



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 26 ENTRY YEAR: 2007

Compartment Acreage: 2500 County: Schoolcraft

Revision Date: 9/22/2005

Stand Examiner: Robert Burnham

Legal Description: T44N R16W Sections 8, 9 & 16-18

RMU (if applicable):

Management Goals: The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and Topography: The soils in Schoolcraft County are currently being mapped by the Soil Survey. Preliminary soils information including Habitat Types can be found in the specific stand comments. In general, the soils are moderately drained sandy soils on the uplands and poorly drained organic soils on the low ground. The terrain in the area is flat to rolling. The compartment lies within 4 different Land Type Association's (LTA's). The eastern portion of the compartment which is designated as potential old growth (POG) is the Hickey Creek Peatlands LTA. The center of the compartment is the Stutts Creek Sands LTA. Finally the western portion of the compartment is split between the Mintfarm LTA and the Shingleton Fen LTA.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership within the compartment is mostly contiguous blocks of State land, however there is some private fragmentation, including corporate land. The private land is either forest or marsh and it is currently used mainly for hunting. There are camps on most of the private parcels. The Hiawatha National Forest lies directly west of the compartment.

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 lands east of Haymeadow Creek in Sections 8, 9 and 16 are designated as Potential Old Growth. Areas formerly nominated as potential old growth and or Biodiversity Stewardship Areas are being called Special Conservation Areas (SCA's) so they can be reviewed later by the Biodiversity Conservation Committee.

Watershed and Fisheries Considerations: This compartment contains sections of Stutts Creek, Hay Meadow Creek, and Grindstone Creek. All streams in this area are considered to be warm-water. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

Wildlife Habitat Considerations: This compartment is located in central Schoolcraft County. Both the Hay meadow and Stutts Creeks pass through this compartment on northwest to southeast courses. General Land Office notes show that subtle changes in elevation provided for different vegetative land cover. The lowest areas were dominated by open marsh, transition sites held spruce, tamarack, elm, black ash, and cedar. Upland areas held white pine, white birch, red maple, red pine, aspen, hemlock, yellow birch. Current forests appear to have similar species composition compared to pre-settlement times. However, jack pine and aspen are somewhat more abundant than in the 1850s. The wildlife habitat objectives in this compartment include protection of the marsh complex, providing age class and species diversity with both the conifer and deciduous forests, and maintaining an aspen component with the compartment.

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 Ordovician Collingwood Shale and Trenton Group subcrop below the glacial drift. The Trenton is quarried for stone elsewhere in the UP. Gravel pits are not located in the area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access: There are 2 Department Roads within the compartment, the Haymeadow Creek Road accesses the center of the compartment and the South Stutts Truck Trail accesses the west side of the compartment. There is no vehicle access on the east side of the compartment or the land between the North and South Branches of Stutts Creek. There are several private gates within the compartment which are severing access to parcels of State land.

Survey Needs: The private 40 on the east side of section 18 needs survey work to resolve a possible cabin trespass.

Recreational Facilities and Opportunities: There are no recreational facilities within the compartment, the area does offer some secluded hunting opportunities due to the lack of roads in areas of the compartment.

Fire Protection: Response times to fires within the compartment will be relatively slow due to its location. Fire operations will be challenging in some areas due to the lack of roads and the number of creeks present as well as the organic soils in these areas. The compartment is comprised mainly of jack pine in varying age classes which could potentially lead to some larger fires due response times, location and this volatile fuel type given the proper weather conditions.

