



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 39 ENTRY YEAR: 2007

Compartment Acreage: 2180(GIS calculated) County: Luce

Revision Date: 10/26/05

Stand Examiner: E. Rice

Legal Description: T49N R9W Sections 2, 3, 10, 11, 14 & 15

RMU (if applicable):

Management Goals:

Promote multiple aged and diversified tree species where possible to reduce forest pest impacts and improve conditions for wildlife species. Retain/enhance the quality of recreational uses of the area. Provide for consistent, sustainable wood fiber production over the long term.

Soil and Topography:

Majority Rubicon sands with Dawson soils adjacent to leatherleaf/sedge areas and Little Pike Lake. Topography consists of flat to shallow rolling uplands. Small inclusions of steep, sandy ridges and open leatherleaf/sedge basins interspersed in the southeast.

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

Compartment is bounded for the most part by state land where active forest management is occurring. In the south, the compartment is bordered by private land. Heavy recreational ORV use and berry picking, forest management, and recreational camping via Pike Lake Campground are the majority land uses.

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

Included is the proposed Barclay Lakes Natural Area, approximately 4 miles of ORV trail, and the Pike Lake Campground. The Little Two Hearted River runs along the east side of the compartment. Several stands have small leatherleaf/sedge complexes within that typically hold water, excepting the driest of years.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

None identified

Special Management Designations or Considerations:

Proposed Barclay Lakes Natural Area. Several small leatherleaf/sedge meadows should be addressed for reserve areas as active management proceeds in the respective stands. Two stands, (Stands 71, 72) have potential for designation as special conservation areas (SCA) for prospective old growth.

Watershed and Fisheries Considerations:

Fisheries Values

Good-to-Excellent. The Little Two-Hearted River is classified as trout water. It is very small, but even though we do not stock it, it still produces some nice trout. However, there is a large sand bedload in the

river. Fisheries Division intends to begin active habitat enhancement in about 5 years. The Little Two-Hearted River supports good fisheries for seasonal steelhead and salmon as well as native brook trout. Little Pike Lake is also included in the compartment. We tried to survey it in 2003, and it was basically a mud bog with no open water.

Wildlife Habitat Considerations:]

Compartment 39 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is almost entirely jack pine. Stands in the central part of the compartment have a heavy oak component but generally the compartment has poor diversity.

Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. Oak, red and white pine will be retained compartment wide. Leave trees will provide food sources, nest and den locations and improved stand diversity. Species utilizing this compartment include white-tailed deer, black bear, moose, gray wolf, American marten, fisher, and ruffed and spruce grouse.

Mineral Resource and Development Concerns and/or Restrictions: None identified

Vehicle Access:

Two wheel drive access is well developed, many areas of sand blow outs in the roads. Established fire lanes exist along the section lines along with interior access roads. Improved, gravel county roads run along both the north boundary of the compartment and through the compartment in the south.

Survey Needs:

There are existing corner records, however many corners and/or evidence appear to have been obliterated due to many corners falling within fire lane roads. There are several corners that have been remonumented. One corner is needed to be set along the east side of the compartment in order to facilitate the proposed timber sale setup adjacent to private land.

Recreational Facilities and Opportunities:

Pike Lake Campground, a segment of the Two Hearted ORV Trail.

Fire Protection:

As part of the Two Hearted Zone Dispatch Area it has the potential for large fire runs because of the continuous Jack Pine fuel type. Private property adjacent to this compartment around Pike Lake and Little Two Hearted River could be at risk to wildfires.

Additional Compartment Information: None

- **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**

11/10/2005 8:56:49 AM

Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 39

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																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		All Aged
Bog or Marsh	14																		14
Hemlock										7									7
Jack Pine		544	284	16	86	305	330	382											1947
Lowlnd Brush	28																		28
Oak			43																43
Red Pine					11		7	11										6	35
Treed Bog	61																		61
Water	27																		27
White Pine											15	3							18
Total	130	544	327	16	97	305	337	393		7	15	3						6	2180

11/10/2005 8:57:04 AM

Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE 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
V Bog or Marsh			14																								14
H Hemlock						7																					7
J Jack Pine							1934							7												6	1947
L Lowlnd Brush									28																		28
O Oak							43																				43
R Red Pine																24										11	35
D Treed Bog																							61				61
Z Water																									27		27
W White Pine																										18	18
Total			14			7	1977		28					7		24							61		27	35	2180

