



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 002 ENTRY YEAR: 2008

Compartment Acreage: 1254 County: Schoolcraft

Revision Date: 10/16/06

Stand Examiner: R. Tylka

Legal Description: T45N R13W Sections 2, 11 and 14

RMU (if applicable):

Management Goals: Management activities that coordinate multiple uses and benefits for the people of Michigan including recreation, timber production and protection/enhancement of wildlife habitat are desirable. The Fox River Plan provides guidance for protection of the Fox River and its tributaries by defining parameters for forest management treatments, etc.

Soil and Topography: The uplands generally feature rolling (sometimes steep) terrain and sandy soils such as Kalkaska and Wallace sands, while the lowlands feature a variety of flat, poorly-drained muck and peat soils such as the Carbondale-Lupton-Tawas soils group. Lowland terrain accounts for most of the area in this compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The Fox River Club owns a significant block of land within the Compartment. The area is heavily used for recreational purposes such as hunting and snowmobiling.

Unique, Natural Features (include only non-site specific and non-sensitive information):

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

Special Management Designations or Considerations: The Old Seney Road is both a county road and a designated snowmobile trail. The Fox River is a designated Natural River with an approved management plan.

Watershed and Fisheries Considerations: This compartment contains sections of the Dead Creek and Fox River which are important tributaries in the Manistique River system. The Fox River is a high quality trout stream. 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:

During pre-settlement times, the upland areas in this compartment supported a mixed deciduous/coniferous forest. The deciduous species of this forest consisted primarily of sugar maple, basswood, elm and beech, while hemlock was the dominant upland conifer. Lowland areas primarily supported coniferous swamps

containing tamarack, cedar, and spruce. The Fox River passes through the southern portion of this compartment. Lowland areas within this compartment appear to be similar to pre-settlement species composition. Upland areas show an increase in the aspen component and a corresponding decrease in sugar maple, basswood, elm, beech, hemlock, and white pine. The wildlife habitat management regime consists of protecting the hydrology along the Fox River, providing age and structural diversity between lowland conifer stands, and retaining light seeded species as well as den trees and soft mast (yellow birch catkins). Variable retention guidelines are being adhered to in stands scheduled for final harvest.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington and Big Hill Formations subcrop below the glacial drift. The Stonington and Big Hill could be used for stone/dolomite. Gravel pits are not found in the general area, but there may be some potential on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access: The Old Seney Road is a well-maintained county road.

Survey Needs: Land survey will be needed to facilitate timber sale activities in the SWSW of Section 11.

Recreational Facilities and Opportunities: The Old Seney Road is a designated snowmobile trail. No other improved facilities exist within this compartment.

Fire Protection. Due to the wet lowland terrain and soils, access to most of the compartment is 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: 2

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		17	51	38			7												113
Black Spruce							16			19									35
Cedar										183	10	16							209
Grass	8																		8
Hemlock											2								2
LowInd Brush	35																		35
LowInd Poplr		77																	77
Marsh	21																		21
Mx Swmp Cnfr		4									174	60							238
Non Stocked	7																		7
Red Pine									12										12
Swamp Hrdwds																		219	219
Treed Bog	105																		105
Upland Hdwds									34		9							102	145
Water	21																		21
White Pine								7											7
Total	197	98	51	38			23	7	46	202	195	76						321	1254

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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: 2

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	106																								7		113
S Black Spruce		35																									35
C Cedar				209																							209
G Grass					8																						8
H Hemlock						2																					2
L Lowlnd Brush									35																		35
P Lowlnd Poplr										77																	77
N Marsh											21																21
Q Mx Swmp Cnfr												238															238
X Non Stocked													7														7
R Red Pine															12												12
E Swamp Hrdwds																				219							219
D Treed Bog																							105				105
M Upland Hdwds																								145			145
Z Water																									21		21
W White Pine																										7	7
Total	106	35		209	8	2			35	77	21	238	7		12					219		105		152	21	7	1254

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 2

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	6467 Cds	Hardwood	779 Cds
Hardwood	217 Mbf	Hardwood	66 Mbf
Softwood	7568 Cds	Softwood	2579 Cds
Softwood	411 Mbf	Softwood	130 Mbf
Sum TotVol	15291 Cds	Sum CutVol	3750 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	180
1254			

