SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #177 ENTRY YEAR: 2009

Compartment Acreage: 1208 County: Alger

Revision Date: 11/19/07

Stand Examiner: K. Matson

Legal Description: T47N, R17W, sec. 19, 30-32

RMU (if applicable):

Management Goals: To provide sustainable forest eco-system management.

Soil and Topography: Soils in the upland hardwood areas of the compartment are mainly either Munising Calcareous Substratum-Cookson Complex 1-6% slopes, or Munising-Yalmer-Frohling, Calcareous substratum 1-6% slopes. The lowland areas near Noble lake and Stoney Creek have Carbondale, Lupton and Tawas soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There are a few private parcels to the south, commercial forestland on the west, and state owned land to the north and east.

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 known at present.

Special Management Designations or Considerations: An ERA management plan is currently under development for the rich conifer swamp near Noble Lake.

Watershed and Fisheries Considerations: Moderate. Stoney Creek is classified as Type 1 trout water. Although it can support native brook trout, we do not actively manage it. There is no fishery associated with the Eastern Lake Superior Fisheries Management area.

Wildlife Habitat Considerations: Located due north of Van Meer, this compartment contains Noble Lake and the headwaters of Stoney Creek. Pre-settlement data show that sugar maple was the dominant upland forest type at that time. Beech, yellow birch and hemlock were also well represented. In the lowland areas, cedar and tamarack were recorded most often with mixtures of black spruce, ash and elm.

Although there has been some increase in aspen and a likely decrease in hemlock and yellow birch, current forest composition is very similar to the circa 1850 forests; including one oldgrowth cedar stand that has never been cut.

Wildlife management objectives include protecting the oldgrowth cedar, maintaining one upland opening, and promoting the re-establishment of hemlock in selected stands.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of medium-textured 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 two miles to the southwest, but there should be potential on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access: Most of the compartment is accessible by vehicle on poor two-track roads.

Survey Needs: None needed at present.

Recreational Facilities and Opportunities: Although there are no developed DNR recreational facilities within the compartment, the compartment is used for hunting and mushroom picking.

Fire Protection: The majority of the compartment is easily accessed by fire protection vehicles. There are no specific Fire Protection concerns within this compartment.

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: **177**

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		1	59	1		2													63
Cedar										128									128
Grass	61																		61
Hemlock								2											2
Lowlnd Brush	38																		38
Mx Swmp Cnfr		12					39	79											130
Non Stocked	1																		1
Spruce Fir				5		5	16												26
Upland Hdwds				6														706	712
Water	47																		47
Total	147	13	59	12		7	55	81		128								706	1208

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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: **177**

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	63																										63
C Cedar				128																							128
G Grass					61																						61
H Hemlock						2																					2
L Lowlnd Brush									38																		38
Q Mx Swmp Cnfr												130															130
X Non Stocked													1														1
F Spruce Fir																			26								26
M Upland Hdwds																								712			712
Z Water																									47		47
Total	63			128	61	2			38			130	1						26					712	47		1208

LAKE SUPERIOR STATE FOREST | SHINGLETON FOREST AREA | ALGER COUNTY | COMPARTMENT: **177**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL VOLUME		CUT VOLUME	
Hardwood	12282 Cds	Hardwood	1353 Cds
Hardwood	526 Mbf	Hardwood	43 Mbf
Softwood	3908 Cds	Sum CutVol	1439 Cds
Softwood	422 Mbf		
Sum TotVol	18086 Cds		

Total Cmpt Acres

1208

Acres Proposed For Cut..... 159

SHINGLETON FOREST AREA | **Proposed Treatments With NO Limiting Factors** | **Compartment: 177** | **Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	**M6**	72		60	northern hardwood	unevenaged	selection	1		

comnts Fmd **:** Some areas of the stand were cut last entry. The majority of the stand is M6, with some areas of M9. Thin to 80 BA, promoting species and structural diversity. Ancillary data suggests concentrating cutting in the 8-10 & 14" diameter classes. Rolling terrain. 99/2=cherry & ironwood Habitat type=AFOAs soil=Munising-Yalmer-Frohling complex, calcareous substratum, 1-6% slopes and Munising Calcareous substratum-Cookson complex 1-6% slopes

Wld **:** WLD is in agreement with FMFM comments

24	**M6**	32		60	northern hardwood	unevenaged	thinning	1		

comnts Fmd **:** Mainly sugar maple with a few yellow birch, basswood, aspen and beech. Rolling terrain. Some areas with American Yew (ground hemlock). Thin to 80 BA promoting species and structural diversity. Protect vernal ponds by maintaining shade around them. Ancillary data suggests concentrating cutting in the 8-12 diameter classes. 99/2=beech, aspen, ironwood Habitat type=AFOAs soil=Munising-Yalmer-Frohling Complex, calcareous substratum 1-6% slopes

