



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 108 ENTRY YEAR: 2007

Compartment Acreage: 884 County: Menominee

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

Legal Description: T36N R26W Sections 13, 14, 15, 22, 23, & 24

Management Goals: This compartment primarily contains lowland covertypes with some upland hardwood and aspen ridges. The lowland covertypes consist of cedar, tamarack, spruce, lowland hardwoods, and lowland brush. This decade we will be harvesting a sugar maple stand. We will be removing the majority of the stems lowering the BA to 40. This stand will be managed as a maple savanna. This stand has been pastured before, so it would be hard to establish maple regeneration. If access is granted to two other stands we will also be treating a tamarack and an aspen stand. The tamarack stand would be cut, using a seed tree cut. We would leave clumps of tamarack and cedar scattered throughout the stand. The aspen stand would be treated with a final harvest, managing it for aspen.

Soil and Topography: Some of the soil map units within this compartment are: Lupton-Cathro association and Onaway Fine Sandy Loam. The soils vary greatly throughout the compartment. In the lowland covertypes it is primarily black muck over sandy loam, which is poorly drained and nearly level. And on the higher sites there is mainly fine sandy loam over gravelly fine sandy loam. These sites are well drained and have gently rolling hills with some steeper slopes.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is separated from all other state land, by over a mile. There is a large block of state land to the east of this compartment along the Lake Michigan shoreline. The private land within this compartments boundaries and outside of the boundaries is primarily owned by non-industrial private landowners. There are a number of different family farms located around the perimeter of the compartment. The only developments around the compartment are private dwellings and out buildings.

Unique, Natural Features (include only non-site specific and non-sensitive information): None known.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None Known.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: Dry creek flows through the east half of the compartment. Big Brook's headwaters start within the western portion of this 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 throughout. Historically the 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 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: The most notable feature in this compartment is the old “Berg Farm” located in the central portion. After the State acquired this farm in 1998, the old farm buildings were removed and the large open fields were prescribed burned to stimulate native vegetation. A wetland mitigation project was conducted with the Menominee County Road Commission to establish a series of shallow water pools between two of the elevated field ridges. This project was only partially successful, as the first of three pools held water and developed into a cattail marsh, but the two pools down grade did not. Attempts were made by Wildlife staff to get the county road leading into the farm site abandoned by the county so it could be blocked, thus establishing a walk-in recreational site. Those efforts encountered problems and were not carried through to completion. In recent years, a large cabin has been built on private land directly overlooking the wetland and open fields. This development has detracted both aesthetically and functionally from the quality of the area as wildlife habitat and recreational property. Interest in management of this property has waned.

During this compartment review, we have decided to renew efforts at management of the Berg Farm parcel. FMFMD staff will again attempt to have the road abandoned and blocked. FMFMD will re-burn the open fields that were treated last decade, and will expand burning to some marshy areas and to the hillside where a “maple savanna” will be created. Attempts will be made to screen with trees the open lands and wetland from the large private camp. All potential old growth that was designated 10 years ago was removed from that designation this year because these scattered stands were largely lowland cover types that did not provide old growth benefits. If management actions are successful, this compartment will provide habitat for wildlife species that utilize large openings and wet meadows.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till with drumlins. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Limestone underlies the glacial drift. The Black River is quarried for stone in the UP and may overlap Precambrian aged rocks which may have metallic and nonmetallic mineral potential. This Compartment has not been previously leased for metallic exploration. A gravel pit is located in Section 27 and there appears to be potential on the upland drumlins. 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: Vehicle access is very limited into this area. The H – 2 road which is a county road, is the only access available for the public without getting permission from surrounding private landowners. There are some two track roads that go through private land into state land, but these are limited. The high percentage of lowland cover types also limits the number of roads within the compartment.

Survey Needs: Seven corners will need to be set.

Recreational Facilities and Opportunities: There are no developed recreational facilities within the compartment. The compartment is used for hunting, camping, and orving. Opportunities are limited because of the limited access.

Fire Protection: Most of the compartment poses little to no threat of fire; except for the open grasslands in the center of the compartment. These grasslands are former farm fields. There is a house immediately adjacent to these grasslands on private land.

Additional Compartment Information: 160 acres of this compartment was acquired in 1998 by the state. This parcel of land is known as the Berg Farm. This parcel is in the Northeast quarter of the section. Some

of the old farm fields had shallow-water wetlands created by the Menominee County Road Commission. All of the old structures were also removed.

