



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42040

Entry Year 2018

Acreage: 1,747

County Luce

Management Area: Deer Park

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**Revision Date:** 2016-08-30

**Stand Examiner:** Amy Douglass

**Legal Description:**

T50N R09W Sections 25, 35 & 36  
T49N R09W Sections 1, 2, 11 & 12

**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:**

Predominantly Rubicon sand on varying slopes, with small areas of Wallace-Spot complex, Spot-Finch complex and Rousseau fine sand. Topography is rolling to steep sandy plains.

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

Several private parcels along the Little Two Hearted River abut the west side, most with seasonal camps. A block of corporate land borders the south. State lands, with a block of private and corporate land, borders the east.

**Unique Natural Features:**

MNFI has identified several threatened and endangered flora and fauna, and the potential exists for others.

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

An old sawmill and camp were once located on lands acquired in the 1980's.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

Fisheries Values: Excellent

Fisheries Concerns: The Little Two Hearted River borders portions of this compartment. The Little Two Hearted River is a designated trout stream and is assigned a high priority trout stream buffer of 300 feet (for cutting activities). The 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. Since the majority of the activity in 2018 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 40 lies in the far northern portion of Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is part of the Deer Park Management Area and has Kirtland's warbler, piping plover, American marten and red crossbill as featured species with important management concerns. The vegetation is primarily jack and red pine with some small oak stands in the compartment. Diversity of tree species in the red pine stands is poor but not entirely lacking. Overall, pre-settlement vegetation patterns appear to have been similar to the current landscape of this compartment.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands is important to achieving wildlife objectives. For example, retaining soft and hard mast producing species in red pine harvests will help provide food sources, nest and den trees, and improve structural diversity. Currently, regenerating stands of burned timber will be important for improving conditions for wildlife species. Wildlife potentially using this compartment include white-tailed deer, black bear, spruce grouse, gray wolves, coyote and fox.

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

Surface sediments consist of lacustrine sand and gravel and an end moraine of coarse-textured till. 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. Sand and gravel pits are not located in the area, but

there appears to be some sand potential. There is no economic oil and gas production in the UP and there is no metallic mineral potential in this area.

**Vehicle Access:**

Vehicle access is good, with County Road 500 running north/south through the compartment. This road is kept open in the winter by Luce County. Interior access is good with several two-track roads and fire lanes. Roads are sandy and dry during the summer months.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

Numerous opportunities for blueberry picking during the summer months, with one State Forest Campground ~ ½ mile to the north (Culhane Lake SFCG). The North Country Trail passes to the east and north.

**Fire Protection:**

Interior fire lane roads provide control lines, if need be. This compartment is part of the Two Hearted Zone Dispatch Area. The continuous pine fuel types and response time could lend to larger fire runs, as witnessed in the 2012 Duck Lake Fire. Private ownerships with structures around and in this compartment pose wildland urban interface concerns. Generally upland sandy soils will allow normal fire suppression activities; rolling topography in this compartment may challenge suppression activities. Some small lakes may provide natural barriers for running fires.

**Additional Compartment Information:**

Michigan Technological University study on Red Pine (*Pinus resinosa*) management within several blocks in the compartment is now defunct.

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

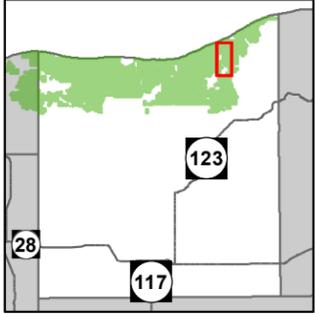
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

