



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 001 ENTRY YEAR: 2007

Compartment Acreage: 1043

County: SCHOOLCRAFT

Revision Date: October 5, 2005

Stand Examiner: Robert Tylka

Legal Description: T45N R13W Sections 1, 12 and 13

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.

Soil and Topography: This area typically displays flat to gently rolling terrain, and most of this compartment features upland habitat on sandy soils including Kalkaska sand, Liminga fine sand, and Graveraet very fine sandy loam. The lowland areas are generally on either muck soils or peat. The most commonly occurring habitat types are AFPO (sugar maple-beech/hairy Solomon's seal) and ATFD (sugar maple-hemlock-beech/shield fern) which account for the dominance of northern hardwoods throughout most of the compartment. These habitat types are known to produce high-quality wood products of all tree species, but require major disturbance to keep them from reverting to the hardwoods.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

There are numerous hunting camps on the private lands in and adjacent to this compartment. State-owned lands consist of 3 separate blocks of 40, 160, and approx. 843 acres. All are contiguous to state-owned lands in Compartment 2 to the west.

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: Due to this area's proximity to the Fox River, proper use of all BMP's associated with flowing water are critical.

Watershed and Fisheries Considerations: This compartment has an un-mapped drainage that does appear to have continuous flow throughout the year, indicating inputs of groundwater. Additionally, this drainage flows into the Fox River, a designated Natural River. The Fox River system supports a very good brook trout population. The Fox is currently stocked with brook trout, but recent fisheries surveys indicate that significant natural reproduction is occurring and that suspension of stocking may be instituted to determine if the brook trout population can support itself through natural reproduction. Small streams and drainages such as this un-named drainage are important in regards to preserving water quality to larger streams and rivers,

such as the Fox. Protecting the river systems from inputs of sediment is crucially important. BMP's should be followed.

Wildlife Habitat Considerations: This compartment lies southeast of Seney. During pre-settlement times, sugar maple appeared to be the most abundant tree species in the upland forest. Beech, hemlock, basswood, and American elm were common, while yellow birch, red maple and balsam fir appeared to be minor components in the sugar maple forest. Tamarack, spruce and cedar dominated the lowland areas. Lowland areas within this compartment appear to be similar to pre-settlement species composition. Upland areas remain dominated by northern hardwood stands. However, the species composition of those stands has shifted from a heterogeneous mixture of hardwoods and conifers to a system dominated by sugar maple. The amount of hemlock and beech in those stands appears to have been reduced. Additionally, red pine plantations and aspen of various ages now occur across a fair portion of this compartment. Although current prescriptions do not include operating in the hardwood stands, wildlife objectives for future activities would include restoring structural and species diversity to those stands. Additionally, the red pine plantations within this compartment contain substantial amounts of hardwood regeneration. Through rotational thinnings, these stands will eventually revert to diverse northern hardwoods containing super-canopy red pine. Maintaining age class diversity between the aspen stands and promoting mast-bearing tree and shrub species are also important habitat goals.

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 and Queenston Shale 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: Most of the compartment is easily accessible by woods roads that connect to the Old Seney Road (Co. Rd. 450), which also passes through the southernmost block of 160 acres in section 13. The woods road network also connects directly to Highway M-28 to the north.

Survey Needs: Approximately 1/4 mile of private boundary line is needed along the west side of the SWSW section 13 to facilitate timber sale layout.

Recreational Facilities and Opportunities: The Old Seney Road is a groomed and well-used snowmobile trail, and this area also receives heavy hunting pressure. There are no other improved recreational facilities within this compartment.

Fire Protection: The existing road network provides good access to most of the state lands, which generally feature relatively low-risk fuel types such as northern hardwoods and aspen. There are numerous open areas of grass and upland brush throughout the compartment. The adjacent private lands feature low, wet terrain that could prove challenging, both for access and their more hazardous conifer fuel types.

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: 1

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			50	66		1	9												126
Black Spruce										30		12							42
Bog or Marsh	18																		18
Cedar										8		2			49				59
Grass	34																		34
Mx Swmp Cnfr									4	6								4	14
Non Stocked	5																		5
Red Pine					81														81
Swamp Hrdwds									12										12
Tamarack								2											2
Treed Bog	9																		9
Upland Brush	19																		19
Upland Hdwds			3															619	622
Total	85		53	66	81	1	9	2	16	44		14			49			623	1043

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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: 1

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	126																										126
S Black Spruce		42																									42
V Bog or Marsh			18																								18
C Cedar				59																							59
G Grass					34																						34
Q Mx Swmp Cnfr												14															14
X Non Stocked													5														5
R Red Pine																81											81
E Swamp Hrdwds																				12							12
T Tamarack												2															2
D Treed Bog																							9				9
U Upland Brush																								19			19
M Upland Hdwds																								622			622
Total	126	42	18	59	34							16	5			81				12		9	19	622			1043

