



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41011

Entry Year 2023

Acreage: 1,932

County Schoolcraft

Management Area: Seney Manistique Swamp

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**Stand Examiner:** Mario Molin

## Legal Description:

T45N R16W sections 2, 3, and 11

## Identified Planning Goals:

To provide multiple use benefits for the citizens of Michigan.

## Soil and topography:

Much of the compartment is poorly drained sands (Newton and Saugatuck), with loamy fine sand in the upland.

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

The Seney NWR is along the east side of the compartment, the rest of the compartment is surrounded by State ownership.

## Unique Natural Features:

None known at this time.

## Archeological, Historical, and Cultural Features:

The fireline from the 1976 Seney fire can be seen along the east side of the compartment.

## Special Management Designations or Considerations:

None known at this time.

## Watershed and Fisheries Considerations:

This compartment contains the Creighton River and unnamed streams that serve as tributary to the Creighton River. The Creighton River and unnamed tributaries are non-designated streams less than 50' width and have predicted mean July temperatures that range from 57.7 to 64.8 °F (cold streams). 100' plus 5' per 1% increase in slope; buffers are recommended for these streams to protect these areas in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46 degrees F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes show this to be one of the areas that contained a fair amount of aspen at the time of the original survey. Lowland forest contained cedar, aspen, tamarack, white pine, and black spruce. Upland knolls held a combination of white birch, hemlock, red maple, balsam fir, and white pine. Surveyors recorded several areas of windthrow. Beaver ponds also occurred along the Creighton Creek and its feeder streams. Current forest types are heavy toward aspen and jack pine. However, there remains a fair amount of white pine across the compartment. Many of the lowland forest are similar in species composition to the presettlement forest with tamarack, black spruce, cedar, aspen, red maple, and white pine. Wildlife habitat objectives include maintaining age and structural diversity between conifer stands, increasing the amount of hard mast available, providing travel corridors, protecting stream corridors, and promoting tree species diversity. Gray wolves (Federal and Michigan endangered) and moose (Michigan special concern) have been recorded within this compartment. Other species of interest include American woodcock, indigo bunting, mink, and snowshoe hare.

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is minor local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subgroups below the glacial drift. The Black River is used for stone/dolomite. The nearest gravel pit is 5 miles to the northwest. There appears to be limited gravel potential. There is no commercial oil and gas production in the UP. The west half of Section 3 is surface only.

## Vehicle Access:

The Creighton River marsh prevents vehicle access through much of the compartment. Access to this compartment on the east side is mostly along the S. Creighton Truck Trail with multiple 2-tracks spurring into the compartment. The west

side is accessed from a 2-track that comes in off of the Hartman Camp Road in compartment 158. Access from the south is from compartment 15 just south of the Creighton River bridge; multiple 2 tracks weave into the compartment, most of which are overgrown and no longer drivable.

**Survey Needs:**

None known at this time.

**Recreational Facilities and Opportunities:**

Hunting and mushroom picking often occur.

**Fire Protection:**

Access to fires could be difficult especially on the west side and interior of the compartment. See "Vehicle Access" for more information.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

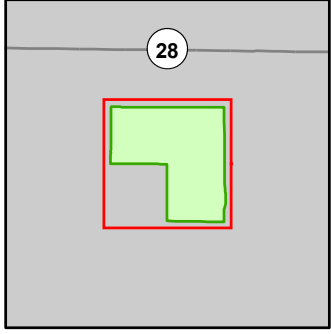
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

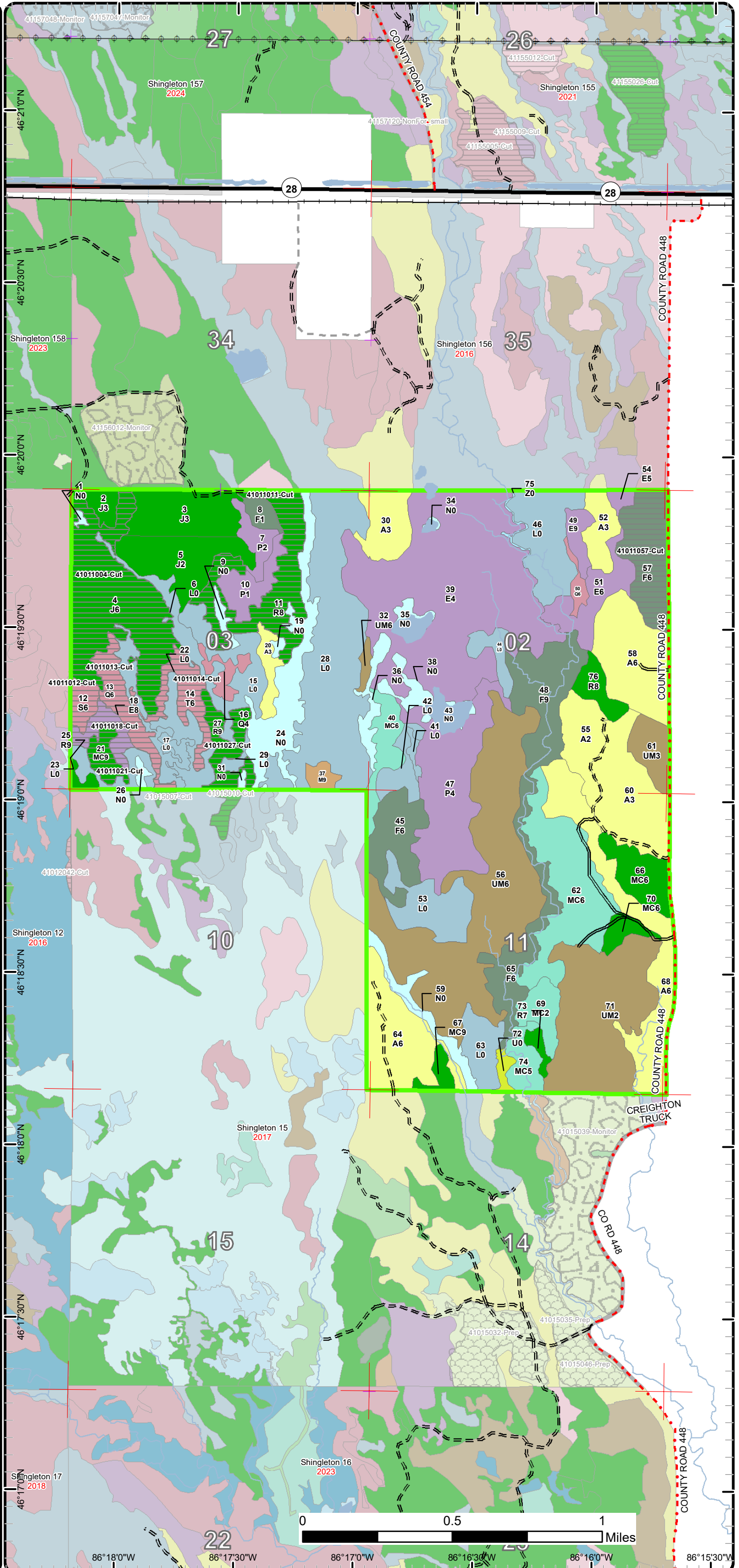
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 11  
 T45N, R16W, Sec. 2, 3, 11, 12  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2023  
 Acres: 1932.4 GIS Calculated  
 Examiner: Mario Molin  
 Map Revised: 1/28/2022  
 Map Phase: Post Review



