

Lessard-Sams Outdoor Heritage Council

2012 Accomplishment Plan

Program Title: P-02 Accelerated Prairie Restoration and Enhancement on DNR Lands

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Funds Recommended: \$ 1,652,000

Legislative Citation: ML 2011, Ch. X, Art. X, Sec. X, Subd. X (x): *(to be completed when signed by Governor)*

Abstract:

This program will accelerate the restoration and enhancement of approximately 20,500 acres of native prairie vegetation on Wildlife Management Areas, and Scientific and Natural Areas and Native Prairie Bank Easements.

Program Narrative

Design and Scope of Work

The WMA system, started in 1951, has 58 years of support from conservationists, hunters, and legislators. Over 1.3 million acres of habitat in over 1,400 WMAs are protected by the DNR. Protection, development and enhancement of public lands as core elements in a diverse network of habitat complexes will provide permanent population banks from which wildlife and plant communities can expand into the surrounding landscape during optimum environmental conditions. These networks will provide migration corridors for movement of both animal and plant communities in response to changing conditions. Strategically located, these complexes will provide many tangential benefits including water quality improvements, seed sources and local economic diversity. This strategy will focus on completing and expanding complexes with some existing public ownership and identifying new target complexes where there are gaps in the network. The SNA program, created by the 1969 Minnesota Legislature, currently administers over 140 natural areas and 95 Native Prairie Bank easements. Lands designated as Scientific and Natural Areas have the highest level of protection the state of Minnesota can afford to land.

Most restoration and enhancement practices being applied with this proposal have been proven to provide desired outcomes on existing state-managed lands. The assessment portion of this project will also assess these practices for effectiveness and inform future habitat improvement strategies. Through this funding, the state will be able to accelerate improvements on state land thereby providing for improved function of critical wildlife habitat and a more functional prairie landscape.

Habitat improvement actions enhance existing degraded habitat to directly increase the productivity of nesting habitat for pheasants, waterfowl and a variety of non-game grassland species such as meadowlarks, longspurs, and other Species of Greatest Conservation Need. Additionally, some lands are converted from a non-wildlife friendly (such as row crops) use to wildlife habitat as newly acquired lands are incorporated into the system. These restorations and enhancements will occur on public lands (Wildlife Management Areas, Scientific and Natural Areas, State Forests and Prairie Bank Easements and have already been identified as priorities for accelerated work. It is expected that there will be support for these programs.

Although Minnesota DNR has the training and know-how to restore high quality prairie vegetation current funding has been insufficient to meet all needs. Many sites on state 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 are “problem” sites consisting of monotypic fields of brome that has low habitat values. Furthermore exotic and/or invasive plants are encroaching into them. Woody cover encroachment is an especially troublesome problem that must be addressed. Existing grasslands are impaired by the encroachment of woody vegetation. 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.

Program managers may add, delete, and substitute projects on this parcel list based upon need, readiness, cost, opportunity, and/or urgency so long as the substitute parcel/project forwards the constitutional objectives of this program in the *Project Scope* table of this accomplishment plan. The final accomplishment plan report will include the final parcel list.

WMA Habitat Work (approximately 4500 acres)

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 via harvesting of local native or restored prairie when possible and purchase of seed from vendors when necessary.

Grassland enhancement work uses a number of methods to reinvigorate or increase diversity of existing prairie type grasslands. Techniques that will be employed include brush and tree removal, chemical treatment, mowing, inter-seeding and burning. MN/DNR will contract as much WMA work as possible throughout the allocation period. Due to a severe shortage of qualified burn personnel, 6 new DNR FTEs will be hired for two years to address the significant backlog of burning and woody cover encroachment management needs on WMAs.

