



**SAULT FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 115 ENTRY YEAR: 2009

Compartment Acreage: 1875 County: Mackinac

Revision Date: 10/2/2007

Stand Examiner: Cory Luoto

Legal Description: T43N-R6W Sections 27, 28 & 29; Moran Township

RMU (if applicable):

Management Goals: This compartment lies approximately 4½ miles north of Brevort. Management in this compartment is limited by access and merchantability. The western portion is marginal hardwood ground that has been harvested within the last ten years. The white pine and hemlock regeneration within these stands is doing phenomenal. The rest is primarily swamp conifer. There is one small northern hardwood stand in the northeast corner that is already set up for sale. It is part of a larger stand to the north.

Soil and Topography: Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Markey-Spot-Finch and Spot-Finch complexes. Uplands are generally Paquin sand and Paquin-Finch sands. Level lowlands to rolling uplands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment is completely surrounded by state land. The SENW of section 27 is privately owned and landlocked.

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. Moose and Bald Eagles have been documented in this area.

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

Special Management Designations or Considerations: None noted.

Watershed and Fisheries Considerations: The Little Brevoort River is found in this compartment and supports a fish community of brook trout, pearl dace, northern redbelly dace, Iowa darter, brook stickleback and sculpin spp. This compartment is in both the Northern Lake Huron watershed and the Northern Lake Michigan Watershed. Since there are no treatments prescribed in this compartment, NLHMU has no comments.

Wildlife Habitat Considerations: Large expanses of lowland coniferous forest dominate this compartment with streams on the east and west ends. Terrestrial habitat along the stream provides areas 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.

Cedar benefits wintering deer by providing nutritious forage creates lower snow depths beneath thick canopy cover. Deer expend less energy in the critical winter period by traveling in low snow levels.

Moose and bald eagle are known to occupy and benefit from forest management within this area.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and minor 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 western portion is accessed from the Brevort River Road. The northern portion is accessed from the Dells Mills Road. Access to the interior of the compartment is very difficult to completely non-existent.

Survey Needs: None.

Recreational Facilities and Opportunities: Bear hunting is common along Dells Mills and Brevort River Road Road. There is potential for trapping and deer, rabbit, and game bird hunting where access permits. Limited access makes actual recreational use within this compartment minimal.

Fire Protection: This compartment has lower fire intensity potential with the hardwood stands and lowlands. The problem of ground fire does exist in this portion of the compartment.

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: 45115

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
Aspen Types	0	0	7.6	0	0	0	0	0	0	0	0	0	7.6
Emergent Wetland	7.1	0	0	0	0	0	0	0	0	0	0	0	7.1
Herbaceous Openland	22.7	0	0	0	0	0	0	0	0	0	0	0	22.7
Lowland Coniferous Forest	0	0	0	13.2	0	0	50.2	0	0	22.5	1243.9	0	1329.8
Lowland Shrub	29.4	0	0	0	0	0	0	0	0	0	0	0	29.4
Mixed Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	67.3	67.3
Natural Pines	0	0	0	0	0	0	0	0	0	0	82.7	210.1	292.8
Northern Hardwood	0	0	0	53.4	0	0	0	0	0	18	0	0	71.4
Other Upland Conifers	0	0	0	0	33.4	0	0	0	0	0	0	0	33.4
Water	13.7	0	0	0	0	0	0	0	0	0	0	0	13.7
Grand Total	72.9	0	7.6	66.6	33.4	0	50.2	0	0	40.5	1326.6	277.4	1875.2

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

S
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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
24 45115024-Cut	4.4	4112 - Maple, Beech, Cherry Association	9	81	0	Single Tree Selection	Regeneration	Maple, Beech, Cherry Association	

RevCmnt: This stand is part of a larger stand to the north that is currently being set up for a commercial harvest.Rev

Single tree selection harvest. Retention should be representation of the current stand. Thin to 70 - 90 basal area.

Spec:NextSteps: A regen check should occur within four years after the completion of the harvest. Acceptable regen would be maple, beech, hemlock, yellow birch, black cherry, spruce, aspen and balsam.

**Total Treatment
Acreage Proposed: 4.4**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

S
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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:

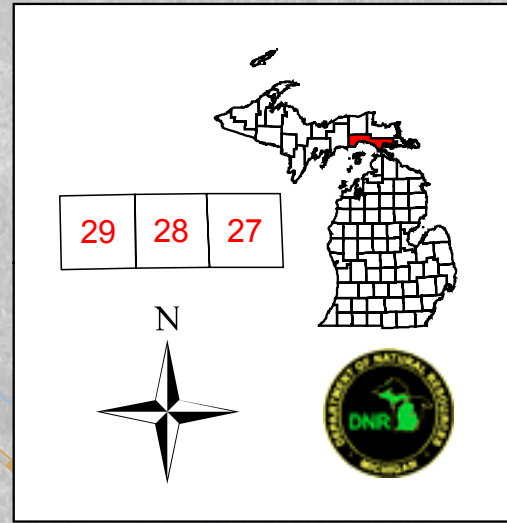
Next Steps:

Total Treatment
Acreage Proposed: 0

Compartment 115
 T43N, R06W, Sec. 27-29
 County: Mackinac
 Unit: Sault Ste Marie
 YOE: 2009
 Acres: 1,875 GIS Calculated
 Stand Examiner: Cory Luoto
 Map Revised: 9/12/2007
 Map Phase: Pre-review

Field Map

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



- Legend**
- Miris Corners
 - Paved Road
 - Public Gravel Road
 - Intermittent Stream/Drain
 - Stream
 - Stands
 - ⊗ Single Tree Selection
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland

