

Lessard-Sams Outdoor Heritage Council

Laws of Minnesota 2016 Accomplishment Plan



Date: June 30, 2016

Program or Project Title: Jack Pine Forest/Crow Wing River Watershed Habitat Acquisition

Funds Recommended: \$ 3,570,000

Manager's Name: Craig Engwall

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Legislative Citation: ML 2016, Ch. 172, Art. 1, Sec. 2, Subd. 3(b)

Appropriation Language: \$3,570,000 the second year is to the commissioner of natural resources for an agreement with the Minnesota Deer Hunters Association to acquire in fee and restore and enhance forest habitat lands in Cass and Hubbard Counties for county forest purposes. A list of proposed land acquisitions must be provided as part of the required accomplishment plan.

County Locations: Cass, and Hubbard.

Regions in which work will take place:

- Northern Forest

Activity types:

- Protect in Fee
- Restore

Priority resources addressed by activity:

- Forest
- Habitat

Abstract:

This project will protect in fee approximately 1,800 acres of forest habitat that are at significant risk of conversion to row crop agriculture. It will also restore jack pine, an increasingly rare tree species, in the project area.

Design and scope of work:

Problem to be Addressed

The past decade has seen a significant loss of forest habitat within the Crow Wing River Watershed due to the conversion of that habitat to row crop agriculture and other development. The Minnesota Department of Natural Resources (DNR) estimates that about 42 square miles of pine forest have been cleared or are at elevated risk of being cleared and converted to croplands.

These forest lands provide critical habitat for many game and non-game animals, including rare and threatened species. Species that rely on this habitat include white-tailed deer, black bear, ruffed grouse, sharp-tailed grouse, woodcock, wild turkey, bobcats, grey wolves and numerous others. Jack pine stands are interspersed throughout the project area, but are becoming increasingly rare. These jack pine stands are home to a number of unique species including the Northern Goshawk, a species of special concern in Minnesota,

and Blanding's turtle, a state listed threatened species.

The forests in the Crow Wing River Watershed also protect rivers, streams, lakes and ground water by acting as a buffer and a filter of pollutants and chemicals that degrade water quality. A map of the Crow Wing River Watershed is attached (Attachment A).

Goals and Scope of Work

To slow the loss of forest lands and the habitat provided by them, the project will protect by acquisition in fee approximately 1,800 acres of high priority habitat within the Crow Wing River Watershed.

The lands to be protected are currently owned by Potlatch Corporation (Potlatch). The Minnesota Deer Hunters Association (MDHA) and Potlatch have identified over 37,000 acres of Potlatch land within the project area that fulfill the habitat protection goals of the project. See project map attached (Attachment B). Please note that all depicted acres are included within the parcel list so as to make available the best habitat parcels for inclusion in the negotiated purchase list, which should total approximately 1,800 acres.

This Request for Funding seeks an amount sufficient to purchase a portion of the Potlatch lands identified as fulfilling the project goals. The remaining Potlatch parcels that do not receive funding under this application are well-suited to being the focus of a future Request for Funding by MDHA.

MDHA, in evaluating the parcels for selection, will use the following criteria to prioritize those parcels to be included in the project:

- 1) Habitat quality;
- 2) Specific habitat cover-type with an emphasis on jack pine and mixed-age forest lands;
- 3) Immediacy of threat of conversion; and
- 4) Adjacency to other large forest blocks to maximize habitat benefits.

MDHA believes that acquired lands should be managed pursuant to the forest management standards established in previous forest habitat projects funded through the Outdoor Heritage Fund.

To achieve the goals of this project, the acquired fee parcels will be transferred to Cass and Hubbard Counties to hold in fee and manage.

This project also seeks funding (\$150,000) to restore jack pine to the landscape. The total amount of acreage restored will depend upon the number of parcels where jack pine is the native cover type of acquired parcels as well as the appropriate prescription to best restore jack pine to each parcel. The amount of jack pine within the project area has been significantly reduced through a combination of conversion to row crop agriculture or replacement with other forest cover types such as red pine plantation. This loss is depicted by the jack pine distribution map attached (Attachment C). Jack pine is a relatively rare forest type in Minnesota and provides habitat for a number of unique species. It is well-suited to the sandy soil types in the Crow Wing River Watershed. This project will use a number of tools to restore jack pine that may include planting seedlings and aerial seeding as well as prescribed burns for jack pine regeneration.

The acquisition of these parcels and the restoration of jack pine forest will provide significant value beyond the protection of key forest habitat. The project will also benefit water quality by preserving forest cover that helps to filter pollutants from percolating through the sandy soils that are prevalent in the Crow Wing River Watershed. It will provide public access for hunting and recreational activities that currently does not exist. It will enable land managers of adjacent state and county lands to easily access those lands for forest management. And it will provide wood fiber from the land to supply the local mill in Bemidji.

In developing this proposal, MDHA actively engaged the county boards for Cass and Hubbard Counties and sought their support. Each of the County Boards has expressed its endorsement of the project by unanimously passing a resolution supporting it and urging full funding from the Outdoor Heritage Fund. See county support resolutions attached (Attachments D1, D2, D3).

Project partners include The Conservation Fund (TCF) and the Ruffed Grouse Society. MDHA, along with its conservation partners, will seek private contributions for the project at a national scale to leverage the funding provided from the Outdoor Heritage Fund. TCF will assist MDHA in the land acquisition process. MDHA will continue to work with the counties and other conservation partners to continuously improve this project as it progresses.

How does the request address MN habitats that have: historical value to fish and wildlife, wildlife species of greatest conservation need, MN County Biological Survey data, and/or rare, threatened and endangered species inventories:

Jack pine has been identified by DNR as a high priority for conservation. A portion of the project area is within the Chippewa Plains Important Bird Area (IBA) as designated by Minnesota Audubon. This project will protect habitat for a number of species of concern including the Northern Goshawk, Golden-winged Warbler and Blanding's turtle. Minnesota County Biological Survey data as well as rare species will be a component of the site selection process as MDHA and partners develop the final acquisition plan.

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

The lands in question are actively being sold for the purpose of recreation or habitat conversion. These lands are vital to the preservation of water quality, conservation of rare species habitat, protection of game habitat and the local wood products economy. Without swift action this opportunity will be forever lost.

Describe the science based planning and evaluation model used:

MDHA is using the best scientific data available from the MN DNR, USFWS and other sources to make informed decisions as to which parcels are the highest priority. Only those that are evaluated to make the largest impact to habitat conservation will be selected for acquisition.

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

- H1 Protect priority land habitats
- LU8 Protect large blocks of forest land

Which other plans are addressed in this proposal:

- Minnesota Forest Resource Council Landscape Plans
- Outdoor Heritage Fund: A 25 Year Framework

Which LSOHC section priorities are addressed in this proposal:

Northern Forest:

- Provide access to manage habitat on landlocked public properties or protect forest land from parcelization and fragmentation through fee acquisition, conservation or access easement

Relationship to other funds:

- Not Listed

Describe the relationship of the funds:

Not Listed

How does this proposal accelerate or supplement your current efforts in this area:

This project complements, but does not duplicate, funded DNR projects (Protecting Pinelands Sands Forest and Aquatic Habitat) and greatly expands upon six smaller habitat projects undertaken by MDHA in the project area through the Conservation Partners Legacy (CPL) program. Projects are described further in MDHA habitat efforts attachment (Attachment E).

Describe the source and amount of non-OHF money spent for this work in the past:

Not Listed

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

The Cass and Hubbard County Land Departments have extensive experience in forest management. Both departments will manage project lands.

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

Year	Source of Funds	Step 1	Step 2	Step 3
2018 and ongoing	Cass and Hubbard County	Manage and monitor lands consistent with forest certification and management plans		

Activity Details:

If funded, this proposal will meet all applicable criteria set forth in MS 97A.056 - **Yes**

Will there be planting of corn or any crop on OHF land purchased or restored in this program - **No**

Will local government approval be sought prior to acquisition - **Yes**

Is the land you plan to acquire free of any other permanent protection - **Yes**

Is this land currently open for hunting and fishing - **No**

Will the land be open for hunting and fishing after completion - **Yes**

State of MN regulations will apply to these lands.

Are there currently trails or roads on any of the acquisitions on the parcel list - **Yes**

Describe the types of trails or roads and the allowable uses:

There are existing routes on potential project parcels that were developed for timber harvest and management purposes. In addition to forestry related activities, these routes have been used by hunters and others for recreation, and some of that use has included ATV travel. In the Council Memo these routes were referred to as tote roads.

Will the trails or roads remain and uses continue to be allowed after OHF acquisition - **Yes**

How will maintenance and monitoring be accomplished:

The counties will do this pursuant to their forest management plans.

Will new trails or roads be developed as a result of the OHF acquisition - **Yes**

Describe the types of trails or roads and the allowable uses:

Temporary tote roads may be developed pursuant to county forest management plans.

How will maintenance and monitoring be accomplished:

Maintenance and monitoring will be done according to the County Land Departments certification and management plans.

Will restoration and enhancement work follow best management practices including MS 84.973 Pollinator Habitat Program - **Yes**

Is the activity on permanently protected land per 97A.056, subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15 - **Yes**
(**Private Land, County/Municipal**)

Accomplishment Timeline:

Activity	Approximate Date Completed
Negotiate with land owner and enter in to purchase agreement.	August 2016
Conduct due diligence for acquisition of the properties (appraisal, title work etc.).	November 2016
Acquire fee title to the properties.	June 2017
Restoration of lands.	June 2018

Date of Final Report Submission: 11/1/2019

Federal Funding:

Do you anticipate federal funds as a match for this program - **No**

Outcomes:

Programs in the northern forest region:

- Forestlands are protected from development and fragmentation *These forest lands will be permanently protected from conversion to non-*

forest uses and will be managed pursuant to an approved forest management plan.

