



**Newberry Forest Management Unit  
Compartment Review Presentation**  
**Compartment #42041                      Entry Year: 2013**  
**Compartment Acreage: 1,559                      County: Luce**

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**Revision Date:** September 1, 2011

**Stand Examiner:** Tori Irving

**Legal Description:** T49N, R9W, Sect. 13, 14, 23-25, 27

**RMU (if applicable):** Deer Park Management Area

**Management Goals:** Vegetative management for the Deer Park Management Area will emphasize balancing the age classes of jack pine and red pine, and provide various timber products. Management will maintain or enhance wildlife habitat.

**Soil and Topography:** About half of the compartment is Rubicon-Spot complex. Other types include: Rubicon sand, Carbondale, Lupton, and Tawas soils; Dawson, Greenwood, and Loxley soils; Rousseau-Spot complex, Spot-Dawson complex, Spot-Dawson peats, Paquin-Finch sands, Crosswell-Spot complex, and Wallace sand.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The main portion of this compartment is a large block of state land. There are three outlying parcels that are surrounded by private land. Some of the private parcels have seasonal cabins and posted no trespassing signs. There are many opportunities for recreation, including, but not limited to, hunting, ORV, snowmobiling, hiking, fishing, and berry-picking, within and surrounding the compartment. Much of the surrounding land is also state-owned, which provides additional opportunities for timber harvests.

**Unique, Natural Features:** Michigan Natural Features Inventory (MNFI) notes the occurrence of Dry Northern Forest, Bog, Dry-mesic northern forest, muskeg, intermittent wetland. Potential for English sundew, northern prostrate clubmoss, small yellow pond lily, lake cress, alternate-leaved water-milfoil, American shore-grass, moor rush, Hill's pondweed, and panicked screw-stem along shorelines, bogs and marshes. Potential for goshawk, osprey, eagle, and great blue heron rookery. Potential for Blanding's turtle. Potential for incurvate emerald, ebony boghaunter, Frigga fritillary and Freija fritillary in bogs

**Archeological, Historical, and Cultural Features:** None listed.

**Special Management Designations or Considerations:** Special consideration should be given to the Dry Northern Forest in the northern part of the compartment. This natural community was last observed by the MNFI on 7/16/2010.

**Watershed and Fisheries Considerations:**

Fisheries Values: Excellent

*Fisheries Concerns:* The Little Two-hearted River has an excellent native brook trout population and receives a run of steelhead in the spring. Being a coldwater stream with excellent fisheries values, a 200' buffer should be maintained adjacent to the river, consistent with BMP's. If crossing the river for access, bank erosion should be kept minimal to none. The sand load in the river has increased and cannot withstand additional loads.

**Wildlife Habitat Considerations:** Compartment 41 lies in north eastern Luce county in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. It lies in the swamp lakes complex with numerous bogs and small lakes with forested ridges extending between the water bodies. The compartment is transitional between the pine dominated country to the north and the hardwood lands to the south, thus the species composition of the compartment and individual stands is quite high. The compartment is varied with a mixture of red, white and jack pine types, mixed conifer, lowland mixed, hemlock, treed bogs, upland mixed types, lowland conifer and aspen.

Red crossbills (featured species) will benefit from scattered red and white pine left in harvested stands. Retention pockets left in harvested stands will contain as much species diversity as exists in the stand to benefit a suite of wildlife species and provide den and nest sites, foraging sites and resting trees. Marten (featured species) will benefit from scattered trees as resting sites and from coarse woody debris that results as retained trees fall over and provide small mammal habitat and marten hunting sites.

**Mineral Resource and Development Concerns and/or Restrictions:** Luce County 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. Gravel pits are located three miles to the southeast, but potential appears to be limited. There is no economic oil and gas production in the UP.

**Vehicle Access:** The compartment can be accessed by County Road 500, Country Road 414, Swamp Lakes Road, and Culhane Grade.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** The North Country Trail runs through the middle of the compartment.

**Fire Protection:** The compartment is part of the Two Hearted Zone Dispatch Area. The potential for large fire growth is good. The mixture of upland and lowland types will challenge suppression activities.

