



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 101 ENTRY YEAR: 2008

Compartment Acreage: 1590 (GIS Calculated) County: Luce

Revision Date: 9/6/06

Stand Examiner: Keith Magnusson

Legal Description: T46N R11W Sections 4, 5, 7, 8 & 9

RMU (if applicable):

Management Goals:

Timber, wildlife and fisheries are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses by maintaining forest productivity, forest health, species diversification, and age class diversification through silvicultural and natural processes.

Soil and Topography:

The compartment is situated on the edge of an upland sandy outwash of Kalkaska, Paquin-Finch and Wallace Sands which is adjacent to the Tahquamenon River Swamp Complex. This upland area is level to rolling and has good access. The forested types are mostly upland species of hardwood, aspen and pine that range from well to poorly stocked. East Creek flows through the center of the compartment area from north to south and has very steep side hills in places.

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

The compartment area is predominately State owned with private land holdings in Sections 4 and 5. The compartment is surrounded by State land to the north, corporate land on the east and west sides and private land along the southeast and southern edges. Most of the private land holdings have hunting camps/cabins and are used primarily for recreational purposes. This entire area has been managed for timber production in the past and is used for an assortment of recreational opportunities.

Unique, Natural Features:

East Creek and the steep topography flanking its sides. MNFI lists the potential for such species as wood turtle, red-shouldered hawk, goshawk, 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:

Best Management Practices Guidelines (BMP) shall be followed with any management near or adjacent to water courses within the compartment boundaries.

Watershed and Fisheries Considerations

Fisheries Values

Good-to-Excellent. East Creek is classified as FQCW. Although not actively managed by MDNR, it still benefits from many years of previous brook trout stocking. It should be protected as much as possible from streambank erosion. The corridor should also be managed to discourage beaver activity. In fact, beaver activity was the main reason that active management ceased during the 1960's. This creek should be protected from encroachment by aspen.

Wildlife Habitat Considerations:

Compartment 101 lies in western Luce County in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is dominated by white pine and northern hardwood stands with a few scattered small aspen and red pine stands, herbaceous openings and marshes intermixed. The compartment lies adjacent to the McMillan deer yard. Pre-settlement vegetation patterns appear to be consistent with current vegetation in this region of the subsection.

Wildlife objectives will be achieved by the retention of hard and soft mast producing trees, wildlife den and nest trees and snags in harvested stands and the preservation of conifer components in aspen and hardwood stands. Buffer zones along streams and rivers should be sustained to preserve travel corridors and wetland wildlife values and habitats. White-tailed deer, gray wolves, coyote, fox, black bear, fisher, marten, otter and mink are noteworthy wildlife species potentially using this compartment.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 4, 5 & 7 - 9, T46N-R11W, Luce County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Utica Shale subcrop below the glacial drift. The Stonington could be used for stone. There are no gravel pits in the area, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

The compartment is located approximately 4 miles north of McMillan. The main access leading from McMillan to the compartment area is County Road 415, which is maintained all year. County Road 442 (which is a seasonal county road), Silver Creek Truck Trail and Bailey's Trail all stem off from County Road 415 and it provide further access into the compartment. There are several two track roads, ranging from poor to good, leading off these main roads giving further access into the compartment.

Survey Needs: The W1/16 between Sections 6 and 7; the W1/16 of Section 7

Recreational Facilities and Opportunities:

The compartment is used for an assortment of recreational opportunities such as fishing, hunting, ORV riding, wildlife viewing, snowmobiling etc. There are a significant amount of heavily used private hunting camps on the private land in and around the compartment.

Fire Protection:

Large fire potential in this compartment is low because of smaller stands of conifer intermixed with hardwoods and moderate response times. Topography in this area may be challenging for heavy equipment operation.

Additional Compartment Information:

There are 2 separate piles of trash along the two track road leading off of County Road 442 and into stands 42 and 31. The trash consisted of drywall scraps, household garbage, small appliances, etc. If time and/or money are available, it should be picked up.

