



**SAULT FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 197      ENTRY YEAR: 2009**

**Compartment Acreage: 1751      County: Mackinac**

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**Revision Date:** 10/1/2007

**Stand Examiner:** Steve Crigier

**Legal Description:** T41N-R12W Sections 1 & 2; Newton Township  
T42N-R12W Sections 35 & 36; Newton Township

**RMU (if applicable):**

**Management Goals:** The management in this compartment aims to improve thermal cover for the winter deer yard and to increase species diversity through out. Maintaining good health and quality in the northern hardwood stands is also a priority. The shelterwood harvests that are prescribed are geared toward increasing the conifer component and the under represented species with in the stands.

**Soil and Topography:** The compartment is on fairly level terrain with some rolling hills in the southern part of the compartment. There are a couple of lakes in the northern portion of the compartment. In the southern part of the compartment there are numerous drainages that flow to the south into Lake Michigan. The Markey & Carbondale muck as well as the Dawson & Loxley peats are common in lowland, depressions on ground moraines and lake plains. The Greylock Sandy Loam along with Battydoe fine sandy-loam dominates the high ground, undulating areas on the ground moraines and the drumlins.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is surrounded by state land with some private ownership in the northwest corner. Birch Point Road leads to private cabins along the lake shore to the south of the compartment. The land is managed for timber production and deer habitat. The area is used by hunters, ATV operators, and hikers.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The compartment has some wooded-dune/swale complexes along with numerous drainages. The compartment also encompasses Sand Lake and Batty Doe Lake. The southern boarder of the compartment is adjacent to the Lake Michigan Old Growth compartment, the old lake shore bluff.

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

**Special Management Designations or Considerations:** The entire compartment is designated as a deer yard area.

**Watershed and Fisheries Considerations:** No fisheries issues.

**Wildlife Habitat Considerations:** Along Lake Michigan expanses of cedar habitat are heavily used by deer in the winter for cover and foraging. Cedar regeneration is challenging due to issues with herbivory and limited knowledge of the interactions between site conditions and management practices. Further investigation into this is currently being initiated and will benefit this habitat complex.

Invasive species such as spotted knapweed and purple loosestrife among others are also an important management issue within the compartment and will need careful attention to assure the protection of native plant populations.

Red-shouldered hawk have nested within the compartment and benefit from management practices that are sensitive to their life history requirements.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand & gravel and minor peat & muck and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/limestone seven miles to the west. Gravel pits are not located in the area and potential appears to be limited. There is no current economic oil and gas production in the UP.

**Vehicle Access:** The vehicle access in compartment 197 is fairly limited. Batty Doe Lake Rd is a good gravel road that provides the main access through the compartment. Off the Batty Doe Lake Rd are a few poor dirt roads branching off providing limited access mostly to the south and a few spurs to the north.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** There are no recreational facilities present within the compartment but the road system provides access for hunters, fisherman, bird watcher, hiker, etc.

**Fire Protection:** The compartment has a poor road system which will make access difficult. There are cabins in the northwest and southeast of the compartment that are a priority for protection. The majority of the soil types are low with a thick organic layer which can hinder fire fighting.

**Additional Compartment Information:**

- **Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Listing – Forested**
  - ◆ **Stand Listing – Non Forested**
  - ◆ **Special Conservation Area (SCA) Details**
  
- **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**
  - ◆ **SCA – Special Conservation Areas**



**Stage 1 Acres Summary By Level 3 Cover Type By Age**

**Compartment: 45197**

**Date: 9/11/2007**

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
<b>Aspen Types</b>	0	0	104.2	50.2	0	0	0	0	15.1	0	0	0	169.5
<b>Low-Density Trees</b>	2.1	0	0	0	0	0	0	0	0	0	0	0	2.1
<b>Lowland Coniferous Forest</b>	0	0	0	9.5	12.8	0	5	7.4	0	114.7	467	0	616.4
<b>Lowland Deciduous Forest</b>	0	34.4	25.7	11.2	0	0	0	0	0	0	22.9	0	94.2
<b>Lowland Mixed Forest</b>	0	0	0	0	0	0	0	0	9.1	0	32.3	0	41.4
<b>Lowland Shrub</b>	95.3	0	0	0	0	0	0	0	0	0	0	0	95.3
<b>Mixed Upland Conifers</b>	0	0	14.9	3.8	0	0	0	0	0	0	0	0	18.7
<b>Mixed Upland Deciduous</b>	0	0	0	33	0	0	0	14.9	40.7	0	0	0	88.6
<b>Northern Hardwood</b>	0	0	10.8	18.1	0	0	0	0	45.3	481.8	0	0	556
<b>Water</b>	68.4	0	0	0	0	0	0	0	0	0	0	0	68.4
<b>Grand Total</b>	165.8	34.4	155.6	125.8	12.8	0	5	22.3	110.2	596.5	522.2	0	1750.6

