



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 30 ENTRY YEAR: 2007

Compartment Acreage: 1038

County: Gladwin

Revision Date: June 2005, July 27, 2005: August 19, 2005

Stand Examiners: Doug Bates, Tim Gallagher, Steven Nyhoff, and Kelly Standerfer

Legal Description: T 20 N R 01W Sections 13 & 24
T 20 N R 01E Sections 21, 28, & 33

RMU (if applicable): None

Management Goals:

The compartment is not as variable in its stand composition as other compartments. It mostly consists of aspen with some lowland brush areas and lowland hardwoods. The main management activities in the past have been for the aspen type. Aspen stands that were accessible and met the silvicultural criteria to harvest have been done. Some stands of aspen have not been cut in the past due to access issues, but have been slated for this YOE because most are converting over to lowland hardwoods. The conversion to lowland hardwoods type is due to soils in this area. Also, in the compartment there are good pockets of mature cedar mainly in Sections 13 and 24 that will be left for diversity reasons and deer however; the deer density has impeded any cedar regeneration.

Soil and Topography:

The soil type's range from ridges of moderately drained sandy loam soils in Sections 21, 28, and portions of 33; to low poorly drained sandy loam soils in Sections 13, 21, and portions of 33. This is evident in the timber types as well as the locations prior harvest took place. The terrain is slightly rolling with several streams (intermittent and free flowing) flowing from northwest to south east of M-30. The Tittabawasee River passes through the corner of the compartment in Section 33 where there is a greater slope incline. The main soil associations for this compartment are Iosco-Brevort and Hettlinger-Bowers-Iosco.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment contains some isolated parcels of state owned land that are landlocked. These are in Sections 13 and 24 of T20N R01W and Section 21 of T20N R01E. Section 33 is solid state ownership. The compartment is surrounded by private land in Butman Township (T20N R1W) consisting mostly of recreational hunting property. The private land holdings in Clement Township (T20N R1E) are more residential property with the remainder being state owned land of adjacent compartments.

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

There are records of a Wood and Blanding's turtle in the north part of Section 21 along with a Great Blue Heron Rookery to the east, a Bald Eagle nest to the northwest, and Laura's snaketail to the northeast.

Archeological, Historical, and Cultural Features:

There are no known or recorded sites.

Special Management Designations or Considerations:

There are several wetland areas scattered throughout the compartment. These range from cattail marshes, blueberry bogs to lowland brush and hardwoods. Care will be given not to disturb these areas. The Tittabawasee River flows through the southwest corner of Section 33 and exhibits a steep slope from the upland areas and should be avoided with any mechanical activity.

Watershed and Fisheries Considerations:

There are several intermittent and a couple free flowing streams in the compartment. There is an extensive beaver activity taking place in Section 24. The Tittabawasee River is a major warm water stream with fair fishing that deserves protection from any nearby activities.

Wildlife Habitat Considerations:

This compartment is being managed mainly for aspen regeneration and the wildlife that comes with it. Sections 13 and 24 contain a mix of aspen and poor drained soil timber types. The Cedar type coupled with the marsh and lowland brush/hardwood areas provides good habitat for deer, bear, and bobcat. For this reason Wildlife Division does not desire to look into the possibility of disposing/trading these isolate landlocked parcels.

The uniqueness of this compartment parallels the long historical presence/use of this area by Black Bear. This block of public ownership is situated within the middle of a major travel corridor for the above species (movement is east to west across M-30 – generally during the late summer and early fall periods). The public lands west of M-30 have a mix of aspen and lowland conifer cover types. Wind thrown lowland conifer and cedar stands have produced quality habitat (safe areas) for cats and bears. Some stands are difficult to access; however bear hunters frequently bait the perimeters and have been quite successful. For this reason, Wildlife Div. does not desire to liquidate these parcels.

Forested stands adjacent to M-30 and Finkbeinder Road, whenever possible, have been managed to address visual management considerations. White Pine adds to the diversity of many aspen stands within this compartment. Timber sales (A5 – A6 stds.) have regenerated very well within this compartment.

Bald Eagles have frequently been observed throughout this compartment, probably due to the presence of the West Branch of the Tittabawasee River.

Excessive trails and roads are not an issue – nor are ORVs. No maintained wildlife openings or gates exist within Compartment 30.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) clay, silt, sand and gravel. The glacial drift thickness varies between 100 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 15, but potential may be limited. This compartment has had sparse exploration for oil and gas. The mostly abandoned Butman Field, located in Section 13, produced 369,000 BO from the primarily the Richfield since 1949. There are no leases in the compartment currently.

