

Lessard-Sams Outdoor Heritage Council

DNR Statewide Forest Enhancement and Restoration-Phase 5
ML 2025 Request for Funding

General Information

Date: 05/28/2024

Proposal Title: DNR Statewide Forest Enhancement and Restoration-Phase 5

Funds Requested: \$7,541,700

Confirmed Leverage Funds: -

Is this proposal Scalable?: Yes

Manager Information

Manager's Name: Ted Dick
Title: Forest Habitat Supervisor

Organization: DNR

Address: 1201 East Highway 2 **City:** Grand Rapids, MN 55744-3296

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Fax Number:

Website: www.dnr.state.mn.us

Location Information

County Location(s): Olmsted, Winona, Fillmore, Mille Lacs, Morrison, Todd, St. Louis, Cass, Itasca, Pine, Carlton, Aitkin, Marshall, Pennington, Lake of the Woods, Otter Tail, Dakota, Hubbard, Wadena, Crow Wing, Lake, Koochiching and Roseau.

Eco regions in which work will take place:

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

Activity types:

- Restore
- Enhance

Priority resources addressed by activity:

- Wetlands
- Forest
- Habitat

Narrative

Abstract

Forest and brushland habitats in Minnesota require enhancement and restoration work to expand their value to wildlife and fish species. Activities such as shearing, planting to increase species diversity, and invasive species treatment increase the quality of critical wildlife habitat (e.g., deer and moose thermal habitat). This project will also benefit water quality and outdoor recreation. The DNR Conservation Agenda, Wildlife Action Plan, Forest Action Plan, Scientific and Natural Areas (SNA) Strategic Land Protection Plan, and Fish Habitat Plan will guide habitat enhancements in this proposal to meet the objectives put forth in these plans.

Design and Scope of Work

Minnesota's forest habitats include many native plant communities in different growth stages. Forests include riparian areas along rivers and lakes, upland forests, wet forests, and conifer forests. Each of these habitats are home to a wide array of game and non-game species, including multiple Species of Greatest Conservation Need (SGCN). Forests provide outdoor recreation, timber products, and support to local communities. Forests protect water quality and sequester carbon. However, forests face increasing stress from invasive species, climate change, critical habitat loss, conversion to non-forest, and fragmentation. Beyond more traditional forest management activities, some sites require vital enhancements to maximize diversity of trees, shrubs, and ground vegetation for fish and wildlife. For example, a timber harvest can create a wildlife opening; however, follow-up management such as periodic mowing or inter-seeding may be needed to maintain the opening.

A healthy, diverse forest will increase water retention and filtration and store and sequester carbon. It will also be more resilient and provide other ecosystem services. We will accomplish strategic and targeted enhancements using contractors to conduct activities that support healthy, diverse, and resilient habitats. Activities may include:

- 1) Controlling invasive vegetation, woody vegetation removal, and prescribed fire
- 2) Assisting oak regeneration through seeding and tree planting to provide important mast for forage
- 3) Maintaining wet forest ecosystems by increasing tree species diversity ahead of emerald ash borer (EAB)
- 4) Enhancing spruce budworm-damaged forest habitat by planting balsam fir and other conifer species
- 5) Establishing and tending diverse, long-lived conifer stands to provide thermal cover

DNR land managers collaborate with other state, federal, and county agencies and many conservation organizations to take a landscape view of forests and manage across administrative units. For example, DNR managers are working together with U.S. Forest Service managers to maintain and enhance vegetation to provide forage and mast for a variety of wildlife. Traditional timber harvest is an important tool for improving habitat, but the activities proposed here are in addition to logging and often require different activities to achieve habitat improvements.

This request seeks funding to enhance 10,929 acres of habitat on public lands, primarily but not limited to, Wildlife Management Areas (WMA), Aquatic Management Areas (AMA), SNAs, state forests, and county lands. Strategic and targeted work will be accomplished through the added capacity of contractors hired to conduct activities that support healthy, diverse, and resilient habitats.

Explain how the proposal addresses habitat protection, restoration, and/or enhancement for fish, game & wildlife, including threatened or endangered species conservation

All ages of forests require investment and management. Some sites, with heightened value to key wildlife and aquatic species, need additional efforts to maximize habitat benefits. Prescribed fire in mature forests helps clear underbrush and allows sunlight penetration to the ground to boost regeneration. Fire is especially important to both maintain and regenerate oak and pine forests. Shearing brushland helps create open lands that provide critical habitat for American woodcock, yellow rails, and sharp-tailed grouse, which are SGCN species. Planting conifers provides thermal cover for multiple wildlife species and creates shade and protects sources of ground water for native brook trout streams threatened by climate change. Shearing maintains brushlands for sharp-tailed grouse and provides small forest openings critical to many species of birds, including golden-winged warblers. Oak forests are important habitat and establishing and tending young oak forests will keep oak on the landscape into the future.

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

What are the elements of this proposal that are critical from a timing perspective?

Pressures on Minnesota forests are increasing. It is more effective to enhance critical habitat for wildlife species and conserve SGCN species now rather than having to restore habitat in the future. Planting trees on acres affected by large spruce budworm infestations helps to diversify forests while providing habitat for wildlife. Diversifying balsam fir forests will make them more resilient to future spruce budworm and other insect outbreaks that are predicted to increase with a warming climate. Current DNR plans provide the opportunity to address these habitat needs, and funding will accelerate implementation of these plans. Increased management of brushland habitats is a particularly urgent need. Early detection and swift control of invasive species is more cost-effective than trying to manage established and widespread invasive species populations.