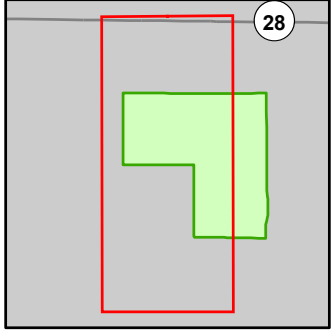
- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- .-.- County - Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
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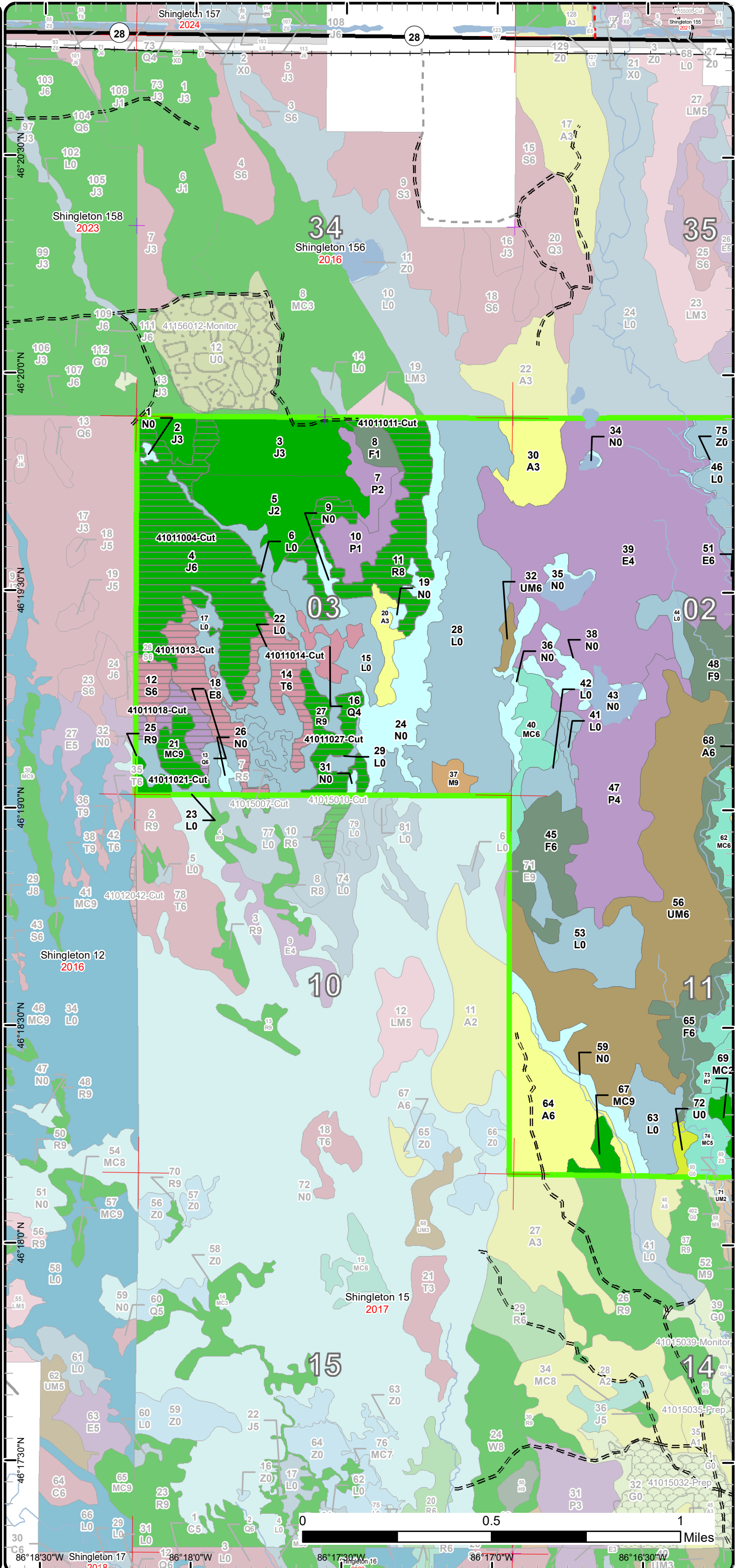
86°18'0"W 86°17'30"W 86°17'0"W 86°16'30"W 86°16'0"W 86°15'30"W

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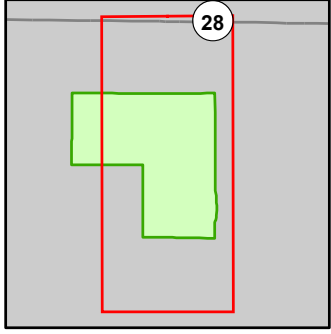


