



**ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 9 ENTRY YEAR: 2009
Compartment Acreage: 764 County: Menominee

Last Revised: July 6, 2007

Stand Examiner: Dustin Salter, FMFMD; **Bill Rollo and Craig Albright, Wildlife Division**

Legal Description: T37N R28W Sections 21, 22, and 23

Management Goals: This compartment is a mix of upland aspen and pine sites along with a large percentage of lowland conifer stands. Three lowland conifer stands will be treated, harvesting all species; except a mix of the current species will be retained for diversity and retention. One large aspen stand will also be harvested. Two other aspen stands will be held for ten years to even out the aspen age class distribution within this YOE. Three of the mature pine stands will receive a final harvest, leaving some mature pine seed trees to regenerate the stands. The balsam and spruce are in a state of decline due to the spruce budworm.

Soil and Topography: The topography is nearly level with some gently rolling hills. Soils include poorly drained black muck over sand and well drained loamy sand over gravelly sand. Prominent soil series are Lupton-Tawas, Pemene-Rubicon, Mancelona-Nadeau, and Tawas-Banat-Nadeau.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is located on the northern edge of a block of state land that is about 20 miles long and 8 miles wide in the southwestern portion of Menominee County. This compartment has no private ownership within its boundaries. This compartment blocks in with other state land on its North and East sides. The primary uses for the land in this area are recreation and farming.

Unique, Natural Features: None known.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: The Pemenee Creek flows through this compartment with a number of feeder creeks and drainages flowing into it.

Wildlife Habitat Considerations: *Ecological Context:* This compartment is near the transition between 2 landscape ecosystems--sandy outwash plains and loamy ground moraine. Historically, this area supported white pine, red pine, aspen, birch, northern hardwoods, and swamps of cedar. Today this small compartment contains most of these same cover types.

Recommendations: This compartment contains several aspen stands that are mature. A portion of this acreage will be harvested and regenerated, providing habitat for early-successional wildlife such as deer, grouse, and woodcock. A portion of the aspen will be held for 10 years to provide age class diversity and to allow development of vegetative diversity within the stands (such as a balsam fir component)—both of which will enhance wildlife habitat in the future. There was interest expressed by forest managers to treat

some of the cedar and swamp conifer acreage. Predictably, these treatments will increase the components of spruce and tamarack but will reduce the percentage of cedar. Wildlife Division expressed concern about a reduction in vegetative diversity and a decrease in crown closure in these stands which lessens their value to wildlife during winter when snow and wind intercept is important. Agreement was reached to treat a portion of the swamp conifer acreage, recognizing the value of wood products contained in these stands. A narrow belt of lowland brush and forest along Pemene Creek continues to be designated a “Special Conservation Area” to provide riparian wildlife habitat.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of medium-textured till and medium-textured glacial till with drumlins. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Munising and Trempealeau Formations underlie the glacial drift. The Trempealeau could be quarried for dolostone. This compartment has not been leased for metallic exploration, but part of Compartment 10 was previously leased. Gravel pits are located in Section 22 and potential is good on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: Access into the South and Eastern portions of this compartment is a good dirt road off of County Road G-18. There are also a number of two track roads leading off from this dirt road. Access into the portion of the compartment North of Pemenee Creek is off of the Houte’s Spur Road. There is also walk in access from the North State Road into the western part of the compartment.

Survey Needs: Approximately 11 corners will need to be set.

Recreational Facilities and Opportunities: There are no developed facilities within this compartment. The primary uses of this compartment are hunting, fishing, four wheeling, and snowmobiling.

Fire Protection: The majority of the compartment is easily accessible. There are numerous water sources also present. The upland portions of this compartment are very well drained, so they dry out quickly. These stands have potential for a fast moving fire, but these upland stands are broken up by a number of lowland conifer stands.

Additional Compartment Information:

****** 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: 9

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	287																										287
S Black Spruce		6																									6
C Cedar				96																							96
G Grass					17																						17
L Lowlnd Brush									55																		55
Q Mx Swmp Cnfr												157															157
X Non Stocked													1														1
O Oak														8													8
R Red Pine															7												7
F Spruce Fir																			34								34
W White Pine															14											82	96
Total	287	6		96	17				55			157	1	8		21			34							82	764

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **9**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3298 Cds	Hardwood	1192 Cds
Softwood	6428 Cds	Softwood	2356 Cds
Softwood	880 Mbf	Softwood	76 Mbf
Sum TotVol	11486 Cds	Sum CutVol	3700 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	189
764			