**Additional Compartment Information:**

- **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**
  
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# Cover Type & Treatment Map

Compartment 041  
 T49N, R09W, Sec. 13, 14, 23 - 25, 27  
 County: Luce  
 Unit: Newberry  
 YOE: 2013  
 Acres: 1,559 GIS Calculated  
 Stand Examiner: Tori Irving, Jason Darling  
 Map Revised: 10/31/2011  
 Map Phase: Pre-Review

14	13
23	24
27	25



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

### Legend

- Miris Corners
- Remonumented Section Corners
- Campgrounds
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Ski Trail
- Hiking Trail
- ORV Trail
- ORV Route
- Stream
- Intermittent Stream
- Lakes and Rivers
- Seed Tree (w/Reserves)

### Forest Stands

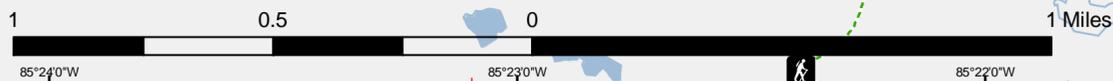
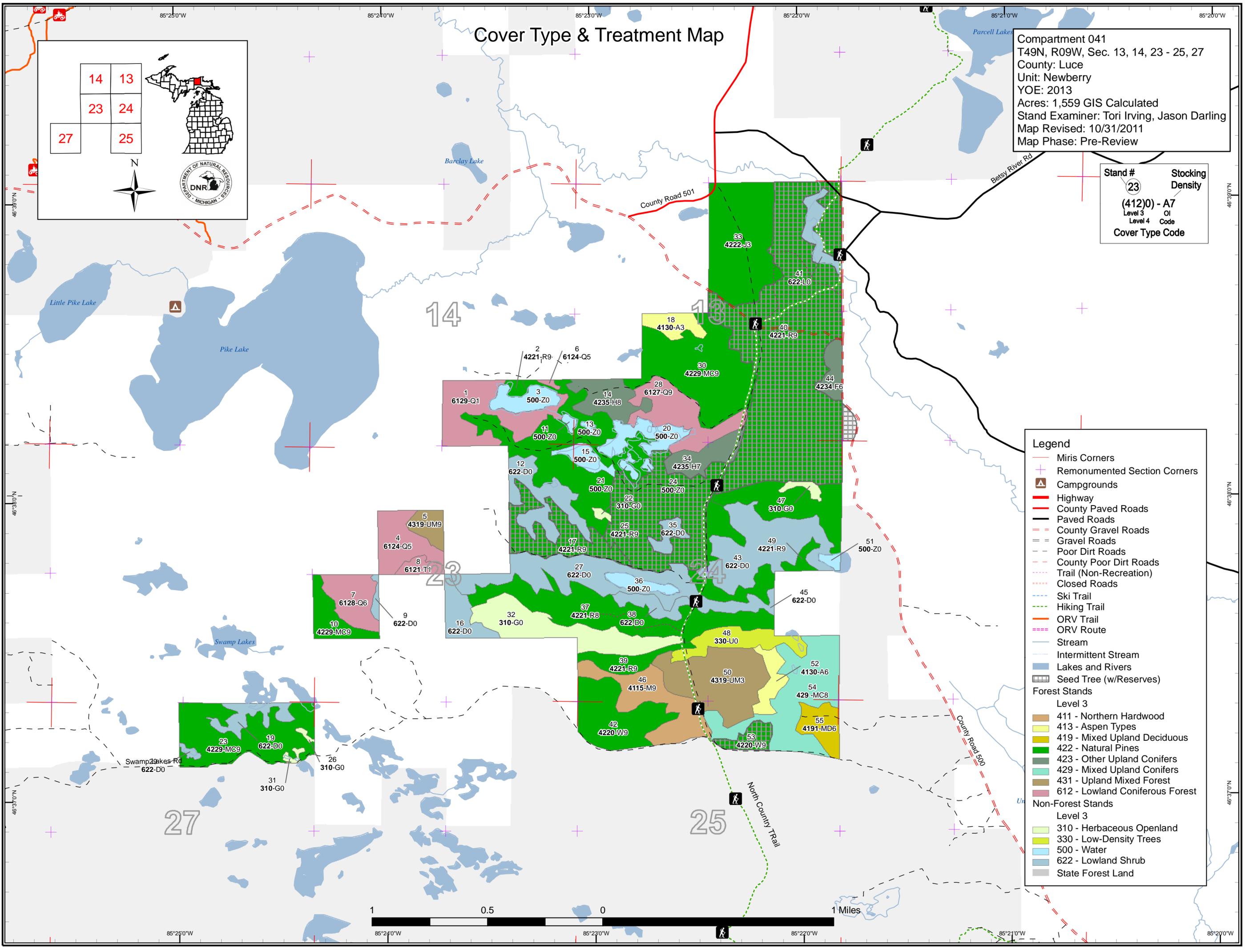
Level 3