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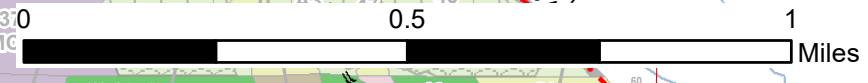
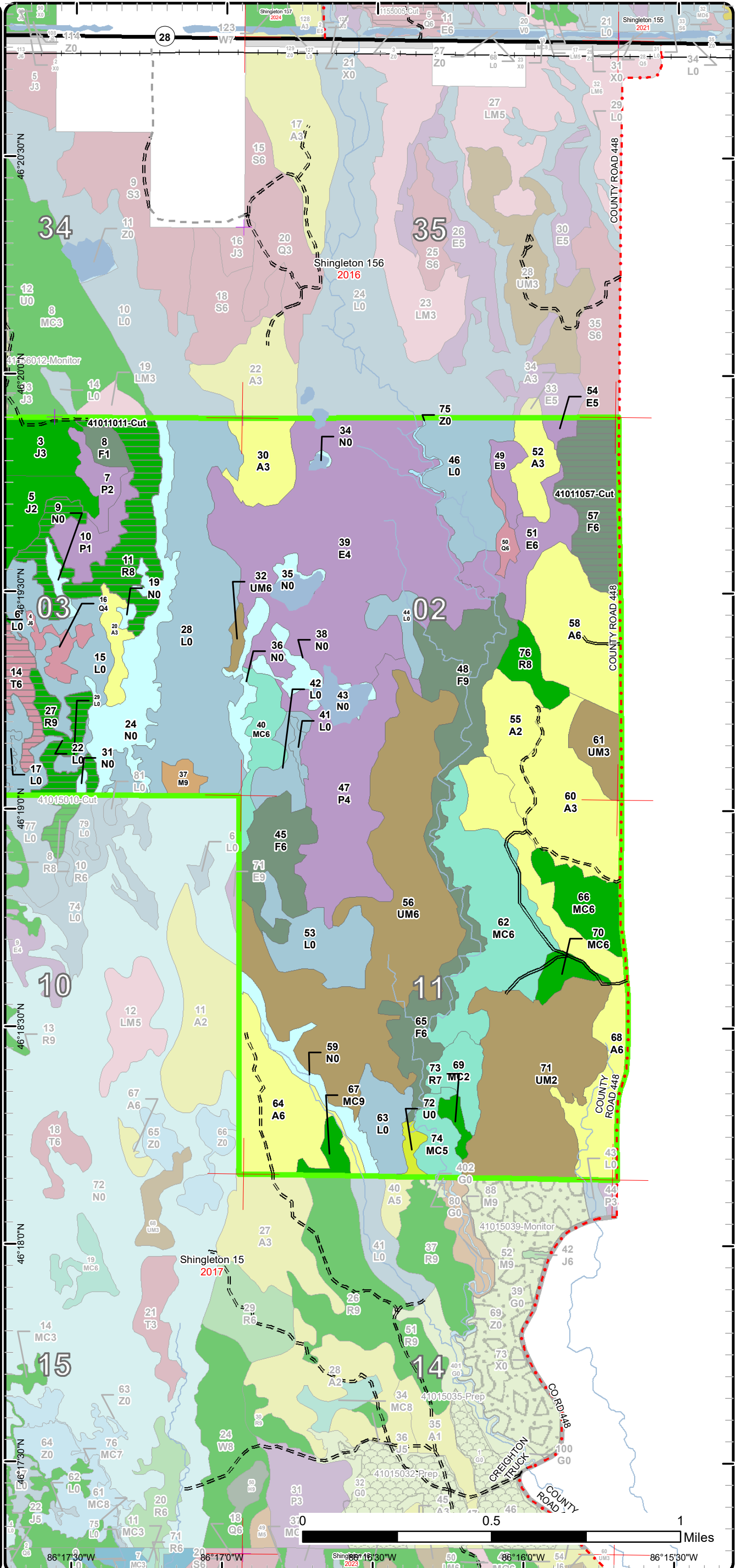


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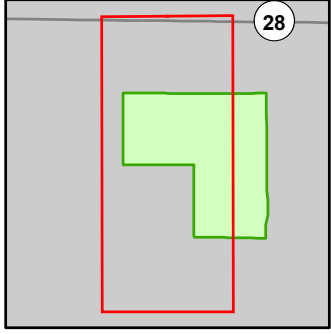
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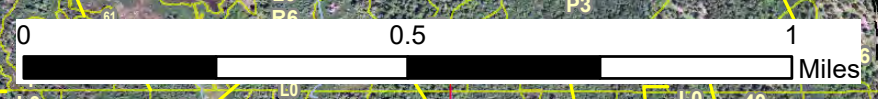
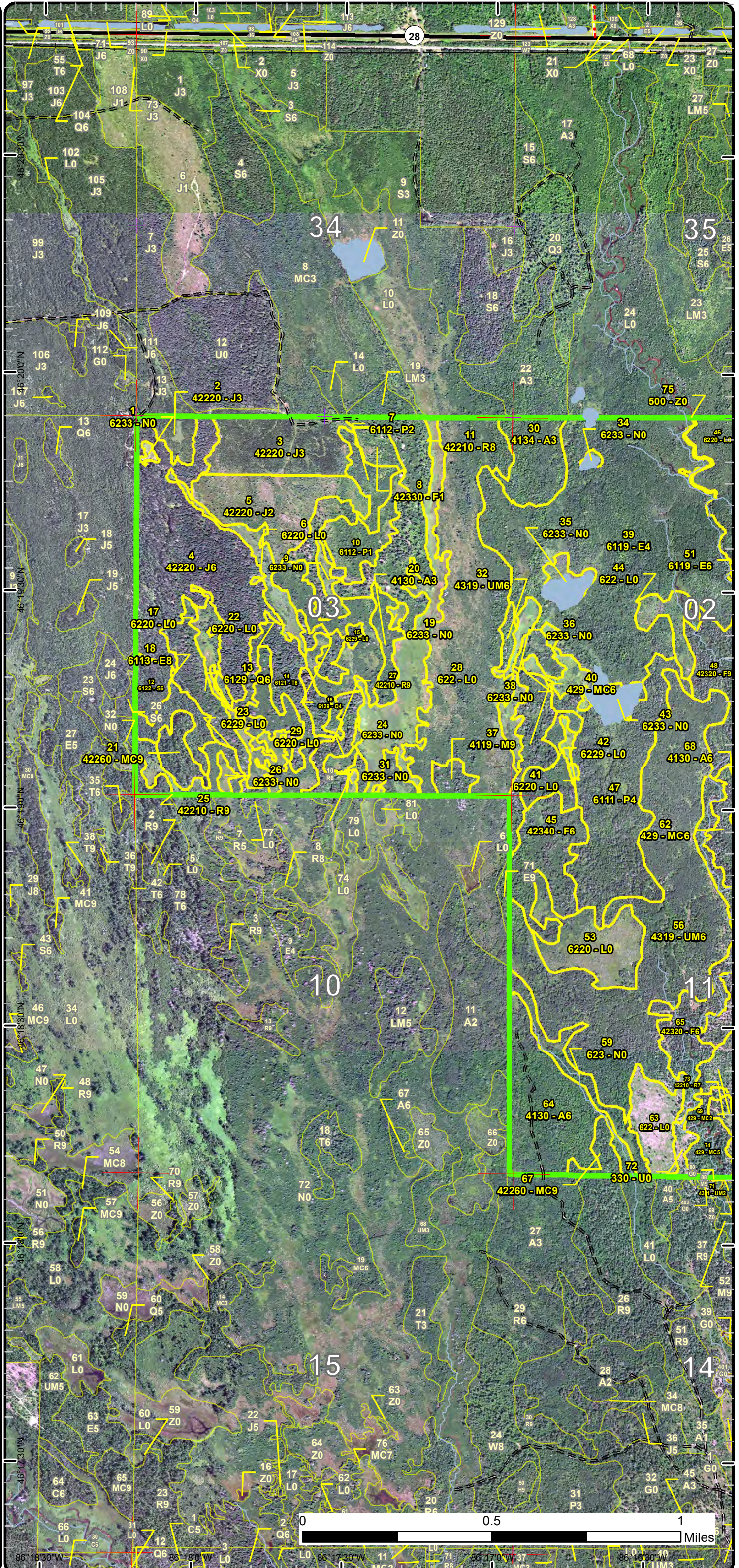
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# Stand Boundary Map

