

Lessard-Sams Outdoor Heritage Council

**FY 2010
Accomplishment Plan and Site List**

Project or Program Title: Accelerated Prairie Grassland Restoration and Management (P13)

Date: 9/15/2009

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Funds Recommended (\$000s)	Council Recommendation Funding	Out-Year Projections of Needs		
	FY 2010	FY 2011	FY 2012	FY 2013
Outdoor Heritage Fund	1,700,000	2,000,000	2,000,000	2,000,000

Summary This program will complete the initial WMA site development on 1,500 acres of land acquired in the Accelerated Prairie Grassland WMA and Accelerated Wetland WMA Acquisition programs to meet standards for inclusion in the Outdoor Recreation System. This program will also accelerate the restoration, enhancement and management of at least 5,180 acres of native prairie vegetation on existing public lands including a priority roadside corridor under MNDOT ownership. Prairie restoration efforts include site preparation, seeding of local ecotype seed, post-seeding management to assure success, and seed harvest of local ecotype seed for prairie restoration at other public land sites. Prairie management efforts will include prescribed burning, managing woody cover encroachment, mowing and interseeding of diverse grass and forb species.

Background

Native grasslands are a rarity in Minnesota, less than one percent remains. Prairie ecosystems have evolved with fire disturbance, and much of the prairie vegetation and prairie obligate wildlife species depend upon it. Grassland birds, for example, have had a steeper more consistent and widespread population declines than any other group of North American avifauna. Prairie ecosystems are also threatened by the encroachment and dominance of woody species and exotic plants.

Since settlement, most prairie sites in the targeted areas have not been exposed to natural ecological processes (such as fire and grazing) needed for sustaining or enhancing prairie plant communities. Furthermore, many existing grassland sites on state-owned public lands need to be restored to native prairie vegetation to improve wildlife habitat and reduce long-term maintenance costs. Creation of accelerated prairie management teams would address a long-standing “back log” of management needs by implementing intensive prairie stewardship practices.

Although Minnesota DNR has the training and know-how to restore and manage high quality prairie vegetation currently funding has been insufficient to meet all needs. Minnesota DNR manages over 450,000 acres of grasslands and many sites on public lands are currently not being actively managed to realize full potential as a plant community or wildlife habitat. Re-establishing prairie on public lands requires periodic burning, inter-seeding grasslands with native species, and up to five years post-seeding management. Some state-owned grasslands consist of monotypic fields of brome that have low habitat values. Furthermore exotic and/or invasive plants are encroaching into them. Newly acquired areas and state-owned marginal croplands also need to be seeded and treated. Using high quality seed from established prairie sites to plant at other locations has proven to be highly cost-effective.

Managing and enhancing existing prairie vegetation on public lands requires periodic burning, grazing, and/or mowing. Woody cover encroachment is an especially troublesome problem that must be addressed. Removing trees and brush will be a major emphasis of this program at a cost of between \$5 and \$8 per tree - larger trees (> 20 feet tall) cost significantly more to remove than smaller trees. Prairie enhancement work is done during primarily in early spring, fall, and winter.

The Roadsides for Wildlife Program has been improving grassland habitat along Minnesota roadsides since 1984. On average, the DNR seeds native prairie on 50-300 acres of roadsides a year at 5-20 sites, typically on county and township roadsides. In contrast, Iowa seeds approximately 3,000 acres a year. The DNR will continue to work with counties and townships but will also accelerate seeding on state-owned highway right-of-ways (ROW). Most of Minnesota's roadsides are presently dominated by smooth brome (a non-native grass) and are vectors of invasive species and disease. Native grasses and wildflowers are more beneficial to pollinators and wildlife.

New WMA Initial Site Development 1,500 acres \$300,000

New lands acquired through the Accelerated Prairie Grassland WMA and Accelerated Wetland WMA Acquisition programs (see site list for these programs) will require initial site development to make them functional WMAs. This initial development will include restoring bare ground to a diverse mix of native grasses and plants, surveying and signing the boundaries and developing user facilities to protect them from encroachment and uncontrolled intrusion, removing building and refuse sites and restoring to native vegetation, and closing all wells and septic systems to protect ground water integrity.

Roadsides for Wildlife 150 acres \$225,000

DNR will partner with Mn/DOT to plant native prairie along I-35 beginning at the Iowa border and extending the full width of the road corridor for five miles. Mn/DOT will do some site prep in 2009 and then a contractor will finish up site prep and do the planting next spring. The contractor will also perform mowing and spot spraying as needed throughout the 2010 growing season. This area is on state owned Mn/DOT ROW and will showcase a diverse roadside planting. This five-mile stretch of road is highly visible as a major entry point to the state of Minnesota and the southern end of Minnesota's portion of the National Prairie Passage.

Prairie Restoration and Management \$1,411,000 5,029 acres (2,154 additional acres as budget allows)

The primary focus of this program encompasses 157 projects on 5,029 acres benefitting over 11,500 acres of planted and native grasslands. The attached spreadsheet lists 157 projects that will be completed in 2 years or less with a total projected cost of \$1.14 m. An additional 53 projects that will require 3 years or more to complete have been identified as reserve sites. The one and two year projects will be first priority. Should budgets allow additional work we would move down the list and begin implementation of longer duration projects. In these instances DNR will most likely submit subsequent phases in future years for additional funding so the projects can be completed.

Conservation Delivery

Grassland restoration work will be primarily through seeding either bare ground (e.g newly acquired agricultural fields) or old-field habitat (e.g. smooth brome). Techniques for this work include site preparation such as mowing, spraying or burning when necessary; direct seeding and aerial seeding (along some roadsides). Seed will be obtained from vendors of local seed and harvested from native or restored prairie to supplement when needed. Projects will be designed and managed by DNR personnel (except ROW projects which will be managed by DOT). Contract vendors will be used to the greatest extent possible although DNR staff may perform some work when suitable contractors are not available.