Vehicle Access:

Access to the compartment is limited having only a few two-tracks. The portion of the compartment east of M-30 is bound on one side by M-30 and the other by Cedar Lake Road. There are a few two-tracks that access into this area a short distance for vehicles to park and then the area can be accessed by foot. The 240 acres in Sections 13 and 24 have no vehicle access. The county maintains the Grass lake Road right-of-way that goes about a ¼ of a mile in but ends before reaching state land. There is a small path that ORV can use that travels the remainder of the way, but it is wet. Past harvests have been completed by crossing private property to the north off Sugar River Road. The private property used to access this area of state land also use the two-track on state property to access other parcels of their property. There is no easement on file for this.

Survey Needs: None.

Recreational Facilities and Opportunities:

The compartment is mainly used by hunters, particularly deer and grouse. There are no recreational sites designated but there is a high visual concern from nearby residents, users of the Tittabawasee River, and the high amount of vehicle traffic on M-30 whereby over half of the compartment bounds.

Fire Protection:

The type of timber in the areas poses a moderate amount of fire danger. There is little pine in the compartment to cause a significant problem. The areas access and vast amounts of wet soils would be the biggest concern in wet times for equipment operating and in dry periods for potentially high volume of ground fires. There is private holdings surrounding the area but are not in heavily concentrated subdivisions posing an interface concern.

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: 30

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	593																			4							597	
C Cedar				73																							73	
G Grass					3																						3	
L Lowlnd Brush									71																		71	
N Marsh											71																71	
O Oak														3													3	
R Red Pine																15											15	
F Spruce Fir																				3							3	
E Swamp Hrdwds																					94						94	
U Upland Brush																								2			2	
M Upland Hdwds																										5	5	
Z Water																									13	13		
W White Pine																										88	88	
Total	593			73	3				71		71			3		15			3	98				2		13	93	1038

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 30

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5045 Cds	Hardwood	1303 Cds
Hardwood	373 Mbf	Hardwood	160 Mbf
Softwood	2167 Cds	Softwood	122 Cds
Softwood	351 Mbf	Softwood	50 Mbf
Sum TotVol	8660 Cds	Sum CutVol	1845 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	123
1038			

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 30

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
39	A5	21	60	60	aspen (upland)	mature	removal	1		
<p>comnts Fmd : Big over mature aspen for the most part. Could probably final harvest all species to 2" and regenerate aspen however due to the fact that the aspen is 10-15 years past its prime, the proximity to the main county road, and wetter areas within the stand I recomend an aspen and birch removal along with individual marking of the soft maple to retain 20-30 BA. Cut no pine. In addition cut no balsam fir along the road for visual. Stand is a mixed species stand now, this harvest is targeting a mixture of regeneration as well.</p>										
41	E6	11	71	70	swamp hardwoods	mature	removal	2		
<p>comnts Fmd : Highly variable stand. Some patches of E4 and some is nice aspen. Due to some wet areas within the stand and the close proximity to county roads an Aspen and birch removal as well as an individual tree marking down to 30-40 BA of mixed maple and pine is recommended. Leave all pine, See green sheet for further details.</p>										
43	A6	20	67	65	aspen (upland)	mature	removal	2		
<p>comnts Fmd : Aspen seems to be doing pretty good in thi sarea. Some nice mature and young oak in areas. Soft maple is mainly pulp size and quality. Cut all aspen and birch and thin the remaining species to 50-60BA/AC. Goal for the harvest is mixed oak, maple, pine and aspen. Leave a 50-60 foot no cut buffer along the river(from the top of the drop off). Leave all pine in the stand. The aspen is past its prime and regen may be to patchy for a 2" spec clear cut especially in this highly visible area. Even age management not recommended. Last YOE Notes said "possible old growth" by mike conley.</p>										
47	A6	3	40	70	aspen (upland)	immature	final harvest	1		
<p>comnts Fmd : small area of younger aspen that should be 2" spec clear cut to regenerate aspen. Expand boundaries as much as possible into adjacent timber type to ensure good aspen regeneration.</p>										
139	A5	15	60	60	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : The aspen in the stand is overmature and need to be harvested. The soils in the stand is hummocky with lots of low knolls and wet depression some retaining stand water most of the year. If the stand is clearcut it may not regenerate so cut to 4" and leave a 2 chain buffer along Finkbinder for visual management. The soils under the stand is about 1/2 Bowers Soil and 1/2 Croswell-AuGres.</p>										

