



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 12

Entry Year 2016

Acreage: 2,002

County Luce

Management Area: Deer Park

**Revision Date:** 07/24/2014

**Stand Examiner:** Amy Douglass

### Legal Description:

T49N, R11W, Sec. 7-9; T49N, R12W, Sec. 12

### Identified Planning Goals:

Enhance age class diversity and forest health within the jack pine and red pine/white pine types through proper management, while providing for wildlife habitat and recreational opportunities.

### Soil and topography:

The majority of the compartment is comprised of Rubicon sand, with a dabbling of Croswell sand and Croswell-Au Gres sands on outwash plains. The little bit of poorly drained ground is comprised Kinross-Au Gres complex; Dawson, Greenwood, and Loxley soils; and Spot peat on depressions and bogs. The topography is flat to rolling with steep east-west escarpments. The southwestern portion of the compartment has the most relief including many steep slopes, gullies and depressions.

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

With the exception of a private 40 on the eastern edge of Section 9 and another directly to the east in Section 10 of neighboring Compartment 17, Compartment 12 lies within a large block of state-owned land. It is situated between Muskallonge Lake and the Blind Sucker Flooding, and the north boundary of the compartment is one mile south of Lake Superior.

### Unique Natural Features:

No Unique Natural Features known.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

None noted.

### Watershed and Fisheries Considerations:

Fisheries Values: Moderate

Fisheries Concerns: This compartment contains Ready, Schaaf, and Snowplow lakes. Ready Lake was once used as a walleye pond and received habitat improvement efforts in 2004 with FRD improve the fishery there. Low water level in Ready Lake has resulted in primarily a car-topper/carry-in fishery that is limited to a few yellow perch. No treatments are near any of the listed lakes in this compartment, so Fisheries has no concerns at this time.

### Wildlife Habitat Considerations:

Compartment 12 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 in the Deer Park Management Area and has the American marten, Kirtland's warbler, piping plover and red crossbill as featured species. The vegetation is primarily red and jack pine with some smaller stands of aspen and birch scattered throughout the compartment. 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 will be important to achieving wildlife objectives. For example, retaining soft and hard mast producing species and red and white pine in jack pine final harvests will provide food sources, nest and den trees, and improve stand diversity. Conifer components of aspen stands are commonly retained during harvest. Wildlife species potentially using this compartment include white-tailed deer, black bear, marten, spruce grouse, and snowshoe hare.

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

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

#### **Vehicle Access:**

Vehicle access is good throughout the compartment. County Road 410 borders the western edge. County Road 407 is less than a mile to the north. An east-west fire lane borders the northern edge. Seven Mile Fire Land borders the southern edge, while County Road 410 is a mile to the south. Many two-tracks and old fire lanes criss-cross the area. The old north-south fire lanes are best accessed from either end and avoiding the escarpment climbs. Travelling from south to north is doable.

#### **Survey Needs:**

Corners may be needed around the private land in Section 9, although there might be evidence there from the timber sale. The timber sale lines seem to line up good with the quarter-quarter grid.

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

While there are no developed camping facilities available within the compartment, the area receives considerable use. In addition to hunting and fishing opportunities, Pine Ridge ORV Trail, which connects to the Two Heart ORV Trail, cuts across the eastern and western portions of the compartment, and the firelines are used by off-roaders wanting to take a break from the trail. Other uses are hiking, berry picking, wildlife viewing and snowmobiling. Developed camping areas found in nearby compartments include: Muskallonge Lake State Park, Lake Superior State Forest Campground, and the two Blind Sucker State Forest Campgrounds.

#### **Fire Protection:**

Mixture of conifer and hardwood types reduces the potential for very large fire runs. The intermixed lowland areas may complicate fire fighting efforts in those areas. Trail road network provides for decent access for fire suppression.

#### **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**

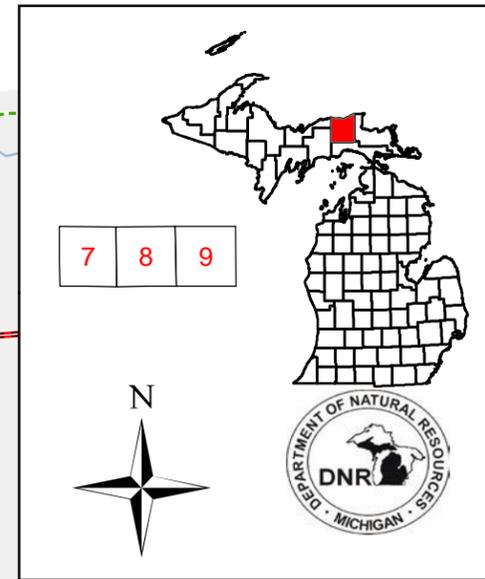
#### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

