



**GAYLORD FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT: 6**

**ENTRY YEAR: 2008**  
**Compartment Acreage: 482**  
**County: OTSEGO**

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**Revision Date:** 4/7/2006

**Stand Examiner:** GATESY

**Legal Description:** T29N R01W Section 23

**Management 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:** Roselawn, Grayling and Rubicon Sands on the upland and Lupton Muck on the lowlands. Generally the topography is level with gentle slopes however there are steep slopes in some locations adjacent to Big Creek. There are some bogs which are sunken below the general level of the land in the compartment.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The southeast corner of the compartment is bounded by 7<sup>th</sup> Spectacle Lake that has seasonal and year round residents. Hunting, fishing and berry picking are the primary land uses.

**Unique, Natural Features:** The West Branch of Big Creek.

**Archeological, Historical, and Cultural Features:** None known.

**Special Management Designations or Considerations:** The West Branch of Big Creek, which is part of the AuSable River Natural River Designation, flows through the compartment.

**Watershed and Fisheries Considerations:** W Br Big Creek is a marginal trout stream at this point due to the lake outlets. From a fisheries perspective, it is acceptable in this instance to final harvest near the river as prescribed. This is an opportunity to manage for diverse wildlife communities with minimal impact on the fishery. The W Br. Big Creek is a designated natural river, so there may be some buffer zone limitations associated with that designation.

**Wildlife Habitat Considerations:** This compartment is within 2 miles of a Kirtland Warbler management unit. An eagle nest lies to the NW of the compartment and will have to be taken into consideration when cutting in the NW ¼. The west branch of Big Creek runs through the western part of the compartment. There are beaver present on this stream which provides habitat for otter amphibians and waterfowl. It is primarily upland and most stands are a mixture of aspen oak, red and jack pine. Maintenance of the oak for mast production is important. There is a diversity of age classes in the aspen and oak and this will be maintained by timber harvesting.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. The Mississippian Coldwater Shale subcrops below the glacial drift. The Coldwater does not have an economic use. The nearest gravel pit is located five miles to the north, but there may be potential on the uplands. The compartment appears to be mostly developed for Antrim Shale gas production and is located south of the Niagaran reef trend.

**Vehicle Access:** The only legal access is from the end of Nuenfelt Road or by way of the Enbridge Pipeline which crosses State land.

**Survey Needs:** May require a survey adjacent to the property owners on Caulkins Lake Rd. if corners can not be located.

**Recreational Facilities and Opportunities:** The North Spur of the Michigan Shore to Shore Riding and Hiking Trail runs through the compartment.

**Fire Protection:** The 735 acre Caulkins Lake Fire burned most of this compartment on May 5, 1980. It has completely recovered. The Big Creek Fire burned the southwest quarter of this compartment as well as parts of adjacent compartments including sections 22, 23, 25, 26, 27, 35 and 36 on May 20, 1981 and it too has completely recovered.

#### **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

OTSEGO COUNTY

COMPARTMENT: 6

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	154																										154
S Black Spruce		7																									7
V Bog or Marsh			13																								13
G Grass					7																						7
J Jack Pine							63																				63
L LowInd Brush									45																		45
Q Mx Swmp Cnfr												12															12
O Oak														111													111
R Red Pine														7		20											27
T Tamarack																					18						18
Z Water																									10	10	
W White Pine																										15	15
<b>Total</b>	154	7	13		7		63		45			12		118		20					18				10	15	482

MACKINAW STATE FOREST

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1716 Cds	Hardwood	205 Cds
Hardwood	411 Mbf	Hardwood	338 Mbf
Softwood	867 Cds	Softwood	72 Cds
Softwood	419 Mbf	Softwood	128 Mbf
Sum TotVol	4243 Cds	Sum CutVol	1209 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
482		134	

