



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 39 ENTRY YEAR: 2007

Compartment Acreage: 2366 County: Schoolcraft

Revision Date: 9/15/2004

Stand Examiner: Adam Petrelius

Legal Description: T43N R16W Sections 19, 20, 29, 30

RMU (if applicable):

Management Goals: The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and Topography: The topography in this compartment is mostly flat, with slightly higher elevations existing on the islands of pine and aspen located with the marsh. Soils in the compartment support mixed pine/aspen stands, lowland brush/marsh, and lowland conifer species. The major soil types found within the compartment, in order of abundance, are Markey Mucky Peat, Rousseau-Neconish-Spot Complex, Carbondale-Lupton-Tawas Mucks, and Deford-Augres-Rubicon Deep Water Table Complex. The major habitat types within the compartment, in order of abundance, are Unclassified Wetland, PVE, PArVAa, and PArV. The entire compartment lies within the Mint Farm Land Type Association.

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

State land within this compartment was acquired between 1906 and 1974. Most of the land was tax reverted, but some was purchased and exchanged with both private individuals and the United States Forest Service. The entire western boundary of the compartment borders the United States Forest Service. The entire southern boundary borders state land. Approximately $\frac{3}{4}$ of the north and east compartment boundary borders state land. Adjacent land along the compartment boundary is owned by Newpage. A camp is located on the 120 acre parcel of private land that lies within the compartment boundary.

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

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations: A small portion of stands in this compartment are located within the deeryard, and are classified as a Special Conservation Area.

Watershed and Fisheries Considerations: Smith Creek is found in this compartment and is considered to be warm-water. Previous fishery surveys have found shiners, mudminnows, and dace. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

Wildlife Habitat Considerations: This compartment is on the south side of an area locally known as the Mint Farm. It is dominated by marsh/ low ridge and lowland shrubs. Smith creek traverses this compartment from north to south. The first surveyors reported that tamarack, spruce, and jack pine were the most common trees in forested areas. Other species recorded included red pine, aspen, white pine, white birch, cedar, and fir. Circa 1900, a large drainage ditch (The Big Ditch) was dug to drain this area for agricultural purposes. In the western portion of the compartment these efforts resulted in a lowered water table enabling the land to support more trees. Most of the marsh and lowland shrub areas remain fairly unchanged from pre-settlement times. However, areas that may have been altered by The Big Ditch now support an aspen community. Jack pine has replaced tamarack and spruce as the dominant tree species on the ridges within the marsh.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is up to 50 feet or insufficient data to determine the glacial drift thickness. The Ordovician Stonington and Big Hill Formations subcrop below the glacial drift. The Stonington and Big Hill could be used for stone/dolomite. Gravel pits are not located in this area and potential appears to be limited. There is no commercial oil and gas production in the UP, but a new location was staked five miles to the southeast.

Vehicle Access: The Smith Creek Truck Trail travels south through the compartment, and is the main route into state land located north of Indian Lake. This forest road is used by many landowners to access their camps. Plans are underway to replace the bridge located on Smith Creek. The western portion of the compartment is accessed from a forest road that parallels the Big Ditch. Most of the roads which branch off the 2 main forest roads into the compartment were created from past timber sales. Many of these roads are overgrown and of poor quality.

Survey Needs: None needed.

Recreational Facilities and Opportunities: There are no recreational facilities within this compartment. Opportunities include hunting, hiking, berry picking, and riding ORV's.

Fire Protection: Response time to fires within this compartment will be moderate to slow. Most of the old roads located within the compartment are narrow, wet, and would not support large fire equipment. This compartment has 2 water sources, Smith Creek and the Big Ditch. During dry summer conditions fires can burn in the deep organic soils found throughout most of this compartment. In the summer of 2005 a fire located on similar soil types burned 45 acres of USFS land just west of 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

SCHOOLCRAFT COUNTY

COMPARTMENT: 39

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			306																306
Black Spruce									12										12
Cedar						5							194						199
Grass	6																		6
Jack Pine		49	369		28		124		16										586
LowInd Brush	66																		66
Marsh	919																		919
Mx Swmp Cnfr					5														5
Red Pine		51	26					55	13	3	26	18							192
Spruce Fir		10																	10
Swamp Hrdwds							33	7											40
Tamarack		18																	18
White Pine										3	4								7
Total	991	128	701		33	5	157	62	41	6	30	18	194						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: 39

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	306																										306
S Black Spruce		12																									12
C Cedar				199																							199
G Grass					6																						6
J Jack Pine							586																				586
L LowInd Brush									66																		66
N Marsh											919																919
Q Mx Swmp Cnfr												5															5
R Red Pine							31									158										3	192
F Spruce Fir																			10								10
E Swamp Hrdwds																				40							40
T Tamarack																						18					18
W White Pine																										7	7
Total	306	12		199	6		617		66		919	5				158			10	40	18					10	2366

