



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 29

ENTRY YEAR: 2008
Compartment Acreage: 2,422
County: OTSEGO

Revision Date: 4/26/2006

Stand Examiner: Tim Greco

Legal Description: T30N R4W Sec. 2, 3 and 10 - 15

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 is very flat with limited changes in topography. Dominant soil types are excessively drained and rapidly permeable Rubicon and Kalkaska Sands. These very dry, sandy soils formed on outwash plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership is fairly contiguous with surrounding private property being broken into 5 - 20 acre parcels for home construction and year around residences. The area is heavily developed by gas and oil industry with wells and pipeline common throughout the compartment and on surrounding private property.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This compartment is about 5 miles west of Gaylord and receives heavy recreational use. It is all upland and consists of aspen, red pine, white pine and northern hardwoods. The current prescriptions will maintain the age class and vegetation diversity of the area. Leaving large scattered white pine after the harvest and cutting and leaving trees within the harvest area will help increase structural diversity in this area.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1,000 feet. The Mississippian Coldwater and Sunbury Shales and Devonian Berea Sandstone and Bedford and Antrim Shales subcrop below the glacial drift. The Antrim is quarried for cement products. A gravel pit is located 2.5 miles to the northeast and potential should be good. Most of the compartment appears to be developed for Antrim Shale gas production and is located north of the Niagaran reef trend.

Vehicle Access: Access is good throughout the compartment.

Survey Needs: Many of the proposed treatments bound private property. Some survey assistance may be needed.

Recreational Facilities and Opportunities: This compartment contains the Pine Baron Pathway which has several miles of cross country ski trail. There is also a small segment of snowmobile trail on the east end of Sections 12 and 13.

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

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 29

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		133	77		79	24	107	18											438
Grass	69																		69
Red Pine			31			941	124												1096
Upland Brush	48																		48
Upland Hdwds						7	4											523	534
White Pine						46	186	5											237
Total	117	133	108		79	1018	421	23										523	2422

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

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GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 29

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	438																										438	
G Grass					69																						69	
R Red Pine																1096											1096	
U Upland Brush																								48			48	
M Upland Hdwds	11																								523		534	
W White Pine																										237	237	
Total	449				69											1096								48	523		237	2422

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 29

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	14941 Cds	Hardwood	3679 Cds
Hardwood	1197 Mbf	Hardwood	194 Mbf
Softwood	33317 Cds	Softwood	4321 Cds
Softwood	2291 Mbf	Softwood	302 Mbf
Sum TotVol	55234 Cds	Sum CutVol	8992 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	567
2422			

