



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 116

Entry Year 2016

Acreage: 2,452

County Luce

Management Area: Tahquamenon River Patterned Fen

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### Revision Date:

Stand Examiner: Ryan Mattila

### Legal Description:

T46N R9W Sections 1-4, 10-13

### Identified Planning Goals:

Recreation, timber, and wildlife 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.

### Soil and topography:

The soil in this compartment is mostly made up of a complex of sandy soils mixed in with level lowland peat soils. The southeastern portion of the compartment is a complex of sand/clay soils. The compartment is mostly comprised of low, wet cover types varying from treed bogs and lowland brush to cedar and swamp conifer. Most of the uplands in this compartment are on sand ridges that support jack pine, spruce, and white/red pine or aspen stands. Some of the richer upland sand/clay type soils support maple, beech, yellow birch, hemlock and white pine associations. Current day vegetation patterns mimic those recorded during pre-settlement times.

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

The compartment has a mix of ownership within its boundaries. The land is predominately state owned with inclusions of private land ownership. Land surrounding the compartment has mixed ownership as well. It is predominantly state owned on the south side while being mixed on the north on east sides. Large corporate land owners, as well as other private ownership, predominately hold the land along the north and east boundaries. The compartment is currently used for an assortment of recreational opportunities such as hunting, snowmobiling and wildlife viewing. There are a fair amount of camps on the private land in and around the compartment. The corporate private land is primarily used for timber production. Much of the area within the compartment is difficult to access due to remoteness and lowland nature.

### Unique Natural Features:

Great Blue Heron rookeries have been noted within the compartment by MNFI in 1978.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

The wildlife habitat lends itself to high use for various types of hunting in the compartment. Management decisions should promote and enhance characteristics such as age class diversity and species diversity to sustain these recreational opportunities in the compartment.

### Watershed and Fisheries Considerations:

Fisheries Values: Moderate

Fisheries Concerns: The Auger River bordering the southern edge of the compartment is primarily a warmwater stream providing nursery areas for game fish and forage species of the Tahquamenon River. Erosion control should be a high priority near the river. Standard BMP's should be applied.

### Wildlife Habitat Considerations:

Compartment 116 lies in the Seney Sand Lake Plain ecological sub-subsection. The compartment is within the Tahquamenon River Patterned Fen Management Area and black bear, moose Blackburnian warbler, red crossbill, snowshoe hare and spruce grouse are featured species. Auger Creek makes up the southern border of the compartment. The compartment is mostly comprised of low, wet cover types varying from treed bogs and lowland brush to cedar and swamp conifer. A few drier spots and ridges support jack pine, spruce, and white pine or aspen stands. Excellent wildlife travel corridors exist along lowlands 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, fisher, black bear, American marten, snowshoe hare, moose, and gray wolf are noteworthy wildlife species using this compartment.

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

Surface sediments consist of peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Group subcrops below the glacial drift. The Trenton is quarried for stone 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.

### **Vehicle Access:**

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 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:**

Corners are needed around the private 40's on section's 3 and 4, as well as in section 1 and around the private 80 in section 12, to complete all of the prescribed timbersale work. The north side of the private 40 in section 2 may have a small trespass but needs corners to conform.

### **Recreational Facilities and Opportunities:**

Trail #45 (The Falls Snowmobile Trail) runs along the Charcoal Grade through the compartment. Other recreational opportunities would include hunting, hiking and wildlife viewing.

### **Fire Protection:**

Fires in this compartment should remain small except in times of increased drought because of lowland cover types. Access to fires will be poor because of lack of roads, soft ground and swamp conifer types. Risk to private property should be low.

### **Additional Compartment Information:**

#### **The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

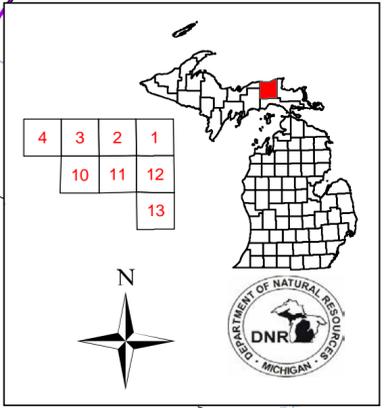
#### **The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatment Map

Compartment: 116  
 T46N R09W Sections 1-4, 10-13  
 County: Luce  
 Unit: Newberry  
 Management Area: Tahquamenon River Patterned Fens  
 YOE: 2016  
 Acres: 2,452 GIS Calculated  
 Examiner: Ryan Mattila  
 Map Revised: 08/28/2014  
 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- GPS Point
- Wood Post
- Gate
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Treatments w/ Site Condition

