



**FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 63    ENTRY YEAR: 2007**

**Compartment Acreage: 1279            County: Gladwin**

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**Revision Date:**        January 2005: June 2005: July 8, 2005: August 8, 2005

**Stand Examiner:**     Steven Nyhoff

**Legal Description:** T18N R1E Sections 2, 11  
                                 T19N R1E Section 35

**RMU (if applicable):**        None

**Management Goals:**

This compartment has had the Aspen Type extensively harvested during the last 30 years. Currently it is heavy to early secessional species; mainly aspen and oak. The oak in the compartment is mainly red and northern pin oak and many of the stands throughout the compartment have an oak component. In addition, there are areas of swamp hardwoods located along the river and creek and their associated flood plains. Along many of the drainages there is beaver activity that established areas of swamp brush and standing water in these corridors.

Continue to manage the compartment for oak and aspen while looking for opportunities to increase the biodiversity. In addition, the compartment has a substantial deer population. There are many game trails evident and many of the oak trees show signs of deer foraging under them.

**Soil and Topography:**

The topography in the compartment is generally flat with some relief near Black Creek, Fish Creek, and their tributaries. These flood plains are bordered by steep banks that have many springs and seeps in them making the flood plains wet most of the year. Also the soil under the flood plains have seasonal high water tables much of the year. They also have a fair amount of organic in them that can retard their freezing during winter months.

The main soils in the compartment are Chelsea associations which are found under the well drained forest types. These soils have a minor component of Rubicon. Croswell association is found under the moderately drained forest types. This soil has minor components of AuGres and Roscommon. The Roscommon association is found in the poorly drained forest types and lowland brush types. Lastly, the main soil under the flood plains along the creeks is Evert-Winterfield association.

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

The state ownership is mainly in one contiguous block with interspersed private ownership. Most of the private parcels are along M-61. The compartment is surrounded by other compartments on all sides and is bordered by M-61 on the south side and Three Rivers Road on the east side. Most of the private ownerships in the area are used for permanent residences and/or recreational properties.

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

No known occurrences and none were detected during the operation inventory process. There are records of an Eagle to the northwest of the compartment.

**Archeological, Historical, and Cultural Features**

No known occurrences and none were detected during the operation inventory process.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

The compartment has two creeks in it; Black Creek and Fish Creek. These creeks are sand bottom creeks with very little gravel substrate. The fishery considerations for the compartment and the proposed treatments are minimal.

**Wildlife Habitat Considerations:**

Compartment 63 contains cover types heavy to the early forest successional stages (aspen and oak). It also has large components of wetlands, lowland brush, and leather leaf bogs. There are also areas of wet timber types: swamp hardwood and lowland aspen sites. Management objectives will attempt to maintain the current cover types and where possible increase species diversity – especially along the swamp edges (expand the hemlock, cedar and other softwoods).

This compartment is heavily utilized by squirrel, turkey, deer and grouse hunters. Poor mast crops, from the fall of 2004, were not consumed by existing wildlife populations, have now established a mat of new oak seedlings within mature O8 stands. This supports other major land indices that deer numbers have declined throughout east Gladwin County.

ORV issues were previously more severe than the present situation, as control efforts have allowed recovery opportunities to occur.

Hunter/vehicle parking space has always been lacking in this compartment. Recently FM2 and Wildlife Div. have established an agreement with the GCRC which will result in the development of two large parking areas – eliminating this concern.

**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. This area is predominantly sand, and gravel potential in the compartment is considered limited. This area has had little oil and gas activity. North Buckeye Field is located one mile to the west. The field, discovered in 1936, has produced over 21 MBO from the Devonian Dundee Formation. There are no current State oil and gas leases in the compartment.

**Vehicle Access:**

The vehicular access in the compartment is good for the most part and much of the compartment is accessible from either Three Rivers Road or M-61.

**Survey Needs:**

None needed at the current time.

**Recreational Facilities and Opportunities:**

The compartment has good access and is heavily used for hunting. Also, in the northeastern corner of the compartment, is the Midland to Mackinac Boy Scout Trail.

