



**Newberry Forest Management Unit
Compartment Review Presentation
Compartment 24 Entry Year: 2012
Compartment Acreage: 1946 County: Luce**

Revision Date: 9/23/2010

Stand Examiner: Tori Irving

Legal Description: T49N R10W Sections 6-8, 17-20

Identified Planning Goals ('Management Area' or 'RMU', if applicable):

Deer Park Management Area

Management Goals:

Timber, wildlife, recreation, and fisheries 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 through proper management. Forest treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and Topography: The compartment is dominated by Rubicon. There are small pockets of Rubicon organic surface in the southern half of the compartment. Most of this compartment is flat with the exception of the southern end. There are some steep slopes surrounding Perch Lake.

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

Most of the compartment is state owned. There are private parcels surrounding Perch Lake inside the compartment boundary. Two parcels in the northern half of compartment between Seven Mile Fire Lane and Rabbit Patch Road occur along the compartment exterior. Land use activities in the area are timber production and recreation (hunting, fishing, ORV and snowmobile riding, dog sledding, skiing, hiking, berry picking, wildlife/nature viewing).

Unique, Natural Features:

Michigan Natural Features Inventory (MNFI) lists potential for alternate-leaved water-milfoil and loon in Perch Lake. Potential for goshawk, merlin, eagle, osprey, moose and wolf are also listed for the compartment.

Archeological, Historical, and Cultural Features:

CCC Camp Superior is located along Co Road 410.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations:

Good. Perch Lake contains northern pike, smallmouth bass, perch and stocked splake. Fisheries personnel several years ago bulldozed the sand dike separating Perch Lake from the large marsh to the northeast. We opened a water connection to give northern pike a natural area for spawning. At the time, Perch Lake was roughly 6 inches higher than the marsh, so we decided that the marsh would benefit as well as Perch Lake. Now, however, the dozed area is high and dry, as well as the boat launch in the southwest corner. The access site was recently dredged, and people can again launch with ease. Once water levels return to normal, we expect significant benefit to the lake fish community because of the water connection to the marsh.

Wildlife Habitat Considerations: Compartment 24 is located in northern Luce county and is in Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is heavily comprised of red and jack pine with a few aspen stands and some upland mixed forests surrounding a few small lakes.

Retaining species and structural diversity in harvested pine stands will benefit wildlife using pine systems. Birch and aspen trees will provide future soft snags and food sources for birds and having a mixture of different pine species will further increase diversity of the wildlife using the compartment. Species expected to occur in the compartment include black bear, white-tailed deer, coyote and marten.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Formation and the Precambrian Jacobsville Sandstone subcrop below the glacial drift. The Jacobsville has been used as a building stone in the past. There are no gravel pits in the area, and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

This compartment can be accessed by County Road 407 on the west, County Road 410E on the south and east, and Rabbit Patch Road on the north. Seven Mile Fire Lane runs east-west through the middle of the compartment. There are also numerous forest roads throughout the compartment that can be used to access almost every stand in compartment. During the winter, Rabbit Patch Road, County Road 410E (north of the private property access road), and Seven Mile Fire Lane are not plowed and are heavily used by snowmobile traffic and dog sledgers.

Survey Needs:

Private property lines will need to be confirmed in order for treatments to be completed.

Recreational Facilities and Opportunities:

Perch Lake State Forest Campground and Access Site are located on the southern end of the compartment. County Road 410 East is used by snowmobiles. The ORV trail goes through the northern half of the compartment from Seven Mile Fire Lane to the Rabbit Patch Road and County Road 410 East Junction.

Fire Protection: The Compartment is in the Two Hearted Zone Dispatch Area. The area has a moderate potential for large fire growth because of the mixed Pine types. The risk to private properties would be high because of the mixed Pine types.

Additional Compartment Information: None

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

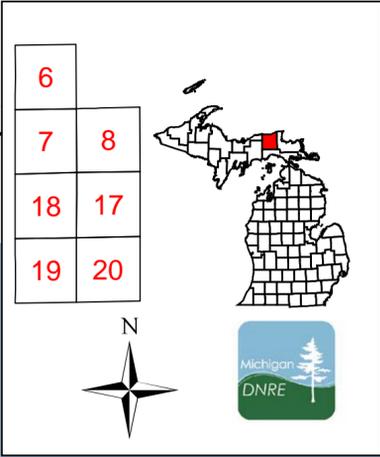
- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

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

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

Cover Type & Treatment Map

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



Compartment 024
 T49N, R10W, Sec. 6, 7, 8, 17, 18, 19, 20
 County: Luce
 Unit: Newberry
 YOE: 2012
 Acres: 1,946 GIS Calculated
 Stand Examiner: Tori Irving
 Map Revised: 11/1/2010
 Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners
- Cable
- Pipe
- Power
- Paved Roads
- Poor Dirt Roads
- Trails
- ORV Trails
- Motorcycle Trails
- Snowmobile Trails
- Hiking Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