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
5	Q6	58	83	50	mixed swamp conifer	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : Stand is mature. Clearcut this stand; except leave T-S-C seed trees scattered throughout the stand. Also, leave some half acre thick cedar patches throughout the stand. Hammond Brook flows through part of this stand on the East end. There is a couple acre patch of upland spruce/fir combined with stand, which has been hit hard by the spruce budworm. This stand will regenerate to a mix of all of the current species, but tamarack will be in the highest percentage. Any combination is acceptable though. The west two thirds of the stand has a higher BA of T and S. And the West third has a higher BA of cedar. # After the pre-review it was decided to treat this stand as it was prescribed; except we seperated out the west 1/3 rd of the stand, which has a higher proportion of cedar (now stand 3) and are not going to treat that portion. The volumes for this stand are going to vary quite a bit. The volumes in OIPC were taken from 17 points that I took within stands 3 and 5. It is almost impossible to separate the points to get more accurate volumes. But the cedar should be drastically lower.</p> <p>Wld : Concur with FMFMD. The east 2/3 of the stand will be cut. We will paint the boundary lines based on the aerial imagery that suggests that the part to be cut has less cedar volume then the west 1/3. WLD will assist with determining where the west line should be.</p>										
22	Q6	22	95	40	mixed swamp conifer	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : Stand is mature, cut all species; except leave some T-S-C seed trees. This stand will be managed for a mix of all species currently within the stand. Any combination is acceptable. There is a small creek that flows North to South through this stand. Leave a buffer along it. # After the pre-review it was decided that we would treat this stand as prescribed; except the two thicker patches would be delineated out and not harvested. This would be our retention. These two patches on the East side of the stand equal about 4 to 5 acres. The volumes for this stand will vary now that we are removing the patches of cedar from harvest.</p> <p>Wld : Concur with FMFMD. Deliniate the cedar based on aerial imagery. WLD will assist in determining these cedar island boundaries.</p>										
24	Q6	26	83	50	mixed swamp conifer	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : This stand is mature, cut all species; except leave T-S-C seed trees. This stand will regenerate to a mix of all species currently present in the stand. Any combination is acceptable. There is a small creek that flows through this stand on the South end, leave a buffer along it. # After the pre-review it was decided to treat this stand as prescribed; except delineate out the thick swath of cedar in the middle of the stand and hold this from harvest. This patch will be about 4 to 5 acres. This will be our retention for the stand. Because of holding this patch of thicker cedar from harvest, it will alter the volumes in OIPC quite a bit.</p> <p>Wld : Concur with FMFMD. Deliniate the cedar based on aerial imagery. WLD will assist in determining these cedar island boundaries.</p>										
25	A6	56	43	75	aspen (upland)	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand is mature, cut all species; except mark some pine and healthy spruce to retain throughout the stand. Also, leave all oak within the stand. Possibly mark a couple of aspen islands to leave to provide for sufficient retention. Do not cut over the edge of the bank down to the Pemene Creek.</p> <p>Wld : Concur with FMFMD. There is a drainage along the west portion. It was agreed at pre-review that this portion will be taken out of this stand and incorporated into stand 57.</p>										
42	R9	5	64	58	red pine	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : Decent quality red pine and poor quality white pine and aspen. Cut all species; except leave scattered red pine seed trees. Try to cut in non-snow months to maximize scarification. This stand will be managed for red pine, but a mix of R-W-A is acceptable. If the stand does not regenerate, mechanically scarify the site.</p> <p>Wld : Concur with FMFMD. As a reference, use the Within-Stand Retention Guidelines. This document includes targeted retention characteristics that may include; diversity (tree species, vertical, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
44	W6	7	83	51	red pine	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : Stand is mature, cut all species; except leave some R and W seed trees. This stand should be managed for R and W. The spruce budworm has killed quite a bit of the Fs and Fb and the rest is in a state of decline. If this stand does not regenerate, mechanically scarify it. There are some low pockets within this stand.</p> <p>Wld : Concur with FMFMD. As a reference, use the Within-Stand Retention Guidelines. This document includes targeted retention characteristics that may include; diversity (tree species, vertical, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 9

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
60	W9	7	97	51	red pine	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : Stand is mature, cut all species; except leave R-W-Oak seed trees. This stand has been severely impacted by the spruce budworm. It has killed a large percentage of the Fb and Fs in the stand and the remaining stems are in a state of decline. Cut as soon as possible to salvage as much as possible. Manage the stand for a mix of R, W, and Oak. If regeneration fails, mechanically scarify the site. There are two stands within comp 113, one of which borders the West side of this stand that needs to be set-up again(was not completed under its first contract). Once this stand is approved set this stand up with the two stands in comp 113.</p> <p>Wld : Concur with FMFMD. As a reference, use the Within-Stand Retention Guidelines. This document includes targeted retention characteristics that may include; diversity (tree species, vertical, horizontal), mast trees, cavity trees/standing dead/down wood, retention, and additional considerations.</p>										
401	G0	8			grass	nonstocked	removal	2		
<p>comnts Fmd : Not much grass, was burned last decade. Cut all aspen, jack pine, balsam fir, and spruce from this opening. If wildlife wants to burn the stand, do it after the wood in it is harvested.</p> <p>Wld : Concur with FMFMD.</p>										
Total Acres.....		189								