Describe how the proposal expands habitat corridors or complexes and/or addresses habitat fragmentation:

DNR's Conservation Agenda, Wildlife Action Plan, Forest Action Plan, SNA Strategic Land Protection Plan (along with specific site management plans), and Fish Habitat Plan, will guide activities. These plans incorporate the best information and science to identify goals and strategies. DNR strives to base all habitat management on science. Restoring and enhancing habitat expands corridors and complexes, reduces fragmentation, and directly applies research to on the ground projects. Habitat projects that occur on SNA will enhance critical habitats identified by Minnesota County Biological Survey (MCBS).

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, are well documented. Many wildlife species require mature forests during some point in their lives. Research conducted in Minnesota will be used to apply these funds to enhance and restore habitats in the forested areas of the state.

Which top 2 Conservation Plans referenced in MS97A.056, subd. 3a are most applicable to this project?

- Minnesota's Wildlife Action Plan 2015-2025
- Outdoor Heritage Fund: A 25 Year Framework

Explain how this proposal will uniquely address habitat resilience to climate change and its anticipated effects on game, fish & wildlife species utilizing the protected or restored/enhanced habitat this proposal targets.

Diversifying ash forests builds resiliency in the forest by planting additional tree species that allows forest to be retained after EAB infests more forest throughout the state. Diversifying forests will make them more resilient to future spruce budworm and other insect outbreaks that are predicted to increase with a warming climate. Diversity builds resilience against both direct climate changes and the predicted increases in forest pests given changes in climate. Changes in climate are increasing invasive species in forests and degrading fish and wildlife habitat.

Which LSOHC section priorities are addressed in this proposal?

Forest / Prairie Transition

 Protect, restore, and enhance habitat for waterfowl, upland birds, and species of greatest conservation need

Metro / Urban

• Protect from long-term or permanent endangerment from invasive species

Northern Forest

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

Prairie

Protect, enhance, and restore remnant native prairie, Big Woods forests, and oak savanna

Southeast Forest

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

Describe how this project/program will produce and demonstrate a significant and permanent conservation legacy and/or outcomes for fish, game, and wildlife, and if not permanent outcomes, why it is important to undertake at this time:

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 resilient and will increase wildlife abundance. This is all compatible with sustainable forest management and the ecosystem services these habitats provide. A healthy, diverse forest and ecosystem are a permanent legacy.

Outcomes

Programs in forest-prairie transition region:

• Protected, restored, and enhanced nesting and migratory habitat for waterfowl, upland birds, and species of greatest conservation need ~ A number of species are tied to brushland and young aspen forests in these region, including 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 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 prairie region:

• Improved condition of habitat on public lands ~ 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:

• Large corridors and complexes of biologically diverse wildlife habitat typical of the unglaciated region are restored and protected ~ *The non-game program is very active in this region with projects assessing wildlife populations. And there are the same ongoing wildlife surveys as in the other regions of the state.*

What other dedicated funds may collaborate with or contribute to this proposal?

Arts and Cultural Heritage Fund

Per MS 97A.056, Subd. 24, Please explain 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.

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 can resume. DNR staff and staff from partner agencies/non-governmental organizations (NGOs) will monitor project sites to gauge habitat response and determine when additional enhancement may be needed. Work will be sustained through other DNR funds, forest management practices, and future requests from the OHF and related external funding.

Actions 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

Provide an assessment of how your program may celebrate cultural diversity or reach diverse communities in Minnesota, including reaching low- and moderate-income households:

We have in the past and will continue to consult and coordinate with diverse communities and tribal partners into the project planning and work we do to enhance fish and wildlife habitats for all citizens of the state of Minnesota.

Activity Details

Requirements

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 or on lands to be acquired in this program? Yes

Where does the activity take place?

- WMA
- SNA
- AMA
- State Forests
- Other: national forest, County lands, Con-Con lands, school trust lands.
- County/Municipal

Land Use

Will there be planting of any crop on OHF land purchased or restored in this program, either by the proposer or the end owner of the property, outside of the initial restoration of the land?

No

Will insecticides or fungicides (including neonicotinoid and fungicide treated seed) be used within any activities of this proposal either in the process of restoration or use as food plots?

No

Other OHF Appropriation Awards

Have you received OHF dollars through LSOHC in the past?

Yes

Are any of these past appropriations still OPEN?

Yes

Approp Year	Funding Amount	Amount Spent to	Funding Remaining	% Spent to Date
	Received	Date		
2023	\$1,496,000	\$642,907	\$853,093	42.98%
2022	\$2,172,000	\$1,020,595	\$1,151,405	46.99%
2021	\$1,338,000	\$1,318,136	\$19,864	98.52%
2020	\$1,000,000	-	-	-
Totals	\$6,006,000	\$2,981,638	\$3,024,362	49.64%

<u>Timeline</u>

Activity Name	Estimated Completion Date
implement enhancements	spring 2029
continued monitoring and follow-up management and	ongoing
enhancements	

Budget

Totals

Item	Funding Request	Total Leverage	Leverage Source	Total
Personnel	\$100,000	•	•	\$100,000
Contracts	\$6,437,200	ı	1	\$6,437,200
Fee Acquisition w/	-	-	-	-
PILT				
Fee Acquisition w/o PILT	-	-	•	-
Easement Acquisition	-	1	1	-
Easement	-	1	-	-
Stewardship				
Travel	\$15,000	1	1	\$15,000
Professional Services	-	•	•	=
Direct Support	\$91,200	1	-	\$91,200
Services				
DNR Land Acquisition	-	-	-	-
Costs				
Capital Equipment	-	-	-	-
Other	\$5,000	-	-	\$5,000
Equipment/Tools				
Supplies/Materials	\$893,300	-	1	\$893,300
DNR IDP	-	-	-	-
Grand Total	\$7,541,700	-	-	\$7,541,700

Personnel

Position	Annual FTE	Years Working	Funding Request	Total Leverage	Leverage Source	Total
Specialist/Technician	0.6	2.0	\$100,000	-	-	\$100,000

Amount of Request: \$7,541,700

Amount of Leverage: -

Leverage as a percent of the Request: 0.0%

DSS + Personnel: \$191,200

As a % of the total request: 2.54%

Easement Stewardship: -

As a % of the Easement Acquisition: -

Does this proposal have the ability to be scalable?