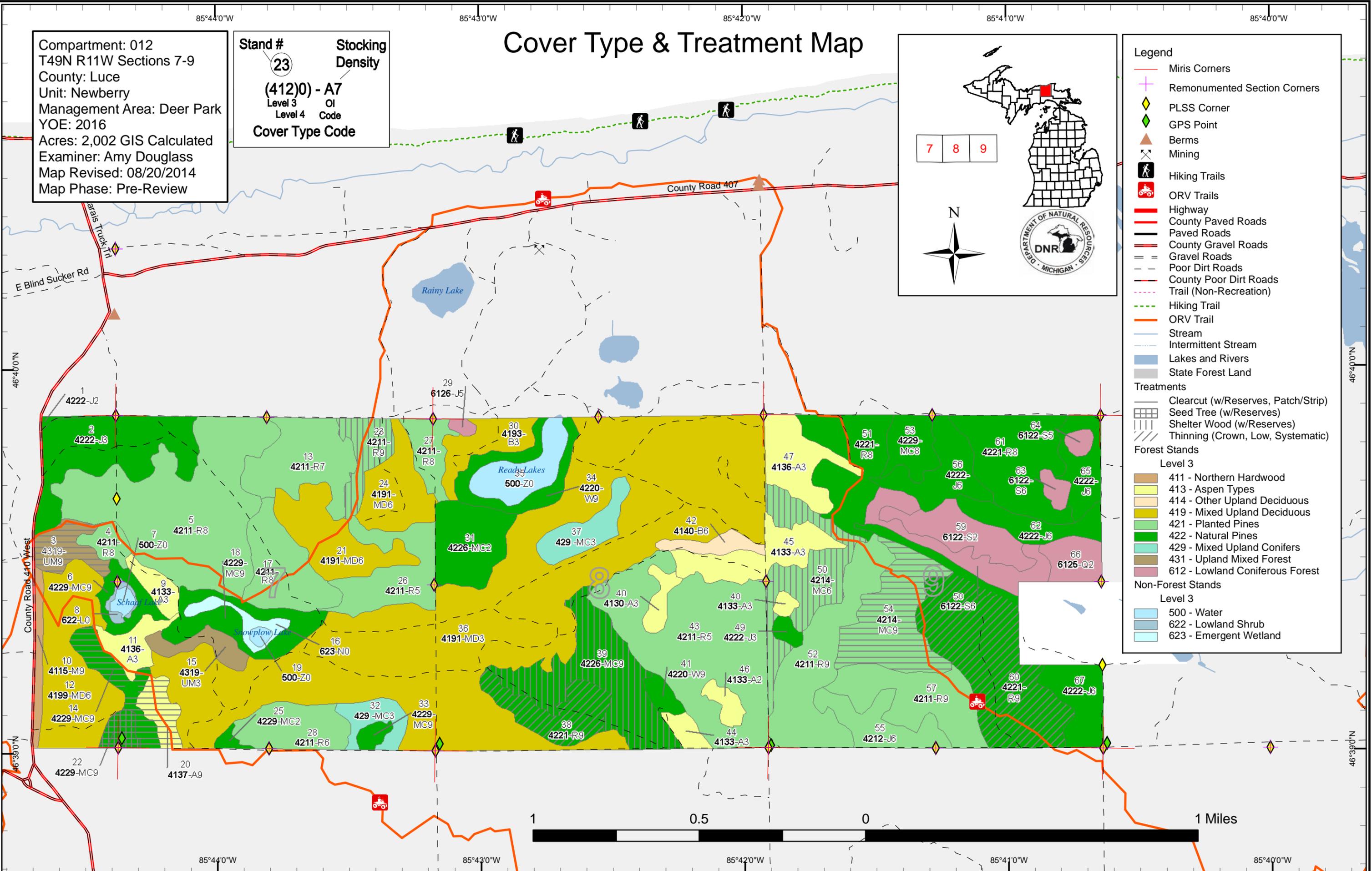
# Cover Type & Treatment Map

Compartment: 012  
 T49N R11W Sections 7-9  
 County: Luce  
 Unit: Newberry  
 Management Area: Deer Park  
 YOE: 2016  
 Acres: 2,002 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 08/20/2014  
 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
  - ◆ PLSS Corner
  - ◆ GPS Point
  - ▲ Berms
  - ⛏ Mining
  - 🚶 Hiking Trails
  - 🛵 ORV Trails
  - 🛣 Highway
  - 🛣 County Paved Roads
  - 🛣 Paved Roads
  - 🛣 County Gravel Roads
  - 🛣 Gravel Roads
  - 🛣 Poor Dirt Roads
  - 🛣 County Poor Dirt Roads
  - 🛣 Trail (Non-Recreation)
  - 🛣 Hiking Trail
  - 🛣 ORV Trail
  - 🌊 Stream
  - 🌊 Intermittent Stream
  - 🌊 Lakes and Rivers
  - 🌊 State Forest Land
- Treatments**
- ▨ Clearcut (w/Reserves, Patch/Strip)
  - ▨ Seed Tree (w/Reserves)
  - ▨ Shelter Wood (w/Reserves)
  - ▨ Thinning (Crown, Low, Systematic)
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 414 - Other Upland Deciduous
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3**
- 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



