



## ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

**COMPARTMENT # 2 ENTRY YEAR: 2009**  
**Compartment Acreage: 1432 County: Menominee**

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Last Revision: July 6, 2007

**Stand Examiner:** Kelly Standerfer, FMFMD; Bill Rollo and Craig Albright, Wildlife Division.

**Legal Description:** T37N-R27W, Sections 7, 8, and 9.

**Management Goals:** This year of entry (YOE), management goals are focused on managing for a mixture of both vegetative and wildlife diversity. This compartment contains a wide variety of cover types ranging from upland aspen and maple types to lowland cedar and mixed conifer types. This YOE several mixed hardwood stands will be treated to increase the overall health and growth rates of the stands. A variety of species will be maintained within these stands to help maintain species diversity. Also for this YOE, there will be one aspen stand that will be final harvested for aspen regeneration and one upland spruce and fir stand that will be final harvested.

**Soil and Topography:** Level to rolling, some hills. Upland: Lupton-Cathro association and Cathro-Ensley complex. Lowland: Longrie-Onaway, Onaway, Summerville, and Summerville-Longrie; all fine sandy loams.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The majority of the compartment borders state land. However there are some private in-holdings within this compartment. Most of the in-holdings are used primarily as recreation properties but one landowner does have Christmas trees that are trimmed for commercial sale. State owned lands to the south of this compartment are in the proposed "Carney Fen Natural Area". The majority of this area will likely be managed for late succession and no lowland treatments will occur.

**Unique, Natural Features:** This area has the potential to harbor many rare and endangered species including red-shouldered hawk, goshawk, eagle, osprey, great blue heron rookery, moose and wolf. In the form of vegetative unique and natural features, this area has the potential for calypso, ram's head lady's-slipper, marsh grass-of-parnassu, Assiniboia sedge and climbing fumitory in northern hardwoods.

**Archeological, Historical, and Cultural Features:** None known to exist.

**Special Management Designations or Considerations:** Some of this compartment has been identified as "Special Conservation Areas" (previously known as "potential old growth").

**Watershed and Fisheries Considerations:** No RDR (Resource Damage Reports) have been submitted for corrective action in this compartment.

**Wildlife Habitat Considerations:** *Ecological Context:* This compartment is within a broad plain of loamy ground moraine. Drumlin ridges, trending northeast to southwest, are common throughout. 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. 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:* The west half of this compartment is dominated by young aspen forest and small openings. The aspen cover type continues both to the north and south of this compartment, forming a swath of early-successional forest nearly 3 miles long by 1-2 miles wide. This habitat is favored by many of the popular game species such as deer, grouse, woodcock, and bear. Within this area, an aspen stand and a fir stand are proposed for final harvest which will maintain this habitat. The east half of the compartment is the more common drumlin topography with ridges of northern hardwood alternating with swamps of cedar. Several hardwood treatments are proposed, and maintenance of vegetative diversity is recommended. A 180-acre block of predominately cedar swamp is designated as a "Special Conservation Area" in the northeast portion of the compartment to provide connectivity of mature forest habitat with stands in Compartment 1 to the north. The east half of the compartment will provide habitat for wildlife that favor more mature forest. Although there was interest expressed by forest managers to harvest some cedar in this compartment, these treatments were deferred due to unreliable regeneration success.

**Mineral Resource and Development Concerns and/or Restrictions:** Compartment 2: Sections 7 – 9, T37N-R27W, Menominee County: Surface sediments consist of medium-textured glacial till with drumlins. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Trempealeau Formation underlies the glacial drift. The Trempealeau could be quarried for dolostone. This compartment has not been leased for metallic exploration, but part of Compartment 3 was previously leased. Gravel pits are located two miles to the west and potential is good on the upland drumlins. No economic oil and gas production has been found in the UP.

**Vehicle Access:** This area has good access via both branches of the DeTemple Road. Extensive road work was completed in 2006 on both branches so only typical grading should be needed for the near future.

**Survey Needs:** A survey may be needed for the south edge of stand 19.

**Recreational Facilities and Opportunities:** There are no officially designated or maintained sites. However the area is used for hunting and camping.

**Fire Protection:** No significant control problems foreseen due to the lack of explosive fuels and an abundance of natural fuel breaks, such as low wet stands of timber and lowland brush. Low wet areas will impede fire suppression as well as fire spread.

**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: 2

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		42	198	165	22		8			40									475
Cedar											89	241	43						373
Grass	29																		29
Lowlnd Brush	3																		3
Lowlnd Poplr				25															25
Marsh	21																		21
Mx Swmp Cnfr								10	4		24								38
Non Stocked	1																		1
Red Pine			8																8
Spruce Fir			16	13	30				24										83
Swamp Hrdwds									9										9
Tamarack				10															10
Upland Hdwds		25						19	58	201								54	357
Total	54	67	222	213	52		8	29	95	241	113	241	43					54	1432

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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: 2

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	475																										475
C Cedar				373																							373
G Grass					29																						29
L LowInd Brush									3																		3
P LowInd Poplr										25																	25
N Marsh											21																21
Q Mx Swmp Cnfr												38															38
X Non Stocked													1														1
R Red Pine															8												8
F Spruce Fir																			83								83
E Swamp Hrdwds																				9							9
T Tamarack																					10						10
M Upland Hdwds																								357			357
Total	475			373	29				3	25	21	38	1		8				83	9	10			357			1432

