



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 131 ENTRY YEAR: 2009

Compartment Acreage: 3225 County: Schoolcraft

Revision Date: 12/10/07

Stand Examiner: Robert Tylka

Legal Description: T47N R14W Sections 5-8 and 16-18

RMU (if applicable):

Management Goals: To manage the compartment in accordance with the principles of sustainable forest eco-system management, with emphasis on timber production, recreation, maintaining & enhancing wildlife habitat, and protection of riparian areas

Soil and Topography:

The topography is rolling, with occasional steep ridges. Soils are generally moderate to well-drained, but pockets and corridors of lowland with impeded drainage are also present.

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

There are several private land parcels with hunting camps located within this compartment, and also timber company lands enrolled in the Commercial Forest Reserve.

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

The West Branch Fox River & its tributaries, including lakes and ponds, flow through this compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

No concerns listed in the History, Arts & Libraries Information System.

Special Management Designations or Considerations:

The Fox River drainage is designated as a natural river system. Surrounding lands are subject to special protective measures and management guidelines as defined in the **FOX RIVER NATURAL RIVER PLAN**.

Watershed and Fisheries Considerations:

The West Branch of the Fox River is found within this compartment and is a designated trout stream. 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 along the Taylor Dam Road, north of Seney. The West Branch of the Fox River crosses the northern portion of the compartment. Pre-settlement data show the virgin forest was a composite

of white pine, red maple, hemlock, balsam fir, birch (both white and yellow), and beech. Sugar maple and red pine were less important components and mountain ash was an important understory species. Lowlands contained primarily spruce but also a few cedar and tamarack.

The current forests contain more red pine, aspen, and oak than the circa 1850 forests. Correspondingly, there has been a sizable decrease in the amount of hemlock white pine, and yellow birch.

The wildlife habitat management objectives for this compartment are associated with managing for both early and late successional forest conditions. In association with efforts to consolidate large opening complexes in other compartments, the large grass openings in this compartment may potentially be planted to pine at a later date.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River and Prairie du Chien Groups subcrop below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are not found in the general area, but there should be potential on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access:

Although the bridge over the West Branch Fox River on the Wagner-Taylor Dam Road is no longer available for vehicle traffic, access to the compartment by motor vehicle is generally very good. Areas north of the river may be accessed through private lands via the Adams Trail (Co. Rd. 637) while the rest of the compartment may be reached from the Wagner-Taylor Dam Rd. A well-developed network of passable woods roads exists throughout the area.

Survey Needs:

Recreational Facilities and Opportunities:

A heavily-used snowmobile trail passes through the compartment, and the Fox River Pathway passes through the southwest corner in section 18. Hunting, fishing and dispersed camping commonly occur in this area.

Fire Protection.

Vehicle access is good, and viable water sources are readily available. A wide variety of fuel types are present.

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**

12/17/2007 1:34:00 PM

Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 131

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		443			1													90	534
Black Spruce								5	7	44		24						3	83
Bog or Marsh	103																		103
Grass	523																		523
Hemlock																		59	59
Jack Pine					61	64													125
Lowland Brush	157																		157
Marsh	1																		1
Mx Swmp Cnfr				22			2	17										128	169
Non Stocked	6																		6
Red Pine							299	11										66	376
Spruce Fir																		23	23
Treed Bog	9																		9
Upland Brush	10																		10
Upland Hdwds																		692	692
Water	65																		65
White Pine								4		3								283	290
Total	874	443		22	62	64	301	37	7	47		24						1344	3225

12/17/2007 1:34:03 PM

Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 131

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	522																									12	534	
S Black Spruce		83																										83
V Bog or Marsh			103																									103
G Grass					523																							523
H Hemlock						59																						59
J Jack Pine							125																					125
L Lowlnd Brush									157																			157
N Marsh											1																	1
Q Mx Swmp Cnfr												169																169
X Non Stocked													6															6
R Red Pine																376												376
F Spruce Fir																			23									23
D Treed Bog																							9					9
U Upland Brush																									10			10
M Upland Hdwds																									692			692
Z Water																									65			65
W White Pine																										290		290
Total	522	83	103		523	59	125		157		1	169	6			376			23			9	10	692	65	302	3225	

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **131**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10456 Cds	Hardwood	671 Cds
Hardwood	929 Mbf	Softwood	2990 Cds
Softwood	15012 Cds	Softwood	48 Mbf
Softwood	1070 Mbf	Sum CutVol	3757 Cds
Sum TotVol	29466 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	441
3225			

