



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42039

Entry Year 2017

Acreage: 2,156

County Luce

Management Area: Deer Park

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**Revision Date:** 2015-08-21

**Stand Examiner:** Amy Douglass

**Legal Description:**

T49N R09W Sections 2, 3, 10, 11, 14 & 15

**Identified Planning Goals:**

Restore overstory species of jack pine and/or red pine and oak, naturally or artificially, within the Duck Lake Fire area, through proper management, while providing for wildlife habitat and recreational opportunities.

**Soil and topography:**

Rubicon sand, intermixed with Rubicon-Spot complex, dominates the compartment, which is mostly flat to shallow rolling uplands. Some inclusions of steep sandy ridges along with low bog areas mostly to the south. The bog areas are on Croswell-Spot complex and Dawson, Greenwood, and Loxley soils.

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

State lands abut to the north and west with private camps located along the Little Two-Hearted River and Pike Lake. Many camps that were burned in the Duck Lake Fire have been rebuilt.

**Unique Natural Features:**

Barclay Lakes Dry Northern Forest and bog ERA's. MNFI has identified several threatened and endangered flora and fauna, and the potential for others.

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

Old fire tower location within the compartment.

**Special Management Designations or Considerations:**

Barclay Lakes ERA was once proposed as a Natural Area.

**Watershed and Fisheries Considerations:**

Fisheries Values: Moderate and Excellent

Fisheries Concerns: This compartment contains portions of the Little Two Hearted River, Little Pike Lake, and borders Pike Lake. The Little Two Hearted River in this area contains native Brook Trout and is a popular fishery for the anglers who enjoy beating the brush. Beaver activity in this area has resulted in many pools, warming stream temperature. Little Pike Lake has moderate fisheries values in that during high water years it serves as a spawning marsh for Northern Pike and minnow species from Pike Lake. The fishery of Little Pike Lake is questionable due to the lack of surveys conducted there. Since the majority of the activity in 2017 is site prepping for planting following the Duck Lake Fire (2012), all activity near any surface water should follow standard BMP's.

**Wildlife Habitat Considerations:**

Compartment 39 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is in the Deer Park Management Area and has American marten, Piping plover, Kirtland's warbler and red crossbill as featured species. The compartment was almost entirely burned over in the recent Duck lake fire and jack pine stands are being regenerated by natural or artificial means. Stands in the central part of the compartment had a heavy oak component but generally the compartment has poor diversity overall.

There are few stands of mature timber remaining and it is not scheduled to be harvested. Thus, there are no timber prescriptions to impact wildlife. Species utilizing this compartment include white-tailed deer and open land bird species.

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

Surface sediments consist of lacustrine sand and gravel. There is insufficient data to determine the glacial drift thickness (~ >100 feet). 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 may be some potential. There is no economic oil and gas production in the UP.

**Vehicle Access:**

County Road 414 runs along the southern portion of the compartment and County Road 412 borders the north end. Interior roads and fire lanes are poor sandy two-tracks.

**Survey Needs:**

None needed at this time.

**Recreational Facilities and Opportunities:**

Pike Lake Campground is located in the southwest corner of the compartment. The Two-Heart ORV trail runs through the compartment and snowmobile trail #8 runs along a portion of the west boundary and County Road 412 on the north boundary.

**Fire Protection:**

As part of the Two Hearted Zone Dispatch Area it has the potential for large fire runs because of the continuous Jack Pine fuel type as witnessed by the Duck Lake Fire in 2012. Private property adjacent to this compartment around Pike Lake and Little Two Hearted River could be at risk to wildfires. The scattering of different age classes in the Jack Pine, simulating fuel breaks, may need to be restored over the years to help suppression efforts. The accessibility for fire suppression is good because of the sandy soils.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

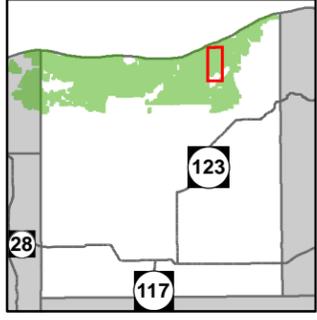
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

