



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 35 ENTRY YEAR: 2007

Compartment Acreage: 1626 County: Schoolcraft

Revision Date: 9/15/2004

Stand Examiner: Adam Petrelius

Legal Description: T43N R16W Sections 1,2,11,12,13

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 to slightly rolling. A wide variety of soil types are located within the compartment and support high quality hardwoods, mixed pine, and lowland conifer species. The major soil types found within the compartment, in order of abundance, are Carbon-Lupton-Tawas Mucks, Markey Mucky Peat, and Pelkie. The major habitat types within the compartment, in order of abundance, are Unclassified Wetland, AFPO, and PVE. Most of the compartment lies within the Stutts Creek Sands Land Type Association. Other Land Type Associations found within the compartment are the Hickey Creek Peatlands and Hiawatha Moraine.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Adjacent ownership along the compartment boundary is a mixture of both private and state land. Numerous camps and permanent residences are located along the southwest portion of the compartment boundary. State land within this compartment was acquired between 1927 and 1951. Most of the land was either tax reverted or purchased, but some was exchanged with both private individuals and the Federal Government.

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: Approximately 53 acres located in the northeast corner of the compartment is Potential Old Growth, and is classified as a Special Conservation Area.

Watershed and Fisheries Considerations: Stutts Creek is found in this compartment and is classified as warm-water although brook trout can be found in this system. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

Wildlife Habitat Considerations: This compartment is located in central Schoolcraft County and lies to the north of M-94. Stutts Creek traverses the area from northwest to southeast. A large portion of the compartment is lowland. Early surveyors recorded finding hemlock, white pine, sugar maple, beech, aspen,

yellow birch, and basswood in the uplands. Lowland forests were characterized by spruce, tamarack, fir, and cedar. Today's lowlands appear to be fairly similar in species composition to the circa 1850 forests. In the uplands there seems to have been a reduction of hemlock and white pine, and an expansion of jack pine, red pine, and aspen. Wildlife habitat objectives include regenerating cedar, protecting the Stutts creek corridor, promoting hemlock, enhancing species diversity within hardwood stands, and maintaining aspen as a component within the compartment.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel, coarse-textured till and peat and muck. There is up to 200 feet or 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. A clay pit is located in Section 13, sand and gravel pits are in the area and potential appears to be good on the uplands. There is no commercial oil and gas production in the UP, but a new location was staked seven miles to the southwest.

Vehicle Access: Vehicle access is fair within the compartment. Portions of the compartment are located within ¼ mile of M-94, and Southside Road, a County Road, travels through the compartment. A lot of the forest roads within the compartment are accessed through private land, and much of the compartment is lowland which lacks forest roads.

Survey Needs: Stands 77, 37, 75, and 45 will need some survey work.

Recreational Facilities and Opportunities: There are no recreational facilities within this compartment. Recreational opportunities include hunting, fishing, berry picking, hiking, and riding ORV's.

Fire Protection: Fire response times to this compartment will be moderate to fast. The absence of forest roads will make fire operations difficult in some areas. Numerous structures are located surrounding the compartment boundary. A lot of potential water sources are also available.

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: 35

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		7	49	12					3										71
Black Spruce							83	3	69										155
Cedar									13		216								229
Grass	6																		6
Hemlock													5	5					10
Jack Pine		48	29				4												81
Lowlnd Brush	73										73								146
Marsh	188																		188
Mx Swmp Cnfr		51	71	24					114										260
Non Stocked	18																		18
Paper Birch							1												1
Red Pine								17	28	33								36	114
Spruce Fir		24						10											34
Swamp Hrdwds		9					1	16		8									34
Tamarack							38		80										118
Treed Bog	85																		85
Upland Hdwds									23		6							34	63
Water	5																		5
White Pine													8						8
Total	375	139	149	36			127	46	330	41	295		13	5				70	1626

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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: 35

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	71																										71
S Black Spruce		155																									155
C Cedar				229																							229
G Grass					6																						6
H Hemlock						10																					10
J Jack Pine							81																				81
L LowInd Brush									146																		146
N Marsh											188																188
Q Mx Swmp Cnfr												260															260
X Non Stocked													18														18
B Paper Birch															1												1
R Red Pine																114											114
F Spruce Fir																			34								34
E Swamp Hrdwds																				34							34
T Tamarack																						118					118
D Treed Bog																							85				85
M Upland Hdwds	8																							55			63
Z Water																									5		5
W White Pine																										8	8
Total	79	155		229	6	10	81		146		188	260	18		1	114			34	34	118	85		55	5	8	1626