WMA Roving Crew (approximately 14,000 acres over 2 years)

A DNR WMA roving crew will be assembled with 6 FTEs consisting ultimately of new limited-term employees. This crew will be capable of burning 7,000 acres per year (at full capacity – less the first year) assuming normal weather conditions and manage an additional 1,000 acres of woody encroachment for a total of 14,000 acres treated over the four year life of this proposal. The crew’s top priority will be burning. Spring, fall and some summer burning will be conducted. When not burning the crew will work on other habitat projects on WMAs such as woody encroachment removal, creating fire breaks, etc. Flexibility is allowed so that the crew can work on high priority wildlife management projects that

promote wildlife and habitat objectives and increase efficiency and cost effectiveness even though they may not be strictly grassland related, wetland and forest management activities are examples of this work. ~~It should be noted that there is a severe shortage of private sector personnel who meet the State of MN burning certification requirements. One estimate (SNA Program) is that only 6 people statewide that are non-agency staff meet Burn Boss certification requirements. Furthermore, insurance and other hurdles prevent some contractors from being able to bid on state contracts. Over time we are interested in building private sector capacity as burning is a useful and long-term management strategy.~~ Note: Funding provided by LSOHC is not enough to fully cover the costs of a crew for 2 years thus additional Game and Fish Funds will be used to make up the difference.

Ecological Resources Habitat Work (approximately 1,900)

Prairie enhancement activities will be implemented on 1,900 acres of existing and newly acquired prairies throughout the prairie regions of the state. Enhancement activities include 735 acres invasive species treatments (herbaceous and woody species) and 1,165 acres of prescribed burning. Funding requested for enhancement projects will cover all project costs and activities including project design, contract administration, staff time, equipment and supplies. These enhancement activities will focus on native prairies, but may include some restored prairies within the project sites. Many of these native prairie sites harbor rare and unique features, or are located on steep terrain, which require low impact management techniques (e.g. hand cutting of woody encroachment). These specialized prairie management techniques, and the skilled crews that implement them, can incur higher costs than similar lower diversity grassland projects.

Enhancement practices will be designed and administered by DNR staff, while implementation will use a combination of DNR staff and contracted services. There is a backlog of management needs on DNR administered lands and implementation of restoration and enhancement can begin immediately upon receipt of funds. Enhancement projects would be completed by the end of FY14.

Planning

The Minnesota Statewide Conservation and Preservation Plan identifies habitat loss and degradation as the number one driver of change for wildlife in Minnesota. The plan further states that the prairie regions have experienced the greatest amount of habitat loss of any region. This project addresses the following priorities in the *Minnesota Conservation and Preservation Plan*:

- “Critical Land Protection” recommendations H1 “Protect priority land habitats” (which specifically targets native prairie and savanna as well as landscape-scale complexes centered on concentrations of existing remnant habitat – pp. 63 & 66 of Habitat Recommendations)
- “Land and Water Restoration and Protection” recommendations H5 “Restore land, wetlands, and wetland-associated watersheds” (with emphasis on prairie – p. 80)

Tomorrow’s Habitat for the Wild and Rare - Minnesota’s Comprehensive Wildlife Conservation Strategy for species in greatest conservation need (SGCNs) has identified (p. 38) significant loss and degradation of habitat as the number one management challenge and one of the principle strategies is to provide protection through selective acquisition of key habitats in each Ecological Section. This proposal directly addresses many of the State Wildlife Action Plan’s Strategies and Priority Conservation Actions to “stabilize and increase SGCN [species of greatest conservation need] populations” for the subsections with prairie ecosystems (pp. 86, 92, 98, 104, 110, 206, 212, 218, 224, 234) and the prairie, savanna, and surrogate grassland habitats (pp. 255, 263, and 265).

Minnesota's Long Range Duck Recovery Plan lists the objective of restoring a breeding population of 1 million ducks by 2056. The primary strategy is the protection and restoration of 2 million additional acres of habitat.

Minnesota's Long Range Plan for the Ring-necked Pheasant lists the objective of increasing pheasant population to 1.8 million birds. To accomplish this objective the plan calls for an additional 21,000 acres of grassland to be protected through acquisition of WMAs.

The national Grassland Conservation Plan for Prairie Grouse identifies habitat needs for prairie chickens and sharp-tailed grouse in Minnesota.

