



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 52

ENTRY YEAR: 2009
Compartment Acreage: 1,522 Acres
County: ANTRIM & CHARLEVOIX

Revision Date: 4/6/2007

Stand Examiner: Kimberly Lentz

Legal Description: T31N, R7W, Sec. 1, 11, 12, 35, 36
T32N, R7W, Sec. 35 & 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: Soils are mostly poorly drained consisting of Pickford silty clay loam, Rudyard silt loam, Tawas Muck, and other loams. There are also a few areas of well-drained Emmet soils on the upland hilltops.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is surrounded by private land. Land use includes rabbit and deer hunting, snowmobiling, and use of the rivers.

Unique, Natural Features: The Jordan River which is a designated wild & scenic river runs through part of the compartment which is also classified under the Natural Rivers Act. The stands adjacent to the Jordan River, Todd Creek, and Bartholemew Creek have been nominated for a High Conservation Value Area which includes a strip 400' on either side of these waterways.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: The Jordan River with its wild & scenic designation, and its tributaries Todd Creek and Bartholemew Creek are all classified under the Natural Rivers Act. In the past, a lamprey electric weir was operated by the U.S. Fish and Wildlife Service at the canoe and fishing access site on the Jordan River. The equipment is still in place at this site.

Wildlife Habitat Considerations: The northern section of this compartment consists of a conifer swamp along the Jordan River adjacent to uplands that had been drained and farmed. These areas are mostly open or have some shrubs and trees growing in them. There is an opportunity to restore wetland in the northern part of the open area. There are also significant areas of buckthorn, an invasive shrub, which should be controlled. Restoring native plants and maintaining the openings are important for wildlife. Creating some early successional habitat through timber harvest would be beneficial. The southern portion of this compartment is mostly conifer swamp. This area is part of a larger swamp complex and is an important winter deeryard.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till, lacustrine (lake) sand and gravel and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Devonian Ellsworth and Antrim Shales and Traverse Group. The shales are quarried for cement products and the Traverse for limestone elsewhere in the State. A gravel pit is located in Section 2 and potential is good on the uplands. Oil and gas potential in the area is for the Antrim Shale gas play, but the State lands are in the Jordan Valley Management Area and surface use is not allowed. Most of the State lands have not been developed. The JVMA is offset by producing wells and is probably being drained of hydrocarbons.

Vehicle Access: The primary access is railroad grades with very poor road access due to the extensive wetland complex in this compartment. There are no road closures recommended at this time.

Survey Needs: The proposed treatments require very little survey work.

Recreational Facilities and Opportunities: This compartment contains a designated snowmobile trail as noted on the map. There is also a canoe and fishing access site at the Jordan River in Section 35 located west of Mt. Bliss Road.

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

ANTRIM COUNTY

COMPARTMENT: 52

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	77																										77
C Cedar				4																							4
G Grass					203																						203
L Lowlnd Brush									111																		111
N Marsh											159																159
Q Mx Swmp Cnfr												422															422
X Non Stocked													13														13
E Swamp Hrdwds																			315								315
U Upland Brush																							141				141
M Upland Hdwds																								62			62
Z Water																									10		10
W White Pine																										5	5
Total	77			4	203				111		159	422	13						315				141	62	10	5	1522

MACKINAW STATE FOREST

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Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5107 Cds	Hardwood	532 Cds
Hardwood	383 Mbf	Hardwood	51 Mbf
Softwood	4675 Cds	Softwood	10 Cds
Softwood	316 Mbf	Sum CutVol	644 Cds
Sum TotVol	11180 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	52
1522			

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 52

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
46	A6	11	59	58	aspen (upland)	mature	final harvest	2			
comnts Fmd : Aspen stand that has reached maturity. Aspen logs are defective, & final harvest prescribed prior to future volume loss. Best access from M-66 across open, brushy field. Check stand in summer months to determine if winter logging will be necessary.											
66	U0	18		50	upland brush	old growth (potential or actual)		0	opening maintenance		
comnts Fmd : Upland brush with a few scattered apple trees. A strip of this stand borders the Jordan River & qualifies as a HCVA. April, 2007: In pre-review, Wildlife Biologist recommended opening maintenance by burning or mechanical methods.											
425	G0	26		58	grass	nonstocked		0	opening maintenance		
comnts Fmd : Open field with some upland brush developing. April, 2007: In pre-review, Wildlife Biologist recommended opening maintenance by burning or mechanical methods.											
426	G0	27		58	grass	nonstocked		0	opening maintenance		
comnts Fmd : Open field with some upland brush developing. April, 2007: In pre-review, Wildlife Biologist recommended opening maintenance by burning or mechanical methods.											
Total Acres.....		82									