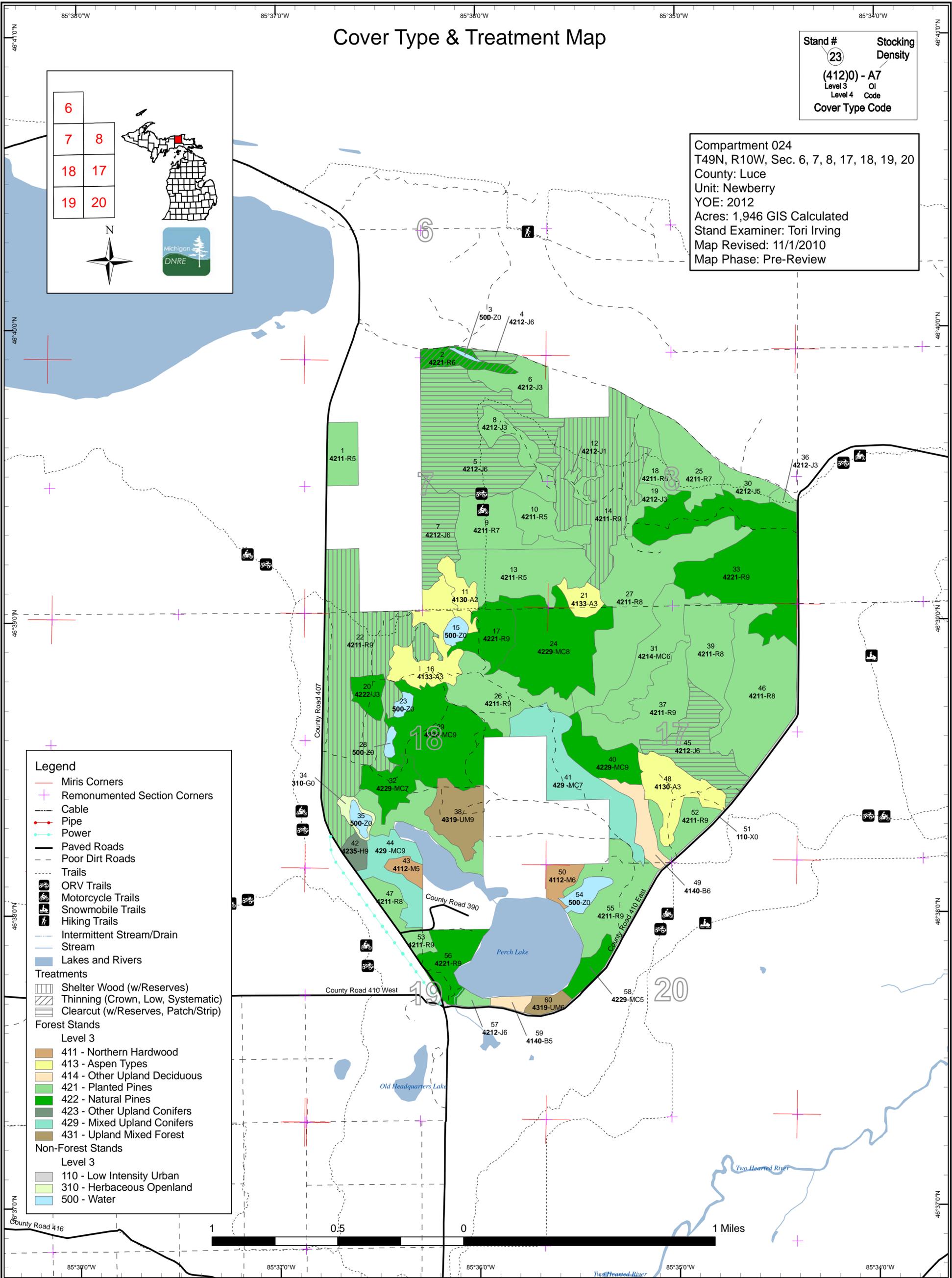
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest

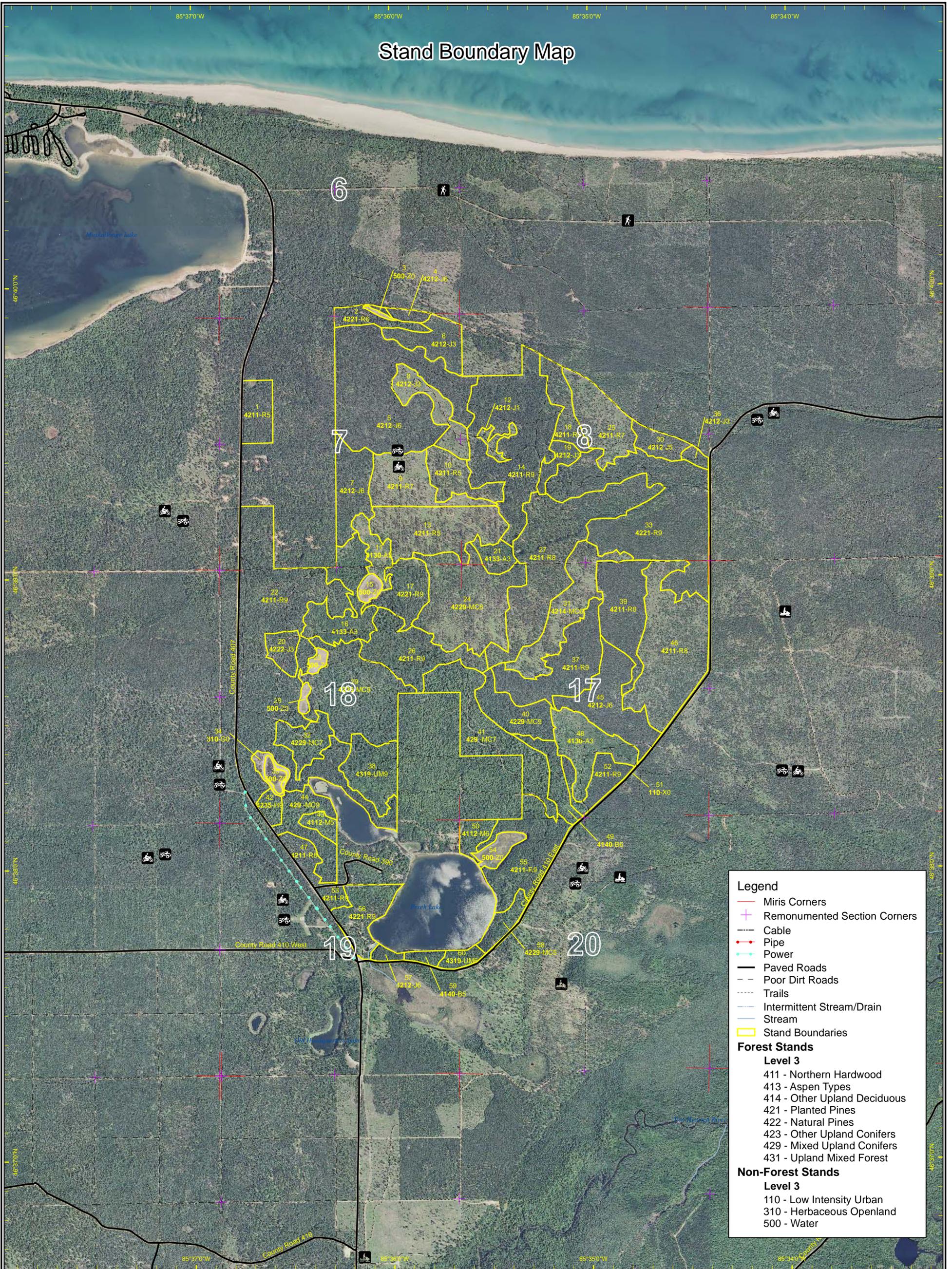
Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water



Stand Boundary Map



Legend

- Miris Corners
- + Remonumented Section Corners
- Cable
- Pipe
- Power
- Paved Roads
- - - Poor Dirt Roads
- ... Trails
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest

Non-Forest Stands

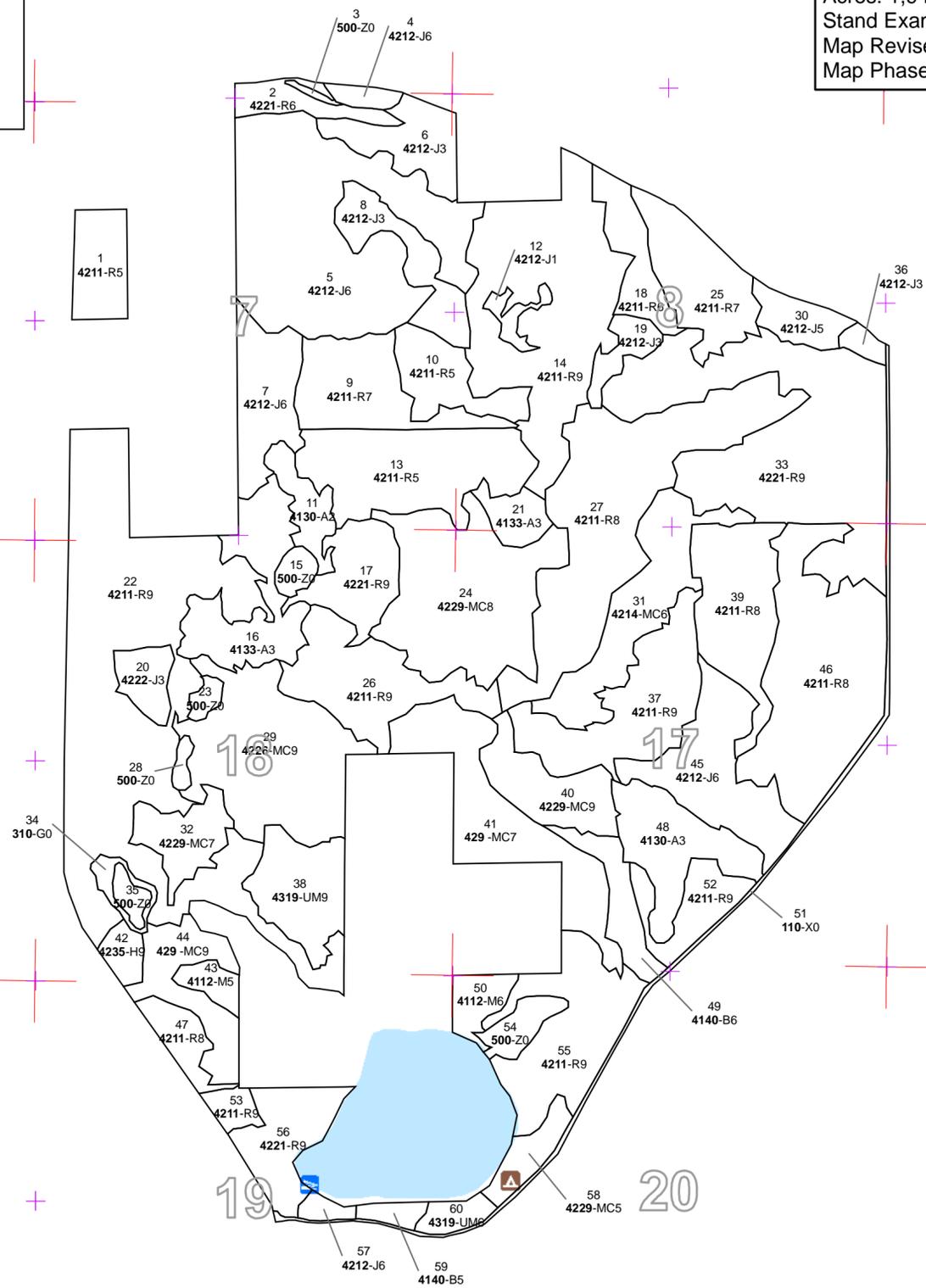
Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water

Dedicated & Proposed Special Conservation Area Map

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

Compartment 024
 T49N, R10W, Sec. 6, 7, 8, 17, 18, 19, 20
 County: Luce
 Unit: Newberry
 YOE: 2012
 Acres: 1,946 GIS Calculated
 Stand Examiner: Tori Irving
 Map Revised: 11/1/2010
 Map Phase: Pre-Review



Legend	
	Miris Corners
	Stand Boundaries
	Remonumented Section Corners
Proposed Special Conservation Areas	
	SCA - Special Conservation Area
	SCA Removal
Dedicated Special Conservation Areas	
	Cold Water Lakes
	Cold Water Streams
	Non_Dedicated Natural Areas and National Natural Landmarks
	Boat Access Sites
	Campgrounds
	Critical Coastal Habitat (Piping Plover)
	Natural Rivers Zoning District
	Natural Rivers Vegetative Buffer
Forest Stands	
Level 3	
411 - Northern Hardwood	
413 - Aspen Types	
414 - Other Upland Deciduous	
421 - Planted Pines	
422 - Natural Pines	
423 - Other Upland Conifers	
429 - Mixed Upland Conifers	
431 - Upland Mixed Forest	
Non-Forest Stands	
Level 3	
110 - Low Intensity Urban	
310 - Herbaceous Openland	
500 - Water	

