



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 44

Entry Year 2016

Acreage: 1,865

County Luce

Management Area: Deer Park

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**Revision Date:** 05/01/2014

**Stand Examiner:** Matt Payment

**Legal Description:**

T50N R8W Sections 31 & 32, T49N R8W Sections 6 & 7

**Identified Planning Goals:**

Timber management, recreation, and wildlife are the main uses of the compartment. The goal is to maintain or improve the forest health, and productivity of the area through proper management to promote these uses. Management of the red pine resource within the compartment is the main goal. The southern part of the compartment is part of the Michigan Tech Fire Surrogate Study Area in which various management tools will be tested for managing red pine.

**Soil and topography:**

The compartment is mainly Rubicon sand and Rousseau sand, with some areas of Wallace-Spot complex. The predominant cover types on these upland sand soils are red pine, jack pine, and some red oak. In the few lower ground areas in the compartment Kinross-Augres or Carbondale and Lupton mucks are found with mixed swamp conifer or spruce as the cover type. The topography of the compartment is mainly rolling with some fairly steep ridges scattered throughout the area.

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

The compartment is primarily all state land with only a couple of private parcels. Private land borders the compartment to the east and south with state land bordering to the north and west. Land use in the area entails various forms of outdoor recreation including hunting, fishing, camping, hiking and snowmobiling. Development in the area is minimal to non-existent. Slight development has been established within the vicinity around Pike Lake and Little Lake Harbor

**Unique Natural Features:**

MNFI lists loons occurring in Bodi Lake and Culhane Lake. Both lakes also have several rare plant records (Bodi: lake cress, American shore-grass; Culhane: alternate-leaved water milfoil and American shore-grass). Potential for additional wetland species associated with inland lakes their shores. Potential for GBH rookery, spruce grouse, eagle, osprey, merlin, goshawk, moose, wolf, and Blanding's turtle.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

The North Country Pathway runs through the compartment. All BMP guidelines will be followed with management activities near Bodi Lake, Culhane Lake or Parcell Lakes. Management in the southern portion of the compartment will be in conjunction with the Michigan Tech Fire Surrogate Study Area.

**Watershed and Fisheries Considerations:**

Fisheries Values: Minimal to Good

Fisheries Concerns: This compartment contains a portion of Culhane and Bodi lakes, but the majority of this compartment provides minimal fisheries values. Both Culhane and Bodi lakes are stocked walleye fisheries with ancillary panfish and northern pike fisheries. As indicated by the Valley Segment Classification there is a small coldwater tributary flowing into Culhane Lake (because of the groundwater available in the watershed). Fisheries Division has not conducted a survey here, but a buffer of 100 feet should be placed where treatments are prescribed along the stream. Until a determination is made of whether trout are present or not, the standard BMP's for a coldwater stream should be applied here. Selective cuts are the only prescribed treatments in this compartment so anything near Bodi Lake should maintain a minimum no cut buffer of 75 feet.

**Wildlife Habitat Considerations:**

Compartment 44 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is in the Deer Park Management Area and has the American marten, Kirtland's warbler, piping plover and red crossbill as featured species. The compartment has a heavy mature red pine component but also relatively good diversity of other

cover types including lowland types, upland hardwoods, swamp conifer and some spruce, cedar and oak stands scattered throughout.

Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. Leave trees will provide food sources, nest and den locations and improved stand diversity. Forested corridors should be maintained to facilitate movement from upland areas to lowland areas. Additional wildlife species likely utilizing this compartment include bald eagle, white-tailed deer, black bear, moose, gray wolf, American marten, fisher, and snowshoe hare.

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

Surface sediments consist of lacustrine (lake) sand and gravel and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are not located in the area, but there should be potential on the uplands. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

The compartment is located approximately 25 miles north of Newberry. Access to the compartment can be gained via County Road 500 which is just west of the compartment boundary and also from County Road 506 which enters the southern end of the compartment. County Road 500 is maintained as a year round county road while County Road 506 is a seasonal road and not plowed during the winter months. Several unimproved forest roads and two track roads enter the compartment from the west. A fire lane runs the entire length of the western boundary of the compartment. Access is good to all areas within the compartment.

### **Survey Needs:**

None needed.

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

Recreational opportunities consist of hunting, fishing, hiking, wildlife viewing, berry picking, snowmobiling and ORV use. The Culhane Lake State Forest Campground is located in the northwest corner of the compartment on Culhane Lake. Bodi Lake State Forest Campground is located just north of the compartment on Bodi Lake. The North Country Pathway also provides a maintained hiking trail stretching through the entirety of the compartment. The groomed snowmobile trail system is located just a few miles to the north and south of the compartment.

### **Fire Protection:**

Large fire runs are possible because of the continuous conifer cover types. The terrain poses issues with suppression tactics in areas but overall access is good because of trail road network and sandy soils. Pockets of low areas seem to be surrounded by higher accessible ground.

### **Additional Compartment Information:**

The current bridge crossing Culhane Creek may need to be replaced with a more substantial bridge for timber sale operations in the west half of Section 32 to happen.