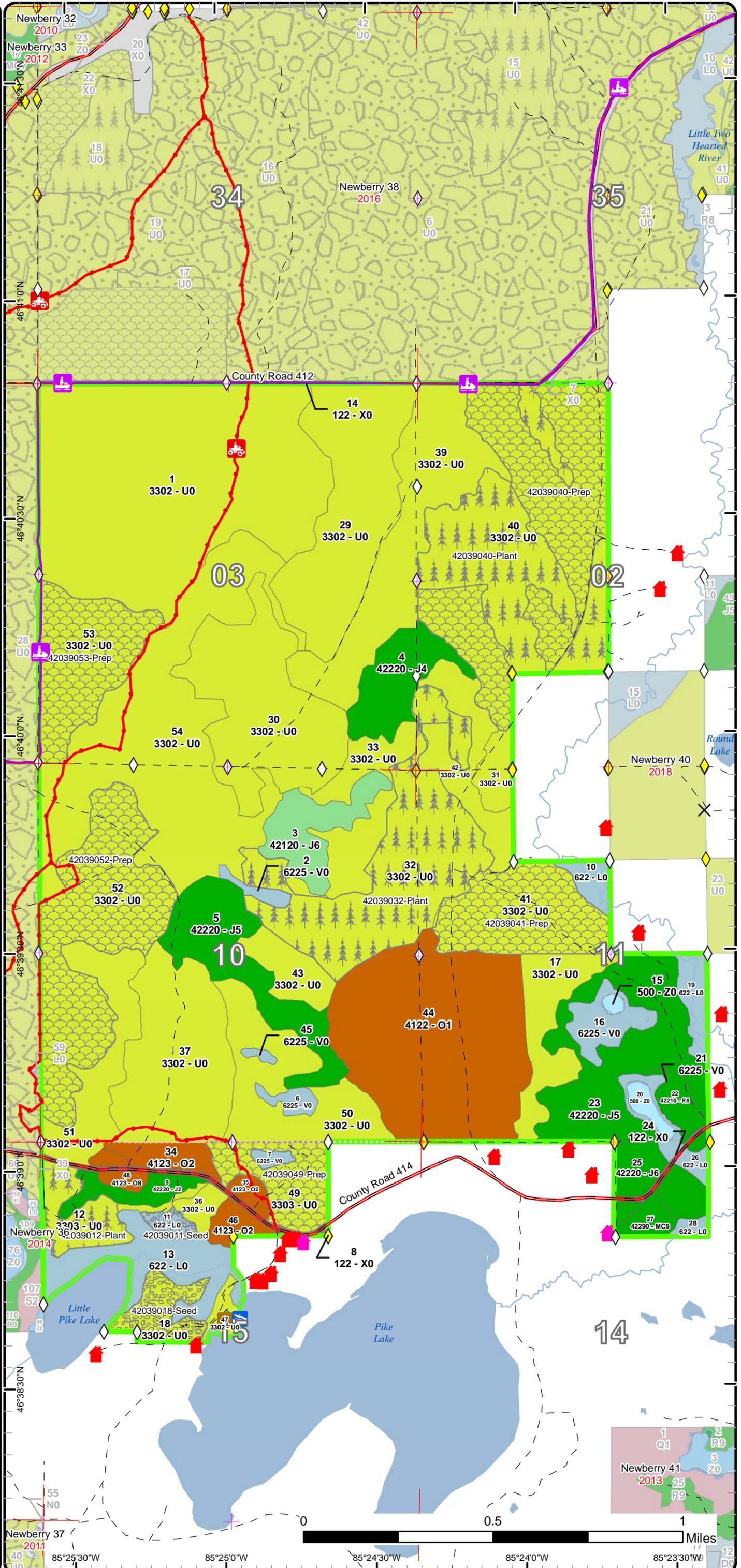
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 39  
 T49N R09W 02,03,10,11,14,15  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2017  
 Acres: 2156 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 3/31/2016  
 Map Phase: Post-Review

