



**ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #050 ENTRY YEAR: 2008

Compartment Acreage: 1773 County: MENOMINEE

Last Revision: August 9, 2006

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

Legal Description: T35N, R25W, Sections 13, 14, 15 and 23

Management Goals: The compartment is comprised of aspen, upland hardwoods, and other upland timber types. Cedar and hemlock comprise 520 acres with the majority of acres in cedar. The swamp hardwoods consist of over 300 acres and 300 acres in other lowland timber types. Non timber and water types contain 144 acres. The proposed prescriptions for this compartment include ten stands for final harvest, one stand for thinning, one selection and one shelterwood-seed tree harvest. The final harvest stands are in aspen, balsam poplar and spruce-fir timber types. The objective is to regenerate the aspen, balsam poplar, and maintain or increase the spruce-fir components. The management objective of the selection harvest is to improve the quality of the existing stand and regenerate the existing over-story species. The shelterwood-seed tree harvest objective is to enhance the existing regeneration and leave a seed source of spruce-fir and white birch. Also, two stands are proposed for treatment with limiting factors of access through private and too wet. One stand is proposed for a scarification in a hardwood stand to allow for some regeneration of the maple. Due to a significant amount of ORV damage, the upgrade of the trail from the Camp O to the Indian Springs Road is being proposed. Gravel hauling, culvert placement and grading will be required. The proposed treatments within this compartment should consider the ORV trail head and trail route of the Camp O and Town Roads for safety precautions.

Soil and Topography: The soils in the upland timber types consist of Posen fine sandy loam, Wainola fine sand, Onaway-Nadeau fine sandy loam and Solona loam. These soils are deep and somewhat poorly drained to well drained soils. The Cedar and other lowland types contain Tawas-Deford, Deford-Wainola-Rousseau, and Loxley-Dawson. These soils are poorly drained to very poorly drained soils in level to depression areas. The compartment is low and level throughout with some slight ridges. Soils may be a limiting factor for proposed treatments.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is surrounded by state and private land with one parcel of private land within the compartment boundary.

Unique, Natural Features: The Big Cedar River traverses north and south on the eastern side of the compartment and the Walton River traverses the south portion of the compartment.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: There are several stands within this compartment that are designated as Special Conservation Areas with the objective of riparian area management.

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: Two-thirds of this compartment is comprised of lowland cover types: cedar/swamp conifer (34% of acreage), swamp hardwoods (18%), lowland poplar (6%), black spruce (5%), and lowland brush (4%). This compartment contains the mouth of the Big Cedar River (and a marina) where it empties into Lake Michigan, and the confluence of the Walton and Big Cedar Rivers. Forest stands along these rivers have been designated a Special Conservation Area to promote mature forest conditions. Older forest will be valuable as wildlife habitat in these riparian corridors (potential bald eagle nest sites, habitat or cavity nesting birds, etc.). The main treatments prescribed this decade are to harvest and regenerate mature aspen, balsam poplar, and balsam fir stands. The harvested aspen and balsam poplar stands will introduce young, early successional forest to the landscape for wildlife species that utilize this habitat (grouse, deer, woodcock, snowshoe hares, etc.). Regeneration of balsam fir stands will be important to maintain upland conifers in this landscape due to their diminished occurrence in recent decades.

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 13 and there may be potential on the uplands. No economic oil and gas production has been found in the UP.

Vehicle Access: The compartment access is highway M-35, County Road G-12, Town and Camp O Roads. The eastern portion of the compartment is accessed off Old Mill Lane and Dunkas Road through private property.

Survey Needs: Three stands proposed will require some private line work.

Recreational Facilities and Opportunities: The Cedar River access site is located within this compartment. Also, a portion of the Forest Island ORV Trail including the trail head is within the compartment. The other recreational opportunities are hunting, fishing, and sight seeing.

Fire Protection: There are no significant fire dangers within this compartment. Water sites within this compartment are the Big Cedar River, Walton River, and Lake Michigan.