### **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**

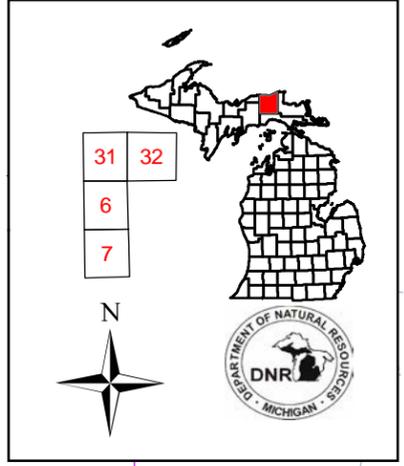
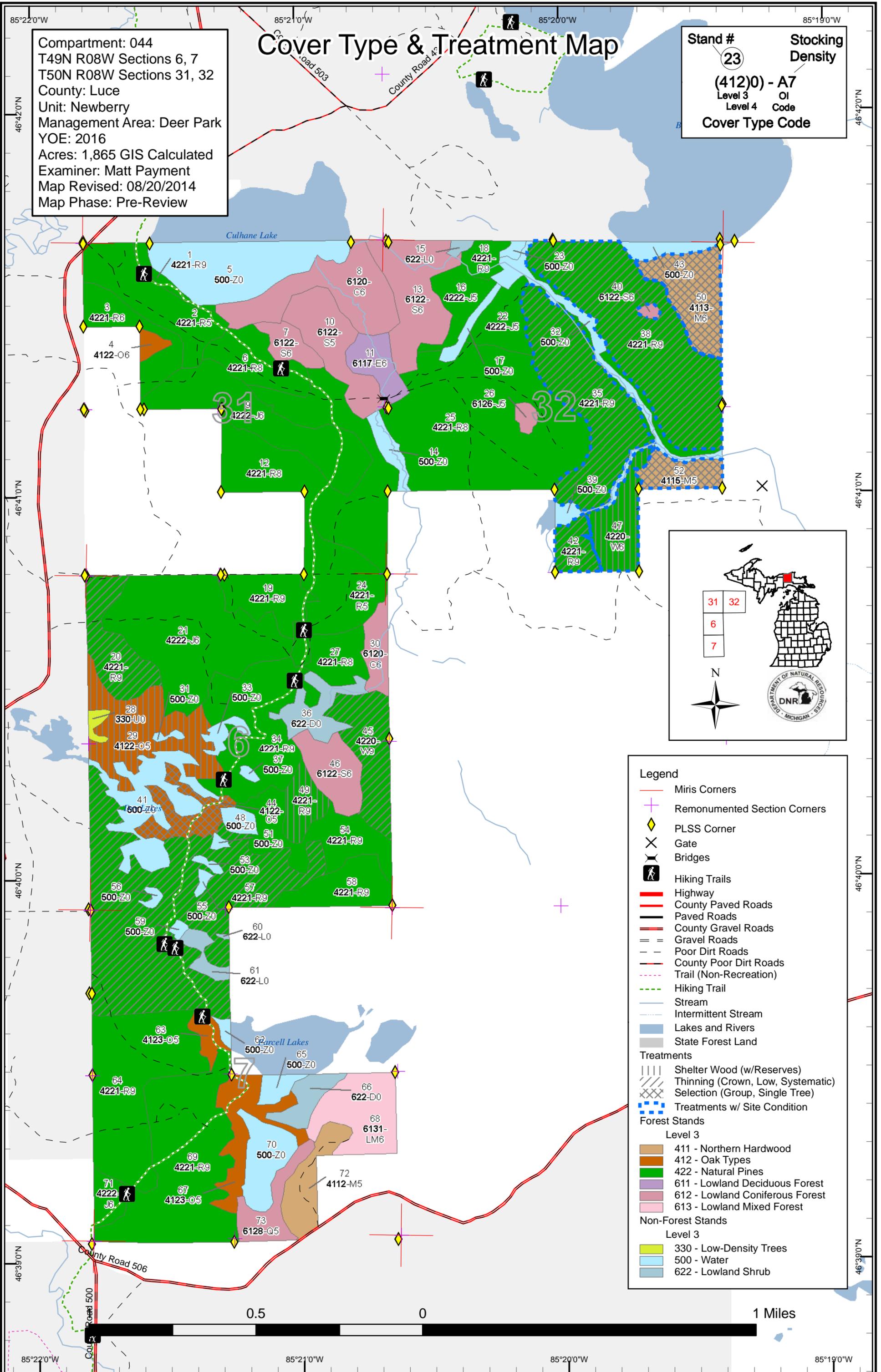
### **The following information is displayed, where pertinent, on the attached compartment maps:**

- 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: 044  
 T49N R08W Sections 6, 7  
 T50N R08W Sections 31, 32  
 County: Luce  
 Unit: Newberry  
 Management Area: Deer Park  
 YOE: 2016  
 Acres: 1,865 GIS Calculated  
 Examiner: Matt Payment  
 Map Revised: 08/20/2014  
 Map Phase: Pre-Review

Stand # **23**  
**(4120) - A7**  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Gate
- Bridges
- Hiking Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Hiking Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

**Treatments**

- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Treatments w/ Site Condition

**Forest Stands**

**Level 3**

- 411 - Northern Hardwood
- 412 - Oak Types
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

