



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 43 ENTRY YEAR: 2007

Compartment Acreage: 2870 County: Chippewa

Revision Date: September 14, 2005

Stand Examiner: Jeff Wise

Legal Description: T45N R1W Sec 4, 8, 9, 16, 17, 18, 20, 21

Management Goals: To regenerate mature lowland conifer stands in a sustainable age class distribution regime while enhancing wildlife values. To prescribe treatments conducive to protecting water quality in these lowland areas. To manage red pine stands for optimal growth and yield to a mature stand at Final Harvest. To provide for reasonable public access for multiple use recreation such as hunting, trail riding, camping, and hiking while protecting the natural resources.

Soil and Topography: Markey Kinross-Croswell, and Markey Dawson: deep, level to undulating, poorly and moderately well drained, mucky and sandy soils on outwash plains. Topography is generally flat to rolling with lowland tag alder and conifer swamps to aspen and hardwood knobs.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly a contiguous block of State land bordering I-75 and other State land. Two private parcels within; one containing a hunting camp. Property ownership is being disputed. Land use is ORV and snowmobile trail riding along with hunting, and timber and wildlife management. Surrounding State land is conducive to landscape level management.

Unique, Natural Features: None known.

Archeological, Historical, and Cultural Features: Stand 401 was an old logging camp.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment contains portions of the Little Munuscong River, within the St. Marys River watershed. The Munuscong River is an important tributary for walleye spawning. The Little Munuscong River is a designated trout stream just downstream of this compartment, starting in section 23. Prescribed management activities are appropriate for the protection of the Little Munuscong River.

Wildlife Habitat Considerations: This compartment is located within Subsection VIII.1.2 of Landscape Ecosystems of Michigan (Albert 1994). Pre-settlement vegetation on these somewhat poorly drained soils consisted primarily of a hardwood- conifer forest dominated by balsam fir, balsam poplar, hemlock, aspen, white cedar, white pine, black and white spruce. This compartment is now a diverse mixture of spruce, pine, lowland conifer, lowland brush, and aspen.

Management will focus on maintenance of early successional upland habitat arranged adjacent to maturing lowland. This will be accomplished through the use of regeneration harvests in the mature aspen. Any 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 extensive lowland conifer that dominates the interior portion of this compartment will be allowed to function naturally which will provide winter thermal cover for white-tailed deer, and important cover for songbirds such as redpolls, siskins and, warblers.

Wildlife species expected to benefit from this treatment include but are not limited to: Ruffed grouse, goshawk, chickadee, snowshoe hare, porcupine, white-tailed deer, bobcat, gray wolf, coyote, black bear, moose, towhee, and purple finch. Moose make extensive use of this wetland dominated compartment.

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 Ordovician Trenton and Black River Groups sub crop below the glacial drift. These formations are quarried for stone/dolomite. Pits are located to the south, but potential appears to be limited. A well was drilled in 1940 to 587 feet in the Precambrian Jacobsville Sandstone. There is no current economic oil and gas production in the UP.

Vehicle Access: Gaines Highway on the south side. Old Mac Trail on the East side. One two track within the compartment to access the southern stands.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: An ORV Trail exists as well as the snowmobile trail on the Old Mac Trail. No facilities. Hunting is a main activity here also.

Fire Protection: Good access to the north, south and east part of the compartment. Water sources are close by.

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

CHIPPEWA COUNTY

COMPARTMENT: 43

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		60	65		39					54									218
Black Spruce		9	31						258			76							374
Bog or Marsh	50																		50
Cedar							67		53	107	39	48							314
Grass	15																		15
LowInd Brush	167											400							567
LowInd Poplr									21										21
Marsh	351																		351
Mx Swmp Cnfr					160				123			71							354
Red Pine						71													71
Spruce Fir						33			161										194
Swamp Hrdwds		25							51										76
Tamarack									154		75								229
Upland Hdwds									6									5	11
Water	8																		8
White Pine																		17	17
Total	591	94	96		199	104	67		827	161	114	595						22	2870

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

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 43

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	218																										218
S Black Spruce		374																									374
V Bog or Marsh			50																								50
C Cedar				314																							314
G Grass					15																						15
L LowInd Brush									567																		567
P LowInd Poplr										21																	21
N Marsh											351																351
Q Mx Swmp Cnfr												354															354
R Red Pine																71											71
F Spruce Fir																			194								194
E Swamp Hrdwds																				76							76
T Tamarack																						229					229
M Upland Hdwds																								11			11
Z Water																									8		8
W White Pine																										17	17
Total	218	374	50	314	15				567	21	351	354				71			194	76	229			11	8	17	2870

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: **43**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4599 Cds	Hardwood	2311 Cds
Hardwood	248 Mbf	Hardwood	219 Mbf
Softwood	12552 Cds	Softwood	5177 Cds
Softwood	595 Mbf	Softwood	100 Mbf
Sum TotVol	18837 Cds	Sum CutVol	8126 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	459
2870			

