

Lessard-Sams Outdoor Heritage Council

Fiscal Year 2021 / ML 2020 Request for Funding



Date: May 30, 2019

Program or Project Title: DNR Grassland Phase XII

Funds Requested: \$10,918,000

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County Locations: Aitkin, Becker, Beltrami, Benton, Big Stone, Blue Earth, Brown, Chippewa, Clay, Cottonwood, Douglas, Faribault, Fillmore, Freeborn, Grant, Houston, Jackson, Kanabec, Kandiyohi, Kittson, Lac qui Parle, Lincoln, Lyon, Mahnomen, Marshall, Martin, Meeker, Morrison, Mower, Murray, Norman, Olmsted, Otter Tail, Polk, Pope, Red Lake, Redwood, Renville, Rice, Roseau, Scott, Stevens, Swift, Todd, Traverse, Wabasha, Washington, Wilkin, Winona, and Yellow Medicine.

Eco 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:

- Prairie

Abstract:

Grasslands continue to be the most threatened habitat in the state. This programmatic request will build on the DNR's history of enhancing and restoring grasslands, embedded wetlands, and savannas to increase wildlife populations. The Prairie Plan, Pheasant Plan, and Wildlife Action Plan will guide our efforts and ensure we are operating in a strategic and targeted manner. This proposal will enhance and restore grasslands on parcels that are permanently protected and most open to public hunting. These include DNR WMAs, SNAs, AMAs, Native Prairie Bank (NPB) easements, State Forests, as well as federal WPAs and NWRs.

Design and scope of work:

In many farmland counties less than five percent of the area is in public wildlife lands, often much less. Since 2007, Minnesota has lost nearly a million acres of CRP. Last fall, another 203,000 acres expired from the program. Under the new Farm Bill, it's unclear how many of those lost habitat acres the state will recover.

Wildlife and pollinator populations are a fraction of what they were even a decade ago. Water quality, especially nitrate contamination, is a human health and wildlife issue. Restoring and enhancing grasslands are one of the most effective ways to improve all of these issues. Because of the losses of grassland and wetland habitat across western Minnesota both historically and in recent years, it is that much more important that the public grasslands in Minnesota 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 lose diversity

and productivity. 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.

Contract work for prescribed fire, woody species removal, invasive species control, grassland restoration, and other enhancement efforts. WMA Habitat Enhancement and restoration (18,600 acres) over five years – \$4,895,000

Continuing funding for DNR Region 3 (Southeast) Rover Crew (12,500 acres) over five years - \$3,374,000

This request will restore and enhance native prairies on SNAs and Native Prairie Bank (NPB) easements as described above for WMAs. SNA/NPB Enhancement and restoration (3,000 acres) over five years– \$2,275,000

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

- H1 Protect priority land habitats
- H5 Restore land, wetlands and wetland-associated watersheds

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:

The Prairie Plan, Pheasant Plan, and Duck Plan identify target acreages for enhancement and help guide where on the landscape those activities should occur. 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 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 return in habitat quality and wildlife populations for the investment. Conservation partners in the prairie region continue to apply existing monitoring protocols such as the Grassland Monitoring Team (GMT) and work to develop statistically robust new monitoring protocols.

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 conducted under this proposal will be done on land under permanent conservation protection. However, by the very nature of habitat management, these enhancements will not be permanent. Grasslands rely on periodic disturbances. To maintain

the health and diversity of grasslands, they need burning, grazing, or other ecological disturbances, every 4 to 6 years.

With our restorations, we are leaving a lasting legacy. In recent years the use of 40-80 species seed mixes and local ecotype seed is dramatically improving the quality of our restorations for wildlife and pollinators. 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 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 Prairie Plan identifies specific corridors and complexes that connect larger core areas. 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. We will not restrict ourselves to these focal areas. There are critical habitats outside these areas. However, we will use these Plans to focus our efforts in areas where they can have the greatest wildlife benefits. The Wildlife Action Plan is currently being integrated with the Prairie Plan to help us determine where to focus our monitoring efforts. The first Conservation Focus Area is in the prairie region of the state. Additionally, conservation partners (DNR, USFWS, TNC, and Audubon) recently received 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. Another federal monitoring-focused grant was submitted in May 2018. An LCCMR monitoring proposal was also submitted in 2018. The DNR and our conservation partners take these funds, and the monitoring of outputs and outcomes, seriously.