Budget Spreadsheet

Budget reallocations up to 10% do not require an amendment to the Accomplishment Plan

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount

The amount of acres acquired and restored will be decreased proportionate to the decrease in the recommended appropriation.

Total Amount of Request: \$ 3570000

Budget and Cash Leverage

Budget Name	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$89,300	\$0		\$89,300
Contracts	\$153,100	\$58,000	Private	\$211,100
Fee Acquisition w/ PILT	\$0	\$0		\$0
Fee Acquisition w/o PILT	\$3,258,000	\$116,000	Private	\$3,374,000
Easement Acquisition	\$0	\$0		\$0
Easement Stewardship	\$0	\$0		\$0
Travel	\$0	\$0		\$0
Professional Services	\$52,200	\$0		\$52,200
Direct Support Services	\$0	\$0		\$0
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$0	\$0		\$0
Supplies/Materials	\$17,400	\$0		\$17,400
DNR IDP	\$0	\$0		\$0
Total	\$3,570,000	\$174,000		\$3,744,000

Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Grant Manager	0.17	3.00	\$62,300	\$0		\$62,300
Fiscal Agent	0.07	3.00	\$14,600	\$0		\$14,600
Project Manager	0.07	3.00	\$12,400	\$0		\$12,400
Total	0.31	9.00	\$89,300	\$0		\$89,300

Amount of Request: \$3,570,000

Amount of Leverage: \$174,000

Leverage as a percent of the Request: 4.87%

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	1,800	0	1,800
Protect in Easement	0	0	0	0	0
Enhance	0	0	0	0	0
Total	0	0	1,800	0	1,800

Table 2. Total Requested Funding by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$0	\$150,000	\$0	\$150,000
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$3,420,000	\$0	\$3,420,000
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$3,570,000	\$0	\$3,570,000

Table 3. Acres within each Ecological Section

Type	Metro Urban	ForestPrairie	SE Forest	Prairie	N Forest	Total
Restore	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	1,800	1,800
Protect in Easement	0	0	0	0	0	0
Enhance	0	0	0	0	0	0
Total	0	0	0	0	1,800	1,800

Table 4. Total Requested Funding within each Ecological Section

Type	Metro Urban	ForestPrairie	SE Forest	Prairie	N Forest	Total
Restore	\$0	\$0	\$0	\$0	\$150,000	\$150,000
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	\$3,420,000	\$3,420,000
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0	\$3,570,000	\$3,570,000

Table 5. Average Cost per Acre by Resource Type

Type	Wetlands	Prairies	Forest	Habitats
Restore	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$1900	\$0
Protect in Easement	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0

Table 6. Average Cost per Acre by Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest
Restore	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$1900
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0	\$0

Target Lake/Stream/River Feet or Miles

0

Parcel List

For restoration and enhancement programs ONLY: 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.

Section 1 - Restore / Enhance Parcel List

No parcels with an activity type restore or enhance.

Section 2 - Protect Parcel List

Cass

Name	TRDS	Acres	Est Cost	Existing Protection?	Hunting?	Fishing?
Cass1	13731204	40	\$72,000	No	No	not applicable
Cass10	13931206	32	\$57,600	No	No	not applicable
Cass100	13632227	40	\$72,000	No	No	not applicable
Cass101	13632227	40	\$72,000	No	No	not applicable
Cass102	13632228	40	\$72,000	No	No	not applicable
Cass103	13632228	36	\$64,530	No	No	not applicable
Cass104	13632228	40	\$72,000	No	No	not applicable
Cass105	13632229	40	\$72,000	No	No	not applicable
Cass106	13632229	40	\$72,000	No	No	not applicable
Cass107	13632229	40	\$72,000	No	No	not applicable
Cass108	13632229	40	\$72,000	No	No	not applicable
Cass109	13632229	40	\$72,000	No	No	not applicable
Cass11	14031220	40	\$72,000	No	No	not applicable
Cass110	13632229	40	\$72,000	No	No	not applicable
Cass111	13632229	40	\$72,000	No	No	not applicable
Cass112	13632230	40	\$72,000	No	No	not applicable
Cass113	13632230	40	\$72,000	No	No	not applicable
Cass114	13632230	40	\$72,000	No	No	not applicable
Cass115	13632230	40	\$72,000	No	No	not applicable
Cass116	13632230	40	\$72,000	No	No	not applicable
Cass117	13632230	40	\$72,000	No	No	not applicable
Cass118	13632230	28	\$49,878	No	No	not applicable
Cass119	13632230	27	\$49,392	No	No	not applicable
Cass12	14031220	40	\$72,000	No	No	not applicable
Cass120	13632230	40	\$72,000	No	No	not applicable
Cass121	13632230	40	\$72,000	No	No	not applicable
Cass122	13632231	40	\$72,000	No	No	not applicable
Cass123	13632231	40	\$72,000	No	No	not applicable
Cass124	13632231	40	\$72,000	No	No	not applicable
Cass125	13632231	40	\$72,000	No	No	not applicable
Cass126	13632231	40	\$72,000	No	No	not applicable
Cass127	13632232	40	\$72,000	No	No	not applicable
Cass128	13632232	40	\$72,000	No	No	not applicable
Cass129	13632232	40	\$72,000	No	No	not applicable
Cass13	14031220	40	\$72,000	No	No	not applicable
Cass130	13632232	40	\$72,000	No	No	not applicable
Cass131	13632232	40	\$72,000	No	No	not applicable
Cass132	13632232	40	\$72,000	No	No	not applicable
Cass133	13632232	40	\$72,000	No	No	not applicable
Cass134	13632232	40	\$72,000	No	No	not applicable
Cass135	13632232	40	\$72,000	No	No	not applicable
Cass136	13632233	40	\$72,000	No	No	not applicable
Cass137	13632233	40	\$72,000	No	No	not applicable
Cass138	13732201	40	\$72,522	No	No	not applicable
Cass139	13732201	40	\$72,702	No	No	not applicable
Cass14	14031220	40	\$72,000	No	No	not applicable
Cass140	13732201	40	\$72,000	No	No	not applicable
Cass141	13732201	40	\$72,000	No	No	not applicable
Cass142	13732201	40	\$72,000	No	No	not applicable
Cass143	13732201	40	\$72,000	No	No	not applicable
Cass144	13732202	40	\$72,558	No	No	not applicable
Cass145	13732202	40	\$72,090	No	No	not applicable
Cass146	13732202	40	\$72,000	No	No	not applicable
Cass147	13732203	39	\$69,750	No	No	not applicable
Cass148	13732203	40	\$72,324	No	No	not applicable
Cass149	13732203	41	\$73,278	No	No	not applicable
Cass15	14031220	40	\$72,000	No	No	not applicable
Cass150	13732203	40	\$72,000	No	No	not applicable
Cass151	13732203	40	\$72,000	No	No	not applicable
Cass152	13732203	40	\$72,000	No	No	not applicable

Cass153	13732212	40	\$72,000	No	No	not applicable
Cass154	13732224	40	\$72,000	No	No	not applicable
Cass155	13832202	40	\$72,000	No	No	not applicable
Cass156	13832202	38	\$68,400	No	No	not applicable
Cass157	13832202	40	\$72,000	No	No	not applicable
Cass158	13832202	40	\$72,000	No	No	not applicable
Cass159	13832202	40	\$72,000	No	No	not applicable
Cass16	14031220	40	\$72,000	No	No	not applicable
Cass160	13832203	40	\$72,000	No	No	not applicable
Cass161	13832208	40	\$72,000	No	No	not applicable
Cass162	13832208	40	\$72,000	No	No	not applicable
Cass163	13832210	40	\$72,000	No	No	not applicable
Cass164	13832210	40	\$72,000	No	No	not applicable
Cass165	13832210	40	\$72,000	No	No	not applicable
Cass166	13832211	40	\$72,000	No	No	not applicable
Cass167	13832211	38	\$67,680	No	No	not applicable
Cass168	13832211	40	\$72,000	No	No	not applicable
Cass169	13832211	40	\$72,000	No	No	not applicable
Cass17	14031220	36	\$64,800	No	No	not applicable
Cass170	13832211	38	\$67,680	No	No	not applicable
Cass171	13832211	38	\$67,680	No	No	not applicable
Cass172	13832211	40	\$72,000	No	No	not applicable
Cass173	13832211	40	\$72,000	No	No	not applicable
Cass174	13832213	40	\$72,000	No	No	not applicable
Cass175	13832213	40	\$72,000	No	No	not applicable
Cass176	13832213	40	\$72,000	No	No	not applicable
Cass177	13832214	40	\$72,000	No	No	not applicable
Cass178	13832214	40	\$72,000	No	No	not applicable
Cass179	13832214	40	\$72,000	No	No	not applicable
Cass18	14031229	39	\$70,614	No	No	not applicable
Cass180	13832214	40	\$72,000	No	No	not applicable
Cass181	13832214	40	\$72,000	No	No	not applicable
Cass182	13832214	40	\$72,000	No	No	not applicable
Cass183	13832214	40	\$72,000	No	No	not applicable
Cass184	13832214	40	\$72,000	No	No	not applicable
Cass185	13832215	40	\$72,000	No	No	not applicable
Cass186	13832215	40	\$72,000	No	No	not applicable
Cass187	13832215	40	\$72,000	No	No	not applicable
Cass188	13832215	40	\$72,000	No	No	not applicable
Cass189	13832215	40	\$72,000	No	No	not applicable
Cass19	14031229	39	\$70,650	No	No	not applicable
Cass190	13832215	40	\$72,000	No	No	not applicable
Cass191	13832215	40	\$72,000	No	No	not applicable
Cass192	13832215	40	\$72,000	No	No	not applicable
Cass193	13832215	40	\$72,000	No	No	not applicable
Cass194	13832215	40	\$72,000	No	No	not applicable
Cass195	13832215	40	\$72,000	No	No	not applicable
Cass196	13832223	40	\$72,000	No	No	not applicable
Cass197	13832223	40	\$72,000	No	No	not applicable
Cass198	13832223	40	\$72,000	No	No	not applicable
Cass199	13832223	40	\$72,000	No	No	not applicable
Cass2	13731204	40	\$72,000	No	No	not applicable
Cass20	14031229	40	\$72,000	No	No	not applicable
Cass200	13832223	40	\$72,000	No	No	not applicable
Cass201	13832224	40	\$72,000	No	No	not applicable
Cass202	13832224	40	\$72,000	No	No	not applicable
Cass203	13832224	40	\$72,000	No	No	not applicable
Cass204	13832224	40	\$72,000	No	No	not applicable
Cass205	13832224	40	\$72,000	No	No	not applicable
Cass206	13832224	40	\$72,000	No	No	not applicable
Cass207	13832224	40	\$72,000	No	No	not applicable
Cass208	13832224	40	\$72,000	No	No	not applicable

