



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 128 ENTRY YEAR: 2007

Compartment Acreage: 1573 County: Mackinac

Revision Date: September 21, 2005

Stand Examiner: Cory Luoto

Legal Description: T44N-R7W Sections 22, 23, & 26, Hendricks Township.

RMU (if applicable):

Management Goals: This compartment is located approximately four miles northwest of Rexton. The land cover types within this compartment are quite diverse. The cover types include a large bog and swamp complex, hardwood, aspen, pine, cedar, swamp conifer, and a few grassy openings. The majority of the hardwood in the stand was treated during the previous entry year and is again ready to be harvested. There is also a mature swamp conifer stand adjacent to the hardwood that should be harvested to assure adequate regeneration and continued age class diversity. Aspen budding trees will be left along the edge of the cut as well as the cedar trees within the cut. Two pine stands will be harvested. One will be final harvested and replanted. The other will be a final harvest with reserve trees for aesthetics and site diversity, this stand will be regenerated naturally.

Soil and Topography: The uplands are generally Wallace sands and Paquin sand. Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch Complexes. Level lowlands to rolling uplands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is primarily surrounded by state land. Section 22 has two private forties, section 23 has 6 private forties and section 26 is entirely state owned. Fiborn Quarry lies to the northwest also there are several camps on the private land.

Unique, Natural Features (include only non-site specific and non-sensitive information): Fiborn Quarry, caves and other karst features lie to the northwest. There is a potential for rare threatened or endangered plant and animal species within the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Fiborn Quarry, the old town of Fiborn, and the Canadian Nation Railroad are just north of the compartment.

Special Management Designations or Considerations: The management of one of the red pine stands was changed from final harvest to final harvest with reserves. This will eliminate the need to burn and plant this small stand which lies between a power line and H-40.

Watershed and Fisheries Considerations: Hendrie River headwaters. Fisheries values are poor to moderate. This far south, in the very headwaters, much of the stream is impounded by beaver dams. Some trout are available to hardy anglers wishing to fish away from “the rest of the pack.” Standard BMP practices will be sufficient to protect these waters from logging damage.

Wildlife Habitat Considerations: This compartment lies within the St. Ignace sub-subsection. Pre-settlement forest cover likely consisted of a white pine and hemlock mix with red pine and jack pine on the drier sites. In the low areas, tamarack, spruce and cedar appeared to be dominant. Species such as red maple, hemlock, birch, aspen and red pine were also present. Wind throw, fire, and beaver ponds were the likely forms of natural disturbance within this compartment.

The growing season last approximately 130 days. Extreme winter low temperature approaches -46° F. Annual snowfall averages 100 inches.

This is a very diverse compartment composed of mixed forest, lowland brush, spruce, lowland conifer, with some hardwood and aspen scattered throughout. While the species composition within the lowlands appears to be similar to that found in pre-settlement times, upland forest cover has changed somewhat with a scattered aspen component.

The red pine clear cut will provide a temporary open habitat for open land dependant species such as bobolink and grasshopper sparrow. The small clearcut in stand 27 will improve available forage for wintering deer. Northern hardwood will be treated using a selection harvest that will maintain closed canopy as well as size and age structure diversity. This strategy will minimize canopy disturbance while still allowing timber harvest to occur.

Other wildlife species expected to benefit from this treatment include but are not limited to: Ruffed grouse, sharp-tailed grouse, goshawk, purple finch, grosbeaks, squirrels, snowshoe hare, white-tailed deer, bobcat, gray wolf, coyote, black bear, pine siskin and redpoll.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Manistique and Burnt Bluff Groups subcrop below the glacial drift. The Burnt Bluff is quarried for stone/limestone just to the north at Fiborn Quarry. Gravel pits are not located in the area, but there may be some potential on uplands. There is no current economic oil and gas production in the UP.

