



**GWINN FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 258 ENTRY YEAR: 2008**

**Compartment Acreage: 1281 GIS acres County: 52**

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**Revision Date: 07/24/2006**

**Stand Examiner:** Warren J Heikkila

**Legal Description:** T45N, R27W, Sec. 02 & 11 .

**Management Goals:** For the 10 yr. period beginning in 2008, we will strive to perpetuate or increase the component of oak, birch, and dry, mesic conifers in a non-plantation setting, where they now occur. This is perhaps one of the compartments on the Gwinn Unit which has the greatest occurrence of northern red oak. Somewhat of an epicenter for oak.

**Soils and topography:** Ranging from relatively level swamp conifer, tag alder, and bog/ marshlands or creek bottoms, to upland which is only rolling to moderately hilly. Ridges and ravines are distinguishable in parts of the compartment.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State ownership here is quite well blocked in with other State land on all except the west side. The Michigan Northwoods Club, a rather large private hunting club, borders State on the west. Development here (other than the Hemmings Lake Road) is essentially non-existent. Production of forest products along with low key recreational activities such as hunting, fishing, trapping, mushroom picking, and snowmobiling make up the land uses here.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The abundance of northern red oak in this area is perhaps the primary unique natural feature here.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):**

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

**Watershed and Fisheries Considerations:** Only one small beaver pond, headwaters of a creek, is located in the northeast corner of this compartment.

**Wildlife Habitat Considerations: Compartment:** This compartment is located southwest of Palmer. The diversity in cover-types attracts a good variety of wildlife and offers some decent hunting and wildlife viewing opportunities. There are roads and trails through this compartment which offers hunters access for upland bird and deer hunting opportunities. This compartment is one of the few for this unit with good mast producing oak stands which attract a number of deer, bear, and grouse in years when acorns are plentiful.

**Mineral Resource and Development Concerns and/or Restrictions:**

**Compartment 258** Sections 2 and 11, T45N-R27W, Marquette County

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used

as dimension stone. Gravel pits are not located in the area, but potential should to be good. Abandoned iron mines are located ten miles to the north. There were previous metallic leases in this area. There is no economic oil and gas production in the UP.

**Vehicle Access:** The Hemmings Lake Road, a Dept. maintained road built around 1969, is the main access road in this compartment. It is a through road connecting Co.Rd. 565 on the east to Co.Rd. CG and 581 on the west. Branching off of this road are poor dirt, two track roads accessing the compartment for logging and recreation.

**Survey Needs:** No survey needs for 2008.

**Recreational Facilities and Opportunities:** Only low key recreational opportunities for activities such as hunting, fishing, trapping, mushroom picking, snowmobiling, etc. exist in this compartment.

**Fire Protection:** This compartment is included within the “581 Zone Dispatch” area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and Crystal Falls Mgt. Units, dependent upon the severity of forecast burning conditions for a specific day. Areas of jack/red pine cover types with the encroachment of recreational seasonal and/or residential dwellings have warranted this pre-planning. Mutual aide agreements with local volunteer fire departments also provide critical fire suppression response, especially in the area of structural fire and/or protection, and evacuations.

#### **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: 258

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		135	232	78	51				63	58									617
Black Spruce					5		2	4	26										37
Bog or Marsh	1																		1
Cedar													15						15
Grass	9	3	8																20
Jack Pine				7					15										22
Marsh	4																		4
Mx Swmp Cnfr									7	5		1							13
Oak										103								343	446
Red Pine						39			5									15	59
Upland Hdwds																		24	24
Water	5																		5
White Pine			6		4													8	18
<b>Total</b>	<b>19</b>	<b>138</b>	<b>246</b>	<b>85</b>	<b>60</b>	<b>39</b>	<b>2</b>	<b>4</b>	<b>116</b>	<b>166</b>		<b>1</b>	<b>15</b>					<b>390</b>	<b>1281</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: 258

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	617																										617
S Black Spruce		37																									37
V Bog or Marsh			1																								1
C Cedar				15																							15
G Grass					20																						20
J Jack Pine							7																			15	22
N Marsh											4																4
Q Mx Swmp Cnfr												13															13
O Oak														446													446
R Red Pine																59											59
M Upland Hdwds																								24			24
Z Water																									5		5
W White Pine																										18	18
<b>Total</b>	617	37	1	15	20		7				4	13		446		59								24	5	33	1281

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **258**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12628 Cds	Hardwood	3347 Cds
Hardwood	1006 Mbf	Softwood	605 Cds
Softwood	2479 Cds	Softwood	23 Mbf
Softwood	329 Mbf	Sum CutVol	3998 Cds
Sum TotVol	17777 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	281
1281			

