



**NEWBERRY FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #13 ENTRY YEAR: 2007**

**Compartment Acreage: 1,899 (GIS Calculated) County: Luce**

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**Revision Date: 10/26/2005**

**Stand Examiner: Theresa Sysol**

**Legal Description: T49N R12W Section 13 and T49N R11W Section(s) 16-18**

**RMU (if applicable):**

**Management Goals:**

To maintain and enhance forest health and diversity while incorporating recreational, wildlife, fire, and any additional special concerns.

**Soil and Topography:**

Rolling uplands of Rubicon sand with steep hills on the west end, and another ridgeline angling across the middle of section(s) 16, 17. Forest cover types are primarily upland pine, with approximately 25% jack pine, 35% red pine and 20% white pine.

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

State-owned lands surround the compartment.

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

MNFI has identified the potential for goshawk, red-shouldered hawk, eagle, and osprey. Potential for moose and wolf. Potential for pine drops or false violet in pines. Auricled twayblade to NW. American dune wild-rye to NE. Black crowberry to N.

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

None listed, although numerous old logging grade remnants can be found scattered throughout.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations**

Fisheries Values

None.

**Wildlife Habitat Considerations:**

**Compartment 13** lies in the far northern portion of Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The vegetation is primarily red, white, and jack pine with a few stands of aspen and birch scattered throughout the compartment. Stands have a nice diversity of tree species present. Overall, pre-settlement vegetation patterns appear to have been similar to the current landscape of this compartment.

In a predominantly pine forested ecosystem, maintaining 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. For example, 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, and improve stand diversity. Conifer components of aspen stands are commonly retained during harvest. Wildlife species potentially using this compartment include white-tailed deer, black bear, spruce grouse, ruffed grouse, snowshoe hare, gray wolves, coyote and fox.

**Mineral Resource and Development Concerns and/or Restrictions:**

Sections 16 – 18 & 21, T49N-R11W, Luce County. Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Group and Precambrian Jacobsville Sandstone subgroups below the glacial drift. These rocks have been used as a building stone in the past. Gravel pits are not located 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:**

From Newberry, follow M-123 north to Co Rd 407. Follow Co Rd 407 ~ 19 miles north to Co Rd 410. Go west on Co Rd 410 for ~ 3.5 miles to N/S fire lane which will lead you into the SE corner of the compartment. Interior compartment roads are mainly poor sand two-tracks.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

The Pine Ridge ORV trail runs throughout the compartment. Good blueberry picking can be found in the late summer.

**Fire Protection:**

Fire lane road breaks are in place along section lines. The compartment is a part of the Two Hearted Zone Dispatch area. Very large fire runs are not expected because of the many stands of different conifer species, age classes and densities. Mostly dry sandy soils over much of the area should allow normal fire suppression efforts to be successful.

**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: 13

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						15													15
Black Spruce								6											6
Hemlock			14															9	23
Jack Pine		133		12	19			127	166										457
Marsh	1																		1
Oak									40		20								60
Paper Birch				60	3		7	52	27									10	159
Red Pine		47						93	488									105	733
Spruce Fir			30	7	55			3											95
Upland Hdwds																		38	38
White Pine					7			5	40	8								252	312
<b>Total</b>	<b>1</b>	<b>180</b>	<b>44</b>	<b>79</b>	<b>84</b>	<b>15</b>	<b>7</b>	<b>286</b>	<b>761</b>	<b>8</b>	<b>20</b>							<b>414</b>	<b>1899</b>

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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: 13

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	15																										15
S Black Spruce		6																									6
H Hemlock						23																					23
J Jack Pine							457																				457
N Marsh											1																1
O Oak														60													60
B Paper Birch	8														151												159
R Red Pine																733											733
F Spruce Fir																			95								95
M Upland Hdwds						29																		9			38
W White Pine																										312	312
<b>Total</b>	<b>23</b>	<b>6</b>				<b>52</b>	<b>457</b>				<b>1</b>			<b>60</b>	<b>151</b>	<b>733</b>			<b>95</b>					<b>9</b>		<b>312</b>	<b>1899</b>

