

Lessard-Sams Outdoor Heritage Council

Fiscal Year 2022 / ML 2021 Request for Funding



Date: May 27, 2020

Program or Project Title: DNR Forest Enhancement (FRE01)

Funds Requested: \$3,739,300

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County Locations: Aitkin, Becker, Beltrami, Carlton, Cass, Chisago, Cook, Crow Wing, Dakota, Fillmore, Goodhue, Hennepin, Houston, Hubbard, Itasca, Kanabec, Koochiching, Lake, Lake of the Woods, Marshall, Mille Lacs, Morrison, Olmsted, Pine, Roseau, Sherburne, St. Louis, Todd, Wadena, and Winona.

Eco regions in which work will take place:

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

Activity types:

- Restore
- Enhance

Priority resources addressed by activity:

- Wetlands
- Forest
- Habitat

Abstract:

Minnesota's iconic northern forests, wetlands, and brushland habitats require management beyond basic forestry practices or at smaller scales than commercial operations work. Other enhancements, such as brushland shearing or mowing have low commercial value but high wildlife value. These additional habitat enhancements improve the quality of the forests for both wildlife and outdoor recreation. DNR's Conservation Agenda, Wildlife Action, Forest Action, SNA Strategic Land Protection and SFRMP Plans, will guide habitat enhancements in this proposal to see that all activities meet these objectives.

Design and scope of work:

Northern Minnesota's forest habitats include pines, maple and basswood, aspen, oak forests and savannas, as well as different age classes of forests. The region also includes rivers, lakes, sedge meadows, bogs, and brushland. Each of these habitats are home to a wide array with game and non-game species, and multiple Species of Greatest Conservation Need (SGCN). They provide outdoor recreation, timber products, and support local communities. They also clean and absorb water and sequester carbon. However, these forests face increasing stress from invasive species, climate change, forest loss, and fragmentation. While forest harvest is an important tool in management of our forests, we can do additional or different enhancements to maximize the diversity and productivity of these habitats for both wildlife and people. For example, timber harvest can create a wildlife opening. However other management such as

periodic mowing is needed to maintain the opening.

We will accomplish strategic and targeted enhancements through contractors to conduct activities which support healthy, diverse and resilient habitats. Activities may include 1) invasive species control, 2) firebreak development and maintenance as well as prescribed burns in fire-dependent forests, brushlands and wetlands, 3) maintaining wildlife openings 4) tree removal, girdling, brush mowing/shearing, 5) infrastructure for conservation grazing in openland and brushland habitats, 6) tree release, such as enhancing oak management for mast production, 7) forest regeneration site prep, 8) seed and acorn collection followed by broadcasting and/or drilling of seed, and 8) tree planting and protection to reforest and restore habitats, add conifer to the landscape, provide thermal cover, diversify forests, and address ash stand management.

Forest managers in Minnesota regularly work across agencies and NGOs to take a landscape view of forests. For instance, there is currently an NRCS RCPP (Regional Conservation Partnership Program) that promotes young forests for golden-winged warblers and other species that use these habitats. The people involved with this program regularly talk to DNR staff and those working for other agencies in northern Minnesota to coordinate efforts.

This request seeks funding to enhance over 15,000 acres of habitat on public lands open to hunting, primarily but not limited to, WMA, AMA, SNA and State Forest. Strategic and targeted work will be accomplished through the added capacity of contractors hired to conduct activities that support healthy, diverse and resilient habitats.

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:

Both young forests and mature forests require disturbances beyond standard timber harvest methods to maximize their benefits for wildlife. Prescribed fire in mature forests helps clear underbrush and open up the understory. Fire is especially important in oak and pine forests. Shearing brushlands maintains the low structure that species prefer in this habitat. In other cases, areas can be seeded with acorns or other seeds after a harvest to stimulate regrowth. Young forests and small forest openings are critical to many species of birds and mammals and need frequent, repeated enhancements to retain their habitat quality.

Each of the practices mentioned in the design and scope will benefit a wide range of game and non-game species, including mammals, birds, reptiles and amphibians, as well as pollinating insects.