Additionally, this project also helps meet goals outlined in the following plans:

- *Scientific & Natural Areas Long Range Plan*
- *Minnesota's Timber Rattle Snake Recovery Plan*
- *Minnesota DNR's Nongame Strategic Plan*

LSOHC Ecological Section Priorities

Priority Actions for the Prairie Section

1. Protect, enhance, or restore existing wetland/upland complexes, or convert agricultural lands to new wetland/upland habitat complexes.
2. Protect, enhance and restore remnant native prairie, Big Woods forests and oak savanna.
3. Convert agricultural land to wetland/upland to protect, enhance, or restore existing habitat complexes, such as existing WMA's.
4. Restore or enhance habitat on public lands.
7. Protect, enhance and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success.

Priority Actions for the Forest/Prairie Transition Section

1. Protect, enhance and restore wild rice wetlands, shallow lakes, wetland/grassland complexes, aspen parklands, and shoreland that provide critical habitat for game and non-game wildlife.
2. Protect, enhance and restore rare native remnant prairie.
3. Protect, enhance and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success.

Priority Actions for the Southeast Forest Section

3. Protect, enhance and restore remnant goat prairies.
4. Restore forest-based wildlife habitat that has experienced substantial decline in aerial extent in recent decades.

Priority Actions for the Northern Forest Section

3. Restore and enhance habitat on existing protected properties, with preference to habitat for rare, endangered or threatened species identified by the Minnesota County Biological Survey.
4. Restore forest-based wildlife habitat that has experienced substantial decline in aerial extent in recent decades.

Priority Actions for the Metropolitan Urbanizing Area

1. Protect, enhance and restore remnant native prairie, Big Woods forests and oak savanna with an emphasis on areas with high biological diversity.

Relationship to Other Constitutional Funds

We believe that the work being proposed is most appropriate for Outdoor Heritage funding rather than other Constitutional funding. However, DNR will consult and coordinate with other partners that receive constitutional funding to ensure all funding sources complement each other and provide the greatest natural resource outcomes.

Relationship to Current Organizational Budget

DNR Expenditures for FY 09

DNR - \$200M

FAW - \$33.1M

ECO - \$11.6M

Wildlife Section expenditures for FY 09

Grassland expenditures	\$2,770,000
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Total acquisition expenditures (excluding bonding)	\$6,840,000
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Eco Resources expenditures for FY09 including bonding

SNA/ Prairie Bank (site specific) & Assessment <u>related to prairie</u>	\$1,771,000
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Sustainability and Maintenance

WMA

Routine maintenance will be accomplished by Area Wildlife staff as part of their public land management responsibilities within future operating budgets. Periodic enhancements such as invasive species removal, prescribed burning, supplemental vegetation planting or wetland and water level management will be accomplished through annual funding requests from a variety of funding sources including but not limited to Game and Fish Fund, Bonding, Gifts, Federal Sources, Environmental Trust Fund, and Outdoor Heritage Fund.

SNAs

The Division of Ecological Resources and its protection, restoration, and enhancement activities are supported largely by special project funds. The ongoing maintenance of SNA administered lands requires the program to continually seek additional funds to perform its mission. In the future the SNA program will continue to seek Outdoor Heritage Funds as well as other project appropriations to protect, restore, and enhance natural areas.

Accomplishment Timeline

Activity	Milestone	Date completed
Eco Invasive Species Treatments	735 acres completed	6/30/2014
Eco Prescribed Burns	1165 acres completed	6/30/2014
WMA roving crew	14,000 acres completed	6/30/2014
WMA habitat work	4,500 acres completed	6/30/2014

Attachments (*on spreadsheet workbook – 3 separate tabs*):

- A. Budget
- B. Proposed Outcome Tables
- C. Parcel List

No Map is needed for the accomplishment plan

Attachment A. Budget Spreadsheet

Name of Proposal: Accelerated Prairie Restoration and Enhancement on DNR
Date: 10/12/2010
Legal Citation / Proposal Number: P-02

[Link Here to definitions of the budget items below.](#)