SAULT STE. MARIE MGT. UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 43

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
17	M6	5		60	northern hardwood	unevenaged	selection	2		
comnts Fmd : Treat with adjacent stand in Compartment 42, snowmobile trail on Old Mac Trail.										
32	W6	17		44	white pine	unevenaged	shelterwood-seed	1		
comnts Fmd : Remove all species other than White Pine and mark a few pulp for quality management, stand has some huge wolfy White Pine seed trees, 98 is Jack Pine, Red Pine and White Spruce, leave Red Pine. Borders Gaines Hwy. Regeneration of present species will enhance diversity while retaining the White Pine type.										
33	F6	149	75	35	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1		
comnts Fmd : Poor quality W. Pine in understory, some large wolfy seed trees, 98-2 is Balsam & W. spruce, 98-1 is W. Pine & W. Spruce, boggy in some areas with ridges in others. Leave W. Pine, and R. Pine and Cedar if any is found. Borders Gaines Hwy. Regeneration of present species is expected.										
48	S5	76	105	45	black spruce-swamp	mature	final harvest	3		
comnts Fmd : Lots of blowdown, treat now to start regeneration, Aspen has died out due to age. Regeneration of some Aspen is acceptable along with Balck Spruce.										
53	R6	39	44	55	red pine	immature	thinning	1		
comnts Fmd : Thinned in 1988, mark to 120 BA, ground cover is pine needles, northern fringe has a little Black Spruce										
58	R6	32	44	55	red pine	immature	thinning	1		prescribed for fdf treatment
comnts Fmd : Thinned in 1998, Sale 45-008-97-01, mark to 120 BA , FDF, ground cover is needles.										
Total Acres.....		318								

SAULT STE. MARIE MGT. UNIT

**Proposed Treatments
With Limiting Factors**

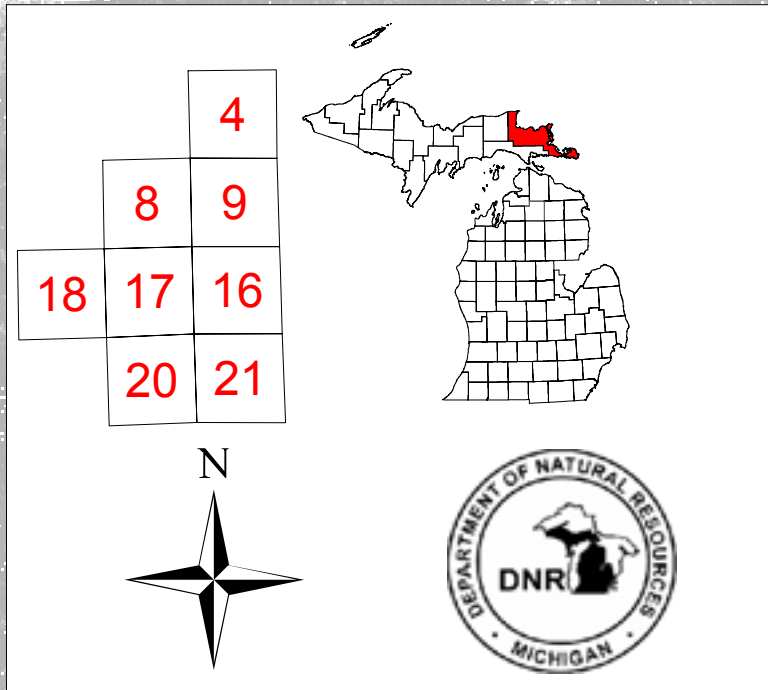
Compartment: 43

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
1	T5	49	95	40	tamarack	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet Land survey needed Water quality/bmps										
comnts Fmd : Wait for a dry year and cold winter, beavers have taken over this compartment										
4	A6	28	80	57	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : No way to get to this one, too wet , wait for a dry year and a cold winter.										
5	A6	20	80	57	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet Road needed (resources not presently available)										
comnts Fmd : Wait for a dry year and a cold winter to get this one.										
7	F6	12	77	50	spruce-fir (uplands- including upland black spruce)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : Island in the marsh, inaccessible, 99 is Red Maple and White Birch.										
8	T5	26	95	40	tamarack	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet Water quality/bmps										
comnts Fmd : Scatterd Black Spruce and Cedar, beavers on the loose in this compartment, waiit for a dry year and a cold winter.										
9	A6	6	80	57	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : No way to get to this one, too wet , wait for a dry year and a cold winter.										
Total Acres.....		141								

Field Map

Compartment 43
 T45N, R1W, Sec. 4, 8, 9, 16-18, 20, 21
 County: Chippewa
 Unit: Sault Saint Marie
 YOE: 2007
 Acres: 2,870 GIS Calculated
 Stand Examiner: Jeff Wise
 Map Revised: 9/26/2005
 Map Phase: Pre-review



Legend

- ◆ RLS Corners
- ⊙ Unserved Corners
- Miris Corners
- Paved Roads
- - - Poor Dirt Roads
- - - Closed Roads
- - - Trails
- 🏠 Cabins
- × Gates
- 🚙 Snowmobile Trails
- 🛣 Interstate Highway
- ▭ Stand Boundary
- ▨ 100 - Final Harvest
- ▩ 300 - Shelterwood-seed
- ▧ 400 - Thinning
- ▦ 800 - Selection
- Name** Paved Roads
- Name** Poor Dirt Roads
- Name** Water Features

