



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 196 ENTRY YEAR: 2007

Compartment Acreage: 1,260 County: Alger

Revision Date: 9/22/05

Stand Examiner: Jennifer Burnham

Legal Description: T46N R17W Sections 32 and 33

RMU (if applicable):

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

Soil and Topography: The topography in this compartment is mostly flat with low wet areas; the soils are mainly Saugatuck, Wallace, Carbondale and Kinross, that are low in natural fertility. The Wallace sands will be slightly higher ground having the better drainage of the others where the Carbondale will have the slowest drainage supporting lowland conifers and non timber types. The SE part of section 32 and SW part of section 33 lie within the Shingleton Fen Land Type Association while the remainder of the compartment lies within the Munising Moraine Land Type Association.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership within the compartment is State land except for a 40 in the NW1/4 NW1/4 of Section 32, which is with the limits of the town of Shingleton. South of the compartment is USFS lands and the remainder of the surrounding land is State.

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

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

Special Management Designations or Considerations: The corridor of lows and swamp conifers that are surrounding Hickey Creek are under consideration for potential old growth classification. The Department of Corrections has a water waste pipe that is in the NW1/4 of Section 32.

Watershed and Fisheries Considerations: Hickey Creek is found in this compartment and is classified as cold water. This stream supports a cold-water fishery community, including brook trout, and thus should be protected from inputs of sediments which cover spawning gravels. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

Wildlife Habitat Considerations: This compartment lies immediately south and east of Shingleton. The compartment is a composite of open marsh and low forested ridges. The Hickey Creek runs northwest to southeast across the central portion of the compartment. General land office survey notes show that in the

1850s, lowlands were dominated by conifers including spruce, tamarack, hemlock, white pine and cedar. Balsam fir was also fairly prevalent. Deciduous species occurred in lesser amounts. Species reported in this compartment included yellow birch, red maple, beech, sugar maple, white birch and black ash., spruce, and tamarack. Current forest composition appears to have shifted toward deciduous species in the northeast and southwest edges of the compartment. The majority of the compartment appears to have similar species composition as found circa 1850. Wildlife habitat goals in this compartment include enhancing the hemlock and white pine components in the hardwoods of the southwestern portions, maintaining the aspen component in the northeastern portion and protecting the wetland integrity through the main body of the compartment.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien (PdC) Formations subcrop below the glacial drift. The Black River is quarried for stone elsewhere in the UP. There is a gravel pit in Section 19 and there should be good potential. There is no commercial oil and gas production in the UP.

Vehicle Access: Access to the compartment is poor to fair even though M-94 cuts through the SW part of the compartment and M-28 is the northern boundary. The type of soils does not allow for many forest roads that would not be classified as “winter” roads.

Survey Needs: None.

Recreational Facilities and Opportunities: The Hickey Creek offers good fishing in the compartment with access off Birch Street in Shingleton. Snowmobile trail #41 goes through section 32 and offers access to town and other trails heading north and west out of town.

Fire Protection: Fire response to the area will be fairly rapid. Shingleton station is less than a ½ mile from the compartment via M-28. The current road system would not be sufficient for fire operations; however the timber types present are not of high fire potential. The only real urban interface problem within the compartment would be in the private 40 in section 32.

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

ALGER COUNTY

COMPARTMENT: 196

Table 3

(acres shown in boxes)

STAND AGE CLASS

| COVER TYPE | Not | | | | | | | | | | | | 100- | 110- | 120- | 130- | 140- | 150- | All | Total |
|--------------|------------|-----|-------|-------|-------|-----------|-----------|-----------|------------|-----------|-----------|-----------|------------|------|------|------|------|------------|-------------|-------|
| | Coded | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 109 | 119 | 129 | 139 | 149 | 159 | Aged | | |
| Aspen | | | | | | 40 | 8 | | | | | | | | | | | | 48 | |
| Black Spruce | | | | | | | | | 197 | 50 | | | | | | | | | 247 | |
| Cedar | | | | | | | | | | | | | 259 | | | | | 97 | 356 | |
| Grass | 17 | | | | | | | | | | | | | | | | | | 17 | |
| Hemlock | | | | | | | | | | | | | | | | | | 30 | 30 | |
| LowInd Brush | 20 | | | | | | | | | | | | | | | | | | 20 | |
| Marsh | 149 | | | | | | | | | | | | | | | | | | 149 | |
| Mx Swmp Cnfr | | | | | | | 48 | | | | | 27 | | | | | | | 75 | |
| Non Stocked | 10 | | | | | | | | | | | | | | | | | | 10 | |
| Spruce Fir | | | | | | | | | | | | | | | | | | 41 | 41 | |
| Tamarack | | | | | | | | | | | 51 | | | | | | | | 51 | |
| Treed Bog | 29 | | | | | | | | | | | | | | | | | | 29 | |
| Upland Hdwds | | | | | | | | 35 | | | | | | | | | | 152 | 187 | |
| Total | 225 | | | | | 40 | 56 | 35 | 197 | 50 | 51 | 27 | 259 | | | | | 320 | 1260 | |

