



**GWINN FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #26 ENTRY YEAR: 2008**  
**Compartment Acreage: 1485 GIS acres County: Marquette**

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**Revision Date: 9/5/2006**

**Stand Examiner:** Jerry Mohlman

**Legal Description:** T44N R24W Sections 21,28,33

**Management Goals:** For the 10 yr. period beginning in 2008, we will harvest 2 aspen stands. Actually these 2 stands are part of a larger area of even aged aspen and they will be harvested to better balance the age/class distribution in the area and provide better wildlife habitat. We will also have selection harvests in 4 northern hardwood stands to reduce basal area to approximately 80, to increase growth rate on the better quality trees. We will retain some den trees and other trees important to wildlife in these harvests. We will maintain species and size diversity in these hardwood stands. BMP's will be followed in all harvests.

**Soils and topography:** Shupac-Trenary silt loam, Charlevois-Ensley complex, Carbondale and Tawas soils, Ensley muck, Cathro-Ensley mucks, Greenwood and Dawson soils, Shupac- Ensley complex. Mostly flat wetland conifer swamps and bogs with level to rolling upland. Generally rich soils on the uplands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Private hunting camps to the west and elsewhere nearby. Mostly forested land with very little development.

**Unique, Natural Features:**

**Archeological, Historical, and Cultural Features:** Old logging camp sites and rail grades in area.

**Special Management Designations or Considerations:** Special Conservation Areas (formally know as Old Growth stands) are shown on the attached map

**Watershed and Fisheries Considerations:** Mud creek and tributaries of Sawmill creek

**Wildlife Habitat Considerations:** Compartment #26 – 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 hardwood stands 1, 2, 4, and 16 upon sale completion. Strive for the best possible age class distribution and species diversity in every aspen stand.

**Mineral Resource and Development Concerns and/or Restrictions:** Compartment 26 Sections 21, 22, 28 & 33, T44N-R24W, Marquette County

Surface sediments consist of medium-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group subcrops below the glacial drift. This formation could be used for stone. There is a gravel pit in Section 23 and there maybe potential on the uplands. Abandoned iron mines are located six miles to the northwest. This State land has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Good near the Swamp Buck road and Parker Spur but many wet areas have no vehicle access.

**Survey Needs:** No corners requested for this entry period.

**Recreational Facilities and Opportunities:** General dispersed forest recreation.

**Fire Protection:** Fire frequency and intensity is low in this area other than occasional lightning strikes or human caused fires.

**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: 26

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		66	139		25	24	300												554
Black Spruce									16		70								86
Bog or Marsh	63																		63
Cedar							13			88			149						250
Grass	18																		18
LowInd Brush	23																		23
Mx Swmp Cnfr									117										117
Spruce Fir		5	33				21												59
Swamp Hrdwds									20		46	43							109
Treed Bog	142																		142
Upland Hdwds									1									62	63
Water	1																		1
<b>Total</b>	<b>247</b>	<b>71</b>	<b>172</b>		<b>25</b>	<b>24</b>	<b>334</b>		<b>154</b>	<b>88</b>	<b>116</b>	<b>43</b>	<b>149</b>					<b>62</b>	<b>1485</b>

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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: 26

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	554																										554	
S Black Spruce		86																										86
V Bog or Marsh			63																									63
C Cedar				250																								250
G Grass					18																							18
L LowInd Brush									23																			23
Q Mx Swmp Cnfr												117																117
F Spruce Fir																			59									59
E Swamp Hrdwds																				109								109
D Treed Bog																						142						142
M Upland Hdwds																								63				63
Z Water																									1			1
<b>Total</b>	<b>554</b>	<b>86</b>	<b>63</b>	<b>250</b>	<b>18</b>				<b>23</b>			<b>117</b>						<b>59</b>	<b>109</b>		<b>142</b>			<b>63</b>	<b>1</b>		<b>1485</b>	

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 26

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9644 Cds	Hardwood	3413 Cds
Hardwood	42 Mbf	Hardwood	8 Mbf
Softwood	4538 Cds	Softwood	304 Cds
Softwood	43 Mbf	Sum CutVol	3733 Cds
Sum TotVol	14352 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	191
1485			

