a significant and permanent conservation legacy and/or outcomes for fish, game, and wildlife as indicated in the LSOHC priorities:

The work done under this proposal will be done on land under permanent conservation protection. However, by the very nature of habitat and wildlife management, these enhancements will not be permanent. Grasslands rely on periodic disturbances, fire being the most frequently used tool. To maintain the health and diversity of grasslands, they need to be burned every 4 to 10 years.

With our restorations, we are leaving a lasting legacy. Historically, restorations included a few species, often non-natives such as brome or sweetclover. They have only the remotest resemblances to native prairies. Our use in recent years of 40-80 species seed mixes and local ecotype seed is dramatically improving the quality of our restorations for wildlife and pollinators. We aren't there yet, but the diversity and structure of our newer restorations looks much better than restorations from even a few years ago.

Describe how the proposal uses science-based targeting that leverages or expands corridors and complexes, reduces fragmentation or protects areas identified in the MN County Biological Survey:

The projects in this proposal will be guided primarily by the Prairie Conservation Plan and Pheasant Summit Action Plan. First and foremost, these Plans outline focal areas (Core Areas and Habitat Complexes) where we can build on an existing base of conservation lands and improve the habitat there. The latest science is telling us that it isn't the size of an individual habitat parcel that matters as much as the amount of habitat in the larger surrounding landscape. These Plans, and the work proposed here, build on these concepts of landscape level habitat planning. While we will not restrict ourselves to these focal areas, there are critical habitats outside these areas, we intend to focus our efforts in areas where they can do the most good. This includes both the core areas and habitat complexes as well as the corridors in between them that will allow wildlife populations to disperse across the region.

The new State Wildlife Action Plan (SWAP) is currently being integrated with the Prairie Plan to help us determine where to focus the monitoring work SWAP staff hopes to conduct.

Additionally, the conservation partners (DNR, USFWS, TNC, and Audubon) recently submitted a grant through the USFWS to help us monitor habitat quality, wildlife abundance, and the response of wildlife to all OHF funded activities in these areas. This proposal has been submitted and is in review.

How does the proposal address habitats that have significant value for wildlife species of greatest conservation need, and/or threatened or endangered species, and list targeted species:

Grasslands continue to be the most threatened habitat or ecosystem, both in Minnesota and across the Midwest. At the same time, grassland wildlife populations continue to decline.

According to the new State Wildlife Action Plan, Minnesota's grasslands contain 4 state threatened species, 14 state endangered species, and 29 species of concern. The species on this list include 1 amphibian, 11 birds, 5 mammals, 16 moths and butterflies, 9 other invertebrates, and 5 reptiles.

Birds are one of the most heavily studied groups. Among grassland songbirds, western meadowlarks, bobolink, and dickcissel populations have declined 18, 41, and 70% respectively from 2007 to 2015 according to the Breeding Bird Survey, probably as a result of CRP losses.

Monarch butterflies are in a state of drastic decline. The Dakota skipper was recently federally listed as threatened and the Poweshiek's skipperling as endangered.

Since 2007, the peak year for CRP, there have been the following changes in our grassland wildlife populations: duck harvest has declined 6%, Canada goose harvest is down 24%, other geese down 42%, pheasants down 63%, and gray partridge down 71%. Although not heavily hunted, white-tailed jackrabbit and snipe harvest have declined 92 and 94% respectively.

Clearly, grassland game and non-game wildlife are in significant decline in Minnesota.

Identify indicator species and associated quantities this habitat will typically support:

Pheasant

By looking at the ratios of CRP acres in Minnesota to pheasant harvest, we can estimate that every three acres of grassland habitat has the potential to produce one harvested pheasant rooster.

Prairie Chickens

According to the research literature and personal observations in Minnesota, prairie chickens require a minimum of 320 acres of high quality grasslands with no areas hostile to grassland wildlife (woodlots, farmsteads, etc) near these grasslands. For every 320 acre patch of high quality grassland in the prairie chicken range in the northwest part of the state, we can expect there to be a lek, or booming ground. The average size of booming grounds in Minnesota is roughly 11 males.

Bobolink and Grasshopper Sparrow

The breeding territory size of bobolinks and grasshopper sparrows is 1.7 and 2.1 acres respectively in high quality habitat in Wisconsin. If all of the habitat was occupied, a 100 acres of habitat could potentially hold approximately 60 and 48 pairs of bobolinks and grasshopper sparrows respectively.

Monarch Butterfly

Research from the University of Minnesota has shown that it takes approximately 30 milkweed result in one monarch butterfly contributing to the overwintering Mexican population. Grasslands can have between 100-250 milkweed stems per acre. An acre of restored or enhanced grassland could potentially contribute 3 to 8 monarchs to the population.

Outcomes:

Programs in the northern forest region:

- Healthy populations of endangered, threatened, and special concern species as well as more common species *Monitoring will take place with the base level monitoring conducted by DNR staff and staff from other agencies/NGOs. This includes surveys such as pheasant, sharp-tailed grouse, and woodcock, which are all dependent on open areas.*

Programs in forest-prairie transition region:

- Protected, restored, and enhanced nesting and migratory habitat for waterfowl, upland birds, and species of greatest conservation need *This proposal will be primarily focused on enhancing grasslands. Migratory game and non-game birds will be some of the primary beneficiaries of this work. We are working with the University of Minnesota to incorporate graduate students into research and monitoring work.*

Programs in metropolitan urbanizing region:

- Core areas protected with highly biologically diverse wetlands and plant communities, including native prairie, Big Woods, and oak savanna *Monitoring will take place with the base level monitoring conducted by DNR staff and staff from other agencies/NGOs.*

Programs in southeast forest region:

- Healthier populations of endangered, threatened, and special concern species as well as more common species *Monitoring will primarily be done through studies conducted by the DNR's Ecological and Water Resources Division of key indicator species such as timber rattlesnakes.*

