



# Compartment Review Presentation

**Newberry Forest Management Unit**

**Compartment 42017**

**Entry Year 2022**

**Acreage: 2,643**

**County Luce**

**Management Area: Deer Park**

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**Revision Date:** 2020-08-10

**Stand Examiner:** Matt Payment

**Legal Description:**

T49N R10W Sec. 7, T49N R11W Sec. 1-3, 10-12, T50N R11W Sec. 34, 35

**Identified Planning Goals:**

Maintain forest health, forest recreation, timber production, forest diversity and forest sustainability while considering wildlife, fisheries and environmental needs and concerns.

**Soil and topography:**

Soil series include Deer Park, Rubicon and Wallace sands; Croswell-AuGres, Markey and Carbondale. Wisconsin End Moraines are located near Lake Superior; flat, rolling outwash sand plains throughout.

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

Primarily State of Michigan ownership found within compartment with several scattered, smaller, private parcels included. Small settlements are located along the east side of this compartment in Deer Park, and at the southwest corner of Muskallonge Lake. Large blocks of State Forest are found to west, east and south of compartment. Land uses are predominantly forest management, camping, water recreation and forest recreation in this vicinity.

**Unique Natural Features:**

Lake Superior shoreline, Muskallonge Lake, Cranberry Lake and Trout Creek.

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

None known.

**Special Management Designations or Considerations:**

Eagle nests are documented within compartment.

**Watershed and Fisheries Considerations:**

Trout Creek, Trout Lake, Cranberry Lake, Mud Lake, and Muskallonge Lake all lie within this compartment. Trout Creek is a designated trout stream and possess native brook trout which are supplied from spring fed Trout Lake. Treatments proposed in areas susceptible to aspen regeneration should adhere to a 300 ft buffer from the creek. All other treatments near the other waterbodies in this compartment should maintain a buffer of 100 ft plus 5 ft per 1% increase in slope.

**Wildlife Habitat Considerations:**

Compartment 17 is situated in far northern Luce county, surrounding Muskallonge lake, and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection as well as the Deer Park Management Area with Kirtland's warbler, piping plover, red crossbill and American marten as featured species. The compartment is largely comprised of jack and red pine with scattered stands of birch, aspen and northern hardwoods. Species diversity in stands tends to be decent in the pine and greater in the non-pine stands.

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 in harvested stands will help provide food sources, nest and den trees, and improve structural diversity. Leaving understory spruce and hemlock when it occurs will likewise improve structural diversity of stands. Wildlife species potentially using this compartment include white-tailed deer, black bear, coyote, bobcat, fisher, marten, and otter.

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

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest active sand/gravel pit is roughly three miles southeast. There appears to be potential for sand & gravel (primarily sand) within the compartment, but a shallow water table could inhibit development. In

addition, some sands in this area are known to be hydrophobic, which could affect their utility as construction aggregate. No current mineral leasing activity exists in the area. The state does not appear to have any ownership in Section 11.

**Vehicle Access:**

Primary access to compartment is provided by Co. Rd. 407, which is paved from 4-Mile Corner to the south all the way to the west edge of Muskallonge State Park. This road is maintained open all year. 7-Mile Fire Line is the major east-west access road in the southern portion of the compartment, while the unpaved portion of Co. Rd 407 provides principle east-west access in the northern portion. Numerous forest roads provide access to many areas of the compartment, including private camps and the Lake Superior shoreline. A bridge crossing site over Trout Creek was improved by DNRE-FMD staff in the Fall of 2009. A portable bridge will be installed at this site when funds become available for its purchase and installation.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

Portions of the Pine Ridge ORV Trail pass through the compartment. The North Country Trail runs along the north edge of the compartment. Muskallonge Lake State Park is situated along the north-central edge of Muskallonge Lake. Additional recreational opportunities include hunting, trapping, fishing, beach walking, sled-dogging, snowmobiling, berry picking, boating and wildlife viewing.

**Fire Protection:**

The compartment is in the Two Hearted Zone Dispatch Area. The area has a high potential for large fire development because of the large continuous component of Jack Pine throughout the compartment and long response travel times. The risk to private properties is high because of the adjacent fuel types. Luce County has a Community Wildfire Protection Plan in progress, this may be an opportunity to use a fuel break to reduce the risk to private property.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

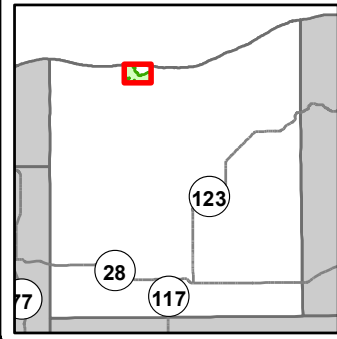
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

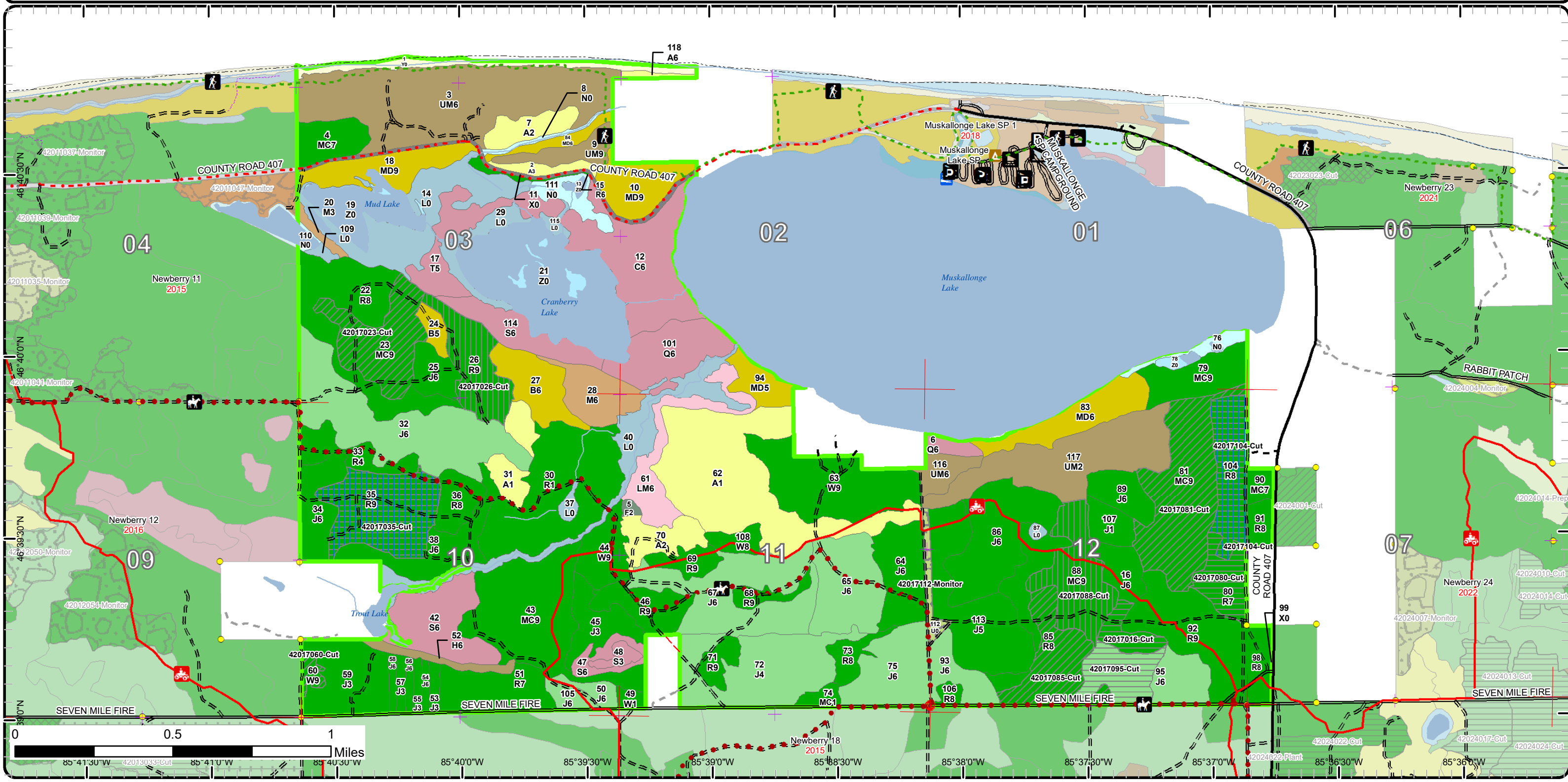
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 17  
 T50N, R11W, Sec. 34, 35  
 T49N, R11W, Sec. 1-3, 10-12  
 T49N, R10W, Sec. 7  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Deer Park  
 YOE: 2022  
 Acres: 2643 GIS Calculated  
 Examiner: Matt Payment  
 Map Revised: 1/25/2021  
 Map Phase: Post-Review



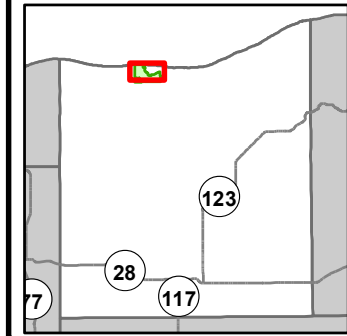
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
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- Horse Trails
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- Designated Hiking Trails
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- Toilet
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- Campground
- Parking Lot
- Sign
- Island in Lake or River
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- Shoreline
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil



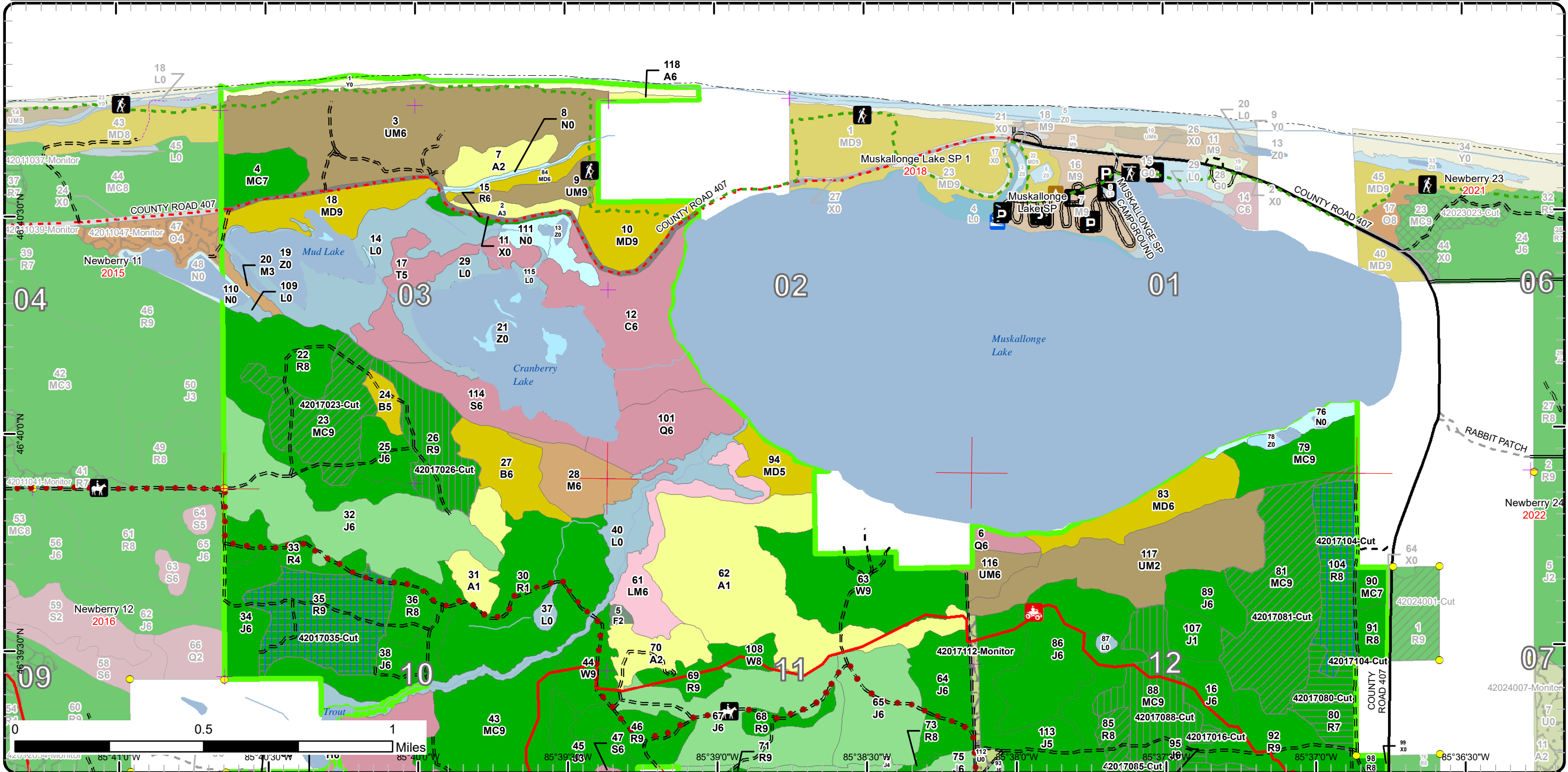


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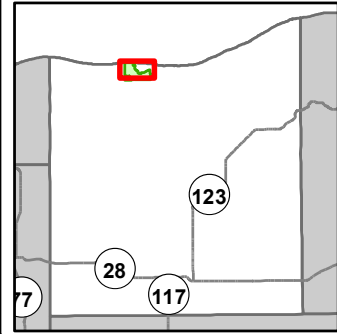




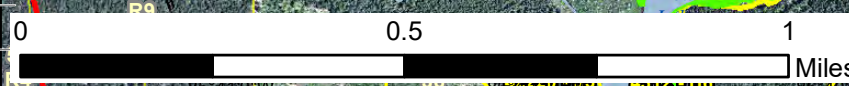
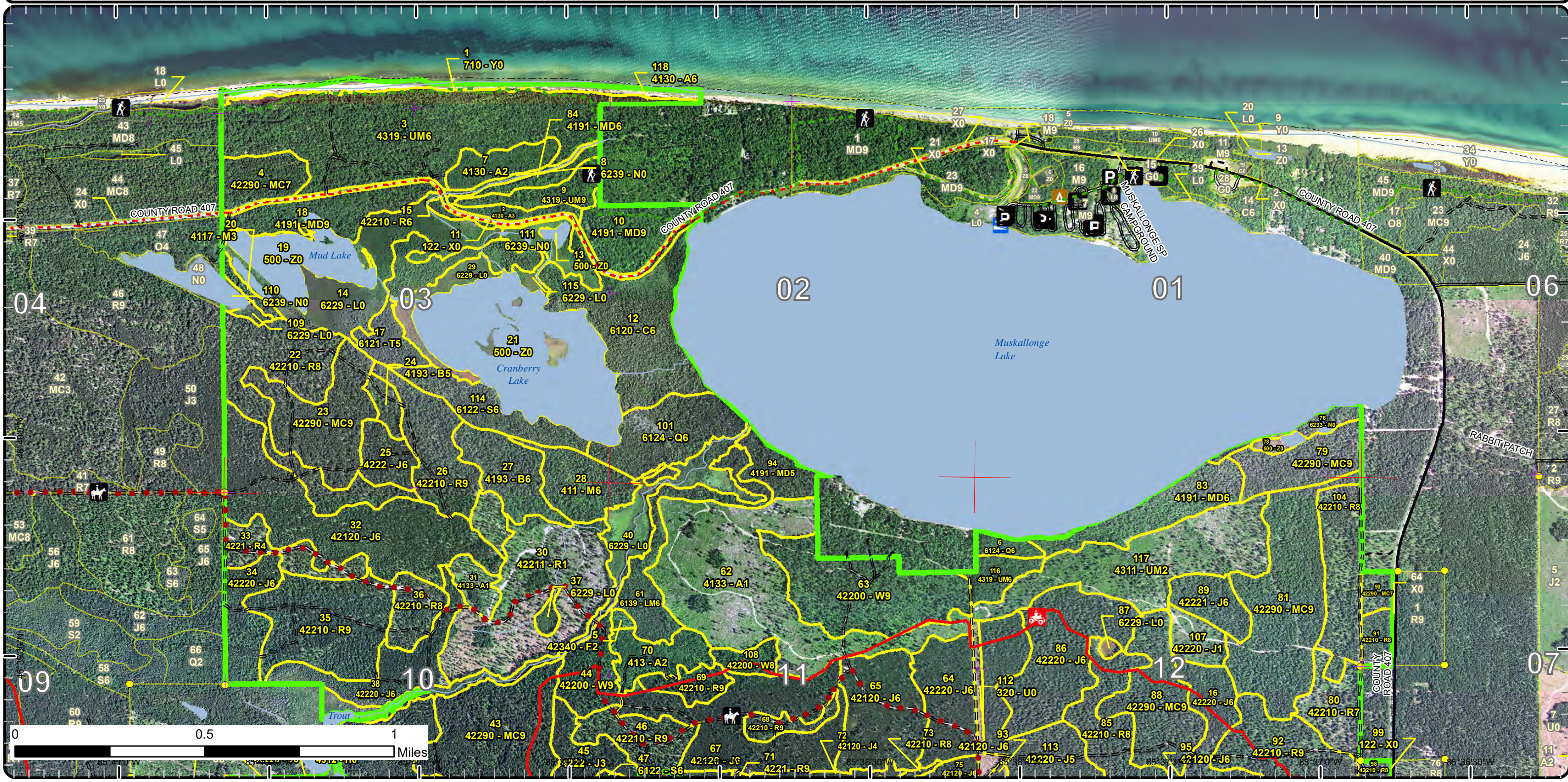


# Stand Boundary Map

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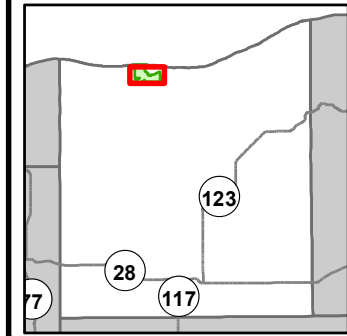
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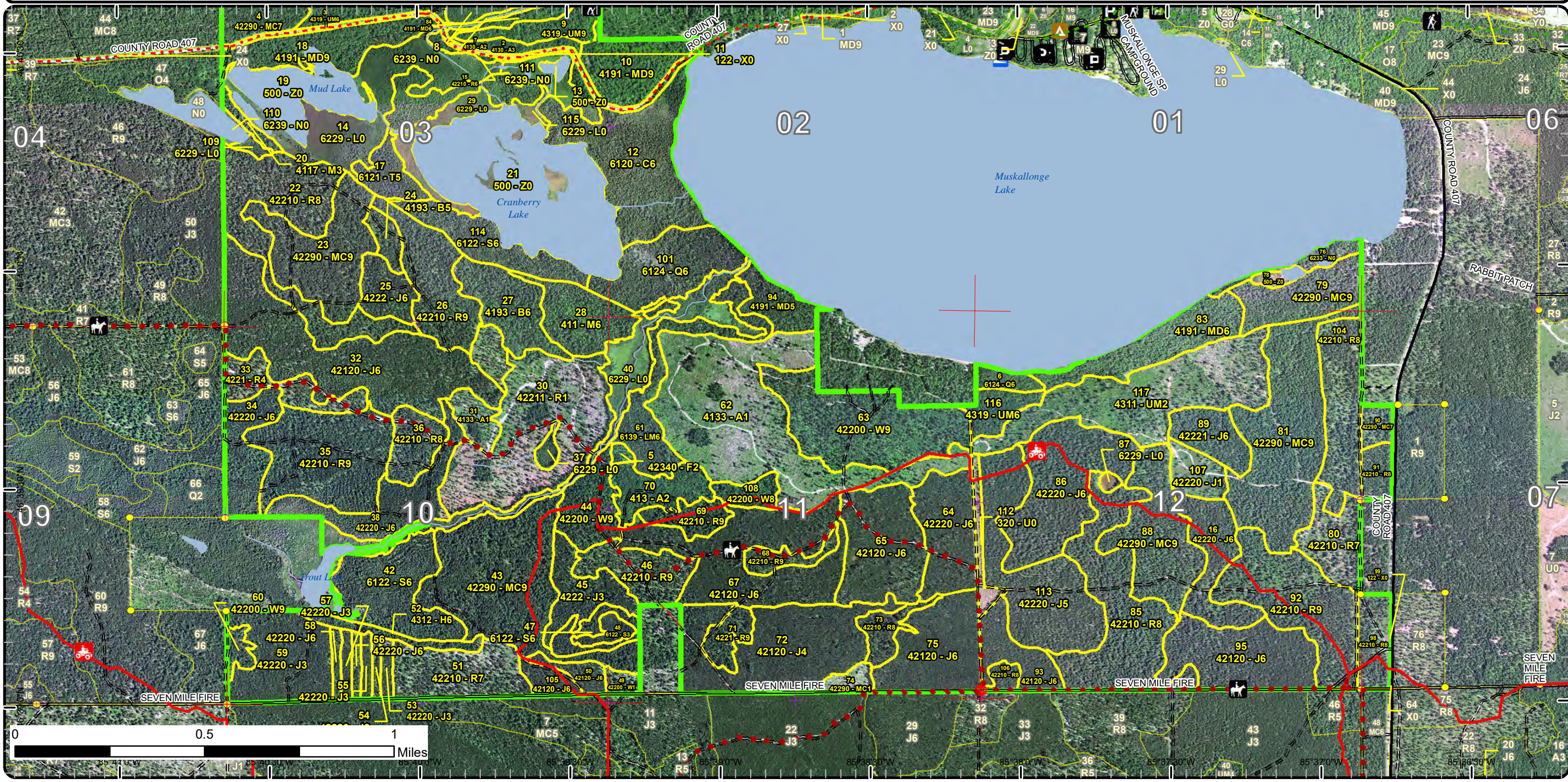