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **35**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2650 Cds	Hardwood	464 Cds
Hardwood	193 Mbf	Hardwood	37 Mbf
Softwood	9536 Cds	Softwood	364 Cds
Softwood	563 Mbf	Softwood	52 Mbf
Sum TotVol	13698 Cds	Sum CutVol	1006 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	64
1626			

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 35

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
16	M5	6	71	49	aspen (upland)	immature	final harvest	1	natural regeneration		
comnts Fmd : Scattered aspen are found within stand and are falling apart. Only a few red pine were noticed in the stand, and they were located along the road. Leave all red pine for aesthetics. Do not cut hemlock and oak. Do not cross seasonal drainage located within stand if it doesn't need to be crossed, and keep all slash out of it. Use minimal buffer on Stutts River of 100 feet. The eastern sale boundary will most likely be the old oxbows of the river. Buffer width of 50 feet should be used on oxbows. Stand will likely regenerate to aspen, but any mixture of the current species located on the site will be acceptable. Habitat Type ParVAa.											
19	J6	4	56	57	jack pine	immature	final harvest	1	natural regeneration		
comnts Fmd : Mark red pine and white pine to cut. Leave mostly poles and a few larger trees for seed. Make sure to leave a low enough basal area to scarify under. Do not cut hemlock and oak. A seasonal drainage is located along the western boundary of the stand. Sale boundary should exclude this drainage. An alternative acceptable management objective is red pine. Habitat Type ParV.											
28	M5	2	71	49	aspen (upland)	immature	final harvest	2	natural regeneration		
comnts Fmd : Scattered aspen are found within stand and are falling apart. Only a few red pine were noticed in the stand, and they were located along the road. Leave all red pine for aesthetics. Do not cut hemlock and oak. Do not cross seasonal drainage located within stand if it doesn't need to be crossed, and keep all slash out of it. Use minimal buffer on Stutts River of 100 feet. The eastern sale boundary will most likely be the old oxbows of the river. Buffer width of 50 feet should be used on oxbows. Stand will likely regenerate to aspen, but any mixture of the current species located on the site will be acceptable. Habitat Type ParVAa.											
37	M6	12	75	63	northern hardwood	immature	selection	1			
comnts Fmd : Stand sold as part of the Matchinski Sale but never cut and turned back. 41-033-97-01. Originally had a treatment of final harvest last year of entry. Stand has the potential to grow higher quality hardwoods, and should be marked and managed as northern hardwoods. Do not cut all aspen and paper birch. Some need to be left to provide diversity, and to maintain basal area within the stand. Aspen regeneration is acceptable within regeneration holes. Do not cut hemlock and oak. Permission was granted from Larry Matchinski to access this stand through his property. Habitat Type AFPo+											
45	S6	9	75	47	black spruce-swamp	immature	final harvest	1			
comnts Fmd : An active beaver dam is located just east of this stand, and is causing water to back up. Leave some pine for seed trees and aesthetics. Do not cut hemlock and oak.											
63	W9	8	109	50	white pine	mature	shelterwood-seed	1			
comnts Fmd : Harvest on bare ground conditions only to promote regeneration. Western sale boundary should exclude areas of dense hemlock poles along the creek. No trees should be cut within 25 feet of the creek, and this buffer should be extended if erosion is a concern in a particular area. Basal area should be left higher adjacent to the creek. Do not cut hemlock and oak. There may be a small strip of cedar along the southern property line, depending where it lies. Do not include this within the stand. Habitat Type ATFD.											
73	R6	8	60	48	red pine	immature	thinning	1			
comnts Fmd : Treatment prescribed is a species thinning with a red pine management objective. Mark red and white pine to cut if needed for operability, or to release any younger pine regeneration. Do not cut paper birch, hemlock and oak. Habitat Type PVE+.											
75	A6	3	75	56	aspen (upland)	mature	final harvest	2	natural regeneration		
comnts Fmd : Aspen sliver on ridge bordering spruce stand. Gate located within stand is in trespass. Operability may be difficult due to the steepness of the ridge. Do not cut hemlock and oak. Habitat Type ParV-Ao.											
77	M9	12		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : Stand was set up in 1997, sale number 033-97 as part of Matchinski sale. This unit was not harvested. Paint is still visible on trees. Do not cut hemlock and oak. Permission was granted from Dan Hendrickson to access this stand through his property. Habitat Type AFPo+											
Total Acres.....		64									

**Proposed Treatments
With Limiting Factors**

Compartment: 035 **Entry Year: 2007**

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

