



**GWINN FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 240 ENTRY YEAR: 2007**

**Compartment GIS acres 1288      County: 52 Marquette**

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**Revision Date: 08/19/2005**

**Stand Examiner:** Warren J Heikkila

**Legal Description:** T45N, R28W, Sec. 29 and 32 .

**Management Goals:** For the 10 yr. period beginning in 2007, 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. Protection of the water quality of the Flat Rock Creek is also a priority concern here.

**Soils and topography:** Ranging from relatively level creek bottoms, swamp conifer, tag alder, and bog/marshlands, to upland which is only rolling to slightly hilly. Generally good logging chance throughout with exception of need for winter frozen road access at times.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State ownership here is generally blocked in quite well with only slight intermixing with relatively small private forest holdings, mostly non-industrial private owners with recreational objectives. Development is very limited with a few seasonal cottages or hunting camps widely distributed. The ELF submarine communication system crosses this compartment east-west, however it is being dismantled presently in 2005 (it was established around 1985). Production of forest products along with low key recreational activities such as hunting, mushroom & berry picking, trapping, fishing, and snowmobiling make up the land uses here.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The Flat Rock Creek and it's lesser tributaries make up the unique natural features here.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** The "pine days" logging left behind in addition to a legacy of pine stumps, a network of old railroad grades and spurs interconnecting to lead to the mills of the Escanaba/ Menominee area. "Ike" Stephenson was the foremost figure in the pine logging here and a private purchase of cutover land from his estate in the 1920's became the present day Michigan Northwoods Club. Much of the present day State land was undoubtedly logged by his crews also.

**Special Management Designations or Considerations:** Potential Biodiversity Management areas consists of stands 1, 12, 15, 16, 20, 22, 31, 34, 35, 46, 47, 52, 56, 57, 63, 72, 404, and 408.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

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

### **Compartment 240** Sections 29 and 32, T45N-R28W, Marquette County

Surface sediments consist of an end moraine of coarse-textured till and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrop below the glacial drift. This rock could be used as dimension stone. A rock quarry (?) is located 1/2 mile away. Gravel pits are not located in this area, but potential should be good. The abandoned Republic iron mine is located ten miles to the northwest. Section 29 was previously leased and active leases are located four miles to the north. There is no economic oil and gas production in the UP.

**Vehicle Access:** County Road CAA (the Flat Rock Road) is the primary access from both the north and southwest, leading eastward to Co.Rd. 581 and US-41, or westward via the Floodwood road to M-95. Interior smaller two track, narrow roads (Camp Hope Road) complete the access network. Most of these are in need of gravel and upgrading when budgets allow. A steel I-beam bridge constructed by the Dept. is in place over the Flat Rock Creek in the SW1/4 of Sec 33, just east of this compartment. Temporary roads are established for timber removal, but these are bermed, and often seeded for wildlife, or obliterated following timber sale completion.

**Survey Needs:** No survey needs are pressing for 2007.

**Recreational Facilities and Opportunities:** Only low key recreational opportunities for activities such as hunting, trapping, fishing, snowmobiling, mushroom & berry picking, 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 aid 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 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: 240

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen		92	275	105	88				111										671
Black Spruce								5											5
Cedar														47					47
Grass	7	4	22	9															42
LowInd Brush	213																		213
Mx Swmp Cnfr								64	95									11	170
Paper Birch	2							19											21
Spruce Fir		38				7		10	9	41	8								113
Water	6																		6
<b>Total</b>	<b>228</b>	<b>134</b>	<b>297</b>	<b>114</b>	<b>88</b>	<b>7</b>		<b>98</b>	<b>215</b>	<b>41</b>	<b>8</b>			<b>47</b>				<b>11</b>	<b>1288</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: 240

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	671																										671
S Black Spruce		5																									5
C Cedar				47																							47
G Grass					42																						42
L Lowlnd Brush									213																		213
Q Mx Swmp Cnfr												170															170
B Paper Birch															21												21
F Spruce Fir																			113								113
Z Water																									6	6	
Total	671	5		47	42				213			170			21				113						6	1288	

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **240**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5237 Cds	Hardwood	2529 Cds
Softwood	5710 Cds	Softwood	1729 Cds
Softwood	4 Mbf	Sum CutVol	4258 Cds
Sum TotVol	10955 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
1288		164	