**Forest Stands**

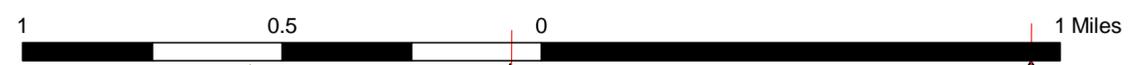
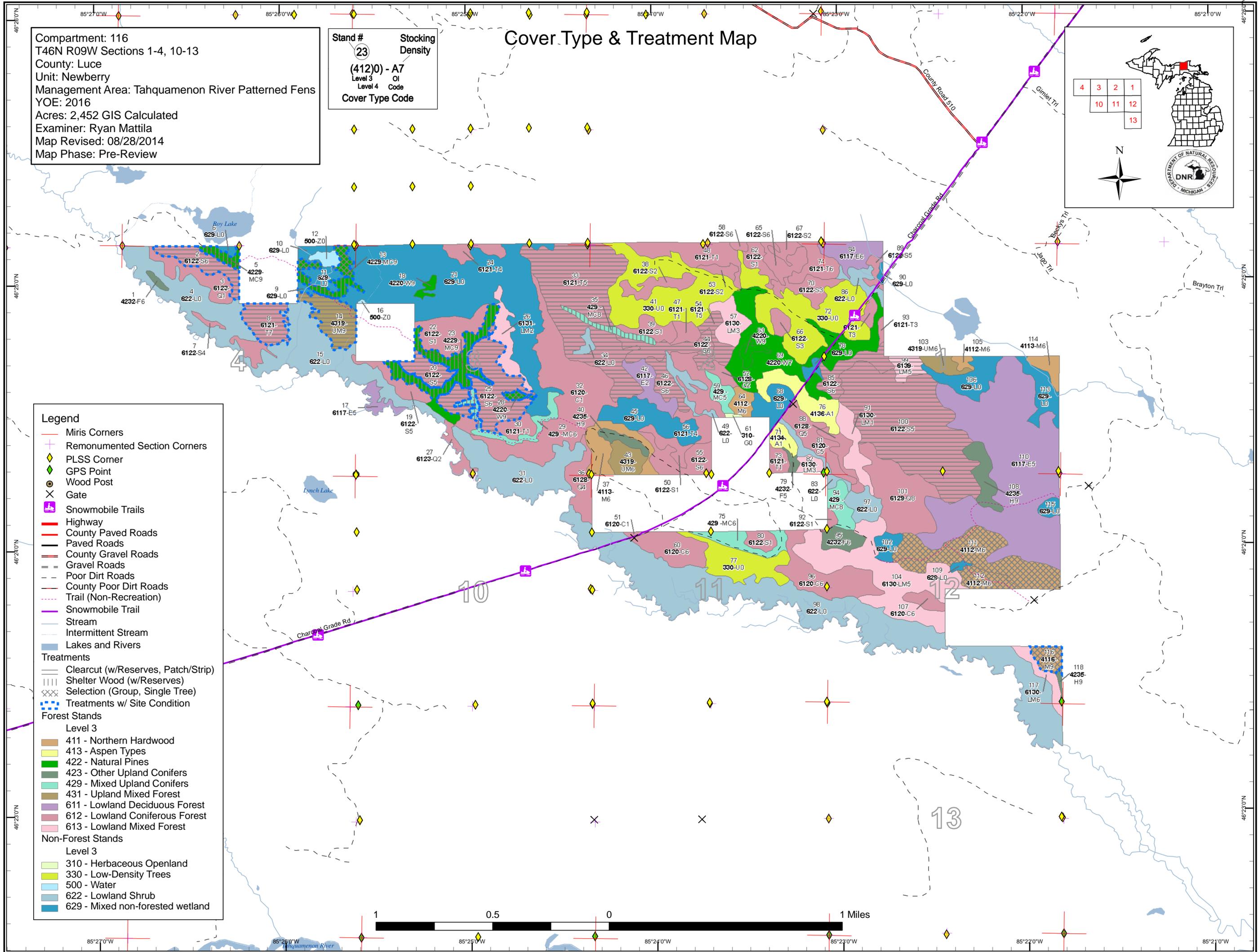
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

Level 3

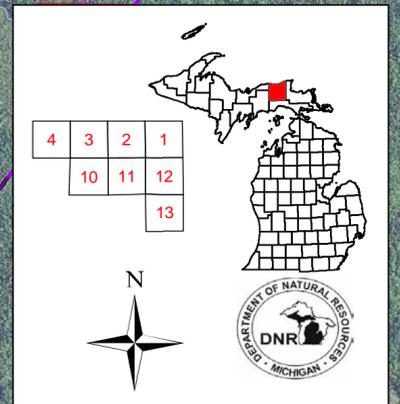
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland



# Stand Boundary Map

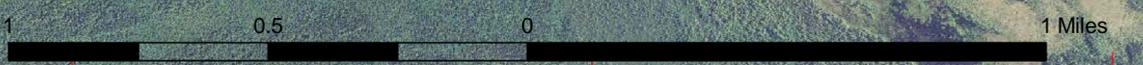
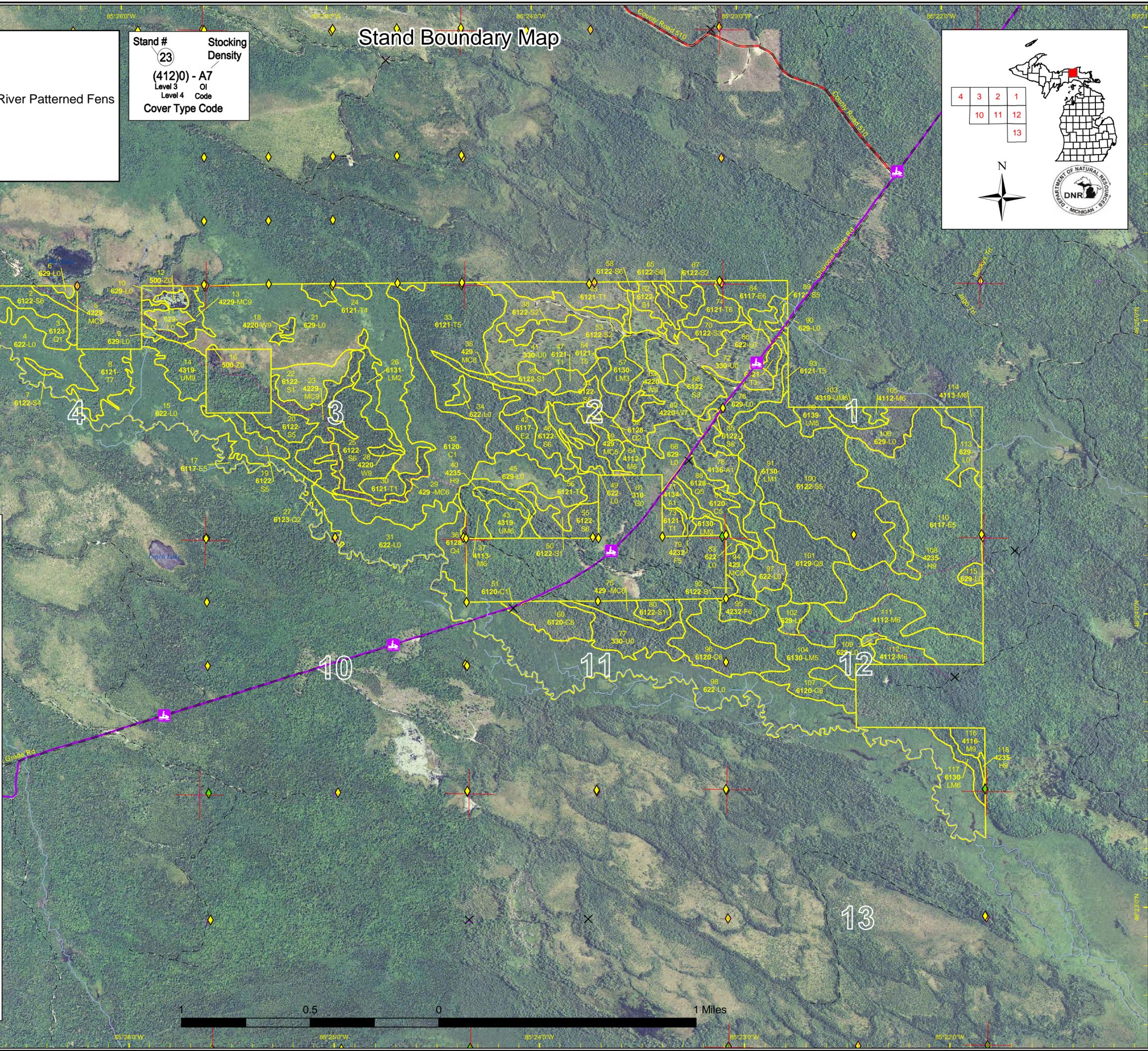
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 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



## Legend

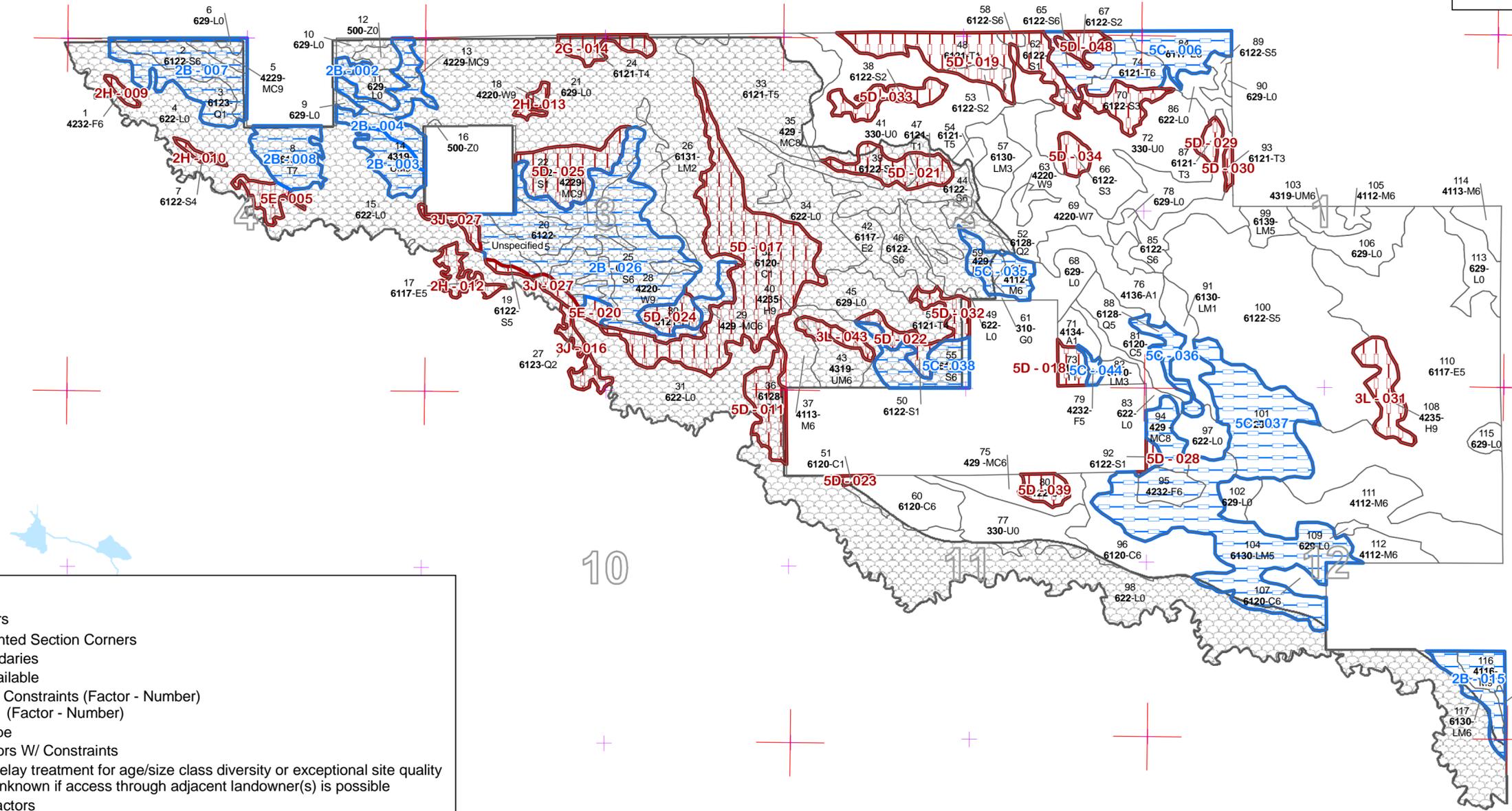
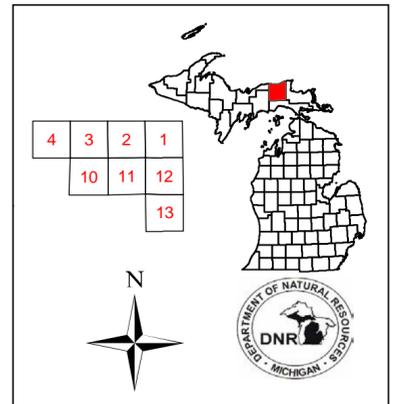
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- ◆ PLSS Corner
- ◆ GPS Point
- Wood Post
- × Gate
- ⚡ Snowmobile Trails
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- Stand Boundaries
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 Examiner: Ryan Mattila  
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 Map Phase: Pre-Review

