ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #76 ENTRY YEAR: 2008

Compartment Acreage: 1795 County: Delta

Last Revision: August 9, 2006

Stand Examiner: Dan McNamee, FMFMD; Bill Rollo and Craig Albright, Wildlife Division

Legal Description: T37N-R24W, Sections 19, 20, 21

Management Goals: Mixed use. Timber Sale guidelines for deer wintering complexes will guide the harvest of timber in this compartment. This compartment has been actively managed in the past and will continue to be managed in much the same manner. Northern hardwoods will be maintained; Red pine will be maintained and expanded. White cedar and hemlock regeneration will be encouraged

Soil and Topography: Topography is level to slightly rolling. Soils are poorly drained sand, well drained sands, and very poorly drained extremely acid mucks and peats.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land borders this compartment on all sides. Eighty acres of private land is located in the S1/2NW1/4 Section 20, and 30 acres is located in the NWSE Section 19.

Unique, Natural Features: None known

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: Timber sales located along the Forest Islands ORV Trail will be done in such a way as to minimize impact and keep aesthetics in mind when preparing the sales.

Watershed and Fisheries Considerations: See Fisheries Biologist's comments

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: Two-thirds of this compartment is comprised of lowland cover types: cedar/swamp conifer (46% of acreage), swamp hardwoods and lowland poplar (14%), black spruce and tamarack (7%). Cedar has not regenerated reliably in past years and is of modest age (only about 110 years old). For these reasons, it will be maintained without treatment to benefit wildlife that utilize closed-canopy conifer forest. This habitat is particularly critical for deer, bobcats, and other wildlife during the winter months. The only forest stands that could benefit from treatment at this time are several northern hardwood stands on the west side of the compartment. Maintenance of vegetative diversity (such as beech, yellow birch, and hemlock) is recommended for these stands to enhance wildlife habitat.

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. The Trenton is quarried for stone west of Escanaba. This area has not been leased previously for metallic exploration. A gravel pit is located in Section 29 and potential appears to be good on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: The 7 Mile Marsh Road, Limpert Road, and Bark River Truck Trail allow for easy access into this compartment.

Survey Needs: None

Recreational Facilities and Opportunities: Hunting, trapping, snowmobiling and ORV use are common in this compartment.

Fire Protection: With good access, fire protection should not be a problem in this compartment.

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: **76**

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		36	8	40	28														112
Black Spruce									87										87
Cedar		38								200		247	134	120					739
Grass	9																		9
Hemlock										1	13	50	25						89
Lowlnd Brush	9																		9
Lowlnd Poplr		73		2	53	2													130
Mx Swmp Cnfr					3			5					1	59					68
Non Stocked	1																		1
Red Pine		34		6	7					17	5	46	3						118
Spruce Fir		8	3		16														27
Swamp Hrdwds					3			15	98	2		12							130
Tamarack									34										34
Upland Brush		2																	2
Upland Hdwds			1		2				27	3								84	117
Water	11																		11
White Pine			22		13					18	16	10	33						112
Total	30	191	34	48	125	2		20	246	241	34	365	196	179				84	1795

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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: **76**

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	112																										112
S Black Spruce		87																									87
C Cedar				739																							739
G Grass					9																						9
H Hemlock						89																					89
L Lowlnd Brush									9																		9
P Lowlnd Poplr										130																	130
Q Mx Swmp Cnfr												68															68
X Non Stocked													1														1
R Red Pine																118											118
F Spruce Fir																			27								27
E Swamp Hrdwds																				130							130
T Tamarack																					34						34
U Upland Brush																			2								2
M Upland Hdwds																								117			117
Z Water																									11		11
W White Pine																										112	112
Total	112	87		739	9	89			9	130		68	1			118			29	130	34			117	11	112	1795

ESCANABA RIVER STATE FOREST ESCANABA FOREST MGT UNIT DELTA COUNTY COMPARTMENT: **76**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL VOLUME		CUT VOLUME	
Hardwood	9207 Cds	Hardwood	556 Cds
Hardwood	205 Mbf	Hardwood	13 Mbf
Softwood	18097 Cds	Softwood	113 Cds
Softwood	940 Mbf	Sum CutVol	695 Cds
Sum TotVol	29594 Cds		

Total Cmpt Acres

1795

Acres Proposed For Cut..... 65

ESCANABA FOREST MGT UNIT | **Proposed Treatments With NO Limiting Factors** | **Compartment: 76** | **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
109	**M6**	3		55	northern hardwood	unevenaged	thinning	1		

comnts Fmd **:** Retain some of the yellow birch and beech component within this stand, leave hemlock.

Wld **:** Maintain tree species diversification by retaining some yellow birch. Please consult WLD if planning on using adjacent G-types for a timber landing. WLD may require that if an opening is used, slash will be removed. To prevent invasive exotics from being introduced, WLD may require that FMFMD replant the G-type used as a timber landing to a perennial grass mix.

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
110	**M6**	3	84	55	northern hardwood	immature	thinning	1		

comnts Fmd **:** remove mature timber, white birch and fir are declining. Do not cut cedar or hemlock. Retain some of the yellow birch and beech component.

Wld **:** Maintain tree species diversification by retaining some yellow birch. Please consult WLD if planning on using adjacent G-types for a timber landing. WLD may require that if an opening is used, slash will be removed. To prevent invasive exotics from being introduced, WLD may require that FMFMD replant the G-type used as a timber landing to a perennial grass mix.

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
113	**M6**	22	76	50	northern hardwood	mature	thinning	1		

comnts Fmd **:** Mixture of just about everything. Ground is low and wet in places and high and dry in others. Remove the mature aspen and fir. Remove some red maple and yellow birch either by marking or designating a diameter whichever is best for the stand. Retain some yellow birch & beech as component in the stand, leave hemlock.

Wld **:** Maintain tree species diversification by retaining some yellow birch. Please consult WLD if planning on using adjacent G-types for a timber landing. WLD may require that if an opening is used, slash will be removed. To prevent invasive exotics from being introduced, WLD may require that FMFMD replant the G-type used as a timber landing to a perennial grass mix.

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
114	**M6**	37		55	northern hardwood	unevenaged	thinning	1		

comnts Fmd **:** FDF POT. Retain some of the yellow birch and beech component, leave hemlock.

Wld **:** Maintain tree species diversification by retaining some yellow birch. Please consult WLD if planning on using adjacent G-types for a timber landing. WLD may require that if an opening is used, slash will be removed. To prevent invasive exotics from being introduced, WLD may require that FMFMD replant the G-type used as a timber landing to a perennial grass mix.

Total Acres..... **65**

Proposed Treatments With Limiting Factors

Compartment: 76 **Entry Year: 2008**

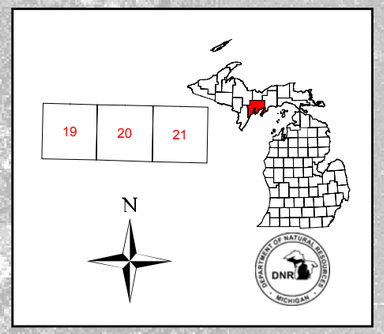
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 76
T37N, 24W, Sec. 19, 20, 21
County: Delta
Unit: Escanaba
YOE: 2008
Acres: 1,795 GIS Calculated
Stand Examiner: Dan McNamee
Map Revised: 8/22/2006
Map Phase: Pre-review



Legend
- Miris Corners
- Gravel Roads
- Poor Dirt Roads
- Water Features
- Stand Boundary
- Biodiversity/Old growth area
- 400 - Thinning

1 0.5 0 1 Miles