



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #65 ENTRY YEAR:2009
Compartment Acreage: 1277 GIS acres County: Marquette

Revision Date: 08/08/2007

Stand Examiner: Jerry Mohlman

Legal Description: T43N R25W Sections 4,5,6

Management Goals: For the 10 year entry period, we will harvest three aspen stands and one spruce/fir stand to regenerate aspen. Retention in these stands will consist of white pine, cedar, hemlock, and groups of hardwood along travel corridors. We are planning to have selection harvests in two hardwood stands. We will retain representatives of all tree species in these stands as well as all size classes. We will retain den trees and other trees important to wildlife. Emphasis will be on improving tree and stand timber quality.

Soils and topography: Nadeau-Mancelona, Ensley muck, Nadeau fine sandy loam, Carbondale and Tawas, Crosswell sand, Mashek fine sandy loam. Soil ranges from high quality hardwood soil to poorly drained wetland. Flat to gently rolling with some steep moraines or eskers.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Several private parcels in and around the compartment mostly used as hunting camps.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: Some old logging camp sites in compartment.

Special Management Designations or Considerations: Biodiversity maintenance stands associated with the Big West Branch of the Escanaba River and tributaries. Stands 4, 6, 7, 8, 9, 11, 16, 21, 29, 30, 32, 39, 43, 45, 47, 48, 51, 54, 59, 63, 66, 70, 71

Watershed and Fisheries Considerations: Escanaba River and Big West Branch.

Wildlife Habitat Considerations: For all SCA, biodiversity maintenance stands-maintain as movement corridors for wildlife species and the protection of riparian areas. Promote biological legacies such as snags, coarse woody debris, and intact nutrient cycles. Strive for best possible age class distribution in aspen stands. Maintain or increase biodiversity in northern hardwood stands through retention of associate species and/or under-planting efforts where feasible.

Mineral Resource and Development Concerns and/or Restrictions: Compartment 65 Sections 4 - 6, T43N-R25W, Marquette County

Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium, peat and muck and minor medium-textured till (drumlin area). There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group and Cambrian Trempealeau Group subcrop below the glacial drift. The Trempealeau and PdC could be quarried for stone in the UP. A gravel pit is located two miles to the

southwest, but there should be potential on the upland areas. Abandoned iron mines are located eight miles to the north. Part of the Compartment was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Good throughout compartment, except SW part which is blocked by private land or streams.

Survey Needs: No corners requested this entry period.

Recreational Facilities and Opportunities: Snowmobile trail. General forest recreation such as hunting and fishing.

Fire Protection: Fire frequency is low in this compartment. Some private camps and other structures in the forested area.

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: 65

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		148		82	83		259	25											597
Black Spruce									16										16
Cedar								6		53	14	76							149
Grass	58																		58
Hemlock										8									8
LowInd Brush	51																		51
LowInd Poplr							7	3	27										37
Mx Swmp Cnfr				2	2				13	20	62								99
Non Stocked	2																		2
Spruce Fir				12				65		18									95
Swamp Hrdwds								21											21
Upland Hdwds																		104	104
Water	31																		31
White Pine								4		5									9
Total	142	148		96	85		266	124	56	104	76	76						104	1277

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

ESCANABA RIVER STATE FOREST

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COMPARTMENT: 65

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	597																										597	
S Black Spruce		16																										16
C Cedar				149																								149
G Grass					58																							58
H Hemlock						8																						8
L LowInd Brush									51																			51
P LowInd Poplr										37																		37
Q Mx Swmp Cnfr												99																99
X Non Stocked													2															2
F Spruce Fir	16																		79									95
E Swamp Hrdwds																				21								21
M Upland Hdwds																								104				104
Z Water																										31		31
W White Pine																										9		9
Total	613	16		149	58	8			51	37		99	2						79	21					104	31	9	1277

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **65**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8727 Cds	Hardwood	3140 Cds
Hardwood	100 Mbf	Hardwood	17 Mbf
Softwood	4908 Cds	Softwood	542 Cds
Softwood	229 Mbf	Sum CutVol	3716 Cds
Sum TotVol	14293 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	223
1277			

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 65

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
1	A6	67	52	80	aspen (upland)	mature	final harvest	2			
<p>comnts Fmd : 10" Aspen mostly mature but areas of sparse stocking due to mortality. Some 4 stick aspen towards river due to poorer soil perhaps but larger interior of stand. Some of this stand will hold but most looks like volume is being lost due to mortality. When harvested we will retain some trees. We are retaining all white pine, hemlock and cedar in aspen harvests scheduled in order to maintain or enhance diversity.</p> <p>Wld : Cut no white pine, hemlock, or cedar.</p>											
27	M6	29		67	northern hardwood	unevenaged	selection	2		prescribed for fdf treatment	
<p>comnts Fmd : Cut in 1989. Good quality but not much regen overall however some patches south. Ready for another thinning. Some low forks. Some dieback in yellow birch. M9 in areas but mostly M8M6. we will retain some large diameter and den trees in order to maintain diversity in these stands, in addition to retaining representation of all existing tree species in these stands. We will retain some large diameter and den trees in order to maintain diversity in these stands, in addition to retaining representation of all existing tree species in these stands.</p> <p>Wld : Diverse stand with inclusions of hemlock and cedar. Underplant with hemlock after sale is completed to increase diversity and hemlock component.</p>											
35	A6	72	48	66	aspen (upland)	mature	final harvest	2			
<p>comnts Fmd : Medium sized aspen 4-5 stick in most areas but areas of larger aspen, especially north. Thick fir understory up to 4" dbh. Merchantable and could cut. Also possible to hold for 10 years. Not much mortality. We are retaining all white pine, hemlock and cedar in aspen harvests scheduled in order to maintain or enhance diversity.</p> <p>Wld : Cut no white pine, hemlock, cedar, or black cherry.</p>											
37	A6	12	66	51	aspen (upland)	mature	final harvest	2			
<p>comnts Fmd : Mixed A6 and B6 with spruce/fir throughout. Mature with aspen mortality. Some areas not much aspen or no aspen. Mark leave trees for visual aspects and seed trees in no aspen areas. We are retaining all white pine, hemlock and cedar in aspen harvests scheduled in order to maintain or enhance diversity.</p> <p>Wld : Cut no white pine, hemlock, or cedar.</p>											
41	F6	16	65	51	aspen (upland)	mature	final harvest	2			
<p>comnts Fmd : Some blowdown areas. Thick fir under. 2-4 stick aspen mature but small. Well-stocked. Some fir areas. We are retaining all white pine, hemlock and cedar in aspen and fir harvests scheduled in order to maintain or enhance diversity.</p> <p>Wld : Cut no white pine, hemlock or cedar. As part of retention, leave some representatives of associate species within stand.</p>											
Total Acres.....		196									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
3	M6	27		66	northern hardwood	unevenaged	thinning	2		prescribed for fdf treatment

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle
Influence zones

comnts Fmd : Good potential, ready for thinning. Need access through private land and/or stream crossing. Some aspen including aspen patch north and west. We will leave some large aspen but probably harvest most due to maturity. North and west part will be mostly clearcut, probably 2-3 acres. We will retain some large diameter and den trees in order to maintain diversity in these stands, in addition to retaining representation of all existing tree species in these stands.

Wld : Cut no hemlock, white pine, or cedar. Maintain legacy trees such as large live den trees, snags, and representative associate species.

Total Acres..... 27

