



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 220

ENTRY YEAR: 2008
Compartment Acreage: 1,961
County: Mackinac

Revision Date: June 8, 2006

Stand Examiner: Ken Phillips

Legal Description: Sections 21, 22, 23, and 24 on Bois Blanc Island

Management Unit Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: Soils are quite shallow but they tend to be fairly productive. Changes in topography are generally subtle but slight changes in elevation often result in major changes in species composition.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Solid State ownership within the compartment boundaries. A large block of State-owned land which is formally dedicated as a Natural Area adjoins this compartment to the north. Very limited development has been occurring on adjacent privately owned lands to the east and west.

Unique, Natural Features: Many rare or threatened animal species occur either within or nearby this compartment including the Eagle, Osprey, Loon, Red-shouldered hawk and the Massasuga rattlesnake.

Archeological, Historical, and Cultural Features: The remnants of two log cabins were discovered within the compartment. The foundation of a State fire tower can be found in stand # 37.

Special Management Designations or Considerations: The recent discovery of Beech Bark disease may have future management implications for the northern hardwood timber resource within this compartment.

Watershed and Fisheries Considerations: The compartment borders portions of Echo, Duncan, and Thompson Lakes. These lakes are popular warm water fisheries and are serviced by road end access sites. These lake access sites receive no maintenance by the Department. Twin Lake Creek, as well as other small unnamed streams flow through this compartment into the inland lakes. These streams are very narrow and typically have been impounded by beaver activity. The prescribed management actions are appropriate for the protection of these water bodies.

Wildlife Habitat Considerations: This compartment is part of Bois Blanc Island. There are large areas of this island that will not be cut due to poor access. Thinning some of the hardwood will help increase structural diversity and will provide more habitat for some wildlife species. Thinning the hardwoods may also help reduce the effects of beech bark disease. This compartment has a large coniferous swamp component which provides good winter deer habitat. A deer and rabbit enclosure is located in stand #35. This enclosure has apparently been maintained since 1956.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel, sometimes thin to discontinuous. The glacial drift thickness is thin to discontinuous. The Devonian Bois Blanc Formation subcrops below the glacial drift. The Bois Blanc could be/are quarried for stone. Fire Tower gravel pit is located in Section 23 (S&G Lease 149) and potential is possible in other areas. The nearest oil and gas production, the Niagaran Reef Trend, is located many miles to the south. There is no known oil and gas potential in the area.

Vehicle Access: There is very limited access to most interior portions of the compartment. The County maintained Fire Tower Road (Central Drive) provides primary access. Two additional County maintained spur roads provide access to Duncan and Echo lakes.

Survey Needs: No work is essential in order to carry out the currently prescribed forest management treatments. Enough previous work has been done so that boundaries should be identifiable.

Recreational Facilities and Opportunities: No formal recreational facilities exist, however, the two road end boating access sites are often used as rustic campsites.

Fire Protection: This compartment essentially has no highly volatile fuel types. A very limited road system would, however, make response to a remote wildland fire extremely difficult.

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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

MACKINAC COUNTY

COMPARTMENT: 220

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	3																										3
S Black Spruce		19																									19
V Bog or Marsh			106																								106
C Cedar				94																							94
L LowInd Brush									4																		4
P LowInd Poplr										99																	99
Q Mx Swmp Cnfr												708															708
X Non Stocked													4														4
B Paper Birch															350												350
F Spruce Fir																			14								14
E Swamp Hrdwds																				78							78
M Upland Hdwds																								472			472
Z Water																									10		10
Total	3	19	106	94					4	99		708	4		350				14	78				472	10	1961	

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

MACKINAC COUNTY

COMPARTMENT: **220**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	21432 Cds	Hardwood	858 Cds
Hardwood	701 Mbf	Hardwood	108 Mbf
Softwood	14516 Cds	Sum CutVol	1074 Cds
Softwood	909 Mbf		
Sum TotVol	39168 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1961		179	

