



ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION
COMPARTMENT # 51 ENTRY YEAR: 2007

Compartment Acreage: 2042 County: Montmorency

Revision Date: October 19, 2005

Stand Examiner: Barber

Legal Description: T31N, R03E, Sec. 04, 05, 08, 09, & 16

RMU (if applicable):

Management Goals: Diverse mix of pine, oak, aspen, and upland brush. Natural regeneration of red pine will receive emphasis.

Soil and Topography: The northern third is mostly flat, Grayling sand. This is primarily PArVHa plus some PVCd. The southern two thirds tend toward Graycalm and Rubicon soils, ranging from PArVHa to PArVVb. The PArVVb occurs mostly in hilly oak stands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Rush Lake subdivision to the north and Twin Dams Suidivision in the east central part of the compartment both impact state land. There are also scattered retirement homes and hunting properties. Most of the surrounding land is other state land.

Unique, Natural Features (include only non-site specific and non-sensitive information):Reported.

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

Special Management Designations or Considerations: There is one stand of potential old growth and two stands with beaver activity.

Watershed and Fisheries Considerations: Brush Creek flows north to Twin Dams, then east to Hillman, where it joins the Thunder Bay River. The north part of the compartment drains into Rush Lake, which is on the North Branch of the Thunder Bay River.

Wildlife Habitat Objectives & Considerations:

This compartment is located five miles northeast of Atlanta and nine miles west of Hillman. It is part of a 50 sq. mi. landscape dominated by State Forest lands with small private ownerships scattered around the

Little Brush Lake development. The topography is mostly flat with a few small ridges except for Brush Creek.

This compartment is located in Ecoregion VII.6.1, broad flat outwash plain with excessively drained sandy soils. Fire history was one of frequent stand replacing fires in the northern portion of the compartment and infrequent fires in the rest. GLO data suggest that this compartment was forested with mixed red/jack pine stands in the north and white pine, beech and red maple in the center. A deer habitat potential model indicates this landscape would move from grass to white-red-jack pine and oak with natural succession. The model indicates this compartment has a good potential for fall and winter foods, very poor thermal cover and fair spring and summer habitat potentials. Today aspen (31%), red pine (28%), cedar (13%), jack pine (7%), oak (5%), swamp hardwoods (5%) and openings (4%) make up 90%+ of this compartment's habitat.

The cover types found in this compartment today have a high (1,000+ acres) habitat potential for ermine, elk, northern myotis, bobcat, black-capped chickadee, redbelly snake, brown snake, bear, red fox, coyote, long-tailed weasel and northern short-tailed shrew to name only a few species. The planned treatments will have a small negative impact of blue jays and black-capped chickadees but will have little impact on the rest of the species listed above.

Mineral Resource and Development Concerns and/or Restrictions: Four gas wells already exist on state land within the compartment. Land is mostly open to development, with areas near wetlands, lakes, or streams classified as non-development or development with restrictions. Surface sediments consist of coarse-textured glacial 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 Section 8 and potential is good. Half of this Compartment has been drilled and is producing gas from the Antrim Shale. Additional Antrim development is likely and State lands are nominated for the June 2005 auction.

Vehicle Access: Roads to be closed as shown on compartment map.

Survey Needs: Surveying may be required to prove trespass or for timber sale preparation.

Recreational Facilities and Opportunities: This include an ORV trail, and ORV route/snowmobile trail. Also, public access to Little Brush Lake.

Fire Protection: This compartment is located in the protection area of the Atlanta DNR and the Hillman Fire Department located in Hillman. 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 Hillman Fire Department and also supplies them with a GSA 6x6 fire unit. This compartment has a fair amount of Jack Pine and has the potential for substantial fire growth. The Brush Creek subdivision is located adjacent to the compartment. Most historical fires have been caused from debris burning.

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: 51

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	616																										616
C Cedar				254																							254
G Grass					86																		5				91
J Jack Pine							146																				146
L LowInd Brush									65																		65
P LowInd Poplr										50																	50
N Marsh											10																10
X Non Stocked													40														40
O Oak														102													102
R Red Pine														37	516												553
E Swamp Hrdwds																			100								100
U Upland Brush																								12			12
Z Water																									3		3
Total	616			254	86		146		65	50	10		40	139		516			100				17		3		2042

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 51

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5120 Cds	Softwood	84 Cds
Hardwood	515 Mbf	Softwood	1195 Mbf
Softwood	5945 Cds	Sum CutVol	2474 Cds
Softwood	3670 Mbf		
Sum TotVol	19435 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	462
2042			

