



## FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

**COMPARTMENT #42 ENTRY YEAR: 2008**

**Compartment Acreage: 2504      County: Gladwin**

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**Revision Date:** May 2006, September 2006

**Stand Examiner:** Steven Nyhoff

**Legal Description:** T20N, R02E, Sections 25, 26, 35, and 36

**RMU (if applicable):**

### **Management Goals:**

This compartment is entirely within the Lame Duck Foot Access Area (LDFAA), which is a High Conservation Value Area (HCVA). It is managed for timber production and wildlife habitat and only foot access is allowed, with the exception of vehicles used for management activities. Because of past management, the compartment is heavy to early successional ecosystems, mainly aspen. Some of the past harvests in the area have failed to regenerate and need to be interplanted with conifers.

Continue to manage for early successional ecosystems where possible. However, in area where the aspen has low vigor and soil conditions allow, convert to mid to late seccessional system of swamp hardwoods, swamp conifer, or oaks. In this year of entry there is opportunity for this.

### **Soil and Topography:**

The topography of the compartment is mainly flat to undulating. Many of the stands have extensive micro-relief or consist of ridges and swales. The main soil types are Iosco-Menominee-Brevort association, Iosco-Au Gres-Ingalls association, and Iosco-Brevort-Ingalls associations. These soil associations are a mix of moderately well drained to very poorly drained soils. Therefore, stands are often a mixture of upland and lowland, leading to significant variability within a stand in composition of species and size of overstory trees.

Other major soil types are Hettinger-Brevort-Burleigh association, Roscommon-Denford association, and Roscommon mucky sand. These soils are in the drainages within the compartment. In addition, there is a large area typed with the Roscommon-Tawas association along the west side of the compartment. This soil association lies under a large hardwood swamp that is mainly black ash, willow, green ash, and red maple. It has extensive micro-relief being hummocks separated by standing water and organic soil.

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

The compartment is in a large area of state ownership with very few private in holdings. Within the compartment, the NE  $\frac{1}{4}$  of section 36 is a split ownership with the state having a 75% interest in the surface.

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

There is a record for an eagle in section 35, Doll's merolonche to the east of the compartment, and during the OI process, a possible Blanding's Turtle was identified in section 25.

### **Archeological, Historical, and Cultural Features**

None recorded or located during the OI process

### **Special Management Designations or Considerations:**

The compartment is part of the LDFAA.

**Watershed and Fisheries Considerations:**

The area is the headwaters of the Molasses River and part of the Molasses River Flooding #1 is located in the southwest corner of the compartment. The control structure of the flooding should be looked at for possible repairs.

**Wildlife Habitat Considerations:****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 sand pit is located in Section 26, and gravel potential may be limited. This compartment has had sparse exploration for oil and gas. The mostly abandoned Adams North Field, located four miles to the southeast in Arenac Co., produced 9.6 MBO from the Dundee Formation since 1940. There are no leases in the compartment currently.

**Vehicle Access:**

Vehicles are restricted to the Lame Duck Truck Trail and designated access sites. See the LDFAA for more detailed description.

**Survey Needs:**

The LDFAA is currently being surveyed extensively. Therefore, no new survey is needed for this compartment.

**Recreational Facilities and Opportunities:**

This compartment is part of an 11,000-acre foot access only area. It is mainly used for disperse recreation; hiking, snowshoeing, cross-country skiing, hunting, berry and mushroom picking.

**Fire Protection:**

Lame Duck area, a lot of foot traffic, hunting pressure, very wet area, potential for high fire danger. Access is limited in Sec. 25 and 35, sec. 26 and 36 some access roads.

The area is heavy to aspen and lacks many of the explosive fuel types. In addition, the area has many natural fuel breaks in the form of wet drainages and swamps. In addition, the use of vehicles is restricted. Therefore, the chance of a fire start is low. However, if one did get started, access would be difficult. In addition, because many of the soil types in the area have inclusion of organic soil, and there are extensive pine stump fields, mop up and control could be difficult.

