



ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #039 ENTRY YEARS: 2008

Compartment Acreage: 1531 County: Menominee

Last Revised: August 9, 2006

Stand Examiner: Dan Racine, Forester, FMFMD; Bill Rollo and Craig Albright, Wildlife Division

Legal Description: T36N, R25W, Sections 1, 2, and 3

Management Goals: The compartment is comprised of 591 acres of aspen and 409 acres of other upland timber types. Cedar and hemlock comprise 270 acres and 168 acres of other lowland timber types. Non-timber and opening types comprise 93 acres of this compartment. A significant portion of the roads and trails in this compartment are dedicated to the Forest Island ORV Trail. There are six stands proposed for a final harvest with the objective to regenerate aspen as well as maintain or improve the conifer component. One black spruce stand is proposed for final harvest with the objective to regenerate the black spruce. There are three selections, two seed tree, and one removal with the objective to improve the regeneration of conifer and other light seeded species. Two stands are proposed for treatment with limiting factors due to poor quality and limited access. A significant amount of white pine regeneration exists throughout this compartment and the objective will be to enhance this regeneration in the stands where possible.

Soil and Topography: The soils in this compartment include Pickford muck silt clay loam, Deford Wainola Rousseau complex, Rousseau fine sand, Deford mucky fine sand, and Tawas Deford complex. The compartment is nearly level with some ridges and depressions. A few of the stands proposed for treatments may require operating in the soil types during the snow free season to enhance conifer reproduction.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment includes County Road 551, 7 Mile Marsh Road, and North Fox Road. A significant portion of the roads are also dedicated to the Forest Island ORV Trail. There are a couple of parcels in this compartment that are private lands with the majority in state land. There may be some private property access needs for the treatments of some stands within the compartment.

Unique, Natural Features: The Big Cedar River traverses the western side of the compartment.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: There are some stands that are Special Conservation Areas due to riparian area management zones. The majority of these stands are around the Big Cedar River.

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: The Big Cedar River is a major water course that traverses the west edge of the compartment. Forest stands along the river have been designated a Special Conservation Area to promote mature conditions. This will be valuable for riparian wildlife. For example, bald eagle nest sites can be provided by managing for old, large trees while minimizing disturbance. Much of this compartment (39%) is aspen forest. Much of this acreage will

continue to be managed for aspen, providing benefits to early-successional wildlife species (such as chestnut-sided warbler, ruffed grouse, deer, hare, and bobcats). Other aspen stands are showing a natural inclination to convert over time (10 to 50 years) to white pine or balsam fir. Due to the large loss of upland conifer forest over the past century, these natural conversions will be encouraged through silvicultural prescriptions.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Formation underlies the glacial drift and is quarried for stone west of Escanaba. This area has not been leased for metallic exploration previously. A gravel pit is located in Sections 12 and there is potential on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: Access to this compartment is County Road 551, 7 Mile Marsh Road, and North Fox Road. The majority of the compartment has roads that are open to the public with access through state land. The stands west of the Big Cedar River and a portion throughout the compartment have access through private.

Survey Needs: There will be some private line work on some of the stands proposed for treatment.

Recreational Facilities and Opportunities: The Forest Island ORV Trail traverses throughout this compartment. The Big Cedar River provides canoe and fishing opportunities. There are hunting, bird watching, and other recreational activities available throughout this compartment.

Fire Protection: There are no significant fire danger problems within this compartment. The largest water source is the Big Cedar River with some intermittent streams and tributaries throughout the 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

MENOMINEE COUNTY

COMPARTMENT: 39

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		3	206	52	141	111	2	30	46										591
Black Spruce								7	8		4	4	6						29
Cedar											4	26	31	13	42	57			173
Grass	2																		2
Hemlock													11	86					97
LowInd Brush	64																		64
LowInd Poplr						5													5
Mx Swmp Cnfr							4		38	6				16					64
Non Stocked	6																		6
Red Pine							40	6											46
Spruce Fir			8															68	76
Swamp Hrdwds								40	7									23	70
Treed Bog	2																		2
Upland Hdwds								49	25									18	92
Water	19																		19
White Pine		39	19			3	2					18						114	195
Total	93	42	233	52	141	119	48	132	124	6	8	48	48	115	42	57		223	1531

