



**ESCANABA FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT: #042    ENTRY YEAR: 2007**

**Compartment Acreage: 2549    County: Menominee**

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*Last Revision: October 7, 2005*

**Stand Examiner:** Dan Racine, Forester, FMFMD; Natalie Nelson-Randall and Craig Albright, Wildlife Division

**Legal Description:** T36N R25W Sections 4,5,8,9,16,17.

**Management Goals:** This compartment is comprised of 1462 acres of upland forest types including Aspen, Paper Birch, Red Pine, Spruce/Fir, and Upland Hardwoods. There is 871 acres of lowland forest types including Black Spruce, Cedar, Mixed Swamp Conifer, and Swamp Hardwoods. There are 24 acres of Grass and 46 acres of water. There are a total of 14 stands proposed for treatment. Stands 14, 18, and 8 are Black Spruce stands with a final harvest treatment. These stands will naturally regenerate to Black Spruce. Stand 8 is limited by access during a period when the ground is frozen. Stands 15, 33, 99, 103, 140, 142, 143, 159, and 127 are mature Aspen stands with a final harvest for treatment. The management objective is to naturally regenerate Aspen and Spruce/Fir. The treatment for stand 31 is a thinning, removing early successional species and some areas with higher basal areas of Cedar. The management objective is to regenerate the early successional species and create diversity before these species disappear in this stand. Stand 400 is proposed for prescribed burning. Smaller equipment may be needed for this burn due to access problems on E-1 lane and the Apple trees must be protected.

**Soil and Topography:** The majority of soils in this compartment consist of Tawas-Deford, Lupton-Tawas, Deford mucky fine sand, Onaway fine sandy loam, and Rousseau fine sand. The upland types are Onaway and Rousseau soils that are well drained on upland ridges and knolls. The lowland forest types are in the Tawas-Deford, Lupton-Tawas, and Deford mucky fine sand in nearly level drainages. The soil limitations in the lowland types are severe wetness. The soil limitations in the upland types are wetness during the spring and very wet times of the year.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is surrounded by private lands to the west and state land to the north, south, and east. There are some parcels of private interspersed within this compartment. The private lands are owned by non-industrial private landowners. The Cedar River runs throughout this compartment.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The Cedar River and Devils Creek run throughout this compartment.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None Known.

**Special Management Designations or Considerations:** None.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** *Landscape Context:* Most of this compartment is within a broad plain of loamy soils deposited by glacial activity. Drumlin ridges, trending northeast to southwest, are common.

Historically the ridge tops were covered with northern hardwood forests of sugar maple, beech, hemlock, cedar, and yellow birch. Between the ridges, swamps of cedar, tamarack, black spruce, or bog were common. The southeast corner of this compartment is part of a sand “lake plain” located between Escanaba and Menominee. This plain historically supported forests of hemlock and white pine on ridges, and extensive conifer swamps in low areas. Wind throw was the most common natural disturbance regime in this compartment. During the past 100 years, aspen has increased greatly in this area while white pine, red pine, and hemlock have declined.

*Wildlife Considerations this Decade:* Currently this compartment is comprised of a large acreage of aspen and northern hardwoods, particularly in the south half. The north half of the compartment has more lowland conifer present. The main management treatments this decade are to regenerate mature aspen stands which will benefit early successional wildlife species. A 10-acre grass opening containing apple trees and cherry will be prescribe burned to inhibit encroaching trees and brush and stimulate herbaceous plants. Forest stands along the Big Cedar River have been protected with a designation of “special conservation area.” This designation will allow trees to grow larger, develop cavities for dens and nest sites, and provide woody debris on the forest floor—to the benefit of riparian wildlife species.

**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 Formation underlies the glacial drift and is quarried for stone west of Escanaba. This area has not been leased previously. A gravel pit is located in Sections 18 and there is potential on the upland drumlins. No economic oil and gas production has been found in the UP, although a recent well was drilled and cased for testing in Schoolcraft County.

**Vehicle Access:** The vehicle access to this compartment is off county roads 551 and 366. The D-4 and E-1 lane access into this compartment as well. The existing roads allow good access throughout much of this compartment for proposed treatments. Road work may be required for proposed treatments for hauling purposes. Vehicle access is not limited by private ownership for proposed treatments.

