



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41008

Entry Year 2021

Acreage: 1,374

County Schoolcraft

Management Area: St. Ignace Lake Plain

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**Stand Examiner:** Thomas Burnis

**Legal Description:**

T44N R13W Sections 16-21, 30

**Identified Planning Goals:**

Timber and wildlife management opportunities are the primary focus on state lands in this compartment, with additional emphasis on recreation.

**Soil and topography:**

Flat to rolling terrain generally featuring sandy soils on the uplands and heavier soils in the bottomlands. Drainage is frequently impeded on the lowland sites.

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

The state owned lands in sections 16 - 21 consist of several oddly-sized blocks of land mixed in with private ownership, including parcels featuring a number of permanent homes and hunting camps. Section 30 is wholly state-owned and features the Mead Creek State Forest Campground at the confluence of Mead Creek and the Manistique River. This compartment is just east of and immediately adjacent to the Seney National Wildlife Refuge.

**Unique Natural Features:**

Currently under review by Michigan Natural Features Inventory (MNFI).

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

None known.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

The northern region of this compartment contains an unnamed stream which serves as a tributary to the Manistique River. The unnamed stream is a non-designated stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for the unnamed stream to protect riparian areas in accordance with Best Management Practices. The southern region of this compartment contains Mead Creek which serves as a tributary to the Manistique River. Mead Creek is a non-designated stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for the unnamed stream to protect riparian areas in accordance with Best Management Practices. This southwestern region of this compartment borders the Manistique River which serves as a tributary to Lake Michigan. This reach of the Manistique River is a non-designated river greater than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for the Manistique River to protect riparian areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

This compartment lies east of the Manistique River on the northern end of the River Road and contains a variety of forest types ranging from aspen and northern hardwoods to upland pines and lowland conifers. Mead Creek flows across the middle of this compartment.

Wildlife goals include maintaining species and structural diversity within the northern hardwood stands, promoting super-canopy trees near the Manistique River, maintaining hemlock where present, maintaining lowland cedar stands, and providing age and structural diversity between aspen stands.

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

Active sand/gravel pits are located to the east, but potential for sand & gravel development within the compartment appears low. There is no known metallic mineral potential in this area and no known potential for economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. 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.

**Vehicle Access:**

County Road P436 runs north–south through the compartment, and numerous logging roads provide access to much of the state lands in this area. Some areas in the northeastern part of the compartment are only accessible across private lands.

**Survey Needs:**

44-13-20 SWNE for proposed treatment of stand 7.

**Recreational Facilities and Opportunities:**

Mead Creek State Forest Campground is located in section 30, on the banks of the Manistique River.

**Fire Protection:**

Access across low, wet terrain may be problematic in some areas.

**Additional Compartment Information:**

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

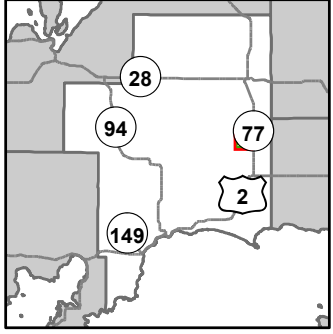
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

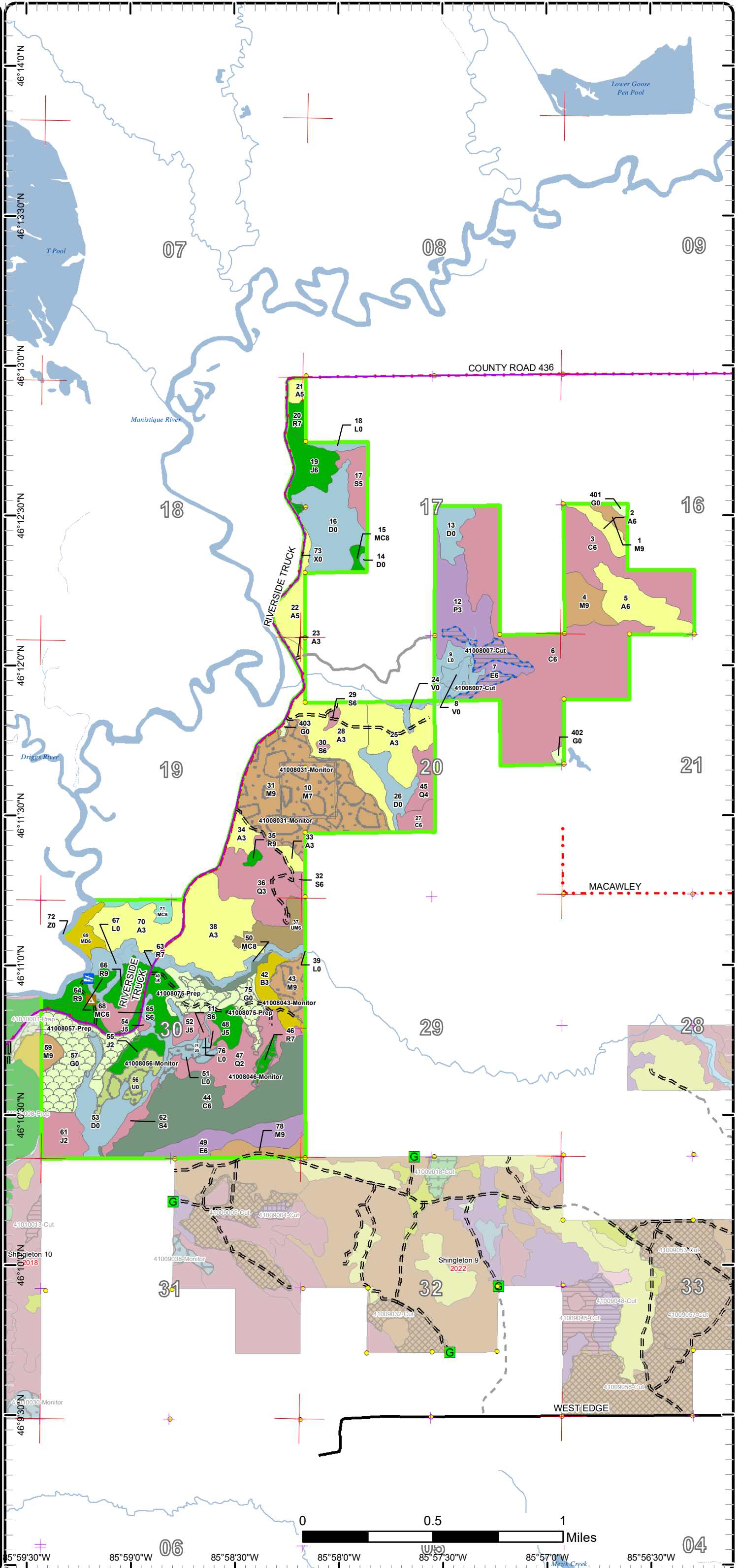
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 8  
 T44N,R13W, Sec: 16-21, 30  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: St. Ignace Lake Plain  
 YOE: 2021  
 Acres: 1373.9 GIS Calculated  
 Examiner: Thomas Burnis  
 Map Revised: 9/20/2023  
 Map Phase: Post Review

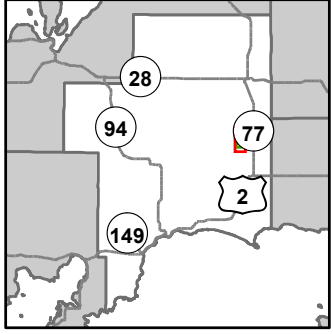


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Boating Access Site
- Campground
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub

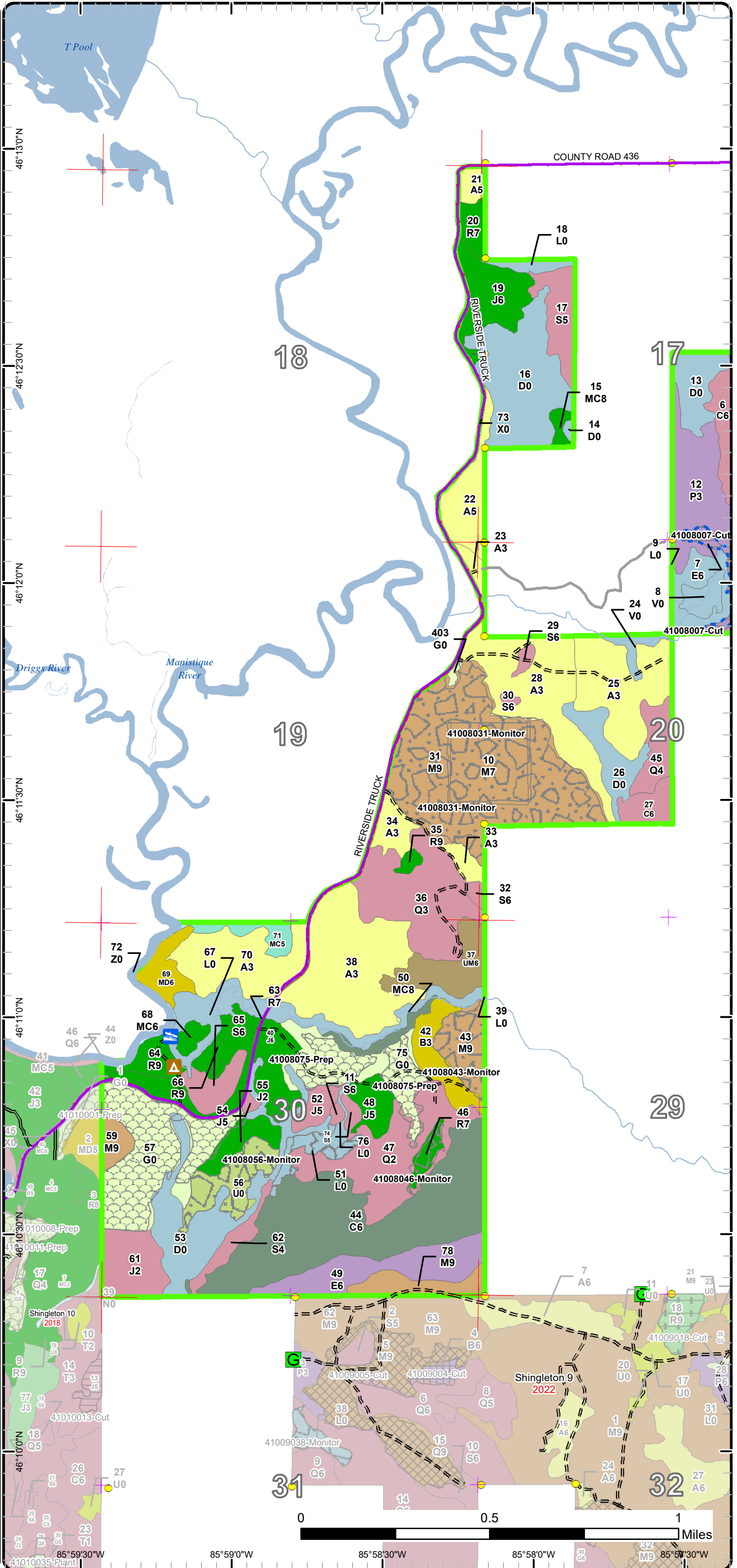


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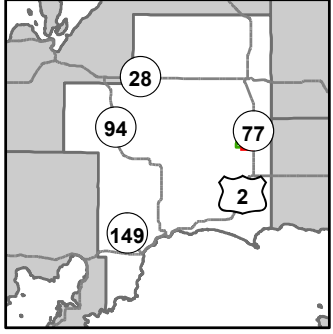
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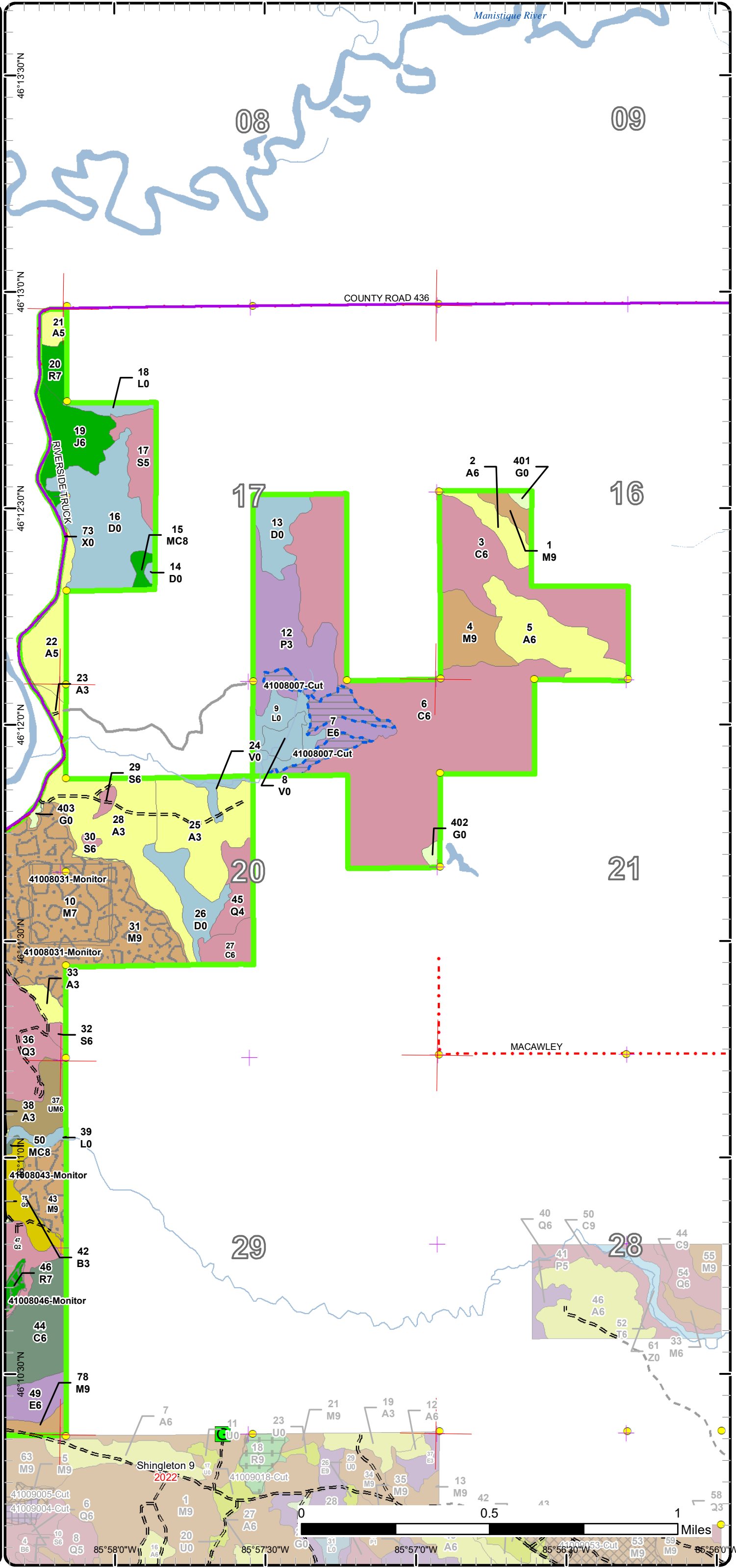


