



ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION
COMPARTMENT # 155 ENTRY YEAR: 2007

Compartment Acreage: 1744 County: Presque Isle

Revision Date: October 19, 2005

Stand Examiner: Barber

Legal Description: T36N, R2E, Sec. 7, 8, & 9.

RMU (if applicable):

Management Goals: Regeneration of red pine, forest recreation.

Soil and Topography: The approximate west half of the compartment is part of a broad northwest to southeast moraine known as Black Mountain. It consists of well drained sands and loamy sands supporting jack pine, white pine, red pine red oak, aspen and occasionally hardwoods. The remainder of the compartment is an old lake bed. It supports mostly lowland conifers and swamp aspen, but can support hardwoods.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The old Abitibi property lies to the north and east. There are some private residences within the compartment. Most surrounding land is state land, including Black Mountain Forest Recreation Area.

Unique, Natural Features (include only non-site specific and non-sensitive information): A special concern species was noted near this compartment.

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

Special Management Designations or Considerations: Black Mountain Forest Recreation Area includes part of this compartment. Silvicultural treatments are formulated to minimize negative impacts on recreation.

Watershed and Fisheries Considerations: No special considerations exist for this compartment,

Wildlife Habitat Considerations and Objectives:

This compartment is located ten miles due north of Onaway, 3 miles north of Black lake and situated along the north edge of a 42 square mile landscape that is dominated by State Forest Lands. The topography is somewhat level with a rising ridge system from the central portion of the compartment to the western corner.

The compartment is located in two different Ecoregions with VII.6.1 of broad moraine ridges, with excessively drained sandy soil in the western 2/3 and VII.6.3 of flat lake plain with poorly drained sandy soil in the eastern third. Kotar's cover typing system classifies this compartment as pine management in the NW4, northern hardwoods in the SW2 and central and wetland management in the E2. The cover is a mixture of AFO to AFO-AFOCa, PArVHa and PArVVb. Due to these cover types the fire history for the compartment is a mix of catastrophic stand replacing fires in the western third and infrequent such fires in the central and eastern portions of the compartment. GLO data suggest aspen, hemlock and tamarack were found in the eastern third, northern hardwoods in the central and red pine in the western third of the compartment. A deer habitat potential model indicates the western 2/3 of the compartment has a fall/winter food potential of .65, thermal cover potential of 0.0 and spring/summer habitat potential of .35. According to this model, the western 2/3 of the compartment will go to white pine and northern hardwoods through natural succession while the eastern third would move towards cedar and hemlock. Today upland hardwoods (19%), red pine (17%), aspen (14%), balsam poplar (12%), swamp conifers (10%) and marsh/bog (6%) dominate this compartments habitat types.

Habitat types found in the compartment today provide a high potential for bobcat, northern myotis, ermine, brown snake, American toad, bear, red fox, coyote and long-tailed weasel. The planned forest treatments, proposed grass burns and stand conversions will improve habitats for snowshoe hair, cottontail rabbits, little brown myotis and Nashville warblers by twenty percent or more. These same management activities can be expected to influence the habitat of vireos, ruffed grouse, yellow-bellied sapsuckers and broad-winged hawks by -20% or more.

Mineral Resource and Development Concerns and/or Restrictions: The drier ground in sections 8 and 9 is classified as development. Most of the rest of the compartment is non-development. Surface sediments consist of lacustrine (lake) sand and gravel and coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Detroit River Group. The Detroit River could be used for stone. A gravel pit is located in Section 16 and there is potential on the uplands. This area has had no drilling for oil and gas. Oil and gas producing Silurian Niagaran Reefs are located fifteen miles to the south. None of the State land is leased for oil and gas development.

Vehicle Access: This area is well to excessively well served by an abundance of roads. Illegal ORV trails are common in section 9, and occasional in section 8. ORVs and SOS licensed vehicles have caused soil erosion problems on steep slopes in section 7.

Survey Needs: None needed.

Recreational Facilities and Opportunities: Black Mountain Forest Recreation Area. This compartment includes part of a ski trail and snowmobile trail/ORV route.

Fire Protection: This is well covered by the Onaway office .

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

PRESQUE ISLE COUNTY

COMPARTMENT: 155

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		37	47		60	34				62									240
Bog or Marsh	113																		113
Cedar										3		15							18
Grass	18																		18
Hemlock									37	6									43
Jack Pine											27								27
Lowlnd Brush								28											28
Lowlnd Poplr		52		90		44				27									213
Marsh	18																		18
Mx Swmp Cnfr									28	144									172
Non Stocked	15																		15
Oak									61										61
Red Pine						19		50	115	71		12	19						286
Spruce Fir					18														18
Swamp Hrdwds					45		37												82
Upland Hdwds					88	70			38		22							113	331
White Pine									33	9		19							61
Total	164	89	47	90	211	167	37	78	312	322	49	46	19					113	1744

