



**ATLANTA FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 059    ENTRY YEAR: 2007**

**Compartment Acreage: 2,084      County: Montmorency**

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**Revision Date:** October 19, 2005

**Stand Examiner:** Cody Stevens

**Legal Description:** T32N –R1E, Sections 21, 28, 29, 32 and 33.

**RMU (if applicable):**

**Management Goals:**

The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

**Soil and Topography:** The compartment is predominately located on Sandy soils including Graycalm and Grayling types. The compartments topography is rolling hills with some steep ridges.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

The compartment is surrounded predominately by state land to the south and east. The North and west boundaries are adjoined by private land. Land use in the area comes from the recreational users, and Antrim gas development.

**Unique, Natural Features:**

Some species present in Area.

**Archeological, Historical, and Cultural Features.** None known.

**Special Management Designations or Considerations:**

The compartment has a high population of elk throughout the year.

**Watershed and Fisheries Considerations:**

**Fisheries Concerns is General:**

**Wildlife Habitat Considerations:**

This compartment is located 9 miles northwest of Atlanta and six miles due west of Clear Lake State Park. The topography is somewhat flat except for the southern edge. The compartment is part of an outwash plain landscape that lies between two branches of the Black River.

This compartment is located in Ecoregion VII.2.3 as a broad flat outwash plain with excessively drained sandy soils supporting red and jack pine plantations. The southern edge of the compartment is a system of broad moraine ridges supporting aspen and northern hardwood stands with well drained sandy loam soils. Fire history indicates the northern two-thirds of the compartment experienced frequent stand replacing fires while the southern third experienced catastrophic fires infrequently. Kotar's cover typing system indicates over 90% of the compartment as Pine Barren with the northern two-thirds in PVCd and the remaining in PArVHa-PArVVb types. GLO data suggest that this compartment supported red-jack pine stands through the center, jack pine in the northern portion and aspen-birch-northern hardwoods along the southern edge. Today three forest types dominate this compartment's habitat, aspen (33%), red pine (27%) and jack pine (17%). Openings and upland brush make up nearly 10% of the habitat. The majority of the 'G' type acres are gas pads while 10 acres are managed openings.

Existing habitats in this compartment provide a high potential (1,000+ acres) for northern flicker, ermine, elk, bobcat, bear, red fox, coyote, masked shrew, American toad, brown snake and long-tailed weasel to name just a few. The planned treatments in the forest and opening types will have only minor negative impact on brown snakes (-1 ½% habitat type acres) but will improve by 20% or more the habitat acres for elk, bobcat, northern flicker, northern myotis, ermine, raccoons, hoary bats and great-horned owls. Major habitat gains (400+ acres) will result for bald eagles, broad-winged hawks, eastern red bats, American redstart, silver-haired bat, black & white warblers and yellow-bellied sapsuckers.

**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 600 feet. Beneath the glacial drift is the Devonian Antrim Shale. The Antrim is quarried for cement products. The nearest gravel pit is located one mile to the west and potential is good. Sections 32 and 33 have been developed for the Antrim Shale. The rest of the Compartment will likely be developed for the Antrim. The SE/4 of Section 33 is nominated for the June 2005 auction. A producing Niagaran reef well is located in Section 29 and there is additional reef potential in the Compartment.

**Vehicle Access:**

The compartment is easily accessed off of Black River Road, Cut Over Road, Towline Lake Road and Camp Thirty Road and has many two tracks that provide access to the entire area.

**Survey Needs:**

None known at this time.

**Recreational Facilities and Opportunities:**

There are many opportunities for hunting, wildlife viewing and mushrooming in the area. Foch Lake provides many good fishing opportunities. The motorcycle trail runs through the compartment.

**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 last on scene of any fire in the area due to their distance from the area. The Atlanta DNR has mutual aid agreements with Vienna Township Fire Department and Hillman Fire Department and also supplies them with GSA 6x6 fire units. The Atlanta DNR and Vienna Township Fire Department would most likely to be the initial attack forces. Historically the fires in this large Jack Pine area have been from fishermen on the Black River and or lightning. This usually occurs during the spring fire season as it relates to the spring trout fishing opener. 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: 59

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		71	44	87	307	124				41									674
Cedar									67										67
Grass	21																		21
Jack Pine			106		8	61	129	37											341
Lowlnd Brush	3																		3
Marsh	36																		36
Mx Swmp Cnfr									23										23
Non Stocked	69																		69
Red Pine					22	16	101	352	39		17								547
Upland Brush	163		8																171
Upland Hdwds																		70	70
Water	62																		62
<b>Total</b>	<b>354</b>	<b>71</b>	<b>158</b>	<b>87</b>	<b>337</b>	<b>201</b>	<b>230</b>	<b>389</b>	<b>129</b>	<b>41</b>	<b>17</b>							<b>70</b>	<b>2084</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: 59