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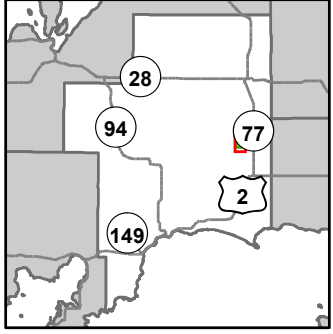
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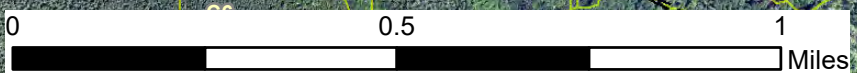
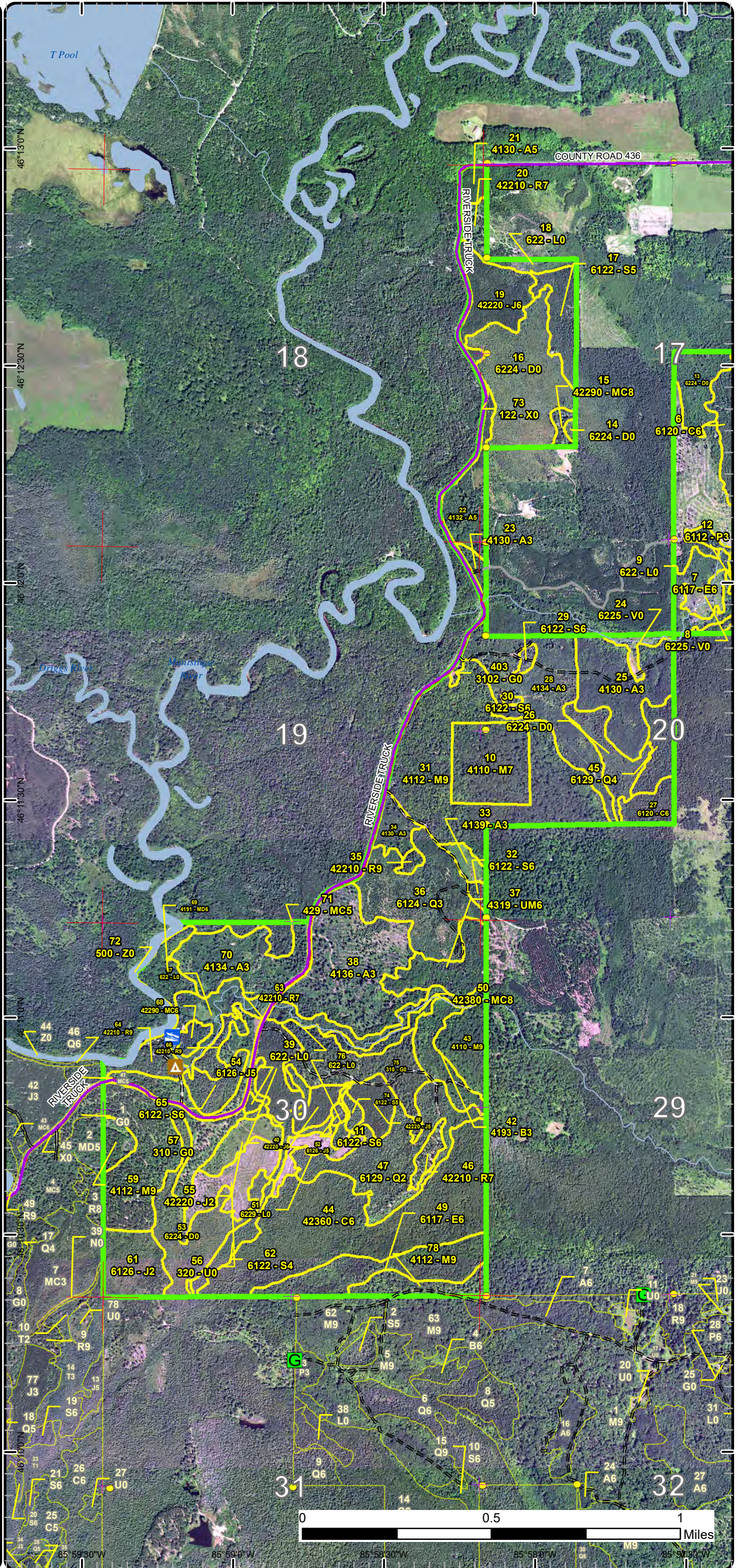


# Stand Boundary Map

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46°13'0"N 46°12'30"N 46°12'0"N 46°11'30"N 46°11'0"N 46°10'30"N 46°10'0"N 46°0'0"N 85°59'30"W 85°59'0"W 85°58'30"W 85°58'0"W 85°57'30"W 85°57'0"W

