



**ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 063 ENTRY YEAR: 2007

Compartment Acreage: 3,219 County: Montmorency

Revision Date: October 19, 2005

Stand Examiner: Cody Stevens

Legal Description: T32N-R2E Sections 3, 4, 9, 10, 15, 22 & 27
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:

Watershed and Fisheries Considerations: Stand 19 and 20 are scheduled for a final harvest/shelterwood cut of jack pine or oak, along the south shoreline of Tomahawk Flooding. Fisheries Division asks for a 25 foot cut free zone or selective cut inward from the lake shoreline. This is to provide a stable riparian zone, and to encourage the natural recruitment of woody debris to the flooding/lake. The flooding currently has a healthy panfish, largemouth bass, and northern pike population and in-lake woody debris is an important cover type.

Wildlife Habitat Considerations:

This compartment is located approximately 8 miles due north of Atlanta and is part of a 130 sq. mi. landscape dominated by State Forest Lands. The topography is mostly flat. This compartment is part of the Clear Lake Kirtland's Warbler Management Unit.

The compartment is located in Ecoregion VII.6.1, made up of broad flat outwash plains with excessively drained sandy soils. The Kotar habitat mapping system classifies the majority of the compartment as PVC with an island of AFO-AFOCa and PArVVb in the center. Kotar's land-management classification system indicates this entire compartment as a Barren MU. Data on fire history implies that the compartment experienced catastrophic stand replacing fires on a frequent bases. A deer habitat model implies this unit under natural succession would go from shrub/grass stands to oak, white, red and jack pine. Today jack pine (64%), aspen (15%) and oak (10%) make up nearly 90% of this compartments cover types.

Today's cover types are providing a high (2,500+ acres) habitat potential for eastern hognose snake, bobcat, brown snake, redbelly snake, long-tailed weasel, American toad, northern short-tailed shrew and common garter snakes. The planned treatments will enhance the habitat potential for morning doves, red fox, bear, coyotes, cottontail rabbits and deer. These improvements are due to the increased grass types associated with the planned temporary savannah/barrens created by 271 acres of jack pine clear-cut not being replanted for 5 or 10 years. The delayed replanting is necessary to put the stands in the desired rotation for the Kirtland's Warbler management plan. This temporary stand conversion is expected to have a negative affect on habitat potential for bobcat, Kirtland's warblers, Nashville warblers, long-tailed weasels, ruffed grouse and snowshoe hares.

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 400 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Formation. The Antrim is quarried for cement products and the Traverse for limestone. Gravel pits are located in Sections 15 and 27 and potential is good. This area has had Antrim Shale development on the south end. The Antrim Shale is thinning and appears to be gone on the north end. Leasing is limited to the south with drilling advancing slowly to the north.

Vehicle Access:

The compartment is bordered by M-33 and easily accessed off of Millersburg Road and Clay Pit Road. The area 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. Tomahawk Flooding provides many good fishing opportunities. The ORV trail, snowmobile trail and the High Country Pathway run through the compartment.

Fire Protection: 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 Hillman Fire Department and also supplies them with GSA 6x6 fire unit. The Tri-Township Fire Department would also respond due to mutual aid agreements with Hillman and their close proximity. Fires in this area have the

potential to become very large. Historically the fires in this large Jack Pine area have been from debris burning and lightning.

Additional Compartment Information:

This area gets a large amount of illegal ORV activity on the power line and two tracks.

- **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: 63

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	483																										483
C Cedar				5																							5
G Grass					39																						39
J Jack Pine							2042																				2042
L LowInd Brush									23																		23
P LowInd Poplr										14																	14
N Marsh											6																6
Q Mx Swmp Cnfr												8															8
X Non Stocked													41														41
O Oak														130													130
R Red Pine																320											320
U Upland Brush																								8			8
Z Water																									100		100
Total	483			5	39		2042		23	14	6	8	41	130		320								8	100		3219

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

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COMPARTMENT: **63**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8029 Cds	Hardwood	3356 Cds
Hardwood	431 Mbf	Hardwood	196 Mbf
Softwood	15688 Cds	Softwood	7498 Cds
Softwood	618 Mbf	Softwood	109 Mbf
Sum TotVol	25815 Cds	Sum CutVol	11464 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	576
3219			

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 63

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
9	J6	20	71	47	jack pine	mature	final harvest	1	planting	
comnts Fmd : Leave all oak and red pine for visual. Protect oak regen when cut.										
13	J6	4	59	53	jack pine	mature	final harvest	1	planting	
comnts Fmd : close North/South roads when harvest complete										
14	R6	7	49	58	red pine	immature	thinning	1		
comnts Fmd : Cut jack pine, thin red pine.										
19	J6	16	69	48	jack pine	mature	final harvest	1	planting	
comnts Fmd : some aspen/oak mixed in along edges										
20	O6	31	77	40	oak	mature	shelterwood-seed	1		
comnts Fmd : Leave 30-40 BA of oak and red pine. May have to plant jack pine next entry. Cut in summer to scarify soil.										
22	A6	32	69	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : small diameter aspen. Leave scattered oak (1-2 trees per acre)										
24	R9	8	72	50	red pine	mature	shelterwood-seed	1		
comnts Fmd : cut jack, thin oak and red pine to 30-50 BA. Cut in summer to scarify soil.										
37	R6	23	49	52	red pine	immature	thinning	1		
comnts Fmd : third row thin. Best quality to north.										
39	J6	9	67	43	jack pine	mature	final harvest	2	planting	
43	A6	10	69	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : some scattered red pine. Leave 1-2 Oak and Red Pine per acre. Protect shrubs in understory during harvest. Soil = Millersburg Loamy Sand										
46	A6	13	75	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave 1-2 oak per acre Soil = Millersburg Loamy Sand										
47	J6	39	67	52	jack pine	mature	final harvest	1	planting	
comnts Fmd : High Country Pathway runs through stand. Should reroute pathway down edge of stand on existing two track while the stand is being harvested. Have loggers block fire lane running through stand 50. Soil=Millersburg Loamy Sand										
55	A6	48	80	52	aspen (upland)	mature	final harvest	1		
comnts Fmd : No cut white oak, red pine, white pine. Protect white pine regen. May want to mark 1-2 red oak per acre where no other residual is present. Soil = Millersburg Loamy Sand										
66	A6	9	71	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave white oak and red pine. Protect shrubs. Soil = klacking sand										
67	A6	26	71	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave white oak and red pine. Protect shrubs. Keep trail road on East side of stand blocked once harvest completed. Soil = klacking sand										
76	J6	212	66	48	jack pine	mature	final harvest	1	planting	
comnts Fmd : some pockets of younger jack pine mixed in. Plant for KW Past damage by JP Budworm is evident.										
79	J6	51	66	48	jack pine	mature	final harvest	1	planting	
comnts Fmd : Include small strip cuts. Plant for KW Some JP Budworm damage from past years.										
103	R6	18	57	49	red pine	mature	shelterwood-prep	1		
comnts Fmd : Leave Red Pine, cut jack/aspen/some oak. Leave uncut buffer around pit.										

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Total Acres.....		576								

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TREATMENT LIMITING FACTORS:

Total Acres..... 0

