



ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT 91 ENTRY YEAR: 2008
Compartment Acreage: 1897 County Delta

Last Revision: August 6, 2006

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

Legal Description: T43N-R22W, Sections 5, 8, and 17

Management Goals:

Soil and Topography: Topography ranges from nearly level to slight and moderate slopes. Soils are poorly drained nonacid organic soils, poorly drained loamy soils, well drained loams, and poorly drained loams.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment 91 is centrally located in a larger contiguous state-owned block of land. Primary uses are for forest and wildlife production and outdoor recreation in the form of hunting and trapping.

Unique, Natural Features: The Rapid River and Deadhorse Creek join together as they flow through this compartment.

Archeological, Historical, and Cultural Features: None

Special Management Designations or Considerations: Regenerating over-mature Aspen stands, maintenance and improvement of the northern hardwoods, spruce–fir and other softwood types. Maintenance of wildlife habitat in the form of winter cover, forage producing trees, and grass openings.

Watershed and Fisheries Considerations: (See Fisheries Biologist's comments).

Wildlife Habitat Considerations: *Ecological Context:* This compartment is within a broad plain of loamy ground moraine. Historically, 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 aspen forest increased greatly and hemlock and white pine declined due to early-day logging practices.

Recommendations: This compartment has a large acreage of northern hardwood forest which shows variable regeneration density in the understory. Some stands are mediocre while others show very good seedling and sapling development. Several of these stands will undergo thinnings or selection cuts this decade. Maintenance of uncommon tree species (such as yellow birch, black cherry, and upland cedar) is recommended for enhancement of wildlife habitat. Moreover, maintenance of cedar in aspen and balsam poplar cuts has been recommended to provide winter cover for deer, bobcats, fisher, marten, and other species that are found in this landscape. The Rapid River and Deadhorse Creek flow through the southern portion of the compartment and join together there. The triangle of land between the 2 water courses is designated as a Special Conservation Area where a mature forest condition is desired and natural processes will be allowed to operate. Several grass openings in this compartment were constructed 10-15 years ago for wildlife habitat. Although herbaceous plantings and mowing are not a high priority, some of these openings will remain prescribed for treatment as potential projects for wildlife organizations to undertake.

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, near Rapid River. This Compartment was not previously leased for metallic exploration, but nearby areas were leased in the past. A gravel pit is located in Section 6 and there is potential. No economic oil and gas production has been found in the UP.

Vehicle Access: The Engineer Road and the North and South Deadhorse Roads provide access into this compartment. At this time the bridge that crosses the Deadhore Creek via the south Deadhorse Road is closed to vehicular traffic because the bridge is unsafe. Although it is closed to conventional 2 wheel vehicles, 4 wheeler traffic and foot traffic is allowed.

Survey Needs: None

Recreational Facilities and Opportunities: Hunting and trapping. ORV and snowmobile use in this area is moderate and largely a result of hunter and trapper use.

Fire Protection: The above mentioned roads provide access to this area in the case a fire should ever start in this area. The type of timber located in this area keeps the potential of a large fire low to moderate.

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: 91

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		108	223	71	18	75	74	7	1	5									582
Black Spruce									4										4
Cedar		39				7				71	235	58	52						462
Grass	28																		28
LowInd Brush	22																		22
LowInd Poplr		30	7			61													98
Spruce Fir		18	37		1	3													59
Swamp Hrdwds						61			3	108	15	65						34	286
Upland Hdwds					2				6	210								102	320
Water	36																		36
Total	86	195	267	71	21	207	74	7	14	394	250	123	52					136	1897

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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: 91

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	582																										582
S Black Spruce		4																									4
C Cedar				462																							462
G Grass					28																						28
L LowInd Brush									22																		22
P LowInd Poplr										98																	98
F Spruce Fir																			59								59
E Swamp Hrdwds																				286							286
M Upland Hdwds																								320			320
Z Water																									36		36
Total	582	4		462	28				22	98									59	286				320	36		1897

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: 91

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	14993 Cds	Hardwood	3738 Cds
Hardwood	213 Mbf	Hardwood	105 Mbf
Softwood	10523 Cds	Softwood	701 Cds
Softwood	38 Mbf	Sum CutVol	4649 Cds
Sum TotVol	26018 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	328
1897			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 91