Programs in prairie region:

- Restored and enhanced upland habitats *The multi-agency/NGO Grassland Monitoring Team (GMT) has developed standardized protocols for sampling grassland vegetation and a number of the sites on this request will be sampled over the 5 year period.*

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

Continuing maintenance and enhancement of these sites will be conducted by DNR Wildlife staff on WMAs, DNR EWR staff on SNAs and NPB, and by the USFWS on WPAs and Refuges. Maintaining appropriate levels of enhancement on all conservation lands will be dependent on future requests from OHF, Game and Fish Fund, bonding, USFWS operating budgets, Special Projects funds for SNA, and other grants such as the North American Wetland Conservation Act (NAWCA). The OHF provides Minnesota's conservation community with a large amount of non-Federal dollars as match that other Midwestern states don't have. In recent years, the Minnesota prairie conservation partners have been maximizing our efforts in these areas.

Explain the things you will do in the future to maintain project outcomes:

Year	Source of Funds	Step 1	Step 2	Step 3
2021	Those listed above and OHF	monitor subset of completed projects	document results using Strategic Habitat Conservation (SHC) framework	Determine capacity for traditional funds to meet objectives
2022 and beyond	Those listed above and OHF	continue to iteratively apply SHC	adapt results for future projects	continue monitoring and research, develop more partnerships with university programs

What is the degree of timing/opportunistic urgency and why it is necessary to spend public money for this work as soon as possible:

Since 2007, Minnesota has lost 770,000 acres of grasslands from the Conservation Reserve Program. At the same time, the DNR recently completed an analysis of native prairie and found we are still losing around 200 acres per year. In the Bois de Sioux Watershed, tile permits increased from 65 miles in 2000 to 390 miles in 2008 to 3157 miles by 2013. We can extrapolate that rate of drainage increase across western Minnesota. In a 2014 publication from the USFWS, between 1997 and 2009, Minnesota ranked highest among 5 Upper Midwest/Plains states for wetland loss with an 18 percent decline in wetlands over that time period.

We must continue to act to maintain the quality and productivity of our remaining grasslands.

How does this proposal include leverage in funds or other effort to supplement any OHF appropriation:

Not Listed

Relationship to other funds:

- Not Listed

Describe the relationship of the funds:

Not Listed

Describe the source and amount of non-OHF money spent for this work in the past:

Appropriation Year	Source	Amount
2016	Game and Fish (Wildlife Operations)	22,700,000
2016	Dedicated Account Fund (Duck Stamp, Pheasant Stamp, etc)	5,300,000
2016	Heritage Enhancement Acct	3,300,000

Activity Details

Requirements:

If funded, this proposal will meet all applicable criteria set forth in MS 97A.056 - **Yes**

Will restoration and enhancement work follow best management practices including MS 84.973 Pollinator Habitat Program - **Yes**

Is the activity on permanently protected land per 97A.056, subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15 - **Yes**
(WMA, WPA, SNA, AMA, Private Land, Refuge Lands, State Forests)

Do you anticipate federal funds as a match for this program - **No**

Land Use:

Will there be planting of corn or any crop on OHF land purchased or restored in this program - **Yes**

Explain

There is the potential for some crop plantings on our restoration sites. Both the DNR and Division of Fish and Wildlife are currently finishing up their Farming Practices review and any row-cropping will follow these Guidelines and BMPs. For instance, no neonic treated seed is allowed on DNR lands and use of other farm chemicals will be significantly reduced.

Are any of the crop types planted GMO treated - **Yes**

Accomplishment Timeline

Activity	Approximate Date Completed
WMA Enhancement / Restoration - contracts	6/30/2023
SNA / NPB Enhancements	6/30/2023
Roving Crew enhancements and restoration	6/30/2023
WPA/NWR Rx fire	6/30/2021

Budget Spreadsheet

Total Amount of Request: \$17,068,200

Budget and Cash Leverage

BudgetName	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$4,302,800	\$0		\$4,302,800
Contracts	\$6,758,700	\$0		\$6,758,700
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	\$1,771,200	\$0		\$1,771,200
Professional Services	\$0	\$0		\$0
Direct Support Services	\$607,300	\$0		\$607,300
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$5,000	\$0		\$5,000
Supplies/Materials	\$3,623,200	\$0		\$3,623,200
DNR IDP	\$0	\$0		\$0
Total	\$17,068,200	\$0	-	\$17,068,200

Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
DNR Roving Crew Region 4	6.00	5.00	\$1,500,000	\$0		\$1,500,000
DNR Roving Crew Region 4 - second crew	6.00	5.00	\$1,500,000	\$0		\$1,500,000
DNR FAW contract administrator	1.00	4.00	\$400,000	\$0		\$400,000
Contract manager	0.16	4.00	\$59,400	\$0		\$59,400
SNA-NPB specs and techs	2.66	4.00	\$745,300	\$0		\$745,300
laborers and seasonals	0.70	4.00	\$98,100	\$0		\$98,100
Total	16.52	26.00	\$4,302,800	\$0	-	\$4,302,800

Amount of Request: \$17,068,200

Amount of Leverage: \$0

Leverage as a percent of the Request: 0.00%

DSS + Personnel: \$4,910,100

As a % of the total request: 28.77%

Easement Stewardship: \$0

As a % of the Easement Acquisition: -%

How did you determine which portions of the Direct Support Services of your shared support services is direct to this program:

We used the DNR's Direct and Necessary (D&N) calculator that was created for LSOHC/OHF and LCCMR/ENRTF proposals.

Does the amount in the contract line include R/E work?

Almost all of the funds on the contract line are for enhancements and restorations. Many of the supplies are for seed used in restorations.

