



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41050

Entry Year 2023

Acreage: 2,644

County Schoolcraft

Management Area: Seney Manistique Swamp

Stand Examiner: Adam Petrelius

Legal Description:

T43N R15W, Sections 1, 2, 3, 10, 11

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 702-715 feet. The eastern half of the compartment is mostly forested, while the western portion is mostly non-forest wetland. Forested land is a pretty even mixture between lowland hardwoods; poor quality northern hardwood, aspen, red pine, and lowland conifer cover types. The two most abundant soils are Markey Mucky Peat and Rousseau-Nocknish-Deford Complex.

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

State land within this compartment was acquired between 1929 and 1960. The compartment boundary borders private and state land. The western boundary borders a mix of private parcels, many containing camps. The compartment receives very minimal use and is mostly inaccessible. Some of the pine islands closer to roads have signs of hunters.

Unique Natural Features:

Under review

Archeological, Historical, and Cultural Features:

Under review

Special Management Designations or Considerations:

Most of this compartment is classified as a pattern fen ERA

Watershed and Fisheries Considerations:

NLMMU – John Bauman: This compartment contains headwater reaches of Little Duck Creek and borders the West Branch of the Manistique River. Little Duck Creek is a non-designated stream less than 50' width and has a predicted mean July temperature of 62.8 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for Little Duck Creek to protect riparian areas in accordance with Best Management Practices.

The West Branch of the Manistique River is a non-designated stream less than 50' width and has a predicted mean July temperature of 65.5 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended for the West Branch of the Manistique River to protect riparian 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. 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. Wildfire and windthrow appeared to be the primary types of natural disturbance within the compartment. Although jack pine is dominant along the Highwater Truck Trail, the remainder of the compartment appears to be quite similar to presettlement vegetation. Most of the ridges contain red and/or white pine with aspen and white birch mixed in. Inaccessibility is the primary reason for these stands remaining in tact. Wildlife habitat objectives include protecting the integrity of the marsh/ridge ecosystem, and increasing the availability of hard mast. Gray wolves (Federal and Michigan endangered) have been known to pass through this compartment. There may also be some potential for moose (Michigan special concern), sharp-tailed grouse (Michigan special concern), and yellow rail (Michigan threatened) to utilize this compartment. However, none of these three species have been documented within the compartment. Other wildlife species of interest include sand-hill crane, raven, meadow vole, and coyote.

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. The nearest active sand/gravel pits are approximately five miles to the southwest. Potential for non-metallic mineral development within the compartment appears to be limited. There is no other known mineral potential within the compartment, and no current mineral leasing activity exists in the area.

Vehicle Access:

Vehicle access is very limited. Private land on the western edge of the compartment prevents access. The interior portions are road less. The eastern edge of the compartment borders the Highwater Truck Trail.

Survey Needs:

none needed

Recreational Facilities and Opportunities:

The Highwater Truck Trail is a snowmobile trail and travels through the northeastern portion of the compartment.

Fire Protection:

Fire response time will be slow from any office. Much of the compartment is roadless access is difficult. Fuels within the compartment create potential for a large fire during periods of drought. Water sources are abundant.

Additional Compartment Information:

The following reports from the Inventory are attached:

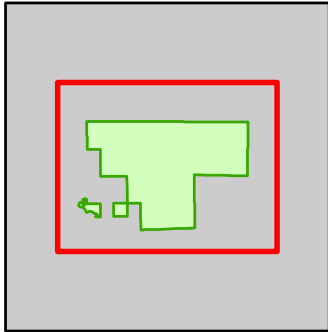
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

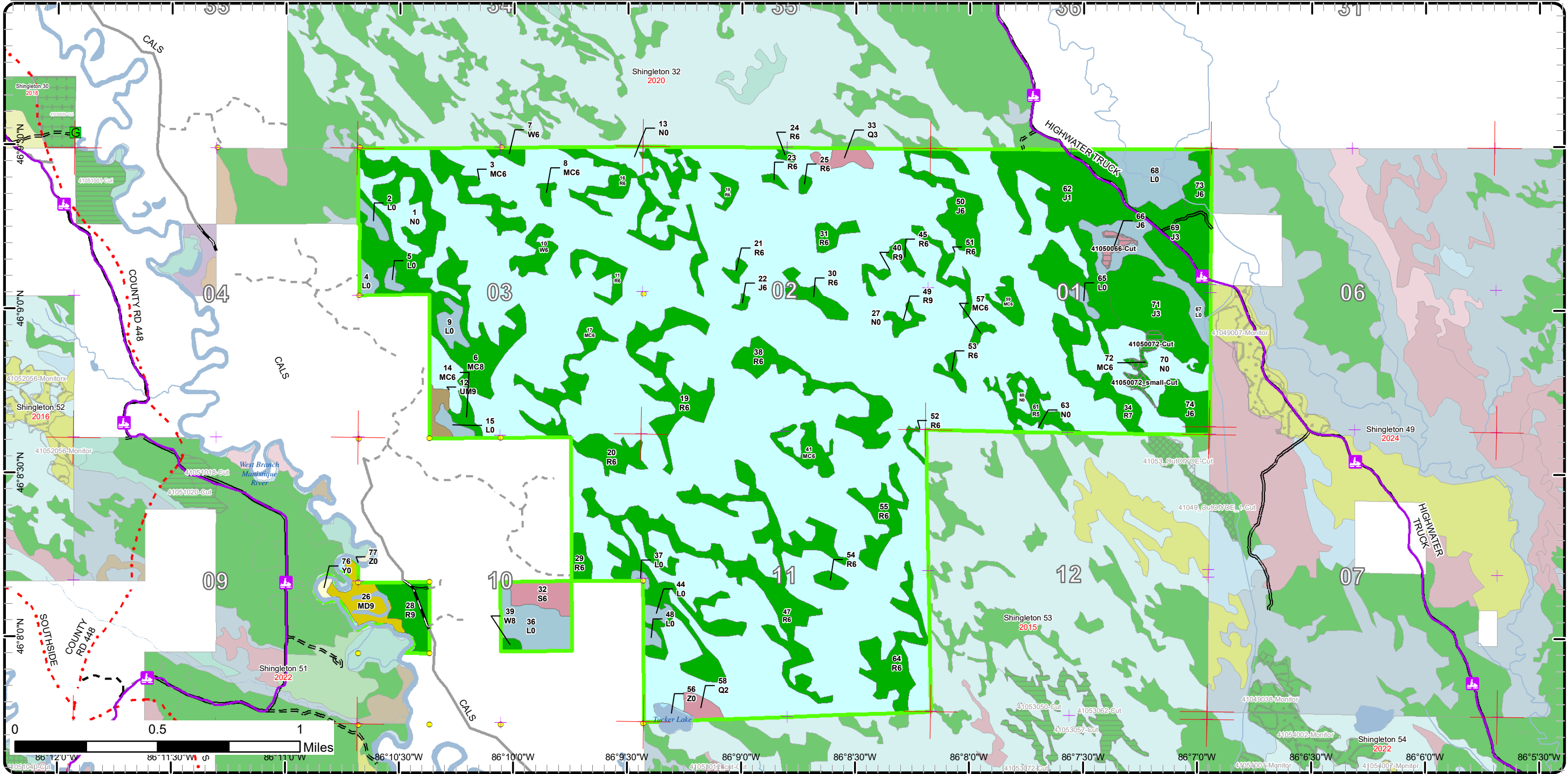
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 50
 T43N, R15W, Sec: 1-3, 9-11
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique
 Swamp
 YOE: 2023
 Acres: 2644 GIS Calculated
 Examiner: Adam Petrelius
 Map Revised: 1/28/2022
 Map Phase: Post Review