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 26**

**Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
<b>2</b>	<b>M6</b>	11		59	northern hardwood	unevenaged	selection	2	natural regeneration	stand with fdf potential
<p>comnts Fmd : Larger trees have canker and low forks. Good pole-size timber quality with good potential. Some good den trees here too. Ready to thin. Some small islands of hardwood to include nearby but not mapped separately at this time. 80% sugar and 20% basswood approximately with some other species. Surrounding aspen has good sugar maple regeneration but there is little in stand at this time. We would leave den trees and other wildlife values in trees during harvest. Also all existing tree sizes would be represented after the harvest.</p> <p>Wld : Leave at least 50% of the overstory white spruce. Attempt to maximize number of cherry and yellow birch retained. Leave all cedar, hemlock, and white pine. Underplant hemlock and/or white pine.</p>										
<b>4</b>	<b>M6</b>	10		59	northern hardwood	unevenaged	selection	2	natural regeneration	stand with fdf potential
<p>comnts Fmd : Larger trees have canker and low forks. Good pole-size timber quality with good potential. Some good den trees here too. Ready to thin. Some small islands of hardwood to include nearby but not mapped separately at this time. 80% sugar and 10% red maple approximately with some other species 10%. Surrounding aspen has good sugar maple regeneration but there is little in stand at this time. Some areas have thick fir understory. We would leave den trees and other trees with wildlife values. Also all existing tree sizes would be represented after the harvest.</p> <p>Wld : Retain at least 50% of the overstory white spruce in stand. Favor retention and regeneration of cherry and yellow birch. Leave all cedar, hemlock, and white pine.</p>										
<b>8</b>	<b>A6</b>	51	51	80	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : A6, 8-12" dbh 5-stick well-stocked. Some mortality from past blowdowns mostly but overall ok. 1-2" sugar maple understory thick in spots. Scattered hardwood and softwood in stand. Recommend cut this stand so can thin hardwood north at the same time and split the other stands 7,9 for next cycle. If possible, retain some overstory white birch. Between st. 8 and 10 leave enough trees so stands are not contiguous for SFI greenup requirements, or combine into one sale.</p> <p>Wld : Attempt to make western edge of clearcut irregular or wavy to increase ecotone complexity. Leave all elm, cherry and white spruce.</p>										
<b>10</b>	<b>A6</b>	84	51	80	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Similar to st 7,8,9 well-stocked aspen mature with thick 2" dbh sugar maple under. Some mortality and gaps but not bad. Recommend cutting this stand and leaving north for better age/class distribution. Leave uncut stand west of walking trail for retention and other considerations.(See wildlife comments)</p> <p>Wld : Do not harvest any trees to the west of the furthest west portion of the hunter walking trail. This will provide for continued partial shade on the hunter walking trail, some over-mature aspen for budding purposes and cavity development, conifer cover, and tree species/size-class diversity. There will be excellent cavity development in the hardwoods retained. Incorporate some mature aspen into red line boundary along the margin of stand 11 (C6). Leave all white spruce, elm, and cherry. HUNTER WALKING TRAIL: No vehicles are traversing the trail in stand 10. The propogated forage here is incredible with regards to height, density, and vigor. The majority of the cover is sweet pea. The seed pods on these plants are extremely numerous, and will provide excellent food to numerous species. Grasses, clovers, and birdsfoot trefoil are also present.</p>										
<b>16</b>	<b>M6</b>	21		59	northern hardwood	unevenaged	selection	2	planting	stand with fdf potential
<p>comnts Fmd : Access may be difficult. Need to cross stream and go across private. Good timber potential here. Low forks, canker etc to come out. Good sugar maple south fades to poorer red maple type north along swamp. Mostly even age but some larger old residual 16-24" dbh with some good den trees among them. Not many log trees however. We would leave some of these larger trees as well as den trees in any thinning. Wildlife div. may underplant hemlock or white pine after sale for stand diversisty.</p> <p>Wld : Strive for maximum tree species diversity, size-class diversity, and stocking diversity. Retain at least 50% of the overstory white spruce. Leave some canopy aspen. Underplant hemlock and/or white pine.</p>										
<b>403</b>	<b>G0</b>	4		80	grass	nonstocked		0	opening maintenance	
<p>comnts Fmd :</p> <p>Wld : Mixed wild grasses/forbs - some small patches of clover. Moderate to good quality forage. Level site but too rough for tractor work. Will want to maintain this opening over the long-term. Approximately 70% openland. White spruce saplings (4'-6' tall) colonizing stand to south. Clumps of 4'-6' tall cherry. Clone of balsam poplar next to road. Stand also extends north of the two-track. Use chainsaw to remove white spruce poles and saplings, as well as other woody invaders. Leave fringe of spruce along edge of stand. Girdle some of the larger spruce and aspen for snag/cavity development.</p>										

**Total Acres..... 181**

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 26**

**Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
1	M6	14		57	northern hardwood	unevenaged	selection	2	natural regeneration	stand with fdf potential

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : A mix of about 60% sugar and 40% red maple. Some aspen, fir and other species. Generally poor timber quality but good potential for quality improvement is here. North of stand has been thinned but is private property. Possible access from south but would have to build a swamp road and freeze. We would save den trees and other wildlife trees and all existing tree sizes would be represented after thinning

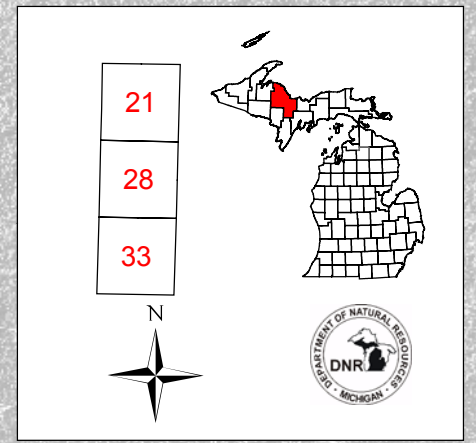
Wld : Retain at least 50% of the overstory white spruce. Attempt to leave most cherry and yellow birch. Retain all cedar, hemlock, and white pine. Leave some scattered overstory aspen. Underplant hemlock and/or white pine.

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**Total Acres..... 14**

# Field Map

Compartment 26  
 T44N, R24W, Sec. 21, 28, 33  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2008  
 Acres: 1,485 GIS Calculated  
 Stand Examiner: Jerry Mohlman  
 Map Revised: 9/13/2006  
 Map Phase: Pre-review



## Legend

- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- Trails
- Water Features
- Hiking Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 021 - Opening Maintenance/Hand Tools
- 148 - Final Harvest/Natural Regeneration/Other
- 811 - Selection/Planting/Hand Tools
- 848 - Selection/Natural Regeneration/Other

