



**ATLANTA FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 75 ENTRY YEAR: 2007**

**Compartment Acreage:1015**

**County: Montmorency**

---

**Revision Date:** October 19, 2005

**Stand Examiner:** Robert Theiner

**Legal Description:** T-32-N, R-03-E, Sections 25, 26, 35 and 36

**Management Goals:** The compartment is mostly aspen and in the past has had numerous treatments, leaving the compartment with very little timber opportunities this entry.

**Soil and Topography:** Millersberg-Klacking-Horsehead Association in the majority of the compartment with Graycalm-Horsehead Association in the east, level gently rolling to very hilly, excessively to well drained, sandy and loamy soils on moraines.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is typical for an area with an inland lake in Northern Michigan, the private lands are mostly developed with both seasonal and permanent residences. Grass Lake Resort is on the north end of the lake. Several areas in this compartment have trespass issues, some are being investigated while others are trying to be resolved. Illegal O.R.V. operation is quite common off Kaverly Trail.

**Unique, Natural Features:** Species have been listed.

**Archeological, Historical, and Cultural Features:** Sites have been listed.

**Watershed and Fisheries Considerations:** Grass Lake, a flooded lake, dominates this compartment. The dam is located on the north east end.

**Wildlife Habitat Considerations and Objectives:**

This compartment is located in Montmorency County approximately six miles northwest of Hillman and 8 miles northeast of Atlanta. The topography is somewhat flat and Grass Lake is in the center of the compartment. The compartment is part of a 36 sq. mil landscape dominated by State Forest Lands.

The compartment is located in Ecoregion VII.6.1, a broad flat outwash plain with excessively drained sandy soils. Kotar's cover typing system classifies this compartment as a pine management unit with PArVHa-PArVVb over most of the area. Fire history in this area has been one of infrequent catastrophic stand replacing fires. GLO data suggest the northern half of the compartment was a mix of red and white pine on the uplands and tamarack on the low areas. The southern half supported a mix of red and jack pine on the uplands and tamarack on the low areas. A deer model implies that this landscape would move from aspen/birch to white pine and northern hardwoods through natural succession. Today aspen (60%), oak (15%), lowland brush (6%), black spruce (5%), openings (5%) and mixed swamp conifers make up 95% of this compartments habitat.

Today this compartment provides a high (850+ acres) habitat potential for bear, red fox, brown snake, garter snake, coyote, northern short-tailed shrew, masked shrew, long-tailed weasel and southern red-backed vole to name only a few species. The planned treatments along with succession over the next ten years will have little to no negative impact on the above listed species; however, the habitat will be enhanced for bobcat, elk, robin and a whole host of woodland raptors.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Formation. The Antrim is quarried for cement products and the Traverse for limestone. A gravel pit is located in Section 24 and potential is good. The Compartment has no wells drilled near it. This area has very limited potential for the Antrim Shale. There are no oil and gas leases in the

**Vehicle Access:** Access into the compartment, in the north, off Co. Rd. 628, in the south, off Co. Rd. 624.

**Survey Needs:** A survey request was made in January, 2005 to determine boundaries near the public access, other requests may be needed near the dam location.

**Recreational Facilities and Opportunities:** A public access site is located on the south side of Grass Lake at the end of Grass Lake Rd. Sorensen's Resort is a private campground on the north side of Grass Lake. Area is used extensively for fishing and hunting.

**Fire Protection:** This compartment is located in the protection area of the Atlanta DNR and the Hillman Fire Department. Hillman Fire department would most likely be first on scene of any fire in the area due to their

close proximity to the area. The Atlanta DNR has mutual aid agreements with Hillman Fire Department and also supplies them with GSA 6x6 fire unit. This area has a lower potential of major fire growth. Several fires have occurred in the general area.

