



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 75 ENTRY YEAR: 2007

Compartment Acreage: 1530 County: Schoolcraft

Revision Date: 9/15/2004

Stand Examiner: Adam Petrelius

Legal Description: T42N R15W Sections 6, 7, 8

RMU (if applicable):

Management Goals: The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and Topography: The topography in this compartment is mostly flat, and elevations generally decrease towards the southern boundaries of the compartment. Soils in the northern portions of the compartment support mixed pine/aspens/oak stands, northern hardwoods, and some large grass openings. The southern portions of the compartment include lowland conifer species such as cedar and black spruce. The major soil types found within the compartment, in order of abundance, are Rubicon Sand, McMillan-Stutts Complex, McMillan-Greylock Complex, and Rubicon-Croswell-Deford Complex. The major habitat types with the compartment, in order of abundance, are PARV, AFPO, and PVE. The majority of this compartment lies within the Hiawatha Moraine Land Type Association (LTA) which is located in the northern half of the compartment. The other LTA found within the compartment is the Mint Farm LTA.

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

State land within this compartment was acquired between 1926 and 1943, and was either purchased or tax reverted. The entire northern boundary of the compartment borders state land. Approximately 1/4 of the west and south boundaries are adjacent to state land as well. Approximately 3/4 of the eastern compartment boundary is adjacent to state land. Adjacent private ownership along the compartment boundary includes 6 different parcels, and 3 camps are known to exist adjacent to this compartment.

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

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations: Most stands in this compartment are located within the deeryard, and are classified as a Special Conservation Area.

Watershed and Fisheries Considerations: None.

Wildlife Habitat Considerations: This compartment sets just north of the Sturgeon Hole deer yard and includes a portion of the High Rollways opening complex. The original surveyor's notes indicate that the

pre-settlement land cover consisted primarily of hemlock and white pine. Red pine, beech, white birch, and sugar maple were also common components of the forest. Current vegetation is substantially different from pre-settlement conditions. Grassy openings now constitute about 1/3rd of the compartment. Red pine plantation, aspen, and oak have also expanded substantially from the 1850s. Wildlife habitat objectives consist primarily of maintaining the grassy openings for deer breaking out of the winter yards, promoting oak as a high source of protein for a wide variety of wildlife life, and protecting the closed canopy conifer forests.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Manitoulin Dolomite and Cabothead Shale subcrop below the glacial drift. The Manitoulin could be used for stone. Gravel pits are not located in the area, but there may be some potential. There is no commercial oil and gas production in the UP, but a new location was staked three miles to the southwest.

Vehicle Access: The Low High Rollways Road is classified as an unimproved County Road, and travels throughout the majority of the compartment. There is good vehicle access throughout the entire compartment, and almost every location in the compartment is within ¼ mile of a forest road that can be driven by a 2-wheel drive vehicle.

Survey Needs: None needed.

Recreational Facilities and Opportunities: There are no recreational facilities within this compartment. A snowmobile trail travels east/west throughout the northern portion of the compartment. In prior years the Low High Rollways Road has been plowed during the winter months. This creates ice fishing opportunities on the Manistique River. Numerous late season bow hunters have also taken advantage of the plowed road.

Fire Protection: Response time to fires within this compartment will be fast. A well established road system will make fire operations easier within the compartment. This compartment has no water source, however the Manistique River is within ¼ mile of the southern compartment boundary. This compartment and adjacent compartments are almost entirely upland with surface fuels consisting of primarily grass and pine litter. In the spring of 2000 a prescribed burn was used to maintain approximately 340 acres of grass openings.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **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**
 - ◆ **Suggested potential old growth**

