



**SAULT FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 113      ENTRY YEAR: 2009**

**Compartment Acreage: 1,840      County: Mackinac**

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**Revision Date:** October 3, 2007

**Stand Examiner:** Karen Rodock

**Legal Description:** T43N-R6W Sections 16, 17 & 18; Moran Township

**RMU (if applicable):**

**Management Goals:** Compartment 113 is located south of Trout Lake and north of Brevort. The majority of the compartment is lowland mixed conifer of black spruce, cedar and tamarack with a variety of other species. Two portions of the compartment are uplands with northern hardwoods and mixed aspen/birch stands. The northern hardwoods were select harvested within the past five years. One small stand on the west side of the compartment was select cut this spring. The aspen/birch stands were mostly treated within the past 20 years. There are 2 stands of over 50 year old aspen/birch of which one is prescribed for treatment of clearcut with reserves. The southeast portion of the stand will be left for retention. Harvest is prescribed to promote age class diversity of the area. One black spruce stand is prescribed for harvest to promote age class diversity within the various lowland swamp conifer stands. Four stands of various sizes were harvested last year and have not met the green up requirements. These stands are scheduled for regeneration checks to monitor the stands natural regeneration. Parts of the stands do have trees regenerating but not up to the natural regeneration standards. Some of the cedar – mixed conifer stands are regenerating naturally from the mortality and blow down occurring within the stands. There is good heavy to medium stocking of cedar regeneration of up to 20 feet tall within some of the stand. There is some deer activity within the compartment especially in the recently harvested stands.

**Soil and Topography:** The majority of the compartment is lowlands of Markey and Carbondale mucks and Markey-Spot-Finch complex with islands of little higher islands of Pullup fine sand and Heinz sandy loam. There are two larger islands of high ground in the lowland area which are Paquin- Finch sands and Spot-Finch Complex. Small pond and bog areas and South Branch of Carp River are a mix of Entisols, and Histosols and Aquepts ponded. The hardwood area on the north western side of compartment is dominated by Wallace sand. The upland mixed deciduous stands are Paquin-Finch sand, Paquin sand, Finch sand and grading into the lowlands with the Spot-Finch complex.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is entirely in state ownership except for two private forties within the compartment. The surrounding lands are entirely in state ownership except for one private forty on the northwest corner of the compartment. The private forties are hunting and weekend cabins with no permanent residences within or in the area surrounding the compartment.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** There is a potential for rare, threatened or endangered plant and animal species and natural communities within this compartment. Moose tracks were found during the inventory process. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

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

**Special Management Designations or Considerations:** All management activities will follow all BMP guidelines around the wetland features. The south Branch of the Carp River normally flows through this compartment. This August, there was no water in the stream bed and all ponds were dry. The Caffey Truck Trail is a snowmobile and ORV trail so specification restrictions will be placed on the timber harvesting activities.

**Watershed and Fisheries Considerations:** This compartment contains part of the South Branch Carp River. A vegetative buffer of 200 feet should be retained in stands 48 and 32 to discourage beaver activity. High numbers of beaver dams in the headwaters region of a stream can significantly elevate water temperatures, creating adverse conditions for trout species.

**Wildlife Habitat Considerations:** This compartment is composed predominantly of lowland forest types with a mix of openings, upland deciduous stands. Eastern white cedar regeneration is widespread in some areas. A stream transects the compartment and a reserve area adjacent to the wetland provide core habitat for foraging, dispersal, breeding, and hibernacula for salamander, frog, toad, snake and turtle species. Terrestrial reserve areas or core habitat zones surrounding streams, ponds, and ephemeral wetlands offer protection for reptile and amphibian populations. Interruption of migration activity to breeding areas is one consequence of operation of equipment within this core habitat. Additionally, decreasing forest canopy closure in adjacent terrestrial habitat causes changes in microhabitat and soil temperature which poses serious threats to many amphibians. These species contribute to the prey base for many reptiles, birds, and mammals, thus this habitat is an important component in the food web and is critical to maintaining a diverse community of species. Considering that one of our management goals is the conservation of biological diversity, we must incorporate this information into our management decisions, and by doing so assure that the variety and abundance of all species continues on in a healthy and productive state.

Yellow-rumped warbler, ovenbird, red squirrel, broad-winged hawk, hairy woodpecker, bear, moose, spring peeper were observed within the compartment boundaries.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of peat and muck and lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subgroups below the glacial drift. The Engadine is quarried for stone/limestone in the area. 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 main access road into the compartment is the Caffey Truck Trail which is a State maintained gravel road. The Caffey Road is a good gravel to poor dirt road which depends on the maintenance and traffic use on the road. The other poor dirt public road accesses the northern portion of Section 18 off of the Caffey Truck Trail. There is an ice road/hunter and moose trail into the middle of Section 16 from the old logging trail in the south west part of Section 16. The new logging roads from the last YOE harvests have been closed to vehicle traffic. The western portion of the compartment is accessed from the Bennett Road which is a State maintained gravel to poor dirt road. This compartment has limited vehicle access.