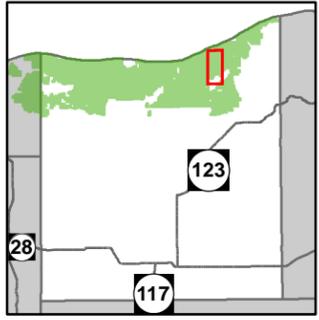


- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- ORV Trails
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ATV
- Designated Snowmobile Trails
- Gate
- Cabin
- Structures, Seasonal Dwelling
- Boating Access Site
- Campground
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- Treatments**
- Site Prep
- Planting (tree species)
- Seeding (tree species)
- Forest Covertypes**
- 412 - Oak Types
- 421 - Planted Pines
- 422 - Natural Pines
- Non-Forest Covertypes**
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

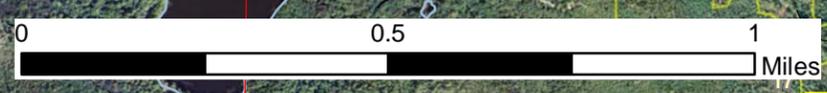
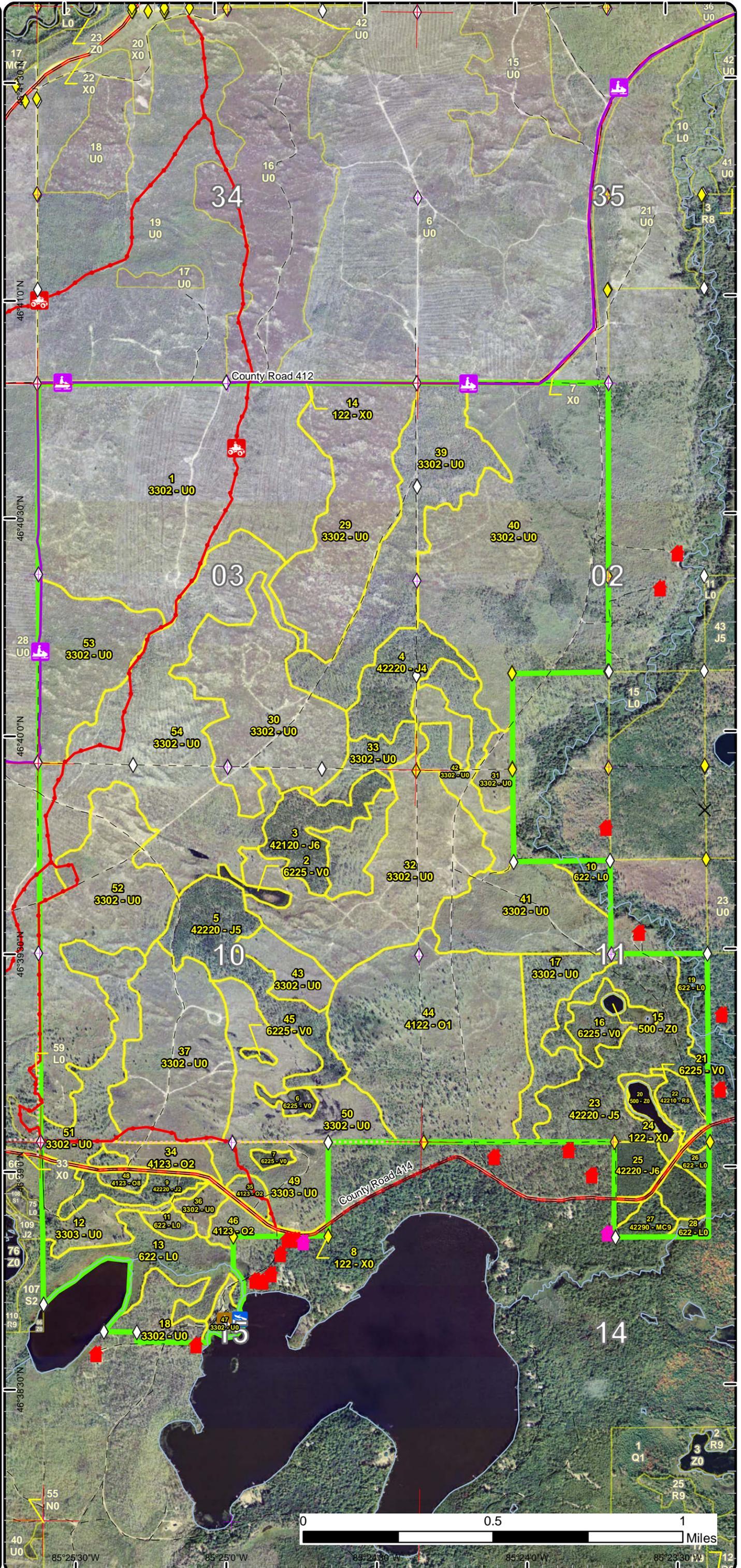