Yes

If the project received 50% of the requested funding

Describe how the scaling would affect acres/activities and if not proportionately reduced, why? fewer acres could be accomplished, the majority of these projects are scalable.

Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?

All costs including contracts/supplies/materials for the majority of the projects can be proportionally reduced.

If the project received 30% of the requested funding

Describe how the scaling would affect acres/activities and if not proportionately reduced, why?Number of projects and acres accomplished can be reduced accordingly to meet a 30% funding level. Fund smaller projects that do not need to be scaled down to meet funding.

Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?

All costs including contracts/supplies/materials etc. for the majority of the projects can be proportionally reduced.

Personnel

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?

Consistent with approved work plans for previous OHF appropriations that include the SNA program, this funding will be used to pay project-associated costs for classified and unclassified 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 positions are assigned work based on the particular combination of soft funding available to address priority SNA Program activities.

Contracts

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.

Travel

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 lodgingMost 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

Direct Support Services

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.

Other Equipment/Tools

Give examples of the types of Equipment and Tools that will be purchased?

Materials & supplies may include parts, tools, repair costs, and related supplies for restoration, invasives treatment, prescribed burning, etc. (primarily chainsaws, pump cans, drip torches, fire racks, pulaskis, other handtools, backpack sprayers, portable pumps & hose, personal protective equipment, herbicides, spreading oils, flagging, stakes, etc.).

Federal Funds

Do you anticipate federal funds as a match for this program?

No

Output Tables

Acres by Resource Type (Table 1)

Type	Wetland	Prairie	Forest	Habitat	Total Acres
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	10,929	0	10,929
Total	0	0	10,929	0	10,929

Total Requested Funding by Resource Type (Table 2)

Type	Wetland	Prairie	Forest	Habitat	Total Funding
Restore	-	ı	ı	ı	-
Protect in Fee with State PILT Liability	-	ı	ı	ı	=
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	1	-	-
Enhance	-	ı	\$7,541,700	ı	\$7,541,700
Total	-	•	\$7,541,700	-	\$7,541,700

Acres within each Ecological Section (Table 3)

Туре	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Acres
Restore	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0
Protect in Fee w/o State PILT Liability	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0
Enhance	0	1,109	765	0	9,055	10,929
Total	0	1,109	765	0	9,055	10,929

Total Requested Funding within each Ecological Section (Table 4)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Funding
Restore	-	•	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-	1
Protect in Fee w/o State PILT Liability	-	-	-	-	-	-
Protect in Easement	-	-	-	-	-	-
Enhance	-	\$1,797,500	\$986,500	-	\$4,757,700	\$7,541,700
Total	-	\$1,797,500	\$986,500	-	\$4,757,700	\$7,541,700

Average Cost per Acre by Resource Type (Table 5)

Type	Wetland	Prairie	Forest	Habitat
Restore	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-
Protect in Easement	-	-	-	-
Enhance	-	-	\$690	-

Average Cost per Acre by Ecological Section (Table 6)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest
Restore	-	-	-	-	-
Protect in Fee with State	-	-	-	-	
PILT Liability					
Protect in Fee w/o State	-	-	-	-	1
PILT Liability					
Protect in Easement	-	-	-	-	-
Enhance	-	\$1,620	\$1,289	-	\$525

Target Lake/Stream/River Feet or Miles

Parcels

Sign-up Criteria?

No

Explain the process used to identify, prioritize, and select the parcels on your list:

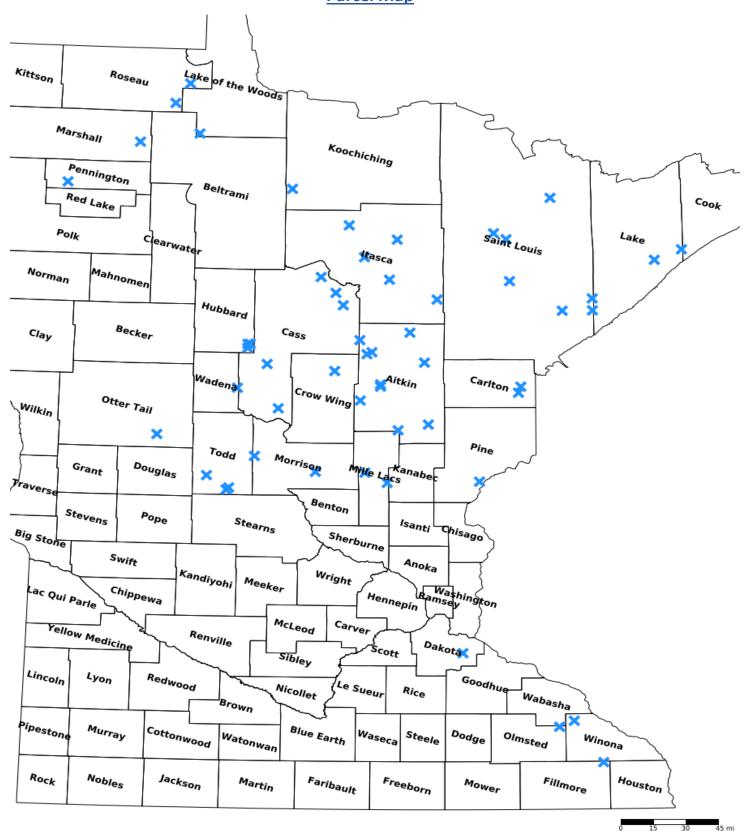
We evaluated forest habitat needs not funded through other sources, considering staff capacity from DNR Fish and Wildlife/Forestry divisions to implement and complete within grant timeline.