Grassland management and enhancement work uses a number of techniques to reinvigorate or increase diversity of existing prairie type grasslands. Without periodic disturbance such as burning, mowing or grazing, grasslands decline in vigor and species diversity over time. This portion of the project is designed to mimic natural disturbance, supplement species diversity when necessary and increase stand vigor. Techniques that will be employed include brush removal, chemical treatment, mowing, inter-seeding and burning. Again contractors will be used to the greatest extent possible except in the case of burning.

Relationship to the *Minnesota Conservation and Preservation Plan* and Other Published Resource Management Plans

- **Minnesota Conservation and Preservation Plan, 2008** – Page 63 and 66, identifies prairie and savannahs as critical lands areas in need of management and protection.
- **MDNR Directions for Natural Resources, 2000** – page 19, 22, and 24
- **A Vision for Wildlife and its Use – Goals and Outcomes 2003 – 2013** DNR - Acquire, develop, and maintain WMAs for wildlife habitat, public hunting, and wildlife observation (page 26).
- **Long Range Plan for the Ring-necked Pheasant in Minnesota, 2005.**
- **Roadsides for Wildlife Management Plan** – Page 86 action 3: “Should additional funds become available ...a Roadside for Wildlife/Roadside Vegetation technician should be placed in each of the eight Mn/DOT district stations.” – Page 92 action items 24-26 include: Brome grass conversion/not-till drilling; erosion control aerial seeding; and develop a showcase demonstration roadside.
- **Mn/DOT Best Practices Handbook for Roadside Vegetation Management** – This document is devoted to improving vegetation along roadsides. Chapter 4 describes in detail the many benefits of using native prairie plants in roadsides.
- **Tomorrow’s Habitat for the Wild and Rare** Habitat restoration and protection page 38
- **Minnesota Calling** Habitat loss page 23-24
- **Duck Recovery Plan** Habitat restoration and protection pages 2-4

Budget

Budget Item	Fiscal Year 10	Fiscal Year 11	Fiscal Year 12
Personnel	20,000	40,000	
Contracts	817,000	817,000	
Equipment/Tools/Supplies	0		
Fee Acquisition	0		
Easement Acquisition	0		
Easement Stewardship	0		
Travel	3,000	3,000	
Additional Budget Items	0		
TOTAL	840,000	860,000	

Personnel Details

Title	Name	Amount.
Contract Specialist (Unclassified part-time)		\$60,000

Leverage

Source of Leverage	Fiscal Year 10	Fiscal Year 11	Fiscal Year 12
TOTAL			

Accomplishments:

Table 1 Accomplishments	Habitats for Fish, Game and Wildlife		
	Wetlands	Prairies	Forests
Restore		Restore 1,010 acres	
Protect		Protect 1,500	
Enhance		Enhance 4,170 acres	

Table 2 Recommend Fund Allocation	Habitats for Fish, Game and Wildlife		
	Wetlands	Prairies	Forests
Restore		\$550,420	
Protect		\$300,000	
Enhance		\$849,580	

Table 3 Counties Impacted				Habitats for Fish, Game and Wildlife
	Wetlands	Prairies	Forests	
Restore		<i>Kittson, Marshall, Red Lake, Polk, Norman, Mahnomen, Clay, Becker, Todd, Wilkin, Otter Tail, Traverse, Grant, Douglas, Big Stone, Stevens, Pope, Swift, Lac qui Parle, Stearns, Kandiyohi, Meeker, Chippewa, Yellow Medicine, Renville, McLeod, Sibley, Nicollet, Brown, Redwood, Lyon, Lincoln, Yellow Medicine, Pipestone, Murray, Cottonwood, Watonwan, Blue Earth, Waseca, Freeborn, Faribault, Martin, Jackson, Nobles, Rock, Clearwater, Morrison, Benton, Sherburne, Wright, Isanti, Chisago, Anoka, Washington, Isanti, Hennepin, Ramsey, Hennepin, Carver, Scott, Dakota, Goodhue, Wagasha, Rice, Le Sueur, Dodge, Olmstead, Winona, Mower, Fillmore, Houston, Kanabec,</i>		
Protect		Same as above		
Enhance		Same as above		

Table 4 Non-State Leverage \$				Habitats for Fish, Game and Wildlife
	Wetlands	Prairies	Forests	
Restore		\$0		
Protect		\$0		
Enhance		\$0		

Table 5 Acquisition Data				Habitats for Fish, Game and Wildlife
	Wetlands	Prairies	Forests	
Acquired in Fee with State PILT Liability		0		
Acquired in Fee without State PILT Liability		0		
Permanent Easement		0		

Accomplishment Time Table

Milestone	Date	Measure
Identify prairie for restoration/ enhancement	October 30, 2009	6,680 acres
Complete initial prairie restoration/ enhancements	December 31, 2010	6,680 acres
Complete follow up management for restorations	December 31, 2011	2000 acres

Relationship to Your Current Budget

This work will be a significant acceleration of what we normally do on public land prairie management work.

DNR wildlife spent the following on prairie management activities on public land in FY08 using state crews and equipment:

Prairie grassland management	\$814, 432 – 6,486 acres
Prescribed burns	\$721,808 - 21,009 acres

Existing DNR staff will be used to identify work sites, assist with technical guidance on site-specific BMPs, and complete work site inspections and reports.

How Will the Habitat Improvements Be Sustained?