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: 196

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 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| S Black Spruce | | 247 | | | | | | | | | | | | | | | | | | | | | | | | | 247 |
| C Cedar | | | | 356 | | | | | | | | | | | | | | | | | | | | | | | 356 |
| G Grass | | | | | 17 | | | | | | | | | | | | | | | | | | | | | | 17 |
| H Hemlock | | | | | | 30 | | | | | | | | | | | | | | | | | | | | | 30 |
| L LowInd Brush | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | 20 |
| N Marsh | | | | | | | | | | | 149 | | | | | | | | | | | | | | | | 149 |
| Q Mx Swmp Cnfr | | | | | | | | | | | | 75 | | | | | | | | | | | | | | | 75 |
| X Non Stocked | | | | | | | | | | | | | 10 | | | | | | | | | | | | | | 10 |
| F Spruce Fir | | | | | | | | | | | | | | | | | | | 41 | | | | | | | | 41 |
| T Tamarack | | | | | | | | | | | | | | | | | | | | | 51 | | | | | | 51 |
| D Treed Bog | | | | | | | | | | | | | | | | | | | | | | 29 | | | | | 29 |
| M Upland Hdwds | | | | | | | | | | | | | | | | | | | | | | | | 187 | | | 187 |
| Total | 48 | 247 | | 356 | 17 | 30 | | | 20 | | 149 | 75 | 10 | | | | | | 41 | | 51 | 29 | | 187 | | 1260 | |

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: 196

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|-------------------------|-----------|-----------------------------|---------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 3981 Cds | Hardwood | 558 Cds |
| Hardwood | 12 Mbf | Hardwood | 2 Mbf |
| Softwood | 11621 Cds | Softwood | 269 Cds |
| Softwood | 167 Mbf | Softwood | 39 Mbf |
| Sum TotVol | 15960 Cds | Sum CutVol | 909 Cds |
| Total Cmpt Acres | | Acres Proposed For Cut..... | |
| 1260 | | 87 | |