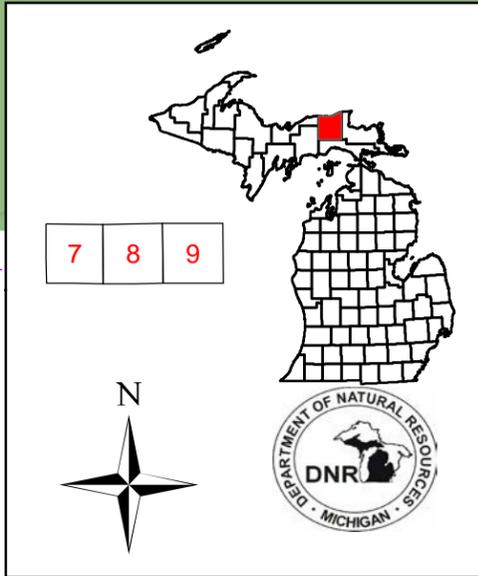
85°44'0"W      85°43'0"W      85°42'0"W      85°41'0"W      85°40'0"W  
 46°40'0"N      46°39'0"N



# Special Conservation Areas & Site Conditions Map

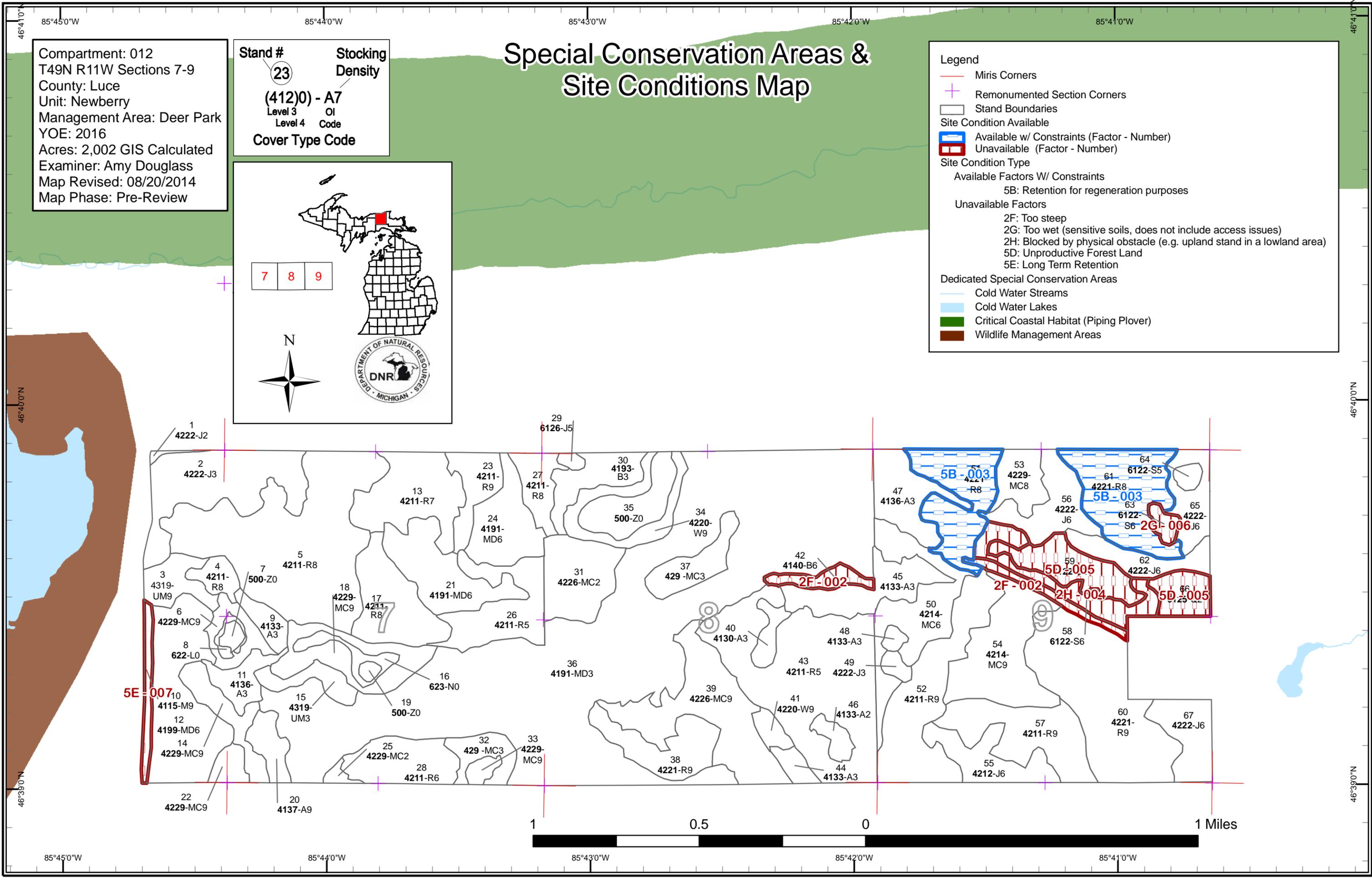
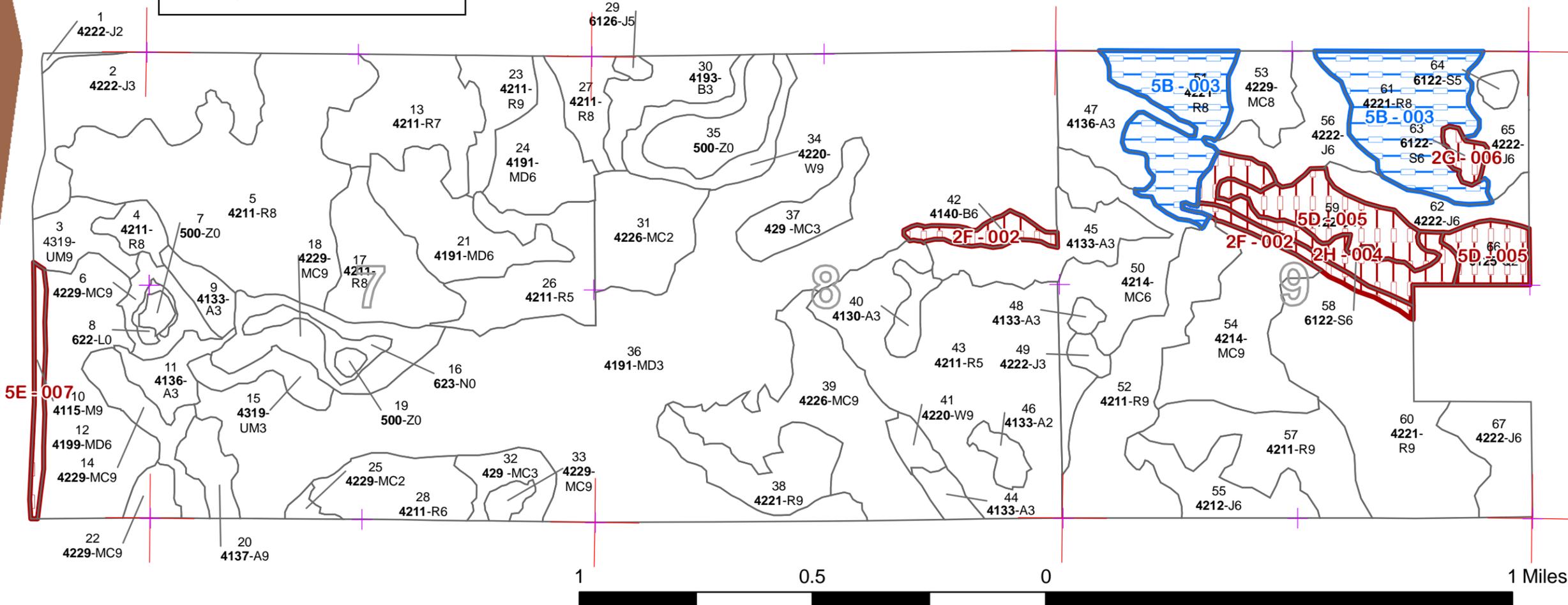
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 Unit: Newberry  
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 YOE: 2016  
 Acres: 2,002 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 08/20/2014  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Site Condition Type
  - Available Factors W/ Constraints
    - 5B: Retention for regeneration purposes
  - Unavailable Factors
    - 2F: Too steep
    - 2G: Too wet (sensitive soils, does not include access issues)
    - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
    - 5D: Unproductive Forest Land
    - 5E: Long Term Retention
- Dedicated Special Conservation Areas
  - Cold Water Streams
  - Cold Water Lakes
  - Critical Coastal Habitat (Piping Plover)
  - Wildlife Management Areas