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

PRESQUE ISLE COUNTY

COMPARTMENT: 155

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	178																									62	240
V Bog or Marsh			113																								113
C Cedar				18																							18
G Grass					18																						18
H Hemlock						43																					43
J Jack Pine							27																				27
L LowInd Brush									28																		28
P LowInd Poplr										213																	213
N Marsh											18																18
Q Mx Swmp Cnfr												172															172
X Non Stocked													15														15
O Oak														61													61
R Red Pine															286												286
F Spruce Fir																			18								18
E Swamp Hrdwds																				82							82
M Upland Hdwds																								331			331
W White Pine																										61	61
Total	178		113	18	18	43	27		28	213	18	172	15	61		286			18	82					331	123	1744

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

PRESQUE ISLE COUNTY

COMPARTMENT: **155**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6572 Cds	Hardwood	1216 Cds
Hardwood	946 Mbf	Hardwood	96 Mbf
Softwood	4024 Cds	Softwood	319 Cds
Softwood	3359 Mbf	Softwood	464 Mbf
Sum TotVol	19206 Cds	Sum CutVol	2655 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1744		227	

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 155 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
3	R6	27	65	51	red pine	immature	shelterwood-prep	1	cleaning & weeding	
<p>comnts Fmd : Good scattering of red pine and white pine seedlings and saps. Part of an 80 acre failed (poor site prep) red pine plantation. Red pine sawtimber runs about 13" DBH. PArVHa(?)</p> <p>Wld : Leave tops or tree length with tops scattered through the sale at completion. Red Pine project suggest this stand be converted to aspen. Wildlife recommends this type conversion be done with drumming log specs.</p>										
5	R9	23	65	51	red pine	immature	shelterwood-prep	1	cleaning & weeding	
<p>comnts Fmd : thinned 1998. LCR31=0.25--0.33. PArVHa to PArVVb.</p> <p>Wld : maintain as a classis red pine stand. Leave tops or tree length with tops scattered through out sale area after completion.</p>										
34	R9	60	76	61	red pine	immature	shelterwood-prep	1	cleaning & weeding	
<p>comnts Fmd : Previously species thinned. Beech and oak saps near NE edge of stand. Some R1 where vegetation and litter are thin.</p> <p>Wld : leave tops or tree length with tops scattered through sale area after completion. Red Pine project suggest this stand be converted to northern hardwoods. Wildlife recommends this type conversion take place naturally.</p>										
37	R6	37	75	68	red pine	immature	shelterwood-prep	1	cleaning & weeding	
<p>Wld : leave scattered tops or tree length with tops through out sale area after completion.</p>										
38	R9	18	75	68	red pine	immature	shelterwood-prep	1	cleaning & weeding	
<p>comnts Fmd : Previously species thinned. Excellent red maple regeneration.</p> <p>Wld : maintain as a classic red pine stand. Leave tops in sale area.</p>										
39	A6	62	83	64	white pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : This stand was previously sold, but not cut. Manage as a mixed stand. PRE-SALE: Use GPS to adjust lines as needed. Mark red pine to half-height spacing, as appropriate. POST-SALE: Regard as a WP release. Where WP regen is thin, but RP overstory, may begin prescribed burn regimen to promote RP. May prescribed burn under oak and/or scarify. Else, accept as pocket of U or A.</p> <p>Wld : maintain as a mixed stand with aspen a major componet. Leave 2 drumming logs per acre through out sale area.</p>										
428	G0	9		60	grass	nonstocked		0	opening maintenance	
<p>comnts Fmd : Old foundation.</p> <p>Wld : reclaim and maintain this old opening by burning. Do not burn remaining apple trees from old orchard.</p>										
453	G0	8		54	grass	sparse		0	opening maintenance	
<p>Wld : reclaim and maintain orginal opening by burning.</p>										
Total Acres.....		244								

**Proposed Treatments
With Limiting Factors**

Compartment: 155 **Entry Year: 2007**

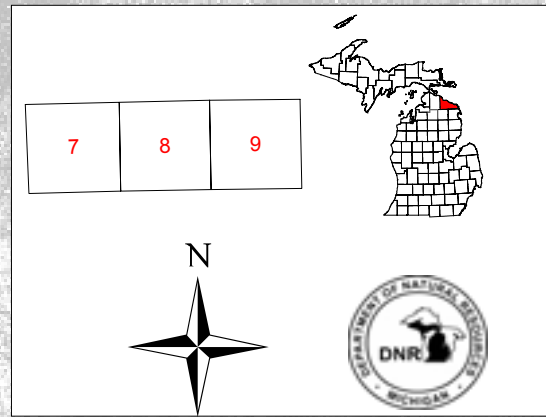
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 155
 T36N, R2E, Sec. 7-9
 County: Presque Isle
 Unit: Atlanta
 YOE: 2007
 Acres: 1,744 GIS Calculated
 Stand Examiner: Richard Barber
 Map Revised: 8/31/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- - - Poor Dirt Roads
- - - Closed Roads
- Trails
- Snowmobile Trails
- Ski Trails
- Stand Boundary
- Biodiversity/Old growth area
- 147 - Final harvest/Natural regeneration/Prescribed burning
- 767 - Shelterwood-prep/Cleaning-weeding/Prescribed burning

Name Poor Dirt Roads
 Name Gravel Roads

