



**PIGEON RIVER COUNTRY MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 37 ENTRY YEAR: 2008

Compartment Acreage: 1897 County: Ostego

Revision Date: 8/10/2006

Stand Examiner: Don Mittlestat

Legal Description: T32N R1W Sections 13, 14 and 15

RMU (if applicable):

Management Goals:

Maintain the current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and Topography:

The northern hardwoods are found primarily on Emmet Loams. The pine types are on Rubicon or roselawn sands. Lowlands areas of swamp conifers are found on organic peats.

The majority of the compartment is flat to gently rolling , with some steeper terrain in section 15.

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

This compartment is a solid block of state land surrounded by state land.

Unique, Natural Features:

There are none in this compartment

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

The Witness Tree is located at the west quarter corner of section 15.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Part of Hardwood Lake is in the compartment. The lake is very shallow.

Wildlife Habitat Considerations:

This compartment is mostly upland although there is a large conifer swamp south of Hardwood lake. The western part of the compartment is pine/oak/aspens and the eastern part is primarily northern hardwoods. There is a significant oak component throughout the upland portions of this compartment. Treatments will maintain the oak and create early successional habitat. Shelterwood/seed tree harvest will create mixed aspen/pine/oak regeneration and hardwood treatments will maintain hardwood types and oak. Openings created by Wildlife division will be maintained as needed.

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 400 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. An inactive gravel pit is located in Section 10 and potential is considered good. This area was previously leased for Niagaran oil and gas development and several wells, gas wells and dry holes, were drilled and are now abandoned. Additional Niagaran reefs could be found in the Compartment and the Antrim Shale is present and also has potential. The closest Antrim production is five miles to the southwest.

Consistent with the objectives of the Concept of Management there are no plans to engage in mining activities (sand, gravel, stone, etc.) in this Compartment. Consistent with the "Final Drilling Plan" for Unit 1, no additional oil and gas development will occur, including in the Antrim Shale.

Vehicle Access:

There is good access to this compartment. Roads designated to be closed to wheeled motorized traffic are still closed

Survey Needs:

None

Recreational Facilities and Opportunities:

A portion of the North spur of the Shore to shore horse trail passes through section 14.

Fire Protection:

Additional Compartment Information:

One of the original fire towers for this area was located in stand 64

- **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

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 37

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																Total	
		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
Aspen		13	32	11	69	24			2										151
Grass	43																		43
Jack Pine		4	20	6	15					7									52
Lowlnd Brush				5															5
Mx Swmp Cnfr				2									133	17					152
Oak				49					84	128									261
Red Pine									20	332									352
Tamarack				5															5
Treed Bog	15																		15
Upland Hdwds				2						200								332	534
Water	14																		14
White Pine			24	40					46	177		26							313
Total	72	17	76	120	84	24			152	844		26	133	17				332	1897

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 37

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	151																										151
G Grass					43																						43
J Jack Pine							52																				52
L Lowlnd Brush									5																		5
Q Mx Swmp Cnfr												152															152
O Oak														261													261
R Red Pine																317										35	352
T Tamarack																					5						5
D Treed Bog																							15				15
M Upland Hdwds																								534			534
Z Water																									14		14
W White Pine																										313	313
Total	151				43		52		5			152		261		317					5	15		534	14	348	1897

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **37**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8629 Cds	Hardwood	2168 Cds
Hardwood	4156 Mbf	Hardwood	534 Mbf
Softwood	5242 Cds	Softwood	516 Cds
Softwood	3915 Mbf	Softwood	839 Mbf
Sum TotVol	30013 Cds	Sum CutVol	5430 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	496
1897			