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	674																										674
C Cedar				67																							67
G Grass					21																						21
J Jack Pine							341																				341
L Lowlnd Brush									3																		3
N Marsh											36																36
Q Mx Swmp Cnfr												23															23
X Non Stocked													69														69
R Red Pine																547											547
U Upland Brush																								171			171
M Upland Hdwds																									70		70
Z Water																									62		62
<b>Total</b>	<b>674</b>			<b>67</b>	<b>21</b>		<b>341</b>		<b>3</b>		<b>36</b>	<b>23</b>	<b>69</b>			<b>547</b>							<b>171</b>	<b>70</b>	<b>62</b>		<b>2084</b>

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: **59**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5876 Cds	Hardwood	1015 Cds
Hardwood	195 Mbf	Softwood	1279 Cds
Softwood	10130 Cds	Softwood	147 Mbf
Softwood	1737 Mbf	Sum CutVol	2588 Cds
Sum TotVol	19870 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
2084		173	

**ATLANTA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 59**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
11	J6	37	64	54	jack pine	mature	final harvest	1	planting		
comnts Fmd : Leave 2-3 pockets (1/4 acre) of red pine scattered through out the stand.											
16	R6	10	53	58	red pine	immature	thinning	1			
comnts Fmd : 3rd row thin stand.											
18	R9	12	67	50	red pine	mature	final harvest	1	planting		
comnts Fmd : leave 2-4 trees per acre											
Wld : Possible candidate for conversion to jack pine.											
54	R6	38	50	55	red pine	immature	thinning	1			
comnts Fmd : 3rd row thin stand.											
68	M6	70		72	northern hardwood	mature	thinning	2			
comnts Fmd : Remove poor quality stems and most aspen, expect high amount of elk browse on regen. Soil: Millersburg Loamy Sand											
72	R6	6	50	55	red pine	immature	thinning	1			
comnts Fmd : 3rd row thin stand.											
421	G0	3			grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Wld : Reclaimed opening in 2003. Maintain with food and cover plantings.											
422	G0	6			grass	nonstocked		0	opening maintenance		
comnts Fmd : Old Air Strip											
Wld : old air strip used by deer and elk. Maintain with mowing.											
423	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Wld : Reclaimed gas pad opening. Maintain with food and cover plantings.											
<b>Total Acres.....</b>		<b>183</b>									

**Proposed Treatments  
With Limiting Factors**

**Compartment: 59**

**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>FDF Status</b>
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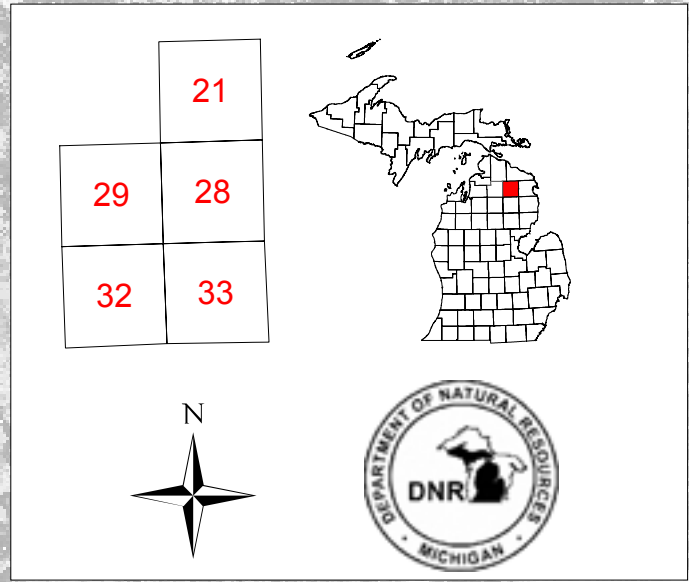
TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 59  
 T32N, R1E, Sec. 21, 28, 29, 32, 33  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2007  
 Acres: 2,084 GIS Calculated  
 Stand Examiner: Cody Stevens  
 Map Revised: 8/30/2005  
 Map Phase: Pre-review



- Legend**
- Miris Corners
  - - Poor Dirt Roads
  - Pipelines
  - Stand Boundary
  - ▨ 026 - Opening Maintenance
  - ▨ 116 - Final Harvest/Planting
  - ▨ 400 Thinning
  - Name Poor Dirt Roads
  - Name Gravel Roads
  - Name Water Features