- **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: 101

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			31		7			4	34										76
Black Spruce			5				3												8
Grass	31																		31
Hemlock																		21	21
Lowlnd Brush	4																		4
Marsh	7																		7
Mx Swmp Cnfr					9				10									28	47
Non Stocked	7																		7
Red Pine						46													46
Spruce Fir				49	70		23		12										154
Tamarack							5												5
Upland Brush	42																		42
Upland Hdwds				25		9	40	5										841	920
White Pine			2	1	34				21		53							111	222
Total	91		38	75	120	55	71	9	77		53							1001	1590

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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: 101

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	76																										76
S Black Spruce		8																									8
G Grass					31																						31
H Hemlock						21																					21
L Lowlnd Brush									4																		4
N Marsh											7																7
Q Mx Swmp Cnfr												47															47
X Non Stocked													7														7
R Red Pine																46											46
F Spruce Fir																			154								154
T Tamarack																						5					5
U Upland Brush																								42			42
M Upland Hdwds																								920			920
W White Pine																										222	222
Total	76	8			31	21			4		7	47	7		46			154			5		42	920		222	1590

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **101**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12943 Cds	Hardwood	1447 Cds
Hardwood	763 Mbf	Hardwood	64 Mbf
Softwood	5688 Cds	Softwood	1235 Cds
Softwood	1048 Mbf	Softwood	47 Mbf
Sum TotVol	22253 Cds	Sum CutVol	2904 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	217
1590			

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 101 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
7	W9	9		52	white pine	unevenaged	delayed removal	3		
<p>comnts Fmd : Large limby w. pine and older/poor quality aspen that are dying out. B. fir, white pine, aspen, maple reproduction. Could harvest aspen, balsam, spruce, r. maple. Possibly mark some larger white pine. PVT land to the south was clearcut about a year ago. Soil=Finch Sand.</p> <p>Wld : leave some larger white pine</p>										
10	W9	7		52	white pine	unevenaged	delayed removal	3		
<p>comnts Fmd : Large limby white pine with a mix of aspen that is poor quality, old and dying out. Spruce and balsam mixed throughout. White pine regen is abundant.</p> <p>Wld : leave some larger white pine</p>										
14	W9	7		55	white pine	unevenaged	delayed removal	3		
<p>comnts Fmd : Stand is mostly situated along a small ridge. It is a mixed bag of aspen, spruce, r.maple and balsam, all overtopped by large white pine. Records on an improvement cut in the early 1970's.</p> <p>Wld : leave some larger white pine</p>										
17	F6	8	56	50	spruce-fir (uplands- including upland black spruce)	mature	final harvest	3		
<p>comnts Fmd : An intermittant stream/wash flows through the center of this stand. No water now but it is soft in the gully bottom. Use best judgement when assessing and placing sale boundary lines if treated. Soil=Paquin-Finch Sand.</p>										
19	M6	3		58	northern hardwood	unevenaged	delayed removal	3		
<p>comnts Fmd : Stand is mostly r. maple with some sugar maple and b.cherry. S. maple is poor quality. R. maple is not that great of quality either. Stand has been treated in the past, stumps present. Abundant r. maple saps in the understory. Treat when adjacent stand to the west is treated. Stand was thinned in the early 70's; T.sale#5-73.</p> <p>Wld : leave a conifer component , including some super canopy white pine.</p>										
22	A9	27	76	58	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Stand is a mix of aspen, b.fir, spruce and white pine. Some very large DBH aspen in here. B.fir is doing very well in here, thick in places, 2-5 sticks. W.pine sawtimber overtopping most everything, large DBH. Regen is b.fir, r.maple, aspen.</p> <p>Wld : leave white pine</p>										
33	W9	34		55	white pine	unevenaged	selection	3		
<p>comnts Fmd : Nice clumps of hemlock and white pine, white pine is of nice sawlog quality. Ground in here is seasonally wet in places. Nice spruce/balsam in stand as well. Stand is variable, edges are stand are poor quality hardwood with a mix of balsam/spruce. Soil=Wallace/spot complex.</p> <p>Wld : leave some large white pine</p>										
63	Q6	10	76	46	mixed swamp conifer	mature	final harvest	3		
<p>comnts Fmd : Intermittant gully wash, no water in here now. Harvest in winter months or dry summer if treated. Soil=Pacquin/spot complex.</p> <p>Wld : leave any hemlock and cedar</p>										
79	M6	45		55	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : Poor quality hardwoods. Stand has a mix of hemlock, white pine and spruce throughout. Beech has scale and is dying out. Thick reproduction of maple, b.fir saplings throughout. Some white pine, hemlock, spruce regen as well. 99=49,04,07. Very low on the harvest priority.</p> <p>Wld : leave hemlock, a yellow birch component, and some large diameter white pine</p>										
94	M6	47		55	northern hardwood	unevenaged	delayed removal	3		
<p>comnts Fmd : Stand was treated in 1978, T.sale#17-77A. Some sugar maple present, but it is low quality, as is the red maple. Beech has scale. Abundant maple sapling regen. Along with thickets of b.fir regen.</p> <p>Wld : leave yellow birch and a conifer component</p>										
111	R6	9	45	59	red pine	mature	thinning	1		
<p>comnts Fmd : Plantation has never been thinned. Third row thin. Stand was planted in 1961. Spacing looks to be tight in some areas, may have to mark some in adjacent rows to the 'take' row. 4-5 stick trees, 6-12"DBH.</p> <p>Wld :</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 101 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
112	A5	7	76	50	aspen (upland)	two aged	final harvest	2		
<p>comnts Fmd : Stand is a mixed bag of older aspen and spruce, red maple. Regeneration of b.fir, aspen, maple is thick in most places. Harvest aspen, balsam, spruce, red maple and cherry. Leave white pine. Gully leading to East Creek on SW corner of stand. Boundary of stand may be difficult to determine, area was treated in 1974 and timber was left behind causing multiple age classes of aspen, spruce. Use best judgement when painting line if treated. 99=49,03.</p> <p>Wld : leave a couple of large spruce and white pine.</p>										
114	A5	4	60	52	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Mature aspen, it is currently dying and beginning to break apart. Fairly open understory as compared to surrounding stands. Bushy poor quality white pine, poor form cherry present. Hazel brush on ground.</p> <p>Wld : leave a conifer component</p>										
Total Acres.....		217								