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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 39

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	591																										591
S Black Spruce		29																									29
C Cedar				173																							173
G Grass					2																						2
H Hemlock						97																					97
L LowInd Brush									64																		64
P LowInd Poplr										5																	5
Q Mx Swmp Cnfr												64															64
X Non Stocked													6														6
R Red Pine																46											46
F Spruce Fir																				76							76
E Swamp Hrdwds																					70						70
D Treed Bog																							2				2
M Upland Hdwds																									92		92
Z Water																									19		19
W White Pine																										195	195
Total	591	29		173	2	97			64	5		64	6			46			76	70		2		92	19	195	1531

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **39**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10990 Cds	Hardwood	2936 Cds
Hardwood	70 Mbf	Softwood	1308 Cds
Softwood	11366 Cds	Softwood	154 Mbf
Softwood	684 Mbf	Sum CutVol	4552 Cds
Sum TotVol	23864 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	298
1531			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 39

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
8	A6	23	45	60	aspen (upland)	immature	final harvest	2	natural regeneration	
<p>comnts Fmd : Final harvest this stand leaving pine,hemlock,cedar,black ash, and submerchantable spruce/fir.</p> <p>Wld : A measurement from digital ortho quad map revealed that the river is 230 feet from edge of the Cedar River. Concur with FMFMD.</p>										
11	Q6	16	125	40	mixed swamp conifer	mature	selection	2	natural regeneration	
<p>comnts Fmd : Select harvest this stand focusing on shorter lived species. The openings created may produce regeneration of these species without loosing the short lived species in this stand. Mark some maple and hardwoods and focus on aspen,balm,and spruce and fir. Long term MO is holding the species composition of aspen,spruce/fir. Large diameter but most species sell for pulpwood.</p> <p>Wld : Concur with FMFMD.</p>										
21	A6	6	62	72	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Mix of aspen and birch. Leave existing white pine for regeneration. Long term MO of A/W. Open in some areas.</p> <p>Wld : Concur with FMFMD.</p>										
26	A5	32	73	73	aspen (upland)	two aged	thinning	2	release	
<p>comnts Fmd : Remove all aspen and leave pine. Protect existing reproduction and harvest during summer months to allow for some exposure of mineral soil of new regeneration. Long term mo is white pine. Aspen is an acceptable alternate regenerating species.</p> <p>Wld : Aspen was thinned in 1995 to promote white pine. Long term objective is white pine. Concur with FMFMD.</p>										
27	W6	23		60	white pine	unevenaged	selection	2		
<p>comnts Fmd : Selective harvest during summer months to allow scarification of the soil for white pine regeneration. Remove to approximately 60 BA marking some high risk pine in the pulpwood and sawtimber size classes. Long term MO is white pine. Large diameter but most species are in the pulpwood size class. Do not cut cedar.</p> <p>Wld : No cutting of white cedar. Concur with FMFMD.</p>										
28	S6	4	90	38	black spruce-swamp	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : This stand is along the north fox road and requires private lines. Long term MO is black spruce.</p> <p>Wld : Concur with FMFMD.</p>										
32	R6	40	57	69	red pine	mature	selection	2	natural regeneration	
<p>comnts Fmd : This stand consists of Red Pine regeneration along the road and white pine regeneration in some places throughout stand. Harvest this stand thinning to 70 BA of Red pine and open up more in areas of white pine/redpine regeneration. Summer harvest for scarification and protect existing reproduction. Keep in mind that this stand has potential for red pine sawlogs and not removing existing stand to low for future sawlogs. Overall some areas should be marked to a lower BA where regeneration is present and can be maximized. Higher red pine volume areas with no regeneration should consider maximizing growth of existing red pine. Long term MO of R/W.</p> <p>Wld : Concur with FMFMD.</p>										
53	A6	6	41	70	aspen (upland)	immature	final harvest	2		
<p>comnts Fmd : This stand is between county road 551 and the big cedar river. Final harvest this stand leaving minor component species and submerchantable spruce and balsam. Aspen should regenerate well.</p> <p>Wld : Concur with FMFMD.</p>										
63	F6	49		60	spruce-fir (uplands- including upland black spruce)	unevenaged	final harvest	2	natural regeneration	
<p>comnts Fmd : Sand pit in this stand. Aspen is a mix of young and older, Balsam Fir is mature. The white pine is older residual and regeneration. Long term MO is white pine. Acceptable alternate regeneration is white pine and aspen. Final harvest and leave mature white pine except mark the high risk white pine.</p> <p>Wld : Do not need to discriminate against aspen because the fir and white pine should grow pretty well. White pine will be left in the overstory, 20BA. Concur with FMFMD.</p>										
65	S6	4	100	37	black spruce-swamp	mature	seed tree	2	natural regeneration	
<p>comnts Fmd : Harvest this stand leaving seed trees on the western edge of the stand.</p> <p>Wld : Concur with FMFMD.</p>										

