



**ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #36 ENTRY YEAR: 2008

Compartment Acreage: 1598 County: Montmorency

Revision Date: March 10, 2006

Stand Examiner: Robert Theiner

Legal Description: T-31-N, R-1-E, Sections 23, 24 and 26

Management Goals: Timber management is limited to a strip along Co. Rd. 622, this is mostly a saw timber sized red pine plantation in a PVCd forest habitat type, the goal is to try a seed tree cutting. Previous aspen cuttings, in this compartment, will be approaching age, density and size in the next entry. Terrain north of the Green Swamp restricts timber management due to the Rattlesnake hills. Lowland (Green Swamp) will be managed as a "rich conifer swamp community", "Development adjacent to swamp, timber harvesting, and an old railroad grade that crosses the entire complex from east to west have locally degraded the community." The steep slopes contain pine, oak and aspen, logging here is restricted.

Soil and Topography: Lupton-Tawas Association, level, poorly drained organic soils on outwash plains and in glacial drainage ways. Small portions are Mancelona-Millersburg-Blue Lake Association, level to very steep, well drained and somewhat excessively drained, sandy and loamy soils on moraines. The compartment is dominated by the "Green Swamp" a "rich conifer swamp community", this swamp tends to be cedar, with spruce, fir, tamarack and hemlock inclusions along the edge.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Several parcels within the compartment boundaries are used as hunting/vacation residences. Antrim gas operations have leveled off within the compartment, eight wells are currently on state land within the compartment, several others are located on private lands.

Unique, Natural Features: Several species have been listed.

Archeological, Historical, and Cultural Features: Several sites have been listed.

Special Management Designations or Considerations: Major deer wintering area.

Watershed and Fisheries Considerations: Rattlesnake Creek and the East Branch of the Black River cut through “Green Swamp” complex, both travel north and cross Co. Rd. 622.

Wildlife Habitat Considerations and Objectives:

Mineral Resource and Development Concerns and/or Restrictions:

Sections 23, 24 & 26, T31N-R1E, Montmorency County Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Devonian Berea Sandstone and Bedford and Antrim Shales. The Bedford and Antrim are quarried for cement products elsewhere in the State. A gravel pit is located in 2.5 miles to the south, but potential is good on the upland areas. Most of this Compartment has been drilled and is producing gas from the Antrim Shale.

Vehicle Access: Access into the compartment is along Co. Rd, 622. See road closure map.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: High country pathway traverses through the compartment including a trip to the top of Rattlesnake Hills. Additional recreational use includes big and small game hunting, fishing, and berry picking. Elk and deer viewing is popular in and around this compartment.

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 in this township due to mushrooming. This occurs during the spring fire season as 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.

➤ **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**

09/28/2006 10:41:17 AM

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

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 36

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				43	36	306													385
Cedar											606								606
Grass	44																		44
Jack Pine		4																	4
LowInd Brush											28								28
LowInd Poplr			1							39	16								56
Mx Swmp Cnfr			2								64								66
Non Stocked	2																		2
Oak						10			8	213	2								233
Red Pine								113				1	4						118
Upland Brush	21																		21
Water	35																		35
Total	102	4	3	43	36	316		113	8	252	716	1	4						1598

09/28/2006 10:41:21 AM

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

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 36

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	385																										385
C Cedar				606																							606
G Grass					44																						44
J Jack Pine							4																				4
L LowInd Brush									28																		28
P LowInd Poplr										56																	56
Q Mx Swmp Cnfr												66															66
X Non Stocked													2														2
O Oak														233													233
R Red Pine																118											118
U Upland Brush																								21			21
Z Water																									35	35	
Total	385			606	44		4		28	56		66	2	233		118							21		35	1598	

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 36

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7033 Cds	Hardwood	1154 Cds
Hardwood	451 Mbf	Hardwood	32 Mbf
Softwood	8734 Cds	Softwood	195 Mbf
Softwood	1381 Mbf	Sum CutVol	1608 Cds
Sum TotVol	19431 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1598		209	

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 36

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
6	A5	53	46	63	aspen (upland)	immature	final harvest	1			
comnts Fmd : MANY BIG WP STUMPS. WP SEEDLINGS IN MANY AREAS. CLAY PRESENT IN SOIL RATTLESNAKE HILL. High Country Pathway. Klacking sand. Stay off steep slopes. Keep white and red pine and larger oak.											
16	J0	4	6	50	jack pine	in process of regeneration		0	planting		
comnts Fmd : Cut 2000, sale 25-98. Some cherry, Red pine and White pine, Need to plant FTP # C-54-709. (not complete)											
17	R9	95	67	55	red pine	immature	seed tree	1			
comnts Fmd : Some aspen. Summer harvest for scarification. Plant Jack Pine if Red Pine fails. Allow for 10% to 20% retention. PvCD or a little better. Wait 5 years for natural regeneration.											
19	R9	9	67	51	red pine	immature	seed tree	1	natural regeneration		
comnts Fmd : High Country Pathway. Pockets of Aspen. Klacking sands. Keep 10% to 20% in retention, summer log for scarification. Any mix of regeneration is acceptable. Wait 5 years for natural regeneration. Do not cut oak.											
33	A5	52	44	59	aspen (upland)	immature	final harvest	1			
comnts Fmd : High Country Pathway. Some areas of mature timber, some oak. Klacking Sand. Do not cut Red or white pine, do not cut oak.											
Total Acres.....		213									

**Proposed Treatments
With Limiting Factors**

Compartment: 36

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
--------------	-----------------------	--------------	------------	-----------------------	--------------------	------------------	-----------------------	-----------------------------	--------------------------	-----------------------


















TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 36
 T31N, R01E, Sec. 23, 24, 26
 County: Montmorency
 Unit: Atlanta
 YOE: 2008
 Acres: 1,598 GIS Calculated
 Stand Examiner: Robert Theiner
 Map Revised: 9/13/2006
 Map Phase: Pre-review

Legend

-  Rls Corners
-  Miris Corners
-  County Gravel Roads
-  Service Roads
-  Poor Dirt Roads
-  Powerlines
-  Abandoned Railroad
-  Hiking Trails
-  Water Features
-  Gas Wells
-  Bridge
-  Hiking Trails
-  Stand Boundary
-  Biodiversity/Old Growth Area
-  016 - Planting
-  200 - Set Tree
-  246 - Seed Tree Natural Regeneration