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

### Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- State Forest Land



85°25'0"W 85°24'0"W 85°23'0"W 85°22'0"W 85°21'0"W

46°38'0"N 46°37'0"N 46°36'0"N 46°35'0"N 46°34'0"N

85°25'0"W 85°24'0"W 85°23'0"W 85°22'0"W 85°21'0"W

# Stand Boundary Map

Compartment 041  
 T49N, R09W, Sec. 13, 14, 23 - 25, 27  
 County: Luce  
 Unit: Newberry  
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14	13
23	24
27	25

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

**Legend**

- Miris Corners
- Remonumented Section Corners
- Campgrounds
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Ski Trail
- Hiking Trail
- ORV Trail
- ORV Route
- Stream
- Intermittent Stream
- Stand Boundaries

**Forest Stands**

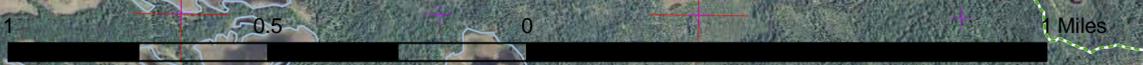
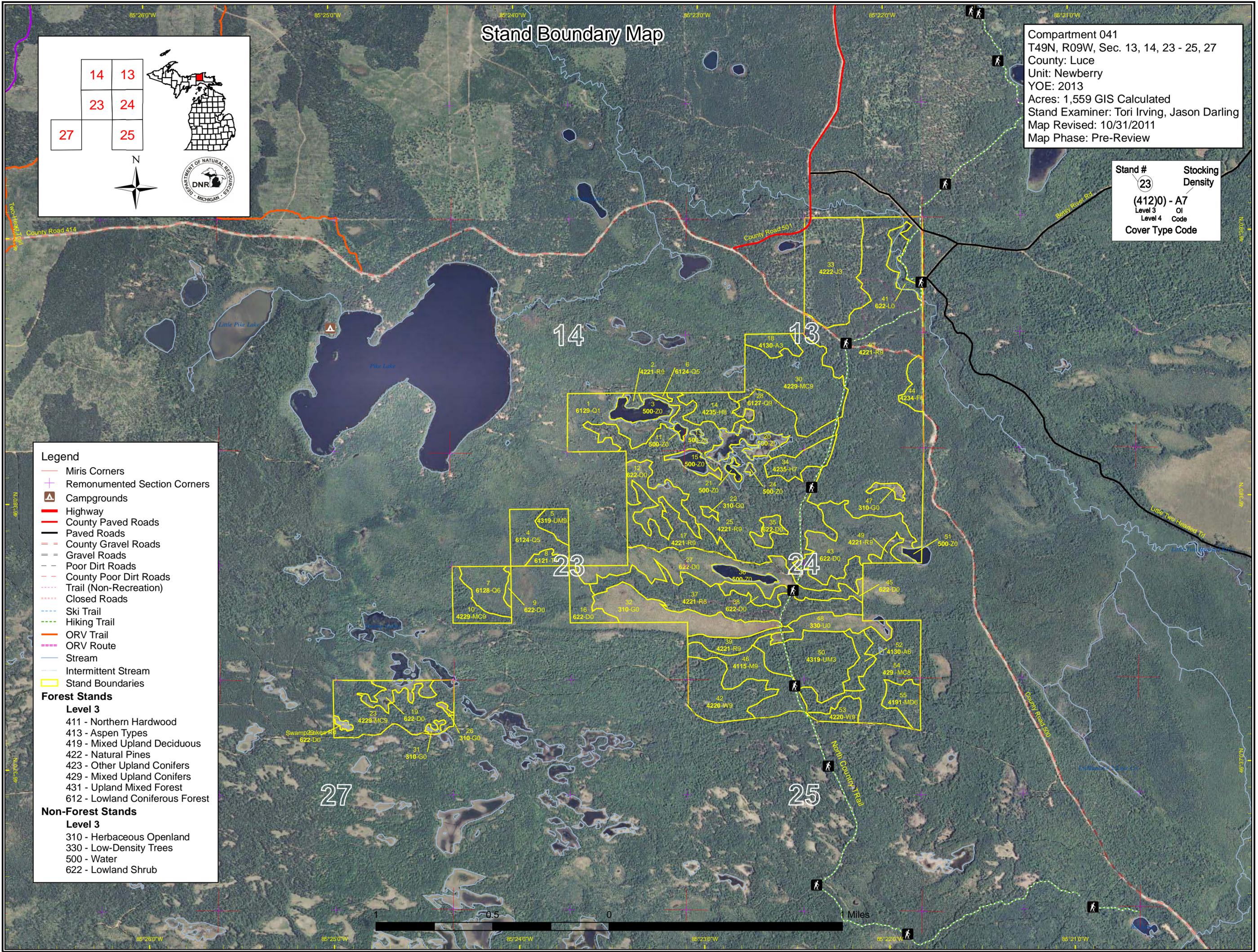
**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
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**Non-Forest Stands**