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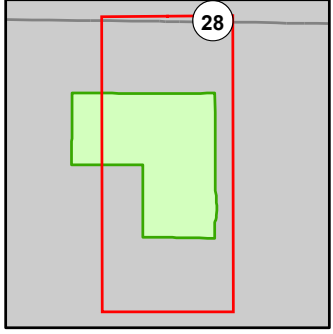


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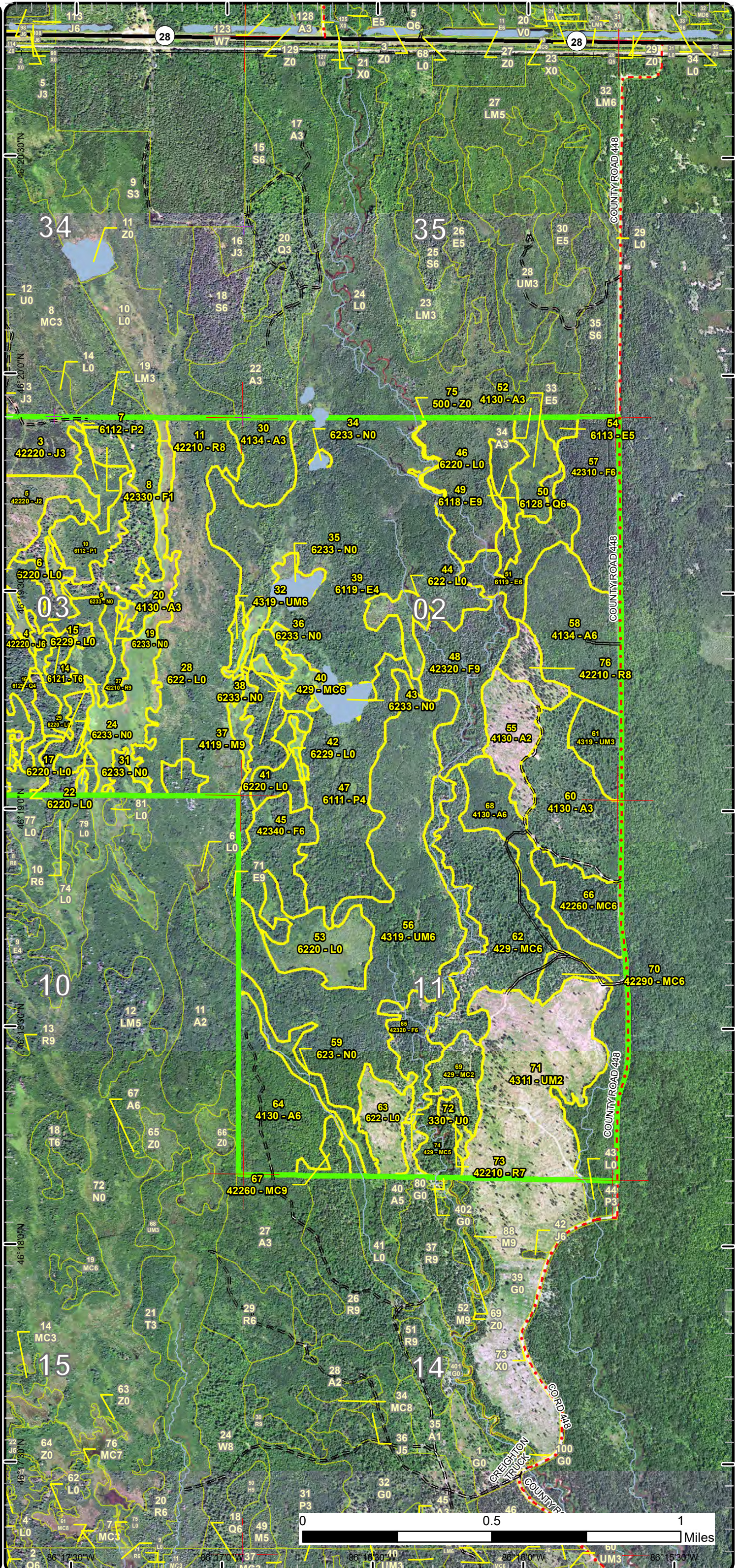


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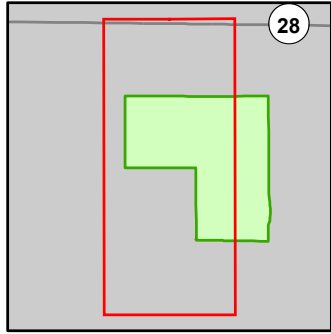