**Level 3**

- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



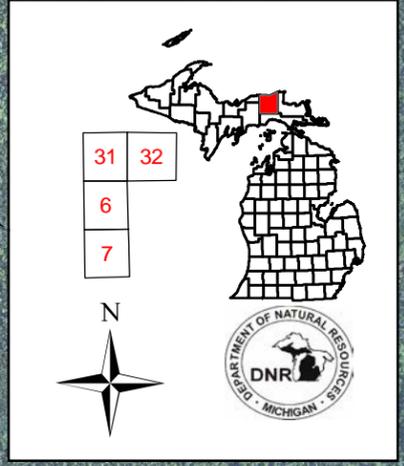
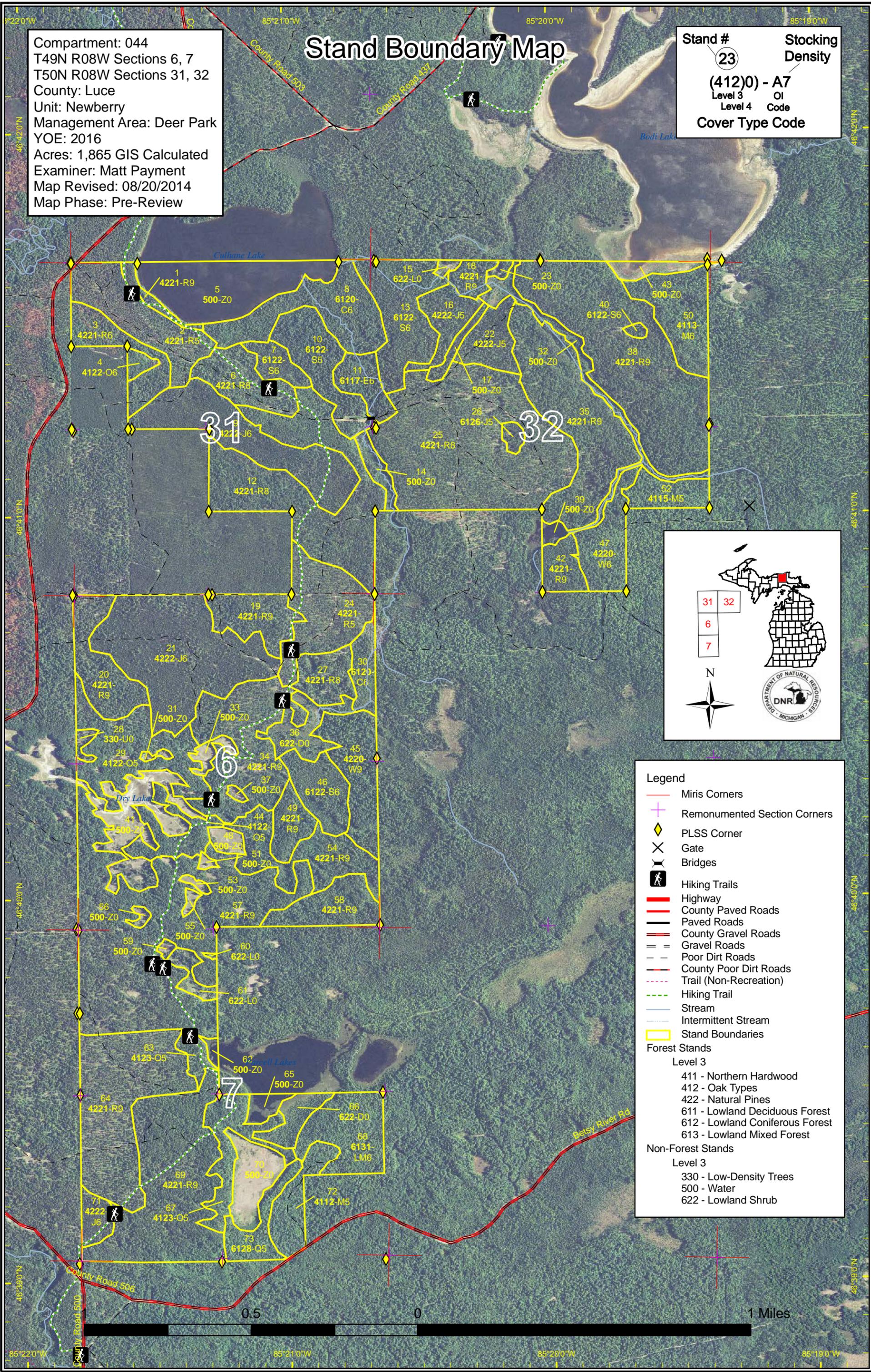
85°22'0"W 85°21'0"W 85°20'0"W 85°19'0"W

46°42'0"N 46°41'0"N 46°40'0"N 46°39'0"N

Compartment: 044  
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 Map Revised: 08/20/2014  
 Map Phase: Pre-Review

# Stand Boundary Map

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



**Legend**

- Miris Corners
- + Remonumented Section Corners
- ◆ PLSS Corner
- X Gate
- Bridges
- Hiking Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- - - Hiking Trail
- Stream
- - - Intermittent Stream
- Stand Boundaries

**Forest Stands**

**Level 3**

- 411 - Northern Hardwood
- 412 - Oak Types
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

