



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #78 ENTRY YEAR: 2009

Compartment Acreage: 1563 GIS Acreage: 1563 County: 52 MARQUETTE

Revision Date: 9/06/2007

Stand Examiner: Kevin LaBumbard

Legal Description: T43N, R24W, Sec. 7,8,9

Management Goals:

Improve the quality of the Northern Hardwoods stands through selective management while maintaining species diversity, (including the conifer content) and den trees for wildlife. While no Aspen stands are scheduled for management this treatment period, previous cuttings have provided age-class distribution of Aspen by harvesting selected stands. Considerations for species diversity, retention, coarse woody debris, and BMP's will be included with every harvest plan. In addition, the large wetland complex in this compartment will remain as is to provide the many wildlife and vegetative values contained within.

Soils and topography: Geologic features include a nearly level glacial drainage way, ground moraines and till plains. Soils range from organic swamps and poorly drained loamy soils to well drained loams. Major soil series include Carbondale, Trenary loams and Kalkaska sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is surrounded by additional State land with only a relatively small private land holding to the south. Primary land use around the compartment is production of commercial forest products and low key recreation.

Unique, Natural Features

Archeological, Historical, and Cultural Features

Contains evidence of old logging camps.

Special Management Designations or Considerations:

Special Conservation Area Stands: 15,16,18,20 Stand 18 is a new addition and proposed as possible ERA.

Watershed and Fisheries Considerations:

This compartment contains no lake or stream fishery and only a few small drainages.

Wildlife Habitat Considerations: Wildlife Habitat Considerations: Promote habitat legacies in all “Special Conservation Area” stands, such as standing and fallen snags, supercanopy trees, and natural processes/disturbances. Maintain or enhance biodiversity in northern hardwood stands through conservation of all associated overstory and understory species, with a particular focus on providing mesic conifer species in all forest strata. Lowland conifer stands are within the northern portion of the Arnold Deeryard. Maintenance of thermal cover in these lowland types is crucial for winter deer range.

Mineral Resource and Development Concerns and/or Restrictions: Sections 7 - 9, T43N-R24W, Marquette County

Surface sediments consist of an end moraine of medium-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River and Prairie du Chien Groups subcrop below the glacial drift. The Black River is quarried for stone in the UP and the PdC could be used for stone. There are no gravel pits located in this area and potential appears to be limited. Abandoned iron mines are located nine miles to the northwest. This area was not previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Access to the compartment is via Hamilton Homestead Road and the Escanaba River Road.

Survey Needs: none

Recreational Facilities and Opportunities:

The primary recreational activity for this area is for ruffed grouse and whitetail deer hunting.

Fire Protection: This compartment has a very low risk for wildfire.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **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, where pertinent, 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

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 78

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 | | 15 | | | | | | | | | | | | | | | | | 15 |
| Black Spruce | | | | | | | 6 | | | 102 | | | | | | | | | 108 |
| Cedar | | | | | | | | | | | 338 | 527 | | | | | | | 865 |
| Grass | 2 | | | | | | | | | | | | | | | | | | 2 |
| Hemlock | | | | | | | | | 22 | | | | 10 | | | | | | 32 |
| LowInd Brush | 41 | | | | | | | | | | | | | | | | | | 41 |
| Marsh | 34 | | | | | | | | | | | | | | | | | | 34 |
| Mx Swmp Cnfr | | | | | | | | | | 71 | | | 42 | | | | | | 113 |
| Non Stocked | 1 | | | | | | | | | | | | | | | | | | 1 |
| Spruce Fir | | | | | | | | | | | | 7 | | | | | | | 7 |
| Swamp Hrdwds | | | | | 29 | | | | | | | | | | | | | | 29 |
| Treed Bog | 6 | | | | | | | | | | | | | | | | | | 6 |
| Upland Hdwds | | | | | 5 | | | 6 | | | | | | | | | | 279 | 290 |
| White Pine | | | | | | | | | 20 | | | | | | | | | | 20 |
| Total | 84 | 15 | | | 34 | | 6 | 6 | 42 | 173 | 338 | 534 | 52 | | | | | 279 | 1563 |