**Proposed Treatments
With Limiting Factors**

Compartment: 9

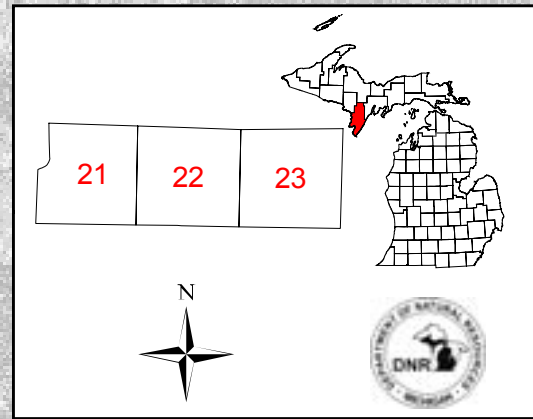
Entry Year: 2009

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

Total Acres..... 0

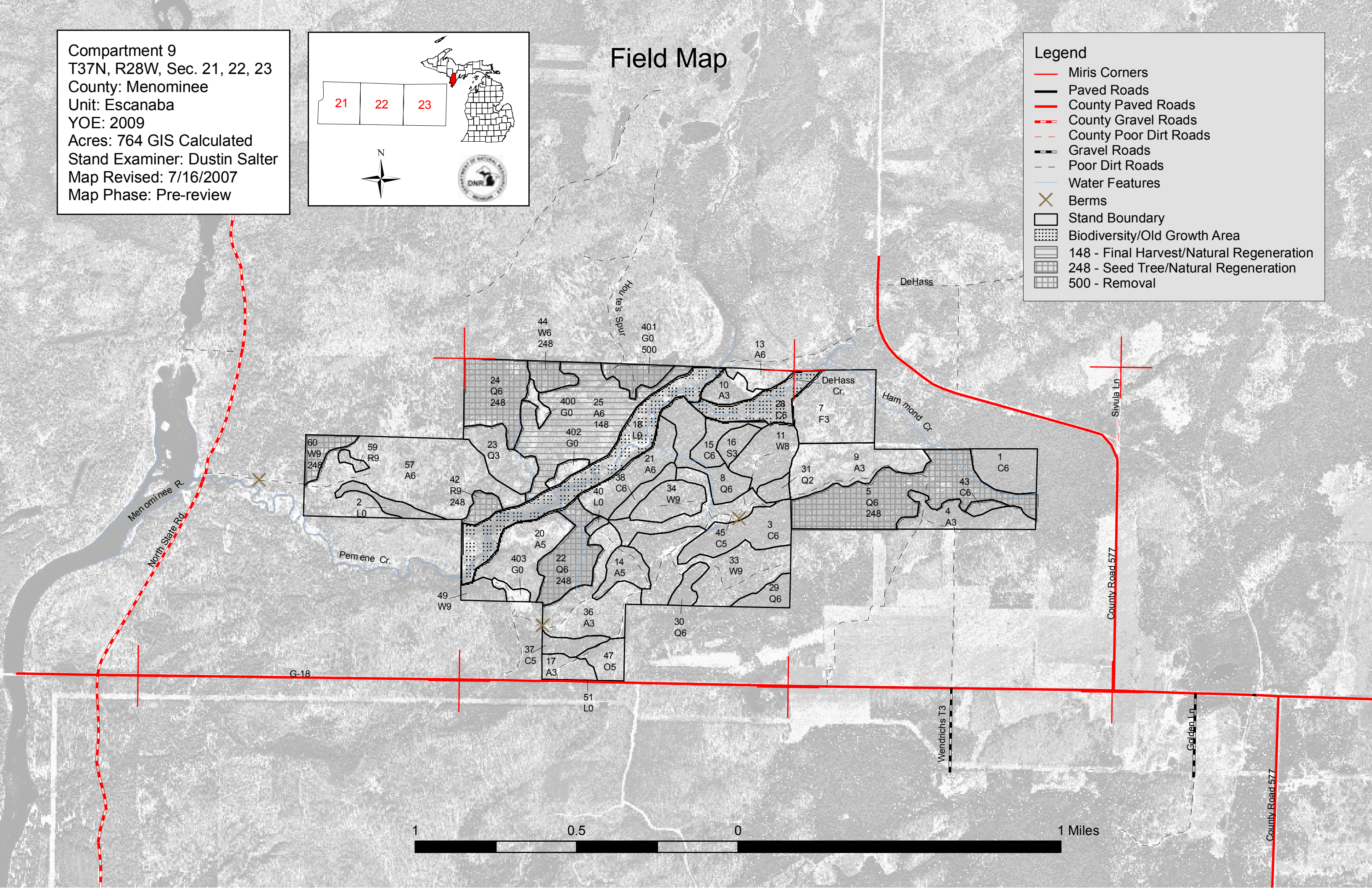
Compartment 9
 T37N, R28W, Sec. 21, 22, 23
 County: Menominee
 Unit: Escanaba
 YOY: 2009
 Acres: 764 GIS Calculated
 Stand Examiner: Dustin Salter
 Map Revised: 7/16/2007
 Map Phase: Pre-review



Field Map

Legend

- Miris Corners
- Paved Roads
- County Paved Roads
- County Gravel Roads
- County Poor Dirt Roads
- Gravel Roads
- Poor Dirt Roads
- Water Features
- ✕ Berms
- Stand Boundary
- Biodiversity/Old Growth Area
- 148 - Final Harvest/Natural Regeneration
- 248 - Seed Tree/Natural Regeneration
- 500 - Removal



County Road 577