Stand #  
 23  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code  
 Stacking Density

# Special Conservation Areas & Site Conditions Map



**Legend**

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
  - 5C: Delay treatment for age/size class diversity or exceptional site quality
  - 2B: Unknown if access through adjacent landowner(s) is possible
- Unavailable Factors
  - 2G: Too wet (sensitive soils, does not include access issues)
  - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
  - 3J: Water quality / BMPs (stream, river, or lake)
  - 3L: Other wildlife concerns
  - 5D: Unproductive Forest Land
  - 5E: Long Term Retention
- Reviewable SCAs
- Proposed SCA's
  - Proposed SCA
  - SCA Removal
- Dedicated Special Conservation Areas
  - Cold Water Streams
  - Cold Water Lakes



85°27'0"W 85°26'0"W 85°25'0"W 85°24'0"W 85°23'0"W 85°22'0"W

46°25'0"N  
46°24'0"N  
46°23'0"N

46°25'0"N  
46°24'0"N  
46°23'0"N

Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Cedar	0	0	0	0	0	84	0	0	0	0	59	22	0	0	165
Hemlock	0	0	0	0	0	0	0	0	0	0	6	0	15	0	21
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	165	0	0	0	0	0	0	0	0	0	0	0	0	0	165
Lowland Conifers	0	0	0	7	37	0	0	0	54	0	0	16	0	0	114
Lowland Deciduous	0	0	0	0	200	0	0	7	16	0	0	0	0	0	223
Lowland Mixed Forest	0	0	0	20	28	0	0	9	83	0	0	0	0	0	140
Lowland Shrub	648	0	0	0	0	0	0	0	0	0	0	0	0	0	648
Lowland Spruce/Fir	0	0	0	0	0	23	48	18	262	33	7	0	0	0	391
Natural Mixed Pines	0	0	0	0	0	0	0	0	32	19	0	0	0	0	51
Northern Hardwood	0	0	0	0	10	0	0	0	26	0	73	0	0	0	108
Tamarack	0	0	0	0	0	14	35	0	24	0	0	0	113	32	218
Upland Conifers	0	0	0	0	0	0	0	13	17	19	0	0	0	0	49
Upland Mixed Forest	0	0	0	0	7	0	0	0	11	0	22	0	0	0	40
Upland Spruce/Fir	0	0	0	0	0	0	0	2	2	10	0	0	0	0	14
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	69	3	0	0	0	72
<b>Total</b>	<b>846</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>281</b>	<b>120</b>	<b>83</b>	<b>48</b>	<b>528</b>	<b>150</b>	<b>170</b>	<b>38</b>	<b>128</b>	<b>32</b>	<b>2452</b>



## Report 2 – Proposed Treatment Summaries

**Newberry Mgt. Unit**  
**Year of Entry 2016**

**Compartment 116**  
**Total Compartment Acres: 2,452**

### Acres by Treatment Type

Commercial Harvest - 545    Tree Planting - 0    Other - 0  
 Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	383	0	0	0	0	0	383
Lowland Mixed Forest	8	0	0	0	0	0	8
Mixed Upland Conifers	0	0	0	10	0	0	10
Natural Pines	0	9	0	41	0	0	50
Northern Hardwood	0	73	0	0	0	0	73
Upland Mixed Forest	22	0	0	0	0	0	22
<b>Total</b>	<b>412</b>	<b>82</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>545</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	42116033-Cut	104.6	6121 - Tamarack	Medium Density Pole	125		Harvest	Clearcut with Reserves	613 - Lowland Mixed Forest	Cmpt. Review Proposal

Prescription Clearcut to regenerate, leave pockets of conifer for retention that might benefit moose (hemlock, fir spruce, white pine).

Specs:

Other

Comments:

Next Steps: Do regen check per work instructions, any mix of tree species is acceptable.

