



**ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 77 ENTRY YEAR: 2009
Compartment Acreage: 1,750 County: MENOMINEE

Last Revision: July 6, 2007

Stand Examiner: Dan Racine, Forester FMFM

Legal Description: T37N R24W Sections 16, 17, and 18

Management Goals: The compartment is comprised of 92 acres of Aspen, 179 acres of Upland Hardwoods, 163 acres of Red Pine, and 22 acres of other upland timber types. The lowland types consist of 338 acres of Black Spruce, 522 acres of Cedar, 193 acres of Hemlock, 102 acres of Mixed Swamp Conifer, and 120 acres of other lowland types. The compartment is located along the 7 Mile Marsh Road in the 7 Mile Marsh complex. There are five stands prescribed for harvest including; 36 acres of seed tree, 5 acres of final harvest, and 73 acres of selection harvest. Stand 91 and 112 will be treated with stand 134 of compartment 76. Stands 76, 79, 115, 119 will be treated with compartment 78.

Soil and Topography: The soils in this compartment are composed of Onaway fine sandy loam, Onaway Solona, Pemene-Nadeau, Nadeau fine sandy loam, Lupton-Cathro, and Loxley Dawson. The soils are mostly poorly drained with well drained to somewhat well drained soils in the upland ridges. The entire compartment is nearly level with areas of depressions and upland ridges. .

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is surrounded by state and private land with some private parcels interspersed throughout.

Unique, Natural Features: 7 Mile Marsh complex.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: There are several stands proposed as “Special Conservation Area” within the Seven Mile Marsh complex.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: *Ecological Context:* This compartment is within a sand lake plain located between Escanaba and Menominee. This plain historically supported forests of hemlock and white pine on ridges, and extensive swamps of cedar, black spruce, and tamarack in low areas. Broad upland areas sometimes supported northern hardwood forests of beech and sugar maple. Wind throw was the most common natural disturbance regime. During the past 100 years aspen has increased greatly while white pine, red pine, hemlock, and cedar have declined.

Recommendations: This compartment is mainly lowland conifer forest comprised of cedar swamp and spruce with some hardwood and red pine ridges scattered throughout. A relatively small acreage is scheduled for treatment due to the uncertainty of regenerating lowland conifer swamps when harvested. The cedar stands are of modest age and are providing good habitat for wildlife in their present condition (snow and wind intercept during winter). Main treatments proposed this decade include hardwood and red pine

selection harvests and 2 spruce final harvests. Hemlock experimental cuts have been conducted in the east portion of this compartment in the past, but additional harvesting has been put on hold until the results of these earlier cuts can be fully appraised. Stands comprising the “7 Mile Marsh” continue to be designated as a Special Conservation Area. These are mainly wet spruce stands in which natural processes will be allowed to operate. Overall, this compartment provides a variety of habitats for wildlife that are associated with conifer forest.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Group underlies the glacial drift. The Trenton is quarried for stone west of Escanaba. This area has not been leased previously for metallic exploration. A gravel pit is located in Section 10 and potential appears to be good on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: The access to the compartment is along the 7 Mile Marsh Road.

Survey Needs: Survey corners for stand private 80 acres on the east side and the 40 acres along the 7 Mile Marsh Road.

Recreational Facilities and Opportunities: The Forest Island ORV trail traverses this compartment. The main recreational opportunities are ORV riding, hunting, and sight seeing.

Fire Protection: There are no significant fire dangers within this compartment.

Additional Compartment Information:

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

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 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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: 77

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		46	28	4	14														92
Black Spruce					9			4	92	193	36		4						338
Cedar										100		188	80	154					522
Grass	9																		9
Hemlock											57	6	130						193
LowInd Brush	9																		9
LowInd Poplr			10	2	17	5													34
Mx Swmp Cnfr					14	15	11		62										102
Red Pine										42			121						163
Spruce Fir		5	3		2														10
Swamp Hrdwds										41		14							55
Tamarack										21									21
Treed Bog	1																		1
Upland Hdwds			2								2							175	179
Water	10																		10
White Pine										6			6						12
Total	29	51	43	6	56	20	11	4	154	403	95	208	341	154				175	1750

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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	92																										92	
S Black Spruce		338																										338
C Cedar				522																								522
G Grass					9																							9
H Hemlock						193																						193
L LowInd Brush									9																			9
P LowInd Poplr										34																		34
Q Mx Swmp Cnfr												102																102
R Red Pine																163												163
F Spruce Fir																			10									10
E Swamp Hrdwds																				55								55
T Tamarack																					21							21
D Treed Bog																							1					1
M Upland Hdwds																								179				179
Z Water																									10			10
W White Pine																										12		12
Total	92	338		522	9	193			9	34		102				163			10	55	21	1		179	10	12	1750	

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

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COMPARTMENT: **77**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6178 Cds	Hardwood	1457 Cds
Hardwood	311 Mbf	Hardwood	147 Mbf
Softwood	18340 Cds	Softwood	773 Cds
Softwood	1296 Mbf	Softwood	119 Mbf
Sum TotVol	27732 Cds	Sum CutVol	2762 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1750		240	