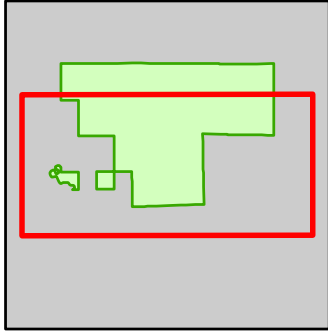


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- - - County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

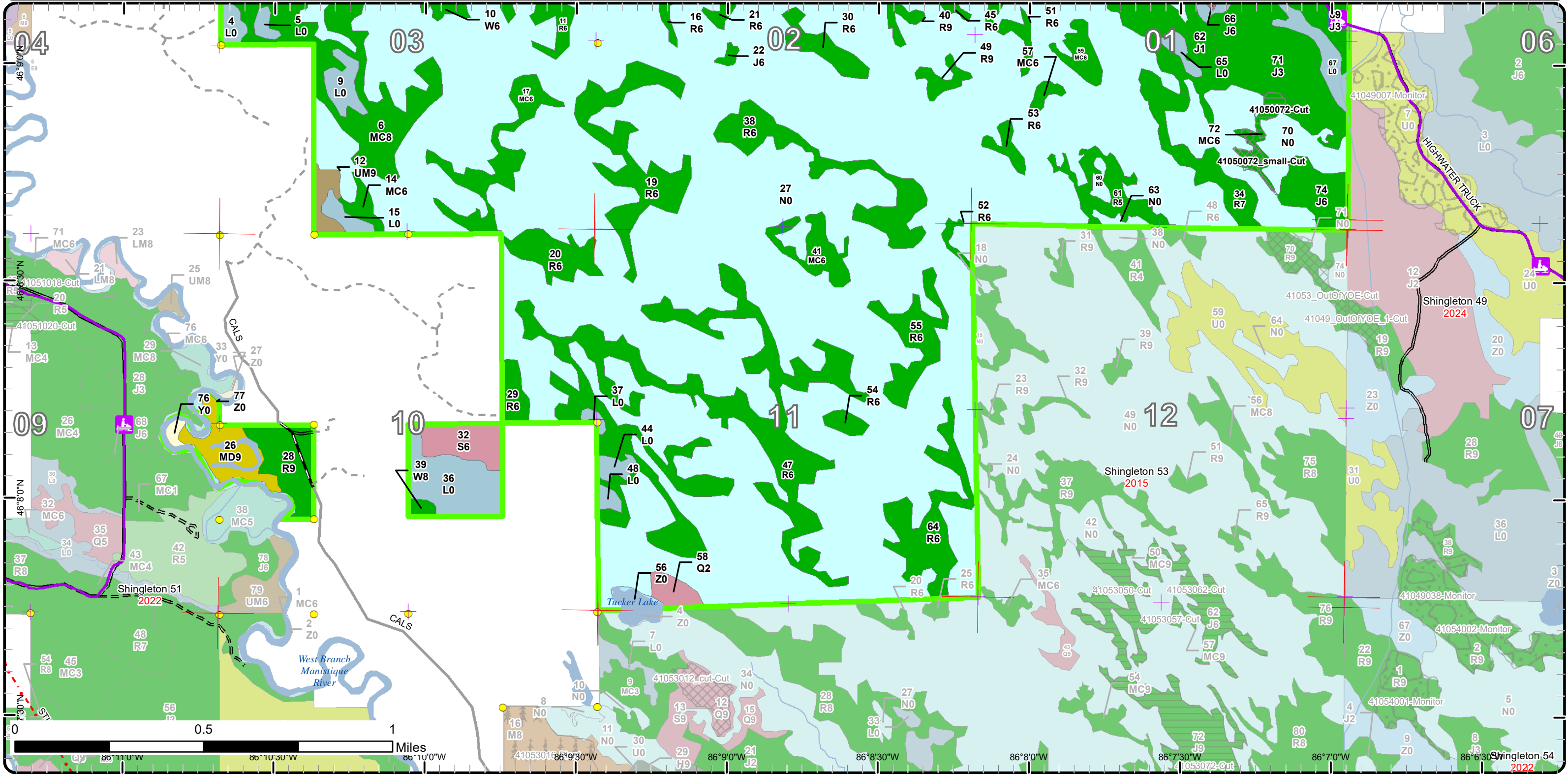


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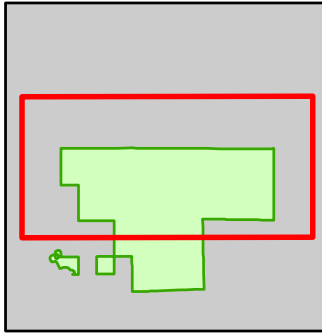