Cass209	13832224	40	\$72,000	No	No	not applicable
Cass21	14031229	40	\$72,000	No	No	not applicable
Cass210	13832224	40	\$72,000	No	No	not applicable
Cass211	13832225	40	\$72,000	No	No	not applicable
Cass212	13832225	40	\$72,000	No	No	not applicable
Cass213	13832225	40	\$72,000	No	No	not applicable
Cass214	13832225	40	\$72,000	No	No	not applicable
Cass215	13832225	40	\$72,000	No	No	not applicable
Cass216	13832225	40	\$72,000	No	No	not applicable
Cass217	13832225	40	\$72,000	No	No	not applicable
Cass218	13832225	40	\$72,000	No	No	not applicable
Cass219	13832225	40	\$72,000	No	No	not applicable
Cass22	14031230	39	\$70,524	No	No	not applicable
Cass220	13832226	40	\$72,000	No	No	not applicable
Cass221	13832226	40	\$72,000	No	No	not applicable
Cass222	13832226	40	\$72,000	No	No	not applicable
Cass223	13832226	40	\$72,000	No	No	not applicable
Cass224	13832226	40	\$72,000	No	No	not applicable
Cass225	13832226	40	\$72,000	No	No	not applicable
Cass226	13832226	40	\$72,000	No	No	not applicable
Cass227	13832226	40	\$72,000	No	No	not applicable
Cass228	13832226	40	\$72,000	No	No	not applicable
Cass229	13832226	40	\$72,000	No	No	not applicable
Cass23	14031230	39	\$70,200	No	No	not applicable
Cass230	13832226	38	\$67,680	No	No	not applicable
Cass231	13832226	38	\$67,680	No	No	not applicable
Cass232	13832226	40	\$72,000	No	No	not applicable
Cass233	13832226	40	\$72,000	No	No	not applicable
Cass234	13832227	40	\$72,000	No	No	not applicable
Cass235	13832227	40	\$72,000	No	No	not applicable
Cass236	13832227	40	\$72,000	No	No	not applicable
Cass237	13832227	40	\$72,000	No	No	not applicable
Cass238	13832227	40	\$72,000	No	No	not applicable
Cass239	13832227	40	\$72,000	No	No	not applicable
Cass24	14031231	40	\$71,334	No	No	not applicable
Cass240	13832227	40	\$72,000	No	No	not applicable
Cass241	13832227	40	\$72,000	No	No	not applicable
Cass242	13832227	40	\$72,000	No	No	not applicable
Cass243	13832227	40	\$72,000	No	No	not applicable
Cass244	13832227	40	\$72,000	No	No	not applicable
Cass245	13832227	40	\$72,000	No	No	not applicable
Cass246	13832227	40	\$72,000	No	No	not applicable
Cass247	13832227	40	\$72,000	No	No	not applicable
Cass248	13832228	40	\$72,000	No	No	not applicable
Cass249	13832228	40	\$72,000	No	No	not applicable
Cass25	14031231	39	\$70,290	No	No	not applicable
Cass250	13832228	40	\$72,000	No	No	not applicable
Cass251	13832228	40	\$72,000	No	No	not applicable
Cass252	13832228	40	\$72,000	No	No	not applicable
Cass253	13832228	40	\$72,000	No	No	not applicable
Cass254	13832228	40	\$72,000	No	No	not applicable
Cass255	13832234	20	\$36,000	No	No	not applicable
Cass256	13832234	40	\$72,000	No	No	not applicable
Cass257	13832234	38	\$68,688	No	No	not applicable
Cass258	13832234	40	\$72,000	No	No	not applicable
Cass259	13832234	40	\$72,000	No	No	not applicable
Cass26	14031234	40	\$72,000	No	No	not applicable
Cass260	13832234	38	\$67,500	No	No	not applicable
Cass27	14031235	40	\$72,000	No	No	no
Cass28	14031235	40	\$72,000	No	No	not applicable
Cass29	13432203	40	\$72,000	No	No	not applicable
Cass3	13931206	37	\$66,600	No	No	not applicable

Cass30	13432203	40	\$72,000	No	No	not applicable
Cass31	13432204	40	\$72,000	No	No	not applicable
Cass32	13432205	40	\$72,000	No	No	not applicable
Cass33	13432205	40	\$72,000	No	No	not applicable
Cass34	13432205	40	\$72,000	No	No	not applicable
Cass35	13432205	40	\$72,000	No	No	not applicable
Cass36	13432210	40	\$72,000	No	No	not applicable
Cass37	13532205	40	\$72,000	No	No	not applicable
Cass38	13532206	40	\$72,000	No	No	no
Cass39	13532208	40	\$72,000	No	No	not applicable
Cass4	13931206	38	\$68,220	No	No	not applicable
Cass40	13532208	40	\$72,000	No	No	not applicable
Cass41	13532208	40	\$72,000	No	No	not applicable
Cass42	13532208	40	\$72,000	No	No	not applicable
Cass43	13532208	40	\$72,000	No	No	not applicable
Cass44	13532209	40	\$72,000	No	No	not applicable
Cass45	13532209	40	\$72,000	No	No	not applicable
Cass46	13532209	39	\$69,840	No	No	not applicable
Cass47	13532217	40	\$72,000	No	No	not applicable
Cass48	13532217	40	\$72,000	No	No	not applicable
Cass49	13532204	43	\$76,716	No	No	not applicable
Cass5	13931206	39	\$69,732	No	No	not applicable
Cass50	13532204	43	\$76,734	No	No	not applicable
Cass51	13532204	40	\$72,000	No	No	not applicable
Cass52	13532204	40	\$72,000	No	No	not applicable
Cass53	13532204	40	\$72,000	No	No	not applicable
Cass54	13532204	40	\$72,000	No	No	not applicable
Cass55	13532204	40	\$72,000	No	No	not applicable
Cass56	13532205	43	\$77,220	No	No	not applicable
Cass57	13532205	40	\$72,000	No	No	not applicable
Cass58	13532205	40	\$72,000	No	No	not applicable
Cass59	13532205	40	\$72,000	No	No	not applicable
Cass6	13931206	40	\$72,000	No	No	not applicable
Cass60	13532205	40	\$72,000	No	No	not applicable
Cass61	13532205	40	\$72,000	No	No	not applicable
Cass62	13532205	40	\$72,000	No	No	not applicable
Cass63	13532205	40	\$72,000	No	No	not applicable
Cass64	13532205	20	\$36,000	No	No	not applicable
Cass65	13532205	40	\$72,000	No	No	not applicable
Cass66	13532205	40	\$72,000	No	No	not applicable
Cass67	13532206	44	\$79,200	No	No	not applicable
Cass68	13532220	40	\$72,000	No	No	not applicable
Cass69	13532220	40	\$72,000	No	No	not applicable
Cass7	13931206	40	\$72,000	No	No	not applicable
Cass70	13532220	40	\$72,000	No	No	not applicable
Cass71	13532220	40	\$72,000	No	No	not applicable
Cass72	13532220	40	\$72,000	No	No	not applicable
Cass73	13532220	40	\$72,000	No	No	not applicable
Cass74	13532220	40	\$72,000	No	No	not applicable
Cass75	13532220	40	\$72,000	No	No	not applicable
Cass76	13532220	40	\$72,000	No	No	not applicable
Cass77	13532220	40	\$72,000	No	No	not applicable
Cass78	13532220	40	\$72,000	No	No	not applicable
Cass79	13532221	40	\$72,000	No	No	not applicable
Cass8	13931207	40	\$72,000	No	No	no
Cass80	13532221	40	\$72,000	No	No	not applicable
Cass81	13532229	40	\$72,000	No	No	not applicable
Cass82	13532229	40	\$72,000	No	No	not applicable
Cass83	13532229	40	\$72,000	No	No	not applicable
Cass84	13532229	40	\$72,000	No	No	not applicable
Cass85	13532230	40	\$72,000	No	No	not applicable
Cass86	13532232	40	\$72,000	No	No	not applicable