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 75

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 | | 39 | 76 | 10 | 6 | 55 | | 45 | 16 | | | | | | | | | | 247 |
| Cedar | | | | | | | | | 126 | | | | | | | | | | 126 |
| Grass | 346 | | | | | | | | | | | | | | | | | | 346 |
| Jack Pine | | | 96 | | 100 | 17 | | | | | | | | | | | | | 213 |
| Non Stocked | 16 | | | | | | | | | | | | | | | | | | 16 |
| Oak | | | | | | | | | 57 | | | | | | | | | | 57 |
| Red Pine | | | | | 44 | 30 | 165 | | | | 34 | | | | | | | 31 | 304 |
| Spruce Fir | | 11 | | | | 15 | | | | | | | | | | | | | 26 |
| Upland Hdwds | | | | | | | | | | 17 | | | | | | | | 115 | 132 |
| White Pine | | | | | | 63 | | | | | | | | | | | | | 63 |
| Total | 362 | 50 | 172 | 10 | 150 | 180 | 165 | 45 | 199 | 17 | 34 | | | | | | | 146 | 1530 |

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 75

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 | 247 | | | | | | | | | | | | | | | | | | | | | | | | | | 247 |
| C Cedar | | | | 126 | | | | | | | | | | | | | | | | | | | | | | | 126 |
| G Grass | | | | | 346 | | | | | | | | | | | | | | | | | | | | | | 346 |
| J Jack Pine | | | | | | | 213 | | | | | | | | | | | | | | | | | | | | 213 |
| X Non Stocked | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | 16 |
| O Oak | | | | | | | | | | | | | | 57 | | | | | | | | | | | | | 57 |
| R Red Pine | | | | | | | | | | | | | | | | 304 | | | | | | | | | | | 304 |
| F Spruce Fir | | | | | | | | | | | | | | | | | | | 26 | | | | | | | | 26 |
| M Upland Hdwds | | | | | | | | | | | | | | | | | | | | | | | | | 132 | | 132 |
| W White Pine | | | | | | | | | | | | | | | | | | | | | | | | | | 63 | 63 |
| Total | 247 | | | 126 | 346 | | 213 | | | | | | 16 | 57 | | 304 | | | 26 | | | | | | 132 | 63 | 1530 |

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **75**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|-------------------------|-----------|-----------------------------|----------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 6685 Cds | Hardwood | 1500 Cds |
| Hardwood | 196 Mbf | Hardwood | 31 Mbf |
| Softwood | 14211 Cds | Softwood | 528 Cds |
| Softwood | 765 Mbf | Softwood | 150 Mbf |
| Sum TotVol | 22818 Cds | Sum CutVol | 2390 Cds |
| Total Cmpt Acres | | Acres Proposed For Cut..... | 121 |
| 1530 | | | |