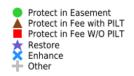
Restore / Enhance Parcels

Name	County	TRDS	Acres	Est Cost	Existing Protection	Description
Solana State Forest	Aitkin	04627216	7	\$5,175	Yes	Establishing and Protecting natural origin red pine
Aitkin WMA	Aitkin	04726202	65	\$97,500	Yes	Forest Stand Improvement
Solana State Forest	Aitkin	04423213	30	\$22,500	Yes	Increasing diversity of ash dominated wet forest
Aitkin WMA	Aitkin	04726211	1,000	\$276,000	Yes	Forest Opening Improvement
Savanna State Forest	Aitkin	05224226	23	\$17,250	Yes	Increasing diversity of ash dominated wet forest
Hill River State Forest	Aitkin	05026217	143	\$107,175	Yes	Enhance Oak
Savanna State Forest	Aitkin	04923211	64	\$48,000	Yes	Enhance Oak
Land O' Lakes State Forest	Aitkin	05127216	19	\$14,549	Yes	Enhance Oak
Hill River State Forest	Aitkin	05027224	35	\$26,250	Yes	Increasing diversity of ash dominated wet forest
Solana State Forest	Aitkin	04425236	77	\$57,750	Yes	Enhance Oak
Wrenshall WMA	Carlton	04716207	13	\$44,000	Yes	Forest Stand Improvement
Blackhoof River WMA	Carlton	04717225	85	\$18,190	Yes	Forest Opening Improvement
Bowstring State Forest	Cass	14527221	142	\$99,163	Yes	Establishing and Protecting natural origin red pine
Pillsbury State Forest	Cass	13430222	28	\$21,225	Yes	Enhancing threatened or endangered species habitat
Bowstring State Forest	Cass	14326236	59	\$44,249	Yes	Enhance Oak
Foot Hills State Forest	Cass	13831236	28	\$21,300	Yes	Enhancing threatened or endangered species habitat
Mud Goose WMA	Cass	14426233	100	\$25,000	Yes	Forest Stand Improvement
Crow Wing State Forest	Crow Wing	13726216	29	\$21,675	Yes	Enhancing threatened or endangered species habitat
Chimney Rock SNA	Dakota	11417231	90	\$185,000	Yes	Woody Removal/Prescribed Burn
Schueler WMA	Fillmore	10408203	50	\$65,000	Yes	Forest Stand Improvement
Badoura State Forest	Hubbard	13932222	21	\$15,525	Yes	Enhancing threatened or endangered species habitat
Badoura Jack Pine Woodland SNA	Hubbard	13932211	50	\$100,000	Yes	Woody Removal/Prescribed Burn
Badoura Jack Pine Woodland SNA	Hubbard	13932210	20	\$40,000	Yes	Invasive Species Control
Bowstring State Forest	Itasca	05827214	168	\$125,774	Yes	Increasing diversity of ash dominated wet forest
Golden Anniversary State Forest	Itasca	05522234	134	\$100,440	Yes	Enhance Oak
Prairie Lake Deer Yard WMA	Itasca	05625209	150	\$48,000	Yes	Forest Stand Improvement