**Fire Protection:**

The compartment has some history of fires, especially along Three Rivers Road. The area has some variability and there are numerous natural fuel breaks. The cover types in the compartment are, for the most part, lower flammability. For the most part the compartment has good access so fire protection is not a major 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: 63

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        |            | 18        | 127        | 145        | 58        | 10        | 15        | 16        |           |       |       |         |         |         |         |         |         |            | 389         |
| LowInd Brush | 271        |           |            |            |           |           |           |           |           |       |       |         |         |         |         |         |         |            | 271         |
| LowInd Poplr |            |           |            |            |           | 17        |           | 9         |           |       |       |         |         |         |         |         |         |            | 26          |
| Oak          |            | 56        | 44         | 20         |           | 13        | 11        | 39        | 18        |       |       |         |         |         |         |         |         | 63         | 264         |
| Red Pine     |            |           |            |            |           | 28        |           |           |           |       |       |         |         |         |         |         |         |            | 28          |
| Swamp Hrdwds |            | 15        |            |            |           |           | 46        | 26        | 13        |       |       |         |         |         |         |         |         | 188        | 288         |
| Water        | 13         |           |            |            |           |           |           |           |           |       |       |         |         |         |         |         |         |            | 13          |
| <b>Total</b> | <b>284</b> | <b>89</b> | <b>171</b> | <b>165</b> | <b>58</b> | <b>68</b> | <b>72</b> | <b>90</b> | <b>31</b> |       |       |         |         |         |         |         |         | <b>251</b> | <b>1279</b> |

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AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 63

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        | 389 |   |   |   |   |   |   |   |     |    |   |   |   |     |   |    |   |   |   |     |   |   |   |   |    |      | 389   |
| L LowInd Brush |     |   |   |   |   |   |   |   | 271 |    |   |   |   |     |   |    |   |   |   |     |   |   |   |   |    |      | 271   |
| P LowInd Poplr |     |   |   |   |   |   |   |   |     | 26 |   |   |   |     |   |    |   |   |   |     |   |   |   |   |    |      | 26    |
| O Oak          |     |   |   |   |   |   | 9 |   |     |    |   |   |   | 255 |   |    |   |   |   |     |   |   |   |   |    |      | 264   |
| R Red Pine     |     |   |   |   |   |   |   |   |     |    |   |   |   |     |   | 28 |   |   |   |     |   |   |   |   |    |      | 28    |
| E Swamp Hrdwds |     |   |   |   |   |   |   |   |     |    |   |   |   |     |   |    |   |   |   | 288 |   |   |   |   |    |      | 288   |
| Z Water        |     |   |   |   |   |   |   |   |     |    |   |   |   |     |   |    |   |   |   |     |   |   |   |   | 13 | 13   |       |
| Total          | 389 |   |   |   |   |   | 9 |   | 271 | 26 |   |   |   | 255 |   | 28 |   |   |   | 288 |   |   |   |   | 13 | 1279 |       |

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: **63**

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

| COMPARTMENT SUMMARY     |          |                             |          |
|-------------------------|----------|-----------------------------|----------|
| TOTAL VOLUME            |          | CUT VOLUME                  |          |
| Hardwood                | 5430 Cds | Hardwood                    | 750 Cds  |
| Hardwood                | 852 Mbf  | Hardwood                    | 167 Mbf  |
| Softwood                | 626 Cds  | Softwood                    | 180 Cds  |
| Softwood                | 92 Mbf   | Sum CutVol                  | 1264 Cds |
| Sum TotVol              | 7944 Cds |                             |          |
| <b>Total Cmpt Acres</b> |          | Acres Proposed For Cut..... | 148      |
| 1279                    |          |                             |          |