Does the amount in the travel line include equipment/vehicle rental? - Yes

Explain the amount in the travel line outside of traditional travel costs of mileage, food, and lodging:

Anything related to travel for the Roving Crews we place in the travel line. This includes basic mileage and lodging as well as equipment rentals and leases, etc.

Describe and explain leverage source and confirmation of funds:

Not Listed

Does this proposal have the ability to be scalable? - Yes

Tell us how this project would be scaled and how administrative costs are affected, describe the “economy of scale” and how outputs would change with reduced funding, if applicable:

Because the proposal consists of numerous small projects, we can remove or add new projects, depending on the final allocation. Outputs and administrative costs (D&N calculator) would be redone and scaled appropriately.

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	5,808	0	0	5,808
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	0	94,628	0	0	94,628
Total	0	100,436	0	0	100,436

Table 1b. How many of these Prairie acres are Native Prairie?

Type	Native Prairie
Restore	0
Protect in Fee with State PILT Liability	0
Protect in Fee W/O State PILT Liability	0
Protect in Easement	0
Enhance	9,400
Total	9,400

Table 2. Total Requested Funding by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$1,884,500	\$0	\$0	\$1,884,500
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	\$0	\$15,183,700	\$0	\$0	\$15,183,700
Total	\$0	\$17,068,200	\$0	\$0	\$17,068,200

Table 3. Acres within each Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore	159	0	151	4,303	1,195	5,808
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	2,970	6,898	2,549	81,909	302	94,628
Total	3,129	6,898	2,700	86,212	1,497	100,436

Table 4. Total Requested Funding within each Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore	\$110,300	\$0	\$235,700	\$806,700	\$731,800	\$1,884,500
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	\$766,600	\$1,190,500	\$1,105,100	\$11,701,500	\$420,000	\$15,183,700
Total	\$876,900	\$1,190,500	\$1,340,800	\$12,508,200	\$1,151,800	\$17,068,200

Table 5. Average Cost per Acre by Resource Type

Type	Wetlands	Prairies	Forest	Habitats
Restore	\$0	\$324	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0
Enhance	\$0	\$160	\$0	\$0

Table 6. Average Cost per Acre by Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest
Restore	\$694	\$0	\$1,561	\$187	\$612
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	\$258	\$173	\$434	\$143	\$1,391

Target Lake/Stream/River Feet or Miles

0

I have read and understand Section 15 of the Constitution of the State of Minnesota, Minnesota Statute 97A.056, and the Call for Funding Request. I certify I am authorized to submit this proposal and to the best of my knowledge the information provided is true and accurate.

Parcel List

Explain the process used to select, rank and prioritize the parcels:

While do don't want to ignore any area of the state, we will prioritize projects using the guidance of the Prairie Plan Core and Corridors as well as the Pheasant Plan habitat complexes. We will also prioritize any other area where we have a complex of public lands, multiple adjacent WMAs or WMAs adjoining WPAs, and similar situations. As new opportunities arise, we would add new parcels to this list as long as they are within the scope of the overall project proposal.

Section 1 - Restore / Enhance Parcel List

Aitkin

Name	TRDS	Acres	Est Cost	Existing Protection?
Gun Lake WMA	04825204	340	\$216,600	Yes
Gun Lake WMA	04825204	740	\$363,200	Yes

Anoka

Name	TRDS	Acres	Est Cost	Existing Protection?
Blaine Preserve	03123226	4	\$14,800	Yes
Blaine Preserve	03123226	10	\$13,000	Yes
Carlos Avery WMA: Carlos Avery Unit	03322233	600	\$13,400	Yes
Robert and Marilyn Burman WMA	03324223	30	\$33,500	Yes

Becker

Name	TRDS	Acres	Est Cost	Existing Protection?
Agassiz-Olson WMA	13939208	150	\$111,800	Yes
Donley-Tilman WPA and others	14142214	22,000	\$1,000,000	Yes
White Earth 20-1 (Pederson)	14241220	2	\$14,800	Yes
White Earth 20-1 (Pederson)	14241220	5	\$17,800	Yes
White Earth 20-1 (Pederson)	14241220	60	\$15,600	Yes

Beltrami

Name	TRDS	Acres	Est Cost	Existing Protection?
Bemidji Slough WMA	14633228	33	\$17,000	Yes
Woodrow Pediocetes WMA	15231227	13	\$5,300	Yes

Benton

Name	TRDS	Acres	Est Cost	Existing Protection?
Aurzada Prairie WMA	12733209	1,000	\$2,800	Yes
BenLacs WMA: Main Unit	03628213	9	\$19,600	Yes
Glendorado WMA: Main Unit	03628225	12	\$36,300	Yes

Big Stone

Name	TRDS	Acres	Est Cost	Existing Protection?
Big Stone 6 NPB	12246206	5	\$7,400	Yes
Bonanza Prairie SNA	12348220	7	\$9,300	Yes
Foster 34-1 NPB	12348234	30	\$8,700	Yes
Johnson NPB	12247201	2	\$1,300	Yes
Johnson NPB	12247212	40	\$9,200	Yes
Lac qui Parle WMA: Controlled Hunting Zone	11841206	1,230	\$481,700	Yes
Schellberg NPB	12146201	50	\$9,700	Yes

Blue Earth

Name	TRDS	Acres	Est Cost	Existing Protection?
Bakers Lake WMA	10225201	195	\$114,000	Yes
Born WMA	10525224	85	\$134,100	Yes

Brown

Name	TRDS	Acres	Est Cost	Existing Protection?
Bashaw WMA: Central Unit	10834221	10	\$11,200	Yes
Cottonwood River Prairie SNA	10935231	35	\$5,700	Yes
Eden North 19-1 NPB	11233219	4	\$9,800	Yes
Linden 6 NPB	10830206	10	\$7,700	Yes
Linden 6 NPB	10830206	23	\$6,500	Yes

