



**GWINN FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 220 ENTRY YEAR: 2007**

**Compartment GIS acres 1402      County: 52 Marquette**

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

**Stand Examiner:** Warren J Heikkila

**Legal Description:** T46N, R28W, Sec. 06, 07 and 08 .

**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 Black River 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 moderately hilly with an abundance of rock however. Rock outcropping is present also.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State ownership here is intermixed with relatively small private forest holdings, both corporate and non-industrial private owners and both recreational and residential. Development is very limited with a few seasonal cottages or hunting camps widely distributed. A power transmission line crosses the compartment east-west. Production of forest products along with low key recreational activities such as hunting, fishing, trapping, and snowmobiling make up the land uses here.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The Black River and it's tributaries comprise the unique natural features of this compartment. A small logjam dating back to when the river was used for driving logs still exists (though downstream from this compartment) and now provides shelter for resident brook trout.

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

**Special Management Designations or Considerations:** Potential Biodiversity Management areas consists of stands 17, 20, 40, 41, 42, 45, 46, 47, 52, 53, 54, 69, 70, 71, 72, 81, 85, and 89.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

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

**Compartment 220** Sections 6 – 8, T46N-R28W, Marquette County

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a dimension stone. Gravel pits are not located in the area, but there may be some potential. The abandoned

Republic iron mine is located five miles to the west. This compartment has not been leased for metallic exploration recently, but active leases are located one mile to the southwest. There is no economic oil and gas production in the UP.

**Vehicle Access:** County Roads 478 (paved), CO, and CH provide access to and from US-41, M-95, and Co.Rd.581. Generally narrow, two track, dirt roads provide interior access within the compartment. An easement exists to ensure access via the S1/2SW of Sec 5 through corporate ownership, and work was done by Dept personnel from the Gwinn office to improve this road, including placement of a railroad car bridge across the Black River in the SWNW of Sec 8. Also an easement exists to cross the privately owned SWSW of Sec 8, and wood was trucked northward across a winter road at this site. Long range plans at the time were to connect a road system to Co.Rd FHH and ultimately Co.Rd FF to the southwest. This is no longer a valid goal.

**Survey Needs:** A survey request has been made to establish registered corners in Sec 8 at coded locations: D3, D4, E4, and interior locations #4, 5, 8, & 12. Also replacement of corner monumentation at location C5.

**Recreational Facilities and Opportunities:** Only low key recreational opportunities for activities such as hunting, fishing, trapping, 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 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: 220

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		74	42	132				20											268
Black Spruce		3		8	1	18	4		25		13								72
Bog or Marsh	5																		5
Grass	4																		4
Jack Pine			13					5											18
LowInd Brush	195																		195
Red Pine																		21	21
Spruce Fir		227		6	4		50	39		18								1	345
Tamarack											9							64	73
Treed Bog	210																		210
Upland Hdwds																		90	90
Water	6																		6
White Pine																		95	95
<b>Total</b>	<b>420</b>	<b>304</b>	<b>55</b>	<b>146</b>	<b>5</b>	<b>18</b>	<b>54</b>	<b>64</b>	<b>25</b>	<b>18</b>	<b>22</b>							<b>271</b>	<b>1402</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: 220

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	239																		29								268
S Black Spruce		71										1															72
V Bog or Marsh			5																								5
G Grass					4																						4
J Jack Pine							18																				18
L LowInd Brush									195																		195
R Red Pine																21											21
F Spruce Fir																			345								345
T Tamarack																						73					73
D Treed Bog																							210				210
M Upland Hdwds																										90	90
Z Water																									6	6	
W White Pine																										95	95
<b>Total</b>	<b>239</b>	<b>71</b>	<b>5</b>		<b>4</b>		<b>18</b>		<b>195</b>			<b>1</b>				<b>21</b>			<b>374</b>		<b>73</b>	<b>210</b>			<b>6</b>	<b>185</b>	<b>1402</b>

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **220**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3518 Cds	Hardwood	2209 Cds
Hardwood	18 Mbf	Softwood	429 Cds
Softwood	2726 Cds	Sum CutVol	2638 Cds
Softwood	1304 Mbf		
Sum TotVol	8888 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	128
1402			

