



ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION
COMPARTMENT # 120 ENTRY YEAR: 2007

Compartment Acreage: 1660 County: Presque Isle

Revision Date: October 19, 2005

Stand Examiner: Barber

Legal Description: T33N, R2E, Sec. 13, 14, & 15.

RMU (if applicable):

Management Goals: Protection of karst resource. Natural regeneration of red pine.

Soil and Topography: Section 15 features Shoepac Lake, wetlands north of Co. Rd. 634, and some higher, sandy soils. Sections 13 and 14 consist of flat, sandy soils which are well to excessively well drained. A fault line runs east-west through the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Adjacent land is mostly other state land, plus some hunting camps and cottages.

Unique, Natural Features (include only non-site specific and non-sensitive information): Both animal and mineral features have been reported.

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

Special Management Designations or Considerations: An old growth buffer along the sinkhole fault line has been proposed. The area is closed to wheeled motorized vehicles.

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

Wildlife Habitat Considerations and Objectives:

This compartment is located approximately eight miles south and a little east of Onaway. It is in the north portion of a 70 square mile landscape in both Presque Isle and Montmorency County made up mostly of State Forest Lands (SF). The topography is largely flat with some broad moraines.

The compartment is located in Ecoregion VII.6.1 of broad moraine ridges with excessively drained sandy soils. Kotar's cover typing system classifies this landscape as a pine management unit. Cover types range from PVCd in the center along with PArVVb-AFO, AFO-AFOCa, PArVHa-PArVVb & PArVVb in the eastern-half and wetlands in the far northwest corner. Fire history indicates that all but the western corner experienced frequent catastrophic stand replacing fires. GLO data suggest that the entire compartment was a mix of red and jack pine except for tamarack in the far northwest corner. A deer habitat potential model proposes that this area will move from shrub/grass to white pine, red pine, oak and jack pine with natural succession. The model rates this compartment for fall/winter food potential at 0.73, thermal cover potential at 0.0 and spring/summer habitat potential at 0.40. Today, jack pine (28%), aspen (27%), red pine (24%) and oak (12%) dominate the habitat in this compartment.

Today's cover types are providing a high (1,000+ acres) habitat potential for sharp-shinned hawk, northern goshawk, hognose snake, northern flicker, great-horned owl, elk, bobcat, bear, American toad, coyote and brown snake to name only a few species. The proposed treatments will have little impact, negatively or positively, on the species listed. The Red Pine project suggests a couple of stand conversions in this compartment. The plan recommends 40 acres of red pine be converted to aspen and northern hardwoods and 44 acres of oak/aspen be converted to natural red pine. Following this recommendation will result in improving ruffed grouse habitat by 40% and veery by 30% while having a negative impact on great-horned owls by -13%, ermine & brown snakes by -11% and coyote & bear by -8%.

Mineral Resource and Development Concerns and/or Restrictions: The area is mostly classified as non-development. A few 40s of are classified as "development with restrictions," including one directly on the fault line. MDNR may want to revisit that classification. There is one "development" forty is section 15. Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 200 feet. Beneath the glacial drift are the Devonian Antrim Shale and Traverse Group. The Antrim and Traverse are quarried for clay/shale and limestone/cement products near Alpena. A gravel pit is located one mile to the southwest and potential is good. This area has had some drilling for Silurian Niagaran Reefs, with production occurring to the north. Additional drilling is possible. The Antrim Shale is not present. There are no oil and gas leases in the Compartment, currently.

Vehicle Access: Roads to be closed as shown on compartment map. A director's order has already closed those parts of Compartments 120 and 123 (directly to the south) which fall within the borders of County Road 634, Shoepac Lake Road, Tomahawk Lake Highway, and Elk Road. Enforcement has been difficult, as ORVs enter the area from Shoepac Lake Road, Elk Road, or the ORV Route in Compartment 123.

Survey Needs: None.

Recreational Facilities and Opportunities: The Shoepac Lake Access, Shoepac Lake Forest Campground, the Sinkholes Pathway, and the High Country Pathway are all popular attractions.

Fire Protection: This area contains a lot of jack pine and red pine stands. Access is good.