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 29

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
1	R6	10	56	65	red pine	immature	thinning	1		
comnts Fmd : NICE CLEAN/TALL RP. BCH AND BC SAPS UNDER. PINE TO THE WEST AND SW HAS BEEN C/C ON PVT. STAND TO EAST IS MARKED FOR ANOTHER THINNING.										
4	R2	1	16	65	red pine	immature		0	cleaning & weeding	
comnts Fmd : JP C/C 1988. RP PLANTED IN 1990. HERBICIDE RELEASE 1994. SCATTERED SUCCESSFUL PLANTATION ~ 25 FT TALL. MANY AREAS FAILING. COMPETITION IS MOSTLY BC AND ASP. SOME JP, OAK AND HDWD SEEDLINGS/SAPS. RUBUS. MANUAL REMOVAL OF COMPETITION.										
5	R6	3	51	65	red pine	immature	thinning	1		
comnts Fmd : THIRD ROW THINNING 1988. MARKED THINNING 2001. NICE RP CLEAN ~ 35 FT. CLEAN UNDERSTORY. SOME AREAS OF NATURAL RP REGEN. VISUAL MGMT OF STRIPS ALONG ROADS.										
8	R2	10	16	65	red pine	immature		0	cleaning & weeding	
comnts Fmd : JP C/C 1988. RP PLANTED IN 1990. HERBICIDE RELEASE 1994. SCATTERED SUCCESSFUL PLANTATION ~ 25 FT TALL. MANY AREAS FAILING. COMPETITION IS MOSTLY BC AND ASP. SOME JP, OAK AND HDWD SEEDLINGS/SAPS. RUBUS. MANUAL REMOVAL OF COMPETITION.										
9	R6	15	51	65	red pine	immature	thinning	1		
comnts Fmd : THIRD ROW THINNING 1988. MARKED THINNING 2001. NICE RP CLEAN ~ 35 FT. CLEAN UNDERSTORY. SOME AREAS OF NATURAL RP REGEN. VISUAL MGMT OF STRIPS ALONG ROADS.										
10	R6	19	41	65	red pine	immature	thinning	1		
comnts Fmd : THINNED 2001. NICE RP CLEAN ~ 30 FT. READY FOR MARKED THINNING.										
15	R6	23	41	60	red pine	immature	thinning	1		
comnts Fmd : LIMBY WITH A WIDE RANGE OF DIAM DEPENDING ON STOCKING. IRREGULAR ROWS - MAY NEED TO MARK.										
17	A6	6	66	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : A/RM STAND WITH AREAS OF SUPPRESSED RP UNDER. SOME WP AND BC. SAVE WP AND EXPAND INTO RP WHERE POSSIBLE.										
18	R6	25	41	60	red pine	immature	thinning	1		
comnts Fmd : MOSTLY WELL STOCKED - SOME SPARSE AREAS. LIMBY WITH IRREGULAR ROWS IS COMMON. MAY NEED TO MARK THE THINNING.										
23	R6	33	41	60	red pine	immature	thinning	1		
comnts Fmd : MOSTLY LIMBY RP IN IRREGULAR ROWS. SOME NICE AND SOME POOR QUALITY. MIX ED WITH SOME ASP, BC, RM AND WP.										
24	M6	44		60	northern hardwood	unevenaged	selection	1		
comnts Fmd : MOSTLY SINGLE STEM RM POLES. NICE STAND - HM SEEDLING/SAP UNDERSTORY. FAVOR HM. RUN LINE BETWEEN ADJACENT STAND TO EXCLUDE POOR QUALITY/NON MERCH.										
26	R6	22	46	65	red pine	immature	thinning	1		
comnts Fmd : GOOD QUALITY IN WELL STOCKED AREAS. RED LINE SHOULD ONLY INCLUDE PR THAT NEEDS THINNING. SOME HDWD MIXED IN AND SOME PORKY DAMAGE. MAY NEED TO MARK.										
30	A6	12	61	55	aspen (upland)	mature	final harvest	2		
comnts Fmd : THERE IS A FENCE ALONG THE PVT BOUNDARY. MOSTLY POOR QUALITY ASPEN. AREAS OF HEAVY WP UNDERSTORY ~ 20 - 30 FT TALL. LEAVE SOME WP - TAKE ENOUGH TO ENCOURAGE ASPEN REGEN.										
32	M6	49		65	northern hardwood	unevenaged	selection	1		
comnts Fmd : NICE HDWD WITH DECENT CROP TREES.										
36	M6	5		60	northern hardwood	unevenaged	selection	2		
comnts Fmd : MOSTLY FAIR QUALITY RM POLES WITH SOME OLD DECLINING ASPEN.										
38	M6	20		60	northern hardwood	unevenaged	selection	2		
comnts Fmd : MIX OF POOR TO GOOD QUALITY HDWD DOMINATED BY RM. ASPEN IS DECLINING. SOME NICE SINGLE STEMS.										