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 39

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
69	A6	14	73	73	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Remove aspen and allow white pine understory to advance. Summer cutting for scarification. Cut in 1994 to thin out aspen and allow pine regeneration. Leave all pine expect high risk and cross between removal and thinning. The pine harvest in partial cut volumes is not necessarily 10 BA. Remove only high risk pine.</p> <p>Wld : Aspen was thinned in 1995 to promote white pine. Long term objective is white pine. Concur with FMFMD.</p>										
81	A6	24	62	75	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Final harvest this stand. Harvest aspen, spruce/fir,red maple,yellow birch. Leave hemlock,cedar,black ash. The MO of this stand is aspen regeneration with alternate regeneration of spruce/fir for long term mo. Need survey corners and lines. Leave some yellow birch as a component. See wildlife comments for Red shoulder hawk nest.</p> <p>Wld : Leave some yellow birch for diversity. There is an active hawk nest in this stand. Prior to timber harvest, WLD will conduct a hawk survey to determine if nest is active. If the nest is active, appropriate guidelines will be implemented.</p>										
86	M6	49	62	70	northern hardwood	mature	shelterwood-seed	2	natural regeneration	
<p>comnts Fmd : The plots on the east side were higher to m type with a w2 understory and the west side plots were higher to aspen with less white pine. Harvest this stand leaving approximately 30~40 basal area of maple for protection of white pine understory regeneration. Harvest all aspen and aspen is an acceptable alternate regeneration species with white pine as the main regeneration species. If an area of no white pine understory with no white pine overstory then remove all aspen and red maple. Harvest in summer months or when ground is not frozen for scarification. Protect the existing regeneration. The long term mo is white pine and aspen. An acceptable alternate regeneration species is m type as well. This stand will require marking M for leave trees.</p> <p>Wld : Concur with FMFMD.</p>										
Total Acres.....		290								

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 39

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
37	S6	6	108	36	black spruce-swamp	mature	final harvest	2	natural regeneration	

TREATMENT LIMITING FACTORS: Inferior quality

comnts Fmd : Small diameter prescribe with limiting factor.

Wld : Concur with FMFMD.

66	A6	2	55	75	aspen (upland)	mature	final harvest	2	natural regeneration	
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Harvest this stand leaving the cedar and ash unless high risk. Acceptable alternate regeneration is M and F type. Obtaining access is required to prepare this timber sale for bid.

Wld : Access is limited. Concur with FMFMD.

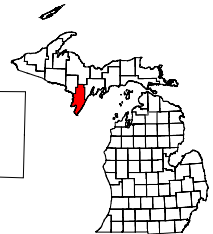
Total Acres..... 8

Field Map

Compartment 39
 T36N, R25W, Sec. 1, 2, 3
 County: Menominee
 Unit: Escanaba
 YOE: 2008
 Acres: 1,531 GIS Calculated
 Stand Examiner: Daniel Racine
 Map Revised: 8/22/2006
 Map Phase: Pre-review

Legend

-  Miris Corners
-  County Gravel Roads
-  Paved Roads
-  Poor Dirt Roads
-  Trails
-  Water Features
-  ORV Trails
-  Stand Boundary
-  Biodiversity/Old growth area
-  100 - Final harvest
-  148 - Final harvest/Natural regeneratoin/Other
-  248 - Seed tree/Natural regeneration/Other
-  348 - Shelterwood-seed/Natural regeneration/Other
-  458 - Thinning/Release/Other
-  800 - Selection
-  848 - Selection/Natural regeneration/Other



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