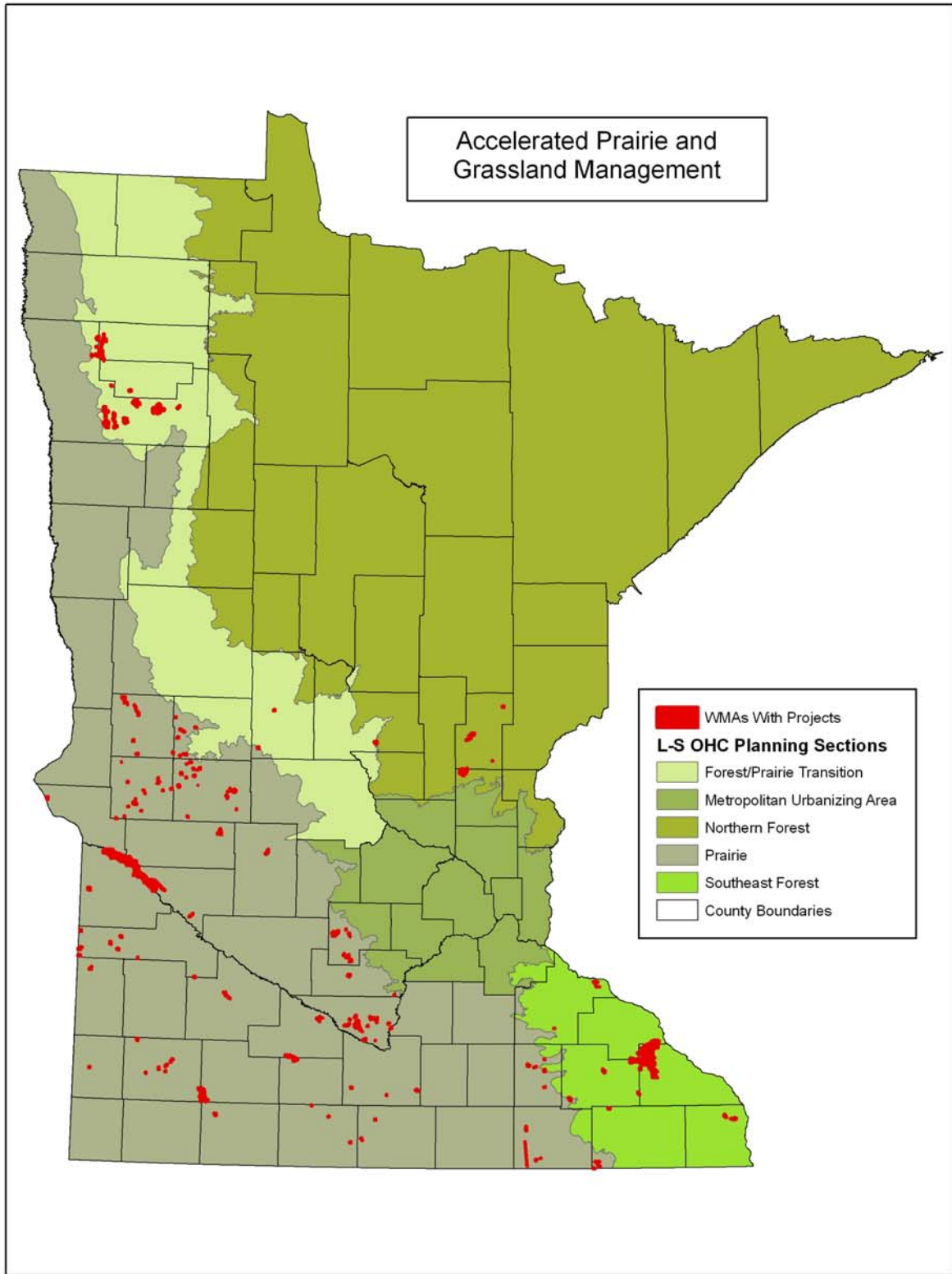
These restorations and enhancements will occur on public lands (primarily Wildlife Management Areas) which are owned in fee title by the state. Long-term maintenance will be incorporated into DNR's regular planning and maintenance schedule.

Attach:

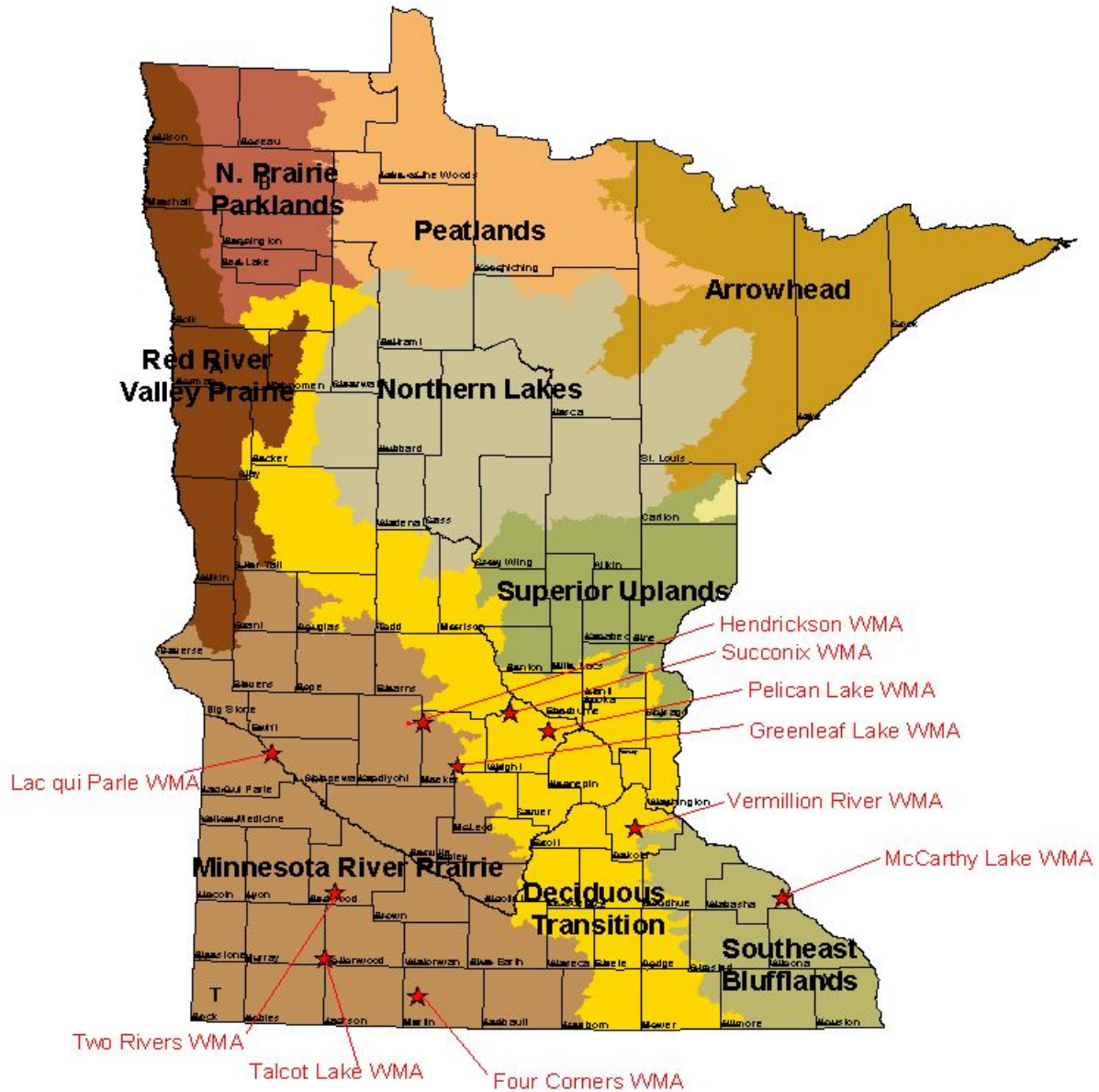
Site map.