**PROPOSED TREATMENTS  
NO LIMITING FACTORS**

S t a n d	Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
7	45197007-Cut	14.9	4190 - Mixed Upland Deciduous with Cedar	5	69	0	Shelter Wood with Reserves	Regeneration	R.Maple, Conifer	

Rev

Cmnt: Sale is under contract '45-113-01-01' Batty Doe Shelter Mix.

Rev

Shelterwood stand to promote red maple, yellow birch, white pine, cedar and hemlock regen. Mark to leave 50-70sqft/ac of healthy and good form timber. Try to leave a heavy component of the conifers hemlock, cedar, white pine and spruce. Leave the majority of cavity trees for wildlife.

Spec:

Next

Regen check in 4 yrs from closure of contract. Acceptable regen is hard maple, red maple, white pine, hemlock, white spruce, beech, yellow birch, hemlock, cedar.

Steps:

19	45197019-Cut	32.3	6132 - Mixed Lowland Forest with Cedar	6	99	0	Shelter Wood with Reserves	Regeneration	Lowland Coniferous, Mixed Deciduous	
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Rev

Cmnt: Stand is currently under contract 'Batty Doe Shelter Mix'. Will be complete by the fall.

Rev

Cut everything but cedar. Will need to cut in a dry summer or cold winter.

Spec:Next

Regen check in 4 yrs after harvest. Acceptable regen is cedar, hemlock, yellow birch, white birch, balsam fir, white and black spruce, white pine, red maple.

Steps:

31	45197031-Cut	14.3	4115 - Y.Birch, Hemlock NH	5	73	0	Shelter Wood with Reserves	Regeneration	R.Maple, Conifer	
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Rev

Cmnt: Stand is under contract as 'Batty Doe Shelter Mix'. Will be complete by fall.

Rev

Leave tree mark, good quality red maple, beech, and yellow birch, leave all cedar and hemlock.

Spec:Next

regen check in 4 years after harvest, acceptable regen is red maple, beech, yellow birch, white birch, balsam fir, cedar, hemlock, white and black spruce.

Steps:

42	45197042-Cut	9.1	6132 - Mixed Lowland Forest with Cedar	6	77	0	Shelter Wood with Reserves	Regeneration	Lowland Coniferous, Mixed Deciduous	
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Rev

Cmnt: Stand is under contract 'Batty Doe Shelter Mix' Will be completed by fall.

Rev

Cut all species except for cedar.

Spec:Next

regen check in 4 yrs after harvest. Acceptable regen is white birch, balsam fir, cedar, yellow birch, white and black spruce, white pine hemlock, red maple.

Steps:

**Total Treatment  
Acreage Proposed: 70.7**

**PROPOSED TREATMENTS  
WITH LIMITING FACTORS**

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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
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Limiting Factor and Comment:

Rev Cmnt:

**No Stands with Limiting Factors**

Rev Spec:

Next Steps:

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Total Treatment  
Acreage Proposed: 0

Compartment 197  
 T41N, R12W, Sec. 1, 2  
 T42N, R12W, Sec, 35, 36  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 YOE: 2009  
 Acres: 1,751 GIS Calculated  
 Stand Examiner: Steven Crigier  
 Map Revised: 10/03/2007  
 Map Phase: Pre-review

