



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 010 ENTRY YEAR: 2008

Compartment Acreage: 580 County: Schoolcraft

Revision Date: 10/16/06

Stand Examiner: R.Tylka

Legal Description: T44N R14W Sections 25 and 36

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: The terrain varies significantly from rolling, sandy uplands featuring pine types on fine sands down to flat bottomlands with wetland cover types on soils displaying impeded drainage. The sandy uplands generally have high-to-very high site indices for the pine types.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There are privately-owned parcels of land along the Manistique River in the south end of this compartment where several hunting camps are located. The state-owned lands have been managed intensively for timber production with the exception of the bottomlands along the Manistique River – in the past these have been recommended for designation as Potential Old Growth.

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: Potential Old Growth along the river corridor.

Watershed and Fisheries Considerations: This compartment contains the Manistique River (warm-water). Encroachment by beaver is a concern in the cold-water tributaries of the Manistique River. Additionally, 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 on the east side of the Manistique River off the southeast corner of the Seney National Wildlife Refuge. Uplands, away from the river are dominated by jack pine and red pine. Lowland forests contain a mixture of spruce, cedar and tamarack. Closer to the river, northern hardwood and aspen are more prevalent. Wildlife habitat goals include maintaining a closed canopy corridor along the Manistique River, protecting the river and associated oxbow wetlands, and

promoting tree species and structural diversity within the compartment. Variable retention principles will be utilized.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Queenston Shale and the Big Hill Dolomite subcrop below the glacial drift. The Big Hill could be used for stone. There are no gravel pits in the area, but there might be some potential. There is no commercial oil and gas production in the UP.

Vehicle Access: Excellent access to the uplands, but limited through the low wet areas.

Survey Needs: To facilitate timber harvest and reforestation both this year of entry and in 2018, the corners and section line between section 36 of T44N R14W and Section 31 of T44N R13W is needed.

Recreational Facilities and Opportunities: The area receives moderate to heavy hunting pressure. There are no developed recreational facilities in this compartment.

Fire Protection. Access is generally good for fire suppression. Jack pine is a significant component in this compartment and the surrounding area.

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: 10

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			24	1															25
Black Spruce					5		8	19											32
Bog or Marsh	1																		1
Cedar									14	37									51
Grass	8																		8
Jack Pine			103		4			2		4									113
Lowlnd Brush	26																		26
Marsh	18																		18
Mx Swmp Cnfr			43						8									23	74
Non Stocked	14																		14
Red Pine							6		108		15								129
Swamp Hrdwds																		6	6
Treed Bog	16																		16
Upland Hdwds																		42	42
Water	25																		25
Total	108		170	1	9		14	21	130	41	15							71	580

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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: 10

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		32																									32
V Bog or Marsh			1																								1
C Cedar				51																							51
G Grass					3		5																				8
J Jack Pine							113																				113
L Lowlnd Brush									26																		26
N Marsh											18																18
Q Mx Swmp Cnfr												74															74
X Non Stocked													14														14
R Red Pine															129												129
E Swamp Hrdwds																				6							6
D Treed Bog																							16				16
M Upland Hdwds																								42			42
Z Water																									25		25
Total	25	32	1	51	3		118		26		18	74	14		129				6			16		42	25		580

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 10

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	866 Cds	Hardwood	135 Cds
Hardwood	35 Mbf	Softwood	130 Cds
Softwood	2252 Cds	Softwood	1 Mbf
Softwood	547 Mbf	Sum CutVol	267 Cds
Sum TotVol	4282 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
580		20	

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 10

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	M6	8		80	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Soils - Rousseau fine sands 0-15% slopes Select cut and manage for uneven-age hardwoods. Most of the pine and aspen are found on the fringes of the stand; the pine may be thinned as needed, and converting the fringe to aspen is acceptable.</p> <p>Wld : The habitat goal for this stand is to provide a structurally diverse system by maintaining the red pine component and regenerating the aspen component. Leave Red Pine and clearcut the aspen clones.</p>										
13	J6	4	83	52	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Soils - Neconish fine sand and/or Wainola loamy sand with Kinross muck in the lower spots Ready to cut ASAP. Do not cut hemlock or red & white pine. Any mix of commercial species is acceptable for regeneration, so the S3 understory should be protected as much as possible.</p> <p>Wld : Structural diversity will be maintained through the retention of red pine, white pine, and hemlock</p>										
37	R9	1	71	60	red pine	immature	thinning	6		
<p>comnts Fmd : Soils - Spot-Finch sands at 0-3% slope [6-19-05] JS Residual BA updated to show 50 sqft of RP [9-15-06] Under contract TS # 011-05 Just Off The Road.</p>										
40	S5	7	65	60	black spruce-swamp	mature	final harvest	6	natural regeneration	
<p>comnts Fmd : Soils - Neconish-Wainola-Kinross complex - a mix of fine sands, sandy loam and muck soils at 0-6% slopes. LEAVE SOME RP FOR AESTHETICS SCARIFY AREAS W/O ADVANCED REPRODUCTIO [6-17-05] JS Updated partial cut record to show 5 sqft of BA left in Red Pine [9-15-06] Under contract TS # 011-05 Just Off The Road.</p>										
402	G0	5			jack pine	in process of regeneration		0	planting	
<p>comnts Fmd : Soils - Rousseau-Neconish-Finch Complex (sand to fine sands) at 0-25% slopes This area was forested before harvest during the early 90-'s- now an open hillside with ferns but very few trees. Reforest by handplanting jack pine.</p> <p>Wld : Review of old photos and maps show this stand had been heavily forested with jack pine. WLD agrees with the prescription to regenerate this stand.</p>										
Total Acres.....		25								

SHINGLETON FOREST AREA

**Proposed Treatments
With Limiting Factors**

Compartment: 10

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
73	R7	5	96	45	red pine	mature		0	other - specify in remarks	

TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity

comnts Fmd : Soils - Neconish fine sand and/or Wainola loamy sand
THINNED TCR 6/15/99 SALE #38-98-02.

YOE 2008 - Hold the overstory while the red pine regen (currently about 8-18" tall) is becoming fully established. Perform regen survey to identify gaps with insufficient regen and handplant red pine to fill them in. This will require writing a new FTP.

Total Acres..... 5