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 and grassland wildlife continue to be the most threatened habitat and populations, both in Minnesota and across the Midwest.

According to the 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. The Dakota skipper was recently federally listed as threatened and the Poweshiek's skipperling as endangered. Minnesota is a key state for monarch butterflies and they need the pollen and nectar found in grasslands to complete their life cycle.

With few exceptions, grasslands for game species, nongame species, SGCN, and T&E species are similar. They all need habitat composed of a diversity of native grasses and forbs. Enhancements for one species will almost always benefit dozens of other species in the habitat. Many species of invertebrates and pollinators need a diversity and abundance of flowering plants. Many birds need grassland free of trees. All species need clean water free of sediment and chemical pollutants. While the work proposed here will benefit game species, non-game species, SGCN, and T&E, it will also go beyond these objectives to provide numerous ecosystem services such as water filtration, floodwater retention and reduced flood damage, and create pollinator habitat to help sustain segments of the agricultural economy.

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 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 *Migratory game and non-game birds will be some of the primary beneficiaries of this work. We hope to continue to strengthen partnerships 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:

We select projects with these funds that strategically enhance priority habitats. We will continue management of these sites with agency staff DNR and USFWS. 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 coordinating to maximize our efforts with funding sources such as the North American Wetland Conservation Act (NAWCA).

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

Year	Source of Funds	Step 1	Step 2	Step 3
2023	Those listed above and OHF	Monitor subset of projects	Document results	Determine capacity for traditional funds to meet results
2024 and beyond	Those listed above and OHF	Continue monitoring	adapt results to future projects	seek funding for continued monitoring

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

Traditionally, grasslands and wetlands have been seen primarily as wildlife habitat. We have Plans that tell us how to best do this work on the landscape. In recent years, and just earlier this year, researchers in Minnesota and surrounding states are showing how strategic landscape planning for grassland/wetland work can improve water quality for wildlife and people. Water quality issues continue to be a economic and health problem in rural Minnesota. Combining wildlife and water plans shows how strategic planning can benefit wildlife and people at the same time.

Does this program include leverage in funds:

No

Relationship to other funds:

- Not Listed

Describe the relationship of the funds:

Not Listed

Per MS 97A.056, Subd. 24, Any state agency or organization requesting a direct appropriation from the OHF must inform the LSOHC at the time of the request for funding is made, whether the request is supplanting or is a substitution for any previous funding that was not from a legacy fund and was used for the same purpose:

These funds are for additional enhance/restoration work beyond what the DNR is already conducting. These funds are not supplanting or substituting any funds.

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

Appropriation Year	Source	Amount
2018	Game and Fish (Wildlife Operations)	24,129,000
2018	Dedicated Accounts (Duck Stamp, Pheasant Stamp, etc)	4,754,000
2018	Heritage Enhancement Acct	3,850,000

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 restoration and enhancement 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, Permanently Protected Conservation Easements, 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 may be an instance of very limited rowcrop planting as part of a restoration process. But this would only be for a very short time before the site is planted to native grasses and forbs. Some of the crops may be G MO, but none of the crops should be treated with neonicotinoid seed coats and any farming will follow standard chemical use practices as outlined in DNR Operational Orders.