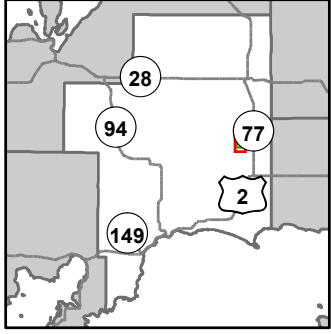




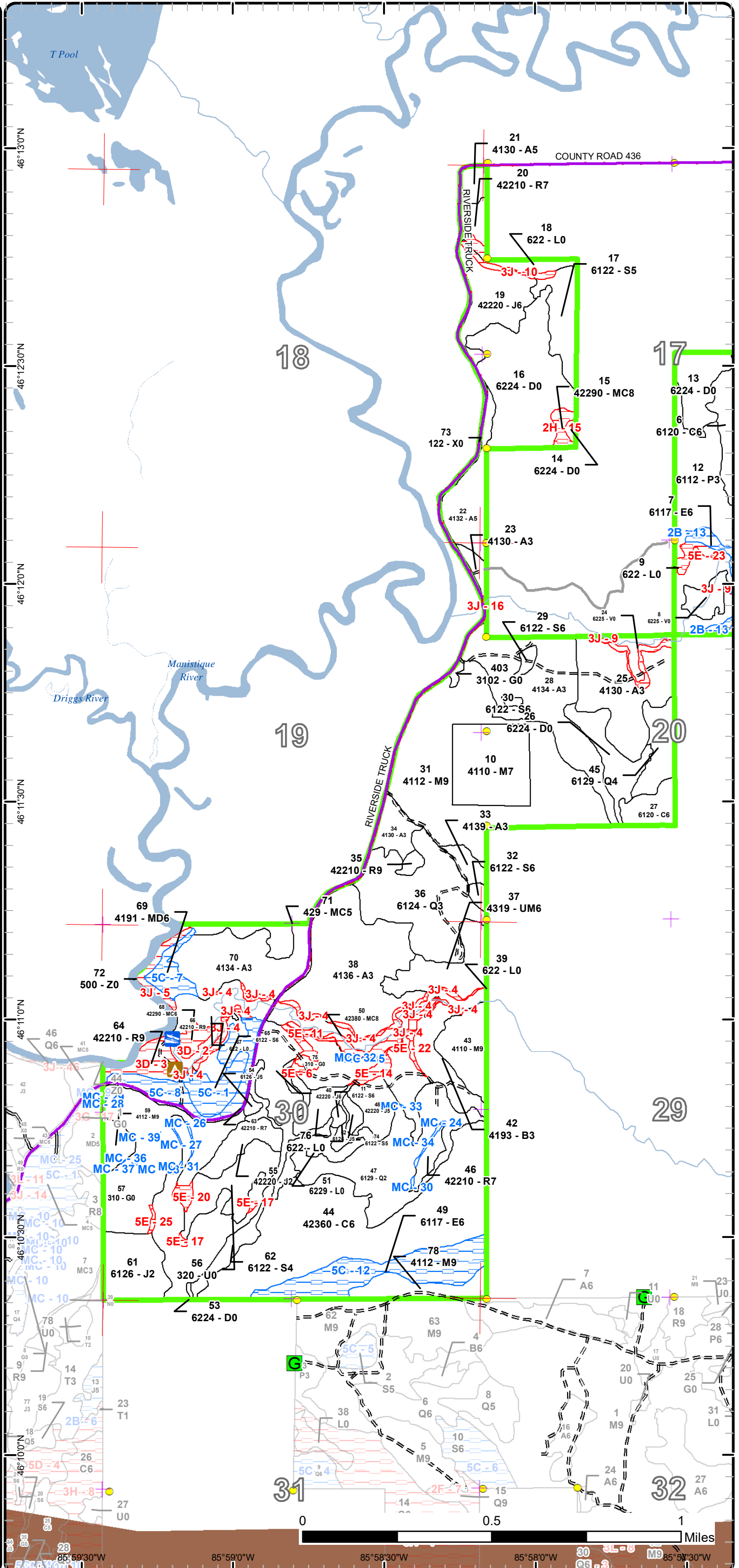


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Deer Winter Range

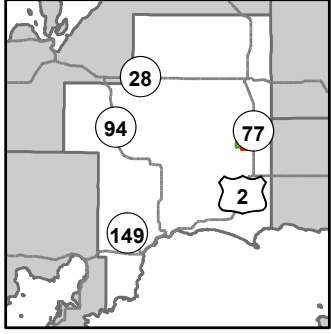


85°59'0"W
85°58'30"W
85°58'0"W
85°57'30"W
85°57'0"W

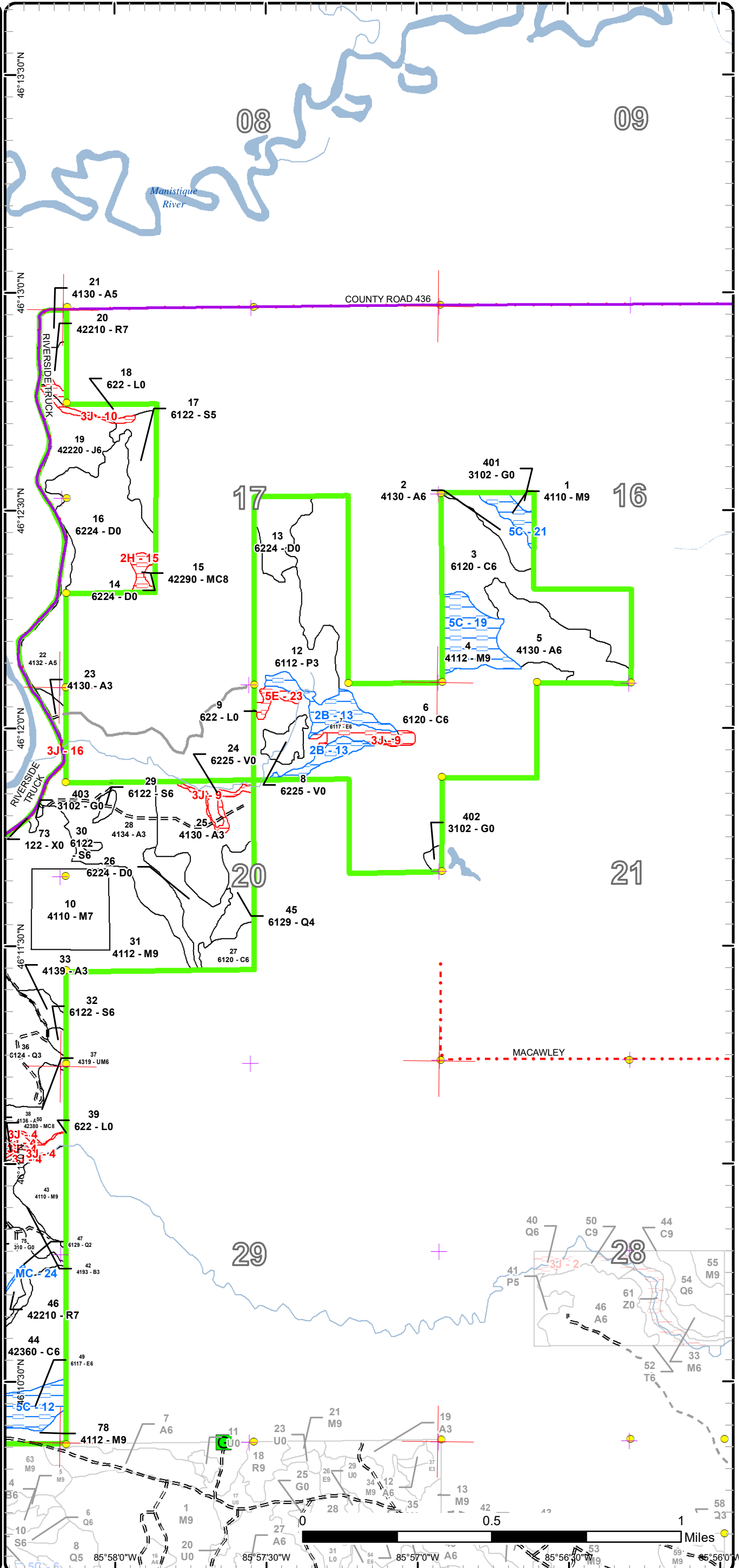


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- Stand Boundaries





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	55	80	42	60	0	0	0	0	0	0	0	0	0	0	0	0	0	237
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	0	0	0	91	211	0	0	0	0	0	0	302
Herbaceous Openland	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Jack Pine	0	0	0	27	20	30	0	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37
Lowland Conifers	0	0	0	42	0	0	0	51	0	0	0	0	0	0	0	0	0	0	93
Lowland Deciduous	0	0	0	0	0	0	0	0	0	21	28	0	0	0	0	0	0	0	48
Lowland Shrub	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Spruce/Fir	0	0	0	0	0	0	0	7	0	16	15	0	0	0	0	0	0	0	38
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Natural Mixed Pines	0	0	0	0	0	0	0	0	4	0	3	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	114	162
Paper Birch	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Red Pine	0	0	0	0	0	0	0	0	0	28	11	0	0	0	0	0	0	0	39
Treed Bog	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Upland Conifers	0	0	0	0	0	7	0	5	0	0	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Upland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>279</b>	<b>55</b>	<b>80</b>	<b>125</b>	<b>80</b>	<b>37</b>	<b>18</b>	<b>63</b>	<b>4</b>	<b>75</b>	<b>196</b>	<b>211</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>151</b>	<b>1373</b>





## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 8

Total Compartment Acres: 1,374

Commercial Harvest -  
 Harvests with Site Condition - 15  
 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
Lowland Deciduous		15	0	0	0	0	0	0	0	0	15
	<b>Total</b>	<b>15</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>15</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		15	65	0	0	0	147	0	0	0	228
Next Step		0	65	65	0	65	275	0	0	0	470
	<b>Total</b>	<b>15</b>	<b>130</b>	<b>65</b>	<b>0</b>	<b>65</b>	<b>422</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>697</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:**

<b>7</b>	<b>41008007-Cut</b>	15.2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	82	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Clearcut deciduous to 2" DBH and conifers to 4" DBH. Don't cut cedar, and don't cut any white pine or hemlock if found. A 100' buffer is needed for the stream. Cut a skid trail through the buffer to access the south part of the stand. A single length timber mat will be needed to cross the stream. A survey is needed for the south part of the stand. Will probably need to cut in winter or dry part of summer, check the ground.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: paper birch, yellow birch, red maple, balsam fir, white spruce, cedar, hemlock, black spruce, aspen, balsam poplar, black ash, tamarack, white pine