Vehicle Access: H-40, a paved county road, runs through the center of the compartment. The west edge is bordered by the Fiborn Quarry Road, which is a gravel county road. The southern upland islands of the compartment can be accessed from the Molly-Gibson Road which is a state owned gravel road within the compartment but is a Chippewa County Road one mile to the east. The drivable portion of the Molly-Gibson Road ends just west of the compartment boundary. There are also several two track roads that access the stands that have been managed in the past.

Survey Needs: None needed.

Recreational Facilities and Opportunities: The Molly-Gibson Road is a groomed snowmobile trail. No other formal recreational facilities exist within this compartment. However, the area is used for hunting deer, bear and small game, trapping, snowmobiling, and ORVing.

Fire Protection: This is a low fire danger area.

Additional Compartment Information:

- **Cover Type details and proposed treatments are listed in the attached reports:**
 - ◆ **Cover Type by Age Class**

 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**



Stage 1 Acres Summary By Level 3 Cover Type By Age

Compartment: 45128

Date: 10/10/2005

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
Aspen Types	0	100.1	104.4	25.3	27.3	0	0	0	0	0	0	0	257.1
Herbaceous Openland	18.7	0	0	0	0	0	0	0	0	0	0	0	18.7
Low-Density Trees	41.5	0	0	0	0	0	0	0	0	0	0	0	41.5
Lowland Coniferous Forest	0	0	0	0	0	0	5.4	0	28.7	117.2	247.4	0	398.7
Lowland Deciduous Forest	0	42.8	0	0	0	59.9	17.7	15.5	12.9	11	0	0	159.8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	8.4	0	0	0	8.4
Lowland Shrub	460.4	0	0	0	0	0	0	0	0	0	0	0	460.4
Mixed Upland Deciduous	0	0	21.3	7.8	0	0	0	13.6	0	0	0	0	42.7
Northern Hardwood	0	0	0	0	0	0	0	16.4	71.4	33.7	0	0	121.5
Other Upland Conifers	0	0	0	0	1.5	0	10.5	0	0	0	0	0	12
Other Upland Deciduous	0	0	0	0	0	2.4	0	14.8	0	0	0	0	17.2
Planted Pines	0	0	0	0	0	0	0	26.9	0	0	0	0	26.9
Road/Parking Lot	8.4	0	0	0	0	0	0	0	0	0	0	0	8.4
Grand Total	529	142.9	125.7	33.1	28.8	62.3	33.6	87.2	121.4	161.9	247.4	0	1573.3

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 1
45128025-Cut	13.7	Maple, Beech, Cherry Association	9	61	0	Single Tree Selection	Regeneration	Maple, Beech, Cherry Association	Within four years after harvest a regen check will need to be done.	
<u>Rev</u> Thin stand to 80-90 ba										
<u>Spec:</u>										
<u>Rev</u>										
<u>Cmnt:</u>										
45128027-Cut	8.4	Mixed Lowland Forest	9	72	0	Clearcut with Reserves	Regeneration	Mixed Lowland Forest	Within four years after harvest a regen survey will need to be done.	
<u>Rev</u> Clearcut all species except white cedar.										
<u>Spec:</u>										
<u>Rev</u>										
<u>Cmnt:</u>										
45128028-Cut	41.4	Sugar Maple Association	9	73	0	Single Tree Selection	Regeneration	Sugar Maple Association	With four years after harvest a regen survey will need to be done.	
<u>Rev</u> Thin stand to 80-90 ba. Thin heavier around black cherry and yellow birch. Avoid operating in regen gaps from previous harvest.										
<u>Spec:</u>										
<u>Rev</u>										
<u>Cmnt:</u>										
45128033-Cut	5.7	Sugar Maple Association	9	73	0	Single Tree Selection	Regeneration	Sugar Maple Association	Within four years of harvest a regen will need to be done.	
<u>Rev</u> Thin to 80-90 ba										
<u>Spec:</u>										
<u>Rev</u>										
<u>Cmnt:</u>										
45128036-Cut	18.9	Sugar Maple Association	9	78	0	Single Tree Selection	Regeneration	Sugar Maple Association	A regen check will need to be done within four years after harvest is completed	
<u>Rev</u> Thin to 80-90 basal area.										
<u>Spec:</u>										
<u>Rev</u>										
<u>Cmnt:</u>										
45128044-Cut	20.4	Planted Red Pine	9	65	0	Clearcut	Regeneration	Planted Red Pine	After harvest, burn, trench and plant. One year after harvest a regen check will need to be done. Depending on the results of the survey an herbicide application may be needed to reduce competition.	
<u>Rev</u> Clearcut stand.										
<u>Spec:</u>										
<u>Rev</u>										
<u>Cmnt:</u>										
45128045-Other	22.2	Aspen, Birch	1	2	0	Other	Cover Type Conversion		Depending on the results of the regen check, an herbicide application may be needed to reduce competition. The herbicide application may be a ground or aerial application.	
<u>Rev</u> A regeneration check will need to be done in 2006.										
<u>Spec:</u>										
<u>Rev</u> This stand was clearcut in previously. It was burned in the summer of 2004. The stand came back with considerable amounts of aspen and birch. It was										
<u>Cmnt:</u> then trenched in the fall of 2004. The stand was planted in the spring of 2005 with red pine. This happened between stage 1 and stage 2 data collection.										