Proposed

Start Date: 10/01/2015

35	42116035-Cut	6.2	429 - Mixed Upland Conifers	Medium Density Log	90	51-80	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Cut all jack pine, red maple, black spruce, aspen, and birch. Exclude inoperable slopes for retention. Leave red and white pine and spruce

Specs: unless needed for maneuverability.

Other

Comments:

Next Steps: Do regen check per work instructions, any mix of tree species is acceptable.

Proposed

Start Date: 10/01/2015

44	42116044-Cut	16.6	6122 - Black Spruce	High Density Pole	90		Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
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Prescription Clearcut to regenerate, leave any hemlock and a pocket for retention with maximum species diversity.

Specs:

Other

Comments:

Next Steps: Do regen check per work instructions, any mix of tree species is acceptable.

Proposed

Start Date: 10/01/2015

46	42116046-Cut	11.1	6122 - Black Spruce	High Density Pole	85		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Clearcut to regenerate, leave any hemlock and a pocket for retention with maximum species diversity.

Specs:

Other

Comments:

Next Steps: Do regen check per work instructions, any mix of tree species is acceptable.

Proposed

Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	42116054-Cut	11.4	6121 - Tamarack	Medium Density Pole	86		Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate, leave any hemlock and a pocket for retention with maximum species diversity. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Do regen check per work instructions, any mix of tree species is acceptable. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
85	42116085-Cut	15.7	6122 - Black Spruce	High Density Pole	86		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate, leave a few pockets of conifer, all hemlock and some white pine for retention <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Do regen check per work instructions, any mix of tree species is acceptable. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
99	42116099-Cut	7.7	6139 - Mixed Lowland Forest	Medium Density Pole	80		Harvest	Clearcut	6139 - Mixed Lowland Forest	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate, no retention do to small acreage except leave any hemlock if it exists. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Do regen check per work instructions, any mix of tree species is acceptable. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
100	42116100-Cut	128.5	6122 - Black Spruce	Medium Density Pole	85		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate, leave any hemlock and concentrated conifer pockets for retention. Retention pockets should be left near stands 76, 99 <u>Specs:</u> and 108. <u>Other</u> <u>Comments:</u> <u>Next</u> Do regen check per work instructions, any mix of tree species is acceptable. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
111	42116111-Cut	54.5	4112 - Maple, Beech, Cherry Association	High Density Pole	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Mark to harvest stand to app 80 BA, leave any hemlock, cut aspen/birch only where it can be regenerated, stand wetter to east.

Specs:

Other

Comments:

Next Do regen check per work instructions any mix of tree species is acceptable.

Steps:

Proposed

Start Date: 10/01/2015

112	42116112-Cut	10.7	4112 - Maple, Beech, Cherry Association	High Density Pole	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Mark to harvest to app 80 ba, leave any hemlock, cut aspen/birch only where it can be regenerated.

Specs:

Other

Comments:

Next Do regen check per work instructions any mix of tree species is acceptable.

Steps:

Proposed

Start Date: 10/01/2015

**Total Treatment  
Acreage Proposed: 367.0**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	42116002-Cut	16.5	6122 - Black Spruce	High Density Pole	90		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate leave pocket(s) for retention, place pocket(s) in areas with high species diversity.										
<u>Specs:</u>										
<u>Other Comment:</u>										
<u>Next Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
5	42116005-Cut	5.0	42290 - Natural Mixed Pine	High Density Log	90	141- 170	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark red and white pines to cut, cut all jack pine, red maple, black spruce, aspen, and birch. Exclude inoperatable slopes for retention, leave all										
<u>Specs:</u> hemlock and some large diameter white pine, buffer the low areas appropriately.										
<u>Other Comment:</u>										
<u>Next Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
8	42116008-Cut	18.4	6121 - Tamarack	Low Density Log	90		Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate leave southern portion of stand neer creek for retention (treatment boundary modified to exclude retention)										
<u>Specs:</u>										
<u>Other Comment:</u>										
<u>Next Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
13	42116013-Cut	7.3	42290 - Natural Mixed Pine	High Density Log	90	141- 170	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark red and white pines to cut, cut all jack pine, red maple, black spruce, aspen, and birch. Exclude inoperatable slopes for retention, leave all										
<u>Specs:</u> hemlock and some large diameter white pine, buffer the low areas appropriately.										
<u>Other Comment:</u>										
<u>Next Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	42116013- Cut_small	6.5	42290 - Natural Mixed Pine	High Density Log	90	141- 170	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark red and white pines to cut to a residual BA of 80 BA for wild life concerns (Moose Cover), cut all jack pine, red maple, black spruce, aspen, and birch. Exclude inoperatable slopes for retention, leave all hemlock and some large diameter white pine, buffer the low areas appropriately.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> <u>Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
14	42116014-Cut	22.0	4319 - Mixed Upland Forest	High Density Log	107	141- 170	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate, leave all hemlock and pocket(s) with conifer for retention.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> <u>Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
20	42116020-Cut	12.1	6122 - Black Spruce	Medium Density Pole	82		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to regenerate, leave pocket(s) for retention, place pocket(s) in areas with high species diversity.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> <u>Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
23	42116023-Cut	28.6	42290 - Natural Mixed Pine	High Density Log	88	141- 170	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark red and white pines to cut, cut all jack pine, red maple, black spruce, aspen, and birch. Exclude inoperable slopes for retention. Target residual is an average BA of 60 with the BA throughout the stand being highly variable because of current species composition; some areas of conifers will need to be left heavier to meet the average BA, be sure when marking to leave some large diameter white and red pine for wildlife.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> <u>Steps:</u> Do regen check per work instructions, any mix of tree species is acceptable.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	42116025-Cut	47.8	6122 - Black Spruce	High Density Pole	88		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Clearcut to regenerate, leave a patch for retention between stand 23 and 29, area removed from treatment shape.

