



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 155

ENTRY YEAR: 2008

Compartment Acreage: 1,936

County: Cheboygan

Revision Date:

Stand Examiner: Don Stacks

Legal Description: T33N R3W Sections 4, 9 and 16.

Management Unit 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: Kalkaska and Blue Lakes Sands. Mostly flat ground with more steep terrain along the west edge of sections 4 and 9.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment 155 consists of three contiguous sections of entirely State-owned land. State land is located on the south and west sides, with private property found on the north and east.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: No known occurrences.

Special Management Designations or Considerations: Compartment 155 is managed on a 5 year-of-entry rotation, instead of the traditional 10 year because of the significant amount of mature red pine found in this compartment.

Watershed and Fisheries Considerations: This compartment contains portions of Marl Creek and W Br Sturgeon River, which are designated trout streams. Prescribed management actions are appropriate for the protection of this waterbody.

Wildlife Habitat Considerations: This area is mostly upland with a lot of red pine that was planted on hardwood soil. Some of the red pine areas will be cut and replanted and 4 stands will be cut and allowed to revert to hardwoods. Opening maintenance is prescribed for stands that have been planted in the past and were created by Wildlife Division. This area has occasional elk use and is on the western edge of their range.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. The Devonian Antrim Shale and Traverse Group subcrop below the glacial drift. The Antrim and Traverse are quarried for and cement products and stone elsewhere in the State. Gravel pits are located in the area and there is good potential. The nearest oil and gas production, the Antrim Shale gas play, is located 6 miles to the south. The Antrim Shale is thin to missing and there probably is no gas potential in this area. Leases are located just to the south of the Compartment.

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

Survey Needs: None

Recreational Facilities and Opportunities: A designated snowmobile trail and ORV trail exists within the compartment.

Fire Protection: Wolverine VFD is located about 3 miles to the east and the Indian River Field Office is located about 12 miles to the north to provide forest fire protection to the compartment.

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: 155

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen					5		11	14											30
Grass	19																		19
Lowlnd Brush	7																		7
Lowlnd Poplr				26															26
Marsh	6																		6
Mx Swmp Cnfr									67										67
Non Stocked	6																		6
Red Pine		137	69						746										952
Tamarack										2									2
Treed Bog	1																		1
Upland Brush	23	57																	80
Upland Hdwds		160	29	8														522	719
Water	21																		21
Total	83	354	98	34	5		11	14	813	2								522	1936

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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: 155

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	30																										30
G Grass					19																						19
L LowInd Brush									7																		7
P LowInd Poplr										26																	26
N Marsh											6																6
Q Mx Swmp Cnfr												67															67
X Non Stocked													6														6
R Red Pine																872								80			952
T Tamarack																					2						2
D Treed Bog																						1					1
U Upland Brush																57							23				80
M Upland Hdwds																197								522			719
Z Water																									21		21
Total	30				19				7	26	6	67	6			1126					2	1	23	602	21		1936

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 155

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8826 Cds	Hardwood	157 Cds
Hardwood	402 Mbf	Hardwood	959 Mbf
Softwood	843 Cds	Softwood	20 Cds
Softwood	10591 Mbf	Softwood	1227 Mbf
Sum TotVol	31655 Cds	Sum CutVol	4549 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1936		179	

