



**NEWBERRY FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #117 ENTRY YEAR: 2007**

**Compartment Acreage: 3,980 County: Luce**

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

**Stand Examiner: Theresa Sysol, Jason Tokar**

**Legal Description: T46N R8W Section 18, 19 and T46N R9W Sections 3, 10-15, 23, 24**

**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:**

Flat Tahquamenon peat, Carbondale muck swamps with low upland ridges of Saugatuck, Wallace fine and Brimley very fine sands. Approximately 2/3 of the compartment is a complex of predominately wetland cover types.

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

Private lands to the east, otherwise surrounded by mixed State and private ownership.

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

MNFI has identified the potential for merlin, eagle, osprey, goshawk, red-shouldered hawk, wood turtle, and Blanding's turtle. Potential for yellow rail, least bittern, American bittern, marsh wren and black tern in marsh. Potential for gray wolf and moose. Potential for spruce grouse and black-backed woodpecker. Potential for incurvate emerald, frigga fritillary, freija fritillary, and ebony boghaunter in boggy areas. Potential for sweet coltsfoot, Wiegand's sedge, English sundew, round-leaved orchis, black crowberry, yellow pitcher plant, and panicked screwstem in bogs. Potential for climbing fumitory, pine-drops, and false violet in pines.

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

None identified by the Bureau of History

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations**

**Fisheries Values**

Poor. The Auger Creek in this compartment is designated as second quality warm water. Even so, its temperature regime and habitat can easily support northern pike, muskellunge, walleye, perch, and trout in the colder seasons. The Tahquamenon River along the south of the compartment is designated as top quality warm water, supporting good populations of the above-mentioned species. The river through this area is

generally self-protected by the extensive marsh complex which serves to intercept mobile substrates and most human-caused contaminants.

**Wildlife Habitat Considerations:**

Compartment 117 lies in the Seney Sand Lake Plain ecological sub-subsection. Auger Creek makes up the northern border of the compartment. The compartment is largely comprised of low, wet cover types varying from treed bogs and lowland brush to swamp conifer and swamp hardwoods. A few drier spots and ridges support jack pine, spruce, and white pine or aspen stands. Excellent wildlife travel corridors exist along lowlands, ridges and streams. Current day vegetation patterns mimic those recorded during pre-settlement times.

Forested corridors should be maintained to facilitate ease of movement between upland and lowland areas. Buffer zones along streams and rivers should be sustained to preserve travel corridors and wetland wildlife values and habitats. 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 stands. White-tailed deer, black bear, snowshoe hare, moose, gray wolf, mink and otter are noteworthy wildlife species using this compartment.

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

Sections 3, 10 - 15 & 22 – 24, T46N-R9W & Sections 18 & 19, T46N-R8W, Luce County

Surface sediments consist of peat and muck and minor lacustrine (lake) sand & gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Collingwood and Utica Shales and the Trenton Group subcrop below the glacial drift. The Trenton is quarried for limestone/dolomite in the UP. Gravel pits are not located in the area and potential is limited. There is no economic oil and gas production in the UP, although there was a recent well drilled in Schoolcraft County.

**Vehicle Access:**

9 Miles north of Newberry on the Charcoal Grade. Access is very limited due to private land ownership, gates and the minimal amount of roads within the compartment. The main access to this compartment is the Charcoal Grade. It is gated on the north and south ends of the adjacent compartment on the borders of the private land ownership. The Charcoal Grade is a major snowmobile trail leading to and from Newberry. During snowmobile season, the private landowners open the gates to allow access for snowmobiling.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

The Falls snowmobile trail (Trail #45) uses the Charcoal Grade as a main travel route. Hunting and wildlife viewing are additional opportunities.

**Fire Protection:**

Fire suppression activities may be tough with heavy equipment because of soft ground. Large fire potential may be low to moderate because of poor roads and mixture of Jack Pine ridges, swamp conifers and marshes.

**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: 117

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				9	28				10									16	63
Black Spruce					13	4		5	243	23	45	3							336
Bog or Marsh	7																		7
Hemlock													3					206	209
Jack Pine					282					7									289
Lowlnd Brush	479																		479
Marsh	1093																		1093
Mx Swmp Cnfr									98	46	19	58						159	380
Red Pine										16								8	24
Spruce Fir					4														4
Swamp Hrdwds																		250	250
Treed Bog	780				4														784
White Pine																		62	62
<b>Total</b>	<b>2359</b>			<b>9</b>	<b>331</b>	<b>4</b>		<b>5</b>	<b>351</b>	<b>92</b>	<b>64</b>	<b>61</b>	<b>3</b>					<b>701</b>	<b>3980</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: 117