# Stand Boundary Map

Compartment: 39  
 T49N R09W 02,03,10,11,14,15  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2017  
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 Map Revised: 3/31/2016  
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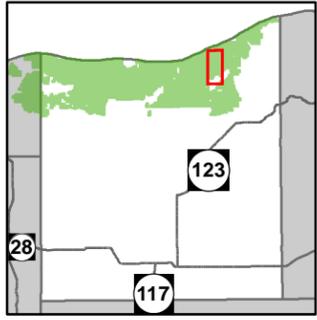
- Miris Corners
- Remonumented Section Corners
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- Field Grade GPS Corners
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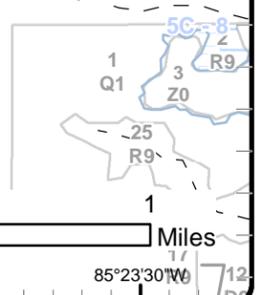
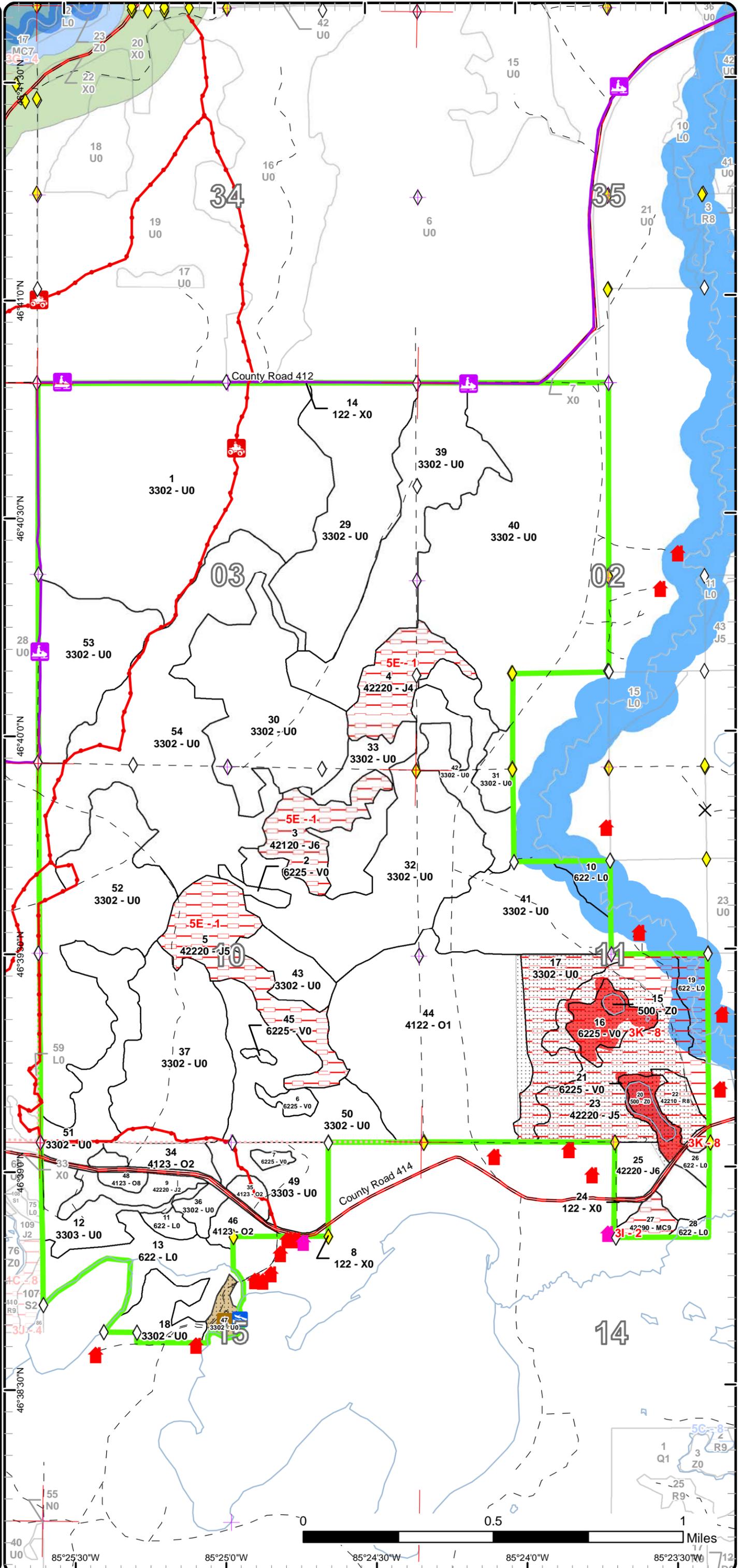
85°25'30"W    85°25'0"W    85°24'30"W    85°24'0"W    85°23'30"W

