



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42026

Entry Year 2017

Acreage: 1,638

County Luce

Management Area: Deer Park

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**Revision Date:** 2015-09-04

**Stand Examiner:** Amy Douglass

**Legal Description:**

T49N R10W Sections 19-22, 29 & 30

**Identified Planning Goals:**

To maintain and enhance forest health and diversity while incorporating recreational and wildlife concerns.

**Soil and topography:**

The majority of the compartment is rolling uplands on Rubicon sand. Other minor associated soils are Wallace sand; Carbondale, Lupton, and Tawas soils; and Croswell-Spot complex. The low bog areas are predominantly Dawson, Greenwood, and Loxley soils.

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

The compartment is wholly State owned lands. State lands surround most of the compartment with the exception of small private parcels on the north side of Perch Lake, and private parcels along the southern border. Larger ownerships include The Nature Conservancy, Escanaba Timberlands and Heartwood Forestlands.

**Unique Natural Features:**

MNFI has identified the potential for several species of threatened and endangered flora and fauna.

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

Site of the old Superior CCC Camp is located within the compartment.

**Special Management Designations or Considerations:**

The Two-Hearted River is designated as a Natural River with special management guidelines to follow. Some adjacent acreage is covered by a conservation easement.

**Watershed and Fisheries Considerations:**

Fisheries Values: Excellent

Fisheries Concerns: The Two Hearted River borders this compartment along its southernmost edge. The Two Hearted River is designated as a Natural River experiences runs of Steelhead and Chinook and Coho salmon and contains a resident native Brook Trout population. The Two Hearted River is one of the most popular fisheries in the Eastern Lake Superior watershed. All Natural River Plan best management practices should apply to any treatments considered along the river corridor.

**Wildlife Habitat Considerations:**

Compartment 26- This compartment is located 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 Two-hearted river makes up portions of the southern boundary of the compartment. The eastern portion of this compartment has excellent vegetative diversity and is comprised of red and white pine, aspen and birch stands, jack pine, upland hardwoods, and a bog component. There is oak throughout much of the compartment. The western portion is less diverse and is largely red, jack and scotch pine stands (slated to be removed). This compartment appears to have less red and jack pine than occurred during presettlement times and an increase in hardwoods, aspen, and white pine.

Hemlock, red, and white pine will be left in harvested upland deciduous stands to promote structural and habitat diversity of stands and retention and promotion of oak as a mast source will aid in achieving wildlife objectives. Likewise, conifer cover will be retained in aspen harvests. Wildlife travel corridors in this compartment should be abundant. Wildlife species likely to use this compartment include black bear, white-tailed deer, moose, gray wolf, fisher, marten, and otter and mink.

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

Surface sediments consist of lacustrine sand and gravel and minor end moraine of coarse-textured till. There is insufficient

data to determine the glacial drift thickness (~ >50 feet). The Cambrian Munising Group and Precambrian Jacobsville Sandstone subcrop below the glacial drift. The Jacobsville has been used as a building stone in the past. There are no gravel pits in the area, but there may be some potential. There is no economic oil and gas production in the UP.

**Vehicle Access:**

The compartment borders County Road 407, an all season road, and County Road 410, a good gravel road. Interior roads are mostly poor sand two-tracks.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

High Bridge State Forest Campground is located in the southwest corner of the compartment. The Two-Hearted ORV trail and snowmobile trail #8 cross the compartment.

**Fire Protection:**

The Compartment is part of the Two Hearted Zone Dispatch Area. The road and fire lane system provides adequate access for fire suppression activities. The scattered marsh, bog and lowland brush areas may impact fire suppression efforts. Private property in section 29 could be at risk because of continuous Jack Pine cover type in sections 29 and 30.

**Additional Compartment Information:**

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

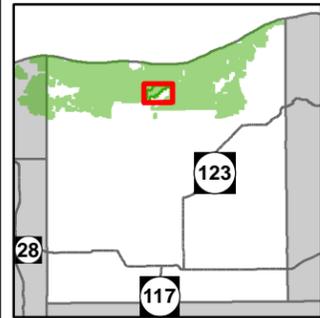
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

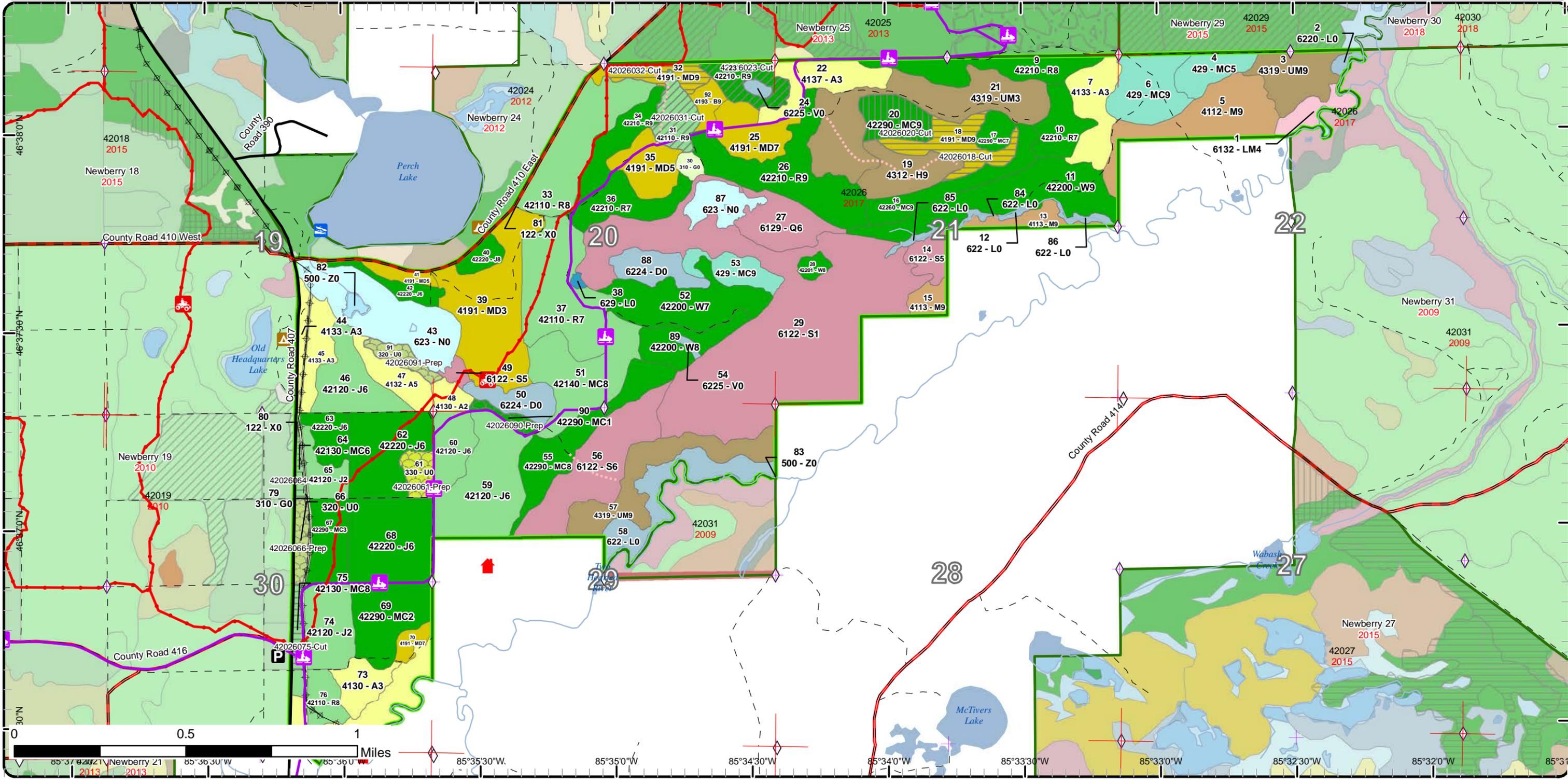
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

