



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 17 ENTRY YEAR: 2007

Compartment Acreage: 2857 County: Chippewa

Revision Date: September 14, 2005

Stand Examiner: Jeff Wise

Legal Description: T42N R7E, Sec 28, 29, 30, 31, 32

Management Goals: To develop an optimal age class distribution of aspen stands for sustainable forestry and wildlife values. To rotate hardwood treatments for optimum regeneration and stocking of all age classes. Maintain current openings as needed for diversity and enhancement of wildlife benefits. To provide reasonable public access for multiple use benefits such as hunting, trail riding, camping, and hiking, while protecting the natural resources.

Soil and Topography: Potagannissing-Rock outcrop-Summerville: Exposed limestone bedrock and shallow, level to steep, poorly drained and well drained, loamy soils on ground moraines and glacial lake benches in the north part of the compartment. Shelter-Posen-Summerville: similar to above but a deeper soil in the south part of the compartment. Markey-Dawson: deep, level, poorly drained mucky and peaty soils on outwash plains on the east side to Fourth Lake. Topography is rolling hills to flat rock to steep cliffs. Cedar swamps and hardwood knobs are mixed among the aspen hills.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Contiguous block of State land with no developments. Primarily used for hunting, trail riding, and timber and wildlife management. There is one private parcel adjoining the compartment on the west side with a camp. State land surrounding the compartment maintains landscape level management.

Unique, Natural Features: Stand 28 has exposed bedrock similar to Maxton Plains.

Archeological, Historical, and Cultural Features: Remnants of old railroad grade discovered in stand 406. Old homestead cabins discovered in Stand 405. Three foundations discovered in Stand 410.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment, located on Drummond Island, contains portions of Dry Lake and Fourth Lake. Dry Lake is approximately 165 acres in size with a maximum depth of 8 feet, and supports primarily yellow perch. Fourth Lake is part of the Potagannissing Flooding, has an average depth of 2 feet, and is primarily a northern pike spawning area. Prescribed management activities are appropriate for the protection of these water bodies.

Wildlife Habitat Considerations: This compartment is located within Subsection VIII.1.1 of Landscape Ecosystems of Michigan (Albert 1994). Pre-settlement vegetation consisted primarily of an upland spruce-fir-cedar forest type. Dense cedar stands occurred in the poorly drained locations scattered across this compartment. Due to past disturbance, this compartment is now primarily composed of aspen intermixed with cedar and maple with variable densities of a spruce/fir under story.

Most of the aspen is over 60 years old and 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 fairly large contiguous area of final harvest, which is designed to minimize the negative impacts of over browsing by deer to adjacent hardwood regenerations as well as the aspen. Furthermore, larger treatment areas will also minimize fragmentation which has potential negative effects on wood warblers due to nest parasitism by cowbirds. 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.

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.

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 thin to discontinuous glacial deposits over bedrock. There is insufficient data to determine the glacial drift thickness. The Silurian Manistique and Burnt Bluff Groups sub crop below the glacial drift. These formations are quarried for stone/dolomite. A gravel pit is located two miles to the west and potential is unknown. There is no current economic oil and gas production in the UP.

Vehicle Access: Logging roads, jeep trails, and ORV Trails are throughout the compartment. Most can be accessed with two wheel drive vehicles; others are strictly passable with four wheel drive.

Survey Needs: None

Recreational Facilities and Opportunities: ORV and jeep trails are throughout the compartment. No facilities. Hunting is one of the main sporting opportunities along with camping, hiking, and sight seeing.

Fire Protection: There is good to fair vehicle access to most of the compartment. Accessible water sources are scarce.

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: 17

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																All Aged	Total
	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		
Aspen		74	245						646	94								11	1070
Cedar									428			3						59	490
Grass	70																		70
LowInd Brush	11																		11
LowInd Poplr		27																	27
Marsh	179																		179
Mx Swmp Cnfr						243													243
Spruce Fir									15										15
Upland Hdwds																		631	631
Water	28																		28
White Pine											89							4	93
Total	288	101	245			243			1089	94	89	3						705	2857

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

LAKE SUPERIOR STATE FOREST

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CHIPPEWA COUNTY

COMPARTMENT: 17

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	1070																										1070
C Cedar				490																							490
G Grass					70																						70
L Lowlnd Brush									11																		11
P Lowlnd Poplr										27																	27
N Marsh											179																179
Q Mx Swmp Cnfr												243															243
F Spruce Fir																			15								15
M Upland Hdwds																								631			631
Z Water																									28		28
W White Pine																										93	93
Total	1070			490	70				11	27	179	243							15					631	28	93	2857