**GAYLORD FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 6**

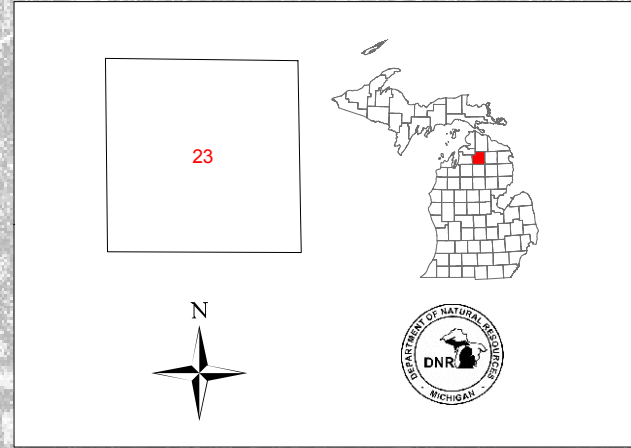
**Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>15</b>	<b>O8</b>	19	77	60	oak	mature	final harvest	2		
comnts Fmd : SWNW. Cut with adjacent stand, compartment 5, 2011 YOE. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak. Thin within 150' of West Br. Big Creek - leave oak and white pine. Final harvest beyond. No cut within 50' of Big Creek.										
<b>28</b>	<b>R8</b>	7	101	58	oak	mature	final harvest	2		
comnts Fmd : Center NE. Red pine logs overtopping aspen and oak regeneration. Protect oak regeneration. Reproduction can be red pine, oak, red maple, jack pine or a combination of these.										
<b>Total Acres.....</b>		<b>26</b>								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>3</b>	<b>O8</b>	43	91	54	oak	mature	shelterwood-seed	2		
TREATMENT LIMITING FACTORS: Retention of stand for regeneration purposes (ie. shelterwood)										
comnts Fmd : E1/2NE. Advanced oak regeneration generally adequate. Leave some large scattered white oak for cover and mast production. Leave pine for aesthetics, seed and cover. Thin pine where applicable and/or remove some mature red pine to open up stand where needed. Residual BA may be less than OI PC indicates after harvest. Regeneration can be oak, aspen, red maple, white pine, red pine, or jack pine. Reproduction can be red pine, balsam fir, oak, red maple, jack pine or a combination of these.										
<b>11</b>	<b>J8</b>	7	89	48	jack pine	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Threatened, endangered, and special concern species/communities Neighbor										
comnts Fmd : NWNW. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak. T & E species proximity may preclude cut. No cut within 150' of West Br. Big Creek for Natural River buffer.										
<b>25</b>	<b>O9</b>	33	82	53	oak	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Threatened, endangered, and special concern species/communities Neighbor										
comnts Fmd : N1/2NW. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak. Proximity to houses must be considered while preparing timber sale. Leave super canopy oak and white oak. Leave oak along private line. No cut within 150' of West Br of Big Creek which is a Natural River. T & E species proximity may preclude cut.										
<b>33</b>	<b>R9</b>	3	101	58	red pine	mature	selection	2		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access										
comnts Fmd : NESW. Reproduction can be red pine, balsam fir, oak, jack pine, aspen or white pine or a combination of any of these. Light thinning to remove mature pine.										
<b>37</b>	<b>R9</b>	8	101	58	red pine	mature	selection	2		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access										
comnts Fmd : SESW. Reproduction can be red pine, balsam fir, oak, red maple, jack pine or a combination of these.										
<b>103</b>	<b>O8</b>	14	91	54	oak	mature	shelterwood-seed	2		
TREATMENT LIMITING FACTORS: Retention of stand for regeneration purposes (ie. shelterwood)										
comnts Fmd : E1/2NE. Advanced oak regeneration generally adequate. Leave some large scattered white oak for cover and mast production. Leave pine for aesthetics, seed and cover. Thin pine where applicable and/or remove some mature red pine to open up stand where needed. Residual BA may be less than OI PC indicates after harvest. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak.										
<b>Total Acres.....</b>		<b>108</b>								

# Field Map

Compartment 6  
 T29N, R01W, Sec. 23  
 County: Otsego  
 Unit: Gaylord  
 YOE: 2008  
 Acres: 482 GIS Calculated  
 Stand Examiner: Greg Gatesy  
 Map Revised: 4/24/2006  
 Map Phase: Pre-review



## Legend

- County Gravel Roads
- Poor Dirt Roads
- Pipelines
- Water Features
- Stand Boundary
- 100 - Final Harvest
- 300 - Shelterwood-seed
- 800 - Selection

