



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 44 ENTRY YEAR: 2009

Compartment Acreage: 2007 County: Schoolcraft

Revision Date: 6/28/2007

Stand Examiner: Adam Petrelius

Legal Description: T42N R16W Sections 3, 10, 11, 14, and 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 within the compartment is mostly flat. Slight elevation changes occur in the forested areas. About 60% of the compartment is non-forested with the majority of that acreage classified as treed bog. Approximately half of the remaining acreage is dominated by lowland conifers, and the other half is a mixture of red pine, jack pine, and white pine. The major soil types found within the compartment, in order of abundance, are Dawson-Greenwood-Loxley, Spot-Finch Complex, Carbondale-Lupton-Tawas, and Rousseau-Neconish-Finch. Habitat types within the compartment, in order of abundance, are unclassified wetland, PVE, and PArVAa. The entire compartment lies within the Mint Farm Land Type Association.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land within this compartment was acquired between 1927 and 1952. Approximately half of the compartment boundary is bordered by state land. One interior private 40 is owned by Plum Creek Timber. Ten different private landowners border the compartment on the south and east edges. Most of these owners have a camp on their property. Access to the compartment is limited and it is mostly used by these adjacent landowners.

Unique, Natural Features (include only non-site specific and non-sensitive information): None known.

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

Special Management Designations or Considerations: A portion of this compartment, located in the northeast corner, is designated as a Special Conservation Area. The reason for this designation is deeryard.

Watershed and Fisheries Considerations: The Sturgeon Hole Creek is found within this compartment. A warm-water stream, it supports resident fish and fish that migrate from the Manistique River. Yellow perch, northern pike, suckers and minnows have all been documented through fisheries surveys. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Woodruf Lake is also found within this compartment. No files exist for this body of water, therefore, information regarding the aquatic community is not known.

Wildlife Habitat Considerations: This compartment is located north of Manistique on the west side of M-94. This area is dominated by marsh/low pine ridge complex. This compartment sets along the west side of the Sturgeon Hole Deeryard complex. Sturgeon hole creek traverses the compartment from north to south. Pre-settlement data show the ridges and islands within the marsh were dominated by primarily spruce and tamarack. Cedar, white pine and white birch were also present in fair abundance. Although the marsh is relatively unchanged, it appears that the current forest cover on the islands and ridges have substantially more red pine and jack pine than was found during the original survey. The eastern portion of this compartment is part of the Sturgeon Hole Deer Yard. The wildlife habitat management regime consist of maintaining closed canopy coniferous cover within the deer yard and promoting species and size class diversity within and between the forested islands of the marsh complex.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat & muck. There is insufficient data to determine the glacial drift thickness. The Silurian Cabothead Shale and Manitoulin Dolomite subcrop below the glacial drift. The Manitoulin could be used for stone/dolostone. A clay pit is located to the north and a gravel pit is located in Section 24, but there appears to be limited potential. There is no commercial oil and gas production in the UP.

Vehicle Access: State highway M-94 travels through the eastern portion of the compartment. Two forest roads enter the main portion of the compartment. Both roads are in decent shape and will support vehicle traffic. However, both roads are gated and vehicle access to the majority of the compartment is limited to those private landowners. Spruceville Road travels southeast from M-94 for a short distance through the compartment and eventually reaches the Haywire Grade.

Survey Needs: Survey work is not needed within the compartment.

Recreational Facilities and Opportunities: There are no recreational facilities located within the compartment. The Haywire Grade, a designated snowmobile trail, is located ¼ mile east of the compartment. Opportunities for hunting and other forms of recreational activity exist within the compartment.

Fire Protection: Response time to fires within this compartment will be slow to moderate. Although there are 2 main forest roads entering the compartment, much of the compartment is low ground. Some areas of the compartment are more than 1 mile from the nearest road. A combination of organic soils, limited access, drought conditions, and lightning activity could make firefighting efforts difficult here. The compartment has only 1 surface water source that is easily accessible, the Sturgeon Hole Creek. Numerous other water sources are available a few miles away.

