



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

COMPARTMENT # 43 ENTRY YEAR: 2008

Compartment Acreage: 1889 County: Ostego

Revision Date: 8/10/2006

Stand Examiner: Don Mittlestat

Legal Description: T32N R1W Sections 34, 35, and 36

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:

Soils in this compartment range from Croswell and Blue Lakes Sands to Emmet loams while the lowlands are organic peats.

Topography in this compartment is mostly rolling uplands dominated by pine, aspen, oak and hardwood types. The wet part of Section 34 is part of a large coniferous swamp.

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

This compartment is a solid block of state land , except for one forty in section 36.

Unique, Natural Features:

There are none in this compartment

Archeological, Historical, and Cultural Features:

The firetower that once stood in section 36 has been removed.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The black river winds though the compartment, and is recognized for its brook trout fishery.

Wildlife Habitat Considerations:

This compartment is upland except along the Black River corridor of the compartment and a small part of the Black River swamp in the west. There is a relatively large amount of oak and aspen present and this area is used heavily by elk. Maintaining some early successional habitat, openings and oak are a priority and the treatments prescribed should accomplish this. There are a number of abandoned well pads in this compartment where invasive plants are dominant. These will be treated to restore them to forested types or productive grassy areas through combinations of conventional tillage practices, hand planting and tree spading.

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 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 25 and potential is good on the upland areas. This area was previously leased for Niagaran oil and gas development and several wells were drilled, all dry holes. Producing wells are located just to the southwest and additional Niagaran reefs may be located in the Compartment. The Antrim Shale is present and also has potential. The closest Antrim production is three 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:

The High Country Pathway passes through section 36. There is also a spur from the pathway to Town Corner Lake campground to the East of the compartment. The North spur of the Shore to Shore Horse Trail comes into the compartment on Chandler Dam Road for a short distance and goes out of the compartment to the north in section 35.

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: 43

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		28	166	153	34	226			18	108									733
Cedar										12									12
Grass	41																		41
Hemlock												3							3
Jack Pine				20		8			74	8	3								113
Lowlnd Brush	45																		45
Lowlnd Poplr												15							15
Marsh	1																		1
Mx Swmp Cnfr			10		1					37		212							260
Oak										95									95
Red Pine			55							19									74
Swamp Hrdwds										4		14							18
Tamarack			2																2
Treed Bog	9																		9
Upland Brush	14		54																68
Upland Hdwds						15			5	107	70								197
Water	1																		1
White Pine				5						156	26							15	202
Total	111	28	287	178	35	249			97	546	99	244						15	1889

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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: 43

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	733																										733
C Cedar				12																							12
G Grass					41																						41
H Hemlock						3																					3
J Jack Pine	20						93																				113
L LowInd Brush									45																		45
P LowInd Poplr										15																	15
N Marsh											1																1
Q Mx Swmp Cnfr												260															260
O Oak														95													95
R Red Pine																74											74
E Swamp Hrdwds																				18							18
T Tamarack																					2						2
D Treed Bog																						9					9
U Upland Brush	54																							14			68
M Upland Hdwds																								197			197
Z Water																									1		1
W White Pine					15																					187	202
Total	807			12	56	3	93		45	15	1	260		95		74				18	2	9	14	197	1	187	1889

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **43**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9724 Cds	Hardwood	2194 Cds
Hardwood	1039 Mbf	Hardwood	151 Mbf
Softwood	5871 Cds	Softwood	1428 Cds
Softwood	1625 Mbf	Softwood	138 Mbf
Sum TotVol	20923 Cds	Sum CutVol	4200 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	396
1889			