Report 1 – Total Acres by Cover Type and Age Class



	Age Class													Total	
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen	28	0	69	0	0	0	0	11	0	0	0	0	0	0	109
Jack Pine	1	53	4	65	41	0	2	0	0	0	0	0	0	0	166
Lowland Conifers	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	0	8	49	0	0	0	0	0	57
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	467	60	0	0	0	0	0	0	0	0	0	527
Natural Mixed Pines	0	34	0	0	0	0	59	4	77	0	0	0	0	0	175
Northern Hardwood	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Paper Birch	0	0	19	0	0	0	0	8	0	0	0	0	0	0	28
Planted Mixed Pines	0	0	0	0	0	0	89	0	0	0	0	0	0	0	89
Red Pine	0	0	0	0	0	0	237	297	91	48	39	0	0	0	712
Upland Conifers	0	13	0	17	0	0	0	0	0	0	0	0	0	0	30
Upland Mixed Forest	0	0	11	0	0	0	0	15	0	0	0	0	0	0	26
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
White Pine	0	0	0	0	0	0	0	0	26	0	0	0	0	0	26
<b>Total</b>	<b>67</b>	<b>100</b>	<b>103</b>	<b>549</b>	<b>101</b>	<b>0</b>	<b>388</b>	<b>343</b>	<b>264</b>	<b>48</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2002</b>