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 155 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
1	R3	30	3	58	red pine	immature		0	release	
comnts Fmd : STAND WAS CLEAR CUT IN 1999. AERIAL HERBICIDE APPLICATION IN AUGUST 2002. HAND PLANTED TO RED PINE SPRING 2003. ANOTHER HERBICIDE APPLICATION WILL POSSIBLY BE NECESSARY IN THE NEXT 2 OR 3 YEARS TO HELP RELEASE RED PINE SEEDLINGS. SEEDLINGS 1-2 FEET HIGH.										
7	R3	37	3	69	red pine	immature		0	release	stand with fdf potential
comnts Fmd : STAND WAS CLEAR CUT IN 1999. AERIAL HERBICIDE APPLICATION IN AUGUST 2002. HAND PLANTED TO RED PINE SPRING 2003. WILL ALSO NEED A SECOND HERBICIDE APPLICATION IN A FEW YEARS TO HELP RELEASE RED PINE SEEDLINGS.										
9	M2	40	7	69	red pine	immature		0	planting	
comnts Fmd : STAND WAS CLEARCUT IN 1999. PRESCRIBED BURN SPRING 2003. WAS TRENCHED IN FALL OF 2005. FTP CALLS HAND PLANTING RED PINE SEEDLINGS IN SPRING 2006. AN AERIAL APPLICATION OF HERBICIDE WILL PROBABLY BE NECESSARY IN A COUPLE YEARS TO RELEASE SEEDLINGS FROM COMPETING VEGETATION.										
11	M3	8	18	69	red pine	immature		0	planting	
comnts Fmd : STAND IS ONE OF FIVE RED PINE CLEARCUT STRIPS FROM 1988. DENSE, YOUNG HARDWOOD REGEN PRESENT. AFTER ADJACENT RED PINE STRIPS ARE HARVESTED IN 2013, TRENCH AND RE-PLANT THESE STRIPS BACK TO RED PINE ALSO.										
12	R9	26	72	73	red pine	mature	final harvest	1	planting	prescribed for fdf treatment
comnts Fmd : MATURE RED PINE SAWTIMBER STAND. INCLUDES 4 STRIPS OF MATURE R.P. ALSO. CLEARCUT THIS STAND IN THE 2013 Y.O.E. CHIP TOPS TO REDUCE SLASH. TRENCH AND RE-PLANT RED PINE SEEDLINGS AFTER HARVEST. AERIAL HERBICIDE IN A COUPLE YEARS TO REDUCE COMPETITION ON NEW RED PINE SEEDLINGS.										
13	R9	17	72	71	northern hardwood	mature	delayed removal	1		prescribed for fdf treatment
comnts Fmd : REMOVE MATURE RED PINE SAWTIMBER DURING THE 2013 Y.O.E. STAND IS ALREADY CONVERTING TO NORTHERN HARDWOODS. DENSE HARDWOOD REGEN ALREADY PRESENT. TOPOOGRAPHY IN THIS STAND DOES NOT MAKE IT PRACTICAL TO REPLANT RED PINE.										
17	M3	29	8	69	red pine	immature		0	release	
comnts Fmd : STAND WAS CLEAR CUT IN 1998. HERBICIDE APPLIED AND RE-PLANTED TO TO RED PINE IN SPRING 2002. WILL NEED A SECOND APPLICATION OF HERBICIDE TO HELP RELEASE RED PINE SEEDLINGS, IF IT'S NOT ALREADY TOO LATE. MAY HAVE TO LET IT DEVELOP INTO A MIXED STAND AT THIS POINT.										
18	A5	14	65	58	aspen (upland)	mature	final harvest	1		
comnts Fmd : SMALLER, OLDER STAND OF LESSER QUALITY QUAKING ASPEN, BASSWOOD AND A FEW DYING JACK PINE. FINAL HARVEST THIS Y.O.E. AND MANAGE FOR ASPEN.										
21	R3	23	4	67	red pine	immature		0	release	stand with fdf potential
comnts Fmd : STAND WAS CLEAR CUT IN 1998, BURNED IN SUMMER 2000, HERBICIDED, TRENCHED 2001, AND HANDPLANTED RED PINE SEEDLINGS IN 2002. PROBABLY WOULD NOT BE A BAD IDEA TO REAPPLY HERBICIDE AGAIN IN THE NEXT COUPLE OF YEARS. ANOTHER HERBICIDE APPLICATION TOOK PLACE SEPTEMBER 2004.										
22	R3	41	4	67	red pine	immature		0	release	stand with fdf potential
comnts Fmd : STAND WAS CLEAR CUT IN 1998, BURNED IN SUMMER 2000, HERBICIDED, TRENCHED IN 2001, AND HAND PLANTED RED PINE SEEDLINGS IN 2002. STAND COULD USE SOME ADDITIONAL HERBICIDE IN THE NEXT COUPLE YEARS. ANOTHER HERBICIDE APPLICATION TOOK PLACE SEPTEMBER 2004.										
26	R9	59	72	66	red pine	mature	final harvest	1	planting	stand with fdf potential
comnts Fmd : MATURE RED PINE SAWTIMBER. FINAL HARVEST THIS STAND 2013 Y.O.E. TRENCH AND RE-PLANT TO RED PINE. MOST LIKELY WILL NEED AN AERIAL HERBICIDE APPLICATION TO HELP RELEASE SEEDLING FROM VEGETATIVE COMPETITION IN A COUPLE YEARS.										
40	M1	41	2	58	red pine	nonstocked		0	planting	
comnts Fmd : RED PINE FINAL HARVEST COMPLETED IN FALL 2004. ALL TOPS CHIPPED. SALE AREA WAS TRENCHED IN FALL 2005. FTP WILL CALL FOR PLANTING RED PINE SEEDLINGS IN 2006. IT MOST LIKELY WILL BE NECESSARY TO APPLY AN AERIAL HERBICIDE TO RELEASE SEEDLINGS FROM COMPETING VEGETATION IN A FEW YEARS.										

