



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 159

ENTRY YEAR: 2009
Compartment Acreage: 1,716
County: Cheboygan

Revision Date: 4/19/2007

Stand Examiner: Don Stacks, Dan Heckman, Shannon Harig

Legal Description: T33N R03W Sections 24, 25, 36.

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: Blue Lakes and Rubicon sands on rolling hills with a few steep slopes in the southern 1/3 of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership in the compartment is contiguous except for private acreage found in Section 36. The I-75 corridor also runs through Section 36. Agricultural and residential property is found to the north and east.

Unique, Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations: None listed.

Watershed and Fisheries Considerations: This compartment is in the Sturgeon River watershed, and contains part of Blackjack Creek, a tributary to Stewart Creek. Both Blackjack Creek and Stewart Creek are designated trout streams, and Stewart Creek has Type 1 trout stream regulations. There is illegal ORV use occurring at the bottom of a hill near Blackjack Creek, which is causing erosion. Efforts should be made to block off the area and implement erosion control. A buffer should be maintained in Stand 35 near Black Jack Creek to discourage Beaver activity.

Wildlife Habitat Considerations: This compartment contains mostly upland with a small amount of lowland around blackjack creek. This corridor is used by eagles, otter and many amphibians. This compartment is the western side of elk range. There is considerable elk usage in this compartment. Openings 402 and 401 should be prescribed for opening maintenance. Stand 2 is going to be clear cut to provide early successional habitat for elk, deer, grouse and woodcock. The edges of stand 4 will be cut to regenerate fir for snowshoe hare habitat. Stand 35 is not going to be cut to avoid drawing elk close to the I-75.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. The Devonian Antrim Shale and Traverse Group subcrop below the glacial drift. The Antrim and Traverse are quarried for cement products and stone elsewhere in the State. A gravel pit is located one mile to the east and there is good potential. The nearest oil and gas production, the Antrim Shale gas play, is located 1 mile to the west. The Antrim Shale is being developed in the area and all State lands are leased.

Vehicle Access: Multiple seasonal county roads and forest trail roads provide access into the compartment.

Survey Needs: None.

Recreational Facilities and Opportunities: A designated ORV trail runs through the compartment and a designated snowmobile trail runs along the southeast edge in Section 36.

Fire Protection: The Indian River Field Office is located approximately 12 miles to the north and the Wolverine VFD is located approximately 2 miles to the north.

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

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 159

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			22	17		55	12	65	9										180
Cedar													25	9					34
Grass	45																		45
Lowlnd Brush	7																		7
Mx Swmp Cnfr									19	33									52
Red Pine						30		120											150
Spruce Fir						47			25										72
Swamp Hrdwds													28						28
Upland Brush	60																	7	67
Upland Hdwds			67	55														959	1081
Total	112		89	72		132	12	185	53	33	28		25	9				966	1716

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

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CHEBOYGAN COUNTY

COMPARTMENT: 159

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	180																										180
C Cedar				34																							34
G Grass					45																						45
L Lowlnd Brush									7																		7
Q Mx Swmp Cnfr												52															52
R Red Pine																150											150
F Spruce Fir																			72								72
E Swamp Hrdwds																				28							28
U Upland Brush																								67			67
M Upland Hdwds																								1081			1081
Total	180			34	45				7			52				150			72	28				67	1081		1716

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: **159**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	21776 Cds	Hardwood	3516 Cds
Hardwood	1193 Mbf	Hardwood	223 Mbf
Softwood	3553 Cds	Softwood	720 Cds
Softwood	586 Mbf	Softwood	506 Mbf
Sum TotVol	28887 Cds	Sum CutVol	5694 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	392
1716			