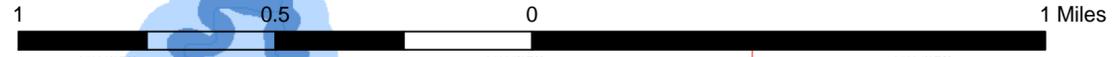


Table 1 – Total Acres by Cover Type and Age Class

Data updated yesterday after 6:00 PM



	Age Class														Total	
	Non-Forested	1-9	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	0	0	98	0	0	0	0	0	0	0	0	0	0	0	0	98
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Jack Pine	0	13	29	37	11	4	0	81	121	0	0	0	0	0	0	295
Natural Mixed Pines	0	0	0	0	0	0	0	78	12	0	120	0	0	0	0	210
Northern Hardwood	0	0	0	10	0	0	0	0	0	7	0	0	0	0	0	17
Paper Birch	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	21
Planted Mixed Pines	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	45
Red Pine	0	0	0	0	0	0	0	459	70	19	408	31	102	0	0	1090
Upland Conifers	0	0	0	0	0	0	0	0	0	27	0	0	0	55	0	82
Upland Mixed Forest	0	0	0	0	0	0	0	0	7	0	31	0	0	0	0	37
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	45	13	126	47	11	25	0	663	209	53	559	31	102	61	0	1946



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Newberry Mgt. Unit
Year of Entry 2012

Compartment 024
Total Compartment Acres: 1946

Acres by Treatment Type

Commercial Harvest - 469	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Jack Pine	202	0	0	0	0	0	202
Red Pine	0	0	0	254	13	0	267
Total	202	0	0	254	13	0	469

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2 42024002-Cut	12.8	42210 - Natural Red Pine	High Density Pole	84	Harvest	Low Thinning	Natural Red Pine	Cmpt. Review Proposal

Prescription Thin red pine to 70 BA where needed. Create gaps in the canopy to release crowns of suppressed trees and to increase the crown ratio. Remove all mature jack pine and any stems that impede maneuverability or regeneration of red pine.

Specs:

Other Comments:

Next Steps: Monitor for red pine/jack pine regeneration.

4 42024004-Cut	4.6	42120 - Planted Jack Pine	High Density Pole	68	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Remove all jack pine, red pine, and white birch. Leave aspen.

Specs:

Other Comments: Treat with stand stand 21 in compartment 23 (2011 YOE). There is a survey corner in the middle of the stand.

Next Steps: Scarify site after harvest is complete. Monitor for jack pine regeneration over the next three years. If natural regeneration fails, plant jack pine. An acceptable species mix includes: jack pine and a small component of red pine.

5 42024005-Cut	120.6	42120 - Planted Jack Pine	High Density Pole	71	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Remove all jack pine. Leave scattered retention pockets with red and white pine and white birch.

Specs:

Other Comments: Stand is adjacent to private property. Stand was planted in fall of 1941.

Next Steps: Scarify stand after harvest. Monitor for the success of regeneration the next three years. Check regeneration in three years. If natural regeneration fails, plant jack pine.

7 42024007-Cut	30.1	42120 - Planted Jack Pine	High Density Pole	63	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Remove all jack pine. Leave red and white pine in scattered retention pockets.

Specs:

Other Comments: Stand is adjacent or private property. There is a survey corner at the south east corner of the private property boundary.

Next Steps: Scarify site after harvest. Monitor for jack pine regeneration over the next three years. If natural regeneration fails, plant jack pine.

14 42024014-Cut	101.7	42110 - Planted Red Pine	High Density Log	68	Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal
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Prescription Thin red pine to 40-50 square feet and remove all jack pine.

Specs:

Other Comments:

Next Steps: Scarify site after harvest is complete. An acceptable species mix includes: red pine, jack pine, and a small component of white pine and mixed northern hardwoods.

22 42024022-Cut	152.7	42110 - Planted Red Pine	High Density Log	92	Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal
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Prescription Thin red pine to 40-50 BA, remove half of white pine volume and all of jack pine. Target residual BA range for white pine is 20-30 square feet.

Specs:

Other Comments:

Next Steps: Scarify after harvest is complete. Check regeneration in three years. An acceptable species mix includes: red pine, jack pine, and a small component of white pine and mixed northern hardwoods.

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Data updated yesterday after 6:00 PM

	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	42024045-Cut	46.2	42120 - Planted Jack Pine	High Density Pole	69	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal

Prescription Remove all jack pine from the stand. Leave pockets of red pine and white pine scattered throughout the stand.

Specs:

Other

Comments:

Next Scarify after harvest is complete. Check regeneration status in three years. If regeneration techniques fail, plant jack pine.

Steps: An acceptable species includes jack pine and a small component of red pine.