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**

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **44**

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	22																										22
S Black Spruce		254																									254
C Cedar				167																							167
J Jack Pine							34																				34
L Lowlnd Brush									16																		16
Q Mx Swmp Cnfr												159															159
X Non Stocked													9														9
R Red Pine															92				4								96
T Tamarack																						3					3
D Treed Bog																							1141				1141
Z Water																									11		11
W White Pine																										95	95
Total	22	254		167			34		16			159	9		92				4			3	1141		11	95	2007

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **44**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	382 Cds	Hardwood	14 Cds
Softwood	6004 Cds	Softwood	1239 Cds
Softwood	1002 Mbf	Softwood	275 Mbf
Sum TotVol	8390 Cds	Sum CutVol	1803 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
2007		105	

**Proposed Treatments
With NO Limiting Factors**

Compartment: 44

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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Total Acres..... 0

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
7	W9	10	95	56	white pine	immature	shelterwood-seed	1		

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : [7-24-03BB] 20-99 Sturgeon Hole Sale, Cut winter 2003

All species were previously cut except red pine and white pine. Mark red pine and white pine to cut. Understory has a mixture of pine, spruce, aspen, and fir. Acceptable alternative management objectives include any species mixture currently found onsite.

Retention guidelines: Leave approximately 30 sq.ft. basal area of red pine and white pine. Do not cut hemlock and oak.

Access: Easiest access is through private land along the Green Box Road. I spoke with one private owner, and he deined us permission to cross his land. The only other route to this stand would be down the Smith Creek Road (7 mile snow plow, about 1 mile is along snowmobile trail). Approximately 1/4 mile of new road would need to be constructed over a very steep ridge. Harvesting operations would need to be limited to the winter since a portion of the road would need to be frozen.

Wld : This stand types out as a PArV-Ao habitat. WLD agrees with FMFMs prescription

10	S6	17	80	45	black spruce-swamp	mature	final harvest	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Stand is mostly black spruce with some jack pine and tamarack present. White pine and red pine logs are found throughout stand. Mark red pine and white pine to cut, leaving some good seed trees. Alternative management objectives include any species mixture currently found onsite.

Retention: Do not cut hemlock and oak. Leave some white pine and red pine for seed. Northwest portion of stand can be excluded and saved as a retention patch.

Access: Easiest access is through private land along the Green Box Road. I spoke with one private owner, and he deined us permission to cross his land. The only other route to this stand would be down the Smith Creek Road (7 mile snow plow, about 1 mile is along snowmobile trail). Approximately 1/4 mile of new road would need to be constructed over a very steep ridge. Harvesting operations would need to be limited to the winter since a portion of the road would need to be frozen.

Wld : Wld agrees with FMFM prescription

11	R6	13	80	53	red pine	mature	shelterwood-seed	1		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Stand is a long narrow ridge with an even mixture of red pine and jack pine. Some spruce is also present. Acceptable alternative management objectives include any species mixture currently found onsite. Stand crosses compartment boundary into Compartment 41, stand 68 (about 3 acres). This portion of stand 68, compartment 41, should be included and have the same prescription.

Retention: Do not cut hemlock and oak. Leave some red pine and white pine for seed. Make sure to mark all of the pine located at the top of the ridge for access purposes. Incorporate a 3% acreage retention patch into the boundary line.

Access: Easiest access is through private land along the Green Box Road. I spoke with one private owner, and he deined us permission to cross his land. The only other route to this stand would be down the Smith Creek Road (7 mile snow plow, about 1 mile is along snowmobile trail). Approximately 1/4 mile of new road would need to be constructed over a very steep ridge. Harvesting operations would need to be limited to the winter since a portion of the road would need to be frozen.

Wld : This stand types out as a PArV-Ao habitat. WLD agrees with FMFMs prescription

24	R9	13	63	58	red pine	immature	thinning	1	planting	
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Basal area is variable. Thin pine to 80 sq.ft. per acre. Paint line should be placed at bottom of ridge to allow for operability.