Accomplishment Timeline

Activity	Approximate Date Completed
WMA Enhancement / Restoration - contracts	6/30/2025
SNA / NPB Enhancements	6/30/2025
Roving Crew Enhancement / Restorations	6/30/2025

Budget Spreadsheet

Total Amount of Request: \$10,918,000

Budget and Cash Leverage

BudgetName	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$2,944,700	\$0		\$2,944,700
Contracts	\$5,156,400	\$0		\$5,156,400
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	\$1,270,900	\$0		\$1,270,900
Professional Services	\$0	\$0		\$0
Direct Support Services	\$373,700	\$0		\$373,700
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$3,900	\$0		\$3,900
Supplies/Materials	\$1,168,400	\$0		\$1,168,400
DNR IDP	\$0	\$0		\$0
Total	\$10,918,000	\$0	-	\$10,918,000

Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Region 3 Roving Crew (6 positions)	6.00	5.00	\$2,239,000	\$0		\$2,239,000
SNA Contract and Project Mtg	0.04	4.00	\$15,000	\$0		\$15,000
SNA-NPB Specialists and Technicians	1.82	4.00	\$510,700	\$0		\$510,700
Laborers and Seasonal Crew	1.29	4.00	\$180,000	\$0		\$180,000
Total	9.15	17.00	\$2,944,700	\$0	-	\$2,944,700

Amount of Request: \$10,918,000

Amount of Leverage: \$0

Leverage as a percent of the Request: 0.00%

DSS + Personnel: \$3,318,400

As a % of the total request: 30.39%

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.

What is included in the contracts line?

This line includes contracts for restoration and enhancement work that the DNR or Roving Crews don't have the specialized equipment or staff to conduct. Contracts increase our capacity to impact acres beyond what staff alone are capable of.

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:

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

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 this programmatic request consists of a number of smaller projects, we can scale our number of projects and resulting acres up or down. Administrative costs would be refigured to address a different budget.

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	881	0	0	881
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	34,224	0	0	34,224
Total	0	35,105	0	0	35,105

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	2,500
Total	2,500

Table 2. Total Requested Funding by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$1,128,500	\$0	\$0	\$1,128,500
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	\$9,789,500	\$0	\$0	\$9,789,500
Total	\$0	\$10,918,000	\$0	\$0	\$10,918,000

Table 3. Acres within each Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore	75	85	30	421	270	881
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	260	5,754	4,798	23,132	280	34,224
Total	335	5,839	4,828	23,553	550	35,105

Table 4. Total Requested Funding within each Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore	\$270,100	\$35,500	\$45,000	\$453,600	\$324,300	\$1,128,500
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	\$85,500	\$1,650,600	\$2,365,400	\$5,605,600	\$82,400	\$9,789,500
Total	\$355,600	\$1,686,100	\$2,410,400	\$6,059,200	\$406,700	\$10,918,000

Table 5. Average Cost per Acre by Resource Type

Type	Wetlands	Prairies	Forest	Habitats
Restore	\$0	\$1,281	\$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	\$286	\$0	\$0

Table 6. Average Cost per Acre by Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest
Restore	\$3,601	\$418	\$1,500	\$1,077	\$1,201
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	\$329	\$287	\$493	\$242	\$294

Automatic system calculation / not entered by managers

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:

Parcels are identified by Area Wildlife Managers and approved by Regional Managers. Priorities are set by the Plans identified earlier in this proposal.

Section 1 - Restore / Enhance Parcel List

Aitkin

Name	TRDS	Acres	Est Cost	Existing Protection?
Gun Lake WMA	04825204	270	\$324,300	Yes

Becker

Name	TRDS	Acres	Est Cost	Existing Protection?
Agassiz-Olson WMA	14242205	300	\$100,000	Yes

Beltrami

Name	TRDS	Acres	Est Cost	Existing Protection?
Saw-whet WMA	15537209	35	\$14,000	Yes

Benton

Name	TRDS	Acres	Est Cost	Existing Protection?
Burleene WMA	12733209	400	\$50,000	Yes
Ereaux WMA	13132224	200	\$25,000	Yes
Sartell WMA	03831215	20	\$31,800	Yes