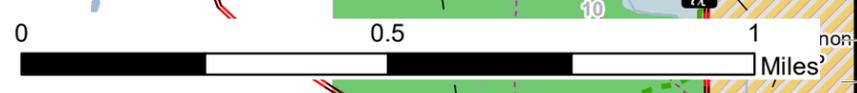
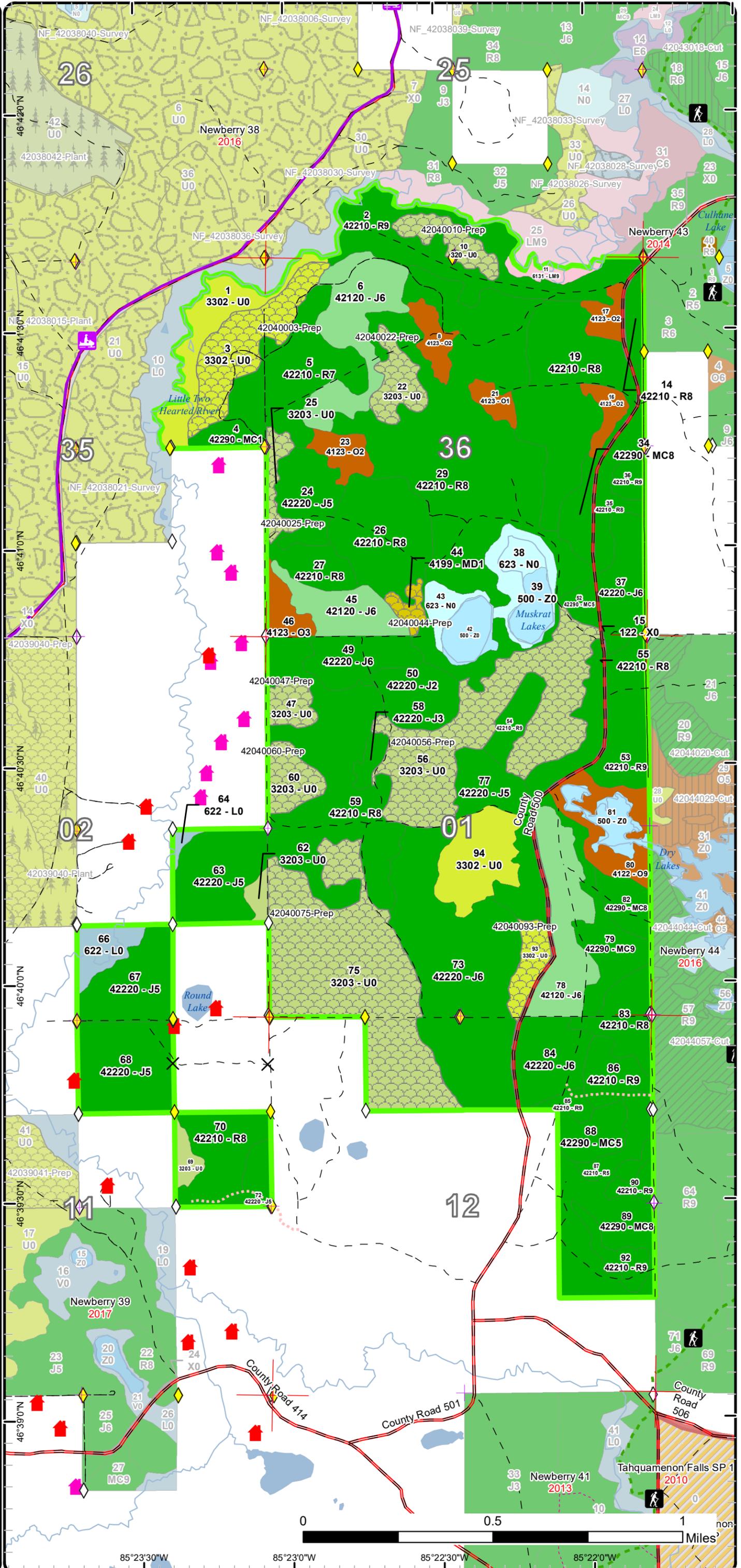
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 40  
 T50N R09W Sec. 25,35,36  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2018  
 Acres: 1,747 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 10/27/2016  
 Map Phase: Post-Review



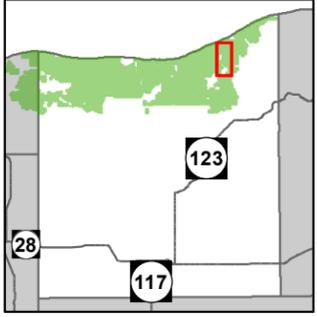
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- X Gate
- Cabin
- Structures, Seasonal Dwelling
- ▲ Campground
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - Closed Roads
- Rivers
- Compartment Boundary
- Site Prep
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