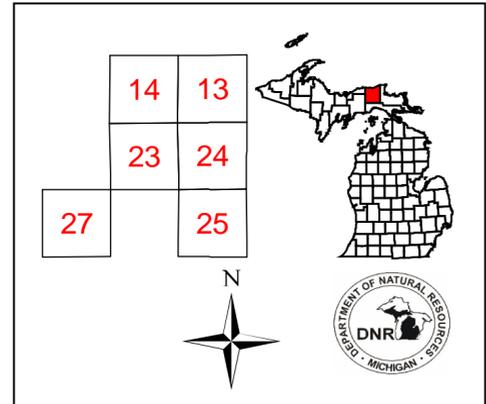
**Level 3**

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



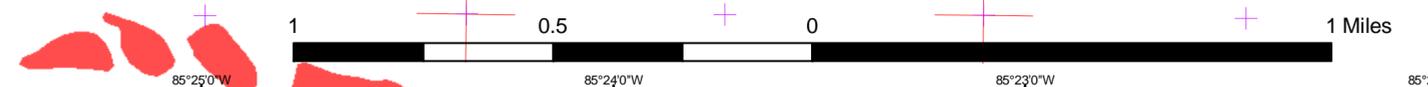
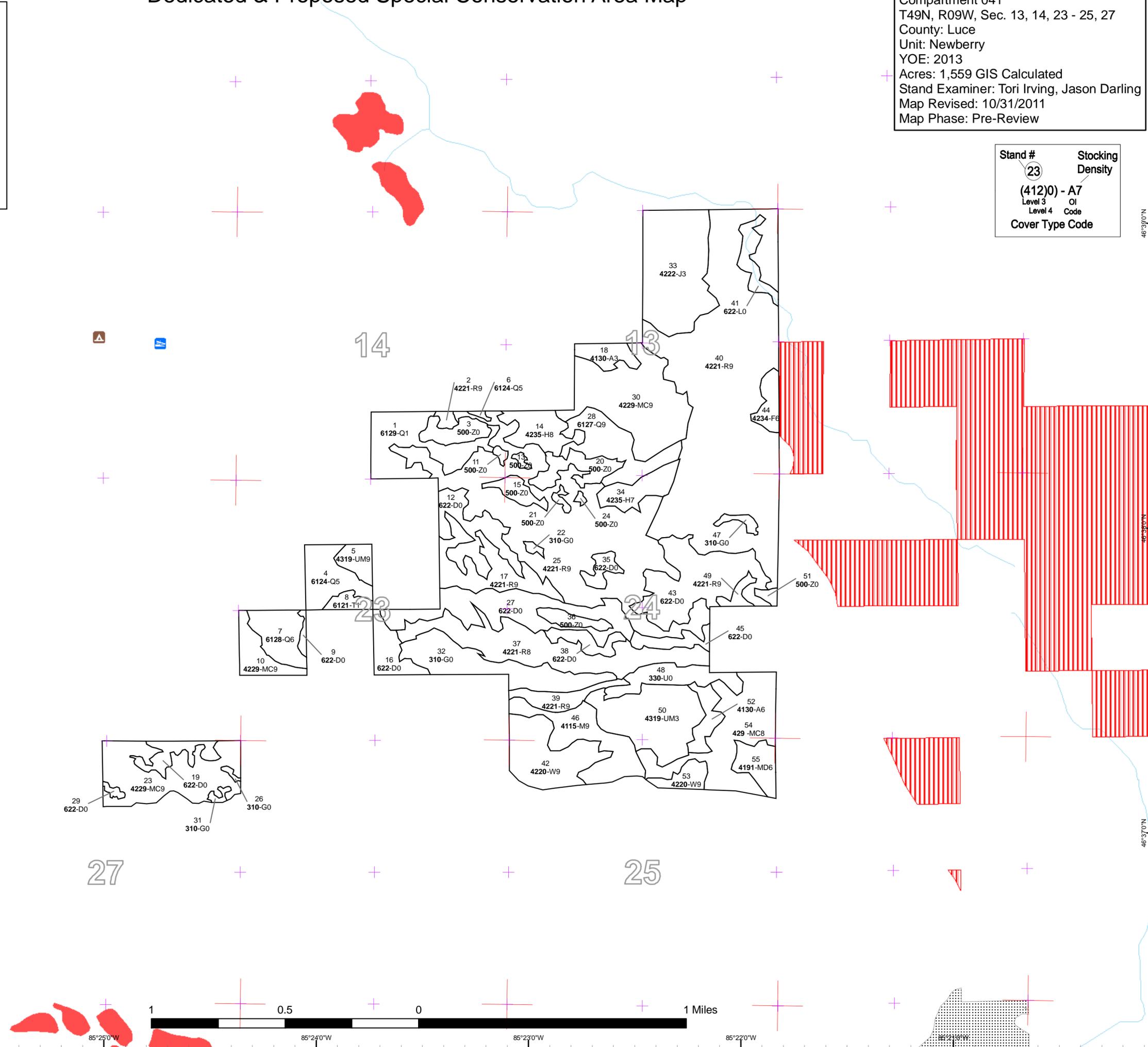
# Dedicated & Proposed Special Conservation Area Map

Compartment 041  
 T49N, R09W, Sec. 13, 14, 23 - 25, 27  
 County: Luce  
 Unit: Newberry  
 YOE: 2013  
 Acres: 1,559 GIS Calculated  
 Stand Examiner: Tori Irving, Jason Darling  
 Map Revised: 10/31/2011  
 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
  - Stand Boundaries
  - Proposed Special Conservation Areas**
  - ▨ SCA - Special Conservation Area
  - ▩ SCA Removal
  - Dedicated Special Conservation Areas**
  - Ecological Reference Areas
  - ⚓ Boat Access Sites
  - ⚠ Campgrounds
  - ▤ Visual Management Areas
  - Cold Water Streams
  - Forest Stands**
  - Level 3**
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
  - 612 - Lowland Coniferous Forest
  - Non-Forest Stands**
  - Level 3**
  - 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub



46°30'0"N  
46°30'0"N  
46°30'0"N  
46°30'0"N  
46°30'0"N

85°26'0"W  
85°25'0"W  
85°24'0"W  
85°23'0"W  
85°22'0"W  
85°21'0"W

**Table 1 – Total Acres by Cover Type and Age Class**



	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 +		Unretn Age
Aspen	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Hemlock	0	0	0	0	0	0	0	0	0	0	0	20	0	17	0	38
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Jack Pine	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	71
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	0	0	41	1	0	0	0	0	0	0	0	80	0	121
Lowland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	16	58	73	0	147
Northern Hardwood	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	38
Red Pine	0	0	0	0	0	0	0	0	0	0	3	86	33	456	0	579
Tamarack	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Treed Bog	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
Upland Conifers	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	60
Upland Mixed Forest	0	0	0	54	0	0	0	0	0	0	0	0	10	0	0	63
Upland Spruce/Fir	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Water	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
White Pine	0	0	0	0	0	0	0	0	0	0	9	0	42	0	0	51
<b>Total</b>	<b>338</b>	<b>0</b>	<b>0</b>	<b>162</b>	<b>51</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>38</b>	<b>60</b>	<b>12</b>	<b>123</b>	<b>143</b>	<b>626</b>	<b>0</b>	<b>1559</b>



## Table 2 – Proposed Treatment Summaries

**Newberry Mgt. Unit**  
**Year of Entry 2013**

**Compartment 041**  
**Total Compartment Acres: 1559**

### Acres by Treatment Type

Commercial Harvest - 362	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

		<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>Red Pine</b>		0	0	352	0	0	0	352
<b>White Pine</b>		0	0	9	0	0	0	9
<b>Total</b>		0	0	362	0	0	0	362

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17 42041017 Pine-Cut	33.3	42210 - Natural Red Pine	High Density Log	110	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Seed Tree: remove red pine to a target residual BA of 10-20.

Specs:

Other Protect advanced regeneration during harvest.

Comments:

Next Acceptable regeneration mix of red pine with a small component of white pine. If regeneration fails hand plant with red pine.

Steps:

25 42041025 Cut	82.4	42210 - Natural Red Pine	High Density Log	128	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Harvest red pine. Residual BA target 20-30. Per FSH: Set a minimum 50' to tree length buffer around the small ponds to the north of the

Specs: treatment boundary.

Other

Comments:

Next Herbicide to reduce RM competition. Fall application of a broadleaf herbicide to protect any advanced conifer regeneration and spring ephemerals.

Steps: Acceptable regeneration is mixed red and white pine.

40 42041040 Pine-Cut	236.8	42210 - Natural Red Pine	High Density Log	125	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Harvest site to imitate a catastrophic crown fire by "clear-cutting all but a patchy mosaic of pine trees and clumps of trees to serve as seed trees"

Specs: (MNFI). Focus on the removal of the trees in the 8-18 inch DBH class. Residual BA 20-30 to allow for successful pine regeneration. Leave some of the patchy mosaics of residual trees on the steep north-facing slopes. Per FSH: Observe the 200' buffer along the Two-Hearted River.

Other This stand is identified by MNFI as a Dry Northern Forest. Move some of the Hemlock and Yellow Birch logs into stand 34 for Hemlock

Comments: regeneration nurse logs.

Next Burn the harvested area in the spring to reduce slash, hardwood competition, and to expose the mineral soil. This should be done within 2-3

Steps: years after the completion of any harvesting activities. If the site is not burned within the time frame, scarify site to promote pine regeneration. If scarification fails, plant red pine. Acceptable regeneration mix is RP and a small component of WP.

53 42041053 W. Pine-Cut	9.4	42200 - Natural White Pine	High Density Log	92	Harvest	Seed Tree with Reserves	42200 - Natural White Pine	Cmpt. Review Proposal
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Prescription Cut WP and merchantable Red Maple. Target BA of 10-20.

Specs:

Other

Comments:

Next Acceptable regeneration is a mix of WP, Balsam Fir, and Red Maple.

