



**SHINGLETON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 116 ENTRY YEAR: 2007**

**Compartment Acreage: 1429      County: Schoolcraft**

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**Revision Date:** Sept. 27, 2005

**Stand Examiner:** Kristen Matson

**Legal Description:** T45N R14W Section 1; T46N R14W Sections 35 & 36

**RMU (if applicable):**

**Management Goals:** Timber production and wildlife habitat management. This compartment is adjacent to the Bullock Ranch area which has traditionally been managed for wildlife species using large openings.

**Soil and Topography:** The topography consists of flat, low, wet ground with steep, high ridges and islands. Large marshland with Markey- Mucky Peat, Deford Muck and Carbondale-Lupton-Tawas Muck soils; islands of pine with Seney- Deford Complex and Deford-AuGres-Rubicon Deep Water Table Complex soils.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Seney National Wildlife Refuge borders the compartment on the south, the remainder of the compartment is surrounded by state owned land.

**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 identified at this time.

**Special Management Designations or Considerations:** None.

**Watershed and Fisheries Considerations:** The Clark Ditch is found in this compartment. Clark Ditch is classified as warm-water, therefore, beaver are not a concern here. However, BMP's should be followed to prevent sediment from entering this system.

**Wildlife Habitat Considerations:** This compartment lies south of M-28 and 1.5 miles west of Seney. The entire compartment lies within the Seney marsh/ridge complex. Surveyor notes indicate that marsh dominated the pre-settlement landscape of this compartment. Areas that were forested at that time consisted primarily of tamarack with smaller amounts of white and red pine mixed in. While the marsh remains largely intact, the current forest areas are now dominated by red pine and jack pine. Wildlife habitat objectives in this compartment include maintaining the integrity of the wetland complex while providing a diversity of forest conditions on the forested ridges.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The

Ordovician Utica Shale subcrops below the glacial drift. The Utica does not have a current economic use. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:** Most of this compartment is inaccessible by vehicles.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:** There are no DNR recreational facilities within the compartment, but the area is used for bear and deer hunting.

**Fire Protection:** Fires are generally caused by lightning strikes. Organic soils sometimes cause difficulty in fire suppression. Lack of roads makes access to fires difficult.

**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: 116

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen			33			21													54
Grass	6																		6
Jack Pine		10	12		42	115		56											235
Lowlnd Brush	662																		662
Non Stocked	79																		79
Red Pine		19				77	286											6	388
Water	3																		3
White Pine							2												2
<b>Total</b>	<b>750</b>	<b>29</b>	<b>45</b>		<b>42</b>	<b>213</b>	<b>288</b>	<b>56</b>										<b>6</b>	<b>1429</b>

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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: 116

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	54																										54
G Grass					6																						6
J Jack Pine							235																				235
L LowInd Brush									662																		662
X Non Stocked													79														79
R Red Pine																388											388
Z Water																									3		3
W White Pine																										2	2
<b>Total</b>	<b>54</b>				<b>6</b>		<b>235</b>		<b>662</b>				<b>79</b>			<b>388</b>									<b>3</b>	<b>2</b>	<b>1429</b>

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 116

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	596 Cds	Hardwood	213 Cds
Softwood	8509 Cds	Softwood	1666 Cds
Softwood	340 Mbf	Softwood	27 Mbf
Sum TotVol	9785 Cds	Sum CutVol	1933 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
1429		177	

SHINGLETON FOREST AREA

Proposed Treatments  
With NO Limiting Factors

Compartment: 116 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
80	X0	55			other non-stocked or non-forest or non-productive	nonstocked		0	cleaning & weeding	

comnts Fmd : M-28 R-O-W. Remove all scotch pine (near Clark Ditch) using inmates with hand tools.

Total Acres..... 55

## SHINGLETON FOREST AREA

Proposed Treatments  
With Limiting Factors

Compartment: 116 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
21	R6	17	50	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Ridge in large marsh; difficult access. Lower ground has more jack pine and aspen and taller shrubs. Higher ground with all sizes and ages of red pine. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV										
25	J5	7	58	47	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Regeneration technology inadequate										
comnts Fmd : Small low, ridge in marsh, difficult access. Flat, low ground frequently flooded due to beavers; areas of dead trees. If possible, clearcut - may leave some RP & WP on higher ground. Soil=Deford-AuGres- Rubicon Deep Water Table Complex										
26	R6	2	50	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Small ridge in marsh, adjacent to SNWR; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex										
27	J5	2	65	49	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Regeneration technology inadequate										
comnts Fmd : Small ridge in marsh adjacent to SNWR; difficult access. Flat, low wet ground. If possible, clearcut - may leave some RP & WP. Soil=Deford-AuGres- Rubicon Deep Water Table Complex										
28	J6	19	65	49	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Regeneration technology inadequate										
comnts Fmd : Ridge in marsh adjacent to SNWR; difficult access. Mainly flat, low wet ground; some ridges with red & white pine. Some areas of blown down trees. If possible, clearcut - may leave some RP & WP. Soil=Deford-AuGres- Rubicon Deep Water Table Complex										
29	R6	9	50	49	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands nearby. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV										
30	J6	4	58	47	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Regeneration technology inadequate										
comnts Fmd : Low ridge within a large marsh; difficult access. If it becomes possible to harvest here, clearcut all trees, but some white & red pine may be left. soil= Deford-AuGres-Rubicon Deep Water Table complex										
31	R6	27	50	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV										
32	J5	5	58	47	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Regeneration technology inadequate										
comnts Fmd : Low ridge within a large marsh; difficult access. If it becomes possible to harvest here, clearcut all trees, but some white & red pine may be left. 98=tamarack and white pine soil= Deford-AuGres-Rubicon Deep Water Table complex										