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 131 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
35	S6	22	84	45	black spruce-swamp	mature	final harvest	3		
comnts Fmd : Soils - Rubicon sand, 15-35% slopes Habitat - PArV/PVE										
50	R6	38	48	50	red pine	immature	thinning	1		
comnts Fmd : Soils - Rubicon sand generally 0-35% slopes Habitat - PArV/PVE Red pine plantation on rolling terrain. Scattered white pine, red maple and cherry are also present.										
53	R6	64		50	red pine	immature	shelterwood-seed	1	other - specify in remarks	
comnts Fmd : Soils - Rubicon sand up to 35% slope (northeast area of stand; generally 0-6% slope) Habitat - PArV/PVE Two-storied red pine on a medium quality site - first planted in 1959 and recently underplanted to fill in the open areas. As a result the understory varies from open to R2, but is generally a sparse mix of white pine, red maple and the surviving red pine seedlings. Mixed pulpwood volume includes scattered red maple, aspen, jack pine, and white pine. Some of the white pine are large-diameter relicts from the previous stand. A few scrubby oak and black cherry are also present. Cut now using the shelterwood-seed method, leaving approx. 50 sq.ft/acre of the best red pine (generally 8"+ DBH with live crown ratios of 40% or higher) and the white pine. Sale administration should emphasize protection of the existing red & white pine regeneration. Schedule a regeneration survey for 3 years after the cut in this stand is completed - results of survey will be used to at that time to determine the need/desirability of further cult work to enhance regeneration.										
54	R6	20	48	50	red pine	immature	thinning	1		
comnts Fmd : Soils - Rubicon sand 0-6% slope Habitat - PArV/PVE Red pine plantation. Mixed pine includes scattered jack & white pine poles and a few larger white pine up to 18" DBH.										
56	R6	196	48	50	red pine	immature	thinning	1		
comnts Fmd : Soils - Rubicon sand generally 0-6% slope, with some steeper areas to 35% slope Habitat - PArV/PVE Red pine plantation on rolling terrain. Mixed pine pulpwood includes jack & white pines; mixed hardwood pulp includes cherry and red maple. A few white pine logs and aspen are also present.										
57	R6	15	48	50	red pine	immature	thinning	1		
comnts Fmd : Soils - Rubicon sand 15-35% slopes Habitat - PArV/PVE Red pine plantation on rolling terrain. Mixed pulpwood includes white pine, red maple and cherry. Thin where the basal area is higher in order to release the best trees.										
60	R6	9	48	50	red pine	old growth (potential or actual)	thinning	1		
comnts Fmd : Soils - Rubicon sand 0-35% slopes Habitat - PArV/PVE Red pine plantation on rolling terrain. Ready to thin with emphasis on releasing best quality trees. Buffer the east end as needed in accordance with the Fox River Plan.										
61	R6	21	48	50	red pine	immature	thinning	1		
comnts Fmd : Soils - Rubicon sand 0-6% slopes Habitat - PArV/PVE Red pine plantation on rolling terrain. Mixed pulpwood includes white pine, aspen and red maple. Ready to thin with emphasis on releasing best quality trees. Cut merchantable hardwoods and aspen, except for cherry and oak if any are found in the stand.										
77	A6	18		45	aspen (upland)	old growth (potential or actual)	final harvest	3		
comnts Fmd : HCVA - Fox River Soils - Rubicon sand 0-35% slopes Habitat - PArV/PVE Mix of mature aspen and white pine poles. Buffer the drainage on the south end per the Fox River Plan.										
89	A5	12		45	white pine	mature	final harvest	3		
comnts Fmd : HCVA - Fox River Soils - Rubicon sand 6-15% slopes Habitat - PArV/PVE Buffer the river if cutting this stand.										

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 131

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
Total Acres.....		415								

SHINGLETON FOREST AREA

**Proposed Treatments
With Limiting Factors**

Compartment: 131 **Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
68	S6	18	84	42	black spruce-swamp	old growth (potential or actual)	final harvest	3		

TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)

comnts Fmd : HCVA - Fox River
 Soils - Rubicon sand 0-35% slopes on the upland, and Dawson-Greenwood-Loxley soils in the lowland inclusions.
 Habitat - Parv/PVE on the uplands, unclassified wetlands in the lowland areas
 Spruce stand with aspen/spruce-fir inclusions on rolling terrain. When cut, expect pockets of aspen regeneration throughout - aspen and all conifers are acceptable regeneration. Buffer the river and Spring Lake in accordance with the Fox River Plan.

74	S6	4	102	45	black spruce-swamp	old growth (potential or actual)	final harvest	3		
-----------	-----------	---	-----	----	--------------------	-------------------------------------	---------------	---	--	--

TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)

comnts Fmd : HCVA - Fox River
 Soils - Kalkaska sand 0-6% slope
 Habitat - ATFD
 Spruce near the West Branch Fox River - buffering the river/tributaries wouldn't leave enough timber to harvest.

75	S6	4	102	45	black spruce-swamp	old growth (potential or actual)	final harvest	3		
-----------	-----------	---	-----	----	--------------------	-------------------------------------	---------------	---	--	--

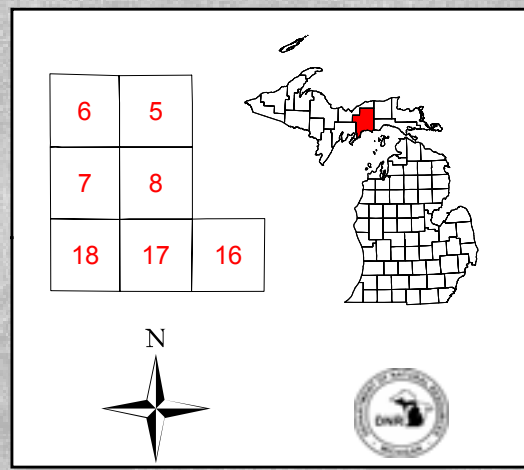
TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)

comnts Fmd : HCVA - Fox River
 Soils - Kalkaska sand 0-6% slope
 Habitat - ATFD
 Spruce near the West Branch Fox River - buffering the river/tributaries wouldn't leave enough timber to harvest.

Total Acres..... 26

Field Map

Compartment 131
 T47N, R14W, Sec. 5-8, 16-18
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2009
 Acres: 3,225 GIS Calculated
 Stand Examiner: Robert Tylka
 Map Revised: 12/10/2007
 Map Phase: Pre-Review



- Legend**
- Miris Corners
 - County Gravel Roads
 - Paved Roads
 - Poor Dirt Roads
 - Trails
 - shi131_hiking_trails
 - Snowmobile Trails
 - Hiking Trails
 - Stand Boundary
 - 100 - Final Harvest
 - 398 - Shelterwood-seed/Other/Other
 - 400 - Thinning

