



**GLADWIN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 98 ENTRY YEAR: 2007

Compartment Acreage: 1360 County: Midland

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

Stand Examiner: Kelly Standerfer

Legal Description: T16N-R1W, Sections 28, 29, and 30

RMU (if applicable):

Management Goals:

There is only one stand that has been identified for treatment this year of entry (YOE), however due to poor road access and the relatively small size of the stand it has been factor limited due to low volumes. In 2017, there is one large aspen stand that could be broken up to help diversify the aspen age class within the compartment. Cultural treatments for this year of entry (2007) will focus on regenerating failed overmature aspen cuts that have regenerated poorly and have been heavily browsed by deer. Some of the areas that were treated last year of entry will be artificially planted or seeded to a mix of red pine and spruce. Also, some of the failed aspen areas have been prescribed for a controlled burn to help increase oak vigor. Within three stands (4, 3, and 7) deer exclosures of roughly 1/100th to 1/50th Acre may be put in place to see the effectiveness of the burn for stimulating oak that has not yet made it above the browse line.

Soil and Topography:

This compartment is comprised primarily of Kingsville-Pipestone-Covert soil associations. These soils are nearly level to gently sloping, poorly drained to moderately well drained soils that have a sandy subsoil or upper substratum. They were formed in outwash or glacial lake deposits. There are several large floodings within this compartment, one of which is the headwaters of the Black Creek.

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

Private lands adjacent to the compartment are mostly forested with no subdivisions or concentrations of dwellings. The State holdings are large continuous blocks. A previously land locked private 80 acre parcel has been acquired by the state creating 1360 acres of uninterrupted State ownership.

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

This area has the potential to provide habitat for many unique organisms including Wood turtle, Goshawk, Snuffbox, Engelmanns spike-rush, Three-awned grass, Blanding's turtle, and great blue heron rookery.

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:

Mud Creek bisects section 30 and flows through a natural lowland brush stand that is quite wide and gives the stream some protection from sediments. Beaver are very active in many of the drains throughout the compartment. Portions of the head waters for Black Creek are also included within this compartment.

Wildlife Habitat Considerations:

This comp. is dominated by large areas of lowland brush with open water inclusions. Lowland hardwood and aspen stands dominate the area. These areas are used extensively by deer hunters in the fall. Aspen harvests in recent years have not regenerated well creating quite a few open areas dominated by bracken fern. Habitat management should seek to retain the aspen component for deer, grouse, and other species. The area could also benefit from diversification of habitat types. Oak and other hard mast species should be encouraged. There have been confirmed sightings of wood turtles and in past ten years in this compartment.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) sand & gravel and minor clay and silt. 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. Edenville Field is located to the east. The field produced over 1.3 MBO from the Dundee since 1938. There are no current oil and gas leases in the compartment.

Vehicle Access:

The eastern portion of this compartment is accessed from West River Road by vehicles that go around existing earth berms. ORV damage isn't too excessive on the east end however due to many wet areas and poor road conditions, existing berms should be re-enforced to help minimize vehicular damage. The Western end of this compartment is accessed from Baker road and is heavily used by vehicular traffic. Some of the traffic is through very wet and sensitive areas and has caused extensive rutting and vegetative damage. Problem areas should be corrected and closed to vehicular traffic with the use of earth berms. (See attached map for details).

Survey Needs:

In the future numerous survey corners may be needed to help identify the proper location of property lines.

Recreational Facilities and Opportunities:

No officially designated or maintained sites however the areas is heavily recreated for hunting and camping.

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 and beaver ponds.