Big Stone

Name	TRDS	Acres	Est Cost	Existing Protection?
Akron 31-2 NPB	12144231	20	\$10,000	yes
Big Stone WMA	11946225	418	\$45,000	Yes
Bonanza Prairie SNA	12348220	7	\$9,100	Yes
Bonanza Prairie SNA	12348220	25	\$9,000	Yes
Clinton Prairie SNA	12347216	45	\$7,500	Yes
Foster 34-1 NPB	12348234	25	\$11,000	yes
Johnson NPB	12247212	2	\$3,500	yes
Lac qui Parle WMA	12043231	255	\$248,000	Yes
Lac qui Parle WMA	12044207	2,300	\$10,500	Yes
Lac qui Parle WMA	12044214	84	\$84,000	Yes

Blue Earth

Name	TRDS	Acres	Est Cost	Existing Protection?
Judson 3-1 NPB	10828203	1	\$3,300	yes
Judson 4-1 NPB	10828204	2	\$10,300	yes

Brown

Name	TRDS	Acres	Est Cost	Existing Protection?
Cottonwood River Prairie SNA	10935231	35	\$5,500	Yes
Eden North 19-1 NPB	11233219	6	\$7,000	yes
Meine NPB	10935233	15	\$5,400	yes

Chippewa

Name	TRDS	Acres	Est Cost	Existing Protection?
Benderberg WMA	11840205	1,872	\$141,000	Yes
Boike WMA	11733221	955	\$66,600	Yes
Lac qui Parle WMA	11841208	25	\$18,000	Yes
Lac qui Parle WMA	11942229	370	\$150,000	Yes
Lac qui Parle WMA	11942234	5	\$15,000	Yes
Lac qui Parle WMA	11942236	32	\$32,000	Yes
Lac qui Parle WMA	11942236	70	\$28,000	Yes

Clay

Name	TRDS	Acres	Est Cost	Existing Protection?
Blanket Flower SNA	13744214	5	\$21,000	Yes
Blue Mounds 10-1 NPB	12439210	73	\$12,900	Yes
Felton Prairie SNA-Assinaboia Unit	14245220	115	\$14,300	Yes
Felton Prairie SNA-Bicentennial Units	14145205	50	\$12,000	Yes
Felton Prairie SNA-Dakota Skipper & County Prairie Units	14245231	70	\$12,900	Yes
Felton Prairie SNA-Shrike Unit	14245230	40	\$12,000	Yes
Flowing 12-1 NPB	14146212	1	\$7,100	Yes
Flowing Prairie WMA	14146224	160	\$30,000	Yes
Strand N & S NPB	14244219	70	\$12,900	Yes
Ulen 29-1 NPB	14244229	30	\$11,900	Yes
Ulen 29-1 NPB	14244229	30	\$12,000	Yes

Cottonwood

Name	TRDS	Acres	Est Cost	Existing Protection?
Bennett WMA	10129206	1,737	\$110,400	Yes
Grunflur WMA	10836202	152	\$40,000	Yes
Lac qui Parle WMA	10538219	250	\$300,000	Yes
Mickelson NPB	10536227	20	\$5,000	Yes
Rock Ridge Prairie SNA	10735205	20	\$2,500	Yes
Storden 21 NPB	10737221	6	\$23,800	Yes
Storden 21 NPB	10737221	20	\$6,500	Yes
Storden 4B NPB	10737204	10	\$29,000	Yes
Talcot Lake WMA	10538219	129	\$206,500	Yes

Douglas

Name	TRDS	Acres	Est Cost	Existing Protection?
Lund 21-1 NPB	13040221	20	\$12,000	Yes
Lund 2-1 NPB	13040202	75	\$12,900	Yes

Faribault

Name	TRDS	Acres	Est Cost	Existing Protection?
Chadderdon WMA	10224211	790	\$20,000	Yes

Fillmore

Name	TRDS	Acres	Est Cost	Existing Protection?
Choice WMA	10208201	60	\$53,000	Yes
Choice WMA	10208203	18	\$26,000	Yes
Rushford Complex	10408214	40	\$75,400	Yes

Freeborn

Name	TRDS	Acres	Est Cost	Existing Protection?
Boyd Sartell WMA	10114205	1,500	\$250,000	Yes
Wo Wacintanka WMA	10419216	30	\$20,000	Yes