In many cases, small-scale projects, such as forest openings, diversify the larger forest landscape and increase the abundance of wildlife well beyond the small footprint of the project.

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

Pressures on Northern Minnesota forests are increasing. It is more cost-effective to address habitat management needs now, to keep common wildlife species common and conserve SGCN, than to ignore needs. An ounce of prevention is worth a pound of cure. Current DNR plans provide the opportunity to address these habitat needs. Funding will accelerate implementation of these plans. Increased management of brushland habitats is a particularly urgent need in east-central Minnesota where sharp-tailed grouse depend upon them and have declined significantly in the past 10 years. Early detection and swift control of invasive species is also urgent.

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:

DNR's Conservation Agenda, Wildlife Action Plan, Forest Action Plan, SNA Strategic Land Protection Plan (along with specific site management plans), and Section Forest Resource Management Plans, which will guide activities, were developed using the best information and science to identify goals and strategies.

We know quite a bit about the habitat needs of many forest species, including mature forest species such as marten and fisher, and young forest species like woodcock and golden-winged warblers. We have also learned that many of the 'young forest' birds require mature forests during some parts of their life. In some cases, mature forests need enhancements such as prescribed fire to stay productive. Likewise, larger species such as deer and moose need a wide range of habitat types during the different seasons. Researchers across the eastern US have been discussing the loss of oaks from forests since the early 1990s. Lack of prescribed fire is the most often cited reason for declines in oaks in many areas. It's not enough to just have acres of forest on the landscape. The forest habitat type, age, patch size, and pattern on the landscape is probably far more important. We have the science to know what we need to do for habitat enhancement. It's usually the ability to implement that science that is the limiting factor. These dollars would allow us to apply the science to the landscape for the benefit of a wide range of wildlife species.

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

project:

- H1 Protect priority land habitats
- LU10 Support and expand sustainable practices on working forested lands

Which other plans are addressed in this proposal:

- Minnesota's Wildlife Action Plan 2015-2025
- Forest Action Plan

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

We will work with these and other plans to determine how local projects can positively affect local and regional populations of wildlife. We will develop teams within the DNR and with partner agencies to decide on and prioritize projects that have the greatest benefit within each management unit and across the larger landscape.

Which LSOHC section priorities are addressed in this proposal:

Forest / Prairie Transition:

- Protect, enhance, and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success

Northern Forest:

- Restore forest-based wildlife habitat that has experienced substantial decline in area in recent decades

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:

- Restore forest-based wildlife habitat that has experienced substantial decline in area in recent decades

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:

Because forests are always maturing and changing, enhancement work, by its very nature, is not permanent. It is significant because the enhancements described above will make the forest more diverse and wildlife more abundant. This is all compatible with a sustainable timber harvest and the ecosystem services these habitats provide. A sustainable harvest and ecosystem services are a permanent legacy.

Relationship to other funds:

- Not Listed

Describe the relationship of the funds:

Not Listed

Does this program include leverage in 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
2019	Game and Fish	24196000
2019	Dedicated Accounts	3919000
2019	Heritage Enhancement	3466000

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

We will select and implement projects to achieve high quality and enduring benefits. Projects have variable lifespans depending on project type, weather and other environmental conditions. Many of the projects are meant to endure for decades, at which point, regular forest management activity through harvest. DNR staff and staff from partner agencies/NGOs will monitor them to if and when additional enhancement are needed. Work will be sustained through internal DNR funds, commercial forest practices, and future requests from the OHF and related external funding.

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

Year	Source of Funds	Step 1	Step 2	Step 3
2024	listed above and future OHF requests	monitor results	document results	develop budget for additional work with internal and external funds
2026 and beyond	listed above and future OHF requests	continue monitoring	adapt results	seek additional funding

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

Sharp-tailed Grouse - Strategically treating an additional 1,000 acres a year of brushland habitat to sustain local leks, nesting, brood rearing and wintering habitat, could produce up to 500 additional sharp-tailed grouse over five years.

Moose - Added thermal cover and browse on up to 200 acres a year in targeted locations, through conifer planting and burning/mowing/shearing of trees and brush, could potentially support an additional ten moose over five years.

