



**SHINGLETON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 176    ENTRY YEAR: 2008**

**Compartment Acreage: 1233    County: Alger**

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**Revision Date: 10/09/06**

**Stand Examiner: R. Tylka**

**Legal Description: T47N R17W Sections 7, 8, 17 and 18**

**RMU (if applicable):**

**Management Goals:** Management activities that coordinate multiple uses and benefits for the people of Michigan including recreation, timber production and protection/enhancement of wildlife habitat are desirable.

**Soil and Topography:** This compartment is a mix of gently rolling uplands featuring loamy sands to fine sandy loams and wet bottomlands on poorly-drained muck soils. The uplands are moderately well-drained and display high site indices for northern hardwoods.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment lies in the Pictured Rocks National Lakeshore Buffer Zone.

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

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

**Special Management Designations or Considerations:** BMP issues are common and must be evaluated as part of any timber management scenario.

**Watershed and Fisheries Considerations:** The Mosquito River is a small stream flowing across the flats, through beaver dams, and then down some serious slopes and a falls into Lake Superior. In sections 7 and 8, it is classified as FQCW but in sections 17 and 18 it is SQCW. Throughout its length, it supports native brook trout populations, but is not large enough to support much angling pressure. Even so, it also supports moderate steelhead and salmon spawning runs out of Lake Superior to the falls.

**Wildlife Habitat Considerations:** This compartment lies north of Noble Lake and contains a portion of the Mosquito Creek. The General Land Office surveys note the pre-settlement Upland forest contained a mixture of Sugar maple, beech, and yellow birch. Hemlock was also recorded, but to a lesser extent. Lowlands contained cedar, black spruce, balsam fir, and black ash. Although there has been an increase in aspen acreage within this compartment from pre-settlement times, a large portion of this compartment (both upland and lowland) appears to contain a similar mixture of tree species as found circa 1850. The compartment contains one large cedar stand that appears to have never been harvested. Wildlife habitat goals within this compartment include maintaining species and structural diversity with the northern

hardwood community, to protect the integrity of an old rich conifer swamp, and provide habitat for early succession related species.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of end moraine of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. The nearest gravel pit is in Section 15 to the east and there should be good potential. There is no commercial oil and gas production in the UP.

**Vehicle Access:** County Road 639 is the northern boundary of this compartment, and Camp 15 Rd. (a DNR road) is the eastern boundary. Access to the southeast portion of the compartment may be limited by the condition and capacity of the bridge located where the Camp 15 Rd. crosses the Mosquito River. Access to the west half of this compartment is best gained by following the Noble Lake Rd. up into the southwest corner.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:** The Mosquito River provides opportunities for trout fishing, and the area is subject to light-to-moderate hunting pressure. No improved recreational facilities are in place, but the area's proximity to Pictured Rocks National Lakeshore may result in some traffic from tourists and/or snowmobilers.

**Fire Protection.** Vehicle access is generally good, although the Noble Lake Road is bermed just inside the compartment boundary.

**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

ALGER COUNTY

COMPARTMENT: 176

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			237	46															283
Cedar											5	107					140		252
Grass	4																		4
Lowlnd Brush	11																		11
Marsh	16																		16
Mx Swmp Cnfr										20		3							23
Non Stocked	2																		2
Swamp Hrdwds										26		5						21	52
Upland Hdwds																		550	550
Water	40																		40
<b>Total</b>	<b>73</b>		<b>237</b>	<b>46</b>						<b>46</b>	<b>5</b>	<b>115</b>					<b>140</b>	<b>571</b>	<b>1233</b>

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: 176

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	283																										283
C Cedar				252																							252
G Grass					4																						4
L Lowlnd Brush									11																		11
N Marsh											16																16
Q Mx Swmp Cnfr												23															23
X Non Stocked													2														2
E Swamp Hrdwds																				52							52
M Upland Hdwds																								550			550
Z Water																									40		40
<b>Total</b>	283			252	4				11		16	23	2							52				550	40		1233

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: **176**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8490 Cds	Hardwood	316 Cds
Hardwood	1294 Mbf	Hardwood	68 Mbf
Softwood	4191 Cds	Softwood	25 Cds
Softwood	884 Mbf	Sum CutVol	477 Cds
Sum TotVol	17037 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	74
1233			

**SHINGLETON FOREST AREA**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 176**    **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
35	M9	56		50	northern hardwood	unevenaged	selection	1		stand with fdf potential
<p>comnts Fmd : Soils - Munising-Yalmer-Frohling, calcareous substratum phases, 1-6% slopes                      Habitat types - AVO and ATD                      Sugar maple-basswood on a fairly good hardwood site with scattered maidenhair fern and sweet cicely on the ground. The understory is a mix of sugar maple, beech and balsam fir.                      Ready for a selection cut. Very few trees in the 18" DBH class or larger, so retaining these for size-class diversity must be emphasized. The harvest should focus on removing the lower-quality trees in the pole- and small-sawlog size classes.</p>										
<b>Total Acres.....</b>		<b>56</b>								

**SHINGLETON FOREST AREA**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 176**    **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
9	E5	18	84	46	swamp hardwoods	mature	final harvest	3		

TREATMENT LIMITING FACTORS: Too wet

comnts Fmd : Soils - Carbondale, Lupton and Tawas mucks and peats

Habitat types - TTS and TTM

Black ash, paper birch, cedar and a few spruce etc. on soft, slightly rolling ground. Site indices are extremely variable - the SI given represents the best trees on the best microsities.

Overall this stand is too wet to be operable. Uneven-aged characteristics are becoming more obvious as natural disturbances affect the area.

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**Total Acres..... 18**