Cass87	13532232	40	\$72,000	No	No	not applicable
Cass88	13532232	40	\$72,000	No	No	not applicable
Cass89	13532232	40	\$72,000	No	No	not applicable
Cass9	13931207	40	\$72,000	No	No	not applicable
Cass90	13532232	40	\$72,000	No	No	not applicable
Cass91	13532232	40	\$72,000	No	No	not applicable
Cass92	13632220	40	\$72,000	No	No	not applicable
Cass93	13632221	40	\$72,000	No	No	not applicable
Cass94	13632229	40	\$72,000	No	No	not applicable
Cass95	13632228	34	\$61,290	No	No	not applicable
Cass96	13632221	40	\$72,000	No	No	not applicable
Cass97	13632223	39	\$70,200	No	No	not applicable
Cass98	13632223	40	\$72,000	No	No	not applicable
Cass99	13632227	40	\$72,000	No	No	not applicable

Hubbard

Name	TRDS	Acres	Est Cost	Existing Protection?	Hunting?	Fishing?
Hubbard1	13932210	40	\$72,000	No	No	not applicable
Hubbard10	13932201	17	\$31,086	No	No	not applicable
Hubbard100	13932229	40	\$72,000	No	No	not applicable
Hubbard101	13932229	40	\$72,000	No	No	not applicable
Hubbard102	13932230	40	\$72,000	No	No	not applicable
Hubbard103	13932230	43	\$77,454	No	No	not applicable
Hubbard104	13932230	43	\$77,418	No	No	not applicable
Hubbard105	13932230	40	\$72,000	No	No	not applicable
Hubbard106	13932231	40	\$72,000	No	No	not applicable
Hubbard107	13932231	20	\$36,000	No	No	not applicable
Hubbard108	13932231	43	\$77,310	No	No	not applicable
Hubbard109	13932231	43	\$76,950	No	No	not applicable
Hubbard11	13932201	40	\$72,000	No	No	not applicable
Hubbard110	13932231	40	\$72,000	No	No	not applicable
Hubbard111	13932231	40	\$72,000	No	No	not applicable
Hubbard112	13932231	40	\$72,000	No	No	not applicable
Hubbard113	13932231	43	\$76,626	No	No	not applicable
Hubbard114	13932231	42	\$76,302	No	No	not applicable
Hubbard115	13932231	40	\$72,000	No	No	not applicable
Hubbard116	13932231	40	\$72,000	No	No	not applicable
Hubbard117	13932232	40	\$72,000	No	No	not applicable
Hubbard118	13932203	26	\$47,142	No	No	not applicable
Hubbard119	13932203	32	\$57,564	No	No	not applicable
Hubbard12	13932201	40	\$72,000	No	No	not applicable
Hubbard120	13932212	40	\$72,000	No	No	not applicable
Hubbard121	13932212	40	\$72,000	No	No	not applicable
Hubbard122	13932210	38	\$67,608	No	No	not applicable
Hubbard123	13932210	38	\$67,518	No	No	not applicable
Hubbard124	13932210	38	\$67,698	No	No	not applicable
Hubbard125	13932211	38	\$67,716	No	No	not applicable
Hubbard126	13932212	18	\$31,608	No	No	not applicable
Hubbard127	13932212	18	\$31,572	No	No	not applicable
Hubbard128	13932212	38	\$67,644	No	No	not applicable
Hubbard129	14032213	40	\$72,000	No	No	not applicable
Hubbard13	13932201	40	\$72,000	No	No	not applicable
Hubbard130	14032213	40	\$72,000	No	No	not applicable
Hubbard131	14032213	40	\$72,000	No	No	not applicable
Hubbard132	14032214	40	\$72,000	No	No	not applicable
Hubbard133	14032214	40	\$72,000	No	No	not applicable
Hubbard134	14032214	40	\$72,000	No	No	not applicable
Hubbard135	14032214	40	\$72,000	No	No	not applicable
Hubbard136	14032214	40	\$72,000	No	No	not applicable
Hubbard137	14032214	20	\$36,000	No	No	not applicable
Hubbard138	14032215	40	\$72,000	No	No	not applicable
Hubbard139	14032215	40	\$72,000	No	No	not applicable
Hubbard14	13932201	20	\$36,000	No	No	not applicable
Hubbard140	14032215	40	\$72,000	No	No	not applicable
Hubbard141	14032215	18	\$32,238	No	No	not applicable
Hubbard142	14032215	40	\$72,000	No	No	not applicable
Hubbard143	14032215	40	\$72,000	No	No	not applicable
Hubbard144	14032216	40	\$72,000	No	No	not applicable
Hubbard145	14032216	40	\$72,000	No	No	not applicable
Hubbard146	14032216	40	\$72,000	No	No	not applicable
Hubbard147	14032216	40	\$72,000	No	No	not applicable
Hubbard148	14032216	38	\$68,220	No	No	not applicable
Hubbard149	14032216	40	\$72,000	No	No	not applicable
Hubbard15	13932201	37	\$65,934	No	No	not applicable
Hubbard150	14032216	40	\$72,000	No	No	not applicable
Hubbard151	14032220	40	\$72,000	No	No	not applicable
Hubbard152	14032220	40	\$72,000	No	No	not applicable

Hubbard153	14032221	40	\$72,000	No	No	not applicable
Hubbard154	14032221	40	\$72,000	No	No	not applicable
Hubbard155	14032221	40	\$72,000	No	No	not applicable
Hubbard156	14032221	40	\$72,000	No	No	not applicable
Hubbard157	14032221	39	\$70,128	No	No	not applicable
Hubbard158	14032221	40	\$72,000	No	No	not applicable
Hubbard159	14032221	40	\$72,000	No	No	not applicable
Hubbard16	13932203	33	\$60,012	No	No	not applicable
Hubbard160	14032221	40	\$72,000	No	No	not applicable
Hubbard161	14032221	40	\$72,000	No	No	not applicable
Hubbard162	14032221	40	\$72,000	No	No	not applicable
Hubbard163	14032221	40	\$72,000	No	No	not applicable
Hubbard164	14032221	39	\$70,110	No	No	not applicable
Hubbard165	14032222	40	\$72,000	No	No	not applicable
Hubbard166	14032222	40	\$72,000	No	No	not applicable
Hubbard167	14032222	39	\$70,560	No	No	not applicable
Hubbard168	14032223	40	\$72,000	No	No	not applicable
Hubbard169	14032223	20	\$36,000	No	No	not applicable
Hubbard17	13932203	40	\$72,000	No	No	not applicable
Hubbard170	14032223	20	\$36,000	No	No	not applicable
Hubbard171	14032223	40	\$72,000	No	No	not applicable
Hubbard172	14032223	40	\$72,000	No	No	not applicable
Hubbard173	14032223	35	\$63,000	No	No	not applicable
Hubbard174	14032223	39	\$70,488	No	No	not applicable
Hubbard175	14032223	40	\$71,478	No	No	not applicable
Hubbard176	14032224	40	\$72,000	No	No	not applicable
Hubbard177	14032224	40	\$72,000	No	No	not applicable
Hubbard178	14032224	40	\$72,000	No	No	not applicable
Hubbard179	14032224	40	\$72,000	No	No	not applicable
Hubbard18	13932204	32	\$57,564	No	No	not applicable
Hubbard180	14032224	39	\$70,542	No	No	not applicable
Hubbard181	14032225	39	\$70,650	No	No	not applicable
Hubbard182	14032225	40	\$72,000	No	No	not applicable
Hubbard183	14032225	40	\$72,000	No	No	not applicable
Hubbard184	14032225	40	\$72,000	No	No	not applicable
Hubbard185	14032226	39	\$70,704	No	No	not applicable
Hubbard186	14032226	20	\$36,000	No	No	not applicable
Hubbard187	14032226	20	\$36,000	No	No	not applicable
Hubbard188	14032226	40	\$72,000	No	No	not applicable
Hubbard189	14032226	40	\$72,000	No	No	not applicable
Hubbard19	13932204	34	\$61,578	No	No	not applicable
Hubbard190	14032226	40	\$72,000	No	No	not applicable
Hubbard191	14032226	40	\$72,000	No	No	not applicable
Hubbard192	14032226	40	\$72,000	No	No	not applicable
Hubbard193	14032226	40	\$72,000	No	No	not applicable
Hubbard194	14032226	38	\$68,292	No	No	not applicable
Hubbard195	14032227	29	\$52,866	No	No	not applicable
Hubbard196	14032227	30	\$54,000	No	No	not applicable
Hubbard197	14032227	40	\$72,000	No	No	not applicable
Hubbard198	14032227	40	\$72,000	No	No	not applicable
Hubbard199	14032228	40	\$72,000	No	No	not applicable
Hubbard2	13932210	40	\$72,000	No	No	not applicable
Hubbard20	13932205	35	\$62,478	No	No	not applicable
Hubbard200	14032228	40	\$72,000	No	No	not applicable
Hubbard201	14032204	37	\$66,348	No	No	no
Hubbard202	14032204	40	\$72,000	No	No	not applicable
Hubbard203	14032228	40	\$72,000	No	No	not applicable
Hubbard204	14032228	40	\$72,000	No	No	not applicable
Hubbard205	14032229	40	\$72,000	No	No	not applicable
Hubbard206	14032229	36	\$64,350	No	No	not applicable
Hubbard207	14032229	40	\$72,000	No	No	not applicable
Hubbard208	14032229	40	\$72,000	No	No	not applicable