Other Comment: Acreage may vary depending on ground conditions.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2020

<b>31</b>	<b>41008031-Monitor</b>	75.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Monitored via Research Team (MSU)

Specs:

Next Step

Treatments:

Acceptable Regen: Northern Hardwood Species

Regen:

Other Comment: Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 1 /10/2023

<b>10</b>	<b>41008031-Monitor</b>	29.0	4110 - Sugar Maple Association	Sawtimber Poor	90	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Two-Aged	No
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Prescription Monitored via Research Team (MSU)

Specs:

Next Step

Treatments:

Acceptable Regen: Northern Hardwood Species

Regen:

Other Comment: Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2030





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31	41008031-Monitor	75.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Natural regeneration survey per work instructions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, yellow birch, paper birch, beech, ironwood, black cherry, aspen, hemlock, white pine, white spruce, balsam fir.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /10/2023</p>											
10	41008031-Monitor	29.0	4110 - Sugar Maple Association	Sawtimber Poor	90	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Natural regeneration survey per work instructions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, yellow birch, paper birch, beech, ironwood, black cherry, aspen, hemlock, white pine, white spruce, balsam fir.</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 /2030</p>											
43	41008043-Monitor	14.6	4110 - Sugar Maple Association	Sawtimber Well	90	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Natural regeneration survey per work instructions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> sugar maple, red maple, beech, hemlock, balsam fir, white pine, paper birch</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /10/2023</p>											
46	41008046-Monitor	4.6	42210 - Natural Red Pine	Sawtimber Poor	98	51-80	Monitoring	Natural Regen (Intermediate)	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Natural regeneration survey per work instructions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of current regeneration on site including aspen, red maple, balsam fir, white pine, red pine, and black spruce, hemlock, and white spruce.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 2 /7 /2023</p>											





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
56	<b>41008056-Monitor</b>	16.3	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Natural regeneration monitoring per work instructions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine and any other conifers</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 /2028</p>											
57	<b>41008057-Prep</b>	44.0	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Herbicide if needed to prepare for initial planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash; ; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring,</p> <p><u>Treatments:</u> Artificial Regen(3yr); Monitoring, Herbicide Use</p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
75	<b>41008075-Prep</b>	20.9	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench to prepare for red pine initial plant.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash; SitePrep, Other - Specify; ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use</p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
51	<b>41008077-Monitor</b>	7.0	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6126 - Lowland Jack Pine	Even-Aged	No
<p><u>Prescription</u> Monitor for natural regeneration per work instructions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine, black spruce, other lowland 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 /2028</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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Total Treatment Acreage Proposed: 227.5



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 8  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2B	5C	MC	2H	3D	3J	5E	
237	231	0	6	Aspen							6	
10	10	0	0	Bog							0	
302	301	0	2	Cedar							2	
77	67	1	10	Herbaceous Openland			1				0	10
77	75	0	2	Jack Pine							2	
37	34	0	3	Lowland Aspen/Balsam Poplar								3
93	93	0	0	Lowland Conifers								
49	0	44	5	Lowland Deciduous	15	28					5	
52	52	0	0	Lowland Shrub							0	
37	28	9	1	Lowland Spruce/Fir		9					1	
10	0	6	4	Mixed Upland Deciduous		6					4	
6	0	0	6	Natural Mixed Pines				3	3			
162	139	23	0	Northern Hardwood		23						
14	13	0	0	Paper Birch							0	
40	13	15	12	Red Pine		14	1		8		3	
108	108	0	0	Treed Bog								
12	7	0	5	Upland Conifers							5	0
18	17	0	1	Upland Mixed Forest							1	
17	16	0	1	Upland Shrub								1
11	11	0	0	Urban								
4	4	0	0	Water								
1,374	1,221	98	55	Total Forested Acres	15	81	2	3	12	28	13	
	89%	7%	4%	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	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

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 8  
Year of Entry: 2021

2	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mead Creek campground.							
3	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mead creek campground.							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100' buffer for Mead Creek. Steep slopes and low ground at bottom, not red pine.							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manistique River corridor 100' buffer							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
7	<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>							



## Report 4 – Site Conditions

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Thomas Burnis : Examiner

Compartment: 8  
Year of Entry: 2021

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manistique River tributary 100' buffer.							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet wetland to the east turns into a small 2-4' flowing stream in the site condition area.							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
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Year of Entry: 2021

14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Insufficient volume to justify crossing the wetland.							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manistique river tributary.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 2015 timber sale.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							



## Report 4 – Site Conditions

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21	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
23	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from Kuzzins Pine 410191101.							
24	<b>Available</b>	<b>Minor Change in Acreage</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
25	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
26	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
27	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 8  
Year of Entry: 2021

28	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
29	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
30	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
31	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
32	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
33	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
34	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
35	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 8  
Year of Entry: 2021

36	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
37	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
38	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							
39	<b>Available</b>	<b>Minor Change in Acreage</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention from 45 acre 3 stand red pine clearcut.							