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	47											16															63
S Black Spruce		336																									336
V Bog or Marsh			7																								7
H Hemlock						209																					209
J Jack Pine							289																				289
L LowInd Brush									479																		479
N Marsh											1093																1093
Q Mx Swmp Cnfr												380															380
R Red Pine																24											24
F Spruce Fir																			4								4
E Swamp Hrdwds																				250							250
D Treed Bog																							784				784
W White Pine																										62	62
<b>Total</b>	<b>47</b>	<b>336</b>	<b>7</b>			<b>209</b>	<b>289</b>		<b>479</b>		<b>1093</b>	<b>396</b>				<b>24</b>			<b>4</b>	<b>250</b>			<b>784</b>			<b>62</b>	<b>3980</b>

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 117

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3476 Cds	Hardwood	126 Cds
Hardwood	8 Mbf	Softwood	604 Cds
Softwood	12830 Cds	Sum CutVol	730 Cds
Softwood	1215 Mbf		
Sum TotVol	18752 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
3980		75	

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 117**    **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>17</b>	<b>Q5</b>	11		35	mixed swamp conifer	unevenaged	final harvest	2		
<p>comnts Fmd : Contains some multiple-stemmed spruce with white pine, hemlock. Soils are Spot/Finch complex. Mixed softwood includes: red pine, hemlock and fir. Leave white and red pine, hemlock. 1997: stand 58,63</p> <p>Wld : leave red and white pine and hemlock</p>										
<b>19</b>	<b>S5</b>	9	77	35	black spruce-swamp	mature	final harvest	3		
<p>comnts Fmd : Along grade, there is some jack pine mixed within stand. Some mistletoe visible on spruce. Mixed commercial species include: cedar, paper birch, red maple. Soils are Spot/Finch. Harvest will need to occur when soils are dry (mid - late summer) or when soils are frozen to prevent damage. Leave large white pine and any smaller regeneration; leave cedar also. Regeneration may be difficult, due to soil wetness and plant competition (mostly brush), although adjacent stands with spruce should provide sufficient seed source. 1997: stand 64</p> <p>Wld : leave white pine and cedar</p>										
<b>24</b>	<b>S6</b>	21	77	30	black spruce-swamp	immature	final harvest	2		
<p>comnts Fmd : Very thick stand of spruce. Soils are Spot/Finch. 1997: stand 66</p> <p>Wld : leave white pine and cedar</p>										
<b>37</b>	<b>A5</b>	16		40	mixed swamp conifer	unevenaged	final harvest	1		
<p>comnts Fmd : Narrow ridge of high ground through stand supports aspen, birch, red and white pine, and a few red maple. Low ground is more spruce/fir, white pine, cedar, hemlock. Aspen/birch on this lower ground is in poor shape and will eventually disappear from the stand. Some dead aspen already. Heavy spruce/fir understory. Let stand convert to white pine or spruce. Logging access is difficult due to narrow trail and wet soils. Soils are Rousseau along ridge and Spot/Finch elsewhere. Cut aspen, birch, spruce/fir and leave W,C,H. 1997: stand 29</p> <p>Wld : leave white pine, cedar and hemlock</p>										
<b>38</b>	<b>S6</b>	18	73	30	black spruce-swamp	immature	final harvest	3		
<p>comnts Fmd : Low ground with some low quality aspen and paper birch within. Spruce/fir regeneration is ~10 feet tall. Difficult access. 1997: stand 28</p>										
<b>Total Acres.....</b>		<b>75</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 117**    **Entry Year: 2007**