**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**

09/01/2005 3:40:52 PM

Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 75

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		67	33	25	224	199		14	43										605
Black Spruce						5	10		32										47
Bog or Marsh	4																		4
Cedar													3						3
Grass	50																		50
Jack Pine							3		9										12
LowInd Brush	57																		57
Mx Swmp Cnfr								2	7	19	5	7							40
Non Stocked	9																		9
Oak			6					10	83	13	18							16	146
Red Pine						14													14
Swamp Hrdwds									15										15
Tamarack								8											8
Upland Brush	5																		5
<b>Total</b>	<b>125</b>	<b>67</b>	<b>39</b>	<b>25</b>	<b>224</b>	<b>218</b>	<b>13</b>	<b>34</b>	<b>189</b>	<b>32</b>	<b>23</b>	<b>7</b>	<b>3</b>					<b>16</b>	<b>1015</b>

09/01/2005 3:40:58 PM

Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 75

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	605																										605
S Black Spruce		47																									47
V Bog or Marsh			4																								4
C Cedar				3																							3
G Grass					50																						50
J Jack Pine							3									9											12
L Lowlnd Brush									57																		57
Q Mx Swmp Cnfr												40															40
X Non Stocked													9														9
O Oak														146													146
R Red Pine																14											14
E Swamp Hrdwds																				15							15
T Tamarack																					8						8
U Upland Brush																								5			5
<b>Total</b>	<b>605</b>	<b>47</b>	<b>4</b>	<b>3</b>	<b>50</b>		<b>3</b>		<b>57</b>			<b>40</b>	<b>9</b>	<b>146</b>		<b>23</b>				<b>15</b>	<b>8</b>		<b>5</b>			<b>1015</b>	

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: **75**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6393 Cds	Hardwood	102 Cds
Hardwood	314 Mbf	Softwood	230 Cds
Softwood	1371 Cds	Softwood	56 Mbf
Softwood	205 Mbf	Sum CutVol	444 Cds
Sum TotVol	8802 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	29
1015			

**ATLANTA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 75**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
47	R6	14	45	60	red pine	immature	thinning	1		
comnts Fmd : Stand extends into the compartment to the south, treat the stand!										
48	J9	9	75	55	red pine	immature	final harvest	1	planting	
comnts Fmd : Leave Red Pine saw timber along and near Grass Lake Road, for visual.										
403	G0	2		65	grass	nonstocked		0	opening maintenance	
443	G0	5		60	grass	nonstocked		0	opening maintenance	
449	G0	16		60	grass	nonstocked		0	opening maintenance	
comnts Fmd : Stand was trenched for planting in the past. Is turning into a U- type with jack pine and other tree species moving in.										
<b>Total Acres.....</b>		<b>46</b>								

**ATLANTA FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 75**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
28	A5	4	70	60	aspen (upland)	mature	final harvest	3		

TREATMENT LIMITING FACTORS: Too wet

comnts Fmd : Low ground, could consider cutting when stand 29 is ready.

60	A5	2	70	60	aspen (upland)	mature	final harvest	3		
----	----	---	----	----	----------------	--------	---------------	---	--	--

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : Low ground, could consider cutting when stand 29 is ready.

**Total Acres..... 6**

# Field Map

Compartment 75  
 T32N, R3E, Sec. 25, 26, 35, 36  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2007  
 Acres: 1,015 GIS Calculated  
 Stand Examiner: Robert Theiner  
 Map Revised: 8/30/2005  
 Map Phase: Pre-review

**Legend**

- ◆ RLS Corners
- Miris Corners
- - Poor Dirt Roads
- Powerlines
- Public Access Site
- × Gates
- Dam
- Stand Boundary
- ▨ Biodiversity Area
- ▧ 026 - Opening maintenance
- ▨ 100 - Final harvest
- ▨ 116 - Final harvest/Planting
- ▨ 400 - Thinning
- ▨ County Gravel Roads
- ▨ Gravel Roads
- Name Poor Dirt Roads
- Name Water Features