Retention: Do not cut hemlock and oak.

WLD would like to underplant white pine and white spruce.

Access: Access to stand involves crossing 2 landowners. One agreed to allow us access. A letter was written to the other landowner, and no contact was made.

Wld : This stand types out as a PArV-Ao habitat. WLD agrees with FMFMs prescription. In addition, underplant white pine and white spruce.

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
26	W9	5	90	55	white pine	immature	shelterwood-seed	1	planting	

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Mixture of red pine and white pine logs with some jack pine and aspen present. Acceptable alternative management objectives include any species mixture currently found onsite. Regeneration should be protected with timbersale spec. Illegal blind located in stand was referred to CO's. Metal post is located at property corner.

Retention: Do not cut hemlock and oak. Leave some red pine and white pine for seed. There is a steep gully located in the stand which is likely too steep to operate. This can be saved as a retention patch.

WLD would like to underplant white pine and white spruce.

Access: Access to stand involves crossing 2 landowners. One agreed to allow us access. A letter was written to the other landowner, and no contact was made.

Wld : This stand types out as a PArV-Ao habitat. WLD agrees with FMFMs prescription. However WLD would also recommend the underplanting of white pine and white spruce

40	R9	4	93	51	spruce-fir (uplands- including upland black spruce)	mature	shelterwood-seed	1	planting	
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TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : Small ridge of red pine/white pine. There is good access from M94 on spur road that leads to a landing area. It is likely that no cedar will need to be cut for road construction or possibly only a few (less than 5 trees). Stand should be planted with white spruce by inmates following harvest. Acceptable alternative management objectives include any species mixture currently found onsite.

Retention Guidelines: Do not cut cedar, hemlock, and oak. Leave some supercanopy red pine and white pine.

WLD would like to convert this stand to white spruce following harvest.

Access: This is the only stand in the compartment that does not have any access problems from private landowners. Stand may be dropped due to it's size if access can not be granted for other stands within the compartment.

Wld : This stand types out as PArV-Ao. Wld agrees with the cutting of this stand, but would like to convert it to white spruce after the cutting.

53	R9	7	82	50	red pine	mature	shelterwood-seed	1		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Stand is a mixture of red pine and white pine logs with some black spruce also. Acceptable alternative management objectives include any species mixture currently found onsite.

Retention: Do not cut hemlock and oak. Leave some red pine and white pine for seed. Incorporate a retention patch (3%) of stand acreage along the boundary line.

Access: Easiest access is through private land along the Green Box Road. I spoke with one private owner, and he deined us permission to cross his land. The only other route to this stand would be down the Smith Creek Road (7 mile snow plow, about 1 mile is along snowmobile trail). Approximately 1/4 mile of new road would need to be constructed over a very steep ridge. Harvesting operations would need to be limited to the winter since a portion of the road would need to be frozen.

Wld : This stand types out as a PArV-Ao habitat. WLD agrees with FMFMs prescription

54	S6	3	78	39	black spruce-swamp	immature	final harvest	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Small island of spruce. Acceptable alternative management objective includes any species mixture currently found onsite.

Retention: Do not cut hemlock and oak. Leave a few red pine logs.

Access: Easiest access is through private land along the Green Box Road. I spoke with one private owner, and he deined us permission to cross his land. The only other route to this stand would be down the Smith Creek Road (7 mile snow plow, about 1 mile is along snowmobile trail). Approximately 1/4 mile of new road would need to be constructed over a very steep ridge. Harvesting operations would need to be limited to the winter since a portion of the road would need to be frozen.

Wld : Scattered red pine logs within the stand. Retain a few.

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
69	W6	6	90	45	white pine	immature	seed tree	2		

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Mixture of black spruce, jack pine, red pine and white pine logs. Mark red pine and white pine to cut. Acceptable alternative management objectives include any species mixture currently found onsite. Access to stand will be through about 250 feet of D0 cover type.

