



**GWINN FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #50 ENTRY YEAR: 2007**

**Compartment GIS acres 1881      County:52 Marquette**

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**Revision Date: 09/01/2005**

**Stand Examiner: Jerry Mohlman**

**Legal Description: T44N R26W Sections 13, 14, 15**

**Management Goals:** All selection harvests will have a basal area target of 70-90 square feet. Emphasis will be on improving the timber quality by removing poor quality trees and releasing crop trees with good timber quality. Wildlife trees will be retained at least 2 per acre along with all remnant old growth trees, visually interesting trees, and representative trees of all species. All cedar, hemlock, white and red pine will be left in all harvests. Aspen clearcuts will retain those trees as well as retaining pockets of advanced fir regeneration however the emphasis there is regenerating the aspen. One pine stand is proposed for burning to promote natural pine regeneration, and mimic a natural ecosystem process. Riparian areas are protected by potential old growth designation. This includes a large core area around Landon Lake.

**Soils and topography:** Mostly flat to rolling. Some moraines and other glacial features are here. Carbondale and Tawas soils, Tawas-Deford mucks, Garlic-Fence complex, Garlic-Alcona-Voelker complex, Emmet fine sandy loam, Emmet-Escanaba complex, Histosols and Aquents, ponded, Alcona loamy very fine sand, Rubicon sand, Crosswell sand, Kalkaska sand, Keweenaw-Kalkaska complex, Ensley-Solona complex, Paquin-Finch sands are the predominant soil types.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** One private forty acre parcel has a hunting camp. Most of the rest of this area is a solid block of state land.

**Unique, Natural Features:** One cedar stand has existing old growth where a cutting study was done in the 1940's.

**Archeological, Historical, and Cultural Features:** Some old logging camp sites are in this compartment. Most of the remains are mounds in the soil.

**Special Management Designations or Considerations:** Potential old growth or biodiversity stewardship stands: 2,3,4,5,6,24,25,26,28,30,48,50,69,70,71,79,80,414.

**Watershed and Fisheries Considerations:** Chandler Brook, Bob's Lake, Little Bob's Lake, Landon Lake, Bob's Creek

**Wildlife Habitat Considerations:**

**Mineral Resource and Development Concerns and/or Restrictions:** **Compartment 50** Sections 13 - 15, T44N-R26W, Marquette County

Surface sediments consist of medium-textured till, glacial outwash sand and gravel and postglacial alluvium and peat and muck. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Munising Formations subcrop below the glacial drift. The Trempealeau could be used for stone. Gravel pits are located one mile to the south, and potential is good on the drumlins. Abandoned iron mines are located six miles to the northeast. This area has not been previously leased. There is no economic oil and gas production in the UP.

**Vehicle Access:** Good throughout compartment to high ground areas. No vehicle access on wetland areas west of Bob's Lake and near Landon Lake.

**Survey Needs:** Corners are adequate but eventually would need private land corners established in compartment.

**Recreational Facilities and Opportunities:** Snowmobile trail is on Perrin Brothers road during the winter. Area is popular for hunting. Some hunting and fishing occurs on Bob's Lake. Chandler Brook is a trout stream.

**Fire Protection:** Some wildfires have occurred in the drier sites on this compartment. We are planning one prescribed burn for natural pine management and to mimic natural processes. Most of the compartment has had a low fire frequency.

**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: 50

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		26	31	11	135	59	91	22											375
Black Spruce								16	20		13								49
Cedar										90						166	82		338
Grass	30																		30
LowInd Brush	68																		68
LowInd Poplr		22																	22
Marsh	2																		2
Mx Swmp Cnfr										156	50	22		51	96		7		382
Paper Birch							4			8									12
Red Pine								31											31
Spruce Fir				18	22			11		25									76
Upland Hdwds				16							1							361	378
Water	29																		29
White Pine		13									12	64							89
<b>Total</b>	<b>129</b>	<b>61</b>	<b>31</b>	<b>45</b>	<b>157</b>	<b>59</b>	<b>95</b>	<b>80</b>	<b>20</b>	<b>279</b>	<b>76</b>	<b>86</b>		<b>51</b>	<b>96</b>	<b>166</b>	<b>89</b>	<b>361</b>	<b>1881</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: 50

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	375																										375
S Black Spruce		49																									49
C Cedar				338																							338
G Grass					30																						30
L LowInd Brush								68																			68
P LowInd Poplr									22																		22
N Marsh											2																2
Q Mx Swmp Cnfr												382															382
B Paper Birch															4											8	12
R Red Pine																31											31
F Spruce Fir																			76								76
M Upland Hdwds																								378			378
Z Water																									29		29
W White Pine																										89	89
<b>Total</b>	<b>375</b>	<b>49</b>		<b>338</b>	<b>30</b>				<b>68</b>	<b>22</b>	<b>2</b>	<b>382</b>			<b>4</b>	<b>31</b>			<b>76</b>					<b>378</b>	<b>29</b>	<b>97</b>	<b>1881</b>