**Level 3**

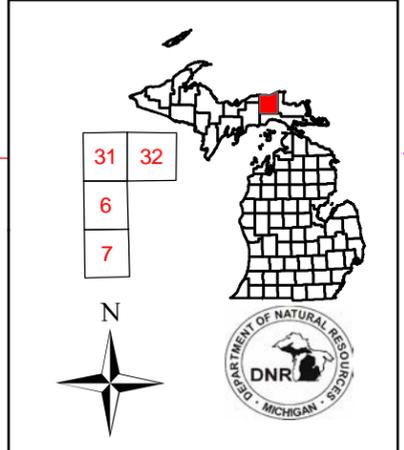
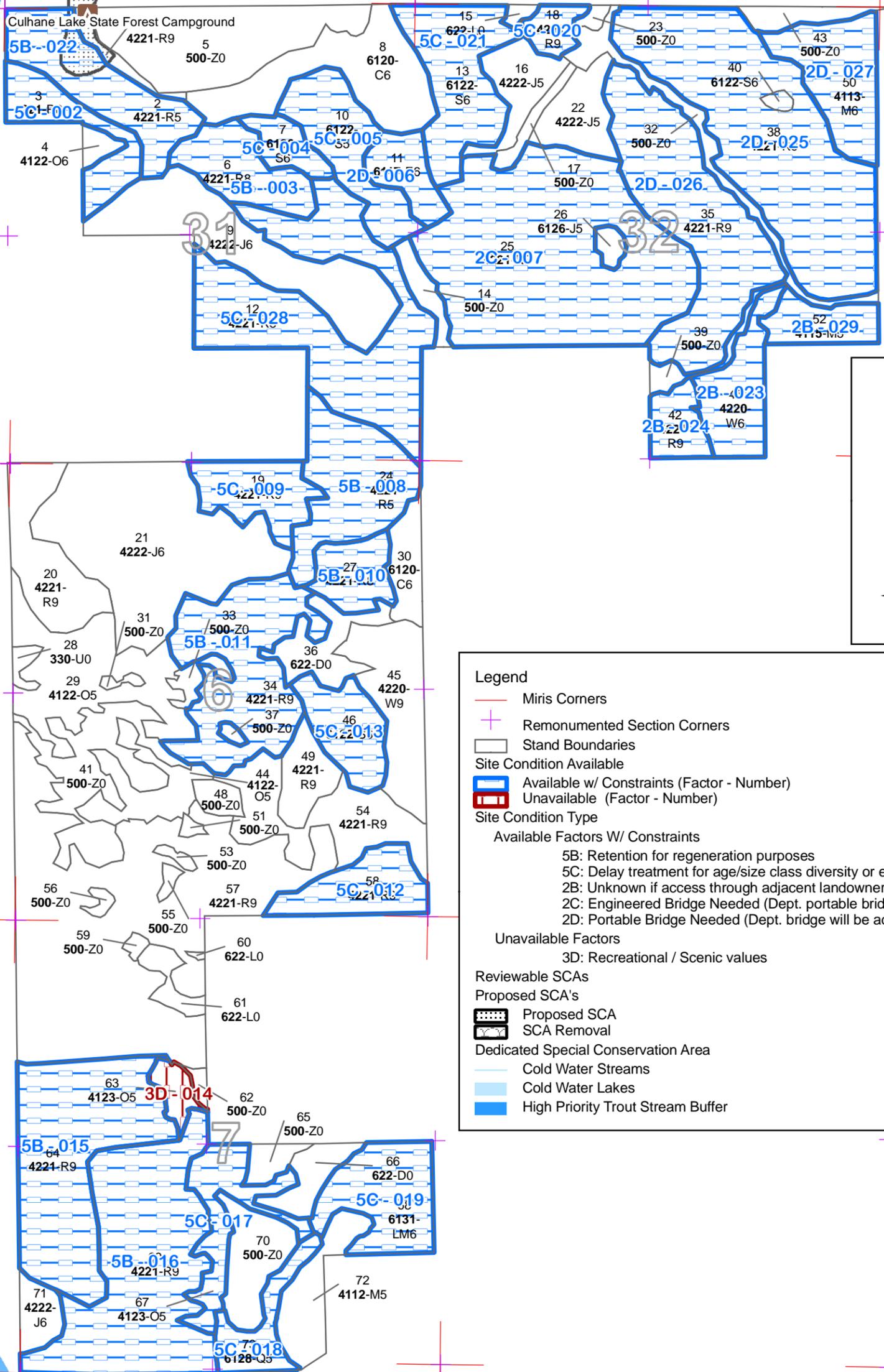
- 330 - Low-Density Trees
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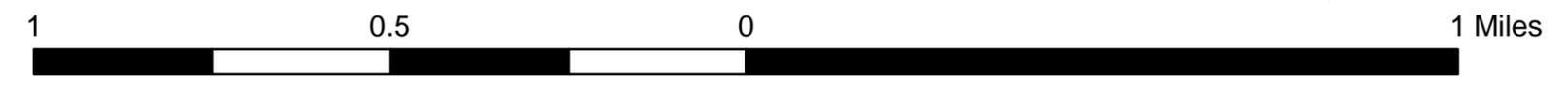
# Special Conservation Areas & Site Conditions Map

**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**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
    - 5B: Retention for regeneration purposes
    - 5C: Delay treatment for age/size class diversity or exceptional site quality
    - 2B: Unknown if access through adjacent landowner(s) is possible
    - 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
    - 2D: Portable Bridge Needed (Dept. bridge will be adequate)
  - Unavailable Factors
    - 3D: Recreational / Scenic values
- Reviewable SCAs
- Proposed SCA's
  - Proposed SCA
  - SCA Removal
- Dedicated Special Conservation Area
  - Cold Water Streams
  - Cold Water Lakes
  - High Priority Trout Stream Buffer



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
Cedar	0	0	0	0	0	0	0	0	0	0	11	42	0	0	53
Jack Pine	0	0	0	116	62	3	0	0	0	0	0	0	0	0	181
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	15	0	0	0	0	0	15
Lowland Deciduous	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Lowland Mixed Forest	0	0	0	0	0	0	0	0	32	0	0	0	0	0	32
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	21	81	0	0	0	0	101
Northern Hardwood	0	0	0	0	0	0	0	0	31	32	0	0	0	0	63
Oak	0	0	0	0	0	0	0	0	46	48	0	0	0	0	95
Red Pine	0	0	0	0	0	0	0	0	7	309	610	0	125	0	1052
Treed Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Water	170	0	0	0	0	0	0	0	0	0	0	0	0	0	170
White Pine	0	0	0	0	0	0	0	0	0	0	23	0	0	30	54
<b>Total</b>	<b>207</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>62</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>211</b>	<b>424</b>	<b>652</b>	<b>0</b>	<b>155</b>	<b>1865</b>



