



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

COMPARTMENT 61 ENTRY YEAR: 2008

Compartment Acreage: 2334 County: Cheboygan

Revision Date:

August 10, 2006

Stand Examiner:

Rick McDonald

Legal Description:

T33N - R01E sections 25-27, 35, 36

RMU (if applicable):

Not Applicable

Management Goals:

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

Soil and Topography:

Uplands are generally rolling to mostly level. Soils are predominantly sand of varying associations including, Rubicon and Cheboygan sands with Tawas peat in the lowlands.

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

Almost entirely state-owned land throughout the compartment with a few private parcels interspersed. Two large blocks of private land lie along the south and west boundary of this compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information):

A representative from Michigan's Natural Features Inventory will be on hand at the formal compartment review.

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

None identified.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Oxbow Creek, part of the Black River Watershed, enters the compartment from the south and makes a big loop and exits out the northeast corner. Oxbow Creek flows into Canada Creek.

Wildlife Habitat Considerations:

This compartment is primarily upland and is mostly mixes of aspen, oak and pine. It is adjacent to both Black River and Canada Creek ranch and there is the potential for heavy elk use. Prescriptions were made to maintain aspen and oak components and to regenerate both. All regeneration cuts will likely result in mixed stands of hardwood and conifer. There is relatively little grassy opening or U type within this compartment. Generally, soils are poor and productivity is low. Openings, including old well pads, will be treated if they become dominated by invasive plant species. They will be restored to forested types or productive grassy areas through combinations of conventional tillage practices, hand planting and tree spading. The proposed gas development within this compartment may provide an opportunity to increase the amount of productive opening present. Alternatives for opening enhancement for the life of the wells will be provided during the land use permitting process.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. The Glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. A gravel pit is located two miles to the east and potential is considered good on the uplands. This area is leased for oil and gas development in the Niagaran reef trend. Producing Niagaran reef wells are located in the Compartment and additional reefs may be located here. The Antrim Shale appears to be thin in this area and may not have potential.

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.

Vehicle Access:

There is good access to most, if not all, of the compartment. This is land formerly administered by the Indian River office, so it has not been managed under the PRC's vehicle access plan. Some roads have been closed with berms, however.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

No maintained recreational facilities exist within this compartment. However, the MCCCT cycle trail runs through the compartment.

Fire Protection:

Access is good in case of any fire suppression efforts, though the area is generally at low risk to any major wildfire potential. Some roads are closed with berms.

Additional Compartment Information:

A major gas/oil flowline runs north and south through the compartment. Also, a substantial Antrim gas development project is currently in the planning stages and will probably begin construction within the next year. Presently, 22 well site locations and a pumping facility are proposed within compartment boundaries.

➤ 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

CHEBOYGAN COUNTY

COMPARTMENT: 61

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	619																										619
S Black Spruce		183																									183
C Cedar				8																							8
G Grass					60																						60
J Jack Pine							714																				714
L LowInd Brush									136																		136
N Marsh											3																3
Q Mx Swmp Cnfr												66															66
O Oak														130													130
R Red Pine																375											375
F Spruce Fir																			6								6
U Upland Brush																								1			1
Z Water																									2		2
W White Pine																										31	31
Total	619	183		8	60		714		136		3	66		130		375			6					1	2	31	2334

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 61

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL VOLUME		CUT VOLUME	
Hardwood	10335 Cds	Hardwood	5931 Cds
Hardwood	1354 Mbf	Hardwood	412 Mbf
Softwood	13655 Cds	Softwood	2038 Cds
Softwood	3358 Mbf	Softwood	1723 Mbf
Sum TotVol	33414 Cds	Sum CutVol	12239 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	564
2334			

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 61

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
13	J6	49	77	45	jack pine	mature	seed tree	1		
comnts Fmd : Leave Oak. Although jack pine is the objective, any mix of pine, red maple and aspen will be acceptable.										
22	R9	18	69	55	red pine	mature	seed tree	1		
comnts Fmd : Mark some Oak. Although red pine is the objective, any mix of pine, red maple and aspen will be acceptable.										
36	R9	7	69	55	red pine	mature	shelterwood-seed	1		
comnts Fmd : Regeneration consisting of mixed pine, aspen and red maple would be satisfactory, but red pine would be preferred. Scarification of the soil should encourage the jack and red pine.										
37	R6	24	69	50	red pine	mature	shelterwood-seed	1		
comnts Fmd : See remarks from stand 36.										
39	A6	36	55	50	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave Oak										
42	J6	4	49	55	jack pine	mature	final harvest	1		
44	R9	81	69	55	red pine	mature	seed tree	1		
comnts Fmd : Scarification during normal logging operations should encourage red pine regeneration, but a mix of pine, aspen and hardwood would be satisfactory.										
45	R8	36	69	55	red pine	two aged	seed tree	1		
comnts Fmd : Stand had aspen and hardwood cut in 1998. South half is heavy to pine and is really an extension of stand 44, so will cut with std. 44. See also stand 44 comments.										
55	A6	42	63	49	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave Oak										
58	O6	29	63	52	oak	immature	thinning	1		
comnts Fmd : Remove Oak from heavier Aspen areas and thin some Oak from the heavier Oak areas.										
62	A6	44	71	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : Do not cut Oak.										
64	A6	40	74	60	aspen (upland)	mature	final harvest	1		
73	R9	53	69	60	red pine	mature	shelterwood-seed	1		
comnts Fmd : Although red pine is the objective, any mix of pine, red maple and aspen will be acceptable.										
74	J5	25	71	50	jack pine	high risk	final harvest	1		
comnts Fmd : Leave Oak Although jack pine is the objective, any mix of pine, red maple and aspen will be acceptable.										
77	A6	76	63	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Leave Oak. Submit to Advisory Council for input.										
Total Acres.....		564								

**Proposed Treatments
With Limiting Factors**

Compartment: 61

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