Black Bear - Strategic management for oak on up to 200 acres a year, to increase mast for wildlife, could potentially contribute up to 15 more bear over five years to the population.

Black-throated Blue Warbler - Controlling invasive species such as buckthorn from up to 200 acres of upland deciduous forest a year to maintain forest health and native plants, and support insects, may contribute up to 200 more black-throated blue warblers to the population over five years.

Ruffed Grouse - Maintaining native diversity by controlling invasive species, and planting to enhance diversity and thermal cover, on up to 200 acres a year in priority areas for ruffed grouse, such as Ruffed Grouse Management Areas, may produce up to 400 additional ruffed grouse over five years.

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 County/Municipal, Refuge Lands, State Wilderness Areas, State Forests, national forest, Con-Con lands)**

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 - **No**

Land Use:

Have you received OHF dollars in the past through LSOHC? - Yes

Past appropriations and spending to date:

Apprp Year	Approp Amount Received	Approp Amount Spent to Date	Leverage as Reported in AP/th>	Leverage Realized to Date	Total Acres Affected in AP	Total Acres Affected to Date	Program Complete and Final Report Approved?
ML20	1000000	0			30 50		

Accomplishment Timeline

Activity	Approximate Date Completed
implement enhancements	summer 20 26
continued monitoring and follow-up management and enhancements	ongoing

Budget Spreadsheet

Total Amount of Request: \$3,739,300

Budget and Cash Leverage

BudgetName	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$145,700	\$0		\$145,700
Contracts	\$3,295,900	\$0		\$3,295,900
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	\$14,800	\$0		\$14,800
Professional Services	\$0	\$0		\$0
Direct Support Services	\$63,000	\$0		\$63,000
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$1,200	\$0		\$1,200
Supplies/Materials	\$218,700	\$0		\$218,700
DNR IDP	\$0	\$0		\$0
Total	\$3,739,300	\$0	-	\$3,739,300

Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
SNA project mgt	0.04	4.00	\$13,200	\$0		\$13,200
SNA Specialists and Technicians	0.12	4.00	\$32,500	\$0		\$32,500
FOR Fire Specialists and Technicians	0.20	5.00	\$100,000	\$0		\$100,000
Total	0.36	13.00	\$145,700	\$0	-	\$145,700

Amount of Request: \$3,739,300

Amount of Leverage: \$0

Leverage as a percent of the Request: 0.00%

DSS + Personnel: \$208,700

As a % of the total request: 5.58%

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 standard DNR calculator for proposals to the OHF and ENRTF.

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:

Most of the costs will be mileage, food, and lodging. However, there is the possibility a project could use rental vehicles.

I understand and agree that lodging, meals, and mileage must comply with the current MMB Commissioner Plan: - Yes

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:

This programmatic proposal was compiled from a series of habitat projects. If funding were reduced, we would complete a subset of the proposed projects.

Has funding for these positions been requested in the past? - Yes

Please explain the overlap of past and future staffing and position levels previously received and how that is coordinated over multiple years?

This funding will be used to pay project-associated costs for staff paid almost exclusively with special project funds. These positions would not exist, but for special project funding received through the OHF and other funds. Each year these staff code time working on OHF related acquisition activities using specific funding string codes.

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0
Protect in Easement	0	0	0	0	0
Enhance	0	0	15,900	0	15,900
Total	0	0	15,900	0	15,900

Table 2. Total Requested Funding by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$3,739,300	\$0	\$3,739,300
Total	\$0	\$0	\$3,739,300	\$0	\$3,739,300

Table 3. Acres within each Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0
Enhance	795	2,385	3,180	0	9,540	15,900
Total	795	2,385	3,180	0	9,540	15,900

Table 4. Total Requested Funding within each Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$187,000	\$560,800	\$747,900	\$0	\$2,243,600	\$3,739,300
Total	\$187,000	\$560,800	\$747,900	\$0	\$2,243,600	\$3,739,300

Table 5. Average Cost per Acre by Resource Type

Type	Wetlands	Prairies	Forest	Habitats
Restore	\$0	\$0	\$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	\$0	\$235	\$0

Table 6. Average Cost per Acre by Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest
Restore	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$235	\$235	\$235	\$0	\$235

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.

