



**Gwinn FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #217 ENTRY YEAR: 2010
Compartment Acreage: 874 County: Marquette**

Revision Date: April 4, 2008

Stand Examiner: Thomas Seablom

Legal Description: T48N R30W, Sec 6, 7, 18

RMU (if applicable):

Management Goals: Management in this compartment will continue to focus on timber production and providing wildlife habitat. With timber quality and production being medium to low, focus will be on fiber production rather than high quality sawlogs. Stands will be managed more toward even-age rather than uneven-age as is traditionally practiced in these cover types. Approximately half of this compartment is listed as potential old growth. This portion of the compartment will continue to be managed as such. This will provide habitat for various species that desire old growth characteristics. Primary wildlife management in this area is for moose and bear. By providing browse through even-age management and having old growth characteristic stands, habitat quality for both moose and bear will be increased and maintained.

Soil and Topography: Soils in this compartment are comprised predominantly of the Keewadin-Michigamme-Rock outcrop complex (KMR), and Carbondale and Tawas (CT) soils. Drainage inclusions in the KMR include poorly drained Witbeck and Cathro soils. The CT soils are found in the remainder of the depressions and drainage ways that occur on the moraines. Topography is very rugged with steep hills and fairly deep ravines. The rocky terrain has allowed for the formation of several lakes in the area.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership in and around the compartment is composed of primarily State and Private industry, with scattered private individual holdings. Craig Lake State Park is located immediately to the west and northwest of this compartment in Baraga County. The Mc Cormick Wilderness tract and Van Riper State Park are both within a few miles to the north and west, respectively, of the compartment. Land use is predominately forest products production and recreation (snowmobiling, camping, hunting and fishing). There has been very little development; primarily camps around the lakes, around this compartment. However, the town of Michigamme and Lake Michigamme to the south are both highly developed, comparatively, with both homes and camps.

Unique, Natural Features (include only non-site specific and non-sensitive information):

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

Special Management Designations or Considerations: A portion of this compartment has been designated as Potential Old Growth in the past. Stands that have been designated for consideration include: 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 23, and 25.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Located in the Peshekee Highlands. This compartment is part of a larger wildlife corridor that runs from Craig's lakes through the McCormick Wilderness and to the Huron Mountains. This corridor is important for many wide ranging wildlife such as deer, moose, wolf, bear, fisher, marten, and neo-tropical birds. Much of this compartment has been deemed "Special Conservation Area" because of this larger landscape context.

Mineral, Oil and Gas Considerations: Sections 6, 7 & 18, T48N-R30W, Marquette County. Surface sediments consist of thin to discontinuous glacial till over bedrock. The glacial drift thickness varies from either unknown and between 10 to 50 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a dimension stone. Gravel pits are not located in the area, and potential is unknown. Abandoned iron mines are located two miles to the south. This compartment has not been leased for metallic exploration recently, but State land three miles to the southeast was. There is no economic oil and gas production in the UP.

Vehicle Access: The Craig Lake Road is the main road in the area. Access to the majority of the compartment is off of this road through private property that is gated to the general public. Within the compartment very few roads exist, and those that do are of poor quality.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: There is potential for expansion of the Craig Lake State Park using this compartment. Thomas Lake is within the boundary of this compartment and is owned on one side by the Parks Division. If the private land around the remainder of the lake becomes available, it should be a high priority purchase.

Fire Protection: Timber types within this compartment are not very fire prone. However, this country is prone to lightening strikes creating small, difficult fires. Access in this area is very limited. Most roads are very rough. Protection using pumps and hand tools will be more applicable and efficient verses using large engines.

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: 217

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
Black Spruce									75										75
LowInd Brush	19																		19
Marsh	11																		11
Mx Swmp Cnfr									28							165			193
Paper Birch										8	1								9
Upland Hdwds										24	48							491	563
Water	4																		4
Total	34								103	32	49					165		491	874

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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: 217

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
S Black Spruce		75																									75
L Lowlnd Brush									19																		19
N Marsh											11																11
Q Mx Swmp Cnfr												193															193
B Paper Birch															1				8								9
M Upland Hdwds																								563			563
Z Water																									4		4
Total		75							19		11	193			1				8					563	4		874

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **217**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10292 Cds	Hardwood	1300 Cds
Hardwood	717 Mbf	Hardwood	66 Mbf
Softwood	4118 Cds	Softwood	90 Cds
Sum TotVol	15844 Cds	Sum CutVol	1522 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	140
874			

