



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41023

Entry Year 2023

Acreage: 2,062

County Schoolcraft

Management Area: Seney Manistique Swamp

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**Stand Examiner:** Thomas Burnis

## Legal Description:

T44N R16W, Sections 12, 13, 14, 15

## Identified Planning Goals:

The main goal of this compartment is to conduct multiple resource management for current and future generations.

## Soil and topography:

The topography within the compartment is mostly flat. Elevation values range between 666-676 feet. The majority of the land is non-forested marsh. Almost all of the forested land is islands of natural red pine, jack pine, or white pine surrounded by marsh. The two most abundant soils are Markey Mucky Peat and Deford-Meehan-Seney Complex.

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

: State land within this compartment was acquired between 1939 and 1945. The compartment boundary borders private and state land. Structures on private land nearby are camps. The compartment is used mostly by hunters, ORV users, and snowmobile riders.

## Unique Natural Features:

Rich Conifer Swamp: Sec.14,15  
Dry Northern Forest: Sec14,15  
Patterned Fen: Sec 14,15  
Northern Wet Meadow: Sec 15

## Archeological, Historical, and Cultural Features:

None Known

## Special Management Designations or Considerations:

## Watershed and Fisheries Considerations:

The western region of this compartment contains Hay Meadow Creek and several small unnamed waterbodies less than three acres in size. The eastern region of this compartment contains the West Branch of Hickey Creek, Hickey Creek, and Section Nineteen Creek.

Hay Meadow Creek is a non-designated stream less than 50' width and has a predicted mean July temperature of 63.0 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for Hay Meadow Creek and the unnamed waterbodies to protect these areas in accordance with Best Management Practices.

The West Branch of Hickey Creek and Hickey Creek are designated Type 1 trout streams less than 50' width and have predicted mean July temperatures that range from 62.1 to 65.1 °F (cold streams). 300' buffers are recommended for the West Branch of Hickey Creek and Hickey Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Section Nineteen Creek is a non-designated stream less than 50' width and has a predicted mean July temperature of 61.9 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for Section Nineteen Creek 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 F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes show marsh and low pine ridges to be the dominant

landforms in the western portion of the compartment. The ridges held primarily red pine and white pine with some aspen and white birch mixed in. Forested lowlands contained spruce, tamarack, and white birch. The open marshlands contained cranberry, and various grasses and sedges. The eastern portion of the compartment contains more upland. The surveyor notes show this upland portion of the compartment held a mix of white birch, balsam fir, red and white pines, elm, cedar, and red maple. Lower areas contained ash, elm, aspen, red maple, birch and fir. Beaver ponds along the Hay Meadow, W. Branch of the Hickey, and the Hickey Creeks played an important role in the ecology of the area. Wildfire and windthrow also provided natural disturbances within the compartment. The western 2/3rd of the compartment is quite similar to the presettlement conditions, containing red and white pine on the ridges within the marsh. The eastern 1/3rd of the compartment contains deciduous forest that is similar in species composition to presettlement conditions, but also contains aspen strips that are quite dissimilar to circa 1850 conditions.

Wildlife habitat objectives include protecting the sensitive marsh ecology through the oldgrowth designation, maintaining species and structural diversity within the northern hardwood stands, and converting the aspen strips to a more natural looking stand juxtaposition. Signs of gray wolves (Federal and Michigan endangered) and moose (Michigan special concern) have been observed within this compartment. Other species of interest include common snipe, American bittern, bobcat, and black bear.

### **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 metallic mineral potential in this area. No active sand/gravel pits are known to occur in the area, and potential for any non-metallic mineral development within the compartment appears to be limited by the number of wetlands in the area as well as other factors. There is no other known mineral potential within the compartment, and no current mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights. Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica and Collingwood Shales and Trenton Limestone subcrop below the glacial drift. The Trenton is used for stone/dolomite. The nearest gravel pit is 7 miles to the south and potential appears to be limited. A clay pit is located 5 miles to the south. There is no commercial oil and gas production in the UP.

### **Vehicle Access:**

Vehicle access is decent to the all land northeast of Section Nineteen Creek. Vehicle access to all land that lies between Hickey Creek and Section Nineteen Creek is limited to private landowners and DNR staff. The DNR recently acquired a management easement through private parcels in Section 13. Vehicle access to all land west of the West Branch Hickey Creek is not possible. Land located west of the West Branch Hickey Creek is extremely remote and difficult to access.

### **Survey Needs:**

Survey needed.

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

: No recreational trails or facilities are located in this compartment. It receives limited use, mostly by adjacent landowners.

### **Fire Protection:**

: Fire response to this area will be very slow from any office. Any fires which occur in the western portions of the compartment will be extremely difficult to access. Water sources are abundant.

### **Additional Compartment Information:**

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

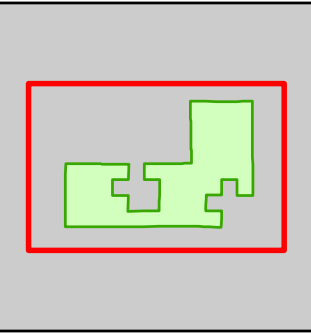
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

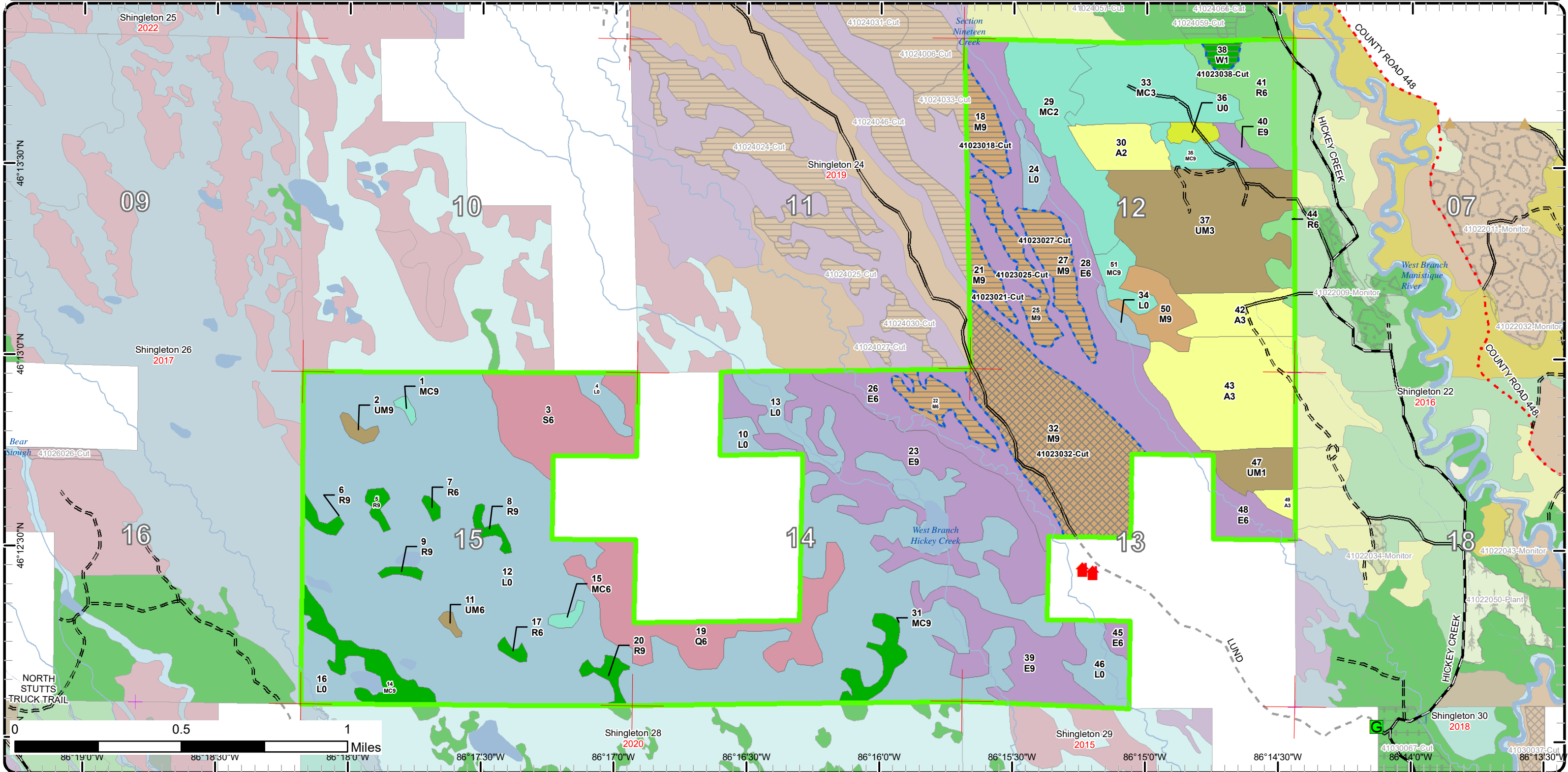
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 23  
 T44N, R16W, Sec: 12-15  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2023  
 Acres: 2062.3 GIS Calculated  
 Examiner: Thomas Burnis  
 Map Revised: 1/28/2022  
 Map Phase: Post Review