Outcomes

Programs in the northern forest region:

- Healthy populations of endangered, threatened, and special concern species as well as more common species *The DNR and partner agencies conduct a number of wildlife surveys, including moose, deer, ruffed grouse, sharp-tailed grouse, woodcock, and songbird surveys.*

Programs in forest-prairie transition region:

- Protected, restored, and enhanced aspen parklands and riparian areas *A number of species are tied to brushland and young aspen forests in these region, including moose, elk, golden-winged warblers, and sharp-tailed grouse. Ongoing surveys and research on these species will allow the DNR to track local and regional responses to these and related efforts.*

Programs in metropolitan urbanizing region:

- A forest land base that contributes to the habitat picture *These efforts will help manage forests in this region to benefit a range of wildlife species, both game and non-game. Ongoing surveys, especially among songbirds, will track long-term changes in bird populations in this region.*

Programs in southeast forest region:

- Healthier populations of endangered, threatened, and special concern species as well as more common species *The non-game program is very active in this region with projects assessing timber rattlesnake and other wildlife populations. And there are the same ongoing wildlife surveys as in the other regions of the state.*

Parcel List

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

Not Listed

Section 1 - Restore / Enhance Parcel List

Aitkin

Name	TRDS	Acres	Est Cost	Existing Protection?
Aitkin WMA	0 442320 2	150	\$30,000	Yes
Aitkin WMA	0 442320 2	150	\$55,500	Yes
Aitkin WMA	0 442320 2	300	\$118,500	Yes
Aitkin WMA	0 4522231	300	\$15,000	Yes
Hill River SF	0 50 26217	21	\$10,500	Yes
Hill River SF	0 50 26219	18	\$3,600	Yes
Hill River SF	0 50 26221	6	\$1,200	Yes
Hill River SF	0 5225213	7	\$1,400	Yes
Hill River SF	0 5225213	13	\$2,600	Yes
Hill River SF	0 5225223	12	\$2,400	Yes
Hill River SF	0 5225225	17	\$3,400	Yes
Hill River SF	0 5225231	8	\$1,600	Yes
Hill River SF	0 5225236	13	\$2,600	Yes
Hill River SF	0 5226220	11	\$2,200	Yes
Hill River SF	0 5226220	20	\$4,000	Yes
Hill River SF	0 5226228	7	\$3,250	Yes
Hill River SF	0 5226228	9	\$4,500	Yes
Hill River SF	0 5226228	167	\$83,500	Yes
Hill River SF	0 5226236	4	\$800	Yes
Hill River SF	0 5226236	7	\$1,400	Yes
Outside - other Forestry-administered land	0 4725236	14	\$7,000	Yes
Outside - other Forestry-administered land	0 4725236	27	\$13,500	Yes
Ripple River WMA	0 4626232	15	\$7,350	Yes
Savanna SF	0 4923211	51	\$10,200	Yes
Savanna SF	0 4923212	14	\$2,800	Yes
Savanna SF	0 4923213	21	\$4,200	Yes
Savanna SF	0 4923214	59	\$11,800	Yes
Savanna SF	0 4923224	5	\$2,500	Yes
Savanna SF	0 50 23224	90	\$45,000	Yes
Savanna SF	0 5122216	24	\$4,800	Yes
Savanna SF	0 5123217	3	\$300	Yes
Savanna SF	0 5123217	4	\$800	Yes
Savanna SF	0 5223226	3	\$600	Yes
Savanna SF	0 5224207	33	\$6,600	Yes
Savanna SF	0 5224216	12	\$2,400	Yes
Savanna SF	0 5224219	5	\$500	Yes
Savanna SF	0 5224219	14	\$1,400	Yes
Savanna SF	0 5224222	4	\$800	Yes
Savanna SF	0 5224223	1	\$200	Yes
Savanna SF	0 5224230	1	\$100	Yes
Savanna SF	0 5224231	4	\$800	Yes
Savanna SF	0 5224231	47	\$9,400	Yes
Solana SF	0 4422217	9	\$1,800	Yes
Solana SF	0 4422219	145	\$72,500	Yes
Solana SF	0 4523220	3	\$300	Yes
Solana SF	0 4523220	5	\$1,000	Yes
Solana SF	0 4524213	112	\$56,000	Yes
Solana SF	0 4524224	4	\$800	Yes
Waukenabo SF	0 4826236	77	\$38,300	Yes
Waukenabo SF	0 4925209	19	\$3,800	Yes
Wealthwo od SF	0 4526206	35	\$17,300	Yes
Wealthwo od SF	0 4527203	21	\$10,350	Yes
Wealthwo od SF	0 4626206	3	\$1,500	Yes