Specific site list attached including alternate opportunities as time and budget allow.

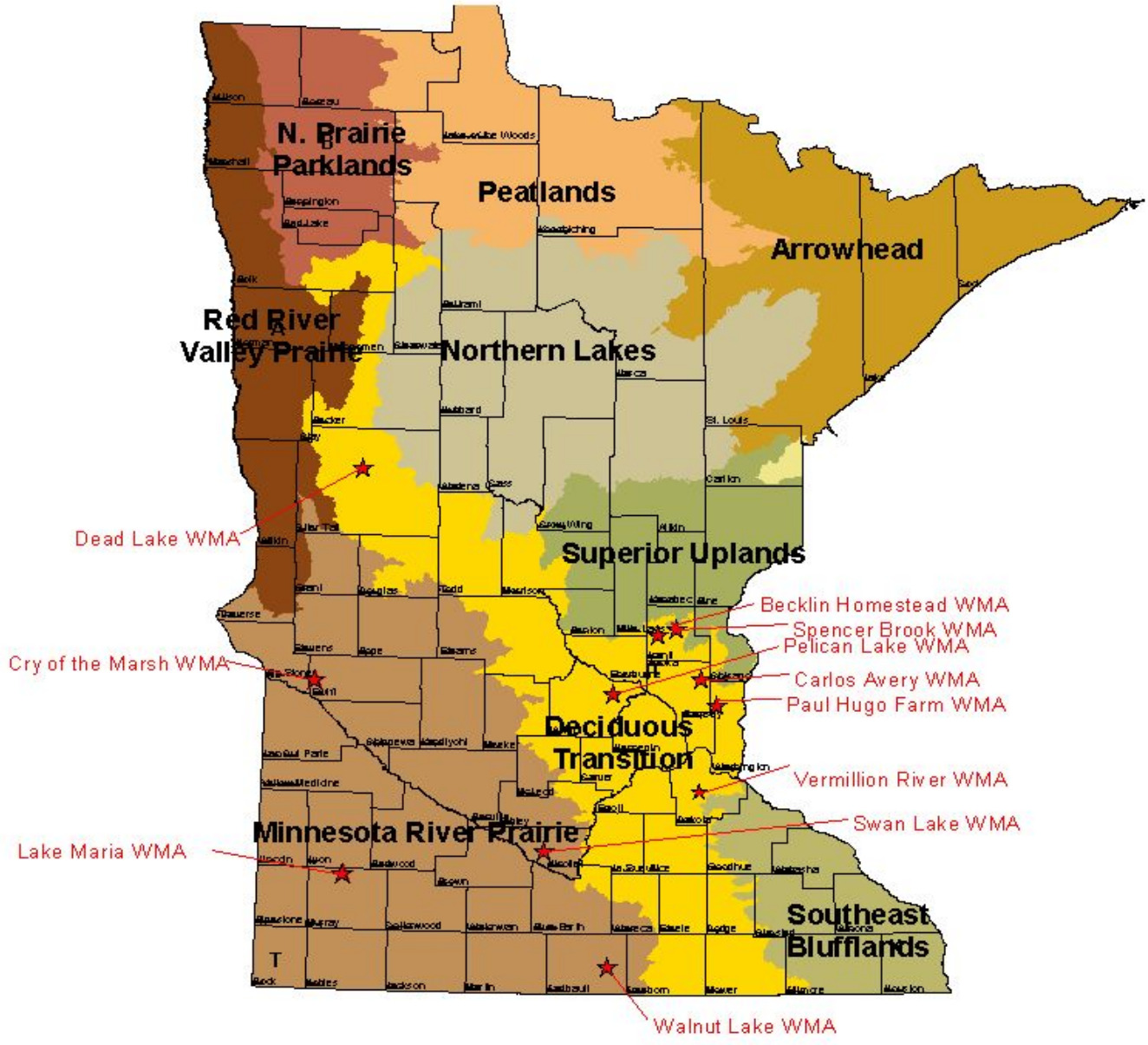
Restoration and Management Site Map



Prairie WMA Acquisition Initial Site Development



Wetland WMA Acquisition Initial Site Development



**FY 2010 Lessard-Sams Outdoor Heritage Council
Accelerated Prairie Grassland Restoration and Management Site List**

9/15/2009

WMA	County	Existing Cover Type	Benefitted Acres	Treated Acres	Restoration or Enhancement	Action(s) for this cycle	Target Cover Type (Note: It may take more than one funding cycle to reach the target cover type)	Difficulty	ECS Province	Est Total Cost
Primary Sites										
Hornstein WMA	Big Stone	Cropland	332	25	R	Conversion	Planted prairie	Low	Prairie Parkland	\$8,000
Teapail WMA	Dodge	Forest	15	6	R	Woody removal	Oak-aspen savanna	Medium	E. Broadleaf Forest	\$3,000
Wire Tree WMA	Kanabec	bean stubble & Hybrid Poplar stumps	32	32	R	Conversion	Planted prairie	Low	Laurentian Mixed Forest	\$11,100
Thorson Prairie	Polk	mix of native and cool season grasses	10	10	R	Conversion	Planted prairie	Medium	Aspen Parkland	\$4,000
Tympanuchus	Polk	mix of native and cool season grasses	10	10	R	Conversion	Planted prairie	Medium	Aspen Parkland	\$4,500
Alberta South WMA	Stevens	Non-native grassland	8	8	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,700
Anderson	Douglas	Non-native grassland	20	20	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,450
Anderson	Douglas	Tree Grove	3	3	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200
Blakesly	Grant	Tree Grove	3	3	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200