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 75

Entry Year: 2007

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FD Status |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-----|------------|-------------------|----------------------------------|---------------|------------------|----------------------|-----------|
| 6 | A6 | 13 | 61 | 54 | aspen (upland) | old growth (potential or actual) | final harvest | 1 | natural regeneration | |
| comnts Fmd : SCA - Deeryard. Winter cut only, Oct 1 - April 15. Mark red and white pine to cut. Focus on cutting any larger log size trees and poles that need to be thinned. Protect understory with spec in timbersale. Do not cut oak or hemlock. Stand should regenerate to a mixture of aspen and pine. Alternative acceptable management objectives are red pine or white pine. Habitat Type - ParV-Ao | | | | | | | | | | |
| 14 | A5 | 8 | 65 | 52 | aspen (upland) | old growth (potential or actual) | final harvest | 1 | natural regeneration | |
| comnts Fmd : SCA - Deeryard. Winter cut only Oct 1 - April 15. Stand is sparse in areas. Mark red and white pine to cut. Focus leaving younger pine poles with a few scattered larger pine for seed trees. Protect existing pine regeneration in understory. Do not cut oak or hemlock. Stand will likely regenerate to a mixture of aspen and pine. Alternative alternate management objectives are red pine and white pine. Habitat type - PVE | | | | | | | | | | |
| 26 | M6 | 17 | 85 | 58 | northern hardwood | old growth (potential or actual) | selection | 1 | | |
| comnts Fmd : SCA - Deeryard. Winter cut only Oct 1 - April 15. It is likely that the stand has never been cut before. Mixture of hard and soft maple. Do not cut oak and hemlock. Habitat type - ATFD | | | | | | | | | | |
| 29 | A6 | 7 | 70 | 58 | aspen (upland) | old growth (potential or actual) | final harvest | 1 | natural regeneration | |
| comnts Fmd : SCA - Deeryard. Winter cut only Oct 1 - April 15. Do not cut cedar, hemlock, and oak. Mark the red pine and white pine to cut. Thin pine poles where needed. Stand will likely regenerate to a mixture of aspen and pine. Alternative acceptable management objectives are red pine and white pine. | | | | | | | | | | |
| 32 | R6 | 29 | 54 | 60 | red pine | old growth (potential or actual) | thinning | 1 | | |
| comnts Fmd : SCA - Deeryard. More log size trees than stand 27. FDF thinned 1999 56-97-01 - Needs another thinning. Do not cut oak and hemlock. Habitat type - ParV-Ao | | | | | | | | | | |
| 33 | M6 | 9 | | 58 | northern hardwood | unevenaged | selection | 2 | | |
| comnts Fmd : Winter cut only Oct 1 - April 15. Selection harvest, complete marker standards. Do not cut oak and hemlock. Habitat type AFPO. | | | | | | | | | | |
| 37 | A6 | 9 | 70 | 55 | aspen (upland) | old growth (potential or actual) | final harvest | 1 | natural regeneration | |
| comnts Fmd : SCA - Deeryard. Winter cut only Oct 1 - April 15. Portions of stand has blown over. Cut all species except oak, hemlock, and cedar. Natural regeneration of any species mixture currently located within the stand is acceptable. Habitat type - ParVAa | | | | | | | | | | |
| 44 | A6 | 19 | 65 | 52 | aspen (upland) | old growth (potential or actual) | final harvest | 1 | natural regeneration | |
| comnts Fmd : SCA - Deeryard. Winter cut only Oct 1 - April 15. Mark red pine and white pine to cut. Protect red pine and white pine regeneration. Small patches of higher density pine poles should be thinned. Larger red and white pine seed trees should be left where clones of aspen are not present. Do not cut oak, hemlock, and cedar. Portions of the southern sale boundary will follow a steep ridge dropping down into a cedar stand. Paint line should be kept on top of this ridge to make the sale operable and to avoid cutting any cedar. Alternative acceptable management objectives are white pine and red pine. Habitat type - PVE+ | | | | | | | | | | |
| 45 | R6 | 5 | 41 | 50 | red pine | immature | thinning | 1 | | |
| comnts Fmd : Needs a row thinning. Do not cut oak and hemlock. Habitat type ParV-Ao | | | | | | | | | | |
| 51 | A5 | 5 | 65 | 52 | aspen (upland) | old growth (potential or actual) | final harvest | 1 | natural regeneration | |
| comnts Fmd : SCA - Deeryard. Winter cut only Oct 1 - April 15. Stand is sparse in areas. Mark red and white pine to cut. Focus leaving younger pine poles with a few scattered larger pine for seed trees. Protect existing pine regeneration in understory. Do not cut oak or hemlock. Stand will likely regenerate to a mixture of aspen and pine. Alternative acceptable management objectives are red pine and white pine. Habitat type - PVE | | | | | | | | | | |
| Total Acres..... | | 121 | | | | | | | | |