Becker

Name	TRDS	Acres	Est Cost	Existing Protection?
Dinner Creek SNA	14236235	1	\$7,100	Yes
Greenwater Lake SNA	14138233	1	\$7,100	Yes
Smoky Hills SF	14037222	21	\$4,200	Yes

Beltrami

Name	TRDS	Acres	Est Cost	Existing Protection?
Beltrami Island State Forest	15537210	250	\$50,000	Yes

Carlton

Name	TRDS	Acres	Est Cost	Existing Protection?
Blackho of River WMA	04220226	550	\$750	Yes
Cloquet Valley State Forest	04919231	19	\$14,000	Yes
Fond Du Lac State Forest	04819221	1,146	\$9,738	Yes
Outside - other Forestry-administered land	04620236	71	\$14,200	Yes

Cass

Name	TRDS	Acres	Est Cost	Existing Protection?
Badoura State Forest	13532206	200	\$82,800	Yes
Farnham Lake WMA	13532218	100	\$50,000	Yes
Land OLakes SF	13926236	11	\$2,200	Yes
Land OLakes SF	14025230	2	\$400	Yes
Outside - other Forestry-administered land	13532216	2	\$400	Yes
Outside - other Forestry-administered land	13532216	6	\$1,200	Yes
Outside - other Forestry-administered land	13629216	7	\$1,400	Yes
Outside - other Forestry-administered land	13631236	22	\$4,400	Yes
Pillsbury SF	13430234	5	\$1,000	Yes
Pillsbury SF	13430235	138	\$27,600	Yes

Chisago

Name	TRDS	Acres	Est Cost	Existing Protection?
Carlos Avery WMA	03321208	71	\$35,500	Yes
Carlos Avery WMA	03321209	58	\$29,000	Yes

Cook

Name	TRDS	Acres	Est Cost	Existing Protection?
Butterwort Cliffs SNA	06101232	15	\$27,100	Yes
Caribou Falls WMA	05806236	103	\$16,860	Yes

Crow Wing

Name	TRDS	Acres	Est Cost	Existing Protection?
Birchdale WMA	13825233	200	\$92,000	Yes
Crow Wing SF	13727226	17	\$3,400	Yes
Emily SF	13826226	17	\$8,500	Yes

Dakota

Name	TRDS	Acres	Est Cost	Existing Protection?
Chimney Rock SNA	11417231	5	\$13,660	Yes

Fillmore

Name	TRDS	Acres	Est Cost	Existing Protection?
Choice WMA	10 212221	400	\$280,000	Yes
Lanesboro SF complex	10 310 220	13	\$20,000	yes
Rushford SF complex	10 40 4225	153	\$46,000	yes

Goodhue

Name	TRDS	Acres	Est Cost	Existing Protection?
Izaak Walton League WMA	10 511212	80	\$120,000	Yes

Hennepin

Name	TRDS	Acres	Est Cost	Existing Protection?
Wolsfeld Woods SNA	11823227	10	\$27,310	Yes
Wood-Rill SNA	11823236	7	\$19,100	Yes

Houston

Name	TRDS	Acres	Est Cost	Existing Protection?
Jefferson SF complex	10 10 4219	50	\$75,000	Yes
Richard J Dorer SF	10 20 4214	20	\$4,000	Yes
Richard J Dorer SF	10 20 4228	10	\$2,000	Yes
Richard J Dorer SF	10 20 4228	10	\$2,000	Yes
Richard J Dorer SF	10 40 4231	165	\$33,000	Yes
Richard J Dorer SF	10 40 7218	10	\$5,000	Yes
Richard J Dorer SF	10 40 7228	22	\$11,000	Yes
Richard J Dorer SF	10 40 7228	40	\$20,000	Yes
Vinegar Ridge SF Complex	10 40 7215	150	\$66,000	Yes