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 240 Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>5</b>	<b>A6</b>	100	77	65	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Stand is high risk, overmature large diameter aspen. Spruce budworm has killed much of the fir in the past and advance regeneration up to 3 inch dbh, 20+ ft tall has invaded the stand in the open areas. Much of the area is interspersed with lowland (balm, ash, lowland birch, &amp; alder) and even the high ground is only a few feet higher in elevation. Thus we may possibly go with winter logging here to protect the site. We will stress saving as much of the advance spruce/fir regeneration as possible for diversity, even though the MO is aspen. Possibly access from the north or west side.</p> <p>Wld : Located in the SE1/4 of Sec 29.</p>										
<b>6</b>	<b>F6</b>	8	88	53	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1		
<p>comnts Fmd : Harvest with stand 5 in 2007. Same access. Since stand is a narrow peninsula extending into a swamp, adjacent conifers will provide an adequate seed source.</p> <p>Wld : Located in the SWSE of Sec 29 and NWNE of Sec 32.</p>										
<b>21</b>	<b>F6</b>	32	81	70	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1		
<p>comnts Fmd : Stand is a mix of aspen, balm, and fir; even after cutting, this mix will remain. Aspen will probably dominate in the open areas and fir will dominate where an existing understory is already present. Site is semi-swampy in places and we may want to winter log this to protect the site. May want to use a shortwood operation to protect spruce/fir regeneration. Thus a mixed stand of fir, aspen, and balm is an acceptable outcome for this stand. Per our mini-review held on 9/14/05, Wildlife desires to enhance biodiversity here by leaving some seed trees (birch, spruce, pine, etc) and protecting advance conifer regeneration also.</p> <p>Wld : Located in the N1/2SW &amp; S1/2NW, south of ELF row.</p>										
<b>53</b>	<b>F6</b>	9	81	70	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1		
<p>comnts Fmd : Very nearly a tossup whether this is an aspen or "F" type, but the resulting stand after cutting will also be a mix of both due to understory of "F". Try to preserve as much as possible for diversity and dry mesic conifer goals. Leave red &amp; white pine.</p> <p>Wld : Located in the SENW of Sec 32, north of ELF row.</p>										
<b>64</b>	<b>F6</b>	9	71	56	spruce-fir (uplands- including upland black spruce)	high risk	final harvest	1		
<p>comnts Fmd : May need to winter cut due to swampy access. Stand itself is high ground. More birch in southwest end, and fir regen is heavier in east end. This cut should serve to release the existing fir understory.</p> <p>Wld : Located in the SWSW of Sec 29, west of Flat Rock Creek.</p>										
<b>76</b>	<b>A6</b>	6	73	69	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : In 1987, this stand was included in a bird transect research study looking into the effects of Project ELF (established 1985), and was thus reserved. In 1997, this stand was not cut per the request of Wildlife to retain some mature aspen. Thus in 2007, we have a high risk 75 yr old stand of large diameter overmature aspen. We recommend a harvest to regenerate this stand. We will leave all oak.</p> <p>Wld : Located in the extreme northwest of Sec 29. Section corner is in a small swamp, with a steep south facing hillside to the north a chain or so.</p>										
<b>Total Acres.....</b>		<b>164</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 240**    Entry Year: 2007

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<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>
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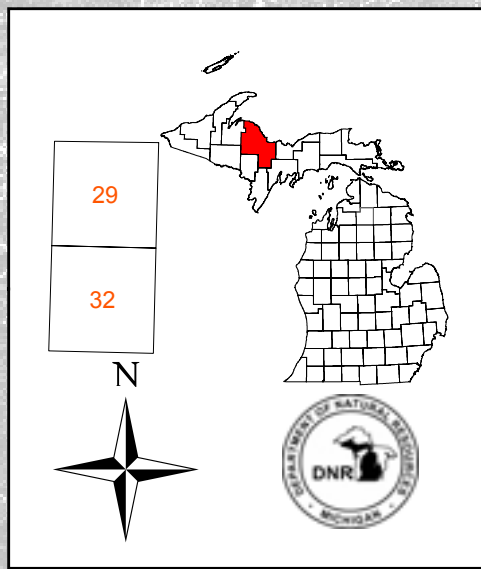
TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 240  
 T45N, R28W, Sec. 29, 32  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2007  
 Acres: 1,288 GIS Calculated  
 Stand Examiner: Warren Heikkila  
 Map Revised: 9/19/2005  
 Map Phase: Pre-review



## Legend

- Miris Corners
- - - Poor Dirt Roads
- ▭ Stand Boundary
- ▨ Biodiversity/Old growth area
- ▩ 100 - Final harvest
- Name County Gravel Roads
- Name County Dirt Roads
- Name Water Features