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 220 Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
<b>1</b>	<b>A6</b>	15	64	55	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Steeper slope adjacent to CoRd. Leave most of pine for aesthetics as well as some birch/maple near Co Rd. Mead land adjacent to the north has been clearcut &amp; planted to red pine. NE corner of Sec 6 is a new County remonumentation corner set in 2002, as is the N1/4 corner of Sec 6.</p> <p>Wld : Located in the N1/2NE of Sec 6, north of CoRd 478.</p>										
<b>3</b>	<b>S6</b>	6	89	35	black spruce-swamp	mature	seed tree	1		
<p>comnts Fmd : Some windthrow present from 7/21/02 storm. Site is semi-high ground, not wet. Still need to winter log though. Adequate seed source needs to be left. Jim Carey cut the adjacent pvt land to the east in the last few yrs and very little regeneration is present yet.</p> <p>Wld : Located in the NENE of Sec 6, north of powerline.</p>										
<b>18</b>	<b>M6</b>	90		65	white pine	unevenaged	seed tree	1		
<p>comnts Fmd : Stand was badly damaged (esp. the pine) and salvaged in winter of 2002-03 (TS#128-02-01- Minerick Logging, Inc., a scale sale) as a result of the windstorm of 7\21\2002. Van Riper State Park work crew cut marked pine here during the winters of 1984-86 for sawing into picnic table boards, etc., permits # 15-84-02, #19-85-02, &amp; #01-86-02. If the pine windthrow of 7/21/02 had not occurred, this stand would be cover type W9 at present. We wish to manage this stand for pine, but currently, red maple is the predominant specie. Our 2007 cutting will harvest a minimal amount of pine (only high risk trees) and the residual stand should be a cover type W8 at the low end of the stocking level (40 sq.ft/A). Most pine is located in the west half of this stand. Stand is very rocky and somewhat hilly. It should be cut when ground is snowfree to provide some scarification for pine seeding. Understory in the northern portion of the stand is sugar maple saplings (1 to 3 " dbh) with some fir. In the southern portion of stand, the understory is more fir.</p> <p>Wld : Located in the N1/2NW of Sec 8.</p>										
<b>28</b>	<b>A6</b>	2	64	55	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Leave most of pine for aesthetics as well as some birch/maple near Co Rd. Mead land adjacent to the north has been clearcut &amp; planted to red pine. N1/4 corner of Sec 6 is a new County remonumentation corner set in 2002.</p> <p>Wld : Located in the NWNE of Sec 6, north of CoRd 478.</p>										
<b>29</b>	<b>A5</b>	3	64	55	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Considerable windthrow damage here from 7/21/02 storm. Leave most of pine for aesthetics as well as some birch/maple near Co Rd. Mead land adjacent to the north has been clearcut &amp; planted to red pine. NE corner of Sec 6 is a new County remonumentation corner set in 2002. Private driveway leading to a camp southeast of the Sec corner crosses onto State slightly I believe.</p> <p>Wld : Located in the N1/2NE of Sec 6, north of CoRd 478.</p>										
<b>78</b>	<b>J6</b>	5	61	64	jack pine	mature	final harvest	2		
<p>comnts Fmd : Stand is accessible from the north. The 7/21/02 windstorm hit here also, &amp; the largest and oldest trees were hardest hit. We should final harvest and regenerate this stand at this time. It is currently a mixture of many species, and is somewhat unevenaged. We should simply manage this type in place for whatever regenerates naturally (a mix of upland conifer &amp; aspen). Leave red &amp; white pine as much as possible. There is a wide buffer of tag alder between this stand and the river but leave appropriate species on east edge for aesthetics.</p> <p>Wld : Located in the northwest corner of the SWSE of Sec 8.</p>										
<b>79</b>	<b>S5</b>	6	92	28	black spruce-swamp	mature	seed tree	2		
<p>comnts Fmd : In 2007 we will harvest a narrow strip 1 to 2 chains wide along the north edge to be sold with stand 78 adjacent to this. This will ensure regeneration of spruce/tamarack/fir here and the fringes bordering upland have the largest timber.</p> <p>Wld : Located in the SWSE of Sec 8.</p>										
<b>97</b>	<b>S6</b>	1	89	35	black spruce-swamp	mature	seed tree	1		
<p>comnts Fmd : Some windthrow present from 7/21/02 storm. Site is semi-high ground, not wet.</p> <p>Wld : Located in the NENE of Sec 6, adjacent to Co.Rd. 478 on the south side.</p>										
<b>Total Acres.....</b>		<b>128</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 220**

**Entry Year: 2007**

<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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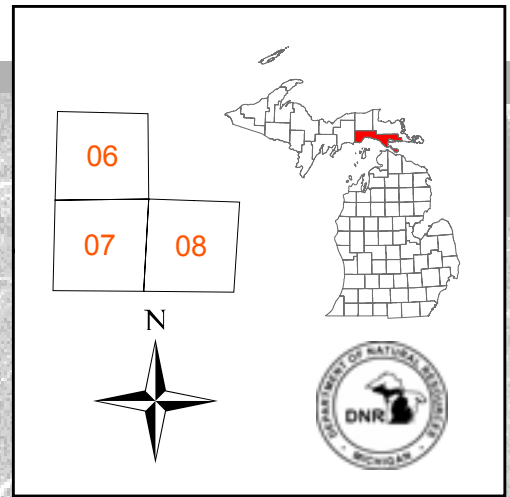
TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 220  
 T46N, R28W, Sec. 6-8  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2007  
 Acres: 1,402 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
- 200 - Seed tree
- Name** County Paved Roads
- Name** Water Features