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 159 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
2	A6	42	60	54	aspen (upland)	mature	final harvest	1			
comnts Fmd : MIXED STAND OF ASPEN, POOR QUALITY HARDWOOD, AND GRASS OPENINGS. MANAGE FOR ASPEN COMPONENT. FINAL HARVEST THIS Y.O.E.											
3	M6	58		55	northern hardwood	unevenaged	thinning	1			
comnts Fmd : EVEN-AGED HARDWOOD STAND, MOSTLY POLETIMBER. THIN TO 80 SQ. FT. B.A. CLONES OF ASPEN ALONG WEST EDGE OF STAND SHOULD BE HARVESTED, ALSO.											
5	M6	25		61	northern hardwood	unevenaged	thinning	1			
comnts Fmd : DENSE NORTHERN HARDWOOD POLETIMBER, DOMINATED BY RED MAPLE. NICE CROP TREES PRESENT. THIN STAND TO 80 SQ. FT. B.A. THIS Y.O.E.											
9	M6	109		59	northern hardwood	unevenaged	thinning	1			
comnts Fmd : SUGAR MAPLE AND BASSWOOD POLETIMBER WITH A FEW STEMS OF SAWTIMBER. THIN TO 80 SQ. FT. OF B.A. NO REGEN GAPS THIS Y.O.E.											
20	R9	110	67	68	red pine	mature	final harvest	1	planting		
comnts Fmd : REMOVAL HARVEST 11/2001. 70 SQ.FT. OF MOSTLY RED PINE SAWTIMBER REMAINS. DENSE BERRY BRUSH REGENERATION PRESENT. HARDWOOD (MOSTLY BEECH) AND ASPEN REGEN SPOTTY, DENSE IN PLACES BUT NOT WELL ESTABLISHED THROUGHOUT STAND. FINAL HARVEST RED PINE THIS Y.O.E. BEFORE DIAMETERS GET LARGER AND HARDWOOD COMPONENT BECOMES MORE ESTABLISHED. LEAVE AN ISLAND OF UNCUT MATURE RED PINE IN SW CORNER OF SALE AREA FOR RETENTION PURPOSES. PRESCRIBED BURN AFTER HARVEST. TRENCH, RE-PLANT RED PINE SEEDLINGS. 1 - 3 YEARS AFTER SEEDLINGS HAVE BEEN PLANTED, IT MAY BE NECESSARY TO APPLY HERBICIDE. FINALLY, PLANT SOME RED AND/OR WHITE OAK.											
35	A6	23	65	65	aspen (upland)	mature	final harvest	1			
comnts Fmd : MATURE MIXED ASPEN AND A LESSER AMOUNT OF HARDWOOD POLETIMBER ADJACENT TO I-75. FINAL HARVEST THIS Y.O.E. MAKING SURE TO LEAVE A SUITABLE BUFFER BETWEEN BLACK JACK CREEK, ADJACENT TO THE NORTH, AND HARVEST AREA BOUNDARY LINE. NO SIGN OF RECENT BEAVER ACTIVITY. MIXED ASPEN STAND ON THE NORTH SIDE OF THE CREEK WILL BE HELD AT LEAST 10 YEARS.											
104	A6	9	68	64	aspen (upland)	mature	final harvest	1			
comnts Fmd : LARGER DIAMETER, OVERMATURE ASPEN AND RED MAPLE POLETIMBER IN A TRANSITION AREA BETWEEN UPLAND HARDWOOD TO THE EAST AND POORLY DRAINED BALSAM FIR STAND TO THE WEST. WILDLIFE DIVISION REQUESTED THIS AREA TO BE FINAL HARVESTED THIS Y.O.E LEAVE NO RETENTION IN THIS STAND. HARVEST AREA IS NARROW.											
402	G0	15			grass	nonstocked		0	opening maintenance		
comnts Fmd : MANAGED WILDLIFE OPENING. PRESCRIBED FOR MECHANICAL OPENING MAINTENANCE.											
403	G0	6			grass	nonstocked		0	cleaning & weeding		
comnts Fmd : GRASS STAND WITH AUTUMN OLIVE PLANTED ALONG WEST AND SOUTH EDGES. REMOVE AUTUMN OLIVE FROM THIS STAND. PENDING TEST GAS WELL BY AURORA ENERGY, LTD. IN THIS STAND.											
404	G0	20			grass	nonstocked		0	cleaning & weeding		
comnts Fmd : GRASS WITH VERY LITTLE ENCROACHING HARDWOOD. AUTUMN OLIVE NEEDS TO BE REMOVED FROM THIS STAND. PENDING TEST DRILLING BY AURORA ENERGY, LTD. IN THIS STAND.											
Total Acres.....		417									

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 159 **Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
39	R6	16	44	63	red pine	immature	thinning	3		

TREATMENT LIMITING FACTORS: Too steep
Adjacent landowner denies access

comnts Fmd : VERY DIFFICULT ACCESS. PRESCRIBE ROW THIN WITH LIMITING FACTORS.

Total Acres..... 16

Field Map

Compartment 159
 T33N, R03W, Sec. 24, 25, 36
 County: Cheboygan
 Unit: Gaylord
 YOE: 2009
 Acres: 1,716 GIS Calculated
 Stand Examiner: Dan Heckman, Shannon Harig, Don Stacks
 Map Revised: 4/19/2007
 Map Phase: Pre-review

24
 25
 36



Legend

- Miris Corners
- Highway
- - - Poor Dirt
- - - Poor Dirt, County
- Trails
- Water Features
- ORV Trails
- Snowmobile Trails
- Stand Boundary
- 026 - Opening Maintenance
- 066 - Cleaning-weeding
- 100 - Final Harvest
- 117 - Final Harvest/Planting/Prescribed Burning
- 400 - Thinning

