



**SHINGLETON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 170    ENTRY YEAR: 2009**

**Compartment Acreage: 1961    County: Alger**

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**Revision Date:** 1/19/07

**Stand Examiner:** K. Matson

**Legal Description:** T47N, R17W, Sec. 1, 11-14

**RMU (if applicable):**

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

**Soil and Topography:** Upland hardwood areas of the compartment have mainly Garlic Sand, Kalkaska Sand, or Munising-Yalmer-Froling Complex, Calcareous Substratum of 0-15% slopes. Lower ground is generally Carbondale, Lupton and Tawas soils.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Mainly surrounded by state owned land and commercial forest land.

**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:** Moderate. Stoner 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:** This compartment lies northeast of Melstrand on the south side of H-58. Pre-settlement data show a composite of sugar maple, yellow birch, beech, and hemlock dominated the forest. Balsam fir and red maple were fairly common while white pine and elm were scattered. Cedar dominated the lowlands with elm, ash, spruce, and tamarack mixed in.

Current upland forests continue to be dominated by northern hardwoods. However, hemlock and yellow birch are substantially reduced and black cherry is much more prevalent than in the circa 1850 forests.

Wildlife habitat objectives include restoring hemlock into portions of this compartment, promoting the existing black cherry for mast production, and enhancing within and between stand structural diversity.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand & gravel, postglacial alluvium, 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 in Section 15 to the east and there should be potential. There is no commercial oil and gas production in the UP.

**Vehicle Access:** The majority of the compartment is accessible by trail roads.

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

**Recreational Facilities and Opportunities:** There are no developed DNR recreational facilities within the compartment; but the area is used for hunting.

**Fire Protection:** 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: 170

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
Grass	73																		73
Marsh	11																		11
Mx Swmp Cnfr		52					6	138											196
Non Stocked	11																		11
Spruce Fir					6		21												27
Upland Hdwds				23	66	75												1464	1628
Water	15																		15
<b>Total</b>	<b>110</b>	<b>52</b>		<b>23</b>	<b>72</b>	<b>75</b>	<b>27</b>	<b>138</b>										<b>1464</b>	<b>1961</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: 170

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
G Grass					73																						73
N Marsh											11																11
Q Mx Swmp Cnfr												196															196
X Non Stocked													11														11
F Spruce Fir																			27								27
M Upland Hdwds																								1628			1628
Z Water																									15		15
Total					73						11	196	11						27					1628	15		1961

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

ALGER COUNTY

COMPARTMENT: **170**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	23391 Cds	Hardwood	3304 Cds
Hardwood	1468 Mbf	Hardwood	64 Mbf
Softwood	2484 Cds	Softwood	80 Cds
Softwood	15 Mbf	Sum CutVol	3512 Cds
Sum TotVol	28841 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	464
1961			

