



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 4 ENTRY YEAR: 2009

Compartment Acreage: 1,492 County: Schoolcraft

Revision Date: 11/30/2007

Stand Examiner: Jennifer Burnham

Legal Description: T45N R13W Sections 4, 5, 9, 16

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 mainly flat with the only real elevation in the NE corner. Two main soil types found in the compartment are Wallace sands, naturally low in fertility on the high ground and the low ground is made up of mucks and/or peat. The LTS's for this compartment are Seney Drainage in the NE part and Seney Channel Fens to the SW.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership within the compartment is all State Lands. East of the compartment is the Seney Wildlife Refuge with more State Lands to the West.

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): N/A

Special Management Designations or Considerations: East of the compartment is the Seney Wildlife Refuge. All stands west of the Fox River are considered biodiversity areas.

Watershed and Fisheries Considerations: The Fox River is found within this compartment. The Fox River supports good natural reproduction of brook trout and provides excellent nursery habitat for young fish and provides habitat for large, adult 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: Located south of Seney and east of M-77, this compartment is dominated by wetlands. The Fox River courses through the center of the compartment. A marsh/low pine ridge complex dominates the area lying between M-77 and the Fox River. During pre-settlement times, the uplands within this compartment supported a mix of primarily hemlock, white pine, red maple and red pine. The lowland forests were dominated by tamarack and spruce with an element of cedar, black ash and elm.

The current forest cover on the ridges, within the marsh complex, exhibits a substantial increase in red pine and a corresponding decrease in the amount of hemlock and white pine. The uplands in the northwest corner of the compartment contain substantially more aspen than than was found circa 1850. Lowland forests within this compartment appear similar in species composition to the pre-settlement times.

The wildlife habitat management regime consists of allowing for natural succession in the marsh/ridge complex, protecting the hydrology of the Fox River, promoting aspen age class diversity and enhancing species and structural diversity within the northern hardwoods.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 200 feet. The Ordovician Stonington Formation and Utica Shale subcrop below the glacial drift. The Stonington could be used for stone. Gravel pits at 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: M-77 is the boundary to the West with no real forest roads because of the amount of marsh area. County Road 456 allows good access to the high ground east of the Fox River.

Survey Needs: N/A

Recreational Facilities and Opportunities: The snowmobile trail follows County Road 456 in the compartment.

Fire Protection: Fire response to the area will be fast because of the close proximity to the Seney Field Office. There is more potential for a wildland fire during a very dry season.

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: 4

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				31	5		35			6									77
Black Spruce									23	6									29
Cedar								11											11
Grass	32																		32
Jack Pine									6	25									31
LowInd Brush	19																		19
Marsh	825																		825
Mx Swmp Cnfr								134											134
Non Stocked	8																		8
Paper Birch						20													20
Red Pine									17	88									105
Swamp Hrdwds								154											154
Treed Bog	39																		39
Upland Hdwds																		8	8
Total	923			31	5	20	35	299	46	125								8	1492

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 4

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	77																										77
S Black Spruce		29																									29
C Cedar				11																							11
G Grass					32																						32
J Jack Pine							31																				31
L Lowlnd Brush									19																		19
N Marsh											825																825
Q Mx Swmp Cnfr												134															134
X Non Stocked													8														8
B Paper Birch															20												20
R Red Pine																105											105
E Swamp Hrdwds																				154							154
D Treed Bog																							39				39
M Upland Hdwds	8																										8
Total	85	29		11	32		31		19		825	134	8		20	105				154		39					1492

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 4

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2965 Cds	Hardwood	1244 Cds
Hardwood	195 Mbf	Hardwood	5 Mbf
Softwood	3255 Cds	Softwood	49 Cds
Softwood	927 Mbf	Sum CutVol	1303 Cds
Sum TotVol	8464 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	43
	1492		

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 4

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
71	A6	35	52	65	aspen (upland)	mature	final harvest	1	cleaning & weeding		
<p>comnts Fmd : Stand has a good mix of spp. The terrain is hilly to flat and wet. There is an old two-track that will be usable for harvesting. Leave some large white pine. Use the edge trees and/or the spot in the middle of the stand where there is a patch of more unmerchantable trees for retention. 99 = mostly red maple and some spruce. There is also about a 3 acre patch of mainly fir in the SE corner. This should be treated with the stand.</p>											
75	M6	8		46	aspen (upland)	mature	final harvest	1	cleaning & weeding		
<p>comnts Fmd : Stand is in the center of the aspen stand 71. There is a pretty good amount of aspen in the stand mostly just becoming merchantable. The other is large over mature trees. The beech in the stand are all infected with scale. Final harvest the stand to convert to aspen. Save what yellow birch is present and some of the white pine and maybe white birch to meet retention guidelines.</p>											
Total Acres.....		43									

**Proposed Treatments
With Limiting Factors**

Compartment: 4

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



Compartment 04
 T45N, R13W, Sec. 4, 5, 9, 16
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2009
 Acres: 1,492 GIS Calculated
 Stand Examiner: Jennifer Burnham
 Map Revised: 11/06/2007
 Map Phase: Pre-review

Field Map

05	04
	09
	16



N

Legend

-  Miris Corners
-  Highway,
-  Gravel, County
-  Closed,
-  Water Features
-  Stand Boundary
-  Biodiversity/Old Growth Area
-  161 - Final Harvest/Cleaning - weeding Hand Tools

