



**ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: #005 ENTRY YEAR: 2007

Compartment Acreage: 827 County: Menominee

Last Revision: October 7, 2005

Stand Examiner: Dan Racine, Forester, FMFMD Natalie Nelson-Randall and Craig Albright, Wildlife Division.

Legal Description: T37N R27W Sections 28, 29, and 30

Management Goals: This compartment is comprised of 279 acres of Aspen, Spruce/Fir, and Upland Hardwoods. The lowland types including swamp conifer, cedar, and swamp hardwoods comprise 531 acres. The compartment has 9 acres of water and 3 acres of grass opening. A significant portion of the cedar and lowland types are included in the Carney Fen (area being considered for a natural area by an area group) with rare orchids found throughout. There are a total of five stands proposed for treatment in this compartment. Three M6 stands are selection harvest and two A6 stands are final harvest. The management of objective on these stands is to naturally regenerate the existing species.

Soil and Topography: The soils within this compartment are Lupton-Cathro association, Onaway fine sandy loam, Nadeau fine sandy loam, and Summerville Cuthard fine sandy loam. In the lowland areas the soils are dominated by the Lupton Cathro association and the upland areas are dominated by the Onaway fine sandy loam. The main limitation in the Lupton-Cathro association is severe wetness with soils level in depressions and wind throws throughout these soils. The Onaway fine sandy loam soils are found in upland areas on ridges and knolls with limitations of equipment during the spring and severe wet periods. The entire compartment is nearly level with ridges and knolls.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is located south of county road 374 west of Carney. The compartment is surrounded by private land to the east and west and state land to the north and south with some private land interspersed. The private land is owned by multiple non-industrial private landowners.

Unique, Natural Features (include only non-site specific and non-sensitive information): The Carney Fen area is located within this compartment.

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

Special Management Designations or Considerations: The consideration of orchid sites that are found within proposed treatment areas.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: *Landscape Context:* This compartment is within a broad plain of loamy soil deposited by glacial activity. Drumlin ridges, trending northeast to southwest, are common throughout. Historically the ridge tops were covered with northern hardwood forests of sugar maple, beech, hemlock, cedar, and yellow birch. Between the ridges, swamps of cedar, tamarack, black spruce, or bog were common. Small knolls within wetlands were often dominated by hemlock and white pine. Wind throw was

the most common natural disturbance regime. During the past 100 years much of this landscape was converted to agriculture. Due to early logging practices, aspen forest increased greatly and hemlock and white pine declined. Also, northern hardwood stands have become less diverse in tree species composition.

Wildlife considerations this decade: The most notable feature in this compartment is Wiregrass Lake and “Carney Fen.” This fen has long been known for its rich diversity of orchids and other rare plants. We have designated the core fen as a “special conservation area” to protect it. In addition, we will work with Chappee Rapids Chapter of the MI/WI Audubon Society to determine if additional acreage should be incorporated into conservation area status, and possibly pursue Natural Area status. Several hardwood selection cuts are proposed for upland sites. Wildlife staff recommend these stands be managed to enhance the diversity of tree species present. A goshawk has nested in this compartment in the past, and the nest should be protected if found during timber sale preparation.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of a medium-textured glacial till with drumlins. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift is the Cambrian Trempealeau Formation. The Trempealeau could be used for stone and it overlaps Precambrian aged rocks, which may have metallic and nonmetallic mineral potential. Section 18, to the west, was previously leased for metallic exploration. Gravel pits are located on Drumlins to the east, but potential is limited within the Compartment. No economic oil and gas production has been found in the UP, although a recent well was drilled and cased for testing in Schoolcraft County.

Vehicle Access: The compartment access from the North is off county road 374 through private parcels and from the south off Pokavich road. The roads into the proposed treatment areas may need some road work and maintenance for hauling purposes to a main haul road. Permission from private landowners to access the proposed treatments will need to be secured.

Survey Needs: None

Recreational Facilities and Opportunities: There are no developed recreational sites within this compartment. The main recreational opportunities are hunting, fishing, and sight seeing.

Fire Protection: There are no significant fire dangers within this compartment. Water sites within this compartment are the Shakey River and Wiregrass Lake.

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: 5

Table 3

(acres shown in boxes)

STAND AGE CLASS

| COVER TYPE | Not Coded | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150-159 | All Aged | Total |
|--------------|-----------|-----------|-----------|----------|-----------|-------|----------|----------|----------|-----------|------------|------------|----------|-----------|---------|---------|---------|------------|------------|
| Aspen | | 22 | 39 | | 35 | | 8 | 4 | | | | | | | | | | 14 | 122 |
| Black Spruce | | | | | | | | | 9 | | 36 | | | | | | | | 45 |
| Cedar | | | | | | | | | | | 212 | | 1 | 57 | | | | | 270 |
| Grass | 2 | | | | | | | | | | | | | | | | | | 2 |
| LowInd Brush | 50 | | | | | | | | | | | | | | | | | | 50 |
| Mx Swmp Cnfr | | | | | 4 | | | | | 18 | | 107 | | | | | | | 129 |
| Non Stocked | 6 | | | | | | | | | | | | | | | | | | 6 |
| Spruce Fir | | | 4 | | 26 | | | | | | | | | | | | | 3 | 33 |
| Swamp Hrdwds | | | | | 7 | | | | | | 18 | 12 | | | | | | | 37 |
| Upland Hdwds | | | | 7 | | | | | | 32 | | | | | | | | 85 | 124 |
| Water | 9 | | | | | | | | | | | | | | | | | | 9 |
| Total | 67 | 22 | 43 | 7 | 72 | | 8 | 4 | 9 | 50 | 266 | 119 | 1 | 57 | | | | 102 | 827 |

