



## ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

**COMPARTMENT 95 ENTRY YEAR: 2009**  
**Compartment Acreage: 1,386      County: Delta**

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*Last Revision: July 11, 2007*

**Stand Examiner:** Dan McNamee, FMFMD; Bill Rollo, Wildlife Division

**Legal Description:** T43N, R22W, Sections 23, 26, 35, and 36

**Management Goals:** Management emphasis will be on aspen for pulpwood production and northern hardwood for sawtimber production. Maintain the lowland conifer types to provide cover and other habitat.

**Soil and Topography:** Topography ranges from level to small hills with moderate slopes. Soils are poorly drained non-acid organics, poorly drained loams, and well drained loams.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

**Unique, Natural Features:**

**Archeological, Historical, and Cultural Features:** N/A

**Special Management Designations or Considerations:** Management within stands that border the Rapid River will use practices as outlined in the Best Management Practices (BMP) manual.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** *Ecological Context:* This compartment is within a broad plain of loamy ground moraine. Historically the uplands were covered with northern hardwood forests of sugar maple, beech, hemlock, cedar, and yellow birch. Lowlands were swamps of cedar, tamarack, black spruce, or bog. Small knolls within wetlands were often dominated by hemlock and white pine. Wind throw was the most common natural disturbance regime. During the past 100 years much of this landscape was converted to agriculture. Aspen forest increased greatly and hemlock and white pine declined due to early-day logging practices.

*Recommendations:* This compartment has a large component of northern hardwood forest, lowland hardwood, and aspen. The main treatments proposed for this decade are hardwood thinnings. There may be an opportunity to restore a conifer component (white pine and hemlock) to northern hardwood stands that lack diversity by under-planting them following thinning. Several small aspen and balsam poplar stands are proposed for harvest and regeneration which will provide habitat for early successional wildlife species. Forest stands along the Rapid River and Boudreau Creek will continue to be designated a "Special Conservation Area" to promote mature forest conditions for wildlife along the riparian corridors. Timber harvesting during the non-winter months will be encouraged to guard against large buildups of deer which could overwhelm the developing hardwood regeneration.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of medium-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Group underlies the glacial drift. The Trenton is quarried for stone and may overlap Precambrian aged rocks which may have metallic and nonmetallic mineral potential. Part of this area has been previously leased for metallic exploration, but not currently. Gravel pits are located to the west and there should be potential. No economic oil and gas production has been found in the UP.

**Vehicle Access:** Access to the north part of the compartment in Section 23 is good via the county roads. The rest of the compartment is less accessible as permission from private landowners that surround these areas is needed.

**Survey Needs:**

**Recreational Facilities and Opportunities:** Hunting and trapping.

**Fire Protection:**

**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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: 95

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		68	137		16				15										236
Cedar									3		62								65
Grass	41																		41
Local Name	3																		3
LowInd Brush			1			10												24	35
LowInd Poplr			47	6	8				19	17									97
Marsh	12																		12
Mx Swmp Cnfr						1		2			75							20	98
Non Stocked	2																		2
Spruce Fir		10	22						3										35
Swamp Hrdwds					4				10	27								162	203
Upland Hdwds								47	32	73								391	543
Water	16																		16
<b>Total</b>	<b>74</b>	<b>78</b>	<b>207</b>	<b>6</b>	<b>28</b>	<b>11</b>		<b>49</b>	<b>82</b>	<b>117</b>	<b>137</b>							<b>597</b>	<b>1386</b>

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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: 95

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	236																										236
C Cedar				65																							65
G Grass					41																						41
I Local Name								3																			3
L Lowlnd Brush									35																		35
P Lowlnd Poplr										97																	97
N Marsh											12																12
Q Mx Swmp Cnfr												98															98
X Non Stocked													2														2
F Spruce Fir																			35								35
E Swamp Hrdwds																			203								203
M Upland Hdwds																								543			543
Z Water																									16		16
Total	236			65	41			3	35	97	12	98	2						35	203				543	16		1386

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: **95**

*Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS*

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	13958 Cds	Hardwood	1892 Cds
Hardwood	758 Mbf	Hardwood	151 Mbf
Softwood	5222 Cds	Softwood	225 Cds
Sum TotVol	20696 Cds	Sum CutVol	2419 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	339
1386			

**ESCANABA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 95**

**Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
<b>4</b>	<b>M6</b>	17	67	55	northern hardwood	immature	selection	1		
comnts Fmd : Patches of aspen are scattered throughout this stand. Lots of young balsam in the understory. In stand retention will include: under represented spp., conifer and deciduous diversity, mast trees, super canopy, live cavity trees.										
Wld : GLO survey notes: "That upon the dry land being Hemlock, Sugar, Yellow Birch, Fir, Lynn (basswood), Elm, Maple, Ironwood....The eastern and south eastern portion is the least swampy and is thickly wooded with sugar, hemlock, maple, fir, and some beech." WLD and FMFMD will evaluate stands under prescriptions, with the help of Kotar, to determine which ones will be underplanted.										
<b>22</b>	<b>M6</b>	30	63	60	northern hardwood	immature	selection	1		
comnts Fmd : nice stand of hardwood, Treat this time around. Thin BA to 80. Within stand retention will include: under represented spp., coniferous/deciduous for diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>28</b>	<b>M6</b>	10	82	60	northern hardwood	mature	selection	1		
comnts Fmd : NE part of stand has patch of aspen. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>29</b>	<b>A6</b>	8	77	60	aspen (upland)	mature	final harvest	1		
comnts Fmd :										
Wld : Concur with FMFMD.										
<b>37</b>	<b>M6</b>	6		57	northern hardwood	unevenaged	selection	1		
comnts Fmd : Light thinning needed. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>40</b>	<b>P5</b>	8	77	50	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1		
comnts Fmd : Lots of overmature timber. Try to salvage whats left standing.										
Wld : Concur with FMFMD.										
<b>52</b>	<b>M6</b>	50		60	northern hardwood	mature	selection	1		stand with fdf potential
comnts Fmd : Stand cut in 1989. Could use another thinning now. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>60</b>	<b>M6</b>	8		55	northern hardwood	unevenaged	thinning	1		
comnts Fmd : Remove the larger red maple and y. birch. Remove all aspen, and > 2 stick balsam. Leave hemlock inclusions. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>65</b>	<b>P6</b>	11	77	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1		
comnts Fmd : Remove the overmature P,Wb,Fb, A, R. maple, and Spruce. Leave some patches of timber that include all spp. Patch or patches should be big enough to meet th within stand retention guidelines.										
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.										
<b>72</b>	<b>M6</b>	16		60	northern hardwood	unevenaged	selection	1		
comnts Fmd : Opening separates stand 75 and this stand. They were both treated at the same time last time around. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>75</b>	<b>M6</b>	28		60	northern hardwood	unevenaged	selection	1		stand with fdf potential
comnts Fmd : Ancillary stand. Cut in 1992. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>84</b>	<b>M9</b>	85		60	northern hardwood	unevenaged	selection	1		stand with fdf potential
comnts Fmd : Cut in 1992 under contract 16-89-01. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
<b>97</b>	<b>M6</b>	7	77	55	northern hardwood	mature	selection	1		
comnts Fmd : Treat with stand 84. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										

ESCANABA FOREST MGT UNIT

Proposed Treatments  
With NO Limiting Factors

Compartment: 95

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
106	M6	20	72	60	northern hardwood	mature	selection	1		stand with fdf potential
comnts Fmd : Stand was thinned in 1992 under contract 9-89-01, thin again and treat with stand 107. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
107	P6	17	82	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1		
comnts Fmd : This stand should have been treated last time around. Lost some timber, still have pockets where it good but there are areas where timber is spotty.										
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.										
111	M6	18		60	northern hardwood	unevenaged	selection	1		stand with fdf potential
comnts Fmd : Cut in 1992, under contract 16-89-01. Access could be tough but it was cut at one time so it should be able to be done again. Within stand retention will include: under represented spp., coniferous/deciduous diversity, mast trees, large/super canopy trees and live cavity trees.										
Total Acres.....		339								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 95**

**Entry Year: 2009**

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<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
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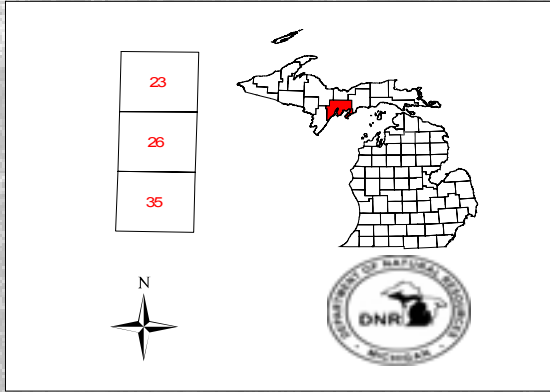
TREATMENT LIMITING FACTORS:

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**Total Acres..... 0**

# Field Map

Compartment 95  
 T43N, R22W, Sec. 23, 26, 35  
 County: Delta  
 Unit: Escanaba  
 YOE: 2009  
 Acres: 1,386 GIS Calculated  
 Stand Examiner: Dan McNamee  
 Map Revised: 7/18/2007  
 Map Phase: Pre-review



## Legend

- Miris Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Water Features
- Stand boundaries
- Biodiversity/Old Growth Area
- 100 - Final Harvest
- 400 - Thinning
- 800 - Selection

