Lessard-Sams Outdoor Heritage Council Fiscal Year 2018 / ML 2017 Request for Funding

Date: June 15, 2016

Program or Project Title: DNR Grasslands - Phase IX (PRE01)

Funds Requested: \$13,184,800

Manager's Name: Greg Hoch Title: Prairie Habitat Team Supervisor Organization: DNR Address: 500 Lafayette Rd City: St Paul, MN 55155 Office Number: 651-259-5230 Mobile Number: 218-443-0476 Email: greg.hoch@state.mn.us

County Locations: Aitkin, Anoka, Becker, Beltrami, Benton, Big Stone, Blue Earth, Brown, Carver, Chippewa, Clay, Clearwater, Cottonwood, Dakota, Dodge, Douglas, Fillmore, Freeborn, Goodhue, Grant, Houston, Jackson, Kandiyohi, Kittson, Lac qui Parle, Lincoln, Lyon, Mahnomen, Marshall, McLeod, Meeker, Mille Lacs, Morrison, Mower, Murray, Nobles, Norman, Olmsted, Ottertail, Otter Tail, Polk, Pope, Prairie, Red Lake, Redwood, Renville, 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:

• Prairie

Abstract:

We propose to continue our programmatic efforts to enhance and restore prairies, grasslands, and savannas as described in the MN Prairie Conservation Plan and Pheasant Summit Action Plan, primarily relying on contractors and DNR Roving Crews. This proposal has worked on WMAs, SNAs, and Prairie Bank easements in the past. This year we expand enhancement efforts to USFWS Refuges and WPAs as well as BWSR RIM easement. Without periodic ecological disturbances grasslands decline in both plant diversity and wildlife productivity.

Design and scope of work:

Since 2007, Minnesota has lost 685,000 acres of CRP grasslands and uncounted acres of native prairie, pastures, and hayfields. In the next three years, the state is projected to lose another 398,000 acres. Between 2002 and 2012, drainage tile installation in parts of Minnesota increased over 2600 percent. Because of these dramatic losses, it's even more critical for our remaining permanently protected grasslands to be as productive as possible for wildlife.

This programmatic request seeks funding to enhance habitat on permanently protected grasslands and prairies. Without disturbances such as fire, the plant diversity and wildlife productivity will decline. Additionally, invasive species will increase and trees will invade the



grassland, which changes the very character of the habitat. All of the activities listed in this proposal will enhance habitat for grassland wildlife and pollinators. Each part of this request will use BMPs for grassland enhancements and diverse local ecotype seed mixes for restorations.

This request seeks to enhance grassland habitat on WMAs. Enhancements will focus on prescribed fire, woody species removal, invasive species control, and enhancing plant diversity for pollinators and wildlife. Almost all of this work will be completed by local contractors. Request also includes a contract coordinator to assist with grant management and reporting. WMA Habitat Enhancement (10,900 acres) and Restoration (940 acres) over five years - \$2,662,110.

The request seeks to fund the Region 3 Roving crew for four years. The Roving crews are additive to past habitat enhancement capabilities. They are completing projects that weren't getting done before the OHF. They are completing projects themselves as well as teaming up with other DNR staff or crews from TNC and the USFWS to conduct large-scale projects. DNR Region 3 Roving Crew (15,000 acres) over four years - \$2,040,000

Within the SNA program, this request will restore severely altered lands (cropland in-holdings or buffers) to suitable native prairie plant communities. We will also enhance prairies through prescribed fire, invasive species control and woody removal. Enhancement activities will focus on native prairies.

SNA Enhancement (5890 acres) and restoration (110 acres) - \$2,943,200

We are expanding our past efforts on DNR WMAs to USFWS WPAs and Refuges. The primary focus of this effort will be increasing prescribed fire capacity on FWS lands. Additionally, we will use local contractors to conduct tree removal and other grassland enhancement work focused on but not limited to Pheasant Action Plan habitat complexes. We will also focus on areas where WMAs and WPAs share a common border to better manage those as single large units than separate smaller units. We request a DNR staff to manage the contracts for these enhancements.

USFWS Prescribed Fire and Grassland Enhancement (72040 acres) - \$5,023,300

BWSR's RIM Program will develop pollinator plots on 333 acres at a cost of \$200,000. These plots will be small, 2-4 acres in size, in the middle of larger existing RIM easements. BWSR Enhancement (333 acres) - \$200,000

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:

- Minnesota Prairie Conservation Plan
- Pheasant Summit Action Plan

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

These plans have two types of indicators, acres and wildlife response. Through the Prairie Plan we are finding it challenging to measure acres, given all the different types of enhancement, ownerships, and funding sources. The DNR has hired two staff recently to work on this effort of coordinating enhancement work among the DNR, USFWS, TNC, and other conservation partners. Sadly, we are finding it even more difficult to measure wildlife responses in a way that is scientifically valid and statistically defensible. We find this very frustrating, but almost everyone in the conservation community deals with these issues. We have made a commitment to continue to work on these issues and keep the Council and staff updated on our progress.

Which LSOHC section priorities are addressed in this proposal:

Prairie:

 Protect, enhance, or restore existing wetland/upland complexes, or convert agricultural lands to new wetland/upland habitat complexes

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:

While the enhancement and restoration activities in this request are on permanently protected lands, by their very nature the enhancements are impermanent. Grasslands need to be repeatedly enhanced to maintain their plant diversity and wildlife productivity. Through the process of adaptive management, we have had increasing success with our restoration activities. We do things very differently today than we did 25 years ago. It's easy to see those differences today when walking around on an older vs newer restoration. Our more recent restorations generally have a much greater level of plant diversity. It is much easier to 'do it right' the first time and start with a high diversity plant community than to have to have to repeat the restoration. This speaks to the permanence of the quality of the habitat. That said, there is still much we need to learn.