Big Fork State Forest lasca 14925208 15 \$10,545 Yes natural origin red pine Golden Anniversary State Forest Itasca 06025236 712 \$533,779 Yes Establishing and Protecting natural origin red pine Pine Island State Forest Koochiching 15229209 38 \$28,477 Yes Increasing diversity of ash dominated wet forest Finland State Forest Lake 05906236 190 \$142,500 Yes Enhancing spruce budworm damaged forest habitat to the Voods Cloquet Valley State Forest Lake 05512236 30 \$22,500 Yes Enhancing spruce budworm damaged forest habitat to the Voods Valley WMA Lake of the Woods Valley WMA Marshall 15639220 60 \$96,000 Yes Brushland Management Groundhouse WMA Mille Lacs 03926213 50 \$65,000 Yes Forest Stand Improvement Groundhouse WMA Morrison 13031219 231 \$555,000 Yes Forest Stand Improvement Little Elk WMA Morrison 13031219 231 \$555,000 Yes Forest Stand Improvement Whitewater WMA Olmsted 10711203 400 \$500,000 Yes Forest Stand Improvement Polden Woods Marsh WMA Otter Tail 13238234 58 \$82,000 Yes Forest Stand Improvement Chengwatana State Forest Pine 03919207 750 \$355,775 Yes Forest Stand Improvement Chengwatana State Forest Roseau 16136222 18 \$27,000 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 06018216 21 \$16,049 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 0618216 21 \$16,049 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 0618216 21 \$16,049 Yes Enhance Oak Cloquet Valley State Forest St. Louis 0618216 21 \$16,049 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Group River State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Group River State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Group River Stat		ı	ı	ı		1	FTOPOSAI #. FKEUT
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Pine Island State Forest Koochiching 15229209 38 \$28,477 Yes Increasing diversity of ash dominated wet forest finland State Forest Lake 05906236 190 \$142,500 Yes Enhance Oak Finland State Forest Lake 05807230 1,078 \$916,512 Yes Enhancing spruce budworm damaged forest habitat to the company of the company							
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Finland State Forest							
Finland State Forest Lake 05906236 190 \$142,500 Yes Enhance Oak Finland State Forest Lake 05807230 1,078 \$916,512 Yes Enhancing spruce budworm damaged forest habitat Cloquet Valley State Forest Red Lake WMA Lake of the Woods Woods Valley WMA Marshall 15639220 60 \$96,000 Yes Forest Stand Improvement Groundhouse WMA Mille Lacs 03922613 50 \$65,000 Yes Forest Stand Improvement Groundhouse WMA Mille Lacs 04027221 200 \$75,000 Yes Forest Stand Improvement Little Elk WMA Morrison 13031219 231 \$555,000 Yes Forest Stand Improvement Rice-Skunk WMA Morrison 04030219 42 \$60,000 Yes Forest Stand Improvement Folden Woods Marsh WMA Olter Tail 13238234 58 \$82,000 Yes Forest Stand Improvement Highibotham WMA Pennington 15244204 100 \$110,000 Yes Forest Stand Improvement Beltrami Island State Forest Roseau 16136222 18 \$23,000 Yes Woody invasives treatment Beltrami Island State Forest St. Louis 06018216 21 \$16,049 Yes Enhance Oak Cloquet Valley State Forest St. Louis 06314217 400 \$100,000 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 06314217 400 \$100,000 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 06314217 400 \$100,000 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhance Oak Cloquet Valley State Forest St. L	Pine Island State Forest	Koochiching	15229209	38	\$28,477	Yes	9
Finland State Forest Lake O5807230 I,078 S916,512 Ves Enhancing spruce budworm damaged forest habitat Cloquet Valley State Forest Lake O5512236 S30 S22,500 Ves Increasing diversity of ash dominated wet forest Brushland Management Woods Valley WMA Marshall S1535229 Valley WMA Mille Lacs O3926213 S0 S65,000 Ves Forest Stand Improvement Four Brooks WMA Mille Lacs O4027221 D00 S75,000 Ves Forest Stand Improvement Little Elk WMA Morrison Morrison Morrison Morrison Morrison Valuey WMA Morrison Morrison Morrison Morrison Morrison Morrison Valuey WMA Morrison Mor							
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Cloquet Valley State Forest Lake 05512236 30 \$22,500 Yes Increasing diversity of ash dominated wet forest	Finland State Forest	Lake	05807230	1,078	\$916,512	Yes	
Red Lake WMA Lake of the Woods Voods Valley WMA Marshall 15639220 60 \$96,000 Yes Forest Stand Improvement Groundhouse WMA Mille Lacs 03926213 50 \$65,000 Yes Forest Stand Improvement Mille Lacs 03926213 50 \$65,000 Yes Forest Stand Improvement Four Brooks WMA Mille Lacs 04027221 200 \$75,000 Yes Forest Stand Improvement Rice-Skunk WMA Morrison Norrison Norrison Mille Lacs 04027221 200 \$75,000 Yes Forest Stand Improvement Four Brooks WMA Morrison Norrison Norris							