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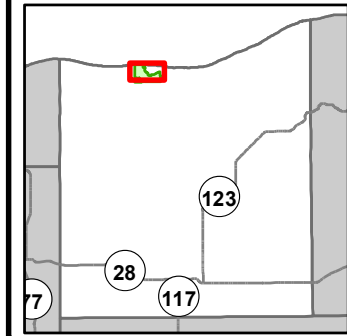
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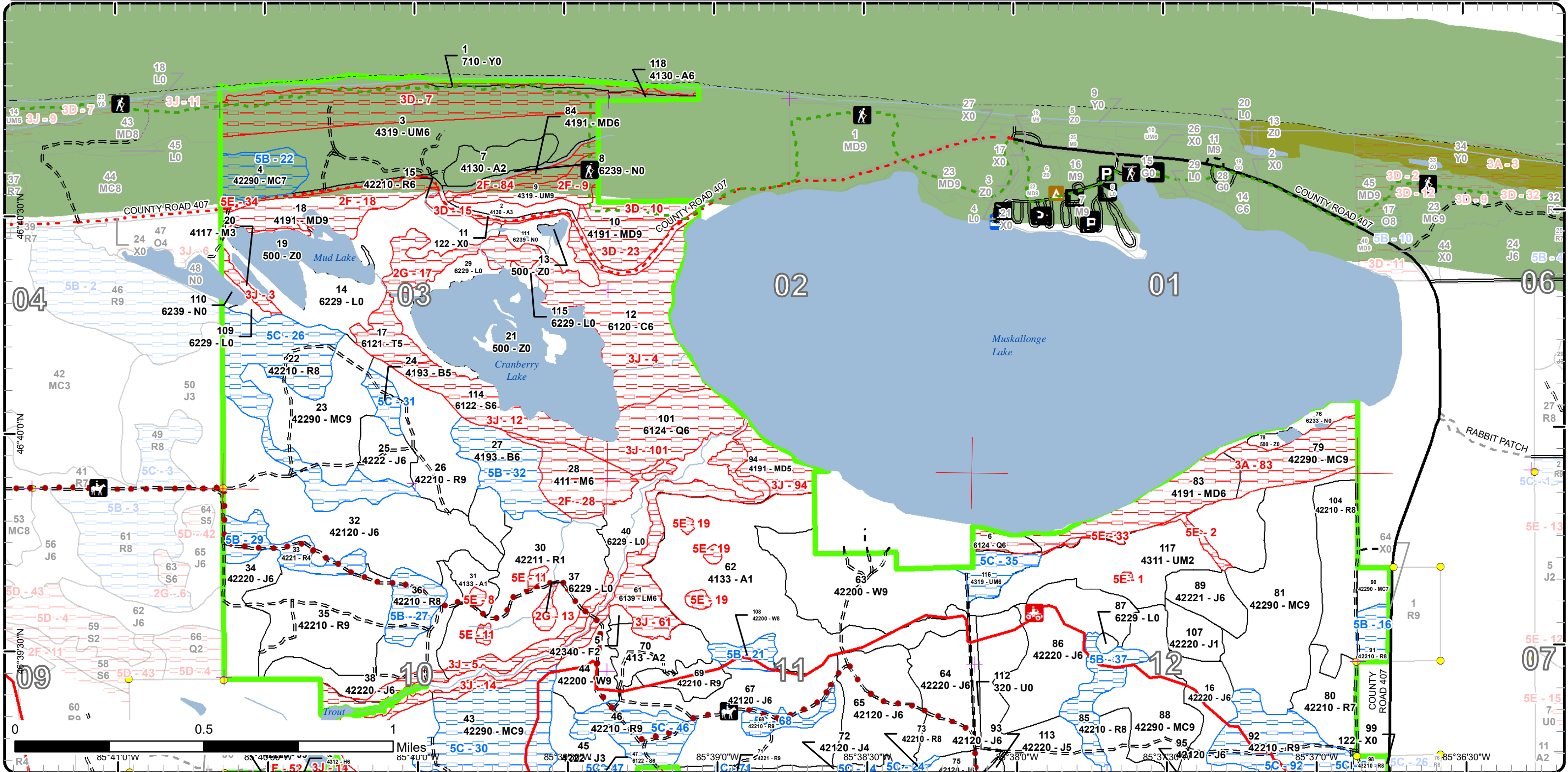


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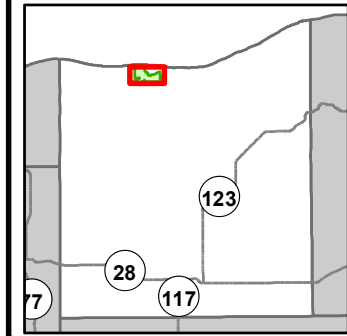
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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Critical Coastal Habitat (Piping Plover)
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks



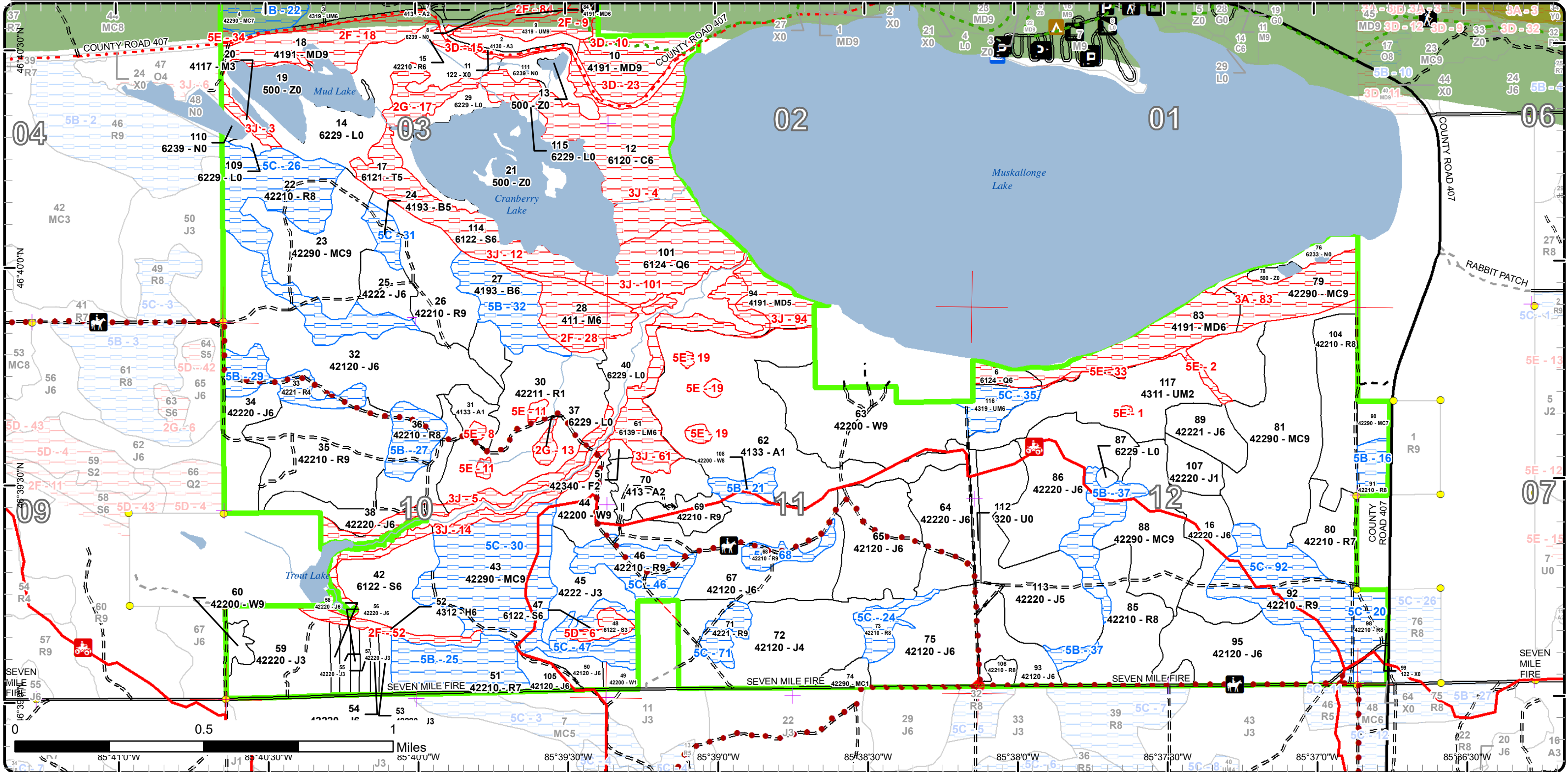


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Critical Coastal Habitat (Piping Plover)
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks





# Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 17

Year of Entry 2022

Matt Payment : Examiner



## 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	120	0	18	20	0	0	0	0	0	0	0	3	0	0	0	0	0	161
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	0	63
Hemlock	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Jack Pine	0	11	0	0	40	551	75	0	0	0	0	0	0	0	0	0	0	0	676
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	6	0	35	0	0	0	41
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	28
Lowland Shrub	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Lowland Spruce/Fir	0	0	0	0	0	0	0	43	0	0	9	0	0	0	0	0	24	0	75
Marsh	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	0	0	0	0	0	14	0	0	0	0	0	34	0	0	0	0	55	103
Natural Mixed Pines	0	0	5	0	0	0	0	0	0	70	48	0	130	0	0	0	0	26	279
Northern Hardwood	0	0	0	0	4	0	0	0	0	0	0	24	0	0	0	0	0	0	28
Paper Birch	0	0	0	0	0	6	0	0	0	0	25	0	0	0	0	0	0	0	31
Red Pine	0	74	0	0	0	0	53	0	56	30	82	17	183	14	0	0	0	10	519
Sand, Soil	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Tamarack	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30
Upland Mixed Forest	0	68	0	0	0	0	0	0	0	0	11	0	137	0	0	0	0	0	215
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Spruce/Fir	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121
White Pine	0	0	4	0	0	0	0	0	0	0	57	0	12	0	0	0	0	19	91
<b>Total</b>	<b>295</b>	<b>273</b>	<b>9</b>	<b>20</b>	<b>64</b>	<b>557</b>	<b>142</b>	<b>43</b>	<b>56</b>	<b>130</b>	<b>232</b>	<b>49</b>	<b>505</b>	<b>42</b>	<b>35</b>	<b>0</b>	<b>87</b>	<b>110</b>	<b>2645</b>





## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 17

Total Compartment Acres: 2,643

Commercial Harvest - 365  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	34	0	0	0	0	0	0	0	0	34
Natural Mixed Pines	0	0	0	0	40	112	0	0	0	152
Red Pine	20	0	0	85	32	38	0	0	0	174
White Pine	0	0	0	0	0	5	0	0	0	5
<b>Total</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>85</b>	<b>71</b>	<b>154</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>365</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	365	0	0	0	0	6	0	0	0	371
Next Step	0	183	86	0	0	40	245	0	0	554
<b>Total</b>	<b>365</b>	<b>183</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>925</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	Habitat Cut
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**Approved Treatments:**

<b>16</b>	<b>42017016-Cut</b>	10.9	42220 - Natural Jack Pine	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention - Leaving retention pockets where appropriate 3-5%, leave diversity in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>23</b>	<b>42017023-Cut</b>	42.2	42290 - Natural Mixed Pine	Sawtimber Well	96	171- 200	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red and white pine 100-120BA, BA will vary due to densities in the stand. Remove all jack pine, aspen, and red maple. Stand size may change during sale prep.</p> <p><u>Specs:</u></p> <p>Leave a combination of Aspen, birch, or maple 1 per 5 acres for wildlife habitat.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>26</b>	<b>42017026-Cut</b>	31.9	42210 - Natural Red Pine	Sawtimber Well	91	81-110	Harvest	Shelterwood with Retention	42210 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Shelterwood with Retention, take BA down to 20-30 BA, focusing on red/white pine. Remove all jack pine, aspen, red maple, and balsam fir.</p> <p><u>Specs:</u> Leave retention pocket(s)3-5% of total acres.</p> <p>Leave a combination of Aspen, birch, or maple 1 per 5 acres for wildlife habitat.</p> <p>Scarify after harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine with minor mixed pine species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>35</b>	<b>42017035-Cut</b>	52.6	42210 - Natural Red Pine	Sawtimber Well	55	81-110	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Seed tree with retention, Remove overstory red and white pine to allow jack pine to grow. Remove merchantable Jack Pine, spruce, balsam, fir, and maple. Leave oak and paper birch. Retention pocket(s) 3-5% of total acres to be left.

Take care to protect regen as best as possible. Leave Limby white pine 1 per 5 acres for wildlife habitat.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable jack pine, red pine, white pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>60</b>	<b>42017060-Cut</b>	4.5	42200 - Natural White Pine	Sawtimber Well	119	171-200	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
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Prescription Crown Thinning, Mark stand down to 120BA marking red and white pine. Remove all Jack pine, balsam for, aspen, and red maple.

Specs:

Leave any oak, birch or hemlock if present.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>80</b>	<b>42017080-Cut</b>	19.8	42210 - Natural Red Pine	Sawtimber Poor	79	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut all species present in the stand.

Specs:

Retention pockets in appropriate places to allow for spraying if needed.

Trench, spray, and plant stand to red pine.

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release

Treatments:

Acceptable red pine with some jack and white.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>81 42017081-Cut</b>	70.2	42290 - Natural Mixed Pine	Sawtimber Well	81	141-170	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Crown thinning take down to 120BA. Mark all species except oak, paper birch. Focus marking trees growing out of form class.</p> <p><u>Specs:</u> Leave Limby white pine 1 per 5 acres for wildlife habitat.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>85 42017085-Cut</b>	37.5	42210 - Natural Red Pine	Sawtimber Medium	111	81-110	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand taking down 70-90BA, some thin areas but overall stand has a slightly higher BA 100-120, leave retention areas from last harvest. Leave all oak, birch, and hemlock. Pine Ridge ORV trail runs through north portion of stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>88 42017088-Cut</b>	39.5	42290 - Natural Mixed Pine	Sawtimber Well	112	111-140	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Shelterwood stand 30-50BA, focusing on trees growing out of form class.</p> <p><u>Specs:</u> Focus on removing more white pine and promoting red pine in this stand.</p> <p>Be sure to leave some large white pine scattered throughout the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed pine species <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>95 42017095-Cut</b>	23.5	42120 - Planted Jack Pine	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention - Leaving retention pockets where appropriate 3-5%, leave diversity in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack Pine <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>104 42017104-Cut</b>	32.2	42210 - Natural Red Pine	Sawtimber Medium	79	51-80	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Seed tree with retention. Mark Red and white pine 10-20BA. Remove all other species except oak and paper birch.</p> <p><u>Specs:</u> Trench and plant if scarification fails. Possibly roller chop if maple regen is to big.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; Planting, Initial Plant; SitePrep, Roller Chopping</p> <p><u>Acceptable Regen:</u> Red pine with small component of Jack and white pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>112 42017112-Monitor</b>	6.3	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> monitor for 3 year regen check.</p> <p><u>Specs:</u></p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Jack pine with aspen, red pine and spruce.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Total Treatment Acreage Proposed: 371.1**



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Matt Payment : Examiner

Compartment: 17  
Year of Entry: 2022



## Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		5B	5C	2F	2G	3A	3D	3J	5D	5E	
160	153	0	7	Aspen						3	0		5	
63	0	0	63	Cedar							63			
8	0	0	8	Hemlock			8							
677	673	0	4	Jack Pine							4	0		
41	0	0	41	Lowland Conifers		0			5		35			
28	0	0	28	Lowland Mixed Forest							28			
115	108	0	6	Lowland Shrub				3			4			
75	32	8	35	Lowland Spruce/Fir		8					30	5		
25	25	0	0	Marsh										
103	0	0	103	Mixed Upland Deciduous		0	34		29	25	14		1	
279	163	85	31	Natural Mixed Pines	16	68			26		5		1	
27	0	0	27	Northern Hardwood			23				4			
31	0	31	0	Paper Birch	25	6								
516	249	252	15	Red Pine	90	163				3	9		2	
17	13	0	4	Sand, Soil						4				
29	0	0	29	Tamarack				29						
215	128	11	76	Upland Mixed Forest		11	13		0	60			3	
6	6	0	0	Upland Shrub										
2	2	0	0	Upland Spruce/Fir										
12	12	0	0	Urban										
121	121	0	0	Water										
92	82	7	2	White Pine	7						2			
2,643	1,767	395	481	Total Forested Acres	139	256	78	32	60	94	199	5	12	
	67%	15%	18%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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2	Unavailable	5E: Long-Term Retention	3	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Left as retention along steep ridges as per comments from Powerline Pine #420161201.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	63	3G: Other Influence zones - See comments	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	2G: Too wet (sensitive soils, does not include access issues)	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5D: Unproductive Forest Land	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	3D: Recreational / Scenic values	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2F: Too steep	13	3D: Recreational / Scenic values	3D: Recreational / Scenic values	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	3D: Recreational / Scenic values	9	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							



## Report 4 – Site Conditions

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15	Unavailable	3D: Recreational / Scenic values	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	3J: Water quality / BMPs (stream, river, or lake)	5D: Unproductive Forest Land	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	2F: Too steep	27	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Big Musky Pine retention.							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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21	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	3D: Recreational / Scenic values	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Held for age class diversity to allow young seedlings to grow before next harvest.							