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: 50

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	113	28	101	46											10	344
Black Spruce									93										93
Cedar										15	72	170	192	13	14	20		13	509
Grass	22																		22
Hemlock											4				1			6	11
Lowlnd Brush	41									25									66
Lowlnd Poplr		2	19		1	16	46												84
Marsh	12																		12
Mx Swmp Cnfr						2						31						60	93
Non Stocked	19																		19
Spruce Fir					8	8			68	6									90
Swamp Hrdwds			21		17		30	34	23	173	34							13	345
Upland Hdwds					1				7	46								2	56
Water	25																		25
White Pine									4										4
Total	119	2	86	113	55	127	122	34	195	265	110	201	192	13	15	20		104	1773

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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: 50

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	344																										344
S Black Spruce		93																									93
C Cedar				509																							509
G Grass					22																						22
H Hemlock						11																					11
L LowInd Brush									66																		66
P LowInd Poplr										84																	84
N Marsh											12																12
Q Mx Swmp Cnfr												93															93
X Non Stocked													19														19
F Spruce Fir																			90								90
E Swamp Hrdwds																					345						345
M Upland Hdwds																								56		56	
Z Water																									25	25	
W White Pine																										4	4
Total	344	93		509	22	11			66	84	12	93	19						90	345				56	25	4	1773

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **50**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12522 Cds	Hardwood	2896 Cds
Hardwood	147 Mbf	Hardwood	36 Mbf
Softwood	12996 Cds	Softwood	1562 Cds
Softwood	25 Mbf	Sum CutVol	4530 Cds
Sum TotVol	25862 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	275
1773			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 50

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	A6	30	49	60	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : The west end has areas that are heavier to F type. Final harvest this stand; Harvest the aspen,spruce/fir with 1 or more merchantable sticks,red maple,white birch. Leave green and black ash,cedar and leave out any l or ash swales. Long term MO of aspen with f type as an acceptable alternate regenerating species.</p> <p>Wld : Concur with FMFMD.</p>										
4	P4	4	57	63	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Balsam poplar is dead or dying. Balsam is falling down. Final harvest this stand leaving Cedar, Hemlock, and Ash. Harvest this stand in the winter months.</p> <p>Wld : No cut cedar or hemlock. Concur with FMFMD.</p>										
6	A6	8	53	60	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : 8-11-2006. This stand was altered after the pre-review: Part of 129 is included with this stand. Plots from 129 were grouped with this stand (3 and 4). Leave any areas of black ash and cedar. Take out by final harvest aspen, balm, birch, and spruce/fir with greater than 1 stick. Leave any L and E areas out by not cutting black ash or cedar. Used the yoe and si from old stand 129 before pre-review. Long term MO of aspen. Acceptable regeneration alternate of F type.</p> <p>Wld : Concur with FMFMD.</p>										
8	P6	38	53	70	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Part of the wet foot flats timber sale. Not cut or paid. Leave the cedar, hemlock, and ash.</p> <p>Wld : No cut white cedar. Concur with FMFMD.</p>										
9	M6	5	72	72	northern hardwood	immature		0	other - specify in remarks	
<p>comnts Fmd : Part of the wet foot flats unit 2 cut and marked. Long term mo of M stand. This stand should be scarified to see if we can get hardwood regeneration. Consult with the TMS for the best method. Sand 93 will serve as control to see which will work if any.</p> <p>Wld : Stand 93 will serve as a control. Schedule for scarification. May be difficult to get to. Concur with FMFMD.</p>										
17	M6	40	81	64	northern hardwood	mature	thinning	2	thinning	
<p>comnts Fmd : This stand is already marked for a large portion. 99 species is green ash. Long term MO of M type. Acceptable regeneration mix of f and m types. Retain all white birch that is less than 10" DBH.</p> <p>Wld : Retain white birch that are less then 10" in dbh. Heard red-shouldered hawks in vicinity. Concur with FMFMD.</p>										
18	A5	10		80	aspen (upland)	unevenaged	final harvest	2	natural regeneration	
<p>comnts Fmd : Final Harvest this stand; take aspen,spruce/fir,with 1 or more sticks. Mix of younger and older aspen. Alternate regeneration of M ttype. Long term MO of aspen.</p> <p>Wld : Concur with FMFMD.</p>										
19	P6	4	57	63	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Final harvest this stand; Harvest the balm,birch if any, red maple if any and spruce/fir with 1 or more sticks. Do not cut ash. See wildlife comments.</p> <p>Wld : If found, no cut cedar or hemlock. Concur with FMFMD.</p>										
25	F6	6	78	60	spruce-fir (uplands-including upland black spruce)	mature	shelterwood-seed	2	natural regeneration	
<p>comnts Fmd : Leave some spruce/fir seed trees and if any clumps of white birch. Long term mo is f type with an acceptable regeneration of aspen.</p> <p>Wld : Concur with FMFMD.</p>										