Hubbard209	14032230	22	\$39,600	No	No	not applicable
Hubbard21	13932205	35	\$63,018	No	No	not applicable
Hubbard210	14032230	36	\$64,170	No	No	not applicable
Hubbard211	14032231	5	\$8,460	No	No	not applicable
Hubbard212	14032231	24	\$42,300	No	No	not applicable
Hubbard213	14032231	41	\$74,052	No	No	not applicable
Hubbard214	14032231	38	\$67,626	No	No	not applicable
Hubbard215	14032231	40	\$72,000	No	No	not applicable
Hubbard216	14032231	40	\$72,000	No	No	not applicable
Hubbard217	14032231	40	\$72,000	No	No	not applicable
Hubbard218	14032231	40	\$72,000	No	No	not applicable
Hubbard219	14032232	40	\$72,000	No	No	not applicable
Hubbard22	13932205	35	\$63,558	No	No	not applicable
Hubbard220	14032232	40	\$72,000	No	No	not applicable
Hubbard221	14032233	40	\$72,000	No	No	not applicable
Hubbard222	14032233	38	\$68,760	No	No	not applicable
Hubbard223	14032233	20	\$35,280	No	No	not applicable
Hubbard224	14032233	20	\$36,000	No	No	not applicable
Hubbard225	14032233	40	\$72,000	No	No	not applicable
Hubbard226	14032234	39	\$70,128	No	No	not applicable
Hubbard227	14032234	39	\$70,110	No	No	not applicable
Hubbard228	14032234	40	\$72,000	No	No	not applicable
Hubbard229	14032234	40	\$72,000	No	No	not applicable
Hubbard23	13932205	36	\$64,098	No	No	not applicable
Hubbard230	14032234	40	\$72,000	No	No	not applicable
Hubbard231	14032234	40	\$72,000	No	No	not applicable
Hubbard232	14032235	40	\$72,000	No	No	no
Hubbard233	14032235	40	\$72,000	No	No	not applicable
Hubbard234	14032235	40	\$72,000	No	No	not applicable
Hubbard235	14032235	40	\$72,000	No	No	not applicable
Hubbard236	14132233	40	\$72,000	No	No	not applicable
Hubbard237	14132233	40	\$72,000	No	No	not applicable
Hubbard238	14132236	40	\$72,000	No	No	not applicable
Hubbard239	14132236	40	\$72,000	No	No	not applicable
Hubbard24	13932205	40	\$72,000	No	No	not applicable
Hubbard240	14132236	40	\$72,000	No	No	not applicable
Hubbard241	14132236	40	\$72,000	No	No	not applicable
Hubbard242	14132236	40	\$72,000	No	No	not applicable
Hubbard243	14132236	40	\$72,000	No	No	not applicable
Hubbard244	13933201	40	\$72,000	No	No	not applicable
Hubbard245	13933201	40	\$72,000	No	No	not applicable
Hubbard246	13933201	40	\$72,000	No	No	not applicable
Hubbard247	13933201	40	\$72,000	No	No	not applicable
Hubbard248	13933211	30	\$54,000	No	No	not applicable
Hubbard249	13933211	30	\$54,000	No	No	not applicable
Hubbard25	13932205	40	\$72,000	No	No	not applicable
Hubbard250	13933212	40	\$72,000	No	No	not applicable
Hubbard251	13933212	25	\$45,360	No	No	not applicable
Hubbard252	13933212	40	\$72,000	No	No	not applicable
Hubbard253	13933212	40	\$72,000	No	No	not applicable
Hubbard254	13933212	38	\$68,400	No	No	not applicable
Hubbard255	13933212	32	\$58,212	No	No	not applicable
Hubbard256	13933212	19	\$34,020	No	No	not applicable
Hubbard257	13933213	40	\$72,000	No	No	not applicable
Hubbard258	13933213	40	\$72,000	No	No	not applicable
Hubbard259	13933213	40	\$72,000	No	No	not applicable
Hubbard26	13932205	40	\$72,000	No	No	not applicable
Hubbard260	13933213	40	\$72,000	No	No	not applicable
Hubbard261	13933213	40	\$72,000	No	No	not applicable
Hubbard262	13933213	40	\$72,000	No	No	not applicable
Hubbard263	13933213	26	\$46,476	No	No	not applicable
Hubbard264	13933224	40	\$72,000	No	No	not applicable

Hubbard265	13933224	40	\$72,000	No	No	not applicable
Hubbard266	13933224	20	\$36,000	No	No	not applicable
Hubbard267	13933224	40	\$72,000	No	No	not applicable
Hubbard268	13933224	40	\$72,000	No	No	not applicable
Hubbard269	13933224	40	\$72,000	No	No	not applicable
Hubbard27	13932205	40	\$72,000	No	No	not applicable
Hubbard270	13933224	40	\$72,000	No	No	not applicable
Hubbard271	13933225	40	\$72,000	No	No	not applicable
Hubbard272	13933225	40	\$72,000	No	No	not applicable
Hubbard273	13933225	40	\$72,000	No	No	not applicable
Hubbard274	13933225	40	\$72,000	No	No	not applicable
Hubbard275	13933225	40	\$72,000	No	No	not applicable
Hubbard276	13933225	40	\$72,000	No	No	not applicable
Hubbard277	13933225	40	\$72,000	No	No	not applicable
Hubbard278	13933225	40	\$72,000	No	No	not applicable
Hubbard279	13933225	40	\$72,000	No	No	not applicable
Hubbard28	13932206	36	\$65,286	No	No	not applicable
Hubbard280	13933226	40	\$72,000	No	No	not applicable
Hubbard281	13933226	40	\$72,000	No	No	not applicable
Hubbard282	13933226	40	\$72,000	No	No	not applicable
Hubbard283	13933234	40	\$72,000	No	No	not applicable
Hubbard284	13933234	40	\$72,000	No	No	not applicable
Hubbard285	13933234	20	\$36,000	No	No	not applicable
Hubbard286	13933234	20	\$36,000	No	No	not applicable
Hubbard287	14033233	40	\$72,000	No	No	not applicable
Hubbard288	14033222	25	\$44,730	No	No	not applicable
Hubbard289	14033222	40	\$72,000	No	No	not applicable
Hubbard29	13932206	37	\$67,194	No	No	not applicable
Hubbard290	14033222	40	\$72,000	No	No	not applicable
Hubbard291	14033223	40	\$72,000	No	No	no
Hubbard292	14033223	40	\$72,000	No	No	not applicable
Hubbard293	14033223	40	\$72,000	No	No	not applicable
Hubbard294	14033223	40	\$72,000	No	No	not applicable
Hubbard295	14033223	40	\$72,000	No	No	not applicable
Hubbard296	14033223	40	\$72,000	No	No	not applicable
Hubbard297	14033226	40	\$72,000	No	No	not applicable
Hubbard298	14033226	40	\$72,000	No	No	not applicable
Hubbard299	14033226	40	\$72,000	No	No	not applicable
Hubbard3	13932210	40	\$72,000	No	No	not applicable
Hubbard30	13932206	40	\$72,000	No	No	not applicable
Hubbard300	14033226	40	\$72,000	No	No	not applicable
Hubbard301	14033227	40	\$72,000	No	No	not applicable
Hubbard302	14033227	30	\$54,810	No	No	not applicable
Hubbard303	14033227	40	\$72,000	No	No	not applicable
Hubbard304	14033228	40	\$72,000	No	No	not applicable
Hubbard305	14033228	40	\$72,000	No	No	not applicable
Hubbard306	14033228	40	\$72,000	No	No	not applicable
Hubbard307	14033228	30	\$54,810	No	No	not applicable
Hubbard308	14033233	40	\$72,000	No	No	not applicable
Hubbard309	14033233	40	\$72,000	No	No	not applicable
Hubbard31	13932206	40	\$72,000	No	No	not applicable
Hubbard310	13934206	39	\$70,812	No	No	not applicable
Hubbard311	13934206	40	\$72,000	No	No	not applicable
Hubbard312	13934206	40	\$72,000	No	No	not applicable
Hubbard313	13934206	40	\$72,000	No	No	not applicable
Hubbard314	13934212	29	\$52,200	No	No	no
Hubbard315	13934212	40	\$72,000	No	No	no
Hubbard316	13934212	40	\$72,000	No	No	no
Hubbard317	13934212	40	\$72,000	No	No	not applicable
Hubbard318	13935219	40	\$72,000	No	No	not applicable
Hubbard319	13935219	40	\$72,000	No	No	not applicable
Hubbard32	13932206	40	\$72,000	No	No	not applicable

Hubbard320	13935225	36	\$64,296	No	No	not applicable
Hubbard321	13935225	8	\$14,328	No	No	not applicable
Hubbard322	13935225	16	\$29,286	No	No	not applicable
Hubbard323	13935225	35	\$63,486	No	No	not applicable
Hubbard324	13935225	34	\$60,768	No	No	not applicable
Hubbard325	13935225	33	\$58,716	No	No	not applicable
Hubbard326	13935225	40	\$72,000	No	No	not applicable
Hubbard327	13935228	40	\$72,000	No	No	not applicable
Hubbard328	13935228	40	\$72,000	No	No	not applicable
Hubbard329	13935229	40	\$72,000	No	No	not applicable
Hubbard33	13932206	40	\$72,000	No	No	not applicable
Hubbard330	13935229	40	\$72,000	No	No	not applicable
Hubbard331	13935229	34	\$60,552	No	No	not applicable
Hubbard332	13935231	40	\$72,000	No	No	no
Hubbard333	13935231	40	\$72,000	No	No	not applicable
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Hubbard342	13935232	26	\$46,368	No	No	not applicable
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Hubbard344	13935233	40	\$72,000	No	No	not applicable
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Hubbard346	13935234	37	\$67,284	No	No	not applicable
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Hubbard349	13935234	40	\$72,000	No	No	not applicable
Hubbard35	13932207	42	\$75,744	No	No	not applicable
Hubbard350	13935234	9	\$16,200	No	No	not applicable
Hubbard351	13935234	21	\$37,800	No	No	not applicable
Hubbard352	13935234	40	\$72,000	No	No	not applicable
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Hubbard354	13935219	40	\$72,000	No	No	not applicable
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Hubbard36	13932207	42	\$76,194	No	No	not applicable
Hubbard37	13932210	35	\$62,118	No	No	not applicable
Hubbard38	13932210	33	\$59,400	No	No	not applicable
Hubbard39	13932210	40	\$72,000	No	No	not applicable
Hubbard4	13932210	20	\$36,000	No	No	not applicable
Hubbard40	13932210	40	\$72,000	No	No	not applicable
Hubbard41	13932211	40	\$72,000	No	No	not applicable
Hubbard42	13932211	40	\$72,000	No	No	not applicable
Hubbard43	13932211	40	\$72,000	No	No	not applicable
Hubbard44	13932211	40	\$72,000	No	No	not applicable
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Hubbard46	13932211	40	\$72,000	No	No	not applicable
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Hubbard48	13932211	40	\$72,000	No	No	not applicable
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Hubbard52	13932212	40	\$72,000	No	No	not applicable
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Hubbard54	13932212	40	\$72,000	No	No	not applicable