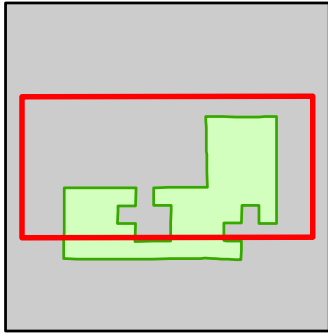
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Cabin
- Berms
- Gate
- Culvert
- Drain
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub



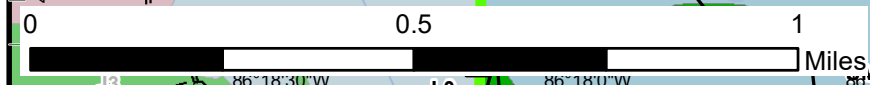
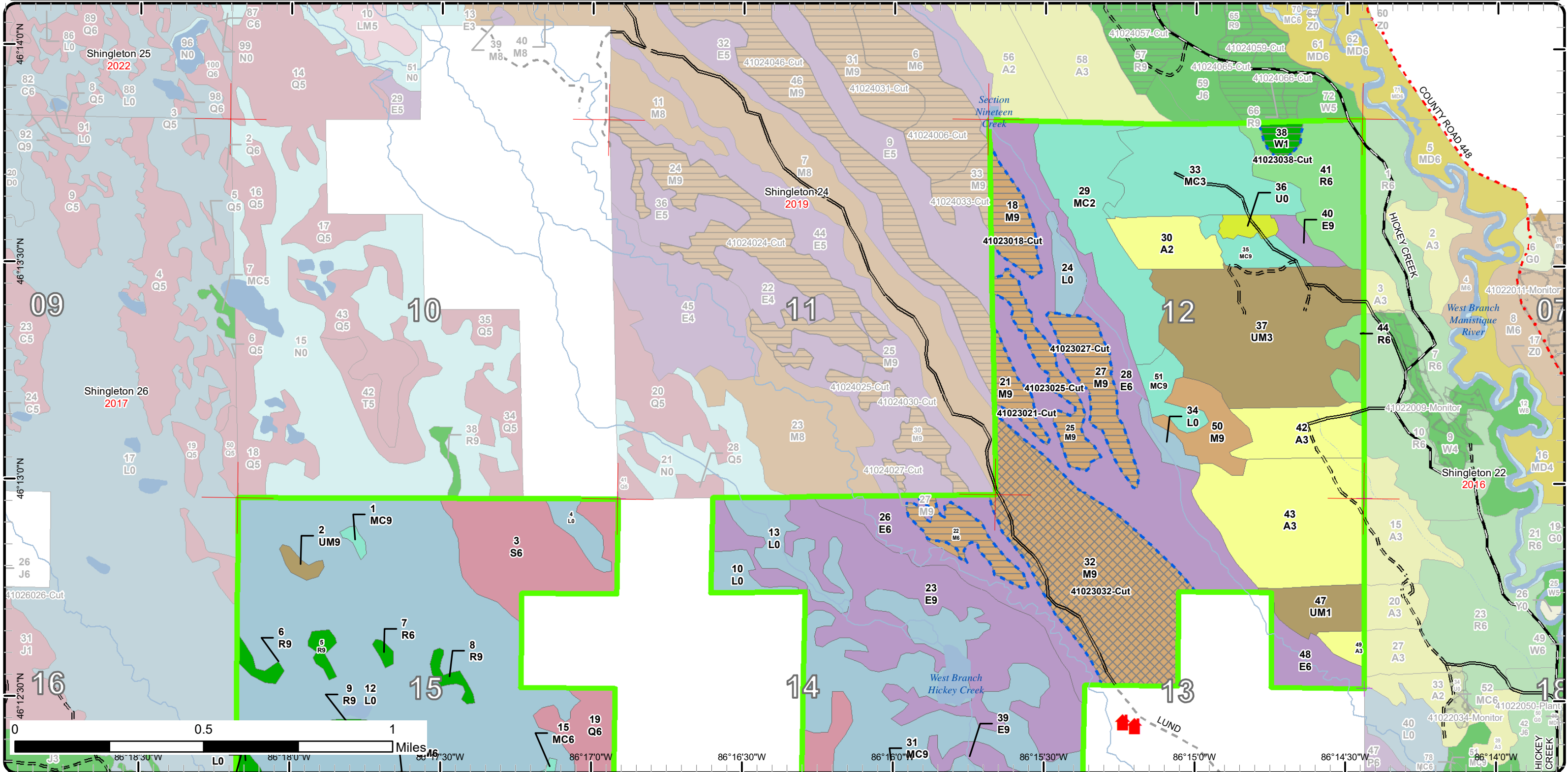