Total Acres..... 70

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

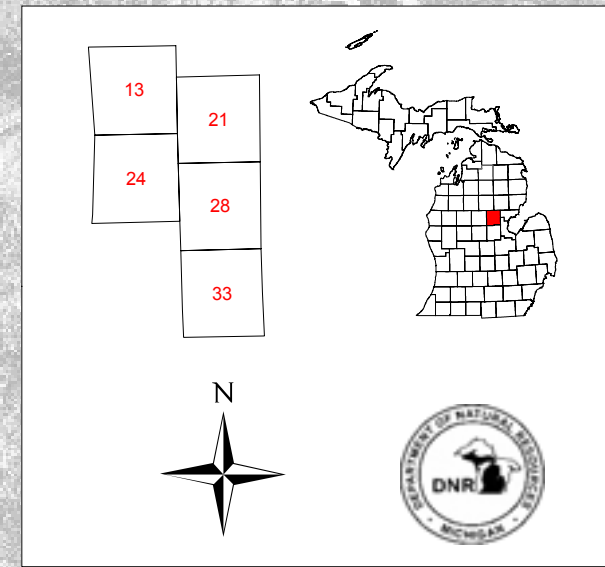
Compartment: 30

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
3	E6	7	81	47	swamp hardwoods	mature	delayed removal	3		
TREATMENT LIMITING FACTORS: Too wet Water quality/bmps										
comnts Fmd : Mostly ash regeneration with some elm and red maple mixed. The elm is only getting to about 8 inches in diameter and dying off. There are also small pockets of cedar here but no cedar regeneration in the understory. There is also an intermittant stream flowing almost through the middle of the stand in a north/south direction. To wet to harvest even in the coldest winter without causing damage to the stream. If a cut every does occur in the future, leave all cedar.										
5	A6	5	62	53	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Stand would benefit from a final harvest to stimulate the aspen regeneration but there is access problems. A wet cedar stand blocks the south and west sides while prive property bounds the north and east.										
11	A5	14	74	60	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Too wet										
comnts Fmd : Extremely wet in spots with lowland brush in the understory. The higher ground has a good mix of balsam fir. Very unlikely this could be harvested even in a very dry/cold period. It is influence by the beaver flooding to the south.										
17	A6	4	64	68	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Similar to Stand 19.										
19	A6	6	67	65	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Decent aspen with the stand being on a slope. The stand was painted in from ten years ago but there is no access. If the stand is cut, I would push into stand 18 as much as possible. Not to late to manage for aspen. If not cut - will convert to a mixed oak/maple stand. Decent oak understory in place. (O2 - 3 inch dbh - 20 ft. tall.)										
22	R9	5	65	70	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Very nice stand of red pine. Not a plantation it is two aged. Big old white pine stumps still intact. Reduce the BA/AC to 120 sq. ft. Individually tree mark trees for removal. Access problems though. This is limited due to "N" type and PVT ownership.										
46	A6	5	67	65	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Decent aspen. All painted in but access is questionable. Stand stand should be out nopw to maintain aspen type. Access limited due to an "N" type and private ownership.										
65	A6	7	67	55	aspen (upland)	immature	final harvest	1		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Very similar to stand 46. However more oak and maple here. Stand is a little more humucky as you move south towards the "N" type. Aspen is poor here. Aspen is dying out here already. Converting to an oak/maple stand. To late to maintain aspen here? Access problems limited to "N" type and private ownership.										
Total Acres.....		53								

Field Map

Compartment 30
 T20N, R1W, Sec. 13, 24
 T20N, R1E, Sec. 21, 28, 33
 County: Gladwin
 Unit: Gladwin
 YOE: 2007
 Acres: 1038 Gis Calculated
 Stand Examiner: Steven Nyhoff,
 Tim Gallagher, Doug Bates
 Map Revised: 8/22/2005
 Map Phase: Pre-review



Legend

- Miris corners
- County gravel roads
- Poor dirt roads
- Closed roads
- Trails
- Gates
- Stand Boundary
- Biodiversity/Old Growth Area
- 100 - Final Harvest
- 400 - Thinning
- 500 - Removal
- 600 - Delayed Removal
- Name** County Paved Roads
- Name** County Gravel Roads
- Name** Water Features