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **39**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3456 Cds	Softwood	5047 Cds
Hardwood	10 Mbf	Sum CutVol	5047 Cds
Softwood	16413 Cds		
Softwood	265 Mbf		
Sum TotVol	20419 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	234
2180			

NEWBERRY FOREST MGT UNIT

**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
6	J6	99	55	50	jack pine	two aged	final harvest	1	natural regeneration	
<p>comnts Fmd : Scattered inclusions of lower stocking (open grown) jack pine-possible reserve area islands in a cut. Pockets of high mortality throughout stand. Sparse JPBW evidence at south end of stand. Reserve residual red/white pine and any oak. Leave a short distance for a corridor between this proposed harvest and that of stands 24/25, which are also proposed. Mechanical scarification with regen monitoring. Management objective is for jack pine, no alternative MO.</p> <p>Wld : leave red and wite pine and oak</p>										
24	J6	58	66	50	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Moderate to heavy mortality evident. Overall well formed jack pine, 6-10" dbh. Retain red/white pine residual along with any associated oak. Small areas of submerchantable jackpine scattered throughout stand. Combine with Stand 25 for proposed treatment. Mechanical scarification with regen monitoring. Management objective is to regenerate jack pine, no alternative MO.</p> <p>Wld : retain red and white pine and oak</p>										
25	J6	37	59	50	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Overall well formed jack pine, 5-10" dbh. Moderate mortality, scattered tip flagging from JPBW. Retain associated red/white pine along with any oak that may be present. Areas of submerchantable jack pine inclusions. Combine with Stand 24 for proposed management. Mechanical scarification with regen monitoring. Management objective is to regenerate jack pine, no alternative MO.</p> <p>Wld : retain red and white pine and oak</p>										
27	J6	11	66	60	jack pine	immature	final harvest	1	natural regeneration	
<p>comnts Fmd : Well formed jack pine, 18% mortality. Red pine polet and red maple sapls in understory. Retain both in a proposed treatment along with any associated oak. No new landings should be required-utilize old logging road just to north of stand for a back in turnaround. Keep a corridor in the adjacent jack pine polet stand to the west (St.19) to provide a buffer between this treatment and Stand 28. Since this is a small acreage, include with Stands 24/25 treatment. Mechanical scarification with regen monitoring. Management objective is jack pine, no alternative MO.</p> <p>Wld : leave red and white pine, oak and red maple</p>										
45	J6	22	65	50	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Stand is in decline, high incidence of windfall/mortality. 4-6 stick jack pine, 7-11" dbhs. Leave red/white pine, red oak, and mixed hardwood. Protect spruce and balsam fir sapls. Residual trees and slope leading upwards from Co Rd 414 should help sheild the view of Stand 33 (regenerating jack pine) to the north. ORV trail runs along north edge of stand. Mechanical scarification with regen monitoring. Management objective is jack pine, no alternative MO.</p> <p>Wld : leave red and white pine, oak and mixed hardwoods</p>										
64	J6	7	67	50	oak	high risk	final harvest	1		
<p>comnts Fmd : Jack pine is old age and highly deteriorating/mortality. Leave residual white, red pine, red oak, red maple. Good advanced regen of red oak and red maple. Tie in treatment of this stand with Stand 45. Management objective is for red oak, given the advanced regen present and residual polet. Secondary MO is for jack pine.</p> <p>Wld : leave red and white pine, oak and maple</p>										
Total Acres.....		234								

**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	FD Status
--------------	-----------------------	--------------	------------	-----------------------	--------------------	------------------	-----------------------	-----------------------------	--------------------------	----------------------

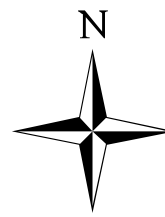
TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 39
 T49N, R9W, Sec. 2, 3, 10, 11, 14, 15
 County: Luce
 Unit: Newberry
 YOE: 2007
 Acres: 2,180 GIS Calculated
 Stand Examiner: Edward Rice
 Map Revised: 11/02/2005
 Map Phase: Pre-review

03	02
10	11
15	14



Legend

- RLS Corners
- RLS-PVT Corners
- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- Trails
- ORV Trails
- Campground
- Stand Boundary
- Biodiversity/Old Growth Area
- 100 - Final Harvest
- 145 - Final Harvest
- Natural Regeneration/Mechanical
- Name** County Gravel Roads
- Name** Water Features

