



## FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 37 ENTRY YEAR:2009

Compartment Acreage: 1049      County: Gladwin

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**Revision Date:** May 2007, Oct. 2007

**Stand Examiner:** Steven Nyhoff

**Legal Description:** T19N, R1E, Sec. 9, 16, 21

**RMU (if applicable):** None

### **Management Goals:**

The aspen in the compartment was heavily harvested between 1990 and 1993. The regeneration in the compartment is mixed, though most stands have regenerated to at least medium stocking. Throughout the area pine and other conifer have been seeding in to the open areas. This is particularly noticeable in section 16. The growth on conifers is good with the pine putting on an average of 1.5 to 2 feet of growth a year, and tamarack and spruce putting on 6 inches to 1.5 feet of growth. This rate of growth has continued over the last several years.

One major hindrance to reproduction of aspen and other species in this compartment is the increase in beaver activity. During the OI process, five new beaver floodings have occurred in the compartment. Most of these floodings did not show up well on the newer NAIP imagery used for the 2009 YOE.

Continue to manage for the current cover type. Allow some of the stand to seed in and convert to pines and tamarack. In the next YOE, some of the aspen stand may need to be cut early to try to break up the age class distribution. This may be feasible as some of the site indexes are high enough to produce a pole stand at age 30.

### **Soil and Topography:**

The terrain in the compartment is generally flat but very hummocky. The water table is close to the surface through much of the compartment. The main soil types are Croswell-AuGres-Roscommon associations and Croswell-AuGres association. Other soils that have a significant component are Roscommon soil, Gladwin-Epoufette and Rubicon-Croswell, there area also some small inclusions of Tawas and Loxley Mucks.

### **Ownership Patterns, Development, and Land Use in and Around the Compartment:**

The land in this compartment is in sections 9, 16, and 21. In these sections, the land is contiguous and there is good access. The private holdings around the areas are in small ownerships on the north and east sides and larger ownerships on the west and south sides.

On the north and east sides of the compartment there are several subdivisions, M-30 Pinecrest subdivision 1-7, West River Drive Height Subdivision, and M-30 Heights subdivision. Most of the lots have been sold and now have permanent residences on them. Along the east side of the compartment there is a large ownership that shares the boundary of the compartment in much of sections 9 and 16. The private ownerships to the south and west of the compartment are larger. These properties are forested, some have permanent homes on them, and others are relational properties.

### **Unique, Natural Features (include only non-site specific and non-sensitive information):**

During the OI process, a Great Blue Heron Rookery was located in section 9. In addition, there area records of Ellpise (mussel) in all directions, Elktoe (mussel) to the west, Slippershell mussel to the northwest and southwest, and Great Blue Heron Rookeries to the southeast and northeast.

## **Archeological, Historical, and Cultural Features**

None recorded or located during the OI process.

## **Special Management Designations or Considerations:**

None

## **Watershed and Fisheries Considerations:**

The compartment has many lowland types ranging from swamp hardwood to leather leaf bog including lowland brush types and ponds. They range in size from less than 1 acre to greater than 50 acres. The land drains into 2 waterways, one to the east (the West Branch of the Tittabawassee River), and the other to the west (the Sugar River). These rivers join in section 28 which is south of the compartment. Therefore, if cultural treatments are done in the area, care must be exercised to avoid sedimentation entering the waterways.

## **Wildlife Habitat Considerations:**

A mix of cover types offers the basic essentials to a wide variety of wildlife species. Wetland communities are a dominant component of this compartment. Beaver and associated furbearers are frequently looked upon as nuisance animals because they affect the Midland to Mackinaw Boy Scout trail that runs through this compartment. The combination of water and young aspen stands function as beaver magnets. Their presence will be long term.

The southern half of Compartment 37 provides good deer, grouse and woodcock habitat and associated hunting opportunities.

From a habitat perspective, the major limiting factor specific to this compartment is the

## **Mineral Resource and Development Concerns and/or Restrictions:**

Surface sediments consist of lacustrine (lake) clay, silt, sand and gravel. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand, and gravel potential is considered to be limited. Limited oil and gas exploration has occurred in this compartment. The two well abandoned Secord Field is located two miles to the east. The field produced 12,000 BO from the Dundee Limestone. There are no State oil and gas leases in the compartment currently.

## **Vehicle Access:**

Access to the compartment is good, having M-30 along the west side, Secord Dam Rd thru the compartment, and West River Drive along the east side. Many of the interior trails have been closed, but most of the closures have been bypassed by ORVs.