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: 26

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 | | 95 | 33 | 1 | | | | | | | | | | | | | | | 129 |
| Black Spruce | | | | | | | 10 | 110 | 76 | | 81 | | | | | | | | 277 |
| Cedar | | | | | | | | | | | 6 | 49 | | | | | | | 55 |
| Hemlock | | | | | | | | | | | | 11 | | | | | | | 11 |
| Jack Pine | | 224 | 252 | | 5 | 142 | 41 | 38 | 65 | | | | | | | | | | 767 |
| LowInd Brush | 751 | | | | | | | | | | | | | | | | | | 751 |
| Marsh | 29 | | | | | | | | | | | | | | | | | | 29 |
| Mx Swmp Cnfr | | | | | | | | | | 60 | 54 | | | | | | | | 114 |
| Red Pine | | | | | | 44 | | 13 | 23 | 7 | | 20 | | | | | | | 107 |
| Swamp Hrdwds | | | | | | | | 5 | 42 | | | | | | | | | 115 | 162 |
| Treed Bog | 95 | | | | | | | | | | | | | | | | | | 95 |
| Water | 3 | | | | | | | | | | | | | | | | | | 3 |
| Total | 878 | 319 | 285 | 1 | 5 | 186 | 51 | 166 | 206 | 67 | 141 | 80 | | | | | | 115 | 2500 |

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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: 26

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 | 129 | | | | | | | | | | | | | | | | | | | | | | | | | | 129 |
| S Black Spruce | | 277 | | | | | | | | | | | | | | | | | | | | | | | | | 277 |
| C Cedar | | | | 55 | | | | | | | | | | | | | | | | | | | | | | | 55 |
| H Hemlock | | | | | | 11 | | | | | | | | | | | | | | | | | | | | | 11 |
| J Jack Pine | | | | | | | 767 | | | | | | | | | | | | | | | | | | | | 767 |
| L LowInd Brush | | | | | | | | | 751 | | | | | | | | | | | | | | | | | | 751 |
| N Marsh | | | | | | | | | | | 29 | | | | | | | | | | | | | | | | 29 |
| Q Mx Swmp Cnfr | | | | | | | | | | | | 114 | | | | | | | | | | | | | | | 114 |
| R Red Pine | | | | | | | | | | | | | | | | 107 | | | | | | | | | | | 107 |
| E Swamp Hrdwds | | | | | | | | | | | | | | | | | | | | 162 | | | | | | | 162 |
| D Treed Bog | | | | | | | | | | | | | | | | | | | | | | | 95 | | | | 95 |
| Z Water | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 |
| Total | 129 | 277 | | 55 | | 11 | 767 | | 751 | | 29 | 114 | | | | 107 | | | | 162 | | 95 | | | 3 | | 2500 |

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 26

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|-------------------------|-----------|-----------------------------|----------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 1597 Cds | Hardwood | 277 Cds |
| Hardwood | 18 Mbf | Softwood | 3448 Cds |
| Softwood | 10326 Cds | Softwood | 82 Mbf |
| Softwood | 352 Mbf | Sum CutVol | 3889 Cds |
| Sum TotVol | 12663 Cds | | |
| Total Cmpt Acres | | Acres Proposed For Cut..... | |
| 2500 | | 260 | |