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **2**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6504 Cds	Hardwood	851 Cds
Hardwood	598 Mbf	Hardwood	22 Mbf
Softwood	7377 Cds	Softwood	317 Cds
Softwood	4 Mbf	Sum CutVol	1212 Cds
Sum TotVol	15085 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	106
1432			

**ESCANABA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 2**

**Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>18</b>	<b>A5</b>	40	80	50	aspen (upland)	low quality	final harvest	1	natural regeneration	
<p>comnts Fmd : Cut all A, Fb, Fs, M &amp; Basswood that is merchantable. Spruce and Fir are in bad shape due to bud worm outbreak. long term MO of mixed A and F. Leave cherry, pine and white oak for seed &amp; retention. West 2/3 of stand has quite a bit of F and poor quality A. Mark some ash to leave @ south end of stand to protect wet area near survey corner. Don't clear cut right up to the vernal pond.</p> <p>Wld : Concur with FMFMD. Stand 23 has 2 hawk nests present. May want to determine whether these nests are active and species (may have an effect on sale boundaries). As a reference, use the Within-Stand Retention Guidelines. This document includes targeted retention characteristics that may include; diversity (tree species, vertical, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
<b>22</b>	<b>M6</b>	15	72	58	northern hardwood	immature	shelterwood-seed	2	natural regeneration	
<p>comnts Fmd : south end of stand mainly IW, Bw, B and some Fb and M. Quite a few 2-4" maple saps that should release OK. Some areas of nicer 6-8" maple poles. Midas well cut with stand 18. Cut larger BW, Cut all A, Fb and mark all other species to 30-70 BA. Leave thicker pole areas of maple around 70ish and cut the rest down to 20-30 BA.</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, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
<b>51</b>	<b>M6</b>	5	76	72	northern hardwood	immature	thinning	1		prescribed for fdf treatment
<p>comnts Fmd : Long term Mo of mixed M and F. Try to release some of the nice maapple poles and take out some of the baswood clumps. Target BA of 70-90. Most maple is fairly bumpy and poor quality.</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, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
<b>54</b>	<b>M6</b>	11	76	72	northern hardwood	immature	thinning	2		prescribed for fdf treatment
<p>comnts Fmd : High % of stems are Basswood. Thin stand to release nicer poles. Favor retention of maple over basswood. Thin to 80-90. North west edge of stand is on fairly steep slope but should be harvestable.</p>										
<b>56</b>	<b>F5</b>	24	76	52	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : This was on contract 026-01-01, but it was not cut. Spruce budworm has killed a lot of the spruce and balsam. Cut all merchantable trees. Save pine and cherry and mark a few cedar to leave for diversity and retention when the sale is set up. If pine, cherry, and sub-merchantable trees are retained very few green trees will be needed. It is OK to mark some pine to cut when the sale is set up but the majorety should be retained.</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, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
<b>64</b>	<b>M6</b>	11	72	55	northern hardwood	immature	shelterwood-seed	2	natural regeneration	
<p>comnts Fmd : variable stand. Some is mixed poor quality M (Mr &amp; Ms) Bw, Birch, aspen and scattered Fb &amp; Fs. Some is more open with Fb, Fs &amp; A. some is decent maple poles. Long term MO is mixed M, F, &amp; A. Overall mark to ~30-40BA. save all elm and pine. Leave nice pole areas a bit thicker and areas with an abundance of Ff, Fs, and A can be opened up more to 10-20 BA or less. AS PER PRE_REVIEW WILDLIFE WOULD LIKE TO MAINTAIN AT LEAST 3-4 Birch/acre where available.</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, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
<b>Total Acres.....</b>		<b>106</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 2**

**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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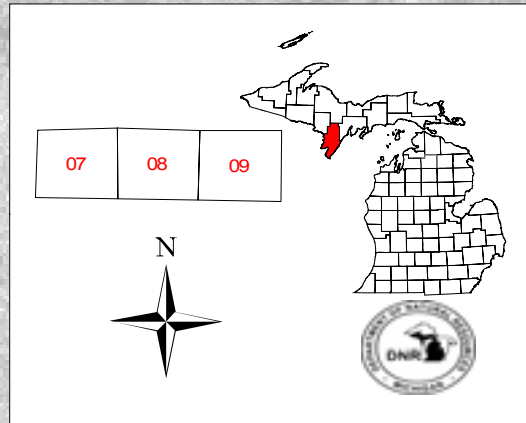
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TREATMENT LIMITING FACTORS:

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

Compartment 2  
 T37N, R27W, Sec. 7, 8, 9  
 County: Menominee  
 Unit: Escanaba  
 YOE: 2009  
 Acres: 1,432 GIS Calculated  
 Stand Examiner: Kelly Standerfer  
 Map Revised: 7/16/2007  
 Map Phase: Pre-review



# Field Map

- Legend**
- Miris Corners
  - Gravel Roads
  - Poor Dirt Roads
  - Water Features
  - Gates
  - Berms
  - Stand Boundary
  - Biodiversity/Old Growth Area
  - 148 - Final Harvest/Natural Regeneration
  - 300 - Shelterwood-seed
  - 348 - Shelterwood-seed/Natural Regeneration
  - 400 - Thinning