Hubbard

Name	TRDS	Acres	Est Cost	Existing Protection?
Badoura Jack Pine Woodland SNA	13932211	1	\$7,100	Yes
Badoura Jack Pine Woodland SNA	13932211	29	\$12,500	Yes
LaSalle Lake SNA	14535230	1	\$7,100	Yes
Outside - other Forestry-administered land	13935236	6	\$1,200	Yes

Itasca

Name	TRDS	Acres	Est Cost	Existing Protection?
Bowstring SF	14726218	20	\$10,000	Yes
George Washington SF	0 5923220	4	\$800	Yes
George Washington SF	0 5924216	63	\$12,600	Yes
George Washington SF	0 60 23203	32	\$6,400	Yes
George Washington SF	0 60 23221	18	\$3,600	Yes
George Washington SF	0 60 23222	5	\$1,000	Yes
Golden Anniversary SF	0 5424218	27	\$13,500	Yes
Outside - other Forestry-administered land	0 5522216	3	\$600	Yes
Outside - other Forestry-administered land	0 5522216	7	\$1,400	Yes
Outside - other Forestry-administered land	0 5522216	10	\$2,000	Yes
Outside - other Forestry-administered land	0 5927222	20	\$4,000	Yes

Kanabec

Name	TRDS	Acres	Est Cost	Existing Protection?
Outside - other Forestry-administered land	0 4123236	128	\$25,600	Yes
Snake River SF	0 4223224	6	\$1,200	Yes

Koochiching

Name	TRDS	Acres	Est Cost	Existing Protection?
Pine Island State Forest	15527203	160	\$28,000	Yes

Lake

Name	TRDS	Acres	Est Cost	Existing Protection?
Finland SF	0 5708210	20	\$4,000	Yes
Finland SF	0 5708214	19	\$3,800	Yes
Finland SF	0 5808221	20	\$10,000	Yes
Finland SF	0 5907221	38	\$7,600	Yes
Finland State Forest	0 5708209	8	\$1,500	Yes

Lake of the Woods

Name	TRDS	Acres	Est Cost	Existing Protection?
Graceton WMA	16233236	250	\$21,250	Yes
Lake of the Woods State Forest	15830219	400	\$60,000	Yes
Lake of the Woods State Forest	15931207	150	\$26,250	Yes
Lake of the Woods State Forest	15931220	150	\$26,250	Yes
Red Lake WMA	15735229	400	\$60,000	Yes

Marshall

Name	TRDS	Acres	Est Cost	Existing Protection?
Eckvold WMA	15539211	500	\$125,000	Yes

Mille Lacs

Name	TRDS	Acres	Est Cost	Existing Protection?
Four Brooks WMA	0 4027221	300	\$76,000	Yes
Mille Lacs WMA	0 4125229	10,000	\$84,000	Yes
Outside - other Forestry-administered land	0 4125207	30	\$6,000	Yes
Outside - other Forestry-administered land	0 4325236	26	\$5,200	Yes
Rum River SF	0 4026221	57	\$11,400	Yes

Morrison

Name	TRDS	Acres	Est Cost	Existing Protection?
Ereaux WMA	0 4131230	86	\$68,800	Yes
Mud Lake WMA	12931201	66	\$100,000	Yes
Rice-Skunk WMA	0 4031232	70	\$56,000	Yes

Olmsted

Name	TRDS	Acres	Est Cost	Existing Protection?
Whitewater WMA	10 610201	150	\$291,000	Yes
Whitewater WMA	10 610201	1,100	\$1,084,000	Yes

Pine

Name	TRDS	Acres	Est Cost	Existing Protection?
General Andrews SF	0 4520226	34	\$17,000	Yes

Roseau

Name	TRDS	Acres	Est Cost	Existing Protection?
Beltrami Island SF	16038214	8	\$1,600	Yes
Beltrami Island SF	16136216	4	\$800	Yes