## **Survey Needs:**

Between the subdivision along the north and east sides of the compartment and the remonumentation of section 21 and along M-30 no surveys are needed.

## **Recreational Facilities and Opportunities:**

The Midland to Mackinaw Boy Scout trail runs through the compartment. The trail is in poor shape because of an increase in beaver activity flooding the trail in several places.

## **Fire Protection:**

## **Additional Compartment Information:**

The illegal ORV activity is still present, but at the current time, it has not increased. The majority of this activity is located in section 16 in the SE ¼ and along the trail that comes in from the north edge of section 9.

**\*\*\*\* Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

**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 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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 37

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not 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	Total
Aspen		14	327																341
Bog or Marsh	10																		10
Grass	11																		11
Local Name				6															6
Lowlnd Brush	256																		256
Paper Birch										9									9
Red Pine			7																7
Swamp Hrdwds			13						206										219
Tamarack				5															5
Upland Hdwds									7										7
Water	10																		10
White Pine		20	98					5	4	27								14	168
<b>Total</b>	<b>287</b>	<b>34</b>	<b>445</b>	<b>11</b>				<b>5</b>	<b>217</b>	<b>36</b>								<b>14</b>	<b>1049</b>

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 37

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	341																										341
V Bog or Marsh			10																								10
G Grass					11																						11
I Local Name								6																			6
L Lowlnd Brush									256																		256
B Paper Birch														9													9
R Red Pine															7												7
E Swamp Hrdwds																			219								219
T Tamarack																				5							5
M Upland Hdwds																								7			7
Z Water																									10		10
W White Pine	9																									159	168
<b>Total</b>	350		10		11			6	256						9	7				219	5			7	10	159	1049

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: **37**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2031 Cds	Hardwood	44 Cds
Hardwood	169 Mbf	Hardwood	10 Mbf
Softwood	973 Cds	Sum CutVol	64 Cds
Softwood	622 Mbf		
Sum TotVol	4586 Cds		
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	
1049		7	

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
114	M6	7	74	58	northern hardwood	immature	shelterwood-seed	1	natural regeneration	

comnts Fmd : Stand is hummocky but dryer then stand 14. The stand has more pine in the west end of the stand and more hardwood in the east.  
Harvest the stand by removing aspen and much of the hardwood leaving hardwood <6" , leave alll conifers. Mark some hardwood saw in the east end of the stand for visual where conifers are lacking.

Total Acres..... 7

**Proposed Treatments  
With Limiting Factors**

**Compartment: 37**

**Entry Year: 2009**

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<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
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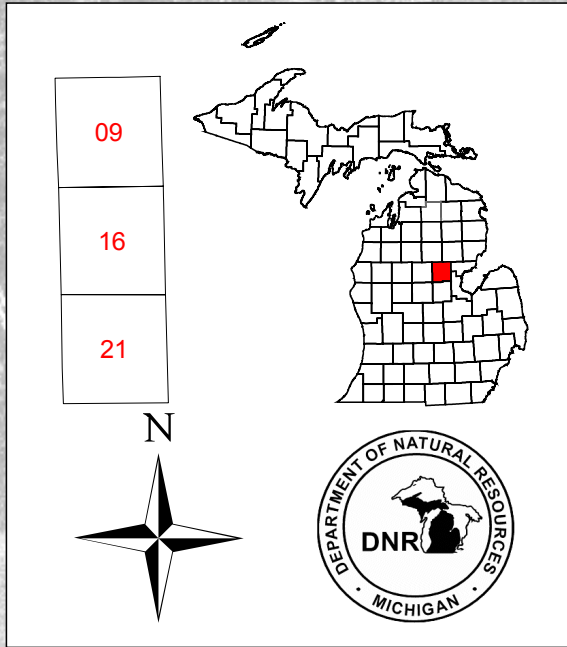
TREATMENT LIMITING FACTORS:

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**Total Acres..... 0**

# Field Map

Compartment 37  
 T19N, R1E, Sec. 9, 16, 21  
 County: Gladwin  
 Unit: Gladwin  
 YOE: 2009  
 Acres: 1,049 GIS Calculated  
 Stand Examiner: Steven Nyhoff  
 Map Revised: 10/22/2007  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- Highways
- Paved Roads
- - -** Gravel Roads
- - -** Poor Dirt Roads
- - -** Closed Roads
- - -** Trails
- State Highway
- Midland to Mackinaw Boy Scout Trail
- Stand Boundaries
- 348 - Shelterwood-seed/Natural Regeneration/Other