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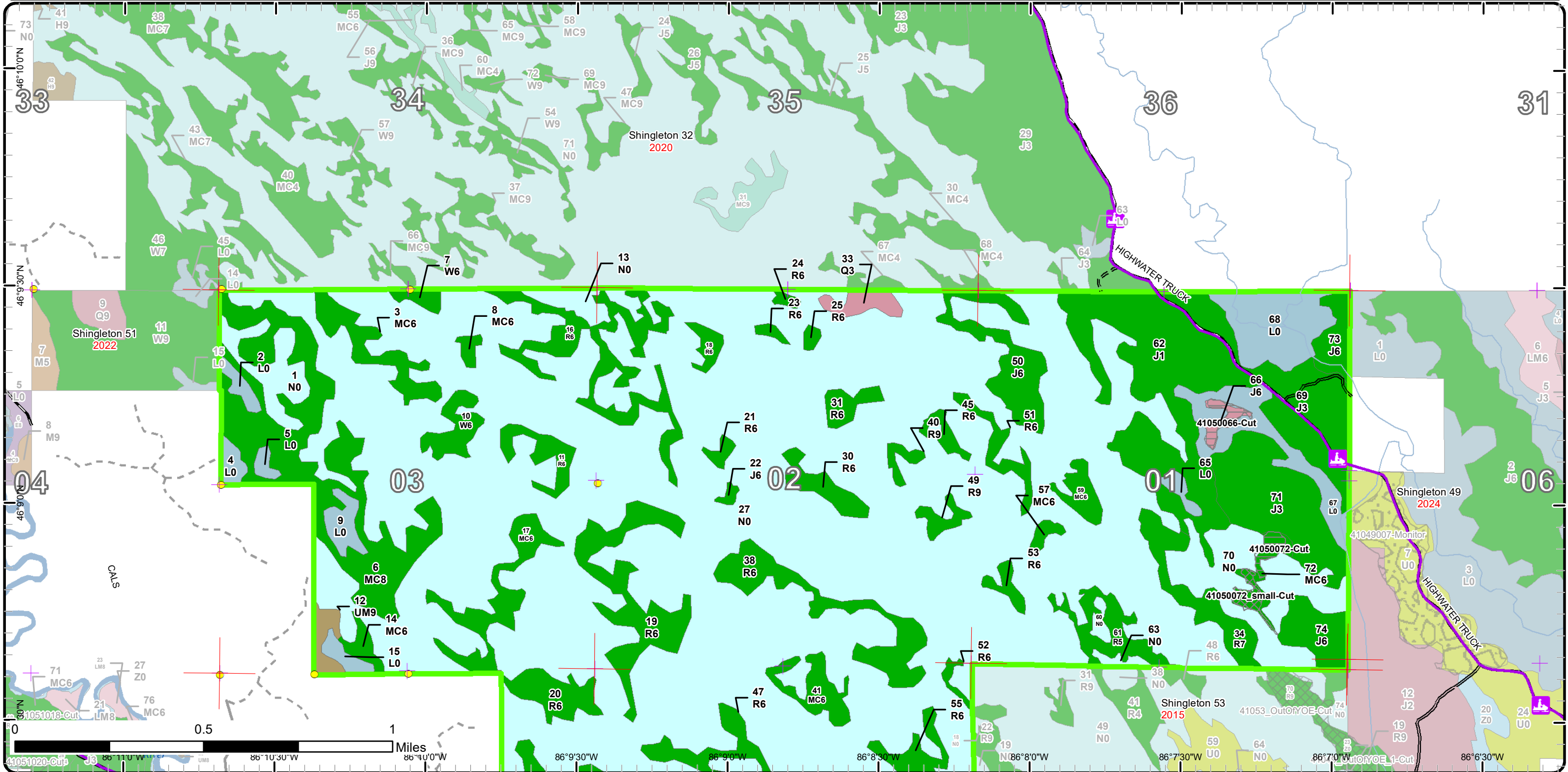


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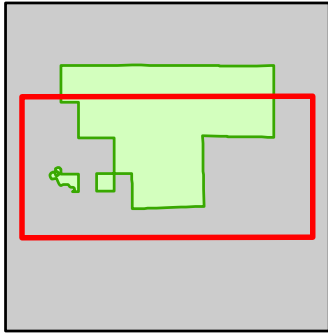


