



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 84 ENTRY YEAR: 2007

Compartment Acreage: 7649 (GIS Calculated) County: Luce

Revision Date: 11/06/05

Stand Examiner: Keith Magnusson

Legal Description: T47N R10W Sections 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 23, 24 & 25

RMU (if applicable):

Management Goals:

Wildlife, fisheries along with some timber production is the main uses of this area. The goal is to maintain a healthy, sustainable forest ecosystem with special emphasis on unique forest communities and wildlife habitat.

Soil and Topography:

The soil in this compartment is mostly made up of a complex of sandy ridges mixed in with level lowland peat soils. The ridges are subtle and narrow for the most part. The forested cover types in the lowland peat soils are typically marsh or treed bogs. The ridges are typically forested with pine, spruce and aspen with some of the richer upland soils having maple, beech, hemlock and white pine.

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

The entire compartment is State owned. The compartment is bordered by State land to the north and to the east. The west boundary is bordered by private corporate land and the south boundary is bordered by private land. There is one isolated '40' of private land on the east boundary of the compartment. Much of this compartment has avoided development due to its remoteness and lowland nature. The land in this compartment is mostly used for hiking, hunting, wildlife viewing, with some fishing and timber production.

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

The nature of the wide open marshes and narrow sand ridges within this compartment are unique and natural features to this area. Sleeper Lakes border the northwest corner of the compartment. Murphy Creek and Auger Creek both flow through and out of this compartment area. This is a large area that is for the most part roadless and has had little disturbance in the past 40 years. It has avoided development due to its remoteness and lowland nature.

MNFI has identified patterned fens in this compartment as well as a many unique plants. They also list the potential for loon, merlin, eagle, osprey, goshawk, yellow rail, spruce grouse, moose and wolf.

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

The Bureau of History does not list any historical features.

Special Management Designations or Considerations:

For the most part, this compartment is large area of wetland marshes with narrow sand ridges irregularly scattered throughout. Most of the compartment is remote with very difficult access due to the lowland forest types and lack of roads. Because of this, it is a large block of unbroken land and has avoided development, offering ideal habitat for many wildlife species. While most of the ridges in this compartment were logged once, the feasibility of timber production could be questioned. New road building and winter conditions would be needed to access much of the compartment for timber harvesting. Most ridges contain little timber volume for the effort it that would be needed to get there. These issues should be factored in when making land management decisions for this compartment.

Watershed and Fisheries Considerations

Fisheries Values

Poor. Auger Creek north and west of M-123 is designated trout water. Even so, that entire stretch is beaded with beaver dams, which block trout spawning migration and warm the water. Angler access is limited as well, making a successful fishing trip in this system difficult for any non-locals. Murphy Creek is not designated for trout. It is unknown whether it supports any other sports fish fishery.

Wildlife Habitat Considerations:

Compartment 84- This large compartment is located in the Seney Sand Lake Plain ecological sub-subsection. It is largely comprised of low, wet habitats with jack and red pine ridges and scattered tamarack and swamp conifer stands. Current species composition for this compartment appears to represent what was described in presettlement records.

Murphy creek runs through the compartment and provides an excellent wildlife travel corridor. Encouraging structural and species diversity in managed stands will benefit wildlife species. All white and red pine and cedar will be preserved in harvested stands. Species of special interest potentially using this stand include moose, gray wolf, bear, otter, mink and numerous marsh birds.

Mineral Resource and Development Concerns and/or Restrictions: Sections 1 - 4, 9 – 15 & 22 – 26, T47N-R10W, Luce County

Surface sediments consist of peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are quarried for limestone/dolomite in the UP. There are no gravel pits in the area, and potential appears to be limited. There is no economic oil and gas production in the UP, although there was a recent well drilled in Schoolcraft County.

Vehicle Access:

The main access into the east side of this compartment is via the Williams road which leads west off of M-123. The Williams Road basically 'dead-ends' at a private hunting camp on the east edge of the compartment. From that point there is an old logging leading north and then west across a series of ridges which eventually lead to County Road 407. There is another old logging road leading west from this camp that eventually 'dead-ends'. Both of these old logging roads are currently drivable by ORV and have been used/maintained by hunters. The northeastern edge of the compartment can be accessed via the Fossitt Road which leads west off of M-123. This road also 'dead-ends' at the eastern edge of the compartment where it turns into an abandoned logging road that has grown in. All other logging roads have grown in and have become abandoned or non-existent. M-123 offers access on the very southern edge of the compartment. Overall, the compartment is extremely remote and is accessed mainly by foot.

Survey Needs:

If harvesting treatment occurs, the following corners are needed: W1/4 Corner of Section 25, the S1/16 between sections 25 and 26, SW 1/16 of Section 25, and a survey breakdown of the S1/2SE1/4 of Section 25

being there is an odd parcel of State land there. In addition, we will need the E1/16 of Section 13 along the south boundary of PVT land if treatment occurs in this area.