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:

This request is building on the foundations provided by the MN Prairie Conservation Plan as well as the Pheasant Summit Action Plan. Both of these plans were heavily dependent on the best available science on wildlife and habitat management. The Prairie Plan especially is focused on areas identified as having the highest densities of remaining native prairie. We know that small and/or isolated populations can suffer from genetic deterioration and have a high risk of local extinction from disease outbreak or severe weather. The Prairie Plan and Pheasant Plan are built around developing, protecting, and enhancing/managing large landscape complexes of habitat. This strategy will support large populations of a diverse number of wildlife. Complexes also allow us to incorporate many habitat types (dry upland prairie, sedge meadow, brushland, wetlands and cattail marshes) and a variety of enhancement activities or land uses (prescribed fire, grazing, haying, etc) that we simply can't do on a small parcel of habitat. This mix of habitat types and structures then provides optimal habitat for the range of species who require dry to wet grasslands, or shorter to taller vegetation.

The Prairie Plan specifically addresses the issue of corridors. Corridors allow movement across the region. This enhances genetic diversity of populations and allow habitats to be quickly recolonized in the event of a local extinction event or if the population becomes too low to be sustainable. The north-south orientation of the Prairie Plan facilitates the migration of waterfowl and songbirds in the spring and fall. The national monarch conservation plan is largely built around a monarch migration corridor that follows Interstate 35 from Texas to Minnesota and then follows the Prairie Passage into and up the western side of Minnesota.

DNR, USFWS, and TNC researchers are continuing to refine our landscape and wildlife population models so that we can continue to do the best work where it will do the most good. This effort will never be finished as there is always more research being published and new ways to refine our models and conservation efforts.

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:

Across western Minnesota and the rest of the Upper Midwest and Great Plains, grassland birds and other wildlife continue their steep decline. Nationally, grassland birds continue to be ranked as the most threatened. In Minnesota, songbird censuses continue to show declines in grassland dependent species. As we all know, pheasant harvest continues to decline despite some of our best conservation efforts in the state. This is simply because for every acre of fee title or conservation easement, we're losing many acres of CRP grasslands. We are still losing grasslands across the region at nearly unprecedented levels.

At the same time, there are several T&E species in western Minnesota. Two butterflies (skippers) were recently listed and one of them may be extinct in the state. The Minnesota Zoo has developed a captive breeding program, but without safe, high quality, permanently protected grasslands, there will be no or few places to release these individuals and try to re-establish populations. In the most recent state wildlife action plan, 89 of the Species of Greatest Conservation Need are grassland dependent.

We have also dramatically improved the way we restore and enhance grasslands in the last couple decades. Early 'restorations' used very few species and we often didn't know the seed origin. Today we focus on local ecotype seed and often uses very diverse seed mixes. While this will provide improved habitat for the game species agencies have traditionally managed for, it will be even more

beneficial to songbird, pollinators, and nongame wildlife.

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

By measuring the ratios of CRP acres in Minnesota to pheasant harvest over the last 15 years, we can estimate that every three acres of grassland habitat restored or enhanced will potentially increase the pheasant harvest by one rooster.

According to the research literature and personal observations in Minnesota, prairie chickens require a minimum of 320 acres of high quality grasslands with no wildlife hostile habitat (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.

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.

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 The DNR Ecological and Water Resources staff, including the Biological Survey, are primarily involved with this type of monitoring.

Programs in forest-prairie transition region:

• Protected, restored, and enhanced nesting and migratory habitat for waterfowl, upland birds, and species of greatest conservation need We currently do not have a statistically valid way of monitoring or addressing these issues. The DNR and partners are committed to working on this issue and keeping Council members and staff informed on these efforts. DNR Wildlife Research recently completed a study of mallard population monitoring that identified several issues that complicate small and large-scale monitoring in statistically defensible ways.

Programs in metropolitan urbanizing region:

• Core areas protected with highly biologically diverse wetlands and plant communities, including native prairie, Big Woods, and oak savanna DNR EWR staff will be primarily leading this effort to monitor outcomes in this part of the state.

Programs in southeast forest region:

• Healthier populations of endangered, threatened, and special concern species as well as more common species Again, DNR EWR researchers will be the primary way we can monitor populations in this part of the state.

Programs in prairie region:

• Improved condition of habitat on public lands The multi-agency Grassland Monitoring Team will continue to evaluate plant diversity. The USFWS Native Prairie Adaptive Management program focuses on the effects of enhancements on native plant diversity. DNR Wildlife has hired a new Habitat Biologist who specializes in pollinators. She will play an active role in monitoring impacts of enhancement activities on the invertebrate community. DNR Wildlife Research staff also have ongoing projects that study habitat and wildlife population responses to habitat quality.

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

Routine maintenance of these sites will be conducted by Area Wildlife staff on WMAs, DNR EWR staff on SNAs and Prairie Bank Easements, and USFWS staff on Refuges and WPAs. Maintaining prescribed levels of management will be dependent on future requests from the OHF, Game and Fish Fund, bonding, USFWS operating budgets and federal grant programs such as NAWCA (North American Wetland Conservation Act), ENRTF, or Special Project funds for SNAs.

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

| Year | Source of Funds | Step 1 | Step 2 | Step 3 |
|--------------------|-------------------------------------|---|-------------------|---|
| 2020 | Those listed in table above and OHF | monitor a subset of completed projects | Strategic Habitat | Determine capacity for traditional funds to meet these objectives |
| 2021 and beyond | Those listed above and OHE | ,, | | continue monitoring and research |

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

Every year woody invasion and invasive species increase while native plant diversity and wildlife populations often declines. In prairie enhancement, an ounce of prevention is definitely better than a pound of cure. Catching invasive species at the beginning of an infestation allows us to quickly and inexpensively treat the small area of the invasion before they expand to a large percentage of the unit. Woody removal can be even more expensive if we have to remove dense stands of large trees compared to a few small trees or saplings.

The Governor has made water quality, especially in western Minnesota, a major focus of his administration. Research has shown that one of the best ways to prevent sediment and chemical inputs into streams, rivers, and lakes is by having high quality grasslands on the landscape that prevent erosion and filter sediment and chemicals from the water before they enter waterways.

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 |
|-----------------------|---|------------|
| 2015 | Game and Fish (Wildlife Operations) | 22,400,000 |
| 2015 | Dedicated Account Funds (Duck Stamp, Pheasant Stamp, etc) | 7,300,000 |
| 2015 | Heritage Enhancement Account | 4,300,000 |

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, Refuge Lands, RIM and Prairie Bank easements)

Do you anticipate federal funds as a match for this program - Yes

Are the funds confirmed - Yes

Documentation

What are the types of funds?