Specs:

Other

Comment:

Next Do regen check per work instructions, any mix of tree species is acceptable.

Steps:

Proposed

Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

28	42116028-Cut	2.2	42200 - Natural White Pine	High Density Log	90	141- 170	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Mark red and white pines to cut to target BA of 80, cut all jack pine, red maple, black spruce, aspen, and birch. Exclude inoperatable slopes for retention.

Specs:

Other

Comment:

Next Do regen check per work instructions, any mix of tree species is acceptable.

Steps:

Proposed

Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

29	42116029-Cut	3.8	429 - Mixed Upland Conifers	High Density Pole	90	111- 140	Harvest	Shelter Wood with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Mark red and white pines to cut, cut all jack pine, red maple, black spruce, aspen, and birch. Exclude inoperatable slopes for retention

Specs:

Other

Comment:

Next Do regen check per work instructions, any mix of tree species is acceptable.

Steps:

Proposed

Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

116	42116116-Cut	7.9	4116 - Mixed N. Hardwood - Aspen	High Density Log	100	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Mark stand to harvest to app 80 ba, target larger sawlogs. Leave all hemlock, cut aspen/birch only where it can be regenerated.

Specs:

Other

Comment:

Next Do regen check per work instructions, any mix of tree species is acceptable.

Steps:

Proposed

Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

**Total Treatment  
Acreage Proposed: 178.1**

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Ryan Mattila : Examiner

Compartment 116  
Year of Entry 2016

### Availability for Management

Total Acres	Acres			Dominant Site Conditions									
	Available	Not Available		No	5E	5D	5C	3L	3J	2H	2G	2B	
28	28		<b>Aspen</b>	28									
165	81	84	<b>Cedar</b>	81		84							
21	1	20	<b>Hemlock</b>					20					1
114	91	23	<b>Lowland Conifers</b>	20		16	54		7				17
223	216	7	<b>Lowland Deciduous</b>	200			16			7			
140	140		<b>Lowland Mixed Forest</b>	55			75						9
391	287	104	<b>Lowland Spruce/Fir</b>	176	3	94	30		5	2			81
51	48	3	<b>Natural Mixed Pines</b>						3				48
108	108		<b>Northern Hardwood</b>	94			6						8
218	147	70	<b>Tamarack</b>	116	6	55	13				9		18
49	49		<b>Upland Conifers</b>	19			17						13
40	40		<b>Upland Mixed Forest</b>	18									22
14	12	2	<b>Upland Spruce/Fir</b>				12			2			
72	69	3	<b>White Pine</b>	67						3			2
1,633	1,317	315	Total Forested Acres	874	10	249	224	20	15	13	9		219
	81%	19%	Relative Percent										

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	2	No Limiting Factor			
<b>Comments:</b> access not possible through state land							
003	Available	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	13	No Limiting Factor			
<b>Comments:</b> access not possible through state land							

## Report 5 – Site Conditions

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004	Available	2B: Unknown if access through adjacent landowner(s) is possible	22	No Limiting Factor	
<b>Comments:</b> access not possible through state land					
005	Not Available	5E: Long Term Retention	6	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)
<b>Comments:</b>					
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40		
<b>Comments:</b>					
007	Available	2B: Unknown if access through adjacent landowner(s) is possible	40	No Limiting Factor	
<b>Comments:</b> access not possible through state land					
008	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	No Limiting Factor	No Limiting Factor
<b>Comments:</b> access not possible through state land					
009	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2		
<b>Comments:</b>					

## Report 5 – Site Conditions

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010	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	
<b>Comments:</b>				
011	Not Available	5D: Unproductive Forest Land	16	
<b>Comments:</b>				
012	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				
013	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	
<b>Comments:</b>				
014	Not Available	2G: Too wet (sensitive soils, does not include access issues)	9	
<b>Comments:</b>				
015	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	
<b>Comments:</b>				

Report 5 – Site Conditions

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016 Not Available 3J: Water quality / BMPs (stream, river, or lake) 7

Comments:

017 Not Available 5D: Unproductive Forest Land 83

Comments:

018 Not Available 5D: Unproductive Forest Land 6

Comments:

019 Not Available 5D: Unproductive Forest Land 50

Comments:

020 Not Available 5E: Long Term Retention 3

Comments:

021 Not Available 5D: Unproductive Forest Land 15

Comments:

022 Not Available 5D: Unproductive Forest Land 7

Comments:

Report 5 – Site Conditions

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023	Not Available	5D: Unproductive Forest Land	1	
Comments:				
024	Not Available	5D: Unproductive Forest Land	8	
Comments:				
025	Not Available	5D: Unproductive Forest Land	23	
Comments:				
026	Available	2B: Unknown if access through adjacent landowner(s) is possible	110	
Comments:				
027	Not Available	3J: Water quality / BMPs (stream, river, or lake)	8	
Comments:				
028	Not Available	5D: Unproductive Forest Land	2	
Comments:				

Report 5 – Site Conditions

Newberry Mgt. Unit  
Ryan Mattila : Examiner

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029 Not Available 5D: Unproductive Forest Land 4

Comments:

030 Not Available 5D: Unproductive Forest Land 2

Comments:

031 Not Available 3L: Other wildlife concerns 14 5A: Not able to obtain desirable regeneration

Comments:

032 Not Available 5D: Unproductive Forest Land 7

Comments:

033 Not Available 5D: Unproductive Forest Land 11

Comments:

034 Not Available 5D: Unproductive Forest Land 5

Comments:

Report 5 – Site Conditions

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035	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	
Comments:				
036	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	
Comments:				
037	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	140	
Comments:				
038	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	
Comments:				
039	Not Available	5D: Unproductive Forest Land	6	
Comments:				
043	Not Available	3L: Other wildlife concerns	6	5A: Not able to obtain desirable regeneration
Comments:				

# Report 5 – Site Conditions

Newberry Mgt. Unit  
Ryan Mattila : Examiner

Compartment 116  
Year of Entry 2016

044	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2
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Comments:

048	Not Available	5D: Unproductive Forest Land	4
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Comments:



**Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS**

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Other SCA		SCA Removal	1213.2
<b>Comments</b>				
Remove SCA most of area is non forested low ground the forested areas are difficult access but have evidence of previous cuttings (old road being used as a 4 wheeler trail)				



### Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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## Newberry Mgt. Unit

## Report 8 – Forested Stands

Compartment: 116  
Year of Entry: 2016

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42320 - Upland Spruce	High Density Pole	1.9	75		
6122 - Black Spruce	High Density Pole	16.5	90		
6123 - Lowland Fir	Low Density Sapling	16.7	40		
42290 - Natural Mixed Pine	High Density Log	5.0	90	141-170	
6122 - Black Spruce	Low Density Pole	1.9	75		
6121 - Tamarack	Low Density Log	24.8	Uneven Age		
42290 - Natural Mixed Pine	High Density Log	13.8	90	141-170	
4319 - Mixed Upland Forest	High Density Log	22.0	107	141-170	Stand younger and smaler with more red maple to south
6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	6.8	70		
42200 - Natural White Pine	High Density Log	2.9	107	141-170	
6122 - Black Spruce	Medium Density Pole	10.0	82		
6122 - Black Spruce	Medium Density Pole	12.1	82		
6122 - Black Spruce	Low Density Sapling	23.2	50		
42290 - Natural Mixed Pine	High Density Log	32.2	88	141-170	
6121 - Tamarack	Low Density Pole	8.5	125		
6122 - Black Spruce	High Density Pole	50.9	88		
6131 - Hemlock, White Pine, Maple, Birch	Medium Density	14.6	40		large mature Tamarack along east edge of stand
6123 - Lowland Fir	Medium Density	6.8	30		

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## Newberry Mgt. Unit

## Report 8 – Forested Stands

Compartment: 116  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42200 - Natural White Pine	High Density Log	2.2	90	141-170	
29	429 - Mixed Upland Conifers	High Density Pole	13.2	90	111-140	
30	6121 - Tamarack	Low Density Sapling	8.1	50		
32	6120 - Lowland Cedar	Low Density Sapling	82.5	50		
33	6121 - Tamarack	Medium Density Pole	104.6	125		
35	429 - Mixed Upland Conifers	Medium Density Log	6.2	90	51-80	
36	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	16.2	115		
37	4113 - R.Maple, Conifer	High Density Pole	19.1	85	81-110	
38	6122 - Black Spruce	Medium Density	10.6	65		
39	6122 - Black Spruce	Low Density Sapling	9.7	60		
40	42350 - Upland Hemlock	High Density Log	5.6	107		
42	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	13.5	40		
43	4319 - Mixed Upland Forest	High Density Pole	11.3	85		
44	6122 - Black Spruce	High Density Pole	16.6	90		
46	6122 - Black Spruce	High Density Pole	11.1	85		
47	6121 - Tamarack	Low Density Sapling	5.7	60		
48	6121 - Tamarack	Low Density Sapling	24.2	60		
50	6122 - Black Spruce	Low Density Sapling	7.3	100		



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6120 - Lowland Cedar	Low Density Sapling	1.0	50		
6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	20.1	47		
6122 - Black Spruce	Medium Density	4.1	60		
6121 - Tamarack	Medium Density Pole	11.4	86		
6122 - Black Spruce	High Density Pole	18.8	84		
6121 - Tamarack	Low Density Pole	6.8	Uneven Age		multi aged stand, scattered mature Tamarack ap20 BA with pockets of Black Spruce of variable aged with BF ans BS regen
6130 - Fir, Aspen, Maple	High Density Sapling	13.4	45		
6122 - Black Spruce	High Density Pole	1.6	80		
429 - Mixed Upland Conifers	Medium Density Pole	7.1	86	81-110	
6120 - Lowland Cedar	High Density Pole	22.1	110		
6122 - Black Spruce	Low Density Sapling	8.0	60		
42200 - Natural White Pine	High Density Log	4.2	90	171-200	
4112 - Maple, Beech, Cherry Association	High Density Pole	6.5	86	111-140	
6122 - Black Spruce	High Density Pole	11.3	80		
6122 - Black Spruce	High Density Sapling	5.0	65		
6122 - Black Spruce	Medium Density	4.4	60		
42200 - Natural White Pine	Low Density Log	62.5	90	1-50	
6122 - Black Spruce	High Density Sapling	12.2	74		

