



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 80 ENTRY YEAR: 2009

Compartment Acreage: 2,770 County: Luce

Revision Date: 7/19/2007

Stand Examiner: Theresa Sysol

Legal Description: T47N R09W Section(s) 1, 2, 11 - 15, 23, 24

RMU (if applicable):

Management Goals: To maintain forest health and sustainability while enhancing diversity, with emphasis on wildlife, recreation, and fisheries needs. Cover types include: 34% spruce/swamp conifers, 32% marsh, lowland brush and/or treed bog, 19 % hardwoods, and ~15% pine (jack, red, white).

Soil and Topography: South end of the compartment is primarily comprised of upland Rousseau sand pine ridges with lowland marshes of Dawson/Greenwood/Loxley muck. The north end is rolling upland hardwoods of Spot/Finch, Paquin/Finch and Wallace/Spot with Carbondale/Lupton/Tawas interspersed along lower grounds.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private lands interspersed along NW, W, and SE boundaries. Entire N boundary is private lands.

Unique, Natural Features (include only non-site specific and non-sensitive information): MNFI has identified the potential for pine drops, climbing fumitory, and false violet in pines. Canada rice-grass possible in jack pine openings. Potential for sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, meadow beauty, round-leaved orchis, black crowberry, yellow pitcher plant, and paniced screwstem in bogs and open wetlands.

Potential for red-shouldered hawk, great blue heron rookery, spruce grouse, black-backed woodpecker, eagle, osprey, merlin and goshawk. Potential for moose and wolf. Potential for wood turtle and Blanding's turtle. Potential for incurvate emerald and ebony boghaunter in boggy areas. Potential for yellow rail, least bittern, American bittern, marsh wren and black tern in marsh.

Archaeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None listed with the Bureau of History.

Special Management Designations or Considerations: Potential for biodiversity stewardship along Murphy Creek.

Watershed and Fisheries Considerations: Fisheries Values:

Minimal. The whole Murphy Creek System is classified non-trout. Even so, summer water temperatures in 2005 at M-123 were cold enough to support brook trout. When last surveyed, nothing was found except a couple species of minnow. As, or if, those minnows migrate downstream into the Tahquamenon River, they help comprise a forage base for the excellent sports fishery of walleyes, pike, muskies and perch that exists in the river.

Wildlife Habitat Considerations: Compartment 80 lies in the Seney Sand Lake Plain ecological sub-subsection in central Luce County. The compartment is largely comprised of lowland types including spruce, swamp conifers, marsh and treed bogs with lesser components of hardwood and pine. Species diversity of the stands is decent and excellent wildlife travel corridors exist along several streams that run through the compartment. The eastern portion of this compartment is on the fringe of the historic Hulbert Deer yard. The current vegetation patterns in this compartment are expected to be similar to pre-settlement periods.

Species diversity will be maintained in harvested pine stands by retaining components of pine, aspen, spruce and paper birch. Bogs and marshes will be buffered to protect wetland wildlife values and habitats and preserve travel corridors. White-tailed deer, black bear, moose, coyote, gray wolf, sharptail grouse, otter, mink, bobcat and hare are noteworthy wildlife species using this compartment.

Mineral Resource and Development Concerns and/or Restrictions: Sections 1, 2 11 - 14, 23 & 24, T47N-R9W, Luce County

Surface sediments consist of peat and muck and lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for limestone/dolostone in the UP. There are no gravel pits in the area, and potential is limited. There is no economic oil and gas production in the UP.

State controls most mineral rights, except for within section(s) 1 and 14.

Vehicle Access: 10 miles north of Newberry on M-123 to the Murphy Creek Road. The Murphy Creek Road is a poor sand road which is used by numerous camp owners. A portable bridge is currently in place to access the compartment from the south. Some access from the north, off the Fordney Tower Road (12 miles north of Newberry), but this would be across private lands; industry land access may be possible from M-123.

Survey Needs: None for current prescriptions.

Recreational Facilities and Opportunities: Access for hunting and limited fishing opportunities.

Fire Protection: Pine mixed with grassy/brush marsh fuel types throughout this compartment have potential for large fire development. Mixture of marsh areas could be a challenge to suppression forces. There are a fair number of roads, but most are difficult to navigate and will require extensive work to be used as fire lines. Private properties in and around the compartment could be at risk because of fuels and accessibility.