Carver

Name	TRDS	Acres	Est Cost	Existing Protection?
Bradshaw Lake WMA	11321211	27	\$3,000	Yes
Bradshaw Lake WMA	11321211	320	\$2,500	Yes
Bradshaw Lake WMA	11321211	540	\$3,900	Yes
Bradshaw Lake WMA	11322215	22	\$4,400	Yes
Bradshaw Lake WMA	11322215	42	\$3,500	Yes
Gravel Pit 1748 WMA	11626220	5	\$2,200	Yes
Raguet WMA	11623236	31	\$3,100	Yes
Schneewind WMA	11625234	15	\$6,700	Yes
Seminary Fen	11623235	8	\$35,400	Yes
Seminary Fen	11623235	20	\$20,000	Yes

Cass

Name	TRDS	Acres	Est Cost	Existing Protection?
Meadow Brook WMA	13531222	73	\$64,800	Yes

Chippewa

Name	TRDS	Acres	Est Cost	Existing Protection?
Boon Lake WMA	11631204	160	\$53,600	Yes
Cabinrock WMA	11831233	50	\$50,300	Yes
Franko WMA	11639205	50	\$61,500	Yes
Lac qui Parle WMA: Controlled Hunting Zone	11841206	94	\$15,800	Yes
Lac qui Parle WMA: Controlled Hunting Zone	11842213	40	\$22,700	Yes

Clay

Name	TRDS	Acres	Est Cost	Existing Protection?
Assinaboia	14245220	1	\$7,400	Yes
B-B NPB	14146213	2	\$14,800	Yes
Bicentennial-all units	14145205	1	\$7,400	Yes
Blanket Flower-all units	13744214	1	\$7,400	Yes
Felton Prairie-County Land	14245231	1	\$7,400	Yes
Felton Prairie-County Land	14245231	5	\$26,800	Yes
Felton Prairie-County Land	14245231	75	\$16,300	Yes
Flowing 12-1 NPB	14146212	1	\$7,400	Yes
Flowing 12-1 NPB	14146212	100	\$17,500	Yes
Shrike	14245230	1	\$7,400	Yes
Strand N & S NPB	14244219	2	\$14,800	Yes
Ulen 29-1 NPB	14244229	2	\$14,800	Yes

Clearwater

Name	TRDS	Acres	Est Cost	Existing Protection?
Carter WMA	14838219	18	\$11,200	Yes
Mosquito Creek WMA	14637219	48	\$33,300	Yes

Cottonwood

Name	TRDS	Acres	Est Cost	Existing Protection?
Bennett WMA	10130233	40	\$16,800	Yes
Bennett WMA	10229215	40	\$16,800	Yes
Bennett WMA	10535224	304	\$33,500	Yes
Bennett WMA	10535224	304	\$44,700	Yes
Budolfson WMA: East Unit	10738230	88	\$78,200	Yes
Carson 5-1 NPB	10635205	2	\$1,500	Yes
Great Bend 29-1 NPB	10536229	2	\$1,000	Yes
Great Bend 9-1 NPB	10536209	4	\$7,200	Yes
Great Bend 9-1 NPB	10536209	26	\$4,500	Yes
Stordon 21-1 NPB	10737221	6	\$5,800	Yes
Stordon 21-1 NPB	10737221	20	\$6,300	Yes
Stordon 4-B NPB	10737204	17	\$6,100	Yes
Talcot Lake WMA	10538219	129	\$119,000	Yes
Wolf Lake WMA: Cottonwood County Unit	10535231	194	\$167,600	Yes
Wolf Lake WMA: Cottonwood County Unit	10535231	1,000	\$6,700	Yes
Wolf Lake WMA: Cottonwood County Unit	10535231	1,000	\$6,700	Yes

Crow Wing

Name	TRDS	Acres	Est Cost	Existing Protection?
Poor Farm WMA	04431224	15	\$24,600	Yes

Dakota

Name	TRDS	Acres	Est Cost	Existing Protection?
Chimney Rock	11417231	4	\$10,400	Yes
Chimney Rock	11417231	5	\$10,700	Yes
Gores Pool #3 WMA	11416210	40	\$16,800	Yes

Dodge

Name	TRDS	Acres	Est Cost	Existing Protection?
Ann & Leo Donahue WMA	10117211	250	\$9,400	Yes
Faribault WMA	10516214	160	\$152,000	Yes
McMartin WMA	10717225	15	\$12,600	Yes
Naylor WMA: Main Unit	10717225	100	\$22,400	Yes
Pheasants Forever WMA	10717217	60	\$55,900	Yes
Pheasants Forever WMA	10717217	60	\$55,900	Yes

Douglas

Name	TRDS	Acres	Est Cost	Existing Protection?
Blakesley WMA	12343213	1,585	\$62,000	Yes
Blakesley WMA	12740226	10	\$13,400	Yes
Lund 21-1 NPB	13040221	2	\$14,800	Yes
Lund 2-1 NPB	13040202	2	\$14,800	Yes

Fillmore

Name	TRDS	Acres	Est Cost	Existing Protection?
Beaver Creek WMA	10112204	800	\$106,200	Yes
Cherry Grove WMA	10112203	78	\$6,400	Yes
Choice WMA	10208201	60	\$59,200	Yes
Choice WMA	10208211	50	\$176,600	Yes
Choice WMA	10208214	45	\$27,800	Yes
Dr. Johan C. Hvoslef WMA	10209226	12	\$18,400	Yes
Goethite WMA	10213223	7	\$12,900	Yes
Goethite WMA	10213223	27	\$24,000	Yes
Nosek WMA	10113224	20	\$52,500	Yes
Pin Oak Prairie	10412224	20	\$48,500	Yes
Rushford Complex	10408214	100	\$118,300	Yes
Upper Iowa River WMA	10113231	12	\$14,300	Yes