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 77

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
11	S6	36	92	43	black spruce-swamp	mature	seed tree	2		
<p>comnts Fmd : Final harvest this stand. Harvest this stand during frozen ground conditions. Do not expect full regeneration within this treatment period. No retention within this stand, possibility of leaving some white pine.</p> <p>Wld : Concur with FMFMD.</p>										
22	S5	4	112	50	black spruce-swamp	mature	final harvest	2		
<p>comnts Fmd : Final Harvest this stand. Harvest all species except may leave the White Pine. Harvest during the winter months. ORV trail runs near this stand. No retention for this stand.</p> <p>Wld : Concur with FMFMD.</p>										
32	S6	1	78	50	black spruce-swamp	immature	final harvest	2		
<p>comnts Fmd : Another plot of smaller diameter. Final Harvest this stand; Harvest Black Spruce and may leave the White Pine. Harvest during the winter months. No retention for this stand.</p> <p>Wld : Concur with FMFMD.</p>										
62	M6	30		62	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Select harvest this stand; Mark leaving a component of all species and leaving minor component species. The Beech is regenerating well in much of the stand. This stand is along the seven mile marsh road. In-stand retention: Leave some large diameter cavity trees and standing dead snags.</p> <p>Wld : Concur with FMFMD. As a reference, use the Within-Stand Retention Guidelines. This document includes targeted retention characteristics that may include; diversity (tree species, vertical, and horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
63	R9	43	112	65	red pine	mature	selection	2		
<p>comnts Fmd : Select Harvest this stand; Mark throughout to about 60-70BA. Leave the Cedar and Hemlock. This stand is along the Seven Mile Marsh Road. Leave some large diameter cavity trees and standing dead snags. Acceptable regeneration mix of R,W, and F.</p> <p>Wld : Concur with FMFMD.</p>										
115	M6	31		55	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Select harvest this stand. Harvest upland hardwoods leaving some minor component species. Harvest the aspen and spruce fir greater than 3 sticks. Leave hemlock and cedar. In-stand retention: Leave some large diameter cavity trees and dead standing snags. Leave some minor component species.</p>										
Total Acres.....		145								

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

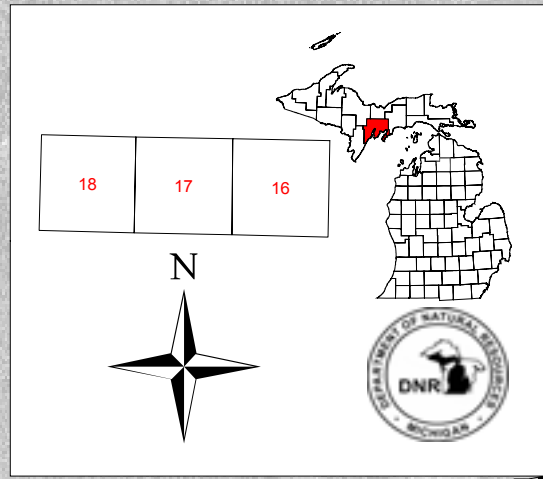
Compartment: 77

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
76	M6	1		60	northern hardwood	unevenaged	selection	3		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Look at treating this stand with stands from compartment 78 to the north in 2013. Select harvest to approximately 80 BA leaving some minor component species. (In-stand retention): Leave some large diameter cavity trees.										
79	M6	8		60	northern hardwood	unevenaged	selection	2		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Select harvest this stand. Treat this stand with stands in compartment 78 to the north. In-stand retention: Leave some large diameter cavity trees and standing snags along with any minor component species.										
91	M6	74		60	northern hardwood	unevenaged	selection	2		stand with fdf potential
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity Too wet										
comnts Fmd : Treat this stand with stand 134 of compartment 76. Both stands will be available at the same time.										
Wld : There is a hawk nest in a beech along the two-track in 2007.										
112	M6	10		60	northern hardwood	unevenaged	selection	2		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Harvest this stand with stand 91 and stand 134 of compartment 76. May have difficult access to treat this stand, may have to go through stand 111.										
119	M6	2	92	45	northern hardwood	mature	selection	2		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Select harvest this stand. Select harvest the upland hardwood species leaving some minor component species. Harvest the aspen and spruce/fir with 3 sticks or greater. Leave the cedar and hemlock unless they are necessary to operate. Go around any pockets that are heavier to hemlock and cedar. Acceptable regeneration of M or F. In-stand retention: Leave some large diameter cavity trees and standing dead snags. Follow the prescription.										
Total Acres.....		95								

Field Map

Compartment 77
 T37N, R24W, Sec. 16, 17, 18
 County: Delta
 Unit: Escanaba
 YOE: 2009
 Acres: 1,750 GIS Calculated
 Stand Examiner: Dan Racine
 Map Revised: 7/18/2007
 Map Phase: Pre-review



- ### Legend
- Miris Corners
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Forest Island ORV Trail
 - ORV Trails
 - Water Features
 - Forest Island ORV Trail
 - ORV Trails
 - Stand Boundaries
 - Biodiversity/Old Growth Area
 - 100 - Final Harvest
 - 200 - Seed Tree
 - 800 - Selection