Steps:

**Total Treatment  
Acreage Proposed: 361.8**

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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

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**Total Treatment**  
**Acreage Proposed: 0**

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

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42045001-Cut	3.9	42210 - Natural Red Pine	High Density Log	89	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription: Harvest site to imitate a catastrophic crown fire by "clear-cutting all but a patchy mosaic of pine trees and clumps of trees to serve as seed trees" (MNFI). Focus on the 8-18 inch DBH class. Residual BA 10-20 to allow for successful pine regeneration.

Other Comments: This stand is identified by MNFI as a Dry Northern Forest. Move some of the Hemlock and Yellow Birch logs into stand 34 for Hemlock regeneration nurse logs.

Next Steps: Burn the harvested area in the spring to reduce slash, hardwood competition, and to expose the mineral soil. This should be done within 2-3 years after the completion of any harvesting activities. If the site is not burned within the time frame, scarify site to promote pine regeneration. If scarification fails, plant red pine. Acceptable regeneration mix is RP and a small component of WP.

**Total Treatment  
Acreage Proposed: 3.9**

Stand	Newberry Mgt. Unit		5 – Forested Stands			Compartment: 041	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	6129 - Mixed Coniferous Lowland Forest	Low Density Sapling	40.8	30			Mostly forested bog. Scattered tamarack and cedar. Stand has some open pockets. Some red pine along the edges of the stand.
2	42210 - Natural Red Pine	High Density Log	2.7	94	51-80		Canopy closure is at the low end of 75%. There is some white pine regeneration started. The red pine is tall and bushy.
4	6124 - Lowland Spruce-Fir	Medium Density Pole	24.2	147			
5	4319 - Mixed Upland Forest	High Density Log	9.5	111			
6	6124 - Lowland Spruce-Fir	Medium Density Pole	1.0	40	1-50		
7	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	21.4	122			
8	6121 - Tamarack	Low Density Sapling	5.9	50			
10	42290 - Natural Mixed Pine	High Density Log	15.8	101	81-110		Stand was cut as part of sale# 48-79.
14	42350 - Upland Hemlock	Medium Density Log	20.4	100	51-80		Hemlock is big and old. Some have a DBH of more than 20 inches. There is some good hemlock regeneration in some areas. This stand was harvested as part of Sale # 23-93-1.
17	42210 - Natural Red Pine	High Density Log	33.3	110	81-110		Very little red pine regeneration in the understory. Stand was thinned as Culhane Grade Pine, sale #42-03-01. Completed 7/31/2007.  Summer 2011 Regen Check: RP 239 t/ac, WP 16 t/ac, RM 223 t/ac, Hen 58 t/ac, WS 6 t/ac.
18	4130 - Aspen	High Density Sapling	11.1	28			Cut as part of sale # 21-83-01. Thick aspen stand.
23	42290 - Natural Mixed Pine	High Density Log	58.2	111	81-110		Rolling topography throughout the stand with scattered lowland pockets.
25	42210 - Natural Red Pine	High Density Log	183.4	128	81-110		This stand was thinned as part of the Culhane Grade Sale # 42-03-01, Sale completed 7/31/07. Understory is covered with red maple seedlings/saplings. Very little red pine regeneration.  Summer 2011 Regen Check: RP 239 t/ac, WP 16 t/ac, RM 223 t/ac, Hen 58 t/ac, WS 6 t/ac.
28	6127 - Lowland Pine	High Density Log	34.0	121	81-110		JP/RP/WP ridges. Scattered lowland leatherleaf pockets. Some areas are boggy and some have standing water.