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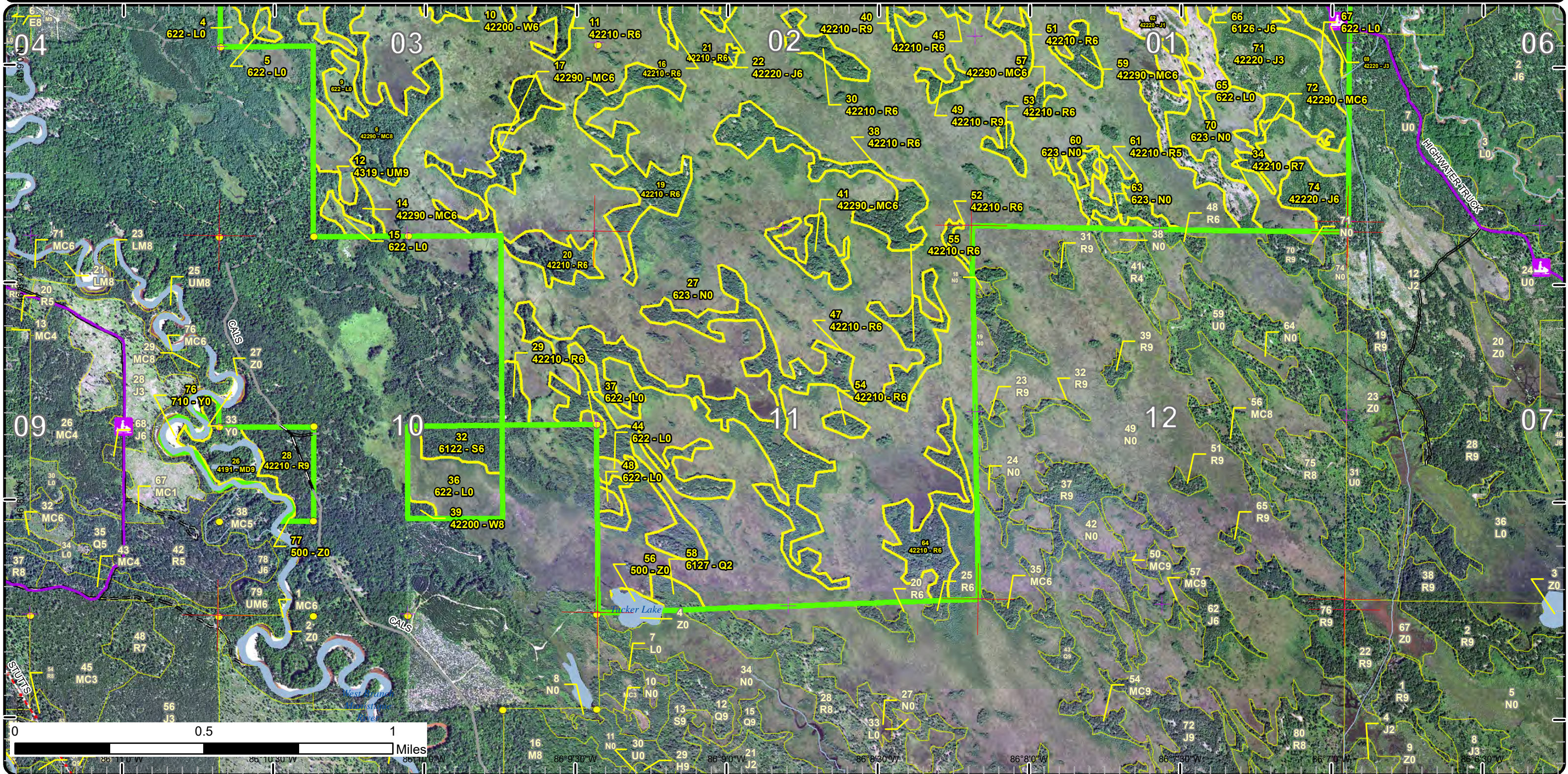


Stand Boundary Map

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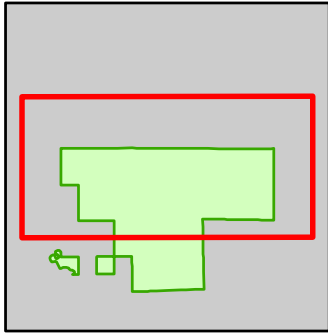


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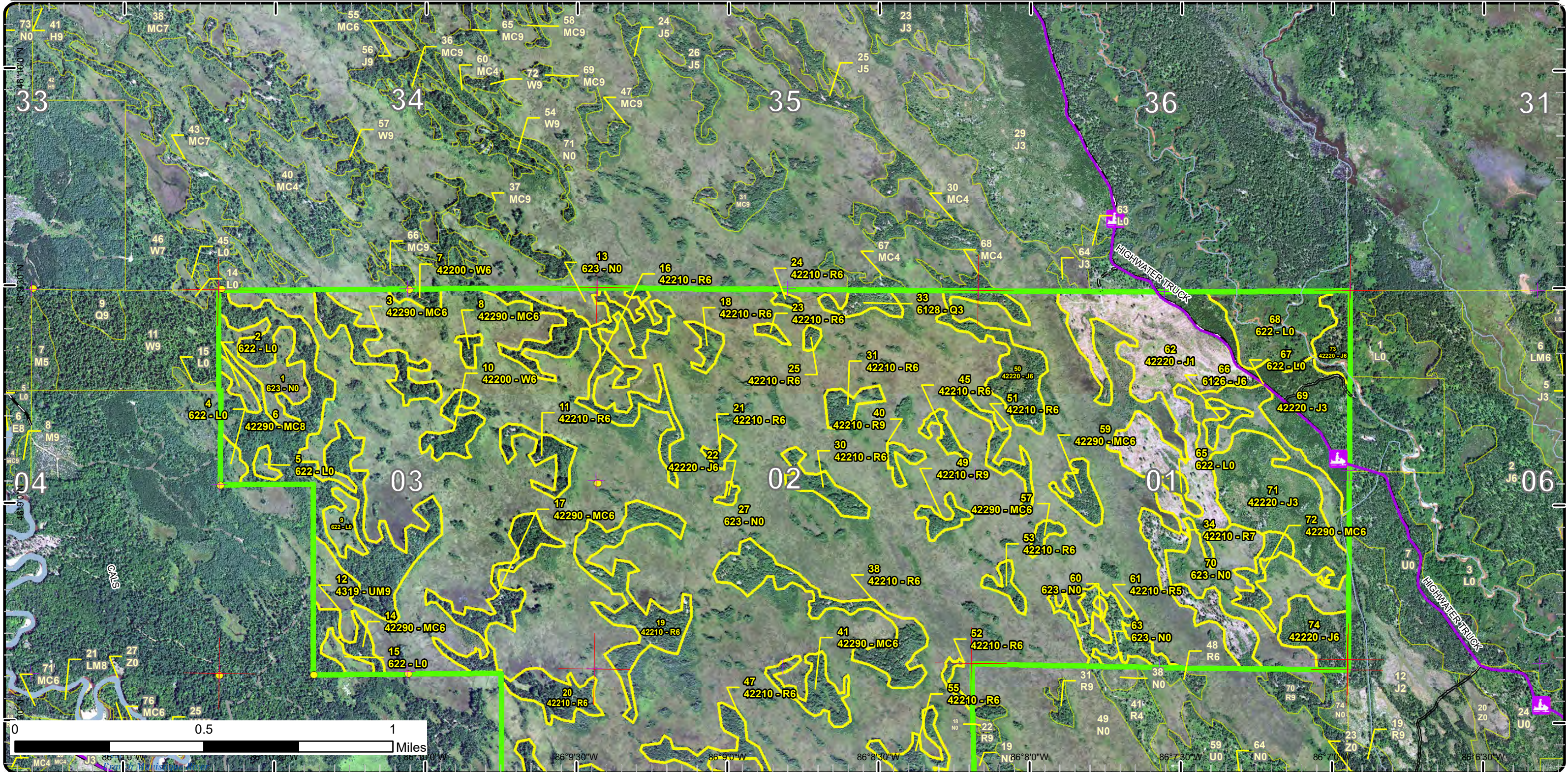


