



ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION
COMPARTMENT # 73 ENTRY YEAR: 2008
Compartment Acreage: 968 County: Montmorency

Revision Date: February 27, 2006

Stand Examiner: Robert Theiner

Legal Description: T-32-N, R-03-E, Sections 28, 31, 32 and 33

RMU (if applicable):

Management Goals: The compartment is mostly aspen and in the past has had numerous treatments. To obtain more of an uneven aged landscape, we will be harvesting some of the aspen entering into the pole sized group.

Soil and Topography: Grayling sand is in the majority of the compartment in the south, with Tawas-Lupton muck in the south east and a variety of soil types through out the compartment. Topography is level to gently rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is typical for an area with an inland lake in Northern Michigan, the private lands are mostly developed with both seasonal and permanent residences. Illegal O.R.V. operation is quite common east of Deer Foot Trail, Directors Order 4.35, 2, a, prohibits motorized vehicle operation in the E1/2 of the SE ¼ of section 32.

Unique, Natural Features: Species have been listed.

Archeological, Historical, and Cultural Features: Sites have been listed.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: Rush Lake, a flooded lake and the North Branch of The Thunder Bay River, dominates this compartment.

Wildlife Habitat Considerations: This compartment is located in Montmorency County approximately six miles northwest of Hillman and 8 miles northeast of Atlanta. The topography is somewhat flat and Grass Lake is in the center of the compartment. The compartment is part of a 36 sq. mil landscape dominated by State Forest Lands. The compartment is located in Ecoregion VII.6.1, a broad flat outwash plain with excessively drained sandy soils. Kotar's cover typing system classifies this compartment as a pine management unit with PArVHa-PArVVb over most of the area. Fire history in this area has been one of infrequent catastrophic stand replacing fires. GLO data suggest the northern half of the compartment was a mix of red and white pine on the uplands and tamarack on the low areas. The southern half supported a mix of red and jack pine on the uplands and tamarack on the low areas. A deer model implies that this landscape would move from aspen/birch to white pine and northern hardwoods through natural succession. Today aspen (60%), oak (15%), lowland brush (6%), black spruce (5%), openings (5%) and mixed swamp conifers make up 95% of this compartments habitat. Today this compartment provides a high (850+ acres) habitat potential for bear, red fox, brown snake, garter snake, coyote, northern short-tailed shrew, masked shrew, long-tailed weasel and southern red-backed vole to name only a few species. The planned treatments along with succession over the next ten years will have little to no negative impact on the above listed species; however, the habitat will be enhanced for bobcat, elk, robin and a whole host of woodland raptors.

Mineral Resource and Development Concerns and/or Restrictions: Sections 28 & 31 - 33, T32N-R3E, Montmorency Co. 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. The Antrim is quarried for cement products elsewhere in the State. A gravel pit is located one mile to the south and potential is good. The Compartment has limited potential for the Antrim Shale as it disappears just to the north. There are no oil and gas leases in the Compartment.

Vehicle Access: Access into the compartment, in the north, off Co. Rd. 628, in the south, off Co. Rd. 624. See road closure map.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: A public access site is located on the south side of Rush Lake at the end of Lake Shore Rd. Area is used extensively for fishing and hunting.

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 first on scene of any fire in the area due to their proximity to the area. The Atlanta DNR has mutual aid agreements with Hillman Fire Department and also

supplies them with GSA 6x6 fire unit. This area has a lower potential of major fire growth. Several fires have occurred in the general area.

Additional Compartment Information: Section 32 once contained a Township dump and now has a Township transfer station in the same location. Trash dumping has slowed considerable in the last ten years. Illegal ORV operation is still a problem here.