**Total Treatment
Acreage Proposed: 468.7**



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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

Data updated yesterday after 6:00 PM

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2012



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**



Data updated yesterday after 6:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Medium Density Pole	19.7	102	81-110	On the northern border of the stand there is a depression that may have some seasonal flooding. The stand has been thinned before. There are snags throughout the entire stand. It is surrounded by private property on three sides. A lot of dog activity throughout the entire stand. A lot of white pine regeneration in the understory.
2	42210 - Natural Red Pine	High Density Pole	12.8	84	111-140	<p>East end of the stand is more open in the canopy. There is a ridge that separates stand 3 and 4. On the edge of stand 4 there is a small jack pine area. Possibly thinned before. North side of stand is bordered by Rabbit Patch Road and bordered by private property on two sides. There is a good variety of size class present and there is a good amount of species diversity. There are some pockets of sapling sized jack pine scattered throughout the stand. The east end of the stand may be affected by seasonal flooding and causing poor volume production of present species (jack pine/red pine).</p> <p>Big Tooth Aspen, White Birch, and Red Maple are present in the canopy but not enough to account for a total percentage.</p>
4	42120 - Planted Jack Pine	High Density Pole	4.6	68	81-110	<p>The understory in this stand is sparse. Quite a few snags, counted 7-10 in one plot. The canopy closure is on the lower end of 75-100% There is a survey corner in this stand. There are quite a few blow downs in this stand.</p> <p>Other canopy species: White birch, big tooth aspen</p>
5	42120 - Planted Jack Pine	High Density Pole	120.6	71		<p>There is some white birch present in the stand but they are not quite tall enough to be fully classed as canopy trees. ATV trail runs through the stand.</p> <p>Trees were planted in Fall of 1941.</p>
6	42120 - Planted Jack Pine	High Density Sapling	23.6	26		<p>This is a two-aged stand. All jack pine was removed and residual log-sized red pine was left. Now the stand consists of approximately 30 BA of supercanopy red pine with dense sapling sized jack pine underneath.</p> <p>Sale: 10-82 Cut in the Fall of 1983. All jack pine, birch and marked red pine were removed. FTP: 42-146 (26 acres) Completed in June 1984</p>
7	42120 - Planted Jack Pine	High Density Pole	30.1	63		<p>In the north half of the stand, the JP has a bigger average diameter and the density is a little thicker. There is an E/W ridge running through the middle of the stand. Some of the WP is large and is close to a supercanopy class. The understory is really open due to the thick canopy cover. This stand is next to an old cutting.</p> <p>There is some Bigtooth Aspen in the canopy but not enough to account for any type of percentage.</p> <p>Stand was planted in the fall of 1941.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	42120 - Planted Jack Pine	High Density Sapling	23.6	12		<p>Saplings are about 5 feet tall. There are some tall supercanopy red pine scattered throughout. JP is coming back fairly thick.</p> <p>Sale: 33-92, 43 acres FTP: 42-412 Cut during the Fall/Winter of 1996/1997 Scarified: 1998</p>
9	42110 - Planted Red Pine	Low Density Log	37.1	69	1-50	<p>Stand was planted in the fall of 1941 and harvested in 2002-2004 as the Mixed Fireland Pine (See the notes below). There are large log sized residual Red Pine in the canopy with a mix of pine and maple blanketing in the understory,</p> <p>ATV trail runs through the stand.</p> <p>Sale # 020-02-1 Mixed Firelane Pine North unit of sale was cut 10/2002 and scarified 7/2004 (FTP 42-575) Remainder of stand cut in 12/2005 and scarified under same FTP on 11/8/2006.</p> <p>Regeneration count completed 5/8/2006 = 223 t/ac (80 J, 111 A, 16 RM, 15 Beech) Continue to monitor for success. Secondary count 5/31/2008 (Unit 1) = 176 t/ac (66 J, 22 RP, 88 W) Seedlings are now 1-2' high</p>
10	42110 - Planted Red Pine	Medium Density Pole	23.1	69	51-80	<p>Currently, there are large residual RP in the overstory and small shrub sized JP in the understory. Didn't see any RP regeneration.</p> <p>Original Stand Planted in the Fall 1941 Sale # 020-02-1 Mixed Firelane Pine North unit of sale was cut 10/2002 and scarified 7/2004 (FTP 42-575) Remainder of stand cut in 12/2005 and scarified under same FTP on 11/8/2006.</p> <p>Regeneration count completed 5/8/2006 = 223 t/ac (80 J, 111 A, 16 RM, 15 Beech) Continue to monitor for success. Secondary count 5/31/2008 (Unit 1) = 176 t/ac (66 J, 22 RP, 88 W) Seedlings are now 1-2' high</p>
11	4130 - Aspen	Medium Density	13.2	13		<p>There are two age classes in this stand, large supercanopy red pine and sapling sized aspen underneath. There are some small gaps in the aspen regeneration scattered through out the stand.</p> <p>There are a few white spruce scattered in the canopy but not enough to account for any significant percentage. Stand was cut in 1997 as Sale # 12-86</p>
12	42120 - Planted Jack Pine	Low Density Sapling	5.2	12		<p>This stand is an open pocket in the middle of stand 15. The structure is similar to stand 9. The ATV trail touches the east side of the stand.</p> <p>Sale #33-92 Cut in the Fall/Winter 1996/1997, respectively FTP 42-412 Scarified 4/1998</p>
13	42110 - Planted Red Pine	Medium Density Pole	58.2	69	1-50	<p>This stand was recently thinned. Some of the residual red pine is thicker in some areas. The northern part of the stand is more open. The ORV trail runs through part of the stand.</p>