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

- 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 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

MENOMINEE COUNTY

COMPARTMENT: 108

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		25	5	3		2			43	2									80
Black Spruce											14								14
Cedar								11		86	21	126						4	248
Grass	66																		66
Lowlnd Brush	55																		55
Marsh	68																		68
Mx Swmp Cnfr						6				16									22
Red Pine			13																13
Spruce Fir			10	45				10											65
Swamp Hrdwds									40									38	78
Tamarack			2	11							58								71
Upland Hdwds									15	20								65	100
White Pine				4															4
Total	189	25	30	63		8		21	98	124	93	126						107	884

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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 108

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	80																										80
S Black Spruce		14																									14
C Cedar				248																							248
G Grass					66																						66
L Lowlnd Brush									55																		55
N Marsh											68																68
Q Mx Swmp Cnfr												22															22
R Red Pine																13											13
F Spruce Fir																			65								65
E Swamp Hrdwds																				78							78
T Tamarack																						71					71
M Upland Hdwds	20																		5					75			100
W White Pine																										4	4
Total	100	14		248	66				55		68	22				13			70	78	71			75		4	884

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **108**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4556 Cds	Hardwood	1638 Cds
Hardwood	237 Mbf	Hardwood	100 Mbf
Softwood	8123 Cds	Softwood	2022 Cds
Softwood	131 Mbf	Sum CutVol	3860 Cds
Sum TotVol	13415 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	167
884			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 108 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
18	M9	9		60	northern hardwood	unevenaged	thinning	6			
comnts Fmd : On contract 045-02-01.											
19	M9	20	81	55	aspen (upland)	mature	final harvest	6			
comnts Fmd : On contract 045-02-01.											
20	M5	5	70	60	spruce-fir (uplands- including upland black spruce)	low quality	final harvest	6			
comnts Fmd : On contract 045-02-01.											
22	F5	10	58	58	spruce-fir (uplands- including upland black spruce)	mature	final harvest	6			
comnts Fmd : On contract 045-02-01. I deleted stand 24 and combined it with stand. These two stands were combined when we set up the timber sale and are being managed in the same way. So, I combined them now while doing the inventory instead of after the sale is cut.											
23	S6	14	90	45	black spruce-swamp	high risk	final harvest	6			
comnts Fmd : On contract 045-02-01. LEAVE PATCHES OF SPRUCE FOR SEED SOURCE											
35	A6	11	75	60	aspen (upland)	mature	final harvest	6			
comnts Fmd : On contract 045-02-01.											
36	A6	2	75	60	aspen (upland)	mature	final harvest	6			
comnts Fmd : On contract 045-02-01.											
41	N0	18		30	marsh	nonstocked		0	other - specify in remarks		
comnts Fmd : Stand is a mix of lowland brush and tall marsh grass. This stand should be burned to promote marsh grass. This stand may be burned more than once this decade.											
43	M9	9		60	northern hardwood	unevenaged	removal	1	other - specify in remarks		
comnts Fmd : This stand contains large sugar maple that was grazed in the past. Very little vegetation, besides sedge in the understory. We will be removing the majority of the BA, leaving only 30 to 40 BA of sugar maple. This stand will be burned after it is harvested. This stand will be managed as a maple savanna. This stand may be burned more than once during the decade.											
403	G0	11			grass	nonstocked		0	other - specify in remarks		
comnts Fmd : POND DEVELOPMENT AREA. The edges of the ponds should be burned to maintain grassy marsh type. This stand may be burned more than once during this decade.											
405	G0	28			grass	nonstocked		0	other - specify in remarks		
comnts Fmd : This stand should be burned to maintain the area. This stand may be burned more than once during this decade.											
407	G0	22		60	grass	nonstocked		0	other - specify in remarks		
comnts Fmd : Scattered large burly sugar maple, with grass understory. Burn this stand. This stand may be burned more than once this decade.											
408	G0	2		70	grass	nonstocked		0	other - specify in remarks		
comnts Fmd : This stand is prescribed to be burned, it may be burned more than once this decade.											
Total Acres.....		161									

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 108 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
1	T6	58	94	40	tamarack	mature	seed tree	2	natural regeneration	

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : The majority of the cedar is poor quality, with the exception of a few pockets on the south end of the stand. The tamarack is nice quality and there is a high density throughout the stand. Clearcut this stand, leaving seed tree clumps scattered throughout the stand. The seed tree clumps will contain both cedar and tamarack. The only way this stand can be accessed is through private property. We will have to get permission.

26	A6	29	75	70	aspen (upland)	mature	final harvest	1	natural regeneration	
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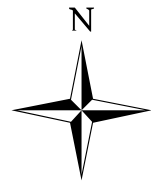
TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : This stand can only be accessed through private property. We will have to get permission.