- **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: 73

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				189	92	245	67												593
Cedar												11	17						28
Grass	6																		6
Jack Pine			1		23				5										29
LowInd Brush	102																		102
LowInd Poplr				39				6											45
Marsh	16																		16
Mx Swmp Cnfr										6									6
Non Stocked	5																		5
Oak									14	10	4								28
Red Pine						30				2		4							36
Swamp Hrdwds							9		8	2									19
Upland Hdwds																		20	20
White Pine									5		2	19		9					35
Total	129		1	228	115	275	76	6	32	20	6	34	17	9				20	968

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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: 73

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	593																										593
C Cedar				28																							28
G Grass					6																						6
J Jack Pine							29																				29
L LowInd Brush									102																		102
P LowInd Poplr										45																	45
N Marsh											16																16
Q Mx Swmp Cnfr												6															6
X Non Stocked					4									1													5
O Oak														28													28
R Red Pine																36											36
E Swamp Hrdwds																				19							19
M Upland Hdwds																									20		20
W White Pine																										35	35
Total	593			28	10		29		102	45	16	6	1	28		36				19					20	35	968

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: **73**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6773 Cds	Hardwood	2671 Cds
Hardwood	389 Mbf	Hardwood	109 Mbf
Softwood	1263 Cds	Softwood	84 Cds
Softwood	555 Mbf	Softwood	34 Mbf
Sum TotVol	9924 Cds	Sum CutVol	3041 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
968		133	

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 73

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
15	A6	67	48	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : Pockets of A4 but mostly A6, cut now to cut off the top of the aspen curve. Leave oak. Not as much oak in the east. Aspen is the species that is expected to regenerate but regeneration of any species is welcome.										
17	O9	4	88	68	oak	mature	shelterwood-prep	2		
comnts Fmd : Small oak stand, some areas of thick w.p. in u.s. Millersburg-Klacking-Graycalm complex. Oak is the preferred species for regeneration, along with oak, conifers regeneration is acceptable.										
46	O4	2	83	58	oak	low quality	final harvest	2		
comnts Fmd : Island of oak, leave some oak clumps. Klacking sand. Oak regeneration is preferred but any mix is acceptable.										
55	A5	21	45	70	aspen (upland)	immature	final harvest	1		
comnts Fmd : Need road closures.										
73	A6	12	45	73	aspen (upland)	immature	final harvest	1		
comnts Fmd : Pockets of oak poles and saw. Some oak ridges. Similar age as stands 14 and 15. Rubicon sand										
129	X0	2		55	grass	nonstocked		0	other - specify in remarks	
comnts Fmd : OLD DUMP AND TRANSFER SITE. CLEANUP AND IMPROVE. COULD RESTRICT ACCESS BY PINE PLANTING. 1 PIECEOF NATURAL OPEN TO IMPROV										
155	X0	2		55	grass	nonstocked		0	other - specify in remarks	
comnts Fmd : OLD DUMP AND TRANSFER SITE. CLEANUP AND IMPROVE. Check on permit. Klacking sand										
Total Acres.....		110								

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 73

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD/ Status
32	O6	12	71	52	oak	mature	final harvest	2		

TREATMENT LIMITING FACTORS: Adjacent landowner denies access
Water quality/bmps

comnts Fmd : Good mix, difficult access (private). After following BMP's, not too much to cut. More conifer in north. Melita sand. Any mix of regeneration is acceptable.

34	J6	5	76	52	jack pine	mature	final harvest	3		
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TREATMENT LIMITING FACTORS: Too steep
Adjacent landowner denies access

comnts Fmd : ACCESS DIFFICULT DUE TO SURROUNDING SUBDIVISION. WETLAND WEST SIDE. Steep slope. Millersburg-Blue Lake complex. Any mix of regeneration is acceptable.

35	O8	8	86	58	oak	mature	selection	3		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : ACCESS DIFFICULT DUE TO SURROUNDING SUBDIVISIONS. Survey line in. Tawas Lupton muck. Any mix of regeneration is acceptable.