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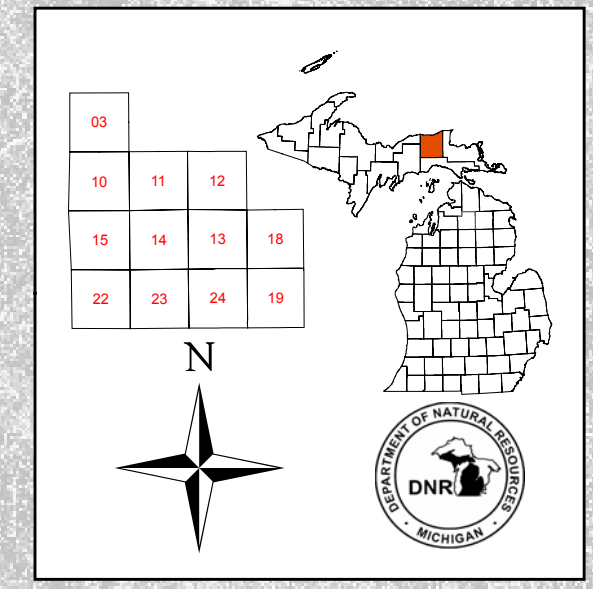
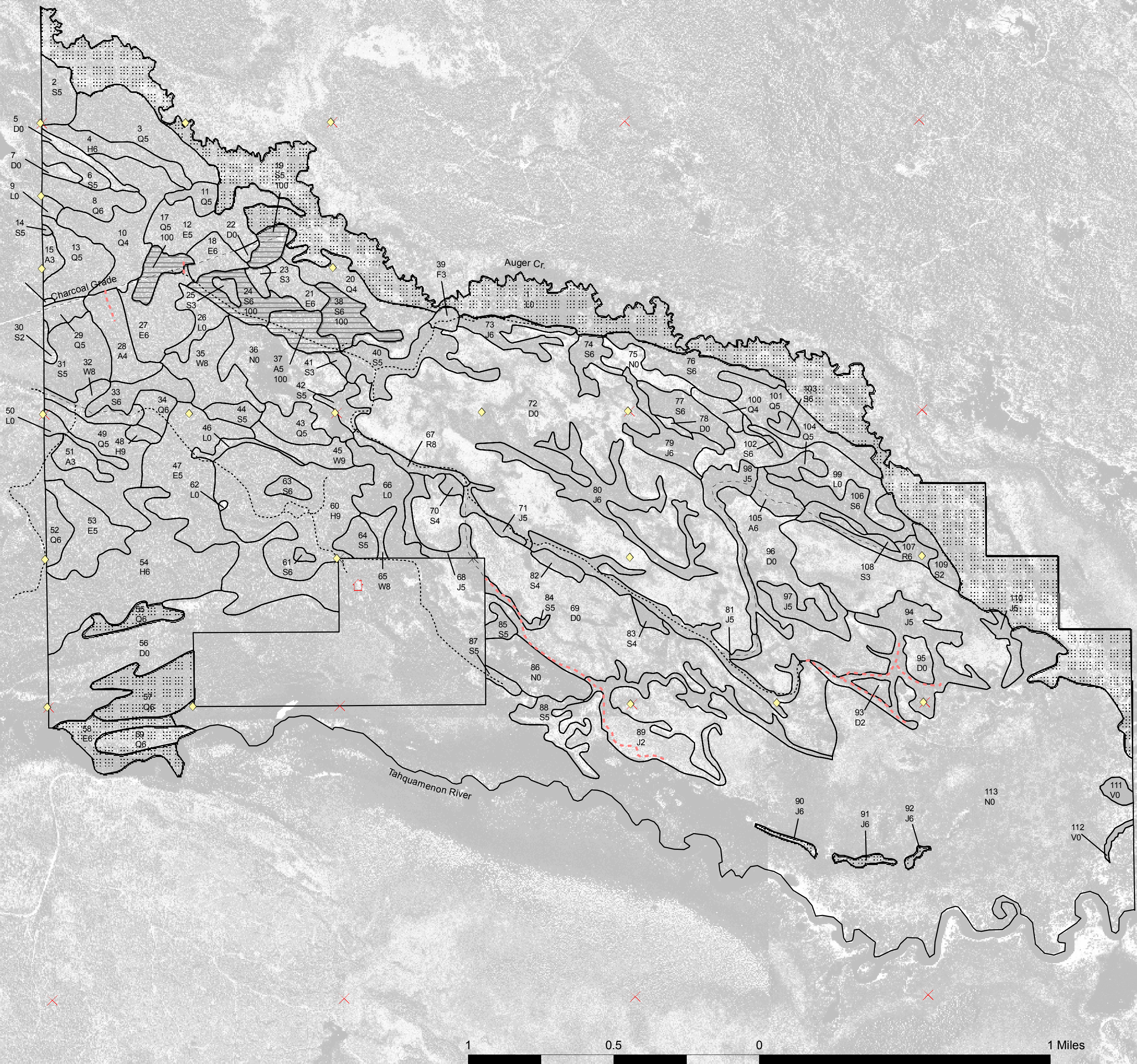
TREATMENT LIMITING FACTORS:

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**Total Acres..... 0**

# Field Map

Compartment 117  
 T46N, R8W, Sec. 18, 19  
 T46N, R9W, Sec. 3, 10-15, 22-24  
 County: Luce  
 Unit: Newberry  
 YOE: 2007  
 Acres: 3,980 GIS Calculated  
 Stand Examiner: Theresa Sysol & Jason Tokar  
 Map Revised: 11/03/2005  
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
  - ✕ GPS Corners
  - - - Poor Dirt Roads
  - - - Closed Roads
  - ..... Trails
  - ▭ Cabins
  - ✕ Gates
  - ▭ Stand Boundary
  - ▨ Biodiversity/Old Growth Area
  - ▨ 100 - Final Harvest
  - Name Public Dirt Roads
  - Name Water Features

