



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 188 ENTRY YEAR: 2007

Compartment Acreage: 1839 County: Mackinac

Revision Date: September 21, 2005

Stand Examiner: Steve Crigier

Legal Description: T43N-R12W Sections 25 - 28 & 34 & 35, Newton Township.

RMU (if applicable):

Management Goals: Compartment 188 is located to the east of Milakokia Lake south of highway US-2. Creating age class diversity amongst the aspen stands in the compartment for wildlife and sustainable forestry is one of the main objectives for the compartment. Also, maintaining the public use areas like the State campground and the snowmobile trail are a high priority.

Soil and Topography: Many of the aspen types and some of the hardwood types are found on nearly level ground moraines, or on depressions in outwash plains and are either Menominee loamy sand or Spot Finch Complex. Lowland aspen types that are quite numerous in the compartment are on depressions in nearly level lake and outwash plains and are usually a Markey-Spot-Finch complex. The nicer hardwoods site are on undulating ground moraines and outwash plain and are a Heinz sandy loam. The large bog in the compartment is a Dawson and Loxley peat soils and is on a closed depression of a lake plain. The cedar types in the compartment are typically found on Markey and Carbondale mucks that sit on depressions in ground moraines and lake plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment borders small private landowners to the north and to the west. Escanaba Timber has ownership to the northeast of the compartment and the rest of the compartment is adjacent to other state ownership to the south and east. There are numerous cabins along Milakokia Lake and abut to the compartment boundaries to the west. There is also a land exchange in process in, 60 acres east of Warner road maybe traded for 60 acres within compartment 125 boundary.

Unique, Natural Features (include only non-site specific and non-sensitive information): The compartment has the potential for numerous rare and endangered fauna and flora.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None found.

Special Management Designations or Considerations: Best Management Practices will be used in all timber sale activities. There is a snowmobile trail that runs through the northeastern portion of the compartment. These trails will need to have specifications in the timber sale contracts to protect the trail and provide for safety precautions around the trail. The Milakokia Lake State Forest Campground is also being actively managed for the eradication of Garlic Mustard.

Watershed and Fisheries Considerations: Toms' Creek is classified as warm-water and the concern is limiting sedimentation that can enter this system.

Wildlife Habitat Considerations: This compartment lies within the St. Ignace sub-subsection. The growing season last approximately 130 days. Extreme winter low temperature approaches -46° F. Annual snowfall averages 100 inches.

The original surveyor's notes show that this area contained a diversity of tree species in the pre-settlement forest. The assemblage of tree species includes hemlock, white birch, yellow birch, sugar maple, black ash, aspen, elm, red maple, and cedar. Lowlands also contained spruce and tamarack. Wind throw, fire and beaver ponds were the likely forms of natural disturbance.

This compartment lies within a deer yarding complex along Milakokia Lake. Hardwood is a minor element, and will be managed by selection to maintain mature, closed canopy characteristics while allowing sufficient canopy gaps to encourage secondary canopy regeneration. This treatment will benefit wintering deer by increasing forage, while at the same time, improve habitat conditions for several wood warblers. Likewise, retention of the mature conifer component will provide un-fragmented forest critical to migratory songbirds.

Much of the aspen requires treatment to provide age and structural diversity within this compartment. This will be accomplished through the use of regeneration harvests in the mature stands. This will result in a moderately sized contiguous area of final harvest, which is designed to minimize the potentially negative impacts of over browsing by deer to nearby hardwood regeneration as well as the aspen. Cedar, white pine, and hemlock that occur within the aspen stands prescribed for harvest will generally be left as seed trees and potential snags to create diverse, uneven aged stands while still regenerating early successional habitats. The cedar stands that occur in the poorly drained sites will not be prescribed for treatment to also allow these stands to function naturally.

Gray wolves are known to occur in this compartment. Wildlife species with the potential to benefit from the prescriptions include grosbeaks, woodpeckers, goldfinch, goshawk, white-tailed deer, snowshoe hare, and black bear.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck. The glacial drift thickness varies between 10 and 100 feet. The Silurian Manistique and Burnt Bluff Groups subcrop below the glacial drift. The Burnt Bluff is quarried for stone/limestone two miles to the southwest. There are gravel pits to the north and potential is possible on the uplands. There is no current economic oil and gas production in the UP.