56	O6	2	71	52	oak	mature	final harvest	2		
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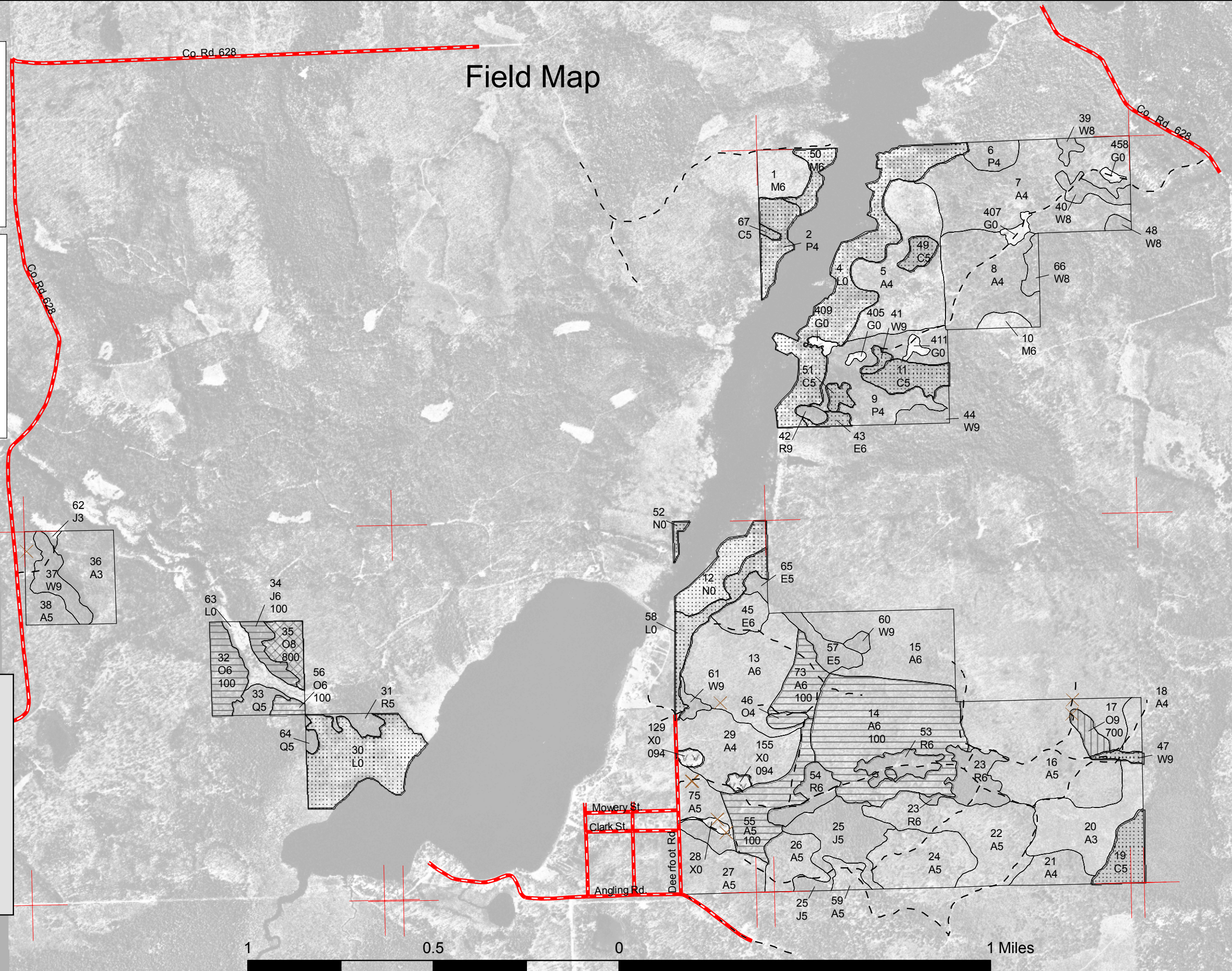
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle
Inadequate volume due to small acreage

comnts Fmd : Good mix, difficult access (Have to go through Q type and private). After following BMP's, not too much to cut.

Total Acres..... 27

Field Map

Compartment 73
 T32N, R03E, Sec. 28, 31, 32, 33
 County: Montmorency
 Unit: Atlanta
 YOE: 2008
 Acres: 968 GIS Calculated
 Stand Examiner: Robert Theiner
 Map Revised: 9/21/2006
 Map Phase: Pre-review



Legend

- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- Berms
- Stand Boundary
- Biodiversity/Old Growth Area
- 094 - Other/Bulldozer
- 100 - Final Harvest
- 700 - Shelterwood-prep
- 800 - Selection