## SHINGLETON FOREST AREA

Proposed Treatments  
With NO Limiting Factors

Compartment: 170 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
1	M6	28		53	northern hardwood	unevenaged	thinning	2	planting	
comnts Fmd : Along Co Rd H-58. Part of sale #24-95, returned to the state uncut. There is still faded orange paint visible. Re-mark to 80 BA, maintaining diversity. Some areas of dense balsam fir regeneration. See WLD comments about planting after thinning. Ancillary data is available. Could consider offering to D.O.C., depending on market conditions. 99=cherry, beech soil=Garlic Sand, 0-6% slopes										
Wld : This Stand types out as ATFD habitat type. It has a small component of white pine. In agreement with the Stand Examiner, WLD recommends enhancing the stand diversity by underplanting oak and hemlock after thinning.										
5	M6	35		55	northern hardwood	unevenaged	thinning	1	planting	
comnts Fmd : BA is variable - 80 to 150. Thin to 80 BA, maintaining species diversity. Ancillary data suggests concentrating cutting in the 8-10" diameter classes. See WLD comments about planting after cutting. soil= Garlic Sand, 0-6% slopes										
Wld : This stand types out as ATFD habitat type. It contains a fair amount of cherry as well as a small amount of hemlock. In agreement with the Stand Examiner, WLD recommends using cutting prescriptions which promote the cherry component and protect the hemlock. Underplanting oak and hemlock after the cutting is completed is also recommended.										
6	M6	14		55	northern hardwood	unevenaged	thinning	1		
comnts Fmd : Adjacent to H-58. Hilly terrain. Thin to 80 BA, maintaining diversity. Ancillary data suggests concentrating cutting in the 8-10" diameter class. 99/2=y.birch, beech 99/1=r.maple, s.maple, cherry, y.birch, beech soil=Kalkaska Sand, 6-15% slopes										
Wld : This stand types out as an AFOAs habitat type. The stand contains some yellow birch as well as black cherry and beech. No beech scale was observed. After discussions with the Stand Examiner and given the high productivity of this site, WLD does not recommend underplanting. However, a cutting regime that promotes the yellow birch is recommended. Additionally, promoting age class and structural diversity is desired.										
8	M6	43		53	northern hardwood	unevenaged	thinning	1	planting	
comnts Fmd : Adjacent to H-58. Originally part of sale #024-95, returned to state uncut. Old faded orange paint is visible. Remark to 80 BA, maintaining diversity. Do not cut on slopes toward pond (stand 51), maintaining shade over the pond. Consider offering to D.O.C., depending on market conditions. Ancillary data suggests concentrating cutting in the 8-10" diameter classes. See WLD comments about planting after cutting. 99=cherry, r.maple, s.maple 91=beech, w.spruce, b.fir soil= Garlic Sand, 0-6% slopes										
Wld : This stand types out as an ATFD habitat type. Although hemlock occurs within the stand, it is a minor component. WLD agrees with comments in the FMD comment section. In addition the Stand Examiner has agreed with WLD recommendations for underplanting hemlock and oak after cutting.										
11	M6	40		53	northern hardwood	unevenaged	selection	1		
comnts Fmd : Adjacent to H-58. Per discussion with WLD, we will manage this stand for Black Cherry. To favor black cherry regeneration: mark to cut using group selection, where the width of the groups is approximately twice the height of the mature trees. Residual BA should be between 50-90 sq ft/acre. 99/1=r.maple, s.maple, cherry soil=Kalkaska Sand, 0-6% slopes										
Wld : This stand types out as an AFPo habitat type and is dominated by black cherry. After discussions with the Stand Examiner, an agreement has been reached to manage this stand specifically for black cherry. FMFM will identify the best practice for accomplishing this goal.										
15	M6	20		50	northern hardwood	unevenaged	thinning	1	planting	
comnts Fmd : Next to H-58. Thin to 80 BA, maintaining diversity. See WLD comments about planting after logging. Consider offering to D.O.C, depending on markets. Ancillary data suggests concentrating cutting in the 8-10" diameter classes. 99=r.maple, beech soil=Kalkaska Sand, 0-6% slopes										
Wld : This stand types out as an ATFD habitat type. It contains a fair component of white pine. In agreement with the Stand Examiner WLD recommends a cutting regime that preserves some of the large white pine, protects the hemlock, and promotes black cherry. Upon completion of the cutting, oak and hemlock should be underplanted.										
17	M6	38		60	northern hardwood	unevenaged	thinning	1		
comnts Fmd : Part of sale #024-95, returned to state uncut. Faded orange paint is visible in some areas. Remark to 80BA, maintaining diversity. Very hilly terrain. Adjacent to H-58. Ancillary data suggests concentrating cutting in the 8-10" diameter classes. 99/1=cherry, beech, r.maple soil=Kalkaska-Cusino Complex, 6-15% slopes										
Wld : This stand types out as an AFOAs habitat type. The stand contains a fair amount of beech with no evidence of scale. There is also a small component of yellow birch within the stand. The Stand Examiner and WLD jointly recommend a cutting regime that does not discriminate against beech, promotes yellow birch, and creates age class and structural diversity.										
25	M6	53		54	northern hardwood	unevenaged	selection	1	planting	
comnts Fmd : Thin to 80 BA, maintaining diversity. See WLD comments about planting after cutting. Ancillary data suggests concentrating marking in the 8-12" diameter classes. 99/1=beech, s.maple Soil=Kalkaska Sand, 0-6% slopes										
Wld : This stand types out as an AFTD. In agreement with the Stand Examiner, WLD recommends cutting be conducted in a manner that promotes cherry, white pine, and birch. Do not cut hemlock. After cutting is complete, underplant hemlock, white pine, and oak.										