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 2
45128048-Cut	4.7	Planted Red Pine	9	65	0	Clearcut with Reserves	Regeneration	Planted Red Pine	One year after harvest a regen check need to be done.	

Rev Clearcut Stand, but leave a representative of all species as reserves for aesthetics and feasibility of regeneration
Spec:

Rev
Cmnt:

**Total Treatment
Acreage Proposed: 135.4**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Follow Up Activities After Treatment	Pg. 1
----------------	-------	----------------	--------------	---------	---------	------------------	-------------------	----------------------	--------------------------------------	-------

Limiting Factor
and Comment:

Rev
Spec:

Rev
Cmnt:

**Total Treatment
Acreage Proposed: 0**

Field Map

Compartment 128
 T44N, R7W, Sec. 22, 23, 26
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2007
 Acres: 1,573 GIS Calculated
 Stand Examiner: Cory Luoto
 Map Revised: 10/06/2005
 Map Phase: Pre-Review

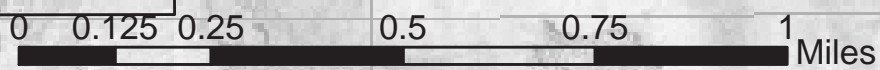
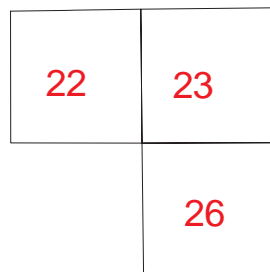


Legend

- County Road/Major Street
- Street/Local Road
- Lakes and Rivers
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