# Special Conservation Areas & Site Conditions Map

Compartment: 39  
 T49N R09W 02,03,10,11,14,15  
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 Unit: Newberry  
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 Acres: 2156 GIS Calculated  
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- Miris Corners
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- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- SCA
- Unavailable
- 3I: Historical / archeological (add locked comments)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Stand Boundaries
- Special Conservation Areas
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Critical Coastal Habitat (Piping Plover)
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground
- Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Bog	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Jack Pine	0	0	0	13	0	51	31	73	51	0	0	0	0	0	0	0	0	0	219
Low-Density Trees	1618	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1618
Lowland Shrub	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Oak	0	172	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	178
Red Pine	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>1741</b>	<b>172</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>51</b>	<b>31</b>	<b>73</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2156</b>



## Report 2 – Treatment Summary

**Newberry Mgt. Unit**

**Compartment 39**

**Year of Entry:**

**Acres of Harvest**

**Total Compartment Acres: 2,156**

Commercial Harvest -  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

**Proposed and Next Step Treatments by Method**

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>	0	364	228	23	0	0	0	0	0	<b>615</b>
<b>Next Step</b>	0	0	364	21	0	467	1231	0	0	<b>2084</b>
<b>Total</b>	<b>0</b>	<b>364</b>	<b>592</b>	<b>45</b>	<b>0</b>	<b>467</b>	<b>1231</b>	<b>0</b>	<b>0</b>	<b>2699</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
11	42039011-Seed	4.7	622 - Lowland Shrub	Nonstocked		Unspecified	Seeding	Machine Seed	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Seed to spruce and/or jack pine per TMS specifications.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Jack pine/spruce with aspen/birch/maple.

Regen:

Other Low ground. Old next step comments:

Comment:

Proposed Start Date: 10/28/2015

12	42039012-Plant	21.4	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	Planting	Interplant	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Plant, or seed, to jack pine per TMS specifications. Lower priority due to patchy regeneration present.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Seeding, Machine Seed

Treatments:

Acceptable Jack pine, red pine, oak.

Regen:

Other Variable stand - some burned jack pine ~15' tall and some areas of burned standing timber Old next step comments:

Comment:

Proposed Start Date: 10/28/2015

18	42039018-Seed	18.4	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Seeding	Machine Seed	4210 - Planted White Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Seed to white pine per TMS specifications.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable White pine, hemlock, red pine, aspen, maple, birch.

Regen:

Other Burned extremely hard during the Duck Lake Fire. Standing dead timber. Old next step comments:

Comment:

Proposed Start Date: 10/28/2015

32	42039032-Plant	112.0	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Planting	Interplant	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Interplant jack pine within 2013 planting.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial

Treatments:

Acceptable Jack pine with red pine and oak

Regen:

Other Percent to Treat = 100% Old next step comments:

Comment:

Proposed Start Date: 10/28/2015



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
40 42039040-Plant	94.4	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Planting	Initial Plant	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Plant jack pine per TMS specifications. Skip areas of natural regeneration. Some areas have standing dead (unsalvaged) trees along with standing live trees.  
Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial  
Treatments:

Acceptable Jack pine, red pine and oak.  
Regen:

Other Plant at any time, or wait until adjacent roller chopping is complete. Old next step comments:  
Comment:

Proposed Start Date: 10/28/2015

40 42039040-Prep	116.7	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	SitePrep	Roller Chopping	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Roller chop burned regen from 1992 to prepare site for planting. Skip areas of live green trees where possible.  
Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial  
Treatments:

Acceptable Jack pine, red pine and oak.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/28/2015

41 42039041-Prep	56.4	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	SitePrep	Roller Chopping	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Roller chop burned regen from 1992 to prepare for planting.  
Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial  
Treatments:

Acceptable Jack pine, oak.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/28/2015

49 42039049-Prep	30.1	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	SitePrep	Roller Chopping	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Roller chop burned regen from 1992 to prepare for planting. Avoid areas of advanced regeneration.  
Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Pesticide, Aerial  
Treatments:

Acceptable Jack pine, oak with red pine and aspen.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/28/2015



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
52	42039052- Prep	103.8	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Trench area, due to sedge/grass component, prior to planting. Can skip areas with natural regeneration.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant

Treatments:

Acceptable Jack pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/28/2015

53	42039053- Prep	57.5	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	SitePrep	Roller Chopping	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Roller chop burned regeneration from 1992 to prepare for planting.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial

Treatments:

Acceptable Jack pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/28/2015

**Total Treatment  
Acreage Proposed: 615.4**

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 39  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions		
				3I	3K	5E
34	13	0	21	Bog	21	
219	34	0	184	Jack Pine	73	111
1618	1585	0	34	Low-Density Trees	34	
70	59	0	11	Lowland Shrub	11	
7	0	0	7	Natural Mixed Pines	7	
178	178	0	0	Oak		
11	0	0	11	Red Pine	11	
12	12	0	0	Urban		
7	0	0	7	Water	7	
2,156	1,881		275	Total Forested Acres	7	156 111
	87%		13%	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
1	Unavailable	5E: Long-Term Retention	111	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention pockets left from Duck Lake Salvage efforts.							
2	Unavailable	3I: Historical / archeological (add locked comments)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3K: Rare or unique landforms	156	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Includes proposed Barclay Lake Natural Area. No active management has occurred here since prior to 1974, when originally proposed.							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Barclay Lakes Proposed Natural Area</b>	Concentrated Recreation Area	Unspecified	<b>Proposed SCA</b>	130
<b>Comments</b>				
Proposed as a Natural Area circa 1976 and has been managed as such since then.				
<b>Pike Lake State Forest Campground</b>	Concentrated Recreation Area	State Forest Campground	<b>Proposed SCA</b>	6
<b>Comments</b>				
Campground and boat launch				



**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	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	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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	42120 - Planted Jack Pine	Poletimber Well	29.2	49	Unspecified	Retention area from Duck Lake Salvage. Still pretty green with little mortality.
4	42220 - Natural Jack Pine	Poletimber Poor	31.2	56	Unspecified	Left as a retention area from Duck Lake Salvage efforts. The stand has experienced high mortality, but still has live trees. Average residual BA from regeneration survey 2015 = 14.
5	42220 - Natural Jack Pine	Poletimber Medium	50.7	73	Unspecified	Retention area from Duck Lake Salvage efforts. East end experiencing higher mortality than west end. Average residual BA documented from regeneration survey 2015 = 41. Red pine appears more prevalent on the east end.
9	42220 - Natural Jack Pine	Sapling Medium	12.6	24	Immature	Burned in Duck Lake Fire May 2012. Part of salvage sale 2012 DLS #11, sale #42-032-12-01. Mostly live trees that survived the fire. Some mortality. Regeneration survey 2015 shows oak at 267 trees/acre.
22	42210 - Natural Red Pine	Sawtimber Medium	10.7	71	81-110	Burned in Duck Lake Fire 2012. Mostly under burned and fire scarred. Occasional oak.
23	42220 - Natural Jack Pine	Poletimber Medium	73.4	61	Unspecified	Burned during the Duck Lake Fire 2012. Mostly underburned, but definitely fire scarred. Some mortality from the fire. Occasional oak.
25	42220 - Natural Jack Pine	Poletimber Well	21.9	42	Unspecified	Nice stand of young jack pine.
27	42290 - Natural Mixed Pine	Sawtimber Well	7.5	101	111-140	
34	4123 - Red Oak	Sapling Medium	11.5	3	Immature	Burned in Duck Lake Fire May 2012. Planted to jack pine May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey in 2015 revealed 675 trees/acre (525 jack pine and 150 oak). Oak saplings over planted jack pine. Western third of stand is mainly oak, middle is more open with planted jack pine, and eastern end has oak saplings over jack pine, but not as prevalent as western end.
35	4123 - Red Oak	Sapling Medium	4.8	3	Immature	Burned in Duck Lake fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Planted 2 acres in May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Enlarged the stand to encompass oak regeneration in 2015 after regeneration survey results (8400 trees/acre - 500 JP, 7900 oak). Nice natural oak regeneration over some planted jack pine.
44	4122 - Oak, Pine	Sapling Poor	148.0	3	1-50	Duck Lake fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Oak/pine mix. Some jack pine, cut in 2000 and 1994, survived the fire (scattered patches). Regeneration survey in 2015 revealed 712 trees/acre (76 JP and 636 oak). Residual BA = 7.
46	4123 - Red Oak	Sapling Medium	8.1	3	Immature	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #11, sale #42-032-12-01. Residual oak is all standing dead. Nice regen on top of hill, less further down the hill. Regeneration survey 2015 shows 1400 trees/acre (50 jack pine, 1000 oak and 350 aspen).