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **13**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4120 Cds	Hardwood	806 Cds
Hardwood	21 Mbf	Softwood	4334 Cds
Softwood	17544 Cds	Softwood	343 Mbf
Softwood	2114 Mbf	Sum CutVol	5826 Cds
Sum TotVol	25934 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	583
1899			

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 13**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>2</b>	<b>R6</b>	93	76	50	red pine	immature	shelterwood-seed	2		
<p>comnts Fmd : "Big Corner Jack Pine" sale #44-97. Stand harvested in 1999-2000. Scarification completed 8/2001 FTP#42-490, with regen check 5/2004. Stocking = 505 t/ac of mixed spp. Original planting of 2-0 R,J in 1931. Red pine was never thinned with timber sale; fairly thick, in places. No regeneration underneath. 1997: stand 2</p> <p>Wld : leave white pine in the stand, leave all oak, and leave paper birch</p>										
<b>4</b>	<b>R6</b>	68	76	50	red pine	immature	delayed removal	1	natural regeneration	
<p>comnts Fmd : Stand was planted with 2-0 J,R in 1931. Remove jack pine and thin red pine, where needed. Mixed hardwood spp include: oak, paper birch - these can be left for diversity within stand. Old charred WP stumps w/in. Ground cover noted includes: pipsissewa, wintergreen, lily of the valley, trailing arbutus, oak and red maple seedlings. 1997: stand 6</p> <p>Wld : Leave oak and paper birch</p>										
<b>6</b>	<b>R6</b>	25	76	50	red pine	immature	thinning	2		
<p>comnts Fmd : Stand was planted w/2-0 J,R in F, 1931. Remove jack pine and thin red pine to increase growth. 91= oak, spruce, aspen, and W. Leave oak and white pine, but cut aspen and spruce. 1997: stand 6</p> <p>Wld : leave all oak and white pine</p>										
<b>11</b>	<b>O5</b>	20	91	40	oak	sparse	seed tree	1	natural regeneration	
<p>comnts Fmd : Stand is fairly open with oak, red and jack pine. Planted in 1930 with 2-0 R,J. Jack pine is large, limby and dying. RP noted with dead top. Remove these older trees, and release/enhance understory. Natural regen should happen, but may need some manipulating (scarify, burn); plant, if desired stocking is not achieved. There are numerous oak seedlings present (1' and under in height) - would be good to try and encourage these. Oak is only wildlife quality, but still should be managed for, as such. Paper birch present within stand - this could be left. The ORV trail runs through the stand - will be kept intact. 1997: stand 16</p> <p>Wld : leave paper birch and a few conifers</p>										
<b>12</b>	<b>J5</b>	14	77	46	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Stand was planted w/2-0 J,R in 1930. Poorer site - some sweet fern noted within. Some younger, smaller jack pine within - seeding in? Cement monument (not survey) found along firelane (pulled out of ground). Some oak, paper birch and red pine within stand - leave when stand is harvested for diversity. The ORV runs along portions of the north end of stand - take any hazard jack pine within it's influence. 1997: stand 13</p> <p>Wld : leave oak, paper birch and Red pine</p>										
<b>17</b>	<b>J6</b>	7	76	53	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Original planting done Fall, 1931 with 2-0 J,R. Mixed spp includes: PB, O, W. Cut only jack pine; cut those within influence of ORV trail, also, as they create a hazard. Some jack pine dead and down already. Maintain integrity of ORV trail. 1997: (part of) stand 9</p> <p>Wld : leave white pine, oak and paper birch</p>										
<b>26</b>	<b>W6</b>	24		45	white pine	unevenaged	thinning	2		
<p>comnts Fmd : Stand was thinned in the fall of 1979 under t. sale #47-79A. Stand could use another light thinning. Small quantities of oak,beech, red maple are present within stand. Some hemlock seen along adjacent stand boundary; not much. 1997: stand 18</p> <p>Wld : leave oak, beech, red maple and hemlock</p>										
<b>31</b>	<b>B6</b>	8	64	46	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Stand contains a good quantity of non-merchantable birch; lots of PB/A dead and on the ground already. Areas with more sprout origin (clump), twisted paper birch and beech. Old E-W grade runs through stand. Some jack pine and spruce within. Stand blends/transitions into surrounding stands. Leave all red and white pine, when cut. 1997: stand 22</p> <p>Wld : leave red a white pine and a beech component</p>										
<b>32</b>	<b>J6</b>	17	76	45	jack pine	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Stand planted F, 1931 with 2-0 R,J. Mixed spp include: paper birch and white pine. Leave red pine, although some may need to be marked for access and maneuverability. 1997: stand 21</p> <p>Wld : leave paper birch and white pine, leave red pine but can cut some for maneuverability if needed</p>										
<b>37</b>	<b>J1</b>	40	4	50	jack pine	in process of regeneration		0	planting	
<p>comnts Fmd : Stand harvested in 2000. TS #047-97-01, "Blood Trail Jack Pine". Scarification completed 8/2000 FTP#42-491. Red and white pine were left as residuals. Regeneration check in 5/2004 showed stocking of only 308 t/ac - plant. 1997: stand 31</p> <p>Wld : leave red and white pine</p>										