**Survey Needs:** The private 40 in Section 17 needs to be researched for private corners on the west side. If none exist then a survey will be needed to run the north line for proposed treatment of stand 32.

**Recreational Facilities and Opportunities:** The Caffey Truck Trail is a groomed snowmobile trail in the winter and an ORV trail in the spring through fall. The area is used for hunting, trapping, fishing in the South Branch of the Carp River, vehicle recreation and sightseeing.

**Fire Protection:** This compartment is normally wet with a lower potential for fire activity. The muck soils would make for difficult mop up if there were a fire start in the lowland portion of this compartment. The vehicle access is limited therefore slowing any response time.

**Additional Compartment Information:**

**Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:**

- ◆ **Cover Type by Age Class**
- ◆ **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: 45113**

**Date: 10/2/2007**

	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	42.1	39.7	26.4	23.6	0	0	0	0	0	0	0	131.8
<b>Emergent Wetland</b>	6	0	0	0	0	0	0	0	0	0	0	0	6
<b>Low-Density Trees</b>	50.7	0	0	0	0	0	0	0	0	0	0	0	50.7
<b>Lowland Coniferous Forest</b>	0	0	0	0	4.8	6	14.2	23.2	0	528.6	475.2	243.3	1295.3
<b>Lowland Deciduous Forest</b>	0	0	0	0	0	0	0	0	5.4	28.7	29.9	0	64
<b>Lowland Shrub</b>	104.2	0	0	0	0	0	0	0	0	0	0	0	104.2
<b>Mixed Upland Deciduous</b>	0	0	12.8	0	0	0	0	0	33.8	70.1	0	0	116.7
<b>Natural Pines</b>	0	0	0	0	0	0	0	0	0	0	3.7	0	3.7
<b>Northern Hardwood</b>	0	0	0	0	0	0	0	0	0	0	67.3	0	67.3
<b>Grand Total</b>	160.9	42.1	52.5	26.4	28.4	6	14.2	23.2	39.2	627.4	576.1	243.3	1839.7

**PROPOSED TREATMENTS  
NO 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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11	45113011- Other	6.8	4112 - Maple, Beech, Cherry Association	9	108	0	Other	Regeneration	
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RevCmnt: Stand is under timber sale contract on Culvert Set Hardwood sale 45-106-02-01. This portion of the unit has been harvested. The data is for the stand which has been harvested.RevSpec: Check stand for natural regeneration 4 years after the Timber Cutting Report has been issued. Regeneration should be of present species within the stand of maple, beech, yellow and paper birch, aspen, hemlock, white spruce and balsam fir.NextSteps: No further follow up is needed if regeneration is acceptable. If regeneration is not acceptable, then decisions will have to be made to obtain acceptable regeneration.

32	45113032-Cut	13.3	6122 - Black Spruce	6	84	0	Clearcut with Reserves	Regeneration	Black Spruce
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RevCmnt: Stand is along the Caffey Truck Trail which is a snowmobile trail and ORV trail. Consideration must be to specifications for the Snowmobile and ORV trail.RevSpec: Stand will be clearcut with reserves following the retention guideline with some trees left along the edges and within the stand.NextSteps: Do regeneration survey within 4 years after treatment is complete. Other acceptable regeneration would be paper birch, aspen, white spruce, black spruce, tamarack, red maple, aspen, balsam poplar, and cedar.

48	45113048-Cut	18.8	4193 - Birch, Aspen	6	73	0	Clearcut with Reserves	Regeneration	Aspen, Birch
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RevCmnt: Stand is along the Caffey Truck trail which is a snowmobile and ORV trail. Specifications on the timber sale will have to take into consideration the trails for harvesting. South east portion of the stand was removed from treatment for retention, ground conditions and visual impact.RevSpec: Clearcut the stand with reserves following the retention guidelines. Some trees should be left along the southern edge for budding trees. As per fisheries, a 200' buffer will be left along the South Branch of Carp River.NextSteps: Do a regeneration check within 4 years after treatment. Other acceptable regeneration is birch, aspen, maple, cherry, balsam fir, white spruce, black spruce and cedar.