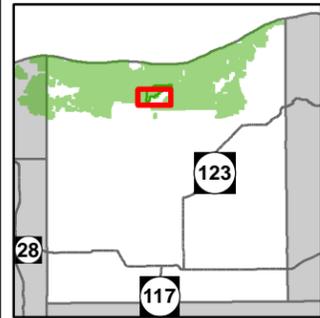
Compartment: 26  
 T49N R10W 19-22, 29,30  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2017  
 Acres: 1638 GIS Calculated  
 Examiner: Amy Douglass  
 Map Revised: 3/30/2016  
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- ORV Trails
- Snowmobile Trails
- ORV License & Trail Permit
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- Powerline
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- Site Prep
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- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
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- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forests
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- 613 - Lowland Mixed Forest
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- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

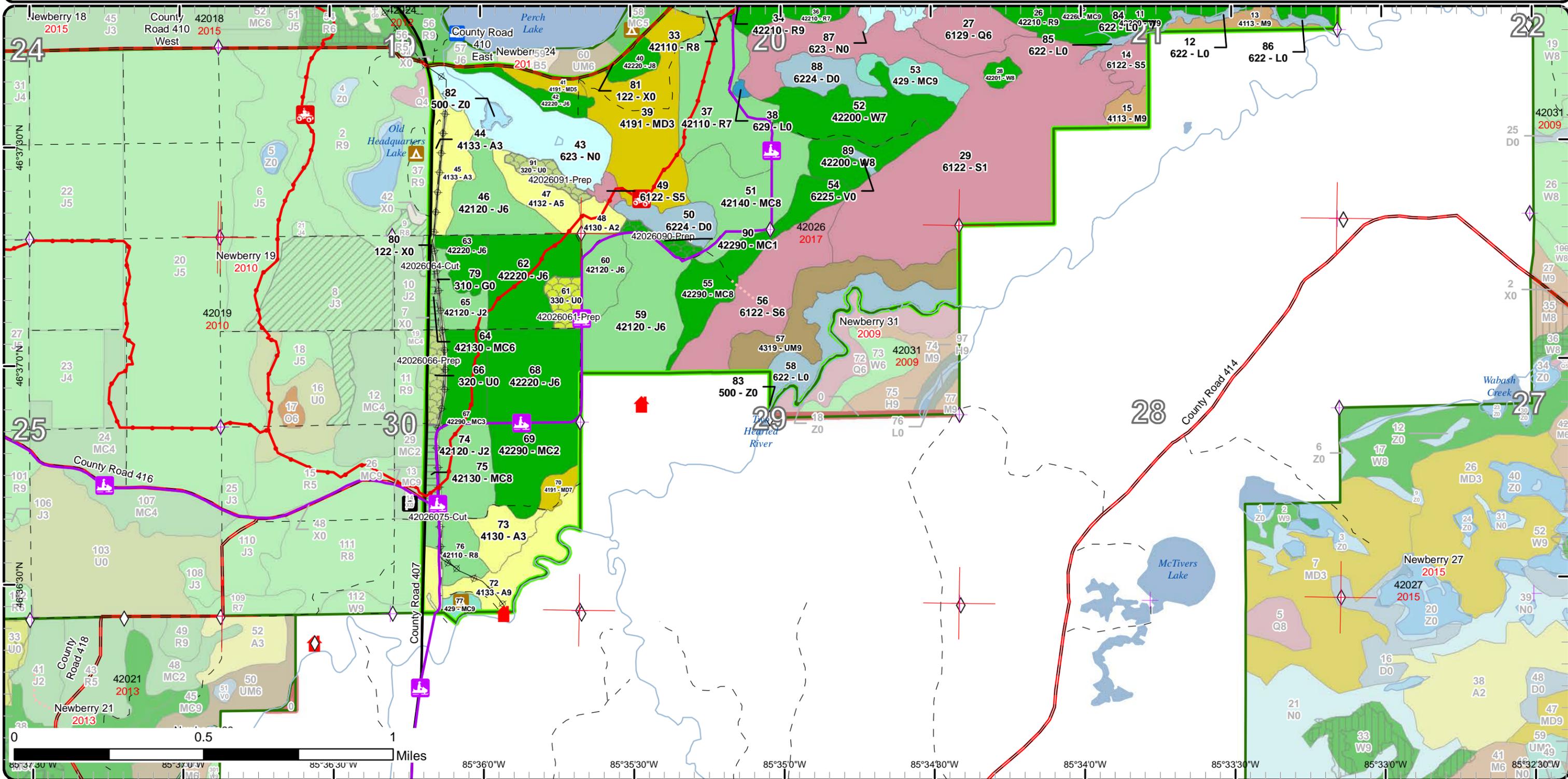


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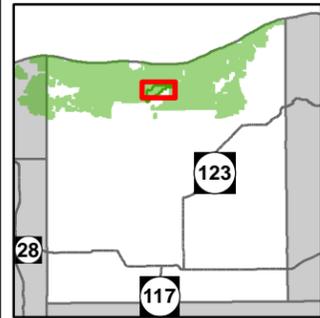
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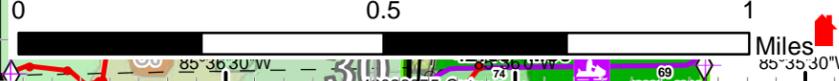
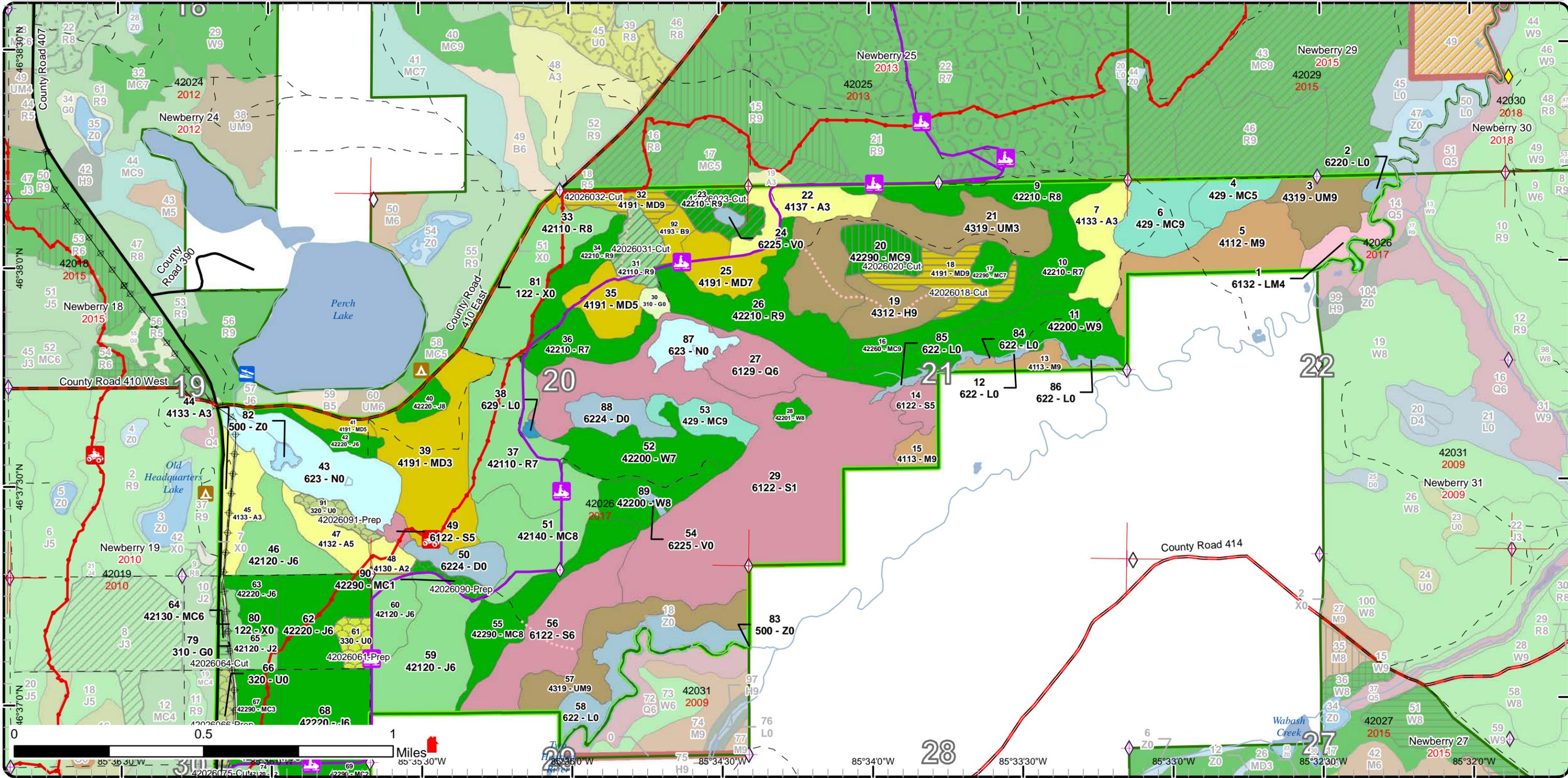