## Report 2 – Proposed Treatment Summaries

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

**Compartment 012**  
**Total Compartment Acres: 2,002**

### Acres by Treatment Type

Commercial Harvest - 323    Tree Planting - 0    Other - 0  
 Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Aspen Types</b>	11	0	0	0	0	0	11
<b>Natural Pines</b>	16	0	7	59	109	0	191
<b>Planted Pines</b>	48	0	0	58	0	0	106
<b>Upland Mixed Forest</b>	15	0	0	0	0	0	15
<b>Total</b>	<b>90</b>	<b>0</b>	<b>7</b>	<b>117</b>	<b>109</b>	<b>0</b>	<b>323</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	42012003-Cut	14.8	4319 - Mixed Upland Forest	High Density Log	70	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all trees except red pine, white pine and hemlock. Mark red pine and white pine if needed so as not to exceed 40 BA total residual. Some areas may be too steep for harvest. Leave some aspen/birch in the red line.</p> <p><u>Specs:</u></p> <p><u>Other</u> ORV trail runs along northern edge.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regeneration includes birch, aspen, maple, jack pine, red pine, white pine, hemlock and balsam.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
14	42012014-Cut	15.8	42290 - Natural Mixed Pine	High Density Log	85	81-110	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except red pine, white pine and hemlock. Mark red and white pine where needed down to 40 - 60 BA. Areas of high red pine/white pine BA may be left at 60 - 80 BA. Some areas are too steep for harvest. Leave some aspen/birch in red line.</p> <p><u>Specs:</u></p> <p><u>Other</u> North end of stand can be accessed off closed road that borders northern edge. Southern end may need to be looked at better for best access.</p> <p><u>Comments:</u> Old N/S road was found, but still may be difficult to truck from. ORV trail skirts along the northeastern edge. A steep bowl is cut out in the middle. It may split the stand into two treatments (north would be a clearcut with reserves, south would be shelterwood with reserves probably).</p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regen includes aspen, jack pine, white pine, red pine, red maple and balsam fir.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
20	42012020-Cut	11.0	4137 - Aspen, Birch	High Density Log	71		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Cul all species except red pine, white pine and hemlock. Mark red and white pine where needed for maneuverability. Leave beech. Leave some aspen/birch in red line.</p> <p><u>Specs:</u></p> <p><u>Other</u> ORV trail bisects stand.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regeneration includes aspen, birch, white pine, red pine, spruce, fir and maple.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
22	42012022-Cut	6.7	42290 - Natural Mixed Pine	High Density Log	85	81-110	Harvest	Seed Tree with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all species except red pine, white pine, hemlock and large spruce. Parts may be too steep to cut.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Regeneration survey per Work Instructions. Acceptable regen includes jack pine, red pine, white pine, spruce, balsam and maple.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
23	42012023-Cut	16.6	42110 - Planted Red Pine	High Density Log	77	111-140	Harvest	Shelter Wood with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark red pine/white pine down to 40 - 50 BA. Remove all jack pine.</p> <p><u>Specs:</u></p> <p><u>Other</u> ORV trail runs through middle of stand. Try to protect submerchantable spruce during harvest.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Scarify after harvest to provide seed bed for red pine, white pine and jack pine. Regeneration survey per Work Instructions. Acceptable regen includes red pine, jack pine, white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	42012038-Cut	26.8	42210 - Natural Red Pine	High Density Log	77	141-170	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin red pine/white pine down to 100 - 120 BA.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
39	42012039-Cut	59.1	42260 - Natural Pine, Mixed Deciduous	High Density Log	64	111-140	Harvest	Shelter Wood with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Cut red pine/white pine down to 40 - 50 BA, removing all other species. Leave beech and oak. Leave some aspen/birch in the red line.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u> Scarify after harvest to promote seedbed for white pine/red pine. Regeneration survey per Work Instructions. Acceptable regen includes white pine, red pine, aspen, maple and balsam.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
50	42012050-Cut	41.3	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Pole	64	81-110	Harvest	Shelter Wood with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Mark red pine/white pine down to 40 - 50 BA. Leave oak and birch. Cut all other species.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u> Small stretch with ORV trail. May want to delineate this piece out.										
<u>Next</u>										
<u>Steps:</u> Scarification following harvest to promote jack pine. Regeneration survey per Work Instructions. Acceptable regen includes jack pine, red pine, white pine, aspen and oak.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
54	42012054-Cut	48.0	42140 - Planted Mixed Pine	High Density Log	64	111-140	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all species, leaving 10 - 20 BA of red and white pine. Leave oak and birch.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u> ORV trail through stand.										
<u>Next</u>										
<u>Steps:</u> Scarification following harvest to promote jack pine. If scarification fails, plant to jack pine. Regeneration survey per Work Instructions. Acceptable regen includes jack pine, red pine, white pine, aspen and oak.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
60	42012060-Cut	82.6	42210 - Natural Red Pine	High Density Log	85	111-140	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark red pine/white pine down to 80 - 100 BA. Remove all merchantable jack pine. Leave oak and birch.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u> ORV trail cuts through part of stand.										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Total Treatment Acreage Proposed:		322.6							



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

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**Total Treatment**  
**Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment 012  
Year of Entry 2016