## SHINGLETON FOREST AREA

Proposed Treatments  
With NO Limiting Factors

Compartment: 170 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
<b>28</b>	<b>M6</b>	20		58	northern hardwood	unevenaged	thinning	1	planting	
comnts Fmd : Variable BA (60-150) - ridges with higher BA and more sugar maple, flat areas with lower BA and a greater variety of species. Thin to 80 BA where applicable, maintaining diversity. See WLD comments about planting after cutting. Stand borders H-58. Consider offering to DOC, depending on market conditions. Ancillary data is available. 99/2=beech, basswood 99/1=s.maple, beech soil=Kalkaska Sand, 0-6% slopes										
Wld : This stand types out as an AFPo habitat type. Although primarily a sugar maple stand, it does contain a variety of other tree species such as red maple, black cherry, beech and basswood. In agreement with the Stand Examiner, WLD recommends a cutting regime that promotes the species and structural diversity within the stand. Also it is agreed to further enhance the stand diversity by underplanting oak and hemlock after the cutting is completed.										
<b>30</b>	<b>M6</b>	66		60	northern hardwood	unevenaged	selection	1		
comnts Fmd : Hilly in the west, and rolling terrain to the east part of the stand. Thin to 80 BA, maintaining diversity. Ancillary data suggests concentrating cutting in the 8-10" diameter classes. 99/2=basswood, cherry soil=Kalkaska Sand 0-6% slopes										
Wld : This stands types out as an AFPo. In agreement with the Stand Examiner, WLD recommends cutting be conducted in a manner that maintains structural and species diversity.										
<b>33</b>	<b>M6</b>	17		54	northern hardwood	unevenaged	selection	1		
comnts Fmd : Hilly. Thin to 80 BA, maintaining diversity. Ancillary data suggests concentrating cutting in the 8-10" diameter classes. 99=cherry, beech, y.birch soil=Munising-Yalmer-Frohling Complex, Calcareous Substratum, 1-6% slopes										
Wld : This stand types out as an AFTD. The stand contains good advanced regeneration. In agreement with the Stand Examiner, WLD recommends cutting cherry within this stand in a manner that encourages stump sprouting. Do not cut hemlock.										
<b>35</b>	<b>M6</b>	63		55	northern hardwood	unevenaged	selection	1	planting	
comnts Fmd : Old orange paint - part of #024-95, returned to state uncut. Re-mark to 80 BA, maintaining diversity. Flat to slightly rolling terrain. See WLD comments about planting after cutting. Ancillary data suggests concentrating cutting in the 8, 10, and 16" diameter classes. 99=beech, ironwood, y.birch soil=Kalkaska Sand, 0-6% slopes										
Wld : This stand types out as AFTD. In agreement with the Stand examiner, cuttings should be conducted in a manner that promotes cherry, birch, and white pine. Do not cut hemlock. After cutting is complete, underplant hemlock, white pine, and oak.										
<b>37</b>	<b>M6</b>	27		55	northern hardwood	unevenaged	thinning	1	planting	
comnts Fmd : Slightly higher ground than the surrounding stands. Thin to 80BA, maintaining diversity. See WLD comments about planting after cutting. Ancillary data suggests concentrating cutting in the 6-10" diameter classes. 99=r.maple, s.maple soil=Munising-Yalmer-Frohling Complex, Calcareous Substratum, 1-6% slopes										
Wld : This stand types out as PARVAa to ATFD. It contains a mixture of red maple, cherry, hemlock, and white pine. In agreement with Stand Examiner, cut to encourage cherry. After cutting, underplant hemlock.										
<b>405</b>	<b>G0</b>	30			grass	nonstocked		0	opening maintenance	
comnts Fmd : Large grassy opening. Hardwood trees encroaching around edges. Scattered cherry, r.maple. Prescribed for opening maintenance. Soil=Kalkaska-Cusino Complex, 6-15% slopes										
Wld : Cut all merchantable trees.										

Total Acres..... 494

**Proposed Treatments  
With Limiting Factors**

**Compartment: 170**

**Entry Year: 2009**

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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>FD Status</b>
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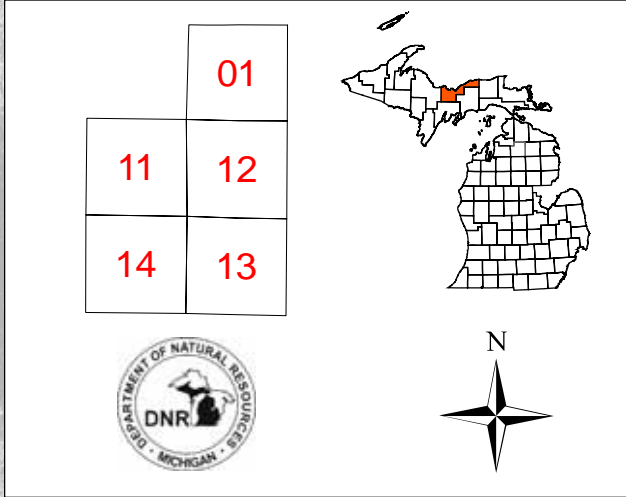
TREATMENT LIMITING FACTORS:

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

# Field Map

Compartment 170  
 T47N, R17W, Sec. 1, 11, 12, 13, 14  
 County: Alger  
 Unit: Shingleton  
 YOY: 2009  
 Acres: 1,961 GIS Calculated  
 Stand Examiner: Kristen Matson  
 Map Revised: 12/07/2007  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- Paved
- Gravel
- - - Poor Dirt
- - - Closed
- Stand Boundary
- ▨ 021 - Opening Maintenance/Hand Tools
- ▨ 400 - Thinning
- ▨ 411 - Thinning/Planting/Hand Tools
- ▨ 800 - Selection
- ▨ 811 - Selection/Planting/Hand Tools