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

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 80

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
Black Spruce					56			95	200										351
Bog or Marsh	52																		52
Cedar										22		43							65
Hemlock																		6	6
Jack Pine						6	29	116	40										191
LowInd Brush	149						16				22								187
Marsh	268																		268
Mx Swmp Cnfr							31		197	52	126							106	512
Red Pine																		10	10
Swamp Hrdwds									22	15								38	75
Treed Bog	387																		387
Upland Hdwds								12		12								427	451
White Pine										21								194	215
Total	856				56	6	76	223	459	122	148	43						781	2770

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

LAKE SUPERIOR STATE FOREST

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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
S Black Spruce		351																									351
V Bog or Marsh			52																								52
C Cedar				65																							65
H Hemlock						6																					6
J Jack Pine							191																				191
L Lowlnd Brush									187																		187
N Marsh											268																268
Q Mx Swmp Cnfr												512															512
R Red Pine																10											10
E Swamp Hrdwds																				75							75
D Treed Bog																							387				387
M Upland Hdwds																								451			451
W White Pine																										215	215
Total		351	52	65		6	191		187		268	512			10					75		387		451		215	2770

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **80**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8642 Cds	Hardwood	10 Cds
Hardwood	515 Mbf	Softwood	884 Cds
Softwood	13225 Cds	Softwood	3 Mbf
Softwood	1699 Mbf	Sum CutVol	900 Cds
Sum TotVol	26295 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	41
2770			

**Proposed Treatments
With NO Limiting Factors**

Compartment: 80

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
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Total Acres..... 0

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 80

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
66	J6	36	59	45	jack pine	mature	final harvest	2	natural regeneration	

TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate)
Too steep

comnts Fmd : Steep ridge of timber within marsh - will be difficult to harvest. Road access is across private lands; will need to check on easement. In addition, current portable bridge may not still be available and in place for logging. Occasional PB clumps scattered within - leave for diversity. Mixed red and white pine can be left, also; knob at west end of stand contains quite a bit of this. Spruce along lower stand edges. 1999: stand 27

Wld : leave red and white pine unless needed for maneuverability and paper birch clumps. Keep equipment out of bog areas

67	R9	5		45	red pine	immature	shelterwood-seed	2		
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TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

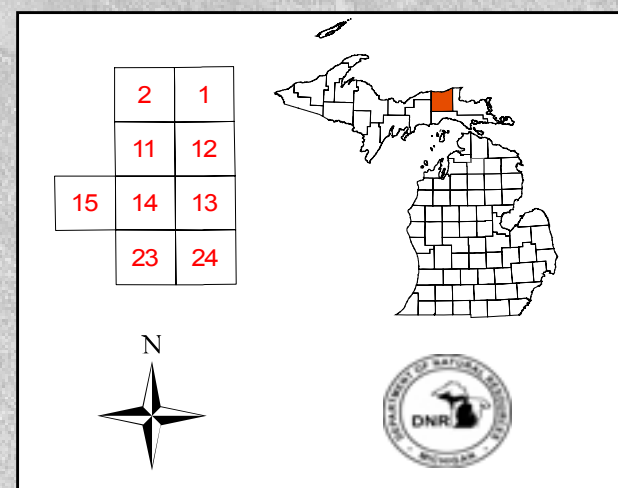
comnts Fmd : Continuing ridge of timber with more red and white pine than adjacent; jack pine, spruce were removed in the late 40's. Harvest with adjacent stand to improve marketability. Mixed spp include: PB, S, A - leave for diversity, unless need to remove for maneuverability. 1999: stand 30

Wld : leave paper birch, spruce and aspen for diversity

Total Acres..... 41

Field Map

Compartment 80
 T47N, R09W, Sec. 1, 2, 11-15, 23, 24
 County: Luce
 Unit: Newberry
 YOY: 2009
 Acres: 2,770 GIS Calculated
 Stand Examiner: Theresa Sysol
 Map Revised: 12/06/2007
 Map Phase: Pre-Review



Legend

- ◆ RLS Corners
- Miris Corners
- Gravel Roads
- - - Poor Dirt Roads
- Closed Roads
- Water Features
- Bridges
- Camps
- Gates
- Stand Boundary
- ▨ 145 - Final Harvest/Natural Regeneration/Mechanical, other
- ▩ 300 - Shelterwood-seed