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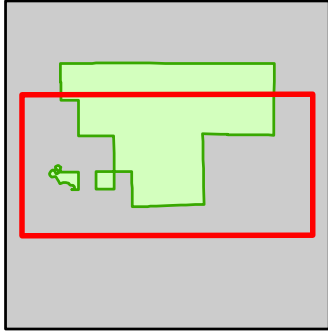


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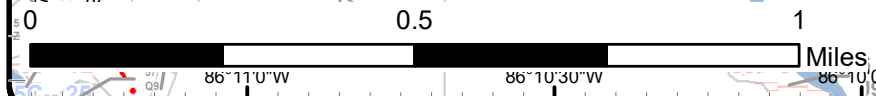
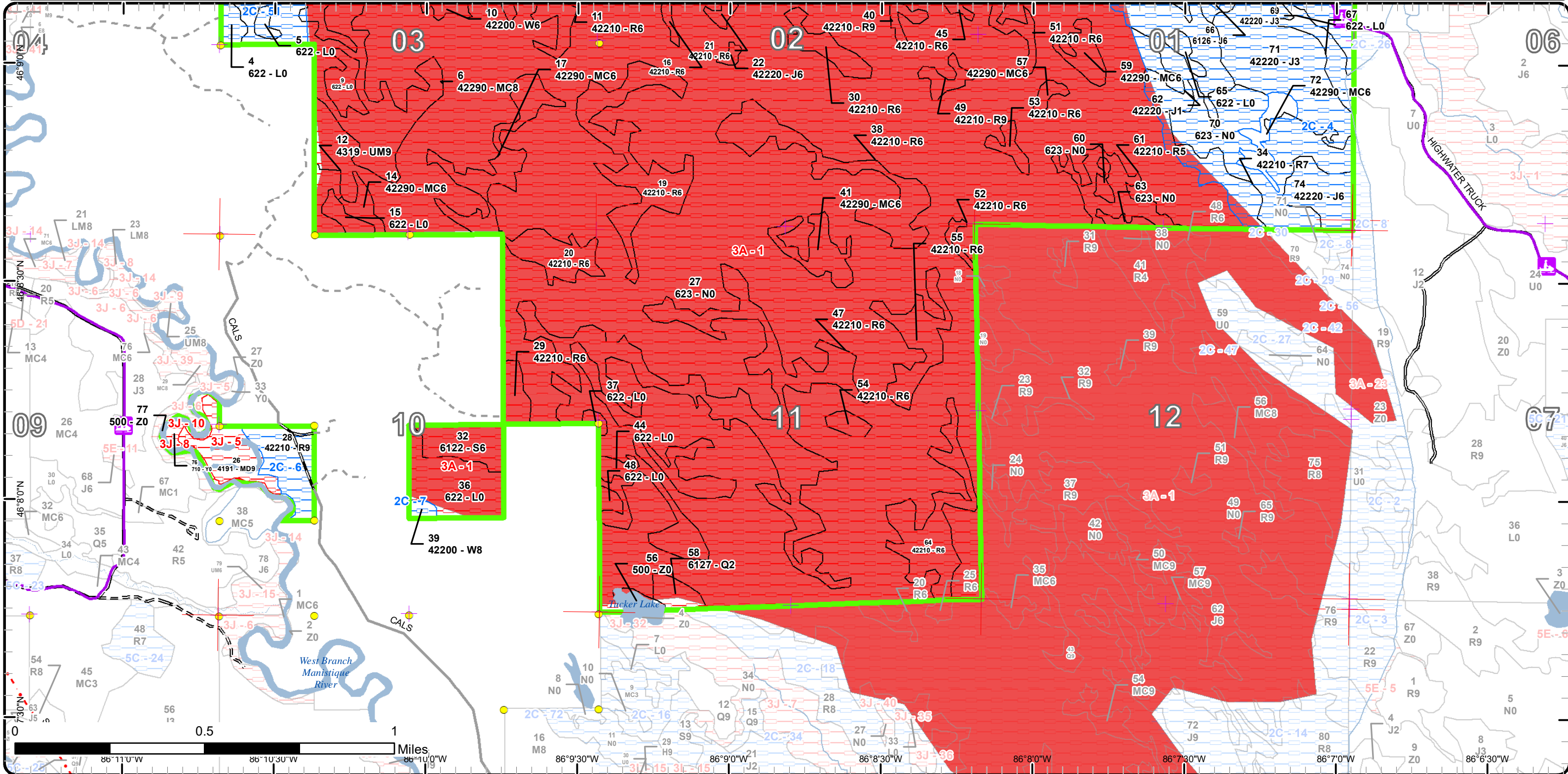


Special Conservation Areas

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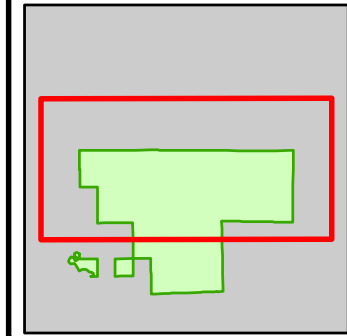


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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas

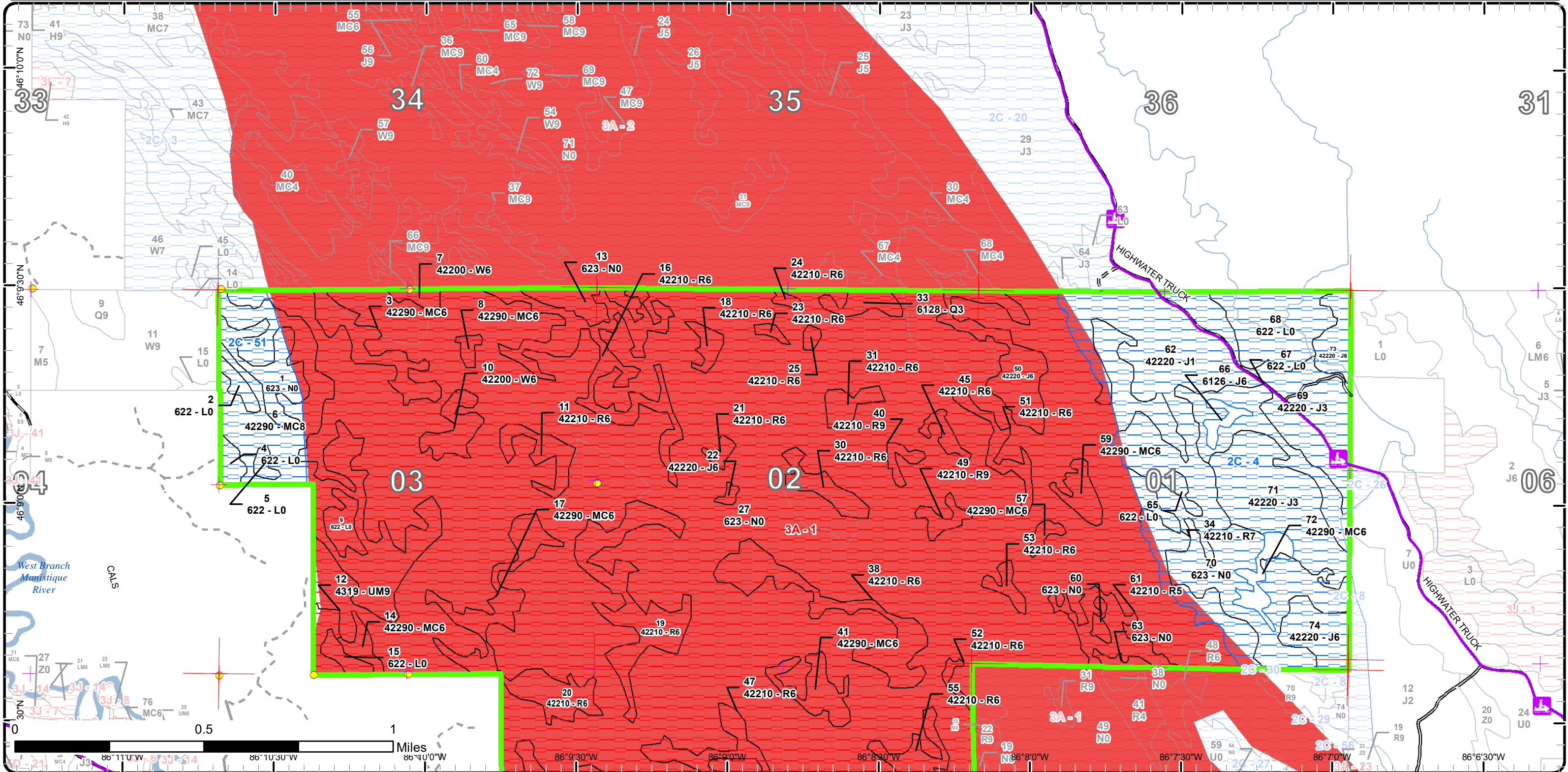


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Report 1 – Total Acres by Cover Type and Age Class



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
Jack Pine	0	87	0	92	40	0	0	1	11	4	0	0	0	0	0	0	0	0	235
Lowland Conifers	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Shrub	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Lowland Spruce/Fir	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Marsh	1671	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1671
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	31	92	27	12	0	0	0	0	0	0	0	161
Red Pine	0	0	0	0	0	0	0	197	180	16	0	0	0	0	0	0	0	0	392
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	0	2	14	0	0	0	0	0	0	0	0	16
Total	1794	87	0	92	53	14	0	229	307	61	12	0	0	0	0	0	0	0	2647



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 50

Total Compartment Acres: 2,644

Commercial Harvest - 10
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	3	0	0	0	0	0	0	0	0	3
Natural Mixed Pines	3	3	0	0	0	0	0	0	0	6
Total	6	3	0	0	0	0	0	0	0	10

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	10	0	0	0	0	0	0	0	0	10
Total	10	0	0	0	0	0	0	0	0	10



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

66	41050066-Cut	3.4	6126 - Lowland Jack Pine	Poletimber Well	85	Unspecified	Harvest	Clearcut with Retention	6126 - Lowland Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak if any are present. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Small stand, dying/water stressed trees. Retention will be snags and submerchantable trees remaining from harvest. Old next step comments: Lowland stand, scarification not possible. Regeneration walkthrough during following inventory cycle. Acceptable regen includes any species mixture currently found onsite. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2012</p>											
72	41050072_sm all-Cut	3.2	42290 - Natural Mixed Pine	Poletimber Well	85	81-110	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Uneven-Aged	No
<p><u>Prescription</u> Mark red pine and white pine to 30 sq. ft. Create gaps in canopy for regeneration where pine exists. Areas that have thicker young poles can be marked to 80. Cut all other species except hemlock and oak if present. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Access to stand is difficult so continuous thinning every 10 years is not possible. Old next step comments: Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2012</p>											
72	41050072-Cut	3.0	42290 - Natural Mixed Pine	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees except hemlock and oak if present. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Trees are dying and water stressed in this low portion of the stand. Old next step comments: Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture found onsite. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2012</p>											

Total Treatment 9.6
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 50
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions		
		With Condition				2C	3A	3J
234	4	204		26	Jack Pine	204	26	
13	0	0		13	Lowland Conifers		13	
112	0	70		42	Lowland Shrub	70	42	
14	0	0		14	Lowland Spruce/Fir		14	
1671	0	88		1583	Marsh	88	1,583	
16	0	0		16	Mixed Upland Deciduous			16
161	8	36		117	Natural Mixed Pines	36	117	
392	0	38		354	Red Pine	38	354	
2	0	0		2	Sand, Soil			2
6	0	0		6	Upland Mixed Forest		6	
9	0	0		9	Water		4	5
16	0	2		13	White Pine	2	13	
2,644	12	437		2,195	Total Forested Acres	437	2,171	23
	0%	17%		83%	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	3A: Conservation Values incompatible with harvest at this time	2,172	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	352	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 50
Year of Entry: 2023

