



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 143 ENTRY YEAR: 2007

Compartment Acreage: 1736 County: Iosco

Revision Date: May 2007, Oct. 2007

Stand Examiner: Amy Jahnke, Doug Bates

Legal Description: T21N R06E, Sec 9-11 and 14-16

RMU (if applicable):

Management Goals:

Continue to manage this compartment for aspen, swamp hardwoods and white pine to maintain a variety of age classes. In future entry years, and concentrated effort needs to be made to even out the aspen and white pine age class distributions. A swamp hardwoods stand adjacent the Au Gres River extending down the length of the river will be managed as a buffer strip.

Soil and Topography:

The terrain is predominantly flat with gradual slopes undulating across the compartment. However, there are steep slopes along the Au Gres River banks. The primary soil type is Denford sand, which is characteristically very poorly-drained. A high seasonal water table will restrict equipment operation to dry or frozen condition for most of the compartment. Denford soils pose a severe threat to windthrow, which was noted in previous years' harvests throughout the compartment. Select cutting or strip cutting can help minimize this risk. Several minor intermittent drains run from northwest to southeast throughout, which will need to be crossed for harvest operations.

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

State land abuts this compartment to the east, while the remainder of parcels adjacent the compartment are privately owned. Resource damage is present in the area east of Sand Lake Road due to illegal ORV use from adjacent private owners. Several illegal blinds and traps, small dumpsites and trespass violations were also noted during inventory.

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

Wood Turtle (*Glyptemys insculpta*) has been sighted in this compartment, although none were sighted during the OI process.

Archeological, Historical, and Cultural Features

There are no records of sites in the area and no sites were identified during the OI process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

A lamprey weir maintained by the US Fish and Wildlife Service is located on the Au Gres River in Section 10 SESW.

Wildlife Habitat Considerations:**Mineral Resource and Development Concerns and/or Restrictions:**

Surface sediments consist of lacustrine (lake) sand and gravel and an end moraine of fine-textured till. The glacial drift thickness varies between 10 and 100 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan was quarried for gypsum in Section 16 and to the south. This area is predominantly sand, and gravel potential in the compartment is considered limited. The Sherman Field is located in Section 16. The Field produces from the Prairie du Chien. The compartment currently has several active leases associated with the Field.

Vehicle Access:

Gated access is provided to state forest two-tracks in the east via Sand Lake Road. Access is provided to the western portion of the compartment via Greenwood and Whittemore Roads. There is limited open internal access to the compartment for vehicles due to road obstructions of necessary repairs. These obstructions or repairs could be alleviated for land management activities if the need arises.

Survey Needs:

A remonumentation survey was completed in 2003. No additional survey needs at this time.

Recreational Facilities and Opportunities:

No official sites present. Hunting, trapping and fishing pressure is moderate to high. The lamprey weir provides easy fishing access to both sides of the Au Gres River.

Fire Protection:**Additional Compartment Information:**

**** 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

IOSCO COUNTY

COMPARTMENT: 143

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		144	279	221				7	39										690
LowInd Brush	30																		30
Marsh	49																		49
Non Stocked	34																		34
Swamp Hrdwds						149		61	147		68							71	496
Water	5																		5
White Pine		7				28	131	164	51	8	43								432
Total	118	151	279	221		177	131	232	237	8	111							71	1736

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: 143

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	651																									39	690
L LowInd Brush									30																		30
N Marsh											49																49
X Non Stocked													34														34
E Swamp Hrdwds	103																		374							19	496
Z Water																									5	5	
W White Pine	39																		7							386	432
Total	793								30		49		34						381						5	444	1736

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: **143**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6209 Cds	Hardwood	112 Cds
Hardwood	1611 Mbf	Hardwood	193 Mbf
Softwood	626 Cds	Softwood	220 Cds
Softwood	2655 Mbf	Softwood	307 Mbf
Sum TotVol	15367 Cds	Sum CutVol	1332 Cds
Total Cmpnt Acres		Acres Proposed For Cut.....	79
1736			

**Proposed Treatments
With NO Limiting Factors**

Compartment: 143

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
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Total Acres..... 0

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
1	W9	40	51	75	white pine	immature	final harvest	1	natural regeneration	

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Aspen understory is pole-sized. White pine age is 56. Thin white pine in dense patches down to 90 BA. Final harvest all other species to 2". May want to mark some white pine to harvest in areas where it would shade out aspen regen. Access will be a challenge. Across railroad to north, L-type to east and south, or private land to west. Through private would likely be best alternative, if permission is granted. Some drains and wet pockets scattered throughout stand.

26	A8	39	69	70	white pine	two aged	final harvest	1	natural regeneration	
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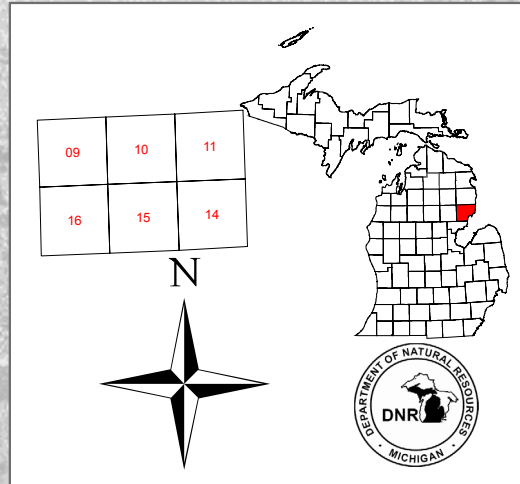
TREATMENT LIMITING FACTORS: Too wet

comnts Fmd : Aspen is dying out. Edges of stand have some E coming in. Rest has good pole-sized W regen. Stand was A9/W2. Final harvest all species except red pine. Leave all red pine and mark several clumps of white pine for retention. Wet areas of the stand may be left for retention as well. Best access is through gated two-track off Sand Lake Road and through stand 24. The stand is wet leave it to be habitat cut.

Total Acres..... 79

Field Map

Compartment 143
 T21N, R6E, Sec. 9-11, 14-16
 County: Iosco
 Unit: Gladwin
 YOE: 2009
 Acres: 1,736 GIS Calculated
 Stand Examiner: Steven Nyhoff
 Map Revised: 10/29/2007
 Map Phase: Pre-review



Legend

- ◆ RLS Corners
- Miris Corners
- Paved Roads
- - - Poor Dirt Roads
- Water Features
- Stand Boundaries
- 148 - Final Harvest/Natural Regeneration/Other