**Proposed Treatments
With Limiting Factors**

Compartment: 75

Entry Year: 2007

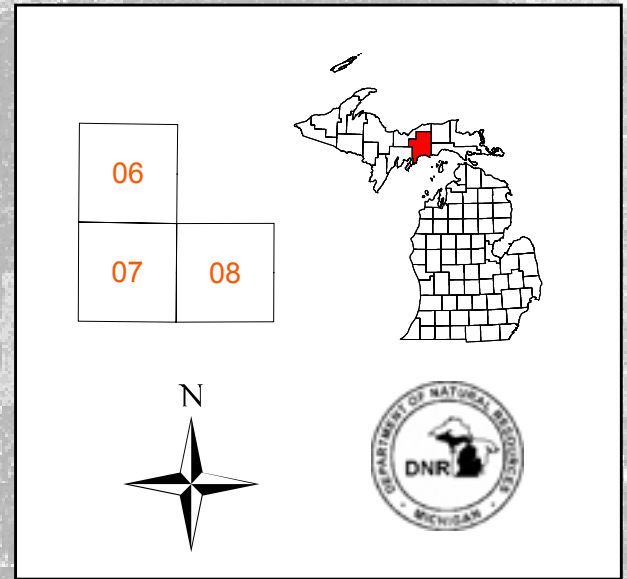
| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status |
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|------------------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

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 75
 T42N, R15W, Sec. 6-8
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2007
 Acres: 1,530 GIS Calculated
 Stand Examiner: Adam Petrelus
 Map Revised: 10/03/2005
 Map Phase: Pre-review

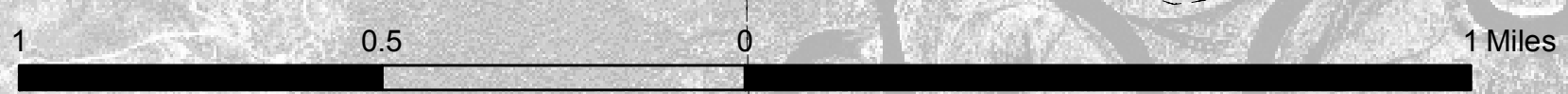
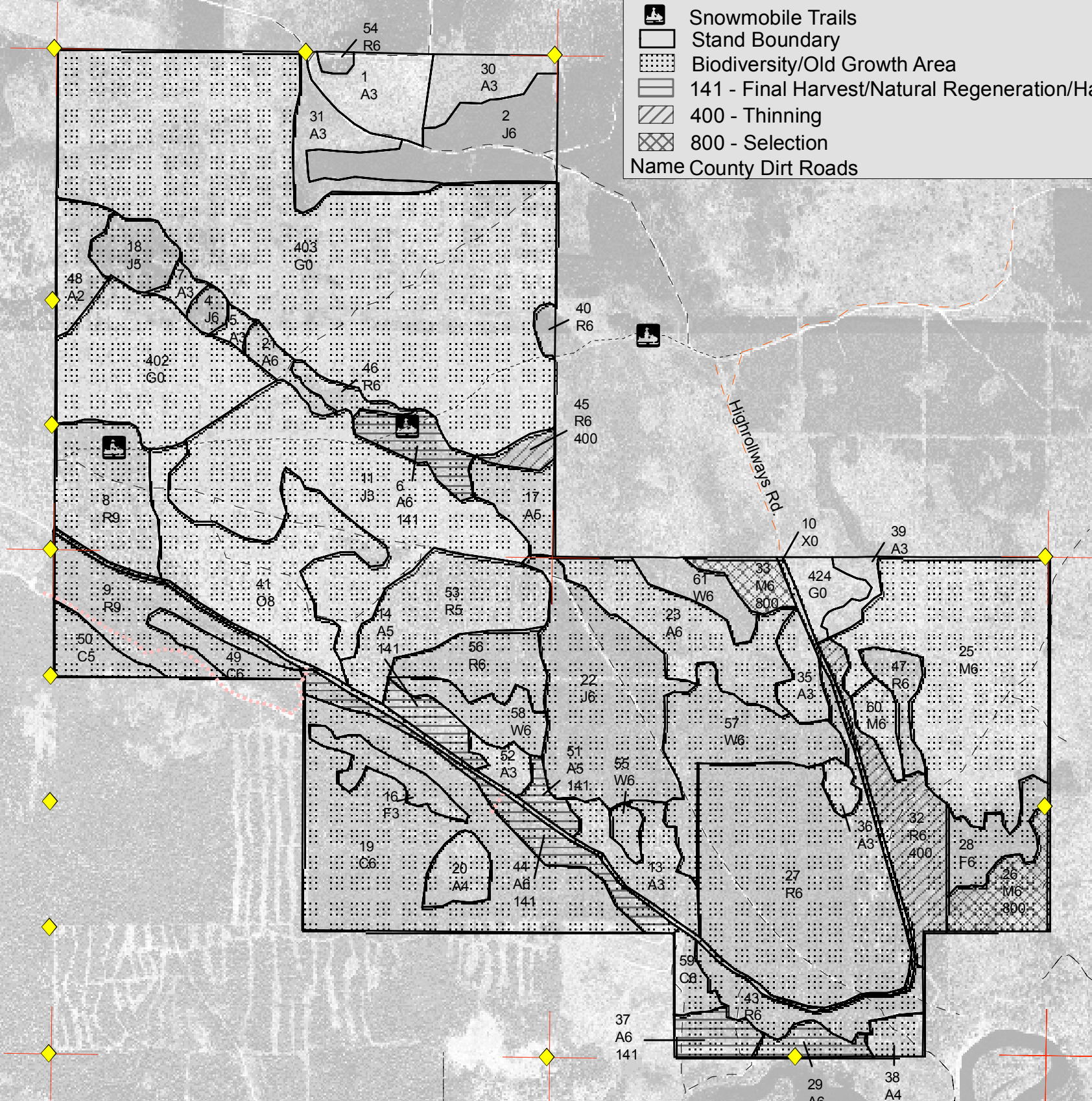
Field Map