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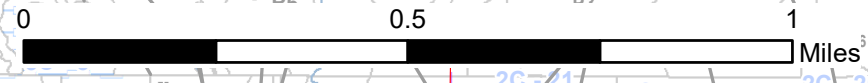
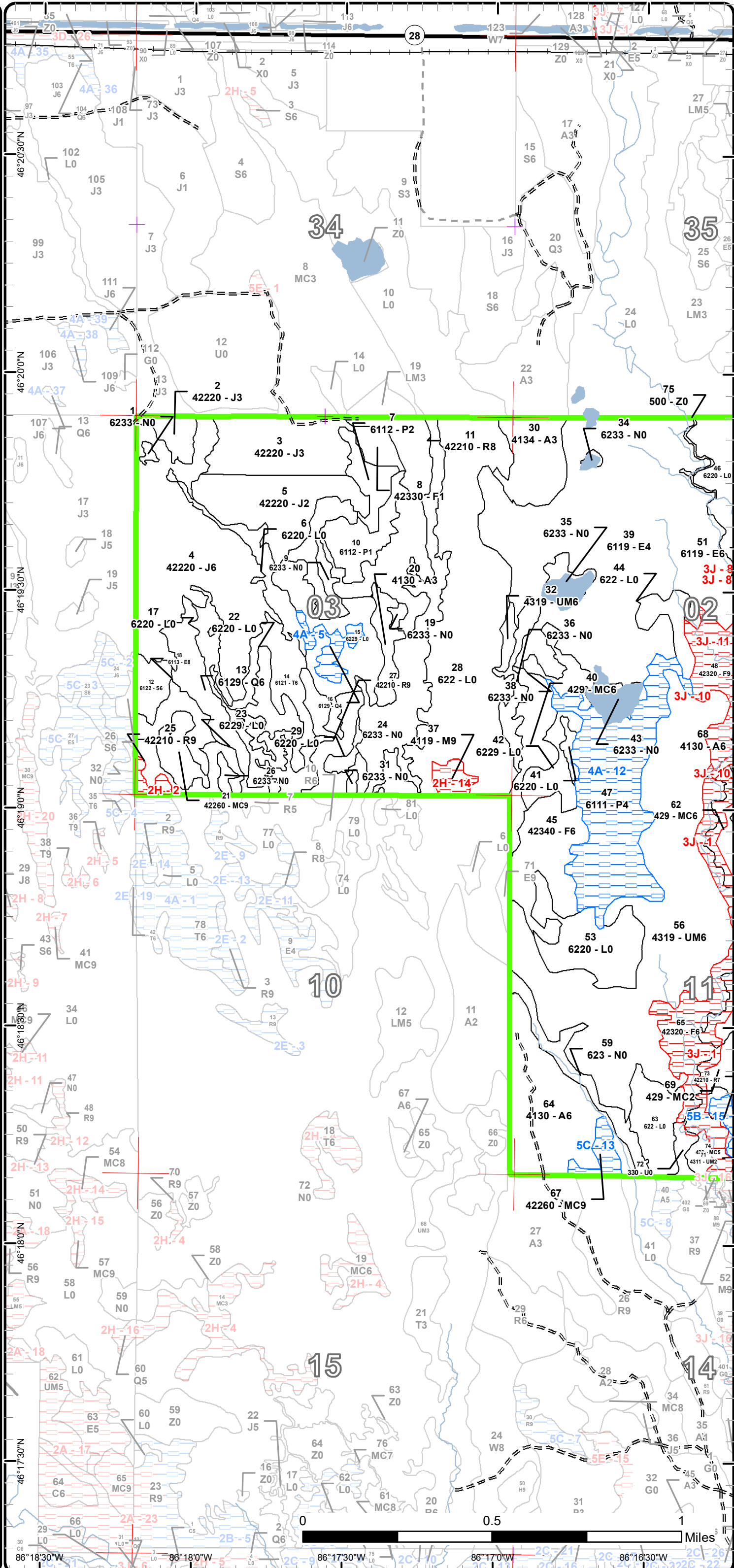


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- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams

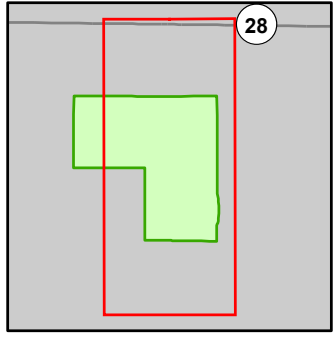


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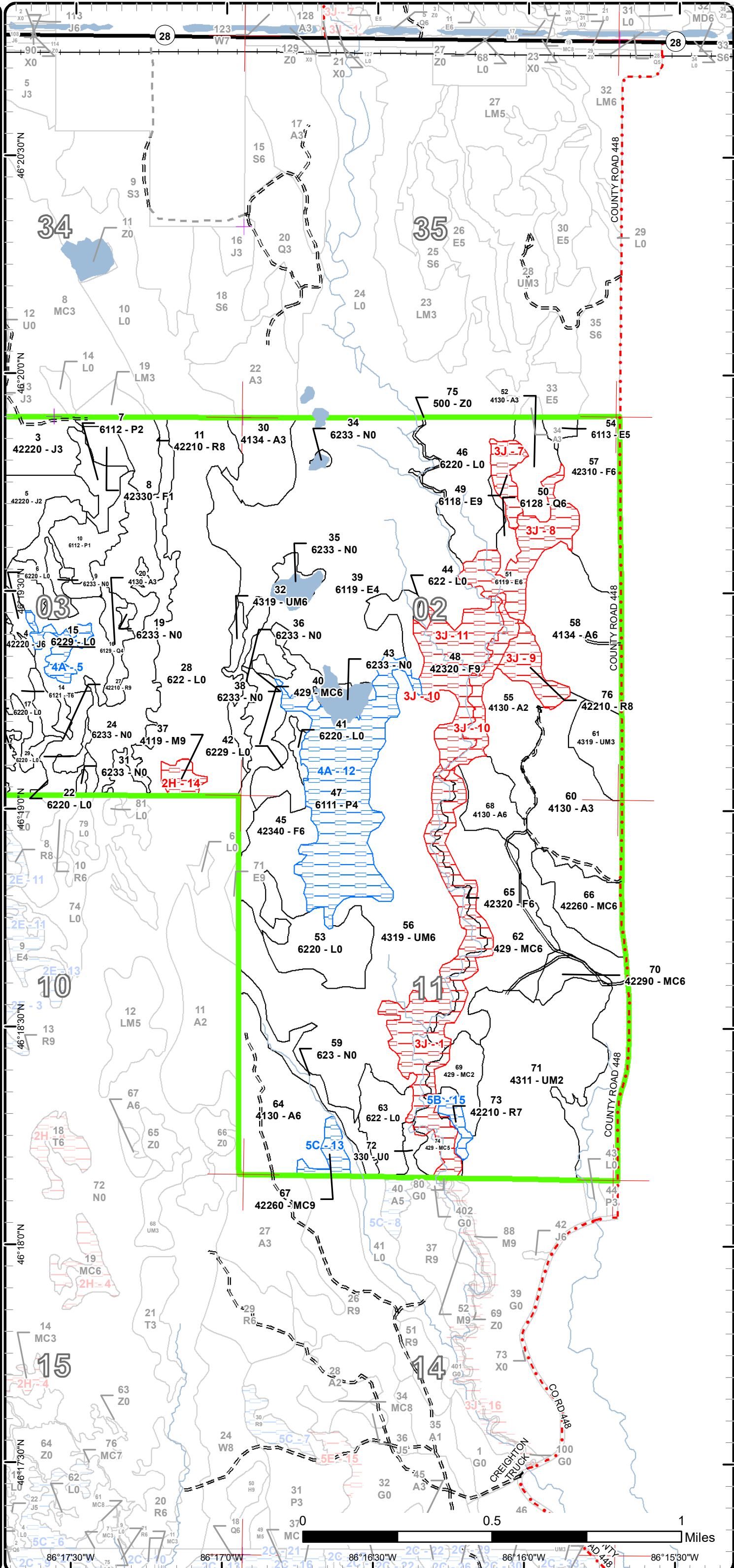


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- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams



1 Miles

86°17'30"W 86°17'0"W 86°16'30"W 86°16'0"W 86°15'30"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	24	73	0	85	100	0	0	0	0	0	0	0	0	0	0	0	0	282
Jack Pine	0	0	37	43	0	0	0	0	0	89	0	0	0	0	0	0	0	0	168
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	0	26	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	98
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	5	0	0	32
Lowland Deciduous	0	0	0	0	0	0	0	204	3	0	24	0	0	0	8	0	0	0	239
Lowland Shrub	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	314
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Marsh	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Natural Mixed Pines	0	0	0	0	0	0	8	0	22	0	0	0	0	0	0	10	0	6	46
Northern Hardwood	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	0	0	0	0	0	15	0	49	3	0	18	0	0	85
Tamarack	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Upland Conifers	0	0	0	79	0	0	0	0	13	0	18	0	0	0	0	0	0	0	110
Upland Mixed Forest	0	94	0	16	156	0	0	0	3	0	0	0	0	0	0	0	0	0	269
Upland Spruce/Fir	0	0	6	0	0	31	0	38	0	77	0	0	0	0	0	0	0	0	152
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>417</b>	<b>118</b>	<b>142</b>	<b>138</b>	<b>241</b>	<b>136</b>	<b>8</b>	<b>242</b>	<b>113</b>	<b>166</b>	<b>112</b>	<b>0</b>	<b>49</b>	<b>3</b>	<b>8</b>	<b>33</b>	<b>0</b>	<b>6</b>	<b>1930</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 11

Total Compartment Acres: 1,932

Commercial Harvest - 262  
 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	89	0	0	0	0	0	0	0	0	89
Lowland Conifers	20	0	0	0	0	0	0	0	0	20
Lowland Deciduous	11	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	10	0	0	0	0	0	0	0	0	10
Red Pine	67	0	0	0	0	0	0	0	0	67
Tamarack	19	0	0	0	0	0	0	0	0	19
Upland Spruce/Fir	38	0	0	0	0	0	0	0	0	38
<b>Total</b>	<b>262</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>262</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	262	0	0	0	0	0	0	0	0	262
Next Step	0	127	0	0	0	262	0	0	0	390
<b>Total</b>	<b>262</b>	<b>127</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>262</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>652</b>



Stand Name	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>4</b>	<b>41011004-Cut</b>	89.2	42220 - Natural Jack Pine	Poletimber Well	80	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Retention could be easily put against stand 2 and 3. This will mitigate any green up issues.  <u>Specs:</u> winter harvest.  <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Jack pine and other species  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>11</b>	<b>41011011-Cut</b>	48.9	42210 - Natural Red Pine	Sawtimber Medium	110	1-50	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Clear cut with retention, retention will be fingers left off with line work.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Mix of upland species  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>12</b>	<b>41011012-Cut</b>	8.1	6122 - Black Spruce	Poletimber Well	93	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut. No retention due to size.  <u>Specs:</u> winter harvest.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Black spruce and other species.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</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>13</b>	<b>41011013-Cut</b>	19.8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Clear cut with retention.  
Specs: Stand may not be viable to harvest at time of prep. tamarack is dying and is a large component of stand. re-evaluate during prep.

winter harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>14</b>	<b>41011014-Cut</b>	19.4	6121 - Tamarack	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
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Prescription Clear cut with retention.  
Specs: Tamarack is dying and is a large portion of stand. During prep. re-evaluate is still viable to harvest.

winter harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>18</b>	<b>41011018-Cut</b>	11.2	6113 - Lowland Maple	Sawtimber Medium	61	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
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Prescription clear cut with edge retention.

Specs: winter harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of trees.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

S  
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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>21 41011021-Cut</b>	9.7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	142	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<u>Prescription</u> Clearcut with edge retention. <u>Specs:</u> Winter harvest  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable</u> Pine. <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
<b>27 41011027-Cut</b>	18.0	42210 - Natural Red Pine	Sawtimber Well	141	81-110	Harvest	Clearcut with Retention	42210 - Natural Red Pine	Even-Aged	No
<u>Prescription</u> Clearcut with edge retention <u>Specs:</u> Winter harvest  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable</u> Red pine <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
<b>57 41011057-Cut</b>	38.0	42310 - Planted Spruce	Poetimber Well	69	51-80	Harvest	Clearcut with Retention	42340 - Upland Spruce/Fir	Even-Aged	No
<u>Prescription</u> Clear cut down to 2 inches with retention. <u>Specs:</u> .  <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate) <u>Treatments:</u>  <u>Acceptable</u> Spruce, fir and other species. <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										

**Total Treatment** 262.3  
**Acreage Proposed:**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Mario Molin : Examiner

Compartment: 11  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions					
		With Condition	Not Available		4A	5B	5C	2H	3J
282	282	0	0	Aspen					
169	169	0	0	Jack Pine					
4	4	0	0	Low-Density Trees					0
97	25	72	0	Lowland Aspen/Balsam Poplar	72				
32	24	8	0	Lowland Conifers	8				
240	208	0	33	Lowland Deciduous					33
314	314	0	0	Lowland Shrub					
8	8	0	0	Lowland Spruce/Fir					
98	98	0	0	Marsh					
46	40	6	0	Natural Mixed Pines			6		
5	0	0	5	Northern Hardwood				5	
85	67	4	15	Red Pine		4		3	11
19	19	0	0	Tamarack					
110	86	0	23	Upland Conifers					23
269	269	0	0	Upland Mixed Forest					0
152	75	0	77	Upland Spruce/Fir					77
1	1	0	0	Water					
1,932	1,689	90	154	Total Forested Acres	79	4	6	9	145
	87%	5%	8%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	58	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> River buffer will remove most area.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 11

Year of Entry: 2023

2	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	12	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 11

Year of Entry: 2023

11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	72	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> cut with stand in adjacent compartment.							
14	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	4	Unspecified	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

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Mgt. Unit

Compartment:

