



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 04 ENTRY YEAR: 2008

Compartment Acreage: 1389 GIS acres. County: 52 Marquette

Revision Date: 8/24/2006

Stand Examiner: Kevin LaBumbard

Legal Description: T45N, R23W, Sections 19, 30, 31

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. Considerations for species diversity, coarse woody debris, and BMP's will be included with every harvest plan.

Soils and topography Terrain is relatively level to gently rolling, with sandy ridges suddenly rising from the lowlands. Soils rang from organics and mucks in the bog areas to well drained sands. Major soil associations include: Carbondale-Lupton-Rifle-Tacoosh-Angelica, and Rubicon-Croswell-Tawas ad Kinross.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is primarily boarded by additional state land, but private ownership lies adjacent especially to the north and south.

Unique, Natural Features

Archeological, Historical, and Cultural Features

Special Management Designations or Considerations:

Special Conservation Areas (formally know as Old Growth stands) are shown on the attached map.

Watershed and Fisheries Considerations:

While there are no streams found in compartment 4, it does lie just northeast of Cyr Swamp and contains some fairly large wetland complexes.

Wildlife Habitat Considerations:

Optimize species and vertical structural diversity and complexity in treated northern hardwoods stands. Enhance horizontal structural heterogeneity and complexity by maintaining a wide range of basal areas in the array of northern hardwoods stands. Underplant hemlock and/or white pine in northern hardwoods stands 1, 8, 13, and 19 upon sale completion.

Mineral Resource and Development Concerns and/or Restrictions: Sections 19, 30 & 31, T45N-R23W, Marquette County. Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Prairie du Chien Group subcrops below the glacial drift. This formation could be used for stone. A gravel pit is located in section 31 and potential appears to be good on

uplands. Abandoned iron mines are located nine miles to the west. This compartment has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access to the compartment is poor, with much of the access blocked by private ownership. Existing roads are built on heavy, poorly drained loams, which limits most land management activities to the winter months.

Survey Needs: none

Recreational Facilities and Opportunities: Recreation opportunities in compartment 51 are fairly poor due to the poor access. In addition, this area receives a very heavy snowfall, further limiting access except for snowshoeing or backcountry skiing. Hunting success for ruffed grouse and whitetail deer is only fair.

Fire Protection: This compartment has a 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 special conservation areas**

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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: 4

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 | | | 14 | | | | | | | | | | | | | | | | 14 |
| Black Spruce | | | | | | | | | 12 | 84 | | | | | | | | | 96 |
| Cedar | | | | | | | | | 39 | 3 | | | | | | | | | 42 |
| Grass | 3 | | | | | | | | | | | | | | | | | | 3 |
| Hemlock | | | | | | | | | 23 | | | | | | | | | | 23 |
| LowInd Brush | 34 | | | | | | | | | | | | | | | | | | 34 |
| Mx Swmp Cnfr | | | | | | | | | 461 | | | | | | | | | | 461 |
| Spruce Fir | | | | | | | | | 3 | | | | | | | | | | 3 |
| Swamp Hrdwds | | | | | | | | 3 | | 9 | | | | | | | | | 12 |
| Tamarack | | | | | | | | | 12 | | | | | | | | | | 12 |
| Treed Bog | 236 | | | | | | | | | | | | | | | | | | 236 |
| Upland Hdwds | | | 10 | | | | | 6 | 18 | | | | | | | | | 419 | 453 |
| Total | 273 | | 24 | | | | | 9 | 568 | 96 | | | | | | | | 419 | 1389 |

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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: 4

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 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| S Black Spruce | | 96 | | | | | | | | | | | | | | | | | | | | | | | | | 96 |
| C Cedar | | | | 42 | | | | | | | | | | | | | | | | | | | | | | | 42 |
| G Grass | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | 3 |
| H Hemlock | | | | | | 23 | | | | | | | | | | | | | | | | | | | | | 23 |
| L LowInd Brush | | | | | | | | | 34 | | | | | | | | | | | | | | | | | | 34 |
| Q Mx Swmp Cnfr | | | | | | | | | | | 461 | | | | | | | | | | | | | | | | 461 |
| F Spruce Fir | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | 3 |
| E Swamp Hrdwds | | | | | | | | | | | | | | | | | | | | 12 | | | | | | | 12 |
| T Tamarack | | | | | | | | | | | | | | | | | | | | | 12 | | | | | | 12 |
| D Treed Bog | | | | | | | | | | | | | | | | | | | | | | 236 | | | | | 236 |
| M Upland Hdwds | | | | | | | | | | | | | | | | | | | | | | | | 453 | | 453 | |
| Total | 14 | 96 | | 42 | 3 | 23 | | | 34 | | | 461 | | | | | | 3 | 12 | 12 | 236 | | | 453 | | 1389 | |

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 4

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|-------------------------|-----------|-----------------------------|----------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 8789 Cds | Hardwood | 1499 Cds |
| Hardwood | 261 Mbf | Sum CutVol | 1499 Cds |
| Softwood | 10309 Cds | | |
| Softwood | 152 Mbf | | |
| Sum TotVol | 19924 Cds | | |
| Total Cmpt Acres | | Acres Proposed For Cut..... | |
| 1389 | | 164 | |