Vehicle Access: The Pike Lake Grade (gravel county road) and Warner Road (paved county road) provide hard surface access to the western portion of the compartment with a small network of poor dirt roads branching off. The power line also provides access to some areas of the compartment; permission is needed from private landowner if hauling to the west. The northeast portion of the compartment is accessed through many different small landowners off US-2; permission is required for use of the roads.

Survey Needs: The southern compartment line in section 28 needs corners and lines. The north compartment line in section 26 needs corners and lines.

Recreational Facilities and Opportunities: The compartment has the Milakokia Lake State Forest Campground on the east side of the lake. The campground is a maintained rustic campground with a boat launch and was updated to ADA standards along with other renovation. The eastern portion of the

compartment has a snowmobile trail that is maintained and groomed. The compartment as a whole provides boating, fishing, hunting, trapping and hiking opportunities.

Fire Protection: The central part of the compartment has limited equipment access due to the wet soil conditions. Thick organic soil will make fire fighting difficult and labor intensive.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **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**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

MACKINAC COUNTY

COMPARTMENT: 188

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen		51	213		55				96										415
Black Spruce												48							48
Cedar											111		54	53					218
Grass	13																	1	14
LowInd Brush	274																		274
LowInd Poplr			228		24				25	11	59								347
Marsh	27																		27
Mx Swmp Cnfr									4										4
Non Stocked	10																		10
Paper Birch			29						26										55
Spruce Fir			5	6					1	23									35
Swamp Hrdwds																		24	24
Treed Bog	250																		250
Upland Hdwds																		117	117
Water	1																		1
Total	575	51	475	6	79				152	34	170	48	54	53				142	1839

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

MACKINAC COUNTY

COMPARTMENT: 188

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	415																										415
S Black Spruce		48																									48
C Cedar				218																							218
G Grass					14																						14
L LowInd Brush									274																		274
P LowInd Poplr										347																	347
N Marsh											27																27
Q Mx Swmp Cnfr												4															4
X Non Stocked													10														10
B Paper Birch		5													50												55
F Spruce Fir																			35								35
E Swamp Hrdwds																					24						24
D Treed Bog																						250					250
M Upland Hdwds																								117			117
Z Water																									1		1
Total	420	48		218	14				274	347	27	4	10		50				35	24		250		117	1		1839

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

MACKINAC COUNTY

COMPARTMENT: **188**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4015 Cds	Hardwood	2174 Cds
Hardwood	226 Mbf	Hardwood	16 Mbf
Softwood	3741 Cds	Softwood	608 Cds
Sum TotVol	8208 Cds	Sum CutVol	2814 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	181
1839			