## Report 2 – Proposed Treatment Summaries

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

**Compartment 044**  
**Total Compartment Acres: 1,865**

### Acres by Treatment Type

Commercial Harvest - 540	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Natural Pines</b>	0	0	0	36	397	0	<b>433</b>
<b>Northern Hardwood</b>	0	45	0	0	0	0	<b>45</b>
<b>Oak Types</b>	0	17	0	45	0	0	<b>62</b>
<b>Total</b>	<b>0</b>	<b>62</b>	<b>0</b>	<b>81</b>	<b>397</b>	<b>0</b>	<b>540</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
20	42044020-Cut	27.4	42210 - Natural Red Pine	High Density Log	108	111-140	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Remove all Jack pine and thin Red and White pine to 80-100 BA. Leave 1-3 large White pine per acre. Leave all Red oak and Paper birch.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
29	42044029-Cut	44.9	4122 - Oak, Pine	Medium Density Pole	100	111-140	Harvest	Shelter Wood with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark all species to 60-90 BA. Leave all oak over 12" in diameter. Goal is to promote oak regeneration within the stand by thinning oak under										
<u>Specs:</u> 12".										
<u>Other</u>										
<u>Comments:</u> Buffer lakes and low areas.										
Avoid steep ridges and sensitive low areas near water.										
<u>Next</u>										
<u>Steps:</u> Regeneration check and scarify if needed. Acceptable regeneration is present species.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
44	42044044-Cut	16.8	4122 - Oak, Pine	Medium Density Pole	92	111-140	Harvest	Single Tree Selection	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark stand down to 70-90 BA. Targeting red oak, red pine, and white pine. Leave all oak over 12" in diameter. Goal is to promote oak										
<u>Specs:</u> regeneration within the stand by thinning oak under 12".										
<u>Other</u>										
<u>Comments:</u> WLD - Buffer lakes and low areas.										
Avoid steep ridges and sensitive low areas near water.										
North Country Trail runs through the stand.										
<u>Next</u>										
<u>Steps:</u> Regeneration check and scarify if needed. Acceptable regeneration is present species.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
45	42044045-Cut	30.4	42200 - Natural White Pine	High Density Log	104	141-170	Harvest	Crown Thinning	4220 - Natural White Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark all species to 70-100 BA. Leave 1-3 super canopy White pine per acre. Leave all oak.										
<u>Specs:</u> Concentrate leaving more super canopy white pine along stand 36.										
<u>Other</u>										
<u>Comments:</u> Access from the north or west will require a culvert.										
<u>Next</u>										
<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
49	42044049-Cut	12.7	42210 - Natural Red Pine	High Density Log	119	111-140	Harvest	Shelter Wood with Reserves	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood with reserves leaving a residual of 40-60 BA by removing larger canopy species and promoting advanced regeneration growth.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regeneration Check and scarify if needed. Acceptable regeneration is present species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
57	42044057-Cut	155.3	42210 - Natural Red Pine	High Density Log	114	111-140	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin stand 70-100 BA. Thin smaller oak where needed and leave any oak 12" or greater. Leave some super canopy white pine.										
<u>Specs:</u>										
1-3 Super canopy white pine per acre outside of lake/low buffer areas to be left.										
Buffer low wet areas accordingly.										
<u>Other</u> North Country Trail runs through the stand.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										

**Total Treatment  
Acreage Proposed: 287.5**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	42044035-Cut	69.8	42210 - Natural Red Pine	High Density Log	111	111- 140	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark stand to 70-100 BA. Leave 1-3 large White pine per acre. Leave all oak and paper birch.										
<u>Specs:</u>										
<u>Other</u> Buffer streams accordingly. Leave 100 foot buffer along creek.										
<u>Comment:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
38	42044038-Cut	103.0	42210 - Natural Red Pine	High Density Log	106	111- 140	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Re-mark stand removing all species 80-100 BA. Leave all oak and paper birch.										
<u>Specs:</u>										
<u>Other</u> Stand was marked in 1999 and the sale went unsold. Try to remark as best as possible the previously painted trees. Leave 100 foot buffer										
<u>Comment:</u> along creek.										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
42	42044042-Cut	11.5	42210 - Natural Red Pine	High Density Log	108	111- 140	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 70-100 BA. Leave all hemlock and paper birch.										
<u>Specs:</u>										
<u>Other</u> Buffer streams accordingly.										
<u>Comment:</u> Stand should be cut with stand to the east for access reasons. Best access is from the west through private property.										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
47	42044047-Cut	23.2	42200 - Natural White Pine	High Density Pole	106	81-110	Harvest	Shelter Wood with Reserves	4220 - Natural White Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin stand marking it down to 50-80 BA. Leave all hemlock and oak.										
<u>Specs:</u>										
Leave larger white pine along the creek to the west.										
<u>Other</u> Access best from the west through private property. Stand should be cut with adjacent stand to the west.										
<u>Comment:</u>										
<u>Next</u>										
<u>Steps:</u> Regeneration check and scarify if needed. Acceptable regeneration is present species.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50 42044050-Cut	30.6	4113 - R.Maple, Conifer	High Density Pole	94	81-110	Harvest	Single Tree Selection	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Thin stand 60-90 BA. Remove hemlock only if needed for maneuverability.

Specs:  
Buffer any vernal ponds if found.

Other Comment: Access will have to be through adjacent stand and private property to the west or through private property from the east.

Next Steps: Regeneration check. Acceptable regeneration is present species.

Proposed Start Date: 10/01/2015

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

52 42044052-Cut	14.2	4115 - Y.Birch, Hemlock NH	Medium Density Pole	101	81-110	Harvest	Single Tree Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
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Prescription Thin stand 60-90 BA. Remove hemlock only if needed for maneuverability.

Specs:  
Buffer any vernal ponds if found.

Other Comment: Regeneration check. Acceptable regeneration is present species.