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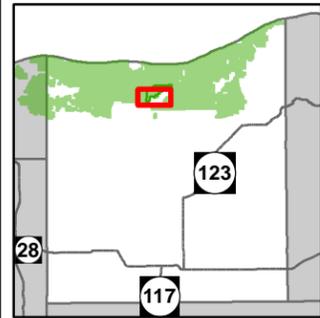
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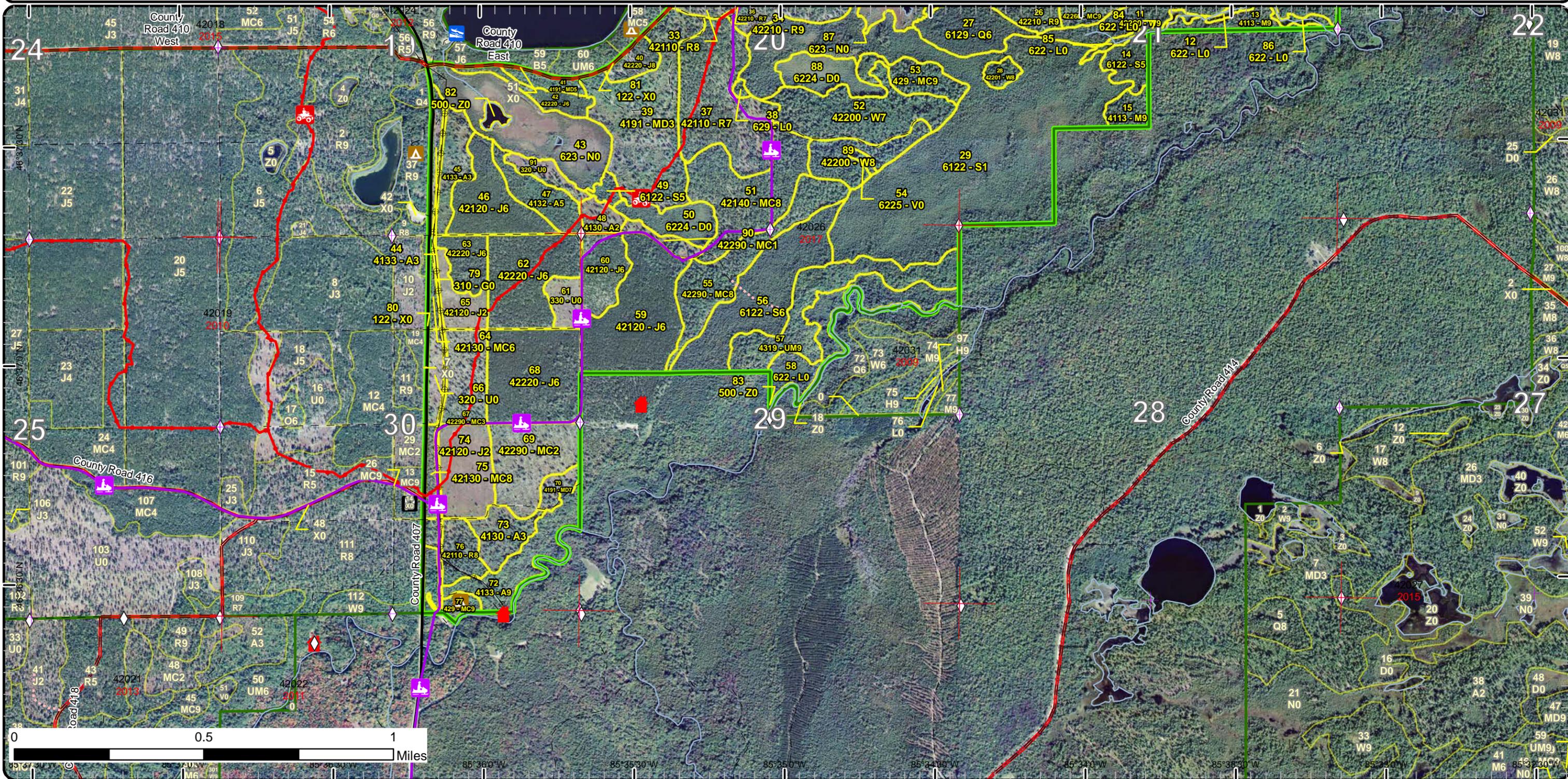
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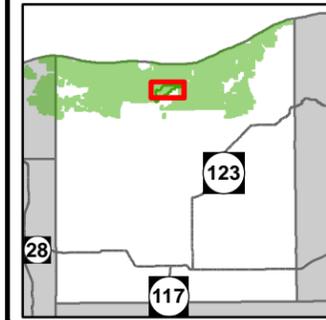


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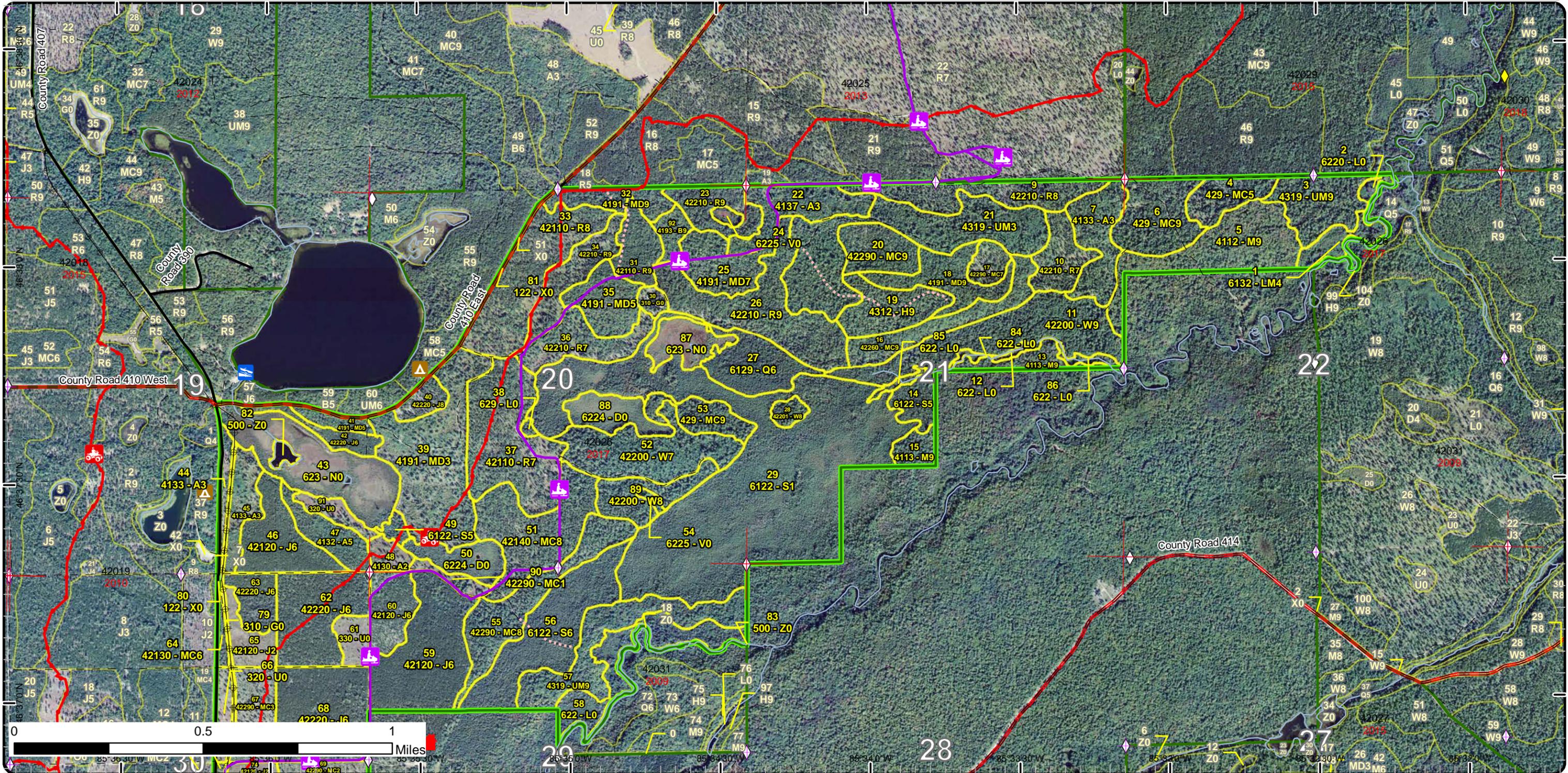