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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: 5

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 | 122 | | | | | | | | | | | | | | | | | | | | | | | | | | 122 |
| S Black Spruce | | 45 | | | | | | | | | | | | | | | | | | | | | | | | | 45 |
| C Cedar | | | | 270 | | | | | | | | | | | | | | | | | | | | | | | 270 |
| G Grass | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 |
| L Lowlnd Brush | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | 50 |
| Q Mx Swmp Cnfr | | | | | | | | | | | | 129 | | | | | | | | | | | | | | | 129 |
| X Non Stocked | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | 6 |
| F Spruce Fir | | | | | | | | | | | | | | | | | | | 33 | | | | | | | | 33 |
| E Swamp Hrdwds | | | | | | | | | | | | | | | | | | | | 37 | | | | | | | 37 |
| M Upland Hdwds | | | | | | | | | | | | | | | | | | | | | | | | 124 | | 124 | |
| Z Water | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 9 | |
| Total | 122 | 45 | | 270 | 2 | | | | 50 | | | 129 | 6 | | | | | | 33 | 37 | | | | 124 | 9 | 827 | |

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 5

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|-------------------------|-----------|-----------------------------|---------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 3935 Cds | Hardwood | 731 Cds |
| Hardwood | 144 Mbf | Hardwood | 21 Mbf |
| Softwood | 7442 Cds | Softwood | 44 Cds |
| Sum TotVol | 11665 Cds | Sum CutVol | 817 Cds |
| Total Cmpt Acres | | Acres Proposed For Cut..... | |
| 827 | | 51 | |

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 5

Entry Year: 2007

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status | |
|--|------------|-----------|-----|------------|-------------------|------------|---------------|------------------|----------------------|------------|--|
| 4 | M6 | 9 | | 57 | northern hardwood | unevenaged | selection | 2 | natural regeneration | | |
| 9 | M6 | 19 | | 75 | northern hardwood | unevenaged | selection | 2 | natural regeneration | | |
| 24 | A6 | 4 | 60 | 77 | aspen (upland) | mature | final harvest | 2 | | | |
| 35 | A6 | 14 | | 77 | aspen (upland) | unevenaged | final harvest | 2 | natural regeneration | | |
| comnts Fmd : Cut all aspen and hardwood except for black cherry. Leave out the areas where th hardwood volume looks high. Leave submerchantable spruce and balsam. | | | | | | | | | | | |
| 36 | M6 | 5 | | 73 | northern hardwood | unevenaged | selection | 2 | natural regeneration | | |
| comnts Fmd : Gosshawk nest found in this stand. Protect the nest site. Alternate species to regenerate are A/F. | | | | | | | | | | | |
| Total Acres..... | | 51 | | | | | | | | | |

**Proposed Treatments
With Limiting Factors**

Compartment: 5

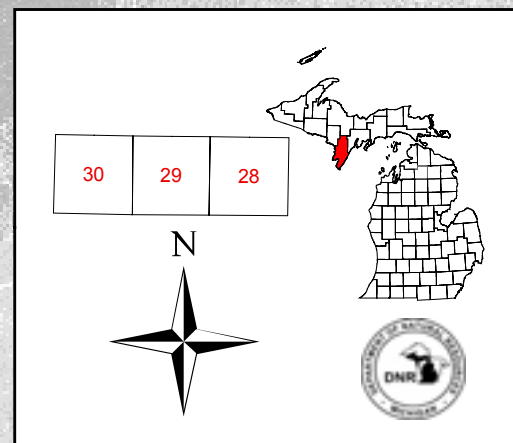
Entry Year: 2007

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FD Status |
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|----------------------|
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|----------------------|

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 5
 T37N, R27W, Sec. 28-30
 County: Menominee
 Unit: Escanaba
 YOY: 2007
 Acres: 827 GIS Calculated
 Stand Examiner: Dan Racine
 Map Revised: 10/12/2005
 Map Phase: Pre-review



Field Map

Legend

- Miris Corners
- - - Poor dirt roads
- ▭ Stand Boundary
- ▨ Biodiversity/Old Growth Area
- ▨ 100 - Final Harvest
- ▨ 148 - Final Harvest/Natural regeneration/Other
- ▨ 848 - Selection/Natural regeneration/Other
- Name** County Paved Roads
- Name** Water Features