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
1	M6	16	78	58	northern hardwood	immature	shelterwood-seed	1		
<p>comnts Fmd : A shelterwood cut is being prescribed for this stand. It is generally an evenaged to two-aged stand and is a mix of northern hardwood and white birch/fir. The stand should be cut during a snow free time of year to maximize scarification of the soil. Cut all merchantable fir. Leave enough birch in the western portion of the stand for a seed source. Utilize yellow birch, black cherry, and large overmature sugar maple to satisfy retention of a maximum of 3% by basal area. Cut no hemlock, cedar or white pine.</p> <p>Wld :</p>										
4	B6	8	78	58	spruce-fir (uplands-including upland black spruce)	immature	final harvest	1		
<p>comnts Fmd : Clearcut this stand and manage hardwoods on an evenage basis. Retain enough birch, aspen, and hardwoods to meet a maximum 3% retention by acreage. Cut no hemlock, cedar or white pine.</p>										
10	M6	14		53	northern hardwood	immature	final harvest	2	planting	
<p>comnts Fmd : This stand is being prescribed for a clearcut. Cut all trees except yellow birch and if present black cherry. Retention of will be a maximum of 3% by acreage. Cut no hemlock, cedar or white pine. Pending the amount of natural hemlock and white pine regeneration that occurs, this stand may be underplanted with white pine and/or hemlock.</p> <p>Wld : Decaying stumps are evidence of higher ratios of white pine and hemlock that were removed by historic logging. Depending on regeneration success of mesic conifer species such as hemlock and white pine after a timber harvest is completed, WLD may decide to augment those species through underplanting efforts in order to restore diversity.</p>										
14	M6	94		50	northern hardwood	unevenaged	selection	2	planting	
<p>comnts Fmd : A group selection cut is being prescribed for this stand, with a residual basal area of 50 sq ft/ac. Create gaps that are 2x's tree height, especially around yellow birch and white pine. Retain species such as yellow birch, black cherry, white spruce, cedar and white pine to contribute to maximum of 3% retention by basal area. Cut no hemlock, cedar or white pine. Pending the amount of natural regeneration of white pine and hemlock, an underplanting of white pine and/or hemlock may occur.</p> <p>Wld : This stand is scheduled for a shelterwood cut which may be sufficient to restore diversity of species that are currently present such as white pine, hemlock, and upland cedar, but at lower densities than what existed historically. Depending on regeneration success of these species, WLD may decide to augment mesic conifer through underplanting efforts after timber harvest is completed.</p>										
Total Acres.....		132								

GWINN FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 217 **Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
3	M6	8	78	58	northern hardwood	immature	final harvest	1		

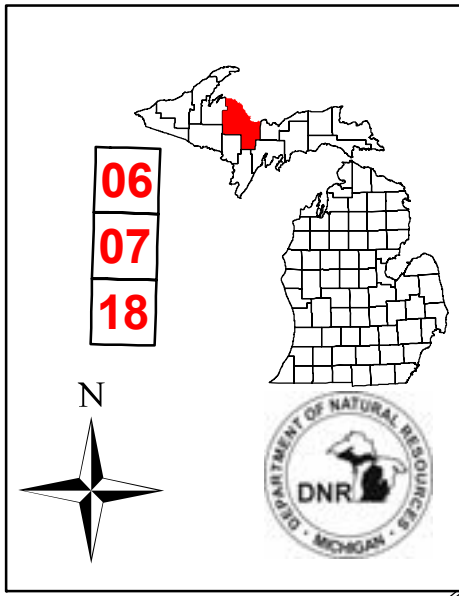
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Clearcut this stand and manage hardwoods on an evenage basis. Retain enough birch, aspen, and hardwoods to meet a maximum 3% retention by acreage. Cut no hemlock, cedar or white pine.