Retention: Leave all hemlock and oak. Leave some red pine and white pine for seed. Stand is too small to save a portion as a retention patch.

Access: Easiest access is through private land along the Green Box Road. I spoke with one private owner, and he denied us permission to cross his land. The only other route to this stand would be down the Smith Creek Road (7 mile snow plow, about 1 mile is along snowmobile trail). Approximately 1/4 mile of new road would need to be constructed over a very steep ridge. Harvesting operations would need to be limited to the winter since a portion of the road would need to be frozen.

Wld : This stand types out as a PArV-Ao habitat. WLD agrees with FMFMs prescription including the leaving of a few large white pine

71	J6	9	65	48	jack pine	mature	final harvest	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Stand is a long, narrow ridge of jack pine. Access to stand will have to be through about 100 feet of D0 cover type. Acceptable alternative management objective includes any species mixture currently found onsite. Scarification is impractical, and stand regeneration will be checked according to the regeneration timeclock.

Retention: Leave some red pine and white pine for seed. These can be marked with green paint to leave, or incorporated into the boundary line. Do not cut hemlock and oak. No retention patches will be left due to the stands size and shape.

Access: Easiest access is through private land along the Green Box Road. I spoke with one private owner, and he denied us permission to cross his land. The only other route to this stand would be down the Smith Creek Road (7 mile snow plow, about 1 mile is along snowmobile trail). Approximately 1/4 mile of new road would need to be constructed over a very steep ridge. Harvesting operations would need to be limited to the winter since a portion of the road would need to be frozen.

Wld : This stand types out as a PArV-Ao habitat with a minor component of PVE. WLD agrees with FMFMs prescription

73	R9	18	80	50	red pine	mature	seed tree	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : Stand consists of red pine and white pine logs with spruce and jack pine present also. Best access to stand would involve building a new road approximately 200 feet long through private land which was recently cut. Illegal blind located in stand and was referred to CO's. Acceptable alternative management objectives include any species mixture currently found onsite.

Retention: Do not cut hemlock and oak. Mark red pine and white pine to cut, leaving some good seed trees. Retention patches should be left along boundary of stand since it is narrow. Make sure to mark red pine and white along top of ridge to allow access for harvesting equipment.

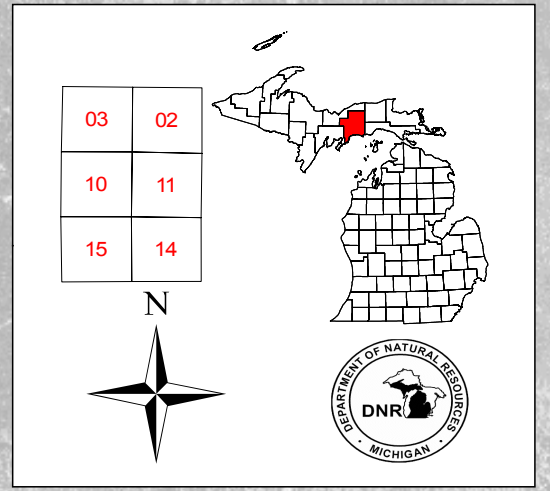
Access: Private landowner denied access. No possible access across state land.

Wld : This stand types out as a PArV-Ao habitat. WLD agrees with FMFMs prescription

Total Acres..... 105

Field Map

Compartment 44
 T42N, R16W, Sec. 2, 3, 10, 11, 14, 15
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2009
 Acres: 2006 GIS Calculated
 Stand Examiner: Adam Petrelius
 Map Revised: 12/06/2007
 Map Phase: Pre-review



Legend

- ◆ RLS Corners
- Miris Corners
- Highways
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Water Features
- State Highway

Trail Type

- Snowmobile Trails
- Stand Boundaries
- SCA - Special Conservation Area
- 100 - Final Harvest
- 200 - Seed Tree
- 300 - Shelterwood-seed
- 311 - Shelterwood-seed/Planting/Hand Tools
- 411 - Thinning/Planting/Hand Tools