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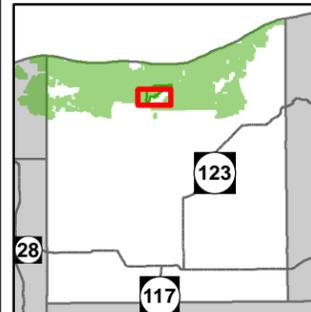


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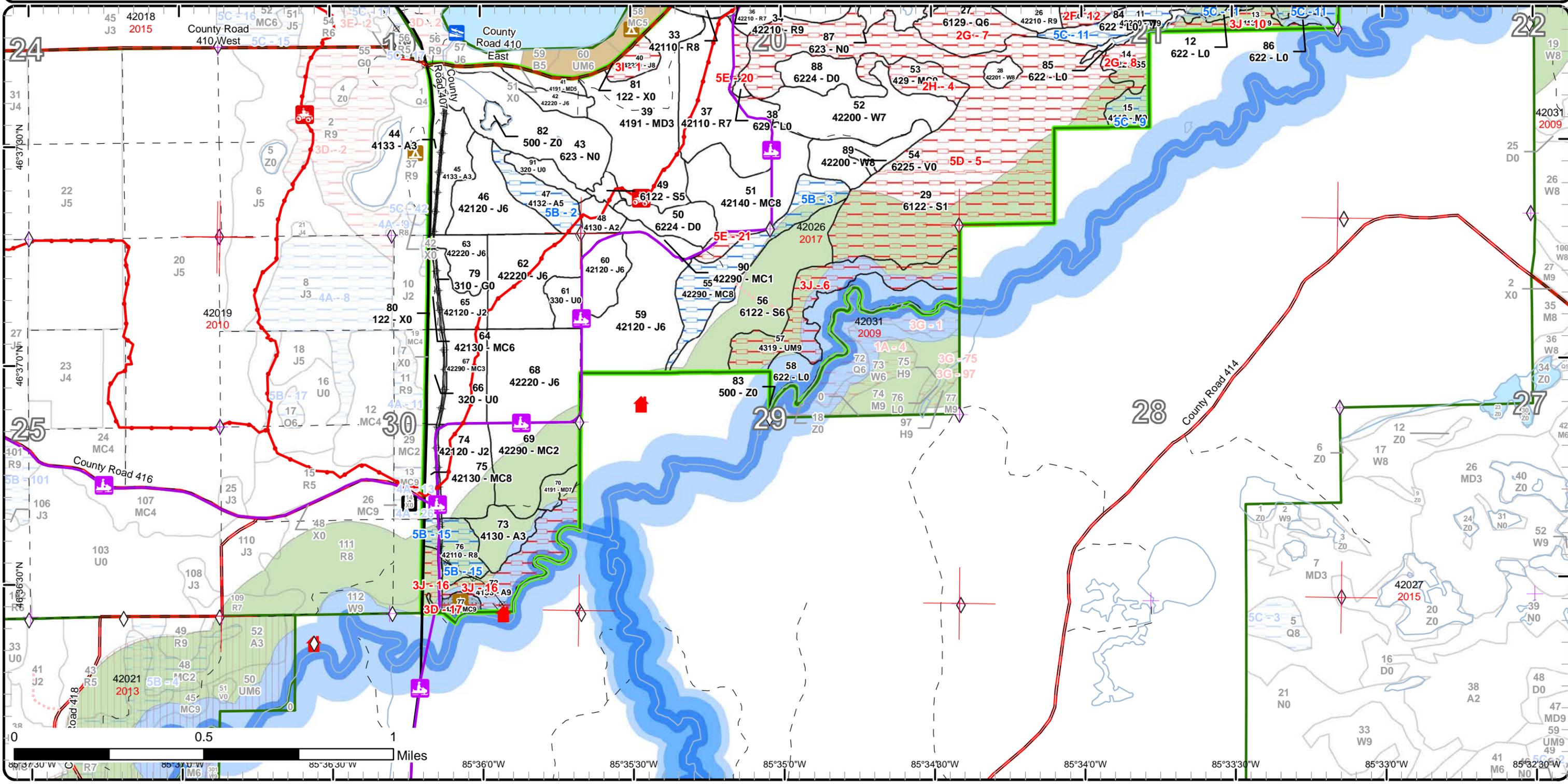


# Special Conservation Areas & Site Conditions Map

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|--|--|---|--|
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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
Aspen	0	23	54	0	0	13	0	0	26	0	0	0	0	0	0	0	0	0	116
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	32	0	15	117	40	0	6	0	0	0	0	0	0	0	0	0	0	210
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Lowland Mixed Forest	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Spruce/Fir	0	0	0	0	0	0	42	192	0	0	9	0	0	0	0	0	0	0	243
Marsh	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Mixed Upland Deciduous	0	0	55	0	5	0	0	19	23	12	0	0	0	0	0	0	0	17	131
Natural Mixed Pines	0	4	46	0	0	0	0	0	6	35	0	0	30	0	0	0	0	0	121
Northern Hardwood	0	0	0	0	0	0	0	0	0	37	0	15	0	0	0	0	0	0	52
Paper Birch	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Planted Mixed Pines	0	0	0	0	0	0	0	0	38	0	5	3	0	0	0	0	0	0	46
Red Pine	0	0	0	0	0	0	0	0	216	26	0	0	0	0	0	0	0	0	242
Treed Bog	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Upland Conifers	0	0	0	0	0	0	0	0	41	0	0	12	0	0	0	0	0	0	53
Upland Mixed Forest	0	0	0	57	0	0	0	0	0	0	0	22	0	0	0	0	0	33	112
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	0	35	0	15	50	0	0	0	0	0	0	100
<b>Total</b>	<b>160</b>	<b>59</b>	<b>155</b>	<b>72</b>	<b>122</b>	<b>53</b>	<b>0</b>	<b>73</b>	<b>577</b>	<b>119</b>	<b>41</b>	<b>111</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>69</b>	<b>1641</b>



## Report 2 – Treatment Summary

Newberry Mgt. Unit

Compartment 26

Year of Entry:

Acres of Harvest

Total Compartment Acres: 1,638

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

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Mixed Upland Deciduous	30	0	0	0	0	0	0	0	0	30
Natural Mixed Pines	0	0	0	0	15	0	0	0	0	15
Planted Mixed Pines	41	0	0	0	0	0	0	0	0	41
Red Pine	43	0	0	0	0	27	0	0	0	69
<b>Total</b>	<b>114</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>156</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	156	24	0	0	0	0	0	0	0	180
Next Step	0	114	124	0	76	90	269	0	0	674
<b>Total</b>	<b>156</b>	<b>139</b>	<b>124</b>	<b>0</b>	<b>76</b>	<b>90</b>	<b>269</b>	<b>0</b>	<b>0</b>	<b>854</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
18	42026018-Cut	18.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	66	Unspecified	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all species, but leave a component (not all) of white pine and red pine, to include larger diameter trees. Red pine BA may be low enough to leave all. Leave hemlock and a component of spruce and beech. Leave residual BA no higher than 10 - 30. Patch retention = 3%.