Grant

Name	TRDS	Acres	Est Cost	Existing Protection?
Elk Lake 19-1	12841219	2	\$7,100	Yes
Helsene WMA	12843228	161	\$6,800	Yes
Olsen NPB	12841206	30	\$12,000	Yes
Pelican Lake -27-1	13041227	5	\$21,000	in the works
Pelican Lake -27-1	13041227	40	\$12,000	in the works
Woodke A & B NPB	12741232	40	\$12,000	Yes

Houston

Name	TRDS	Acres	Est Cost	Existing Protection?
Hokah Complex	10405234	70	\$104,900	yes
Jefferson Complex	10104219	90	\$184,400	yes
Reno Complex	10104202	30	\$60,100	yes
Vinegar Ridge Complex	10407215	160	\$193,500	yes
Wetbark Complex	10307211	80	\$145,600	yes

Jackson

Name	TRDS	Acres	Est Cost	Existing Protection?
Belmont 6 NPB	10335206	3	\$8,000	yes
Caraway WMA	10136215	77	\$100,000	Yes
Christiana 31-1 NPB	10435231	30	\$5,000	yes
Des Moines Prairie SNA	10435219	45	\$6,500	Yes
Petersburg 26-1 NPB	10134226	13	\$8,000	yes
Petersburg 27-1 NPB	10134227	1	\$3,300	yes
Sangl WMA	10136221	324	\$25,000	Yes
Toe WMA	10336236	310	\$15,000	Yes

Kanabec

Name	TRDS	Acres	Est Cost	Existing Protection?
Kroschel WMA	04222228	80	\$57,500	Yes

Kandiyohi

Name	TRDS	Acres	Est Cost	Existing Protection?
Burbank WMA	12234226	42	\$130,000	Yes
Norway Lakes 5-1 NPB	12236205	40	\$10,600	yes
Oleander WMA	12236216	47	\$66,000	Yes
Ringo-Nest WMA	12134230	31	\$88,000	Yes

Kittson

Name	TRDS	Acres	Est Cost	Existing Protection?
Lake Bronson Parkland SNA	16146225	20	\$9,500	Yes
Lake Bronson Parkland SNA	16146225	80	\$12,900	Yes
Norway 1-1	16046201	1	\$7,100	Yes
Norway 1-1	16046201	40	\$12,000	Yes

Lac qui Parle

Name	TRDS	Acres	Est Cost	Existing Protection?
Hantho 25-1 NPB	11943225	20	\$10,000	yes
Lac qui Parle 36-1 NPB	11842236	50	\$10,700	yes

Lincoln

Name	TRDS	Acres	Est Cost	Existing Protection?
Bosque WMA	11244236	40	\$30,300	Yes
Chain-O-Slo ughs WMA	11145216	39	\$29,300	Yes
Jacobson WMA	10942224	87	\$69,600	Yes
Prairie Dell WMA	11345216	38	\$15,000	Yes
Sio uxLo okout WMA	11045231	80	\$24,000	Yes

Lyon

Name	TRDS	Acres	Est Cost	Existing Protection?
Custer 15-1 NPB	10941215	2	\$4,000	Yes
Gabriel Anderson WMA	11340206	10	\$7,500	Yes

Mahnomen

Name	TRDS	Acres	Est Cost	Existing Protection?
Santee Prairie SNA	14541206	20	\$11,900	Yes

Marshall

Name	TRDS	Acres	Est Cost	Existing Protection?
Higinbo tham WMA	15244204	150	\$20,500	Yes
Marsh Grove 36-1 NPB	15645236	75	\$12,900	Yes
Marsh Grove 36-1 NPB	15645236	80	\$22,900	Yes
Viking 4	15445206	50	\$21,500	Yes

Martin

Name	TRDS	Acres	Est Cost	Existing Protection?
Seymour Lake WMA	10332220	76	\$3,000	Yes