Data updated yesterday after 6:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	42110 - Planted Red Pine	High Density Log	101.7	68	111-140	There are tall red pine scattered throughout the northern part of the stand. There is also more jack pine density in the northern part of the stand. The ORV trail runs through this stand. White birch, big tooth aspen, and white pine are also in the canopy.
16	4133 - Aspen, Mixed Pine	High Density Sapling	39.2	15		Not quite a pure aspen stand, there is some supercanopy red pine over the aspen.
17	42210 - Natural Red Pine	High Density Log	25.5	93	51-80	Thinned red pine logs utility pole sale #23-88, August 1988
18	42110 - Planted Red Pine	High Density Pole	19.6	68		Can still see the red lines from the last cut. Not a lot present in the understory. The ORV trail runs through the stand. Other canopy species include jack pine and white birch. Sale # 028-02-01, Rabbit Patch Mix Complete 5/2003
19	42120 - Planted Jack Pine	High Density Sapling	9.4	26		Cut as part of sale # 48-83 (cut in Fall 1983) Spp cut: jack pine, aspen, birch, spruce, fir and marked red pine. FTP 42-158
20	42220 - Natural Jack Pine	High Density Sapling	11.3	33		Sale # 10-74A FTP # 42-128
21	4133 - Aspen, Mixed Pine	High Density Sapling	10.2	17	1-50	Cut as part of sale #45-92 cut in the spring/summer of 1993
22	42110 - Planted Red Pine	High Density Log	182.3	92	81-110	In the northern part of the stand along CO Rd 407 there is a small patch of scotch pine. There are a few white birch snags scattered throughout the stand. Other canopy species include: White birch, Bigtooth aspen.
24	42290 - Natural Mixed Pine	Medium Density Log	78.0	69	1-50	Cut as part of the Mixed Firelane Pine Sale # 020-02-01 Completed 4/24/06 Previously cut as part of sale # 45-92
25	42110 - Planted Red Pine	Low Density Log	35.9	69		Recently cut, looks like a final harvest. Stand has good jack pine regeneration. There is some WP/JP that is almost intermediate canopy but not quite tall enough to be classified as a canopy species. The ORV trail runs through this stand. Part of the Rabbit Patch Mix Sale #028-02-01 Completed 5/2003
26	42110 - Planted Red Pine	High Density Log	45.4	93	81-110	Thinned red pine cabin logs and utility poles in sale #23-88, August 1988
27	42110 - Planted Red Pine	Medium Density Log	102.5	110	1-50	Cut as part of Enchanted Forest Pine Sale # 031-02-01 Completed 8/27/2003