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 1

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8282 Cds	Hardwood	346 Cds
Hardwood	825 Mbf	Hardwood	6 Mbf
Softwood	4135 Cds	Softwood	1244 Cds
Softwood	151 Mbf	Sum CutVol	1602 Cds
Sum TotVol	14369 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	106
1043			

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 1

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
16	R6	42	37	66	red pine	immature	thinning	1		prescribed for fdf treatment
comnts Fmd : FDF. THIN ASAP by removing every third row where applicable, and also salvage poorly formed trees, porcupine damage, etc. from the remaining rows. The logs are about 12-14" diameter, while the poles are mostly about 7-9". The other volume shown consists of scattered red maple and aspen.										
17	R6	27	37	66	red pine	immature	thinning	1		prescribed for fdf treatment
comnts Fmd : FDF. THIN ASAP by removing every third row where applicable, and also salvage poorly formed trees, porcupine damage, etc. from the remaining rows. The logs are about 12-14" diameter, while the poles are mostly about 7-9". The other volume shown consists of scattered red maple and aspen.										
21	R6	12	37	66	red pine	immature	thinning	1		prescribed for fdf treatment
comnts Fmd : FDF. THIN ASAP by removing every third row where applicable, and also salvage poorly formed trees, porcupine damage, etc. from the remaining rows. The logs are about 12-14" diameter, while the poles are mostly about 8-10". Remove scattered aspen and hardwoods.										
33	A6	9	50	65	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : READY TO CUT- Aspen stand that includes some mixed lowland timber. Acceptable regeneration includes all conifers, lowland hardwoods, aspen and birch.										
39	S6	2	80	35	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Blowdown and break-up are becoming more evident - harvest now. Acceptable regeneration includes all conifers, lowland hardwoods, aspen and birch.										
43	Q6	6	80	40	mixed swamp conifer	mature	final harvest	2		
comnts Fmd : This stand is a mix of conifers and hardwoods on a transitional site between the upland hardwoods and the cedar. The year of origin is a reasonable estimate of the age of most of the stand's components, but the hemlock and larger yellow birch (13-16" DBH) are almost certainly older. The understory varies from pure balsam fir to a diverse mix of hardwoods and conifers. Harvest now. Do not cut hemlock or cedar. Acceptable regeneration includes all conifers, lowland hardwoods, aspen and birch.										
44	T6	2	60	46	mixed swamp conifer	mature	final harvest	2		
comnts Fmd : Breaking up and blowing down - harvest now. Listed here as a conversion to a lowland conifer mix, but tamarack is likely to become a major component of the next stand. Acceptable regeneration includes all conifers, lowland hardwoods, aspen and birch.										
45	C6	2	105	30	cedar	immature	final harvest	2		
comnts Fmd : A few hardwoods and balsam fir are also present, especially in the understory. Unevenaged characteristics are developing. Harvest now. Acceptable regeneration includes all conifers, aspen and birch.										
47	Q6	4	70	40	mixed swamp conifer	mature	final harvest	2		
comnts Fmd : This stand is a mix of conifers and hardwoods on a transitional site between the upland hardwoods and the cedar. The year of origin is a reasonable estimate of the age of most of the stand's components, but the hemlock and larger yellow birch (13-16" DBH) are almost certainly older. The understory varies from pure balsam fir to a diverse mix of hardwoods and conifers. Harvest now. Acceptable regeneration includes all conifers, lowland hardwoods, aspen and birch.										
Total Acres.....		106								

**Proposed Treatments
With Limiting Factors**

Compartment: 001

Entry Year: 2007

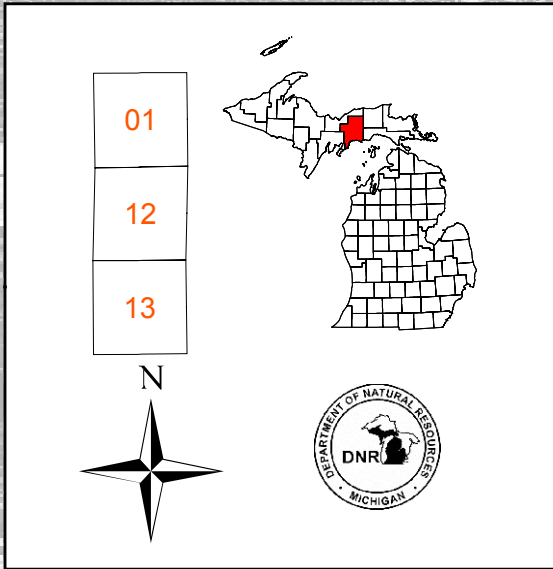
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 1
 T45N, R13W, Sec. 1, 12, 13
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2007
 Acres: 1,043 GIS Calculated
 Stand Examiner: Robert Tylka
 Map Revised: 9/30/2005
 Map Phase: Pre-review



Legend

- ✗ GPS Corners
- Gravel Roads
- - - Poor Dirt Roads
- Water Features
- Stand Boundary
- ▨ 100 - Final Harvest
- ▩ 141 - Final Harvest/Natural Regeneration/Hand Tools
- ▧ 400 - Thinning

Name Gravel Roads