Total Amount of Request \$ 1,652,000 *From page 1 on the funding form.*

Position breakdown here	FTE	Over # of years	LSOHC Request	Anticipated Cash Leverage	Cash Leverage Source	Total
						\$ -
<i>WMA Habitat Crew Leader</i>	<i>1</i>	<i>2</i>	<i>\$ 116,000</i>			\$ 116,000
<i>WMA Habitat Crew Laborer</i>	<i>5</i>	<i>2</i>	<i>\$ 390,000</i>			\$ 390,000
Wildlife						\$ -
<i>Wildlife Contract Specialist</i>	<i>1</i>	<i>2</i>	<i>\$ 134,328</i>			\$ 134,328
SNA/Eco						\$ -
<i>SNA Contract Specialist (ext</i>	<i>0.1</i>	<i>3</i>	<i>\$ 20,688</i>			\$ 20,688
<i>SNA NR spec/tech (existing)</i>	<i>1.25</i>	<i>3</i>	<i>\$ 227,625</i>			\$ 227,625
<i>SNA laborer (new seasonal</i>	<i>0.45</i>	<i>3</i>	<i>\$ 42,336</i>			\$ 42,336
Total			\$ 930,977	\$ -	\$ -	\$ 930,977

Budget and Cash Leverage (All your LSOHC Request Funds must be direct to and necessary for program outcomes.)

Please describe how you intend to spend the requested funds.

Budget Item	PHIP used for WMA			
	LSOHC Request	Anticipated Cash Leverage	PHIP used for WMA Roving crew to make up difference	Total
Personnel - auto entered from above	\$ 930,977	\$ -	\$ -	\$ 930,977
Contracts	\$ 604,222			\$ 604,222
Fee Acquisition w/ PILT (breakout in table 6 & 7)	\$ -			\$ -
Fee Acquisition w/o PILT (breakout in table 6 & 7)	\$ -			\$ -
Easement Acquisition	\$ -			\$ -
Easement Stewardship	\$ -			\$ -
Travel (in-state)	\$ 42,100		\$ 75,000	\$ 42,100
Professional Services	\$ -			\$ -
DNR Direct Support Services (DNR programs only)	\$ 39,801			\$ 39,801
DNR Land Acquisition Costs				\$ -
Other				
Capital Equipment	\$ -		\$ 36,000	\$ -
Other Equipment/Tools	\$ 20,000		\$ 66,450	\$ 20,000
Supplies/Materials	\$ 14,900		\$ 1,898	\$ 14,900
	\$ 1,652,000	\$ -	\$ 179,348	\$ 1,652,000

Attachment B. Outcome Tables

Name of Proposal: Accelerated Prairie Restoration and Enhancement on DNR
Date: 10/12/2010
Legal Citation / Proposal Number: P-02

Table 1 and Table 3 column totals should be the same AND Table 2 and Table 4 column totals should be the same

If your project has lakes or shoreline miles instead of land acres, convert miles to acres

for Tables 1 and 3 using the following conversion:

Lakeshore = 6 acres per lakeshore mile / Stream & River Shore = 12 acres per linear mile, if both sides

Table 1. Acres by Resource Type

Describe the scope of the project in acres (use conversion above if needed)

	Wetlands	Prairies	Forest	Habitats	Total
Restore					0
Protect					0
Enhance		20400			20400
Total	0	20400	0	0	0

Total Acres (sum of Total column)

20400

These two cells should be the same figure.

Total Acres (sum of Total row)

20400

Table 2. Total Requested Funding by Resource Type

	Wetlands	Prairies	Forest	Habitats	Total
Restore					\$ -
Protect					\$ -
Enhance		\$ 1,652,000			\$ 1,652,000
Total	\$ -	\$ 1,652,000	\$ -	\$ -	

Total Dollars (sum of Total column)

\$ 1,652,000

These two cells should be the same figure.

Total Dollars (sum of Total row)

\$ 1,652,000

Check to make sure this amount is the same

as the Funding Request Amount on page 1 of Main Funding Form.

Table 3. Acres within each Ecological Section

	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore						0
Protect						0
Enhance	535	686	793	18090	296	20400
Total	535	686	793	18090	296	

Total Acres (sum of Total column)

20400

Total Acres (sum of Total row)

20400

Total Acres from Table 1.