Freeborn

Name	TRDS	Acres	Est Cost	Existing Protection?
Wo Wacintanka WMA	10419216	11	\$23,900	Yes
Wo Wacintanka WMA	10419216	60	\$39,100	Yes

Goodhue

Name	TRDS	Acres	Est Cost	Existing Protection?
Cannon River Turtle Preserve	11316224	15	\$10,200	Yes
Cannon River Turtle Preserve	11316224	20	\$85,400	Yes
Gordon W. Yeager WMA: Nelson Unit	10515204	64	\$117,300	Yes
Gordon W. Yeager WMA: Nelson Unit	10515222	200	\$44,700	Yes
River Terrace Prairie	11217201	10	\$20,500	Yes
Spring Creek Prairie	11315234	32	\$132,600	Yes

Grant

Name	TRDS	Acres	Est Cost	Existing Protection?
Alberta WMA: South East Unit	12342220	65	\$24,000	Yes
Benson WMA	12342220	40	\$5,600	Yes
Blakesley WMA	12843233	5	\$13,400	Yes
Elk Lake 19-1 (Lien)	12841219	1	\$7,400	Yes
Elk Lake 19-1 (Lien)	12841219	5	\$11,700	Yes
Elk Lake 19-1 (Lien)	12841219	10	\$9,200	Yes
Olsen NPB	12841206	2	\$14,800	Yes
Woodke A & B NPB	12741232	1	\$7,400	Yes

Hennepin

Name	TRDS	Acres	Est Cost	Existing Protection?
Bradshaw Lake WMA	11321211	380	\$5,700	Yes
Wolsfeld Woods	11823227	23	\$21,100	Yes
Wood-Rill	11823236	18	\$20,900	Yes

Houston

Name	TRDS	Acres	Est Cost	Existing Protection?
Chisholm Valley WMA	10307204	10	\$6,700	Yes
Chisholm Valley WMA	10307204	10	\$30,200	Yes
Ferndale Ridge WMA	10407232	22	\$33,200	Yes
Ferndale Ridge WMA	10407232	63	\$223,500	Yes
Hokah Complex	10405234	100	\$100,300	Yes
Jefferson complex	10104219	170	\$164,100	Yes
Reno complex	10104202	100	\$64,300	Yes
Vinegar Ridge Complex	10407215	80	\$102,600	Yes
Vinegar Ridge State Forest	10407215	20	\$20,000	Yes
Wetbark Complex	10307211	50	\$64,100	Yes

Hubbard

Name	TRDS	Acres	Est Cost	Existing Protection?
Badoura	13932210	1	\$7,400	Yes

Jackson

Name	TRDS	Acres	Est Cost	Existing Protection?
Belmont 5-1 NPB	10335206	40	\$5,200	Yes
Des Moines Prairie SNA	10435219	49	\$8,000	Yes

Kandiyohi

Name	TRDS	Acres	Est Cost	Existing Protection?
Follies WMA	12234202	60	\$70,400	Yes
Regal Meadows WMA	12233206	82	\$101,300	Yes
Willmar WMA	12035236	29	\$11,200	Yes

Kittson

Name	TRDS	Acres	Est Cost	Existing Protection?
Beaches Lake WMA: Main South East Unit	15744212	500	\$82,700	Yes
Lake Bronson -all	16146225	1	\$7,400	Yes
Lake Bronson -all	16146225	20	\$18,000	Yes
Norway 1 (Becken)	16046201	1	\$17,600	Yes
Norway 1 (Becken)	16046201	40	\$16,100	Yes

Lac qui Parle

Name	TRDS	Acres	Est Cost	Existing Protection?
Camp Release 32 NPB	11741205	40	\$9,200	Yes
Odden NPB	11645216	5	\$6,000	Yes
Odden NPB	11645216	20	\$6,500	Yes
Yellow Bank Hills SNA	11846202	30	\$8,000	Yes

Lac Qui Parle

Name	TRDS	Acres	Est Cost	Existing Protection?
25th Anniversary WMA	11742204	110	\$60,300	Yes

Lincoln

Name	TRDS	Acres	Est Cost	Existing Protection?
Bosque WMA	11244236	26	\$134,100	Yes
Schindel WMA	10946222	25	\$8,400	Yes

Lyon

Name	TRDS	Acres	Est Cost	Existing Protection?
Area wide	11042231	200	\$178,800	Yes
Buetiful Acres	11141232	168	\$36,900	Yes
Buetiful Acres WMA	11141232	168	\$8,400	Yes
Custer 15-1 NPB	10941215	2	\$1,500	Yes
Custer 15 NPB	10941215	48	\$9,200	Yes
Gabriel Anderson WMA	11340206	10	\$5,600	Yes
Grandview WMA	11242218	128	\$33,500	Yes
Grandview WMA	11242218	128	\$33,500	Yes
Lyon/Lynd NPB	11142236	1	\$1,100	Yes
Lyons WMA	11042226	130	\$11,200	Yes
Rolling Hills WMA	11140206	19	\$6,400	Yes
Sodus WMA	10942201	31	\$7,300	Yes

Mahnomen

Name	TRDS	Acres	Est Cost	Existing Protection?
Popple Grove 36-1 (Revier)	14342236	20	\$13,600	Yes
Santee	14541206	1	\$7,400	Yes
Waubun WMA	14342234	340	\$1,194,900	Yes

Marshall

Name	TRDS	Acres	Est Cost	Existing Protection?
Marsh Grove 36-1 NPB	15645236	1	\$7,400	Yes

McLeod

Name	TRDS	Acres	Est Cost	Existing Protection?
Halva Marsh WMA	11628219	56	\$50,300	Yes

Meeker

Name	TRDS	Acres	Est Cost	Existing Protection?
Butternut WMA: North Unit	11932219	15	\$22,400	Yes
Crow River WMA	11929201	200	\$27,900	Yes
Daniel Shay WMA	11826201	1,728	\$2,200	Yes