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 17

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	20334 Cds	Hardwood	6378 Cds
Hardwood	2566 Mbf	Hardwood	246 Mbf
Softwood	8928 Cds	Softwood	990 Cds
Softwood	1077 Mbf	Softwood	121 Mbf
Sum TotVol	36548 Cds	Sum CutVol	8102 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	599
2857			

SAULT STE. MARIE MGT. UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 17

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
6	M9	14		56	northern hardwood	unevenaged	selection	2		
comnts Fmd : Same as Stand 8 & 10, manage with same, 35 is Oak, Hemlock, W. Birch, W. Pine, and Aspen. Reserve Oak, Pine, Hemlock, and any Yellow Birch, ORV trail.										
8	M9	31		56	northern hardwood	unevenaged	selection	2		
comnts Fmd : Same as Stand 6 & 10, manage with same, 35 is Oak, Hemlock, W. Birch, W. Pine, and Aspen. Reserve Oak, Pine, Hemlock, and any Yellow Birch, ORV trail.										
9	A6	156	75	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : Scattered Oak and W Pine, Reserve Oak and W. Pine. ORV trail, 35 is Spruce, Cedar, Maple, and Aspen, 98 is Spruce and Balsam. Regeneration of present species along with Aspen is acceptable for stocking. Where Cedar groves exist, 25-30 trees per acre will be left at a spacing of approximately 40 feet to allow for operations where Cedar groves impede Aspen removal, also reducing damage to residual Cedar.										
10	M9	8		56	northern hardwood	unevenaged	selection	2		
comnts Fmd : Same as Stand 6 & 8, manage with, 35 is Oak, Hemlock, W. Birch, W. Pine, and Aspen Reserve Oak, Pine, Hemlock, and any Yellow Birch, ORV trail.										
12	A6	65	75	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : Scattered Oak and W Pine, Reserve Oak and W. Pine. ORV trail, 35 is Spruce, Cedar, Maple, and Aspen, 98 is Spruce and Balsam,. Regeneration of present species is acceptable for stocking. Where Cedar groves exist, 25-30 trees per acre will be left with a spacing of approximately 40 feet to allow for operations where Cedar groves impedes Aspen removal, also reducing damage to residual Cedar. Illegal ORV trail on old road.										
20	M6	101		56	northern hardwood	unevenaged	selection	2		
comnts Fmd : Could use a good selection cut to clean up the junk, reserve Oak, ORV trail, 99-1 is Ash, Beech, and Aspen, 99-2 is Oak, W. Birch, and Ironwood.										
24	M9	21		60	northern hardwood	unevenaged	selection	2		
comnts Fmd : Fringe has a lot of W. Birch and Large tooth Aspen, mark or do a strip clearcut, mature Hemlock grove in center with illegal deer blind.										
30	A6	71	75	65	aspen (upland)	mature	final harvest	3		
comnts Fmd : New stand, uncut part of Stand 31, up on a ridge, North-east edge is a steep cliff, should be a good view when area is cut, scattered Oak, reserve Oak, and W. Pine, 35 is W. Spruce and W. Birch. Regeneration of present species is acceptable for stocking. Where Cedar groves exist, 25-30 trees per acre will be left at a spacing of approximately 40 feet to allow for operations where Cedar groves impedes Aspen removal, also reducing damage to residual Cedar. Illegal hunting camp discovered and GPS'd at the very south tip of stand near Stand 406. Notified Law Div 5-05.										
46	A6	8	78	53	aspen (upland)	mature	final harvest	3		
comnts Fmd : Manage with C16 St 49, no operating in surrounding grass opening St 407 to protect historic RR grade. Regeneration of present species is acceptable for stocking. Reseve Cedar.										
48	M6	60		60	northern hardwood	unevenaged	selection	3		
comnts Fmd : Beautiful stand, scattered Hemlock, very lttle Beech so reserve Hemlock and Beech, open stand with regen pockets, old road but will be hard to access, road will have to be built probably from the north.										
49	A6	53	76	61	aspen (upland)	mature	final harvest	2		
comnts Fmd : Mature Aspen over Sugar Maple regen, treat to prevent conversion, this stand will have a component of maple after treatment. Regeneration of Aspen should not be a problem judging by the looks of adjacent Stand 31 and retaining some maple is acceptable for stocking. ORV trail.										
Total Acres.....		588								

SAULT STE. MARIE MGT. UNIT

Proposed Treatments
With Limiting Factors

Compartment: 17

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
53	A6	11		53	aspen (upland)	mature	final harvest	3		

TREATMENT LIMITING FACTORS: Road needed (resources not presently available)
Too wet

comnts Fmd : No Access to this stand except possibly from the East, no exam.

Total Acres..... 11