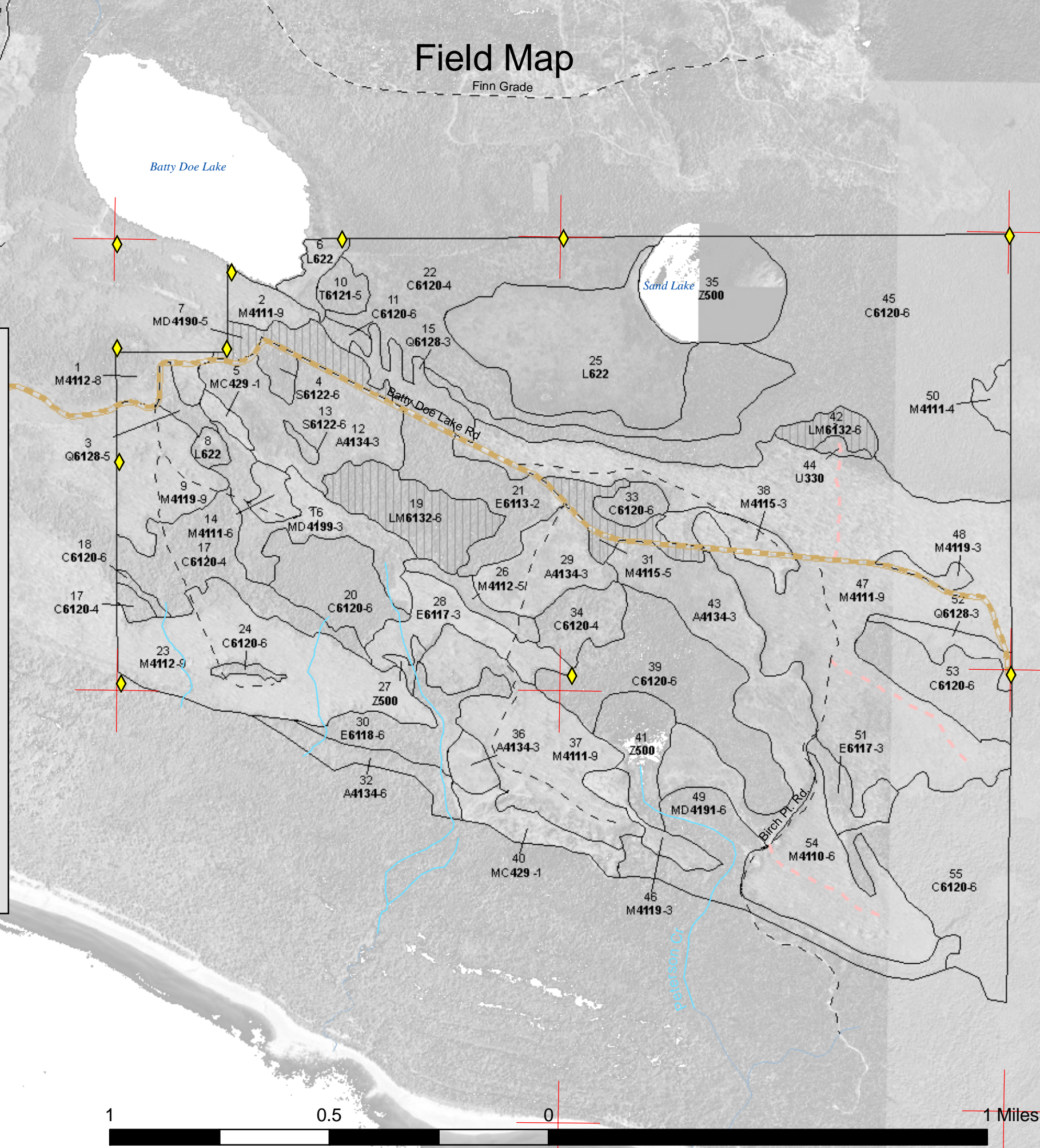
# Field Map

Finn Grade

## Legend

- RIs Corners
  - Miris Corners
  - Paved Road
  - Public Gravel Road
  - Poor Dirt Road
  - Closed Road
  - Intermittent Stream/Drain
  - Stream
  - Stands
  - Shelter Wood with Reserves
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 429 - Mixed Upland Conifers
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub

Multi Part Polygons:  
Stand 17 (2 Parts), split by stand 18



Stand #      Stacking Density

                 23      7

(A)(412)0 - 7

    OI Level 3

    Code Level 4

Cover Type Code

