



NEWBERRY FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 94 ENTRY YEAR: 2007

Compartment Acreage: 2371 (GIS Calculated) County: Luce

Revision Date: 11/06/05

Stand Examiner: Keith Magnusson

Legal Description: T47N R12W Sections 18, 19, 30 and 31

RMU (if applicable):

Management Goals:

Timber management, wildlife habitat and recreation 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. Maintain the existing mixtures of forest of forest cover types and enhance age class diversity in these forest cover types through continued timber harvest treatments and cultivation treatments. Maintain habitat, species, age class and structural diversity.

Soil and Topography:

The entire compartment is level to rolling sandy outwash plains (Danaher Plains). The sand type is predominately Rubicon and Vilas.

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

The compartment is entirely State land. State land mostly surrounds the compartment with the remaining bordering land being corporate-private on the north and northeast sides. The compartment has primarily been managed for timber production, wildlife and recreation. The area is heavily used for blueberry picking.

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

MNFI has identified historical pine barrens as a cover type in portions of this compartment. They list the potential for eagle, Kirtland's warbler and prairie warbler. In addition, there is the potential for Canada rice-grass and Hill's thistle in jack pine openings.

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:

In the past, a complex of wildlife openings has been maintained in this compartment as well as adjacent compartments to enhance the habitat for sharp-tailed grouse. Prescribed fire has been the primary tool for opening maintenance.

Watershed and Fisheries Considerations

Fisheries Values

None.

Wildlife Habitat Considerations:

Compartment 94 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and is part of the Danaher plains opening-pine complex. Pre-settlement maps indicate that the area was composed of white pine-red pine forest and white pine-mixed hardwood forest. Currently, the area is predominately herbaceous openings and jack and red pine plantations, with some inclusions of aspen. Aspen is more predominate in the northern part of the compartment.

In pine stands, retaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. Retaining soft and hard mast producing species and red and white pine in jack pine final harvests will provide food sources, nest and den trees, suitable raptor nest trees, and improve stand diversity. Large opening complexes will be maintained for the benefit of those species which use them. Wildlife species potentially using this compartment include white-tailed deer, ruffed grouse, black bear, coyote, sharp-tailed grouse and Kirtland's warbler.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 18, 19, 30 & 31, T47N-R12W, Luce County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Collingwood and Utica Shales and the 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, but there may be some potential. There is no economic oil and gas production in the UP, although there was a recent well drilled in Schoolcraft County.

Vehicle Access:

Primary access to the compartment is County Road 421 and/or County Road 422. They are routinely maintained by Luce County Road Commission during the summer months. The Danaher Plains Road is another way to access the compartment from the west. There are several sand two tracks throughout the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are designated trails for ORV and snowmobile riding. Hunting, wildlife viewing, camping, and blueberry picking opportunities also exist within the compartment.

Fire Protection:

Area has had prescribe burns through out the area. The compartment has a good road system for suppression activities. Large fire potential is high in this area because of the conifer fuel type of Jack Pine. Scattered large openings may assist in suppression but still allow fires to have very high rates of spread. Response time to this area is moderate to high in this area. Private Property surrounding the compartment could be at risk to damage from a wildfire.

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: 94

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS													All Aged	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
Aspen		83	147			81	17											169	497
Bog or Marsh	23																		23
Grass	470																		470
Jack Pine		492		593	67	27	69												1248
Red Pine						45													45
Upland Hdwds																		8	8
Water	7																		7
White Pine																		73	73
Total	500	575	147	593	67	153	86											250	2371

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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: 94

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	465																										32	497
V Bog or Marsh			23																									23
G Grass					470																							470
J Jack Pine							1248																					1248
R Red Pine																45												45
M Upland Hdwds																									8		8	
Z Water																										7	7	
W White Pine																											73	73
Total	465		23		470		1248									45									8	7	105	2371

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **94**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2686 Cds	Hardwood	1023 Cds
Hardwood	19 Mbf	Hardwood	6 Mbf
Softwood	10023 Cds	Softwood	946 Cds
Softwood	244 Mbf	Softwood	32 Mbf
Sum TotVol	13235 Cds	Sum CutVol	2045 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
2371		244	