Sherburne

Name	TRDS	Acres	Est Cost	Existing Protection?
Outside - other Forestry-administered land	03427226	5	\$500	Yes

St. Louis

Name	TRDS	Acres	Est Cost	Existing Protection?
Cloquet Valley SF	05216216	33	\$3,300	Yes
Cloquet Valley SF	05513236	29	\$2,900	Yes
Cloquet Valley SF	05514230	40	\$4,000	Yes
Cloquet Valley SF	05515216	20	\$2,000	Yes
George Washington SF	06223216	48	\$9,600	Yes
Outside - other Forestry-administered land	05215216	24	\$4,800	Yes
Outside - other Forestry-administered land	05519215	4	\$800	Yes
Outside - other Forestry-administered land	05519215	6	\$1,200	Yes
Outside - other Forestry-administered land	05619236	15	\$3,000	Yes
Outside - other Forestry-administered land	05619236	20	\$4,000	Yes
Outside - other Forestry-administered land	05717229	18	\$3,600	Yes
Outside - other Forestry-administered land	05817228	5	\$1,000	Yes
Outside - other Forestry-administered land	05817228	50	\$10,000	Yes
Outside - other Forestry-administered land	06120207	6	\$1,200	Yes
Outside - other Forestry-administered land	06121215	7	\$1,400	Yes
Sturgeon River SF	05921212	23	\$4,600	Yes
Sturgeon River SF	06021223	2	\$400	Yes
Sturgeon River SF	06120236	6	\$1,200	Yes

Todd

Name	TRDS	Acres	Est Cost	Existing Protection?
Elgin Woods WMA	12733217	109	\$71,000	Yes
Kobliska WMA	13132204	32	\$13,600	Yes
Owen-Hinz WMA	12835212	27	\$21,600	Yes
Philbrook WMA	13232202	21	\$13,000	Yes
Staples WMA	13333225	39	\$37,500	Yes

Wadena

Name	TRDS	Acres	Est Cost	Existing Protection?
Huntersville SF	13834236	12	\$2,400	Yes
Huntersville SF	13834236	18	\$3,600	Yes
North Germany WMA	13634223	80	\$30,400	Yes

Winona

Name	TRDS	Acres	Est Cost	Existing Protection?
Outside - other Forestry-administered land	10710202	61	\$12,200	Yes
Outside - other Forestry-administered land	10810210	12	\$6,000	Yes
Outside - other Forestry-administered land	10810216	8	\$4,000	Yes
Outside - other Forestry-administered land	10810217	14	\$7,000	Yes
Outside - other Forestry-administered land	10810220	14	\$2,800	Yes
Outside - other Forestry-administered land	10810229	8	\$1,600	Yes
Outside - other Forestry-administered land	10810234	59	\$11,800	Yes
Richard J Dorer SF	10605218	46	\$9,200	Yes
Richard J Dorer SF	10608223	26	\$5,200	Yes
Richard J Dorer SF	10708214	36	\$7,200	Yes
Richard J Dorer SF	10708224	15	\$3,000	Yes
Richard J Dorer SF	10809204	30	\$6,000	Yes
Richard J Dorer SF	10809204	55	\$11,000	Yes
Whitewater WMA Complex	10810212	88	\$61,600	Yes

Section 2 - Protect Parcel List

No parcels with an activity type protect.