20400

These three cells should be the same figure.

Attachment B. Outcome Tables

Table 4. Total Requested Funding within each Ecological Section

	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest	Total
Restore						\$ -
Protect						\$ -
Enhance	\$ 30,744	\$ 134,908	\$ 100,863	\$ 1,380,247	\$ 5,238	\$ 1,652,000
Total	\$ 30,744	\$ 134,908	\$ 100,863	\$ 1,380,247	\$ 5,238	

Total Dollars (sum of Total column)

\$ 1,652,000

These two cells should be the same figure.

Total Dollars (sum of Total row)

\$ 1,652,000

Check to make sure these amounts are the same as the Funding Request Amount on page 1 of Main Funding Form.

Table 5. Target Lake/Stream/River Miles

miles of Lakes / Streams / Rivers Shoreline

Table 6. Acquisition by PILT Status (enter information in acres)

		Wetlands	Prairies	Forests	Habitats	Total
Acquired in Fee State PILT Liability	with					0
Acquired in Fee without State PILT Liability						0
Permanent Easement State PILT Liability	NO					0

Table 7. Estimated Value of Acquisition by PILT Status (enter information in dollars)

		Wetlands	Prairies	Forests	Habitats	Total
Acquired in Fee State PILT Liability	with					\$ -
Acquired in Fee without State PILT Liability						\$ -
Permanent Easement State PILT Liability	NO					\$ -

Attachment C. Parcel List

Name of Proposal: Accelerated Prairie Restoration and Enhancement
Date: 6/14/2011
Legal Citation / Proposal Number: P-02

Parcel Name	County	Township	Range	Direction	Section	TRDS	# of acres	Estimated Cost to OHF	Description	Activity
PRIMARY PROJECTS										
Region 1										
Menahga WMA	Wadena	137	34	2	6	1373426	35	5,500	Seed	E
North Germany	Wadena	137	34	2	23	13734223	18	3,000	Seed	E
Lowe WMA	Wadena	139	35	2	31	13935231	12	2000	Seed	E
Yeager Lake WMA	Wadena	137	34	2	6	1373426	5	800	Seed	E
Yeager Lake WMA	Wadena	137	34	2	6	1373426	5	800	Seed	E
Vangsness	Norman	143	44	2	11	14344211	12	10,000	Site Prep	E
Ulen WMA	Clay	142	44	2	25	14244225	40	5,000	conversion	E
Janssen WMA	Clay	138	45	2	34	13845234	80	15,000	woody removal	E
Clay WMA	Clay	138	45	2	22	13845222	80	15,000	woody removal	E
Ranum WMA	Norman	146	43	2	6	1464326	40	30,000	Site Prep	E
Teiken-Dalve	Becker	142	41	2	34	14241234	14	10,000	Site Prep	E
Region 3										
Dalbo WMA	Isanti	37	25	2	4	372524	120	\$26,800	Seed	E
Kunkel WMA	Mille Lacs	36	27	2	34	3627234	110	\$1,400	Burn	E
Dalbo WMA	Isanti	37	25	2	4	372524	370		Burn	E
Ann Lake WMA	Kanabec	40	25	2	36	4025236	40		Burn	E
Jindra WMA	Mille Lacs	41	27	2	12	4127212	40		Burn	E
Wild Rose WMA	Chisago	36	21	2	9	362129	30		Burn	E
Wire Tree WMA	Kanabec	38	23	2	16	3823216	20		Burn	E
Stanchfield WMA	Isanti	37	24	2	2	372422	25		Burn	E
								\$6,600		
Carlos Avery WMA	Anoka	33	22	2	27	3322227	698	\$2,600	Burn	E
Bethel WMA	Isanti	34	24	2	23	3424223	23	\$11,500	Seed	E
Bethel WMA	Anoka	34	24	2	26	3424226	50		Burn	E
Hugo WMA	Washington	31	21	2	22	3121222	18		Burn	E
Hardwood Creek WMA	Washington	32	21	2	26	3221226	26		Burn	E
Bayport WMA	Washington	29	20	2	4	292024	107		Burn	E
Lamprey Pass WMA	Anoka	32	22	2	13	3222213	47		Burn	E
Mikkelson WMA	Anoka	33	22	2	8	332228	39		Burn	E
Burman WMA	Anoka	33	24	2	23	3324223	34		Burn	E
								\$2,300		
Woodland WMA	Wright	118	26	2	12	11826212	13		Burn	E
Hoglund WMA	Wright	122	26	2	30	12226230	18		Burn	E
Albion WMA	Wright	120	27	2	7	1202727	15		Burn	E
Corrinea WMA	Wright	121	27	2	36	12127236	8		Burn	E
								\$820		
Spirit Prairie WMA	Stearns	122	32	2	4	1223224	22		Burn	E