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 37

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
6	M9	110	86	65	northern hardwood	immature	selection	1			
comnts Fmd : 2006 WHEN CUTTING OAK IN THIS STAND MAKE AT LEAST A 60 FOOT OLE AROUND THE STUMP. MIXED AND HARDWOOD AND SOME OAK WOULD BE EXPECTED TO REGENERATE IN REGEN HOLES.											
11	M6	49		60	northern hardwood	immature	thinning	3			
comnts Fmd : THIS STAND WAS "CREATED" WHEN LAYING OUT THE HARVEST OF STANDS #6 AND #9 ADJACENT. THIS AREA WAS ONCE PART OF STAND #9 BUT WHEN PUTTING IN MY SALE LINES I SAW SOMETHING WHICH MADE ME EXCLUDE THIS FROM THE SALE AREA. WILL NEED TO LOOK AT THIS STAND IN DETAIL NEXT TIME AROUND. FOR NOW I JUST USED THE SAME DATA AS FOR STAND # 14.											
12	M9	102		55	northern hardwood	unevenaged	selection	3			
comnts Fmd : 2006 WHEN CUTTING OAK MAKE A 60 FOOT HOLE AROUND THE STUMP. SEE STAND 6 REGEN NOTE											
15	M9	29		65	northern hardwood	unevenaged	selection	3			
comnts Fmd : 2006 MIXED HARDWOODS WOULD BE EXPECTED TO REGENERATE IN RREGEN HOLES											
39	R8	5	85	55	red pine	two aged	removal	3			
comnts Fmd : 2006 THE UNDERSTORY IN THIS STAND VARIES FROM W3 TO A1 W2 U UNDERSTORY DIA. IS ABOUT 3 INCHES											
41	R9	59	86	60	red pine	immature	shelterwood-seed	2			
comnts Fmd : 2006 MAKE A HEAVY SHELTERWOOD CUT DO GROUP SELECTION MIXED PINE WITH SOME RED MAPLE AND ASPEN AS WELL AS SOME OAK WOULD BE THE EXPECTED RENERATION IN THE REGEN HOLES MADE IN THIS STAND.											
46	R9	35	86	50	red pine	immature	shelterwood-prep	1			
comnts Fmd : 2006 THE NORTH END OF THE STAND HAS A COUPLE OF ACRES OF NICE JACK PINE WHICH WAS STAND 52. LEAVES ASPEN STANDING. THERE SOME POCKETS OF ADVANCED ASPEN AND PINE REPRO IN THE STAND. MAKE REGEN HOLES. SEE REGEN NOTE FROM STAND 41											
56	W9	26	104	60	white pine	immature	thinning	1			
comnts Fmd : 2006 LEAVE ALL ASPEN											
75	M9	9		60	northern hardwood	immature	selection	3			
comnts Fmd : STAND WAS THINNED IN 1988 - 89. MIXED NORTHERN HARDWOOD REGEN WOULD BE THE EXPECTED REGEN IN REGEN HOLES IN THIS STAND.											
77	R9	37	83	55	red pine	immature	shelterwood-prep	2			
comnts Fmd : 2006 A LOT OF WITCH HAZEL IN THE STAND. DO A GROUP SELECTION. SEE REGEN NOTE FROM STAND 41											
78	R9	35	86	60	white pine	immature	thinning	2			
405	G0	2			grass	nonstocked		0	planting		
comnts Fmd : 2006 OLD OIL WELL SITE. WILD LIFE WILL RESTORE THIS SITE IN THE FUTURE											
407	G0	1			grass	nonstocked		0	planting		
comnts Fmd : 2006 OLD OIL WELL SITE. WILDLIFE WOULD LIKE TO RESTORE THIS SITE AT SOME TIME IN THE FUTURE.											
409	G0	12			grass	nonstocked		0	opening maintenance		
comnts Fmd : MANAGED WILDLIFE OPENING.											
410	G0	4			grass	nonstocked		0	opening maintenance		
comnts Fmd : MANAGED WILDLIFE OPENING.											
411	G0	2			grass	nonstocked		0	planting		
comnts Fmd : 2006 OLD OIL WELL SITE GRASS SWEETFERN AND SPOTTED KNAPWEED. WILDLIFE WOULD LIKE TO RESTORE THIS OLD PAD AT SOME TIME IN THE FUTURE.											
Total Acres.....		517									

**Proposed Treatments
With Limiting Factors**

Compartment: 37

Entry Year: 2008

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

Total Acres..... 0

Compartment 37
 T32N, R01W, Sec. 13-15
 County: Ostego
 Unit: Pigeon River Country
 YOE: 2008
 Acres: 1,897 GIS Calculated
 Stand Examiner: Don Mittlestat
 Map Revised: 6/15/2006
 Map Phase: Pre-Review

Field Map

Legend

- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Horse Trails
- Witness Tree
- Stand Boundary
- 016 - Planting
- 026 - Opening Maintenance
- 300 - Shelterwood-Seed
- 400 - Thinning
- 500 - Removal
- 700 - Shelterwood-Prep
- 800 - Selection

