



**GLADWIN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 26 ENTRY YEAR: 2007

Compartment Acreage: 1488 County: Gladwin

Revision Date: July 7, 2005

Stand Examiner: Tim Gallagher

Legal Description: T20N – R2W Sections 2, 10, 15, 16, 21, 22 & 28.

RMU (if applicable):

Management Goals: Diversify the aspen age class distribution. Approximately half of the aspen within the compartment is within the 30 to 40 year age class. Approximately 25% of this aspen has been identified for harvest this year of entry. That will allow 50% to be harvested next year of entry at the recommended rotation age and the remaining 25% to be harvest 10 years past rotation age.

Soil and Topography: The terrain consists of rolling hills with areas of steeper slopes; as much as 35% to 40% slopes were measured within the compartment. Soil types are variable ranging from wet Lupton muck along the North Branch Cedar River to well drained Montcalm loamy sand and Chelsea sand in the hills of section two.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private holdings are mostly comprised of large forested and farmland with single ownerships. Blue Lakes Subdivision is located inside the compartment boundaries. Several lots within the subdivision are directly adjacent to state lands. Some areas of state owned land within the compartment have limited access due to both ownership patterns and topography.

Unique, Natural Features: This area has a variety of rare species that could be or are present including; wood turtle, blanding's turtle, great blue heron, spotted turtle, massasauga rattle snake and eagle. Within the cedar swamps there is potential for; rams head orchid, calypso orchid and limestone oak fern.

Archeological, Historical, and Cultural Features: None know.

Special Management Designations or Considerations: None know

Watershed and Fisheries Considerations: The North Branch Cedar River bi-sects much of the compartment and is a cold water fishery (designated trout steam). There are several headwater stands within the compartment. Feeder creeks to the North Branch Cedar River and Sugar River form in these headwater stands. The eastern one third of section 2 is in the Sugar River Watershed and the rest of the compartment is in the Cedar River Watershed. These headwater stands are very sensitive: most of which are cedar stands. Care needs to be taken around these stands with any timber management activities: blow down is a concern in these stands.

Wildlife Habitat Considerations: Wildlife Habitat Considerations: The diversity of timber types, within compartment 26, provides habitat opportunities for numerous wildlife species. Aesthetics are high for this compartment due to the presence of the North Branch of the Cedar River, mixed cover types and rolling topography.

High components of aspen and lowland conifer stands, in conjunction with the above river system, function to attract both hunters and trappers seeking game species commonly associated with the above timber types (deer, grouse, woodcock, bobcat, bear, beaver and otter). This compartment has historically supported Black Bear in densities typically higher than most compartments found within the Gladwin Forest MU. In 2003, nine different bear were observed simultaneously. Wind thrown cedar areas provide den locations for bears and excellent escape cover opportunities for cats and deer.

During severe winters, lowland conifer stands, within this compartment, are actively utilized by wintering deer. Upland aspen stands, in relatively short distances to the yarding areas, provide the essential winter food sources.

Aspen timber management (future proposed sales) will have to be designed in a manner that minimizes the negative impacts of beaver on the Cedar River (designated trout waters). Impoundments, though negative to fish populations and the quality of the river, have produced other opportunities for waterfowl species (mallards and wood ducks). Very large beaver dams exist within this compartment, on the river, that should be removed.

Residual mature Red Oaks, within various aspen age classes, frequently produce mast crops found attractive to turkeys during the spring and fall periods.

Use of the compartment by Pileated Woodpeckers has been witnessed quite frequently.

Overall, this is a very high quality wildlife compartment, relatively free of ORV issues.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 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. Several gravel pits are located in the Compartment and potential is good. This compartment has had sparse exploration for oil and gas. Skeels Field is located one mile to the southwest. It has produced over 1 MBO from the Dundee since 1950. There are no leases in the compartment currently.

Vehicle Access: Access to most of the compartment is good via the county road system and state two tracks that are in place. There are access limitations in sections 16 and 21. State owned lands west of the North Branch Cedar River have limited access; Due to the river and private land to the west.

Survey Needs: A survey of section 21 will be beneficial in setting up the proposed timber sales in that section.

Recreational Facilities and Opportunities: No official facilities. The area receives moderate hunting pressure most of which is deer, grouse and small game hunters. Moderate fishing pressure occurs on the North Branch Cedar River which is a designated trout stream. Moderate dispersed camping occurs mainly during the firearm deer hunting season.

Fire Protection: Low fire occurrence, no fires within the last five years. Good access throughout compartment, no major fire concerns.