**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: 42

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        | 1196 |   |    |   |    |   | 108 |   |     |   |     |   |   | 64 |   |   |   |   |   |     |    |   |   |   |    |    | 1368  |
| V Bog or Marsh |      |   | 16 |   |    |   |     |   |     |   |     |   |   |    |   |   |   |   |   |     |    |   |   |   |    |    | 16    |
| G Grass        |      |   |    |   | 14 |   |     |   |     |   |     |   |   |    |   |   |   |   |   |     |    |   |   |   |    |    | 14    |
| J Jack Pine    |      |   |    |   |    |   | 18  |   |     |   |     |   |   |    |   |   |   |   |   |     |    |   |   |   |    |    | 18    |
| L Lowlnd Brush |      |   |    |   |    |   |     |   | 424 |   |     |   |   |    |   |   |   |   |   |     |    |   |   |   |    |    | 424   |
| N Marsh        |      |   |    |   |    |   |     |   |     |   | 142 |   |   |    |   |   |   |   |   |     |    |   |   |   |    |    | 142   |
| O Oak          |      |   |    |   |    |   |     |   |     |   |     |   |   | 3  |   |   |   |   |   |     |    |   |   |   |    |    | 3     |
| B Paper Birch  |      |   |    |   |    |   |     |   |     |   |     |   |   |    | 8 |   |   |   |   |     |    |   |   |   |    |    | 8     |
| E Swamp Hrdwds |      |   |    |   |    |   |     |   |     |   |     |   |   |    |   |   |   |   |   | 417 |    |   |   |   |    |    | 417   |
| T Tamarack     |      |   |    |   |    |   |     |   |     |   |     |   |   |    |   |   |   |   |   |     | 10 |   |   |   |    |    | 10    |
| Z Water        |      |   |    |   |    |   |     |   |     |   |     |   |   |    |   |   |   |   |   |     |    |   |   |   | 55 | 55 |       |
| W White Pine   |      |   |    |   |    |   | 22  |   |     |   |     |   |   |    |   |   |   |   |   |     |    |   |   |   |    | 7  | 29    |
| <b>Total</b>   | 1196 |   | 16 |   | 14 |   | 148 |   | 424 |   | 142 |   |   | 67 | 8 |   |   |   |   | 417 | 10 |   |   |   | 55 | 7  | 2504  |

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: **42**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

| COMPARTMENT SUMMARY     |           |                             |            |
|-------------------------|-----------|-----------------------------|------------|
| TOTAL VOLUME            |           | CUT VOLUME                  |            |
| Hardwood                | 11156 Cds | Hardwood                    | 2641 Cds   |
| Hardwood                | 365 Mbf   | Hardwood                    | 80 Mbf     |
| Softwood                | 264 Cds   | Sum CutVol                  | 2801 Cds   |
| Softwood                | 13 Mbf    |                             |            |
| Sum TotVol              | 12176 Cds |                             |            |
| <b>Total Cmpt Acres</b> |           | Acres Proposed For Cut..... | <b>316</b> |
| 2504                    |           |                             |            |