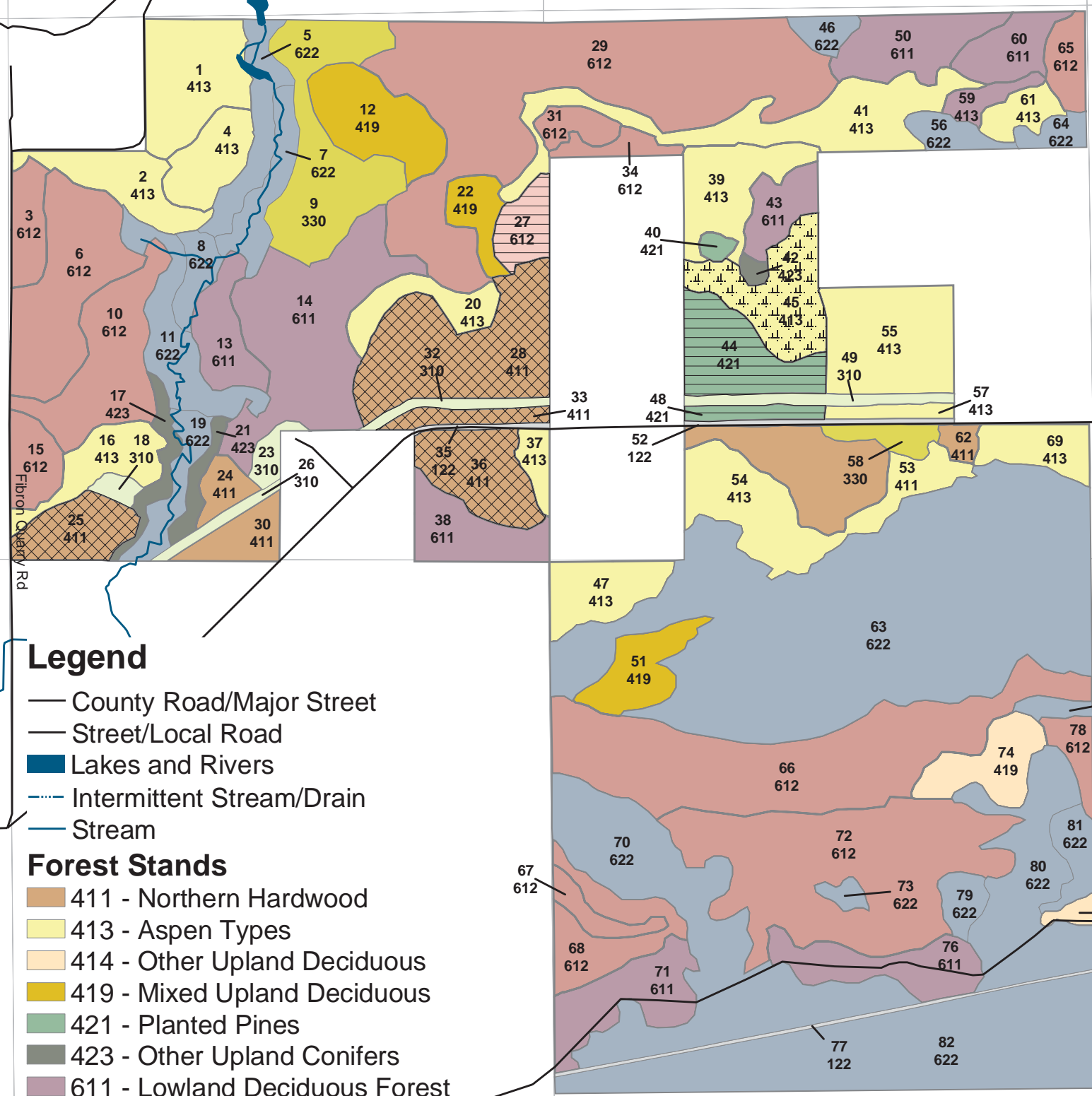
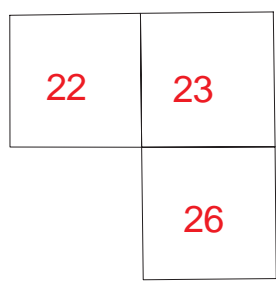
Treatments

- Clearcut
- ▨ Clearcut with Reserves
- ▩ Single Tree Selection
- ▤ Other



Cover Type & Treatment

Compartment 128
 T44N, R7W, Sec. 22, 23, 26
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2007
 Acres: 1,573 GIS Calculated
 Stand Examiner: Cory Luoto
 Map Revised: 10/06/2005
 Map Phase: Pre-Review



Legend

- County Road/Major Street
 - Street/Local Road
 - Lakes and Rivers
 - Intermittent Stream/Drain
 - Stream
- Forest Stands**
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 423 - Other Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub
- Treatments**
- Clearcut
 - Clearcut with Reserves
 - ▨ Single Tree Selection
 - ▤ Other

