



**ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 97 ENTRY YEAR: 2005
Compartment Acreage: 1236 County: Delta

Last Revision: October 8, 2005

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

Legal Description: T43N, R22W, SEC. 21, 28, 33

Management Goals: Emphasis will be on aspen management for pulpwood production and maintenance of wildlife habitat. Northern hardwood sawtimber production will also be emphasized.

Soil and Topography: Lowland soils consist of Cathro and Tacoosh mucks. Upland soils consist of Ternary and Onaway fine sandy loams.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Flat to slightly rolling.

Unique, Natural Features (include only non-site specific and non-sensitive information): N/A

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): N/A

Special Management Designations or Considerations: N/A

Watershed and Fisheries Considerations: Rapid River and Friday Creek.

Wildlife Habitat Considerations: *Landscape Context:* This compartment is within a broad plain of loamy soils deposited by glacial activity. Drumlin ridges, trending northeast to southwest, are common in this landscape but are not too evident here. Historically ridge tops were covered with northern hardwood forests and intervening 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.

Wildlife Considerations this Decade: This compartment is divided into two distinct blocks separated by private land. Both blocks have a large acreage of aspen forest that is less than 40 years old. In fact, the majority of the aspen in this compartment is 10-30 years old and will simply be allowed to grow. Northern hardwood stands make up a considerable acreage in both blocks too. Some of these stands will be select cut this decade. Several hardwood stands in the south block will be under-planted with white pine and/or hemlock to enhance tree species diversity. Currently there is very little conifer component to these maple-basswood-ash stands. Stand 400 is a rocky forest opening covered with exotic spotted knapweed. A portion of this stand will be planted to red pine (along with the adjacent stand of European Larch) to combat the knapweed and eventually convert both stands to northern hardwoods (long-term).

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone to the south, north of Rapid River. This Compartment was previously leased for metallic exploration. Gravel pits are in the area and there may be some potential. 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: Access into this area is good via the Maki and Engineer Roads.

Survey Needs: None

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: 97

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		82	116	191	66				9										464
Cedar										24	20	52	34						130
Grass	17																		17
Local Name	4																		4
LowInd Brush	6																		6
LowInd Poplr		1	21																22
Marsh	50																		50
Mx Swmp Cnfr								21	13		39	42							115
Spruce Fir			12		4														16
Swamp Hrdwds									129	40									169
Tamarack				8															8
Upland Hdwds									8	109								84	201
Water	34																		34
Total	111	83	149	199	70			21	159	173	59	94	34					84	1236

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

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COMPARTMENT: 97

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	464																										464
C Cedar				130																							130
G Grass					17																						17
I Local Name								4																			4
L LowInd Brush									6																		6
P LowInd Poplr										22																	22
N Marsh											50																50
Q Mx Swmp Cnfr												115															115
F Spruce Fir																			16								16
E Swamp Hrdwds																				169							169
T Tamarack																8											8
M Upland Hdwds																								201			201
Z Water																									34		34
Total	464			130	17			4	6	22	50	115				8			16	169				201	34	1236	

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: **97**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8442 Cds	Hardwood	1284 Cds
Hardwood	392 Mbf	Hardwood	93 Mbf
Softwood	4544 Cds	Softwood	141 Cds
Softwood	58 Mbf	Sum CutVol	1611 Cds
Sum TotVol	13886 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	177
1236			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 97

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
14	M6	5	78	55	northern hardwood	mature	selection	1	natural regeneration	
16	M9	10	81	60	northern hardwood	immature	selection	1	natural regeneration	prescribed for fdf treatment
comnts Fmd : Stand is nearing time for treatment, a light thinning is all that will be needed.										
20	M6	3	78	55	northern hardwood	mature	selection	1	natural regeneration	
21	M9	10	81	60	northern hardwood	immature	selection	1	natural regeneration	prescribed for fdf treatment
comnts Fmd : same as stand 16, black ash drainage separates the stand.										
39	M6	2	75	55	northern hardwood	mature	shelterwood-prep	1	natural regeneration	
comnts Fmd : Heavy to fir in understory, will convert to balsam fir.										
40	M6	3	82	60	northern hardwood	mature	selection	1	natural regeneration	
41	M9	4		60	northern hardwood	unevenaged	selection	1	natural regeneration	
comnts Fmd : Big wood, nt the best quality logs. Some spots where BA is close to 100 and some spots where its lighter.										
43	M6	19		60	northern hardwood	unevenaged	selection	1	natural regeneration	
47	T6	8	21	64	red pine	immature	final harvest	1	planting	
comnts Fmd : Harvest this stand when hardwoods to the west is cut. This looks like an old farm field that was planted with European larch. Long range goal is to try and convert this area back to Northern Hardwoods. Using the Kotar manual it could be planted to red pine and allow hdws to west seed in the open areas. Silviculturalist will be consulted.										
69	M9	49	81	60	northern hardwood	immature	selection	1		prescribed for fdf treatment
comnts Fmd : SOME AREA OF GOOD REGENERATION. TIME TO CREATE SOME REGENERATION GAPS. This stand will be treated with stand 25, cmpt 96. Wildlife Div., will also be interplanting hemlock and white pine in this stand.										
71	M6	30		60	northern hardwood	unevenaged	selection	1	natural regeneration	prescribed for fdf treatment
comnts Fmd : Wildlife would like to interplant whitepine and hemlock after stand is treated.										
93	M6	1		50	northern hardwood	unevenaged	selection	1	natural regeneration	
comnts Fmd : Small patch of hardwood just west of stand 95. Treat when stand 95 is treated.										
95	A6	7	72	60	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : Mixture of aspen and balm. Aspen on higher ground, balm on lower ground.										
400	G0	14			grass	nonstocked		0	planting	
comnts Fmd : East half of the opening will be planted to red pine.										
401	G0	1		63	grass	nonstocked		0	opening maintenance	
comnts Fmd : PART OF FRIDAY FLOODING OPENING.										
402	G0	2			grass	nonstocked		0	opening maintenance	
comnts Fmd : OPENING CREATED IN 1997.										
Total Acres.....		168								

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 97

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
53	M6	20		60	northern hardwood	unevenaged	selection	1	natural regeneration	stand with fdf potential

TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)
Inadequate volume due to low stocking/small diameter/etc.

comnts Fmd : FDF QUALITY. Stand basal area ranges from 80- 100. It is borderline on weather to treat now. Could do a light thinning or leave it for 10 years. Check in 2007 and see if sale would be feasible. Wildlife division would like to interplant white pine and hemlock after stand is treated.

82	M6	6	76	55	northern hardwood	immature	selection	1	natural regeneration	
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Access is tough, surrounded be beaver floodings and low ground. If accessble from the west, treat when stand in adjacent compartment (98) is treated.

Total Acres..... 26