Land Use:

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

Explain

The primary purposes of WMAs are to develop and manage for the production of wildlife and for compatible outdoor recreation. To fulfill those goals, the DNR may use limited farming specifically to enhance or benefit the management of state lands for wildlife. This proposal may include initial development plans or restoration plans to utilize farming to prepare previously farmed sites for native plant seeding. This is a standard practice across the Midwest to prepare the seedbed for native seed planting. On a small percentage of WMAs (less than 2.5%), DNR uses farming to provide a winter food source for a variety of wildlife species in agriculture-dominated landscapes largely devoid of winter food sources.

Are any of the crop types planted GMO treated - Yes

Accomplishment Timeline

| Activity | Approximate Date Completed |
|---|----------------------------|
| WMA enhancement/restoration (excluding Roving Crew) | 6/30/2022 |
| SNA / Prairie Bank enhancement/restoration | 6/30/2022 |
| Roving Crewenhancement/restoration | 6/30/2021 |
| Pollinator Plots on RIM easements | 6/30/2022 |
| WPA / Refuge enhancement | 6/30/2022 |

Budget Spreadsheet

Total Amount of Request: \$13,184,800

Budget and Cash Leverage

| BudgetName | LSOHC Request | Anticipated Leverage | Leverage Source | Total |
|----------------------------|---------------|----------------------|-----------------|--------------|
| Personnel | \$2,547,400 | \$0 | | \$2,547,400 |
| Contracts | \$8,535,900 | \$0 | | \$8,535,900 |
| 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 | \$912,300 | \$0 | | \$912,300 |
| Pro fessional Services | \$0 | \$0 | | \$0 |
| Direct Support Services | \$425,100 | \$0 | | \$425,100 |
| DNR Land Acquisition Costs | \$0 | \$0 | | \$0 |
| Capital Equipment | \$0 | \$0 | | \$0 |
| Other Equipment/Tools | \$2,500 | \$0 | | \$2,500 |
| Supplies/Materials | \$761,600 | \$0 | | \$761,600 |
| DNR IDP | \$0 | \$0 | | \$0 |
| Total | \$13,184,800 | \$0 | - | \$13,184,800 |

Personnel

| Po sitio n | FT E | Over#ofyears | LSOHC Request | Anticipated Leverage | Leverage Source | T o tal |
|---|-------|--------------|---------------|----------------------|-----------------|-------------|
| Roving CrewLeader and Crew(1leader plus 5 crewmembers | 6.00 | 4.00 | \$1,200,000 | \$0 | | \$1,200,000 |
| Grant coordinators (2) - FAW | 2.00 | 5.00 | \$484,000 | \$0 | | \$484,000 |
| Contract and Project Mgt - EWR | 0.18 | 4.00 | \$63,000 | \$0 | | \$63,000 |
| SNA-NPB specs and technicians - EWR | 2.63 | 4.00 | \$737,300 | \$0 | | \$737,300 |
| laborers and seasonals | 0.45 | 4.00 | \$63,100 | \$0 | | \$63,100 |
| Total | 11.26 | 21.00 | \$2,547,400 | \$0 | - | \$2,547,400 |

| Amount of Request: | \$13,184,800 |
|---------------------------------------|--------------|
| Amount of Leverage: | \$0 |
| Leverage as a percent of the Request: | 0.00% |
| DSS + Personnel: | \$2,972,500 |
| As a % of the total request: | 22.54% |
| 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:

DNR calculates DSS costs that are directly related to and necessary for each request based on the type of work being done and which division it's being done by.

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

Almost all of the R/E funds will be for contract work.

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:

The amount requested in the travel line includes traditional travel costs of mileage, food, and lodging and it also includes funding for specialized equipment used by Roving Habitat Crews such as tracked vehicles, Bobcat-type vehicles, and heavy equipment.

Describe and explain leverage source and confirmation of funds:

Fire detailers and contractors will be paired with existing FWS fire crews. Funds expended by FWS fire staff during prescribed fires will be used as match.

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:

This request is a series of discrete projects. If we received reduced funding, we would simply revisit our project list and prioritize projects up to the funding level.

Output Tables

Table 1a. Acres by Resource Type

| Туре | Wetlands | Prairies | Forest | Habitats | Total |
|--|----------|----------|--------|----------|--------|
| Restore | 0 | 1,056 | 0 | 0 | 1,056 |
| 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 | 98,035 | 0 | 0 | 98,035 |
| Total | 0 | 99,091 | 0 | 0 | 99,091 |

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

| Туре | 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 | 5,000 |
| Total | 5,000 |

Table 2. Total Requested Funding by Resource Type

| Туре | Wetlands | Prairies | Forest | Habitats | T o tal |
|--|----------|--------------|--------|----------|--------------|
| Restore | \$0 | \$727,300 | \$0 | \$0 | \$727,300 |
| 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 | \$12,457,500 | \$0 | \$0 | \$12,457,500 |
| Total | \$0 | \$13,184,800 | \$0 | \$0 | \$13,184,800 |

Table 3. Acres within each Ecological Section

| Туре | Metro /Urban | Forest/Prairie | SEForest | Prairie | Northern Forest | T o ta l |
|--|--------------|----------------|----------|---------|-----------------|----------|
| Restore | 95 | 0 | 136 | 85 | 740 | 1,056 |
| 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 | 11,817 | 15,983 | 8,505 | 61,501 | 229 | 98,035 |
| Total | 11,912 | 15,983 | 8,641 | 61,586 | 969 | 99,091 |

Table 4. Total Requested Funding within each Ecological Section

| Туре | Metro/Urban | Forest/Prairie | SEForest | Prairie | Northern Forest | T o tal |
|--|-------------|----------------|-------------|-------------|-----------------|--------------|
| Restore | \$72,200 | \$0 | \$198,700 | \$96,300 | \$360,100 | \$727,300 |
| 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 | \$1,308,800 | \$1,556,700 | \$2,139,300 | \$7,095,900 | \$356,800 | \$12,457,500 |
| Total | \$1,381,000 | \$1,556,700 | \$2,338,000 | \$7,192,200 | \$716,900 | \$13,184,800 |