Recreational Facilities and Opportunities:

Opportunities for hiking, hunting, fishing and wildlife viewing exist throughout the entire compartment.

Fire Protection:

Due to the remote nature of this area, it would be very difficult to suppress a wildfire in this compartment. A special fire management plan should be created and implemented on how to handle wildfires for these areas.

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**

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

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 84

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								3											3
Black Spruce									112	77	30								219
Cedar								7		14									21
Jack Pine					55	80		18	104	70	144								471
Lowlnd Brush	16																		16
Marsh	3123																		3123
Mx Swmp Cnfr									16	40	99	5			70			49	279
Paper Birch									20									2	22
Red Pine					1					24	124							133	282
Swamp Hrdwds						7												25	32
Tamarack									109	54	7								170
Treed Bog	2861																		2861
Water	37																		37
White Pine							14			12	54	5						28	113
Total	6037				56	87	14	28	361	291	458	10			70			237	7649

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

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 84

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	3																										3
S Black Spruce		219																									219
C Cedar				21																							21
J Jack Pine							471																				471
L Lowlnd Brush									16																		16
N Marsh											3123																3123
Q Mx Swmp Cnfr												279															279
B Paper Birch															22												22
R Red Pine																282											282
E Swamp Hrdwds																				32							32
T Tamarack																						170					170
D Treed Bog																							2861				2861
Z Water																									37		37
W White Pine																										113	113
Total	3	219		21			471		16		3123	279			22	282				32	170	2861			37	113	7649

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **84**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1922 Cds	Hardwood	330 Cds
Hardwood	11 Mbf	Softwood	1316 Cds
Softwood	13254 Cds	Softwood	65 Mbf
Softwood	1646 Mbf	Sum CutVol	1776 Cds
Sum TotVol	18490 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	106
7649			

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 84

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
177	B6	2	70	50	paper birch	mature	final harvest	3		
<p>comnts Fmd : If treated, leave any WP and cedar. Soil=Paquin/Finch. Wld : leave cedar and white pine</p>										
178	B6	10	70	52	paper birch	mature	final harvest	3		
<p>comnts Fmd : If treated, leave any WP and cedar. Soil=Paquin/Finch. Wld : leave white pine and cedar</p>										
179	S6	2	70	49	black spruce-swamp	mature	final harvest	3		
<p>comnts Fmd : Nice stand of spruce. There is a squared R. Maple tree~10"DBH marked as the SW1/16 of Sec. 25. Line is in on the east side.</p>										
180	S5	7	70	40	black spruce-swamp	mature	final harvest	3		
<p>comnts Fmd : Stand falls in a lower area that drains towards the Auger Creek. Treat if surrounding stands are treated. Wld : leave any pine that exists</p>										
186	J6	18	67	48	jack pine	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Stand is mostly a jack pine/spruce mix. RP/WP mixed in with some aspen, p.birch. There are upland sand ridges and lowland swales. JP on high ground, spruce in lower ground. Old roads with the stand. If treated, cut JP, spruce, aspen and birch, leave RP/WP, may have to mark some of it to operate in stand. Would be best to use the existing road leading through the PVT land. Trash in this stand along the woods road, an old bus, refrigerators, wash machine, etc. Soil=Rousseau/Spot complex. Timber that was cut to the south of this stand on PVT land has excellent regeneration of JP, aspen and spruce. Wld : leave red and white pine unless needed for maneuverability</p>										
Total Acres.....		39								

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 84

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
123	R9	31		50	red pine	two aged	selection	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available)										
comnts Fmd : Stand has some nice RP. If treated, harvest all JP, Aspen, and Spruce; mark red and white pine. Access to the stand is via the Williams Road. The road is sandy and occurs along the back of a ridge that is steep in places. This road would need improvement if the stand is treated.										
Wld : leave paper birch, oak and a white pine component										
124	S6	4	69	40	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available)										
comnts Fmd : Stand falls at the bottom edge of a ridge, decent spruce. If treated, the Williams Road will need to be improved, it is currently sandy and steep in places. Soil=Spot.										
Wld : leave white pine										
125	J6	27	69	48	jack pine	mature	final harvest	2	natural regeneration	
TREATMENT LIMITING FACTORS: Road needed (resources not presently available)										
comnts Fmd : Rolling topography with some low areas between ridges. Spruce/JP mix in lows. Some areas within the stand have areas of higher BA in RP. These areas will have to be marked to improve maneuverability for harvesting to occur. The access the stand is via the Williams Road. It is sandy and steep in places. It will need to be improved to treat stand. Evidence of light jack pine budworm activity. Soil=Rousseau/Spot complex.										
Wld : leave red pine except what needs to be cut for maneuverability										
128	S6	5	69	40	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available)										
comnts Fmd : If stand is treated the Williams Road would need to be improved. It is sandy and steep in places. Soil = Spot.										
Wld : leave red and white pine if any within the stand										
Total Acres.....		67								