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Valley WMA Marshall 15639220 60 \$96,000 Yes Forest Stand Improvement Groundhouse WMA Mille Lacs 03926213 50 \$65,000 Yes Forest Stand Improvement Four Brooks WMA Mille Lacs 04027221 200 \$75,000 Yes Forest Stand Improvement Little Elk WMA Morrison 13031219 231 \$555,000 Yes Forest Stand Improvement Rice-Skunk WMA Morrison 04030219 42 \$60,000 Yes Forest Stand Improvement Rice-Skunk WMA Morrison 04030219 42 \$60,000 Yes Forest Stand Improvement Rice-Skunk WMA Morrison 04030219 42 \$60,000 Yes Forest Stand Improvement Rice-Skunk WMA Morrison 04030219 42 \$60,000 Yes Forest Stand Improvement Rice-Skunk WMA Olmsted 10711203 400 \$500,000 Yes Forest Stand Improvement Rice-Skunk WMA Olmsted 10711203 400 \$500,000 Yes Forest Stand Improvement Rice-Skunk WMA Pennington 15244204 100 \$110,000 Yes Forest Stand Improvement Rice-Skunk WMA Pennington 15244204 100 \$110,000 Yes Forest Stand Improvement Rice-Skunk WMA Pennington 15244204 100 \$110,000 Yes Forest Stand Improvement Rice-Skunk WMA Pennington 15244204 100 \$110,000 Yes Forest Stand Improvement Rice-Skunk WMA Pennington 15244204 100 \$10,000 Yes Woody invasives treatment Rice-Skunk WMA Roseau 15937210 32 \$27,000 Yes Woody invasives treatment Rice-Skunk WMA Roseau 15937210 32 \$27,000 Yes Woody invasives treatment Rice-Skunk WMA Roseau 15937210 32 \$27,000 Yes Enhance Oak Rice-Skunk WMA Roseau 15937210 32 \$27,000 Yes Enhance Oak Rice-Skunk WMA Roseau 15937210 32 \$27,000 Yes Roseau Ro							dominated wet forest
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Groundhouse WMA Mille Lacs 03926213 50 \$65,000 Yes Forest Stand Improvement Four Brooks WMA Mille Lacs 04027221 200 \$75,000 Yes Forest Stand Improvement Little Elk WMA Morrison 13031219 231 \$555,000 Yes Forest Stand Improvement Rice-Skunk WMA Morrison 04030219 42 \$60,000 Yes Forest Stand Improvement Wiltewater WMA Olmsted 10711203 400 \$500,000 Yes Forest Stand Improvement Folden Woods Marsh WMA Otter Tail 13238234 58 \$82,000 Yes Forest Stand Improvement Higinbotham WMA Pennington 15244204 100 \$110,000 Yes Forest Stand Improvement Chengwatana State Forest Roseau 16136222 18 \$23,000 Yes Forest Stand Improvement Beltrami Island State Forest Roseau 15937210 32 \$27,000 Yes woody invasives treatment Sturgeon River State Forest St. Louis 06018216 21 \$16,049 Yes woody invasives treatment Sturgeon River State Forest St. Louis 06017232 70 \$52,500 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 06314217 400 \$100,000 Yes Forest Stand Improvement St. Louis 0541236 650 \$275,525 Yes Forest Stand Improvement St. Louis 06017232 70 \$52,500 Yes Establishing and Protecting natural origin red pine Burntside State Forest St. Louis 05412236 268 \$228,139 Yes Establishing and Protecting natural origin red pine Cloquet Valley State Forest St. Louis 0541236 268 \$228,139 Yes Establishing and Protecting natural origin red pine Cloquet Valley State Forest St. Louis 0541236 268 \$228,139 Yes Enhancing spruce budworm damaged forest habitat Owen-Hinz WMA Todd 12835212 27 \$21,600 Yes Brushland Management Grey Eagle WMA Todd 12733209 482 \$780,000 Yes Forest Stand Improvement Elgin Woods WMA Todd 12733217 109 \$71,000 Yes Enhancing threatened or endangered species habitat		Woods					
Four Brooks WMAMille Lacs04027221200\$75,000YesForest Stand ImprovementLittle Elk WMAMorrison13031219231\$555,000YesForest Stand ImprovementRice-Skunk WMAMorrison0403021942\$60,000YesForest Stand ImprovementWhitewater WMAOlmsted10711203400\$500,000YesForest Stand ImprovementFolden Woods Marsh WMAOtter Tail1323823458\$82,000YesForest Stand ImprovementHiginbotham WMAPennington15244204100\$110,000YesForest Stand ImprovementChengwatana State ForestPine03919207750\$355,775YesForest Stand ImprovementBeltrami Island State ForestRoseau1613622218\$23,000Yeswoody invasives treatmentBeltrami Island State ForestRoseau1593721032\$27,000Yeswoody invasives treatmentSturgeon River State ForestSt. Louis0601821621\$16,049YesEnhance OakCloquet Valley State ForestSt. Louis06314217400\$100,000YesEstablishing and Protecting natural origin red pineBurntside State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatOwen-Hinz WMATodd12733209482 <td< td=""><td>Valley WMA</td><td>Marshall</td><td>15639220</td><td>60</td><td>\$96,000</td><td>Yes</td><td>Forest Stand Improvement</td></td<>	Valley WMA	Marshall	15639220	60	\$96,000	Yes	Forest Stand Improvement
Little Elk WMAMorrison13031219231\$555,000YesForest Stand ImprovementRice-Skunk WMAMorrison0403021942\$60,000YesForest Stand BurnsWhitewater WMAOlmsted10711203400\$500,000YesForest Stand ImprovementFolden Woods Marsh WMAOtter Tail1323823458\$82,000YesForest Stand ImprovementHiginbotham WMAPennington15244204100\$110,000YesForest Stand ImprovementChengwatana State ForestPine03919207750\$355,775YesForest Stand ImprovementBeltrami Island State ForestRoseau1613622218\$23,000Yeswoody invasives treatmentBeltrami Island State ForestRoseau1593721032\$27,000Yeswoody invasives treatmentSturgeon River State ForestSt. Louis0601821621\$16,049YesEnhance OakCloquet Valley State ForestSt. Louis05414236650\$275,525YesForest Stand ImprovementSturgeon River State ForestSt. Louis06314217400\$100,000YesEstablishing and Protecting natural origin red pineBurntside State ForestSt. Louis0561721620\$14,000YesForest/Non-DNR Public LandsCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatCloquet Valley State ForestSt. Louis05412236268	Groundhouse WMA	Mille Lacs	03926213	50	\$65,000	Yes	Forest Stand Improvement