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 4

Entry Year: 2008

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status |
|--|------------|------------|-----|------------|-------------------|------------|------------|------------------|---------------|------------|
| 1 | M6 | 18 | 74 | 53 | northern hardwood | mature | selection | 6 | planting | |
| <p>comnts Fmd : M5F4. Stand was schedule with stand 8 and originally sold in 1999. Sale was taken back by the state and reassigned in 2004. It is comprised of red maple poles with scattered spruce, fir, and cedar. Paint on the trees has faded but still visible. Contract marked by Penegor in 1998, - stand is to be select cut with stand 8.</p> <p>Wld : Hemlock trees are marked with orange paint - need to be excluded from sale. Patchy lowlands within stand with cedar, hemlock, and white pine as overstory. Yellow birch seems to be marked fairly heavy. Underplant hemlock and/or white pine after cutting completed. Leave all cedar, white pine, hemlock and white spruce.</p> | | | | | | | | | | |
| 8 | M6 | 103 | | 58 | northern hardwood | unevenaged | selection | 6 | planting | |
| <p>comnts Fmd : M6M7, Pockets of S, F, H. Originally contract marked and sold in 1999, this sale was taken back by the State and reassigned in 2004. The stand is fair quality hardwood, mostly soft maple with pockets of spruce, fir, and hemlock. Access will be over private land and much of the sale can only be cut when the ground is frozen.</p> <p>Wld : Do not cut cedar, hemlock, red pine, white pine or white spruce. Underplant hemlock and/or white pine after cutting completed.</p> | | | | | | | | | | |
| 13 | M6 | 29 | | 52 | northern hardwood | unevenaged | selection | 2 | planting | |
| <p>comnts Fmd : Good to fair quality hardwood site that drops to a wetter hemlock stand along the southern edge. Terrain varies from a sandy ridge in the north to wetter soils in the south. The southern portion of the stand contains much more hemlock and fir, while cherry and huge yellow birch are scattered thru the stand. Marking prescriptions will retain all yellow birch, cherry, as well as all cedar, hemlock, white pine and supercanopy white spruce if present. Access will be from the west and must be obtained from Plum Creek.</p> <p>Wld : Strongly support marking guidelines in forestry comment box. Underplant hemlock and/or white pine.</p> | | | | | | | | | | |
| 19 | M6 | 8 | | 58 | northern hardwood | unevenaged | selection | 6 | planting | |
| <p>comnts Fmd : M6M7, Pockets of S, F, H. Originally contract marked and sold in 1999, this sale was taken back by the State and reassigned in 2004. The stand is fair quality hardwood, mostly soft maple with pockets of spruce, fir, and hemlock. Access will be over private land and much of the sale can only be cut when the ground is frozen.</p> <p>Wld : Do not cut cedar, hemlock, white pine or white spruce. Underplant hemlock and/or white pine.</p> | | | | | | | | | | |
| 26 | M6 | 6 | 67 | 52 | northern hardwood | immature | thinning | 2 | planting | |
| <p>comnts Fmd : Former F stand, most of the fir is dead and down. The hardwood is mostly soft maple, with lots of clumps and low forks. About 5-10 basal area of hemlock poles and occasional cherry. Stand contains a scattering of supercanopy white spruce, and fir. Winter access only through private land. Retain all white pine, cedar, hemlock, and other supercanopy conifers.</p> <p>Wld : Strongly agree with marking guidelines set forth in forestry comment box. Underplant hemlock and/or white pine after cutting completed. Leave white birch along boundary with stand 400.</p> | | | | | | | | | | |
| Total Acres..... | | 164 | | | | | | | | |

**Proposed Treatments
With Limiting Factors**

Compartment: 4

Entry Year: 2008

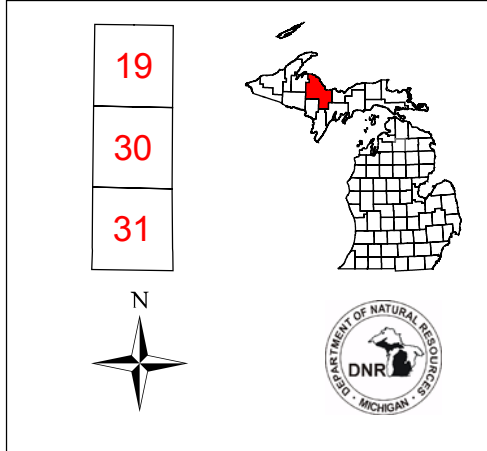
| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FD Status |
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|-------------------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

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 4
 T45N, R23W, Sec. 19, 30, 31
 County: Marquette
 Unit: Gwinn
 YOE: 2008
 Acres: 1,389 GIS Calculated
 Stand Examiner: Kevin LaBumbard
 Map Revised: 9/13/2006
 Map Phase: Pre-review



Legend

- Miris Corners
- - - County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Stand Boundary
- Biodiversity/Old Growth Area
- 411 - Thinning/Planting/Hand Tools
- 811 - Selection/Planting/Hand Tools

