



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 100 ENTRY YEAR: 2009

Compartment Acreage: 1061 County: Midland

Revision Date: June 2007, Oct. 2007

Stand Examiner: Steven Nyhoff

Legal Description: T16N, R1W, Sec. 26, 27, 34, and 35

RMU (if applicable): None

Management Goals:

The compartment has been heavily harvested in the last 30 years favoring the management of aspen. Currently most of the stands that are greater than 30 years old are either on wetter soils, sensitive soils or along subdivisions or creeks that were left as buffers.

Continue to manage the compartment for the current cover types. In the future, look to divide and change some of the stands and their management objectives, continue to manage aspen on the dryer ridges but move some of the lower wetter areas into swamp hardwoods.

Soil and Topography:

The land, for the most part, is flat to hummocky with some scattered ridges and broad depressions. The soils in the area are mainly Kingsville fine loamy sand (which is poorly drained) and Pipestone sand (which is somewhat poorly drained). These two soils make up 75% of all the soils in the compartment. The rest are a mixture of well to excessively drained ridges of Covert sand and Plainfield sand; and low depressions of very poorly drained Belleville, Cohoctah, and Lenawee; and organic soils of Kinross under the bogs and some of the lowland brush types.

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

The state land is contiguous with fair access to all parts of the compartment. The private ownerships are broken up with many landowners having small acreage.

Most of the private lands around the compartment are in two subdivisions; one is Verity Shores Subdivision, which is mainly in section 26 wrapping around state land. The other is Francis Shores Subdivision, which is in section 35. Both subdivisions are along Sanford Lake. The rest of the private lands in the compartment are either recreational and/or individual residences. Therefore, any harvesting done in this compartment needs to consider the visual impact.

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

There are no known records of threatened or endangered species in the compartment, and none were found during the OI process. There are records of Goshawk to the south, wood turtle north and to the west, Englemann's spike rush to the northeast and Three-awned grass to the southwest.

Archeological, Historical, and Cultural Features

None are recorded or located during the OI process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Two creeks flow through this compartment one is Verity Creek, the other is Black Creek. Both creeks flow into Sanford Lake. They both have defined banks and defined floodplains. These floodplains have the cover type of moderate to well-stocked swamp hardwoods, except where beavers have flooded out the timber. Most of the beaver activity in the compartment is found along Black Creek and its tributary.

The compartment also has many vernal ponds scattered throughout with several larger lowland brush stands and leather leaf bogs. These types are mainly found on the organic soils. Also in the compartment, there is a fish rearing "pond", stand 55. At present, the water control structure is intact but not being used. Therefore, there is no water ponded in the stand.

Wildlife Habitat Considerations:

This compartment is dominated by early successional habitat with some larger areas of mature forest habitats especially along Verity Creek. Wildlife focus in this compartment should be to maintain a diversity of mature and early successional forest habitats. The compartment has many small wetland pockets including a fish-rearing pond, which is currently drained but offers habitat for species such as sandhill cranes. Recent cuts have not regenerated uniformly although some areas show good aspen and oak regeneration.

Mineral Resource and Development Concerns and/or Restrictions:

Several abandoned well platforms are located within the compartment. The wells have been capped with concrete and all structures are removed.

Surface sediments consist of lacustrine (lake) sand & gravel and minor dune sand. The glacial drift thickness varies between 200 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 in the compartment is considered limited. The mostly abandoned Edenville Field is located in the Compartment. The field produced over 1.3 MBO from the Dundee since 1938. Part of Section 27 has been nominated for the November 2007 lease auction.

Vehicle Access:

Access to the compartment is good via several two-tracks that are in the compartment. One of the trails, called the 45-degree road, has had some maintenance done on it and gravel used to improve it. This has greatly improved the access to much of the compartment.

Survey Needs:

Much of the state land in sections 26 and 35 has been surveyed because of Verity Shores Subdivisions. Therefore, that area does not need surveyed. However, the private line in sections 27 and 34 are less defined. In the past old fences have been used to set up timber sales. They agree fairly well with the corners found in Sanford Lake Rd but I could not find the private corner located away from Sanford Lake Road. Therefore, a survey of these corners would be helpful in the future to set up timber sales. There is no need at the current time, for only a small part of one stand that is scheduled for harvest is along a private line this YOY.

Recreational Facilities and Opportunities:

The compartment has many trails in it that are used for hiking, mountain biking, and driving in the summer, and snowmobiling and skiing in the winter. There are also a scattering of disperse campsites in the area. Along Sanford Lake, there is a two track with parking area used by anglers to fish the lake.

Fire Protection:

Additional Compartment Information:

Currently compartment 100 and others (compartment 95, 96, 97, 98, 99, 104, 105 and 106) have seen an expansion of mountain bike trails. The trails are currently being mapped to make a base map so they can be evaluated. The DNR is working with the Mountain Bike Association to possibility making a sanctioned mountain bike trail in these compartments. This possibility is still tentative.

****** 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

MIDLAND COUNTY

COMPARTMENT: 100

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		83	249		233		16	37	15	7									640
Bog or Marsh	26																		26
Grass	10																		10
Lowlnd Brush	33																		33
Marsh	22																		22
Oak					40			29		6									75
Swamp Hrdwds		4	3					76	10	27	40							34	194
Upland Brush	1																		1
Upland Hdwds								35	11										46
White Pine											14								14
Total	92	87	252		273		16	177	36	40	54							34	1061

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: **100**

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	640																										640	
V Bog or Marsh			26																								26	
G Grass					10																						10	
L Lowlnd Brush									33																		33	
N Marsh											22																22	
O Oak														75													75	
E Swamp Hrdwds																			194								194	
U Upland Brush																								1			1	
M Upland Hdwds																								46			46	
W White Pine																										14	14	
Total	640		26		10				33		22			75					194					1	46		14	1061

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: **100**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4206 Cds	Hardwood	221 Cds
Hardwood	837 Mbf	Hardwood	41 Mbf
Softwood	163 Cds	Sum CutVol	303 Cds
Softwood	137 Mbf		
Sum TotVol	6317 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
1061		27	

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 100 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
18	O9	6	82	70	oak	low quality	shelterwood-seed	1	natural regeneration		
comnts Fmd : Some pockets in the stand are low and wet. The oak species in the stand are a mix of black, red, white, and swamp white. Harvest the stand as a shelterwood/seed tree retaining 20-30 BA of mainly oak. Remove all aspen and paperbirch. The soil under the stand is a mixture of Pipestone sand and Kingsville fine loamy sand.											
43	A5	21	66	55	aspen (upland)	immature	final harvest	1	natural regeneration		
comnts Fmd : This stand is mainly on the flat above Verity Creek. There appears that some areas in the stand that have standing water on surface in the spring but looks like it dries out in summer. The stand can be final harvested with reserves. The reserves should be trees with dens and cavity as well as some oak for mast. The main soil under the stand is Pipestone sand.											
Total Acres.....		27									

**Proposed Treatments
With Limiting Factors**

Compartment: 100

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 100
 T16N, R1W, Sec. 26, 27, 34, 35
 County: Midland
 Unit: Gladwin
 YOY: 2009
 Acres: 1,061 GIS Calculated
 Stand Examiner: Steven Nyhoff
 Map Revised: 10/22/2007
 Map Phase: Pre-review

Field Map

Legend

-  Miris Corners
-  Paved Roads
-  Gravel Roads
-  Poor Dirt Roads
-  Trails
-  gla100_trails
-  Water Features
-  Stand Boundaries
-  148 - Final Harvest/Natural Regeneration/Other
-  348 - Shelterwood-seed/Natural Regeneration/Other