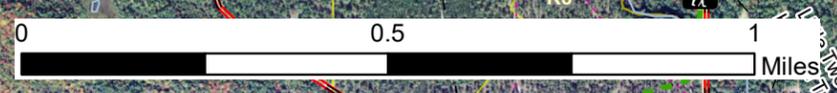
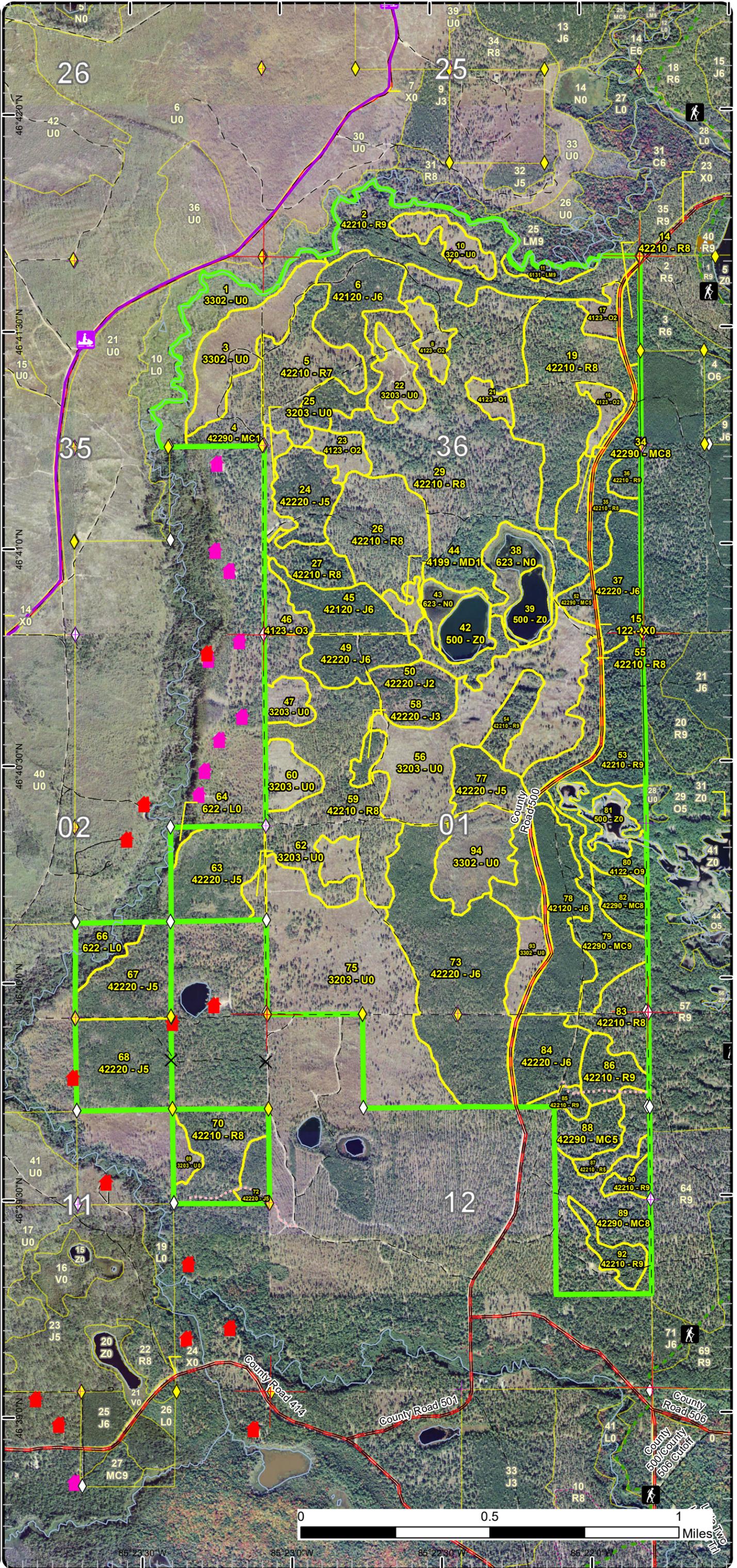
85°23'30"W 85°23'0"W 85°22'30"W 85°22'0"W

# Stand Boundary Map

Compartment: 40  
 T50N R09W Sec. 25,35,36  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2018  
 Acres: 1,747 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 10/27/2016  
 Map Phase: Post-Review