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **39**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	341 Cds	Hardwood	32 Cds
Softwood	8689 Cds	Softwood	193 Cds
Softwood	872 Mbf	Softwood	77 Mbf
Sum TotVol	10774 Cds	Sum CutVol	379 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	33
2366			

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 39

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
15	R1	31	4	50	jack pine	immature		0	planting		
<p>comnts Fmd : Stand was cut in the fall of 2001 contract # 46-97. Ftp # 41-834 scarification scheduled for the summer 2002. Stand was never scarified. Regeneration count was done as part of inventory. 50 jack pine, 140 red pine, 28 white pine, and 78 black spruce per acre. Stand was formerly jack pine prior to harvest. It is mostly upland, and these areas need to be trenched and planted with jack pine. Don plans to trench and handplant this site to jack pine.</p>											
16	R6	10	90	53	red pine	immature	shelterwood-prep	1			
<p>comnts Fmd : Stand consists of red and white pine logs surrounding a lowland pocket of spruce in the middle. Mark red and white pine to cut. Do not cut hemlock and oak. Protect existing understory with regeneration spec in timbersale. Habitat Type PVE.</p>											
52	R9	3	81	52	white pine	old growth (potential or actual)	shelterwood-prep	1			
<p>comnts Fmd : SCA - Deeryard. Understory is thick with white pine that are about 10 feet tall. Do not cut hemlock and oak. Do not cut any trees within 25 feet of Smith Creek. Cutting of trees within buffer area (25 to 100 feet away from creek) is permitted, but should be left at a higher basal area than the rest of the stand. Make sure regeneration is protected in timbersale spec. Habitat Type PVE.</p>											
53	R9	5	97	47	red pine	mature	removal	1			
<p>comnts Fmd : Understory is thick with 10 feet tall red pine, white pine, jack pine, and some aspen. Mark the pine to cut, and leave a few for aesthetics (about 10 sq. ft. basal area). These trees will also help seed in any areas of regeneration damaged by harvesting operations. Do not cut hemlock and oak. Protect understory with regeneration spec in timbersale. Acceptable alternative management objectives are jack pine, white pine, or aspen.</p>											
93	W8	3	83	52	white pine	immature	shelterwood-seed	1			
<p>comnts Fmd : Part of timber sale last year of entry. The spec in the sale mentioned to leave all red and white pine. This stand is a pocket of red and white pine surrounded by J3. The understory is mostly white pine that averages 5 feet tall where lower densities of mature pine exist. A lot of white pine seedlings, less than 1 foot tall, exist under the denser areas of mature pine. Mark these higher density areas of red and white pine to cut. This will allow some light to reach these seedlings. Acceptable alternative management objectives are jack pine or red pine. Do not cut hemlock and oak. Habitat Type PVE.</p>											
102	J4	4	31	60	jack pine	sparse	final harvest	1	natural regeneration		
<p>comnts Fmd : Stand is sparse with some open grown trees. Some aspen, red pine, white pine, and jack pine are present. Cut all species except hemlock and oak. Leave a few red and white pine for seed trees. Alternative acceptable management objectives include any species mixture that is currently present. If scarification fails, hand plant with jack pine. Habitat Type PVE.</p>											
103	J5	8	31	60	jack pine	low quality	final harvest	1	natural regeneration		
<p>comnts Fmd : Stand is sparse with some open grown trees. Some aspen, red pine, white pine, and jack pine are present. Cut all species except hemlock and oak. Leave a few red and white pine for seed trees. Alternative acceptable management objectives include any species mixture that is currently present. If scarification fails, hand plant with jack pine. Habitat Type PVE.</p>											
Total Acres.....		64									