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 196 Entry Year: 2007

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDf Status | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-----|------------|-------------------|-------------|---------------|------------------|---------------|------------|--|
| 5 | M6 | 22 | | 50 | northern hardwood | unevenaged | selection | 2 | | | |
| comnts Fmd : Stand was picked through during non-deer yard time. Poor quality red maple, some aspen, fir, white pine and large spruce especially by the edges. Snowmobile trail is on the north edge of the stand. Cut to promote diversity. There are some hard maple scattered. 98= hemlock and fir. North part of the stand had 'junk' piles removed in Aug. 2004 trespass from the sawmill. Department of Corrections wastewater pipe goes through the stand. Maintance opening marked with 4X4 posts, pipeline finished in 1998. MO is for northern hardwoods. Paquin Sand soil. | | | | | | | | | | | |
| 11 | H6 | 10 | | 30 | hemlock | unevenaged | selection | 2 | | | |
| comnts Fmd : Some large yellow birch still living but not very healthy. Area is what stand 14 looked like before winter deer cutting. Cedar is coming in well on the edges. Some young hemlock 1-4' tall is present in the understory. When cut manage for hemlock and other conifers. White pine is not doing as well. SI for white pine is 33. Snowmobile trail crosses part of the stand. MO is for hemlock, white pine and yellow birch mix. Some hardwood will come back into the stand with other species. There is no longer a deer yard in the area so impact from browse would be minor. | | | | | | | | | | | |
| 13 | H6 | 8 | | 30 | hemlock | unevenaged | selection | 2 | | | |
| comnts Fmd : Some large yellow birch still living but not very healthy. Area is what stand 14 looked like before winter deer cutting. Cedar is coming in well on the edges. Some young hemlock 1-4' tall is present in the understory. When cut manage for hemlock and other conifers. White pine is not doing as well. SI for white pine is 33. MO is for hemlock, white pine and yellow birch mix. Some hardwood will come back into the stand with other species. There is no longer a deer yard in the area so impact from browse would be minor. | | | | | | | | | | | |
| 15 | M6 | 3 | | 50 | northern hardwood | unevenaged | selection | 2 | | | |
| comnts Fmd : Stand was picked through in the 80's. SI from stand 6 is 40 for red maple. Not sure why there is such a huge difference, soil type is the same. Logs trees are present but they are mainly grade 3's. Corrections wastewater pipeline goes through the stand. Paquin Sands soil. MO is northern hardwoods. | | | | | | | | | | | |
| 23 | A4 | 8 | 49 | 51 | aspen (upland) | low quality | final harvest | 3 | | | |
| comnts Fmd : Aspen and maple are of poor quality. Cutting now should help to impove stems/acre. Leave white pine when cut. Scattered black spruce of varying ages in stand. Finch-Spot Complex soil. MO is aspen with scattered similar conifer component before cut. | | | | | | | | | | | |
| 24 | M6 | 16 | | 46 | northern hardwood | unevenaged | selection | 2 | | | |
| comnts Fmd : Basal area is not consistant through the stand. Ground is lower near the C - type and could hold some water. Trees are good form. Pockets of white pine and fir in the understory. Some scattered large white pine logs especially near the swamp edge. Some of these could be marked. Mark to help promote white pine, yellow birch and hemlock in the stand. Do not mark the cedar or hemlock to cut. Finch-Spot Complex soil. MO is northern hardwoods. | | | | | | | | | | | |
| 43 | H6 | 12 | | 30 | hemlock | unevenaged | selection | 2 | | | |
| comnts Fmd : Some large yellow birch still living but not very healthy. Area is what stand 14 looked like before winter deer cutting. Cedar is coming in well on the edges. Some young hemlock 1-4' tall is present in the understory. When cut manage for hemlock and other conifers. White pine is not doing as well. SI for white pine is 33. MO is for hemlock, white pine and yellow birch mix. Some hardwood will come back into the stand with other species. There is no longer a deer yard in the area so impact from browse would be minor. | | | | | | | | | | | |
| Total Acres..... | | 79 | | | | | | | | | |

SHINGLETON FOREST AREA

**Proposed Treatments
With Limiting Factors**

Compartment: 196 **Entry Year: 2007**

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDI Status |
|-------|------------|-------|-----|------------|----------|-----------|---------------|------------------|---------------|------------|
| 28 | T6 | 8 | 88 | 44 | tamarack | mature | final harvest | 3 | | |

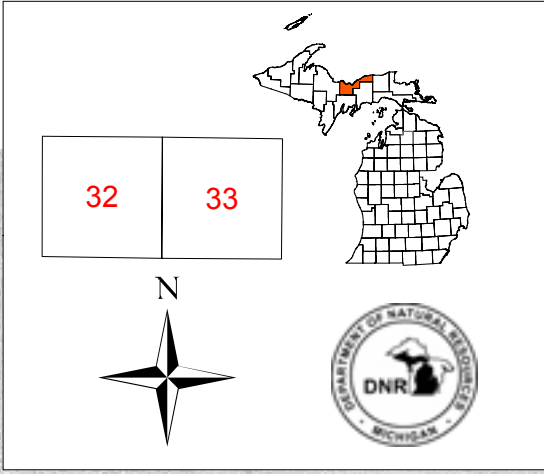
TREATMENT LIMITING FACTORS: Potential or designated old growth

comnts Fmd : Scattered large white pine and spruce. Some cedar is present in over and understory. There is a good mix of species and age class. Some hardwoods, white birch and cherry have died out. Stand has areas with lower basal area. Conifer on the DOQ is the understory spruce, fire and cedar mix. 98 = fir, white birch and aspen. These species are younger than the featured tamarack. MO is for tamarack with the same component of other species coming back from before cutting. SCA - POG- Threatened species, see locked box.

Total Acres..... 8

Field Map

Compartment 196
 T46N, R17W, Sec. 32, 33
 County: Alger
 Unit: Shingleton
 YOE: 2007
 Acres: 1,260 GIS Calculated
 Stand Examiner: Jennifer Burnham
 Map Revised: 10/04/2005
 Map Phase: Pre-review



Legend

- ◆ RLS Corners
- × GPS Corners
- - - Poor Dirt Roads
- - - Closed Roads
- Trails
- Railroads
- Pipelines
- Snowmobile Trails
- State Highway
- Stand Boundary
- Biodiversity/Old growth area
- 100 - Final Harvest
- 800 - Selection
- Name Poor Dirt Roads
- Name Water features