Next Steps:  
Proposed Start Date: 10/01/2015

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

**Total Treatment  
Acreage Proposed: 252.4**

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Matt Payment : Examiner

Compartment 044  
Year of Entry 2016

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions						
	Available	Not Available		No	5C	5B	3D	2D	2C	2B
53	53		Cedar	53						
181	181		Jack Pine	181						
15	15		Lowland Conifers		15					
14	14		Lowland Deciduous					14		
32	32		Lowland Mixed Forest		32					
101	101		Lowland Spruce/Fir	0	99			1		
63	63		Northern Hardwood	18				31		14
95	88	6	Oak	65	23		6			
1051	1051		Red Pine	237	158	336		180	129	12
54	54		White Pine	30						23
1,657	1,651	6	Total Forested Acres	585	326	336	6	225	129	49
	100%	0%	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>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21				
<b>Comments:</b>							
003	Available	<b>5B: Maintain for regeneration purposes</b>	24				
<b>Comments:</b>							
004	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10				
<b>Comments:</b>							

Report 5 – Site Conditions

Newberry Mgt. Unit  
 Matt Payment : Examiner

Compartment 044  
 Year of Entry 2016

005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30		
Comments:					
006	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	14	5C: Delay treatment for age/size class diversity or exceptional site quality	
Comments:					
007	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	129	5B: Maintain for regeneration purposes	
Comments:					
008	Available	5B: Maintain for regeneration purposes	41		
Comments:					
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22		
Comments:					
010	Available	5B: Maintain for regeneration purposes	16		
Comments:					

**Report 5 – Site Conditions**

Newberry Mgt. Unit  
 Matt Payment : Examiner

Compartment 044  
 Year of Entry 2016

011	Available	5B: Maintain for regeneration purposes	57	
Comments:				
012	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	
Comments:				
013	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	
Comments:				
014	Not Available	3D: Recreational / Scenic values	6	5C: Delay treatment for age/size class diversity or exceptional site quality
Comments:				
015	Available	5B: Maintain for regeneration purposes	74	
Comments:				
016	Available	5B: Maintain for regeneration purposes	88	
Comments:				

Report 5 – Site Conditions

Newberry Mgt. Unit  
 Matt Payment : Examiner

Compartment 044  
 Year of Entry 2016

017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23		
Comments:					
018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15		
Comments:					
019	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32		
Comments:					
020	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7		
Comments:					
021	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	2D: Portable Bridge Needed (Dept. bridge will be adequate)	
Comments:					
022	Available	5B: Maintain for regeneration purposes	37		
Comments:					

## Report 5 – Site Conditions

Newberry Mgt. Unit  
 Matt Payment : Examiner

Compartment 044  
 Year of Entry 2016

023	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	23	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
<b>Comments:</b>				
024	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	12	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
<b>Comments:</b>				
025	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	109	
<b>Comments:</b>				
026	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	72	
<b>Comments:</b>				
027	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	31	2B: Unknown if access through adjacent landowner(s) is possible
<b>Comments:</b>				

**Report 5 – Site Conditions**

**Newberry Mgt. Unit**  
**Matt Payment : Examiner**

**Compartment 044**  
**Year of Entry 2016**

028	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	86
Comments:			
029	Available	2B: Unknown if access through adjacent landowner(s) is possible	14
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.

<b>SCA Name</b>	<b>SCA Category</b>	<b>Detail Type</b>	<b>Recommendation</b>	<b>Acres</b>
<b>Culhane Lake State Forest Campground</b>	Concentrated Recreation Area	State Forest Campground	<b>SCA</b>	12.4
<b>Comments</b> Culhane Lake State Forest Campground, previously called a boat launch as well. Boat launch is separate from the campground in the compartment to the north.				