Attachment C. Parcel List

Vision WMA	Stearns	124	34	2	15	12434215	233.6		Burn	E
Stearns Prairie Heritage WMA	Stearns	123	34	2	36	12334236	95.3		Burn	E
Winter WMA	Stearns	126	35	2	13	12635213	14		Burn	E
Sauk River WMA	Stearns	126	34	2	35	12634235	121		Burn	E
Kurilla WMA	Stearns	125	32	2	18	12532218	47		Burn	E
								\$8,094		
Hamm WMA	Stearns	122	29	2	33	12229233	29.5		Burn	E
Happy Valley WMA	Stearns	126	30	2	3	1263023	42		Burn	E
								\$1,086		
Rochester Area WMAs	Multiple Benton, Morrison, Todd						600	\$5,000	Burn	E
Little Falls Area WMAs							750	\$58,900	Burn	E
Ferndale Ridge WMA	Houston	104	7	2	32	1047232	22	\$10,000	Conversion	E
Rock Dell WMA	Olmstead	105	15	2	4	1051524	50	\$23,000	Conversion	E
Whitewater WMA	Winona	107	10	2	8	1071028	24	\$8,000	Conversion	E
Whitewater WMA	Winona	108	10	2	26	10810226	1100	\$10,000	Burn	E
Region 4										
Oshkosh WMA	Yellow Medicir	115	44	2	23	11544223	16	820	Woody removal	E
Garvin WMA	Lyon	109	41	2	21	10941221	43.1	2155	Woody removal	E
Amiret WMA	Lyon	110	40	2	4	1104024	32.6	1630	Woody removal	E
SE Clifton WMA	Lyon	111	40	2	34	11140234	4.5	225	Woody removal	E
Reserve WMA	Yellow Medicir	115	44	2	31	11544231	69.7	3485	Woody removal	E
Gabriel Anderson WMA	Lyon	113	40	2	5	1134025	9.7	485	Woody removal	E
Talcot Lake WMA	Cottonwood	105	38	2	29	10538229	22	11,500	Conversion	E
Wood Lake WMA	Brown	108	33	2	29	10833229	80	24,000	Seed	E
Geneva WMA	Freeborn	104	20	2	18	10420218	19	10,000	Woody removal	E
Manchester WMA	Freeborn	104	22	2	35	10422235	23	\$8,000	Seed	E
Rice Lake WMA	Faribault	104	27	2	31	10427231	31	12,400	Seed	E
Gundmeyer WMA	Sibley	112	31	2	3	1123123	48.5	7,000	Woody Removal	E
Oleander WMA	Kandiyohi	122	36	2	16	12236216	32	8,000	Woody removal	E
Lac qui Parle WMA	Chippewa	118	41	2	6	1184126	5	20,000	Woody removal	E
Victory WMA	Big Stone	121	45	2	6	1214526	24	7,000	Woody removal	E
Lac qui Parle WMA	Swift	120	43	2	20	12043220	49	2,500	Woody removal	E
SNA/ Eco										
Felton Prairie SNA-Assinaboia	Clay	142	45	2	20	14245220	120	\$3,500	Burn	E
Gneiss Outcrop SNA	Chippewa	115	39	2	11,12	11539211	125	\$75,000	Woody removal	E
Gneiss Outcrop SNA	Chippewa	115	39	2	11,12	11539211	75	\$5,000	Burn	E
Hythecker SNA	Dodge	107	18	2	31	10718231	12	\$15,000	Woody removal	E
Hythecker SNA	Dodge	107	18	2	31	10718231	40	\$3,400	Burn	E
Iron Horse SNA	Dodge	105	17	2	27	10517227	40	\$2,800	Prescribed Burn	E
Marsh Grove Prairie Bank	Marshall	156	45	2	36	15645236	100	\$18,500	Woody removal	E
Marsh Grove Prairie Bank	Marshall	156	45	2	36	15645236	120	\$4,500	Burn	E
Rogers Prairie Bank	Clay	137	46	2	27	13746227	80	\$5,000	Grazing System	E
Rogers Prairie Bank	Clay	137	46	2	27	13746227	80	\$2,500	Burn	E
Sandpiper Prairie SNA	Norman	144	45	2	32	14445232	200	\$5,000	Burn	E

