



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 182 ENTRY YEAR: 2008

Compartment Acreage: 1332 County: Alger

Revision Date: 10/3/06

Stand Examiner: K. Matson

Legal Description: T47N, R17W, secs. 25, 26, 35, 36

RMU (if applicable):

Management Goals: Sustainable management of forest resources, while providing for other ecological and socioeconomic values.

Soil and Topography: Carbondale-Greylock Association with Carbondale, Lupton and Tawas soils on the low, flat poorly drained portions of the compartment; and Greylock soils higher ground. The landform type is ground moraines.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The majority of the surrounding ownership is state land; although there is some commercial forest land to the northwest and southeast.

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: none

Watershed and Fisheries Considerations: This compartment contains a section of Commencement Creek and the upper reaches of small tributaries to the Creighton River. All streams in this compartment are considered warm-water. Beaver are not a concern. However, 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 on the south side of the Sunrise snowmobile trail and is a part of an area historically known as the Cusino Deer Yard. Pre-settlement forests contained hemlock, sugar maple, yellow birch, and beech in the uplands. Lowlands were dominated by cedar, tamarack, and spruce. Current forest conditions appear to contain a similar species mix, but with a reduction in the distribution of hemlock in the uplands as found circa 1850. Lowland forests seem to be relatively unchanged in species composition. Winter deer usage in the Cusino deer yard ceased sometime prior to 1960. Currently there are no deer wintering in this area. However, there is a long term goal to eventually

manage the Petrel Deer Yard to the south in such a manner as to lure deer north into this area. Therefore the current wildlife habitat goals for this compartment include maintaining the closed canopy lowland coniferous cover and promoting structural and species diversity within the hardwood stands. Variable retention principles will be employed.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured till and peat and muck. 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 three miles to the northwest, but there should be potential on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access: Much of the compartment is without roads.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: The north boundary of the compartment is the Sunrise Grade snowmobile trail.

Fire Protection: Low potential for fires; the majority of the compartment cover type is cedar, and is interspersed with small streams. Limited access.

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: 182

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS													All Aged	Total			
	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
Black Spruce		22							14	5									41
Cedar								25		132	201								358
Hemlock										3									3
Lowlnd Brush	32																		32
Mx Swmp Cnfr								170	290										460
Swamp Hrdwds								3											3
Upland Hdwds								2										433	435
Total	32	22						200	304	140	201							433	1332

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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: 182

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		41																									41
C Cedar				358																							358
H Hemlock						3																					3
L Lowlnd Brush									32																		32
Q Mx Swmp Cnfr												460															460
E Swamp Hrdwds																				3							3
M Upland Hdwds																								435			435
Total		41		358		3			32			460								3				435			1332

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: **182**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10409 Cds	Hardwood	1378 Cds
Hardwood	1151 Mbf	Hardwood	163 Mbf
Softwood	16367 Cds	Softwood	403 Cds
Softwood	597 Mbf	Softwood	13 Mbf
Sum TotVol	30272 Cds	Sum CutVol	2133 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1332		203	

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 182 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
17	Q5	138	77	28	mixed swamp conifer	immature		0	cleaning & weeding		
comnts Fmd : The Sunrise Grade snowmobile trail is the north boundary of the stand. Purple loosestrife has been found in this stand along the Sunrise Grade. There are small creeks and wet areas throughout the stand. Ponding along a drainage in the northeast is resulting in a pocket of dead trees. 98=B.Fir, B.Spruce Soil=Carbondale, Lupton, and Tawas soils											
18	C6	7	81	30	cedar	immature		0	cleaning & weeding		
comnts Fmd : The snowmobile trail is the north boundary of this stand. Purple loosestrife has been found in this stand along the Sunrise Grade. The Dry Branch of the Commencement Creek is within the stand. 98=B.Spruce & Tamarack Soil=Carbondale, Lupton, and Tawas soils											
22	M9	52		58	northern hardwood	unevenaged	selection	1			
comnts Fmd : Last thinned in 1991. Variable BA 70-120; thin to 80 BA where applicable. Mainly Sugar Maple, with a greater variety of species near the edges of the stand. Mark to encourage species diversity, and reproduction of Hemlock. Ancillary data suggests concentrating cutting in the 10-14" DBH classes. Do not cut during snowmobile season. 99=R.Maple, Beech, Basswood and Ironwood soil=Escanaba-Greylock complex, 1-6% slopes; and Charlevoix-Ensley complex, 0-3% slopes											
23	M6	54		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : Last thinned in 1991. Variable BA 70-140; thin to 80 BA where applicable. The snowmobile trail is the north boundary of the stand - do not cut during snowmobile season. Mainly Sugar Maple, with a greater variety of species near the edges of the stand. Mark to encourage species diversity, and reproduction of Hemlock. Ancillary data is available. Soil=Escanaba-Greylock complex, 1-6% slopes											
24	M6	83		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : The snowmobile trail is the north boundary of the stand - do not cut during snowmobile season. Last thinned in 1991. Variable BA 70-120; thin to 80 BA where applicable. More conifers near the edges of the stand. Scattered White Pine and Hemlock throughout. Encourage Hemlock reproduction, and species diversity. Discourage Aspen within 300 feet of Star Creek. Ancillary data is available. Soil=Paquin-Finch sands, 0-6% slopes											
26	S6	14	73	45	black spruce-swamp	mature	final harvest	2			
comnts Fmd : Cut all trees except Hemlock. May leave some White Pine. Will accept any combination of species present for regeneration. Winter cut to avoid rutting of soil. Soil=Carbondale, Lupton, and Tawas soils; and Ensley Muck											
Total Acres.....		348									

**Proposed Treatments
With Limiting Factors**

Compartment: 182 **Entry Year: 2008**

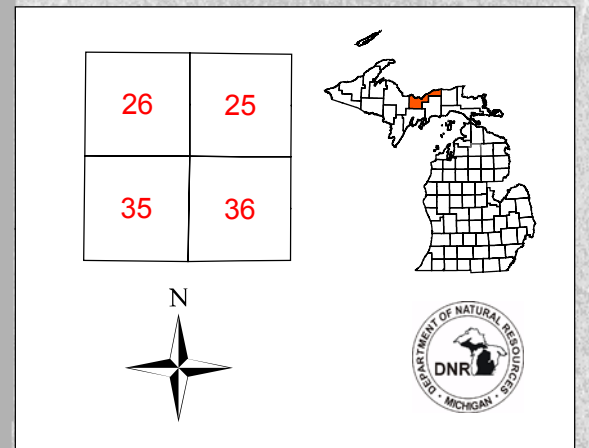
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 182
 T47N, R17W, Sec. 25, 26, 35, 36
 County: Alger
 Unit: Shingleton
 YOE: 2008
 Acres: 1,332 GIS Calculated
 Stand Examiner: Kristen Matson
 Map Revised: 10/12/2006
 Map Phase: Pre-review



Legend

- Miris Corners
- County Paved
- Gravel Roads
- Closed Roads
- Stand Boundary
- 061 - Cleaning-weeding
- 100 - Final Harvest
- 800 - Selection