Specs:

Next Step

Treatments:

Acceptable Aspen, birch, white pine, red pine, oak.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

20	42026020-Cut	15.2	42290 - Natural Mixed Pine	Sawtimber Well	86	111-140	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Cut all species, leaving 30 - 50 BA of red and white pine.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable Red/white pine with aspen.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

23	42026023-Cut	14.3	42210 - Natural Red Pine	Sawtimber Well	81	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Thin red/white pine to approximately 120 BA. Leave oak and hemlock if they exist.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

31	42026031-Cut	12.6	42110 - Planted Red Pine	Sawtimber Well	76	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Thin to approximately 100 BA. Leave oak and trace species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016



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
32	42026032-Cut	10.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	87	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all species, leaving hemlock, oak and a component of white pine/red pine (including some large diameter pine). Leave pockets of advanced regeneration where they exist.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, birch, oak, white pine, red pine, jack pine											
<u>Regen:</u>											
<u>Other</u> There may be some steep areas to stay out of. Suggest leaving the retention pocket between 410 and the ORV trail, as shown on map. Evaluate											
<u>Comment:</u> at sale set up. Old next step comments:											
<u>Proposed Start Date:</u> 10/01/2016											
37	42026037-Cut	42.6	42110 - Planted Red Pine	Sawtimber Poor	76	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all trees, except oak. Leave retention in patch(es). The area on east side of the trail road/snowmobile trail will be left for retention, as shown											
<u>Specs:</u> on map.											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial											
<u>Treatments:</u>											
<u>Acceptable</u> Red pine, white pine, jack pine, oak, aspen											
<u>Regen:</u>											
<u>Other</u> ORV trail bisects the stand. This had previously been the stand boundary. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
51	42026051-Cut	33.9	42140 - Planted Mixed Pine	Sawtimber Medium	76	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all species except oak. Leave retention in patch(es). Leaving portion south of trail road for retention, as shown on map. Ridge features may											
<u>Specs:</u> be left for retention due to inoperability. Leave non-pine in red line for diversity.											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial											
<u>Treatments:</u>											
<u>Acceptable</u> Red pine, white pine, oak, aspen.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
61	42026061-Prep	7.2	330 - Low-Density Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Trench failed scarification site in preparation for planting to jack pine.											
<u>Specs:</u>											
<u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Jack pine, red pine, white pine, oak, aspen.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 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
64	42026064-Cut	2.8	42130 - Planted Scotch Pine	Poetimber Well	101	81-110	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

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

Prescription Cut all trees to eradicate scotch pine. No retention. Scotch pine should be chipped if possible.

Specs:

Next Step Treatments: SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Jack pine, red pine, white pine, oak, aspen

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

66	42026066-Prep	6.5	320 - Upland Shrub Scotch Pine	Nonstocked	0	Unspecified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Trench failed scarification site in preparation for planting to jack pine.

Specs:

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

Acceptable Regen: Jack pine, red pine, white pine, oak, aspen.

Other Comment: Old next step comments:

Proposed Start Date: 10/28/2015

75	42026075-Cut	4.6	42130 - Planted Scotch Pine	Sawtimber Medium	99	81-110	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Cut all species to eradicate scotch pine. No retention. Scotch pine should be chipped if possible.

Specs:

Next Step Treatments: SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Jack pine, red pine, white pine, oak, aspen.

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

90	42026090-Prep	4.5	42290 - Natural Mixed Pine	Sapling Poor	6	Immatu re	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Trench failed scarification site in preparation for planting to jack pine.

Specs:

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

Acceptable Regen: Jack pine, red pine, white pine, oak, aspen.

Other Comment: Old next step comments:

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
91 42026091-Prep	6.2	320 - Upland Shrub	Nonstocked	0	Unspecified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Trench failed scarification site in preparation for planting to jack pine.

Specs:

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

Treatments:

Acceptable Regen: Jack pine, red pine, white pine, oak, aspen

Other Comment:

Old next step comments:

Proposed Start Date: 10/28/2015

**Total Treatment Acreage Proposed: 180.2**

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 26  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		5B	5C	5F	2F	2G	2H	3D	3I	3J	5D	5E
115	76	13	26	Aspen	13								26		
3	3	0	0	Bog											
19	19	0	0	Hemlock											
10	10	0	0	Herbaceous Openland											
210	204	0	6	Jack Pine								6			
7	7	0	0	Low-Density Trees											
21	0	0	21	Lowland Conifers					21						
9	0	0	9	Lowland Mixed Forest								9			
34	34	0	0	Lowland Shrub											
242	45	0	197	Lowland Spruce/Fir					9					189	
54	54	0	0	Marsh											
130	94	35	1	Mixed Upland Deciduous			35								1
121	71	30	20	Natural Mixed Pines	30			20							
52	37	6	8	Northern Hardwood		6						8			
6	0	6	0	Paper Birch	6										
45	41	0	4	Planted Mixed Pines											4
243	228	12	4	Red Pine	12										4
25	25	0	0	Treed Bog											
53	0	37	16	Upland Conifers			37			12	3				
112	57	22	33	Upland Mixed Forest			22						33		
13	13	0	0	Upland Shrub											
5	5	0	0	Urban											
9	9	0	0	Water											
100	54	46	0	White Pine		46									
1,638	1,087	207	345	Total Forested Acres	61	52	94	20	29	12	3	6	76	189	9
	66%	13%	21%	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	3I: Historical / archeological (add locked comments)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 26  
Year of Entry: 2017

2	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	12	5E: Long-Term Retention	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							
5	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	189	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	34	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 26  
Year of Entry: 2017

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Falls within Natural River corridor. Too small to treat otherwise.							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small stand with gullies to feeder stream to Two-Hearted River.							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Majority of stand falls within 1/4 mile of Two-Hearted River Natural River corridor.							
12	<b>Unavailable</b>	<b>2F: Too steep</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> May be able to harvest small portions with adjacent stands, but is too steep for the most part.							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 26  
Year of Entry: 2017

14	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	26	2F: Too steep	1A: Federal/State/Local Law	Unspecified	Unspecified
<b>Comments:</b> Within Two-Hearted River Natural River corridor.							
17	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	3	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High Bridge Campground. Within the Two-Hearted River Natural River corridor.							
18	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> General vicinity of possible retention pocket.							
20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible location for long term retention.							

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Amy Douglass : Examiner

Compartment: 26  
Year of Entry: 2017

21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Possible location for long term retention.</p>							
22	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	59	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Evaluated for SBW.</p>							
23	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Evaluated for SBW.</p>							



### 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>High Bridge State Forest Campground</b>	Concentrated Recreation Area	State Forest Campground	<b>Proposed SCA</b>	3
<b>Comments</b>				
High Bridge State Forest Campground				