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 42**

**Entry Year: 2008**

| Stand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cover Type | Acres | Age | Site Index | Mgt Obj         | Condition                        | Method Cut       | Harvest Priority | Cultural Need        | FDF Status |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-----|------------|-----------------|----------------------------------|------------------|------------------|----------------------|------------|
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1         | 66    | 7   | 62         | aspen (upland)  | old growth (potential or actual) |                  | 0                | planting             |            |
| <p>comnts Fmd : This stand may have been harvested later than stand 13. It is poorly stocked with smaller trees. The ground cover is grasses, sweet fern, bracken fern, blackberry, blueberry and poverty grass. It does have a few aspen clones but they are widely scattered. The treatment for the stand is to interplant with some kind of conifer, jack pine would be preferred, but red pine should do well in the stand.</p>                                                                                                                                                  |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A2         | 33    | 7   | 70         | jack pine       | old growth (potential or actual) |                  | 0                | planting             |            |
| <p>comnts Fmd : The stand has not regenerated well. It is now a medium stocked aspen stand mainly because of clones scattered in the stand. These aspen clones are A3 but they are seperated by large G-Types. The terrain is a mix of broad ridges and narrow drainages. The ground cover goes from tag alder in the swales to sweet fern on the ridges but grass is present throughout the stand. The aspen in the stand is mainly trembling aspen and is present around the drainages and lower areas. Look to interplant the upland areas that lack tree cover to jack pine.</p> |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | W1         | 22    | 6   | 62         | jack pine       | old growth (potential or actual) |                  | 0                | planting             |            |
| <p>comnts Fmd : The stand was harvested last YOE and has not regenerated well. The stand has some white pine seedling in it that came in after the harvest. From the whorls they are approximately 6 years old. The stand needs to be regenerated by interplanting of jack pine. Because of the sweet fern there may be problems with sartoga spittle bug. In the southern end of the stand there is some oak that has regenerated, but it is a small area.</p>                                                                                                                      |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1         | 66    | 23  | 55         | jack pine       | old growth (potential or actual) |                  | 0                | planting             |            |
| <p>comnts Fmd : The stand is a system of ridges and swales. The ridges go from A2 to G and the swales go from E2 to L. Overall the stand is variable and averages to an A1. The grassy opening in the stand could be planted to jack pine the problem is locating them to trench and plant. The stand does have a few area that are A3 and E3 and autum olive is also present in the stand.</p>                                                                                                                                                                                      |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | E6         | 26    | 70  | 70         | swamp hardwoods | old growth (potential or actual) | shelterwood-seed | 2                | natural regeneration |            |
| <p>comnts Fmd : The stand is right along the Lame Duck Truck Trail so visual is a concern when the stand is treated. Therefore, harvested the stand by removing the aspen and birch and marking other species to reduce the stand to 80 BA, Concentrate marking on the larger diameter trees and those that need to be removed to facilitate harvest of aspen and birch. The stand should regenerate naturally, if not the stand is still fully stocked.</p>                                                                                                                         |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A6         | 11    | 56  | 60         | aspen (upland)  | old growth (potential or actual) | final harvest    | 1                | natural regeneration |            |
| <p>comnts Fmd : This stand is hummocky but mostly dry. It should regenerated naturally after harvest to a mix of aspen and red maple; any combination of those species would be acceptable. If the stand does not regenerate naturally interplant with jack pine.</p>                                                                                                                                                                                                                                                                                                                |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A5         | 11    | 51  | 48         | aspen (upland)  | old growth (potential or actual) | final harvest    | 1                | natural regeneration |            |
| <p>comnts Fmd : This stand is on a droughty ridge that is currently not producing good aspen. Most of the aspen is of poor form and low soundness. It could be converted to a G-type after harvest. Regeneration is not expected to be adequate after the stand has been cut, leave stand as is to act as an opening for wildlife after harvest. Ground cover sweet fern, raindeer moss, bracken fern, and poverty grass.</p>                                                                                                                                                        |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | E6         | 28    | 56  | 60         | swamp hardwoods | old growth (potential or actual) | selection        | 2                | natural regeneration |            |
| <p>comnts Fmd : The stand is undulating and hummocky. There are areas that are dry and heavy to aspen and birch and other areas that are low and heavy to red maple. Aspen in the stand appears to have low vigor and may not regenerate if clearcut. Harvest by removing the aspen, birch and leaving other species. Some marking may need to be done in the low areas to facilitate logging of the aspen. This stand is part of a 160 acres that the state has a 75% interest in the surface. The soils in the stand are split between Iosco and AuGres.</p>                       |            |       |     |            |                 |                                  |                  |                  |                      |            |
| 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A6         | 107   | 51  | 60         | aspen (upland)  | old growth (potential or actual) | final harvest    | 2                | natural regeneration |            |
| <p>comnts Fmd : The stand has a pocket of lowland brush just east of stand 40. The stand is mainly trembling aspen with pockets of balsam popular and bigtooth aspen. In the opening the stand is seeding in with balsam popular and trembling aspen.</p>                                                                                                                                                                                                                                                                                                                            |            |       |     |            |                 |                                  |                  |                  |                      |            |

