



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 115 ENTRY YEAR: 2009

Compartment Acreage: 1597 County: Schoolcraft

Revision Date: 11/19/07

Stand Examiner: K. Matson

Legal Description: T46N, R13W, Sec. 31, 32; T45N, R13W, Sec. 5, 6

RMU (if applicable):

Management Goals: To maintain the large opening complexes for a suite of wildlife species dependant upon this type of habitat; and to provide sustainable forest eco-system management.

Soil and Topography: The majority of the compartment is low, marshy ground with ridges of pine. The soil types for the ridges are mainly Deford-Rubicon mixes; while the soil types for the low ground are mainly drained Marky-Deford Mucks or Carbondale, Lupton and Tawas soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The Seney National Wildlife Refuge borders the south side of the compartment; the town of Seney is in the Northeast of the compartment, and the remainder of the compartment is bordered 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): Man-made ditches exist where swamp drainage was attempted for farming.

Special Management Designations or Considerations: HCVA - Fox River

Watershed and Fisheries Considerations: The Fox River is found on the eastern border of this compartment. The Fox River supports good natural reproduction of brook trout and provides excellent nursery habitat for young fish. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations: This compartment lies immediately south and west of the village of Seney. Important features include M-28 on the north the Fox River and M-77 on the east. Clark Ditch empties into Townline Ditch within this compartment. Pre-settlement data show tamarack and spruce as the dominant timber types within this area. A small amount of cedar was also present. Landforms higher above the water table appear to have contained red pine and red maple.

Likely due to lowering of the water table associated with Clark and Townline ditches, the current dominant forest species are red pine and jack pine.

The wildlife habitat management objectives for this compartment include protecting the lowland systems and providing age class and structural diversity between upland conifer stands.

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 area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access: The majority of the compartment is low, wet ground with large islands of pine trees, and is without roads.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: There are no developed DNR recreational facilities within the compartment; but the area is used for hunting.

Fire Protection: This compartment lies almost entirely within the Fox River Zone Dispatch Area. Lack of roads in most of the compartment 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: 115

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				25															25
Black Spruce						8													8
Grass	6																		6
Jack Pine			219	14		15													248
LowInd Brush	609																		609
LowInd Poplr				12		4													16
Mx Swmp Cnfr						10													10
Non Stocked	46																		46
Red Pine	9	20	33				369	167											598
Swamp Hrdwds																		10	10
White Pine							21												21
Total	670	20	252	51		37	390	167										10	1597

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Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

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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	25																										25
S Black Spruce		8																									8
G Grass					6																						6
J Jack Pine							248																				248
L LowInd Brush									609																		609
P LowInd Poplr										16																	16
Q Mx Swmp Cnfr												10															10
X Non Stocked													46														46
R Red Pine															598												598
E Swamp Hrdwds																				10							10
W White Pine																										21	21
Total	25	8			6		248		609	16		10	46		598				10							21	1597

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **115**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

TOTAL VOLUME		CUT VOLUME	
Hardwood	225 Cds	Softwood	185 Cds
Hardwood	4 Mbf	Softwood	16 Mbf
Softwood	3695 Cds	Sum CutVol	217 Cds
Softwood	1115 Mbf		
Sum TotVol	6158 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
1597		25	