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 2

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
11	Q6	32	95	45	mixed swamp conifer	mature	final harvest	2		
comnts Fmd : HCVA - Fox River Plan Soils - Carbondale, Lupton and Tawas - mucks and peat Natural disturbance is creating a mosaic of age classes in this stand, but cedar will probably dominate over time. Harvest now and regenerate naturally - a mix of any commercial timber species will be considered acceptable regeneration. Buffer the river in accordance with the Fox River Plan, and watch out for unmapped tributaries to Dead Creek that may also need to be buffered. Retention guidelines - Do not cut any hemlock, and retain enough cedar and submerchantable conifers to provide approximately 8-10% cover for the stand area. This includes advanced regeneration found in the the Q3 understory, which should be protected whenever possible. Wld : The habitat goal for this stand is to provide regenerating lowland conifers while the enhancing cedar and hemlock component. Leave 8-10% of the acreage in blocks for cedar regeneration. Do not cut hemlock										
18	Q6	62	95	45	mixed swamp conifer	mature	final harvest	2		
comnts Fmd : HCVA - Fox River Plan Soils - Carbondale, Lupton and Tawas - mucks and peat Natural disturbance is creating a mosaic of age classes in this stand, but cedar will probably dominate over time. Harvest now and regenerate naturally - a mix of any commercial timber species will be considered acceptable regeneration. Retention guidelines - Do not cut any hemlock, and retain enough cedar and submerchantable conifers to provide approximately 8-10% cover for the stand area. This includes advanced regeneration found in the the Q3 understory, which should be protected whenever possible. Wld : The habitat goal for this stand is to provide regenerating lowland conifers while enhancing cedar and hemlock regeneration. Leave 8-10% of the acreage in blocks for cedar regeneration. Do not cut hemlock										
32	Q6	57	106	29	mixed swamp conifer	mature	final harvest	1		
comnts Fmd : HCVA - Fox River (due to possible drainages into the Fox River.) Soils - Carbondale, Lupton and Tawas - mucks and peat Ready to harvest and regenerate naturally - all commercial tree species are acceptable regeneration. To meet retention guidelines, retain all hemlock and leave-tree mark some defective or low quality yellow birch (14" plus DBH) for wildlife; also emphasize protecting the advanced regeneration in the Q3 understory whenever possible. During timber sale prep, watch out for unmapped drainages through this stand that may require buffering in accordance with the Fox River Plan. See the adjacent S6 stand in Cmp 003 (#047) which is also ready to cut. Wld : The habitat goal for this stand is to provide regenerating lowland conifers while maintaining wildlife den trees, providing budding (and catkins) food source, and enhancing the hemlock component. Leave some old yellow birch and all hemlock when cutting this stand.										
36	A6	7	51	60	northern hardwood	mature	final harvest	1	natural regeneration	
comnts Fmd : Soils - McMillan-Greylock fine sandy loams at 1-6% slopes Originally included as part of the surrounding hardwood stand, this aspen is now ready to harvest - evidence of breakup is present. Follow the harvest with TSI of residual poor quality hardwoods & aspen to assure proper aspen regeneration, but DO NOT cut serviceberry or residual conifers. A mix of aspen, hardwoods and conifers will be considered acceptable regeneration. To meet stand retention guidelines, do not cut any conifers less than 6" DBH, and protect any pine, balsam fir or spruce regeneration. The stand's year of origin as shown is an approximation based on several trees, but there is some age variation present. Mixed pulpwood includes a variety of hardwoods plus spruce and balsam fir. Wld : Leaving residual conifers within this stand will provide within stand habitat diversity and well as meeting the variable retention guidelines.										
54	Q6	22	96	40	mixed swamp conifer	mature	final harvest	3		
comnts Fmd : Soils - Carbondale, Lupton and Tawas - mucks and peat Mixed sawlogs include very large (20" + DBH) white pine & scattered yellow birch; mixed softwood pulp represents balsam fir, black spruce and hemlock. Ready to harvest and regenerate naturally - all commercial tree species are acceptable regeneration. To meet retention guidelines, do not cut hemlock or white pine and leave-tree mark some defective or low quality yellow birch (14" plus DBH) for wildlife. Protect the advanced regeneration in the Q3 understory whenever possible. Wld : The habitat goals for this stand include providing super-canopy conifers, potential den trees, and budding (catkin) food sources. Leave enough white pine and yellow birch to meet retention guidelines.										
Total Acres.....		180								

**Proposed Treatments
With Limiting Factors**

Compartment: 2

Entry Year: 2008

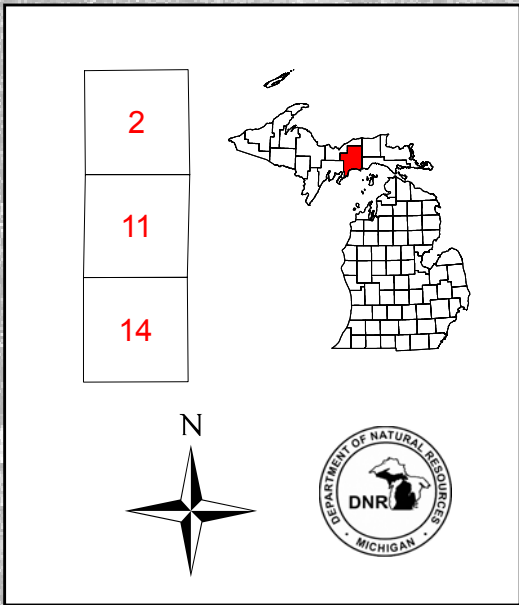
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 2
 T45N, R13W, Sec. 2, 11, 14
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2008
 Acres: 1,254 GIS Calculated
 Stand Examiner: Robert Tylka
 Map Revised: 10/27/2006
 Map Phase: Pre-review



Legend

- County Gravel Roads
- Trails
- Water Features
- Snowmobile Trails
- Stand Boundary
- Biodiversity/Old Growth Areas
- 100 - Final Harvest
- 141 - Final Harvest/Natural Regeneration/Hand Tools