Table 5. Average Cost per Acre by Resource Type

| Туре | Wetlands | Prairies | Forest | Habitats |
|--|----------|----------|--------|----------|
| Restore | \$0 | \$689 | \$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 | \$127 | \$0 | \$0 |

Table 6. Average Cost per Acre by Ecological Section

| Туре | Metro/Urban | Forest/Prairie | SE Forest | Prairie | Northern Forest |
|--|-------------|----------------|-----------|---------|-----------------|
| Restore | \$760 | \$0 | \$1,461 | \$1,133 | \$487 |
| 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 | \$111 | \$97 | \$252 | \$115 | \$1,558 |

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 selected by Prairie Plan Core Areas and then by areas where we can do the most work most efficiently in the agricultural matrix of the state. We also try to identify issues early on so that we can proactively treat the area early and more cost effectively compared to once a problem gets out of hand, such as invasive species.

Section 1 - Restore / Enhance Parcel List

Anoka

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------------|----------|-------|----------|----------------------|
| Blaine Preserve | 03123226 | 4 | \$15,400 | Yes |
| Blaine Preserve | 03123226 | 10 | \$13,200 | Yes |

Big Stone

| Name | T RDS | Acres | EstCost | Existing Protection? |
|----------------|----------|-------|---------|----------------------|
| Akron 13-1 NPB | 12044213 | 30 | \$6,300 | Yes |
| Bonanza SNA | 12348220 | 50 | \$5,300 | Yes |
| Johnson NPB | 12247201 | 2 | \$1,300 | Yes |

Brown

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------------------|----------|-------|---------|----------------------|
| Cottonwood River Prairie | 10935231 | 50 | \$3,800 | Yes |
| Eden North 19-1 NPB | 11233219 | 4 | \$8,400 | Yes |
| Linden 6-1 NPB | 10830206 | 10 | \$4,700 | Yes |
| Mulligan 18-1 NPB | 10833218 | 68 | \$4,700 | Yes |

Carver

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------|----------|-------|----------|----------------------|
| Seminary Fen | 11623235 | 8 | \$36,900 | Yes |
| Seminary Fen | 11623235 | 20 | \$16,900 | Yes |
| Seminary Fen | 11623235 | 20 | \$20,000 | Yes |

Chippewa

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------|----------|-------|---------|----------------------|
| Gneiss | 11539211 | 20 | \$4,200 | Yes |

Clay

| Name | T RDS | Acres | EstCost | Existing Protection? |
|------------------------|----------|-------|----------|----------------------|
| Assinaboia | 14245220 | 10 | \$21,100 | Yes |
| Assinaboia | 14245220 | 150 | \$15,800 | Yes |
| B-B Ranch | 14146213 | 150 | \$15,800 | Yes |
| Bicentennial | 14145205 | 100 | \$10,500 | Yes |
| Blanket Flower Prairie | 13744211 | 15 | \$21,100 | Yes |
| Blanket Flower Prairie | 13744211 | 150 | \$15,800 | Yes |
| Shrike | 14245230 | 40 | \$4,700 | Yes |
| Strand N NPB | 14244219 | 45 | \$4,700 | Yes |
| Strand S | 14244230 | 20 | \$10,500 | Yes |
| Ulen 29 | 14244229 | 40 | \$4,700 | Yes |

Cottonwood

| Name | T RDS | Acres | Est Co st | Existing Protection? |
|---------------------|----------|-------|-----------|----------------------|
| Ann 25-1 NPB | 10838225 | 24 | \$4,200 | Yes |
| Carson 5-1 NPB | 10635205 | 5 | \$1,100 | Yes |
| Great Bend 29-1 NPB | 10536229 | 2 | \$500 | Yes |
| Rock Ridge | 10735205 | 35 | \$2,600 | Yes |
| Storden 4-1 NPB | 10737204 | 40 | \$4,700 | Yes |

Dakota

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------|----------|-------|----------|----------------------|
| Chimney Rock | 11417231 | 4 | \$10,700 | Yes |
| Chimney Rock | 11417231 | 5 | \$11,100 | Yes |
| Chimney Rock | 11417231 | 28 | \$49,000 | Yes |

Douglas

| Name | T RDS | Acres | EstCost | Existing Protection? |
|---------|----------|-------|----------|----------------------|
| Lund 2 | 13040202 | 6 | \$25,300 | Yes |
| Lund 2 | 13040202 | 7 | \$5,800 | Yes |
| Lund 2 | 13040202 | 80 | \$8,400 | Yes |
| Lund 21 | 13040221 | 5 | \$15,800 | Yes |

Fillmore

| Name | T RDS | Acres | EstCost | Existing Protection? |
|------------------|----------|-------|----------|----------------------|
| Pin Oak Prairie | 10412224 | 12 | \$3,700 | Yes |
| Pin Oak Prairie | 10412224 | 20 | \$50,000 | Yes |
| Rushford Complex | 10408214 | 285 | \$59,800 | Yes |
| Rushford Complex | 10408219 | 30 | \$72,700 | Yes |

Goodhue

| Name | T RDS | Acres | EstCost | Existing Protection? |
|------------------------------|----------|-------|-----------|----------------------|
| Cannon River Turtle Preserve | 11316224 | 8 | \$35,600 | Yes |
| Cannon River Turtle Preserve | 11316224 | 15 | \$10,000 | Yes |
| Cannon River Turtle Preserve | 11316224 | 22 | \$9,300 | Yes |
| Cannon River Turtle Preserve | 11316224 | 30 | \$27,900 | Yes |
| River Terrace Prairie | 11217201 | 8 | \$7,500 | Yes |
| River Terrace Prairie | 11217201 | 40 | \$4,500 | Yes |
| Spring Creek Prairie | 11315234 | 5 | \$4,200 | Yes |
| Spring Creek Prairie | 11315234 | 10 | \$9,700 | Yes |
| Spring Creek Prairie | 11315234 | 32 | \$138,000 | Yes |
| Spring Creek Prairie | 11315234 | 57 | \$19,000 | Yes |

Grant

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------|----------|-------|---------|----------------------|
| Olson NPB | 12841206 | 20 | | Yes |