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	42260 - Natural Pine, Mixed Deciduous	High Density Log	73.9	99		Beech is affected by scale and is close to dying. Will create good snags for wildlife. Stand was cut as part of sale #57-84 (cut in 1990) and sale #13-92 (cut in 1992)
30	42120 - Planted Jack Pine	Medium Density Pole	12.7	7	51-80	There are small jack pine pockets throughout the stand. There are some sap sized trees in the middle of the stand. The ORV trail is present in the south end of the stand. This is a two aged stand (first age is the JP, second age is the RP), with large residual red pine with sap and pole sized jack pine underneath. The residual red pine was planted in 1946 and the jack pine started in 2003 after the Rabbit Patch Mix sale. Sale #028-03-01 Rabbit Patch Mix, completed 6/2003
31	42140 - Planted Mixed Pine	High Density Pole	44.9	69	51-80	Red pine plantation planted in the fall of 1941. Sale # 019-02-01 7 Mile Fingers, completed 12/01/05
32	42290 - Natural Mixed Pine	Low Density Log	19.5	90		
33	42210 - Natural Red Pine	High Density Log	127.7	93	51-80	
36	42120 - Planted Jack Pine	High Density Sapling	3.9	28		Possibly cut with C23 or C25, no records found. There are a few log sized red pine in the canopy but not enough to account for a percent cover.
37	42110 - Planted Red Pine	High Density Log	50.8	72	81-110	There is a hemlock component throughout the stand, especially in the southern part. There is some evidence of fire throughout the stand. Other canopy species include: White birch, hemlock and bigtooth aspen.
38	4319 - Mixed Upland Forest	High Density Log	30.5	98		Stand was cut as part of sale # 57-84 and was cut in 1990. Super canopy species are conifers and deciduous trees make up the canopy and intermediate canopy.
39	42110 - Planted Red Pine	Medium Density Log	44.0	69	1-50	Planted in the fall of 1941: 2-0 jack pine, red pine and 3-0 white pine Part of stand was cut with the 7 mile Fingers Sale # 019-02-01
40	42290 - Natural Mixed Pine	High Density Log	26.9	92		Saw three grouse in this stand. There is a lot of cover for WL in the area because of the thick understory. There is a blanket of balsam fir in the understory. There is a lot of size class variation and a good amount of species diversity. Canopy cover is on the lower side of 75%. Other canopy species include Bigtooth aspen and white birch.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	429 - Mixed Upland Conifers	Low Density Log	54.6	130		The understory is really thick. Canopy is made up of large trees. It was previously cut, there was some remaining red line.
42	42350 - Upland Hemlock	High Density Log	6.8	130		This stand has a diverse understory with a lot of old and large hemlock in the canopy. There is also quite a bit of hemlock regeneration in the understory. There are also a lot of snags scattered throughout the stand. There is a lot of variation in the heights and DBHs.
43	4112 - Maple, Beech, Cherry Association	Medium Density Pole	6.9	80		Stand has been hit hard by beech scale. Quite a few beech with more to come due to the high amount of beech mortality. Pretty poor quality red maple.
44	429 - Mixed Upland Conifers	High Density Log	27.0	89	81-110	On the western edge of the stand, there are large hemlock trees. The stand has quite a few snags for wildlife and is fairly diverse. There is quite a range of structural diversity.
45	42120 - Planted Jack Pine	High Density Pole	46.2	69		Other canopy species include white birch and red maple.
46	42110 - Planted Red Pine	Medium Density Log	88.6	69	51-80	Sale # 33-84 Jack pine removed and marked RP Scarified 42-193
47	42110 - Planted Red Pine	Medium Density Log	11.8	106	81-110	Part of Perch Lake Pine Sale #33-02-01 Sale completed in 06/23/05
48	4130 - Aspen	High Density Sapling	35.0	18		Cut as sale # 22-92 in 7/1992
49	4140 - Other Upland Deciduous	High Density Pole	16.3	49	1-50	Ridge separates this stand from the adjacent stand. Other canopy species include JP and WS
50	4112 - Maple, Beech, Cherry Association	High Density Pole	10.1	25	1-50	The private line along shelter bay land was cut in 2001. This sale was cut in 1985-1986 as part of sale # 27-85. All aspen, birch plus hardwoods 16"+ were cut.
52	42110 - Planted Red Pine	High Density Log	19.0	70	51-80	Stand was planted in 1940.
53	42110 - Planted Red Pine	High Density Log	6.0	89	81-110	
55	42110 - Planted Red Pine	High Density Log	50.9	69	81-110	
56	42210 - Natural Red Pine	High Density Log	27.4	93	81-110	This stand includes the Perch Lake Campground. Some areas of the Red Pine are thicker within the campground.

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Newberry Mgt. Unit

5 – Forested Stands

Data updated yesterday after 6:00 PM

Compartment: 024
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42120 - Planted Jack Pine	High Density Pole	3.8	40		Jack pine plantation that borders Perch Lake. Spacing is pretty tight in some areas. There are some taller spruce and pine on the lake side of the stand. The lake side of the stand is very steep and unmanagable. Stand was planted in Fall 1970
58	42290 - Natural Mixed Pine	Medium Density Pole	11.7	74	1-50	Has a small pocket of jack pine in the southern edge of the stand. Some large super canopy, log sized red pine in the overstory. Heavier conifer component in this stand. There is a lot of oak regeneration in the understory. Beech is affected by scale.
59	4140 - Other Upland Deciduous	Medium Density Pole	4.7	47	1-50	Beech is heavily affected by scale. Most of the red pine is super canopy and the understory is quite thick. There are some snags throughout the stand that would be good for wildlife. With all the dying beech, the amount of snags will increase. The canopy closure is on the higher end of the 50-75 range.
60	4319 - Mixed Upland Forest	High Density Pole	6.9	74	1-50	There is a lot of regeneration in this stand. Was thinned before as part of sale# 19-85



Stand	Cover Type	Acres	Gen Cmts:
3	50 - Water	1.1	
15	50 - Water	5.1	
23	50 - Water	3.3	
28	50 - Water	2.6	
34	310 - Herbaceous Openland	4.8	There is evendence of seasonal flooding in this stand. There are a lot of dead jack pine stumps throughout the stand. It also provides a natural buffer for the pond.
35	50 - Water	4.4	
51	11 - Low Intensity Urban	13.7	
54	50 - Water	9.5	



7 – 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.

Data updated yesterday after 6:00 PM

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Data updated yesterday after 6:00 PM

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.