



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 110 ENTRY YEAR: 2007

Compartment Acreage: 1682 County: Midland

Revision Date: March 2005: May 2005: July 12, 2005: August 8, 2005: August 17, 2005

Stand Examiner: Steven Nyhoff

Legal Description: T15N R2W, Sections 34-36

RMU (if applicable): None

Management Goals:

The compartment has been heavily managed for early seccessional ecosystems in the past 30 years. The compartment is mainly aspen and oak on the upland, and swamp hardwood and lowland brush on the lowland. The compartment is lacking conifer cover, though white pine stump fields are common in the area. Continue to manage the current cover type and look for opportunities to increase conifer cover.

Soil and Topography:

The compartment is a mix of ridges surrounding broad wet areas. Many of the stands have considerable micro relief in the form of hummocky ground or areas with complex drainage patterns. The area has three large wetlands that make up approximately 20% of the land area.

The main soil types are Pipestone Sand and Covert Sand, which makes up most of the ridges in the compartment, and Kingsville loamy fine sand that makes up much of the low land. Also, the compartment has significant areas of Adrian muck and Kinross mucky sand that are components of the wetter lowland.

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

Overall the compartment is fairly contiguous with state land to the south, west, and north. There are several inclusions of private land, mainly in the east and central part of the compartment. The private lands in the central part of the compartment are mainly recreation properties, the properties to the east are permanent residences.

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

There were no threatened or endangered species located in the compartment during the OI process, or on file. There are reported species near the compartment, Red-shouldered hawks are to the east and south; Wood Turtle to the northeast, northwest, south and southwest; Snuffbox to the northeast and southeast; Riverine snaketail to the south, and an Eagle to the east of the compartment.

Archeological, Historical, and Cultural Features

No sites are on record or located during the OI process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The compartment has Carrol Creek running through the northern portion of the compartment. The creek is a man made drain that flows into the Tittabawassee River. The creek, for the most part, flows through E4/L and L-

Types that are not scheduled for any treatments. Where the creek does go through stands that are schedule to be treated, they are to be selectively harvested so the impact on the creek will be minimal.

Wildlife Habitat Considerations:

This area has a good mix of deciduous cover types ranging from leatherleaf bog through mature swamp hardwoods and aspen. There is also a good mix of age classes within the comp. many stands have a blueberry understory. This diversity provides an abundance of habitats for wildlife species. The comp. is used for deer hunting in the fall. Several open upland areas exist that may provide an opportunity to increase diversity by adding a conifer component to the comp. Most of the stand within this compartment are not very homogenous but consist of small patches of different cover types.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) sand and gravel and minor dune sand. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Jurassic Red Beds and 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. Mt. Pleasant Field is located 1.5 miles to the south. The Field has produced over 29 MBO since its discovery in 1928. Active State oil and gas leases are located to the south of the compartment.

Vehicle Access:

Access to the compartment is good most of the year with access from Olson road from the south; Geneva road from the west; Magruder road goes to the center; and Castor road to the east. There are also numerous two-tracks that run through the compartment.

Survey Needs:

For the most part there is not a problem with the private lines except in the east end, section 36. In this area of the compartment there are several stands that are scheduled to be harvested that are against the private land.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment. The main uses of the area are for hunting, hiking, and riding snowmobile. There is some illegal ORV use in the area but overall it is not too bad except in stand 403 which is being used as a scramble area.

Fire Protection:

The compartment has fair access for the most part and the cover types are not in fire prone species. Also the area is a mix of dry ridges intermixed with wetland and natural fire breaks so fire should not be a major problem. But if a fire did get started in the compartment there is the potential, because of the large amount of organic soils, that there could be extensive mop afterwards.

The access to the compartment could be greatly improved for fire suppression if the end of Magruder is repaired; currently there is a large water hole at the end.

Additional Compartment Information:

Most of the harvesting in the compartment this year of entry is in the dryer swamp hardwood and involves doing selections and species removals. Also during this last decade the state has obtained a 40 acre parcel that has very over mature aspen that needs to be harvested. Because of low tree vigor these stands will have to be harvested during the dormancy period.

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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: 110

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		59	241	59	158				22										539
Bog or Marsh	33																		33
Grass	14																		14
Lowlnd Brush	393																		393
Marsh	38																		38
Oak		80	38	4	67				5									16	210
Swamp Hrdwds			47		113	18			81									189	448
Water	7																		7
Total	485	139	326	63	338	18			108									205	1682

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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: 110

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	531													8													539
V Bog or Marsh			33																								33
G Grass					14																						14
L LowInd Brush									393																		393
N Marsh											38																38
O Oak														210													210
E Swamp Hrdwds																				448							448
Z Water																									7	7	
Total	531		33		14				393		38			218						448					7	1682	

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: 110

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7256 Cds	Hardwood	466 Cds
Hardwood	737 Mbf	Hardwood	220 Mbf
Softwood	4 Mbf	Sum CutVol	906 Cds
Sum TotVol	8738 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1682		133	