13	NF_45113013- Other	25.6	Unspecified	0	0	0	Other	Regeneration	
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RevCmnt: Stand was harvested on Quality Caffey Hardwood sale 45-106-02-01. The sale was closed on 12/13/2006. The stand has not regenerated to greenup requirement standards.RevSpec: Stand needs to check for regeneration within 4 years for the cutting of the sale. The stand needs to be checked for acceptable regeneration of balsam fir, black spruce, white spruce, cedar, red maple, aspen, balsam poplar, and birch.NextSteps: No further follow up is needed if regeneration is acceptable. If regeneration is not acceptable, then decisions will have to be made to obtain acceptable regeneration.

14	NF_45113014- Other	5.0	Unspecified	0	0	0	Other	Regeneration	
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RevCmnt: Stand was harvested on Quality Caffey Hardwood sale. The sale was closed on 12/13/2006. The stand has not regenerated to greenup requirement standards.RevSpec: Stand needs to check for regeneration within 4 years for the cutting of the sale. The stand needs to be checked for acceptable regeneration of balsam fir, black spruce, white spruce, cedar, red maple, aspen, balsam poplar, and birch.NextSteps: No further follow up is needed if regeneration is acceptable. If regeneration is not acceptable, then decisions will have to be made to obtain acceptable regeneration.

**PROPOSED TREATMENTS  
NO 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. 2
<b>24 NF_45113024-Other</b>	18.1	Unspecified	0	0	0	Other	Regeneration		

Rev  
Cmnt: Stand was harvested on Quality Caffey Hardwood sale 45-106-02-01. The sale was closed on 12/13/2006. The stand has not regenerated to greenup requirement standards.

Rev  
Spec: Stand needs to check for regeneration within 4 years for the cutting of the sale. The stand needs to be checked for acceptable regeneration of balsam fir, black spruce, white spruce, cedar, red maple, aspen, balsam poplar, and birch.

Next  
Steps: No further follow up is needed if regeneration is acceptable. If regeneration is not acceptable, then decisions will have to be made to obtain acceptable regeneration.

<b>33 NF_45113033-Other</b>	2.1	Unspecified	0	0	0	Other	Regeneration		
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Rev  
Cmnt: Stand was harvested on Quality Caffey Hardwood sale 45-106-02-01. The sale was closed on 12/13/2006. The stand has not regenerated to greenup requirement standards.

Rev  
Spec: Stand needs to check for regeneration within 4 years for the cutting of the sale. The stand needs to be checked for acceptable regeneration of balsam fir, black spruce, white spruce, cedar, red maple, aspen, balsam poplar, and birch.

Next  
Steps: No further follow up is needed if regeneration is acceptable. If regeneration is not acceptable, then decisions will have to be made to obtain acceptable regeneration.

**Total Treatment  
Acreage Proposed: 89.6**

**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:

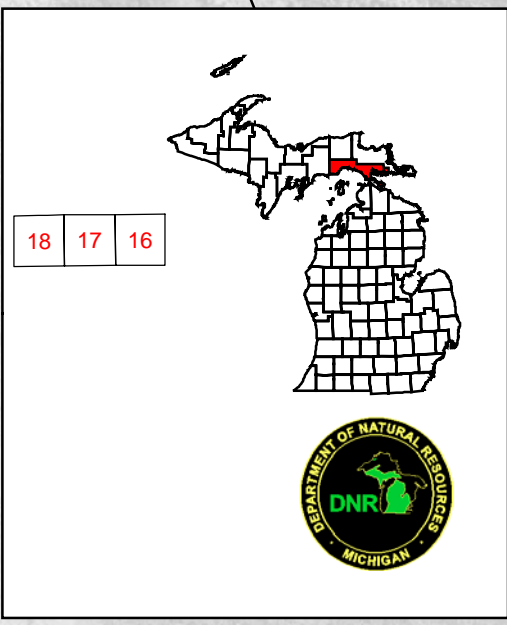
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Total Treatment  
Acreage Proposed: 0

Compartment 113  
 T43N, R06W, Sec. 16-18  
 County: Mackinaw  
 Unit: Sault Ste Marie  
 YOE: 2009  
 Acres: 1,840 GIS Calculated  
 Stand Examiner: Karen Rodock  
 Map Revised: 10/10/2007  
 Map Phase: Pre-review

# Field Map

Stand # **23**      Stacking Density  
 (A) (412)0) -7  
 OI Level 3  
 Code Level 4  
 Cover Type Code



### Legend

- RLS Corners
- Miris Corners
- Trails
- Paved Road
- Public Gravel Road
- Public Poor Dirt Road
- Closed Road
- Intermittent Stream/Drain
- Stream
- Motorcycle Trails
- Snowmobile Trails
- Stands
- Clearcut with Reserves
- Other Treatment - See Comments

### Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

Level 3

- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