### Availability for Management

Availability for Management			Dominant Site Conditions							
Total Acres	Acres Available	Acres Not Available		No	5E	5D	5B	2H	2G	2F
109	109		<b>Aspen</b>	109						
166	166		<b>Jack Pine</b>	166						
14		14	<b>Lowland Conifers</b>			14				
57	3	53	<b>Lowland Spruce/Fir</b>	3		25		24	5	
527	527		<b>Mixed Upland Deciduous</b>	527						
175	175		<b>Natural Mixed Pines</b>	175						
8		8	<b>Northern Hardwood</b>		8					
28	19	8	<b>Paper Birch</b>	19						8
89	89		<b>Planted Mixed Pines</b>	89						
712	703	8	<b>Red Pine</b>	617			86			8
30	30		<b>Upland Conifers</b>	30						
26	26		<b>Upland Mixed Forest</b>	26						
26	26		<b>White Pine</b>	26						
1,965	1,873	92	Total Forested Acres	1,786	8	39	86	24	5	16
	95%	5%	Relative Percent							

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	2F: Too steep	17	5E: Long Term Retention			
<b>Comments:</b> Step bluff. Good to leave for diversity.							
003	Available	5B: Maintain for regeneration purposes	86				
<b>Comments:</b>							

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment 012  
Year of Entry 2016

004	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	24
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**Comments:**

Area blocked by steep hillsides.

005	Not Available	5D: Unproductive Forest Land	39
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**Comments:**

006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5
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**Comments:**

007	Not Available	5E: Long Term Retention	8
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**Comments:**

Old buffer strip along county road. Beech too far gone and regen too advanced for salvage. Leave for diversity.