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 26

Entry Year: 2007

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status |
|--|------------|-------|-----|------------|-----------|----------------------------|------------------|------------------|----------------------------|------------|
| 15 | R6 | 23 | 69 | 55 | red pine | immature | shelterwood-seed | 2 | | |
| comnts Fmd : Stand was likely once white pine and it burned very ard after logged at the turn of the century. The aspen is now pioneered on-site which is poor quality. The red pine is much heavier on the southern portion of the stand near the E type possibly because of an improved micro-climate. Stand is 2 or 3 different ages, there are some very nice red pine poles. Cut aspen out and thin through the heavier areas of red pine. Aspen will sprout back so cut stand in summer to get some scuffing of the soil to encourage red pine. Manage as a natural system with current species mix. Soils are Proper fine sands. Do not cut oak and hemlock. The Habitat type is PVE. | | | | | | | | | | |
| 16 | J1 | 26 | 3 | 55 | jack pine | in process of regeneration | | 0 | planting | |
| comnts Fmd : [12-02-02] Stand was never scarified after cut, stand was trenched and seeded in the summer of 2002 (28 acres), schedule a regen check in 2005. Walked through stand, very few trees, stand needs to be planted, codes are bieng switched to reflect this. Soils are Proper fine sands. FTP # C41-877 (8/22/05 AP) 2005 Regen count results - 333 jack pine per acre Stand is on the list to be planted spring 2006. | | | | | | | | | | |
| 17 | J5 | 25 | 74 | 50 | jack pine | mature | final harvest | 2 | other - specify in remarks | |
| comnts Fmd : Jack pine will not hold any longer, needs to be cut now. There is a lot of sub-merchantable spruce. No buffer along Bear slough just protect it from slash and don't cross if land owner gives access. Stand to low to do any scarification, adjacent stands seem to regerate well on their own. Site may convert to spruce which is ok as long as jack pine remains a component. Stand 10 to the east is not 5' tall yet but the green up requirement should be met by the time the stand is prepped/cut. Do not cut oak and hemlock. Soils are Deford Muck. | | | | | | | | | | |
| 31 | J6 | 41 | 57 | 53 | jack pine | mature | final harvest | 2 | natural regeneration | |
| comnts Fmd : Stand has some really nice red pine logs, try and leave some smaller pole sized red pine to keep the component in the stand. Portions of the stand may have been cut through in the early 60's when seed tree cuts were done. Jack pine is the only MO which is acceptable. The green-up requirement has been met. Do not cut oak and hemlock. Soils are Proper Fine sand and the Habitat type is PVE. | | | | | | | | | | |
| 33 | J6 | 8 | 67 | 53 | jack pine | mature | final harvest | 2 | natural regeneration | |
| comnts Fmd : Stand is an un-cut strip between Federal land and state land that was likely left because old sale lines were placed before the corners. Jack Pine is the only acceptable MO, a spruce component is fine. The green-up requirement has been met. Do not cut oak and hemlock. | | | | | | | | | | |
| 34 | J5 | 40 | 70 | 53 | jack pine | mature | final harvest | 2 | natural regeneration | |
| comnts Fmd : Stand is predominately low ground but is bieng scheduled for scarification so that the high ground that exists can be scarified. Stand was partially cut through in the early 60's as a seed tree cut and may be 2 aged in some areas. However, the heavier cut areas were split out. Soils are Finch Spot complex and the Habitat type is PArVAa. Spruce is an acceptable alternative MO as long as jack pine is a component. The green-up requirement has been met. Do not cut oak and hemlock. | | | | | | | | | | |
| 39 | R6 | 25 | 44 | 55 | red pine | immature | thinning | 2 | | |
| comnts Fmd : Stand is a plantation, this will be the first thinning. Soils are Proper Fine Sand Do not cut oak and hemlock. | | | | | | | | | | |
| 63 | J5 | 17 | 64 | 51 | jack pine | mature | final harvest | 2 | other - specify in remarks | |
| comnts Fmd : Stand is poorly stocked but it is mature. Ground is quite low so scarification is not an option. Stand is coded for just follow up counts after harvest. Spruce is an acceptable alternative MO. The green-up requirement has been met. Soils are Deford Muck Do not cut oak and hemlock. | | | | | | | | | | |
| 75 | J6 | 13 | 64 | 53 | jack pine | mature | final harvest | 2 | natural regeneration | |
| comnts Fmd : Stand is several age classes. There are some really nice red pine logs that are older than the jack pine and there is some aspen that has filled in as well. There is some white birch within stand that didn't fall on plots. Keep the sale out of the planted red pinein stands 52 and 39. Leave some red pine for seed as well. Soils are proper fine sands and the Habitat type is PVE. Jack pine is the only acceptable MO. The green-up requirement has been met. Do not cut oak and hemlock. | | | | | | | | | | |
| Total Acres..... | | 218 | | | | | | | | |

SHINGLETON FOREST AREA

**Proposed Treatments
With Limiting Factors**

Compartment: 26

Entry Year: 2007

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status |
|----------|------------|-------|-----|------------|--------------------|-----------|---------------|------------------|----------------------|------------|
| 4 | S6 | 64 | 61 | 53 | black spruce-swamp | mature | final harvest | 2 | natural regeneration | |