Houston

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------------------|----------|-------|-----------|----------------------|
| Hokah Complex | 10405234 | 5 | \$13,400 | Yes |
| Jefferson complex | 10104219 | 122 | \$69,200 | Yes |
| Mound Prairie | 10405234 | 48 | \$8,500 | Yes |
| Reno complex | 10104202 | 63 | \$42,100 | Yes |
| Sheldon Complex | 10306227 | 50 | \$154,200 | Yes |
| Vinegar Ridge Complex | 10407215 | 180 | \$129,800 | Yes |
| Wetbark Complex | 10307211 | 195 | \$89,700 | Yes |

Jackson

| Name | T RDS | Acres | EstCost | Existing Protection? |
|---------------------|----------|-------|----------|----------------------|
| Des Moines | 10435219 | 52 | \$4,200 | Yes |
| Petersburg 27-1 NPB | 10134227 | 13 | \$11,600 | Yes |
| Petersburg 27-1 NPB | 10134227 | 20 | \$5,300 | Yes |
| Petersburg 33-1 NPB | 10134233 | 3 | \$2,600 | Yes |

Kittson

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------|----------|-------|----------|----------------------|
| Lake Bronson | 16146225 | 5 | \$19,000 | |

Lac qui Parle

| Name | T RDS | Acres | EstCost | Existing Protection? |
|------------------|----------|-------|---------|----------------------|
| Agassiz 23-1 NPB | 12045214 | 80 | \$5,300 | |

Lyon

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------------|----------|-------|---------|----------------------|
| Custer 15-1 NPB | 10941215 | 4 | \$1,100 | Yes |
| Lyon/Lynd NPB | 11142236 | 1 | \$1,700 | Yes |

Mahnomen

| Name | T RDS | Acres | EstCost | Existing Protection? |
|----------------|----------|-------|----------|----------------------|
| Santee Prairie | 14541206 | 150 | \$15,800 | |

Marshall

| Name | T RDS | Acres | EstCost | Existing Protection? |
|------------------|----------|-------|----------|----------------------|
| Marsh Grove 36-1 | 15645236 | 5 | \$19,000 | Yes |
| Marsh Grove 36-1 | 15645236 | 150 | \$15,800 | Yes |

Mower

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-------------|----------|-------|----------|----------------------|
| Wild Indigo | 10316218 | 24 | \$75,800 | Yes |
| Wild Indigo | 10316217 | 20 | \$5,300 | Yes |

Murray

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------------|----------|-------|---------|----------------------|
| Holly 2-1 NPB | 10839202 | 3 | \$800 | Yes |
| Holly 2 & 3 NPB | 10839202 | 11 | \$9,600 | Yes |

Norman

| Name | T RDS | Acres | EstCost | Existing Protection? |
|---------------------|----------|-------|----------|----------------------|
| Prairie Smoke Dunes | 14644217 | 6 | \$22,100 | Yes |
| Prairie Smoke Dunes | 14644217 | 150 | \$15,800 | Yes |
| Sandpiper Prairie | 14345204 | 150 | \$15,800 | Yes |

Olmsted

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------------|----------|-------|----------|----------------------|
| Oronoco Prairie | 10814222 | 2 | \$5,300 | Yes |
| Oronoco Prairie | 10814222 | 10 | \$10,000 | Yes |
| Oronoco Prairie | 10814222 | 15 | \$6,400 | Yes |

Otter Tail

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-------------------|----------|-------|----------|----------------------|
| Nidaros 21 | 13239221 | 20 | \$4,700 | Yes |
| Ottertail Priaire | 13144217 | 160 | \$16,900 | Yes |
| Wallace | 13140235 | 100 | \$10,500 | Yes |

Polk

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------|----------|-------|----------|----------------------|
| Crookston | 14944213 | 13 | \$21,100 | Yes |
| Crookston | 14944213 | 150 | \$15,800 | Yes |
| Foxboro | 14845203 | 6 | \$19,000 | Yes |
| Foxboro | 14845203 | 80 | \$8,400 | Yes |

Pope

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-------------------|----------|-------|----------|----------------------|
| Blue Mounds 10-1 | 12439210 | 5 | \$31,600 | Yes |
| Blue Mounds 10-1 | 12439210 | 150 | \$10,500 | Yes |
| Lake Johanna 31-2 | 12336231 | 5 | \$12,600 | Yes |
| Langhei Prairie | 12339232 | 20 | \$4,700 | Yes |
| SelixNPB | 12439209 | 20 | \$4,700 | Yes |

Red Lake

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------------|----------|-------|---------|----------------------|
| Lake Pleasant 22-1 | 15044222 | 40 | \$4,700 | Yes |

Redwood

| Name | T RDS | Acres | Est Co st | Existing Protection? |
|------------------------|----------|-------|-----------|----------------------|
| Cedar Mountain | 11234214 | 13 | \$42,100 | Yes |
| Cedar Mountain | 11234214 | 40 | \$4,700 | Yes |
| Cedar Rock | 11336203 | 8 | \$26,300 | Yes |
| Delhi 14-1 NPB | 11336214 | 30 | \$63,200 | Yes |
| Lamberton 15-1 NPB | 10937215 | 4 | \$1,000 | Yes |
| Lamberton 15-1 NPB | 10937215 | 8 | \$4,700 | Yes |
| Swedes Forest 28-1 NPB | 11437228 | 3 | \$6,300 | Yes |

Renville

| Name | T RDS | Acres | EstCost | Existing Protection? |
|-----------------|----------|-------|----------|----------------------|
| Morton Outcrops | 11334231 | 4 | \$4,200 | Yes |
| Morton Outcrops | 11334231 | 10 | \$42,100 | Yes |

Roseau

| Name | T RDS | Acres | EstCost | Existing Protection? |
|---------------|----------|-------|----------|----------------------|
| Two Rivers AP | 16044217 | 20 | \$15,800 | Yes |
| Two Rivers AP | 16044219 | 6 | \$19,000 | Yes |
| Two Rivers AP | 16044219 | 250 | \$21,100 | Yes |

