



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 127

ENTRY YEAR: 2009
Compartment Acreage: 1,970
County: Emmet

Revision Date: April 13, 2007

Stand Examiner: Ken Phillips

Legal Description: T34N - R04W Sections 29, 30, 31 and 32
T34N - R05W Section 25

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: This compartment contains some very steep topography. Many of the slopes are too steep for commercial timber operations. Soils on the uplands are generally moderate quality loamy sands. Areas of lowland organic soils were found in the southeast portion of Section 32 as well as along the Minnehaha Creek in Section 29.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There are no private in holdings within this compartment however there are a tremendous number of shared property lines. The State-owned land within this compartment is primarily used for dispersed public recreation. Private land adjoining the compartment is seeing a rapid increase in residential development.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: Based on evidence found it appears that there were several logging camps or homesteads previously located within the compartment.

Special Management Designations or Considerations: None identified.

Watershed and Fisheries Considerations: This compartment includes the headwaters of Minnehaha Creek, a designated trout stream with Type 1 trout stream regulations. No management actions are prescribed for the riparian zone of this stream.

Wildlife Habitat Considerations: This compartment is primarily northern hardwoods. Areas of aspen and openings will be maintained for structural diversity. Some of the aspen will be held for 10 years because of visual concerns and to have a diversity of age classes over a longer time period. Old apple trees will be maintained.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till, 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 the Traverse are quarried for cement products and limestone elsewhere in the State. A gravel pit is located in Section 31 and potential is good. The nearest oil and gas production, the Antrim Shale gas play, is located five miles to the south. There is limited known oil and gas potential in the area.

Vehicle Access: Nearly all of the trail roads are restricted to the valley bottoms making vehicular access to large portions of this compartment. No new road closures are planned for this compartment.

Survey Needs: It is possible that some survey work will be required to validate private property boundaries if no nearby existing control corners can be identified.

Recreational Facilities and Opportunities: The Tomahawk motorcycle trail, the North Country Pathway and the Petoskey snowmobile trail are all found within this compartment.

Fire Protection: Most of the forested types within this compartment are deciduous and pose only a limited threat for wildfire danger. Steep slopes and limited access for fire equipment, however, would significantly alter typical fire fighting strategies. Fairly large fires of generally low intensity could occur as a result.

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

EMMET COUNTY

COMPARTMENT: 127

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																All Aged	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				
Aspen		83	17	127				48	21	23										319	
Grass	14																			14	
Lowlnd Brush	22																			22	
Mx Swmp Cnfr								53												53	
Red Pine						76			161	4										241	
Tamarack								22												22	
Upland Brush	68																			68	
Upland Hdwds			4						45		13									1166	1228
White Pine										1										2	3
Total	104	83	21	127		76		123	227	28	13									1168	1970

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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

EMMET COUNTY

COMPARTMENT: 127

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	319																										319	
G Grass					14																						14	
L Lowlnd Brush									22																		22	
Q Mx Swmp Cnfr												53															53	
R Red Pine															161									80			241	
T Tamarack																					22						22	
U Upland Brush																								68			68	
M Upland Hdwds	13																							1215			1228	
W White Pine																										3	3	
Total	332				14				22			53			161						22			68	1295		3	1970

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

EMMET COUNTY

COMPARTMENT: **127**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	27112 Cds	Hardwood	2872 Cds
Hardwood	1881 Mbf	Hardwood	46 Mbf
Softwood	4610 Cds	Softwood	1446 Cds
Softwood	2033 Mbf	Softwood	1085 Mbf
Sum TotVol	39550 Cds	Sum CutVol	6580 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1970		289	