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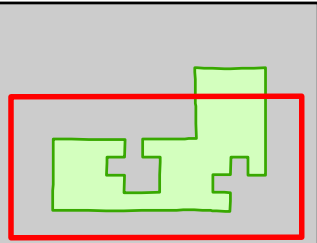
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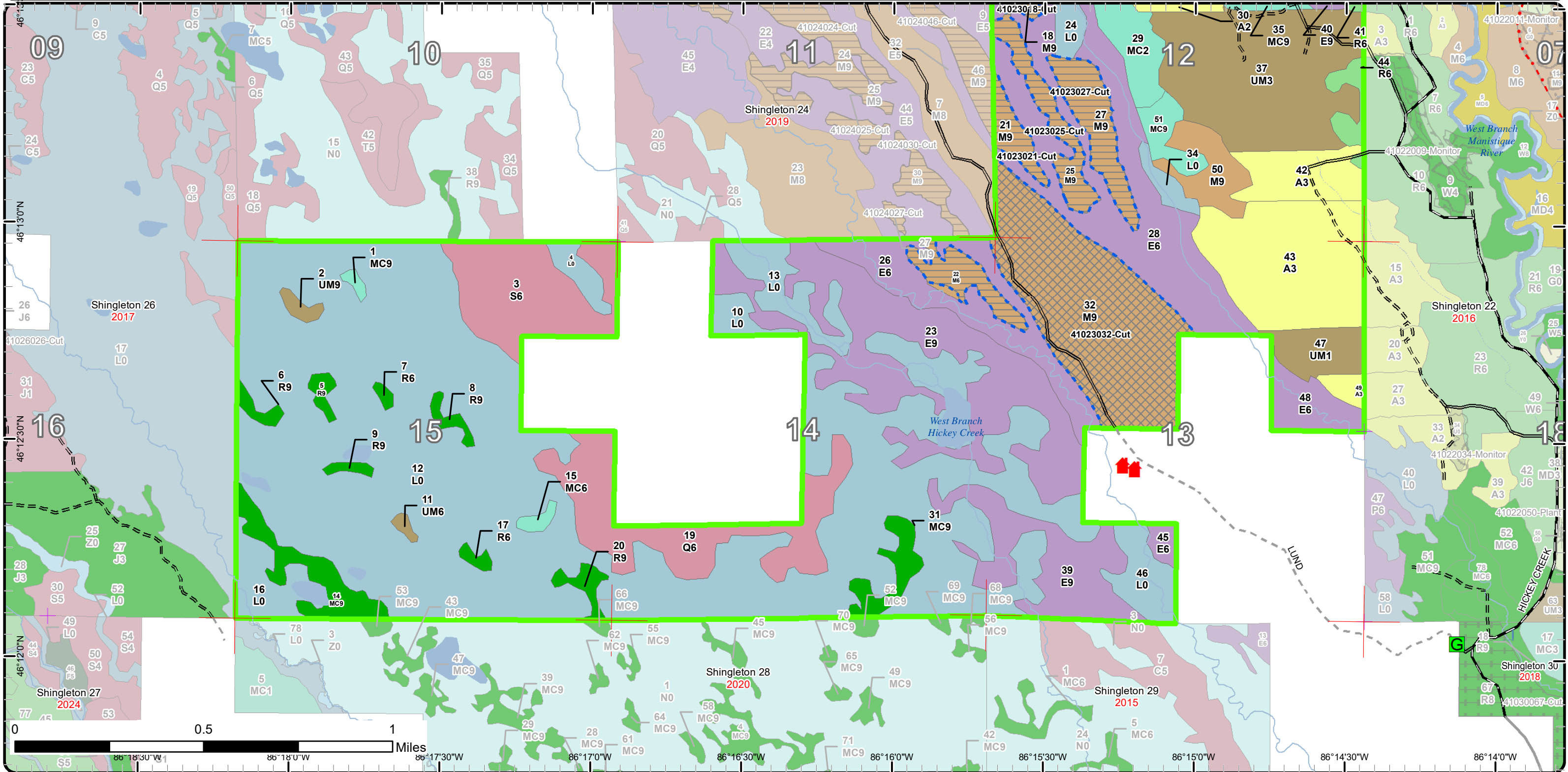
46°14'0"N 46°13'30"N 46°13'0"N 46°12'30"N 46°12'0"N 86°18'30"W 86°18'0"W 86°17'30"W 86°17'0"W 86°16'30"W 86°16'0"W 86°15'30"W 86°15'0"W 86°14'30"W 86°14'0"W

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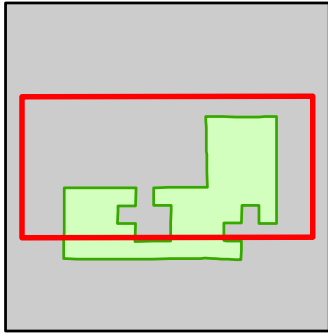
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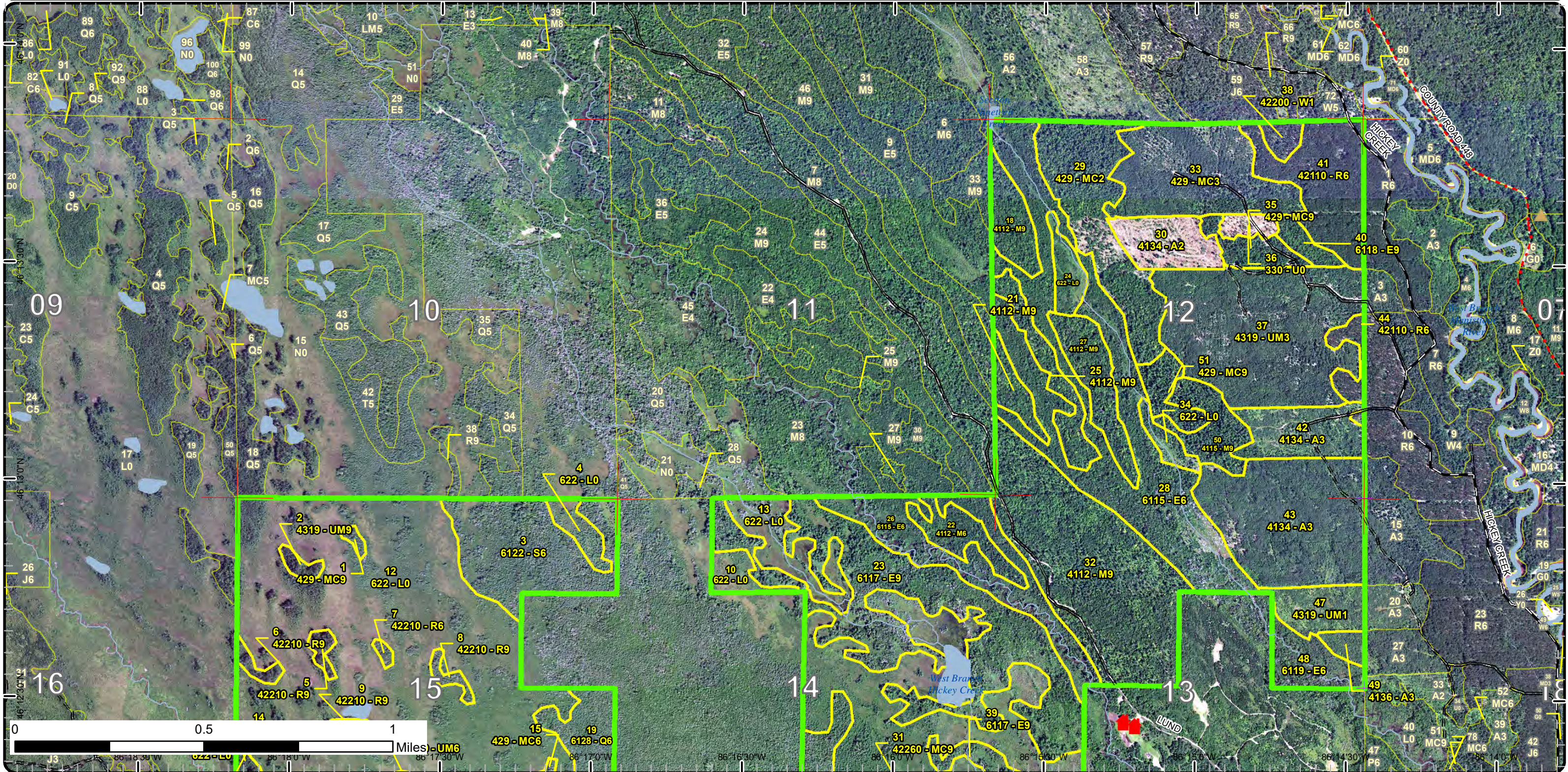


