



**ATLANTA FOREST MANAGEMENT UNIT**  
**COMPARTMENT REVIEW PRESENTATION**  
**COMPARTMENT # 33 ENTRY YEAR: 2007**

**Compartment Acreage: 1283      County: Montmorency**

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**Revision Date:** October 19, 2005

**Stand Examiner:** Barber

**Legal Description:** T31N, R1E, Sec. 19, 30 & 31

**RMU (if applicable):**

**Management Goals:** Management of northern hardwoods and oak on rolling hills. Conservation of Green Swamp—headwaters of East Branch of the Black River.

**Soil and Topography:** Rolling to steep hills. Soils are sandy to loamy sands. Green Swamp is organic soil and flat.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** There is some farming in the compartment. This is the east edge of an area of farming which runs toward Johannesburg.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** Reported. MNFI has expressed concerns over habitat degradation.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None Reported.

**Special Management Designations or Considerations:** Green Swamp is potential old growth plus free throwing stream. Several very steep oak stands are also potential old growth. There are beaver influenced stands north of the Green Swamp. The elk viewing area has a wildlife consideration.

**Watershed and Fisheries Considerations:** No special considerations exist for this compartment.

**Wildlife Habitat Considerations:** This compartment is located approximately 8 miles northwest of Atlanta and ten miles north of Lewiston, along the west-central Montmorency County line. The landscape of this compartment is a mix of upland moraine ridges with wetland outwash in the center of the compartment.

The compartment is part of the Ecoregion VII.2.3 with steep moraine ridges with well drained sandy loam soils at the north and south portions of the landscape and narrow outwash channel wetlands with very poorly drained peat/muck soils. Kotar's cover typing system indicates the area as a northern hardwood management unit with AFO type associated with the northern hardwoods and PArVVb-AFO linked to the oak areas. A deer habitat potential model implies that this landscape will eventually go to white pine and red maple on the uplands and cedar/hemlock in the low areas. GLO data supports that assumption with information showing northern hardwoods on the uplands and cedar in the outwash channels. Fire history on this landscape suggests the area had infrequent stand replacing fires. Today 95% of the habitat in this compartment consists of upland hardwoods (30%), oak (29%), mixed swamp conifers (24%), aspen (7%) and openings (5%).

Today's habitat type and mixes provide a high potential for raccoons, northern myotis, bear, red fox, coyote, bobcat, elk, deer, long-tailed weasel, masked shrew and deer mouse to mention only a few species. The planned forest treatments and opening maintenance work will continue to support these species. The Wildlife Division maintains an elk viewing area in the northern portion of this compartment. Food and cover crops are planted to attract and hold elk in the area to be viewed by the public.

**Mineral Resource and Development Concerns and/or Restrictions:** Green Swamp is non-development. The balance is development with restrictions. Surface sediments consist of an end moraine of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Mississippian Coldwater and Sunbury Shales and the Devonian Berea Sandstone and Bedford Shale. The Bedford is quarried for cement products elsewhere in the State. A gravel pit is located in Section 31 and potential is considered good on the upland areas. This area has been drilled and is producing gas from the Antrim Shale and also has producing Niagaran reef wells.

**Vehicle Access:** Roads to be closed as shown on Road Closure map.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** Elk viewing Area. Gravel pit used for target practice. Numerous hills used for illegal hill climbing.

**Fire Protection:** This compartment is located in the protection area of the Atlanta DNR and the Vienna Township Fire Department located in Vienna. This fire department would most likely be first on scene of any fire in the area due to their close proximity. The Atlanta DNR has a mutual aid agreement with Vienna Township Fire Department and also supplies them with a GSA 6x6 fire unit. There has been a history of numerous hardwood fires due to mushrooming. This occurs during the spring fire season because it coincides with the black and white moral mushroom season. Gaylord field office also places equipment on standby in Johannesburg during times of high fire danger.