**Survey Needs:** None

**Recreational Facilities and Opportunities:** The Forest Island ORV trail and Cedar River Pathway run throughout the south part of this compartment. The recreational opportunities in this compartment are skiing, ORV riding, hunting, fishing, and walking.

**Fire Protection:** This compartment consists of fuel types that are a higher risk for fire danger including Red Pine and openings. There are some areas of upland species that are on drier sites. The water sources for this compartment are the Cedar River and Devils creek. Some types of fire starts may pose a problem for access but overall access for fire equipment is adequate in 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

MENOMINEE COUNTY

COMPARTMENT: 42

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		114	245		215	60	112	57	22	27	7								859
Black Spruce								5		1	6								12
Cedar								9		23	54	118	97	7	4		104		416
Grass	24																		24
Lowlnd Brush	104																		104
Mx Swmp Cnfr					4		21	84		34		48	6		7		17		221
Non Stocked	51																		51
Paper Birch																		7	7
Red Pine							9												9
Spruce Fir			31							43	4								78
Swamp Hrdwds						66	16	36	95	9									222
Upland Hdwds								137	115	2								246	500
Water	46																		46
<b>Total</b>	<b>225</b>	<b>114</b>	<b>276</b>		<b>219</b>	<b>126</b>	<b>158</b>	<b>328</b>	<b>232</b>	<b>139</b>	<b>71</b>	<b>166</b>	<b>103</b>	<b>7</b>	<b>11</b>		<b>121</b>	<b>253</b>	<b>2549</b>

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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: 42

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	859																										859
S Black Spruce		12																									12
C Cedar				416																							416
G Grass					24																						24
L Lowlnd Brush									104																		104
Q Mx Swmp Cnfr												221															221
X Non Stocked													51														51
B Paper Birch															7												7
R Red Pine																9											9
F Spruce Fir																			78								78
E Swamp Hrdwds																				222							222
M Upland Hdwds																								500		500	
Z Water																									46	46	
<b>Total</b>	859	12		416	24				104			221	51		7	9			78	222				500	46	2549	

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **42**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	15922 Cds	Hardwood	2839 Cds
Hardwood	281 Mbf	Hardwood	18 Mbf
Softwood	10722 Cds	Softwood	1159 Cds
Softwood	81 Mbf	Sum CutVol	4034 Cds
Sum TotVol	27368 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	197
2549			

**ESCANABA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 42**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
14	S6	3	90	45	black spruce-swamp	mature	final harvest	2	natural regeneration	
comnts Fmd : The long term MO is an S type. Leave some spruce on nw edge for seeding into stand. Cut in winter. Aspen and spruce fir along the edge. Alternate management objective is balsam fir.										
15	A6	18	56	70	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : Mark the hardwood on N line. Long term MO is A/F. Final harvest leaving sub merchantable spruce and balsam. The marked hardwoods on N line will be cut with the stand in compartment 36 to the north. Leave the cedar on the edge.										
18	S6	1	80	45	black spruce-swamp	mature	final harvest	2	natural regeneration	
comnts Fmd : Long term MO is S. This is old stand #56. Alternate mo is balsam fir										
22	F6	36	80	55	spruce-fir (uplands-including upland black spruce)	mature	final harvest	6	natural regeneration	
comnts Fmd : LONG TERM MO IS AN F TYPE;THE STAND IS CURRENTLY UNDER CONTRACT;ST.JOHN FOREST PRODUCTS. OLD STAND 20.										
23	M6	4	62	60	northern hardwood	in process of regeneration	selection	6		
comnts Fmd : UNIT 2 OF E-1 LANE SALE FROM ST JOHN FOREST PRODUCTS. THE LONG TERM MO IS M.										
29	F6	4	92	40	spruce-fir (uplands-including upland black spruce)	mature	seed tree	6		
comnts Fmd : THIS STAND IS CURRENTLY UNDER CONTRACT; E-1 LANE ST.JOHN FOREST PRODUCTS;LONG TERM MO IS TO MAINTAIN AN F TYPE WITH ASPEN REGENERATION AND PROTECTING THE EXISTING LONG LIVED SPECIES. OLD STAND @26										
31	C6	7	92	40	cedar	mature	thinning	2		
comnts Fmd : SOME AREAS OF MUCH HIGHER BA'S OF CEDAR AND AREAS WITH MORE ASPEN,BIRCH,AND BALSAM.HARVEST THIS STAND AS A THINNING. REMOVE THE OLDER ASPEN,BIRCH, BASSAM AND ONLY CEDAR NECESSARY TO OPERATE. THIS WILL ASSOW REGERATION OF OVERSTORY SPECIES AND INCREASE F TYPE AND MAINTAIN QUALITY CEDAR. LONG TERM MO IS CEDAR.										
33	A6	9	62	55	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : long term mo is a/f. Leave any cedar. This is old stand #39										
99	A6	16	63	60	aspen (upland)	mature	final harvest	2	natural regeneration	
103	A6	13	78	62	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : LONG TERM MO IS A										
127	A5	16	55	60	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : Regenerate aspen with final harvest.										
140	A6	7	74	65	aspen (upland)	immature	final harvest	2	natural regeneration	
comnts Fmd : OLD GROWTH IN ADJACENT COMPARTMENT.Regenerate aspen with final harvest.										
142	A6	9	63	60	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : EXPECT ASPEN REGENERATION AND WHITE PINE REGERATION IN THIS STAND. LEAVE THE WHITE PINE IN THE OVERSTORY. FUTURE CONDITION OF A/F/W										
143	A6	13	54	65	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : FINAL HARVEST. THE MANAGEMENT OBJECTIVE IS ASPEN.										
146	M6	2	78	56	northern hardwood	in process of regeneration	thinning	6		
comnts Fmd : MANAGED WITH COMP 41										

**ESCANABA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 42**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>159</b>	<b>A6</b>	36	55	60	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : STAND 173 IS A BUFFER FOR THIS STAND. LONG TERM MO IS A/F. CUT ALL SPECIES 2" AND GREATER IN DIAM. EXCEPT W.P,CEDAR,HEMLOCK. CUT ALL SPRUCE AND BALSAM THAT HAVE GREATER THAN 1 STICK.										
<b>400</b>	<b>G0</b>	10			grass	nonstocked		0	opening maintenance	
comnts Fmd : SOME APPLE TREES. Protect the apple trees in the opening. Prescribed burn with access limited on e-1 lane for large fire equipment.										

**Total Acres..... 204**

**ESCANABA FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 42**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
8	S6	3	90	45	black spruce-swamp	mature	final harvest	2	natural regeneration	

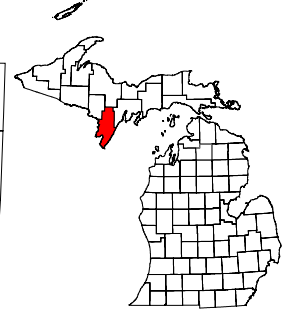
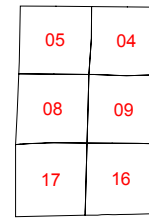
TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)

comnts Fmd : The access in this stand would be difficult unless the area freezes completely though the adjacent stand 10. Long term MO is spruce. In the area where there is more of a Q type take out the aspen, tamarack and mature spruce and balsam. Leave some spuce on MW edge for seeding into stand. Harvest only in the winter. Regerating this stand to black spruce and aspen and spruce/fir in the less black spruce dominate areas. Alternate management objective is balsam fir.

**Total Acres..... 3**

Compartment 42  
 T36N, R25W, Sec. 4, 5, 8, 9, 16, 17  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2007  
 Acres: 2,549 GIS Calculated  
 Stand Examiner: Dan Racine  
 Map Revised: 10/13/2005  
 Map Phase: Pre-review

# Field Map



## Legend

- Miris Corners
- - - County Gravel Roads
- - - County Dirt Roads
- - - Poor Dirt Roads
- ..... Trails
- Water Features
- Ski Trails
- ORV Trails
- Stand Boundary
- Biodiversity/Old growth area
- 027 - Opening maintenance
- Prescribed burning
- 148 - Final harvest
- Natural regeneration/Other
- 200 - Seed tree
- 400 - Thinning
- 800 - Selection
- Name County Gravel Roads
- Name County Dirt Roads
- Name Public Dirt Roads
- Name Water Features

