



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 36 ENTRY YEAR: 2008

Compartment Acreage: 967

County: Schoolcraft

Revision Date: 10/16/2006

Stand Examiner: Adam Petrelius

Legal Description: T43N R16W Sections 3, 10, 14, 15

RMU (if applicable):

Management Goals: The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and Topography: The topography in this compartment is mostly flat. The hardwood forest types, located in the central portion of the compartment, have some rolling hills. Forest cover types are mixed between aspen, hardwood, and spruce. The major soil types found within the compartment are Carbondale-Lupton-Tawas and Rubicon Sand. The major habitat types within the compartment are PArVAa, unclassified wetland, PArV, PVE, PArVAa, and AFPO. Most of the compartment lies within the Hiawatha Moraine Land Type Association. Portions of the compartment also contain the Channel Fens South Land Type Association.

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

State land within this compartment was acquired around 1939. There is an island owned by the state, located on Island Lake, which was acquired in 1970. About half of the compartment is bordered by State land, and the rest borders private parcels.

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

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations: There are no Special Conservation Areas located within the compartment.

Watershed and Fisheries Considerations: Stutts Creek and its drainages are found within this compartment and are classified as warm-eater. 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. Ghost Lake and Kelper Lake are shallow lakes with little recreational value. However, they are important for providing habitat for small fish, mammals, and waterfowl that utilize them, and thus should be protected.

Wildlife Habitat Considerations: This compartment contains a number of small lakes and streams including Ashford Lake, Ghost Lake, Kepler Lake, and Southside creek. The General Land Office surveyors

noted the circa 1850 forest in this compartment was primarily northern hardwoods with a strong conifer component. Tree species mentioned most often in their notes included hemlock, sugar maple, beech, yellow birch, white pine, and balsam fir. Basswood was also noted to a lesser extent. Swamp conifer stands were dominated by spruce. While there is still a strong component of northern hardwoods within this compartment, aspen has become the most prevalent cover type in the uplands. Spruce continues to dominate the lowlands. The wildlife management objective for this compartment is to promote the age class and structural diversity between aspen stands, maintain the closed canopy conifer around Ashford Lake, and enhance a small grassy area north of Ashford Lake. Variable retention principles will be utilized.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured till and peat & muck. There is up to 200 feet or there is insufficient data to determine the glacial drift thickness. The Ordovician Queenston Shale and Stonington and Big Hill Formations subcrop below the glacial drift. The Stonington and Big Hill could be used for stone/dolomite. A clay pit is located in Section 14 and a gravel pit is located in Section 24, and there appears to be potential. There is no commercial oil and gas production in the UP.

Vehicle Access: Numerous roads are located within the compartment. These include plowed County Roads and forest roads. Most of the compartment is upland and has seen some timber sale activity in the past.

Survey Needs: None needed.

Recreational Facilities and Opportunities: A boat launch is located on Ashford Lake and lies within compartment boundaries. This launch is suitable for smaller boats and canoes. This compartment contains an old ski trail that is not maintained. Opportunities for hunting and other outdoor recreation activities are also present.

Fire Protection: Response time to fires within this compartment will be moderate to high. The compartment is located approximately half way between the Shingleton and Thompson offices. A well established road system is present, and the compartment is within ¼ mile of a State Highway M94. Most of the compartment is upland and there are a lot of available sources of water.

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: 36

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		34	189		158			57	29										467
Black Spruce								152											152
Cedar								6											6
Grass	3																		3
Marsh	17																		17
Mx Swmp Cnfr				55					3										58
Red Pine								4											4
Swamp Hrdwds			8																8
Treed Bog	3																		3
Upland Hdwds						6												174	180
Water	25																		25
White Pine				6				17	6	13		2							44
Total	48	34	197	61	158	6		236	38	13		2						174	967

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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: 36

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	467																										467
S Black Spruce		152																									152
C Cedar				6																							6
G Grass					3																						3
N Marsh											17																17
Q Mx Swmp Cnfr												58															58
R Red Pine															4												4
E Swamp Hrdwds																			8								8
D Treed Bog																							3				3
M Upland Hdwds																								180			180
Z Water																									25		25
W White Pine																									44	44	
Total	467	152		6	3						17	58			4				8			3		180	25	44	967

