



**ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 104 ENTRY YEAR: 2007
Compartment Acreage: 606 County: Delta

Last Revision: October 9, 2005

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

Legal Description: T42N, R22W, SEC. 25 & 36

Management Goals: Emphasis will be on aspen management for pulpwood production. Spruce – fir types and pine types will also be managed in this treatment period.

Soil and Topography: Major soil series within this compartment are: Rousseau and Trenary on the uplands, with Tawas, Dawson and Greenwood peats on the lowland. Terrain is varied with large low wet areas divided by sandy ridges.

Ownership Patterns, Development, and Land Use in and Around the Compartment: USFS adjoins this compartment on the east side. Private ownership to North, south and west.

Unique, Natural Features (include only non-site specific and non-sensitive information): USFS Rapid River Ski Trail is located just to the east of the compartment with some of the trail located within this compartment.

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

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Surface sediments consist of medium-textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone to the south, north of Rapid River and may overlap Precambrian aged rocks which may have metallic and nonmetallic mineral potential. This Compartment has not been previously leased for metallic exploration. Gravel pits are located in Section 23 and there appears to be 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

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 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 a mixture of lowland bogs and spruce punctuated by pronounced ridge systems of aspen, red pine, and spruce. The hilly terrain of this area is probably why the Forest Service ski trail was located here. During the last review 10 years ago, 113 acres of mature aspen was purposely deferred from harvest to improve the age class diversity. This year of entry, many of those “held” stands will be harvested and regenerated to the benefit of early successional wildlife species. Vegetative diversity will be addressed in these stands by retaining some red pine, cedar, and sub-merchantable spruce and fir. During the last review, the bogs and spruce stands in this compartment were designated as potential old growth. These designation will be removed now because these stands are scattered in the compartment and will be protected without special designation because they are mainly non-stocked stands.

Mineral Resource and Development Concerns and/or Restrictions:

Vehicle Access: Most of this area has been gated to the North and east by the USFS to protect the ski trail.

Survey Needs: Some corners may be needed along the west and north sides of both Sections for timber sale work.

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: 104

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	167																										167
S Black Spruce		147																									147
V Bog or Marsh			25																								25
C Cedar				50																							50
J Jack Pine							24																				24
L LowInd Brush									43																		43
P LowInd Poplr										26																	26
Q Mx Swmp Cnfr												9															9
R Red Pine																25											25
F Spruce Fir																			23								23
T Tamarack																						6					6
D Treed Bog																							61				61
Total	167	147	25	50			24		43	26		9			25			23			6	61				606	

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: **104**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3299 Cds	Hardwood	3056 Cds
Softwood	4349 Cds	Softwood	997 Cds
Softwood	175 Mbf	Softwood	90 Mbf
Sum TotVol	7998 Cds	Sum CutVol	4233 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	228
606			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 104 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
30	J5	20	55	55	jack pine	immature	final harvest	1	natural regeneration	
comnts Fmd : South end of stand has a 50/50 mix of aspen /j.pine. Treat this time around. Will have to check after harvest to see if slash will have to be reduced by prescribe burn.										
32	A6	41	64	50	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : USFS ski trail is located in this stand. Will have to work with the Forest Service when treating this stand. Leave smaller pine in this area and mark or designate some of the bigger pine for seed trees. Small patch of J. pine located in SE part of stand.										
33	A6	28	65	50	aspen (upland)	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : LOWLAND ASPEN; WINTER CUT OR DRY SUMMER HARVEST. REMOVE MATURE TIMBER ONLY.										
37	J6	4	55	50	jack pine	mature	final harvest	1	planting	
39	P6	14	69	50	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2	natural regeneration	
comnts Fmd : Treat this time around. Access could be a limiting factor. Will have to get access from landowner to the north. Some cedar will have to be cut so that contractor can treat stand. Lower ground. Leave cedar clumps (.25 -.5 acre) scattered throughout the sale.										
47	F6	5	73	50	spruce-fir (uplands-including upland black spruce)	immature	shelterwood-seed	2	natural regeneration	
comnts Fmd : UPLAND BLACK SPRUCE MIXED WITH SOME R.PINE. REMOVE THE MATURE TIMBER AND LEAVE SOME OF THE R.PINE FOR SEED.										
50	S5	3	70	50	black spruce-swamp	mature	seed tree	1	natural regeneration	
comnts Fmd : Small diameter. Could be cut now or hold till next time around.										
51	R9	11	84	55	red pine	mature	shelterwood-seed	1	natural regeneration	
54	S4	10	77	40	black spruce-swamp	mature	seed tree	1	natural regeneration	
comnts Fmd : Timber is declining, harvest and leave seed source.										
55	A6	11	74	55	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : Maintain the pine in this stand.										
57	R9	5	98	55	red pine	immature	thinning	1		
comnts Fmd : Harvest overmature Hdwds, spruce & fir, also remove some pine.										
59	A6	19	74	55	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : STAND CONTAINS MINOR PINE IN-CLUSIONS. MAINTAIN SOME OF THE PINE AND REMOVE THE DECLINING PINE. SMALL PIECE IN SOUTHWEST CORNER OF STAND CONTAINS ABOUT .5 ASRE OF F6 STAND.										
60	F6	4	72	50	spruce-fir (uplands-including upland black spruce)	immature	shelterwood-seed	1	natural regeneration	
comnts Fmd : UPLAND BLACK SPRUCE AND PINE. EDGE OF RIDGE IS MORE SPRUCE THAN PINE.										
61	F6	6	71	50	spruce-fir (uplands-including upland black spruce)	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : UPLAND & LOWLAND TYPE; S IN-CLUSIONS.										
62	P6	8	73	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1	natural regeneration	
comnts Fmd : LOWLAND ASPEN & WHITE BIRCH. TREAT THIS TIME AROUND. LOW GROUND HARVEST IN DRY SUMMER OR WINTER.										