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Hubbard56	13932213	40	\$72,000	No	No	not applicable
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Hubbard59	13932213	40	\$72,000	No	No	not applicable
Hubbard6	13932201	36	\$65,196	No	No	not applicable
Hubbard60	13932214	40	\$72,000	No	No	not applicable
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Hubbard64	13932214	36	\$65,250	No	No	not applicable
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Hubbard66	13932215	32	\$58,140	No	No	not applicable
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Hubbard85	13932220	40	\$72,000	No	No	not applicable
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Hubbard95	13932229	40	\$72,000	No	No	not applicable
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Hubbard99	13932229	40	\$72,000	No	No	not applicable

Section 2a - Protect Parcel with Bldgs

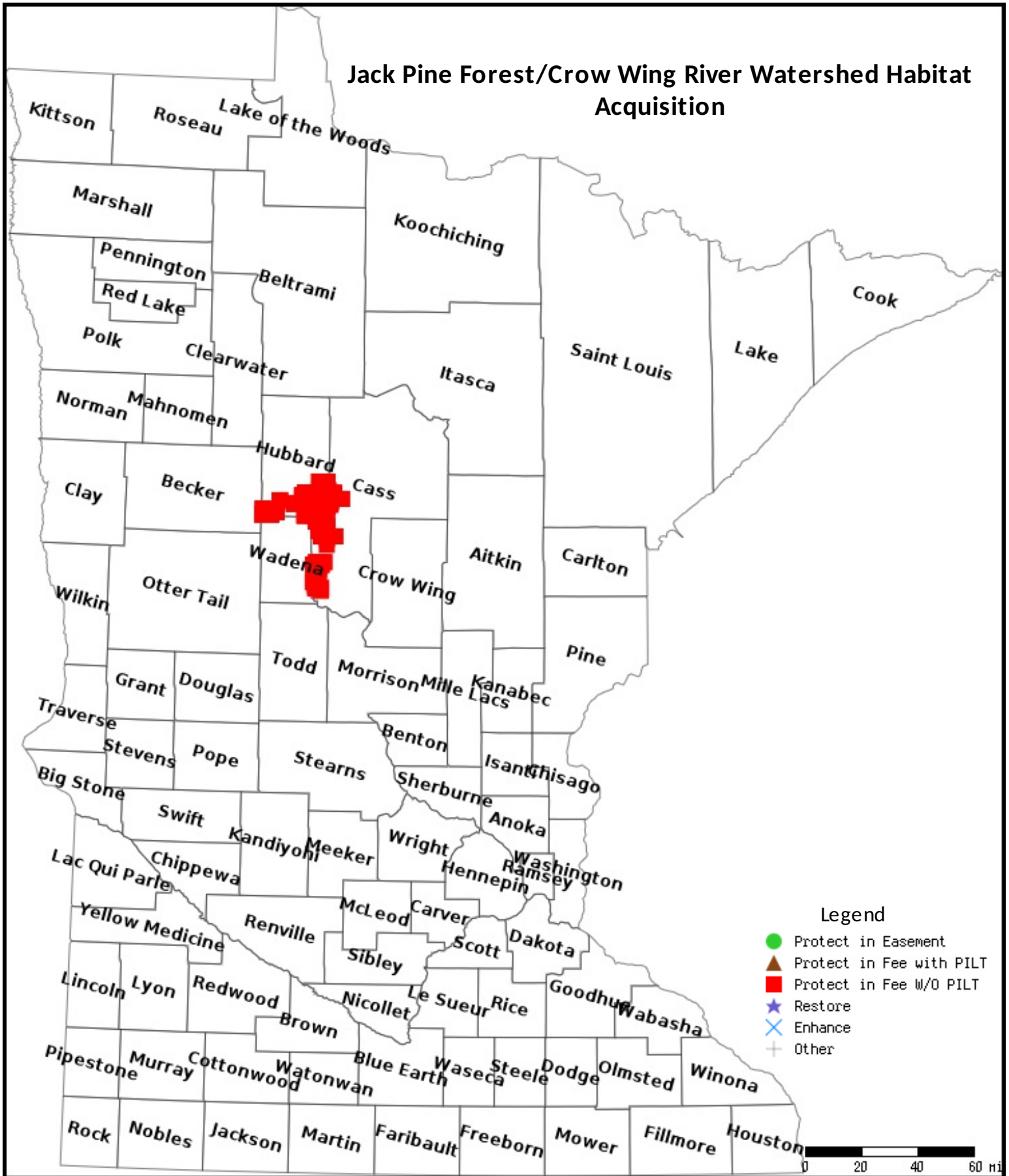
No parcels with an activity type protect and has buildings.

Section 3 - Other Parcel Activity

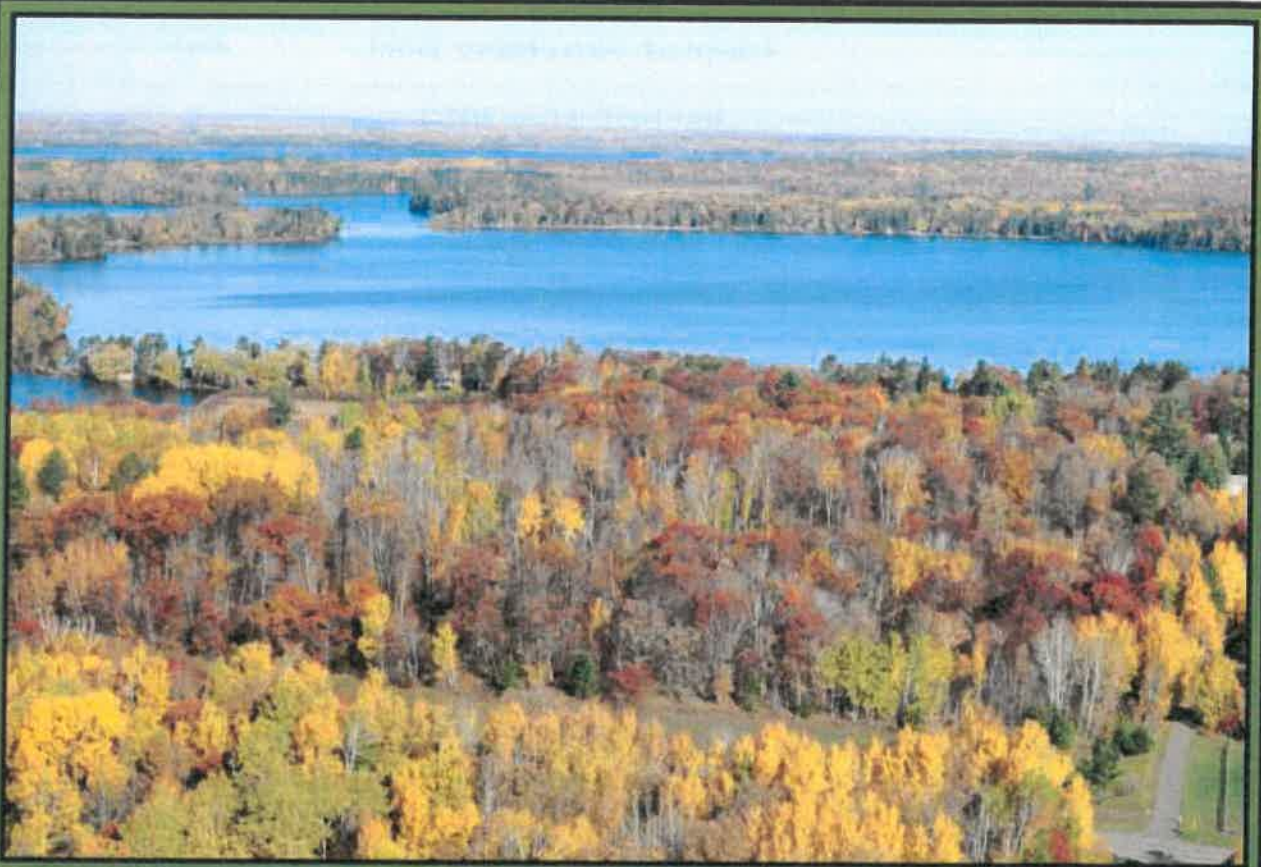
No parcels with an other activity type.

Parcel Map

Jack Pine Forest/Crow Wing River Watershed Habitat Acquisition



Data Generated From Parcel List



Cass County Forest Resources Management Plan



May 2010



Cass County Long Range Resource Management Plan

Adopted: November 2003

Revised: May 2010

Cass County Board

Jim Demgen, District 1

Robert Kangas, District 2

Jeff Peterson, District 3

James Dowson, District 4

Dick Downham, District 5

Natural Resources Advisory Committee

Cass County Soil & Water Conservation District Board

Thomas Kuschel, District 1

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Kimberly Wells, Forest Resource Manager

Prepared by Consultant Team of:

Pro-West & Associates, Inc. / Applied Insights^{north}

Chapter 8.0 Recreation Facilities and Trails

8.1. Assessment

Cass County is meeting its obligation to provide recreational opportunities on its land base by managing the land in a manner that encourages and supports dispersed recreation (e.g., hunting, hiking, wildlife watching, etc.). Outside of trails, the County does not intend to create recreational facilities such as picnic grounds, parks, campgrounds, or boat accesses.

