



**SHINGLETON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 195 ENTRY YEAR: 2007**

**Compartment Acreage: 871 County: Alger**

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**Revision Date:** October 5, 2005

**Stand Examiner:** Robert Tylka

**Legal Description:** T46N R17W Sections 20 and 29

**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:** The area generally features flat to slightly-rolling terrain. The uplands probably feature fine sand to loamy soils, while the lower areas vary considerably and are probably a mix of soils ranging from sands to muck and peat. Accurate soil survey data and upland habitat classification information are not complete at this time.

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

This compartment is immediately adjacent to the town of Shingleton. Many year-round homes and businesses are located on nearby private lands, and an electrical power transmission line crosses east-west through the compartment.

**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):** The old town dump is in this compartment.

**Special Management Designations or Considerations:** The eastern portion of this compartment is considered to be a part of the Petrel Deer Yard.

**Watershed and Fisheries Considerations:** Prairie Creek is found in this compartment and is classified as cold water. This stream supports a cold-water fishery community, including brook trout, and thus should be protected from inputs of sediments which cover spawning gravels. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

**Wildlife Habitat Considerations:** This compartment lies immediately north and east of Shingleton and makes up the southwest corner of the Petrel Deer Yard. Early surveyor's notes indicate that pre-settlement lowland forests supported hemlock, cedar, spruce, tamarack, and balsam fir. Upland forests consisted of hemlock, yellow birch, white pine, red maple and minor components of sugar maple & beech. Current lowland forests appear to contain similar species as were found in pre-settlement times. Upland forests appear to have less hemlock and more sugar maple, red maple, and aspen. Wildlife habitat objectives

include promoting hemlock, yellow birch, and black cherry in the hardwood stands, maintaining closed canopy conifer forest in the lowlands, and providing browse opportunities through the retention of aspen.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien (PdC) Formations subcrop below the glacial drift. The Black River is quarried for stone elsewhere in the UP. There is a gravel pit in Section 19 and there should be good potential. There is no commercial oil and gas production in the UP.

**Vehicle Access:** The compartment itself is bounded by Highway H-15 to the west and Highway M-28 to the south, but access to much of the area is limited by soft, wet terrain.

**Survey Needs:** Survey work may be needed to establish private land boundaries in the SW1/4 of section 29 to facilitate timber sale layout.

**Recreational Facilities and Opportunities:** The area receives a great deal of hunting pressure, and there is a heavily-used snowmobile trail through the compartment. There are no other developed recreational facilities.

**Fire Protection:** Access to most of the compartment is difficult due to the soft, wet ground.

**Additional Compartment Information:** The snowmobile trail crosses over Prairie Creek via a small bridge near the northwest corner of the compartment.

- **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: 195

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		23	38	27			11												99
Black Spruce								51	66										117
Bog or Marsh	4																		4
Cedar											19	22							41
Grass	76																		76
Lowlnd Brush	88																		88
Mx Swmp Cnfr			23	1			110	92	29		4								259
Non Stocked	22																		22
Paper Birch									2										2
Spruce Fir							15	14											29
Swamp Hrdwds								13	6			19							38
Treed Bog	26							12											38
Upland Brush			1																1
Upland Hdwds																		48	48
Water	9																		9
<b>Total</b>	<b>225</b>	<b>23</b>	<b>62</b>	<b>28</b>			<b>136</b>	<b>182</b>	<b>103</b>		<b>23</b>	<b>41</b>						<b>48</b>	<b>871</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: 195

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	99																										99
S Black Spruce		117																									117
V Bog or Marsh			4																								4
C Cedar				41																							41
G Grass					76																						76
L LowInd Brush									88																		88
Q Mx Swmp Cnfr												259															259
X Non Stocked													22														22
B Paper Birch															2												2
F Spruce Fir																			29								29
E Swamp Hrdwds												7								31							38
D Treed Bog																						38					38
U Upland Brush																								1			1
M Upland Hdwds																								48			48
Z Water																									9		9
<b>Total</b>	<b>99</b>	<b>117</b>	<b>4</b>	<b>41</b>	<b>76</b>				<b>88</b>			<b>266</b>	<b>22</b>		<b>2</b>				<b>29</b>	<b>31</b>		<b>38</b>	<b>1</b>	<b>48</b>	<b>9</b>	<b>871</b>	

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: **195**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2854 Cds	Hardwood	551 Cds
Hardwood	109 Mbf	Hardwood	33 Mbf
Softwood	5740 Cds	Softwood	670 Cds
Softwood	81 Mbf	Softwood	7 Mbf
Sum TotVol	8974 Cds	Sum CutVol	1301 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	71
871			