# Stand Boundary Map

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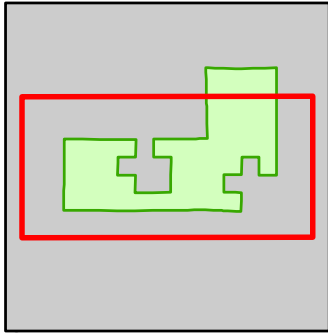
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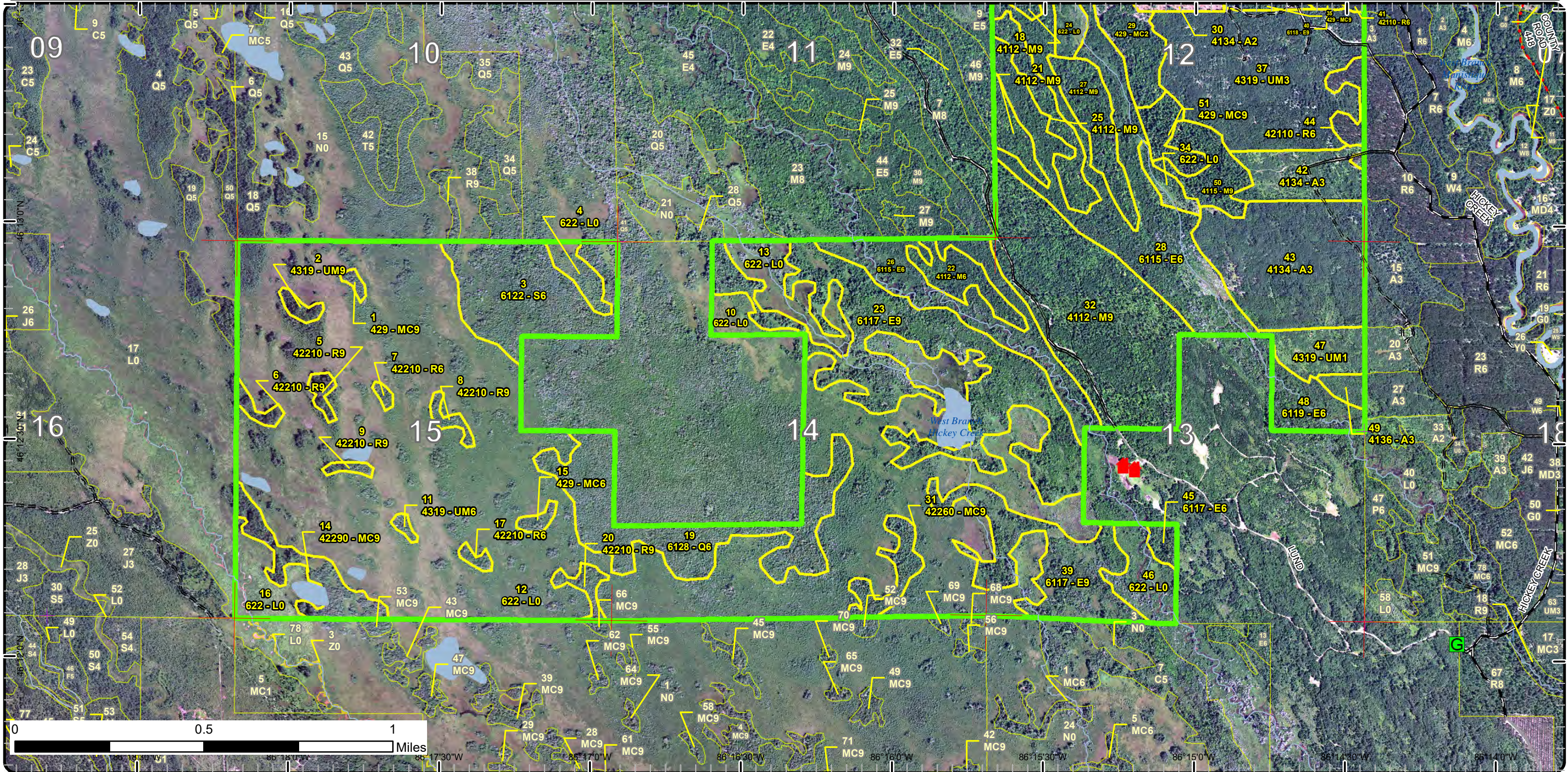


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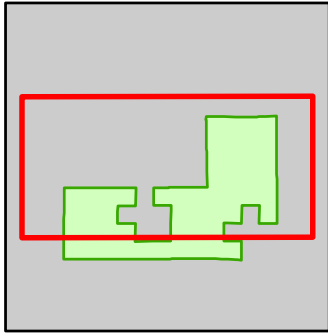
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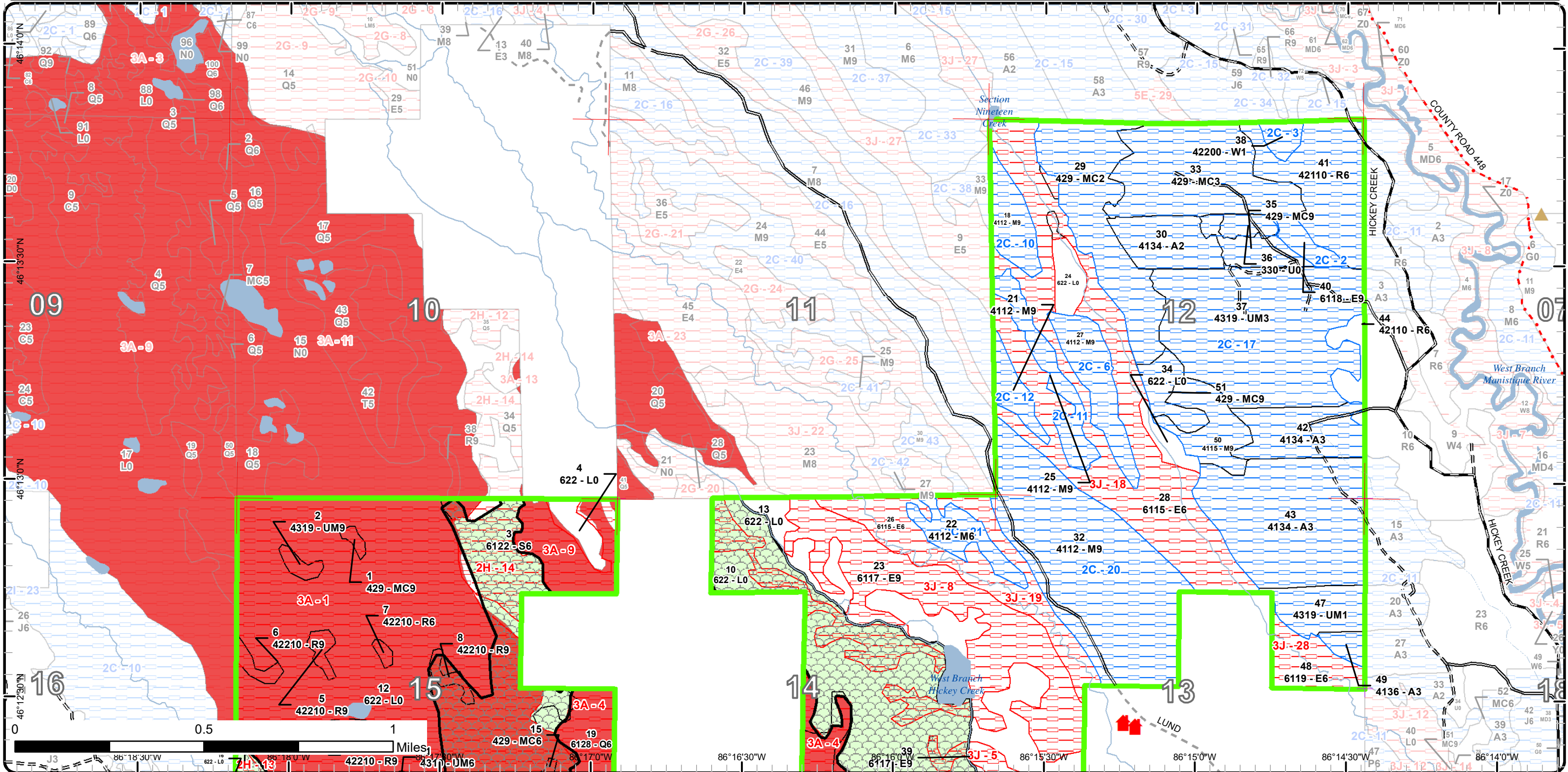