Total Acres..... 8

Compartment 217
 T48N, R30W, Sec. 6, 7, 18
 County: Marquette
 Unit: Gwinn
 YOE: 2010
 Acres: 874 GIS Calculated
 Stand Examiner: Thomas Seablom
 Map Revised: 08/07/2008
 Map Phase: Pre-review

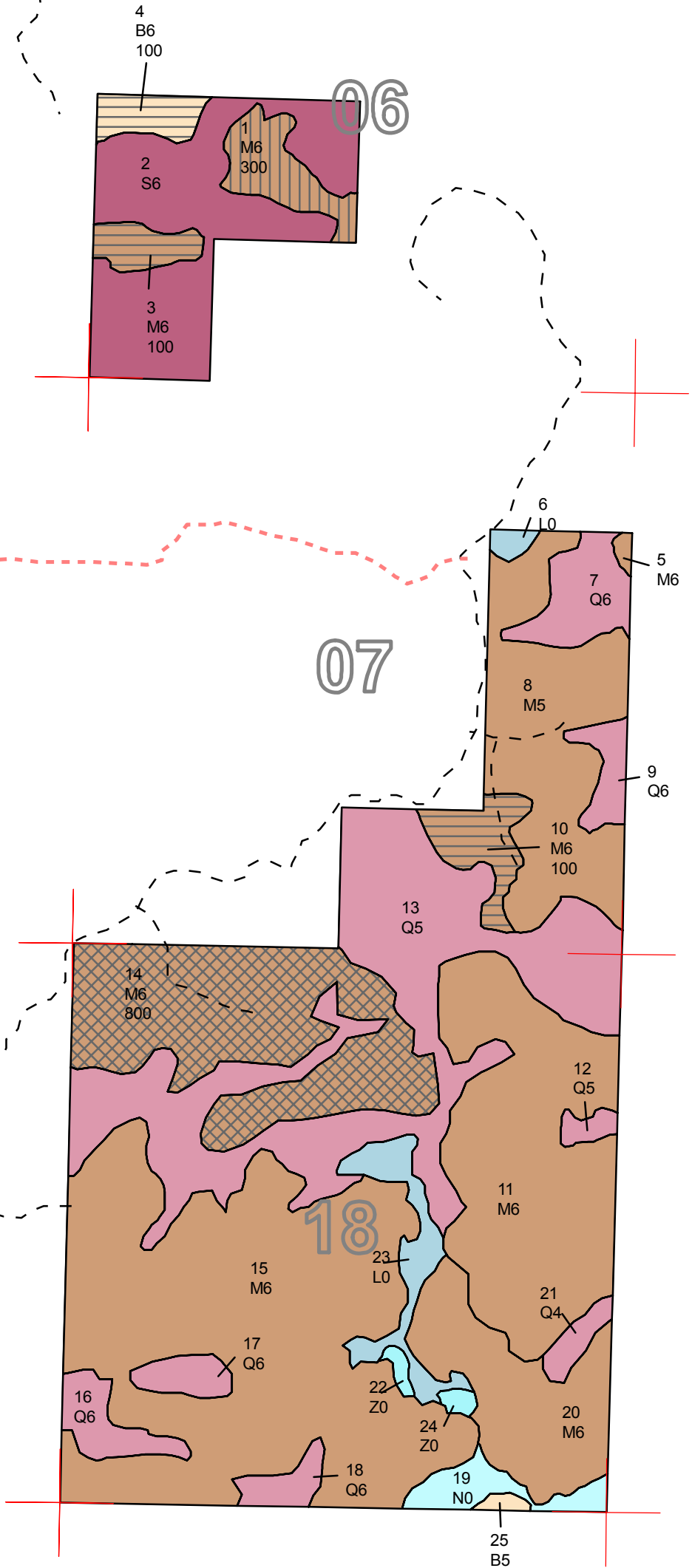
Cover Type and Treatment



06
 07
 18

Legend

- Miris Corners
- Gravel
- Poor Dirt
- Winter/Poor Dirt
- Closed
- Gwi217_stand_boun.shp
- 100 - Final Harvest
- 300 - Shelterwood - Seed
- 800 - Selection
- B - Paper Birch
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- Q - Mixed Swamp Conifers
- S - Black Spruce Swamp
- Z - Water



14

13

18

17

23

24

19

20



88°8'0"W 88°7'0"W 88°6'0"W

46°35'0"N

46°34'0"N

46°33'0"N

46°35'0"N

46°34'0"N

46°33'0"N

Compartment 217
 T48N, R30W, Sec. 6, 7, 18
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 Map Phase: Pre-review

Stand Boundary Map

31

32

06
 07
 18

N
 DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

Legend

- Miris Corners
- = = Gravel
- - Poor Dirt
- - - Winter/Poor Dirt
- - - Closed
- Stand Boundary

1

06

05

0

11

12

07

08

14

13

18

17

23

24

19

20

Orin Lake Rd

0.5 0 1 Miles

