



**ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #38 ENTRY YEAR: 2007

Compartment Acreage: 1624

County: Montmorency

Revision Date: October 19, 2005

Stand Examiner: Robert Theiner

Legal Description: T-31-N, R-1-E, Sections 25, 35 and 36

Management Goals: Timber management is limited to a strip along Meaford Rd., this is a mix of aspen oak and pine, the goal is to maintain this mix. Terrain on either side of this zone restricts timber management. Lowland 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, northern hardwoods 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. A small subdivision is in the south east corner of the compartment, these are seasonal residences and some encroachment is apparent. Private parcels along the south have recently been subdivided into ten acre parcels. Antrim gas operations have leveled off within the compartment but have increased in the surrounding area.

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: Headwaters of the Rattlesnake Creek. The East Branch of the Black River cuts through “Green Swamp” complex.

Wildlife Habitat Considerations and Objectives:

This compartment is located approximately four miles northwest of Atlanta. It is part of a 50+ sq mi landscape dominated by State Forest Lands. The topography varies from lowland cedar swamp to very steep and high oak and northern hardwood ridges. Portions of the East Branch of the Black River and Rattlesnake Creek flow through this compartment.

The compartment is in Ecoregion VII.2.3 with high moraine ridges supporting hardwoods on well drained sandy loam soils and the wet zones supporting swamp conifers on very poorly drained peat/muck soils. Kotar’s cover typing system classifies this area as wetlands and northern hardwood management units. Cover types of PArVHa are found along the base of the ridge systems while AFO and PArVHa-AFO are found on the high ridges. Fire history indicates the area experienced few or infrequent stand replacing fires. GLO data show that tamarack was found in the northern wet portion of the compartment, cedar on the southern wet areas and northern hardwoods on the high ground. Today cedar (65%), aspen (13%), white pine (4%), and birch & hemlock (6%) dominate the compartments habitat. Past forest, treatments have resulted in 36% of the forest cover still in the seed-sap stage. About 70% of the compartment is designated as a deeryard and wintering area. A deer habitat model indicates this area has high thermal cover, high spring/summer food-cover and low fall-winter food potential.

Today’s habitat distribution and mix supports a wide variety of wildlife species. It is an important area for m. rattlesnakes and seasonal work activities need to be considered when ground disturbance takes place. There is a high habitat potential in this compartment for northern flying squirrels, purple finch, spring peepers, deer, silver-haired bats, brown creeper, bear, red fox, coyote, bobcat, elk, long-tailed weasels and northern short-tailed shrew to mention only a few species. The planned forest treatments and opening maintenance will enhance the habitat for the above-mentioned species. The forest stands in need of treatment or are at the stage of treatment are nominated as limiting factors in O.I. due to the steep topography.

Mineral Resource and Development Concerns and/or Restrictions: 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 Shale. The Bedford is quarried for cement products elsewhere in the State. A gravel pit is located in 1.5 miles to the south and potential is considered good on the upland areas. Most of this Compartment has been drilled and is producing gas from the Antrim Shale.

Vehicle Access: Access is mostly along Meaford (Camp 24-25) Road, access from the south would be from Thornton Rd.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: No dedicated trail or facilities in this compartment. Recreational use includes big and small game hunting, fishing, mushroom 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**

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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: 38

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			64	63		34			31	19									211
Cedar										1056									1056
Grass	55																		55
Hemlock										20									20
Lowlnd Poplr			12	25			5												42
Mx Swmp Cnfr										7									7
Oak												27							27
Paper Birch										29	23								52
Red Pine						9			11										20
Upland Brush	6																		6
Upland Hdwds								16										45	61
White Pine									25	31	11								67
Total	61		76	88		43	5	16	67	1162	61							45	1624

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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	192																								19		211	
C Cedar				1056																							1056	
G Grass					55																						55	
H Hemlock						20																					20	
P Lowlnd Poplr										42																	42	
Q Mx Swmp Cnfr												7															7	
O Oak														27													27	
B Paper Birch															23											29	52	
R Red Pine																20											20	
U Upland Brush																								6			6	
M Upland Hdwds																									61		61	
W White Pine																										67	67	
Total	192			1056	55	20				42		7		27	23	20								6	80		96	1624

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: **38**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6722 Cds	Softwood	58 Mbf
Hardwood	364 Mbf	Sum CutVol	116 Cds
Softwood	16185 Cds		
Softwood	2594 Mbf		
Sum TotVol	28823 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1624		9	

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 38

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
22	R9	9	44	70	red pine	immature	thinning	1			
comnts Fmd : EVERY 3RD ROW CUT 1988. Trash from private in stand.											
400	G0	26		50	grass	nonstocked		0	opening maintenance		
comnts Fmd : Burned in 4/23/2003. old GRAZING PERMIT AREA NEAR MT.BALDY SETTLEMENT. FTP w54-735											
Wld : Part of a special management area with compartment 37. Area to be burned and managed as savannah. Burn again in spring 2007											
402	G0	3		55	grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Wld : maintain type with food and cover plantings.											
403	G0	2		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : Gas well in north half of stand.											
Wld : maintain with food and cover plantings.											
404	G0	6		55	grass	nonstocked		0	opening maintenance		
comnts Fmd : Stevens school site, gas well in stand.											
Wld : maintain stand with food and cover plantings.											
405	G0	2		55	grass	nonstocked		0	opening maintenance		
comnts Fmd : Gas well in stand, C2-25.											
Wld : reclaim and maintain with food and cover plantings.											
409	G0	3		55	grass	nonstocked		0	opening maintenance		
comnts Fmd : Gas well in stand.											
Wld : maintain type with food and cover plantings.											
417	G0	2		55	grass	nonstocked		0	opening maintenance		
comnts Fmd : Gas well in stand.											
Wld : maintain with food and cover plantings.											
425	G0	4		68	grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Wld : maintain with food and cover plantings.											
426	G0	1		68	grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Wld : reclaim and maintain with food and cover plantings.											
427	G0	1		68	grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Wld : reclaim and maintain with food and cover plantings. Trespass in corner crossing into private land.											
Total Acres.....		59									

**Proposed Treatments
With Limiting Factors**

Compartment: 38

Entry Year: 2007

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

Total Acres..... 0