Legend

- ◆ RLS Corners
- Miris Corners
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Snowmobile Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 141 - Final Harvest/Natural Regeneration/Hand Tools
- 400 - Thinning
- 800 - Selection

Name County Dirt Roads



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| Oak | | | | | | | | | 57 | | | | | | | | | | 57 |
| Red Pine | | | | | 44 | 30 | 165 | | | | 34 | | | | | | | 31 | 304 |
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SHINGLETON FOREST AREA

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With NO Limiting Factors

Compartment: 75

Entry Year: 2007

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| Total Acres..... | | 121 | | | | | | | | |

**Proposed Treatments
With Limiting Factors**

Compartment:

Entry Year:

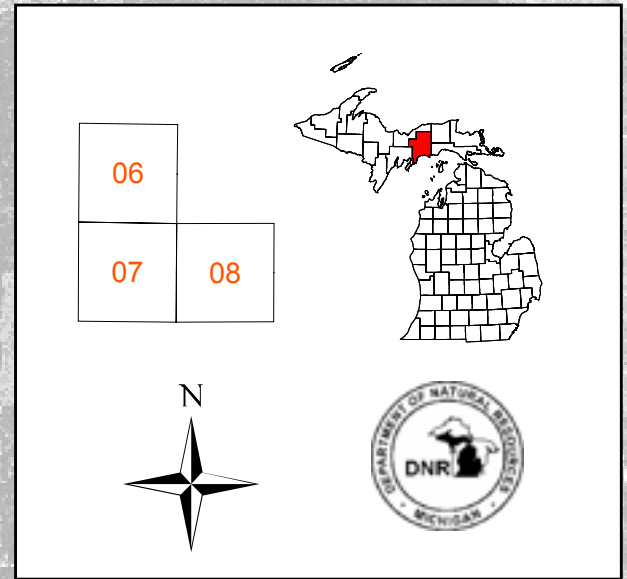
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|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|----------------------|

TREATMENT LIMITING FACTORS:

Total Acres..... #Error

Compartment 75
 T42N, R15W, Sec. 6-8
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2007
 Acres: 1,530 GIS Calculated
 Stand Examiner: Adam Petrelus
 Map Revised: 10/03/2005
 Map Phase: Pre-review

Field Map



Legend

- ◆ RLS Corners
- Miris Corners
- County Poor Dirt Roads
- Poor Dirt Roads
- ⋯ Closed Roads
- Trails
- Snowmobile Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 141 - Final Harvest/Natural Regeneration/Hand Tools
- 400 - Thinning
- 800 - Selection

Name County Dirt Roads