## Report 4 – Site Conditions

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27	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>2F: Too steep</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	68	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<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>							
32	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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33	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Left as retention along steep ridges as per comments from Powerline Pine #420161201.							
34	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Asses in the future for harvest. Steep ridge on south side.							
37	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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52	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
61	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
68	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
71	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
83	Unavailable	3A: Conservation Values incompatible with harvest at this time	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Asses in the future for harvest. Steep ridge on south side.							
84	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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92	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
94	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	14	3A: Conservation Values incompatible with harvest at this time	3G: Other Influence zones - See comments	2F: Too steep	Unspecified
<b>Comments:</b>							
101	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Cold Water 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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
1	710 - Sand, Soil	Nonstocked	17.4			No	North Country Trail and scenic beach zone influences. Lake Superior shoreline, which fluctuates.																																																																
2	4130 - Aspen	Sapling Well	6.0	36	1-50	N/A	North boundary of stand follows base of sharp, inoperable ridge. Terrain within stand is fairly level. A3 dominated by bigtooth aspen. Infrequent white birch, red maple, fir, white pine, oak, white spruce and sugar maple poles/sawlogs found in overstory. Striped maple, oak and black spruce saplings present. Stand originates from sale #37-85.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>70</td> <td>Sapling/Pole</td> <td>4</td> <td>36</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>8</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	70	Sapling/Pole	4	36	Paper Birch	5	Pole	6		Red Maple	5	Pole	5		White Pine	2	Log	12		White Spruce	8	Pole	6		Sugar Maple	10	Log/Pole	10																														
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Bigtooth Aspen	70	Sapling/Pole	4	36																																																																			
Paper Birch	5	Pole	6																																																																				
Red Maple	5	Pole	5																																																																				
White Pine	2	Log	12																																																																				
White Spruce	8	Pole	6																																																																				
Sugar Maple	10	Log/Pole	10																																																																				
3	4319 - Mixed Upland Forest	Poletimber Well	123.5	117	111-140	N/A	Portion of stand within 2 to 3 chains of the North Country Trail and within 5 chains of Lake Superior beach will be maintained in a SCA for recreation, beach considerations and scenic influences. Stand lies between Lake Superior beach and county road 407. North Country Trail runs through northern portion of stand. Travel and recreation influence zones also present. Terrain consists of a series of low east-west running ridges. High stocking of huckleberry. Many white birch snags. Black spruce is an infrequent overstory member. Red pine, mixed aspen, black spruce, white birch, red maple and fir are infrequent understory associates. White pine saplings are well distributed and locally abundant throughout stand. Regenerating white pine ranges from 10 ft to 30 ft tall. Oak regen ranges from 1ft to 25ft tall. Successional trend appears to be dominance by white pine.																																																																
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4	42290 - Natural Mixed Pine	Sawtimber Poor	17.3	112	1-50	N/A	2020 - White birch, red and white pine, and red oak overstory species. Black spruce, red maple, oak, red pine and white birch seedlings/saplings present. Red pine sawtimber ranges from 12" to 18" Dbh and many have diminished foliage. Oak diameters average 10" Dbh and primarily coppice clumps. Series of low ridges in stand. 12/12/18: Harvested via Selection Cut in 2017 as part of Big Bump Pine, #041-12, TCR 10/9/17. All trees cut except hemlock, oak, paper birch, spruce and trees marked with blue paint.																																																																
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5	42340 - Upland Spruce/Fir	Sapling Medium	1.7	27	Immature	N/A	Stand originated from cutting of Sale #9-92. Fir ranges from 15 to 30 feet tall. Black spruce, red pine, tamarack, white pine, aspen, jack pine and red maple regen present. Overstory white pine remains.																																																																
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<b>6</b>	6124 - Lowland Spruce-Fir	Poletimber Well	5.6	112	111-140	N/A	Stand part of larger wetland complex. Allow natural processes to take place. Muskallonge Lake forms north boundary. Steep embankment to south and private land and cabin to west. Some large white and red pine in the stand with some red maple, paper birch black spruce and scattered cedar. Balsam fir is also present in the stand.																																																															
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<b>7</b>	4130 - Aspen	Sapling Medium	14.1	36	1-50	N/A	Bigtooth aspen dominates the overstory. Aspen ranges from 25ft to 40 ft tall. Terrain is a series of ridges and flats. White birch, red maple, white pine, jack pine, fir and oak regen are present. White pine, jack pine, fir, red pine, oak, bigtooth aspen and red maple poles/sawtimber are occasional overstory associates.																																																															
<b>8</b>	6239 - Mixed Emergent Wetland	Nonstocked	3.5			No	Steep banks and wetland considerations. Intermittent drainage which extends to across Co Rd 407 - deep cut slopes on both sides of ravine. Tag alder, oak saplings, fir saplings and red maple saplings found.																																																															
<b>9</b>	4319 - Mixed Upland Forest	Sawtimber Well	13.4	117	81-110	N/A	Recreation and scenic influences. Rugged, difficult terrain severely limits operation of logging equipment. Red pine, white spruce, yellow birch and white pine are infrequent overstory associates. Striped maple, red maple, fir, oak and white pine saplings present. Some small patches of M2/F2. North Country Trail passes through stand.																																																															
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<b>10</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	24.8	118	111-140	N/A	Recreation and scenic considerations. North Country Trail runs through stand. Co Rd 407 forms south boundary of stand. Mixed hardwood pulp category comprised of white birch and red oak. M2 consists of primarily striped maple. Fir and striped maple form a fairly dense midstory. Patches of M3/F3 midstory. Old borrow pit along county road. Level terrain. Poor form and quality in majority of red maple sawlogs. Excellent form and quality to many of the red oak sawlogs. Some of the red oak are between 26" and 28" Dbh. Hemlock, oak, white spruce and red maple regen found. White pine, bigtooth aspen and sugar maple are infrequent overstory associates.																																																													
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<b>11</b>	122 - Road/Parking Lot	Nonstocked	11.1	10	Immature	No	Co Rd 407 ROW. This ROW will be maintained by county and not be re-vegetated.  Stand harvested as sale #001-11-02. Co Rd 407 ROW.																																																													
<b>12</b>	6120 - Lowland Cedar	Poletimber Well	63.0	155	141-170	N/A	Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Stand situated between Co Rd 407, Muskallonge Lake and Cranberry Lake. Markey and Carbondale soils, indicate severe equipment limitations. Wet ground - interlaced lowland channels throughout stand. Very poor form to cedar. Cedar regeneration is prevalent throughout stand, and locally quite dense. Cedar regen ranges from 3 ft to 20 ft tall. Very scarce Canada yew and mountain ash. Outflow stream from Cranberry Lake connects to Muskallonge Lake. Stream is approximately 10 feet wide. White spruce and tamarack poles are infrequent overstory associates. Tag alder, black spruce, fir and white birch saplings found in understory.																																																													
<b>13</b>	500 - Water	Nonstocked	1.4			No	Water with marsh grass surrounding it.																																																													
<b>14</b>	6229 - Mixed lowland shrub	Nonstocked	52.5			No	Wetland complex around Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Lot of willow. Stand is approximately 40-50% open with marsh grass.																																																													
<b>15</b>	42210 - Natural Red Pine	Poletimber Well	2.8	112	111-140	N/A	Stand located along Co Rd 407. Infrequent red maple, bigtooth aspen and cedar poles found. Oak also in overstory. Oak, white pine, black spruce and cedar regen present. Stand within water influence zone, Site Conditioned.																																																													



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16	42220 - Natural Jack Pine	Poletimber Well	24.4	47	81-110	N/A	White pine, black spruce, red maple and white birch are infrequent overstory associates. Red pine, white pine, black spruce and white birch regen present. ORV trail passes through stand.																																																																																	
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17	6121 - Tamarack	Poletimber Medium	29.5	81	1-50	N/A	SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Markey and Carbondale soils. Thick tamarack regeneration, in places. Close to both lakes, site conditioned.																																																																																	
18	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	26.6	115	111-140	N/A	Scenic, steep terrain and adjacent wetland considerations. Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Trembling aspen, bigtooth aspen, black spruce, balsam fir and hemlock are infrequent overstory associates. Steep, long slopes and knife-backed ridges transect stand. Many white birch snags. Oak sawtimber ranges from 14 inch Dbh up to 24 inches Dbh. Red pine sawtimber ranges from 16 inch Dbh to 22 inch Dbh. Areas with heavy oak regeneration, ranging from 1 ft to 20 ft tall. Black spruce, red maple, white birch, red pine and white pine regeneration present. Fir forms a midstory in some patches. Stand situated between Mud Lake and Co Rd 407. Very mixed composition.																																																																																	
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19	500 - Water	Nonstocked	26.0			No	Mud Lake. Large expanses of mudflats with a central pond area.																																																																																	
20	4117 - Mixed N. Hardwood - Pine	Sapling Well	3.6	36	1-50	N/A	Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Stand lies between Mud Lake and wetland to west. M3 stand of mainly red maple, some large overstory white pine in the stand. Site Conditioned.																																																																																	
21	500 - Water	Nonstocked	90.8			No	Cranberry Lake. Lake level is at high stage along with Mud Lake and Muskallonge Lake.																																																																																	
22	42210 - Natural Red Pine	Sawtimber Medium	52.7	110	51-80	N/A	Vigorous subcanopy of jack pine, white pine and red pine saplings. Black spruce, red maple and white birch saplings are present. Scattered patches of less dense overstory. White pine, oak and white birch are infrequent overstory associates. Too many submerchantable mixed pine stems to operate in.																																																																																	
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<b>23</b>	42290 - Natural Mixed Pine	Sawtimber Well	42.2	96	171-200	N/A	High quality red pine poles. Ridges. Red maple, red pine and jack pine regen present. Infrequent black spruce poles found.																																																				
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<b>24</b>	4193 - Birch, Aspen	Poletimber Medium	6.2	49	51-80	N/A	Mixed stand composition. Nice mixed pine regeneration. Stand will transition to a mixed pine/aspen stand. A3 = trembling aspen. Red pine, white pine, red maple and jack pine regen is present. Fir, red maple, white pine, red pine and bigtooth aspen poles present.																																																				
<b>25</b>	4222 - Natural Jack Pine	Poletimber Well	12.7	49	81-110	N/A	Red maple, white pine and white birch regen present. White pine and white birch are infrequent overstory associates. Low hills.																																																				
<b>26</b>	42210 - Natural Red Pine	Sawtimber Well	31.9	91	81-110	N/A	Low hills. Very nice mixed pine regen well established. Mixed hardwood category comprised of trembling aspen and red maple. White pine and bigtooth aspen are infrequent overstory associates. Black spruce, red maple, white birch and red pine regen found.																																																				
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<b>27</b>	4193 - Birch, Aspen	Poletimber Well	25.1	90	51-80	N/A	Steep ridge along most of perimeter. About 50% of white birch dead. Fir poles present. White pine and scattered red pine, stand transitions down into lowland cedar near the lake. Red maple, red pine, black spruce and fir regen found.																																																				
<b>28</b>	411 - Northern Hardwood	Poletimber Well	23.5	101	141-170	N/A	Influence zones around the stream, lake, and some steep ridges would affect this stands harvesting operability.  Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Very steep, razor-backed ridges in stand. Red pine is an infrequent overstory associate. Hemlock, red maple and striped maple regen present. Higher percentage of overstory red maple found in north portion of stand.																																																				
<b>29</b>	6229 - Mixed lowland shrub	Nonstocked	12.7			No	Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Stand situated along west edge of Cranberry Lake.																																																				