**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>Comments</b>				



**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density	1.1	8		Larger part of stand is in compartment to the north. Stand was harvested and scarified in 2006 (sale #007-05-01).
2	42220 - Natural Jack Pine	High Density Sapling	53.5	14		Patches of residual RP. Overall thick JP reproduction. Cut in 1998 (Snow Plow Lake #002-96), scarified Nov 1998 (FTP 42-463).
3	4319 - Mixed Upland Forest	High Density Log	14.8	70	81-110	High ridge thru middle of stand. Pine/birch mix. Ridge slopes down on either side to RM/WB mix with hemlock. Most birch and beech are dead or dying.
4	42110 - Planted Red Pine	Medium Density Log	8.0	73	51-80	Variable regen. Still high stocked RP/WP. Some areas with no to little regen. Original planting of 2-0 R, J, W, in spring 1941. Part of "Schaaf Lake Birch" sale # 18-89 -- cut 1991. ORV trail runs through edge of stand.
5	42110 - Planted Red Pine	Medium Density Log	121.5	77	51-80	RM stump sprouts and A from cut. Some JP, RP & WP seeded in from cut, but also RP & WP older saps present. Lots of old WP stumps. N 1/2 of stand planted with 2-0 RP & JP in spring 1937; S 1/2 of stand planted with 2-0 RP, JP and WP in spring of 1937; Western portion planted with 2-0 RP, JP & WP in spring 1941. ORV trail skirts south portion of stand. Stand was final harvested in 2006-08 (Schaaf Lake Pine #022-06-01). Scarified in Aug 2009. Regeneration check conducted in 2014 - average trees/ac = 2083 (JP-451, RP-223, RM-759, WP-302, A-245 trees/acre); average residual BA = 60 (range 30 - 110).
6	42290 - Natural Mixed Pine	High Density Log	11.0	85	51-80	Buffer around Schaaf Lake. Includes some steep slopes.
9	4133 - Aspen, Mixed Pine	High Density Sapling	8.6	22		Part of "Schaaf Bluff Birch" sale # 18-89; shelterwood cut completed 1991 - left oak, red and white pine, hemlock.
10	4115 - Y.Birch, Hemlock NH	High Density Log	8.1	88	51-80	Buffer strip left along the road. Beech and birch are dead and dying. BBD present. Occasional WP and Fs. Thick regen present.
11	4136 - Aspen, Mixed Conifer	High Density Sapling	12.5	7		Stand harvested as "Schaaf Lake Aspen", sale #020-06-01. Completed 10/30/07. Regen check conducted Summer 2012: Aspen = Fully Stocked.
12	4199 - Other Mixed Upland Deciduous	High Density Pole	60.2	42		Some residual beech, RM and H left from cut. Most beech dead/dying (BBD). Occasional WP.
13	42110 - Planted Red Pine	Low Density Log	40.2	77	1-50	RP over JP & A. Areas of higher residual BA; some areas of higher FP reproduction than others. The final harvest of this stand was completed 6/99 (Ready Lake Jack Pine # 007-96-01). Scarification was completed 7/99 ( FTP #42-466). Stocking survey completed 5/16/2003 - 867 trees per acre. Overstory pine is residual from 1937 planting of 2-0 RP, JP & WP.
14	42290 - Natural Mixed Pine	High Density Log	16.7	85	81-110	Steep hillsides, but should be accessible in spots. Old road found from south located about half way down the hill and heads northerly inside western edge of stand. Low bowl located in middle of stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4319 - Mixed Upland Forest	High Density Sapling	10.9	22		Part of "Schaaf Bluff Birch" sale # 18-89, cut in 1991.
17	42110 - Planted Red Pine	Medium Density Log	35.4	74	1-50	RP over aspen/pine mix. Mostly fully stocked saps. Residual pine from 1937 & 1940 plantings; "Aspen Mixed Well" sale #35-96, cut Nov/Dec, 1997.
18	42290 - Natural Mixed Pine	High Density Log	27.4	85	81-110	Buffer around Snowplow Lake. Eastern part of stand may have been planted (2-0 R, J, W) spring 1940.
20	4137 - Aspen, Birch	High Density Log	11.0	71		WB dying, some A dieback. Occasional beech and hemlock. ORV trail through middle of stand.
21	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	36.0	34		On the edge between sapling and pole size. Some residual RP/WP. Area cut over for aspen/birch in 1979-80; original planting of 2-0 JP, RP & WP in spring of 1937.
22	42290 - Natural Mixed Pine	High Density Log	6.7	85	81-110	Steep ridge for access.
23	42110 - Planted Red Pine	High Density Log	16.6	77	111-140	ORV trail through stand.
24	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	28.6	34		On edge between sapling and pole size. Some residual RP/WP from 1937 planting.
25	42290 - Natural Mixed Pine	Medium Density	2.4	16	1-50	Varying densities of residual and regen. Occasional hemlock. "Birch Ridge" sale #35-96 (Unit 2); regen started -- no scarification (FTP 42-471 cancelled). Smaller stand due to high BA of RP.
26	42110 - Planted Red Pine	Medium Density Pole	34.3	77	1-50	Variable BA residual. Variable regen. Stand harvested as "W. Ready Lake Pine", sale #023-06-01. Complete 6/19/08. FTP 42-676 for scarification, but no record of it being done. Regeneration check in summer 2012: JP = 90 WP = 270 RP = 180 Aspen = 108 BF = 180 TPA = 829.
27	42110 - Planted Red Pine	Medium Density Log	14.2	74	1-50	Variable RP residual BA. Good regen. "Ready Lake JP" Sale #2-98; FTP 42-493, scarified 8/2001. Original planting in Fall of 1940 with 2-0 R, W & J.
28	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	26.7	64	81-110	Pockets and scattered pole size A/WB. Planted in 1950 (2-0 RP & JP), some JP in portions of the stand picked out in sale #32-96 (cut in 1997). Occasional hemlock.
29	6126 - Lowland Jack Pine	Medium Density Pole	2.1	60		Low boggy pocket of JP/T/WP.
30	4193 - Birch, Aspen	High Density Sapling	19.2	27		Variable stand. Sale #54-85 Ready Lake Birch.
31	42260 - Natural Pine, Mixed Deciduous	Medium Density	31.8	12	1-50	RP/WP over A/JP. Occasional hemlock. "Ready Lake JP" Sale #2-98; FTP 42-493 -- Scarification completed 8/2001.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	429 - Mixed Upland Conifers	High Density Sapling	12.7	13		Sale # 32-96 cut Nov 2000. Very good red pine seeding (or planting?) in back half of stand. Scattered WP/RP residual (<10 BA).
33	42290 - Natural Mixed Pine	High Density Log	4.0	77	81-110	Small stand.
34	42200 - Natural White Pine	High Density Log	19.9	80	81-110	Buffer around Ready Lake.
36	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	402.6	31		Large stand cut over several years (1980-83) on timber sale #12-71A. On edge between sapling and pole size. Residual WP, RP and H scattered. Very diverse stand. Inclusion of stand on far eastern end that was cut through in 1986 (#42-85 Aspine #2). Not all species were cut resulting in pole size residual in areas.
37	429 - Mixed Upland Conifers	High Density Sapling	17.2	34		Heavier to softwood than surrounding stand. Cut in early '80's on timber sale #12-71A. On edge between sapling and pole size. Scattered remnant WP, RP and H.
38	42210 - Natural Red Pine	High Density Log	26.8	77	141-170	
39	42260 - Natural Pine, Mixed Deciduous	High Density Log	59.1	64	111-140	Part plantation, part natural. Variable stand. Occassional beech, but dying (BBD). RP & WP planted in 1950.
40	4130 - Aspen	High Density Sapling	7.2	6		Stand harvested as "7 Mile Mix", sale #42-026-06-01. Completed 6/6/08.
41	42200 - Natural White Pine	High Density Log	5.6	85	111-140	Sale # 45-91 (not much cut here)
42	4140 - Other Upland Deciduous	High Density Pole	8.4	76		Steep escarpment. Occassional beech, with beech scale present. Good to leave for diversity.
43	42110 - Planted Red Pine	Medium Density Pole	111.4	64	51-80	Variable density residual. Aspen repro in areas. Portion of stand planted with 2-0 R,J in 1950. Stand thinned as "7 Mile Mix", sale #42-026-06-01. Completed 6/6/08.
44	4133 - Aspen, Mixed Pine	High Density Sapling	5.8	23	1-50	Sale # 45-91 (most of pine overstory removed).
45	4133 - Aspen, Mixed Pine	High Density Sapling	28.4	28		"Ready Lake Aspen" sale # 43-85. Occassional oak.
46	4133 - Aspen, Mixed Pine	Medium Density	6.1	5	1-50	Adequate regeneration, but mainly aspen 8-12' tall. Variable density. Some residual RP and WP. Stand size shrunk from original FTP due to high BA.
47	4136 - Aspen, Mixed Conifer	High Density Sapling	26.3	28		Cut in 1986 Aspine #1 (#41-85).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4133 - Aspen, Mixed Pine	High Density Sapling	2.7	6	1-50	Two storied small stand. RP/WP over aspen. Nice thick aspen regen 10-20' tall. Stand harvested as "7 Mile Mix", sale #42-026-06-01. Completed 6/6/08.
49	42220 - Natural Jack Pine	High Density Sapling	3.7	21		Occasional RM or WB sprout. Sale #37-92 (3.2 acres) cut Summer '92 -- No FTP.
50	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Pole	41.3	64	81-110	Good variety of sizes - old logs, but mostly poles, and saps too. Occasional oak and birch. Pockets of aspen with pine. Some dead JP. Open understory. Pockets heavier to RP and pockets heavier to JP. 2-0 R, J planted spring 1950.
51	42210 - Natural Red Pine	Medium Density Log	38.8	100	81-110	Timber sale #53-85 - 1986 thinning. Thinned again in 2009 (Darrell's Red Pine #028-06-01). Regeneration survey conducted in 2014 - average trees/acre = 1928; average residual BA = 92 (range 60 - 130 BA). Part of stand not cut in 2009. ORV trail along 2 track for a bit, then too narrow for regular vehicle travel.
52	42110 - Planted Red Pine	High Density Log	57.5	64	81-110	Advanced WP regen of various sizes (3-5' and 10-20'). Areas of advanced RP regen (20' tall). JP seeding in spots on road. ORV trail runs thru north part of stand. Stand thinned as "Pudding Pine", sale #027-06-01. Completed 11/06/08.
53	42290 - Natural Mixed Pine	Medium Density Log	15.6	85	81-110	Mainly large dbh RP/WP with sapling sized regen. Part of 1978 timber sale (3-78A).
54	42140 - Planted Mixed Pine	High Density Log	48.0	64	111-140	RP of various sizes (4-16"). Old WP stumps evident. Old RR grade thru stand. Patches of heavier to JP, to mix of JP/RP. 2-0 R, J planted in 1950 - stand variable as to density and species.
55	42120 - Planted Jack Pine	High Density Pole	22.9	42		2-0 JP planted fall, 1972. Some older JP scattered within.
56	42220 - Natural Jack Pine	High Density Pole	26.0	31	1-50	Some areas of thicker regeneration than others. Residual RP and WP. On edge between sapling and pole size.
57	42110 - Planted Red Pine	High Density Log	41.8	64	111-140	Very variable dbh on RP. Some nice remnants, nice logs to sapling size. Old WP stumps evident. Variable densities with small semi-open areas. 2-0 RP & JP planted spring of 1950.
58	6122 - Black Spruce	High Density Pole	23.6	84		Pocket of WP logs included within stand. Stand is located at the bottom of a very steep bluff.
59	6122 - Black Spruce	Medium Density	25.2	80		Black spruce/tamarack lowland.
60	42210 - Natural Red Pine	High Density Log	90.7	85	111-140	Older RP/WP with 2-0 RP, JP planted in spring 1950. ORV trail through portion of stand.
61	42210 - Natural Red Pine	Medium Density Log	47.7	92	51-80	Stand thinned in 1978 (#3-78A). Shelterwood cut in 2009 (Darrell's Red Pine #028-06-01). Regeneration check conducted in 2014 - average trees/acre = 1071; average residual BA = 77 (range from 50 - 110 BA). Occasional WB.