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 78

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 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| S Black Spruce | | 108 | | | | | | | | | | | | | | | | | | | | | | | | | 108 |
| C Cedar | | | | 865 | | | | | | | | | | | | | | | | | | | | | | | 865 |
| G Grass | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 |
| H Hemlock | | | | | | 32 | | | | | | | | | | | | | | | | | | | | | 32 |
| L Lowlnd Brush | | | | | | | | | 41 | | | | | | | | | | | | | | | | | | 41 |
| N Marsh | | | | | | | | | | | 34 | | | | | | | | | | | | | | | | 34 |
| Q Mx Swmp Cnfr | | | | | | | | | | | | 113 | | | | | | | | | | | | | | | 113 |
| X Non Stocked | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 |
| F Spruce Fir | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | 7 |
| E Swamp Hrdwds | | | | | | | | | | | | | | | | | | | | 29 | | | | | | | 29 |
| D Treed Bog | | | | | | | | | | | | | | | | | | | | | | 6 | | | | | 6 |
| M Upland Hdwds | | | | | | | | | | | | | | | | | | | | | | | | 290 | | | 290 |
| W White Pine | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 20 | |
| Total | 15 | 108 | | 865 | 2 | 32 | | | 41 | | 34 | 113 | 1 | | | | | | 7 | 29 | | 6 | | 290 | | 20 | 1563 |

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **78**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|--------------------------|-----------|-----------------------------|---------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 4919 Cds | Hardwood | 177 Cds |
| Hardwood | 522 Mbf | Hardwood | 2 Mbf |
| Softwood | 9598 Cds | Sum CutVol | 181 Cds |
| Softwood | 462 Mbf | | |
| Sum TotVol | 16485 Cds | | |
| Total Cmpnt Acres | | Acres Proposed For Cut..... | |
| 1563 | | 27 | |

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 78

Entry Year: 2009

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status | |
|--|------------|-----------|-----|------------|-------------------|------------|------------|------------------|---------------|------------|--|
| 1 | M6 | 20 | | 65 | northern hardwood | unevenaged | selection | 2 | planting | | |
| <p>comnts Fmd : Nice hardwood stand growing on a high quality site. Primarily all sugar maple with basswood and a few large yellow birch on the edges. No conifers are present except for a few on the fringed. Maple regeneration is fair except in the old "elm gaps" where it has a medium stocking. Last thinning was in 1993. Retain all yellow birch and large basswood for species diversity.</p> <p>Wld : Underplant mesic conifers after timber sale completed.. Strive to move portions of stand into some larger diameter classes. Nearly nonexistent conifer component in all stratas. Leave some overstory defect for cavity and snag development. Leave cherry and all conifers. Conserve white birch.</p> | | | | | | | | | | | |
| 24 | M6 | 3 | | 65 | northern hardwood | unevenaged | selection | 2 | planting | | |
| <p>comnts Fmd : Essentially a pure sugar maple stand with a rare soft maple and basswood clump. Fringed contains a few huge yellow birch.</p> <p>Wld : Underplant mesic conifers. Conifer component lacking in all stratas. Several standing dead hemlock - 10" to 16' Dbh. Do not cut yellow birch or any conifers. Conserve some overstory aspen, basswood, and white birch.</p> | | | | | | | | | | | |
| 25 | M6 | 4 | | 65 | northern hardwood | unevenaged | selection | 2 | planting | | |
| <p>comnts Fmd : Essentially a pure sugar maple stand with a rare soft maple.</p> <p>Wld : Underplant mesic conifers after timber sale. Retain some mature aspen. Very little conifer component except for random fir poles. Save all conifers. Larger diameter red maple with advanced cavity development. Conserve white birch, basswood, and yellow birch.</p> | | | | | | | | | | | |
| Total Acres..... | | 27 | | | | | | | | | |

**Proposed Treatments
With Limiting Factors**

Compartment: 78

Entry Year: 2009

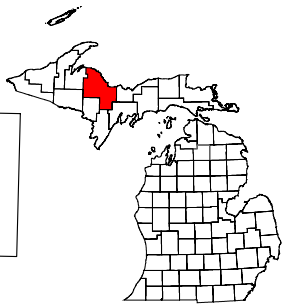
| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FD Status |
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|-------------------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

TREATMENT LIMITING FACTORS:

Total Acres..... 0



Field Map

Compartment 78
T43N, R24W, Sec. 7, 8, 9
County: Marquette
Unit: Gwinn
YOE: 2009
Acres: 1,563 GIS Calculated
Stand Examiner: Kevin LaBumbard
Map Revised: 5/29/2007
Map Phase: Pre-review



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Legend

- Miris Corners
- Poor Dirt
- Water Features
- Stand Boundary
- Biodiversity/Old Growth Area
- 800 - Selection
- 848 - Selection/Natural Regeneration/Other

