



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 34 ENTRY YEAR: 2009

Compartment Acreage: 840 County: Gladwin

Revision Date: March 2007

Stand Examiner: Steven Nyhoff

Legal Description: T20N, R2E, Sec. 13-15

RMU (if applicable):

Management Goals:

This compartment has had many harvests in the past 30 years. Many of the stands in the compartment are regeneration stands of aspen and white pine. This is especially true in the stands north of the creek in section 15. The white pines overall are doing well, putting on 1.5 to 2.5 feet of growth a year as long as they are not open grown. The trees in the open are suffering from repeated attacks from white pine weevil.

As for management, continue to manage stands for the current cover types and try to maintain a mix of species. In the white pine stands try to keep the density higher (> 80BA) to promote smaller diameter leader, and discourage white pine weevil attacks. When harvesting stands that are to have some white pine left, leave only the taller poles but remove the advance regeneration to control weevil problems.

The soils in the compartment are well suited for pine. Therefore, if a stand does not regenerate it should be planted or interplanted with red pine or jack pine.

Soil and Topography:

The terrain in the compartment ranges from flat to slightly undulating. The areas of greatest topography relief are along the river corridor. The soils in the compartment range from Loxley Muck and Roscommon assoc. in the poorly drained areas; to Iosco assoc. in the somewhat poorly drained; and Rubicon assoc., Croswell assoc., and Chelsea assoc. in the well drained areas. There is also an area of Evart-Winterfield assoc. along the river corridor.

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

The state ownership is somewhat fragmented being in one larger block in sections 14 and 15 with another 80-acre parcel in section 14, and another 40-acre parcel in section 13. The land is adjoined with compartment 29 to the north and the Lame Duck Foot Access Area (LDFAA) to the south. The private land in the area is mainly used as recreational properties and is in larger ownerships.

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

There are no records in the compartment but there are records of Doll's Merolonche moth to the south east, Bald Eagle to the south, slippershell mussel to the north and Laura's snaketail and Elk toe to the west.

Archeological, Historical, and Cultural Features

No, know location and none found during the inventory process.

Special Management Designations or Considerations:

None, but the compartment is just north of the LDFAA.

Watershed and Fisheries Considerations:

The compartment has large lowland brush and marsh types that feed into a no name creek. The creek flows into La Porte creek then into Tittabawassee River.

Wildlife Habitat Considerations:

This compartment lies immediately north of the LDFAA. One obvious characteristic of this area is the rapid conversion of aspen to pine (particularly White Pine). If early forest successional wildlife species are to be maintained at high levels, the pine components should be controlled through timber sale specifications, which require that all trees be cut down to a 2" diameter measured at a point of four and one-half feet above ground level regardless of merchantability. The implementation of variable retention guidelines should be structured in a clustered configuration as a means of maximizing aspen stem densities.

Another interesting aspect of Compartment 34 is the potential for a "management easement" across private ownership in Section 10 that will provide access to existing land locked public owned lands in Sections 11-12.

Bear and eagles are common residents of this section. Deer, turkeys, grouse, woodcock and cats are wildlife species that are actively pursued within this compartment

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) sand and gravel and fine-textured till. The glacial drift thickness varies between 100 and 200 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 14, and there should be potential. This compartment has had sparse exploration for oil and gas. There are no oil and gas leases in the compartment currently.

Vehicle Access:

Vehicular traffic is confined to the land along the Sugar River Road. Much of the access is restricted by streams and/or lowland.

Survey Needs:

In most of the compartment, there are sufficient corners for timber sale set up. There is no need at the current time for a survey.

Recreational Facilities and Opportunities:

There are no established recreational facilities in the compartment. The compartment is used heavily by hunters and disperse campers.

Fire Protection:

Additional Compartment Information:

Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:

- ◆ **Cover Type by Age Class**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Listing – Forested**
- ◆ **Stand Listing – Non Forested**
- ◆ **Special Conservation Area (SCA) Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- ◆ **Base feature information, stand numbers, cover types**
- ◆ **Proposed treatments**
- ◆ **Proposed road access system**
- ◆ **SCA – Special Conservation Areas**



