



**ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 52 ENTRY YEAR: 2008

Compartment Acreage: 1394 County: Menominee

Last Revision: August 9, 2006

Stand Examiner: Dustin Salter; Forester, FMFMD; Bill Rollo and Craig Albright, Wildlife Division

Legal Description: T35N, R25W, Sections 5 and 6

Management Goals: This compartment contains a mix of lower quality hardwood stands, aspen stands, and poor quality cedar swamps. This decade we will be treating some stands of all the different cover types. We will be final harvesting four aspen stands, with the intention of retaining this acreage as aspen. We will be thinning two of the hardwood stands to improve sawlog production. There will also be four other poorer quality hardwood stands treated. Two of these stands have a full stocking of balsam, spruce, and white pine regeneration that we will be releasing. We will release them by removing the overstory of hardwood. The other two hardwood stands will be treated with a shelterwood cut to convert these stands in the future to a mix of balsam, spruce, and white pine. A two-aged red pine stand will also be treated. The overstory will be removed to allow the existing pine regeneration to be released. Two lowland conifer stands will be treated as well to maintain them as lowland conifer stands.

Soil and Topography: This compartment contains: Deford-Wainola-Rousseau Complex; Lupton-Tawas association; Tawas-Deford complex; Rousseau fine sand; and Onaway fine sandy loam; among another few minor soil types. The lowland areas of this compartment are comprised mainly of poorly drained black muck over fine sand and sandy loam. The upland areas have some rolling terrain that is well drained. These upland areas are primarily sandy loam and fine sand over fine sandy loam and fine sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state owns all of the land within these two sections. The state owns large amounts of acreage around three sides of this compartment. Within some of the adjacent compartments there are some private inholdings, but overall the state owns the majority of the land around the three sides. The west side of the compartment borders on a large area of private ownership, which contains a number of different family farms. There is no development within this compartment. The primary use of this compartment is for recreation, primarily hunting and riding ORV's.

Unique, Natural Features: None known

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: Elwood Creek flows through parts of the southern portion of the compartment.

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: This compartment has a large acreage of upland aspen, northern hardwood, balsam fir, and pine forest. This landscape shows a natural inclination to grow balsam fir and white pine in the understory of these stands. Due to the major loss in upland conifer forest over the past century, and the associated decline in upland conifer wildlife habitat, prescriptions are designed to encourage natural conversion of some stands to fir and pine over the next 10 to 50 years. One-third of this compartment will continue to be managed for early successional aspen habitats, thus benefiting species that are dependent on this management.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and medium-textured 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 for metallic exploration previously. A gravel pit is located in Sections 1 to the west and there may be potential on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: This compartment has very good vehicle access. The Westman Dam Road runs through the center of the compartment. This road is a maintained county road. In the southeast portion of the compartment the Elwood Creek Road runs through a portion of the compartment. This is one of the state's system roads. Off of both of these roads there are a number of two-track roads that branch off.

Survey Needs: None

Recreational Facilities and Opportunities: There are no developed recreational facilities within this compartment. The primary opportunities are hunting, camping, ORV riding, snowmobiling, and fishing.

Fire Protection: The majority of this compartment contains lower wetter soils which would make it difficult for a fire to carry through a large area of the compartment. Access is good and there are a number of water resources in close proximity to 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: 52

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		66	194	75	10		13	63										36	457
Black Spruce		5				7			13										25
Cedar											30	13		2			45		90
Hemlock												4					11		15
LowInd Brush	222																		222
LowInd Poplr									5										5
Mx Swmp Cnfr							5			7								4	16
Red Pine								46											46
Spruce Fir		110																	110
Swamp Hrdwds							8	9	46	24	24								111
Treed Bog	9																		9
Upland Hdwds								96	65		5							59	225
White Pine									63										63
Total	231	181	194	75	10	7	26	214	192	31	59	17		2			56	99	1394

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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: 52

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	457																										457
S Black Spruce		25																									25
C Cedar				90																							90
H Hemlock						15																					15
L LowInd Brush									222																		222
P LowInd Poplr										5																	5
Q Mx Swmp Cnfr											16																16
R Red Pine																										46	46
F Spruce Fir																			110								110
E Swamp Hrdwds																				111							111
D Treed Bog																						9					9
M Upland Hdwds																			102					123			225
W White Pine																										63	63
Total	457	25		90		15			222	5		16							212	111		9		123		109	1394