**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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	8.6	81	Unspecified	Low stand which borders the Two-Hearted River (HCVA). Portions of stand are steep sidehills with small balsam fir, pole-sized (and some larger) red maple and paper birch, dropping into river bottomlands with tagalder, spruce and cedar.
3	4319 - Mixed Upland Forest	Sawtimber Well	21.6	105	81-110	Variable stand. White birch and aspen dying back. Some white spruce dying also. Low quality red maple. Large diameter red and white pine within with heavy fir understory. Stand falls under Two-Hearted Nat'l River guidelines for management (HCVA).
4	429 - Mixed Upland Conifers	Poletimber Medium	12.6	77	1-50	Mostly open grown, limby trees. Large white pine, spruce with some red pine. Seeding in over the years with pole size white pine, spruce and aspen. Access to stand is via firelane, with steep gradient - would require major road work to access timber for harvest.
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	36.8	86	81-110	Stand was marked and put up for sale in 1997 as #03-97 "Perch Lake Hardwoods" - sale never sold. Yellow paint is still visible in 2015! Beech has mostly died out and fallen over. Poor quality red maple. Occasional yellow birch. Good regeneration of beech in understory, as well as balsam fir. Some co-dominant white pine within. At stand edges, there is more of a paper birch/aspen component. East end of stand would fall under the Two-Hearted Nat'l River Plan (HCVA).
6	429 - Mixed Upland Conifers	Sawtimber Well	24.7	76	81-110	Patches heavy to RP, mainly on north end. Open-grown stand from the late 1930's; larger white pine is heavily weeviled.
7	4133 - Aspen, Mixed Pine	Sapling Well	20.7	16	Immature	Very hilly. Majority of stand sits on a high ridge and slopes downward on all sides. Skid trails within stand; main roads below hills. T. sale #19-97 "Ridge High Aspen", cut Nov - Dec, 1998. Red and white pine were left - also, some hemlock is present.
9	42210 - Natural Red Pine	Sawtimber Medium	24.5	76	51-80	Stand runs along snowmobile trail route. There is a component of larger, older red pine within from pre-1930's logging. Some of the stand appears to have been planted, although there is no record of this. This may have occurred, though, since entire 40's to the north were planted in 1940. Several ridges to contend with. Inclusion of small bog stand. Stand harvested as "Ridgeline Pine", sale #026-07-01. Complete 12/08/09. Regeneration survey in 2014 (trees/acre): RP-245, WP-391, A-391, RM-758, S-196, RO-49, JP-49.
10	42210 - Natural Red Pine	Sawtimber Poor	14.0	75	1-50	Stand harvested as "Ridgeline Pine", sale #026-07-01. Complete 12/08/09. Cannot find FTP (42-703) for this sale. Does not appear to have been scarified. Only noticed 1 JP seedling in walk through. A few areas with no regeneration. Regen check in 2014: 1791 TPA - aspen (948), red maple (316), white pine (263), oak (105), spruce (105) and red pine (52).
11	42200 - Natural White Pine	Sawtimber Well	46.2	101	111-140	Heavier understory and more hardwood on East half of stand. OPIC - FMD: Primarily a nice, tall patch of white pine (~ 65-70' heights), although some red pine is present. Along uphill slope line (north boundary of stand), there is a component of oak, M and PB. Farthest west end of stand transitions into more spruce as ground gradually slopes into V/D type. The east end of the stand would fall under the Two-Hearted Nat'l River guidelines (HCVA).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4113 - R.Maple, Conifer	Sawtimber Well	8.4	106	111-140	Stand contains beech and white birch snags. Some beech still alive, but most have died and fallen down. Large diameter, poor quality wood. Small hardwood stand across drainage - falls under Two-Hearted Nat'l River guidelines (HCVA). Stand adjoins private lands of two separate owners, and an open-ended "pipe" was found in the ground, just off trail road fork, which would be the approximate property line.
14	6122 - Black Spruce	Poletimber Medium	8.5	101	Unspecified	Stand feeds directly into D/V type and is very wet. Two-Hearted plan guidelines (HCVA) - extreme south tip of stand only.
15	4113 - R.Maple, Conifer	Sawtimber Well	6.3	106	111-140	Small hardwood stand across drainage - falls under Two-Hearted Nat'l River guidelines (HCVA). Lower quality red maple with hemlock, and hemlock regeneration present, in places. Misc. spp. include: beech, cedar, white pine, aspen. Stand adjoins private corporate lands, and this would be the only access to the stand. The corporate lands have been thinned previously.
16	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	19.9	84	111-140	Stand encompasses a ridgeline and side slope to the south, which is fairly steep, in places. Will be a difficult stand to harvest.
17	42290 - Natural Mixed Pine	Sawtimber Poor	6.3	76	1-50	Stand is located in a depression/frost pocket. Stand harvested as "Ridgeline Pine", sale #026-07-01. Complete 12/08/09. Scarification of site yet to be done as of 01/26/10. Cannot find FTP (42-703) for this sale. Does not appear to have been scarified. Regeneration survey in 2014 (trees/acre): WP-514, RM-342, RO-171.
18	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	18.9	66	Unspecified	Variable stand. Occasional spruce, oak and hemlock.
19	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	19.2	171	51-80	Beech mostly dead and fallen over. Some still hanging on. Hemlock of varying sizes (saplings to 28"+ dbh). Low quality hardwoods. Lots of downed woody debris. Occasional WB and YB. Stand was previously set up as "Perch Lake Hardwoods" sale # 03-97, but was never cut. Red painted sale boundary lines, and yellow marked to cut trees, are still visible. A couple of 40" + WP were observed.
20	42290 - Natural Mixed Pine	Sawtimber Well	15.2	86	111-140	Stand encompasses a depression/frost pocket, especially on the west end. East end of stand contains more WP. Large, remnant RP and WP throughout.
21	4319 - Mixed Upland Forest	Sapling Well	56.6	23	Immature	Mix of species - variable throughout. Pockets/individuals of white pine, red pine and hemlock. T. sale # 13-90 "East Snow Birch" - cut as of 10/1992.
22	4137 - Aspen, Birch	Sapling Well	21.0	18	Immature	TS# 11-97-01 "Birch Curve" sale - cut 8-97. Red and white pine, and hemlock were left. The snowmobile trail runs through, and along the north boundary, of the stand.
23	42210 - Natural Red Pine	Sawtimber Well	14.3	81	141-170	Stand is along sloping ground around marsh depression. Large 20+" dbh RP and WP present. Occasional hemlock. Some steep slopes. Variable BA and understory. Old charred WP stump remnants within; west portion of stand is heavier to WP.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	18.2	76	1-50	Most beech had died and fallen over. Many patches of advanced regeneration from holes. Diverse stand. Very low quality - lots of twisted, large diameter stems. Most of the PB is old and dead/dying also. The snowmobile trail bisects the stand.
26	42210 - Natural Red Pine	Sawtimber Well	43.6	76	111-140	Stand was set-up as T. sale # 52-97 "Red Ridge Pine", which was never sold (no red pine was marked to cut, only misc. spp removal planned - too thick for that). Most of the southern boundary of stand is along a S/SW facing slope, and will make for difficult treatment. Old road follows the bottom of this side hill/edge of low ground. Some large, remnant RP and WP within stand. East N-S finger has lower RP Ba and more understory of RM and Fb.
27	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	20.7	96	Unspecified	Wet stand feathering into surrounding V/D type. Large, remnant white pine found occasionally in stand. Older cedar over balsam, spruce and tamarack.
28	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	3.5	101	81-110	Stand is island out in treed bog/marsh.
29	6122 - Black Spruce	Sapling Poor	188.7	71	Unspecified	Some spruce, tamarack and cedar. HCVA - Two Hearted mgmt plan.
31	42110 - Planted Red Pine	Sawtimber Well	12.6	76	111-140	Planted S, 1940 with 3 - 0 R and 2 - 0 W,J. "Perch Lake Pine" sale #002-97-01 - sale never sold. Old yellow and red paint still visible, in places. The snowmobile trail runs through the stand.