Meeker

Name	TRDS	Acres	Est Cost	Existing Protection?
Kingston WMA	12129228	61	\$64,500	Yes
Kingston WMA	12129228	185	\$13,550	Yes

Morrison

Name	TRDS	Acres	Est Cost	Existing Protection?
Rice Area Sportsmens Club WMA	03931213	7	\$16,100	Yes
Sponsa WMA	12831231	12	\$31,700	Yes

Mower

Name	TRDS	Acres	Est Cost	Existing Protection?
Wild Indigo SNA	10317212	20	\$58,000	Yes

Murray

Name	TRDS	Acres	Est Cost	Existing Protection?
Carney NPB	10643232	68	\$8,000	Yes
Dovray 7-1 NPB	10739207	30	\$7,000	Yes
Plum Creek WMA	10839215	280	\$143,750	Yes

Norman

Name	TRDS	Acres	Est Cost	Existing Protection?
Prairie Smo ke Dunes SNA	14644217	20	\$14,300	Yes
Prairie Smo ke Dunes SNA	14644217	120	\$12,900	Yes
Sandpiper Prairie SNA	14445233	100	\$12,900	Yes

Olmsted

Name	TRDS	Acres	Est Cost	Existing Protection?
Whitewater WMA	10610201	50	\$10,000	Yes
Whitewater WMA	10610201	1,000	\$180,000	Yes
Whitewater WMA	10710236	100	\$281,000	Yes

Otter Tail

Name	TRDS	Acres	Est Cost	Existing Protection?
Nidaros 21-1 NPB	13239221	40	\$12,000	Yes
Otter Tail Prairie SNA	13144217	5	\$11,400	Yes
Otter Tail Prairie SNA	13144217	75	\$12,900	Yes
Wallace NPB	13140235	70	\$12,900	Yes

Polk

Name	TRDS	Acres	Est Cost	Existing Protection?
Agassiz Dunes SNA	14844230	40	\$12,900	Yes
Chicog WMA	14740233	440	\$54,000	Yes
Chicog WMA	14844215	400	\$54,000	Yes
Garfield 30-1	14744230	75	\$12,900	Yes
Gentilly 27-1	15045227	30	\$12,000	Yes
Godfrey 7-1	14844207	40	\$12,000	Yes
Gully Fen SNA	15039223	5	\$21,000	Yes
Pembina Trail SNA-Crookston Prairie Unit	14944213	100	\$12,900	Yes
Pembina Trail SNA-Foxboro Unit	14845203	25	\$9,600	Yes
Pembina Trail SNA-Foxboro Unit	14845203	80	\$12,900	Yes

Pope

Name	TRDS	Acres	Est Cost	Existing Protection?
Fibranz NPB	12647206	50	\$12,000	Yes
Lake Johanna 31-2 NPB	12335231	5	\$21,000	Yes
Langhei Prairie SNA	12339232	20	\$12,000	Yes
Minnewaska 1-1	12538201	5	\$21,000	Yes
Selix NPB	12439209	1	\$7,100	Yes

Red Lake

Name	TRDS	Acres	Est Cost	Existing Protection?
Lake Pleasant 22-1 NPB	15044222	20	\$12,000	Yes

Redwood

Name	TRDS	Acres	Est Cost	Existing Protection?
Cedar Mountain SNA	11234214	40	\$5,000	Yes
Cedar Mountain SNA	11234215	33	\$47,000	Yes
Delhi 14-1 NPB	11336214	15	\$4,000	yes
Lamberton 13 NPB	10937213	10	\$7,000	yes
Phyllis Voosen WMA	11238219	90	\$67,500	Yes
Swedes Forest 21-1 NPB	11437221	10	\$29,000	yes
Swedes Forest 28-1 NPB	11437228	2	\$2,800	yes
Swedes Forest 28-1 NPB	11437228	10	\$6,500	yes
Whispering Ridge AMA	11236217	50	\$100,000	Yes

Renville

Name	TRDS	Acres	Est Cost	Existing Protection?
Lower Flora 3-1 NPB	11336203	5	\$7,400	yes
River Warren Outcrops SNA	11436233	29	\$91,000	Yes