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30	42211 - Natural Red Pine, Mixed Deciduous	Sapling Poor	73.5	6	Immature	N/A	Stand was treated with TSale# 420531201 Deertown Pine. TCR 12/30/2015.  red and white pine left scattered along with lower pockets of white pine and black spruce. bigtooth aspen prevalent species with red maple. pine regen is lacking. some jack pine in sand openings.																																																
31	4133 - Aspen, Mixed Pine	Sapling Poor	16.1	6	1-50	N/A	Stand mainly red and white pine left after last harvest, area patch retention. Some ridges in the northern edges. Some regen coming in of red, white, and jack pine. Significant amount of red maple and aspen coming in throughout the stand. Not ready for additional harvest at this time unless clear cut and started over.  (2015) - Stand was treated with Tsale#420531201 Deertown Pine. TCR 12/30/2015.																																																
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32	42120 - Planted Jack Pine	Poletimber Well	81.8	45	51-80	N/A	Area was seeded in Spring, 1976. Sale #13-73A; FTP #106 Jack pine ranges from 30 to 40 feet tall. Most jack pine sticks contain 2 sticks. Patches with concentrated black spruce regen. Higher ridge in stand. Random white pine poles and sawlogs found. White birch, black spruce, red maple, jack pine and white pine regen present. Red pine regen ranges from 5 to 16 ft tall.																																																
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33	4221 - Natural Red Pine	Poletimber Poor	17.0	105	51-80	N/A	Jack pine removed, mainly red and white pine left now. understory of black spruce, paper birch, red maple.  2/24/16 Stand cut part of sale 420531201 Deertown Pine. TCR 12/30/2015.																																																
34	42220 - Natural Jack Pine	Poletimber Well	21.8	55	81-110	N/A	Red pine, black spruce and white birch are minor overstory associates. White pine, white birch, black spruce and red maple regen present.																																																
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35	42210 - Natural Red Pine	Sawtimber Well	52.6	55	81-110	N/A	Rolling terrain. Patches of J2 understory - 3" to 5" Dbh. Small openings. Submerchantable jack pine - 5" Dbh. Most red pine canopies vigorous. White birch, red maple, red pine, white pine and bigtooth aspen regen present. White pine and white birch are infrequent overstory associates.																																																
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<b>36</b>	42210 - Natural Red Pine	Sawtimber Medium	14.3	110	51-80	N/A	Utility poles present in red pine. Jack pine removed. White birch, white pine poles present. White pine, red pine and white pine regen present. Retained any oak, white birch and hemlock. Left white pine unless needed for logging maneuverability. Left some overstory spruce.																																																								
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<b>37</b>	6229 - Mixed lowland shrub	Nonstocked	2.9	0		No	Stand is wet and has some scattered black spruce and balsam fir throughout. Some larger white pine around the edges as well. Left as long term retention.																																																								
<b>38</b>	42220 - Natural Jack Pine	Poletimber Well	29.4	55	81-110	N/A	jack pine and black spruce dominant overstory. Some pockets of lowground. Patches of J3. White pine and bigtooth aspen are infrequent overstory associates. White birch and red pine regen present.																																																								
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<b>40</b>	6229 - Mixed lowland shrub	Nonstocked	40.5			No	Stand is part of Mud, Cranberry and Muskallonge Lakes wetland complex. Allow natural processes to take place. Stand contains Trout Creek. New bridge installed 2015 and redecked spring of 2019.																																																								
<b>42</b>	6122 - Black Spruce	Poletimber Well	38.3	68	51-80	N/A	Mix of low and high ground. Higher density of jack pine, red pine and white pine on upland. Mixed softwood category comprised of red and white pine. White birch, red maple, jack pine, red pine, fir and cedar regen present. Fir poles present.																																																								
<b>43</b>	42290 - Natural Mixed Pine	Sawtimber Well	73.3	119	111-140	N/A	Stand mainly red and some white pine with scattered birch, oak, hemlock. Steep ridge to SE, against stand 49. ORV trail passes through stand.																																																								
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<b>44</b>	42200 - Natural White Pine	Sawtimber Well	19.1	91	81-110	N/A	Mixed overstory composition and variable understory. Red maple, jack pine, mixed aspen, white birch, fir and white spruce poles present. Aspen, black spruce and white pine regen present. Mixed softwood pulp comprised of red and white pine. ORV trail runs through stand. Water influence zone.																																																								
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45	4222 - Natural Jack Pine	Sapling Well	19.1	42	1-50	N/A	Natural regen, approximately 30-40ft tall. Fair amount of aspen and black spruce regen within northwest corner of stand. Scattered red and white pine poles/sawtimber present.																																						
46	42210 - Natural Red Pine	Sawtimber Well	21.0	119	51-80	N/A	Stand harvested as Trout Creek Red Pine (026-02-01). Completed 08/12/05. White pine and white birch poles present. White pine, black spruce, red maple, red pine and jack pine regen present. F understory comprised of black spruce.																																						
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47	6122 - Black Spruce	Poletimber Well	8.5	96	81-110	N/A	Steep, inoperable ridges form west and south perimeter. Patches of more contiguous black spruce. White birch poles found. White pine, tamarack and red maple regen present.																																						
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48	6122 - Black Spruce	Sapling Well	4.5	67	51-80	N/A	Jack pine stocking higher than black spruce count in overstory. Black spruce, jack pine, tamarack and white pine regen found. Stand very wet when inventoried.																																						
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49	42200 - Natural White Pine	Sapling Poor	3.6	17	Immature	N/A	T. sale # 001-02-1 "7 Mile Jack Pine" cut 5/2003. FTP 42-560 scarified 7/2004. Regeneration count completed 5/14/2007 = 228 t/ac (<12" ht). Re-checked regen success 5/20/2008 = 685t/ac (342 J and W both ~ 2' hts). Steep ridge runs along north edge of stand. Oak poles present. Jack pine regen 1 - 3 ft tall. Pockets of W2 - 1 to 6 ft tall. Residual white and red pine poles/sawtimber = 10 to 50 sq ft.																																						
50	42120 - Planted Jack Pine	Poletimber Well	6.1	47	51-80	N/A	2-0 JP planted Spring, 1976. Jack pine comprised of two age groups. Scattered 3 stick 10 inch Dbh jack pine cohort arising before planting, and 2 to 4 stick 5" Dbh cohort originating from planting. White pine, oak and white birch overstory associates. White pine, red pine and black spruce regen present. Steep east-west ridge along north edge of stand.																																						
51	42210 - Natural Red Pine	Sawtimber Poor	30.0	87	51-80	N/A	Mainly red and white pine, jack pine was removed. Retained oak and hemlock where it exists. Left some non-pine and understory spruce for mid-canopy nesting and feeding birds. Stand Year Origin was 1934																																						
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12/7/16 - Trout Tail Pine 052-12. Completed 12/16. Regen in 2017.





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52	4312 - Hemlock, Mixed Deciduous	Poletimber Well	7.7	106	81-110	N/A	Ptand is part of Trout Lake wetland complex. Allow natural processes to take place. West 1/2 of stand will be considered part of the SCA. Stand lies upon very steep, long east-west oriented ridge above Trout Lake. Stand transitions into more of a mixed pine stand to east. Aspen and fir poles also present. Cedar, fir and red maple regen found.																																								
53	42220 - Natural Jack Pine	Sapling Well	3.3	42	1-50	N/A	Jack pine 30 ft to 40 ft tall. Red pine and white pine poles/sawtimber found scattered about stand. Limited red maple and white pine regen found. FTP # 42-171: stand was scarified.																																								
54	42220 - Natural Jack Pine	Poletimber Well	2.5	53	51-80	N/A	Stand was cut sometime in the late 50's - early 60's (sale #19-62?); records are poor, though. Gaps in stocking. Oak, fir, white birch, red pine and white pine are infrequent overstory associates. Red maple and red pine regen is present.																																								
55	42220 - Natural Jack Pine	Sapling Well	3.2	42	1-50	N/A	Jack pine 30-40 ft tall. Dense stocking. Scattered red pine sawlogs present. Red pine regen found. FTP # 42-171: stand was scarified.																																								
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56	42220 - Natural Jack Pine	Poletimber Well	2.7	52	51-80	N/A	White birch, oak, aspen and white pine are minor overstory associates. White pine and red maple regen found. Stand was cut sometime in the late 50's - early 60's (sale #19-62?); records are poor, though.																																								
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57	42220 - Natural Jack Pine	Sapling Well	3.4	42		N/A	Jack pine are 30-40ft tall. Terrain is gently rolling. Dense stocking level. Widely scattered red pine sawlogs found. FTP # 42-171: stand was scarified.																																								
58	42220 - Natural Jack Pine	Poletimber Well	3.0	53	51-80	N/A	Some holes in stocking. Rolling terrain. Small patch of R6 near south firelane. Scarce red pine sawtimber found. Red maple and red pine regen present. Stand was cut sometime in the late 50's - early 60's (sale #19-62?); records are poor, though.																																								
59	42220 - Natural Jack Pine	Sapling Well	36.5	42		N/A	Jack pine 230-40 ft tall, though trees shorter to SE. Scattered red pine, white pine, white birch, oak and red maple poles/sawtimber present. White birch, white pine, red maple, black spruce, fir, oak and red maple saplings found. FTP # 42-171: stand was scarified.																																								