Year of Entry



## 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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
1	6233 - Wet Meadow	Nonstocked	1.0		Unspecified	No																																
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2	42220 - Natural Jack Pine	Sapling Well	7.6	24	Immature	N/A																																
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4	42220 - Natural Jack Pine	Poletimber Well	89.2	80	81-110	N/A																																
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Black Spruce	20	Sapling	1																																			
6	6220 - Alder/willow	Nonstocked	11.8		Unspecified	No																																
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7	6112 - Lowland Aspen	Sapling Medium	9.8	16	Immature	N/A																																
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8	42330 - Upland Fir	Sapling Poor	6.1	16	1-50	N/A																																															
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9	6233 - Wet Meadow	Nonstocked	3.6		Unspecified	No																																															
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10	6112 - Lowland Aspen	Sapling Poor	15.6	16	Immature	N/A	A few red maple and white pine leftover from the harvest.																																														
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11	42210 - Natural Red Pine	Sawtimber Medium	48.9	110	1-50	N/A	Recently cut, narrow ridge with low spots that are filling in with aspen and spruce in the wetter sites.																																														
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12	6122 - Black Spruce	Poletimber Well	8.1	93	51-80	N/A																																															
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13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.8	92	81-110	N/A																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	6121 - Tamarack	Poletimber Well	19.4	92	81-110	N/A	in decline
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		20	Pole	8		Red Maple	
Red Maple		5	Sapling/Pole	4		Black Spruce	
Tamarack		75	Pole	8	92		
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
15	6229 - Mixed lowland shrub	Nonstocked	28.3		Unspecified	No	
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
16	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	7.6	98	1-50	N/A	Isolated and hard to access.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		15	Pole	6		Alder	
Red Maple		15	Pole	6		Tamarack	
Jack Pine		15	Pole	6		Red Maple	
Tamarack		40	Pole	8	98		
White Pine		15	Log	10			
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
17	6220 - Alder/willow	Nonstocked	17.1		Unspecified	No	
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
18	6113 - Lowland Maple	Sawtimber Medium	11.2	61	51-80	N/A	Mix of low quality red maple and tamarack and mixed with tag alder and willow.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Tamarack		5	Pole	5		Red Pine	
Black Spruce		10	Pole	6		Balsam Fir	
Paper Birch		5	Pole	5			
Red Maple		80	Log/Pole	10	61		
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
19	6233 - Wet Meadow	Nonstocked	1.3		Unspecified	No	
						<b>Density</b>	<b>Avg. Height</b>
							<b>Size</b>
20	4130 - Aspen	Sapling Well	9.0	16	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		90	Sapling	1	16		
Red Maple		10	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
21	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.7	142	81-110	N/A																																											
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24	6233 - Wet Meadow	Nonstocked	43.0		Unspecified	No																																											
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25	42210 - Natural Red Pine	Sawtimber Well	3.3	124	81-110	N/A																																											
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26	6233 - Wet Meadow	Nonstocked	2.0		Unspecified	No																																											
27	42210 - Natural Red Pine	Sawtimber Well	18.0	141	81-110	N/A	Red pine is very tall (8 sticks) this stand is isolated and very difficult to access, old oi data suggests adding it into an old growth classification, this does not currently meet our old growth criteria. Stand was prescribed 30 years ago and carried over every entry and never was cut.																																										
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30	4134 - Aspen, Spruce/Fir	Sapling Well	22.0	32	1-50	N/A																																																		
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32	4319 - Mixed Upland Forest	Poletimber Well	3.2	78	1-50	N/A	Isolated stand in very hard to access area.																																																	
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37	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.3	46	51-80	N/A	Small island almost impossible to access for logging, especially since it is low quality/volume/and acreage. Seems to be converting over to red maple.																																							
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39	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	193.2	68	1-50	N/A																																								
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40	429 - Mixed Upland Conifers	Poletimber Well	17.6	91	81-110	N/A	Some aspen to the south, overall the area is low quality and density. Is another difficult to access area.																																							
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41	6220 - Alder/willow	Nonstocked	2.3		Unspecified	No																																								
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42	6229 - Mixed lowland shrub	Nonstocked	11.5		Unspecified	No	Scattered scraggly trees.																																							
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43	6233 - Wet Meadow	Nonstocked	6.0		Unspecified	No																																								
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Tag Alder	Trace		Tall Shrub																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
44	622 - Lowland Shrub	Nonstocked	9.5		Unspecified	No	BAM is scattered in the south end of the stand.  Site may be drying up, the tag alder and other brush seems to be dying.				
								Sub-Canopy Species	Density	Avg. Height	Size
								American Elm	Low		Log
								Black Ash	Low		Pole
								Balsam Fir	Low		Pole
White Spruce	Trace		Pole								
45	42340 - Upland Spruce/Fir	Poletimber Well	30.7	47	1-50	N/A					
	Canopy Species	% Cover	Size Class	DBH	Age						
	White Spruce	45	Pole/Sapling	5							
	Balsam Fir	50	Pole/Sapling	5	47						
	Balsam Poplar	5	Pole/Sapling	5							
46	6220 - Alder/willow	Nonstocked	38.5		Unspecified	No					
								Sub-Canopy Species	Density	Avg. Height	Size
								Tag Alder	Low		Tall Shrub
	Tamarack	Low		Sapling							
47	6111 - Lowland Balsam Poplar	Poletimber Poor	71.9	76	51-80	N/A					
	Canopy Species	% Cover	Size Class	DBH	Age						
	White Spruce	15	Pole	6							
	Balsam Fir	10	Pole/Sapling	5							
	Red Maple	5	Pole/Sapling	5							
	Balsam Poplar	70	Pole	8	76						
	Sub-Canopy Species	Density	Avg. Height	Size							
	White Spruce	Low	Variable	Sapling							
	Balsam Fir	Low	Variable	Sapling							
	Red Maple	Medium	Variable	Sapling							
48	42320 - Upland Spruce	Sawtimber Well	43.2	81	51-80	N/A					
	Canopy Species	% Cover	Size Class	DBH	Age						
	Balsam Fir	40	Pole	6							
	White Spruce	60	Log/Pole	11	81						
	Sub-Canopy Species	Density	Avg. Height	Size							
	White Spruce	Low	Variable	Sapling							
	Balsam Fir	Low	Variable	Sapling							
49	6118 - Lowland Deciduous with Cedar	Sawtimber Well	8.3	138	51-80	N/A					
	Canopy Species	% Cover	Size Class	DBH	Age						
	Northern White Cedar	40	Log	12	138						
	Paper Birch	5	Pole	5							
	American Elm	30	Pole	5							
	Black Ash	20	Pole	5							
	Red Maple	5	Pole	5							
	Sub-Canopy Species	Density	Avg. Height	Size							
	Balsam Fir	Low	Variable	Sapling							
	Red Maple	Low	Variable	Sapling							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**50** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 4.5 141 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		Red Maple	Low	Variable	Sapling
Red Maple	25	Pole	8		Balsam Fir	Low	Variable	Sapling
White Pine	30	Log	16	141				
Balsam Fir	15	Pole	6					
White Spruce	20	Pole	6					

**51** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 24.3 90 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole	9		Ash (spp.)	Low	Variable	Sapling
Paper Birch	35	Pole	9		Balsam Fir	Low	Variable	Sapling
Black Ash	20	Pole	9		Red Maple	Low	Variable	Sapling
Red Maple	35	Pole	9	90				

**52** 4130 - Aspen Sapling Well 14.6 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	100	Sapling	3	17

**53** 6220 - Alder/willow Nonstocked 29.4 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low		Tall Shrub

**54** 6113 - Lowland Maple Poletimber Medium 3.3 71 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	3	Pole	6		Alder	Low	Variable	Tall Shrub
Red Maple	95	Pole	6	71	Red Maple	Low	Variable	Sapling
White Pine	2	Pole	6					

**55** 4130 - Aspen Sapling Medium 23.8 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	1	6	Jack Pine	Medium	< 5 feet	Sapling
					Black Cherry	Medium	< 5 feet	Sapling

41-014-13-01 unit 1 TCR 1/7/16  
Scarified by Holli: 7/15/16, only this unit. Passed regen check fall 2019.  
Stand has lots of aspen and cherry along with Jack pine.