Rice

Name	TRDS	Acres	Est Cost	Existing Protection?
Northfield 1-1 NPB	11119201	5	\$16,800	Yes

Roseau

Name	TRDS	Acres	Est Cost	Existing Protection?
Two Rivers Aspen Parkland SNA	16044217	80	\$22,900	Yes
Two Rivers Aspen Parkland SNA	16044217	100	\$12,900	Yes

Scott

Name	TRDS	Acres	Est Cost	Existing Protection?
Bradshaw Lake WMA	11322215	14	\$7,400	Yes

Stevens

Name	TRDS	Acres	Est Cost	Existing Protection?
Verlyn Marth Memorial Prairie SNA	12642206	1	\$7,100	Yes

Swift

Name	TRDS	Acres	Est Cost	Existing Protection?
Appleton 36-1 NPB	12043219	10	\$10,000	Yes
Lac qui Parle WMA	12043220	5	\$5,000	Yes
Lac qui Parle WMA	12043220	12	\$20,000	Yes
Lac qui Parle WMA	12043229	12	\$7,500	Yes
Lac qui Parle WMA	12043233	1,500	\$50,000	Yes
Lac qui Parle WMA	12043235	3	\$9,000	Yes

Todd

Name	TRDS	Acres	Est Cost	Existing Protection?
Hartford WMA	13033224	14	\$32,300	Yes
Long Prairie River WMA	13133214	82	\$190,800	Yes
Owen-Hinz WMA	12835212	63	\$50,500	Yes

Traverse

Name	TRDS	Acres	Est Cost	Existing Protection?
Walls 18-1 NPB	12647218	40	\$12,000	Yes
Walls 7-1 NPB	12647207	50	\$12,000	Yes
Walls 7-2 NPB	12647207	40	\$12,000	Yes
Windsor 13-1 NPB	12648213	70	\$12,800	Yes

Wabasha

Name	TRDS	Acres	Est Cost	Existing Protection?
Mc Carthy Lake WMA	10910213	40	\$34,000	Yes

Washington

Name	TRDS	Acres	Est Cost	Existing Protection?
Bayport WMA	02920222	75	\$270,100	Yes

Wilkin

Name	TRDS	Acres	Est Cost	Existing Protection?
Atherton 5-1	13646205	40	\$12,000	Yes
Bilden NPB	13545215	20	\$9,500	Yes
Rogers NPB	13746227	1	\$7,200	Yes
Tanberg 20-1 NPB	13545220	75	\$12,900	Yes
Tanberg 29-1 NPB	13545229	40	\$12,000	Yes
Tanberg 29-2 NPB	13545229	50	\$12,000	Yes
Tanberg 33-1	13545233	5	\$21,000	Yes
Tanberg 33-1	13545233	50	\$12,000	Yes

Winona

Name	TRDS	Acres	Est Cost	Existing Protection?
Whitewater Complex	10710202	30	\$159,000	yes
Whitewater WMA	10810226	30	\$15,000	Yes
Whitewater WMA	10810226	30	\$45,000	Yes

Yellow Medicine

Name	TRDS	Acres	Est Cost	Existing Protection?
Fortier 24-1 NPB	11446224	15	\$10,000	yes
Mound Spring Prairie SNA	11546218	40	\$6,000	Yes
Posen WMA	11339224	21	\$16,000	Yes
Stony Run 10-1 NPB	11640210	15	\$7,500	yes
Stony Run 11-1 NPB	11640211	10	\$7,500	yes
Stony Run 3-1 NPB	11640203	20	\$7,500	yes

Section 2 - Protect Parcel List

No parcels with an activity type protect.