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<b>60</b>	42200 - Natural White Pine	Sawtimber Well	4.5	119	171-200	N/A	Rolling terrain. White pine saplings are 10-15 ft tall. Stand crosses into compartment to west. White birch and red maple poles are minor overstory associates. Red maple and black spruce saplings present.																																																				
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<b>61</b>	6139 - Mixed Lowland Forest	Poletimber Well	28.0	125	111-140	N/A	Stand is part of Mud, Cranberry and Muskallonge Lakes wetland complex. Allow natural processes to take place. Stand borders Trout Creek. Cedar stocking increases in certain areas. White birch poles present. Cedar, fir and red maple regen found. Stand borders Trout Creek. Equipment limitations due to soft, mucky soil. Ground cover is predominately labrador tea - wet!																																																				
<b>62</b>	4133 - Aspen, Mixed Pine	Sapling Poor	103.7	6	Immature	N/A	Black spruce, fir, white pine and red maple regen found. Mixed softwood category comprised of jack pine, black spruce and white spruce. Removed approximately 75% of red pine. Left all oak, serviceberry, mt. ash, cedar and hemlock. Regeneration includes red maple, white birch, fir, white pine, red pine, jack pine, spruce, oak and aspen. 2016: sale complete. 42-015-12-01, Big Musky Pine. TCR 07/14/15																																																				
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<b>63</b>	42200 - Natural White Pine	Sawtimber Well	57.1	96	81-110	N/A	Stand harvested as "Muskallonge Aspen" (005-02-01). Completed 11/01/04. Aspen very dense in areas with red maple component, while in other areas red maple dominates with a lesser component of aspen. Regen layer ranges from 5 to 20 feet tall. Patches of R7 and R8 residual. Red pine sawlogs average 20 inch Dbh. Trembling aspen, black spruce, fir and white pine are infrequent in residual canopy layer. Both bigtooth and trembling regen present. White pine, fir and black spruce regen present. ORV trail passes through stand.																																																				
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<b>64</b>	42220 - Natural Jack Pine	Poletimber Well	29.9	46	51-80	N/A	Mainly Jack pine. Cut in 1973-74; sale #12-73A. Red maple, bigtooth aspen and red pine regen present. White birch, white pine and bigtooth aspen are infrequent overstory associates. Some large red pine present.																																																				
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<b>65</b>	42120 - Planted Jack Pine	Poletimber Well	40.3	35	51-80	N/A	Jack pine are around 32 feet tall. Scattered white pine, black spruce, red pine and jack pine poles present. Some infrequent red pine sawlogs. Sparse red maple saplings in understory. Sale #71-84 and FTP #42-199. ORV trail passes through stand.																																																				
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<b>67</b>	42120 - Planted Jack Pine	Poletimber Well	64.1	42	51-80	N/A	FTP #42-24 (comment: "1,000 trees/ac - 55% stocked"). Jack pine ranges from 30 to 32 ft tall. Some JP stems transitioning into small poles. Random red and white pine sawlogs retained. Trembling aspen, red pine, black spruce and white birch regen present. Stand fully stocked. ORV trail passes through stand.																																																				
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<b>68</b>	42210 - Natural Red Pine	Sawtimber Well	7.3	112	111-140	N/A	Stand harvested as "Trout Creek Red Pine" (026-02-01). Completed 08/12/05. FTP = C42-577. Areas with lower stocking. Next cut will be to establish regeneration and proper overstory density. Red pine, white pine, jack pine, red maple, black spruce and white birch regen present. High quality timber. Infrequent white birch poles.																																																				
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<b>69</b>	42210 - Natural Red Pine	Sawtimber Well	9.9	112	51-80	N/A	Varying stocking levels - small patches of F2/A1 and higher BA R9. ORV trail passes through stand. Jack pine, white birch, white pine, black spruce, trembling aspen and red maple poles are infrequent overstory associates. Fir, black spruce, red maple, jack pine and white pine regen present. Areas with A1/M2 understory.																																																				
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<b>70</b>	413 - Aspen	Sapling Medium	17.5	26	Immature	N/A	Poor to moderate aspen stocking. Majority of stems are trembling aspen with sporadic bigtooth stocking. Aspen is about 35 feet tall. Many 10 to 15 ft tall soft maple saplings. White pine, red pine, black spruce, fir and jack pine regen are present. Random white pine poles scattered across site. Stand originated from cutting of Sale #9-92. some damage from ice storms winter of 2019-2020.																																																				
<b>71</b>	4221 - Natural Red Pine	Sawtimber Well	8.7	112	111-140	N/A	Midstory of large black spruce saplings. Random black spruce poles present. Jack pine saplings found. Need to allow jack pine poles to increase in ht and diameter.																																																				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
72	42120 - Planted Jack Pine	Poletimber Poor	60.9	47	81-110	N/A	Stand cut in 1972. FTP # 93; Planted Spring, 1976: 2-0 JP. Jack pine is approximately 30 to 40 feet tall. Rows run north-south. Sporadic black spruce poles present. Infrequent red and white pine sawlogs found. Scarce white birch regen. Some ice damage from winter 2020 storms.																																																																
73	42210 - Natural Red Pine	Sawtimber Medium	9.3	112	81-110	N/A	2020 - Stand of mainly red and white pine. Tall healthy. 12/12/18: Harvested via Selection Cut in 2017 as part of Big Bump Pine, #041-12, TCR 10/9/17. All JP cut, marked RP and WP cut, all hemlock, oak, paper birch and spruce left.																																																																
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74	42290 - Natural Mixed Pine	Sapling Poor	5.0	17	Immature	N/A	Open grown larger red and a few white pine, some jack pine seedlings coming in 2-8ft range. Stand small acreage, let stand fill in naturally.  Stand harvested as "7 Mile Jack Pine" timber sale. Completed 5/11/04. FTP 42-560 completed 7/2004. Regeneration count completed 5/14/2007 = 171 t/ac (JP <12" ht). Re-checked regen on 5/20/08=342 t/ac (JP = 1' ht).. Random red and white pine poles/sawtimber present. Scarce white pine saplings found.																																																																
75	42120 - Planted Jack Pine	Poletimber Well	36.4	44	81-110	N/A	Stand was cut in 1974 w/stand in section 14 ; sale #13-74. Planted in Spring, 1979 with 2-0 JP. Jack pine is approximately 30 to 34 feet tall. Rows run north-south. Scattered red pine poles and sawlogs throughout stand.																																																																
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76	6233 - Wet Meadow	Nonstocked	8.0			No	Stand borders Muskallonge Lake. Allow natural processes to take place. Stand is approximately 90% openland. Very wet. Sweet gale and tag alder fringe. Cedar, tamarack, red maple, white birch, white spruce, jack pine and white pine poles infrequent components.																																																																
78	500 - Water	Nonstocked	2.9			No	Flooded																																																																
79	42290 - Natural Mixed Pine	Sawtimber Well	25.5	113	111-140	N/A	Fir and black spruce regen approximately 16 to 24 ft tall. Steep ridge along south edge of stand - will not be able to operate on certain portions. Follow BMP guidelines when determining set-back from Muskallonge Lake wetlands when determining exterior sale boundary. Retention will be by area reserve. Red maple and cedar poles found in stand. White pine, red pine, white birch and red maple regen present. Leave all hemlock, oak and cedar.																																																																
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<b>80</b>	42210 - Natural Red Pine	Sawtimber Poor	19.8	79	1-50	N/A	Area was cut over in the early 50's when in PVT ownership. Stand was harvested as Muskallonge Jack Pine (006-02-01). Residual red and white left. FTP42-562 completed 7/2004 (south half of stand only). Regeneration count completed 5/14/2007 = 445 t/ac (mix of J,W,R, and A). Stocking level seems inadequate. Jack pine regen ranges from .5 ft to 4 ft tall. Clusters and solitary red pine sawtimber across site. Low levels of white pine, red maple and black spruce regen present. Small patches of bigtooth aspen whips. Some scattered red pine regen. Infrequent white pine, red maple, white birch and oak poles present.																																																														
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<b>81</b>	42290 - Natural Mixed Pine	Sawtimber Well	70.3	81	141-170	N/A	Infrequent overstory associates include oak, white birch, bigtooth aspen, fir and red maple. Weak, sparse crowns on portion of white pine pulp. Jack pine poles will not deteriorate over next 10 years. Most fir poles have died out and heavy fir regen filling in these pockets. Stand was previously in private ownership.																																																														
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<b>83</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	30.5	101	81-110	N/A	Stand borders Muskallonge Lake. Allow natural processes to take place. Lake level is very high pushing into parts of the stand. Stand runs from steep south ridgeline down to Muskallonge Lake. Stand shifts from more of a B6 to west to a pine system to east to a soft maple type to south. Aspen and red maple in understory is dominant. White spruce and hemlock are infrequent overstory associates. Hemlock, oak, yellow birch, black spruce, tag alder, beech and white pine regen found. Steep, inoperable ridgeline along south boundary.																																																														
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<b>84</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.2	113	111-140	N/A	Mixed birch/oak/aspen type. Steep terrain. Red oak, red maple, white pine, fir and black spruce regen present. Stand also in travel influence zone. Very steep slope along L type to north. North Country Trail passes through east side of stand.																																																														
<b>85</b>	42210 - Natural Red Pine	Sawtimber Medium	58.5	111	81-110	N/A	6/3/20 - Stand has red and white pine mainly with retention pockets focusing on leave spruce and some pine in around them. Stand was thinned in 2017 but could have been marked harder to promote regen within the stand. Some white pine is coming up but jack and red is scarce. Stand could be thinned again before being final harvested.  12/12/18: Harvested via Selection Cut in 2017 as part of Big Bump Pine, #041-12, TCR 10/9/17. All JP cut, marked RP and WP cut, all hemlock, oak, paper birch and spruce left. Includes retention areas as shown on timber sale map.  Pine Ridge ORV Trail passes through stand.																																																														
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<b>86</b>	42220 - Natural Jack Pine	Poletimber Well	50.5	48	81-110	N/A	Residual red pine sawlogs average about 10 sq. ft. per plot, with clumps of R8. Patches of mixed jack pine/red pine/white pine regen. Jack pine saplings range from 40 to 50ft tall. Mosaic of large jack pine saplings and small poles. Widely scattered white pine sawlogs and poles. Oak poles present. Red maple, black spruce and fir regen found. ORV trail passes through stand.																																																															
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<b>87</b>	6229 - Mixed lowland shrub	Nonstocked	1.4		Unspecified	No	Sporadic leatherleaf and bog rosemary. Pitcher plants are very abundant. Sparse jack pine and black spruce saplings found - average Dbh = 2". Low hill around perimeter of stand.																																																															
<b>88</b>	42290 - Natural Mixed Pine	Sawtimber Well	39.7	112	111-140	N/A	Pine Ridge ORV trail runs through stand. Stand harvested as "Muskalloung Red Pine" (027-02-01). Completed 07/29/05. Higher stocking of red pine to north. Patches of A2 (bigtooth, 6 ft to 16 ft tall) understory to southeast. Red maple, white pine, black spruce, red pine and jack pine regen present. White birch is infrequent overstory member.																																																															
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<b>89</b>	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	15.4	58	81-110	N/A	White pine, red maple and bigtooth aspen are uncommon overstory associates. mainly jack pine, stand is on a ridge running east west.																																																															
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<b>90</b>	42290 - Natural Mixed Pine	Sawtimber Poor	5.7	91	1-50	N/A	2020: Adequate regen coming in with a mix of red, white, and jack with some aspen as well.  12/12/18: Harvested via Clearcut in 2013 as part of Big Bump Pine, #041-12, TCR 10/9/17. All JP cut, marked RP and WP cut, all hemlock, oak, paper birch and spruce left. No scarification was planned.  Removed some red pine. Left white pine unless needed for harvest operability. Retained oak, aspen, black spruce, red maple, white birch and hemlock. Red maple, fir, black spruce, white pine and white birch regen found. Co Rd 407 forms east boundary of stand. Stand area too small for mechanical scarification. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, spruce, oak and fir.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>91</b>	42210 - Natural Red Pine	Sawtimber Medium	7.6	113	51-80	N/A	2020: Stand has a decent mixture of pine coming up throughout after last harvest. 12/12/18: Harvested via Selection Cut in 2013 as part of Big Bump Pine, #041-12, TCR 10/9/17. All JP cut, marked RP and WP cut, all hemlock, oak, paper birch and spruce left.  Co Rd 407 forms east boundary of stand. Retained all white birch, red maple, black spruce, hemlock, aspen and oak. Only mark white pine if needed for harvest operability. Red maple, red pine and black spruce regen found.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Log/Pole	12		Red Maple	Low	Variable	Sapling
Red Pine	70	Log/Pole	13	113	White Pine	Medium	Variable	Sapling
					Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
					Jack Pine	Low	< 5 feet	Sapling