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: 120

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	440																										440
S Black Spruce		20																									20
V Bog or Marsh			7																								7
G Grass					8																						8
J Jack Pine							454																				454
L LowInd Brush									65																		65
P LowInd Poplr										12																	12
N Marsh											4																4
X Non Stocked													29														29
O Oak														197													197
R Red Pine																393											393
U Upland Brush																								31			31
Total	440	20	7		8		454		65	12	4		29	197		393								31			1660

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

PRESQUE ISLE COUNTY

COMPARTMENT: 120

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7025 Cds	Hardwood	80 Cds
Hardwood	301 Mbf	Softwood	730 Mbf
Softwood	6416 Cds	Sum CutVol	1540 Cds
Softwood	3607 Mbf		
Sum TotVol	21257 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1660		134	

ATLANTA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 120 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
16	R9	71	67	65	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : WAS THINNED IN 1973. LCR31:0.33 PArVHa to PArVVb										
Wld : Put down some tree length trees on the ground before burning.										
54	O5	20	67	50	oak	mature	final harvest	1		
comnts Fmd : Three 5-spots were cut in 1998. Resulting oak regeneration is taking a pounding from elk, while the advanced regeneration in residual stand is being ignored. Harvest residual stand using 4" product spec to leave young white pine and oak. SHORTWOOD ONLY to prevent oak regeneration from being returned to a frost prone height. Exclude from sale those portions of the stand lying west of the west-most 5-spot, to retain a choke point against motorized vehicles. Do not cut red pine or white pine. Manage for oak and pine mix.										
Wld : use drumming log spec in cut areas.										
116	R9	29	67	65	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : WAS THINNED IN 1973. LCR31:0.33 PArVHa										
Wld : put down some tree length bolts before burning.										
216	R9	14	67	65	red pine	immature	shelterwood-prep	1	cleaning & weeding	
comnts Fmd : WAS THINNED IN 1973. LCR31:0.33 PArVHa to PArVVb										
Wld : put down some tree length trees on the ground before burning. RED PINE PROJECT suggest this stand be converted to M.										
421	G0	3		65	grass	old growth (potential or actual)		0	opening maintenance	
comnts Fmd : POTENTIAL OLD GROWTH										
Wld : reclaim and establish as a natural grass opening by burning.										
428	G0	5		65	grass	old growth (potential or actual)		0	opening maintenance	
comnts Fmd : POTENTIAL OLD GROWTH										
Wld : reclaim orginal opening and maintain as a natural grass opening by burning.										
Total Acres.....		142								

**Proposed Treatments
With Limiting Factors**

Compartment: 120 Entry Year: 2007

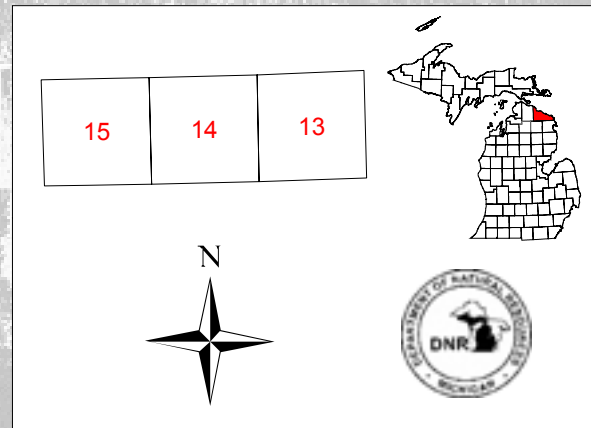
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 120
 T33N, R2E, Sec. 13-15
 County: Presque Isle
 Unit: Atlanta
 YOE: 2007
 Acres: 1,660 GIS Calculated
 Stand Examiner: Richard Barber
 Map Revised: 8/31/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- - Poor Dirt Roads
- - - Closed Roads
- Trails
- Pipelines
- Powerlines
- Hiking Trails
- Stand Boundary
- Biodiversity Area
- 027 - Opening Maintenance/Prescribed Burn
- 100 - Final Harvest
- 767 - Shelterwood-prep/Cleaning-weeding/Prescribed Burning

Name County Dirt Roads
 Name Poor Dirt Roads
 Name Trails
 Name Water Features