Section 2a - Protect Parcel with Bldgs

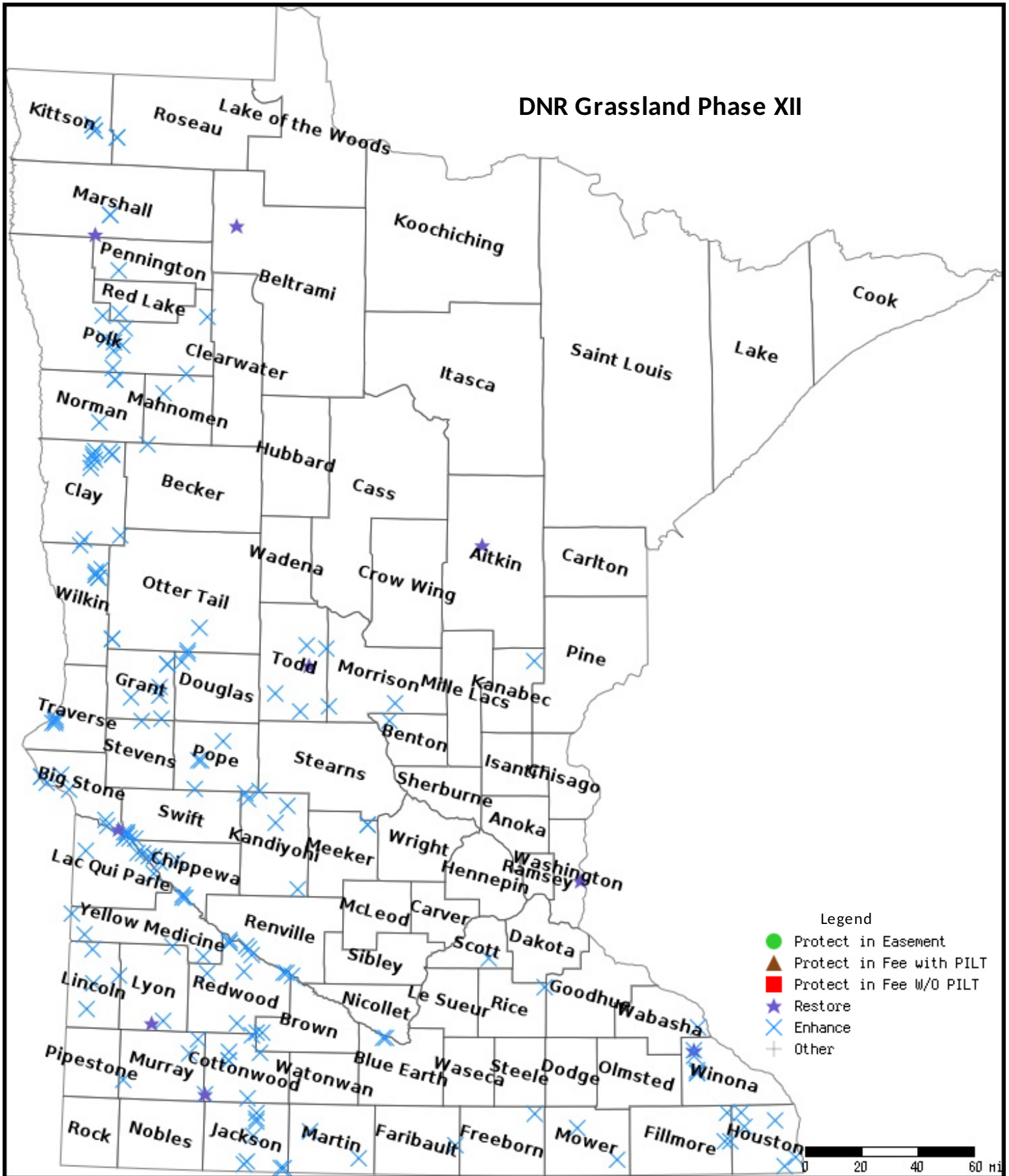
No parcels with an activity type protect and has buildings.

Section 3 - Other Parcel Activity

No parcels with an other activity type.

Parcel Map

DNR Grassland Phase XII



Data Generated From Parcel List

DNR Grasslands Phase XII



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
BWSR Rim easements



Enhance and restore 35,000 acres
\$10,918,00





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.



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