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
4	M6	8	81	55	northern hardwood	immature	thinning	1		
<p>comnts Fmd : Stand was treated in 1992. There is good maple regeneration is 10-15' tall. Not the best quality. Create some canopy gaps to release established regen. Sale will have to be put up with the area to the north. Contact Gwinn, put up as additional timber when stands 56 & 71 of compartment 92 is being treated.</p> <p>Wld : Will be added to Gwinn's timber sale in 2007. Concur with FMFMD.</p>										
7	M6	8	81	50	northern hardwood	immature	shelterwood-prep	1		
<p>comnts Fmd : Most of the balsam fir is dead. Leave good quality R.maple and remove the rest. Mark good R. maple crop trees. Incorporate this with a Gwinn sale to the north (stand 56, Cmpnt 92)</p> <p>Wld : Will be added to Gwinn's timber sale in 2007. Concur with FMFMD.</p>										
15	M6	1	81	60	northern hardwood	immature	thinning	2		
<p>comnts Fmd : To small to treat alone. Treat when stand to the west in compartment 90 is treated.</p> <p>Wld : Concur with FMFMD. Leave any upland cedar if found.</p>										
26	M6	1	81	60	northern hardwood	immature	selection	1		
<p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD. Please consult with WLD if stand 401 is considered for a timber landing. May require removal of slash and replanting the portion that will become the timber landing to a perennial grass mix by FMFMD.</p>										
27	M6	26	81	60	northern hardwood	immature	selection	1		prescribed for fdf treatment
<p>comnts Fmd : This stand contains a gravel pit. Pit location is on the south side of the Deadhorse road.</p> <p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD.</p>										
29	M6	1	81	55	northern hardwood	immature	selection	1		
<p>comnts Fmd : small astand of hardwood, balsam fir in understory.</p> <p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD.</p>										
30	M6	7	81	60	northern hardwood	immature	selection	1		
<p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD.</p>										
31	M6	5	81	55	northern hardwood	immature	thinning	1		
<p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD.</p>										
36	M6	7	81	60	northern hardwood	immature	thinning	1		
<p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD. Please consult with WLD before using adjacent G-types as timber landings. WLD may require that slash be removed and replanting of a perennial mix by FMFMD. Some of these openings are scheduled for herbaceous planting by WLD.</p>										
42	M6	80	79	60	northern hardwood	immature	selection	1		prescribed for fdf treatment
<p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD. Please consult with WLD before using adjacent G-types as timber landings. WLD may require that slash be removed and replanting of a perennial mix by FMFMD. Some of these openings are scheduled for herbaceous planting by WLD.</p>										
45	A6	35	49	60	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : Should have been treated the last time around. Lost a lot of balsam. West side of stand contains more balm, East side more aspen.</p> <p>Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD. Please consult with WLD before using adjacent G-types as timber landings. WLD may require that slash be removed and replanting of a perennial mix by FMFMD. Some of these openings are scheduled for herbaceous planting by WLD.</p>										
47	M6	10	81	60	northern hardwood	immature	selection	1		
<p>comnts Fmd : THINNED IN 1992. NEEDS TO BE THINNED AGAIN. Create some larger (approx 60') canopy gaps for black cherry regeneration. Leave upland cedar.</p> <p>Wld : Create some canopy gaps (approx. 60ft) for black cherry regeneration. Leave any upland cedar. Concur with FMFMD. Please consult with WLD before using adjacent G-types as timber landings. WLD may require that slash be removed and replanting of a perennial mix by FMFMD. Some of these openings are scheduled for herbaceous planting by WLD.</p>										