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 29

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
39	R6	88	41	60	red pine	immature	thinning	1			
comnts Fmd : MOSTLY WELL STOCKED - LIMBY BUT GOOD QUALITY. SOME SCATTERED ASP, RM AND BC. IRREGULAR ROWS.											
43	M6	3		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : GOOD QUALITY HDWD POLES.											
50	R6	24	41	60	red pine	immature	thinning	1			
comnts Fmd : TREES WELL SPACED - LIMBY. REMOVAL/THINNING 2002. IRREGULAR ROWS. AREAS ADJACENT TO C/C HAVE HEAVY UNDERSTORY. ONLY RUN RED LINE AROUND AREAS NEEDING THINNING.											
51	R6	14	41	55	red pine	immature	thinning	1			
comnts Fmd : PART OF A REMOVAL/MARKED THINNING 2002. AREAS OF THICK M3 UNDERSTORY ~ 8 FT TALL. MARK THIRD ROW THINNING. RUN RED LINE AROUND AREAS THAT NEED THINNING ONLY. AVOID A3/ADJACENT STAND.											
52	R6	13	41	60	red pine	immature	thinning	1			
comnts Fmd : THINNED 2002. NICE PINE - LIMBY. FAIRLY CLEAN UNDERSTORY. SOME OAK REGEN. AREAS OF HEAVY M3 FROM HEAVY THINNING.											
55	M6	7	41	65	aspen (upland)	mature	final harvest	2			
comnts Fmd : ASPEN MIXED WITH POOR QUALITY RM CLUMPS. SCATTERED WP UNDERSTORY - LEAVE. SOME UNDERPLANTED RP - CUT.											
60	A6	14	56	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : AREAS OF HEAVY WP. POOR QUALITY HDWD AND ASP COMMON. C/C AND MARK WP TO LEAVE. VISUAL CONCERN ALONG SKI TRAIL.											
68	A6	14	56	60	aspen (upland)	mature	final harvest	1			
comnts Fmd : AREAS OF MATURE ASPEN OVER UNDERPLANTED RP. C/C ASPEN AND PINE. MARK SOME PINE TO LEAVE.											
73	A6	3	46	65	aspen (upland)	mature	final harvest	1			
comnts Fmd : NICE ASPEN - C/C .											
79	M6	9		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : POOR TO FAIR QUALITY RM STAND. WEST IS CLUMPS WITH SOME HEMLOCK REGEN ~ 8 FT TALL. THIN - FAVOR HM.											
93	M6	4	51	60	aspen (upland)	mature	final harvest	1			
comnts Fmd : NICE ASPEN - WELL DISTRIBUTED MIXED WITH POOR QUALITY RM. NEW GAS WELL ON PVT TO THE NORTH. C/C.											
94	A6	3	56	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : NICE ASPEN MIXED WITH POOR QUALITY RM. MARK PINE TO LEAVE.											
95	A6	19	56	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : ASPEN IS OLD AND DECLINING. PINE IS NICE. HDWD IS POOR QUALITY. C/C - MARK SOME WP TO LEAVE.											
101	A6	38	56	60	aspen (upland)	mature	final harvest	1			
comnts Fmd : MIX OF ASPEN SIZE AND QUALITY. POOR QUALITY HDWD. SCATTERED WP ALSO VARIOUS SIZE AND QUALITY. C/C AND MARK WP TO LEAVE.											
106	A6	19	51	65	aspen (upland)	mature	final harvest	1			
comnts Fmd : MATURE ASPEN OVER WP SAPS AND POLES. C/C AND LEAVE ISLANDS OF WP UNCUT. ALSO, MARK SOME WP TO LEAVE.											
448	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : NICE CLEAN OPENING. RX FOR MAINTENANCE BY WILDLIFE DIVISION.											
Total Acres.....		570									

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 29

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	R6	5	56	65	red pine	immature	thinning	1		

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : SMALL PARCEL - NEVER THINNED. PINE ON PVT TO THE NORTH WAS C/C. NORTH EDGE EXPOSED TO WIND. THIRD ROW THIN AND/OR **DISPOSE OF PARCEL**.

57	M6	4		50	northern hardwood	unevenaged	selection	3		
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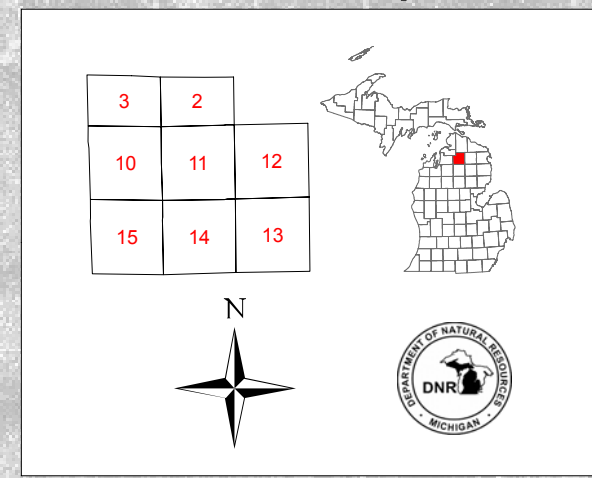
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : POOR QUALITY RM MIXED WITH DYING ASPEN. SOME WP IN UNDERSTORY. VERY SMALL STAND - LET ASPEN DIE OUT.

Total Acres..... 9

Compartment 29
 T30N, R04W, Sec. 2-3, 10-15
 County: Otsego
 Unit: Gaylord
 YOE: 2008
 Acres: 2,422 GIS Calculated
 Stand Examiner: Tim Greco
 Map Revised: 4/26/2006
 Map Phase: Pre-review

Field Map



- Legend**
- RLS Corners
 - Miris Corners
 - Highways
 - County Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Trails
 - Pipelines
 - Powerlines
 - Trailhead
 - State Highway
 - Snowmobile Trails
 - Ski Trails
 - Stand Boundary
 - 026 - Opening Maintenance
 - 061 - Cleaning-weeding/Hand Tools
 - 100 - Final Harvset
 - 400 - Thinning
 - 800 - Selection