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 155 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
41	M1	42	1	58	red pine	nonstocked		0	planting	
comnts Fmd : RED PINE FINAL HARVEST COMPLETED 6/2005. SALE AREA WAS TRENCHED FALL 2005 WITH RED PINE SEEDLINGS TO BE PLANTED IN SPRING 2006. MOST LIKELY WILL NEED TO APPLY AN AERIAL HERBICIDE AT A LATER DATE, TO RELEASE SEEDLINGS FROM COMPETING VEGETATION.										
42	M1	37	1	69	red pine	nonstocked		0	planting	
comnts Fmd : RED PINE FINAL HARVEST COMPLETED 6/2005. SALE AREA WAS TRENCHED FALL 2005. FTP CALLS FOR PLANTING RED PINE SEEDLINGS IN 2006 AND MOST LIKELY APPLYING AN AERIAL HERBICIDE IN A FEW YEARS TO RELEASE SEEDLINGS FROM COMPETING VEGETATION.										
43	U2	29	2	69	red pine	nonstocked		0	planting	
comnts Fmd : RED PINE FINAL HARVEST COMPLETED 10/2004, TRENCHED IN FALL 2005. FTP HAS BEEN SUBMITTED TO RE-PLANT TO RED PINE. PROBABLY NEED TO APPLY AERIAL HERBICIDE 1 TO 2 YEARS AFTER RE-PLANTING TO SET BACK HARDWOOD REGEN AND RELEASE RED PINE SEEDLINGS.										
44	U2	28	2	67	red pine	nonstocked		0	planting	
comnts Fmd : RED PINE FINAL HARVEST COMPLETED 10/2004. TRENCHED IN FALL 2005. FTP HAS BEEN SUBMITTED TO RE-PLANT RED PINE SEEDLINGS. AERIAL HERBICIDE WILL PROBABLY BE APPLIED IN THE FIRST YEAR OR TWO AFTER PLANTING TO SET BACK HARDWOOD REGEN AND HELP RELEASE RED PINE SEEDLINGS.										
45	R9	26	72	71	northern hardwood	mature	delayed removal	1		prescribed for fdf treatment
comnts Fmd : MATURE RED PINE SAWTIMBER STAMD, ENCROACHING INTO N. HARDWOOD STAND. HARDWOOD POLETIMBER AND HEAVY HARDWOOD REGEN PRESENT. SOME LOCATED ON SLOPES. PRESECRIBE TO REMOVE RED PINE SAWTIMBER AND LET STAND CONTINUE TO DEVELOP INTO N. HARDWOOD POLETIMBER. NOT PRACTICAL AT THIS POINT IN TIME TO TRY TO SET BACK DENSE HARDWOOD REGEN AND RE-PLANT RED PINE ON SLOPES. MANAGE FOR N. HARDWOOD.										
46	R9	11	72	70	northern hardwood	mature	delayed removal	1		prescribed for fdf treatment
comnts Fmd : MATURE RED PINE SAWTIMBER STAMD, ENCROACHING INTO N. HARDWOOD STAND. HARDWOOD POLETIMBER AND HEAVY HARDWOOD REGEN PRESENT. SOME LOCATED ON SLOPES. PRESECRIBE TO REMOVE RED PINE SAWTIMBER AND LET STAND CONTINUE TO DEVELOP INTO N. HARDWOOD POLETIMBER. NOT PRACTICAL AT THIS POINT IN TIME TO TRY TO SET BACK DENSE HARDWOOD REGEN AND RE-PLANT RED PINE ON SLOPES. MANAGE FOR N. HARDWOOD.										
47	R9	26	72	70	northern hardwood	mature	delayed removal	1		prescribed for fdf treatment
comnts Fmd : MATURE RED PINE SAWTIMBER STAMD, ENCROACHING INTO N. HARDWOOD STAND. HARDWOOD POLETIMBER AND HEAVY HARDWOOD REGEN PRESENT. SOME LOCATED ON SLOPES. PRESECRIBE TO REMOVE RED PINE SAWTIMBER AND LET STAND CONTINUE TO DEVELOP INTO N. HARDWOOD POLETIMBER. NOT PRACTICAL AT THIS POINT IN TIME TO TRY TO SET BACK DENSE HARDWOOD REGEN AND RE-PLANT RED PINE ON SLOPES. MANAGE FOR N. HARDWOOD.										
121	R2	6	4	67	red pine	immature		0	release	stand with fdf potential
comnts Fmd : STAND WAS CLEAR CUT IN 1998, BURNED IN SUMMER 2000, HERBICIDED, TRENCHED 2001, AND HANDPLANTED RED PINE SEEDLINGS IN 2002. PROBABLY WOULD NOT BE A BAD IDEA TO REAPPLY HERBICIDE AGAIN IN THE NEXT COUPLE OF YEARS. ANOTHER HERBICIDE APPLICATION TOOK PLACE SEPTEMBER 2004.										
Total Acres.....		570								

**Proposed Treatments
With Limiting Factors**

Compartment: 155 **Entry Year: 2008**

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

Total Acres..... 0

Field Map

Compartment 155
 T33N, R03W, Sec. 4, 9, 16
 County: Cheboygan
 Unit: Gaylord
 YOY: 2008
 Acres: 1,936 GIS Calculated
 Stand Examiner: Donald Stacks
 Map Revised: 4/26/2006
 Map Phase: Pre-review



04

09

16



Legend

- Miris Corners
- - - County Gravel Roads
- Paved Roads
- Gravel Roads
- Water Features
- Trails
- ORV Trails
- Snowmobile Trails
- Stand Boundary
- 011 - Planting/Hand Tools
- 016 - Planting
- 027 - Opening Maintenance/Prescribed Burning
- 052 - Release/Aerial Application
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 600 - Delayed Removal