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 52

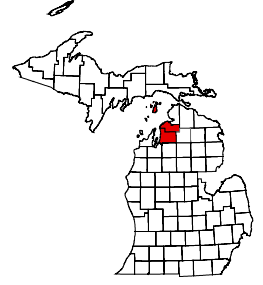
Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
3	A6	5	71	68	aspen (upland)	mature	final harvest	1		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access Too wet Inadequate volume due to small acreage										
comnts Fmd : FINAL HARVEST ASPEN.ACCESS FROM PRIVATE ROAD TO NORTH.										
26	M9	3	78	57	northern hardwood	mature	selection	3		
TREATMENT LIMITING FACTORS: Water quality/bmps Recreational site Inadequate volume due to small acreage										
comnts Fmd : M9 stand with a low volume & value of old relic sugar maple logs. Also, an E6 component. Prescribed a selection cut, but limited factor due to wet soils, need to winter log, and the access is on a heavily used snowmobile trail.										
34	E6	4	72	55	swamp hardwoods	mature	selection	3		
TREATMENT LIMITING FACTORS: Recreational site Water quality/bmps										
comnts Fmd : SELECT MARK RED MAPLE LOGS & POLES.SPECIES THIN ASPEN. 2007: Limit factor this stand due to wet soils making winter logging necessary. Also, main access is on a heavily used snowmobile trail where winter logging would be required.										
36	E6	16	77	52	swamp hardwoods	mature	selection	3		
TREATMENT LIMITING FACTORS: Water quality/bmps Recreational site										
comnts Fmd : SELECT MARK TO SALVAGE MATURE LOGS & THIN R.MAPLE POLES. Limit factor stand due to wet soils, need for winter logging, & snowmobile trail.										
39	A6	9	59	58	aspen (upland)	two aged	final harvest	3		
TREATMENT LIMITING FACTORS: Water quality/bmps										
comnts Fmd : Small aspen clone along railroad grade that is not snowmobiled, rather grown over with trees. Prescribed for final harvest with limiting factors due to adjacent wetlands.										
60	A6	4	75	70	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet Inadequate volume due to small acreage										
comnts Fmd : FINAL HARVEST PRESCRIBED YET NO ACCESS DUE TO RIVER & PRIVATE. 2007: Parts of stand is A9 with 14-18 dbh big tooth aspen.										
Total Acres.....		41								