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **36**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7150 Cds	Hardwood	2577 Cds
Hardwood	330 Mbf	Hardwood	9 Mbf
Softwood	3208 Cds	Softwood	248 Cds
Softwood	166 Mbf	Softwood	23 Mbf
Sum TotVol	11350 Cds	Sum CutVol	2889 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
967		124	

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 36

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
10	W6	13	86	60	white pine	immature		0	other - specify in remarks	
comnts Fmd : Ashford Lake Buffer. DNR owned public access site is located within stand. Stand is a mixture of white pine and hemlock poles and logs.										
Comments from previous year of entry stated to fell 10 hemlock trees into lake for fisheries. This was never completed. Fisheries division still wants this completed. Wildlife division would prefer that white pine be cut if possible. Stand could possibly be used as a chainsaw training opportunity for DNR employees.										
An FTP should be created to accomplish this.										
16	M6	15		56	northern hardwood	unevenaged	selection	2		
comnts Fmd : Thinned in 1991.										
Stand is ready to harvest again. Stand has a thick understory of hardwood from previous harvest which should be protected.										
Retention Guidelines: Leave all snags that do no pose a safety risk. Do not cut hemlock and oak. Stand is mostly a mixture of hard and soft maple. Marking should include the retention of the following : conifers, under-represented species, live cavity trees, mast trees, and supercanopy trees.										
19	W6	6	68	45	white pine	immature	thinning	1		
comnts Fmd : Stand is mostly white pine with some aspen. Stand should be managed for white pine due to the large amounts of aspen present in the compartment. Thin red and white pine. Basal area should be left high enough to shade any aspen from resprouting.										
Retention Guidelines: Leave all snags that do no pose a safety risk. Do not cut hemlock and oak. Leave a mixture of white pine and red pine poles, logs, and supercanopy trees.										
22	A6	29	68	70	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : Aspen stand with decent amount of red pine, white pine, and some jack pine. Pine regeneration should be protected in timbersale specs. Mark red pine and white pine to cut. Alternative acceptable management objectives include any species mixture currently found on site.										
Greenup guidelines: The southern border of stand is adjacent to a timbersale which has not been harvested. This may cause problems satisfying greenup requirements.										
Retention Guidelines: Leave all snags that do no pose a safety risk. Do not cut hemlock and oak. Leave some red pine and white pine poles and supercanopy trees.										
32	A6	57	66	72	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : Nice quality aspen stand. High stocking and large diameter trees. Acceptable alternative management objectives include any species mixture currently found onsite.										
Retention Guidelines: Leave all snags that do no pose a safety risk. Do not cut hemlock and oak. Mark to leave some large supercanopy red pine and white pine.										
34	W6	13	62	47	white pine	immature	thinning	2		
comnts Fmd : Stand is variable with pockets of white pine, red pine, and aspen. Stand should be thinned and managed for pine. Buffer on Ghost Lake should be 100 feet from waters edge. Pine should be left at higher densities along the lake edge.										
Retention Guidelines: Leave all snags that do no pose a safety risk. Do not cut hemlock and oak. Leave a mixture of red pine and white pine poles, logs, and supercanopy trees.										
44	W6	4	62	45	white pine	immature	thinning	2		
comnts Fmd : Small pocket of white pine and older aspen in the middle of a younger aspen stand. Stand should be managed for white pine. Some white pine should be marked where thicker densities exist.										
Retention Guidelines: Leave all snags that do no pose a safety risk. Do not cut hemlock and oak. Leave a mixture of white pine and red pine poles, logs, and supercanopy trees.										
411	G0	2			grass	nonstocked		0	opening maintenance	
comnts Fmd : Small grass stand. A lot of lichen are present and trees are encroaching from edges. Stand scheduled for opening maintenance with handtools.										
Total Acres.....		139								

**Proposed Treatments
With Limiting Factors**

Compartment: 36

Entry Year: 2008

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 36
 T43N, R16W, Sec. 3, 10, 14, 15
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2008
 Acres: 1,006 GIS Calculated
 Stand Examiner: Adam Petrelus
 Map Revised: 10/24/2006
 Map Phase: Pre-review

03
10
15
14



Legend

- RLS Corners
- Miris Corners
- Highway
- County Paved Roads
- County Gravel Roads
- Closed Roads
- Poor Dirt Roads
- Water Features
- State Highway
- Stand Boundary
- 021 - Opening Maintenance/Hand Tools
- 091 - Other/Hand Tools
- 141 - Final Harvest/Natural Regeneration/Hand Tools
- 400 - Thinning
- 800 - Selection