SAULT STE. MARIE MGT. UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 188 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status	
6	M6	8		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : Thinned in 90, Beech has BBD. Thin out high risk beech and poor quality maple poles to 70-80sqft/ac. Cut with st # 13 & 14											
13	F5	1	84	50	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1			
comnts Fmd : Clear cut with stand 14 and 6, clean up edges of st#12.											
14	B6	5	76	50	aspen (upland)	mature	final harvest	1			
comnts Fmd : Good Pat ground. Cut with stands 6 & 13. Stand will regenerate to mixed spp.											
39	A6	9	72	60	aspen (upland)	mature	final harvest	1			
comnts Fmd : Uncut unit of Pike Lk. Pockets. Mackinaw Mix. Cut w/st#44. Pocket of R.Maple logs on North end (CC). Leave W. Pine. Stand will regenerate to mixed spp., mostly aspen.											
48	A6	36	72	60	aspen (upland)	mature	final harvest	1			
comnts Fmd : Stand will regenerate to mixed spp., mostly aspen.											
64	M9	9		55	northern hardwood	unevenaged	selection	1			
comnts Fmd : Try to get access through private to the north. If problems harvest w/stands 90,88,86, and 104 and access to from the south and out the east side of powerline. Thin out beech and poor quality maple poles to 70-70sqft/ac.											
86	A6	16	72	67	aspen (upland)	mature	final harvest	1			
comnts Fmd : Access from the PVT prop to the north or out the powerline to the east. Leave some budding trees along stand 87. Stand will regenerate to mixed spp.											
88	F6	10	81	60	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1			
comnts Fmd : Stocking is low on west side and there is some cedar mixed in. Access from north private or from powerline to the east. Stand will regenerate to mixed spp.											
90	A6	20	72	67	aspen (upland)	mature	final harvest	1			
comnts Fmd : Aspen 6-7 sticks tall!! Access from the north or out the powerline to the east. Leave some budding trees along stands 63 and 87. Stand will regenerate to mixed spp.											
93	M6	15		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : Thin out Beech and poor quality maple poles to 80 sqft/ac. Contact Northrop about access to the north. No problems in the past.											
104	A6	5	72	67	aspen (upland)	mature	final harvest	1			
comnts Fmd : Access from private road to the north or though the powerline to the east. Will regenerate to mixed spp.											
106	F5	11	79	55	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1			
comnts Fmd : Leave cedar see if it will seed in. Access from the east end of the powerline or from the north through private.											
408	G0	1		60	grass	nonstocked		0	opening maintenance		
comnts Fmd : Sand Pit to the south, cut w/ prison crew 3/16/95. Treat with dozer when harvesting st #6											
412	G0	1		60	grass	nonstocked		0	opening maintenance		
comnts Fmd : Some aspen sprouts can be cleaned up when harvesting st #13.											
447	G0	6		60	grass	nonstocked		0	opening maintenance		
comnts Fmd : Maintain when st 48 is harvested.											
Total Acres.....		153									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
4	F5	1	84	50	spruce-fir (uplands- including upland black spruce)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage										
comnts Fmd : Hold until st#3 is ready to cut, too small to cut alone.										
10	P6	3	84	50	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage										
comnts Fmd : Some budworm damage, CC when st #2 is ready, too small to cut alone.										
32	B5	6	72	60	paper birch	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
Inadequate volume due to small acreage										
comnts Fmd : Access is a problem and too little volume to cut alone. Good for age class diversity.										
40	S5	2	104	28	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
Blocked by other physical obstacle										
49	S5	2	104	28	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
Inadequate volume due to small acreage										
54	A6	10	72	60	aspen (upland)	mature	final harvest	1		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access										
comnts Fmd : Cut with stands 39 & 48. Contact Dale Deibeletal about access. Stand will regenerate to mixed spp. Mostly aspen.										
58	P6	1	91	22	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
Blocked by other physical obstacle										
comnts Fmd : Inaccessible										
60	P6	1	91	22	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
Blocked by other physical obstacle										
comnts Fmd : Inaccessible										
83	B5	7	75	35	paper birch	mature	final harvest	1		
TREATMENT LIMITING FACTORS: Too wet										
comnts Fmd : Cut with aspen stands to the north, Haul to the north if access from the north or out the the powerline to the east. Stand will regenerate to mixed spp.										
84	S5	3	104	28	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
Blocked by other physical obstacle										

SAULT STE. MARIE MGT. UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 188 Entry Year: 2007

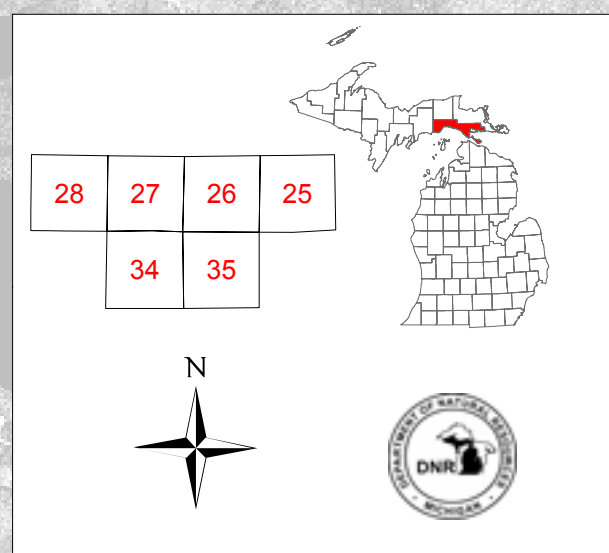
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
451	G0	1		60	grass	nonstocked		0	opening maintenance	

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

Total Acres..... 37

Field Map

Compartment 188
 T43N, R12W, Sec. 25-28, 34, 35
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2007
 Acres: 1,839 GIS Calculated
 Stand Examiner: Steve Crigier
 Map Revised: 9/26/2005
 Map Phase: Pre-review



Legend

- RLS Corners
- Miris Corners
- County Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trails
- Powerline
- Water Features
- Snowmobile Trails
- State Highway
- Stand Boundary
- 024 - Opening Maintenance/Bulldozer
- 026 - Opening Maintenance
- 100 - Final Harvest
- 800 - Selection

Name County Paved Roads
Name County Gravel Roads
Name Water Features