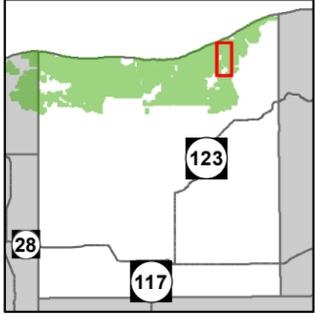
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- X Gate
- Cabin
- Structures, Seasonal Dwelling
- ▲ Campground
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
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- Trail (Non-Recreation)
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- 412 - Oak Types
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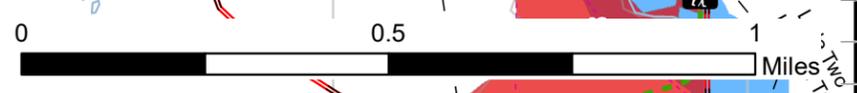
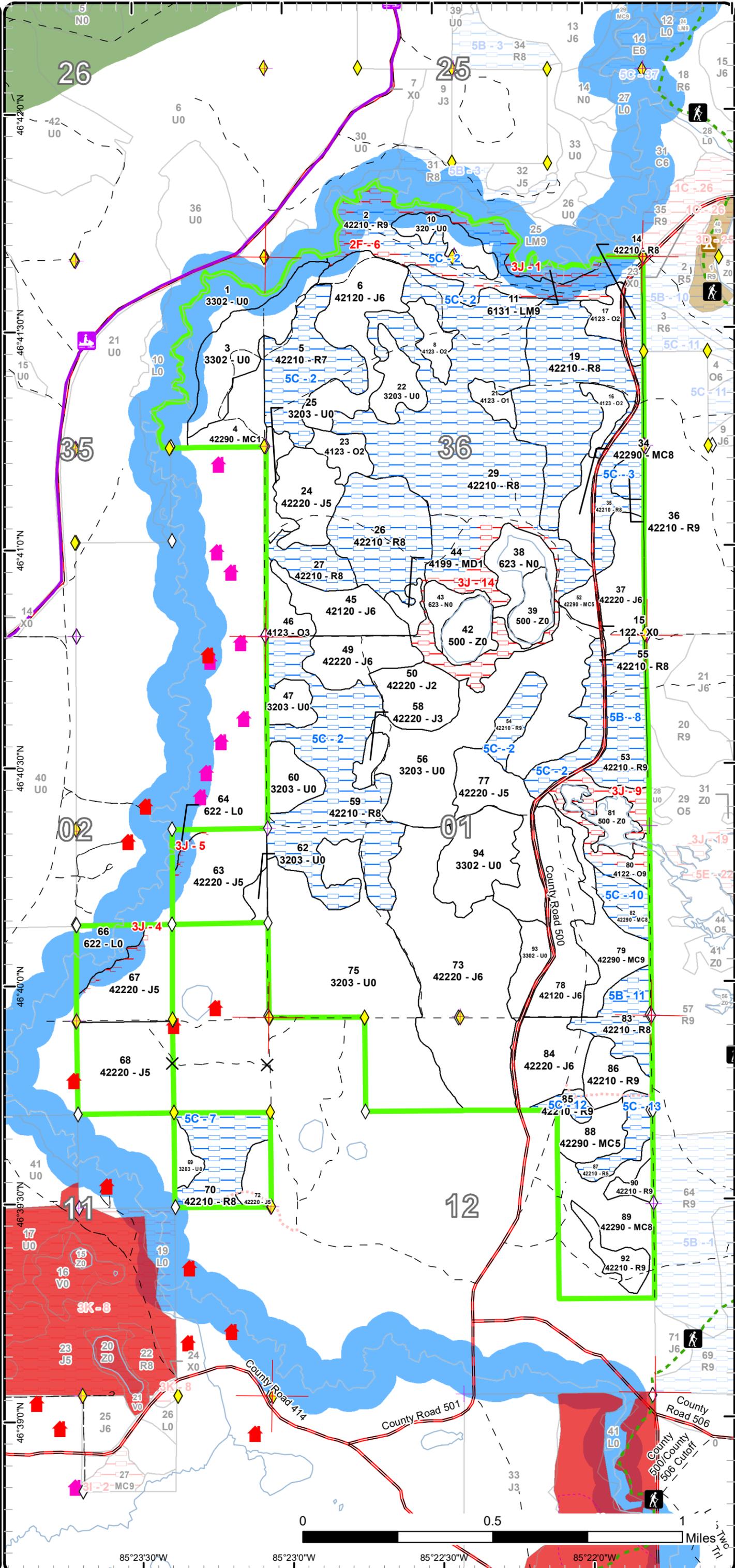
85°23'30" W      85°23'0" W      85°22'30" W      85°22'0" W

# Special Conservation Areas & Site Conditions Map

Compartment: 40  
 T50N R09W Sec. 25,35,36  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2018  
 Acres: 1,747 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 10/27/2016  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- X Gate
- Cabin
- Structures, Seasonal Dwelling
- ▲ Campground
- ▲ Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - Closed Roads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Critical Coastal Habitat (Piping Plover)
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground



85°23'30"W      85°23'0"W      85°22'30"W      85°22'0"W

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
Jack Pine	0	0	0	21	177	255	0	0	0	0	0	0	0	0	0	0	0	0	452
Low-Density Trees	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Marsh	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	0	0	0	16	14	6	0	0	53	0	35	0	0	0	0	0	0	0	124
Oak	0	47	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	67
Red Pine	0	0	0	0	0	0	14	0	14	56	359	148	54	0	0	0	0	0	645
Upland Shrub	262	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	262
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
<b>Total</b>	<b>450</b>	<b>52</b>	<b>0</b>	<b>37</b>	<b>191</b>	<b>261</b>	<b>14</b>	<b>0</b>	<b>67</b>	<b>56</b>	<b>400</b>	<b>168</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1749</b>



## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 40

Total Compartment Acres: 1,747

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
Current	0	301	0	0	0	0	0	0	0	301
Next Step	0	0	301	0	0	0	601	0	0	902
<b>Total</b>	<b>0</b>	<b>301</b>	<b>301</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>601</b>	<b>0</b>	<b>0</b>	<b>1202</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
3	42040003- Prep	33.0	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 open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench parallel to slopes.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other Some hills may make trenching difficult.