<b>92</b>	42210 - Natural Red Pine	Sawtimber Well	50.2	98	81-110	N/A	Some nice pockets of heavier white pine regen, 6 to 12 ft tall. Red pine, white birch, bigtooth aspen, jack pine and red maple regen present. Heavier patches of aspen regen to west. White birch, black spruce, jack pine, hemlock and oak poles found. Stocking is thinner to east. Stand harvested as "Muskallouge Red Pine" (027-02-01). Harvest completed 07/29/05. Pine Ridge ORV Trail passes through stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	76	Log	13	98	Red Pine	Low	5 - 10 feet	Sapling
White Pine	15	Log	13		White Pine	Low	Variable	Sapling
Red Maple	2	Pole/Sapling	5		Red Maple	High	Variable	Sapling
Red Oak	2	Pole	8		Quaking Aspen	High	Variable	Sapling
Paper Birch	5	Pole	7		Bigtooth Aspen	Low	Variable	Sapling
					Jack Pine	Low	Variable	Sapling

<b>93</b>	42120 - Planted Jack Pine	Poletimber Well	16.6	44	51-80	N/A	Planted Spring, 1979 w/ 2-0 JP. JP averages 24-30 ft tall. Rows run north-south. Small patches of 10 to 12 inch Dbh red pine. White birch poles found. Red maple, red pine, white pine and black spruce regen present. Stocking acceptable.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	80	Pole/Sapling	5	44	Red Maple	Medium	Variable	Sapling
Red Pine	5	Log	12		White Pine	Medium	Variable	Sapling
White Pine	10	Log	12		Bracken Fern	High	Unspecified	Non-Wood
Red Maple	5	Pole	6		Common Lowbush Blueberry	High	< 5 feet	Tall Shrub

<b>94</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	14.1	58	51-80	N/A	Stand is part of Mud, Cranberry and Muskallouge wetland complex. Allow natural processes to take place. Stand borders Trout Creek. Muskallouge Lake forms north boundary. Trout Creek riparian zone forms west boundary. Private ownership forms east boundary.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	39	Pole	8	58	Red Maple	Medium	Variable	Sapling
Black Spruce	15	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine	5	Log	14		Black Spruce	Low	10 - 20 feet	Sapling
White Pine	10	Log	14		Paper Birch	Low	5 - 10 feet	Sapling
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Paper Birch	8	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>95</b>	42120 - Planted Jack Pine	Poletimber Well	41.4	47	81-110	N/A	White pine, black spruce, red maple and white birch are infrequent overstory associates. Red pine, white pine, black spruce and white birch regen present. North-south running rows throughout southeast portion of stand, rest natural origin. ORV trail passes through stand.																																																						
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<b>98</b>	42210 - Natural Red Pine	Sawtimber Medium	13.7	121	81-110	N/A	2020: Stand has some regen of mixed species but sparse in areas. Size and age of the stand make it appear to be ready to cut again but holding it may be the best option for the stand.  12/12/18: Harvested via Selection Cut in 2013 as part of Big Bump Pine, #041-12, TCR 10/9/17. All JP cut, marked RP and WP cut, all hemlock, oak, paper birch and spruce left.  Powerline runs along west side of stand. Co Rd 407 runs along east side of stand. Retained oak, red maple, aspen, hemlock, black spruce and white birch. Left white pine unless needed for harvest operability. Black spruce regen present. Stand also within recreation influence zone - ORV trail passes through. Winter parking area in stand.																																																						
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<b>99</b>	122 - Road/Parking Lot	Nonstocked	0.6			No	CO RD 407 ROW.																																																						
<b>101</b>	6124 - Lowland Spruce-Fir	Poletimber Well	35.4	134	81-110	N/A	OPIC - FMD: SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Stand is situated between Cranberry Lake, Muskallonge Lake and Trout Creek. White spruce, red maple, white birch, cedar, jack pine, tamarack and red pine are overstory associates. Small streams bisect the stand as well making access difficult.																																																						
<b>104</b>	42210 - Natural Red Pine	Sawtimber Medium	32.2	79	51-80	N/A	Area was cut over in the early 50's when in PVT ownership. Stand was harvested as Muskallonge Jack Pine (006-02-01). Clusters and solitary red pine sawtimber across site. Low levels of red maple and red pine regen present. Small patches of bigtooth aspen whips. Infrequent white pine and oak poles present.																																																						
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<b>105</b>	42120 - Planted Jack Pine	Poletimber Well	6.5	47	51-80	N/A	2-0 JP planted Spring, 1976. Jack pine approximately 35-45 feet tall. Sparse red pine, trembling aspen, white pine and oak poles present. ORV trail passes through stand.																																																						



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<b>106</b>	42210 - Natural Red Pine	Sawtimber Medium	3.6	76	51-80	N/A	Red pine, some white pine and decent jack pine. White birch poles present. White pine, red pine, jack pine and fir regen found.																																																															
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<b>107</b>	42220 - Natural Jack Pine	Sapling Poor	11.0	9	Immature	N/A	Left all white pine, oak and hemlock and scattered birch, red pine and aspen. part of Muskallonge Pine sale 2012. jack pine regen scattered and moderate.																																																															
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<b>108</b>	42200 - Natural White Pine	Sawtimber Medium	7.4	110	1-50	N/A	Aspen regen is 24 to 32 ft tall. Fir and red maple regen present. white pine still dominant overstory species. ORV trail passes through stand.																																																															
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<b>109</b>	6229 - Mixed lowland shrub	Nonstocked	2.0			No	Wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Wetlands to west of Mud Lake. Wet currently.																																																															
<b>110</b>	6239 - Mixed Emergent Wetland	Nonstocked	2.6		Unspecified	No	Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Wetlands to west of Mud Lake. Wet now, but drier in older imagery. ATVs are forming trails around wetland.																																																															
<b>111</b>	6239 - Mixed Emergent Wetland	Nonstocked	10.7			No	Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Wetlands to north of Mud Lake.																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
112	320 - Upland Shrub	Nonstocked	6.3	0	Unspecified	4212 - Planted Jack Pine	2020 - Check stand, JP isn't looking very well, quite a few seedlings appear to be dead. TMS might need to take a look.  Pine Ridge ORV Trail passes through stand. Powerline Pine #420161201 Trenched in 2016. FTP # 42-889. Planted to JP in trenches 5/9/17. Seedlings appear healthy and red pine volunteers look good 1-10ft. some larger overstory red and white pine left.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Jack Pine	Low	< 5 feet	Sapling					
								Red Pine	Low	5 - 10 feet	Sapling					
								Red Maple	Medium	5 - 10 feet	Sapling					
113	42220 - Natural Jack Pine	Poletimber Medium	53.9	46	51-80	N/A	Cut in 1973-74; sale #12-73A. White birch, red maple, black spruce, red pine and white pine regen present. Red maple, white pine and white birch are infrequent overstory associates. Good stocking. Some patches of J3. Jack pine is approximately 32 feet tall. ORV trail passes through stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Jack Pine	70	Pole/Sapling	5	46	Paper Birch	Low	Variable	Sapling
								Red Pine	10	Log	12	76	White Pine	Medium	Variable	Sapling
								Red Maple	5	Pole	5		Red Maple	Medium	Variable	Sapling
								White Pine	5	Log	13					
								Paper Birch	5	Pole	7					
Black Spruce	5	Pole/Sapling	5													
114	6122 - Black Spruce	Poletimber Well	24.0	155	141-170	N/A	Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Steep ridge around south perimeter of stand. White birch and white pine are infrequent overstory associates. Red maple regen present. Cranberry Lake forms north boundary of stand.									
115	6229 - Mixed lowland shrub	Nonstocked	2.8			No	Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Allow natural processes to take place. Adjacent to Cranberry Lake.									
116	4319 - Mixed Upland Forest	Poletimber Well	10.5	91	111-140	N/A	Very mixed stand. Heavy aspen and red maple regen in most areas. Black and white spruce are infrequent overstory associates. Hemlock and black spruce regen present. Steep ridge across north portion of stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Paper Birch	35	Pole/Log	9	91	Red Maple	High	Variable	Sapling
								Black Spruce	15	Pole	8		Balsam Fir	High	Variable	Sapling
								Quaking Aspen	5	Pole	7		Quaking Aspen	Low	5 - 10 feet	Sapling
								Red Pine	10	Log/XLog	14		White Pine	Low	< 5 feet	Sapling
								Balsam Fir	10	Pole	7		Labrador Tea	Low	< 5 feet	Tall Shrub
								Red Maple	10	Pole	7					
								White Pine	10	Log	12					
								Northern White Cedar	2	Pole	8					
								White Spruce	3	Pole	8					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>117</b>	4311 - Pine, Aspen Mix	Sapling Medium	67.5	9	1-50	N/A	Stand mainly aspen, red maple, some jack and red pine regen with overstory species left from harvest.  Left all white pine, hemlock and oak as well as scattered aspen, maple as reserve trees. T/S 420161201 - Powerline Pine.																																								
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<b>118</b>	4130 - Aspen	Poletimber Well	2.7	117	51-80	N/A	Unique beach influences. Stand lies between Lake Superior beach/bluff and private parcel to south. White and red pine present in overstory. Leave stand to protect lakeshore.																																								