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 13**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
<b>38</b>	<b>J5</b>	67	76	53	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Stand planted in the fall, 1931 w/ 2-0 J,R. Contains portions of three stands from last entry; open-grown jack pine areas, with red pine areas, and thicker jack pine patches - treatment will be the same, though; remove jack pine, aspen and thin red pine only if necessary for maneuvering. Otherwise, leave for visual purposes. Some of the jack pine is already dead/dying; comment from 1993 supports this: "Budworm killed some trees here in the recent past. Top kill is also evident throughout this stand." Mixed spp include: S, PB, O and W. 1997: stand 34,35,36</p> <p>Wld : leave paper birch, oak, and young spruce. Some red pine can be harvested for maneuverability</p>										
<b>41</b>	<b>R9</b>	46	76	50	red pine	immature	thinning	2		
<p>comnts Fmd : Planted fall, 1931 w/ 2-0 R,J. Some older red and white pine present also. Mixed hardwood includes: A,B Rolling terrain. 1997: stand 34,40,44</p> <p>Wld : leave white pine, birch</p>										
<b>42</b>	<b>J5</b>	19	76	45	jack pine	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Stand includes frost pocket/depression. Leave red and white pine. 1997: stand 38</p> <p>Wld : leave red and white pine</p>										
<b>62</b>	<b>R9</b>	19		50	red pine	unevenaged	shelterwood-seed	2	natural regeneration	
<p>comnts Fmd : Stand contains both birch and aspen; harvest to encourage regeneration patches of both. Thin red pine to improve quality of residual trees and encourage new regeneration. Mixed spp include: aspen, white pine. 1997: stand(s) 56,55</p> <p>Wld : leave oak and white pine</p>										
<b>64</b>	<b>J6</b>	42	70	43	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Stand is comprised of planted and natural pine; planting done Sp, 1937 w/ 2-0 W,J and 3-0 R. Thin red pine, where needed, to enhance regeneration. A fair amount of white pine established (1-2" dbh and 20 feet tall), in places already. Manage for mixed species. 1997: stand(s) 51,56,55</p> <p>Wld : leave oak, paper birch, and white pine</p>										
<b>66</b>	<b>R6</b>	6		50	red pine	unevenaged	shelterwood-seed	2		
<p>comnts Fmd : Small paper birch and aspen within. Planting records indicate site was planted in Sp, 1937 with J,W (2-0),R (3-0), but some of the larger pine is a residual from earlier harvesting, and planting was in and around them. Remove older jack pine, aspen, and mark a few red/white pine for equipment maneuvering, if needed. Harvest with adjacent stand. 1997: stand 55</p> <p>Wld : leave paper birch, and white pine except for maneuverability.</p>										
<b>74</b>	<b>R6</b>	14		45	red pine	unevenaged	shelterwood-seed	2	natural regeneration	
<p>comnts Fmd : Stand contains jack pine with larger RP and WP. Understory fairly thick with F, in places. A component of S/F within, which should be harvested also. Weeviling present on larger WP. 1997: stand 68</p> <p>Wld : leave white pine except for maneuverability issues</p>										
<b>75</b>	<b>J6</b>	19	60	46	jack pine	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : More open-grown stand than adjacent jack pine types. 1997: stand 61</p> <p>Wld : leave white pine</p>										
<b>78</b>	<b>R6</b>	35	73	45	red pine	immature	shelterwood-seed	2		
<p>comnts Fmd : Stand contains more birch and jack pine; B/A is in patches. Most of the birch is smaller and could be left within the stand, for diversity. The ORV trail crosses a small portion of the stand. 1997: stand 62</p> <p>Wld : leave white pine and birch</p>										
<b>80</b>	<b>R6</b>	11		45	red pine	unevenaged	seed tree	2	natural regeneration	
<p>comnts Fmd : Stand is primarily a long, slope/sidehill; smaller jack pine. 1997: stand 65</p>										
<b>Total Acres.....</b>		<b>594</b>								