Comment:

Proposed Start Date: 10/26/2016

10	42040010- Prep	12.3	320 - Upland Shrub	Nonstocked		Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/26/2016

22	42040022- Prep	13.3	3203 - Upland Blueberry	Nonstocked	0	Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/26/2016

25	42040025- Prep	8.0	3203 - Upland Blueberry	Nonstocked	0	Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/26/2016



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
44	42040044- Prep	4.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	5	Immature	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

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

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/26/2016

47	42040047- Prep	8.9	3203 - Upland Blueberry	Nonstocked		Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/26/2016

56	42040056- Prep	82.5	3203 - Upland Blueberry	Nonstocked		Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other

There are areas of hills that may be hard to trench.

Comment:

Proposed Start Date: 10/26/2016

60	42040060- Prep	13.0	3203 - Upland Blueberry	Nonstocked		Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.

Specs:

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

Treatments:

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/26/2016



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
75	42040075- Prep	114.3	3203 - Upland Blueberry	Nonstocked		Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible. Trench through or around residual pine.  
Specs:

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

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.  
Regen:

Other  
Comment:

Proposed Start Date: 10/26/2016

93	42040093- Prep	10.4	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Trench open areas in preparation for planting. Skip areas of advanced regeneration if possible.  
Specs:

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

Acceptable Mix of jack pine and red pine, with white pine, oak and red maple.  
Regen:

Other  
Comment:

Proposed Start Date: 10/26/2016

**Total Treatment  
Acreage Proposed: 300.6**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 40  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	5C	2F	3J
451	447	0	5	Jack Pine				5
100	100	0	0	Low-Density Trees				
6	0	0	6	Lowland Mixed Forest				6
15	15	0	0	Lowland Shrub				
24	24	0	0	Marsh				
5	5	0	0	Mixed Upland Deciduous				
124	113	11	0	Natural Mixed Pines		11		
66	46	4	16	Oak		4		16
646	28	567	51	Red Pine	48	519	10	42
262	262	0	0	Upland Shrub				
14	14	0	0	Urban				
35	35	0	0	Water				
1,747	1,088	582	78	Total Forested Acres	48	534	10	68
	62%	33%	4%	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	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	445	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Large area of burned timber from Duck Lake Fire in 2012.							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 40  
Year of Entry: 2018

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Adjacent to large area of burned timber from Duck Lake Fire of 2012.							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area burned in Duck Lake Fire of 2012.							
8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 40  
Year of Entry: 2018

9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Ridges surrounding Dry Lakes. Some steep areas.							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	27	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer around Muskrat Lakes.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – 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
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Comments



**Report 6 – 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 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:
2	42210 - Natural Red Pine	Sawtimber Well	53.8	111	81-110	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Variable residual BA. Includes from top of bluff down to river. Fire scarred about 8'-10'. Regeneration survey in 2015 noted scattered small pockets of mainly aspen or oak regen, with many areas of no regen.
4	42290 - Natural Mixed Pine	Sapling Poor	16.4	27	Immature	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. On edge between sap and pole. Harvested in 1988, #27-88. FTP 42-238 for scarification never completed. Semi-open stand.
5	42210 - Natural Red Pine	Sawtimber Poor	35.9	101	1-50	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Variable residual BA (25-50% to 50-75%) and understory (more oak on north end). Fire scarred about 10'.
6	42120 - Planted Jack Pine	Poletimber Well	38.2	37	Unspecified	Part of DLS #1 sale although a portion was not designated to cut. Mainly underburned by Duck Lake Fire in 2012. Just coming into pole size.
8	4123 - Red Oak	Sapling Medium	8.9	5	Immature	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Moderately stocked. Oak stump sprouts and individuals. Varying regen counts from regeneration survey in 2015 (100 - 2800 trees/acre); averaging 1200 trees/acre of oak. Some red pine regen noted.
11	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	5.8	93	51-80	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Lower ground adjacent to the Little Two Hearted River. Information taken from adjacent stand across the river.
14	42210 - Natural Red Pine	Sawtimber Medium	6.9	94	81-110	Sale # 040-08-01, West Culhane Red Pine, thinned in 2011.
16	4123 - Red Oak	Sapling Medium	6.7	5	Immature	Burned in Duck Lake Fire 2012 and salvage cut as part of DLS #1. Oak stump sprouts and individuals about 5' tall predominate. Some seeding of red pine and jack pine.
17	4123 - Red Oak	Sapling Medium	6.6	5	Immature	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Oak stump sprouts and individuals 2' - 10' tall (average about 5'). Strip of RP along CR 500.
19	42210 - Natural Red Pine	Sawtimber Medium	65.1	97	51-80	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Variable residual BA. Little to no regeneration except for small pockets.
21	4123 - Red Oak	Sapling Poor	5.6	5	Immature	Burned in Duck Lake Fire 2012 and salvage cut as part of DLS #1. Oak regeneration mainly in northern half. Kind of thin in spots. Drop down a hill towards the south.
23	4123 - Red Oak	Sapling Medium	9.3	5	Immature	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Fairly decent regeneration, mainly oak with red maple, red pine and jack pine present. Oak is about 5' tall - stump sprouts and individuals. Regeneration survey in 2015 noted a thick pocket of oak (2900 trees/acre)!