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **52**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8441 Cds	Hardwood	3117 Cds
Hardwood	339 Mbf	Hardwood	70 Mbf
Softwood	5006 Cds	Softwood	1091 Cds
Softwood	250 Mbf	Softwood	178 Mbf
Sum TotVol	14625 Cds	Sum CutVol	4704 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	311
1394			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 52

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	A6	11	62	75	aspen (upland)	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand contains a mature overstory of aspen, maple, and balsam over thick F regeneration; in most places. Harvest all species; except leave all beech. This stand will be a mix of aspen and fir after it is harvested. All species currently present within the stand are acceptable for regenerating. After the pre-review the above treatment was approved; except all hemlock and cedar are to be retained.</p> <p>Wld : There are a few hemlock present within this stand. No cutting of hemlock or cedar (if present). Concur with FFMFD.</p>										
15	M6	8		60	northern hardwood	unevenaged	thinning	2		
<p>comnts Fmd : The majority of the stand contains high quality sugar maple poles. This stand should be thinned, removing some of all species and in all size classes. This stand is being managed for high quality sawlog production. Along the edges of this stand a few cedar and hemlock will need to be marked to allow for the harvesting of larger maple tree's. Approved at pre-review.</p> <p>Wld : No more then 1 cord of cedar is to be harvested to reach maples. Concur with FFMFD.</p>										
17	A6	7	52	70	aspen (upland)	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand contains mature aspen and balsam. Harvest all species, managing for aspen. Approved at pre-review.</p> <p>Wld : Concur with FFMFD.</p>										
43	A5	6	56	46	aspen (upland)	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand contains over mature aspen, with red maple and balsam regeneration. Quite a bit of the aspen is dying out. If we do not harvest this stand soon we will lose the opportunity to regenerate the aspen. Harvest all species; except leave all of the pine. The Menominee Mix is acceptable for regeneration. Approved at pre-review.</p> <p>Wld : Concur with FFMFD.</p>										
44	M6	31	61	66	spruce-fir (uplands- including upland black spruce)	two aged	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand contains a poor quality hardwood overstory over thick F and W regen. The regen is 15' to 30' tall and needs to be released. The pine regen is struggling, with the lack of light. Harvest all species; except cut the pine on a diameter limit. Possibly cut all white pine greater than 10" and red pine greater than 12", will have to look at diamater's closer when setting up the sale. Any combination of the Menominee Mix is acceptable. After the pre-review the above treatment was approved; except no cedar or hemlock is to be cut and some yellow birch, and some large diameter pine(with low value) both red and white will also be left.</p> <p>Wld : No cutting of cedar or hemlock. Some yellow birch and large diameter pine is to be retained. WLD will assist in painting of these trees. Concur with FFMFD.</p>										
46	M6	65	61	70	spruce-fir (uplands- including upland black spruce)	mature	shelterwood-seed	1	natural regeneration	
<p>comnts Fmd : This stand has an overstory of Mr, A, and F over an understory of F2. The F regen is 5' to 20' tall. This regen should be partially released. Where there is thick F regen, 10' to 15' plus remove all overstory species. Within most of the stand though, the regen ranges from 5' to 10' tall and within these areas a basal area of 30 should be left. The 30 BA should be a mix of the current overstory species. So, harvest all species; except for the 30 BA of overstory species, cedar, and hemlock. There are also a couple of small ash pockets, within this stand. So, possibly leave all ash under 5", within the stand. This stand will be primarily managed for F, but any combination of the Menominee Mix is acceptable. Approved at pre-review.</p> <p>Wld : WLD would like to emphasize species diversification. Maintain overstory trees that are representative of what is currently in the stand, without causing conflict with the long-term objective. A nice cedar pocket along the NW side. Concur with FFMFD.</p>										
47	M6	59	74	60	northern hardwood	immature	thinning	1		
<p>comnts Fmd : This stand is need of a thinning. This stand should be managed for a mix of M, E, F, and W. The basal area should be reduced to 60 to 70 BA. This should be accomplished by cutting all A, P, and Fb, and by cutting some of all other species and in all size classes. Areas of this stand contain thick pockets of F regen and other areas have thick pockets of W regen. Any combination of the Menominee Mix is acceptable as regeneration. Above treatment was approved; except no cedar or hemlock are to be cut and some beech, white pine and yellow birch are to be left. There was also a nest found in this stand, wildlife will check to see in 2008 if the nest is active.</p> <p>Wld : No cut cedar or hemlock. Some beech, white pine, and yellow birch are to be retained. 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>										
58	S6	13	71	40	black spruce-swamp	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : This stand should be harvested. Removing all species except; cedar, hemlock, and W, R, S, and T seed trees. Some of the species within this stand are starting to fall over. A mix of S, F, T, and W regeneration is acceptable. Approved at the pre-review.</p> <p>Wld : Concur with FFMFD.</p>										