**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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42210 - Natural Red Pine	High Density Log	4.9	Uneven Age	141-170	Stand is next to Culhane Lake State Forest Campground and has the North Country Trail running through it.  There is nice red pine with some advanced red oak regeneration coming in nicely. There are thick areas of larger understory black spruce coming in as well.  Maintain buffer along the lake for BMP and scenic values.
2	42210 - Natural Red Pine	Medium Density Pole	37.4	108	81-110	Stand is along County Road 500 and Culhane State Forest Campground. There is nice pole size red pine in the stand with some scattered red oak.  Sale was cut as Pale Marker #025-06-01 and completed 11/19/08.
3	42210 - Natural Red Pine	High Density Pole	20.9	108	81-110	Steep ridge running northwest southeast. There are varying regeneration heights in the stand.  The stand is a mixed bag of species. There is some scattered paper birch throughout.
4	4122 - Oak, Pine	High Density Pole	3.4	104	111-140	There is really good red oak regeneration in this stand. Stand sits up on a nob and has scattered red pine and decent white pine throughout it. Some small amounts of paper birch scattered as well.
6	42210 - Natural Red Pine	Medium Density Log	23.8	105	111-140	Small pocket of jack pine on west end of stand and some scattered throughout the rest of the stand. Nice diameter red pine in the stand.  Some paper birch scattered in the stand as well.  North Country Trail run through the stand.
7	6122 - Black Spruce	High Density Pole	9.7	90	111-140	Nice spruce with decent cedar within the stand. Some scattered red pine in the stand.
8	6120 - Lowland Cedar	High Density Pole	41.6	114	51-80	Stand is mainly cedar with some minor species throughout it. There is a stream that runs through the middle of the stand. Some large white pine scattered throughout the stand.
9	42220 - Natural Jack Pine	High Density Pole	53.1	44	111-140	Some scattered red and white pine in the stand. Mainly consists of jack pine which is smaller and not very old.  North Country Trail runs through the stand.
10	6122 - Black Spruce	Medium Density Pole	29.9	94	81-110	Stand has species variability in it. It is low and very wet. Some large red and white pine scattered throughout the stand. There is some scattered cedar as well.
11	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	13.7	89	81-110	Stand is very wet and the timber looks low quality. The birch is dying out in the stand. There are some large white pine scattered throughout the stand. There is a creek through the middle of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	42210 - Natural Red Pine	Medium Density Log	85.6	Uneven Age	111-140	Scattered red pine throughout with some paper birch. Decent white pine coming in underneath the red pine.  North Country Trail runs through the stand.
13	6122 - Black Spruce	High Density Pole	39.4	90	81-110	Stand is very wet, low ground. It has some large white pine scattered within the stand.  Bridge may be needed to access stand.
16	42220 - Natural Jack Pine	Medium Density Pole	15.4	39	81-110	Stand is mainly jack pine. South end of the stand has a little more red pine. Some white pine and balsam fir coming up in the understory.  Stand was cut in 1975.
18	42210 - Natural Red Pine	High Density Log	7.3	97	81-110	Small stand of red pine remote access from the north would be best. Some scattered jack pine, red maple, and red oak in the stand. Small acreage, recommend leaving it.
19	42210 - Natural Red Pine	High Density Log	21.7	104	81-110	Scattered red oak and jack pine in the stand. There is a good amount of red maple regeneration in the stand as well. Scattered larger oak in the stand.  North Country Trail runs through a small portion of the stand.
20	42210 - Natural Red Pine	High Density Log	27.4	108	111-140	Large red pine mixed with jack pine and some scattered white pine in the stand. Also some small red maple scattered throughout the stand.
21	42220 - Natural Jack Pine	High Density Pole	84.5	35	171-200	Small diameter jack pine stand. Some large red and white pine scattered throughout the stand.
22	42220 - Natural Jack Pine	Medium Density Pole	16.5	39	51-80	Large red and white pine scattered throughout the stand.  Stand was cut in 1975 and transitioning into a J6.  Access from west acrossed culhane creek.
24	42210 - Natural Red Pine	Medium Density Pole	40.8	104	111-140	Stand has good quality timber, and decent smaller pole sized timber.  North Country Trail runs through the stand.
25	42210 - Natural Red Pine	Medium Density Log	128.8	114	81-110	Thinner red pine in the middle of the stand compared to the rest of it. The edges of the stand are considerably larger than areas in the middle. Red oak and white pine scattered throughout the stand. There is a larger steep ridge on the north end of the stand.  Sale was cut as Culhane Creek Pine #029-06-01, and finished 12/10.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6126 - Lowland Jack Pine	Medium Density Pole	3.1	59	81-110	Small pocket of jack pine interior to the larger red pine stand. The stand is currently holding water in some parts. There are red pine around the edges with most of the jack pine concentrated in the middle of the stand.
27	42210 - Natural Red Pine	Medium Density Log	15.7	104	111-140	Stand is hilly with steep ridges. Some openings along the ridges. Some jack pine scattered along the ridges with red maple. Some red oak sparse large trees 8-12".  Stand was cut in 1986.  North Country Trail runs through the stand.
29	4122 - Oak, Pine	Medium Density Pole	44.9	100	111-140	Dry Lakes area stand is a mixed bag of pine and oak. Varying terrain from rolling hills to steep ridges. Low spots almost are all holding water in this stand. Some scattered jack pine throughout the stand. There is some very nice red oak in the stand.
30	6120 - Lowland Cedar	High Density Pole	11.0	109	111-140	Stand is mainly cedar with some black spruce. There is a creek running through the stand. Some areas have pockets of blown downs. Stand has a lot of standing water in it. Some paper birch in the higher areas scattered throughout.
34	42210 - Natural Red Pine	High Density Log	57.4	114	81-110	Stand has some nice red oak and white pine throughout with nice red pine dominating the overstory. There is some scattered red maple, jack pine, black spruce, and paper birch. The black spruce is prevalent around the fingers where the stand extends into the lower wet areas.  Stand was cut as #030-06-01.  North Country Trail runs through the stand.
35	42210 - Natural Red Pine	High Density Log	72.2	111	111-140	Stand has large diameter red pine with areas of scattered paper birch, black spruce, and white pine. Stand has some open areas scattered throughout. Some scattered red oak in the stand. Larger red oak found more on the north end of the stand.  Access will come from the west across Culhane Creek. Temporary bridge may be needed on top of the existing permanent bridge.
38	42210 - Natural Red Pine	High Density Log	109.7	106	111-140	Stand was set up as "Culhane Pine" 2001. Sale was never cut. Stand will need to be re-marked since stump marks are faded out. Stand has scattered jack pine and black spruce throughout. Access was to be from the north and will require a culvert and portable bridge. Some scattered red oak throughout the stand.
40	6122 - Black Spruce	High Density Pole	1.5	90	81-110	Small pocket of black spruce surrounded by larger red pine. Stand has standing water in most parts of it.
42	42210 - Natural Red Pine	High Density Log	11.5	108	111-140	Red Pine in the stand looks bigger on the north end. Some scattered red maple, paper birch, and balsam fir.  Sale went unsold last time prescribed. It was held for 10 years and should be sold with stand 48.  Access into the stand from the west or east through private land.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4122 - Oak, Pine	Medium Density Pole	16.8	92	111-140	<p>Rolling hilly terrain with good white pine regeneration in the lower spots. Some nice red oak and red and white pine in the stand with scattered red maple and paper birch. Some black spruce mainly concentrated near lower wet areas. Some occasional scattered jack pine in the stand as well.</p> <p>Some steeper ridges that extend out into areas of Dry Lakes complex.</p> <p>North Country Trail runs through the stand.</p>
45	42200 - Natural White Pine	High Density Log	30.4	Uneven Age	141-170	<p>Varying sized white pine in the stand with a heavy understory consisting mainly of paper birch, balsam fir, and black spruce. Wet areas have some cedar in them. Culvert needed to cross from west for logging operations.</p>
46	6122 - Black Spruce	High Density Pole	20.5	86	81-110	<p>Stand has some large white pine along a ridge. Mostly a low wet stand with standing water in a majority of it.</p>
47	42200 - Natural White Pine	High Density Pole	23.2	106	81-110	<p>Stand has a creek in the northwest corner of it. Mix stand with balsam fir, paper birch, red maple, and cedar in it. Dominant species is white pine.</p> <p>Sale should be set up with stand 43 adjacent to it for access reasons.</p> <p>Access should be from the west through private property with a temporary bridge possibly needed over Culhane Creek.</p>
49	42210 - Natural Red Pine	High Density Log	12.7	119	111-140	<p>Stand has large red and white pine in it. Thicker advanced regeneration coming up in the stand of white pine, balsam fir, black spruce, and red maple. Some lower areas scattered in the stand.</p>
50	4113 - R.Maple, Conifer	High Density Pole	30.6	94	81-110	<p>Low quality red maple has many seams and splits. Some nice yellow birch in the stand. Scattered pockets of cedar and black spruce in the lower areas. Lower basal area pocket have more advanced regeneration than other portions of the stand. The stand has rolling topography. Stand border south side of Bodi Lake.</p>
52	4115 - Y.Birch, Hemlock NH	Medium Density Pole	14.2	101	81-110	<p>Very species diverse stand. Some rolling topography within the stand. Large white pine in the stand with a thick balsam fir understory and low quality red maple stems. Some larger red maple and yellow birch scattered throughout the stand as well. Some cedar present in the stand with spruce as well. Low quality red maple has many seams and splits. Strip of hemlock along the private land to the south. Remote access from the east.</p>
54	42210 - Natural Red Pine	High Density Log	34.5	Uneven Age	141-170	<p>Stand is comprised of mainly red and white pine with some jack pine and paper birch scattered throughout with cedar taking hold in the real wet spots. Most of the stand is advanced regeneration. White pine more prevalent in lower areas than the red pine.</p> <p>Stand was cut in 1979.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42210 - Natural Red Pine	High Density Log	155.3	114	111-140	
58	42210 - Natural Red Pine	High Density Log	22.3	119	111-140	Some big red and white pine in this stand. Some rolling terrain with lower wet areas with more white regeneration in them. Some scattered paper birch present. Stand would be better to cut in the next rotation given the crowns are still spaced well and the basal area range is still 100-140.
63	4123 - Red Oak	Medium Density Pole	6.2	94	81-110	Stand has red oak, red maple and the occasional beech with large red and white pine. Some black spruce scattered throughout the stand.  Stand has steep ridges that descend down to Parcell Lakes and the North Country Trail runs through the stand.
64	42210 - Natural Red Pine	High Density Log	73.9	119	81-110	There is large red pine and white pine in the stand with jack pine scattered throughout. Some red maple and thicker white pine in the understory. Some scattered large red oak and small amount of regeneration in the stand.  Stand is part of the MTU fire study blocks.
67	4123 - Red Oak	Medium Density Pole	23.2	94	81-110	Stand is mainly red oak with some red maple, beech and some nice quality red pine. Steep ridge running north to south along Parcell Lakes. Stand borders Parcell Lakes with a small portion of the North Country Trail running through it.  Stand has scenic values.
68	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	31.5	99	141-170	Some scattered white pine in the stand with some beech and paper birch. Stand is heavy to hemlock, black spruce, and red maple. The paper birch is dying out and there are pockets that are heavier to hemlock and black spruce. Stand has a very thick understory.
69	42210 - Natural Red Pine	High Density Log	88.0	119	111-140	Stand has large red pine with some white pine and red oak scattered throughout. Some scattered paper birch in the stand. Rolling terrain with a steep ridge on the south end.  Has heavier crown cover compared to the stand to the east that separated it from being one stand.  Stand was thinned 1976-1979. Stand is part of the MTU fire study blocks.
71	42220 - Natural Jack Pine	High Density Pole	8.4	45	111-140	Stand is mainly jack pine with a few large scattered red and white pine.  Stand was cut 1969. Stand is just entering merchantability. Stand looks very nice.