**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

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 33

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			29		33				21										83
Bog or Marsh	1																		1
Cedar																		11	11
Grass	64																		64
Lowlnd Poplr					34														34
Mx Swmp Cnfr								4	22	281									307
Non Stocked	23																		23
Oak									82	78								204	364
Swamp Hrdwds									14										14
Treed Bog								4											4
Upland Hdwds			124	18														236	378
<b>Total</b>	<b>88</b>		<b>153</b>	<b>18</b>	<b>67</b>			<b>8</b>	<b>139</b>	<b>359</b>								<b>451</b>	<b>1283</b>

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

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 33

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	83																										83
V Bog or Marsh			1																								1
C Cedar				11																							11
G Grass					55																		9				64
P Lowlnd Poplr										34																	34
Q Mx Swmp Cnfr												307															307
X Non Stocked													23														23
O Oak														364													364
E Swamp Hrdwds																				14							14
D Treed Bog																							4				4
M Upland Hdwds																								378			378
<b>Total</b>	83		1	11	55					34		307	23	364						14		4	9	378			1283

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: **33**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7271 Cds	Hardwood	220 Cds
Hardwood	2036 Mbf	Hardwood	46 Mbf
Softwood	6884 Cds	Sum CutVol	312 Cds
Softwood	558 Mbf		
Sum TotVol	19343 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	38
1283			

**ATLANTA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 33**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>31</b>	<b>M9</b>	38		75	northern hardwood	unevenaged	thinning	1		
comnts Fmd : Stay of steep slopes. Part of stand is already marked. Sale barely started, then never finished.										
Wld : Finish thinning project. Leave tree length with tops spec in sale.										
<b>401</b>	<b>G0</b>	6		60	grass	nonstocked		0	opening maintenance	
comnts Fmd : west of ELK PASTURE-ELK VIEWING AREA-has a gas well.										
Wld : elk viewing area. Maintain with food and cover crops. Keep trail passable and viewing area maintained.										
<b>402</b>	<b>G0</b>	30		60	grass	nonstocked		0	opening maintenance	
comnts Fmd : ELK PASTURE-ELK VIEWING AREA-GUARD RAILS FOR TRAFIC. MOWED 1994										
Wld : elk viewing area. Maintain with food and cover plantings. Maintain observation area.										
<b>404</b>	<b>G0</b>	3		60	upland brush	nonstocked		0	other - specify in remarks	
comnts Fmd : west of ELK PASTURE-ELK VIEWING AREA.										
Wld : Stand not manageable as an opening. Allow to brush in with natural succession and convert to 'U' type										
<b>407</b>	<b>G0</b>	6		65	upland brush	nonstocked		0	other - specify in remarks	
comnts Fmd : Off-Road Vandalism (ORV) on north side of stand, extending north into stand 7.										
Wld : Allow stand to convert to upalnd brush by natural succession. Control ORV access.										
<b>418</b>	<b>G0</b>	9		55	grass	nonstocked		0	opening maintenance	
comnts Fmd :										
Wld : Reclaim and maintain with food and cover plantings.										
<b>Total Acres.....</b>		<b>92</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 33**

**Entry Year: 2007**

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<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>FD Status</b>
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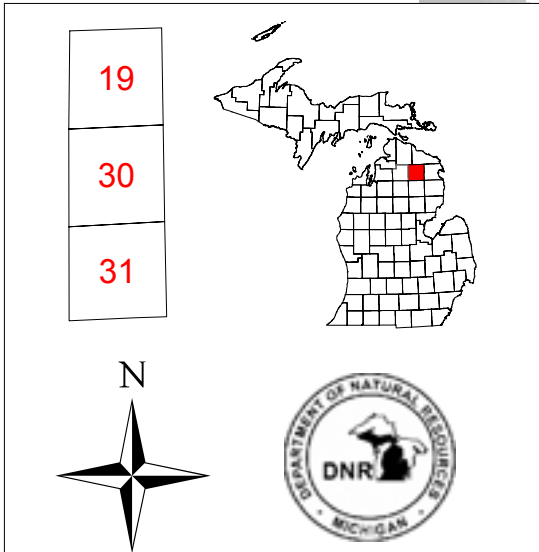
TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 33  
 T31N, R1E, Sec. 19, 30, 31  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2007  
 Acres: 1,283 GIS Calculated  
 Stand Examiner: Richard Barber  
 Map Revised: 8/29/2005  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- - - Poor Dirt Roads
- + -+ - Abandoned Railroads
- Pipelines
- \* Gas Wells
- Stand Boundary
- ▤ Bidiversity/Old Growth Area
- ▥ 026 - Opening Maintenance
- ▦ 098 - Other
- ▧ 400 - Thinning

**Name** County Gravel Roads  
**Name** Paved Roads  
**Name** Gravel Roads