Boekholt Grove WMA	Stevens	Tree Grove	18	18	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$22,000
Brandon	Douglas	Tree Grove	5	5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$7,000
Brouillet WMA	Stevens	Non-native grassland	15	15	R	Woody removal	Native prairie	Low	Prairie Parkland	\$4,100
Chippewa Falls South	Pope	Tree Grove	10	10	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$14,000
Chippewa Pond	Grant	Tree Grove	3	3	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200
Cin WMA	Stevens	Tree Grove	2.5	2.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,000
Dolven WMA	Stevens	Non-native grassland	48	48	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$26,300
Farwell Northeast	Pope	Non-native grassland	30	30	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,250
Farwell Northeast	Pope	Tree Grove	2	2	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
Hegg Lake	Douglas	Tree Grove	4	4	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,600
Heinks	Pope	Non-native grassland	10	10	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
Hennen WMA	Stevens	Non-native grassland	30	30	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,850
Hennen WMA	Stevens	Tree Grove	1.5	1.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,000
Hoff	Pope	Tree Grove	3	3	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200
Hoff	Pope	Tree Grove	2	2	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
Jensen	Grant	Non-native grassland	40	40	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800

Jensen	Grant	Tree Grove	5	5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$7,000
John A. Scharf WMA	Stevens	Tree Grove	3.5	3.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,000
Kensington	Douglas	Tree Grove	4.5	4.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$6,300
Macsville	Grant	Non-native grassland	120	120	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$7,350
Marple	Grant	Tree Grove	3.5	3.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,900
Mathison WMA	Stevens	Non-native grassland	5	5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,000
Mathison WMA	Stevens	Tree Grove	3.5	3.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,000
Mustinka North	Grant	Non-native grassland	10	10	R	Woody removal	Native prairie	Low	Prairie Parkland	\$2,450
Mustinka South	Grant	Non-native grassland	15	15	R	Woody removal	Native prairie	Low	Prairie Parkland	\$3,850
Nora	Pope	Non-native grassland	70	70	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$9,450
Old Gravel Pit WMA	Stevens	Non-native grassland	6	6	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,700
Red Rock	Douglas	Tree Grove	2.5	2.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$3,500
Red Rock	Douglas	Tree Grove	2	2	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
Robertson WMA	Stevens	Non-native grassland	4	4	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,600
Schuck	Grant	Non-native grassland	10	10	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,450
Sedan	Pope	Tree Grove	8	8	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$11,200

Shuck	Grant	Tree Grove	3	3	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200
Skarpness	Pope	Tree Grove	3	3	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200
Urness East	Douglas	Tree Grove	2.5	2.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$3,500
Wade	Pope	Non-native grassland	40	40	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,250
Weiler WMA	Stevens	Non-native grassland	7	7	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,100
Weiler WMA	Stevens	Tree Grove	2.5	2.5	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,000
White Bear Lake	Pope	Non-native grassland	50	50	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200
White Bear Lake	Pope	Tree Grove	2	2	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
White Bear Lake	Pope	Tree Grove	4	4	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,600
Reserve WMA	Yellow Medicine	Crop	133	17.7	R	Conversion	Planted prairie	Low	Prairie Parkland	\$5,301
Rosenau-Lambrecht	Brown	Cropland	11	11	R	Conversion	Planted prairie	Low	Prairie Parkland	\$4,650
Turkey Foot	Redwood	Cropland	102	102	R	Conversion	Planted prairie	Low	Prairie Parkland	\$37,230
Lac qui Parle WMA	Swift	Native Prairie	125	35	E	Woody removal	Native prairie	Low	Prairie Parkland	\$3,000
Erie WMA	Yellow Medicine	Planted prairie	69	0.6	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$134
Erie WMA	Yellow Medicine	Planted prairie	69	0.7	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$156
Erie WMA	Yellow Medicine	Planted prairie	69	0.3	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$669

Erie WMA	Yellow Medicine	Planted prairie	69	1.2	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$268
Middle Antelope Valley	Yellow Medicine	Native Grasses	220	8.9	E	Woody Removal	Native prairie	Low	Prairie Parkland	\$1,157
Middle Antelope Valley	Yellow Medicine	Native Grasses	220	5	E	Woody Removal	Native prairie	Low	Prairie Parkland	\$650
Middle Antelope Valley	Yellow Medicine	Native Grasses	220	3	E	Woody Removal	Native prairie	Low	Prairie Parkland	\$390
Mound Springs WMA	Yellow Medicine	Native Prairie	196	51.5	E	Woody Removal	Native prairie	Low	Prairie Parkland	\$6,438
Oshkosh WMA	Yellow Medicine	Planted prairie	44.7	44.7	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,588
Timm's Lake WMA	Yellow Medicine	Planted prairie	202	0.6	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$141
Timm's Lake WMA	Yellow Medicine	Planted prairie	202	0.9	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$212
Timm's Lake WMA	Yellow Medicine	Planted prairie	202	4.1	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$964
Timm's Lake WMA	Yellow Medicine	Planted prairie	202	3.2	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$752
Timm's Lake WMA	Yellow Medicine	Planted prairie	202	6.8	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$1,598
Baker's Lake	McLeod	Planted Prairie	6	6	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$800
Courtland East (Swan Lake)	Nicollet	Planted prairie	45	45	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,000
Deutsch	McLeod	Planted prairie	10	10	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$900
Evans Slough	Blue Earth	Planted prairie	26	26	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$18,200
George & Elizabeth Lange	Blue Earth	Planted prairie	2.6	2.6	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$1,820