**Proposed Treatments
With Limiting Factors**

Compartment: 39

Entry Year: 2007

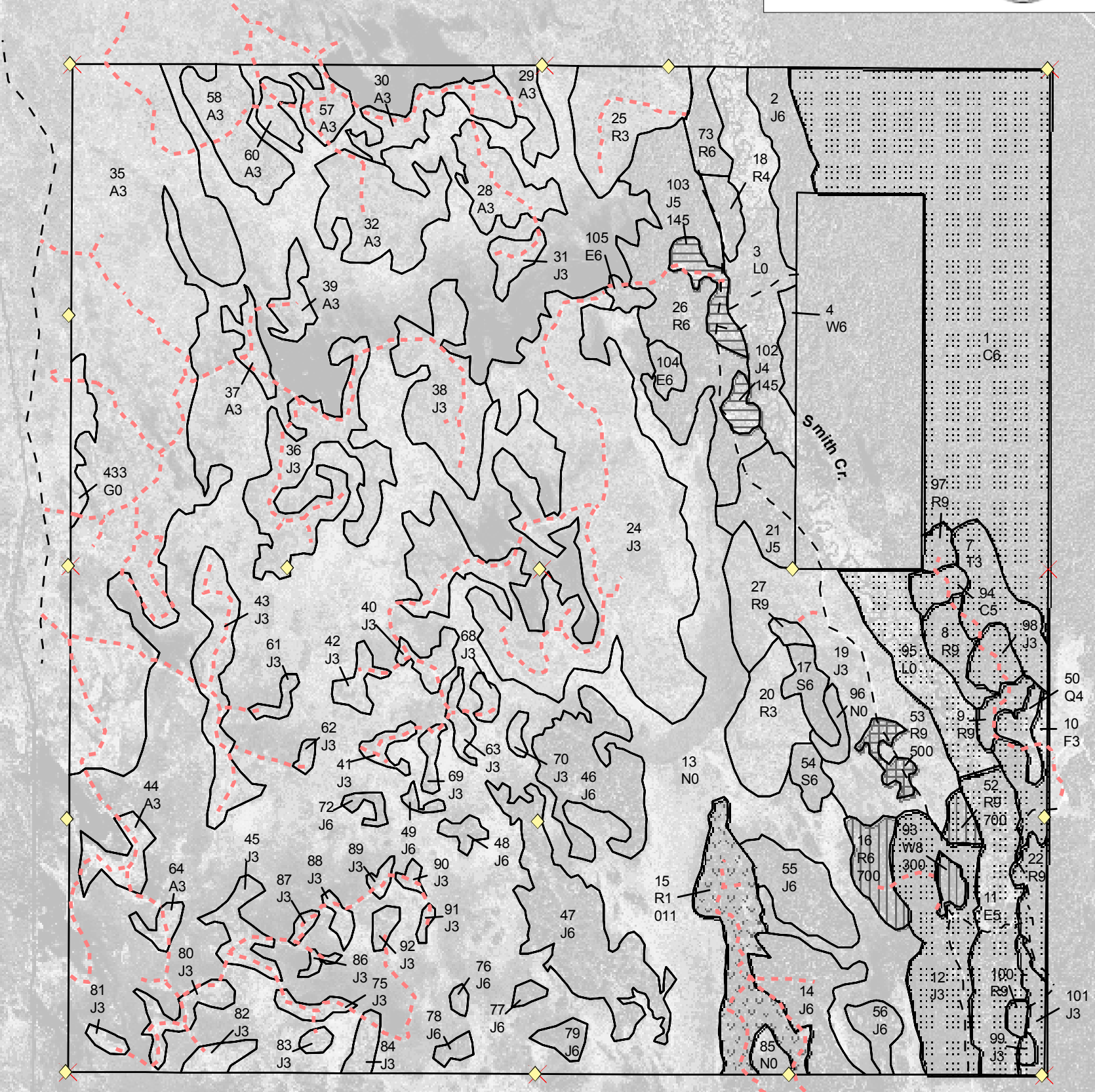
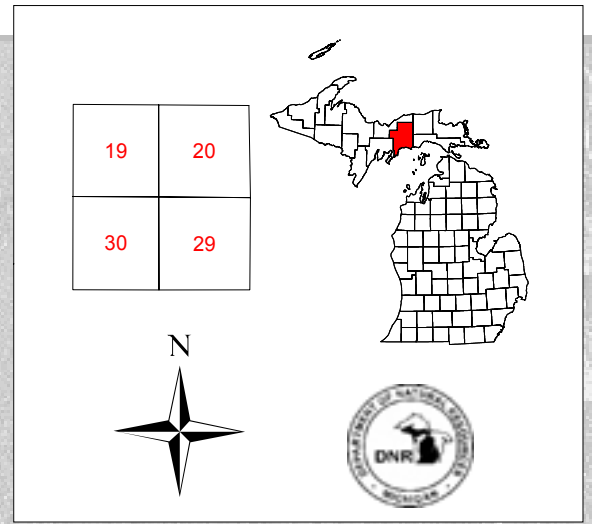
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 39
 T43N, R16W, Sec. 19, 20, 29, 30
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2007
 Acres: 2,366 GIS Calculated
 Stand Examiner: Adam Petrelus
 Map Revised: 9/30/2005
 Map Phase: Pre-review



Legend

- ◆ RLS Corners
- × GPS Corners
- - Poor Dirt Roads
- - - Closed Roads
- ▭ Stand Boundary
- ▨ Biodiversity/Old Growth Area
- ▧ 011 - Planting/Hand Tools
- ▩ 145 - Final Harvest/Natural Regeneration/Mechanical, other
- 300 - Shelterwood-seed
- 500 - Removal
- ▬ 700 - Shelterwood-prep

Name Water Features