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 43

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
7	Q6	5	85	40	mixed swamp conifer	mature	final harvest	3		
comnts Fmd : 2006 IF THIS STAND IS CUT DO NOT CUT THE WHITE PINE? STAND ACREAGE MAY VARY WHEN THE ACTUAL LINE WORK IS DONE DUE TO TERRAIN AND WETTNESS OF THE SOILS. BE AWARE NOT TO ALLOW ANY RUTTING. WOULD EXPECT SPRUCE, FIR WHITE PINE, AND RED MAPLE AS WELL AS OTHER SWAMP CONIFERS TO REGENERATE IN THIS STAND.										
17	W6	17	79	55	white pine	immature	thinning	3		
18	W9	5	79	55	white pine	two aged	thinning	3		
33	A2	26	17	60	aspen (upland)	immature		0	thinning	
comnts Fmd : 2006 THERE ARE PATCHES OF A3 THAT MADE IT THOUGH THE ELK BROWSING. GUESSING 40 TO 50 % IS ASPEN, WITH THE REST A COMBINATION OF A1, W1, U TYPE AND G. BRIAN IS GOING TO HAVE SOMEONE MANUALLY CUT WHITTE PINE OUT OF THE ASPEN IN THIS STAND										
36	A2	19	17	60	aspen (upland)	immature		0	thinning	
comnts Fmd : 2006 THIS STAND HAS SOME GOOD PATCHES OF A3 BUT THERE IS A LOT OF U, W1 AND G WITHIN IT. THIS STAND IS IN BETTER SHAPE THAN STANDS 35, 45, AND 65. BRIAN IS GOING TO HAVE SOMEONE MANUALLY REMOVE WHITE PINE FROM ASPEN.										
41	A5	27	78	55	aspen (upland)	low quality	final harvest	3		
comnts Fmd : 2006 THIS STAND MAY HAVE TROUBLE REGENERATING IF THE ELK BROWSE IT TOO HEAVILY, WOULD EXPECT SOME WHITE PINE TO COME IN TOO.										
49	Q6	14	80	30	mixed swamp conifer	immature	final harvest	3		
comnts Fmd : 2006 COULD HARVEST SOME OF THIS STAND, SOIL CONDITIONS WILL AFFECT ACRES AND LINE RUNNING. LOTS OF VIBURNUMS IN THE STAND WILD RAISON OR NANNY BERRY. SHOULD EXPECT A MIX OF SWAMP CONIFERS, RED MAPLE AND POSSIBLY SOME ASPEN TO REGERATE.										
50	Q5	7	80	30	mixed swamp conifer	immature	final harvest	3		
comnts Fmd : 2006 THERE IS A LOT OF DEAD SPRUCE AND FIR IN THE STAND. COULD CUT THIS STAND BUT BOUNDARY MAY BE DIFFERENT FROM MAP DUE TO PATCHES OF Q3 AND SOIL CONDITIONS. THERE ARE A LOT OF VIBURNUMS IN THE STAND. SEE STAND 49 COMMENTS FOR REGEN										
68	A5	6	78	55	aspen (upland)	low quality	final harvest	3		
comnts Fmd : 2006 THIS STAND REPDUCTON SUCCESS COULD BE AFFECTED BY ELK BROWSING.										
69	A5	11	46	60	aspen (upland)	immature	final harvest	1		
comnts Fmd : 2006 SEE STAND 68 FOR REGEN COMMENT										
84	O6	95	78	60	oak	mature	thinning	1		
comnts Fmd : 2006 THERE ARE SEVERAL ASPEN CLONES IN THE STAND WHICH CAN BE REMOVED. THE SOUTHERN PART OF THE STAND HAS A WHITE PINE UNDERSTORY IN SOME PLACES. THERE IS SOME PRETTY NICE LOOKING OAK IN THE STAND ESP SMALL LOGS AND POLES. THE BIGGEST OAK ARE MAST AND DEN TREES, AND THEREFORE SHOULD FOR THE MOST PART BE LEFT. MARK OAK OUT OF AREAS WHERE ASPEN IS PREDOMINATE. IN THIS STAND REGEN WILL VARY FROM OAK TO ASPEN AND POSSIBLY SOME MIXED PINE AS WELL IN THE AREAS WHERE ASPEN IS PREDOMINATE.										
90	A6	15	78	60	aspen (upland)	mature	final harvest	3		
comnts Fmd : 2006 THIS STAND OF BIG TOOTH ASPEN IS ON A SOUTHWEST SLOPE AND STANDS A GOOD CHANGE OF BEING HEAVILY BROWSED BY ELK. I'M NOT SURE WHAT THE RESULTING STAND MIGHT BE, I AM AFRAID U MIGHT BE THE RESULT.										
96	J5	11	75	65	aspen (upland)	mature	final harvest	3		
comnts Fmd : 2006 LEAVE ANY RED AND WHITE PINE FOR SEED AS WELL AS VISUAL.										