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 044  
Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	4112 - Maple, Beech, Cherry Association	Medium Density Pole	18.2	104	51-80	Stand is low and wet with good amount of dead beech and dying red maple. Wood is low quality throughout the stand. Stand has a thick understory coming in with large amount of the overstory beginning to die out. Stand serves for wildlife purposes until the understory becomes larger.  Previous inventory states the stand was cut by stump diameter harvest in 1986-1987. The quality was greatly reduced in the stand which can easily still be seen today.
73	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	15.1	99	141-170	Stand is very wet with a thick understory with large overstory hemlock. Beech and paper birch are dying out in the stand. Some scattered large white pine in the stand. Stand has low quality with lots of variability.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	50 - Water	49.3	Unspecified	Unspecified	
14	50 - Water	6.8	Unspecified	Unspecified	
15	622 - Lowland Shrub	1.7	Unspecified	Unspecified	
17	50 - Water	4.6	Unspecified	Unspecified	
23	50 - Water	1.8	Unspecified	Unspecified	pre inventory call was forested but during inventory the stand is all water.
28	3302 - Low Density Conifer Trees	2.5	Unspecified	Unspecified	
31	50 - Water	1.2	Unspecified	Unspecified	
32	50 - Water	16.5	Unspecified	Unspecified	
33	50 - Water	4.6	Unspecified	Unspecified	
36	6224 - Treed Bog	15.9	Unspecified	Unspecified	
37	50 - Water	1.2	Unspecified	Unspecified	
39	50 - Water	5.3	Unspecified	Unspecified	
41	50 - Water	33.9	Unspecified	Unspecified	
43	50 - Water	7.0	Unspecified	Unspecified	
48	50 - Water	4.5	Unspecified	Unspecified	
51	50 - Water	1.1	Unspecified	Unspecified	
53	50 - Water	1.4	Unspecified	Unspecified	
55	50 - Water	1.5	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
56	50 - Water	1.6	Unspecified	Unspecified	
59	50 - Water	1.3	Unspecified	Unspecified	
60	622 - Lowland Shrub	0.3	Unspecified	Unspecified	
61	6229 - Mixed lowland shrub	6.1	No	Unspecified	
62	50 - Water	1.8	Unspecified	Unspecified	
65	50 - Water	5.3	Unspecified	Unspecified	
66	6224 - Treed Bog	10.4	Unspecified	Unspecified	
70	50 - Water	19.2	Unspecified	Unspecified	