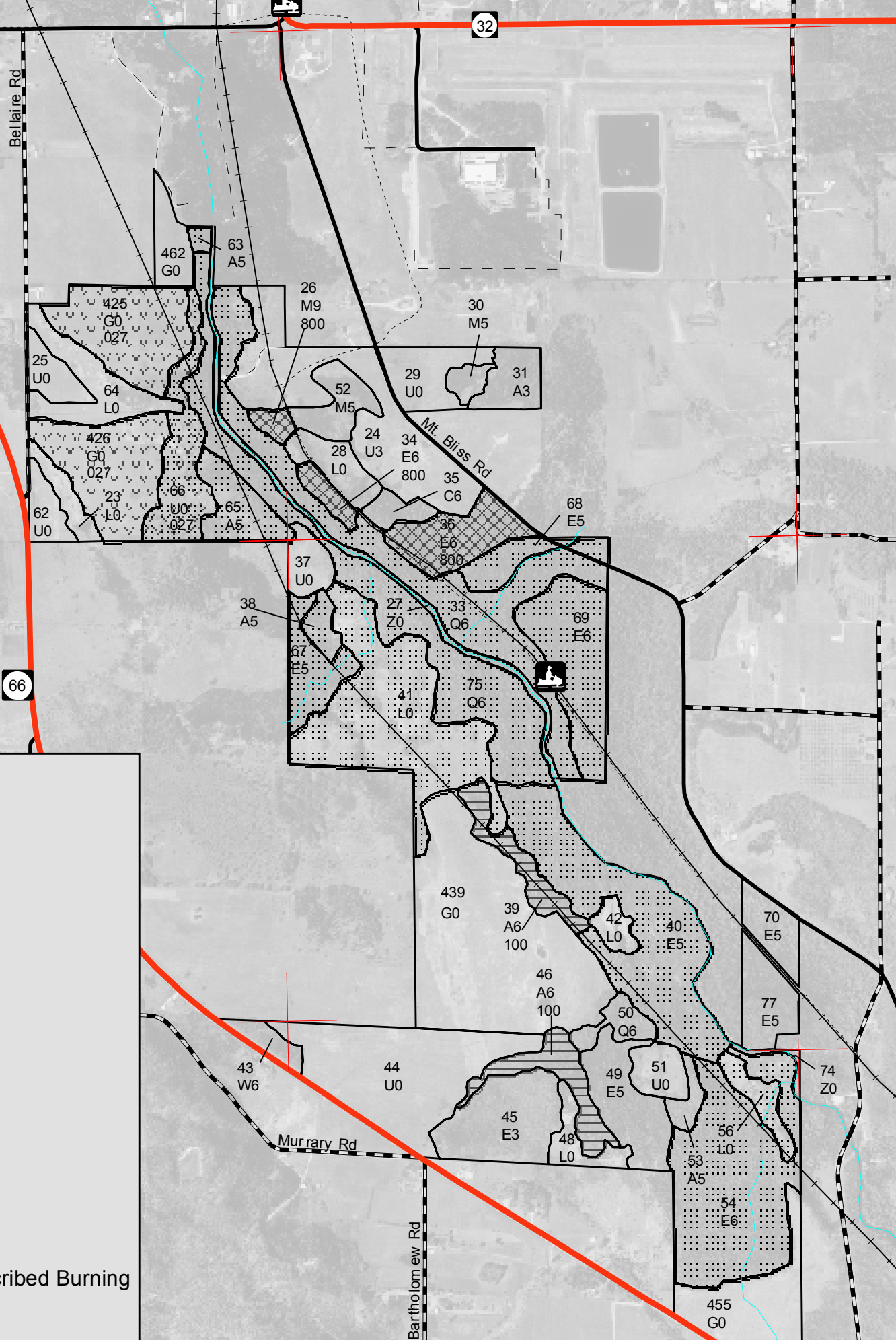
Field Map

Compartment 52
 T31N, R07W, Sec. 1, 11, 12, 35, 36
 T32N, R07W, Sec. 35, 36
 County: Antrim/Charlevoix
 Unit: Gaylord
 YOE: 2009
 Acres: 1,522 GIS Calculated
 Stand Examiner: Kim Lentz
 Map Revised: 4/26/2007
 Map Phase: Pre-Review

35	36
2	1
11	12

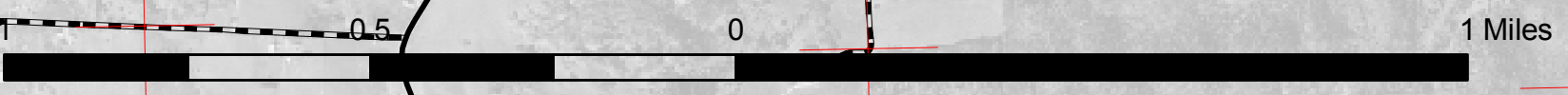


35	36
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Legend

- RLS Corners
- Miris Corners
- Highways
- County Paved Roads
- County Gravel Roads
- County Dirt Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trails
- Railroads
- Powerlines
- Water Features
- State Highway
- Snowmobile Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 027 - Opening Maintenance/Prescribed Burning
- 100 - Final Harvest
- 800 - Selection

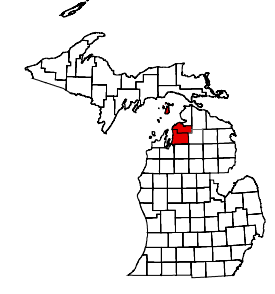


Field Map

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35	36
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35	36
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N