Scott

| Name | T RDS | Acres | EstCost | Existing Protection? |
|------------|----------|-------|-----------|----------------------|
| Savage Fen | 11521217 | 10 | \$25,500 | Yes |
| Savage Fen | 11521217 | 35 | \$152,700 | Yes |

Sherburne

| Name | T RDS | Acres | EstCost | Existing Protection? |
|---------------------|----------|-------|----------|----------------------|
| Harry Cater Prairie | 03530222 | 11 | \$4,700 | Yes |
| Uncas Dunes | 03427221 | 11 | \$5,300 | Yes |
| Uncas Dunes | 03427221 | 20 | \$45,300 | Yes |

Stearns

| Name | T RDS | Acres | EstCost | Existing Protection? |
|---------------------|----------|-------|----------|----------------------|
| Quarry Park | 12428229 | 4 | \$17,900 | Yes |
| Sedan Brook Prairie | 12435217 | 14 | \$27,400 | Yes |
| Sedan Brook Prairie | 12435217 | 17 | \$41,600 | Yes |
| Sedan Brook Prairie | 12435217 | 40 | \$15,000 | Yes |

Swift

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------------|----------|-------|---------|----------------------|
| Appleton 19-1 NPB | 12043219 | 30 | \$6,300 | Yes |
| Fairfield 31-1 NPB | 12242231 | 6 | \$1,700 | Yes |

Traverse

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------|----------|-------|----------|----------------------|
| Fibranz | 12747232 | 40 | \$4,700 | Yes |
| Walls 18-1 | 12647218 | 24 | \$4,700 | Yes |
| Walls 7-1 | 12647207 | 60 | \$6,300 | Yes |
| Walls 7-2 | 12647207 | 15 | \$4,700 | Yes |
| Windsor 13-1 | 12648212 | 15 | \$31,600 | Yes |
| Windsor 13-1 | 12648212 | 90 | \$10,500 | Yes |

Wabasha

| Name | T RDS | Acres | EstCost | Existing Protection? |
|----------------------|----------|-------|-----------|----------------------|
| Kellogg Weaver Dunes | 10909206 | 80 | \$7,500 | Yes |
| Kellogg Weaver Dunes | 10909206 | 100 | \$34,200 | Yes |
| Kellogg Weaver Dunes | 10909206 | 150 | \$148,000 | Yes |

Washington

| Name | TRDS | Acres | EstCost | Existing Protection? |
|---------------------|----------|-------|----------|----------------------|
| Grey Cloud Dunes | 02721232 | 16 | \$10,500 | Yes |
| Grey Cloud Dunes | 02721232 | 20 | \$13,200 | Yes |
| Grey Cloud Dunes | 02721232 | 20 | \$75,800 | Yes |
| Lost Valley Prairie | 02720228 | 10 | \$7,400 | Yes |
| Lost Valley Prairie | 02720228 | 10 | \$12,100 | Yes |
| Lost Valley Prairie | 02720228 | 62 | \$23,300 | Yes |
| St. Croix Savanna | 02920215 | 5 | \$3,700 | Yes |
| St. Croix Savanna | 02920215 | 7 | \$17,900 | Yes |
| St. Croix Savanna | 02920215 | 25 | \$13,200 | Yes |

Wilkin

| Name | T RDS | Acres | EstCost | Existing Protection? |
|--------------|----------|-------|---------|----------------------|
| Atherton 5-1 | 13646205 | 30 | \$4,700 | Yes |
| Tanberg 20-1 | 13545220 | 80 | \$8,400 | Yes |
| Tanberg 29-1 | 13545229 | 80 | \$8,400 | Yes |
| Tanberg 29-2 | 13545229 | 60 | \$6,300 | Yes |

Yellow Medicine

| Name | T RDS | Acres | Est Co st | Existing Protection? |
|-------------------|----------|-------|-----------|----------------------|
| Blue Devil | 11539204 | 4 | \$15,800 | Yes |
| Fortier 24-1 NPB | 11446224 | 2 | \$1,000 | Yes |
| MN Falls 10-1 NPB | 11539210 | 5 | \$1,000 | Yes |
| MN Falls 3-1 NPB | 11539203 | 10 | \$1,700 | Yes |
| Mound Spring | 11546217 | 10 | \$5,300 | Yes |
| Mound Spring | 11546217 | 15 | \$3,200 | Yes |
| Mound Spring | 11546218 | 70 | \$3,200 | Yes |
| Mound Spring | 11546219 | 40 | \$3,200 | Yes |
| Mound Spring | 11546229 | 60 | \$4,200 | Yes |
| Swede Forest SNA | 11438212 | 14 | \$47,400 | Yes |
| Swede Forest SNA | 11438212 | 20 | \$4,200 | 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

Aitkin

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|-------------------------|----------|-------|-----------|----------------------|----------|----------|
| Gun Lake Restoration | 04825204 | 740 | \$325,000 | Yes | Full | Yes |

Anoka

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------------------------------|----------|-------|----------|----------------------|----------|----------|
| Burman WMA Savanna Enhancement | 03324223 | 30 | \$30,000 | Yes | Full | Yes |

Becker

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---------------------|----------|-------|-----------|----------------------|----------|----------|
| USFWS Detroit Lakes | 13941215 | 7,500 | \$240,000 | Yes | Yes | No |

Beltrami

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--|----------|-------|----------|----------------------|----------|----------|
| Prairie Enhancement | 14633228 | 33 | \$15,230 | Yes | Full | Yes |
| WoodrowPediocetes Prairie Enhancement | 15231227 | 13 | \$4,700 | Yes | Full | Yes |

Benton

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---------------------------------------|----------|-------|----------|----------------------|----------|----------|
| Ben-Lacs WMA Prairie Enhancement | 03628213 | 9 | \$17,500 | Yes | Full | Yes |
| Glendorado WMA Prairie Enhancement | 03628225 | 12 | \$32,500 | Yes | Full | Yes |

Big Stone

| Name | T RDS | Acres | Est Co st | Existing Protection? | Hunting? | Fishing? |
|---------------------|----------|-------|-----------|----------------------|----------|----------|
| USFWS Big Stone NWR | 12045208 | 7,478 | \$213,600 | | Limited | No |