Attachment C. Parcel List

Swede Forest SNA	Yellow Medicine	114	38	2	12, 13	11438212	25	\$15,000	Woody removal	E
Two Rivers Aspen Parkland SNA	Roseau	160	44	2	17,20	16044217	480	\$8,000	Burn	E
Two Rivers Aspen Parkland SNA	Roseau	160	44	2	17,20	16044217	240	\$45,000	Woody removal	E
Wild Indigo SNA	Mower	103	18	2	13,23, 24	10318213	30	\$25,000	Woody removal	E
Mound Prairie	Houston	104	5	2	33	1045233	30	\$17,500	Woody removal	E
Seminary Fen	Carver	116	23	2	35	11623235	25	\$20,000	Woody removal	E
Seminary Fen	Carver	116	23	2	35	11623235	10	\$20,000	invasive treatment	E
State Forest - Reno Unit	Houston	102	4	2	22,26, 35	1024226	25	\$58,000	Woody removal	E

SECONDARY PROJECTS

Region 1

Erlandson WMA	Ottertail	131	43	2	25	13143225	90	10,000	Seed	E
Prairie Ridge	Otter Tail	131	44	2	16	13144216	20	3,000	conversion	E
Orwell	Otter Tail	131	44	2	2	1314422	15	2,500	conversion	E
Clay WMA	Clay	138	45	2	22	13845222	80	15,000	woody removal	E
Bjornsen WMA	Clay	138	45	2	15	13845215	80	15,000	woody removal	E

Region 3

Cambridge Areawide

Seed Harvest	various							\$6,000	Seed	E
Graham WMA	Benton	38	30	2	1	383021	23		Woody removal	E
Burleene WMA	Todd	130	35	2	21	13035221	60		Woody removal	E
Kobliska WMA	Todd	131	32	2	4	1313224	112		Woody removal	E
Santer WMA	Todd	128	35	2	1	1283521	42.5		Woody removal	E
Staples WMA	Todd	133	33	2	25	13333225	54		Woody removal	E
RASC WMA	Morrison	39	29	2	13	3929213	4		Woody removal	E
Little Elk WMA	Morrison	130	31	2	19	13031219	57		Woody removal	E
Sheets WMA	Todd	130	33	2	9	1303329	6		Woody removal	E
								\$192,900		

Santer WMA	Todd	128	35	2	1	1283521	4.5		Conversion	E
Grey Eagle WMA	Todd	127	33	2	10	12733210	14		Conversion	E
Graham WMA	Benton	38	30	2	1	383021	17		Conversion	E
Little Elk WMA	Morrison	130	31	2	19	13031219	6		Conversion	E
								\$51,000		

Sauk River WMA	Stearns	126	34	2	27	12634227	11		Conversion	E
Tamarack WMA	Stearns	123	35	2	17	12335217	15		Conversion	E
Kurilla WMA	Stearns	125	32	2	18	12532218	15		Conversion	E
								\$23,000		

Region 4

Cedar Rock WMA	Redwood	113	36	2	11	11336211	110	12,000	Burn	E
Faxvog WMA	Redwood	112	38	2	21	11238221	90	5,000	Burn	E
Beaver Falls WMA	Redwood	113	35	2	24	11335224	100	30,000	Seed	E
Meadowlark WMA	Brown	108	33	2	1	1083321	20	8,000	Seed	E