ESCANABA FOREST MGT UNIT

Proposed Treatments
With NO Limiting Factors

Compartment: 104 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
63	S6	5	71	50	black spruce-swamp	mature	seed tree	1	natural regeneration	

comnts Fmd : UPLAND BLACK SPRUCE WITH SOME LOWLAND INCLUSIONS.

Total Acres..... 194

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 104 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	A5	9	65	50	aspen (upland)	mature	shelterwood-seed	3	natural regeneration	

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle
Too wet

comnts Fmd : Tough access, aspen is poor quality. Schedule for harvest with limiting factor due to access problems.

3	S6	4	72	40	black spruce-swamp	mature	seed tree	3	natural regeneration	
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle
Too wet

comnts Fmd : Upland spruce-fir type. Spruce is black spruce, small diameter and short. Red pine and Jack pine make up the mix conifer. Hard to get to, access will be a problem.

5	A5	7	65	50	aspen (upland)	mature	final harvest	3	natural regeneration	
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle
Too wet

comnts Fmd : ASPEN IS POOR QUALITY BUT COULD BE CUT WITH ST2 IF ACCESS FOUND .

23	A6	6	65	55	aspen (upland)	mature	final harvest	2	natural regeneration	
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Aspen is mature, access could be a problem.

25	P6	4	65	50	balsam poplar & swamp aspen and swamp white birch	mature	shelterwood-seed	2	natural regeneration	
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Lower ground than stand 24. Mix of timber. Could be a "A6", but with lowground called it a "P". Remove mature A,Wb, and some Fb&Fs. Stand should come back to the same spp.

45	F6	4	73	55	spruce-fir (uplands- including upland black spruce)	mature	shelterwood-seed	2	natural regeneration	
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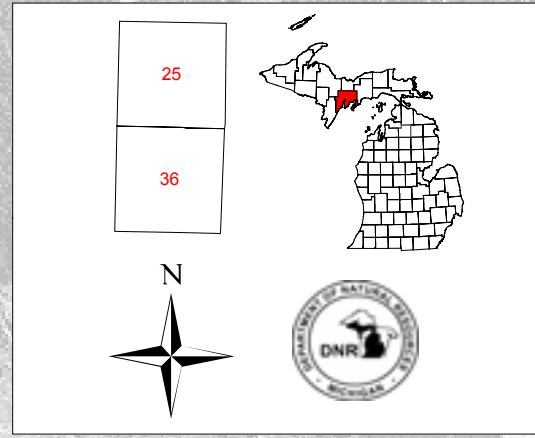
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : ALMOST A PINE SAWLOG TYPE. TREAT THIS TIME AROUND. REMOVE ALL A,WB, FSB, FB, RM, ALSO THIN OUT PINE WHERE THEY ARE HEAVY IN PLACES. ACCESS COULD BE A PROBLEM.

Total Acres..... 34

Field Map

Compartment 104
 T42N, R22W, Sec. 25, 36
 County: Delta
 Unit: Escanaba
 YOE: 2007
 Acres: 606 GIS Calculated
 Stand Examiner: Dan McNamee
 Map Revised: 10/14/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- Gravel Roads
- Poor dirt roads
- Trails
- Gates
- Berms
- Ski Trails
- Stand boundary
- 115 - Final Harvest/Planting/Mechanical,other
- 145 - Final Harvest/Natural Regeneration/Mechanical,other
- 148 - Final Harvest/Natural Regeneration/Other
- 248 - Seed Tree/Natural Regeneration/Other
- 348 - Shelterwood-seed/Natural Regeneration/Other
- 400 - Thinning