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42220 - Natural Jack Pine	Poletimber Medium	22.5	35	Immature	Burned 2012 Duck Lake Fire. Part of DLS #1 and DLS #2 sales. Growing into pole size. Varying mortality from fire. Some oak regen noted from regeneration survey in 2015. T/sale #15-79A harvested in 1980; FTP 42-30 - scarified in 1981? seeded in 1982? planting in 1985?.
26	42210 - Natural Red Pine	Sawtimber Medium	56.7	97	51-80	Burned 2012 Duck Lake Fire. Part of DLS #1 and DLS #2 sales. Variable residual BA. Tall RP. High fire scars (8'-16'). Regen is mostly south of E-W trail road. Small areas of RP regen.
27	42210 - Natural Red Pine	Sawtimber Medium	13.4	97	51-80	Burned 2012 Duck Lake Fire. Part of DLS #1 and DLS #2 sales. Variable residual BA. Large RP logs over JP sap/pole. Fire scarred about 10'-16'. Large limby RP. Occasional oak. The fire killed some of the JP, but most survived. Very little to no salvage activity here.
29	42210 - Natural Red Pine	Sawtimber Medium	159.0	98	81-110	Burned 2012 Duck Lake Fire. Part of DLS #1 and DLS #2 sales. Variable understory regen and variable overstory BA. Several old stands combined together. This area had more oak regeneration overall.
34	42290 - Natural Mixed Pine	Sawtimber Medium	10.7	76	81-110	Burned 2012 Duck Lake Fire. Part of DLS #1 sale. Variable residual BA. JP mixed in throughout much of this stand along CR 500. Very variable. Oak overstory and understory mainly on north and south ends. Areas of RP with WP logs with little regen.
35	42210 - Natural Red Pine	Sawtimber Medium	17.4	88	81-110	Harvested in 1971-72 as part of t. sale #3-71A. Blue line on East line. Two track just to the east of blue line.
36	42210 - Natural Red Pine	Sawtimber Well	5.5	95	141-170	Pocket of red pine. Blue line on East line. Two-track is just east of blue line.
37	42220 - Natural Jack Pine	Poletimber Well	22.8	44	Unspecified	T. sale #3-71A - cut in 1971-72. Growing into pole size.
44	4199 - Other Mixed Upland Deciduous	Sapling Poor	4.9	5	Immature	Burned 2012 Duck Lake Fire. Part of DLS #2 sale. Regeneration is 3' - 10' tall. Little in the way of pine regen, but it is scattered.
45	42120 - Planted Jack Pine	Poletimber Well	21.1	32	Immature	Mostly underburned by Duck Lake Fire in 2012. Area not designated to cut during salvage sales. Cut in 1980, #15-79S. West portion of stand planted in 1985.
46	4123 - Red Oak	Sapling Well	9.2	5	Immature	Burned 2012 Duck Lake Fire. Part of DLS #2 sale. Nice oak regen from fire and salvage.
49	42220 - Natural Jack Pine	Poletimber Well	20.3	47	Unspecified	Mostly underburned from Duck Lake Fire in 2012. Area not designated to cut during salvage sales. Stand scarified in 1969 (FTP 42-40), checked in 1970, 1972 stocking = 1400 trees/acre.
50	42220 - Natural Jack Pine	Sapling Medium	20.5	27	Immature	Mostly underburned from Duck Lake Fire in 2012. Some areas burned more than others. Not cut through during salvage efforts. Timber sale #19-88 "Muskrat jack Pine" - completed 9/88. FTP 42-229 scarified 7/89. Stocking 1187 trees/acre.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	42290 - Natural Mixed Pine	Poletimber Medium	5.5	44	51-80	Burned 2012 Duck Lake Fire. Part of DLS #2 sale. Variable residual BA. Part of t. sale #3-71A.
53	42210 - Natural Red Pine	Sawtimber Well	28.3	95	51-80	Fully regenerated understory around 40' tall. North portion of stand was cut in 10/88, Dry Lake Rafters sale #34-88. Rolling ground.
54	42210 - Natural Red Pine	Sawtimber Well	11.1	104	81-110	Burned 2012 Duck Lake Fire. Part of DLS #2 sale. Some ridges with leatherleaf swales between.
55	42210 - Natural Red Pine	Sawtimber Medium	15.8	104	51-80	Burned 2012 Duck Lake Fire. Part of DLS #2 sale. Old single trenches, but no trees in trenches.
58	42220 - Natural Jack Pine	Sapling Well	4.9	47	Unspecified	Mainly underburned in Duck Lake Fire 2012. Not part of any salvage sales. Harvested under t/sale #17-67A? Scarified in 1969 (FTP 42-40).
59	42210 - Natural Red Pine	Sawtimber Medium	85.5	102	51-80	Burned 2012 Duck Lake Fire. Part of DLS #2 sales. Combined from several old OI stands. Little to no regeneration within this part of the red pine. There are a few areas noted in regeneration survey from 2015 that have some JP and RP regen seeding in, but very variable.