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 110 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
3	O9	5	75	65	oak	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : this stand is long and narrow and runs right along the private line. The actual size of the stand depends on the private line location. According to the GIS layer, we have a strip most of the length of the private line. This stand could be thinned removing 40 BA but it would not hurt to leave the stand for some diversity of age class and future wildlife trees. The soil is Pipestone Sand.										
5	O9	16		67	oak	unevenaged	selection	2	natural regeneration	
comnts Fmd : Stand is an oak type with some pocket of E. All aspen should be harvest and thin the rest down to 70-80 BA. The soils are moist so winter or dry weather would be needed to harvest. The management objective is oak but if the stand is mixed with a heavy component of aspen that will be acceptable. Also because of the variability in the stand the resulting BA will be variable with some areas having BA lower than 70 because of the high percentage of aspen. This is acceptable and should lead to a stand with som diversity. As per pre review (Consideration need to be taken into account when setting up the sale to protect the edge of Carrol Creek (buffer of 15-25 feet to keep bank of creek stable.)) The main soil type is Pipetstone Sand										
8	E6	51		80	swamp hardwoods	unevenaged	selection	2	natural regeneration	
comnts Fmd : This stand is variable with dryer ridges and areas of standing water. As per prereview (Remove the aspen from the stand. Keep away from edge of Carrol creek (15-25 feet) to keep the bank stable.) The soils are a mix of Kingsville loamy fine sand, Pipestone sand with areas of Belleville loamy sand.										
33	E6	45		65	swamp hardwoods	unevenaged	selection	1	natural regeneration	
comnts Fmd : This stand is hummocky and there are some problem with windthrow. The stand need to be treated so cut out the aspen and birch and thin from remaining trees to retain between 80 and 90 BA. After harvest the BA will be variable with the BA being lower then 80 on the ridges because of the high precentage of aspen which will be and in the draw it may be greater than 80 this is acceptable. The resulting stand should be a mix of swamp hardwoods and areas heavy to aspen. As pre preveview with wildlife; in areas of aspen clones mark all trees to maintain clones in the stand.										
36	O1	20	15	50	oak	sparse		0	other - specify in remarks	
comnts Fmd : Stand is low and is not regenerating well. Currently the stand is and O1E1 with lots of blueberry. The stand has many small oak seedling that appear not to be growing well and may be stimulated by burning. The burn will also stimulate the blueberry in the stand. The oak in the stand is mainly black. The ground is hummocky and the soil under the stand is Pipestone. (Wildlife to do FTP for burn)										
46	A5	8	72	68	oak	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand need to be harvested. So final harvest to 2" leaving advanced oak regeneration. The oak regeneration that is present is not overtopped so it should respond well to the removal of the overstory. The access to the stand would be from compartment 108. The management objective is oak but it is expected to be a mix of oak and aspen and if the stand does convert to aspen that is acceptable. This land was recently aquired.										
172	E6	8		70	swamp hardwoods	unevenaged	final harvest	2	natural regeneration	
comnts Fmd : This stand is a dryer knoll in stand 72 that could be harvested. The access to the stand will be from compartment 111 or off the 2-track to the north. The stand is dry enough to final harvest to 2" but mark some oak for mast and seed (1-2) per acre. The soil is Pipestone sand.										
Total Acres.....		153								

**Proposed Treatments
With Limiting Factors**

Compartment: 110 **Entry Year: 2007**

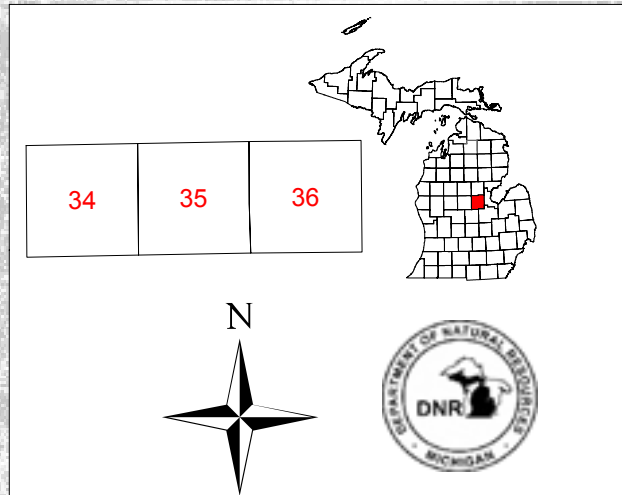
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 110
 T15N, R2W, Sec. 34-36
 County: Midland
 Unit: Gladwin
 YOE: 2007
 Acres: 1,682 GIS Calculated
 Stand Examiner: Steve Nyhoff
 Map Revised: 8/23/2005
 Map Phase: Pre-review



Legend

- Miris Corners
- - County Poor Dirt Roads
- = County Gravel Roads
- - - - Poor Dirt Roads
- Trails
- Hiking Trails
- Stand Boundary
- 097 - Other/Prescribed Burning
- 148 - Final Harvest/Natural Regeneration/Other
- 348 - Shelterwood-seed/Natural Regeneration/Other
- 848 - Selection/Natural Regeneration/Other

Name County Paved Roads
Name County Gravel Roads
Name Water Features