**SHINGLETON FOREST AREA**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 116 Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>33</b>	<b>J6</b>	11	60	49	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Regeneration technology inadequate										
comnts Fmd : Ridge in marsh, difficult access. Lower ground with jack pine, aspen and taller shrubs; higher ground with red and white pine and smaller shrubs. If possible, clearcut jack pine and aspen - may leave some RP & WP on higher ground. Soil=Deford-AuGres- Rubicon Deep Water Table Complex										
<b>34</b>	<b>R6</b>	14	50	49	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PArV										
<b>35</b>	<b>R6</b>	11	47	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Ridge in large marsh; difficult access. Lower ground has more jack pine and aspen with taller shrubs. Higher ground has red pine and blueberry. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PArV										
<b>36</b>	<b>R6</b>	4	55	49	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Small ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PArV										
<b>37</b>	<b>J5</b>	5	58	47	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Regeneration technology inadequate										
comnts Fmd : Low ridge within a large marsh; difficult access. If it becomes possible to harvest here, clearcut all trees, but some white & red pine may be left. 98=tamarack and white pine soil=Markey Mucky Peat & Deford-AuGres-Rubicon Deep Water Table complex										
<b>38</b>	<b>R6</b>	16	52	48	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Ridge in marsh; difficult access. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands nearby. If it becomes possible to harvest here, remove all jack pine and aspen, and thin the red and white pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PArV										
<b>39</b>	<b>R6</b>	8	52	48	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Ridge in marsh; difficult access. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands nearby. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red and white pine. 98=jack pine & white pine Soil=Deford-AuGres-Rubicon Deep Water Table Complex PArV										
<b>41</b>	<b>R6</b>	2	50	49	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Part of stands 118 & 24 in adjacent comp.119. Treat with these stands with the 2008 YOE. Cut all jack pine and aspen; thin red and white pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.										
<b>56</b>	<b>R6</b>	3	50	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Thin with stands 15 & 20 in C119 YOE 2008. Remove all jack pine and aspen; thin red and white pine. Ridges has red pine, white pine and blueberry; lower ground has aspen and taller shrubs. Soil=Deford-AuGres-Rubicon Deep Water Table Complex										

**SHINGLETON FOREST AREA**

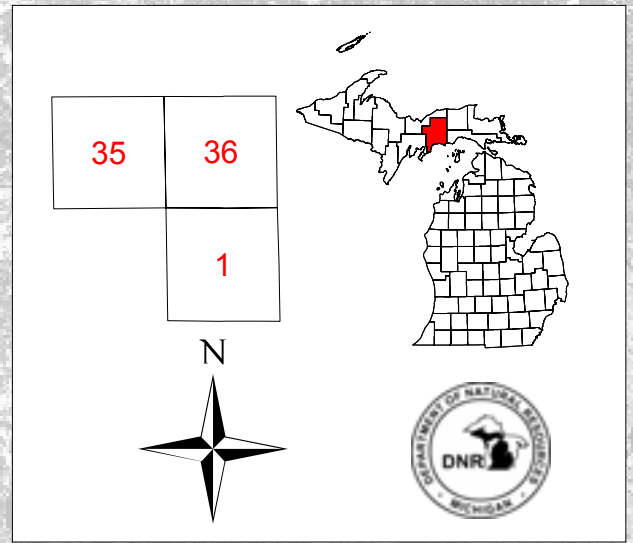
**Proposed Treatments  
With Limiting Factors**

**Compartment: 116**    Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>57</b>	<b>R6</b>	5	50	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Thin with stands 15 & 20 in C119 YOE 2008. Remove all jack pine and aspen; thin red and white pine. Ridges has red pine, white pine and blueberry; lower ground has aspen and taller shrubs. Soil=Deford-AuGres-Rubicon Deep Water Table Complex										
<b>76</b>	<b>J6</b>	3	58	48	jack pine	mature	final harvest	2	planting	
TREATMENT LIMITING FACTORS: Too wet Regeneration technology inadequate										
comnts Fmd : Small low, ridge in marsh, difficult access. Flat, low ground frequently flooded due to beavers; areas of dead trees. If possible, clearcut - may leave some RP & WP on higher ground. Soil=Deford-AuGres- Rubicon Deep Water Table Complex										
<b>77</b>	<b>R6</b>	3	47	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Too wet										
comnts Fmd : Narrow, flat ridge in large marsh; difficult access. Lower ground has more jack pine and aspen and taller shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands nearby. If it becomes possible to harvest here, remove all jack pine and aspen, and thin red pine where necessary. Soil=Deford-AuGres-Rubicon Deep Water Table Complex										
<b>Total Acres.....</b>		<b>177</b>								

# Field Map

Compartment 116  
T45N, R14W, Sec. 1  
T46N, R14W, Sec. 35, 36  
County: Schoolcraft  
Unit: Shingleton  
YOE: 2007  
Acres: 1,429 GIS Calculated  
Stand Examiner: Kristen Matson  
Map Revised: 10/03/2005  
Map Phase: Pre-review



**Legend**

- Miris Corners
- Railroads
- State Highway
- Stand Boundary
- 061 - Cleaning-weeding/Hand Tools
- 111 - Final Harvest/Planting/Hand Tools
- 400 - Thinning
- Name Water Features