Mille Lacs

Name	TRDS	Acres	Est Cost	Existing Protection?
Kunkel WMA	03627235	330	\$22,100	Yes
Mille Lacs WMA	04125229	100	\$127,400	Yes

Morrison

Name	TRDS	Acres	Est Cost	Existing Protection?
Aurzada Prairie WMA	12735204	892	\$2,300	Yes
Aurzada Prairie WMA	12735204	892	\$2,300	Yes
Crane Meadows WMA	03931203	5	\$7,800	Yes
Little Elk WMA	13031219	45	\$38,000	Yes

Mower

Name	TRDS	Acres	Est Cost	Existing Protection?
Aurora WMA	10114205	1,000	\$70,400	Yes
Wild Indigo SNA	10317212	20	\$61,000	Yes

Murray

Name	TRDS	Acres	Est Cost	Existing Protection?
Budolfson WMA and others	10739225	1,806	\$36,900	Yes
Holly 2-1 NPB	10839202	3	\$1,000	Yes
Plum Creek WMA	10839215	63	\$56,300	Yes

Norman

Name	TRDS	Acres	Est Cost	Existing Protection?
Prairie Smoke Dunes	14644217	1	\$7,400	Yes
Sandpiper	14445233	1	\$7,400	Yes

Olmsted

Name	TRDS	Acres	Est Cost	Existing Protection?
Gordon W. Yeager WMA: Nelson Unit	10515204	65	\$83,800	Yes
Gordon W. Yeager WMA: Nelson Unit	10515204	170	\$87,300	Yes
Oronoco Prairie	10814222	2	\$5,100	Yes
Oronoco Prairie	10814222	5	\$8,700	Yes

Otter Tail

Name	TRDS	Acres	Est Cost	Existing Protection?
Nidaros 21-1 NPB	13239221	2	\$14,800	Yes
Ottertail Prairie	13144217	1	\$7,400	Yes
Wallace NPB	13140235	2	\$14,800	Yes

Pipestone

Name	TRDS	Acres	Est Cost	Existing Protection?
Prairie Co teau SNA	10844232	30	\$8,000	Yes

Polk

Name	TRDS	Acres	Est Cost	Existing Protection?
Agassiz Dunes Trust Fund	14844230	1	\$7,400	Yes
Agassiz Dunes Trust Fund	14844230	20	\$13,600	Yes
Chicog WMA	14745216	440	\$82,700	Yes
Crookston	14944213	30	\$26,900	Yes
Foxboro	14845203	2	\$14,800	Yes
Foxboro	14845203	20	\$24,100	Yes
Garfield 30-1	14744230	5	\$19,000	Yes
Garfield 30-1	14744230	40	\$14,600	Yes
Godfrey 7-1	14844207	1	\$7,400	Yes
Godfrey 7-1	14844207	75	\$16,300	Yes
Gully Fen	15039223	1	\$7,400	Yes
Maple Meadows WMA	14844215	303	\$44,700	Yes

Pope

Name	TRDS	Acres	Est Cost	Existing Protection?
Blue Mounds 10-1 NPB	12439210	2	\$14,800	Yes
Eldorado WMA	12337234	160	\$6,900	Yes
John A. Scharf Memorial WMA	12337234	12	\$7,900	Yes
Lake Johanna 31-2 NPB	12335231	2	\$14,800	Yes
Langhei Prairie	12339232	1	\$7,400	Yes
Lowry WMA: North East Unit	12639223	20	\$6,100	Yes
Minnewaska 1-1 (Wittwer)	12538201	2	\$14,800	Yes
Minnewaska 1-1 (Wittwer)	12538201	40	\$14,600	Yes
Minnewaska 1-1 (Wittwer)	12538201	40	\$25,100	Yes
Selix NPB	12439209	2	\$14,800	Yes

Red Lake

Name	TRDS	Acres	Est Cost	Existing Protection?
Lake Pleasant 22-1 NPB	15044222	2	\$14,800	Yes

Redwood

Name	TRDS	Acres	Est Cost	Existing Protection?
Cedar Rock SNA	11336203	22	\$61,600	Yes
Cedar Rock WMA: South East Unit	11336203	50	\$89,400	Yes
Delhi 14-1 NPB	11336214	30	\$61,700	Yes
Faxvog WMA	11238221	30	\$19,000	Yes
Faxvog WMA	11238221	31	\$16,800	Yes
Lamberton 15-1 NPB	10937215	4	\$1,000	Yes
Phyllis Voosen WMA	11238219	90	\$83,800	Yes
Sanborn AMA	10936227	20	\$10,000	Yes
Sheridan WMA: South Unit	11237213	20	\$11,200	Yes
Tiger Lake WMA: Dahlberg Unit	11335228	50	\$26,800	Yes
Waukon Rim WMA	11335219	45	\$27,900	Yes

Renville

Name	TRDS	Acres	Est Cost	Existing Protection?
Morton Outcrops SNA	11334231	10	\$21,000	Yes
Whispering Ridge WMA	11436229	50	\$111,800	Yes

Rice

Name	TRDS	Acres	Est Cost	Existing Protection?
Circle Lake WMA	11121209	100	\$85,800	Yes

Roseau

Name	TRDS	Acres	Est Cost	Existing Protection?
Roseau River WMA	16343217	252	\$21,200	Yes
Two Rivers Aspen Parklands	16044217	1	\$7,400	Yes
Two Rivers Aspen Parklands	16044217	130	\$43,400	Yes