Rice-Skunk WMAMorrison0403021942\$60,000YesForest Stand BurnsWhitewater WMAOlmsted10711203400\$500,000YesForest Stand ImprovementFolden Woods Marsh WMAOtter Tail1323823458\$82,000YesForest Stand ImprovementHiginbotham WMAPennington15244204100\$110,000YesForest Stand ImprovementChengwatana State ForestPine0391207750\$355,775YesForest Stand ImprovementBeltrami Island State ForestRoseau1613622218\$23,000Yeswoody invasives treatmentBeltrami Island State ForestRoseau1593721032\$27,000Yeswoody invasives treatmentSturgeon River State ForestSt. Louis0601821621\$16,049YesEnhance OakCloquet Valley State ForestSt. Louis05414236650\$275,525YesForest Stand ImprovementSturgeon River State ForestSt. Louis0601723270\$52,500YesEstablishing and Protecting natural origin red pineBurntside State ForestSt. Louis0561721620\$14,000YesEstablishing and Protecting natural origin red pineCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatCloquet Valley State	Four Brooks WMA	Mille Lacs	04027221	200	\$75,000	Yes	Forest Stand Improvement
Whitewater WMAOlmsted10711203400\$500,000YesForest Stand ImprovementFolden Woods Marsh WMAOtter Tail1323823458\$82,000YesForest Stand ImprovementHiginbotham WMAPennington15244204100\$110,000YesForest Stand ImprovementChengwatana State ForestPine03919207750\$355,775YesForest Stand ImprovementBeltrami Island State ForestRoseau1613622218\$23,000Yeswoody invasives treatmentBeltrami Island State ForestRoseau1593721032\$27,000Yeswoody invasives treatmentSturgeon River State ForestSt. Louis0601821621\$16,049YesEnhance OakCloquet Valley State ForestSt. Louis05414236650\$275,525YesForest Stand ImprovementSturgeon River State ForestSt. Louis06314217400\$100,000YesEstablishing and Protecting natural origin red pineBurntside State ForestSt. Louis0561721620\$14,000YesEstablishing and Protecting natural origin red pineCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatOwen-Hinz WMATodd12733209482\$780,000YesForest Stand ImprovementElgin Woods WMA	Little Elk WMA	Morrison	13031219	231	\$555,000	Yes	Forest Stand Improvement
Folden Woods Marsh WMA Pennington 13238234 58 \$82,000 Yes Forest Stand Improvement	Rice-Skunk WMA	Morrison	04030219	42	\$60,000	Yes	Forest Stand Burns
Higinbotham WMA Pennington 15244204 100 \$110,000 Yes Forest Stand Improvement Chengwatana State Forest Pine 03919207 750 \$355,775 Yes Forest Stand Improvement Beltrami Island State Forest Roseau 16136222 18 \$23,000 Yes woody invasives treatment Beltrami Island State Forest Roseau 15937210 32 \$27,000 Yes woody invasives treatment Sturgeon River State Forest St. Louis 06018216 21 \$16,049 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 06017232 70 \$52,500 Yes Establishing and Protecting natural origin red pine Burntside State Forest St. Louis 06314217 400 \$100,000 Yes Forest/Non-DNR Public Lands Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhancing spruce budworm damaged forest habitat Owen-Hinz WMA Todd 12835212 27 \$21,600 Yes Forest Stand Improvement Grey Eagle WMA Todd 12733209 482 \$780,000 Yes Forest Stand Improvement Elgin Woods WMA Todd 12733217 109 \$71,000 Yes Forest Stand Improvement Enhancing threatened or endangered species habitat	Whitewater WMA	Olmsted	10711203	400	\$500,000	Yes	Forest Stand Improvement
Chengwatana State ForestPine03919207750\$355,775YesForest Stand ImprovementBeltrami Island State ForestRoseau1613622218\$23,000Yeswoody invasives treatmentBeltrami Island State ForestRoseau1593721032\$27,000Yeswoody invasives treatmentSturgeon River State ForestSt. Louis0601821621\$16,049YesEnhance OakCloquet Valley State ForestSt. Louis05414236650\$275,525YesForest Stand ImprovementSturgeon River State ForestSt. Louis0601723270\$52,500YesEstablishing and Protecting natural origin red pineBurntside State ForestSt. Louis06314217400\$100,000YesForest/Non-DNR Public LandsCloquet Valley State ForestSt. Louis0561721620\$14,000YesEstablishing and Protecting natural origin red pineCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatOwen-Hinz WMATodd1283521227\$21,600YesBrushland ManagementGrey Eagle WMATodd12733209482\$780,000YesForest Stand ImprovementElgin Woods WMATodd12733217109\$71,000YesForest Stand BurnsLyons State ForestWadena1363323622\$16,875YesEnhancing threatened or endangered species habitat	Folden Woods Marsh WMA	Otter Tail	13238234	58	\$82,000	Yes	Forest Stand Improvement
Beltrami Island State Forest Roseau 16136222 18 \$23,000 Yes woody invasives treatment Beltrami Island State Forest Roseau 15937210 32 \$27,000 Yes woody invasives treatment Sturgeon River State Forest St. Louis 06018216 21 \$16,049 Yes Enhance Oak Cloquet Valley State Forest St. Louis 05414236 650 \$275,525 Yes Forest Stand Improvement Sturgeon River State Forest St. Louis 06017232 70 \$52,500 Yes Establishing and Protecting natural origin red pine Burntside State Forest St. Louis 06314217 400 \$100,000 Yes Forest/Non-DNR Public Lands Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Establishing and Protecting natural origin red pine Cloquet Valley State Forest St. Louis 05412236 268 \$228,139 Yes Enhancing spruce budworm damaged forest habitat Owen-Hinz WMA Todd 12835212 27 \$21,600 Yes Brushland Management Grey Eagle WMA Todd 12733209 482 \$780,000 Yes Forest Stand Improvement Elgin Woods WMA Todd 12733217 109 \$71,000 Yes Forest Stand Burns Lyons State Forest Wadena 13633236 22 \$16,875 Yes Enhancing threatened or endangered species habitat	Higinbotham WMA	Pennington	15244204	100	\$110,000	Yes	Forest Stand Improvement
Beltrami Island State Forest Sturgeon River State Forest St. Louis O6018216 Cloquet Valley State Forest St. Louis Sturgeon River State Forest St. Louis St.	Chengwatana State Forest	Pine	03919207	750	\$355,775	Yes	Forest Stand Improvement