5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 50
Year of Entry: 2023

51	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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
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1	623 - Emergent Wetland	Nonstocked	17.6		Unspecified	No	
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2	622 - Lowland Shrub	Nonstocked	3.8		Unspecified	No	
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3	42290 - Natural Mixed Pine	Poletimber Well	16.4	83	51-80	N/A	select cut in 1988
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Red Pine	Medium	10 - 20 feet	Sapling
Red Pine	40	Pole/Sapling	8	83	Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	5	Pole/Sapling	5		Jack Pine	Medium	10 - 20 feet	Sapling
Quaking Aspen	5	Pole	7		White Pine	Medium	10 - 20 feet	Sapling
Jack Pine	5	Pole/Sapling	6					
Red Maple	5	Pole	8					
White Pine	35	Pole/Sapling	8					

4	622 - Lowland Shrub	Nonstocked	4.2		Unspecified	No	
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5	622 - Lowland Shrub	Nonstocked	2.3		Unspecified	No	
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6	42290 - Natural Mixed Pine	Sawtimber Medium	86.9	73	51-80	N/A	[10/3/18 TI] This stand was part of the Lost Communication Sale #41-023-13-01. The sale was turned in and never cut.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	5		Balsam Fir	Low	10 - 20 feet	Sapling
Bigtooth Aspen	5	Pole	7		Black Spruce	Medium	10 - 20 feet	Sapling
Jack Pine	3	Pole	7		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Paper Birch	3	Pole	8		Red Pine	Low	10 - 20 feet	Sapling
Red Pine	30	Log/Pole	14		White Pine	High	10 - 20 feet	Sapling
Red Maple	2	Pole	8					
White Pine	52	Log/Pole	14	73				

7	42200 - Natural White Pine	Poletimber Well	3.6	83	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	80	Pole/Log	9	83	Black Spruce	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole	7					
Red Pine	10	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	42290 - Natural Mixed Pine	Poletimber Well	2.3	83	81-110	N/A	select cut in 1988
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		45	Pole/Log	9	83	White Pine	
Paper Birch		5	Pole	5		Black Spruce	
Jack Pine		5	Pole	8		Density	
White Pine		45	Pole/Log	8		Avg. Height	
						Size	
9	622 - Lowland Shrub	Nonstocked	7.1		Unspecified	No	
10	42200 - Natural White Pine	Poletimber Well	9.9	82	1-50	N/A	select cut in 1988
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		60	Pole/Sapling	8	82	Red Pine	
Red Pine		20	Pole/Sapling	8		Black Spruce	
Paper Birch		5	Pole	6		Jack Pine	
Jack Pine		5	Pole/Sapling	7		White Pine	
Black Spruce		10	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
11	42210 - Natural Red Pine	Poletimber Well	9.4	83	51-80	N/A	select cut in 1988
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log	12		Red Pine	
Red Pine		80	Pole	8	83	White Pine	
Quaking Aspen		10	Pole	6		Black Spruce	
Paper Birch		5	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
12	4319 - Mixed Upland Forest	Sawtimber Well	6.2	71	51-80	N/A	Stand was prepped as part of Lost Communication Sale #41-023-13-01. The sale was returned and no cutting occurred. TCR Date 7/30/2018.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		50	Log/Pole	15	71	Black Spruce	
Bigtooth Aspen		15	Pole	8		White Pine	
Red Maple		35	Pole	8		Density	
						Avg. Height	
						Size	
13	623 - Emergent Wetland	Nonstocked	10.7		Unspecified	No	
14	42290 - Natural Mixed Pine	Poletimber Well	4.5	71	81-110	N/A	Stand was prepped as part of Lost Communication Sale #41-023-13-01. The sale was returned and no cutting occurred. TCR Date 7/30/2018.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		30	Log/Pole	13		White Pine	
Red Pine		42	Pole/Log	9	71	Black Spruce	
Jack Pine		28	Pole	7		Density	
						Avg. Height	
						Size	
15	622 - Lowland Shrub	Nonstocked	4.3		Unspecified	No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	42210 - Natural Red Pine	Poletimber Well	36.5	62	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		70	Pole/Log	8	62	Black Spruce	
White Pine		15	Pole/Log	8		White Pine	
Paper Birch		3	Pole	6		Red Pine	
Jack Pine		5	Pole	7			
Bigtooth Aspen		7	Pole	7			
						Density	Avg. Height
							Size
17	42290 - Natural Mixed Pine	Poletimber Well	20.9	66	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	6		White Pine	
Bigtooth Aspen		5	Pole	5		Red Pine	
Jack Pine		5	Pole	7		Black Spruce	
White Pine		40	Pole/Log	9			
Paper Birch		5	Pole	6			
Red Pine		40	Pole/Log	9	66		
						Density	Avg. Height
							Size
18	42210 - Natural Red Pine	Poletimber Well	4.2	64	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		60	Pole/Log	9	64	White Pine	
White Pine		40	Pole/Log	9		Black Spruce	
						Density	Avg. Height
							Size
19	42210 - Natural Red Pine	Poletimber Well	33.2	64	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		70	Pole/Log	8	64	Black Spruce	
Jack Pine		5	Pole	7		White Pine	
White Pine		20	Pole/Log	7		Red Pine	
Black Spruce		5	Pole	6			
						Density	Avg. Height
							Size
20	42210 - Natural Red Pine	Poletimber Well	13.3	66	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		5	Pole	5		Red Pine	
Red Pine		80	Pole	8	66	White Pine	
White Pine		10	Pole	8			
Jack Pine		5	Pole	7			
						Density	Avg. Height
							Size
21	42210 - Natural Red Pine	Poletimber Well	2.3	64	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		10	Pole	7		Red Pine	
White Pine		20	Pole/Log	9		Black Spruce	
Red Pine		70	Pole/Log	9	64		
						Density	Avg. Height
							Size