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 127 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
1	M4	3	72	50	northern hardwood	sparse		0	pruning	
comnts Fmd : OPEN GROWN STAND OF CHERRY AND HARDWOOD THAT IS FILLING IN AN OPENING. THERE ARE ALSO SOME APPLE TREES THAT WILDLIFE DIVISION INDICATED THEY MIGHT WANT TO PRUNE.										
2	R6	50	44	60	red pine	immature	thinning	1		
comnts Fmd : STAND WAS PLANTED IN 1963. IT WAS THIRD ROW THINNED IN 1996. THIS TIME AROUND IT WILL NEED TO BE SELECTIVELY THINNED. WILL NEED A SEASONAL SNOWMOBILE SPECIFICATION PLUS SOME ADDED CONSIDERATION DUE TO THE NORTH COUNTRY PATHWAY. RECOMMEND THINNING TO ABOUT 110 SQ. FT. VERY FEW HARDWOODS EXIST IN THIS STAND. DO NOT SPECIFICALLY TARGET THE HARDWOODS FOR REMOVAL BUT ELIMINATE AS NEEDED TO IMPROVE OPERABILITY.										
4	M6	24		60	northern hardwood	unevenaged	selection	2		
comnts Fmd : NICE STAND THAT MAY NOT HAVE BEEN THINNED BEFORE DUE TO HILLY TERRAIN. WOULD LIKE TO TRY THOUGH IN CONJUNCTION WITH THE NEXT THINNING OF THE ADJACENT RED PINE. THE SOUTH PORTION HAS SOME HEMLOCK IN IT THAT SHOULD BE LEFT.										
5	R6	2	44	60	red pine	immature	thinning	1		
comnts Fmd : STAND WAS PLANTED IN 1963. IT WAS THIRD ROW THINNED IN 1996. THIS TIME AROUND IT WILL NEED TO BE SELECTIVELY THINNED. PRIVATE LINE TO THE SOUTH WILL NEED TO BE IDENTIFIED. TRY TO THIN TO ABOUT 110 SQ. FT. VERY FEW HARDWOODS EXIST IN THIS STAND. DO NOT SPECIFICALLY TARGET THE HARDWOODS FOR REMOVAL BUT ELIMINATE AS NEEDED TO IMPROVE OPERABILITY.										
13	A6	9	74	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : NICE SMALL STAND OF MATURE ASPEN/HARDWOOD MIX. SHOULD REGENERATE QUITE WELL TO A MIXTURE OF ASPEN AND HARDWOOD REGENERATION IF CUT.										
14	R6	12	47	65	red pine	immature	thinning	2		
comnts Fmd : THIS STAND HAS NEVER BEEN THINNED. LOTS OF HARDWOODS ARE INTERMIXED BUT SOME PORTIONS ARE VERY HEAVILY STOCKED PINE. DUE TO THE AMOUNT OF HARDWOODS IN THE STAND, A ROW THINNING MIGHT NOT BE PRACTICAL. MAY NEED TO SELECTIVELY MARK. DO NOT SPECIFICALLY TARGET THE HARDWOODS FOR REMOVAL BUT ELIMINATE AS NEEDED TO IMPROVE OPERABILITY.										
20	R6	6	47	65	red pine	immature	thinning	1		
comnts Fmd : THIS STAND WAS THIRD ROW THINNED IN 2000. COULD BE THINNED AGAIN NOW. TRY TO THIN DOWN TO ABOUT 110 SQ. FT. VERY FEW HARDWOODS EXIST IN THIS STAND. DO NOT SPECIFICALLY TARGET THE HARDWOODS FOR REMOVAL BUT ELIMINATE AS NEEDED TO IMPROVE OPERABILITY. DUE TO THE SMALL VOLUME TO BE REMOVED I WOULD PREFER THAT THE WOOD PRODUCTS BE FORWARDED SOUTH DOWN TO STAND #29 USING THE SAME SKID TRAIL THAT WAS USED IN 2000.										
29	R6	5	47	65	red pine	immature	thinning	2		
comnts Fmd : THIS STAND HAS NEVER BEEN THINNED. DUE TO THE AMOUNT OF HARDWOODS IN THE STAND A ROW THINNING MIGHT NOT BE PRACTICAL. MAY NEED TO SELECTIVELY MARK. DO NOT SPECIFICALLY TARGET THE HARDWOODS FOR REMOVAL BUT ELIMINATE AS NEEDED TO IMPROVE OPERABILITY.										
37	M6	13	91	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : THE ASPEN COMPONENT IN THIS STAND IS SIGNIFICANT ENOUGH THAT IT SHOULD BE FINAL HARVESTED AND MANAGED FOR ASPEN REGENERATION. THE STAND OCCUPIES FLAT GROUND SO IT WOULD BE EASILY HARVESTED. THE RESULTING REGENERATION WILL BE A MIXTURE OF ASPEN AND NORTHERN HARDWOOD SPECIES. AREAS OF THE STAND HEAVIEST TO NORTHERN HARDWOODS WOULD MAKE NICE RETENTION ISLANDS.										
39	A6	48	64	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : THIS STAND HAS MIXED AGE CLASSES IN IT. I WOULD RECOMMEND FINAL HARVESTING AT THIS TIME TO RE-ESTABLISH A UNIFORM AGE CLASS OF NATURAL REGENERATION. QUITE A HEAVY UNDERSTORY OF DEVELOPING HARDWOOD WOULD EVENTUALLY TAKE OVER THIS STAND WITHOUT TREATMENT. THE MOTORCYCLE TRAIL SHOULD BE MOVED TO THE NORTHERN EDGE OF THE HARVEST AREA PRIOR TO TREATMENT. IF ANY OAK IS PRESENT IT SHOULD BE LEFT IN CLUMPS FOR RETENTION. IN ADDITION, LEAVE SCATTERED SMALL REPRESENTATIVE RETENTION ISLANDS THROUGHOUT THE HARVEST AREA.										