Stand	Newberry Mgt. Unit			5 – Forested Stands		Compartment: 041	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
30	42290 - Natural Mixed Pine	High Density Log	72.7	121	81-110		There are some lowland leatherleaf pockets scattered through the stand.
33	42220 - Natural Jack Pine	High Density Sapling	70.8	26			
34	42350 - Upland Hemlock	Low Density Log	17.2	120	1-50		The understory of this stand is loaded with red maple regeneration.
37	42210 - Natural Red Pine	Medium Density Log	68.7	104	51-80		Stand was harvested as part of the Culhane Grade Pine, Sale # 42-03-01. Sale was completed in 7/31/2011. There is a small amount of RP/WP regeneration present. There are good regeneration pockets where the skid trails were. Aspen is regenerating nicely. The west end of the stand turns into smaller red pine/conifer mix. Jack pine is present in a small portion of the stand but does not make up enough to be a canopy species. This part of the stand was not harvested as part of the sale.  Summer 2011 Regen Check: RP 239 t/ac, WP 16 t/ac, RM 223 t/ac, Hen 58 t/ac, WS 6 t/ac.
39	42210 - Natural Red Pine	High Density Log	13.1	103	51-80		Stand is very steep and wet.
40	42210 - Natural Red Pine	High Density Log	272.9	125	141-170		Stand was pruned and thinned in 1959 and 1960, respectively. The majority of the volume is in the 10-16 inch DBH classes. The crowns of the trees are large and there is no red pine regeneration in the understory.
42	42200 - Natural White Pine	High Density Log	41.8	111	81-110		
44	42340 - Upland Spruce/Fir	High Density Pole	10.1	30			The northern edge of the stand has large log/pole sized trees. The middle is pole/sap sized aspen. Red and white pine are scattered through the stand. Aspen is about 20-30 years old. Subcanopy is mostly 10-20 feet tall, sapling sized trees. Most of the RP and WP is super canopy.
46	4115 - Y.Birch, Hemlock NH	High Density Log	38.0	70	51-80		
49	42210 - Natural Red Pine	High Density Log	4.7	103			
50	4319 - Mixed Upland Forest	High Density Sapling	53.9	27			Stand was harvested as part of Sale #2-82-01 and #08-94-01. Overstory of RP/WP. Thick understory of aspen, red maple, and balsam fir.
52	4130 - Aspen	High Density Pole	11.4	22			Part of this stand was cut as Sale #17-87-01. Good stocking.
53	42200 - Natural White Pine	High Density Log	9.4	92	81-110		Stand was thinned as part of Sale # 08-94-01. A lot of red maple in the understory.
54	429 - Mixed Upland Conifers	Medium Density Log	60.1	80			



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Newberry Mgt. Unit

5 – Forested Stands

Compartment: 041  
Year of Entry: 2013



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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.7	27		Stand was part of sale # 20-84-1.

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	12.0	N/A	Unspecified	
9	6224 - Treed Bog	2.3	N/A	Unspecified	
11	50 - Water	1.5	N/A	Unspecified	
12	6224 - Treed Bog	28.3	No	Unspecified	
13	50 - Water	1.5	No	Unspecified	
15	50 - Water	8.1	No	Unspecified	
16	6224 - Treed Bog	15.4	No	Unspecified	
19	6224 - Treed Bog	12.4	No	Unspecified	
20	50 - Water	16.4	N/A	Unspecified	
21	50 - Water	2.0	N/A	Unspecified	
22	310 - Herbaceous Openland	1.5	N/A	Unspecified	
24	50 - Water	0.9	No	Unspecified	
26	310 - Herbaceous Openland	1.0	N/A	Unspecified	
27	6224 - Treed Bog	54.2	No	Unspecified	Boggy, some exposed water, grass-pink orchids.
29	6224 - Treed Bog	1.7	No	Unspecified	
31	310 - Herbaceous Openland	1.7	N/A	Unspecified	
32	310 - Herbaceous Openland	45.0	N/A	Unspecified	
35	6224 - Treed Bog	7.0	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
36	50 - Water	7.6	N/A	Unspecified	
38	6224 - Treed Bog	9.6	No	Unspecified	
41	6229 - Mixed lowland shrub	11.7	No	Unspecified	
43	6224 - Treed Bog	59.6	No	Unspecified	
45	6224 - Treed Bog	9.3	No	Unspecified	
47	310 - Herbaceous Openland	3.3	N/A	Unspecified	
48	330 - Low-Density Trees	21.3	N/A	Unspecified	
51	50 - Water	2.4	N/A	Unspecified	



**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.

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.

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

Conservation Area	Type	Description
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.