



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 160 ENTRY YEAR: 2009

Compartment Acreage: 1921 County: Mackinac

Revision Date: 10/2/2007

Stand Examiner: Cory Luoto

Legal Description: T43N-R8W Sections 16, 17 & 21; Hudson Township

RMU (if applicable):

Management Goals: This compartment is located 6 miles east and 1 mile north of Naubinway. The compartment and surrounding area is composed of a variety of different upland and lowland types and species. The aspen type within the compartment and the surrounding area has been managed extensively within the past 30 years. Most of the aspen within the compartment was harvested between 1972 and 1985. A large aspen type timber sale (Strickler Sale) was set up in the early 70's for Mead to supply wood to the new mill. Most of the aspen is now over the 5 inch diameter class. Some stands in the adjacent compartments harvested on the Strickler Sale have been chipped or will be harvested to enhance the age class diversity of the aspen resources within the surrounding area. The conifer stands will not be managed this year of entry. The Best Management Practices guidelines and Fisheries recommendations will be followed when putting buffers along the Black River.

Soil and Topography: The uplands are generally Caffey-Ingalls-Iosco complex, Iosco sand, and Pullup fine sand. Lowlands and swamps consist primarily of Spot-Finch complex, Finch-Dawson-Pullup complex, Markey-Spot-Finch complex, and Dawson and Loxley peats. Level lowlands to rolling uplands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The east and south edges of the compartment are bordered by state land. The western edge is bordered by both state and private land. The northern edge has two large private land owners. In section 21 there is a five acre private parcel belonging to the pipeline. Most of the private land holding are primarily hunting camps.

Unique, Natural Features (include only non-site specific and non-sensitive information): There is a potential for some rare, threatened, and special concern plant and animal species to inhabit the compartment. 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: The potential exists for red-shouldered hawks in this area. If active nests are found, appropriate buffers and harvest timing limitations will be placed.

Watershed and Fisheries Considerations: The East Branch of the Black River and Borgstrom Creek are found within this compartment. This river system supports a diverse trout community and is an important stream for migratory salmonids such as steelhead. Summer water temperatures are very good with temperatures typically in the low 60's F. Maintaining this habitat and water quality (groundwater) is critical for the fish community in the Black River watershed.

Wildlife Habitat Considerations: Aspen are the predominate forest type within this compartment and are management focuses on creating a multi-age stand composition which optimizing benefit to woodcock, ruffed grouse, deer, and pileated woodpecker. The southern portion of the compartment lies within the deer yard. Cedar within managed stands will be reserved to sustain deer and other species during the critical winter period.

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.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 50 and 100 feet. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/limestone nine miles to the northeast. A sand pit is located in Section 16. 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 is very good through most of the compartment. The Borgstrom Road is a paved county road that runs through the center of the compartment. The Flowing Well Road provides access into section 17. There are numerous two tracks running east into sections 16 and 21.

Survey Needs: None

Recreational Facilities and Opportunities: The Black River State Forest Campground is just to the west and Hog Island State Forest Campground is to the southeast. The area is heavily used by fishermen, hunters, campers, berry and mushroom pickers, motorized vehicle users and nature viewers. The close proximity to the private lands and the campground makes the area more enticing for recreational users.

Fire Protection: While the opportunity exists for wildfires within the compartment, none have been noted in recent years. The potential exists for a fire start; however this area is close to the Naubinway Office and has good vehicle access throughout most of the compartment. There is also the possibility of fire starts from people fishing along the river.

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: 45160

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
Aspen Types	0	118.5	0	0	908.9	11.1	0	137	0	0	0	0	1175.5
Herbaceous Openland	54.4	0	0	0	0	0	0	0	0	0	0	0	54.4
Low-Density Trees	40	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Coniferous Forest	0	24.5	0	32.4	68.7	0	0	13	0	0	135.4	0	274
Lowland Mixed Forest	0	0	0	0	0	0	0	74.5	0	0	0	0	74.5
Lowland Shrub	15.7	0	0	0	0	0	0	0	0	0	0	0	15.7
Other Upland Conifers	0	0	0	0	0	0	0	0	0	112.6	0	0	112.6
Road/Parking Lot	9.3	0	0	0	0	0	0	0	0	0	0	0	9.3
Upland Mixed Forest	0	0	0	29.8	91.7	43.6	0	0	0	0	0	0	165.1
Grand Total	119.4	143	0	62.2	1069.3	54.7	0	224.5	0	112.6	135.4	0	1921.1

**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
41 45160041-Cut	96.4	4134 - Aspen, Spruce/Fir	9	62	0	Clearcut with Reserves	Regeneration	Aspen, Spruce/Fir	

Rev Cmnt: This is a mature aspen - spruce - fir stand. The aspen is showing serious signs of decline and should be harvested at this time.

Rev Spec: The stand should be clearcut with reserves. Retention should be a representation of the current species within the stand. A 300' buffer will be left along the creek on the west side of the stand. Cedar will be left within the stand. The spruce bogs within the stand will be connected to allow more within stand retention. Stand should not be limited to a winter cut. Use rutting spec in sale conditions.

Next Steps: A regeneration check should be completed within four years after harvest is complete. Acceptable regeneration would be aspen, spruce, fir and red maple.

**Total Treatment
Acreage Proposed: 96.4**

**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:

Total Treatment
Acreage Proposed: 0

Field Map

Compartment 160
 T43N, R08W, Sec. 16, 17, 21
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2009
 Acres: 1,921 GIS Calculated
 Stand Examiner: Cory Luoto
 Map Revised: 9/20/2007
 Map Phase: Pre-review

Stand #	23	Stocking Density
(A) (412)0	-7	
Ol Level 3		
Code Level 4		
Cover Type Code		

Brennan Lake



Legend

- Miris Corners
 - Federal or Interstate Highway
 - Paved Road
 - Intermittent Stream/Drain
 - Stream
 - Stands
 - Clearcut with Reserves
- Forest Stands**
- Level 3
 - 413 - Aspen Types
 - 423 - Other Upland Conifers
 - 430 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
 - 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub