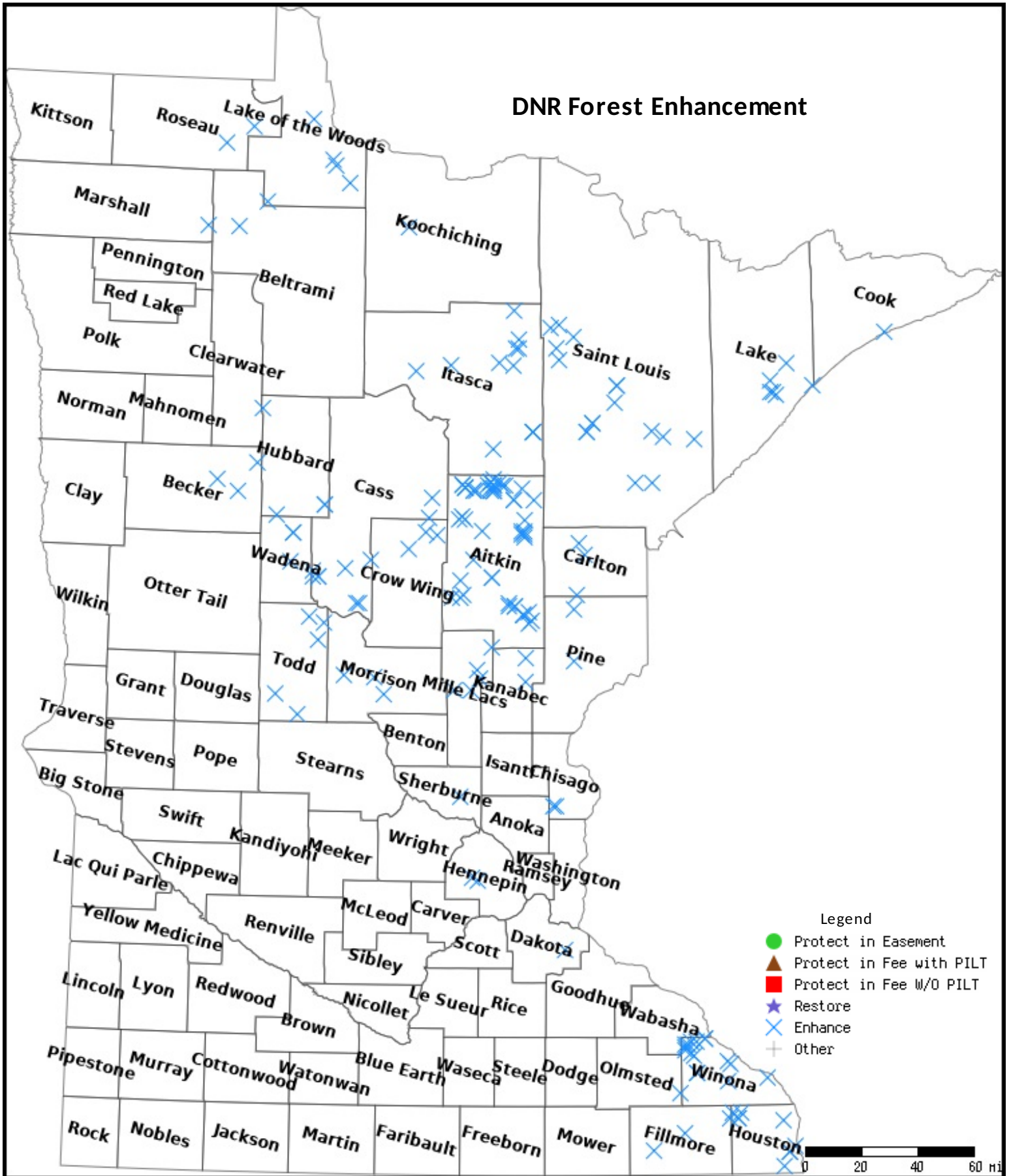
Section 2a - Protect Parcel with Bldgs

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

MN DNR Forest Enhancement

This project will:

- Proactively enhance 15,900 acres of forest and brushland habitat on public lands open to hunting, primarily Wildlife Management Areas, Aquatic Management Areas, Scientific and Natural Areas, and State Forests, from 2021 to 2026.
- Hire contractors to increase capacity to achieve management that cannot be accomplished through timber harvest, such as prescribed burns; tree planting, protection, and release; invasive species control; and brushland mowing.
- Sustain and grow healthy, diverse, and resilient habitats for Minnesota's future, benefitting native fish and wildlife populations, and citizens.



Habitat management activities will:

- Address stressors in our forest and brushland habitats, such as impacts from invasive species, climate change, and lack of management.
- Focus on projects that are large, require unique equipment, and/or more cost effective for contractors to conduct.
- Benefit an array of native fish and wildlife, including game and non-game, and several species in greatest conservation need.