**56** 4319 - Mixed Upland Forest Poletimber Well 155.5 30 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole	7		Red Maple	Low	Variable	Sapling
Quaking Aspen	55	Pole	5	30	Balsam Fir	Low	Variable	Sapling
Balsam Fir	35	Pole	7		Willow spp.	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>57</b>	42310 - Planted Spruce	Poletimber Well	38.0	69	51-80	N/A	plantation with failed portions naturally filled in with spruce, aspen, fir
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	75	Pole	6	69	Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole	6		Quaking Aspen	Low	Variable	Sapling
Black Spruce	10	Pole	6		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	10	Pole	8					

<b>58</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	50.8	43	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Sapling	4		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	70	Pole	5	43	White Spruce	Low	Variable	Sapling
Balsam Fir	20	Sapling	4		White Pine	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling

<b>59</b>	623 - Emergent Wetland	Nonstocked	14.0		Unspecified	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub
Willow spp.	Medium		Tall Shrub
Black Spruce	Low		Pole

<b>60</b>	4130 - Aspen	Sapling Well	49.8	17	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Sapling	1	17	Jack Pine	Low	Variable	Sapling
White Pine	5	Log	14		Black Spruce	Low	Variable	Sapling
White Spruce	10	Sapling	3					

<b>61</b>	4319 - Mixed Upland Forest	Sapling Well	16.1	25	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Sapling	2		White Pine	Low	< 5 feet	Sapling
Quaking Aspen	35	Sapling	3	25	Black Spruce	Low	< 5 feet	Sapling
White Pine	14	XLog/Log	22	101				
Black Spruce	10	Sapling	2					
Red Maple	10	Sapling	3					
White Pine	16	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**62** 429 - Mixed Upland Conifers Poletimber Well 65.3 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	25	Pole/Sapling	5	25
Balsam Fir	20	Pole/Sapling	5	25
Jack Pine	25	Pole/Sapling	5	
White Spruce	20	Sapling	4	
Black Spruce	10	Sapling	4	

**63** 622 - Lowland Shrub Nonstocked 17.6 2021 Unspecified 612 - Lowland Coniferous Forest Regenerating nicely. 41-014-13-01. unit 2. TCR 1/7/16

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling

**64** 4130 - Aspen Poletimber Well 49.1 43 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Pole	6	43	Black Cherry	Low	Variable	Sapling
White Spruce	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Red Maple	10	Pole	8		Red Maple	Low	Variable	Sapling

**65** 42320 - Upland Spruce Poletimber Well 33.9 83 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	6		Quaking Aspen	Low	Variable	Sapling
White Spruce	75	Pole	8	83	Red Maple	Low	Variable	Sapling
Quaking Aspen	10	Pole	5					

**66** 42260 - Natural Pine, Mixed Deciduous Poletimber Well 22.3 73 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	45	Pole	8	73	Red Maple	Low	Variable	Sapling
Quaking Aspen	40	Pole	8		White Spruce	Low	Variable	Sapling
White Pine	15	Log	10					

**67** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 6.2 102 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Pole	6		Balsam Fir	Medium	Variable	Sapling
White Pine	30	Log	14		White Pine	Low	Variable	Sapling
Red Pine	31	Log	14	102	Quaking Aspen	Medium	Variable	Sapling
Red Maple	20	Pole	6					
Black Spruce	4	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>68</b>	4130 - Aspen	Poletimber Well	62.7	37	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		5	Pole	5		Density	Avg. Height
Quaking Aspen		85	Pole	5	37	Low	Variable
Black Spruce		5	Pole	5		Low	Variable
Red Pine		5	Pole	5		Low	Variable
							Size
							Sapling
							Sapling
							Sapling

<b>69</b>	429 - Mixed Upland Conifers	Sapling Medium	13.9	23	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		20	Sapling	4			
Jack Pine		30	Sapling	4	23		
Balsam Fir		20	Sapling	3			
Quaking Aspen		30	Sapling	3	23		

<b>70</b>	42290 - Natural Mixed Pine	Poletimber Well	7.6	52	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Spruce		35	Sapling	4		Density	Avg. Height
White Pine		10	Sapling	4		Low	Variable
Quaking Aspen		5	Sapling	4		Medium	Variable
Jack Pine		50	Pole	5	52	Medium	Variable
							Size
							Sapling
							Sapling
							Sapling

<b>71</b>	4311 - Pine, Aspen Mix	Sapling Medium	94.4	5	Immature	N/A	41-014-13-01 unit 4.TCR - 1/7/16trenched summer 2016Planted spring of 2017 with JP
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		50	Sapling	1	5		
Jack Pine		50	Sapling	1	5		

<b>72</b>	330 - Low-Density Trees	Nonstocked	3.9		Unspecified	No	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Bigtooth Aspen		Low		Pole			
Paper Birch		Low		Pole			
Jack Pine		Low		Pole			

<b>73</b>	42210 - Natural Red Pine	Sawtimber Poor	4.0	98	51-80	N/A	41-014-13-01 Unit 3. TCR 1/7/16 Scarified by Holli: 7/15/16 Passed regen check fall 2019. Stand has lots of aspen and cherry along with Jack pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		100	Log	16	98	Density	Avg. Height
						Low	Variable
						Low	Variable
						High	< 5 feet
						Low	Variable
							Size
							Sapling
							Sapling
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**74**      429 - Mixed Upland Conifers      Poletimber Medium      12.8      76      1-50      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Pole	7		Balsam Fir	Low	Variable	Sapling
Paper Birch	20	Pole/Log	9		White Pine	Medium	Variable	Sapling
Jack Pine	10	Pole	7		Red Maple	Low	Variable	Sapling
Red Maple	20	Pole	7	76				
Red Pine	15	Pole/Log	9					
White Spruce	15	Pole	6					

**75**      500 - Water      Nonstocked      1.4      Unspecified      No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low		Tall Shrub
Tamarack	Low		Sapling

**76**      42210 - Natural Red Pine      Sawtimber Medium      11.2      98      1-50      N/A

41-014-13-01 unit 1 TCR 1/7/16  
Scarified by Holli: 7/15/16, only this unit. Passed regen check fall 2019.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	16	98	Quaking Aspen	Medium	5 - 10 feet	Sapling