Total Acres..... 87

Compartment 108
 T36N, R26W, Sec. 13-15, 22-24
 County: Menominee
 Unit: Escanaba
 YOE: 2007
 Acres: 884 GIS Calculated
 Stand Examiner:
 Map Revised: 10/14/2005
 Map Phase: Pre-review

15	14	13
22	23	24



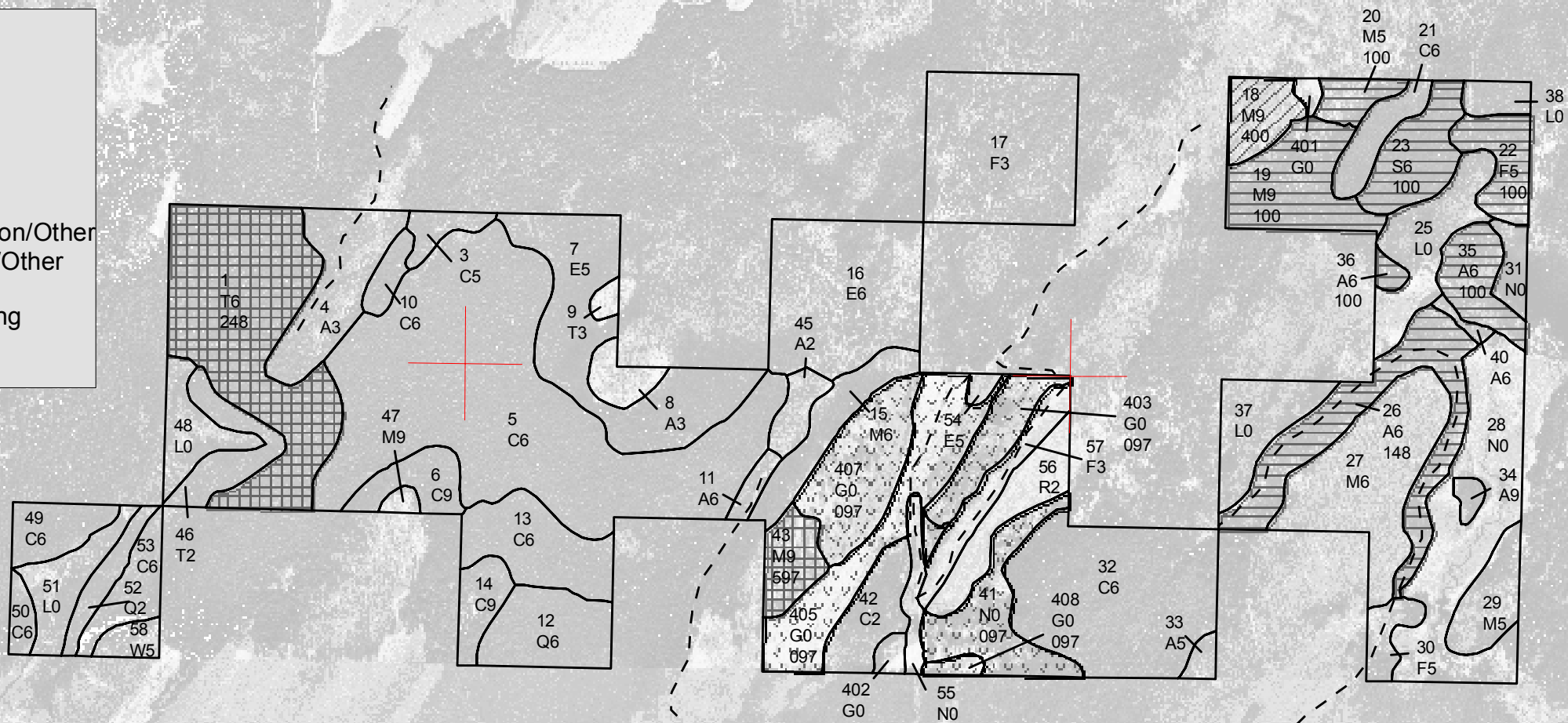
Field Map

Co. Rd. 366

Legend

- Miris Corners
- Poor Dirt Roads
- Stand Boundary
- Biodiversity/Old Growth Area
- 097 - Other/Prescribed Burning
- 100 - Final Harvest
- 148 - Final Harvest/Natural Regeneration/Other
- 248 - Seed Tree/Natural Regeneration/Other
- 400 - Thinning
- 597 - Removal/Other/Prescribed Burning

Name County Paved Roads
Name County Gravel Roads



Co. Rd. 358