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 220 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
12	M9	6	86	70	northern hardwood	mature	selection	2		
comnts Fmd : THESE ARE FAIRLY NICE QUALITY HARDWOODS. THE SUGAR MAPLE LOGS ARE ESPECIALLY NICE. THE OVERALL STAND BASAL AREA IS NOT VERY HIGH BUT WE MAY WANT TO REMOVE SOME OF THE BEECH NOW AHEAD OF THE ADVANCING FRONT OF THE BEECH BARK DISEASE. SINCE THE VOLUME AND VALUE OF THE PRODUCTS TO BE REMOVED WOULD BE QUITE LOW, WE MIGHT BEST BE ABLE TO GET THIS THINNED USING THE LOCAL FIREWOOD MARKET.										
13	M9	20	86	70	northern hardwood	mature	selection	2		
comnts Fmd : THESE ARE FAIRLY NICE QUALITY HARDWOODS. THE SUGAR MAPLE LOGS ARE ESPECIALLY NICE. THE OVERALL STAND BASAL AREA IS NOT VERY HIGH BUT WE MAY WANT TO REMOVE SOME OF THE BEECH NOW AHEAD OF THE ADVANCING FRONT OF THE BEECH BARK DISEASE. SINCE THE VOLUME AND VALUE OF THE PRODUCTS TO BE REMOVED WOULD BE QUITE LOW, WE MIGHT BEST BE ABLE TO GET THIS THINNED USING THE LOCAL FIREWOOD MARKET.										
16	M9	153	86	70	northern hardwood	mature	selection	2		
comnts Fmd : THESE ARE FAIRLY NICE QUALITY HARDWOODS. THE SUGAR MAPLE LOGS ARE ESPECIALLY NICE. THE OVERALL STAND BASAL AREA IS NOT VERY HIGH BUT WE MAY WANT TO REMOVE SOME OF THE BEECH NOW AHEAD OF THE ADVANCING FRONT OF THE BEECH BARK DISEASE. SINCE THE VOLUME AND VALUE OF THE PRODUCTS TO BE REMOVED WOULD BE QUITE LOW, WE MIGHT BEST BE ABLE TO GET THIS THINNED USING THE LOCAL FIREWOOD MARKET.										
Total Acres.....		179								

**Proposed Treatments
With Limiting Factors**

Compartment: 220 **Entry Year: 2008**

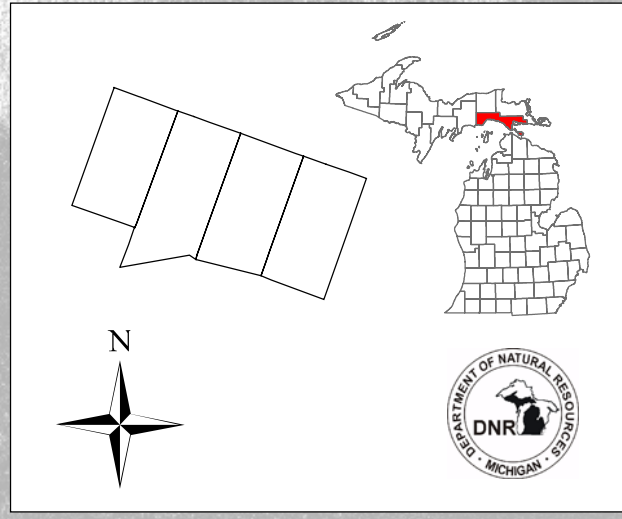
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 220
 Lotlines, Sec. 21-24
 County: Mackinac
 Unit: Gaylord
 YOE: 2008
 Acres: 1,961 GIS Calculated
 Stand Examiner: Kendall Phillips
 Map Revised: 4/26/2006
 Map Phase: Pre-review



Legend

- County Gravel Roads
- Poor Dirt Roads
- Water Features
- Stand Boundary
- 800- Selection

