



**GLADWIN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 93 ENTRY YEAR: 2007

Compartment Acreage: 1209 County: Midland

Revision Date: 5-09-2005, 8-01-2005, 8-17-2005

Stand Examiner: Kelly Standerfer

Legal Description: T16N-R2E, Sections 17, 18, 19 & 20

RMU (if applicable):

Management Goals:

This year of entry (YOE) treatments will be focused on flattening the aspen age class distribution. There is an abundance of aspen in the 30-40 and 40-50 age class' so stands that were in these age brackets were identified for a slightly early final harvest. There is also one land locked aspen stand that is in the 70-80 age class. This stand was identified for treatment last YOE however it never occurred due to no access. Contact has been made to an adjacent landowner and access looks very likely for this YOE however property line locations will be tricky. Overall, 129 acres of aspen have been identified for treatment this YOE. Of these 129 acres, 82 are factor limited due to the need of a survey. Approximate stand boundaries are a possibility however due to trespass issues in some areas a survey is needed.

Soil and Topography:

Soils within this compartment are comprised of the Kingsville-Pipestone-Covert association. These soils are nearly level and gently sloping, poorly drained to moderately well drained soils that have a sandy subsoil. They were formed in outwash of glacial lake deposits.

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

The State holdings are mostly in large contiguous blocks with some exceptions along Shearer Road and one eighty acre block that is landlocked. Lands surrounding the compartment are mostly forested wild land with numerous seasonal and residential dwellings along county roads.

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

This area has the potential to provide habitat for Blanding's turtle, spotted turtle, great blue heron rookery, eagle and osprey. It also has Potential for marsh birds: common moorhen, least bittern, yellow rail, king rail, marsh wren, American bittern, black tern, and Forster's tern.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

None known to exist.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The KawKawlin flooding is the headwaters for the KawKawlin River. This area has been designated as High Conservation Value Area due to its uniqueness to the region and its ability to support a wide variety of game and non-game wildlife species. There is an abundance of beaver activity in many of the drains throughout the compartment.

Wildlife Habitat Considerations:

The KawKawlin Flooding makes up a large portion of this compartment. The rest of the Comp. contains a large amount of wetland areas and beaver ponds. Black turns, a species of concern nest in the flooding. The primary wildlife goal of this comp. should be to compliment the flooding and associated wetlands. This area is heavily used by deer hunters as well as hikers and bird watchers. The flooding should be considered for designation as a HCVA.

Mineral Resource and Development Concerns and/or Restrictions:

There is some evidence of well sites and pipelines on adjacent private lands however no development has occurred on State ownership.

Surface sediments consist of lacustrine (lake) sand, gravel, clay and silt and 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. A gravel pit is located in Section 17 and potential is good on the uplands. There has been sparse oil and gas exploration in this area. Bentley Field is located five miles to the northeast. The field has produced over 3 MBO from the Richfield since 1952. There are no current oil and gas leases in the compartment.

Vehicle Access:

Vehicular access is limited due to relatively few roads and many areas of wet soils throughout the compartment

Survey Needs:

Numerous survey corners are needed to help identify the proper location of property lines. Survey corners would help with both current forest treatments as well as establishing firm trespass cases.

Recreational Facilities and Opportunities:

The trail head for the Midland to Mackinac Boy Scout trail is within this compartment.

Fire Protection:

No Significant control problems foreseen due to lack of explosive fuels and an abundance of natural fire breaks, such as low wet stands of timber, beaver ponds, and the KawKawlin flooding.

Additional Compartment Information:

Visual management concerns are critical along Shearer Road due to the heavy volume of daily traffic. There is no significant tree mortality in the area except in areas flooded by beaver.

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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: 93

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	597																			13							610
G Grass					10																						10
L LowInd Brush									47																		47
P LowInd Poplr										7																	7
N Marsh											107																107
X Non Stocked													8														8
E Swamp Hrdwds																				86							86
Z Water																									334	334	
Total	597				10				47	7	107		8							99					334	1209	

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: **93**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6136 Cds	Hardwood	2639 Cds
Hardwood	553 Mbf	Hardwood	330 Mbf
Sum TotVol	7242 Cds	Sum CutVol	3299 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1209		129	

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 93

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
35	A6	15	40	70	aspen (upland)	immature	final harvest	1			
comnts Fmd : Harvest this YOE so in 2017 cutting wont be on both sides of Shearer Rd. 2" spec all species except oak. Leave all oak, there is not much oak within this stand and it may help a little with visual management.											
119	A6	32	35	75	aspen (upland)	immature	final harvest	2			
comnts Fmd : Pretty variable stand. Some areas A3 and some A6. Treating this area a little early to break up the aspen age class dist. North end of the stand is more E-typish.. Buffer flooding roughly 150' to increase the chance of large cavity trees. 2" spec all species, but leave all oak as it is fairly small crowned and just reaching pole size and acorn producing size. Access will be very tricky but feasible. Road from township property is wet and crosses a large drain that would need a temporary culvert. Road from the south through 1998 clear cut is also feasible in the winter time. It would have to cross by a beaver dam at the west end of this stand.											
Total Acres.....		47									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
46	A6	49	44	75	aspen (upland)	immature	final harvest	1		

TREATMENT LIMITING FACTORS: Land survey needed

comnts Fmd : Harvest this portion of the old stand 12 this YOE to break up the age class dist. SW private corner and south end of stand runs along a new road on the private property. West edge is barb wired along private...seemed to be running accurately. Couldn't find Corner evidence at north end of stand. May need a survey to cut. Survey would also help with obvious trespass in stand 47. Cut into E-type as much as possible if there is an abundance of Aspen. Access will be tricky but it should be feasible in a good winter. Landing may have to be in stand 42 and freez a skid trail across the stand 44. Stand could also be accessed from private to the south, or through private where the trespass is occurring. AT THE PRE-REVIEW IT WAS AGREED THAT A LOGGER MAY NEED TO PUT IN A PERMANENT TUBE OFF OF SHEARER FOR HUNTING ACCESS TO THIS AREA

49	A6	33	74	68	aspen (upland)	mature	final harvest	1		
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TREATMENT LIMITING FACTORS: Land survey needed

comnts Fmd : Stand prescribed for cutting last YOE, wasn't cut due to access problems. 2" spec all species this YOE but leave all oak and pine for diversity. Some areas have nice oak in the understory, try to protect this as much as possible. East side of the stand is staked by private owner.. Seems accurate with declination and all. There is a survey done to the west of this 80 that would make it feasible to aproximate the northwest corner of this stand fairly accurately. Also the west end of the stand had some old blaze marks. I think it is feasible to establish fairly accurate cutting lines but a survey would definitely be best. Winter harvest only to help increase chance of good regen as the aspen is old and to help protect wet area within the stand. Two access opportunites exist both of which are from private. I talked with John Brown (private owner to the north) and he had mentioned that he may let a logger across his property although he would likely not let just anyone across, so a negotiated sale may be best with a reputable contractor. See the green sheet for phone#. I was unable to talk with the landwoner to the south.

Total Acres..... 82

