



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

COMPARTMENT # 40 ENTRY YEAR: 2009

Compartment Acreage: 1419 County: Otsego

Revision Date: 8/23/2007

Stand Examiner: Don Mittlestat

Legal Description: T32N R1W Sections 28, 29, and 30

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 soils in this compartment are predominately Roselawn and Rubicon sands in the uplands. The lowlands are primarily organic peats.

Topography is generally flat to gently rolling. The southeast corner of Section 28 is lowland.

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

This compartment is a solid block of state land, bordered by private land to the west.

Unique, Natural Features:

None

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Round Lake is in this compartment. The center of Section 30 lies in the middle of the Pigeon River resulting in about 100 feet of State owned river frontage for fisherman access. A small portion to the Black River passes through Section 28.

Wildlife Habitat Considerations:

See wildlife comments.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 400 and 600 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 30 and potential is good on the upland areas. This area was previously leased for Niagaran oil and gas development and one well was drilled, a dry hole. Producing wells are located just to the south and additional Niagaran reefs may be located in the Compartment. The Antrim Shale is present and also has potential. The closest Antrim production is one mile to the west.

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. A berm need to be redone as vehicles are driving over or around it.

Survey Needs:

None

Recreational Facilities and Opportunities:

Round Lake State Forest Campground is in the compartment. The High Country Pathway and a spur of the pathway to and from Round Lake State Forest Campground are also in the compartment.

Fire Protection:

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

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 40

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		19	90	103					34										246
Bog or Marsh	6																		6
Cedar																	70		70
Grass	6																		6
Jack Pine					31														31
LowInd Brush	54																		54
Mx Swmp Cnfr														60			31		91
Red Pine			7				21		500	59	92	7							686
Swamp Hrdwds											15								15
Upland Brush	16	38	21																75
Upland Hdwds										42									42
Water	7																		7
White Pine		2	14	17					30	26	1								90
Total	89	59	132	120	31		21		564	127	108	7		60			101		1419

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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: 40

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	246																										246
V Bog or Marsh			6																								6
C Cedar				70																							70
G Grass					6																						6
J Jack Pine							31																				31
L Lowlnd Brush									54																		54
Q Mx Swmp Cnfr												91															91
R Red Pine															648										38	686	
E Swamp Hrdwds																			15								15
U Upland Brush	59				2																			14		75	
M Upland Hdwds																								42		42	
Z Water																									7	7	
W White Pine																										90	90
Total	305		6	70	8		31		54			91			648				15				14	42	7	128	1419

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **40**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2367 Cds	Hardwood	653 Cds
Hardwood	78 Mbf	Softwood	595 Cds
Softwood	5216 Cds	Softwood	998 Mbf
Softwood	5201 Mbf	Sum CutVol	3244 Cds
Sum TotVol	18141 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	224
1419			

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 40

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	R9	14	81	55	red pine	immature	shelterwood-seed	1		
comnts Fmd : 2007 RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
7	R9	16	94	60	red pine	mature	selection	3		
comnts Fmd : 1997 SELECTIVELY MARK POOR QUALITY PINE AND REMOVE ALL HARDWOOD AS WELL. 2007 Make some holes around the better white pine reproduction and make some big holes to try to encourage red pine to seed in. (thin some of the area more heavily) RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
9	R9	7	98	60	red pine	mature	shelterwood-seed	3		
comnts Fmd : 2007 RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
11	R9	3	94	60	red pine	mature	shelterwood-seed	1		
comnts Fmd : 2007 RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
13	R9	26	94	60	white pine	mature	seed tree	1	other - specify in remarks	
comnts Fmd : 2007 Leave all White Pine and protect White Pine reproduction. Leave Red Pine in clumps. Write sped to cut all hardwood over 2 " dia. Possibly scarify with smal tractor with chains.										
14	R9	16	94	60	red pine	mature	seed tree	1		
comnts Fmd : 1997 REMOVE ALL HARDWOOD AND SELECTIVELY MARK RED AND WHITE PINE TO CUT. 2007 RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
18	R9	7	94	60	white pine	mature	selection	3		
comnts Fmd : 2007 LEAVE 60 TO 70 BA. MAKE SOME PATCH CUTS. RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
32	W8	22	74	55	white pine	immature	shelterwood-seed	2		
comnts Fmd : 2007 TREAT THIS STAND TO ENCOURAGE WHITE PINE REPRODUCTION. MAKE SURE RESIDUAL IS HIGH ENOUGH TO DISCOURAGE WEEVILLING. RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
36	R9	8	95	55	red pine	immature	shelterwood-seed	3		
comnts Fmd : 2007 DO NOT CUT OAK. RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
39	R9	5	86	55	white pine	immature	selection	1		
comnts Fmd : 2007 NICE QUALITY WHITE PINE AS WELL AS RED PINE. TREAT TO THE POWERLINE. RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
41	U0	4			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 1997 PORTION OF THIS STAND ONCE WAS A WILDLIFE OPENING. 2007 There is some trash here where people often camp. (tires on wheels, glass, cans and some furniture parts in the woods to the south.)										
47	R6	20	74	60	red pine	immature	shelterwood-seed	3		
comnts Fmd : 2007 TREAT THIS STAND TO THE POWER LINE. A SLIVER OF THE STAND MAY BE IN COMP. 42. LEAVE MOST OF THE ASPEN AND WHITE BIRCH. RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
51	R6	23	74	60	red pine	immature	shelterwood-seed	2		
comnts Fmd : 2007 RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
60	R9	16	94	60	red pine	mature	thinning	2		
comnts Fmd : 2007 Do not allow stand 15 to be used as a landing or any rees to be felled in it. RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
66	U0	2			grass	nonstocked		0	opening maintenance	
comnts Fmd : PRESCRIBE BURN IN THE SPRING TO KILL BACK ENCROACHING BRUSH.										

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 40

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
67	U0	10			upland brush	nonstocked		0	opening maintenance	
comnts Fmd : 1997 PRESCRIBE BURN IN THE SPRING TO KILL BACK ENCROACHING BRUSH.										
71	R9	8	81	55	red pine	immature	shelterwood-seed	2		
comnts Fmd : 2007 RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.										
400	G0	3			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1997 PREVIOUS WILDLIFE OPENING.										
401	G0	1			grass	nonstocked		0	opening maintenance	
402	G0	2			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1997 PREVIOUS WILDLIFE OPENING.										
Total Acres.....		213								

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 40

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
65	A6	33	71	70	aspen (upland)	mature	final harvest	1		

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : 2007 THIS STAND IS ON AN ISLAND SURROUNDED BY WET SWAMP. THIS STAND WILL BE TREATED NON-COMMERCIALY. CUT ABOUT 1/2 THIS TREATMENT PERIOD. THIS WILL BE A WALK IN TREATMENT NO ROAD WILL BE BUILT. 2007 RED, WHITE AND JACK PINE AS WELL AS ASPEN, RED MAPLE AND OAK AND OTHER SPECIES WOULD BE ACCEPTABLE SPECIES FOR REPRODUCTION.

Total Acres..... 33

