



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 278 ENTRY YEAR: 2008

Compartment Acreage: 1402 GIS acres County: 52

Revision Date: 07/24/2006

Stand Examiner: Warren J Heikkila

Legal Description: T46N, R26W, Sec. 31, 32, 33, 34, and 35 .

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. White pine, one of the mesic conifers, is prevalent in many of the stands in this compartment, esp. in Sec 34 & 35, and is likely a climax species there. Protection of the water quality of the Middle Branch of the Escanaba River and it's tributaries 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. The majority of the acreage can be logged, some in winter only, and some if permission to cross private land is obtained.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership here is intermixed with both large corporate owners (Mining Co.) and also relatively small private forest holdings of non-industrial private owners and both recreational and residential. Development is very limited with a few seasonal cottages plus year- round homes generally widely distributed along the main travel routes. A power transmission line crosses the compartment north-south. Production of forest products along with low key recreational activities such as hunting, fishing, berry picking, trapping, and canoeing make up the land uses here.

Unique, Natural Features (include only non-site specific and non-sensitive information): The Middle Branch of the Escanaba River and it's tributaries (eg. Floppers Creek) comprise the unique natural features of this compartment. Nearly a mile & a half of river frontage with numerous scenic rapids & pools add to the unique aesthetic values 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:

Wildlife Habitat Considerations: Compartment: 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 small game, upland bird, and deer hunting opportunities. This compartment is one of the few for this unit with very large mature white pine and red pine in stands near Green Creek as well as good mast producing oak stands which attract a number of deer,

bear, and grouse in years when acorns are plentiful. Strive for the best possible age class diversity in aspen stands.

Mineral Resource and Development Concerns and/or Restrictions:

Compartment 278 Sections 31 - 35, T46N-R26W, Marquette County

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and postglacial alluvium and coarse-textured 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 dimension stone. A gravel pit is located in Section 26 and there should be some potential. The abandoned Princeton iron mine is located three miles to the southeast. Section 32 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: A mile of paved, good quality two lane M-35, a mile of lesser quality paved Co.Rd. MU, a mile of gravel Co.Rd. 565, and several miles of generally narrow, two track poor dirt roads (some are public & designated Co.Rds. such as “Green Creek Rd MMK”), provide interior access to and within the compartment.

Survey Needs: A survey request has been made to establish registered corners in Sec 35 at coded locations: J12, K12, and interior locations #1, 2, 4, 7, 8, 9, 12, 14, & 18. Survey corners in Sec 33 between State and Mining Company lands should be a long term goal but since logging was recently done on Mining Co. lands, property line location should thus be feasible with existing corners for 2008.

Recreational Facilities and Opportunities: Only low key recreational opportunities for activities such as hunting, fishing, berry picking, trapping, etc. exist in this compartment. However, a rather primitive but ample boat launching site to access the Escanaba River exists along the east side of M-35 about a mile & a quarter south of the compartment.

Fire Protection: Sections 34 & 35 of this compartment are included within the “Sands Zone Dispatch” area which provides for a pre-planned dispatch of specified fire equipment from the Gwinn and Ishpeming Field Offices , 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. The remainder of the compartment (Sections 31, 32, & 33) are within the normal fire protection & response area of the Gwinn Mgt. Unit.

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: 278

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		116	51	179	63			18	45	28									500
Black Spruce									113		33							17	163
Bog or Marsh	4																		4
Grass		6	9																15
Jack Pine			112						18	57									187
LowInd Brush	45																		45
Non Stocked	6																		6
Red Pine		64																	64
Treed Bog	5																		5
Upland Hdwds									43										43
Water	16																		16
White Pine								10										344	354
Total	76	186	172	179	63			28	219	85	33							361	1402

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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: 278

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	500																										500	
S Black Spruce		163																										163
V Bog or Marsh			4																									4
G Grass					15																							15
J Jack Pine							150									37												187
L LowInd Brush									45																			45
X Non Stocked													6															6
R Red Pine																64												64
D Treed Bog																							5					5
M Upland Hdwds	43																											43
Z Water																									16			16
W White Pine																										354	354	
Total	543	163	4		15		150		45				6			101						5			16	354	1402	

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **278**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8741 Cds	Hardwood	3026 Cds
Hardwood	27 Mbf	Softwood	969 Cds
Softwood	3860 Cds	Sum CutVol	3995 Cds
Softwood	1694 Mbf		
Sum TotVol	16043 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	218
1402			

