



**GWINN FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #31 ENTRY YEAR: 2007**

**Compartment GIS acres: 762 County: 52 Marquette**

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**Revision Date:** 9/01/2005

**Stand Examiner:** Jerry Mohlman

**Legal Description:** T45N R25W Sections 20, 21, 22, 28, 30

**Management Goals:** This compartment contains mostly pine dominated stands of natural seed origin, most of which have been treated in the past. We are planning to remove miscellaneous species and do some thinning in the remaining untreated mixed red and white pine stands to improve the growth of those species and mimic a more natural condition. We are also planning to thin oak and northern hardwood stands, removing basal area to approximately 80, to improve the quality of the stands and growth of the remaining trees. Two small Jack pine stands are being proposed for final harvest due to advanced age, condition, and presence of jack pine budworm in the area. One stand may be impossible to access. We will leave all red pine, white pine, and oak in those stands for diversity. One urban stand will be converted to fir, which is advanced in the stand, to keep the stand in a forested condition. The other stand will be reseeded to jack pine. Wildlife, aesthetics, and recreation values will be considered for all harvests.

**Soils and topography:** Mostly flat to rolling with some moraines. Some steeper slopes along the Escanaba River are the ancient glacial drainage riverbank. Sundog silt loam, Rubicon sand, Garlic-Fence complex, Pelissier Gravelly sandy loam, Karlin sandy loam, Pence fine sandy loam, Carbondale and Tawas soils, Geenwod and Dawson soils, Farquar gravelly sandy loam, Tawas-Deford mucks, Evart-Pelkie-Sturgeon complex are the major soils.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment contains the state land around the town of Gwinn. Although Gwinn is not a rapidly growing town, some new houses are being built every year and most of the private land adjacent to state land contains homes or camps. Additionally, some refuse is being dumped on state land in this compartment. Most of the land is heavily used and showing affects of that use.

**Unique, Natural Features:**

**Archeological, Historical, and Cultural Features:** This compartment is surrounding the town of Gwinn, which is on the state list of historic sites due to being entirely planned as a model town and built by the Cleveland Cliffs mining company. There are numerous old mines and exploration sites in the area. Also old logging camp sites are nearby.

**Special Management Designations or Considerations:** Potential old growth or biodiversity stewardship stands: 4,11,13,16,43,44,45,46,47,49.

**Watershed and Fisheries Considerations:** Escanaba River

## **Wildlife Habitat Considerations:**

**Mineral Resource and Development Concerns and/or Restrictions:** **Compartment 31** Sections 20 - 22, 28 & 30, T45N-R25W, Marquette County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium, peat and muck and medium-textured till. The glacial drift thickness varies between 10 0 and 200 feet. The Precambrian Archean Granite/Gneiss, Bijiki Iron and Oak Bluff Formations subcrop below the glacial drift. The Bijiki has been mined for iron in this area and the Granite/Gneiss has dimension stone characteristics in some areas. There are gravel pits in the area and potential should be good on the uplands. Abandoned iron mines are located in this area and the economic iron has been removed. This State land has been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Mostly good but some areas are blocked by private land.

**Survey Needs:** Need corners on west line of section 30.

**Recreational Facilities and Opportunities:** Snowmobile trails are in many of the parcels in this compartment. Also ORV use is heavy on the existing trails in the compartment.

**Fire Protection:** Much of this compartment is in the urban-wildland interface and has dry sandy soils. Proximity to the Gwinn field office and the local volunteer fire department is an advantage but fire frequency is probably above average for the forest overall.

## **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: 31

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			123		2														125
Black Spruce								8	49	49	4								110
Cedar														4					4
Grass	19																		19
Jack Pine			40		62			7	5		10								124
Lowlnd Brush	31																		31
Mx Swmp Cnfr										3		30							33
Non Stocked	29																		29
Oak									5										5
Paper Birch									9										9
Red Pine					25														25
Rock	7																		7
Upland Hdwds																		69	69
Water	2																		2
White Pine			21						25		7							118	171
<b>Total</b>	<b>88</b>		<b>184</b>		<b>89</b>			<b>15</b>	<b>93</b>	<b>52</b>	<b>21</b>	<b>30</b>		<b>4</b>				<b>187</b>	<b>763</b>

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ESCANABA RIVER STATE FOREST

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MARQUETTE COUNTY

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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	125																										125
S Black Spruce		110																									110
C Cedar				4																							4
G Grass					19																						19
J Jack Pine							114												10								124
L LowInd Brush									31																		31
Q Mx Swmp Cnfr												33															33
X Non Stocked													29														29
O Oak														5													5
B Paper Birch															9												9
R Red Pine																25											25
K Rock																	7										7
M Upland Hdwds																								69			69
Z Water																									2		2
W White Pine																										171	171
<b>Total</b>	125	110		4	19		114		31			33	29	5	9	25	7		10					69	2	171	763

ESCANABA RIVER STATE FOREST

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1676 Cds	Hardwood	413 Cds
Hardwood	129 Mbf	Hardwood	29 Mbf
Softwood	3896 Cds	Softwood	340 Cds
Softwood	977 Mbf	Sum CutVol	811 Cds
Sum TotVol	7784 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
763		93	

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 31**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
<b>23</b>	<b>J6</b>	5	75	55	jack pine	mature	final harvest	2			
comnts Fmd : Upland area along snomobile trail sparse and thick areas. Leave large w. and R. pine at harvest for visual aspect. Some areas have rock outcrops and thin soil. Those areas probably will not be replanted but should have adequate regeneration or retention of red pine or aspen.											
<b>31</b>	<b>O6</b>	2	74	46	oak	immature	selection	2			
comnts Fmd : Recommend thinning to release oak. More tight east of powerline, less west. Some oak should come out to expand crowns on remainder. Some oak have cankers or other defects.											
<b>32</b>	<b>O6</b>	3	74	46	oak	immature	selection	2			
comnts Fmd : Recommend thinning to release oak. More tight east of powerline, less west. Some oak should come out to expand crowns on remainder. Some oak have cankers or other defects.											
<b>33</b>	<b>W6</b>	10	70	53	white pine	immature	selection	2			
comnts Fmd : W6R6, W7R7W6 should be cut to release white pine. Take out aspen, mixed softwood, mixed hardwood except oak and possibly mark the pine. Possible garage trespass in stand.											
<b>35</b>	<b>W6</b>	15	70	53	white pine	immature	selection	2			
comnts Fmd : W6R6, W7R7W6 should be cut to release white pine. Take out aspen, mixed softwood, mixed hardwood except oak and possibly mark the pine. Snomobile trail goes through stand so will not be winter cut.											
<b>40</b>	<b>M6</b>	48		50	northern hardwood	unevenaged	selection	2	planting		
comnts Fmd : Thinned 1990-91 Permit # 1-89-1. Some areas ready for another thinning with other areas not. West hilly, east flat. Diverse with nice hemlock groves in stand along with nice oak. Thin to promote growth on good quality crop trees, expand oak crowns for mast production. White pine, hemlock, oak, cedar will not be cut. Adequate wildlife trees will be left. BA reduced to approximately 80. Underplant hemlock after harvest for diversity by wildlife division.											
<b>Total Acres.....</b>		<b>83</b>									

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 31**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
18	J6	10	93	45	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1		

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Nice jack pine with some mortality, sparse in spots. Cedart on lowland edge and scattered red and white pine will be left. Also leave advanced fir regeneration. Convert to fir and whatever seeds in. Stand may be hard to access due to residential area almost surrounding stand.

**Total Acres..... 10**