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **50**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10825 Cds	Hardwood	2423 Cds
Hardwood	745 Mbf	Hardwood	12 Mbf
Softwood	9961 Cds	Softwood	282 Cds
Softwood	1503 Mbf	Sum CutVol	2729 Cds
Sum TotVol	25282 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
1881		134	

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 50**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
10	M6	3		80	northern hardwood	unevenaged	selection	2	planting	stand with fdf potential
comnts Fmd : Small stand, fair quality, good potential. Need line work and possible stream crossing. Underplant hemlock for diversity by wildlife division after harvest.										
13	A6	40	55	71	aspen (upland)	mature	final harvest	2		
comnts Fmd : This stand is mature but not overmature and can hold if needed. Mix of spruce and fir in an intermediate understory. We will mark some larger hardwood and possibly some windfirm conifers to leave along Perrin Brothers road for visual enhancement. Also some patches of fir regeneration will be left during harvest to increase diversity and aesthetics.										
14	M6	8		71	northern hardwood	unevenaged	selection	2	planting	stand with fdf potential
comnts Fmd : Thinned 1980. Some poor timber quality trees here but good potential especially the sugar maple. Good species diversity here and that will be retained during harvest. Underplant hemlock for diversity after harvest by wildlife division.										
40	A6	23	55	71	aspen (upland)	mature	final harvest	2		
comnts Fmd : Big aspen, mature. Stand slopes down toward road east. Will mark long lived hardwoods to retain for visual values along road. Hardwood is a mix of red and sugar maple, yellow birch, basswood, white birch.										
43	M6	11		77	northern hardwood	unevenaged	selection	2	planting	stand with fdf potential
comnts Fmd : TSI and elm salvage in 1977. Need line work here but should be able to do it. Good potential but a lot of basswood clumps and poor quality to come out. Some sparse areas but most areas need thinning. Underplant hemlock for diversity after harvest by wildlife division.										
52	B6	8	78	55	white pine	mature	shelterwood-seed	2		
comnts Fmd : Birch is dying back and should be cut. There is some healthy white birch here. Some could be marked to leave for seed but would prefer to leave all white pine and try to convert stand to white pine through cutting and leaving pine. Pine should continue to seed in from adjacent stand. Some spots will regenerate to aspen but aspen is not present throughout stand. Possible to pick up part of adjacent compartment since it is a small part of this same stand.										
54	W8	13	5	55	white pine	immature		0	natural regeneration	
comnts Fmd : Cut all but pine in 2000 under permit #37-97-01. Aspen regeneration is only in from road 3 chains and in a couple other patches. Otherwise regeneration is mostly balsam fir 1-4" tall. A few pine seeding in from scattered large red and white pine. Some red maple clumps. Recommend burning stand in a surface fire to knock back fir regeneration and promote a good seedbed for pine regeneration.										
59	A6	22	60	71	aspen (upland)	mature	final harvest	2		
comnts Fmd : Stand is about 1/2 aspen mature and 1/2 hardwood. Not enough hardwood to convert although hardwood is good quality and site is hardwood quality. Recommend clearcut to manage aspen and mark hardwood along road to be left after sale for visual enhancement. Perhaps leave small hardwood patches.										
61	F5	11	65	71	spruce-fir (uplands- including upland black spruce)	mature	final harvest	2		
comnts Fmd : Sparse areas due to budworm attack in the late eighties but mature trees. Mostly large spruce. Advanced spruce/fir regeneration is throughout stand, thick 6-15' tall average but smaller and larger too. Aspen not throughout but up to 3/4 of stand may convert to aspen. Advanced fir regeneration will be left mostly in patches in the sparse areas. Scattered large white pine, upland cedar will not be cut in the harvest.										
62	M6	6		70	northern hardwood	unevenaged	selection	2	planting	
comnts Fmd : Poor timber quality larger red maple and yellow birch. Possible to thin with compartment to north to get larger sale. Some areas not stocked well with hardwood but thick fir under. Good potential for red maple to improve but many cull trees here. Good wildlife stand with hemlock, den trees, large diameter hardwood. Access not good enough for sale alone at this time. Will cut with stand to the north. Underplant hemlock for diversity after harvest by wildlife division.										
75	M6	2		70	northern hardwood	unevenaged	selection	2	planting	
comnts Fmd : Small stand heavily stocked and should be thinned. Need property line here. Stand is only a couple acres. Some basswood here but mostly sugar maple. Underplant hemlock for diversity after harvest by wildlife division.										
<b>Total Acres.....</b>		<b>147</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 50**

**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>FD Status</b>
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TREATMENT LIMITING FACTORS:

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Total Acres..... 0