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 63**

**Entry Year: 2007**

| Stand  | Cover Type | Acres | Age | Site Index | Mgt Obj         | Condition  | Method Cut       | Harvest Priority | Cultural Need              | FDF Status |
|--|------------|-------|-----|------------|-----------------|------------|------------------|------------------|----------------------------|------------|
| <b>2</b>   | <b>E6</b>  | 46    | 50  | 65         | swamp hardwoods | immature   | seed tree        | 2                | natural regeneration       |            |
| <p>comnts Fmd : This stand is undulating and is a mix of dry knolls and wet swales. The ground cover in the stand varies with braken fern and grass on the knolls; and braken fern and blueberry in the swales. Harvest the stand as a seed tree, removing all species except oak. Then mark some oak trees to maintain 10-30 BA. Note: The stand does have some wet drainways that will need to be crossed when it is harvested. Also mark all obvious den trees and retain all dead standing and dead down for snags and horizontal structure. It is expected that the stand will regenerate as a swamp hardwood mixed with oak but oak may become the dominate spieces and that will be acceptable.</p> |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>6</b>   | <b>R6</b>  | 15    | 44  | 65         | red pine        | immature   | thinning         | 1                |                            |            |
| <p>comnts Fmd : The stand is ready to be thinned. The rows are curvy but the spacing between rows is fairly good. There are 2-track part way through the stand that could be used for access. On one of these trails is an oak knoll that could be clear cut and used for a landing. Harvest the stand as a 3rd row thinning removing as much of the hardwood as possible without damage the residual too much, leave all white pine except what is within the cut rows.</p>   |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>12</b>  | <b>O9</b>  | 52    |     | 60         | oak             | unevenaged | shelterwood-seed | 2                | natural regeneration       |            |
| <p>comnts Fmd : Part of Three River Oak 030-97-01. This stand was shelterwood harvested in 2001 and now has a good layer of oak regeneration. The stand is ready to be harvested as a seed tree harvest leaving 10 to 20 BA. Concentrate most of the removal on the high risk trees. Mark from remain tress to provide a mix of mast trees and trees of better form to provide some good genetics for seed source. Leave all standing dead and dead down trees for snags and horizontal structure.</p>   |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>34</b>  | <b>A1</b>  | 4     | 7   | 65         | aspen (upland)  | sparse     |                  | 0                | other - specify in remarks |            |
| <p>comnts Fmd : The stand was harvested and did not regenerate well. It is a small stand and it appears to have only 3-6 aspen clones in the stand with some widely scattered oak and red maple. The stand may need to be planted to red pine or convert it to a maintained wildlife opening.</p>  |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>35</b>  | <b>O4</b>  | 9     | 7   | 60         | jack pine       | sparse     |                  | 0                | planting                   |            |
| <p>comnts Fmd : This stand was harvested leaving some of the smaller oak and it has not regenerating well. Currently it is an O4 with large area of open grass. The stand need to be interplanted, with jack pine because of wet soils, to bring it to full stocking.</p>  |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>105</b>   | <b>O4</b>  | 11    | 50  | 50         | oak             | sparse     | final harvest    | 1                | natural regeneration       |            |
| <p>comnts Fmd : This stand is a mix of knolls and swales. The knolls are more of an O4 while the swales are more of and L-Type. May want to cut this stand with stand 2 if not, habitat cut. If the stand is cut it would be expected that the regeneration would be spotted if nessary interplant with jack pine to bring up to full stocking.</p>  |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>115</b>   | <b>O9</b>  | 11    |     | 70         | oak             | unevenaged | shelterwood-seed | 1                | natural regeneration       |            |
| <p>comnts Fmd : This stand has regenerated well to oak and white pine. The oak is the main overstory tree. Also in the stand there are pockets of aspen, which are way overmature and will not regenerate well if harvested. The stand is to be converted to oak. Treat it by doing a seed tree harvest removing all maple, aspen and mark oak down to 10-30 BA, concentrating harvesting sawlogs leaving healty trees for seed trees and healthy poles. Because all the maple and aspen are to be removed there may be area that may be very sparse this is will be acceptable.</p>   |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>117</b>   | <b>R6</b>  | 4     | 44  | 55         | red pine        | immature   | delayed removal  | 2                |                            |            |
| <p>comnts Fmd : The stand needs to have the overstory removed to release the red pine.</p>   |            |       |     |            |                 |            |                  |                  |                            |            |

**Total Acres..... 152**

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 63**

**Entry Year: 2007**

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj   | Condition | Method Cut    | Harvest Priority | Cultural Need | fdf Status |
|-------|------------|-------|-----|------------|---|-----------|---------------|------------------|---------------|------------|
| 101   | P5         | 9     | 61  | 50         | balsam poplar & swamp aspen and swamp white birch | immature  | final harvest | 3                |               |            |

TREATMENT LIMITING FACTORS: Too wet

comnts Fmd : This stand is low and wet and is mainly trembling aspen, ash and some red maple. Along the west side of the stand there is a ridge of some mature oak and ash but it is unaccessible for this compartment some parts of the ridges may be accessible from compartment to the north and if possible harvest with them. The harvest of the ridges should be by clearcut.

