



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 166 ENTRY YEAR: 2007

Compartment Acreage: 2366

County: Schoolcraft & Alger

Revision Date: June 24, 2005

Stand Examiner: Kristen Matson

Legal Description: T47N R16W Sections 4, 9, 11, 14, 15

RMU (if applicable):

Management Goals: Recreation is important as this compartment contains five State Forest Campgrounds, and the snowmobile trail goes through the northwest corner. Also emphasized is timber production through selection cutting in hardwood stands, and wildlife habitat management.

Soil and Topography: The upland soils consist of Garlic & Paquin Sands, and the lowland soils include Dawson and Carbondale Peats & Mucks. Topography is flat to slightly rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Several of the lakes in the compartment have vacation and year round residences. The majority of the land to the north and east is commercial forest land managed for northern hardwoods.

Unique, Natural Features (include only non-site specific and non-sensitive information): Currently under review by Michigan Natural Features Inventory (MNFI)

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None identified at this time.

Special Management Designations or Considerations: None identified at this time.

Watershed and Fisheries Considerations:

Gemini Lake; This lake was last surveyed by Fisheries Division in 2003. Six age-classes of walleye were captured and growth rates were acceptable. Further stocking has been suspended to determine if the walleye population can support itself through natural reproduction. Survey results also indicate good fisheries for northern pike, smallmouth bass, and pumpkinseed sunfish.

Ross Lake. This lake was last surveyed by Fisheries Division in 2004. The most attractive fisheries are for northern pike, largemouth and smallmouth bass, and bluegills. No fish stocking occurs at this time.

Canoe Lake; This lake is not actively managed by Fisheries Division as it is a suspected winterkill lake.

Cusino Lake; This lake is actively managed by Fisheries Division. Walleye have previously been stocked here along with northern muskellunge. Cusino Lake also produces a nice bass fishery.

Upland management activities should be concerned with avoiding practices which would allow sediment to enter these lake systems or the drainages that flow into/out of them, therefore, BMP practices should be followed.

Wildlife Habitat Considerations: This compartment lies in northern Schoolcraft County and contains Canoe Lake and portions of Ross and Gemini Lakes. Early surveyor notes show that the uplands were dominated by a mixed forest containing sugar maple, hemlock, yellow birch, beech, white pine, balsam fir, and red maple. Lowland forest consisted of tamarack, spruce, and cedar. Current upland forest appear to have more black cherry and less hemlock, yellow birch, and white pine than the circa 1850 forests. Low lying conifer stands appear to be fairly similar in species composition to the pre-settlement forests. Wildlife habitat objectives in this compartment include promoting species diversity in the northern hardwood stands by enhancing the black cherry, yellow birch, hemlock and white pine components, maintaining closed canopy hemlock stands, and protecting the ecological integrity of the wetlands systems.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) and the Cambrian Trempealeau Formations subcrop below the glacial drift. The PdC and Trempealeau could be used for stone. The nearest gravel pit is two miles to the northwest and there should be potential in the compartment. There is no commercial oil and gas production in the UP.

Vehicle Access: Vehicle access is good; there are county roads and dirt two-track roads throughout.

Survey Needs: None identified at this time.

Recreational Facilities and Opportunities: This compartment contains the following State Forest Campgrounds: North & South Gemini Lakes, Canoe Lake, Cusino Lake, and Ross Lake. There is also a short hiking trail at South Gemini Campground.

Fire Protection: There is a low occurrence of fires in this area mainly due to hardwood timber types.

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: 166

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
Black Spruce								35	3										38
Bog or Marsh	114																		114
Cedar										79	29								108
Hemlock									12	13	2	30	11			8	11		87
Lowlnd Brush	31																		31
Mx Swmp Cnfr							18	48	25										91
Non Stocked	44																		44
Treed Bog	74																		74
Upland Hdwds		35				19	13	3										1641	1711
Water	41																		41
White Pine									8	4	15								27
Total	304	35				19	31	86	48	96	46	30	11			8	11	1641	2366

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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: 166

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
S Black Spruce		38																									38
V Bog or Marsh			114																								114
C Cedar				108																							108
H Hemlock						87																					87
L Lowlnd Brush									31																		31
Q Mx Swmp Cnfr												91															91
X Non Stocked													44														44
D Treed Bog																							74				74
M Upland Hdwds																								1711			1711
Z Water																									41		41
W White Pine																										27	27
Total		38	114	108		87			31			91	44									74		1711	41	27	2366