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 91

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
48	M6	11	79	55	northern hardwood	mature	thinning	1		
Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD. Please consult with WLD before using adjacent G-types as timber landings. WLD may require that slash be removed and replanting of a perennial mix by FMFMD. Some of these openings are scheduled for herbaceous planting by WLD.										
57	M6	38		60	northern hardwood	unevenaged	selection	1		
comnts Fmd : Mix hardwood is mixture of basswood and red maple. Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD.										
77	A6	3	61	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : Wld : SCA - POG - Rapid River and Deadhorse Creek confluence. This stand should be changed to stand condition 8.										
78	A6	4	61	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : Wld : SCA - POG - Rapid River and Deadhorse Creek confluence. This stand should be changed to stand condition 8.										
96	A6	1	76	60	aspen (upland)	mature	final harvest	1		
Wld : Concur with FMFMD.										
103	M6	5	79	55	northern hardwood	immature	thinning	1		
Wld : Leave white cedar if found within stand boundaries. Concur with FMFMD.										
105	A6	3	51	55	aspen (upland)	mature	removal	1		
comnts Fmd : Heavy to aspen in the North, as you move to the south, it fades into more balsam and hardwood. This was left to keep aspen from encroaching into the opening. Treat when hardwood stand to south is treated. Remove mature aspen and balsam fir, leave good quality hardwood. Wld : Concur with FMFMD.										
107	A6	17	47	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave some spruce for seed source. Wld : Leave a component of spruce for a seed source. Concur with FMFMD.										
108	M6	2	79	50	northern hardwood	immature	thinning	1		
Wld : Leave a component of spruce for a seed source. Concur with FMFMD.										
109	P6	19	45	50	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1		
comnts Fmd : Remove shortlived spp. Stay out of heavy cedar There is enough room to move around. Put lines around heavy cedar areas and stay out of those areas. Cut everything else which is not lined. Leave some spruce for seed source. Wld : Ratain cedar patches, cut the rest. Leave some spruce seed trees. Concur with FMFMD. Please consult with WLD before using adjacent G-types as timber landings. WLD may require that slash be removed and replanting of a perennial mix by FMFMD. Some of these openings are scheduled for herbaceous planting by WLD.										
116	A6	36	48	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : Mature aspen, treat this time around. Wld : Please consult with WLD before using adjacent G-types as timber landings. WLD may require that slash be removed and replanting of a perennial mix by FMFMD. Some of these openings are scheduled for herbaceous planting by WLD.										
401	G0	3			grass	nonstocked		0	opening maintenance	
comnts Fmd : OPENING CONSTRUCTED IN JULY 1993. Contact wildlife if using opening for landing areas. Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.										

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 91

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
403	G0	2			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Contact wildlife if opening will be used for landing											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
404	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Cnntact wildlife if using for landing.											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
405	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Contact wildlife Div if using for landing.											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
408	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Coantact Wildlife Div if using for landing.											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
409	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Contact Wildlife Div if using for opening.											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
410	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Contact Wildlife Div. If using for landing.											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
411	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Contact Wildlife Div, if using for landing.											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
414	G0	3			grass	nonstocked		0	opening maintenance		
comnts Fmd : OPENING CONSTRUCTED IN 1990. Contact Wildlife Div if using for landing.											
Wld : This opening was once managed. Currently has cool summer grasses. This opening will be planted to a wildlife mix if personnel and funding is available.											
Total Acres.....		342									

**Proposed Treatments
With Limiting Factors**

Compartment: 91

Entry Year: 2008

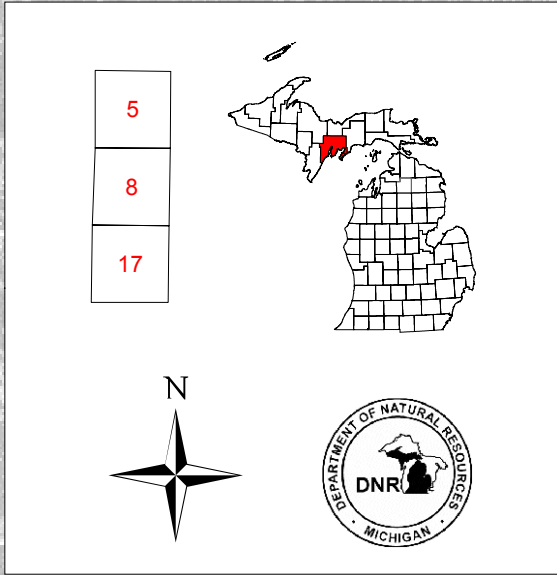
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 91
 T43N, R22W, Sec. 5, 8, 17
 County: Delta
 Unit: Escanaba
 YOE: 2008
 Acres: 1,897 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
- 028 - Opening maintenance/Other
- 100 - Final harvest
- 400 - Thinning
- 500 - Removal
- 700 - Shelterwood-prep
- 800 - Selection