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 39  
Year of Entry: 2017



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4123 - Red Oak	Sawtimber Medium	5.7	76	1-50	Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #11, sale #42-032-12-01. Oak and aspen sprouts with oak and red pine overstory. Regeneration survey 2015 showed 1800 trees/acre (1200 oak and 600 aspen).



Stand	Cover Type	Acres	Managed Site	General Comments:
1	3302 - Low Density Conifer Trees	240.1		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #5, sale #42-028-12-01. Western half was regenerated in 2000. Some areas may need to be filled in with trees. Regeneration survey 2015: 1859 trees/acre (1490 jack pine and 369 red
2	6225 - Bog	3.9	Yes	Seasonally holds water.
6	6225 - Bog	4.8	Yes	Seasonally holds water.
7	6225 - Bog	2.6	Yes	Seasonally holds water.
8	122 - Road/Parking Lot	7.1	Yes	County Road 414.
10	622 - Lowland Shrub	7.9	Yes	Little Two-Hearted River.
11	622 - Lowland Shrub	4.8		Burned in Duck Lake Fire May 2012. Not salvaged due to age (circa 2000). Black spruce/jack pine.
12	3303 - Mixed Low Density Trees	24.1		Burned in Duck Lake Fire May 2012. Not salvaged due to age (circa 2000). Patchy regeneration.
13	622 - Lowland Shrub	39.5	Yes	Lowland around Little Pike Lake and stream to Pike Lake.
14	122 - Road/Parking Lot	2.5	Yes	County Road 412.
15	500 - Water	1.7	Yes	Small lake.
16	6225 - Bog	15.1	Yes	Bog surrounding small lake.
17	3302 - Low Density Conifer Trees	33.5		Burned in Duck Lake Fire May 2012. Standing snags on west side of Barclay Lakes ERA. Regeneration survey 2015: 2699 trees/acre (2344 jack pine and 355 oak).
18	3302 - Low Density Conifer Trees	18.4		Burned in Duck Lake Fire May 2012. Burned hard through the stand of hemlock and white pine. Some salvage cutting done by small permit. Some red maple stump sprouts and a few white pine seedlings present.
19	622 - Lowland Shrub	11.3	Yes	Little Two-Hearted River.
20	500 - Water	4.9	Yes	Barclay Lake.
21	6225 - Bog	5.9	Yes	Bog surrounding Barclay Lake.