Indian Lake	Nicollet	Planted prairie	10	10	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$1,800
Lake Guckeen	Faribault	Planted prairie	46	46	E	Woody removal	Planted prairie	Medium	Prairie Parkland	\$32,200
Lost Marsh	Blue Earth	Planted prairie	17	17	E	Woody removal	Planted prairie	Hard	Prairie Parkland	\$11,900
Maple River - Traynor Tract	Blue Earth	Planted prairie	8	8	E	Woody removal	Planted prairie	Medium	Prairie Parkland	\$5,600
Mark & Ursel Smith	McLeod	Planted prairie	10	10	E	Woody removal	Planted prairie	Medium	Prairie Parkland	\$1,200
Penn	McLeod	Planted prairie	15	15	E	Woody removal	Planted prairie	Medium	Prairie Parkland	\$2,250
Prairie Heritage	McLeod	Planted prairie	25	25	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$3,300
Rice Lake	Faribault	Planted prairie	21	21	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$14,700
Sigler	Sibley	Planted prairie	13	13	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,000
Spiering	McLeod	Planted prairie	3	3	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$400
Sumter	McLeod	Planted prairie	6	6	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$1,400
Wiwi Bay (Swan Lake)	Nicollet	Planted Prairie	15	15	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,500
Bud Jensen WMA	Dodge	Wet brush prairie & woodland	102	55	E	Woody removal	Wet brush-prairie	Medium	E. Broadleaf Forest	\$8,800
Lena Larson WMA	Mower	Wet brush prairie & woodland	175	54	E	Woody removal	Wet brush-prairie	Low	E. Broadleaf Forest	\$11,500
Lyle-austin WMA	Mower	Native Prairie (formerly railroad grade)	116	116	E	Woody removal	Native prairie	Medium	E. Broadleaf Forest	\$26,000

Naylor WMA	Dodge	Brushland & woodland	270	106	E	Woody removal	Mesic brush-praire	Low	E. Broadleaf Forest	\$16,500
Pheasants Forever WMA	Dodge	Wet brush prairie, woodland, seeded grassland	297	109	E	Woody removal	Wet brush-prairie & mesic brush-praire	Low	E. Broadleaf Forest	\$19,000
Ramsey Mill Pond WMA	Mower	Planted prairie	335	100	E	Conversion	Planted prairie/oak savanna	Low	E. Broadleaf Forest	\$23,000
Rose WMA	Mower	Wet brush prairie & woodland	51	25	E	Woody removal	Wet brush-prairie	Low	E. Broadleaf Forest	\$7,000
Schletty WMA	Dodge	Wet brush prairie & woodland	13	13	E	Woody removal	Wet brush-prairie	Medium	E. Broadleaf Forest	\$2,600
Wasioja WMA	Dodge	Mesic brush prairie and woodland	11	5	E	Woody removal	brush-prairie	Medium	E. Broadleaf Forest	\$7,500
Cold Springs	Renville	Remnant Prairie/Savanna	96	96	E	Woody removal	Native prairie/oak savanna	Medium	Prairie Parkland	\$30,000
Mulligan Slough	Brown	Planted Grass, Remnant Prairie	240	240	E	Woody removal	Native/planted prairie	Medium	Prairie Parkland	\$10,000
Wood Lake	Brown	Planted Grass, Remnant Prairie	157	157	E	Burn	Native prairie/oak savanna	Medium	Prairie Parkland	\$12,000
Beaver Creek WMA	Fillmore	Planted prairie	710	100	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$6,170
High Forest WMA	Olmsted	Planted prairie	65	20	E	Woody removal	Planted prairie	Medium	E. Broadleaf Forest	\$2,468
Marian Marshall WMA	Olmsted	Planted prairie	60	20	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$1,234
Mound Prairie WMA	Houston	Planted prairie	328	100	E	Woody removal	Planted prairie	Medium	E. Broadleaf Forest	\$12,341

Murtaugh WMA	Goodhue	Planted prairie	96	40	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$2,468
Nelson Fen WMA	Olmsted	Planted prairie	79	40	E	Woody removal	Planted prairie	Medium	E. Broadleaf Forest	\$4,937
Nosek	Fillmore	Planted prairie	137	40	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$2,468
Perched Valley WMA	Goodhue	Planted prairie	233	60	E	Woody removal	Planted prairie	Medium	E. Broadleaf Forest	\$7,404
Root River WMA	Houston	Planted prairie	443	100	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$6,170
Suess WMA	Olmsted	Planted prairie	54	40	E	Woody removal	Planted prairie	Medium	E. Broadleaf Forest	\$4,937
Upper Iowa River WMA	Fillmore	Planted prairie	131	40	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$2,468
Vermilya WMA	Olmsted	Planted prairie	197	40	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$2,468
Woodbury WMA	Goodhue	Planted prairie	76	40	E	Woody removal	Planted prairie	Low	E. Broadleaf Forest	\$2,468
Nelson WMA	Murray	Planted Grass, Remnant Prairie	30	30	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$3,750
Peters WMA	Murray	Planted Grass	70	70	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,000
Pipestone WMA	Pipestone	Remnant Prairie/Savanna	17	17	E	Woody removal	Remnant Prairie/Savanna	Low	Prairie Parkland	\$2,125
Whitewater WMA	Winona	Native/planted prairie	50	50	E	Woody Removal	Native/planted prairie	Low	E Broadleaf Forest	\$17,500