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 52

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
60	A6	52	66	60	aspen (upland)	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand was held last decade. The aspen is over mature and is dying out. The majority of the stand has thick F regen, along with some W and Mr. Harvest all species; except hemlock, cedar, red pine, and leave some white pine as a seed source. Either mark a few W to leave or cut the white pine on a diameter limit. This stand will regenerate to a mix. Any combination of the Menominee Mix is acceptable. There is a steep slope on the South side of this stand, place the sale boundary along the top edge of the slope. Do Not cut the side of the hill. Approved at pre-review.</p> <p>Wld : Concur with FMFMD.</p>										
66	Q6	7	86	43	mixed swamp conifer	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : The spruce is starting to die off. Harvest all species; except leave all W, C, H, and some S and T seed trees(primarily along the edges). An acceptable mix of regen is S, T, Fb, B, and P. Approved at pre-review.</p> <p>Wld : Concur with FMFMD.</p>										
68	M6	6	74	53	spruce-fir (uplands- including upland black spruce)	immature	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand has an overstory of red maple and a thick understory of F. The F regen is 5' to 20' tall. The regen should be released. Harvest all species; except leave all W, and mark a few spruce to leave. This stand should be managed for F, but we will get some maple stump sprouts. A mix of F and M is acceptable. Approved at pre-review; except cut no cedar or hemlock.</p> <p>Wld : No cutting of cedar or hemlock. Concur with FMFMD.</p>										
70	R6	46	66	62	white pine	two aged	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand has been managed in the past to facilitate the conversion to pine. This process is in its final stage. There is a mix of red and white pine regeneration, spread throughout the stand. The regen ranges from 6' to 25' tall. This regen needs to be released, the white pine regen looks like it has slowed down the last couple of years. So, harvest all species; except leave all cedar, hemlock, and cut the pine on a diameter limit. Possibly cut all white pine greater than 10" and all red pine greater than 12". We will have to look at the diameter's of the pine closer when the sale is prepared to determine if they will work. Above treatment was approved at the pre-review; except wildlife would like some yellow birch and large diameter pine retained throughout the stand. Wildlife tech will help mark these tree's to retain.</p> <p>Wld : Mark some white pine to retain. WLD will assist in painting these trees. Concur with FMFMD.</p>										
Total Acres.....		311								

**Proposed Treatments
With Limiting Factors**

Compartment: 52

Entry Year: 2008

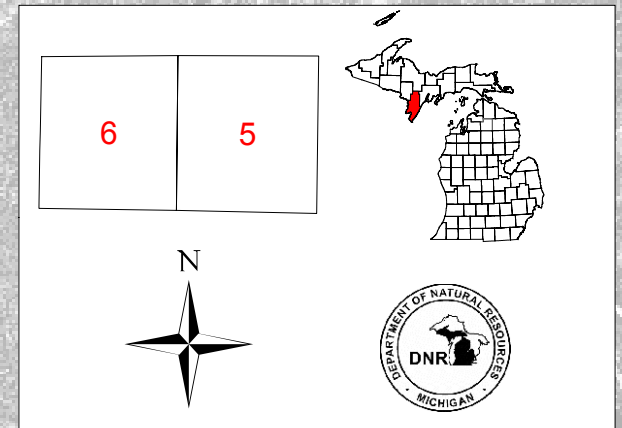
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 52
 T35N, R25W, Sec. 5, 6
 County: Menominee
 Unit: Escanaba
 YOE: 2008
 Acres: 1,394 GIS Calculated
 Stand Examiner: Dustin Salter
 Map Revised: 8/22/2006
 Map Phase: Pre-review



Legend

- Miris Corners
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Water Features
- Stand Boundary
- Biodiversity/Old growth area
- 148 - Final harvest/Natural regeneration/Other
- 248 - Seed tree/Natural regeneration/Other
- 348 - Shelterwood-seed/Natural regeneration/Other
- 400 - Thinning

Co. Rd. 358

Elwood Cr.

Westman Rd.

Elwood Creek Rd.

Elwood Cr.