Additional Compartment Information:

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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 26

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		92	58	267	383	47													847
Bog or Marsh	35																		35
Cedar										249	16								265
Grass	33																		33
Lowlnd Brush	110																		110
Oak				18	2					23								27	70
Swamp Hrdwds									9	53									62
Upland Brush		4																	4
Upland Hdwds					14					37									51
Water	11																		11
Total	189	96	58	285	399	47			9	362	16							27	1488

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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 26

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	842															5											847
V Bog or Marsh			35																								35
C Cedar				265																							265
G Grass					33																						33
L Lowlnd Brush									110																		110
O Oak														70													70
E Swamp Hrdwds																				62							62
U Upland Brush																4											4
M Upland Hdwds																								51			51
Z Water																									11		11
Total	842		35	265	33				110					70		9				62					51	11	1488

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 26

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	14242 Cds	Hardwood	3176 Cds
Hardwood	557 Mbf	Hardwood	159 Mbf
Softwood	4177 Cds	Sum CutVol	3494 Cds
Softwood	133 Mbf		
Sum TotVol	19799 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	169
1488			

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 26

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
9	A6	63	25	70	aspen (upland)	immature	final harvest	2			
comnts Fmd : Cut after large wildfire in the late 70's. Separated from stand 1. Will harvest this stand to diversify the aspen age class within the compartment. Mange for aspen regeneration.											
12	A6	67	33	68	aspen (upland)	immature	final harvest	2			
comnts Fmd : Separated from stand 21. Will harvest this stand to diversify the aspen age class within the compartment. Manage for aspen regeneration. Leave 100' buffer along river. Leave scattered mature oak, most of this oak is located at the north end of stand along the river. Leaving the oak will add diversity to a large area that is being managed for aspen.											
35	A1	5	7	60	red pine	sparse		0	planting		
comnts Fmd : Clear cut 1998 - very poor regeneration. Trench and plant red pine.											
39	U1	4	7	60	red pine	sparse		0	planting		
comnts Fmd : Clear cut 1998 - very poor regeneration. Trench and plant red pine.											
49	A6	39	46	72	aspen (upland)	two aged	final harvest	1			
comnts Fmd : Two aged aspen stand; the result of a selective clearcut in 1959. Final harvest 2" spec manage for aspen. Save scattered pockets of O5 (red oak) 5" to 7" DBH. Possible to leave some mature oak both individually and/or in small groups.											
Total Acres.....		178									

**Proposed Treatments
With Limiting Factors**

Compartment: 26

Entry Year: 2007

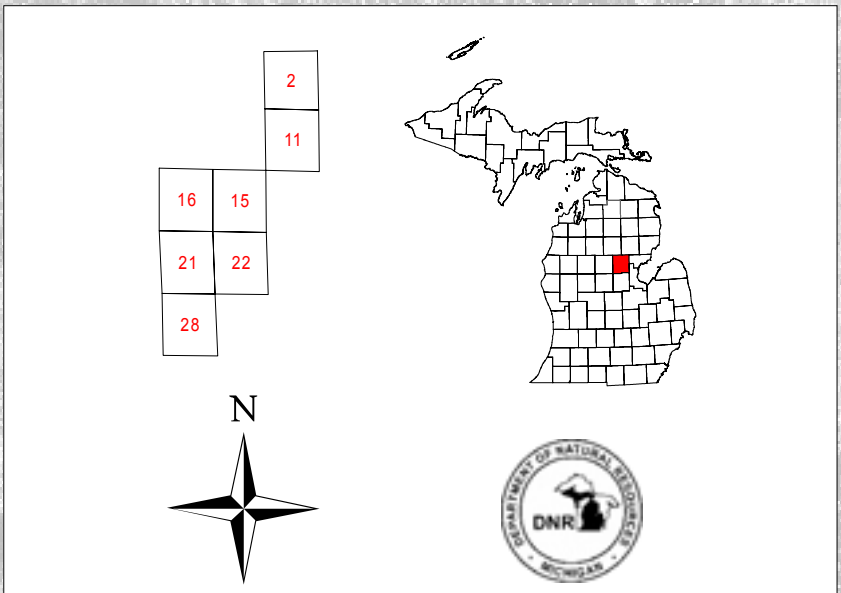
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 26
 T20N, R2W, Sec. 2, 11, 15, 16, 21, 22, 28
 County: Gladwin
 Unit: Gladwin
 YOE: 2007
 Acres: 1,488 GIS Calculated
 Stand Examiner: Tim Gallagher
 Map Revised: 8/19/2005
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
 - Miris Corners
 - - Poor Dirt Roads
 - ⋯ Trail
 - Pipeline
 - Hydrology
 - ▭ Stand Boundary
 - ▨ 016 - Planting
 - ▩ 100 - Final Harvest
 - ▭ County Gravel Roads
 - Name Water Features