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 50

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
27	F6	38	76	55	spruce-fir (uplands- including upland black spruce)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Final harvest this stand. Harvest all aspen, spruce/fir with 1 or more sticks,red maple. Leave cedar ash. Long term MO is F type with acceptable alternate regenartion of A. Stand cut in early 60's. May have to be harvested in the winter months. Leave seed trees along the red line when setting up the sale. Leave all cedar. See wildlife comments.</p> <p>Wld : Leave all white cedar. Leave a scattering of fir/spruce along the red line for a seed source. Concur with FMFMD.</p>										
39	Q6	29		55	mixed swamp conifer	unevenaged	selection	2	natural regeneration	
<p>comnts Fmd : Stay out of the ash areas. Selectively harvest this stand;focus on marking the red maple,white birch,yellow birch, and some green ash. Do not eliminate any of these species. Take any merchantable spruce and balsam except a couple of seed trees. Long term MO is to increase the F type and hemlock and cedar areas and trying to regenerate some of the light seeded species. Acceptable alternate regen mix of white birch and ash.</p> <p>Wld : Concur with FMFMD.</p>										
117	F6	26	76	55	spruce-fir (uplands- including upland black spruce)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Lot of blowdown. Final harvest this stand; harvest spruce/fir with 1 or more sticks,harvest birch,aspen,red maple. Leave the cedar where volumes are higher. Long term mo is f with acceptable regeneration of aspen. Pockets of higher ba's of cedar. Where the cedar volumes are higher put a red line around and the areas where there is less harvest the cedar. Expect no more than 30 cords of cedar to be harvested. Also, leave seed trees along the red line when setting up the sale.</p> <p>Wld : Leave a scattering of fir and spruce along the west red line for a seed source. It is okay to cut 20-30 cords of white cedar without notifying WLD. Red line around heavier cedar clumps as leave islands.</p>										
119	A6	32	39	75	aspen (upland)	immature	final harvest	2	natural regeneration	
<p>comnts Fmd : Balsam fir is dying; this stand is variable with overmature balsam and 40 year old aspen. Final harvest; salvaging the f type and aspen and most red maple. Leave any ash areas. Long term mo of F and aspen as acceptable alternate regeneration. Leave the cedar.</p> <p>Wld : No cut white cedar. Concur with FMFMD.</p>										
Total Acres.....		270								

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 50

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
56	M6	6	85	60	northern hardwood	mature	selection	2	natural regeneration	

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Princess pine in the understory. Select harvest this stand removing to 70BA leaving the hemlock and white pine. F understory. Regeneration may be difficult access is limited.

Wld : Access is limiting factor. Concur with FMFMD.

97	F6	4	74	56	spruce-fir (uplands- including upland black spruce)	mature	final harvest	2	natural regeneration	
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TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)
Inadequate volume due to small acreage

comnts Fmd : Inadequate volume due to small acreage. Harvest this stand when stand 14 is harvested.

Wld : Access is limiting factor. Concur with FMFMD.

Total Acres..... 10