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 42**

**Entry Year: 2008**

| Stand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cover Type | Acres      | Age | Site Index | Mgt Obj         | Condition                        | Method Cut    | Harvest Priority | Cultural Need        | FDF Status |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-----|------------|-----------------|----------------------------------|---------------|------------------|----------------------|------------|
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A5         | 4          | 74  | 50         | aspen (upland)  | old growth (potential or actual) | final harvest | 2                |                      |            |
| comnts Fmd : The stand goes from well stocked to non-stocked, but averaging a medium stock stand of poles. It could be harvested but it is sparse and of low quality with difficult access.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |            |     |            |                 |                                  |               |                  |                      |            |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E6         | 62         | 79  | 68         | swamp hardwoods | old growth (potential or actual) | selection     | 2                | natural regeneration |            |
| comnts Fmd : The stand is variable and has areas of G-types and areas of A6 and E6. The ground cover changes from grass to bracken fern to blueberry. Harvest the stand by removing the aspen. This type of cut will clearcut the ridges and leave the low wet ground virtually untouched. The aspen in the stand is at rotation age but has a low site index (48). The stand should be converted to oak/pine on the ridges and the low wet areas should be swamp hardwoods. If the ridges do not regenerate well interplant with red pine or jack pine, red pine would be preferred.                                                                                                                            |            |            |     |            |                 |                                  |               |                  |                      |            |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E6         | 41         | 72  | 60         | swamp hardwoods | old growth (potential or actual) | selection     | 2                | natural regeneration |            |
| comnts Fmd : The stand is a mix of aspen and birch ridges with red maple in the lowland. It should be harvested by the removal of aspen and birch converting the stand to swamp hardwood. If the stand was clearcut it will probably not regenerate well because the aspen and birch has low vigor. As it is the harvest will cut the ridges leaving < 20 BA and in the lower ground the BA > 80. The state has a 75% interest in the surface.                                                                                                                                                                                                                                                                   |            |            |     |            |                 |                                  |               |                  |                      |            |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A5         | 15         | 64  | 60         | aspen (upland)  | old growth (potential or actual) | final harvest | 2                | natural regeneration |            |
| comnts Fmd : The stand is poor and access to it is difficult; the ground is hummocky and is a mix of dry knoll and wet swales. There are areas in the stand that have inclusion of lowland brush.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |            |     |            |                 |                                  |               |                  |                      |            |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A1         | 9          | 7   | 46         | jack pine       | old growth (potential or actual) |               | 0                | planting             |            |
| comnts Fmd : The stand was cut and has regenerated poorly. The stand is a knoll that appears to be droughty with the ground cover of poverty grass, raindeer moss, and sweet fern. Overall it is poorly stocked and needs to be interplanted to jack pine.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |            |     |            |                 |                                  |               |                  |                      |            |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A6         | 7          | 61  | 65         | aspen (upland)  | old growth (potential or actual) | final harvest | 1                | natural regeneration |            |
| comnts Fmd : This stand is and area of mature aspen and red maple mixed. Harvest but clearcutting leaving all oak. The aspen vigor in the stand is low and it may not regenerate well, if not interplant jack pine. The access to the stand is through compartment 126. There is a two-track that come in 1/2 way from the connector loop then ends at a drainage, but after the drainage is crossed it is dry all the way to the stand. This trail passes through the stand that is schedule to be harvest in comp 126. The stand thins out heading south and grades into stand 87. So the actual boundary of the stand is a subjective call.                                                                   |            |            |     |            |                 |                                  |               |                  |                      |            |
| 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A6         | 4          | 61  | 65         | aspen (upland)  | old growth (potential or actual) | final harvest | 1                | natural regeneration |            |
| comnts Fmd : This stand is and area of mature aspen and red maple mixed. Harvest but clearcutting leaving all oak. The aspen vigor in the stand is low and it may not regenerate well, if not interplant jack pine. The access to the stand is through compartment 126. There is a two-track that come in 1/2 way from the connector loop then ends at a drainage, but after the drainage is crossed it is dry all the way to the stand. This trail passes through stand that are schedule to be harvest in comp 126. This stand has a split intrest with the state having a 75% intrest. Take into green up restriction when setting up sale because of harves in compartment 126 and stand 96 south the stand. |            |            |     |            |                 |                                  |               |                  |                      |            |
| 403                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | G0         | 3          |     | 69         | grass           | old growth (potential or actual) |               | 0                | opening maintenance  |            |
| comnts Fmd : This stand is a wildlife planted opening to a pasture mix of grasses. The planting is well established and there is very little bear ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |            |     |            |                 |                                  |               |                  |                      |            |
| <b>Total Acres.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | <b>515</b> |     |            |                 |                                  |               |                  |                      |            |

**Proposed Treatments  
With Limiting Factors**

**Compartment: 42**

**Entry Year: 2008**

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| <b>Stand</b> | <b>Cover<br/>Type</b> | <b>Acres</b> | <b>Age</b> | <b>Site<br/>Index</b> | <b>Mgt<br/>Obj</b> | <b>Condition</b> | <b>Method<br/>Cut</b> | <b>Harvest<br/>Priority</b> | <b>Cultural<br/>Need</b> | <b>FDF<br/>Status</b> |
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|-----------------------|
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|-----------------------|

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TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 42  
 T20N, R02E, Sec. 25, 26, 35, 36  
 County: Gladwin  
 Unit: Gladwin  
 YOE: 2008  
 Acres: 2,504 GIS Calculated  
 Stand Examiner: Steven Nyhoff  
 Map Revised: 10/26/2006  
 Map Phase: Pre-review

## Legend

- Miris Corners
- - - County Gravel Roads
- ⋯ Closed Roads
- ✕ Berms
- ✕ Gates
- ▭ Stand Boundary
- VV 016 - Planting
- VV 026 - Opening Maintenance
- 100 - Final Harvest
- 148 - Final Harvest/Natural Regeneration/Other
- 348 - Shelterwood-seed/Natural Regeneration/Other
- 848 - Selection/Natural Regeneration/Other