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 94

Entry Year: 1997

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
17	A5	35	55	52	aspen (upland)	mature	final harvest	3			
<p>comnts Fmd : Leave all WP/RP. Cut aspen, jack pine, RM, birch, spruce and balsam. 98=31,30,21,20,32. Secondary Management Objective would be White Pine or a mix of what is currently here.</p> <p>Wld : leave all red and white pine</p>											
27	A6	16	55	55	aspen (upland)	mature	final harvest	2			
<p>comnts Fmd : If treated, leave all WP and hemlock. BBD present in the beech. Secondary Management Objective would be maple (mixed hardwood species) or a mix that is currently here.</p> <p>Wld : leave all white pine and hemlock</p>											
46	J5	69	63	48	jack pine	mature	final harvest	2	natural regeneration		
<p>comnts Fmd : Open grown jack pine, limby and multiple aged. Aspen scattered throughout. A few RP/WP as well. JP budworm is beginning to attack this stand as of this summer. Alternate Management Objective would be aspen.</p> <p>Wld : leave red and white pine</p>											
47	A5	17	63	50	aspen (upland)	mature	final harvest	3			
<p>comnts Fmd : Some scattered WP/RP mixed throughout. Cut aspen and JP if treated. Alternate Management Objective would be Jack Pine.</p> <p>Wld : leave red and white pine</p>											
Total Acres.....		137									

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 94

Entry Year: 1997

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
29	A4	98		55	aspen (upland)	unevenaged	final harvest	3		

TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.

comnts Fmd : Stand is a mix of age classes of aspen. There are clumps of older aspen mixed with younger aspen. Most timber is of poor quality. Part of the stand was cut in 1992, TS#42-008-92. That is coming back nicely w/aspen regen. JP seeding in on its own. May not be enough merchantable volume to make a sale. Alternate Management Objective would be jack pine.

Wld : leave a conifer component

52	A4	9		50	aspen (upland)	unevenaged	final harvest	3		
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TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.

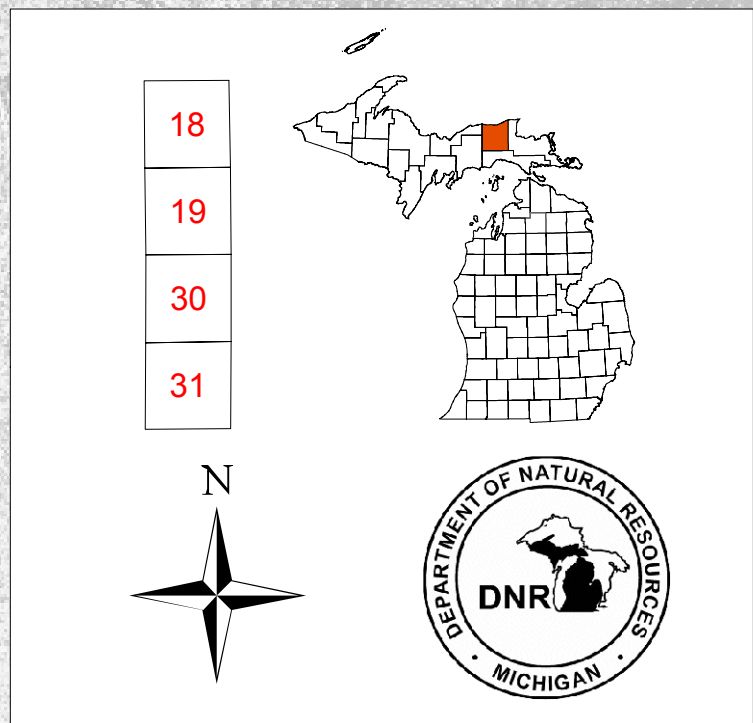
comnts Fmd : Stand is a mix of age classes of aspen. Timber is poor quality. JP is seeding in on it's own throughout stand. May not have enough merchantable timber so make a sale. Alternate Management Objective would be jack pine.

Wld : leave a conifer component

Total Acres..... 107

Field Map

Compartment 94
 T47N, R12W, Sec. 18, 19, 30, 31
 County: Luce
 Unit: Newberry
 YOE: 2007
 Acres: 2,371 GIS Calculated
 Stand Examiner: Keith Magnusson
 Map Revised: 11/07/2005
 Map Phase: Pre-review



- Legend**
- ✕ GPS Corners
 - ▬ Gravel Roads
 - - - Poor Dirt Roads
 - - - Closed Roads
 - ⋯ Trails
 - ⋯ Snowmobile Trails
 - ⋯ ORV Trails
 - ▭ Stand Boundary
 - ▨ 100 - Final Harvest
 - ▩ 146 - Final Harvest/Natural Regeneration
- Name Public Gravel Roads
 Name Public Dirt Roads
 Name Trails