Additional Compartment Information:

08/29/2005 10:45:31 AM

Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: 98

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	466															56											522
L LowInd Brush									315																		315
N Marsh											34																34
O Oak														105		40											145
E Swamp Hrdwds																48				193							241
M Upland Hdwds														12													12
Z Water																									91	91	
Total	466								315		34			117		144				193					91	1360	

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

MIDLAND COUNTY

COMPARTMENT: **98**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2077 Cds	Hardwood	184 Cds
Hardwood	186 Mbf	Hardwood	22 Mbf
Sum TotVol	2449 Cds	Sum CutVol	228 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	12
1360			

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 98

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
3	O1	11	5	53	red pine	sparse		0	other - specify in remarks		
comnts Fmd : Stand CC in 2000. Very little to no aspen regen. E1/O1/A1. After site visit with scott throop and adam bump it was agreed to burn the site to help increase oak vigor. Will likely be very poorly stocked with many open areas if left alone. Stand will be interplanted with red pine and spruce after burn to help ensure adequate stocking. Resulting stand should be mixed oak and pine.											
6	O1	15	5	63	red pine	sparse		0	planting		
comnts Fmd : Clearcut 2000. Very poor Aspen regen, there is however a fair amount of oak- mainly white oak regen. Only dry areas of the stand were cut, wet areas were changed to stand 50. Interplant with red pine and spruce to help with pine cover in compartment and ensure good stocking.											
7	O1	14	5	53	red pine	sparse		0	other - specify in remarks		
comnts Fmd : Very little to no aspen regen as result of 2000 CC. Some aspen regen has made it to 3-4 feet tall and died off. Burn and interplant red pine and spruce to help with oak vigor and ensure adequate stocking. Resulting stand should be a mix of oak and pine											
17	E1	28	5	65	red pine	sparse		0	direct seeding		
comnts Fmd : Stand CC in 2000. Very little to no Aspen regen. Mainly soft maple stump sprouts with some advanced oak regen. Interplant with red pine and spruce to help ensure adequate stocking. Should result in a mixed oak and pine stand.											
18	E1	9	5	65	red pine	sparse		0	direct seeding		
comnts Fmd : Stand CC in 2000. Very little to no Aspen regen. Mainly soft maple stump sprouts with some advanced oak regen. Interplant with red pine and spruce to help ensure adequate stocking. Should result in a mixed oak and pine stand.											
19	E1	11	5	65	red pine	sparse		0	direct seeding		
comnts Fmd : Stand CC in 2000. Very little to no Aspen regen. Mainly soft maple stump sprouts with some advanced oak regen. Interplant with red pine and spruce to help ensure adequate stocking. Should result in a mixed oak and pine stand.											
31	A1	44	5	69	red pine	immature		0	planting		
comnts Fmd : Stand CC in 2000. Decent oak aspen mixed regen however there are some failed areas. Interplant with red pine and spruce to help ensure adequate stocking. Access will be tricky as the road is very wet in the spring. A fall planting will likely be needed due to wet areas within the road.											
65	A1	12	5	61	red pine	sparse		0	planting		
comnts Fmd : CC in 2000. South end of stand has very little aspen regen. North end is A1/A2 with scattered pockets of 2-3" oak. Stand will likely fill in over time with oak, maple and aspen. Interplant with spruce and red pine to ensure full stocking											
Total Acres.....		144									

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 98

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
36	M6	12	77	65	oak	two aged	shelterwood-seed	1	other - specify in remarks	

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle
Inadequate volume due to small acreage

comnts Fmd : Mixed red oak, pin oak, maple, birch, a few scattered aspen, and ash along two drains within the stand. Stand contains quite a bit of nice advanced oak regen (4-6"dbh). 2" spec. aspen, maple, birch. 8" spec mixed oak. Cut no ash to protect drainages within stand. Leave all pine to diversify regeneration. Green tree leave 10-20 BA of mixed oak as shelterwood/seed source in areas where there is no advanced regen. Burn stand after harvest to control soft maple sprouting and prepare seed bed for oak regen. Blue line could be tricky however the corner to the north east of this stand is in (private survey). Not sure on the corner that will be needed to the west however some old blue remains from the 2000 aspen clear cut. Stand is small in size and the only stand that needs treatment so factor limited due to small acreage and very poor access road

Total Acres..... 12