Armbrust WMA	Martin	Wet Prairie	60	60	E	Woody Removal	Wet Prairie	Hard	Prairie Parkland	\$25,000
Ewy WMA	Watonwan	Wet Prairie	70	70	E	Woody Removal	Wet Prairie	Hard	Prairie Parkland	\$25,000
Leudtke WMA	Martin	Wet Prairie	90	90	E	Woody Removal	Wet Prairie	Hard	Prairie Parkland	\$25,000
Madelia WMA	Watonwan	Planted prairie	130	130	E	Woody Removal	Wet Prairie	Hard	Prairie Parkland	\$25,000
Valleau WMA	Jackson	Wet Prairie	150	150	E	Woody Removal	Wet Prairie	Hard	Prairie Parkland	\$25,000
Willow Creek WMA	Martin	Wet Prairie	40	40	E	Woody Removal	Wet Prairie	Hard	Prairie Parkland	\$25,000
Maple Meadows	Polk	mix of native and cool season grasses	41	41	E	Woody removal	Planted prairie	Medium	Aspen Parkland	\$8,200
Alberta North WMA	Stevens	Native and Non-native grassland	10	10	E	Woody removal	Native prairie	Low	Prairie Parkland	\$4,100
Alberta SE WMA	Stevens	Tree Grove	3.5	3.5	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,000
Benson East WMA	Stevens	Dry Prairie	6	6	E	Woody removal	Native prairie	Low	Prairie Parkland	\$6,350
Beson West WMA	Stevens	Trees with native grasses	15	15	E	Woody removal	Native prairie	Low	Prairie Parkland	\$8,100
Blakesly	Grant	Planted natives	20	20	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$3,500
Chippewa Falls North	Pope	Planted natives	20	20	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$7,000
Chippewa Falls North	Pope	Tree Grove	2	2	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
Chippewa Pond	Grant	Planted natives	20	20	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,550
Cin WMA	Stevens	Dry Prairie	25	25	E	Woody removal	Native prairie	Low	Prairie Parkland	\$8,100

Erickson WMA	Stevens	Mixed emergent marsh	35	35	E	Woody removal	Native wetland	Low	Prairie Parkland	\$8,100
Eul WMA	Stevens	Marsh	3	3	E	Woody removal	Native wetland	Low	Prairie Parkland	\$1,300
Eul WMA	Stevens	Tree Grove	3	3	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$5,000
Hoff	Pope	Planted natives	15	15	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
Klason WMA	Stevens	Dry Prairie	40	40	E	Woody removal	Native prairie	Low	Prairie Parkland	\$13,700
Kube-swift E WMA	Grant	Planted natives	4	4	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,450
Kube-swift SE WMA	Grant	Planted natives	3	3	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$1,750
Kube-swift West	Grant	Tree Grove	7	7	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$9,800
Kube-swift West WMA	Grant	Planted natives	3	3	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$1,750
Lowry Northeast	Pope	Planted natives	25	25	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$7,000
Lowry Southwest	Pope	Planted natives	15	15	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
Muddy Creek WMA	Stevens	Dry Prairie	20	20	E	Woody removal	Native prairie	Low	Prairie Parkland	\$15,800
New Prairie	Pope	Planted natives	10	10	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,800
New Prairie	Pope	Tree Grove	2.5	2.5	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$3,500
Noordmans	Pope	Planted natives	100	100	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$11,200
Noordmans	Pope	Tree Grove	3	3	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$4,200

Red Rock	Douglas	Planted natives	40	40	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$7,000
Sedan	Pope	Planted natives	150	150	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$13,300
Sedan Pond	Pope	Native and Non-native grassland	150	150	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$13,300
Starbuck	Pope	Native Prairie	5	5	E	Woody removal	Native prairie	Low	Prairie Parkland	\$1,400
Urness NW	Douglas	Native Prairie	25	25	E	Woody removal	Native prairie	Low	Prairie Parkland	\$7,000
Urness SE	Douglas	Native Prairie	40	40	E	Woody removal	Native prairie	Low	Prairie Parkland	\$7,000
Camp Kerk WMA	Swift	Native & exotic mix	1023	224	E	Woody removal	Native prairie	Low	Prairie Parkland	\$35,000
Sioux Nation WMA	Yellow Medicine	Planted prairie	485	24.3	E	Woody removal	Planted prairie	Low	Prairie Parkland	\$2,430
North Star (Swan Lake)	Nicollet	Native Prairie, Planted Prairie	45	45	E	Woody removal	Planted prairie	Hard	Prairie Parkland	\$15,000
Ringo	Kandiyohi	Native prairie and seeded grasses	38	38	E	Woody Removal	Native/planted prairie	Medium	Prairie Parkland	\$11,400
Sween WMA	Chippewa	Old pasture and seeded grasses	70	70	E	Woody Removal	Planted prairie	Medium	Prairie Parkland	\$14,000
Total Primary Sites			11,581	5,029						\$1,141,273

Alternate Sites

Belgium	Polk	tame grasses	18	18	R	Conversion	Planted prairie	Medium	Aspen Parkland	\$10,000
Burnham	Polk	native prairie	200	200	E	Woody removal	Native prairie	Medium	Aspen Parkland	\$18,000
Chicog	Polk	tame grasses	12	12	R	Conversion	Planted prairie	Medium	Aspen Parkland	\$6,600
Enerson	Polk	tame grasses	38	38	R	Conversion	Planted prairie	Medium	Aspen Parkland	\$20,900