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**Total Acres..... 9**



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|--------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|-------|-------|---------|---------|---------|---------|---------|---------|------------|-------------|
| Aspen        |            | 18        | 127        | 145        | 58        | 10        | 15        | 16        |           |       |       |         |         |         |         |         |         |            | 389         |
| LowInd Brush | 271        |           |            |            |           |           |           |           |           |       |       |         |         |         |         |         |         |            | 271         |
| LowInd Poplr |            |           |            |            |           | 17        |           | 9         |           |       |       |         |         |         |         |         |         |            | 26          |
| Oak          |            | 56        | 44         | 20         |           | 13        | 11        | 39        | 18        |       |       |         |         |         |         |         |         | 63         | 264         |
| Red Pine     |            |           |            |            |           | 28        |           |           |           |       |       |         |         |         |         |         |         |            | 28          |
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GLADWIN COUNTY

COMPARTMENT: 63

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 |
|----------------|-----|---|---|---|---|---|---|---|-----|----|---|---|---|-----|---|----|---|---|---|-----|---|---|---|---|----|------|-------|
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| L LowInd Brush |     |   |   |   |   |   |   |   | 271 |    |   |   |   |     |   |    |   |   |   |     |   |   |   |   |    |      | 271   |
| P LowInd Poplr |     |   |   |   |   |   |   |   |     | 26 |   |   |   |     |   |    |   |   |   |     |   |   |   |   |    |      | 26    |
| O Oak          |     |   |   |   |   |   | 9 |   |     |    |   |   |   | 255 |   |    |   |   |   |     |   |   |   |   |    |      | 264   |
| R Red Pine     |     |   |   |   |   |   |   |   |     |    |   |   |   |     |   | 28 |   |   |   |     |   |   |   |   |    |      | 28    |
| E Swamp Hrdwds |     |   |   |   |   |   |   |   |     |    |   |   |   |     |   |    |   |   |   | 288 |   |   |   |   |    |      | 288   |
| Z Water        |     |   |   |   |   |   |   |   |     |    |   |   |   |     |   |    |   |   |   |     |   |   |   |   | 13 | 13   |       |
| Total          | 389 |   |   |   |   |   | 9 |   | 271 | 26 |   |   |   | 255 |   | 28 |   |   |   | 288 |   |   |   |   | 13 | 1279 |       |

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| Sum TotVol              | 7944 Cds |                             |          |
| <b>Total Cmpt Acres</b> |          | Acres Proposed For Cut..... |          |
| 1279                    |          | 148                         |          |

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 63**

**Entry Year: 2007**

| Stand  | Cover Type | Acres | Age | Site Index | Mgt Obj         | Condition  | Method Cut       | Harvest Priority | Cultural Need              | FDF Status |
|--|------------|-------|-----|------------|-----------------|------------|------------------|------------------|----------------------------|------------|
| <b>2</b>   | <b>E6</b>  | 46    | 50  | 65         | swamp hardwoods | immature   | seed tree        | 2                | natural regeneration       |            |
| <p>comnts Fmd : This stand is undulating and is a mix of dry knolls and wet swales. The ground cover in the stand varies with braken fern and grass on the knolls; and braken fern and blueberry in the swales. Harvest the stand as a seed tree, removing all species except oak. Then mark some oak trees to maintain 10-30 BA. Note: The stand does have some wet drainways that will need to be crossed when it is harvested. Also mark all obvious den trees and retain all dead standing and dead down for snags and horizontal structure. It is expected that the stand will regenerate as a swamp hardwood mixed with oak but oak may become the dominate spieces and that will be acceptable.</p> |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>6</b>   | <b>R6</b>  | 15    | 44  | 65         | red pine        | immature   | thinning         | 1                |                            |            |
| <p>comnts Fmd : The stand is ready to be thinned. The rows are curvy but the spacing between rows is fairly good. There are 2-track part way through the stand that could be used for access. On one of these trails is an oak knoll that could be clear cut and used for a landing. Harvest the stand as a 3rd row thinning removing as much of the hardwood as possible without damage the residual too much, leave all white pine except what is within the cut rows.</p>   |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>12</b>  | <b>O9</b>  | 52    |     | 60         | oak             | unevenaged | shelterwood-seed | 2                | natural regeneration       |            |
| <p>comnts Fmd : Part of Three River Oak 030-97-01. This stand was shelterwood harvested in 2001 and now has a good layer of oak regeneration. The stand is ready to be harvested as a seed tree harvest leaving 10 to 20 BA. Concentrate most of the removal on the high risk trees. Mark from remain tress to provide a mix of mast trees and trees of better form to provide some good genetics for seed source. Leave all standing dead and dead down trees for snags and horizontal structure.</p>   |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>34</b>  | <b>A1</b>  | 4     | 7   | 65         | aspen (upland)  | sparse     |                  | 0                | other - specify in remarks |            |
| <p>comnts Fmd : The stand was harvested and did not regenerate well. It is a small stand and it appears to have only 3-6 aspen clones in the stand with some widely scattered oak and red maple. The stand may need to be planted to red pine or convert it to a maintained wildlife opening.</p>  |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>35</b>  | <b>O4</b>  | 9     | 7   | 60         | jack pine       | sparse     |                  | 0                | planting                   |            |
| <p>comnts Fmd : This stand was harvested leaving some of the smaller oak and it has not regenerating well. Currently it is an O4 with large area of open grass. The stand need to be interplanted, with jack pine because of wet soils, to bring it to full stocking.</p>  |            |       |     |            |                 |            |                  |                  |                            |            |
| <b>105</b>   | <b>O4</b>  | 11    | 50  | 50         | oak             | sparse     | final harvest    | 1                | natural regeneration       |            |
| <p>comnts Fmd : This stand is a mix of knolls and swales. The knolls are more of an O4 while the swales are more of and L-Type. May want to cut this stand with stand 2 if not, habitat cut. If the stand is cut it would be expected that the regeneration would be spotted if nessary interplant with jack pine to bring up to full stocking.</p>  |            |       |     |            |                 |            |                  |                  |                            |            |
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| <b>117</b>   | <b>R6</b>  | 4     | 44  | 55         | red pine        | immature   | delayed removal  | 2                |                            |            |
| <p>comnts Fmd : The stand needs to have the overstory removed to release the red pine.</p>   |            |       |     |            |                 |            |                  |                  |                            |            |

