



**GAYLORD FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT: 18**

**ENTRY YEAR: 2008**  
**Compartment Acreage: 1,125**  
**County: Otsego**

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**Revision Date:** 4-20-2006

**Stand Examiner:** K.Lentz

**Legal Description:** T29N, R3W, Sections 14, 15, 22 & 24

**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:** Mainly Roselawn-Rubicon Sands, Roselawn Sand and Wexford Loamy Sand with some Kalkaska-Wexford Sands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Ownership around the State land in the compartment is mostly private. There are many small lakes throughout the compartment. Land use is recreation and hunting.

**Unique, Natural Features:**

**Archeological, Historical, and Cultural Features:**

**Special Management Designations or Considerations:** Extensive gas well development in the compartment which is currently being maintained by Inervest Company. The gas facility located on Viking Club Road is managed by Muskegon Development.

**Watershed and Fisheries Considerations:** Compartment 18 contains a number of lakes in the North Branch Au Sable River watershed. Big Chub Lake is annually stocked with rainbow trout, and is part of a strain performance evaluation for that species. The management actions proposed for this compartment are appropriate for protection of these waterbodies. There is no water features on the State land. The adjacent private land in sections 14, 23 & 24 has a series of lakes including Big Chub Lake, Linton Lake, Bridge Lake, Belmore Lake, Island Lake, Bass Lake and Viking Lake.

**Wildlife Habitat Considerations:** This compartment is all upland and is mostly good quality oak, aspen and red pine. There are some smaller areas of northern hardwood. This area has been heavily impacted by oil and gas development. The large amount of oak and younger aspen provides cover to game species and results in a lot of hunter recreation in this area. Maintenance of early successional age classes and mast producing oaks is important and was considered in the management prescriptions.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of ice-contact outwash sand and gravel. 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 one mile to the northwest and potential is good. Most of the compartment has been developed for Antrim Shale gas production. The Niagaran reef trend is located in this area and there may be additional potential for Niagaran reefs.

**Vehicle Access:** Old State Road (F-38) is a paved county road along the north boundary of the compartment. There is also good access with county gravel roads such as Salem Road, Chub Lake Road and Viking Club Road. The State land also includes numerous buried gas pipeline trail roads throughout all these sections.

**Survey Needs:** None needed at this time.

**Recreational Facilities and Opportunities:** Although there are no designated recreational trails within this compartment, the trail roads are used for access for hunting.

**Fire Protection:**

**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: 18

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	340																										340
G Grass					37																						37
X Non Stocked													5														5
O Oak														364													364
R Red Pine																244											244
U Upland Brush																								51			51
M Upland Hdws																									54		54
W White Pine																										30	30
Total	340				37								5	364		244								51	54	30	1125

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 18

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3356 Cds	Hardwood	1386 Cds
Hardwood	998 Mbf	Hardwood	114 Mbf
Softwood	5616 Cds	Softwood	1424 Cds
Softwood	271 Mbf	Softwood	12 Mbf
Sum TotVol	11510 Cds	Sum CutVol	3062 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	296
1125			