Scott

Name	TRDS	Acres	Est Cost	Existing Protection?
Bradshaw Lake WMA	11322215	5	\$2,200	Yes
Bradshaw Lake WMA	11322215	7	\$3,400	Yes
Bradshaw Lake WMA	11322215	14	\$6,300	Yes
Bradshaw Lake WMA	11322215	14	\$6,300	Yes
Bradshaw Lake WMA	11322215	18	\$5,600	Yes
Bradshaw Lake WMA	11322215	25	\$8,900	Yes
Bradshaw Lake WMA	11322215	40	\$20,600	Yes
Clark Lake WMA	11323219	20	\$20,250	Yes
Clark Lake WMA	11325221	7	\$3,100	Yes
Marsh WMA	11323219	12	\$5,800	Yes
Michel Marsh WMA	11324227	15	\$6,700	Yes
Ney WMA	11325230	10	\$4,500	Yes
Ney WMA	11325230	20	\$8,900	Yes
Ney WMA	11325230	21	\$8,900	Yes
PF - Module #1 WMA	11325234	5	\$2,200	Yes
Pheasants Forever #3 WMA	11324221	9	\$10,600	Yes
Raven WMA	11324232	20	\$8,900	Yes
Savage Fen	11521217	10	\$24,700	Yes
Savage Fen	11521217	35	\$146,700	Yes

Sherburne

Name	TRDS	Acres	Est Cost	Existing Protection?
Uncas Dunes	03427221	10	\$4,700	Yes

Stearns

Name	TRDS	Acres	Est Cost	Existing Protection?
Mohs WMA	12535209	50	\$55,900	Yes

Stearns

Name	TRDS	Acres	Est Cost	Existing Protection?
Crow River WMA	12332227	300	\$7,800	Yes
Crow River WMA	12334228	75	\$19,000	Yes
Edward Raymond Mohs WMA	12335209	50	\$8,400	Yes
Partners WMA	12024217	100	\$55,900	Yes
Sedan Brook Prairie	12435217	17	\$40,300	Yes

Steele

Name	TRDS	Acres	Est Cost	Existing Protection?
Somerset WMA	10720229	80	\$89,400	Yes
Somerset WMA	10720229	80	\$89,400	Yes

Stevens

Name	TRDS	Acres	Est Cost	Existing Protection?
Verlyn Marth	12642206	1	\$7,400	Yes

Swift

Name	TRDS	Acres	Est Cost	Existing Protection?
Fairfield 31-1 NPB	12242231	6	\$1,800	Yes

Todd

Name	TRDS	Acres	Est Cost	Existing Protection?
Hartford WMA	13033224	22	\$56,400	Yes
Ireland WMA	12832227	20	\$33,500	Yes
Kobliska WMA: Main Unit	13132204	41	\$124,000	Yes
Kobliska WMA: Main Unit	13132204	73	\$124,000	Yes
Ostendorff WMA	12732204	16	\$34,600	Yes
Owen-Hinz WMA	12835212	35	\$125,200	Yes
Santer WMA	12835202	51	\$154,200	Yes
Santer WMA	12835202	52	\$89,400	Yes

Traverse

Name	TRDS	Acres	Est Cost	Existing Protection?
Fibranz NPB	12647206	2	\$14,800	Yes
Walls 18-1 NPB	12647218	2	\$14,800	Yes
Walls 7-1 NPB	12647207	2	\$14,800	Yes
Walls 7-2 NPB	12647207	2	\$14,800	Yes
Walls 8-1 (Drinkwitz)	12647208	2	\$14,800	Yes
Walls 8-1 (Drinkwitz)	12647208	30	\$10,200	Yes
Windsor 13-1 NPB	12648213	2	\$14,800	Yes

Wabasha

Name	TRDS	Acres	Est Cost	Existing Protection?
Kellogg Weaver Dunes	10909206	100	\$29,900	Yes
Kellogg Weaver Dunes	10909206	125	\$146,700	Yes
McCarthy Lake WMA	11010235	4	\$3,700	Yes

Washington

Name	TRDS	Acres	Est Cost	Existing Protection?
Bayport WMA	02920222	25	\$8,900	Yes
Bayport WMA	02920222	27	\$25,100	Yes
St. Croix Savanna	02920215	7	\$17,300	Yes

Wilkin

Name	TRDS	Acres	Est Cost	Existing Protection?
Atherton 5-1 NPB	13646205	1	\$7,400	Yes
Atherton 5-1 NPB	13646205	1	\$10,500	Yes
Bilden NPB	13545215	1	\$7,400	Yes
Rogers NPB	13746227	1	\$7,400	Yes
Tanberg 20-1 NPB	13545220	2	\$14,800	Yes
Tanberg 20-1 NPB	13545220	75	\$16,300	Yes
Tanberg 21-1 (Beckman)	13545221	1	\$7,400	Yes
Tanberg 21-1 (Beckman)	13545221	30	\$14,100	Yes
Tanberg 29-1 NPB	13545229	2	\$14,800	Yes
Tanberg 29-2 NPB	13545229	2	\$14,800	Yes
Tanberg 29-2 NPB	13545229	75	\$16,300	Yes
Tanberg 33-1 (Craig Ouse)	13545233	5	\$20,800	Yes
Tanberg 33-1 (Craig Ouse)	13545233	10	\$33,200	Yes
Tanberg 33-1 (Craig Ouse)	13545233	60	\$15,600	Yes

Winona

Name	TRDS	Acres	Est Cost	Existing Protection?
Whitewater WMA: Main Branch Unit	10809205	22	\$34,600	Yes
Whitewater WMA: Main Branch Unit	10810211	600	\$24,600	Yes
Whitewater WMA: Main Branch Unit	10810226	600	\$22,400	Yes

Wright

Name	TRDS	Acres	Est Cost	Existing Protection?
Pelican Lake WMA	12024215	80	\$29,100	Yes

Yellow Medicine

Name	TRDS	Acres	Est Cost	Existing Protection?
Antelope Valley SNA	11444214	30	\$8,000	Yes
Antelope Valley SNA	11444214	35	\$8,200	Yes
Antelope Valley SNA	11444214	40	\$18,000	Yes
Bonanza Prairie SNA	12348220	40	\$9,500	Yes
MN Falls 10-1 NPB	11539210	5	\$1,000	Yes
MN Falls 3-1 NPB	11539203	10	\$2,100	Yes
Mound Spring Prairie SNA	11546217	10	\$22,000	Yes
Mound Spring Prairie SNA	11546217	50	\$7,500	Yes
Mound Spring Prairie SNA	11546218	70	\$8,500	Yes
Swede Forest SNA	11438213	17	\$53,300	Yes

Section 2 - Protect Parcel List

No parcels with an activity type protect.