Stage 1 Acres Summary By Level 3 Cover Type By Age

Compartment: 73034

Date: 10/22/2007

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
Aspen Types	0	51.4	11.3	77.5	0	33.3	0	0	14.6	0	0	0	188.1
Emergent Wetland	75	0	0	0	0	0	0	0	0	0	0	0	75
Herbaceous Openland	4.9	0	0	0	0	0	0	0	0	0	0	0	4.9
Lowland Coniferous Forest	0	0	4.2	5.3	0	0	0	0	0	0	7.8	0	17.3
Lowland Deciduous Forest	0	0	0	0	0	0	0	25	0	0	0	0	25
Lowland Mixed Forest	0	0	0	36	0	0	0	0	0	0	0	0	36
Lowland Shrub	170.4	0	0	0	0	0	0	0	0	0	0	0	170.4
Mixed Upland Deciduous	0	0	0	0	0	0	0	4.4	0	0	0	0	4.4
Natural Pines	0	6.8	15.9	0	15.7	0	55.6	12.4	0	0	0	0	106.4
Northern Hardwood	0	0	0	0	0	0	0	32.7	0	0	0	0	32.7
Other Upland Conifers	0	0	4.8	19.4	0	0	0	0	0	0	0	0	24.2
Other Upland Deciduous	0	0	0	0	0	0	0	3.2	0	0	0	0	3.2
Planted Pines	0	0	0	0	0	19	12.9	0	0	0	0	0	31.9
Upland Mixed Forest	0	0	0	0	0	9.7	9.3	77.2	0	0	0	0	96.2
Water	3.3	0	0	0	0	0	0	0	0	0	0	0	3.3
Grand Total	253.6	58.2	36.2	138.2	15.7	62	77.8	154.9	14.6	0	7.8	0	819

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Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
9 73034009-Cut	33.3	4131 - Aspen, Oak	5	44	0	Clearcut	Regeneration	Aspen, Oak	

Rev Cmnt: To access the stand a creek will need to be crossed so a DEQ permit will be needed. The stand is overmature.

Rev Spec: Final Harvest the stand retain what advance regeneration that does exist as long as it is not white pine. White pine in the area is heavily weeviled if not growing in an understory situation. May leave hardwood < 4" DBH

Next Steps: The stand will need to be checked for regeneration. Because of the age of the stand regeneration may be sparse. If it is not adequate interplant with jack pine.

15 73034015-Cut	14.6	4133 - Aspen, Mixed Pine	8	78	0	Clearcut	Regeneration	Aspen, Mixed Pine	
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Rev Cmnt: Access to the stand is pre-inventory stand 28. Stand has sheet flow but no defined bed or bank. Stand is overmature and need to be harvested

Rev Spec: Final harvest without reserver. Advance regen in the stand is mainly white pine and open grown white pine in this area is heavily weeviled. Also regeneration is questionable so interplanting may be needed.

Next Steps: After harvest evaluate regeneration if not adequate interplant with jack pine.

21 73034021-Cut	27.5	42260 - Natural Pine, Mixed Deciduous	9	56	0	Clearcut with Reserves	Regeneration	Natural Pine, Mixed Deciduous	
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Rev Cmnt: Stand is a mix of pine and hardwood. The hardwood in the stand is mainly aspen with some red maple and black oak. Jack pine is in highest concentration in the south and red pine in the north.

Rev Spec: Final harvest stand reserving some pine <2 trees per acre. The stand will regenerate but it will be sparse so it will need to be interplanted with red pine.

Next Steps: Stand will need to be interplanted with red pine

24 73034024-Cut	9.3	4311 - Pine, Aspen Mix	4	58	75	Clearcut	Regeneration	Pine, Aspen Mix	
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Rev Cmnt: Stand is overmature aspen that needs to be harvested.

Rev Spec: Final harvest 2" spec. The stand is not expected to regenerate naturally.

Next Steps: after harvest plant stand to jack pine.

25 73034025-Cut	16.6	4311 - Pine, Aspen Mix	6	69	0	Clearcut with Reserves	Regeneration	Pine, Aspen Mix	
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Rev Cmnt: Stand is along Alger Road and has 3 camp sited in the stand.

Rev Spec: Final Harvest stand reserving some oak for mast and red and white oak for seed. The white pine regeneration need not be protected because of weevil problem in the area. Stand should regenerate to a mix pine and aspen with some oak.

Next Steps:

44 73034044-Cut	12.9	42110 - Planted Red Pine	6	50	0	Systematic Thinning	Intermediate Cut	Planted Red Pine	
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Rev Cmnt: nice red pine plantation

Rev Spec: Harvest by a third row thinning.

Next Steps:

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Gladwin Mgt. Unit

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

Compartment: 034

Entry Yr: 2009

Inventory Method: IFMAP

Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 2
Total Treatment Acreage Proposed:		114.1							

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Gladwin

Mgt. Unit

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Compartment: 34

Entry Yr: 2009

Inventory Method: IFMAP

Treatment
Name

Acres

Stage1
CovType

Size
Density

1st
Age

2nd
Age

Treatment
Method

Treatment
Purpose

Cover Type
Objective

Pg. 1

Limiting Factor
and Comment:

Rev
Cmnt:

No Stands with Limiting Factors

Rev
Spec:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**



Field Map

Compartment 34
 T20N, R02E, Sec. 13-15
 County: Gladwin
 Unit: Gladwin
 YOE: 2009
 Acres: 819 GIS Calculated
 Stand Examiner: Steve Nyhoff
 Map Revised: 10/02/2007
 Map Phase: Review

Stand # Stocking Density
 23 7
 (A)(412)0 - 7
 OI Level 3
 Code Level 4
 Cover Type Code

15 14 13

46
L622

Legend

- Miris Corners
- Paved Road
- Intermittent Stream/Drain
- Stream
- Stands
- ▨ Clearcut
- ▩ Clearcut with Reserves
- ▧ Systematic Thinning

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