# Special Conservation Areas

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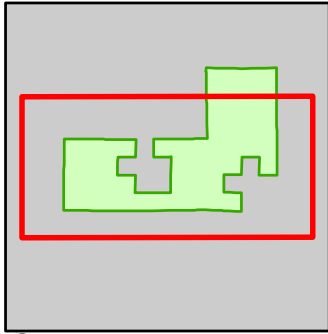
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- 🟦 Lakes and Rivers
- 🟩 Compartment Boundary
- 🟨 Available w/ Constraints
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 🚫 Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 🟩 Stand Boundaries
- 🟨 SCA Removal
- 🟥 Ecological Reference Areas
- 🟦 Cold Water Streams
- 🟦 Cold Water Lakes
- 🟩 Possible Type 1 Old Growth



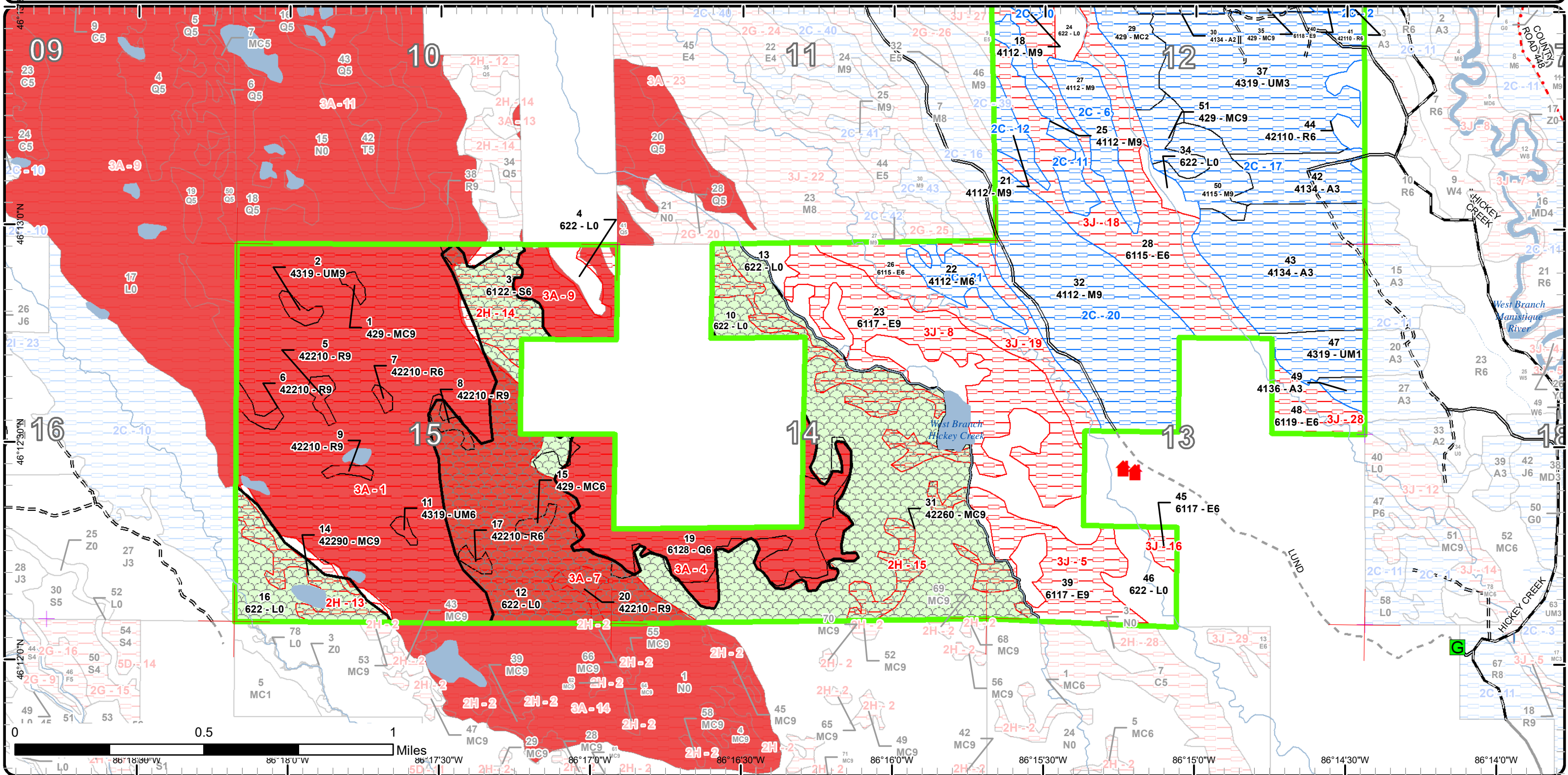


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	22	28	0	88	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0	0	69
Lowland Deciduous	0	0	0	0	50	131	0	0	24	7	179	0	0	0	0	0	0	0	391
Lowland Shrub	774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	774
Lowland Spruce/Fir	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	0	62
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	22	13	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	0	16	0	0	0	139	69	0	0	0	0	0	0	0	224
Red Pine	0	0	0	0	0	0	54	0	0	0	0	22	13	0	0	0	0	0	76
Upland Conifers	0	60	0	0	62	12	0	0	0	0	0	16	0	0	0	0	0	0	150
Upland Mixed Forest	0	0	0	0	110	19	0	2	0	0	0	3	0	0	0	0	0	0	134
White Pine	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>780</b>	<b>82</b>	<b>34</b>	<b>0</b>	<b>310</b>	<b>178</b>	<b>54</b>	<b>0</b>	<b>157</b>	<b>146</b>	<b>248</b>	<b>22</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2065</b>





## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 23  
Total Compartment Acres: 2,062

Commercial Harvest -  
Harvests with Site Condition - 209  
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
Northern Hardwood	84	119	0	0	0	0	0	0	0	203
White Pine	6	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>90</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>209</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	209	0	0	0	0	0	0	0	0	209
Next Step	0	6	6	0	6	6	209	0	0	231
<b>Total</b>	<b>209</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>209</b>	<b>0</b>	<b>0</b>	<b>439</b>





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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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**Approved Treatments:**

18	41023018-Cut	16.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all trees. Leave 20-50 foot buffer along edge.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of current species.