Stand	Cover Type	Acres	Managed Site	General Comments:
24	122 - Road/Parking Lot	2.4	Yes	County Road 414.
26	622 - Lowland Shrub	3.7	Yes	Outflow of Barclay Lake.
28	622 - Lowland Shrub	2.8	Yes	South Branch Little Two-Hearted River.
29	3302 - Low Density Conifer Trees	94.5		Burned in Duck Lake Fire May 2012. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey 2015: 526 trees/acre (jack pine).
30	3302 - Low Density Conifer Trees	91.5		Burned in Duck Lake Fire May 2012. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey 2015: 635 trees/acre (580 jack pine and 55 red pine).
31	3302 - Low Density Conifer Trees	11.3		Burned in Duck Lake Fire May 2012. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-830. Regeneration survey 2015: 400 trees/acre (jack pine).
32	3302 - Low Density Conifer Trees	113.4		Burned in Duck Lake Fire May 2012. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-830. Regeneration survey 2015: 292 trees/acre (jack pine).
33	3302 - Low Density Conifer Trees	34.1		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Northern portion not salvaged (mostly north of fire lane). Some live standing trees in this portion too. Regeneration survey 2015: 430 trees/acre (jack pine).
36	3302 - Low Density Conifer Trees	6.4		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #11, sale #42-032-12-01. Planted May 2013, no trenches, 5 x 8 spacing, approx 1200 trees/acre. FTP# 42-831. Regeneration survey 2015: 300 trees/acre (jack pine). 9/2/15 visit w/ TMS: regeneration OK.
37	3302 - Low Density Conifer Trees	81.6		Burned in Duck Lake Fire May 2012. Regeneration survey 2015: 350 trees/acre (jack pine). Standing submerchantable jack pine snags from 2000. 9/2/2015: nice natural regeneration.
39	3302 - Low Density Conifer Trees	85.8		Burned in Duck Lake Fire May 2012. Part of salvage sale DLS #5, sale #42-028-12-01, but was not cut. Standing dead snags. Regeneration survey 2015: 758 trees/acre (jack pine).
40	3302 - Low Density Conifer Trees	211.1		Burned in Duck Lake Fire May 2012. Part of salvage sale DLS #5, sale #42-028-12-01, but was not cut. Regeneration survey 2015 (minus areas to be roller chopped): 275 trees/acre (jack pine). A few areas with live standing jack pine that fire did not kill, but too small to type out.
41	3302 - Low Density Conifer Trees	56.6		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: varied trees/acre; average 667 trees/acre (492 jack pine and 175 oak). Better regen on east end.



Stand	Cover Type	Acres	Managed Site	General Comments:
42	3302 - Low Density Conifer Trees	32.5		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #5, sale #42-028-12-01 & DLS #10, sale #42-033-12-01. Northern portion of stand, north of fire lane (DLS #5) was not cut (standing snags). Regeneration survey 2015: 2586 trees/acre (jack pine).
43	3302 - Low Density Conifer Trees	17.9		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: 1075 trees/acre (jack pine).
45	6225 - Bog	1.4	Yes	Holds water seasonally.
47	3302 - Low Density Conifer Trees	6.1		Pike Lake Campground. Burned in Duck Lake Fire May 2012. Salvage cut around Pike Lake Campground as part of Duck Lake Campground Salvage. Some red and white pine still alive around the campground area. Some pine has seeded in along the road, as well as red maple stump sprouts.
49	3303 - Mixed Low Density Trees	30.1		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: 599 trees/acre (55 jack pine, 244 oak and 300 red maple).
50	3302 - Low Density Conifer Trees	57.2		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #10, sale #42-033-12-01. Regeneration survey 2015: 3000 trees/acre (2767 jack pine, 166 red pine and 67 oak). There are other low areas extending near the bog areas already typed out.
51	3302 - Low Density Conifer Trees	41.3		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #9, sale #42-032-12-01. Regeneration survey 2015: 2670 trees/acre (2400 jack pine, 10 red pine, 260 oak).
52	3302 - Low Density Conifer Trees	103.9		Burned in Duck Lake Fire May 2012. Regeneration survey 2015: 350 trees/acre (jack pine). Standing submerchantable jack pine snags from 2000.
53	3302 - Low Density Conifer Trees	57.5		Burned in Duck Lake Fire May 2012. Not salvaged due to age (circa 1990). Regeneration survey 2015: 120 trees/acre (jack pine).
54	3302 - Low Density Conifer Trees	169.4		Burned in Duck Lake Fire May 2012. Salvage cut 2012 DLS #5, sale #42-028-12-01; DLS #9, sale #42-032-12-01; & DLS #10, sale #42-033-12-01. Regeneration survey 2015: 628 trees/acre (jack pine).