32	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.8	87	51-80	Old road access from snowmobile trail north to ORV trail, and continues north into next compartment. Some side slopes may be difficult to log. Beech component has dies out and fallen ver. Birch is dying. Aspen is of age to cut. Some larger WP and RP present. Stand runs along north-facing slope. The ORV trail runs along the north stand line.
33	42110 - Planted Red Pine	Sawtimber Medium	40.1	76	1-50	Stand harvested in 2008 "Schook Drive Pine" #011-07-01. Regeneration survey in 2012 (trees/acre): RP-86, WP-68, JP-24. Stand contains two different original planting years: N1/2 of stand was planted S, 1940 with 2 - 0 J,W and 3 - 0 R; S1/2 planted F, 1949 with 2 - 0 R,J. The ORV trail runs along a portion of the east stand boundary.
34	42210 - Natural Red Pine	Sawtimber Well	16.6	76	1-50	Good JP regen in areas. Semi-open areas mostly JP, but pockets of aspen/maple/oak. Pockets of residual RP logs - not much different than adjacent stand (just bisected by ORV trail). Variable stand. Majority of stand is in a bowl. Sale #10-97-01 "ORV Trail Jack Pine". Harvest completed 1/00. Some residual red and white pine were left, per OI instructions. FTP42-480: scarification completed 8/01 and regeneration check was completed 2004 with stocking of 1,249 t/ac. Stand boundary runs along ORV trail.
35	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	16.9	76	1-50	Sale #002-97-01 "Perch Lake Pine", set up but never sold. Old yellow paint still visible. Beech is dead and fallen over. Birch is dying. Thick understory. Occasional WP and RP. There is so much dead now that it would be difficult to cut. The snowmobile trail runs through the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	42210 - Natural Red Pine	Sawtimber Poor	19.0	76	51-80	Portion of the stand (W. end) planted F, 1949 w/2 - 0 R,J. ORV and snowmobile trail influence. Remove jack pine and thin red pine, where needed. Stand harvested via shelterwood as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Regeneration check in 2014 (trees/acre): RO-913, A-314, RM-400, Fx-143, WP-57 and S-57.
37	42110 - Planted Red Pine	Sawtimber Poor	46.5	76	51-80	Planted S, 1940 with 2 -0 W,J and 3 - 0 R. Stand is influenced by both ORV and snowmobile trail. Fairly steep terrain, in places. Stand harvested as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Scarification completed 2010 by Holli FTP 42-702. Regeneration check in 2014 (trees/acre): RP-184, WP-396, RO-606, RM-474, A-422, JP-53. Regeneration looked poor during current survey.
39	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	54.8	14	Immature	Nice diverse stand! Sale# 009-97-01 "Dragging Otter Jack Pine" completed 2000 (a combination of 3 different stands last entry). FTP42-478: scarification completed 8/2001 with regeneration check done 5/04. Stocking of 1,939 t/ac of mixed regen. Continue to manage for mixed species diversity. Some oak and white pine residual within the stand, and associated reproduction is present.
40	42220 - Natural Jack Pine	Sawtimber Medium	6.3	68	1-50	SCA = Site of CCC "Superior Camp" site. Sand and reindeer moss with little grass. Small PB clumps within as well as some older R,W. Limby jack and white pine. On the old 1939 aerial photos, building complex (at least 15 bldgs) can be seen.
41	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.8	34	1-50	Older stand is being replaced by younger stand. Aspen, white pine red maple white birch, red pine saps looking good. Some jack pine and aspen could be cut, but so little quantity. Small roadside stand of aspen, paper birch, maple and beech - both birch and beech are dying. Low quality and small diameters - best left for visual purposes along County Road.
42	42220 - Natural Jack Pine	Poletimber Well	8.0	40	Unspecified	Stand was harvested in 1974 (T.sale # 8-74A) and scarified 6/75 (# 113/l-7) Possibly planted.
44	4133 - Aspen, Mixed Pine	Sapling Well	4.8	6	Immature	Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. All paper birch and red/white pine left for visual purposes. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907. Patchy aspen regeneration.
45	4133 - Aspen, Mixed Pine	Sapling Well	12.2	15	Immature	Stand was harvested in 1999 under sale #14-97 "407 Jack Pine" (Unit 1). FTP42-479: scarification completed 11/00, and regeneration check in 5/04 indicated stocking of 1,713 t/ac (mixed). More of an aspen stand to the north with pine throughout. Some RP as seedlings under the aspen.
46	42120 - Planted Jack Pine	Poletimber Well	23.8	39	Unspecified	Thick regeneration. Just coming into pole size. Stand harvested in 1974 (#8-74A) and scarified 6/75 (# 113/l-7). Regeneration check in '77 indicated 118 t/ac. Machine planting completed F, 1977 with 2 - 0 J, and hand replant? F, '78 (C42-3) in between furrows, due to bad planting stock.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4132 - Aspen, Jack Pine	Poletimber Medium	12.9	49	Unspecified	JP/WB/A on southeast corner. Most of stand is aspen (with other species) on edge between pole and sapling size. Sale # 2-65? Stand slopes towards marsh type. Heavier aspen regeneration on sidehill (~ 2" dbh and 24' tall). Some white pine and oak regen present in the understory. The ORV trail crosses stand at the south end.
48	4130 - Aspen	Sapling Medium	5.5	6	Immature	The ORV trail crosses stand. This part of cutting has regenerated best, mainly to aspen. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584, Aspen=222, RP=81, WP=20 TPA = 907
49	6122 - Black Spruce	Poletimber Medium	2.9	76	Unspecified	Small spruce stand connecting two bog stands, with ORV trail running through (corduroy planking bridge present).
51	42140 - Planted Mixed Pine	Sawtimber Medium	37.9	76	51-80	Stand has quite a bit of variability; along snowmobile trail route, stand contains more mixed red pine. Some planted pine within SESW of section 20 (S, 1940). Stand harvested via shelterwood as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Regeneration check in 2014 (trees/acre): RO-457, WP-431, A-152, RM-101, RP-76, JP-25, S-177.
52	42200 - Natural White Pine	Sawtimber Poor	34.7	76	1-50	Stand part of "Long Ridge Aspen" sale, #16-97-01. Cutting completed 8/98 - 9/98 (Units 2 and 3). No pine marking was done with sale harvest. Stand still contains a mixed pine overstory.
53	429 - Mixed Upland Conifers	Sawtimber Well	12.2	101	51-80	Stand has quite a bit of variability.
55	42290 - Natural Mixed Pine	Sawtimber Medium	29.9	111	51-80	Part of "Long Ridge Aspen Sale" #42-016-97 (unit 1), which was harvested in the summer, 1998. No pine was prescribed for cutting, so residual is quite thick, in places. Manage for both species for now. Steep side hill down to spruce not cut - has numerous residual aspen. Good full regeneration under pine - mostly aspen.
56	6122 - Black Spruce	Poletimber Well	42.3	69	Unspecified	Old road bisects stand and splits to run along far edges. Road is in decent shape for first half, then turns into strictly a winter road. Evidence of harvesting in field and from old photos. Stand falls under Two-Hearted Nat'l River guidelines (HCVA).
57	4319 - Mixed Upland Forest	Sawtimber Well	33.5	106	111-140	Stand falls under the Two-Hearted Nat'l River guidelines (= HCVA). Ridge of overmature timber, with no access except through low swamp. Aspen and birch are dying, and being replaced in understory with 3-4" dbh red maple saplings, and heavy balsam fir along stand edge. Lots of blowdown already within interior. Steep ravines cut drops down into river valley. Leave stand untreated.
59	42120 - Planted Jack Pine	Poletimber Well	43.4	39	Unspecified	Just growing into pole size. Scotch pine generally smaller dbh. Occasional large white pine and red pine on north end. Stand was cut in 1972 (sale #14-72A?), scarification 8/73 (#91/V-3). Regen count = 325 t/ac. Planting done S, '77 (6x8) w/ 2 - 0 J, and interplant by hand F, '79 w/ 2 - 0 scotch (#42-53) by YACC crew. Trees are now ~ 25-30' tall. The snowmobile trail runs along stand boundary.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	42120 - Planted Jack Pine	Poletimber Well	14.6	22	Immature	T. sale # 25-87-02 "Headquarters Lake" sale - cut 1987-88. FTP 42-217: scarification completed 10/88, and a regen count was completed 5/6/92 with 0 t/ac. FTP 42-311 written for JP planting (2 - 0 stock) - 906 t/ac were planted 5/94 and regen count done in 8/98 = 425 t/ac. Stand has filled in more since regen count. Some oak, scotch pine, PB, and A present.