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 127 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
40	A3	4	24	65	aspen (upland)	immature	final harvest	2		
comnts Fmd : THIS STAND WAS APPARENTLY CUT IN 1983 SIZE CLASSES RANGE FROM 2 - 5 INCHES IN DBH. I WOULD RECOMMEND CLEARCUTTING THIS WHEN STAND #39 IS CUT. THE ROAD LEADING THROUGH THIS STAND WILL NEED TO BE WIDENED DURING THE HARVESTING OF STAND #39 SO A LARGE PORTION OF THIS VERY NARROW STAND WILL BE DAMAGED ANYWAY. MIGHT BE BETTER TO START EVERYTHING OVER AT THE SAME TIME. NO RETENTION WILL BE NECESSARY IN THIS STAND SINCE ISLANDS WILL BE LEFT IN THE LARGER HARVEST AREA. THE STAND SHOULD REGENERATE QUITE SUCCESSFULLY PRIMARILY TO ASPEN BUT SOME NORTHERN HARDWOODS WILL ALSO RE-SPROUT AS WELL.										
42	M6	13		55	northern hardwood	unevenaged	selection	2		
comnts Fmd : THIS IS NOT GREAT QUALITY HARDWOOD BUT IT SHOULD STILL BE THINNED. WILL STRICTLY BE A LOW VALUE TSI SALE.										
49	R9	80	70	60	northern hardwood	mature	final harvest	1		
comnts Fmd : THIS STAND WAS THINNED IN THE MID-90'S. RECOMMEND FINAL HARVESTING THIS STAND AND ALLOWING IT TO CONVERT TO NORTHERN HARDWOODS. THIS RED PINE STAND IS GROWING ON A HARDWOOD SITE AND TRYING TO RE-ESTABLISH RED PINE HERE WOULD INVOLVE A CONSIDERABLE EFFORT IN ORDER TO CONTROL THE COMPETING HARDWOOD REGENERATION. RETENTION ISLANDS SHOULD BE LEFT FOR BIO-DIVERSITY. THE LOCATIONS OF THESE ISLANDS SHOULD ALSO BE DESIGNED TO HELP LESSEN THE IMPACT TO THE TRAVEL INFLUENCE ZONE. THE RESULTING REGENERATION WILL LIKELY BE A MIX OF NORTHERN HARDWOOD SPECIES ALONG WITH SCATTERED ASPEN. SOME PINE REGENERATION MIGHT ALSO BECOME ESTABLISHED ESPECIALLY WHERE THE SOIL IS EXPOSED DURING THE HARVEST OPERATION.										
60	U0	38			upland brush	nonstocked		0	pruning	
comnts Fmd : THIS IS PRIMARILY A FIELD OF OPEN GROWN WHITE PINE "BUSHES" ALONG WITH QUITE A FEW APPLE TREES. WILDLIFE DIVISION INDICATED THAT THEY MIGHT WANT TO PRUNE THESE APPLE TREES.										
65	A6	23	81	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : THIS STAND TRANSITIONS DOWN INTO A SWAMP STAND FURTHER TO THE SOUTH. QUITE A BIT OF FIR IS IN THE UNDERSTORY. THIS IS NOT A HIGH QUALITY STAND BUT IT CERTAINLY SHOULD REGENERATE IF CUT. THE RESULTING REGENERATION WILL HAVE FIR MIXED IN ALONG WITH ASPEN AND RED MAPLE. THIS HARVEST WILL CERTAINLY RESULT IN A SIGNIFICANT VISUAL IMPACT ALONG MAXWELL ROAD, BUT WE DECIDED NOT TO LEAVE RETENTION ISLANDS BECAUSE IT IS SO NARROW.										
Total Acres.....		330								

**Proposed Treatments
With Limiting Factors**

Compartment: 127

Entry Year: 2009

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

Compartment 127
 T34N, R04W, Sec. 29-32
 T34N, R05W, Sec. 25
 County: Emmet
 Unit: Gaylord
 YOE: 2009
 Acres: 1,970 GIS Calculated
 Stand Examiner: Ken Phillips
 Map Revised: 4/13/2007
 Map Phase: Pre-review

Field Map

Legend

-  Miris Corners
-  Paved,
-  Gravel,
-  Poor Dirt,
-  Closed,
-  Trails
-  Water Features
-  Motorcycle Trails
-  Snowmobile Trails
-  Hiking Trails
-  Stand Boundary

25	30	29
	31	32