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 278 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
11	J5	37	80	62	red pine	high risk	final harvest	1	planting	
<p>comnts Fmd : High risk stand- old jack pine. Gwinn stand to the south also has a mgt objective of red pine. Stand on Gwinn area that is adjacent to stand 11 and on the west side of trail road has recently been cut and planted to red pine.</p> <p>Wld : Located in the SESW of Sec 32 for the most part.</p>										
18	A6	45	73	58	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Access would be off of the Green Creek Rd (CoRd MMK) off of M-35, then across Mining Co. land to reach State land (merchantability 7 due to access across private land). An exchange was made with the Mining Co. in the past where we retained only those parcels fronting on the river. This stand itself is a viable logging chance, some rock outcropping & alder lowland, but fairly level or rolling for the most part. Oak is a component of the stand, mostly in the eastern end. Leave all oak & most of the pine. The exact boundary between stand 57 (buffer along the river) and this stand should be determined by terrain (slope & BMP safeguards), aesthetics (some area lacks aspen & are heavy to young white pine), etc. It is quite evident in most places.</p> <p>Wld : Located in that part of Sec 33 lying north of the Escanaba River, & a little into Sec 32. Cut no white pine, red pine, cherry, or oak. Retain examples of all associate species to main diversity within this stand.</p>										
19	A6	28	81	64	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : Access is from the Green Creek Road (CoRd MMK) off of M-35. Best access more specifically is through the private forty SESE (with permission of course) owned by Jake Korpi. He has existing skid trails crossing his forty. Another option would be from the north across mining co. land, but this requires crossing alder wetland on the north end of the State forty. This stand itself is a good logging chance, fairly level, not rocky, and the largetooth aspen is not excessively overmature. Leave the oak, cherry, red/white pine, & hemlock (trace). Mostly white pine here. I did note very good oak & white pine regen in this general area from older cuttings. (eg. SWSW of Sec 34). Dept of Conservation iron pipe & cap at SE corner of stand in tiny alder swamp. Merchantability 7 due to the need to cross private land.</p> <p>Wld : Located in the SWSE of Sec 33, north of the Escanaba river. Cut no white pine, red pine, cherry, or oak. Retain examples of all associate species to maintain diversity within this stand.</p>										
26	W5	8		60	white pine	unevenaged	shelterwood-seed	1		
<p>comnts Fmd : Typical rockoutcrop terrain for this area, but not a bad logging chance when combined with other stands in the area. Leave most of the white & red pine, cutting the other merchantable species except what might be retained for aesthetics near the road (eg. some birch). We will accept natural regeneration in a mixture of the species already present.</p> <p>Wld : Located in the NENE of Sec 35, mostly south of CoRd MU. Cut no white pine, oak, red pine, or cherry. Retain associate species to maintain diverstiy.</p>										
45	J6	9	83	60	jack pine	mature	final harvest	1		
<p>comnts Fmd : Most of this stand slopes down to the north to the creek bottom, but not severly. It is still operable. Although it grows excellent jack pine, we do not wish to trench this site. Instead, manage for natural regeneration here, which should be a mixture of species already present, including white pine. Perhaps combine with a Gwinn area sale closeby to the south if any are scheduled for near 2008. Leave the red & white pine.</p> <p>Wld : Located in the SWSW of Sec 31, west of CoRd 565 and south of swamp.</p>										
56	W9	6		60	white pine	unevenaged	shelterwood-seed	1		
<p>comnts Fmd : This stand should be cut with stand 19 since it is not a stand alone sale. Oak, and most of the pine will be left.</p> <p>Wld : Located in the north end of SWSE of Sec 33.</p>										
66	W9	23		60	white pine	unevenaged	shelterwood-seed	2		
<p>comnts Fmd : The SENW was not included in the 1977-79 commercial cut by Louisiana Pacific permit #5-77A. It can be accessed through the NWNW on existing road with permission, or possibly through stand 67 with a new road. The old abandoned powerline route is not usable for a road due to rock outcrop & wet areas. But it is hoped that a route could be found skirting to the south of the wetland to reach stand #24 in NWSE, even if it has to be a winter road. Stand 66 has rock outcropping but not so severly to limit logging. White pine seems to seed in readily when given an opening in the canopy.</p> <p>Wld : Located in the SENW of Sec 35.</p>										
67	W6	8		60	white pine	unevenaged	selection	1		
<p>comnts Fmd : Stand could be accessed from west on existing road with permission from privately owned NWNW of Sec 35, or a road could be built from the north across 2 chain neck of swamp (no creek involved). See comments for stand 22 & 23. Jack pine here is high risk, about 76 yrs old, thus priority 1 for cutting. We will accept natural regeneration here of a mixture of species already present, but anticipate white pine seeding which has already been demonstrated to succeed in this area. Basal area of poletimber requires a "6" stocking, although white pine is mostly sawlog size.</p> <p>Wld : Located in the E1/2NW of Sec 35.</p>										

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 278 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
73	J6	11	81	64	jack pine	high risk	final harvest	1	direct seeding	

comnts Fmd : Significant mortality in stand - high risk. Stand also contains small black spruce swamp inclusion which should be cut at the same time (some nice bigger spruce - have to freeze a skid trail across a neck of swamp to reach south rock outcrop island in this stand). May be impractical to trench this small an acreage, so we may want to rely on natural regeneration here. Leave a seed source (seed trees) for spruce when swamp inclusion is cut. Thus spruce will be an acceptable alternative management objective here.

Wld : Located in the NENE of Sec 35, mostly south of CoRd MU.

Total Acres..... 175

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
24	M6	43	73	56	aspen (upland)	mature	final harvest	2		

TREATMENT LIMITING FACTORS: Land survey needed

comnts Fmd : Fairly level terrain, not too rocky, actually a good logging chance. Physically getting to the stand is the problem. May have to use a frozen winter road to access - possibly through stand 66 to the west. Although red maple has the most basal area of any species, much of this is small diameter and merchantable height. Aspen is patchy but should restock most of the area after cutting judging by the recent cut on privately owned SWNE (they crossed swamp from the north in winter in 2005/06). Leave the red & white pine. An abandoned powerline crosses stand NW to SE (it is only a 4 wheeler trail at present - grown in). The new stand should be a mixture of species that are present now, but predominant aspen. We will accept natural regeneration in a mixture of those species already present.

Wld : Located in the N1/2SE of Sec 35.

Total Acres..... 43