63	42220 - Natural Jack Pine	Poletimber Medium	33.8	46	Unspecified	Burned 2012 Duck Lake Fire. Was not part of any salvage sales. Just growing into pole size. Fair amount of mortality from the fire. Cut in summer 1979 (#14-79A, Block 8). 1981 survey = 808 trees/acre. A fringe of timber was left along the river.
67	42220 - Natural Jack Pine	Poletimber Medium	28.9	37	Unspecified	Mainly underburned from Duck Lake Fire in 2012. Was not part of any salvage sales. Small isolated pockets of dead JP. Just growing into pole size. Cut in summer 1979 (#14-79A). FTP 42-29 completed for scarification. 1981 survey = 696 trees/acre. FTP 42-168 for JP planting (cancelled). Some evidence that RP may have been underplanted. Corner lies just north of E-W road.
68	42220 - Natural Jack Pine	Poletimber Medium	39.4	46	Unspecified	Mostly underburned from Duck Lake Fire in 2012. Was not part of any salvage sales. Cabin is really close to the east line. Strip cutting done; portion cut in the early 60's (#44-60A) and the remainder in 1969 (#5-69A). FTP 42-48 completed 7/1970. Regeneration survey in 1971 = 1200 trees/acre.
70	42210 - Natural Red Pine	Sawtimber Medium	27.5	87	51-80	Mostly underburned from Duck Lake Fire in 2012. Was not part of any salvage sales. Fire scars reach 6'-10'+. Some JP killed. Occasional oak pole size. Small bog inclusion.
72	42220 - Natural Jack Pine	Poletimber Medium	7.8	46	Unspecified	Mostly underburned from Duck Lake Fire in 2012, although many dead trees due to the fire. Was not part of any salvage sales. Occasional young oak. Strip cutting done #44-60A and #5-69A. FTP 42-48: scarification completed 7/1970 and successful regeneration by 1971. A road permit was issued in 6/2003 (#42-002-03), to provide access to private parcel to west for harvesting purposes only.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	42220 - Natural Jack Pine	Poletimber Well	101.6	47	Unspecified	Mainly underburned in 2012 Duck Lake Fire. Was not part of DLS sales. Combined portions of 4 parts stands (old stands 73, 74, 76 & 77). Ages range from 26 to 37. All just coming into pole size.
77	42220 - Natural Jack Pine	Poletimber Medium	29.5	38	Unspecified	Burned 2012 Duck Lake Fire. Part of DLS #16 and DLS #2. Only small portion north of trail road was harvested, most was too small for harvest. Varying degrees of fire/mortality. Just coming into pole size. More older, residual red pine north of trail road. Some pockets of regen noted during regeneration survey in 2015.
78	42120 - Planted Jack Pine	Poletimber Well	36.2	38	Unspecified	On edge between pole and sap.
79	42290 - Natural Mixed Pine	Sawtimber Well	23.7	96	81-110	RP logs over JP sap/poles. Variable densities and areas of JP. Lots of oak seedlings. Rolling terrain.
80	4122 - Oak, Pine	Sawtimber Well	19.6	103	141-170	Hilly, rolling stand surrounding Dry Lakes. Lots of leatherleaf bogs scattered within. Some very steep terrain within also.
82	42290 - Natural Mixed Pine	Sawtimber Medium	11.4	97	111-140	Lots of oak seedlings. Patches of lower potholes - some regeneration has occurred here when dry. Thinned under t. sale #7-76A, cut in 1976-77. Some fairly steep terrain would make harvesting difficult in places.
83	42210 - Natural Red Pine	Sawtimber Medium	20.1	94	51-80	Thinned as part of Rolling Ridges Red Pine, #030-08. Rolling terrain. Seedlings are patchy. Occasional white birch.
84	42220 - Natural Jack Pine	Poletimber Well	24.0	46	Unspecified	Growing into pole size. Old RR grade within stand with older red pine located along it.
85	42210 - Natural Red Pine	Sawtimber Well	4.9	94	81-110	Sale # 030-08-01, Rolling Ridges Red Pine.
86	42210 - Natural Red Pine	Sawtimber Well	13.8	56	81-110	Small RP logs with scattered patches of JP small poles. Strip cuts done within stand in early 60's, with remainder cut in 1969 under t. sale #28-68A. FTP 42-47 completed 6/70 with survey in 1972 = 425 trees/acre. Comment was made in report that there was "an adequate mix of RP poles and saps".
87	42210 - Natural Red Pine	Poletimber Medium	11.3	85	111-140	Sale # 030-08-01, Rolling Ridges Red Pine. Hilly. On edge between pole and log.
88	42290 - Natural Mixed Pine	Poletimber Medium	14.1	38	81-110	Variable stand, both in BA and size. Some semi-open areas. Property acquired in 1983 and harvested around 1978.
89	42290 - Natural Mixed Pine	Sawtimber Medium	42.7	76	51-80	Variable BA and size. Small inclusion of higher BA. Rolling topography. Property acquired in 1984.
90	42210 - Natural Red Pine	Sawtimber Well	4.8	78	111-140	Rolling hill of higher BA timber than surrounding area.