**Proposed Treatments
With Limiting Factors**

Compartment: 101 **Entry Year: 2008**

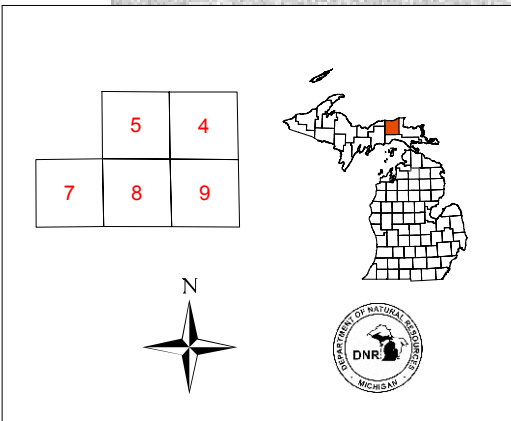
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 101
 T46N, R11W, Sec. 4-5, 7-9
 County: Luce
 Unit: Newberry
 YOE: 2008
 Acres: 1,590 GIS Calculated
 Stand Examiner: Keith Magnusson
 Map Revised: 11/8/2006
 Map Phase: Pre-review



Legend

- ◆ RLS Corners
- ◆ Unregistered Corners
- Miris Corners
- County Gravel Roads
- Gravel Roads
- - - Poor Dirt Roads
- - - Closed Roads
- - - Trails
- Water Features
- X Berms
- 🏠 Cabins
- 🚙 ORV Trails
- Stand Boundary
- 100 - Final Harvest
- 400 - Thinning
- 600 - Delayed Removal
- 800 - Selection