Regen:

Other

Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2018

21	41023021-Cut	9.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all trees. Leave a 20-50 foot buffer around the edge.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of current species

Regen:

Other

Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2018

22	41023022-Cut	14.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all trees except hemlock and cedar. Retain some large hardwood trees as retention by marking with green paint.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of existing overstory spp.

Regen:

Other

Comment: Stand should be harvested with stands in comp 24.

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/15/2021





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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
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<b>25</b>	<b>41023025-Cut</b>	19.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all trees. Leave a 20 foot buffer around entire edge.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of current species.

Regen:

Other

Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2018

<b>27</b>	<b>41023027-Cut</b>	23.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all trees, Leave a 20 foot buffer around the entire edge.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of current species.

Regen:

Other

Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2018

<b>32</b>	<b>41023032-Cut</b>	119.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	87	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Remove most trees that are 14" DBH and greater. Target residual BA is 50-60. Protect understory saplings and favor pole size trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of existing overstory spp.

Regen:

Other

Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2022





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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
38 41023038-Cut	5.5	42200 - Natural White Pine	Sapling Poor	11	Immature	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2 inches.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash; Pesticide, (Inactive)Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2018</p>										

**Total Treatment** 208.6  
**Acreage Proposed:**



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 23  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2C	2H	3A	3J
		With Condition	Not Available					
137	0	<b>137</b>	0	Aspen	<b>137</b>			
5	0	<b>5</b>	0	Low-Density Trees	<b>5</b>			
69	4	<b>0</b>	65	Lowland Conifers			65	
391	0	<b>7</b>	384	Lowland Deciduous	<b>7</b>			384
773	324	<b>0</b>	449	Lowland Shrub			448	1
62	0	<b>0</b>	62	Lowland Spruce/Fir		31	31	
35	0	<b>0</b>	35	Natural Mixed Pines		35	0	
224	0	<b>224</b>	0	Northern Hardwood	<b>224</b>			
76	9	<b>45</b>	22	Red Pine	<b>45</b>		22	
149	0	<b>144</b>	6	Upland Conifers	<b>144</b>		4	1
134	0	<b>129</b>	5	Upland Mixed Forest	<b>129</b>		5	
6	0	<b>6</b>	0	White Pine	<b>6</b>			
2,062	337	<b>697</b>	1,028	Total Forested Acres	<b>697</b>	65	576	387
	16%	<b>34%</b>	50%	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	<b>3A: Conservation Values incompatible with harvest at this time</b>	458	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
2	Available	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 23  
Year of Entry: 2023

3	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access to stand over damaged county bridges with reduced weight restrictions.							
4	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	83	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	53	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access to stand over damaged county bridge with reduced weight restrictions.							
7	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 23  
Year of Entry: 2023

8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	126	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
10	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access to stand over damaged county bridge with reduced weight restrictions.							
11	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access to stand over damaged county bridge with reduced weight restrictions.							
12	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access to stand over damaged county bridge with reduced weight restrictions.							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 23  
Year of Entry: 2023

13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	481	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	133	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 23  
Year of Entry: 2023

19	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	119	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							





**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
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	<b>SCA Removal</b>	45
<b>Comments</b>				
Does not meet old growth criteria.				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	<b>SCA Removal</b>	399
<b>Comments</b>				
Does not meet old growth criteria.				



**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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	429 - Mixed Upland Conifers	Sawtimber Well	1.7	111	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		10	Pole	7		Black Spruce	Medium	5 - 10 feet	Sapling
Red Pine		50	Log/XLog	16	111				
Black Spruce		40	Pole	8					
2	4319 - Mixed Upland Forest	Sawtimber Well	3.3	111	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		50	XLog/Log	18	111	Black Spruce	Medium	5 - 10 feet	Sapling
Paper Birch		40	Pole	8					
Bigtooth Aspen		10	Pole/Log	9					
3	6122 - Black Spruce	Poletimber Well	62.0	71		N/A	trees growing on slightly raised ridges with higher areas containing rp, aspen, birch. Entire stand interspersed with dense lowland brush		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		30	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce		55	Pole	6	71	Alder	High	5 - 10 feet	Tall Shrub
Bigtooth Aspen		5	Pole	8					
Paper Birch		5	Pole	8					
Red Pine		5	Log	16					
4	622 - Lowland Shrub	Nonstocked	8.7			No			
5	42210 - Natural Red Pine	Sawtimber Well	3.5	111	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		10	Log/Pole	14		Black Spruce	Medium	5 - 10 feet	Sapling
Paper Birch		10	Pole	7					
Red Pine		70	Log/XLog	16	111				
Black Spruce		10	Pole	8					
6	42210 - Natural Red Pine	Sawtimber Well	3.6	111	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		80	XLog/Log	18	111	Red Pine	Low	10 - 20 feet	Sapling
Paper Birch		10	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**15** 429 - Mixed Upland Conifers Poletimber Well 2.8 111 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole	9		Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce	30	Pole	7					
Red Pine	50	Log/Pole	14	111				
Paper Birch	10	Pole	7					

**16** 622 - Lowland Shrub Nonstocked 22.2 No

**17** 42210 - Natural Red Pine Poletimber Well 2.2 111 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	70	Pole/Log	8	111	Red Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	20	Pole/Log	9		Black Spruce	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole	7					

**18** 4112 - Maple, Beech, Cherry Association Sawtimber Well 16.5 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	70	Log/Pole	11	91	Beech	Medium	10 - 20 feet	Sapling
Beech	10	Log/Pole	9		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	10	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling

Stand is on contract 17-09-01, Lock the gate. Residual basal area white pine 3 sq.ft., yellow birch 10 sq.ft., beech 7 sq.ft., hard maple 2 sq.ft., red maple 27 sq.ft., white spruce 6 sq.ft., white birch 3 sq.ft., cedar 1 sq.ft., fir 1 sq.ft., hemlock 4 sq.ft., cherry 1 sq.ft., 61 sq.ft. total. FTP W41-1424 for hemlock underplanting is approved.

[9/12/17 TI]: Sale was returned and left uncut.

**19** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 69.2 71 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole	7		Black Spruce	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole	8					
White Pine	10	Log/XLog	16					
Black Spruce	40	Pole	7	71				
Red Pine	10	Log/XLog	16					
Paper Birch	10	Pole	8					
Tamarack	10	Pole	7					

Access is extremely difficult for inventory purposes. Multiple creek crossings and thick tag alder blocks snowmobile travel.