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Stand was set up in 1996 "Around the Gate Sale", it was never sold because access could not be obtained long term from the landowner to the south. Stand was typed as jack pine last time but there was more spruce volume on the cruise, the type was changed to spruce, however there still is enough high ground jack pine to scarify. Stand is bieng prescribed again, still healthy but factored due to blocked access by a private land owner. Original sale volumes are as follows- Black Spruce=526 cds, Jack Pine 417 cds, Tamarack= 49 cords and hardwood 26 cds. Soils are Deford-Augres-Rubicon Complex. Do not cut oak and hemlock.

| | | | | | | | | | | |
|----------|-----------|---|--|----|-----------------|--------|---------------|---|--|--|
| 9 | E5 | 4 | | 46 | swamp hardwoods | mature | final harvest | 3 | | |
|----------|-----------|---|--|----|-----------------|--------|---------------|---|--|--|

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Part of "Around The Gate Sale" prepped in 1996 but never cut since access through private could not be obtained, stand is bieng prescribed again but factor limites due to private. Soils are Markey Mucky Peat. Do not cut oak and hemlock.

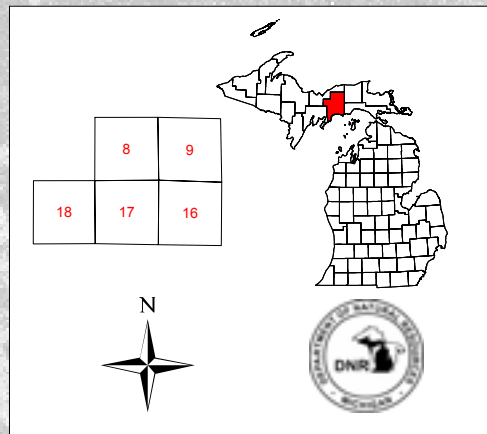
| | | | | | | | | | | |
|-----------|-----------|----|-----|----|----------|--------|--|---|----------------------|--|
| 24 | R7 | 20 | 105 | 60 | red pine | mature | | 0 | natural regeneration | |
|-----------|-----------|----|-----|----|----------|--------|--|---|----------------------|--|

TREATMENT LIMITING FACTORS: Regeneration technology inadequate

comnts Fmd : [1/17/03 BB] Stand was cut in 2000, 40 acres were scarified in the summer of 2002 with department staff and the 440 skidder. Schedule a regen check in summer of 2005.
Stand is bieng split this entry, this portion of old stand 19 has an overstory of red pine ranging in BA from 10-100 sq ft. Stand was counted in spring of 04 with the following result; Jack pine = 157tpa, red pine=57tpa, red maple=257tpa, aspen=214tpa, spruce=29tpa, white pine= 57tpa, fir=86tpa; total 856 tpa. TMS recommendation was to fill holes in by planting red pine with inmates. Stand planted Summer/fall 2004. Stand counted spring 2005; 43 tpa of black spruce. 300 tpa white pine, 214 tpa fir and and 214 tpa of aspen. The stand now has 717 tpa of regeneration but 0 of the desired species of red pine. After walking through the stand and seeing very little regeneration and knowing there were problems with the count info due to the split stand shedule stand to be burned. If red pine regenerates remove the overstory next entry. Soils in stand are Finch-spot complex.

Total Acres..... 88

Compartment 26
 T44N, R16W, Sec. 8, 9, 16-18
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2007
 Acres: 2,500 GIS Calculated
 Stand Examiner: Bob Burnham
 Map Revised: 9/30/2005
 Map Phase: Pre-review



Field Map

Legend

- Miris Corners
- - Poor Dirt Roads
- - - Closed Roads
- Stand Boundary
- ▤ Biodiversity/Old Growth Area
- ▦ 011 - Planting/Hand Tools
- ▧ 100 - Final Harvest
- ▨ 145 - Final Harvest/Natural Regeneration/Mechanical, other
- ▩ 198 - Final Harvest/Other/Other
- 300 - Shelterwood-seed
- 400 - Thinning
- ▬ 598 - Removal/Other/Other
- Name Poor Dirt Roads
- Name Water Features

