



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 85 ENTRY YEAR: 2008

Compartment Acreage: 1733 GIS acres. County: 52 Marquette

Revision Date: 8/24/2006

Stand Examiner: Kevin LaBumbard

Legal Description: T43N, R24W, Sections 10, 11, 12

Management Goals: : Improve the quality of the Northern Hardwoods stands through selective management while maintaining species diversity, (including the conifer content) and den trees for wildlife. Additional goals are to provide age-class distribution of Aspen by harvesting selected stands. Considerations for species diversity, coarse woody debris, and BMP's will be included with every harvest plan.

Soils and topography Geologic features include a nearly level glacial drainageway, ground moraines, and till plains. Soils are very poorly drained organic soils, poorly drained loamy soils, and well drained loams. Soil series include Carbondale, Lupton, Rifle, Tacoosh, Angelica, Gay . Skanee, Onaway, Trenary, and Kalkaska.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment lies within a fairly large block of state land with only a couple of private ownerships within the compartment boundary.

Unique, Natural Features

Archeological, Historical, and Cultural Features

Special Management Designations or Considerations: Special Conservation Areas (formally know as Old Growth stands) are shown on the attached map.

Watershed and Fisheries Considerations:

No major rivers or streams are present in the compartment. Drainage is limited to small creeks and large swamps.

Wildlife Habitat Considerations:

Strive for the best possible age class distribution and species/structural diversity in aspen. Optimize species and vertical structural diversity and complexity in treated northern hardwoods stands. Enhance horizontal structural heterogeneity and complexity by maintaining a wide range of basal areas in the array of northern hardwoods stands. Underplant hemlock and/or white pine in stands 14, 26, 28, 29, 33, 49, and 50 upon sale completion. Maintain evergreen conifer thermal cover for yarding deer via special conservation area designations on stands 20 and 24. These stands are within the Mead Deer Yard.

Mineral Resource and Development Concerns and/or Restrictions: Sections 10 - 12, T43N-R24W, Marquette County. Surface sediments consist of medium-textured till (drumlin area). There is insufficient

data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for dolostone in the UP. There are no gravel pits located in this area, but there may be potential on the upland areas. Abandoned iron mines are located nine miles to the northwest. This area was not previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access to the compartment is fairly good via the Dept. maintained Hamilton Homestead road. Unfortunately, HH road receives a lot of usage during wet months and is constantly in only mediocre condition.

Survey Needs: none

Recreational Facilities and Opportunities: Hunting for ruffed grouse, woodcock and whitetail deer are the primary recreational activities in this compartment. This area also sees quite a bit of Orv use.

Fire Protection: This compartment has a low risk for wildfire.

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: 85

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		33	62	177	112			23											407
Cedar									130		280	75							485
LowInd Brush	2																		2
LowInd Poplr			33																33
Marsh	144																		144
Mx Swmp Cnfr								24		4					3				31
Swamp Hrdwds								48	255										303
Upland Hdwds		5		2					8									277	292
Water	36																		36
Total	182	38	95	179	112			95	393	4	280	75			3			277	1733

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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: 85

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	407																										407
C Cedar				485																							485
L LowInd Brush									2																		2
P LowInd Poplr										33																	33
N Marsh											144																144
Q Mx Swmp Cnfr												31															31
E Swamp Hrdwds																				303							303
M Upland Hdwds																								292		292	
Z Water																									36	36	
Total	407			485					2	33	144	31								303				292	36	1733	

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **85**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9395 Cds	Hardwood	1248 Cds
Hardwood	162 Mbf	Hardwood	31 Mbf
Softwood	9919 Cds	Softwood	95 Cds
Sum TotVol	19638 Cds	Sum CutVol	1405 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1733		114	