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 115 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
20	R9	17	54	53	red pine	mature	shelterwood-seed	2	planting	
<p>comnts Fmd : Thinned apx. 1997. Aspen and b.spruce regeneration on the lower ground; pine regeneration in the old roads on the higher ground. Mark leave trees, choosing ones with large crowns, leaving 30-40 BA. Machine plant to regenerate stand. Red pine is the preferred regeneration species; but a mix including species currently on site will be acceptable. Soil=540D Deford-AuGres-Rubicon-Deep water table complex, 0-15% slopes</p> <p>Wld : For diversity, leave trees should be of various diameters. Protect existing spruce regeneration. Plant Oak after logging.</p>										
21	R0	9		50	red pine	in process of regeneration		0	planting	
<p>comnts Fmd : [8-25-06] 1116 red pine/acre were handplanted by Dept. of Corrections under FTP C41-922 - partial FTP completion dtd 6-16-06. Schedule survival check for 2007.</p> <p>[5/11/07 km] Survival check with D.Kuhr: zero planted trees were found (none either dead or alive). Don is planning to plant this stand in fall 07 or spring 08.</p> <p>Higher ground has blueberry/sedge; lower ground has thick sedge and tall brush.</p> <p>Soil=540D Deford-AuGres-Rubicon-Deep water table complex, 0-15% slopes</p> <p>Wld : Plant white pine and oak.</p>										
29	R0	20	7	52	red pine	in process of regeneration		0	planting	
<p>comnts Fmd : Cut under sale #032-99. FTP C41-922: no regeneration work was done.</p> <p>[5/11/07 km] Walk through regen check with D.Kuhr. Natural regen is sparse (aspen, red pine, jackpine); Don is planning to plant this stand in fall 07 or spring 08. Higher ground has blueberry; lower ground has thick sedge and tall brush.</p> <p>Soil=540D Deford-AuGres-Rubicon Deep water table complex 0-15% slopes</p> <p>Wld : Plant white pine and oak.</p>										
68	R9	8	57	50	red pine	mature	shelterwood-seed	2	planting	
<p>comnts Fmd : Thinned apx. 1994. Aspen regeneration in the flat areas. Mark leave trees, choosing ones with large crowns, leaving 30-40 BA. Machine plant to regenerate stand. Red pine is the preferred regeneration species, but a combination including other species on site will be acceptable. 98=jack pine, b.spruce and tamarack</p> <p>Soil=540D Deford-AuGres-Rubicon-Deep water table complex, 0-15% slopes</p> <p>Wld : For diversity, leave trees should be of various diameters. Protect existing spruce regeneration. Plant Oak after logging.</p>										
84	X0	25			other non-stocked or non-forest or non-productive	nonstocked		0	cleaning & weeding	
<p>comnts Fmd : M-28 ROW. Remove all scotch pine near Clark Ditch.</p>										
Total Acres.....		79								

**Proposed Treatments
With Limiting Factors**

Compartment: 115

Entry Year: 2009

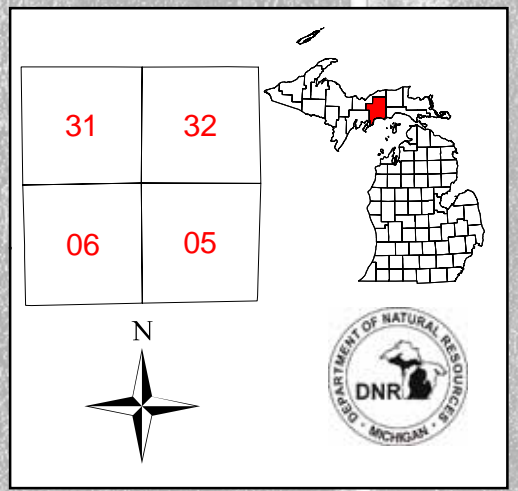
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 115
 T45N, R13W, Sec. 5, 6
 T46N, R13W, Sec. 31, 32
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2009
 Acres: 1,597 GIS Calculated
 Stand Examiner: Kristen Matson
 Map Revised: 12/07/2007
 Map Phase: Pre-review



Legend

- Miris Corners
- ▬ Highway, Gravel, County
- ▬ Paved, County
- ▬ Paved,
- ▬ Gravel,
- - Poor Dirt,
- - - Closed,
- ▭ Stand Boundary
- ▨ Biodiversity/Old Growth Area
- ▨ 015 - Planting/Mechanical, Other
- ▨ 061 - Cleaning - weeding/Hand Tools
- ▨ 316 - Shelterwood - seed/Planting