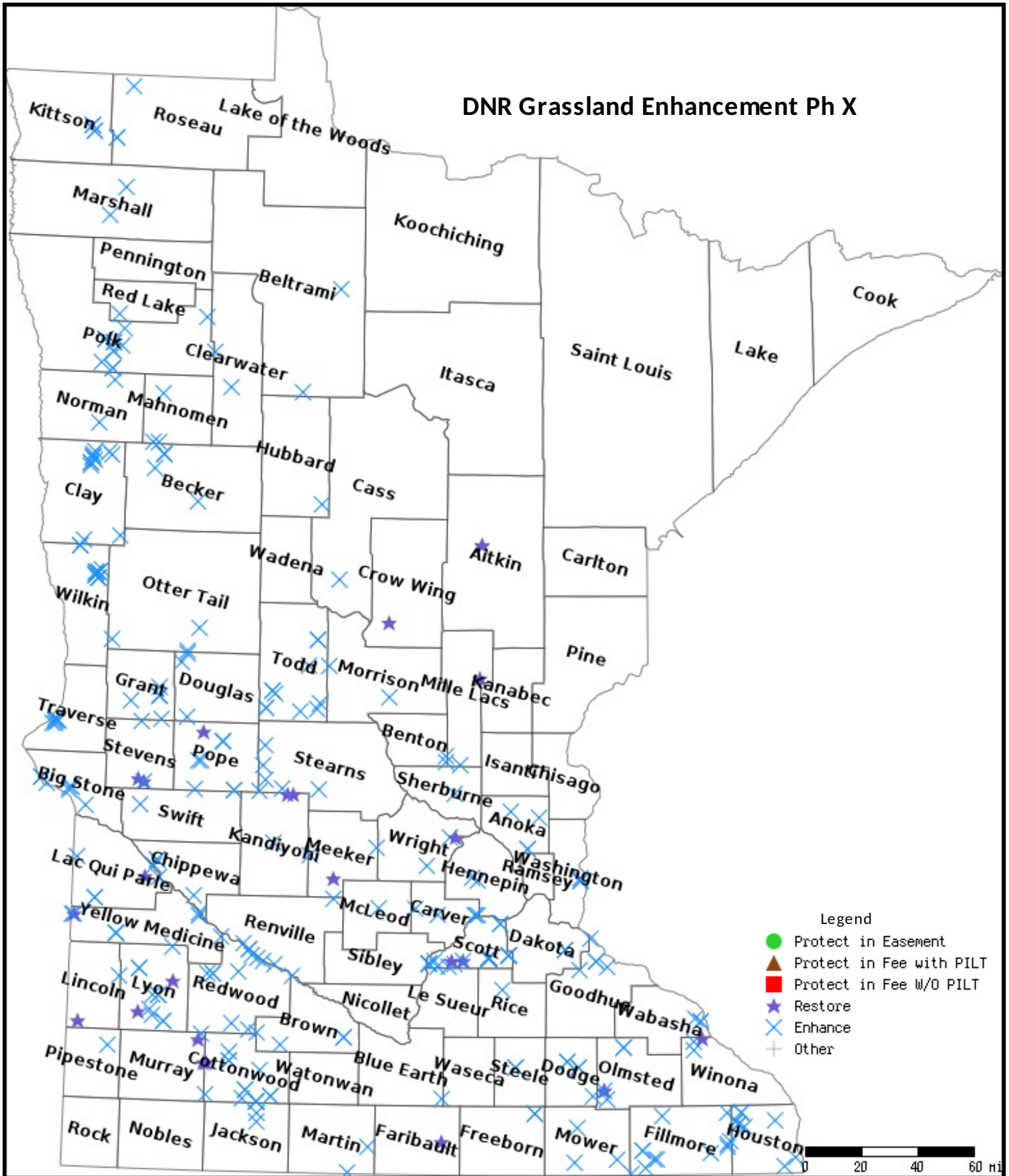
Section 2a - Protect Parcel with Bldgs

No parcels with an activity type protect and has buildings.

Section 3 - Other Parcel Activity

No parcels with an other activity type.

Parcel Map



Data Generated From Parcel List

DNR Grasslands Phase X



WHAT
Enhancement of Permanently Protected Grasslands
Focus on Prairie Plan Core Areas and
Pheasant Action Plan Habitat Complexes

WHY
Landscape level approach to conservation
Game species, songbirds, pollinators, SGCN, T&E species
Grasslands, Clean Water, and Wildlife are all connected

HOW
Prescribed Fire, Tree Removal, Invasive Species Control
Diverse, Local Ecotype Seed Mixes

WHERE
DNR WMAs, SNAs, and Native Prairie Bank
USFWS Refuges and WPAs



Enhance and restore 100,000 acres
\$17,068,200





Local contractors help agency staff collect large volumes of local ecotype seed from the prairie.



Roving crews and their specialized equipment have dramatically increased our capacity for habitat enhancement.



Snowseeding the mix of dozens of grasses and wildflower seed.



When trees get too large, they must be removed mechanically by contractors.



The FINAL PRODUCT, a diverse stand of local ecotype plants providing nesting cover for wildlife as well as nectar and pollen for pollinators.

These efforts help create jobs through small businesses in rural Minnesota.