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 43

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
100	J5	54	75	50	jack pine	mature	final harvest	1		
comnts Fmd : 2006 SOME OF THE JACK PINE HAS DIED. THERE IS A RED MAPLE UNDERSTORY IN THIS STAND THAT HAS BEEN BROWSED. THERE IS A MINI BOG TOWARD THE SOUTH EDGE OF THE STAND WHICH SHOULD BE BUFFERED. LEAVE THE RED AND WHITE PINE SAW LOG TREES, FOR SEED AND VISUAL. WOULD EXPECT JACK AND SOME RED AND WHITE PINE TO REGENERATE AS WELL AS RED MAPLE AND ASPEN AND POSSIBLY SOME OAK. DO NOT CUT OAK.										
103	R9	16	86	60	red pine	immature	shelterwood-seed	3		
comnts Fmd : 2006 WOULD EXPECT MIXED PINE AND SOME RED MAPLE AND ASPEN TO REGENERATE IN THIS STAND										
104	A5	18	75	60	aspen (upland)	mature	thinning	3		
comnts Fmd : 2006 THE HCP SPUR TO TOWN CORNER CAMPGROUND PASSES THROUGH THIS STAND. THERE IS A HEAVY UNDERSTORY OF WHITE PINE IN MOST OF THIS STAND. DO NOTCUT OAK IF THIS STAND IS CUT WOULD EXPECT ASPEN, RED MAPLE AND MIXED PINE TO REGENERATE										
113	A5	42	78	55	aspen (upland)	low quality	final harvest	3		
comnts Fmd : 2006 SEE STAND 41 REGEN COMMENTS.										
401	G0	2			grass	nonstocked		0	planting	
comnts Fmd : ABANDONED WELL SITE. WILDLIFE WOULD LIKE TO RESTORE THIS SITE AT SOME TIME.										
402	G0	1			grass	nonstocked		0	planting	
comnts Fmd : ABANDONED WELL SITE. WILDLIFE WOULD LIKE TO RESTORE THIS SITE AT SOME TIME.										
403	G0	19			grass	nonstocked		0	opening maintenance	
comnts Fmd : 2006 THIS STAND CONSISTS OF THREE ABANDONED WELL SITES AND A PIPELINE CORRIDOR. AUTUMN OLIVE HAS BEEN PLANTED ON THE WELL SITES AND THE PIPELINE CORRIDOR AND IS DOING VERY WELL. THERE IS ALSO SPOTTED KNAWEED AND ST. JOHN'S WART ON THESE AREAS, ESP PADS. THE 3 WELL SITES WHICH ARE PART OF THIS STAND WIL BE SCHEDULED TO RESTORATION.										
404	G0	5			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1995 WILDLIFE OPENING. 2006 ONCE WAS A MAINTAINED OPENING. NOW HAS ST. JOHN'S WART SWEET FERN AND PINE SEEDLING IN IT.										
405	G0	6			grass	nonstocked		0	opening maintenance	
comnts Fmd : 1995 WILDLIFE OPENING. 2006 wildlife opening that has been worked in the paast. Therre is sweet fern and St. John's Wart in this opening, as well as some pine seedlings.										
406	G0	2			grass	nonstocked		0	opening maintenance	
comnts Fmd : 2006 NOT SURE IF THIS IS ANBANDONED WELL PAD OR WILD LIFE CREATED OPENING. BRIAN WILL SECIDE IF HE WANTS TO WORK THIS OPENING OR RESTORE IT IN THE FUTURE.										
Total Acres.....		423								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
31	M9	27	85	55	northern hardwood	old growth (potential or actual)	selection	3		