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## Newberry Mgt. Unit

## Report 8 – Forested Stands

Compartment: 116  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	4134 - Aspen, Spruce/Fir	Low Density Sapling	6.6	3		
73	6121 - Tamarack	Low Density Sapling	5.6	50		
74	6121 - Tamarack	High Density Pole	13.1	84		
75	429 - Mixed Upland Conifers	High Density Pole	12.7	79		
76	4136 - Aspen, Mixed Conifer	Low Density Sapling	21.7	3		
79	42320 - Upland Spruce	Medium Density Pole	2.2	84		
80	6122 - Black Spruce	Low Density Sapling	6.3	60		
81	6120 - Lowland Cedar	Medium Density Pole	19.4	100		
82	6130 - Fir, Aspen, Maple	High Density Sapling	4.6	30		
84	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	16.0	84		
85	6122 - Black Spruce	High Density Pole	15.7	86		
87	6121 - Tamarack	High Density Sapling	3.5	62		
88	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	8.5	85		
89	6122 - Black Spruce	Medium Density Pole	3.8	75		
91	6130 - Fir, Aspen, Maple	Low Density Sapling	15.0	35		
92	6122 - Black Spruce	Low Density Sapling	1.9	85		
93	6121 - Tamarack	High Density Sapling	1.6	62		
94	429 - Mixed Upland Conifers	Medium Density Log	9.8	82		

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## Newberry Mgt. Unit

## Report 8 – Forested Stands

Compartment: 116  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
95	42320 - Upland Spruce	High Density Pole	9.6	94		
96	6120 - Lowland Cedar	High Density Pole	33.6	100		Stand can not be cut with out cutting cedar
99	6139 - Mixed Lowland Forest	Medium Density Pole	7.7	80		
100	6122 - Black Spruce	Medium Density Pole	128.5	85		
101	6129 - Mixed Coniferous Lowland Forest	Medium Density Log	45.4	82		Stand is mix of upland and lowlands. the higher ground is primarily WP with a BF understory the lower areas are hem, cedar, bs with some wp with bf in the understory. rm and pb is mixed through out the stand
103	4319 - Mixed Upland Forest	High Density Pole	7.0	40		
104	6130 - Fir, Aspen, Maple	Medium Density Pole	75.5	85		
105	4112 - Maple, Beech, Cherry Association	High Density Pole	2.6	40	81-110	
107	6120 - Lowland Cedar	High Density Pole	6.2	100		
108	42350 - Upland Hemlock	High Density Log	14.1	150		
110	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	186.5	40		at least part of stand appers to have been harvested in the 70's using a shelterwood harvest the resulting stand is one with a low density of larger trees and good stocking of small poles manly rm and bf
111	4112 - Maple, Beech, Cherry Association	High Density Pole	54.5	100	111-140	
112	4112 - Maple, Beech, Cherry Association	High Density Pole	10.7	100	111-140	
114	4113 - R.Maple, Conifer	High Density Pole	6.9	40	1-50	stand harvested hard in the 70's the pockets of the old stand that are left are sawlog size. stand can be accessed from the north through the private
116	4116 - Mixed N. Hardwood - Aspen	High Density Log	7.9	100	111-140	stand has a lot of quality sawlogs over small poles that look to have regenerated from a harvest in the 70's there is a vane of aspen through the center of the stand along the old grade
117	6130 - Fir, Aspen, Maple	High Density Pole	8.9	78		

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 116  
Year of Entry: 2016



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S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
118	42350 - Upland Hemlock	High Density Log	1.1	150		

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	622 - Lowland Shrub	51.0	Unspecified	Unspecified	
6	629 - Mixed non-forested wetland	1.6	Unspecified	Unspecified	
9	629 - Mixed non-forested wetland	1.5	Unspecified	Unspecified	
10	629 - Mixed non-forested wetland	4.2	Unspecified	Unspecified	
11	629 - Mixed non-forested wetland	7.5	Unspecified	Unspecified	
12	50 - Water	4.1	Unspecified	Unspecified	
15	622 - Lowland Shrub	63.1	Unspecified	Unspecified	
16	50 - Water	0.3	Unspecified	Unspecified	
21	629 - Mixed non-forested wetland	157.9	Unspecified	Unspecified	
31	622 - Lowland Shrub	50.6	Unspecified	Unspecified	
34	622 - Lowland Shrub	3.1	Unspecified	Unspecified	
41	3302 - Low Density Conifer Trees	70.8	Natural Regen	Upland Conifers	
45	629 - Mixed non-forested wetland	27.9	Unspecified	Unspecified	
49	622 - Lowland Shrub	8.3	Unspecified	Unspecified	
61	310 - Herbaceous Openland	0.7	Unspecified	Unspecified	
68	629 - Mixed non-forested wetland	13.0	Unspecified	Unspecified	
72	3302 - Low Density Conifer Trees	66.1	Natural Regen	Upland Conifers	
77	3303 - Mixed Low Density Trees	28.3	Natural Regen	Upland Mixed Forest	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
78	629 - Mixed non-forested wetland	3.0	Unspecified	Unspecified	
83	622 - Lowland Shrub	7.4	Unspecified	Unspecified	
86	622 - Lowland Shrub	8.0	Unspecified	Unspecified	
90	629 - Mixed non-forested wetland	1.2	Unspecified	Unspecified	
97	622 - Lowland Shrub	10.7	Unspecified	Unspecified	
98	622 - Lowland Shrub	181.9	Unspecified	Unspecified	
102	629 - Mixed non-forested wetland	6.8	Unspecified	Unspecified	
106	629 - Mixed non-forested wetland	18.4	Unspecified	Unspecified	
109	629 - Mixed non-forested wetland	1.6	Unspecified	Unspecified	
113	629 - Mixed non-forested wetland	14.7	Unspecified	Unspecified	
115	629 - Mixed non-forested wetland	4.1	Unspecified	Unspecified	