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 258**    **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>6</b>	<b>J6</b>	15	77	58	white pine	high risk	delayed removal	1		
<p>comnts Fmd : Incorporate aesthetic considerations into sale especially near the pond. South end of stand is a small spruce swamp. Beaver have been cutting in this stand recently (eg. red maple). Note: At our mini-review held on 8/31/06, Wildlife would like only the jack pine to be cut, leaving all other species for diversity and aesthetics. Changing the MO to white pine since natural succession here already seems to be headed that way.</p> <p>Wld : Located in the NENE of Sec 2, west of beaver pond.</p>										
<b>9</b>	<b>R6</b>	39	43	50	red pine	immature	thinning	1		
<p>comnts Fmd : Red pine was machine planted in Sept 1963 using 3-0 stock dipped &amp; sprayed with Aldrin. Planting form #110. Also extends north into Sec 35. A survival count made in July 1969 found 455 red pine per acre. Thin this stand in 2008 with mechanized harvesting kept in mind when marking.</p> <p>Wld : Located mostly in the NWNE of Sec 2.</p>										
<b>13</b>	<b>O6</b>	101		60	oak	unevenaged	shelterwood-prep	2		
<p>comnts Fmd : In 2008, salvage cut the aspen, birch, and maple. I would like to recommend clearcutting a few patches (maybe each an acre in size) to determine the success of oak stump sprout regeneration by this patch cut method. In the A3 cover types in this compartment, oak stump sprouts are very evident and numerous. Oak seedling regeneration is virtually lacking in any of the past cuttings. Thus it seems we are going to have to rely on stump sprouts to replace our oak resource here.</p> <p>Wld : Located in the SW1/4 of Sec 2, and N1/2NW of Sec 11.</p>										
<b>15</b>	<b>A5</b>	6	84	50	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Leave oak, cherry, red &amp; white pine. Cut with stand 13.</p> <p>Wld : Located in the NWNW of Sec 11.</p>										
<b>28</b>	<b>R8</b>	8		60	red pine	unevenaged	thinning	2		
<p>comnts Fmd : In 2008, thin as needed to improve spacing of residual pine and open the crown, and harvest any high risk trees, to be combined with the sale of stand 35. Per our mini-review held on 8/31/06, Wildlife would like some large birch potential wildlife/den trees left in this stand.</p> <p>Wld : Located in the center of the SW1/4 of Sec 11.</p>										
<b>35</b>	<b>A6</b>	63	72	68	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : We will leave all oak &amp; cherry, and most if not all of red/white pine in this stand. Recommend a shortwood operation to protect as much white pine regeneration as practical, esp. in stands 28 &amp; 36, which will be treated with this stand. Terrain actually affords quite a good logging chance here, good access on existing roads. We will also leave potential den trees and a few birch seed trees for biodiversity.</p> <p>Wld : Located in the S1/2SW of Sec 11.</p>										
<b>36</b>	<b>W6</b>	5		60	white pine	unevenaged	improvement	1		
<p>comnts Fmd : Stand has a variety of size classes of white pine, much of it younger &amp; still seeding in. Merely cut out the aspen, maple etc in 2008. Use a shortwood operation. Leave all oak &amp; also potential den trees.</p> <p>Wld : Located in the SESW of Sec 11.</p>										
<b>37</b>	<b>A6</b>	9	85	60	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Stand itself is quite level. A real mixture of species so it's a toss-up what to feature. We will undoubtedly get a mixed stand after cutting as well. An acre or two of red pine sawlog inclusion exists on the south end of stand and this should be marked for cutting. Save any oak present. Best access appears to be from the north through stand 38 &amp; 11 to the existing trail road. A skid road was built along the edge of the swamp when stand 38 was cut. Aspen is large, overmature type trees.</p> <p>Wld : Located in the NWNE of Sec 11.</p>										
<b>41</b>	<b>A6</b>	3	80	60	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Leave the oak, cherry, red &amp; white pine. Could access stand #6 though this stand for sale purposes.</p> <p>Wld : Located in the NENE of Sec 2.</p>										
<b>42</b>	<b>R9</b>	7		65	red pine	unevenaged	thinning	2		
<p>comnts Fmd : In 2008 when stand 13 is cut, salvage any high risk trees in this stand at the same time, and to improve the spacing of residual trees.</p> <p>Wld : Located in the NWNW of Sec 11.</p>										
<b>49</b>	<b>A6</b>	25	83	64	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Stand borders red pine plantation on the east. Leave all oak.</p> <p>Wld : Located in the W1/2NE &amp; NENW of Sec 2.</p>										

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 258**

**Entry Year: 2008**

<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FDF Status</b>
<b>Total Acres.....</b>		<b>281</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 258**

**Entry Year: 2008**

<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
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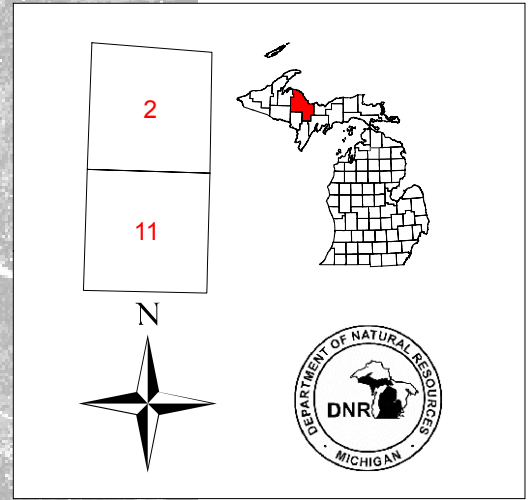
TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 258  
 T45N, R27W, Sec. 2, 11  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2008  
 Acres: 1,281 GIS Calculated  
 Stand Examiner: Warren Heikkila  
 Map Revised: 9/14/2006  
 Map Phase: Pre-review



## Legend

- Miris Corners
- - - Poor Dirt Roads
- ▭ Stand Boundary
- ▨ Biodiversity/Old Growth Areas
- ▧ 100 - Final Harvest
- ▩ 400 - Thinning
- 600 - Delayed Removal
- 700 - Shelterwood-prep
- ▬ 900 - Improvement