Blue Earth

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|-----------|----------------------|----------|----------|
| Nicollet Area Woody Removal Projects | 10525224 | 85 | \$120,000 | Yes | Full | Yes |

Brown

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|-------------------------|----------|-------|----------|----------------------|----------|----------|
| Bashaw Grove Cutting | 10834221 | 10 | \$10,000 | Yes | Full | Yes |

Chippewa

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--|----------|-------|----------|----------------------|----------|----------|
| NewLondon area Brome to Natives Conversion | 11639205 | 50 | \$55,000 | Yes | Full | Yes |
| New London Area Volunteer Tree Removal | 11631204 | 160 | \$48,000 | Yes | Full | Yes |

Clearwater

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|----------|----------------------|----------|----------|
| Carter WMA Native Prairie Enhancement | 14838219 | 18 | \$10,000 | Yes | Full | Yes |
| Mosquito Creek Native Prairie Enhancement | 14637219 | 48 | \$29,800 | Yes | Full | Yes |

Cottonwood

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---------------------------------|----------|-------|-----------|----------------------|----------|----------|
| Summer Foliage Tree Spraying | 10535231 | 1,000 | \$6,000 | Yes | Full | Yes |
| Tree Pile Burning | 10130233 | 40 | \$15,000 | Yes | Full | Yes |
| USFWS Windo m | 10535219 | 8,883 | \$693,000 | Yes | Yes | No |
| Woody Removal | 10535224 | 304 | \$30,000 | Yes | Full | Yes |

Dodge

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------------------------------|----------|-------|----------|----------------------|----------|----------|
| Dodge County WMAs Woody Removal | 10717217 | 60 | \$50,000 | Yes | Full | Yes |
| Tri-Cooperative WMA Woody Removal | 10616225 | 15 | \$15,000 | Yes | Full | Yes |

Douglas

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|-------------------------------------|----------|-------|----------|----------------------|----------|----------|
| local origin diversity plantings | 12740226 | 10 | \$12,000 | Yes | Full | Yes |

Fillmore

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|----------|----------------------|----------|----------|
| Chosen Valley WMA Native Prairie | 10412206 | 30 | \$30,600 | Yes | Full | Yes |
| Hvoslef WMA Native Prairie | 10209226 | 12 | \$16,450 | Yes | Full | Yes |
| Nosek WMA Fen Enhancement | 10113224 | 15 | \$28,500 | Yes | Full | Yes |
| OHF FY18 Cherry Grove WMA Woody Cover removal | 10112203 | 78 | \$5,750 | Yes | Full | Yes |
| Upper Io wa River Native Prairie | 10113231 | 12 | \$12,240 | Yes | Full | Yes |

Freeborn

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---------------------------|----------|-------|----------|----------------------|----------|----------|
| WoWacintanka Grassland | 10419216 | 60 | \$35,000 | Yes | Full | Yes |

Goodhue

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|----------|----------------------|----------|----------|
| Understory Brush Mowing_Woody Removal | 10515222 | 200 | \$40,000 | Yes | Full | Yes |

Grant

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|----------------------------|----------|-------|----------|----------------------|----------|----------|
| Blakesley tree remo val | 12843233 | 5 | \$12,000 | Yes | Full | Yes |

Houston

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--|----------|-------|---------|----------------------|----------|----------|
| Chisholm Valley WMA, OHF Grassland Improvement | 10307204 | 10 | \$6,000 | Yes | Full | Yes |

Kandiyohi

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|------------------------------|----------|-------|----------|----------------------|----------|----------|
| Willmar WMA, tree removal | 12035236 | 29 | \$10,000 | Yes | Full | Yes |

Lincoln

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---------------------------------|----------|-------|---------|----------------------|----------|----------|
| Schindel Prairie Restoration | 10946222 | 25 | \$7,500 | Yes | Full | Yes |

Lyon

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------------------------------|----------|-------|----------|----------------------|----------|----------|
| Grandview Woody Removal | 11242218 | 128 | \$30,000 | Yes | Full | Yes |
| Rolling HIlls Prairie Restoration | 11140206 | 19 | \$5,700 | Yes | Full | Yes |
| Sodus Woody Removal | 10942201 | 31 | \$6,500 | Yes | Full | Yes |

Marshall

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|-------------------|----------|-------|-----------|----------------------|----------|----------|
| USFWS Agassiz NWR | 15641209 | 9,983 | \$299,150 | Yes | Limited | No |

McLeod

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--|----------|-------|----------|----------------------|----------|----------|
| Nicollet Area MUA Woody Removal Projects | 11628219 | 56 | \$45,000 | Yes | Full | Yes |

Meeker

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|------------------|----------|-------|-----------|----------------------|----------|----------|
| USFWS Litchfield | 11931203 | 9,086 | \$958,600 | Yes | Yes | No |

Mille Lacs

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|----------|----------------------|----------|----------|
| Kunkel Follow-up Brush Treatment | 03627235 | 65 | \$6,500 | Yes | Full | Yes |
| Kunkel WMA Prescribed Fire Management | 03627235 | 330 | \$19,800 | Yes | Full | Yes |

Morrison

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|----------|----------------------|----------|----------|
| Crane Meadows WMA Savanna Enhancement | 03931203 | 5 | \$7,000 | Yes | Full | Yes |
| Little Elk WMA Prairie Enhancement | | 20 | \$13,000 | Yes | Full | Yes |
| Little Elk WMA Prairie Enhancement | 13031219 | 45 | \$34,000 | Yes | Full | Yes |

Nobles

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|---------|----------------------|----------|----------|
| Sherwood WMA Prairie Reconstruction | 10243232 | 28 | \$9,000 | Yes | Full | Yes |

Olmsted

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|----------------------------|----------|-------|----------|----------------------|----------|----------|
| CFA Prairie conversions | 10515204 | 65 | \$75,000 | Yes | Full | Yes |

Ottertail

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------------|----------|-------|-----------|----------------------|----------|----------|
| USFWS Fergus Falls | 13441220 | 8,180 | \$534,000 | Yes | Yes | No |

Polk

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------------------------|----------|-------|-----------|----------------------|----------|----------|
| Crookston Polk Brush Mowing | 14844215 | 303 | \$40,000 | Yes | Full | Yes |
| USFWS Glacial Ridge NWR | 14944226 | 4,470 | \$188,000 | Yes | Limited | No |