**GAYLORD FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 18**

**Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
1	O9	13	78	55	oak	mature	selection	1	natural regeneration		
comnts Fmd : Select cut to species thin out aspen & some red maple clumps. Leave BA higher along Old State Road. South part of stand has good quality Aspen logs.											
3	O9	29	79	58	oak	mature	selection	1	natural regeneration		
comnts Fmd : MARK R.MAPLE TO REDUCE BA & MAKE SOME REGENERATION HOLES BY OAK. Cut all aspen, white birch, mark oak & red maple.											
5	A5	18	55	55	aspen (upland)	immature	final harvest	1	natural regeneration		
comnts Fmd : Prescribed final harvest. Leave any scattered red or white pine.											
13	R6	55	46	55	red pine	immature	thinning	1			
comnts Fmd : Third row thin & remove aspen in cut rows only. In areas with aspen clones, cut only 1/3 following the third row pattern. Inclusions of 1/4 acre frost pockets with a few scattered red pine & pin cherry more like an upland brush type.											
14	M6	20	80	60	northern hardwood	mature	shelterwood-seed	1	natural regeneration		
comnts Fmd : Low quality red maple of stump sprout origin. Some aspen clones & white birch. Cut all aspen, white birch, & red maple, leaving any oak & red pine.											
17	R6	12	46	58	red pine	mature	thinning	1			
comnts Fmd : Red pine never thinned. Prescribed third row thinning, removing only 1/3 of any other miscellaneous species within the cut rows.											
22	R6	9	46	55	red pine	mature	thinning	1			
comnts Fmd : Prescribe third row thinning.											
26	R6	4	46	55	red pine	mature	thinning	1			
comnts Fmd : Prescribe third row thinning.											
27	A5	7	60	56	aspen (upland)	mature	final harvest	1			
comnts Fmd : Low volume, low value aspen that is dying out. Cut to regenerate aspen into a more vigorous stand. Leave any scattered red pine throughout.											
30	M6	16	79	65	northern hardwood	mature	shelterwood-seed	1	natural regeneration		
comnts Fmd : Stand previously had more white birch, but some mortality has occurred. Prescribe a shelterwood-seed cut to remove aspen, white birch, and half of the red maple. Leave any scattered oak, white pine, or red pine. Create a buffer along Chub Lake Drive when establishing the cutting lines.											
33	R6	43	46	55	red pine	immature	thinning	1			
comnts Fmd : Third row thin & remove aspen in cut rows only. In areas with aspen clones, cut only 1/3 following the third row pattern. Inclusions of 1/4 acre frost pockets with a few scattered red pine & pin cherry more like an upland brush type. Note: This is the same stand as 13, and will receive the same treatment.											
36	R9	15	79	60	red pine	immature	thinning	1			
comnts Fmd : Stand of natural red pine sawtimber. Species thin to remove aspen, red maple, white birch. Leave all red pine & oak. Stand did have a selective red pine log harvest done once in the past.											
37	R6	55	46	55	red pine	immature	thinning	1			
comnts Fmd : Third row thin & remove aspen in cut rows only. In areas with aspen clones, cut only 1/3 following the third row pattern. Inclusions of 1/4 acre frost pockets with a few scattered red pine & pin cherry more like an upland brush type. Note: This is the same stand as 13, and will receive the same treatment.											
<b>Total Acres.....</b>		<b>296</b>									

**Proposed Treatments  
With Limiting Factors**

**Compartment: 18**

**Entry Year: 2008**

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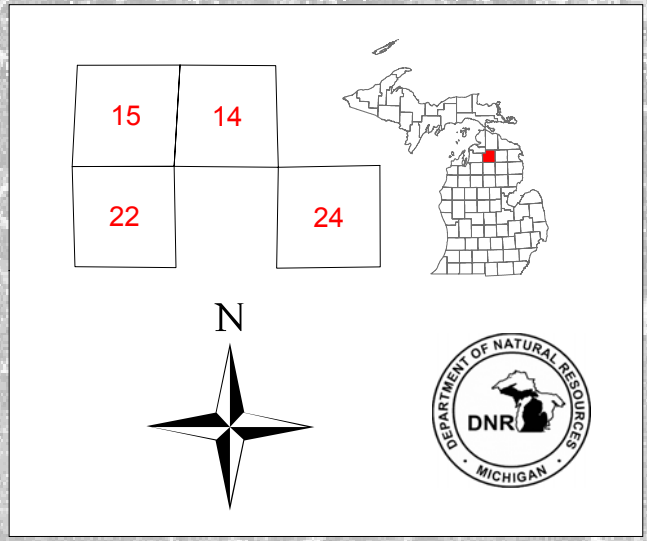
TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 18  
 T29N, R03W, Sec. 14-15, 22, 24  
 County: Otsego  
 Unit: Gaylord  
 YOE: 2008  
 Acres: 1,125 GIS Calculated  
 Stand Examiner: Kim Lentz  
 Map Revised: 4/24/2006  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Pipelines
- Stand Boundary
- 100 - Final Harvest
- 146 - Final Harvest/Natural Regeneration
- 346 - Shelterwood-seed/Natural Regeneration
- 400 - Thinning
- 846 - Selection/Natural Regeneration