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 166

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	22673 Cds	Hardwood	197 Cds
Hardwood	1542 Mbf	Hardwood	44 Mbf
Softwood	3549 Cds	Sum CutVol	285 Cds
Softwood	659 Mbf		
Sum TotVol	30624 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	82
2366			

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 166 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
25	M6	62		50	northern hardwood	unevenaged	selection	2			
comnts Fmd : Thinned in 1987. Variable BA (70-130); thin to 80 BA where applicable. There are more hemlock trees near the bogs & ponds; mark to favor hemlock reproduction in these areas. Must cross private land to access this stand (Forest Land Group). Follow BMP guidelines near the bogs & ponds. Acceptable regeneration species are any combination of the existing tree species. Ancillary data is available. 99=yellow birch and cherry Soil=Paquin Sand & Garlic Sand hab.Type=ATFD											
31	M9	20		50	northern hardwood	unevenaged	selection	2			
comnts Fmd : Along Wolf Lake TT. BA is variable (70-140), thin to 80 BA where applicable. Ancillary data is available. Acceptable regeneration species are any combination of the existing tree species. Soil=Paquin Sand & Garlic Sand Hab.Type=ATFD											
56	M3	35	6	46	northern hardwood	immature		0	planting		
comnts Fmd : Clearcut in 2000. Some residual trees including: hemlock, white pine and beech. (<10 BA total) During a field check with the OI audit team (11/02), it was mentioned to plant Oak in this stand. Soil=Garlic Sand Hab.type=ATFD [9/19/05 pre-review] Also plant Hemlock - contact Bill Scullen (Deer Range Improvement Program Coordinator) to get Hemlock seedlings.											
Total Acres.....		117									

**Proposed Treatments
With Limiting Factors**

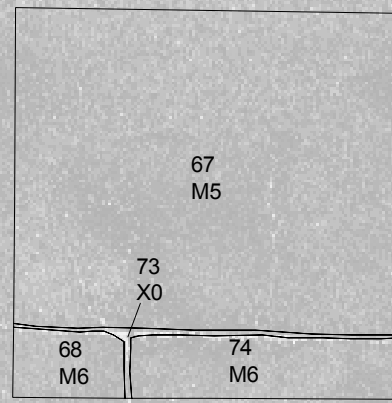
Compartment: 166 **Entry Year: 2007**

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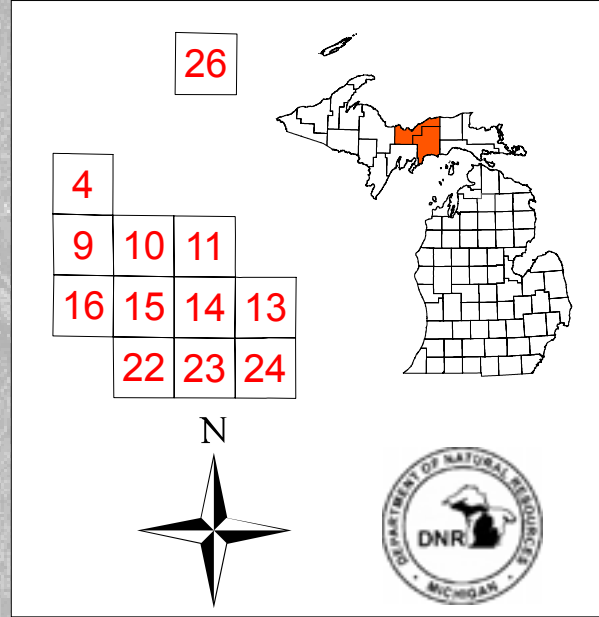
TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map



Compartment 166
 T47N, R16W, Sec. 4, 9-11, 13-16, 22-24
 T48N, R16W, Sec. 26
 County: Schoolcraft, Alger
 Unit: Shingleton
 YOE: 2007
 Acres: 2,366 GIS Calculated
 Stand Examiner: Kristen Matson
 Map Revised: 10/03/2005
 Map Phase: Pre-review



- Legend**
- Miris Corners
 - - - Poor Dirt Roads
 - Trails
 - ▲ Hiking Trails
 - Stand Boundary
 - ▨ 011 - Planting/Hand Tools
 - ▩ 800 - Selection
 - Name County Dirt Roads
 - Name Poor Dirt Roads
 - Name Water Features