Prairie

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------------|----------|-------|-----------|----------------------|----------|----------|
| Perched Valley WMA | 11213208 | 125 | \$117,500 | Yes | Full | Yes |

Redwood

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|-----------------------------------|----------|-------|----------|----------------------|----------|----------|
| Tiger Lake Prairie Restoration | 11335228 | 50 | \$24,000 | Yes | Full | Yes |

Renville

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--|----------|-------|-----------|----------------------|----------|----------|
| Whispering Ridge WMA Rock Outcrop Tree Removal | 11436229 | 50 | \$100,000 | Yes | Full | Yes |

Sherburne

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|------------------------|----------|-------|-----------|----------------------|----------|----------|
| USFWS Sherburne NWR | 03527229 | 8,000 | \$200,000 | Yes | Limited | No |

Stearns

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|----------|----------------------|----------|----------|
| Sauk Rapids Area Wide WMA Tree/Shrub Removal on Grasslands | 12334228 | 75 | \$17,000 | Yes | Full | Yes |
| Sauk Rapids Edward Raymond Mohs WMA Grassland Development | 12335209 | 14 | \$9,000 | Yes | Full | Yes |

Steele

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|-------------------------------|----------|-------|----------|----------------------|----------|----------|
| Somerset WMA Woody Removal | 10720229 | 80 | \$80,000 | Yes | Full | Yes |

Stevens

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------|----------|-------|-----------|----------------------|----------|----------|
| USFWS Morris | 12443212 | 8,460 | \$455,000 | Yes | Yes | No |

Todd

| Name | TRDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|-----------|----------------------|----------|----------|
| Hartford WMA Prairie Enhancement | 13033224 | 22 | \$50,500 | Yes | Full | Yes |
| Ireland WMA Grassland Enhancement | 12832227 | 20 | \$30,000 | Yes | Full | Yes |
| Kobliska Prairie Enhancement | 13132204 | 41 | \$111,000 | Yes | Full | Yes |
| Kobliska Prairie Enhancement | 13132204 | 73 | \$111,000 | Yes | Full | Yes |
| Ostendorff WMA Prairie Enhancement | 12732204 | 16 | \$31,000 | Yes | Full | Yes |
| Owen-Hinz WMA Prairie Enhancement | 12835212 | 35 | \$112,000 | Yes | Full | Yes |
| Santer WMA Prairie Enhancement | 12835202 | 51 | \$138,000 | Yes | Full | Yes |
| Santer WMA Prairie Enhancement | 12835202 | 52 | \$80,000 | Yes | Full | Yes |
| Sheets Lake WMA Prairie Enhancement | 13033209 | 20 | \$14,000 | Yes | Full | Yes |

Wabasha

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|-------------------------------------|----------|-------|---------|----------------------|----------|----------|
| McCarthy Lake WMA Native prairie | 11010235 | 4 | \$3,340 | Yes | Full | Yes |

Washington

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|--------------------------------|----------|-------|----------|----------------------|----------|----------|
| Bayport Savanna Enhancement | 02920222 | 27 | \$22,500 | Yes | Full | Yes |

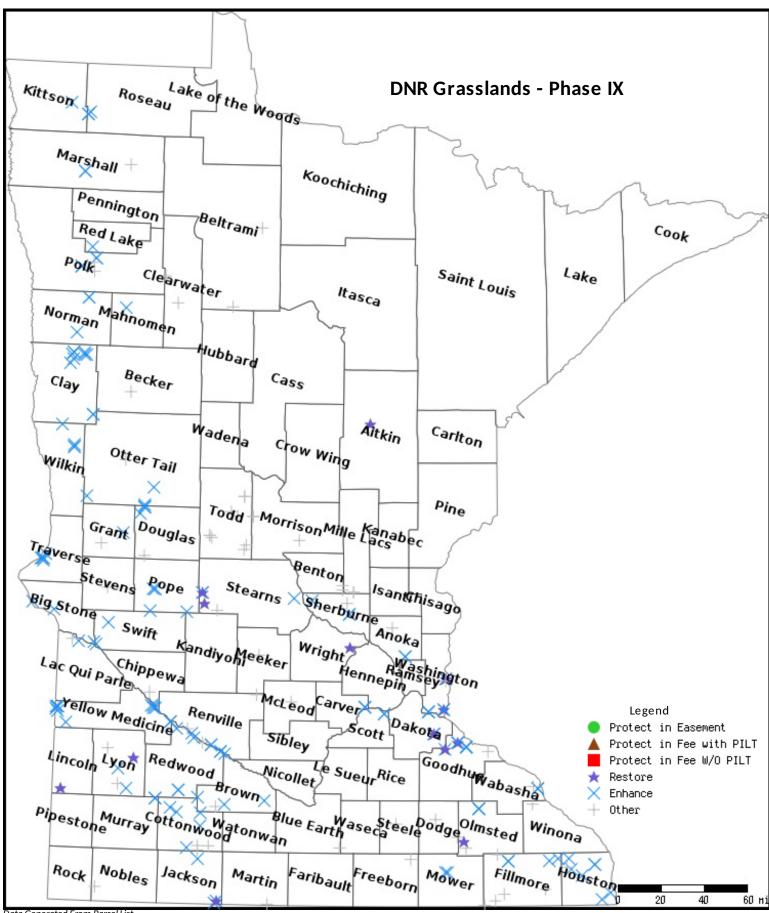
Winona

| Name | TRDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|----------------------------------|----------|-------|----------|----------------------|----------|----------|
| Whitewater Prescribed burning | 10810211 | 600 | \$22,000 | Yes | Full | Yes |

Wright

| Name | T RDS | Acres | EstCost | Existing Protection? | Hunting? | Fishing? |
|---|----------|-------|----------|----------------------|----------|----------|
| Sauk Rapids Area Wide WMA Grassland Development | 12024215 | 80 | \$26,000 | Yes | Full | Yes |

Parcel Map



DNR Grasslands Phase IX



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 99,000 acres \$13,184,800





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



Snowseeding the mix of dozens of grasses and wildflower seed.



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



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.