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Newberry Mgt. Unit

Report 7 – Forested Stands

Compartment: 40  
Year of Entry: 2018



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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	42210 - Natural Red Pine	Sawtimber Well	9.4	71	81-110	Variable BA, just a little thicker than surrounding stand. Rolling terrain. Property acquired in 1984.

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Stand	Cover Type	Acres	Managed Site	General Comments:
1	3302 - Low Density Conifer Trees	27.7		Steep hillside down to river. Burned 2012 Duck Lake Fire. Maintain as buffer along the river.
3	3302 - Low Density Conifer Trees	33.0		Burned 2012 Duck Lake Fire. Part of DLS #1. Some natural JP seeding in (mainly along roads). Small area near north end with lots of oak regeneration. Regeneration survey in 2015 showed no to little regen, except for the north end already noted.
10	320 - Upland Shrub	12.3		Burned in Duck Lake Fire 2012. Part of DLS #1 sale. West half has a bit more standing live red pine than east half.
15	122 - Road/Parking Lot	14.3	No	County Road 500
22	3203 - Upland Blueberry	13.3		Burned 2012 Duck Lake Fire. Part of DLS #1 sale. More oak regen on southern end. Some RP/JP seeding in, but minimal.
25	3203 - Upland Blueberry	8.0		Burned 2012 Duck Lake Fire. Part of DLS #1 and DLS #2 sales. Regeneration survey in 2015 showed no pine regen.
38	623 - Emergent Wetland	16.8	No	Grass/rush; part of Muskrat Lakes.
39	500 - Water	10.3	No	Muskrat Lakes.
42	500 - Water	12.4	No	Muskrat Lakes.
43	623 - Emergent Wetland	6.9	No	Rushes/grasses and leatherleaf around Muskrat Lakes.
47	3203 - Upland Blueberry	8.9		Burned 2012 Duck Lake Fire. Part of DLS #2. Some standing live RP and some standing RP snags. Some RP and JP seeding in. Regen survey in 2015 showed no regeneration.
56	3203 - Upland Blueberry	82.5		Burned 2012 Duck Lake Fire. Part of DLS #2. Salvage cut. Not much for regeneration, although some RP regen was noted during regeneration survey in 2015 (0 - 500 trees/acre on plots; average of 100 trees/acre). Scattered individual and small pockets of JP and RP regen. Nice pocket on very north end along road.
60	3203 - Upland Blueberry	13.0		Burned 2012 Duck Lake Fire. Part of DLS #2. Some natural regeneration on north end. Regen survey in 2015 yielded roughly 250 trees/acre red pine.
62	3203 - Upland Blueberry	3.9		Burned 2012 Duck Lake Fire. Was not part of any salvage sales. Part is pretty open and part is dead JP. Some live RP logs and standing log-sized snags (RP and WP). No regen recorded during regen survey in 2015.
64	622 - Lowland Shrub	2.3	No	Little Two Hearted River corridor.



Stand	Cover Type	Acres	Managed Site	General Comments:
66	622 - Lowland Shrub	12.3	No	Little Two Hearted River corridor.
69	3203 - Upland Blueberry	5.4		Standing dead JP burned in the Duck Lake Fire in 2012. Was not part of any salvage sales. Little in the way of regeneration (none detected during regen survey in 2015). Occasional live RP.
75	3203 - Upland Blueberry	114.3		Burned in 2012 Duck Lake Fire. Cut as part of DLS #16 and DLS #2. Red maple stump sprouts. Slash left from salvage cut. Scattered live RP and WP. Some patchy natural pine regeneration noted from regen survey in 2015, but mostly little to no regen noted.
81	500 - Water	12.1	No	Holds water except for when dry. Called "Dry Lakes" for a reason.
93	3302 - Low Density Conifer Trees	10.4		Burned 2012 Duck Lake Fire. Part of DLS #16. Salvage cut. some live residual RP scattered in wide strip along CR 500. Scattered pockets of JP regen with a few RP seedlings too. Spotty regen.
94	3302 - Low Density Conifer Trees	28.7		Burned 2012 Duck Lake Fire. Part of DLS #16. Only narrow strip along trail road was harvested. Most was too small to harvest, so is standing dead. Regeneration survey in 2015 shows an average of 850 trees/acre of jack pine. Isolated individual and small pockets of live residual jack pine.