Maple Meadows	Polk	tame grasses	25	25	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$13,750
Maple Meadows	Polk	tame grasses	6	6	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$3,600
Mentor Prairie	Polk	tame grasses	7	7	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$3,850
Mentor Prairie	Polk	mix of native and cool season grasses	11	11	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$6,050
Mentor Prairie	Polk	mix of native and cool season grasses	60	60	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$31,000
Moran	Red Lake	trespass cropland	5	5	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$3,300
Onstad	Polk	tame grasses	10	10	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$6,000
Pembina	Polk	mix of native and cool season grasses	50	50	E	Woody removal	Planted prairie	Medium	Parkland Aspen	\$13,500
Polk	Polk	tame grasses	6	6	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$3,300
Polk	Polk	mix of native and cool season grasses	11	11		Conversion	Planted prairie	Medium	Parkland Aspen	\$5,500
Stipa	Polk	mix of native and cool season grasses	40	40	E	Woody removal	Planted prairie	Medium	Parkland Aspen	\$10,000
Freeman WMA	Stevens	Cropland	25	25	R	Conversion	Planted prairie	Low	Parkland E. Prairie	\$9,000
Iona WMA	Todd	Planted Prairie	42	3	E	Woody Removal	Planted prairie	Low	Forest Broadleaf	\$3,200
Ras-Lynn	McLeod	Native Prairie, Planted Prairie	30	30	E	Woody removal	Planted prairie	Medium	Parkland E. Prairie	\$8,150
Whitewater WMA	Winona	Ag or brome grass	30	30	R	Conversion	Planted prairie	Medium	Forest Broadleaf	\$13,350
Erskine	Polk	cropland	20	20	R	Conversion	Planted prairie	Medium	Parkland Aspen	\$13,000

Marcoux	Red Lake	mix of native and cool season grasses	45	45	E	Woody removal	Planted prairie	Medium	Aspen Parkland	\$12,000
Pembina	Polk	tame grasses	65	65	R	Conversion	Planted prairie	Medium	Aspen Parkland	\$56,000
Anderson WMA	Douglas	Non-native grassland	20	20	R	Conversion	Planted prairie	Low	Prairie Parkland	\$7,000
Art Engelbrecht WMA	Douglas	Planted Prairie	140	140	E	Interseed	Planted prairie	Low	Prairie Parkland	\$61,600
Freeman WMA	Stevens	Planted Prairie	120	120	E	Interseed	Planted prairie	Low	Prairie Parkland	\$52,800
Lake Simon WMA	Pope	Planted Prairie	100	100	E	Interseed	Planted prairie	Low	Prairie Parkland	\$44,000
Lowry NE WMA	Pope	Non-native grassland	11	11	R	Conversion	Planted prairie	Low	Prairie Parkland	\$5,000
Lowry SW WMA	Pope	Non-native grassland	11	11	R	Conversion	Planted prairie	Low	Prairie Parkland	\$5,000
Nora WMA	Pope	Non-Native Grassland	70	70	R	Interseed	Planted prairie	Low	Prairie Parkland	\$30,800
Nora WMA	Pope	Non-native grassland	70	70	R	Conversion	Planted prairie	Low	Prairie Parkland	\$21,000
Sedan WMA	Pope	Planted Prairie	100	100	E	Interseed	Planted prairie	Low	Prairie Parkland	\$44,000
White Bear WMA	Pope	Planted Prairie	60	60	E	Interseed	Planted prairie	Low	Prairie Parkland	\$26,400
Lac qui Parle WMA (Nygard Tract)	Swift	Woodlot and exotic grass	12	12	R	Conversion	Planted prairie	Low	Prairie Parkland	\$7,800
David B. Vesall WMA	Lac Qui Parle	Non-native grassland	640	46	R	Conversion	Planted prairie	Low	Prairie Parkland	\$19,620
Daub's Lake	Redwood	Planted Grass	18	18	E	Woody removal	Planted prairie	Medium	Prairie Parkland	\$7,400
Robina WMA	Hennepin	Timothy and Alfalfa	10	10	R	Conversion	Planted prairie	Medium	E. Broadleaf Forest	\$11,400

Talcot Lake WMA	Cottonwood	Planted Grasses	22	22	E	Improvement	Planted prairie	Medium	Prairie Parkland	\$11,500
Ann Lake WMA	Kanabec	wetland & upland shrub invasion Willow and Alder	72	72	E	Woody removal	Native prairie	Medium	Laurentian Mixed Forest	\$43,200
Quistorff WMA	Todd	Alfalfa Mix	89.7	6.7	R	Conversion	Planted prairie	Medium	Prairie Parkland E.	\$11,200
Rice Area Sportsmens Club WMA	Morrison	Non-native grassland	14	19	R	Conversion	Planted prairie	Medium	Broadleaf Forest	\$23,600
Benjamin Thovson Memorial WMA	Yellow Medicine	Crop	152	48.1	R	Conversion	Planted prairie	Low	Prairie Parkland	\$13,468
Richard J. Dorer WMA	Lincoln	Non-native grassland	337.6	57.1	R	Woody removal	Planted prairie	Low	Prairie Parkland	\$23,861
Tatley WMA	Yellow Medicine	Crop	320	3.5	R	Conversion	Planted prairie	Low	Prairie Parkland	\$980
Tatley WMA	Yellow Medicine	Crop	320	20.6	R	Conversion	Planted prairie	Low	Prairie Parkland	\$5,768
Tatley WMA	Yellow Medicine	Crop	320	18.3	R	Conversion	Planted prairie	Low	Prairie Parkland	\$5,124
Tatley WMA	Yellow Medicine	Crop	320	34	R	Conversion	Planted prairie	Low	Prairie Parkland	\$9,520
Tatley WMA	Yellow Medicine	Crop	320	25.5	R	Conversion	Planted prairie	Low	Prairie Parkland	\$7,140
Tatley WMA	Yellow Medicine	Crop	320	1.8	R	Conversion	Planted prairie	Low	Prairie Parkland E.	\$504
Beaver Creek WMA	Fillmore	Planted prairie	160	40	R	Conversion	Planted prairie	Medium	Broadleaf Forest E.	\$13,000
Chosen Valley WMA	Fillmore	pasture	60	5	R	Conversion	Planted prairie	Medium	Broadleaf Forest E.	\$3,100
Haverhill WMA	Olmsted	pasture	400	50	R	Conversion	Oak savanna	Medium	Broadleaf Forest	\$32,300

Dalbo WMA	Isanti	wet meadow	170	170	E	Woody removal	native wet prairie	Hard	Laurentian Mixed Forest	\$76,500
Kroschel WMA	Kanabec	wet meadow	55	55	E	Woody removal	native wet prairie	Hard	Laurentian Mixed Forest	\$55,750
Total Alternate Sites			5,590	2,154						\$950,385