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	4110 - Sugar Maple Association	Sawtimber Well	5.1	90	111-140	N/A	This stand is ready for a thinning to promote the younger trees.																																															
<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>Sugar Maple</td> <td>95</td> <td>Log/Pole</td> <td>11</td> <td>90</td> </tr> <tr> <td>Balsam Fir</td> <td>4</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Basswood</td> <td>1</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	95	Log/Pole	11	90	Balsam Fir	4	Pole	7		Basswood	1	Log/XLog	16		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	10 - 20 feet	Sapling																							
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2	4130 - Aspen	Poletimber Well	9.1	37	51-80	N/A	Stand is doing well and has entered pole sized.																																															
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3	6120 - Lowland Cedar	Poletimber Well	47.1	100	171-200	N/A	Dense cedar in most locations. An old access trail reaches stand 2 A6 to the north.																																															
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4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.8	90	111-140	N/A	[1/19] The center of the stand contains the majority of the log/xlog maple. The edges is a mix of everything and mainly pole sized. Can still see the red paint and some of the orange paint. OPIC - FMD: [8/20/03] Prepped for sale 41- 009-02-01. Residual BA/acre: r.maple = 64, y.birch = 4, cedar = 2, b. fir = 1, w.spruce = 3 [02/07/06] Sale is now closed incomplete TCR dtd 02/02/06 - this stand was not cut. YOE 2011 - attempt to sell this stand along with stands 10, 11 & 12.  9/30/11 bb Stand was factored off 2011 POW due to access issues, should be able to harvest stand when adjacent stands are prescribed next entry.																																															
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Red Maple	Medium	Variable	Sapling																																																			
5	4130 - Aspen	Poletimber Well	30.1	37	51-80	N/A	Good regeneration and has reached pole size. The western portion bordering stand 4 M9 is mostly low ground. The northwest 3 acres of this stand was delineated out from the cedar stand this entry and contains large mature aspen.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
6	6120 - Lowland Cedar	Poletimber Well	155.7	100	171-200	N/A	Good ground throughout most of the stand. Dense cedar still on the smaller side.																																							
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7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	20.5	82	111-140	N/A	Paper birch is rapidly dying off, especially in the NE part of the stand.. There's only a few large aspen left. There's a small stream that runs through the center of the stand that will need a single length timber mat to cross.																																							
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8	6225 - Bog	Nonstocked	5.8		Unspecified	No																																								
9	622 - Lowland Shrub	Nonstocked	12.8		Unspecified	No																																								
10	4110 - Sugar Maple Association	Sawtimber Poor	28.0	90	1-50	N/A	MWR 13-17 TCR: 8/28/18 [12/13/18] 2' tall red maple seedlings with heavy deer browse.																																							
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11	6122 - Black Spruce	Poletimber Well	1.1	97	81-110	N/A	Small mature black spruce stand, about 20% has blown down. Dense clump of cedar on the south end. Could be cut whenever the adjoining jack pine stand is cut.																																							
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<b>12</b>	6112 - Lowland Aspen	Sapling Well	37.0	8	Immature	N/A	[1/19] Stand was cut in 2015 and the regeneration is doing well with heights of 7-10' already. Some cedar and white pine reserved. OPIC - FMD: Buffer the stream in the south end of the stand and stay away from the adjacent wet areas that may be inoperable; doing this will also provide for retention guidelines. Acceptable regeneration includes all species present. If any hemlock or white pine is encountered, reserve it. 11/1/11 bb Stand is on proposal 19-11 Kuzzins Pine, part of Unit 6. Residual BA = cedar 8', white pine 1' [8-10-12] Stand is now under contract. A 2" DBH cutting spec.TCR 8/10/15																																				
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<b>13</b>	6224 - Treed Bog	Nonstocked	13.7		Unspecified	No																																					
<b>14</b>	6224 - Treed Bog	Nonstocked	0.9		Unspecified	No																																					
<b>15</b>	42290 - Natural Mixed Pine	Sawtimber Medium	2.8	97	51-80	N/A	Access across the wetlands is limited - insufficient volume to justify crossing.																																				
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<b>16</b>	6224 - Treed Bog	Nonstocked	43.9		Unspecified	No																																					
<b>17</b>	6122 - Black Spruce	Poletimber Medium	14.0	81	51-80	N/A	This stand consists of dense (fully-stocked S6/S3) patches of spruce with semi-open boggy areas interspersed throughout. The western side has the smallest diameter spruce.																																				
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<b>18</b>	622 - Lowland Shrub	Nonstocked	4.0	0	Unspecified	No	Wet ground with a lot of tagalder. A few scattered aspen and black spruce.																																				
<b>19</b>	42220 - Natural Jack Pine	Poletimber Well	20.0	38	51-80	N/A	Thick jack pine regen that is growing straight and tall. A few areas of aspen and black spruce. A small 2-4' stream runs along the northern boarder of the stand.																																				
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20	42210 - Natural Red Pine	Sawtimber Poor	5.7	89	1-50	N/A	[12-12-18] Large red pine with a mixed understory that is dominated by aspen. A small stream is on the south border. OPIC - FMD: See FTP #C41-1059 (RP scarification). [06-14-06] 2000 red pine were handplanted by inmates - partial FTP completion report dtd 11-03-05. Schedule regen check for 2009. (9/2009) YOE 2011 inventory - Understory is A3 mix featuring aspen & conifer regeneration, including red & white pine, spruce & fir. The understory originated in 2003. FTP should be closed. The overstory's year of origin is approximate, as some age class variation exists in the pine.																																																												
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22	4132 - Aspen, Jack Pine	Poletimber Medium	16.6	34	1-50	N/A	Aspen and jack pine regenerating well. Scattered residual red and white pine.																																																												
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24	6225 - Bog	Nonstocked	4.2		Unspecified	No																																																													
25	4130 - Aspen	Sapling Well	34.7	29	Immature	N/A	Good regeneration throughout the stand. A few lower areas in the stand.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**26** 6224 - Treed Bog Nonstocked 13.3 Unspecified No

**27** 6120 - Lowland Cedar Poletimber Well 8.3 105 141-170 N/A BA averages about 145.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	90	Pole	7	105	Northern White Cedar	Trace	< 5 feet	Sapling
Tamarack	5	Pole	7		Balsam Fir	Full	< 5 feet	Sapling
Black Spruce	5	Pole	6					

**28** 4134 - Aspen, Spruce/Fir Sapling Well 42.7 18 Immature N/A

Thick regeneration has filled in. White pine and hemlock were left from the harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	Log	14		Black Spruce	Trace	5 - 10 feet	Sapling
Quaking Aspen	60	Sapling	2	18	Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	10	Sapling	2		Hemlock	Trace	< 5 feet	Sapling
Balsam Fir	20	Sapling/Pole	3		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	2	Log	14					
Black Cherry	4	Sapling	2					
Paper Birch	2	Sapling	2					

**29** 6122 - Black Spruce Poletimber Well 1.7 90 111-140 N/A

Small black spruce stand surrounded by the aspen stand. Healthy stand without blowdowns.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	65	Pole	7	90	Black Spruce	Trace	5 - 10 feet	Sapling
Tamarack	9	Pole	7		Red Maple	Trace	10 - 20 feet	Sapling
White Pine	25	Log	14		Balsam Fir	Trace	5 - 10 feet	Sapling
Red Maple	1	Pole	6					

**30** 6122 - Black Spruce Poletimber Well 0.8 90 111-140 N/A

Small healthy black spruce stand, no blowdowns.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Pole	7		Balsam Fir	Trace	5 - 10 feet	Sapling
White Pine	15	Log	13		Black Spruce	Trace	5 - 10 feet	Sapling
Black Spruce	78	Pole	7	90	Paper Birch	Trace	10 - 20 feet	Sapling
Red Maple	2	Pole	6		Red Maple	Trace	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**31** 4112 - Maple, Beech, Cherry Association Sawtimber Well 79.3 90 51-80 N/A Harvested in fall 2022, Deer in the Creek Sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	13	90	White Pine	Trace	5 - 10 feet	Sapling
Balsam Fir	2	Pole/Sapling	7		Ironwood	Trace	10 - 20 feet	Sapling
Paper Birch	2	Pole	9		Hemlock	Trace	10 - 20 feet	Sapling
Basswood	1	Log	16		Sugar Maple	High	10 - 20 feet	Sapling
Hemlock	3	Log	14		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen	2	Pole/Log	9		Beech	Trace	10 - 20 feet	Sapling
Red Maple	16	Pole/Log	9					
Black Cherry	1	Log/Pole	11					
Yellow Birch	3	Log	14					

**32** 6122 - Black Spruce Poletimber Well 1.7 80 111-140 N/A Mix of black spruce and tamarack.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	4	Log/XLog	16		Black Spruce	Low	< 5 feet	Sapling
Red Pine	1	Log	15		Balsam Fir	Low	< 5 feet	Sapling
Black Spruce	55	Pole	7	80				
Tamarack	39	Pole	8					
Quaking Aspen	1	Log	12					

**33** 4139 - Aspen, Mixed Deciduous Sapling Well 4.1 10 Immature N/A [2019] This unit was cut in 2013. Thick 7-9' regeneration becoming established.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	34	Sapling	1		Jack Pine	Trace	< 5 feet	Sapling
Black Cherry	10	Sapling	1		Balsam Fir	Trace	< 5 feet	Sapling
Quaking Aspen	55	Sapling	1	10				
White Pine	1	Sapling	3					

11/11 bb Stand is on proposal 19-11 Kuzzins Pine, part of Unit 5 [8-10-12] Stand is now under contract 41-019-11-01 Kuzzin's Pine. A 2" DBH cutting spec was included vice an FTP for aspen TSI.

**34** 4130 - Aspen Sapling Well 7.6 20 Immature N/A Thick regeneration has filled in. Scattered residual red pine and white pine left.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	1		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Sapling	2					
Red Pine	1	Log	14					
White Pine	1	Log	14					
Quaking Aspen	83	Sapling	2	20				

**35** 42210 - Natural Red Pine Sawtimber Well 1.8 95 111-140 N/A [2019] Small red pine stand with a mixed sub-canopy. [2009] Pocket of residual red pine from a previous stand that was cut in 2003. The understory is a mix of aspen, fir & red maple regeneration. Retain for wildlife habitat.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	15		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	95	Log/XLog	16	95	Red Pine	Trace	5 - 10 feet	Sapling
					Black Spruce	Medium	5 - 10 feet	Sapling
					Balsam Fir	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>36</b>	6124 - Lowland Spruce-Fir	Sapling Well	42.2	28	Immature	N/A	Approximately 50-65% of the stand is lowland. Mix of regeneration coming back with aspen throughout the stand but more concentrated in the upland areas.	
<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	Sapling	2		Tag Alder		
Black Spruce		30	Sapling	2		Black Spruce		
Quaking Aspen		35	Sapling	2	28	Balsam Fir		
Balsam Fir		25	Sapling	2				
Tamarack		5	Sapling	2				
<b>37</b>	4319 - Mixed Upland Forest	Poletimber Well	17.7	51	51-80	N/A	Mixed timber with some lowland areas. Aspen is the dominant species. There's scattered 9"+ balsam fir that looks to be past their prime, but there's a lot in the 5-6" class that is recruiting for a future prescription. There's a pocket of mostly black spruce along the north central stand border. The most consistent aspen is in the western 1/3 of the stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Spruce		3	Log	13		Red Maple		
Quaking Aspen		40	Pole/Sapling	6	51	Black Spruce		
Balsam Fir		25	Pole/Sapling	6		Balsam Fir		
Red Maple		13	Pole/Sapling	5				
Tamarack		3	Pole	7				
White Pine		2	Log/XLog	16				
Black Spruce		13	Pole	6				
Paper Birch		1	Pole	8				
<b>38</b>	4136 - Aspen, Mixed Conifer	Sapling Well	55.0	9	Immature	N/A	TCR 8/10/15 FTP for this stand is still open. Probably want to trench and plant site. 11/1/11 bb Stand is on proposal 19-11 Kuzzins Pine, part of Unit 5. Residual BA = cedar 2', white pine 7', red pine 5' and hemlock 1' Stand is covered under FTP C41-1517 for red pine regeneration. [8-10-12] Stand is now under contract. 5/3/17: Regen survey shows stand has pretty much converted to Aspen with RP component. Site was never scarified because of low ground, and site was not a pure Red pine stand. Many other species were harvested and the stand has sprouted back (fully stocked) to the species that were harvested.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		10	Sapling	3		Balsam Fir		
Red Pine		10	Log/XLog	16	76			
Quaking Aspen		70	Sapling	2	9			
Red Maple		10	Sapling	2				
<b>39</b>	622 - Lowland Shrub	Nonstocked	11.3		Unspecified	No	Mead Creek corridor - lowland brush, bog etc.	
<b>40</b>	42220 - Natural Jack Pine	Poletimber Well	14.0	40	51-80	N/A	Stand is regenerating well. A few scattered mature red pine are residuals from the previous stand. Some scattered red pine saplings that are mostly overtopped by the jack pine and aspen.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		3	Sapling/Pole	4		Balsam Fir		
Jack Pine		85	Pole/Sapling	5	40	Red Pine		
Quaking Aspen		12	Pole/Sapling	5				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>42</b>	4193 - Birch, Aspen	Sapling Well	13.6	27	Immature	N/A	Good regeneration. A few open areas throughout the stand. Some balsam fir was left uncut.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		40	Sapling	3	27	Balsam Fir	
Red Maple		4	Sapling	2		Trace	
Hemlock		1	Log/XLog	16		< 5 feet	
Black Cherry		10	Sapling	3		Sapling	
Sugar Maple		2	Sapling/Pole	4			
White Pine		2	Log/XLog	16			
Red Pine		1	Sapling	4			
Bigtooth Aspen		25	Sapling	3			
Balsam Fir		15	Pole/Sapling	5			

<b>43</b>	4110 - Sugar Maple Association	Sawtimber Well	14.7	90	51-80	N/A	Harvested in fall 2022 with Deer in the Creek Sale.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Hemlock		1	Log/Pole	11		Sugar Maple	
Sugar Maple		96	Log/Pole	12	90	Full	
Beech		3	Log/Pole	11		10 - 20 feet	
						Sapling	

<b>44</b>	42360 - Upland Cedar	Poletimber Well	91.1	98	171-200	N/A	A lot of dense cedar areas, but trees are on the smaller side with diameters tapering quickly to 2-3 sticks.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Tamarack		10	Pole	8		Tag Alder	
Paper Birch		5	Pole	7		Low	
Northern White Cedar		80	Pole	7	98	5 - 10 feet	
Black Spruce		5	Pole	6		Tall Shrub	
						Sapling	

<b>45</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	11.2	67	1-50	N/A	Wetter site that is growing into a forested stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Tamarack		20	Pole/Sapling	6		Balsam Fir	
Black Spruce		35	Pole/Sapling	5		Low	
Northern White Cedar		45	Pole/Sapling	6	67	5 - 10 feet	
						Tall Shrub	
						Sapling	

<b>46</b>	42210 - Natural Red Pine	Sawtimber Poor	4.2	98	51-80	N/A	41-003-23 unit 4 TCR: 1/25/23.
<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	15	98	Balsam Fir	
						Medium	
						5 - 10 feet	
						Sapling	
						Red Pine	
						Trace	
						< 5 feet	
						Sapling	
						White Pine	
						Trace	
						< 5 feet	
						Sapling	
						Red Maple	
						Medium	
						5 - 10 feet	
						Sapling	
						Quaking Aspen	
						Medium	
						5 - 10 feet	
						Sapling	
						Black Spruce	
						Trace	
						< 5 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47** 6129 - Mixed Coniferous Lowland Forest Sapling Medium 39.9 66 1-50 N/A Low quality slow growing site with a good mix of trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	18	Sapling/Pole	4		Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack	28	Sapling/Pole	4		Red Pine	Low	5 - 10 feet	Sapling
Black Spruce	49	Sapling/Pole	4	66				
White Pine	5	Sapling/Pole	4					

**48** 42220 - Natural Jack Pine Poletimber Medium 8.7 40 51-80 N/A Stand is growing into pole sized and will be a J6 next entry. Good thick regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	97	Pole/Sapling	5	40	Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen	3	Pole/Sapling	5		Black Spruce	Low	10 - 20 feet	Sapling

**49** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 28.3 91 81-110 N/A Mostly lowland. The middle narrow part of the stand is upland and the eastern end of this area contains more of the red maple and some red maple logs. The west end is a mix of lowland paper birch, red maple, and some black ash. The east end has most of the cedar. Paper birch is throughout the entire stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log	8		Red Maple	Low	Variable	Sapling
Hemlock	6	Log/XLog	16		Hemlock	Trace	< 5 feet	Sapling
Paper Birch	40	Pole	8	91	Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	1	Log/XLog	16					
Yellow Birch	1	Pole/Log	9					
White Spruce	5	Log/Pole	11					
Balsam Fir	6	Pole	6					
Northern White Cedar	10	Pole	9					

**50** 42380 - Non Pine Upland Conifer, Mixed Deciduous Sawtimber Medium 5.0 69 51-80 N/A Steep hill that runs down to lowland adjacent to creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole	8		Balsam Fir	Medium	Variable	Sapling
White Pine	10	Log	16		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	20	Pole	8					
Balsam Fir	40	Pole	8	69				

**51** 6229 - Mixed lowland shrub Nonstocked 7.0 0 Unspecified 612 - Lowland Coniferous Forest [1/14/19] TCR 2015 Kuzzins Pine. Some jack pine and black spruce is starting to regenerate.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling

OPIC - FMD: Slow-growing jack pine/spruce mix - harvest now or lose it. Retention guidelines will be met during sale preparation: jack pine and all other conifers are acceptable regeneration.

11/1/11 bb Stand is on proposal 19-11 Kuzzins Pine, part of Unit 3.  
Residual BA = red pine 1'  
[8-10-12] Stand is now under contract.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>52</b>	6126 - Lowland Jack Pine	Poletimber Medium	5.9	40	51-80	N/A	Lowland jack pine that is a bit behind stand 40 leaving it at an advanced J5, good amount of black spruce sub-canopy throughout the stand.																																													
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<b>53</b>	6224 - Treed Bog	Nonstocked	36.6		Unspecified	No	Scattered black spruce and tamarack.																																													
<b>54</b>	6126 - Lowland Jack Pine	Poletimber Medium	1.0	40	1-50	N/A	Small pocket of jack pine with some aspen.																																													
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<b>55</b>	42220 - Natural Jack Pine	Sapling Medium	9.0	20	Immature	N/A	Filling in with jack pine and some black spruce. Residual red pine was left from the harvest.																																													
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<b>56</b>	320 - Upland Shrub	Nonstocked	16.9	0	Unspecified	4222 - Natural Jack Pine	<p>[1/14/19] Part of Kuzzins Pine. Regeneration is starting to come in more than in the lowland stand 51.</p> <p>OPIC - FMD: Slow-growing jack pine/spruce mix - harvest now or lose it. Retention guidelines will be met during sale preparation: jack pine and all other conifers are acceptable regeneration.</p> <p>TCR of 019-11, 8/10/15</p> <p>11/1/11 bb Stand is on proposal 19-11 Kuzzins Pine, part of Unit 3. Residual BA = cedar 2', white pine 2', red pine 5'</p>																																													
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<b>57</b>	310 - Herbaceous Openland	Nonstocked	45.7	0	Unspecified	4211 - Planted Red Pine	41-003-21 Units 1,2. TCR:1/25/23																																													
<b>59</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.5	88	51-80	N/A	[1/19] Good variety of diameters in this stand. The south edge must have had a patch of mature aspen that was cut and now there's a thick patch of aspen saplings. OPIC - FMD: 11/1/11 bb Stand is on proposal 19-11 Kuzzins Pine, part of Unit 2. Residual BA = hard maple 24', red maple 49', white pine 1', red pine 2' and hemlock 2'[TCR 8/10/15 Sale complete																																													
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62	6122 - Black Spruce	Poletimber Poor	6.8	69	1-50	N/A	Slow growing but still relatively young black spruce stand. Getting closer to a Q5. The ground is on the wetter side for black spruce but we could operate in here eventually.																																																			
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63	42210 - Natural Red Pine	Sawtimber Poor	14.7	88	51-80	N/A	[2019] Canopy is healthy log/pole sized red pine, sub-canopy regeneration from previous harvest is a mix with aspen dominating. The red pine seedlings are alive yet but the aspen is now overtop most of them at double the height. BA varies and some areas are well below 50. [2009] Planted red pine seedlings mixed in with a variety of natural regen including white pine, fir, spruce and red maple; some areas are fully stocked w/aspen regen. The density of the residual red pine left for aesthetics varies from zero to 100 sq.ft. of basal area. Management Objective will be listed as red pine for this entry, but will be expected to change over time as the regen matures.																																																			
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64	42210 - Natural Red Pine	Sawtimber Well	8.3	86	111-140	N/A	Mead Creek campground.																																																			
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65	6122 - Black Spruce	Poletimber Well	9.2	96	111-140	N/A	The cedar is concentrated in a thin strip on the south and east edges. Leaving the cedar would make a nice buffer near the campground.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**66** 42210 - Natural Red Pine Sawtimber Well 5.3 95 111-140 N/A Red pine stand along Mead Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	70	Log/XLog/Pole	16	95	Balsam Fir	High	5 - 10 feet	Sapling
Northern White Cedar	2	Pole	9					
Jack Pine	16	Pole	9					
Quaking Aspen	1	Pole	8					
White Pine	3	Log/Pole	12					
White Spruce	2	Pole/Log	9					
Paper Birch	1	Pole	8					
Balsam Fir	5	Pole	7					

**67** 622 - Lowland Shrub Nonstocked 15.1 Unspecified No OPIC - FMD: Mead Creek corridor - lowland brush, bog etc.

**68** 42290 - Natural Mixed Pine Poletimber Well 3.5 72 111-140 N/A Save for campground aesthetics.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole	9		Balsam Fir	High	Variable	Sapling
White Pine	30	Log/XLog/Pole	14	99				
Red Pine	20	Log/Pole	12					
Quaking Aspen	10	Log/Pole	11					
Balsam Fir	4	Pole	5					
Jack Pine	35	Pole	8	72				

**69** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 9.8 89 81-110 N/A Slightly rolling terrain along the Manistique River. The center of the stand is more northern hardwoods and hemlock. The south, east and north parts of the stand is a MD mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Hemlock	5	Log	12		Balsam Fir	High	5 - 10 feet	Sapling
Quaking Aspen	3	Pole	9		Sugar Maple	Low	Variable	Sapling
Tamarack	1	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	3	Log/Pole	10					
Red Maple	40	Pole	9	89				
Balsam Fir	10	Pole	7					
Sugar Maple	15	Pole	9					
Northern White Cedar	5	Pole	9					
Paper Birch	15	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>70</b>	4134 - Aspen, Spruce/Fir	Sapling Well	30.2	18	Immature	N/A	Rolling terrain with about 30% of the stand being lower ground with aspen and balsam fir but also a medium amount of tag alder. Widely scattered residual red pine, white pine, black spruce and cedar left from the harvest.																																																						
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<b>71</b>	429 - Mixed Upland Conifers	Poletimber Medium	6.8	40	51-80	N/A	Residual red pine and white pine left from a treatment. Thick jack pine regeneration in the eastern 1/2 of the stand with balsam fir in the western 1/2.																																																						
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<b>72</b>	500 - Water	Nonstocked	3.8		Unspecified	No	Manistique River																																																						
<b>73</b>	122 - Road/Parking Lot	Nonstocked	11.4		Unspecified	No	County Road 436 R.O.W.																																																						
<b>74</b>	6122 - Black Spruce	Poletimber Medium	2.1	97	51-80	N/A	Close to an S6, could be cut when the adjoining jack pine stand is cut.																																																						
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<b>75</b>	310 - Herbaceous Openland	Nonstocked	27.7	0	Unspecified	4211 - Planted Red Pine	41-003-21 unit 3 TCR: 1/25/23. buffers left of low areas.																																																						
<b>76</b>	622 - Lowland Shrub	Nonstocked	2.0	0	Unspecified	No	Tag alder filled drainage with a few tamarack and black spruce. The south edge of this area was avoided with the recent harvest because of the low ground and few trees.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>78</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.5	96	81-110	N/A	Not ready for thinning yet. Could cut next entry along with the larger stand in the next compartment to the south. Or could cut next entry with stand 49 just north of this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Log/Pole/XLog	13	96	Balsam Fir	Trace	Variable	Sapling
Hemlock	5	Log/XLog	16		Red Maple	Full	10 - 20 feet	Sapling
White Pine	1	Log/XLog	16		White Pine	Trace	5 - 10 feet	Sapling
Red Maple	41	Log/Pole/XLog	13		Sugar Maple	Low	5 - 10 feet	Sapling
Yellow Birch	2	Log/Pole	12		Black Cherry	Trace	5 - 10 feet	Sapling
Beech	1	Pole/Log	8					

<b>401</b>	3102 - Grass	Nonstocked	1.5		Unspecified	No	
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<b>402</b>	3102 - Grass	Nonstocked	1.6		Unspecified	No	
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<b>403</b>	3102 - Grass	Nonstocked	0.9		Unspecified	No	
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