Attachment C. Parcel List

Halls Lake WMA	Freeborn	103	22	2	29	10322229	8	2400	Seed	E
Gilfillin WMA	Blue Earth	109	25	2	32	10925232	38.5	15,400	Seed	E
Follies WMA	Kandiyohi	122	34	2	35	12234235	86	25,800	Woody removal	E
Lac qui Parle WMA	Big Stone	120	44	2	13	12044213	100	45,000	Woody removal	E
Big Stone WMA	Big Stone	122	46	2	18	12246218	100	25,000	Woody removal	E
Baxter WMA	Lac Qui parle	117	42	2	5	1174225	87	25,000	Woody removal	E
SNA/Eco Projects										
Carney PB	Murray	106	43	2	33,34	10643233	80	\$3,500	Burn	E
Dovray 7 PB	Murray	107	39	2	7	1073927	38	\$2,500	Burn	E
Felton Prairie SNA-Assinaboia	Clay	142	45	2	28	14245228	30	\$18,000	Reconstruct Prairie	R
Foster 34 PB	Big Stone	123	48	2	34	12348234	43	\$2,800	Burn	E
Holly 2/Plum Creek PB	Murray	108	39	2	2	1083922	160	\$4,500	Burn	E
Iron Horse SNA	Dodge	105	17	2	27	10517227	40	\$17,500	Woody removal	E
Moulton 10 PB	Murray	105	43	2	10	10543210	60	\$3,500	Burn	E
Moulton 19 PB	Murray	105	43	2	19	10543219	63	\$2,900	Burn	E
Moulton 5 PB	Murray	105	43	2	5	1054325	112	\$4,300	Burn	E
Prairie Coteau SNA	Pipestone	108	44	2	29,32	10844232	140	\$4,500	Burn	E
Prairie Smoke Dunes SNA	Norman	146	44	2	18	14644218	226	\$135,600	Reconstruct Prairie	R
Racine SNA	Mower	104	14	2	22,23	10414222	8	\$15,000	Woody removal	E
Racine SNA	Mower	104	14	2	22,23	10414222	8	\$2,300	Burn	E
Schellberg PB	Big Stone	121	46	2	1,2	1211621	60	\$4,000	Burn	E
Shooting Star SNA	Mower	101	15	2	13	10115213	9	\$15,000	Woody removal	E
Swede Forest SNA	Yellow Medicine	114	37	2	18 9,10,11,12 ,13,16,17,	11437218	50	\$2,500	Burn	E
Wild Indigo SNA	Mower	103	17	2	18	1031729	60	\$15,000	Herbaceous invasive treatment	E
Wild Indigo SNA	Mower	103	16	2	7,13,14,15 ,16,17, 18	1031627	50	\$4,500	Burn	E
Cannon River Turtle Preserve	Goodhue	113	15	2	19	11315219	10	\$2,450	Burn	E
Cannon River Turtle Preserve	Goodhue	113	15	2	19	11315219	25	\$20,000	Woody removal	E
Mound Prairie	Houston	104	5	2	33	1045233	25	\$2,650	Burn	E
Rushford Sand Barrens	Fillmore	104	8	2	28	1048228	30	\$4,000	Burn	E
Rushford Sand Barrens	Fillmore	104	8	2	28	1048228	25	\$20,000	Woody removal	E
Seminary Fen	Carver	116	23	2	35	11623235	20	\$2,500	Burn	E
Uncas Dunes	Sherburne	34	27	2	28	3427228	20	\$16,000	Woody removal	E
Uncas Dunes	Sherburne	34	27	2	28	3427228	80	\$5,000	Burn	E
State Forest - Reno Unit	Houston	101	4	2	2	101422	10	\$21,000	Woody removal	E
State Forest - Sheldon Unit	Houston	103	7	2	24	1037224	30	\$75,000	Woody removal	E

Note: Projects in the yellow bands are projects that will be let as a single contract.
These are generally projects that are in close proximity of each other.