Sturgeon River State ForestSt. Louis0601821621\$16,049YesEnhance OakCloquet Valley State ForestSt. Louis05414236650\$275,525YesForest Stand ImprovementSturgeon River State ForestSt. Louis0601723270\$52,500YesEstablishing and Protecting natural origin red pineBurntside State ForestSt. Louis06314217400\$100,000YesForest/Non-DNR Public LandsCloquet Valley State ForestSt. Louis0561721620\$14,000YesEstablishing and Protecting natural origin red pineCloquet Valley State ForestSt. Louis05412236268\$228,139YesEnhancing spruce budworm damaged forest habitatOwen-Hinz WMATodd1283521227\$21,600YesBrushland ManagementGrey Eagle WMATodd12733209482\$780,000YesForest Stand ImprovementElgin Woods WMATodd12733217109\$71,000YesForest Stand BurnsLyons State ForestWadena1363323622\$16,875YesEnhancing threatened or endangered species habitat	Beltrami Island State Forest	Roseau	16136222	18	\$23,000	Yes	woody invasives treatment
Cloquet Valley State Forest St. Louis O6017232 T0 St. Louis St. Lo	Beltrami Island State Forest	Roseau	15937210	32	\$27,000	Yes	woody invasives treatment
Sturgeon River State Forest Burntside State Forest St. Louis O6314217 O5314217 St. Louis O5617216 Cloquet Valley State Forest St. Louis O5617216 Cloquet Valley State Forest St. Louis O5412236 O	Sturgeon River State Forest	St. Louis	06018216	21	\$16,049	Yes	Enhance Oak
Sturgeon River State Forest Burntside State Forest St. Louis O6314217 O5314217 St. Louis O5617216 Cloquet Valley State Forest St. Louis O5617216 Cloquet Valley State Forest St. Louis O5412236 O	Cloquet Valley State Forest	St. Louis	05414236	650	\$275,525	Yes	Forest Stand Improvement
Burntside State Forest St. Louis Cloquet Valley State Forest St. Louis St.	Sturgeon River State Forest	St. Louis	06017232	70		Yes	Establishing and Protecting
Cloquet Valley State Forest St. Louis Os412236 St. Louis Owen-Hinz WMA Todd 12835212 Todd 12733209 Todd 12733209 Todd 12733217							natural origin red pine
Cloquet Valley State Forest Cloquet Valley State Forest St. Louis Cloquet Valley State Forest St. Louis Cloquet Valley State Forest St. Louis O5412236 St. Louis O4412236 St. Louis O441	Burntside State Forest	St. Louis	06314217	400	\$100,000	Yes	Forest/Non-DNR Public
Cloquet Valley State Forest St. Louis Owen-Hinz WMA Todd 12835212 Todd 127 St. Louis Forey Eagle WMA Todd 12733209 Todd 12733217							Lands
Cloquet Valley State Forest St. Louis Os412236 St. Louis St. Louis Owen-Hinz WMA Todd 12835212 Todd 127 St. Louis Owen-Hinz WMA Todd 12835212 Todd 12733209 Todd 12733209 Todd 12733217	Cloquet Valley State Forest	St. Louis	05617216	20	\$14,000	Yes	Establishing and Protecting
Owen-Hinz WMA Todd 12835212 27 \$21,600 Yes Brushland Management Grey Eagle WMA Todd 12733209 482 \$780,000 Yes Forest Stand Improvement Elgin Woods WMA Todd 12733217 109 \$71,000 Yes Forest Stand Burns Lyons State Forest Wadena 13633236 22 \$16,875 Yes Enhancing threatened or endangered species habitat							natural origin red pine
Owen-Hinz WMATodd1283521227\$21,600YesBrushland ManagementGrey Eagle WMATodd12733209482\$780,000YesForest Stand ImprovementElgin Woods WMATodd12733217109\$71,000YesForest Stand BurnsLyons State ForestWadena1363323622\$16,875YesEnhancing threatened or endangered species habitat	Cloquet Valley State Forest	St. Louis	05412236	268	\$228,139	Yes	Enhancing spruce budworm
Grey Eagle WMA Todd 12733209 482 \$780,000 Yes Forest Stand Improvement 12733217 109 Todd 12733217 109 1273321							damaged forest habitat
Grey Eagle WMA Todd 12733209 482 \$780,000 Yes Forest Stand Improvement Elgin Woods WMA Todd 12733217 109 \$71,000 Yes Forest Stand Burns Lyons State Forest Wadena 13633236 22 \$16,875 Yes Enhancing threatened or endangered species habitat	Owen-Hinz WMA	Todd	12835212	27	\$21,600	Yes	
Lyons State Forest Wadena 13633236 22 \$16,875 Yes Enhancing threatened or endangered species habitat	Grey Eagle WMA	Todd	12733209	482	\$780,000	Yes	
Lyons State Forest Wadena 13633236 22 \$16,875 Yes Enhancing threatened or endangered species habitat	Elgin Woods WMA	Todd	12733217	109	\$71,000	Yes	Forest Stand Burns
endangered species habitat	Lyons State Forest	Wadena	13633236	22		Yes	Enhancing threatened or
Whitewater WMA Winona 10810222 225 \$225,000 Yes Forest Stand Improvement							endangered species habitat
	Whitewater WMA	Winona	10810222	225	\$225,000	Yes	Forest Stand Improvement

Parcel Map





DNR Statewide Forest Enhancement and Restoration- Phase 5

This project will:

- Proactively enhance 10,929 acres of forest habitat on public lands open to hunting or fishing; primarily Wildlife Management Areas and State Forests.
- Hire contractors to increase capacity to achieve large scale habitat improvements, such as tree planting and seeding; threatened/endangered species habitat improvement; invasive species control; prescribed burns; regenerating brushlands; and enhancing habitat affected by forest pests.
- Sustain and grow healthy, diverse, and resilient habitats for Minnesota's future, benefitting wildlife
 populations and citizens.











Habitat management activities will:

- Address stressors in our forest such as impacts from invasive species, forest pests such as emerald ash borer and spruce budworm, climate change, loss of oak and winter cover, and lack of management.
- Enhance habitat for threatened or endangered species.
- Focus on larger projects that require unique equipment, and/or are 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.













