



ESCANABA FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT: 85 **ENTRY YEAR:** 2007
Compartment Acreage: 1778 **County:** Delta

Last Revision: October 8, 2005

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

Legal Description: T41N, R24W Sections 3, 4, 9, 10, & 16

Management Goals: Most of the available aspen will be treated in this ten year period. Approximately 30 acres of spruce-fir and 20 acres of northern hardwood will also be treated in this ten year period. Current acreage in red pine and white pine types will be maintained and white pine will be expanded where possible.

Soil and Topography: Major soil series found in this compartment include: Lupton, Cathro, Tawas, Emmet, Longrie, Onaway, Summerville, Tacoosh and Angelica.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private to the south, corporate lands to the east, State to the north and west.

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:

Watershed and Fisheries Considerations: Hunter's Brook is located in the Northeast corner of the compartment.

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 so evident in this compartment. Historically, the ridge tops were covered with northern hardwood forests and intervening swamps contained 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. The north half is largely cedar swamp with scattered, aspen-dominated uplands. Several small aspen harvests and hardwood thinnings are proposed this decade. Forest stands adjacent to Hunter's Brook have been designated a "special conservation area" to protect the riparian corridor and enhance wildlife habitat (allow development of cavity trees, snags, and woody debris on the forest floor).

The most prominent feature in the south half of the compartment is a large tamarack/treed bog complex that is nearly a mile in length and a half mile wide on both sides of County Road 426. This area will remain in "special conservation area" status, as was the case last decade. Several small "islands" of aspen and fir in the

middle of this wet complex may attain an old-age status and provide benefits to wildlife that utilize over-mature forest stands. Several moderate-sized aspen stands were deferred from harvest last decade to improve the age class diversity and allow associated species (fir and spruce) to develop within them. These stands will be harvested and regenerated this decade.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of medium-textured till and medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Group underlies the glacial drift. The Black River is used for dolomite/stone and may overlap Precambrian aged rocks which may have metallic and nonmetallic mineral potential. This area has not been previously leased for metallic exploration. A gravel pit is located in Section 15, but potential appears to be limited. 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: Most of this area is open to foot access with vehicle access being limited.

Survey Needs: Some survey may be needed to establish private property boundaries for timbersale work.

Recreational Facilities and Opportunities: Hunting, trapping and fishing.

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**

10/12/2005 3:30:48 PM

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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: 85

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen		25	244	48	35			83	8	24									467
Black Spruce					17														17
Cedar			11					12	30	215	113	31							412
Grass	34																		34
Hemlock										3									3
Local Name	12																		12
LowInd Brush	63		10					3			7								83
Marsh	8																		8
Mx Swmp Cnfr			7						63		82								152
Spruce Fir			50	38	33		1	2				3							127
Swamp Hrdwds								6	9										15
Tamarack		23	60			139		74	86	10									392
Upland Brush			11																11
Upland Hdwds										7								31	38
Water	7																		7
Total	124	48	393	86	85	139	1	180	196	259	202	34						31	1778

10/12/2005 3:30:53 PM

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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: 85

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	467																										467
S Black Spruce		17																									17
C Cedar				412																							412
G Grass					34																						34
H Hemlock						3																					3
I Local Name								12																			12
L LowInd Brush									83																		83
N Marsh											8																8
Q Mx Swmp Cnfr												152															152
F Spruce Fir																			127								127
E Swamp Hrdwds																				15							15
T Tamarack																						392					392
U Upland Brush																								11			11
M Upland Hdwds																									38		38
Z Water																									7		7
Total	467	17		412	34	3		12	83		8	152							127	15	392		11	38	7		1778

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

DELTA COUNTY

COMPARTMENT: **85**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL VOLUME		CUT VOLUME	
Hardwood	5027 Cds	Hardwood	2149 Cds
Hardwood	41 Mbf	Softwood	801 Cds
Softwood	11564 Cds	Sum CutVol	2950 Cds
Softwood	72 Mbf		
Sum TotVol	16817 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	155
1778			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 85

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
17	A6	14	59	60	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Nice aspen, lots of cedar in understory. Will have to use cedar spec to treat this stand. NW corner of stand is real heavy to cedar and is probably a C6 but is small area and didn't break it out. Stay out of heavy cedar areas.											
19	M6	7		60	northern hardwood	unevenaged	thinning	1			
comnts Fmd : Nice stand of hardwood. Treat when stand to the north and south (both aspen) are treated. Thin to improve the quality of stand.											
42	A6	6	68	60	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Continuation of stand (1) in compartment 84. Treat when stand (1) is treated. Compartment 84 is 2006 YOE.											
44	M6	13		55	northern hardwood	unevenaged	thinning	1			
comnts Fmd : Treat when stand in adjacent compartment is treated. Adjacent compartment is compartment 84 and is a 2006 YOE.											
88	A6	22	65	50	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Aspen is really declining. Balsam is also declining. Treat this time around. Will probably have to lump with stand 111 and 119 to make it a worthwhile sale.											
95	F6	2	65	50	spruce-fir (uplands-including upland black spruce)	mature	shelterwood-seed	1	natural regeneration		
comnts Fmd : ROAD BUFFER. Could remove the mature balsam, aspen, white birch and mark some pine. Combine with other stands in area to make it worthwhile for contractor.											
97	F6	29	35	60	spruce-fir (uplands-including upland black spruce)	mature	final harvest	6	natural regeneration		
comnts Fmd : Currently under contract, sale# 03-02-01.											
111	A6	14	84	55	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Balsam is declining or dead. Cut this time around.											
119	A6	16	66	55	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Nice ridge of timber, but there has been a decline in the A, Wb, Fb. This stand should have been treated last time around, but was held.											
Total Acres.....		123									

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 85

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
50	A6	6	80	50	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage										
51	A6	4	80	55	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage										
comnts Fmd : Treat when Mead (New Page) treats the timber to the east. See if stand 50 can also be treated.										
63	A6	11	65	55	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access Too wet										
comnts Fmd : Aspen is ready to be cut. Access could be a problem. Will have to obtain permission from landowner to the south.										
65	A5	4	65	55	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access Too wet										
comnts Fmd : Small Island of timber, lost most of the balsam in this stand. Access is a problem. Will have to get permission from landowner to the south to be able to set up sale or talk to Mead (New Page) if they harvest adjacent timber to the east.										
76	A5	2	65	55	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage										
comnts Fmd : Most of the balsam fir is declining or dead. Aspen is in o.k. condition. Area is small, could put up on a small negotiated sale when someone is in the area.										
78	A5	5	65	55	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage										
comnts Fmd : Patchy timber.										
Total Acres.....		32								