TREATMENT LIMITING FACTORS: Potential or designated old growth

comnts Fmd : 1995 PURCHASED LANDS. THIN WITH STAND #25 TO THE EAST AND WITH STAND #86 IN COMPARTMENT 47 TO THE SOUTH. 2005 BECAUSE THIS STAND AND ST. 25 WERE HELD TO BE CUT WITH STANDS IN COMP. 47 THEY WILL BE TREATED THE SAME AS THOSE IN C47 UNTIL A DECISION IS MADE. IF THEY ARE NOT PART OF A HCVA THEY WILL HAVE THE SC 8 REMOVED AND TREATMENT CARRIED OUT. 2006 THIS STAND WAS BROKEN OUT FROM OLD STAND 24 AND IS UNDER THE SAME CRITERIA AS MENTIONED IN THE 2005 AND 1995 NOTE. IF THIS STAND IS EVER CUT SHOULD EXPECT MIXED NORTHERN HARDWOODS TO REGENERATE IN THE REGEN HOLES.

32	W9	26	93	55	white pine	old growth (potential or actual)	thinning	3		
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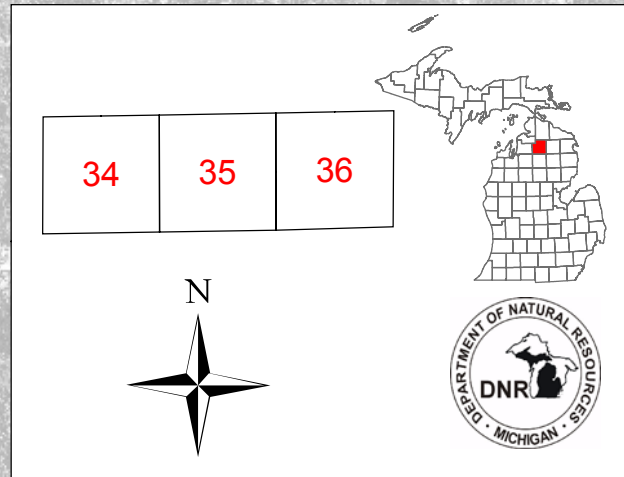
TREATMENT LIMITING FACTORS: Potential or designated old growth

comnts Fmd : 1995 THIN BY REMOVING THE POOREST FORMED TREES LEAVING ABOUT 70 SQ. FT. 2005 THIS STAND HAS BEEN GIVEN A SC 8 BECAUSE IT WAS HELD TO BE TREATED WITH STAND 88 IN C-47. IF THESE STANDS ARE NOT PART OF A HCVA THEY WILL HAVE THE SC 8 REMOVED AND PRESCRIPTIONS CARRIED OUT AS PLANNED. 2006 THE NOTES FROM 1995 AND 2005 APPLY AS TO OLD GROWTH POTENTIAL. IF THIS STAND IS EVER CUT SHOULD EXCEPT WHITE PINE, RED MAPLE AND SOME ASPEN TO REGENERATE N THE REGEN HOLES.

Total Acres..... 53

Field Map

Compartment 43
 T32N, R01W, Sec. 34, 35, 36
 County: Ostego
 Unit: Pigeon River Country
 YOE: 2008
 Acres: 1,889 GIS Calculated
 Stand Examiner: Don Mittlestat
 Map Revised: 6/15/2006
 Map Phase: Pre-review



Legend

- Miris Corners
- - - County Gravel Roads
- - - County Dirt Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Powerlines
- Pipelines
- Water Features
- - - Trails
- Hiking Trails
- Horse Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 016 - Planting
- 026 - Opening Maintenance
- 071 - Thinning/Hand Tools
- 100 - Final Harvest
- 300 - Shelterwood-Seed
- 400 - Thinning
- 800 - Selection