**SHINGLETON FOREST AREA**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 195**    **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>9</b>	<b>M9</b>	15		59	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : This stand features fairly good quality red maple and a lot of large hemlock. Mixed hardwood sawlog volume includes yellow birch, black cherry and a few sugar maple. Soils are classified as type 160B (Paquin-Finch sands, 0-6% slopes.)</p> <ul style="list-style-type: none"> <li>- Select cut this stand down to an average of about 100-120 sq.ft of basal area per acre including the hemlock, with considerable emphasis on aesthetics. Where little or no hemlock is present, the residual basal area should be 80-90 sq.ft. per acre.</li> <li>- Do not cut hemlock. When marking, select only trees that may be harvested without damaging the hemlock.</li> <li>- Retain the best quality trees in each size class, but be aware of the following: At present, there are few hardwood trees larger than 16" DBH, so place special priority on retaining healthy examples of all species in the larger size classes wherever possible. Keeping the larger beech should provide adequate numbers of den trees.</li> </ul> <p>Acceptable regeneration includes all hardwoods, conifers, aspen and birch.</p> <p>The snowmobile trail will not be used for operations related to this timber sale.</p>										
<b>10</b>	<b>M9</b>	10		59	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : This stand features fairly good quality red maple and a few sugar maple &amp; yellow birch. Soils are classified as type 160B (Paquin-Finch sands, 0-6% slopes.)</p> <ul style="list-style-type: none"> <li>- Select cut this stand down to an average of about 90 sq.ft of basal area per acre with considerable emphasis on aesthetics. Do not cut hemlock.</li> <li>- When marking, retain the best quality trees in each size class, but be aware of the following: 1) At present, there are few trees larger than 16" DBH, so place special priority on retaining examples of all species in the larger size classes wherever possible; and 2) Although there is an adequate number of snags present, most are in the smaller size classes. There are few current or potential den trees for wildlife, so protect them when reasonably possible. Acceptable regeneration includes all hardwoods, conifers, aspen and birch.</li> </ul> <p>The snowmobile trail will not be used for operations related to this timber sale.</p>										
<b>11</b>	<b>M6</b>	9		59	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : This stand features reasonably good quality red maple along with a few beech, yellow birch and conifers. It occupies slightly wetter ground than the adjacent hardwood stands. The understory is primarily a mix of balsam fir and red maple. Soils are classified as type 252A (Finch-Kinross complex, 0-3% slope.)</p> <ul style="list-style-type: none"> <li>- Select cut this stand down to an average of about 80 sq.ft of basal area per acre, with emphasis on aesthetics near the trail. Do not cut hemlock.</li> <li>- When marking, retain the best quality trees in each size class, but be aware of the following: At present, there are few trees larger than 16" DBH, so place special priority on retaining examples of all species in the larger size classes wherever possible. Acceptable regeneration includes all hardwoods, conifers, aspen and birch.</li> </ul> <p>The snowmobile trail will not be used for operations related to this timber sale.</p>										
<b>56</b>	<b>E6</b>	7	67	47	mixed swamp conifer	immature	final harvest	2		
<p>comnts Fmd : Poor quality aspen and birch are breaking up and dying out now, leaving a mix of red maple and conifers. This stand should be cut now along with the adjacent spruce in stand #57 - it may still be possible to regenerate a mix that includes some aspen. Acceptable regeneration includes all conifers, aspen and birch.</p> <p>Soils are classified as type 252A (Finch-Kinross complex, 0-3% slope.)</p>										
<b>57</b>	<b>S6</b>	19	64	42	black spruce-swamp	mature	final harvest	2		
<p>comnts Fmd : Black spruce that appears to be older than the given year-of-origin. This stand includes patches of mixed conifer and a few larger white pine logs. Ready to cut now. Acceptable regeneration includes conifers, aspen and birch.</p> <p>Soils are classified as type 252A (Finch-Kinross complex, 0-3% slope.)</p>										
<b>58</b>	<b>Q6</b>	11	75	40	mixed swamp conifer	two aged	final harvest	2		
<p>comnts Fmd : Fairly wet in places - stand composition and density vary considerably within this stand. The white pine logs are about 16-18" DBH. Unevenaged characteristics are rapidly developing. Cut now with the adjacent spruce in stand #57. Reserve all hemlock, and protect advanced conifer regen. Acceptable regeneration includes all conifers, aspen and birch.</p> <p>Soils are classified as type 252A (Finch-Kinross complex, 0-3% slope.)</p>										
<b>Total Acres.....</b>		<b>71</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 195**    **Entry Year: 2007**

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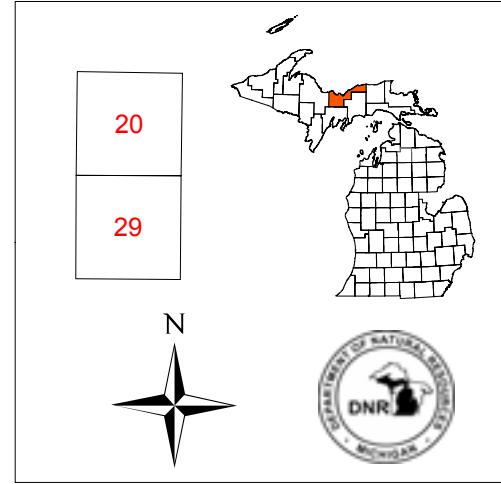
TREATMENT LIMITING FACTORS:

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

# Field Map

Compartment 195  
 T46N, R17W, Sec. 20, 29  
 County: Alger  
 Unit: Shingleton  
 YOE: 2007  
 Acres: 871 GIS Calculated  
 Stand Examiner: Robert Tylka  
 Map Revised: 10/03/2005  
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
  - ✕ GPS Corners
  - - - Poor Dirt Roads
  - ⋯ Trails
  - Railroads
  - Powerlines
  - ☐ Snowmobile Trails
  - ☐ State Highway
  - ☐ Stand Boundary
  - ▨ 100 - Final Harvest
  - ▩ 800 - Selection
  - Name Water Features