**20** 42210 - Natural Red Pine Sawtimber Well 5.3 111 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole	8		Red Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
Red Pine	70	Log/XLog	15	111				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.9	91	111-140	N/A	Stand is on contract 17-09-01, Lock the gate. Residual basal area white pine 3 sq.ft., yellow birch 10 sq.ft., beech 7 sq.ft., hard maple 2 sq.ft., red maple 27 sq.ft., white spruce 6 sq.ft., white birch 3 sq.ft., cedar 1 sq.ft., fir 1 sq.ft., hemlock 4 sq.ft., cherry 1 sq.ft., 61 sq.ft. total. FTP W41-1424 for hemlock underplanting is approved.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	10	Log/Pole	10		Balsam Fir	Medium		5 - 10 feet	Sapling
Red Maple	70	Log/Pole	11	91	Sugar Maple	Medium		10 - 20 feet	Sapling
Paper Birch	10	Log/Pole	10		Red Maple	Medium		10 - 20 feet	Sapling
Beech	10	Log/Pole	9		Beech	Medium	10 - 20 feet	Sapling	
22	4112 - Maple, Beech, Cherry Association	Poletimber Well	15.7	49	81-110	N/A	03/08/2021 TB: Cut in 1972, Diameter limit on Hdws and WP, cut all spruce.  [11/17/2016 TI] This stand was cut as part of Sale # 41-017-13-01 Lund's Forgotten Stand. TCR Date 8/26/2016. Count the regeneration during the 2023 Inventory Cycle.  This stand was updated wrong. Stand data was erased from inventory. Sale was never harvested and it was turned back to state.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Spruce	5	Pole/Log	9		Balsam Fir	Low	10 - 20 feet	Sapling	
Paper Birch	5	Pole	5		Paper Birch	Low	>20 feet	Sapling	
Northern White Cedar	10	Pole	8		Black Ash	Medium	>20 feet	Sapling	
Red Maple	70	Pole/Log	9	49	Red Maple	High	>20 feet	Sapling	
Sugar Maple	10	Pole/Log	9						
23	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	126.0	91		N/A			
24	622 - Lowland Shrub	Nonstocked	9.9			No			
25	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.3	91	111-140	N/A	Stand is on contract 17-09-01, Lock the gate. Residual basal area white pine 3 sq.ft., yellow birch 10 sq.ft., beech 7 sq.ft., hard maple 2 sq.ft., red maple 27 sq.ft., white spruce 6 sq.ft., white birch 3 sq.ft., cedar 1 sq.ft., fir 1 sq.ft., hemlock 4 sq.ft., cherry 1 sq.ft., 61 sq.ft. total. FTP W41-1424 for hemlock underplanting is approved.  [9/12/17 TI]: Sale was returned and left uncut.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	10	Log/Pole	9		Red Maple	Medium		10 - 20 feet	Sapling
Sugar Maple	10	Log/Pole	10		Sugar Maple	Medium		10 - 20 feet	Sapling
Paper Birch	10	Log/Pole	10		Balsam Fir	Medium		5 - 10 feet	Sapling
Red Maple	70	Log/Pole	11	91	Beech	Medium	10 - 20 feet	Sapling	
26	6115 - Lowland Ash	Poletimber Well	50.2	31	Immature	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Black Ash	90	Pole/Sapling	6	31	Black Ash	Medium	10 - 20 feet	Sapling	
Northern White Cedar	10	Log/Pole	13		White Spruce	Low	10 - 20 feet	Sapling	
					Alder	Medium	5 - 10 feet	Tall Shrub	
27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.5	91	111-140	N/A	Stand is on contract 17-09-01, Lock the gate. Residual basal area white pine 3 sq.ft., yellow birch 10 sq.ft., beech 7 sq.ft., hard maple 2 sq.ft., red maple 27 sq.ft., white spruce 6 sq.ft., white birch 3 sq.ft., cedar 1 sq.ft., fir 1 sq.ft., hemlock 4 sq.ft., cherry 1 sq.ft., 61 sq.ft. total. FTP W41-1424 for hemlock underplanting is approved.  [9/12/17 TI]: Sale was returned and left uncut.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	70	Log/Pole	11	91	Beech	Medium		10 - 20 feet	Sapling
Beech	10	Log/Pole	9		Red Maple	Medium		10 - 20 feet	Sapling
Sugar Maple	10	Log/Pole	10		Balsam Fir	Medium		5 - 10 feet	Sapling
Paper Birch	10	Log/Pole	10		Sugar Maple	Medium	10 - 20 feet	Sapling	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28** 6115 - Lowland Ash Poletimber Well 131.1 46 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	70	Pole/Sapling	5	46	Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	10	Sapling/Pole	3		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	10	Pole	8		Black Ash	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole/Sapling	5					

**29** 429 - Mixed Upland Conifers Sapling Medium 59.5 6 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Sapling	2	
Balsam Fir	30	Sapling	1	6
Northern White Cedar	5	Pole	8	
Bigtooth Aspen	10	Sapling	1	
Red Maple	20	Sapling	1	
Hemlock	20	Log/Pole/XLog	12	111
White Pine	10	XLog/Log	20	

[12/13/2016 TI] Stand was cut as part of Sale #41-031-13-01 Mixed Up Wood. TCR Date 10/10/2016.

Stand was thinned in 1988 and stand is on contract, Lund Camp Sale (37-03) Southern portion of stand was harvested in winter 2010. Northern portion has not been cut yet. Residual basal areas from cruise are Unit 1(northern): 13 sq.ft. red maple, 5 sq.ft. beech, 3 sq.ft. yellow birch, 2 sq.ft. white spruce, 1 sq.ft. fir, 4 sq.ft. cedar, 2 sq.ft. white birch, 5 sq.ft. hemlock, 8 sq.ft. white pine = 43 total. Unit 2 (southern) 10 sq.ft. red maple, 1 sq.ft. hard maple, 2 sq.ft. beech, 1 sq.ft. yellow birch, 1 sq.ft. fir, 7 sq.ft. cedar, 1 sq.ft. white birch, 15 sq.ft. hemlock, and 6 sq.ft. white pine = 44 total. data reflects harvested portion

03/03/2021 TB: Stand is mostly regenerating to fir and red maple sprouts. There are scattered patches of unmerchantable size red maple throughout stand. Scattered residual log size trees consisting of Hemlock, White Pine and pole size cedar.

**30** 4134 - Aspen, Spruce/Fir Sapling Medium 21.6 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Sapling	1	6
Red Maple	5	Sapling	1	
Black Spruce	5	Sapling	1	
White Pine	5	Sapling	1	
Balsam Fir	25	Sapling	1	

[12/13/2016 TI] Stand was cut as part of Sale #41-031-13-01 Mixed Up Wood. TCR Date 10/10/2016.

**31** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 12.7 111 81-110 N/A

Access is extremely difficult for inventory purposes. Multiple creek crossings and thick tag alder blocks snowmobile travel.

**32** 4112 - Maple, Beech, Cherry Association Sawtimber Well 119.0 87 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Log/Pole	13		Paper Birch	Medium	>20 feet	Sapling
Sugar Maple	5	Pole/Log	9		Black Cherry	Medium	>20 feet	Sapling
Red Maple	80	Log/Pole	13	87	Red Maple	High	>20 feet	Sapling
White Pine	5	Log/XLog	16		Black Ash	Low	10 - 20 feet	Sapling
White Spruce	3	Pole	8		White Spruce	Low	>20 feet	Sapling
Northern White Cedar	5	Pole	8		Beech	Medium	>20 feet	Sapling
					Alder	Low	5 - 10 feet	Tall Shrub

Stand is composed of 5 strips running east/west. 3 of these strips were cut in 2009 with the Lund Camp Sale. The other 2 were cut in 1988. The management goal of previous inventory was to blend these strips together to have one large stand. Lund Camp Sale is still on contract as of 2/22/2011. An FTP was written at prep time for oak planting on these 3 recently cut strips. After onsite biologist and forester review it was decided to cancel FTP.