ATLANTA FOREST MGT UNIT

Proposed Treatments
With NO Limiting Factors

Compartment: 51

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	R9	34	69	48	oak	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : A portion of this was thinned in 2000, sale 20-97. M2O2. East-most part is a narrow ridge, with R3 under oak in one spot. LCR31:0.5.										
Wld : keep one drumming log on ground in each spot cutting.										
7	R9	3	69	48	oak	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : A portion of this was thinned in 2000, sale 20-97. M2O2. East-most part a narrow ridge, with R3 under oak in one spot. LCR31:0.5.										
Wld : one drumming log in spot cutting.										
10	R9	51	65	55	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : Plantation red pine. Thinned 2000.										
14	R8	71	75	57	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : J3, R2, O1. LCR31:0.33.										
22	R8	12	68	60	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : Plantation red pine. Thinned 2000, sale 20-97.										
30	R9	93	75	55	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : Plantation red pine. PARVHa. Natural R1 under O3, in places. O3WIM1. LCR31:0.33.										
33	R9	40	75	55	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : Plantation red pine. PARVHa. Natural R1 under O3, in places. O3WIM1. LCR31:0.33.										
37	R8	35	75	55	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : Plantation red pine. Previously thinned, may be stunted due to original site prep. Cut 2" and larger stems. This may result in open (U) areas within the stand. LCR31:0.33 to 0.5. Red pine is regenerating naturally in portions of the stand .										
40	R9	62	75	60	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : plantation red pine. PARVHa. May burn too hot in west parts due to F2.										
43	R8	35	75	65	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : Plantation red pine. Overall PARVHa. LCR31:0.33										
71	R8	14	90	64	red pine	immature	shelterwood-prep	1	cleaning & weeding	
73	R8	3	90	64	red pine	immature	shelterwood-prep	1	cleaning & weeding	
74	R8	9	90	64	red pine	immature	shelterwood-prep	1	cleaning & weeding	
430	G0	8		55	grass	nonstocked		0	opening maintenance	
Wld : maintain type with food and cover plantings.										
433	G0	2		55	upland brush	nonstocked		0	other - specify in remarks	
Wld : allow stand to covert to upland brush naturally.										
437	G0	4		55	grass	nonstocked		0	opening maintenance	
Wld : maintain with food and cover plantings.										
441	G0	3		50	grass	nonstocked		0	opening maintenance	
Wld : maintain with food and cover plantings.										

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 51

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
442	G0	6		50	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings.											
443	G0	4		50	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings											
445	G0	4		55	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings.											
447	G0	5		70	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings.											
451	G0	4		70	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings.											
456	G0	12		70	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings											
475	G0	7		62	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings.											
476	G0	9		62	grass	nonstocked		0	opening maintenance		
Wld : maintain stand with food and cover plantings.											
477	G0	1		62	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings along with stand in next compartment.											
480	G0	3		60	upland brush	nonstocked		0	other - specify in remarks		
Wld : allow stand to convert to upland brush naturally.											
481	G0	3		60	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings.											
483	G0	10		62	grass	nonstocked		0	opening maintenance		
Wld : maintain with food and cover plantings.											
Total Acres.....		547									

**Proposed Treatments
With Limiting Factors**

Compartment: 51

Entry Year: 2007

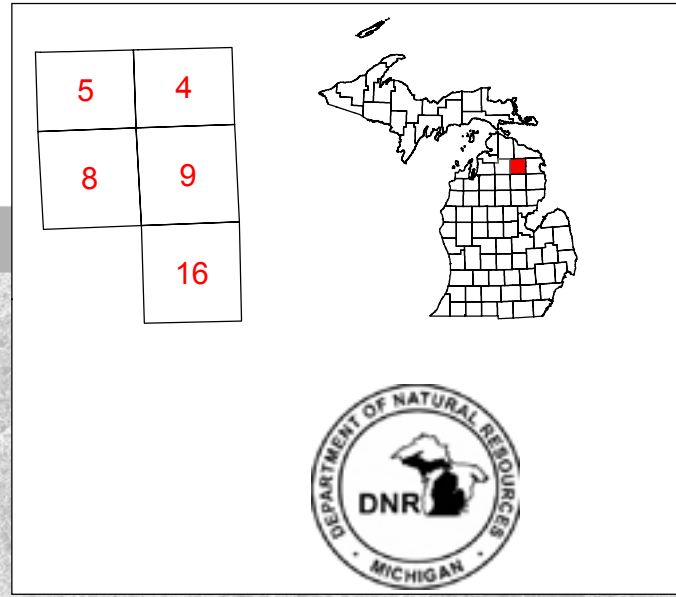
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 51
 T31N, R3E, Sec. 4, 5, 8, 9, 16
 County: Montmorency
 Unit: Atlanta
 YOE: 2007
 Acres: 2,042 GIS Calculated
 Stand Examiner: Richard Barber
 Map Revised: 8/16/2005
 Map Phase: Pre-review



Legend

- Miris corners
- Paved roads
- Poor dirt roads
- Gravel roads
- Pipelines
- Trails
- Gas Wells
- Snowmobile Trails
- Orv Routes
- Orv Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 767 - Shelterwood-prep/Cleaning-weeding/Prescribed Burning

Name Paved Roads
Name Gravel Roads
Name Poor Dirt Roads
Name Water Features