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## Newberry Mgt. Unit

## Report 8 – Forested Stands

Compartment: 012  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>62</b>	42220 - Natural Jack Pine	High Density Pole	18.0	44		JP/S stand.
<b>63</b>	6122 - Black Spruce	High Density Pole	4.6	78		Low pocket of spruce.
<b>64</b>	6122 - Black Spruce	Medium Density Pole	3.5	78		Low pocket of spruce.
<b>65</b>	42220 - Natural Jack Pine	High Density Pole	17.1	34		
<b>66</b>	6125 - Lowland Black Spruce, Jack Pine	Medium Density	13.7	80		Black spruce/tamarack with scattered pine on slight ridges.
<b>67</b>	42220 - Natural Jack Pine	High Density Pole	21.6	34	1-50	Residual RP and WP as well as occassional oak.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	50 - Water	2.9	No	Unspecified	Schaaf Lake
8	622 - Lowland Shrub	2.4	No	Unspecified	Marsh around Schaaf Lake
16	623 - Emergent Wetland	7.7	No	Unspecified	Marshland around Snowplow Lake
19	50 - Water	1.9	No	Unspecified	Snowplow Lake
35	50 - Water	22.2	No	Unspecified	Ready Lake. Several trees were dropped into the lake for fish habitat in 2005 (FTP42-598).