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 13**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
71	M9	29		45	hemlock	unevenaged	selection	3		

TREATMENT LIMITING FACTORS: Inferior quality

comnts Fmd : "How to Hardwoods" sale #037-97. Sale never sold last time around; poor hardwood markets. Lots of beech scale within stand now - a lot of dead/dying - barely marketable (large pulp). Let stand convert to H/W type; leave occasional beech for mast trees (as long as they live). Soils are rubicon - organic phase. 1997: stand 71

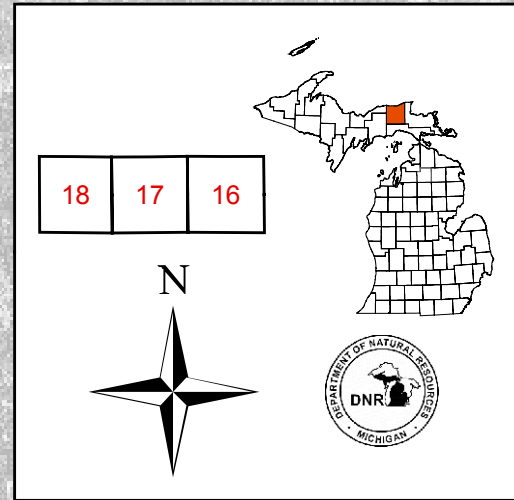
Wld : leave all hemlock and oak and a beech component

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**Total Acres..... 29**

# Field Map

Compartment 13  
 T49N, R11W, Sec. 16-18  
 T49N, R12W, Sec. 13  
 County: Luce  
 Unit: Newberry  
 YOE: 2007  
 Acres: 1,899 GIS Calculated  
 Stand Examiner: Theresa Sysol  
 Map Revised: 11/07/2005  
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
  - Miris Corners
  - County Gravel Roads
  - - - Poor Dirt Roads
  - ..... Closed Roads
  - - - Trails
  - ORV Trails
  - Stand Boundary
  - ▽▽ 014 - Planting/Bulldozer
  - ▨ 100 - Final Harvest
  - ▩ 145 - Final Harvest/Natural Regeneration/Mechanical,other
  - ▧ 245 - Seed Tree/Natural Regeneration/Mechanical,other
  - ▦ 248 - Seed Tree/Natural Regeneration/Other
  - ▤ 300 - Shelterwood-seed
  - ▥ 345 - Shelterwood-seed/Natural Regeneration/Mechanical,other
  - ▣ 400 - Thinning
  - ▢ 645 - Delayed Removal/Natural Regeneration/Mechanical,other
  - ▧ 800 - Selection
  - Name County Gravel Roads
  - Name Poor Dirt Roads