03/08/2021 TB: Lund Camp Sale Closed. The 3 strips have been cut 2009.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>33</b>	429 - Mixed Upland Conifers	Sapling Well	61.8	31	1-50	N/A	south strip cut in 1990, north strip cut in 1998
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Sapling/Pole	4	
Quaking Aspen	35	Sapling/Pole	4	31
Jack Pine	40	Sapling/Pole	4	31
White Pine	10	Pole/Sapling	6	
Balsam Fir	10	Pole/Sapling	5	

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

<b>34</b>	622 - Lowland Shrub	Nonstocked	6.6			No	
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<b>35</b>	429 - Mixed Upland Conifers	Sawtimber Well	12.0	41	1-50	N/A	appears that all species in stand were cut in past except red pine and white pine, but i could not find any records of it. Most trees are just reaching merchantability except the large red pine and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole/Sapling	6	41
Jack Pine	10	Pole/Sapling	6	
Bigtooth Aspen	20	Pole/Sapling	6	
Red Pine	15	Log/XLog	16	
Red Maple	10	Pole/Sapling	6	
White Pine	20	XLog/Log	20	
White Spruce	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	High	5 - 10 feet	Sapling

<b>36</b>	330 - Low-Density Trees	Nonstocked	5.5	0	Unspecified	No	1/12/2017: Stand was an upland mixed stand. It originally received codes for scarification because machine would be in the area and stand may benefit. However, adjacent treatments were changed and scarification of this stand is now impractical and undesirable. Regeneration will be checked during next inventory cycle. Acceptable species were any present onsite.  03/08/2121 TB: Cut in 2016. Mixed conifer seedlings coming in as well as scattered red maple and aspen. This stand does not require any regen work.
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Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Unspecified	Seeding
Jack Pine	Medium	< 5 feet	Seeding
Red Maple	Low	< 5 feet	Sapling
Red Pine	Low	>20 feet	Log
Red Pine	Low	Unspecified	Seeding
Black Spruce	Medium	Unspecified	Seeding
Quaking Aspen	Medium	< 5 feet	Sapling

<b>37</b>	4319 - Mixed Upland Forest	Sapling Well	109.9	31	Immature	N/A	north and south strip cut in 1990, middle strip cut in 1998
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	25	Sapling/Pole	4	
Quaking Aspen	50	Sapling/Pole	4	31
Jack Pine	4	Sapling/Pole	4	
White Pine	8	Pole/Sapling	5	
Black Spruce	13	Sapling/Pole	4	

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





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	42200 - Natural White Pine	Sapling Poor	5.5	11	Immature	N/A	Stand was cut in fall 2016, Mixed up wood sale. On list to scarify.  10/12/2017 TB: Residual BA too high to scarify. Final harvest with adjacent stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		5	Log	14			
White Pine		80	Sapling	1	11		
Black Spruce		15	Sapling	1			
39	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	52.9	91		N/A	
40	6118 - Lowland Deciduous with Cedar	Sawtimber Well	7.0	86	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Spruce		10	Log/Pole	10			
Bigtooth Aspen		20	Log/Pole	10	86		
Red Pine		5	Log	16			
Paper Birch		20	Pole	8			
White Pine		5	Log	16			
Red Maple		20	Pole	8			
Northern White Cedar		20	Pole	8			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Balsam Fir		High	10 - 20 feet	Sapling			
Red Maple		Medium	10 - 20 feet	Sapling			
41	42110 - Planted Red Pine	Poletimber Well	45.5	57	111-140	N/A	[12/13/2016 TI] Stand was cut as part of Sale #41-031-13-01 Mixed Up Wood. TCR Date 10/10/2016.  Manage with stand 1 comp 22.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		4	Pole	8			
White Pine		4	Pole/Log	8			
Red Pine		92	Pole	8	57		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Pine		Medium	10 - 20 feet	Sapling			
Black Cherry		Low	5 - 10 feet	Sapling			
Balsam Fir		Medium	5 - 10 feet	Sapling			
White Pine		Low	5 - 10 feet	Sapling			
42	4134 - Aspen, Spruce/Fir	Sapling Well	27.7	12	Immature	N/A	cut in 2009, 19 creek red aspen sale,41-010-06-01.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black Spruce		10	Sapling	2			
Balsam Fir		25	Sapling/Pole	3			
Red Maple		10	Sapling/Pole	4			
Quaking Aspen		55	Sapling/Pole	2	12		
43	4134 - Aspen, Spruce/Fir	Sapling Well	83.1	31	Immature	N/A	north and south strip cut in 1990, middle strip cut in 1998
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Fir		30	Sapling/Pole	4			
Black Spruce		3	Sapling/Pole	3			
Quaking Aspen		60	Sapling/Pole	4	31		
Red Maple		2	Sapling/Pole	3			
Jack Pine		5	Sapling/Pole	3			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Spruce		Low	5 - 10 feet	Sapling			
Balsam Fir		Low	5 - 10 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>44</b>	42110 - Planted Red Pine	Poletimber Well	8.8	57	51-80	N/A	first thinning in 2009, 19 creek red aspen sale. 41-010-06-01 Second thinning in 2020, Black Bear Pine sale. 41-012-16-01																																										
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<b>45</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	4.7	71		N/A																																											
<b>46</b>	622 - Lowland Shrub	Nonstocked	19.7			No																																											
<b>47</b>	4319 - Mixed Upland Forest	Sapling Poor	18.6	41	1-50	N/A	cut in 2009, 19 creek red aspen, 41-010-06-01.																																										
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<b>48</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	19.4	72		N/A																																											
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<b>49</b>	4136 - Aspen, Mixed Conifer	Sapling Well	5.1	31	Immature	N/A																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**50**      4115 - Y.Birch, Hemlock NH      Sawtimber Well      20.4      87      51-80      N/A

Stand received treatment in 1981. 14" stump cut on hardwoods, white pine and hemlock were marked, all spruce, fir and cedar were cut. This created a two age stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Log	14	87	Red Maple	High	>20 feet	Sapling
White Pine	10	XLog/Log	20		White Pine	Low	>20 feet	Sapling
Yellow Birch	2	Log	16		Balsam Fir	High	>20 feet	Sapling
Hemlock	20	Log/Pole/XLog	14	111	Paper Birch	Medium	>20 feet	Sapling
Sugar Maple	2	Log	12					
Northern White Cedar	3	Pole	8					
Paper Birch	3	Log	12					

**51**      429 - Mixed Upland Conifers      Sawtimber Well      11.6      111      141-170      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	12		Paper Birch	Low	10 - 20 feet	Sapling
White Pine	50	XLog	24	111	White Pine	Low	10 - 20 feet	Sapling
Hemlock	40	XLog/Log	22		Balsam Fir	Medium	10 - 20 feet	Sapling
					Red Maple	Medium	10 - 20 feet	Sapling