Travel on recreational trails will be a major activity across County lands. While the County does not intend to construct the trails, it will make its land base available to agencies such as the MnDNR and organized user groups to locate and develop appropriate trails on its land. The County will work with user groups, the DNR, and affected property owners on planning for future trails. In general, the County will encourage user groups to prepare comprehensive trail system plans so that the County, MnDNR and others can evaluate an entire system of trails, even if development occurs a segment at a time. The County will take action to insure that established recreational corridors are protected and to assist in the acquisition of land for future corridors.

Probably the most contentious issue regarding recreation concerns motorized trails, especially non-winter travel by ATVs, motocross bikes, and off highway vehicles. Currently, 89% of the County's land is open for motorized uses on trails; only 11% is designated solely for non-motorized recreational use. Current policy prohibits driving on- or off-road vehicles on County administered land within 50 feet of a lake, river, or type 1-8 wetland except while on a designated forest road or trail.

The State has three classifications of its forest for motorized recreation. "Closed" areas prohibit all forms of motorized uses. On lands designated "managed" motor vehicles may operate on forest roads and trails unless they are posted and designated closed. On lands designated "limited" motor vehicles may operate only on those roads and trails that are specifically designated open to such uses. Recent state legislation prohibited off trail travel on state forests except for specified purposes during selected times of the year including building hunting stands, trapping, retrieving downed big game, and conducting forest management activities.

Activities in the Spider Lake area, on State and County land, raised many issues over motorized recreational uses on forest lands. As a result, sections of this area have been designated "limited" while others retain the "managed" status. Cass County will continue to adjust its designations in this area to insure consistency.

Trails

Trails are a major recreational feature on Cass County's tax forfeited lands. The Land Department directly develops and maintains some systems while others are developed and maintained by private or public entities with County cooperation.

- 433.6 miles of Grant-in-Aid snowmobile trails managed by Cass County.
- 40.7 kilometers of cross country ski trails: Cut Lake trail (16.5 km); Hiram trail (8.0 km); Washburn Lake (22 km) and, Deep Portage (18.2 km – managed jointly

by Deep Portage and Land Department). These trails also serve as mountain bike trails in the summer.

- The County has no restrictions on horseback riding on any County Forest Roads or trails. Currently there are several miles of posted horse trails that are maintained by the Cass County Land Department in cooperation with local users. These trails are not designated and do not require a permit to use.
- 20 miles of designated hunter walking trails. All cross country ski trails are also hunter walking trails (non-motorized). Further, except for designated use by hunters with disabilities, most of Deep Portage is set aside for non-motorized trail use. Approximately 28,000 acres lie within these various non-motorized areas; this is 11% of the entire tax forfeited land base or 15% of the forested lands.

For current maps of trails, readers should visit Cass County's website (<http://www.co.cass.mn.us>) and click on the maps button. This will direct users to an interactive mapping program through which trails can be identified. Interested people can also contact the Land Department for printed maps.

There is a need to develop an officially designated system of trails for all terrain vehicles (ATVs). This will involve designation and upgrading of existing trails and may include construction of new ones. As state legislation and rules for State lands unfold, it likely will be necessary for the County to increase the number of trails which are designated and signed for specific types of recreational uses.

The development of new trails or expansion / redevelopment of existing ones will be done with several guidelines in mind. First, the County will require the active participation of affected user groups and, preferably, the sponsorship of a local club. Second, wherever possible, trails will be designed to be year-round and support multi-use. Third, trails are to be designed to avoid or at least minimize use of road rights-of-way and to eliminate back-tracking. Fourth, permanent protection of trail corridors and critical segments will be sought.

Recreational Trail Policy

1. The County will use its land base to help establish, promote, manage and retain recreational trail corridors in Cass County.
2. All officially recognized forest roads and trails on tax forfeited lands that are designated by the County Board will be signed as appropriate.
3. All designated forest roads and recreational trails on County administered lands are considered open to motorized recreational vehicles unless specifically posted closed. "Posted closed" includes such measures as signage, gating, and placement of boulders, earth, and other natural materials to indicate that passage by motorized vehicles is clearly prohibited. The big game exemption applies to these trails and licensed hunters are encouraged to use them while pursuing big game. Cass County will work with the State and Federal land managers to secure consistent use designations to avoid conflict and confusion.
4. Off trail motorized travel across County administered tax forfeited lands is prohibited. All motorized recreational vehicles must stay on existing roads and trails in accordance with use designations. In response to unauthorized off trail or cross country travel, the Land Department, with County Board consent, will post areas closed as a tool to limit resource damage.
5. Motorized recreation scramble areas (e.g., hill climbs, mud runs, etc.) are deemed inappropriate for public forest lands and are not to be allowed.

6. The design and development of recreational trails will involve user groups, the general public, public and private landowners potentially affected by a trail, and local units of government where the trails are located.
7. While priority is given to forest management activities, good faith efforts will be made to adjust schedules and procedures so as to avoid or minimize conflicts with recreational uses, including use of trails.
8. Requests for Designation of County Administered Land will require local unit of government consent. The Cass County Land Department has created a template of land use designations for discussion that was drafted considering historic use, neighboring public land designations, soils, existing resources, wetlands, and forest covertype. This template will be used for reference. Designations will be brought to the County Board for consideration after the following criteria has been reached.
 - Local units of government need to provide written consent with the proposed routes or areas of limitations. This includes permission from all road authorities where either road right of way or road surface is required. This will avoid County approval on a route that a township or city does not condone. If we require local units of government to approve the plan first, the County will not be pushing a specific route or area on a local unit of government.
 - Routes and areas of limitations must follow the existing draft management plan that was produced during the public review process for the East Central Trail designations. This map was created by professionals with the intent of protecting the resource and to avoid landowner conflicts. If the proposed route or area of limitations is outside those recommendations, specific mitigation measures must be identified to ensure the resource is being protected and that all affected private property owners have been notified and agree to the use of their property for this purpose.
 - Designated trails across County Administered Land need to be under the Grant In Aid system (GIA) or maintained by the State of Minnesota. This will not only provide a means of liability protection for the County but will also provide the club or requesting party an additional source of funding for maintenance and signs. All recommendations from the County should require GIA status within a specific time period as a condition of the conditional use permit or recreational trail permit.
 - Funding for maintenance and construction of the trail or area of limitation signage must be identified by the party requesting the designation or trail permit. The Cass County Land Department currently spends money on designated GIA trails only if there is a benefit to resource management. All other funds are currently coming from GIA funds or local clubs.
 - An enforcement plan must be identified by the party requesting the permit. This should include existing programs like trail ambassadors and required ordinances from local units of government to use road surfaces or right of ways for trail connections when needed. The trail proposals and areas of limitations should be as self sufficient as possible given the current limitations on laws and regulations from both the State of Minnesota and existing local ordinances. If a new ordinance is required to help police the proposed trail or area of limitation, it should come from a local unit of government below the County with an enforcement plan. This again will not require the County to force trail routes, areas of limitations, and regulations on a local unit of government.

Chapter 9.0 Forest Roads

9.1. Assessment

Cass County administered land contains over 1,000 miles of forest roads whose purpose is to provide access to the land for management purposes. While portions of some of the roads also serve as recreational trails, they are distinguished from recreational trails by their use as forest roads for the purpose of resource management.

Forest roads on County administered land can be found at various stages of development and maintenance depending upon location and successional stage of the surrounding resource. This reflects the intended use of the road and level of its construction and maintenance.

In addition, forest roads on County administered lands are considered open to use to motorized recreational vehicles unless specifically posted closed. When persistent damage to the resource occurs from unauthorized use, access is controlled through gates and/or rocks and berms with County Board consent. The reasons for controlling access along a road include:

- Prevent dumping of garbage and demolition waste;
- Allow for successful seeding of trails;
- Protect hunter walking trails;
- Protect road bed of newly constructed trails;
- Restrict motorized traffic on cross country ski/mountain bike trails; or
- Prevent erosion on access roads traversing highly erodible soils.

Some control gates are permanent such as those on hunter walking trails and on ski / mountain bike trails. Gates installed for the protection of new seeding or newly created road beds are moveable and are reused. Gates on trails that need seasonal protection such as for the prevention of erosion are open when weather or road conditions permit.

The current system of forest roads (including public roads that abut tax forfeited land) provide direct access to 90,500 acres of tax forfeited land (land that lies within 600 feet of the road); this is 36% of the total amount of tax forfeited land.

As noted earlier, the county has identified non-motorized trail areas (i.e., County tax forfeited lands accessed by forest roads that are gated, barricaded or otherwise identified as not being accessible to motorized recreation vehicles). Approximately 28,000 acres lie within these non-motorized areas; this is 11% of the entire tax forfeited land base.

Wherever possible, the County cooperates with other landowners on the development and maintenance of forest access roads. The intent is to minimize the number of roads while insuring adequate access.

The County does not plan to develop new major maintained-class forest roads. Additional non-maintained-class roads may be needed for future management activities.

Forest Roads and Trails Policy

1. All forest roads will be designed and built in accordance with "best management practices" regarding location, terrain, water quality and quantity, visual qualities, and the like.