**Total Acres..... 152**

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 63**

**Entry Year: 2007**

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj   | Condition | Method Cut    | Harvest Priority | Cultural Need | FDF Status |
|-------|------------|-------|-----|------------|---|-----------|---------------|------------------|---------------|------------|
| 101   | P5         | 9     | 61  | 50         | balsam poplar & swamp aspen and swamp white birch | immature  | final harvest | 3                |               |            |

TREATMENT LIMITING FACTORS: Too wet

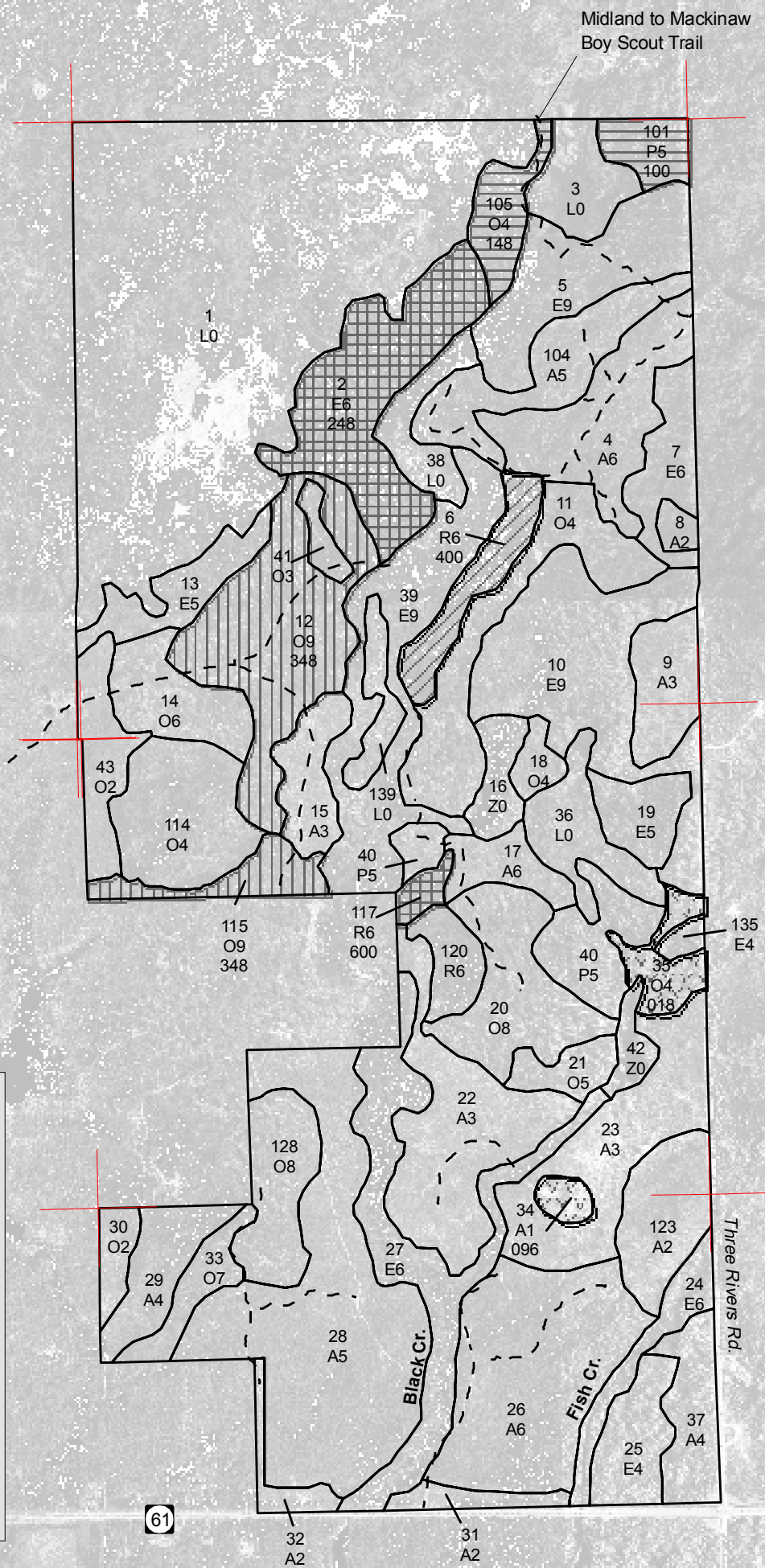
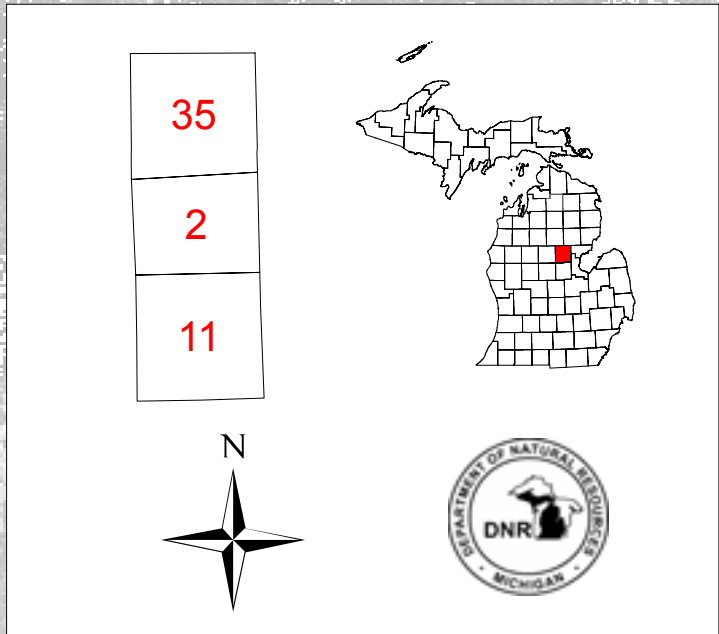
comnts Fmd : This stand is low and wet and is mainly trembling aspen, ash and some red maple. Along the west side of the stand there is a ridge of some mature oak and ash but it is unaccessible for this compartment some parts of the ridges may be accessible from compartment to the north and if possible harvest with them. The harvest of the ridges should be by clearcut.

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**Total Acres..... 9**

# Field Map

Compartment 63  
 T18N, R1E, Sec. 2, 11  
 T19N, R1E, Sec. 35  
 County: Gladwin  
 Unit: Gladwin  
 YOE: 2007  
 Acres: 1,279 GIS Calculated  
 Stand Examiner: Steven Nyhoff  
 Map Revised: 8/22/2005  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- - - Poor Dirt Roads
- State Highway
- Stand Boundary
- ▨ 018 - Planting/Other
- ▩ 096 - Other
- ▧ 100 - Final Harvest
- ▦ 148 - Final Harvest/Natural Regeneration/Other
- ▥ 248 - Seed-tree/Natural Regeneration/Other
- ▤ 348 - Shelterwood-seed/Natural Regeneration/Other
- ▣ 400 - Thinning
- ▢ 600 - Delayed Removal

Name Poor Dirt Roads  
 Name Gravel Roads  
 Name Water Features