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 85

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
14	M6	22		62	northern hardwood	unevenaged	selection	2	planting	prescribed for fdf treatment
<p>comnts Fmd : Good quality sugar maple pole stand transitioning to a sawtimber stand. There are a few basswood stems in the northwest portion of the stand but no yellow birch or conifer component. Maple regeneration is very good from the past thinning in 1988.</p> <p>Wld : Retain all cedar, white spruce, white pine, hemlock and all fir two sticks tall and shorter. Underplant hemlock and/or white pine.</p>										
26	M6	20		62	northern hardwood	unevenaged	selection	2	planting	prescribed for fdf treatment
<p>comnts Fmd : Most of the stand is good quality except the southern portion which degrades to soft maple. Occasional cherry and yellow birch along the fringe. Marking prescription will not include marking of any cherry and yellow birch. The heron rookery south of the stand is no longer active. The stand was thinned approximately 15 years ago.</p> <p>Wld : Underplant hemlock and/or white pine once stand thinned. Leave all cedar, white pine pine, hemlock, and white spruce. Opportunity exists to leave some larger diameter trees for diverse wildlife/habitat concerns. Very few overstory white birch in stand. Conifer component of stand is lacking in all strata. Occasional white spruce saplings - 3 to 4 feet tall. Very limited deer browse on understory maple. Old cedar stumps with bark on them along south side of stand.</p>										
28	M6	24		62	northern hardwood	unevenaged	selection	2	planting	prescribed for fdf treatment
<p>comnts Fmd : Fairly nice but variable hardwood stand split lengthwise by Hamilton Homestead Road. The "center" of the stand is of very good quality with decent hard maple regeneration, especially in gaps. The northern portion of the stand as well as the edges and slopes are of poorer quality and the regen. Here tends to be more of an F2. There are scattered basswood throughout the stand and occasional yellow birch along the lower fringe which will not be marked for removal.</p> <p>Wld : Underplant hemlock and/or white pine once stand thinned. Retain some scattered aspen in overstory for diversity, snag development, and budding purposes. Retain all cedar, white pine, hemlock, and white spruce. Yellow and white birch important associates in stand. Leave fir that is 2-sticks tall and shorter. Very little conifer component to south end of stand. Very few supercanopy white pines with associated white pine saplings.</p>										
29	M6	2	68	52	northern hardwood	immature	thinning	2	planting	
<p>comnts Fmd : Poor quality hardwood knob with occasional yellow birch and scattered aspen.</p> <p>Wld : Underplant hemlock and/or white pine. Retain a few large aspen in stand for cavity developemnt and snag recruitment. Leave all cedar, white pine, hemlock, and white spruce.</p>										
33	M6	4		65	northern hardwood	unevenaged	selection	2	planting	prescribed for fdf treatment
<p>comnts Fmd : Very good quality sugar maple stand. Culvert will be required for access.</p> <p>Wld : Conifer component of stand very low - none in overstory. Leave all cedar, white pine, hemlock, fir and white spruce. Plant hemlock and/or white pine after cutting completed. Very scattered white spruce saplings - 3' to 4' tall. Very limited browse on understory maple. Strive to increase diameter-class diversity. ATVs going through wetland to reach stand.</p>										
40	A6	19	66	68	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : A6F4M4. Large diameter aspen growing on a fairly high ridge. Access will be from the north thru compartment 86 and will be limited to the winter months. Part of the stand was cut in 2004, (stand 41) with compartment 86 under permit # 18-02-01.</p> <p>Wld : Retain all cedar, white pine, hemlock, white spruce, cherry, and elm.</p>										
49	M6	7		56	northern hardwood	unevenaged	selection	2	planting	prescribed for fdf treatment
<p>comnts Fmd : High quality sugar maple pole stand. Occasional basswood scattered in the stand. Heavier stocking of soft maple and fir understory in the northeast. Excellent maple regeneration, often over 8' tall.</p> <p>Wld : Underplant hemlock and/or white pine. Limited number of hemlock poles to west. Strive for maintaining species diversity in the overstory, and to increase the size-class diverity. Good deadwood structure - standing and fallen. Retain all cedar, white pine, hemlock, and white spruce.</p>										
50	M6	12		62	northern hardwood	unevenaged	selection	2		prescribed for fdf treatment
<p>comnts Fmd : Thinned in 1988, this stand lies in 2 compartments. Schedule for treatment with stand 35 of compartment 84. Fairly high quality sugar maple stand. Good existing regeneration from 4-5' tall.</p> <p>Wld : Retain all cedar, white pine, hemlock, and white spruce. Strive to maximize overstory diversity, both in species richness and size-class/crown-class variation. Underplant hemlock and/or white pine after harvesting completed.</p>										

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 85

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
62	A6	4	61	62	aspen (upland)	mature	final harvest	2	planting	
<p>comnts Fmd : Fairly small mixed A4B4M4F4 over 3'-5' fir regen. Stand contains a few big yellow birch. Cutting prescripton will include the retention of selected white birch and all yellow birch.</p> <p>Wld : Underplant hemlock and/or white pine once sale completed. Fringe of cedar poles along east side of stand. Nice deadwood representation - standing and fallen. Leave some scattered overstory aspen. Retain all cedar, white pine, hemlock, and white spruce.</p>										
Total Acres.....		114								

**Proposed Treatments
With Limiting Factors**

Compartment: 85

Entry Year: 2008

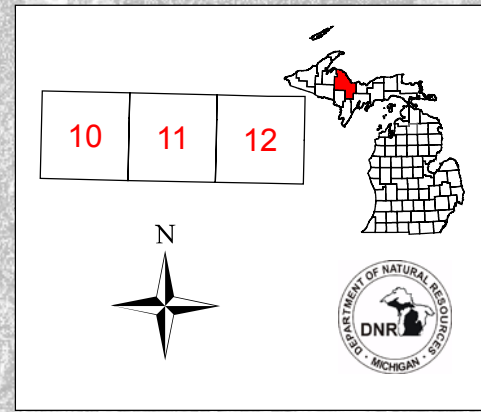
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 85
 T43N, R24W, Sec. 10, 11, 12
 County: Marquette
 Unit: Gwinn
 YOE: 2008
 Acres: 1,733 GIS Calculated
 Stand Examiner: Kevin LaBumbard
 Map Revised: 9/13/2006
 Map Phase: Pre-review



- Legend**
- Miris Corners
 - - - County Gravel Roads
 - - - Poor Dirt Roads
 - ▭ Stand Boundary
 - ▨ Biodiversity/Old Growth Area
 - ▨ 100 - Final Harvest
 - ▨ 111 - Final Harvest/Planting/Hand Tools
 - ▨ 411 - Thinning/Planting/Hand Tools
 - ▨ 800 - Selection
 - ▨ 811 - Selection/Planting/Hand Tools