2. Road development and improvement will be coordinated between the Land Department and affected property owners to maximize safety, minimize conflicts, reduce costs, and encourage appropriate cooperative development and use.
3. All forest roads are considered open to motorized travel unless posted closed with County Board consent.
4. Roads will restrict access with County Board consent for any one or more of the following reasons: Prevent dumping of garbage and demolition waste; Allow for successful seeding of trails; Hunter walking trails; Protect road bed of newly constructed trails; Restrict motorized traffic on cross country ski/mountain bike trails; Prevent erosion on access roads traversing highly saturated or erodible soils.
5. All forest roads and trails will be inventoried, mapped using geographic positioning systems (GPS) technology or air photos during forest inventory updates.
6. Forest roads and trails will be signed regarding their designated use.
7. Relative to potential impacts on wetlands due to forest road construction, the County's policy is:
 - Additional fill placed in wetlands for any reason, including road construction, requires mitigation and replacement.
 - Roads must be built and maintained for forest uses only.
 - Trail Designation cancels all exemptions from wetland requirements.
 - Easements providing access to private property cancels all exemptions from wetland requirements.
 - Grant-in-Aid Trail grants on corridors cancels all exemptions from wetland requirements.
 - Existing wetland crossings are to be maintained "as is" with no expansion of the current footprint within a wetland.

9.2 Procedures

The Land Department has adopted procedures addressing roads and trails. These procedures are amended from time to time. Readers are directed to the Land Department website for the latest versions (www.co.cass.mn.us/land/land_home.html).

Chapter 10.0 Habitat

10.1. Assessment

Cass County has a long history of considering habitat values in its overall management programs. One member of the Land Department staff is designated as a wildlife specialist.

In 1998 the MnDNR published the County Biological Survey for Cass County.¹¹ This report presents an extensive examination of rare and critical biotic communities and individual species (plants, animals, insects). The detailed information concerning locations of particular specimens is not part of the public record but is accessible by County staff as it undertakes site-specific work.

Rare, Endangered or Species of Special Concern

The County Biological Survey revealed a number of plants and animals that are rare, endangered, or of special concern for which management practices should be adopted. Table 9 lists rare plants tracked by the state's Natural Heritage Information System and sensitive species being tracked by the Chippewa National Forest. Table 10 lists rare animals documented from or potentially occurring in Cass County.

Habitat	Name	Status
Open Water	Myriophyllum tenellum (Water milfoil)	NS
	Nymphaea tetragona (a type of water lily)	SC
	Potamogeton vaseyi (Vasey's pondweed)	
Littoral Aquatic	Cladium mariscoides (Twig rush)	SC
	Eleocharis olivacea (Olivaceous spikerush)	T
	Eleocharis pauciflora	SC
	Eleocharis quinqueflora var. fernaldii (Few-flowered spikerush)	
	Najas gracillima (Slender naiad)	SC
	Sparganium glomeratum (Clustered bur-reed)	SC
	Utricularia gibba (Humped bladderwort)	NS
	Utricularia purpurea (Purple-flowered bladderwort)	SC

¹¹ Minnesota Biological Survey. 1998. Cass County biological survey 1992-1995. Biological Report No. 59. Minnesota Department of Natural Resources. 325 pp.

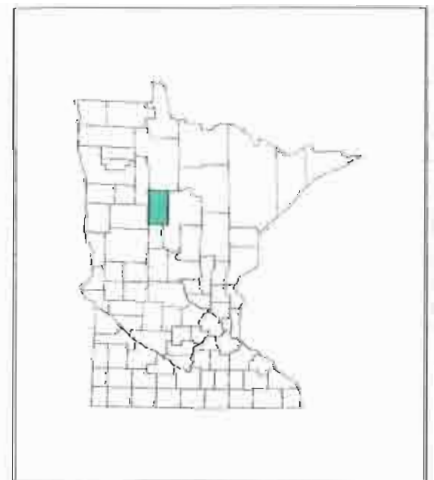


**Hubbard
County
Tax-Forfeited
Lands**

*** * ***

**Forest
Resources
Management
Plan**

October 2002



Prepared by the Consultant Team of
Klaers, Powers & Associates *** Pro-West & Associates, Inc. *** Northern Software & Consulting

Hubbard County Forest Resources Management Plan

Adopted: October 2, 2002

Hubbard County Board

Swede Nelson, District 1
Richard Devine, District 2
Floyd Frank, District 3
Lyle Robinson, District 4
Cynthia Dudley, District 5

Land Department Staff

Bob Hoffman, Land Commissioner
Mark Juberian, Natural Resources Manager
Allen Lysdahl, NR Manager
Aaron Funk, NR Manager
Greg Hensel, Parks/Rec Supervisor
Donna Esser, Administrative Assistant

Forest Advisory Committee

Larry Batty
Dick Devine
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Prepared for Hubbard County by the Consultant Team of:

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Cover Image

The cover is a mosaic of medium format color infrared aerial photography of Hubbard County, taken in May 2001 by Pro-West & Associates, Inc. The separate images have been georeferenced into a single mosaic to provide an unified view of the county's forests. Color infrared photography is used to delineate tree species as they leaf out in the spring.

Table 12 summarizes the total extent of trails in the county. Additional discussion can be found under the motorized/non-motorized discussion.

Administrator	Ski	Non-Motorized	Snowmobile / Motorized	Total
County (Grant In Aid)	8	10	172	190
DNR Forestry		33	104	137
State Trails		22	21	43
Total	8	65	297	370

Deer Herd Density – Forestry and Hunting

Deer hunting is a major recreational activity in Hubbard County. According to MnDNR surveys, the level of hunter pressure has steadily increased over the past five years. This is reflected in the number of deer killed which has increased from a decade low of roughly 3,000 (Park Rapids DNR field office area) in 1997 to not quite 11,000 by 2001.

According to MnDNR monitoring programs, the deer herd in Hubbard County has the second highest per square mile average density in the entire state. The density is routinely 50% higher than the desired level. While this presents good hunting prospects for hunters each fall, the situation poses serious problems for foresters trying to regenerate certain tree species. In particular, jack and red pine (and northern white cedar although there is little of this type in the county) are vulnerable to deer browsing. Many planted areas are completely browsed within a year or two of planting. Combined with the low level of fire used for regeneration and release, this situation makes it difficult to regenerate these forest types.

The DNR's response has been to issue double the number of antlerless deer hunting permits and to encourage hunters to shoot does. However, this strategy has only modest success. In years when the DNR increases the number of antlerless deer permits the actual number of such deer killed only rises slightly (ex: in 2001, 7,000 permits were issued but only 2,800 antlerless deer were killed – a number only slightly higher than the previous year when 4,500 permits were issued).

Motorized and Non-motorized Recreation

A growing point of controversy on forested lands throughout the state revolves around recreational trails – the so-called "motorized vs non-motorized" issue. The heart of the matter is the increasing level of demands being placed on a limited resource to satisfy the needs of people with significantly different perspectives on recreation. In addition, there is the concern by land managers, private and public, that certain uses damage the resource.

Nearly all the attention focuses on motorized uses with the major concern being the creation of unauthorized trails, cross country use that adversely impacts the resource, or excessive use of trails resulting in rutted, eroded trails. Motorized recreation users state that they are entitled to have access to public lands and that State gasoline tax funds set aside for motorized trails must be used to help provide this access.

Within or immediately adjacent to Hubbard County, most forms of motorized recreation are better served than elsewhere in the state. There is over 200 miles of designated ATV trails, a 120 mile off-highway motorcycle system, and various recognized forest trails open to their use.

In addition, the MnDNR has designated its forest lands as "managed" meaning that motor vehicles may operate on forest roads and trails unless they are posted and designated closed. Recent legislation prohibited off trail travel on state forests except for specified purposes during selected times of the year including building hunting stands, trapping, retrieving downed big game, and conducting forest management activities.

The MnDNR has undertaken a OHV system plan for the northwest region including Hubbard County. Among other things this plan proposes a designated ATV trail system centered on the Two Inlets State Forest and the area east to the Paul Bunyan State Forest. In addition, the Round River ATV trail in the Paul Bunyan Forest may have 52 miles of designated ATV trails.

The County feels that the State's actions adequately address the needs of motorized recreation without the County having to develop any new trails. While the County itself will not create new motorized trails, it may allow easements across appropriate land for trails as may be necessary and consistent with overall management objectives. The County will work with user groups, the DNR, and affected property owners on planning for future trails. In general, the County will encourage user groups to prepare comprehensive trail system plans so that the County, MnDNR, and others can evaluate an entire system of trails, even if development will occur a segment at a time.

The County will maintain its policy of closing any newly created forest roads or trails to motorized use. It will continue its policies that identify appropriate existing forest roads and trails for motorized use. The County will also seek to keep its policies consistent with State law and policy for state forested lands within the county. Because of the intermingled ownerships, this approach will minimize confusion and potential conflict.

The County will continue to have specifically designated non-motorized recreation areas. In general these include designated hunter/walking trails. In addition, the County is exploring the designation of blocks of land as non-motorized recreation areas. It must be noted that designation of areas for non-motorized recreation does not preclude mechanized forest management activities.

Visual Resource Management

The scenic quality of the forest is widely recognized as a value important to recreation, tourism, and local quality of life. Striving to achieve and maintain desired scenic values has become an integral part of forest management.

Obviously, the public perception of "visual quality" varies with the person and often are contradictory. One person's version of a "natural" looking forest may include dead and down trees while another's only includes stately pines with no underbrush. It is the land manager's challenge to find the appropriate balance.

In 1994 Hubbard County along with fifteen other northern counties and the MnDNR completed a visual quality classification of its lands which was then implemented through an adopted set of Visual Quality Best Management Practices. Three factors were used in the classification process: the perceived degree of sensitivity of users of a travel route or recreation area concerning landscape aesthetics; the volume and type of use a