Wld **:** WLD is in agreement with FMFM comments

30	**M6**	55		55	northern hardwood	unevenaged	thinning	1		

comnts Fmd **:** Rolling terrain. Mainly sugar maple with a few beech, basswood, yellow birch and ironwood. Thin to 80BA, promoting species and structural diversity. Ancillary data suggests cutting in the 6-10" diameter classes. 99/2=y.birch, beech, ironwood, aspen Habitat type=AFOAs

Wld **:** WLD is in agreement with FMFM comments

35	**M6**	18		50	northern hardwood	unevenaged		0	planting	

comnts Fmd **:** Thinned in 2000. Regeneration is a mix of hardwoods with balsam fir. Plant Hemlock and White Pine in the south part of the stand (near stand 37) in openings created by logging. Soil=Munising-Yalmer-Frohling Complex, calcareous substratum, 1-6% slopes

Wld **:** WLD is in agreement with FMFM comments

37	**M5**	16		48	northern hardwood	unevenaged		0	planting	

comnts Fmd **:** Cut in 2000; residual BA is low. There are some areas of M3 & A3. FTP #C41-815 for white pine underplanting hasn't been completed yet. Cancel FTP and create a new one for planting Hemlock and White Pine in openings created by logging. Habitat type=ATFD Soil=Ingalls sand, 0-3% slopes.

Wld **:** WLD is in agreement with FMFM comments

38	**M6**	13		50	northern hardwood	unevenaged		0	planting	

comnts Fmd **:** Cut in 2000. Plant white pine and hemlock in openings created by logging. Soil=Munising-Calcareous Substratum-Ensley Complex 0-6% slopes

Wld **:** WLD is in agreement with FMFM comments

41	**M5**	17		50	northern hardwood	unevenaged		0	planting	

comnts Fmd **:** Cut in 2000; residual BA is low. There are patches of M3 and A3 within the stand. FTP #C41-815 wasn't completed. Cancel FTP and create a new one for hemlock and white pine planting in the openings created by logging. Habitat type=ATFD Soil=Munising Calcareous Substratum-Ensley Complex 0-6% slopes

Wld **:** WLD is in agreement with FMFM comments

46	**M6**	4		66	northern hardwood	unevenaged		0	planting	

comnts Fmd **:** Thinned in 2000. FTP #C41-815 was not completed. Cancel FTP and create a new one for Hemlock and white pine planting. Soil=Munising-Yalmer-Frohling Complex, Calcareous Substratum, 1-6% slopes

Wld **:** WLD is in agreement with FMFM comments

407	**G0**	16			grass	nonstocked		0	opening maintenance	

comnts Fmd **:** Large grass stand that is filling in with trees, especially near edges: aspen, maple, b.fir, spruce, juneberry, cherry. Opening maintenance: remove all trees except juneberry. Soil=Munising Calcareous substratum-Cookson complex, 1-6% slopes

Wld **:** WLD is in agreement with FMFM comments

Total Acres..... **243**

12/17/2007

Proposed Treatments With Limiting Factors

Compartment: 177 **Entry Year: 2009**

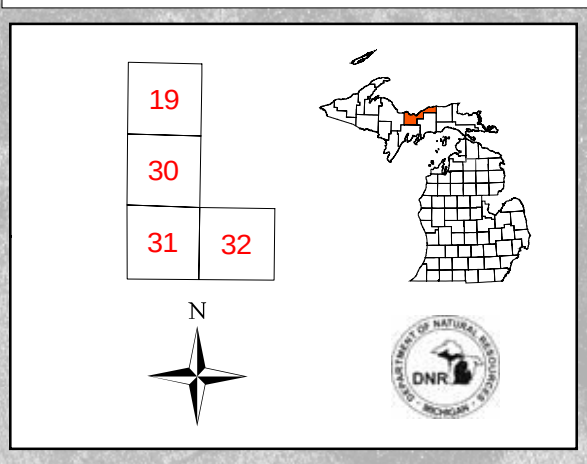
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status

TREATMENT LIMITING FACTORS:

Total Acres..... **0**

Field Map

Compartment 177
T47N, R17W, Sec. 19, 30-32
County: Alger
Unit: Shingleton
YOE: 2009
Acres: 1,208 GIS Calculated
Stand Examiner: Kristen Matson
Map Revised: 12/07/2007
Map Phase: Pre-review



Legend
- Miris Corners
- County Gravel Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Water Features
- Stand Boundary
- Biodiversity/Old Growth Area
- 011 - Planting/Hand Tools
- 021 - Opening Maintenance/Hand Tools
- 400 - Thinning
- 800 - Selection

Noble Lake
Stoney Creek
Rosemund Rd
Felix Olsen Rd
Munising Van meer Shingleton Rd
58

1 0.5 0 1 Miles