62	42220 - Natural Jack Pine	Poletimber Well	32.3	42	Unspecified	Occasional scotch pine. T. sale # 14-72A - cut August-Oct., 1972. Scarification completed 8/73 (FTP # 91/V-3). Some Oak, PB and red maple within. The ORV trail runs through the entire stand.
63	42220 - Natural Jack Pine	Poletimber Well	10.6	33	Immature	On edge between sapling/pole. Scattered scotch pine logs throughout stand (riddled with sapsucker holes). Scarification complete in 1981 FTP 42-94 (Sale #50-79A. Stand removed in preparation for scotch pine fertilization project).
64	42130 - Planted Scotch Pine	Poletimber Well	2.8	101	81-110	Stand planted in 1915 with R, Scotch pine and 1916 with J,W. I3 understory is ~ 3-4" dbh. Two-storied stand - older, large, remnant scotch pine with younger poles. Road snakes through stand instead of under power line.
65	42120 - Planted Jack Pine	Sapling Medium	9.9	6	Immature	Trenched and planted (FTP 42-690). JP 2-4'tall. Scotch pine 4-10' tall. Stand harvested as "High Bridge Patches", sale #101-07-01. Completed 5/29/08. Planted to JP in spring 2009. Replant in spring 2011. Regeneration check summer 2012: JP = 629 TPA = 629.
67	42290 - Natural Mixed Pine	Sapling Well	17.6	15	Immature	Regen 10-20' tall. Residual WP and RP. T. sale #14-97, "407 Jack Pine" - harvested 10/99. FTP 42-479 - scarification completed 11/00 and a regeneration check 5/2004 = 1,713 t/ac.
68	42220 - Natural Jack Pine	Poletimber Well	39.4	38	Unspecified	Just growing into pole size. Occasional scotch pine. Thick stand. T/sale # 13-76A, cut summer, 1976. Scarification completed 7/1977 (FTP C-145).
69	42290 - Natural Mixed Pine	Sapling Medium	27.6	15	Immature	OPIC - FMD: TS# 013-97 "High Bridge Jack Pine" - harvested 10/99. All red and white pine were left (approximately 10-20 BA). FTP 42-477 for scarification completed 11/00 and a regeneration check was completed 5/2004 = 533 t/a. Stand falls under Two-Hearted plan (HCVA).
70	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	4.6	75	1-50	RP, WP and oak left from cutting. Scattered scotch pine volunteers also. Would like to see more regen but may fill in over time. Semi-open stand. Lots of oak seedlings! Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584, Aspen=222, RP=81, WP=20 TPA = 907. The stand falls within the Two-Hearted Nat'l Rivers guidelines for management (HCVA).
72	4133 - Aspen, Mixed Pine	Sawtimber Well	25.6	76	Unspecified	Variable stand. Pockets of pine as well as scattered individuals. Stand falls within the Two-Hearted Natural River plan boundary (HCVA). Lots of large, overmature aspen, paper birch - dead/dying. Steep slope to river. Powerline runs through stand, as well as poor dirt trail road which accesses private land.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	4130 - Aspen	Sapling Well	12.0	8	Immature	Nice aspen regeneration. Scattered WP, RP and WS log/pole and WB. Stand affected by Two-Hearted Natural River guidelines (HCVA) when harvest boundaries were placed. Although MO=A, long term management would be better as red or white pine (due to proximity of river and potential beaver prbs); maintaining diversity of species within the stand will still be desirable, though, so some aspen clones should still be encouraged to regenerate. 1997: Stand harvested as "High Bridge Patches", sale #101-07-01. Completed 5/29/08. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907.
74	42120 - Planted Jack Pine	Sapling Medium	21.8	6	Immature	Trenched and planted (FTP 42-690) spring 2009. A few WP poles left standing. West edge has scotch pine volunteers. JP 3-5' tall. The ORV trail runs through this stand. 1997: Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Regeneration survey summer 2012: JP = 629 TPA = 629. Replant east 1/2 spring 2011.
75	42130 - Planted Scotch Pine	Sawtimber Medium	4.6	99	81-110	Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Summer 2012: JP = 629 TPA = 629. All species except scotch pine has been cut. Scotch pine readily seeds everywhere! Numerous volunteers. Planted F, 1917 with 2 - 0 Scotch pine and 1 - 0 JP. Stand falls along county road influence, as well as adjacent to ORV trail staging area and snowmobile trail route.
76	42110 - Planted Red Pine	Sawtimber Medium	12.0	82	51-80	NW corner doesn't have much in the way of understory, but more aspen is encountered as you head south throughout the stand. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907. Stand was originally planted F, 1934 with 2 - 0 R, J. Falls under Two-Hearted River guidelines (HCVA).
77	429 - Mixed Upland Conifers	Sawtimber Well	3.4	79	111-140	Stand encompasses High Bridge State Forest Campground and also is bounded by the Two-Hearted River, which falls under the natural rivers guidelines (HCVA). No harvest recommended, although removal of a few hazard trees will need to occur from time to time. Some damage to trees noted due to campers (nails, hit with vehicles, etc.) Old original road crossing footings still present at river.
89	42200 - Natural White Pine	Sawtimber Medium	15.4	93	51-80	Stand is more of a white pine type, with ridges and rolling topography, than adjacent pine stand to the west. Stand harvested via shelterwood as "CCC Camp Pine", sale #015-07-01. Complete 10/5/09. Regeneration check in 2014 (trees/acre): WP-783, RM-783, A-269, Fs-196, S-73, RO-49.
90	42290 - Natural Mixed Pine	Sapling Poor	4.5	6	Immature	RP, WP, WB residual. Aspen approx. 10' tall. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584,Aspen=222,RP=81, WP=20 TPA = 907. The snowmobile trail runs along portion of stand boundary.
92	4193 - Birch, Aspen	Sawtimber Well	5.8	63	51-80	Beech component dead and fallen over. WB dying. Not as much pine as to the north. Variable stand of variable sizes. Patches to cut, but many patches of 6" timber to wade through.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6220 - Alder/willow	2.0	Yes	Low stand which borders the Two-Hearted River (HCVA). Includes old oxbow.
12	622 - Lowland Shrub	1.1	Yes	Low drainage (currently with standing water, flooded timber) with some cedar, spruce and tag alder. Two-Hearted plan (HCVA).
24	6225 - Bog	1.9	Yes	Marsh depression which contains leatherleaf, grass, and blueberry.
30	310 - Herbaceous Openland	3.2	Yes	Open area wit pockets of RP logs and scattered JP. Spruce saplings growing along timbered edges.
38	629 - Mixed non-forested wetland	0.9	Yes	Small stand, which is an extension of the adjacent treed bog type. There is a small quantity of J2/B2 present where the ground periodically dries.
43	623 - Emergent Wetland	42.2	Yes	
50	6224 - Treed Bog	12.4	Yes	
54	6225 - Bog	1.4	Yes	Small leatherleaf marsh pocket within pine ridges.
58	622 - Lowland Shrub	24.2	Yes	HCVA= Two-Hearted Nat'l River.
61	330 - Low-Density Trees	7.2		Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584, Aspen=222, RP=81, WP=20 TPA = 907. Not that many TPA during 2015. 1 RP, 6 WP and WB residual.
66	320 - Upland Shrub	6.5		Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Red pine (planted in 1934), left as residual for visual and seed source. Scarification completed august 2009 FTP 42-689. Regeneration check summer 2012: JP = 584, Aspen=222, RP=81, WP=20 TPA = 907. Scotch pine saplings along east edge, lining road.
79	310 - Herbaceous Openland	6.8	Yes	Power line and trail road.
80	122 - Road/Parking Lot	3.2	Yes	County Road 407 and it's R.O.W.
81	122 - Road/Parking Lot	1.8	Yes	County Road 410.
82	500 - Water	2.2	Yes	
83	500 - Water	7.1	Yes	HCVA= Two-Hearted Nat'l River.



Stand	Cover Type	Acres	Managed Site	General Comments:
84	622 - Lowland Shrub	1.3	Yes	Low drainage with some cedar, spruce and tag alder. Two-Hearted plan (HCVA).
85	622 - Lowland Shrub	1.9	Yes	Low drainage with some cedar, spruce and tag alder. Two-Hearted plan (HCVA).
86	622 - Lowland Shrub	2.5	Yes	Low drainage with some cedar, spruce and tag alder. Two-Hearted plan (HCVA).
87	623 - Emergent Wetland	12.2	Yes	
88	6224 - Treed Bog	13.0	Yes	
91	320 - Upland Shrub	6.2		Scattered RP, WP, WB residual trees. JP saps have established in bog edge. Stand harvested as "High Bridge Patches", sale #010-07-01. Completed 5/29/08. Scarification completed August 2009 FTP 42-689. Regeneration check summer 2012: JP = 584, Aspen=222, RP=81, WP=20 TPA = 907