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	42220 - Natural Jack Pine	Poletimber Well	1.3	64	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		10	Pole/Log	9		Black Spruce	Low	5 - 10 feet	Sapling
Jack Pine		80	Pole	8	64	White Pine	Low	5 - 10 feet	Sapling
White Pine		10	Pole/Log	9					
23	42210 - Natural Red Pine	Poletimber Well	1.6	64	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole/Log	9	64	Red Pine	Low	< 5 feet	Sapling
						White Pine	Low	< 5 feet	Sapling
24	42210 - Natural Red Pine	Poletimber Well	1.5	64	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		70	Pole/Log	9	64	Black Spruce	Low	< 5 feet	Sapling
White Pine		30	Pole/Log	9		White Pine	Low	< 5 feet	Sapling
25	42210 - Natural Red Pine	Poletimber Well	1.6	64	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		70	Pole/Log	9	64	White Pine	Low	< 5 feet	Sapling
White Pine		30	Pole/Log	9		Black Spruce	Low	5 - 10 feet	Sapling
26	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.0	71	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		30	Log/XLog	16		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine		10	Log/XLog	16		Red Maple	High	10 - 20 feet	Sapling
Paper Birch		20	Pole	8					
Red Maple		40	Pole	9	71				
27	623 - Emergent Wetland	Nonstocked	1,589.5		Unspecified	No			
28	42210 - Natural Red Pine	Sawtimber Well	18.5	73	51-80	N/A	Stand was prepped as part of Lost Communication Sale #41-023-13-01. The sale was returned and no cutting occurred. TCR Date 7/30/2018.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		60	Log/Pole/XLog	16	73	White Pine	High	10 - 20 feet	Sapling
White Pine		30	Log/Pole/XLog	16		Red Pine	Medium	10 - 20 feet	Sapling
Jack Pine		5	Pole	9					
Paper Birch		5	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	42210 - Natural Red Pine	Poletimber Well	6.4	81	51-80	N/A	Thinned in 1990
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		20	Pole/Log	8		Jack Pine	
Paper Birch		10	Pole	8		White Pine	
Red Pine		60	Pole	8	81	Black Spruce	
Quaking Aspen		5	Pole	7			
Black Spruce		5	Pole	6			
30	42210 - Natural Red Pine	Poletimber Well	9.1	69	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		30	Log/Pole	12		White Pine	
Red Pine		70	Pole/Log	9	69	Red Pine	
						Black Spruce	
31	42210 - Natural Red Pine	Poletimber Well	6.2	64	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		70	Pole/Log	9	64	White Pine	
White Pine		30	Pole/Log	8		Red Pine	
						Black Spruce	
32	6122 - Black Spruce	Poletimber Well	13.5	49	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		5	Pole/Sapling	5		Jack Pine	
Tamarack		15	Pole	5		Black Spruce	
White Pine		10	Pole/Log	9			
Black Spruce		70	Pole	6	49		
33	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	6.7	34	1-50	N/A	clearcut in 1988
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		30	Sapling/Pole	4	34		
Jack Pine		10	Sapling/Pole	5			
Bigtooth Aspen		10	Sapling/Pole	4			
Red Pine		10	Pole/Sapling	5			
Red Maple		10	Sapling/Pole	4			
White Pine		10	Pole/Sapling	5			
Tamarack		20	Sapling/Pole	4			
34	42210 - Natural Red Pine	Sawtimber Poor	19.4	71	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Log	16	71	Jack Pine	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
36	622 - Lowland Shrub	Nonstocked	23.7		Unspecified	No																																							
37	622 - Lowland Shrub	Nonstocked	1.6		Unspecified	No																																							
38	42210 - Natural Red Pine	Poletimber Well	28.2	64	111-140	N/A																																							
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39	42200 - Natural White Pine	Sawtimber Medium	2.1	70	81-110	N/A																																							
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41	42290 - Natural Mixed Pine	Poletimber Well	11.7	92	111-140	N/A																																							
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47	42210 - Natural Red Pine	Poletimber Well	112.5	70	51-80	N/A	thinned in 1990. Some areas of the stand were missed during previous thinning.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	622 - Lowland Shrub	Nonstocked	2.2		Unspecified	No			
49	42210 - Natural Red Pine	Sawtimber Well	4.4	69	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		40	Log/Pole	14		White Pine	Low	10 - 20 feet	Sapling
Red Pine		60	Pole/Log	9	69				
50	42220 - Natural Jack Pine	Poletimber Well	24.0	34	1-50	N/A	clearcvt in1988		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		20	Pole/Sapling	6					
White Pine		10	Pole/Sapling	6					
Red Maple		5	Pole	5					
Jack Pine		60	Pole/Sapling	5	34				
Black Spruce		5	Sapling/Pole	5					
51	42210 - Natural Red Pine	Poletimber Well	8.2	69	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		70	Pole/Log	9	69	White Pine	Low	5 - 10 feet	Sapling
White Pine		30	Pole/Log	9		Black Spruce	Low	5 - 10 feet	Sapling
52	42210 - Natural Red Pine	Poletimber Well	1.9	67	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		70	Pole/Log	9	67	White Pine	Medium	10 - 20 feet	Sapling
White Pine		30	Pole/Log	8		Red Pine	Medium	5 - 10 feet	Sapling
						Black Spruce	Medium	5 - 10 feet	Sapling
53	42210 - Natural Red Pine	Poletimber Well	4.0	67	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		95	Pole/Log	9	67	Red Pine	Medium	10 - 20 feet	Sapling
White Pine		5	Pole/Log	9		White Pine	Low	10 - 20 feet	Sapling
54	42210 - Natural Red Pine	Poletimber Well	3.5	77	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		80	Pole/Log	9	77	Red Pine	Medium	5 - 10 feet	Sapling
White Pine		20	Pole/Log	9		White Pine	Medium	5 - 10 feet	Sapling
						Black Spruce	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	42210 - Natural Red Pine	Poletimber Well	17.4	66	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		10	Pole	7		Red Pine	Low	5 - 10 feet	Sapling
Red Pine		70	Pole/Log	8	66	White Pine	Medium	5 - 10 feet	Sapling
White Pine		20	Pole/Log	8		Black Spruce	Low	5 - 10 feet	Sapling
56	500 - Water	Nonstocked	3.6		Unspecified	No			
57	42290 - Natural Mixed Pine	Poletimber Well	2.6	67	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		30	Pole	8		White Pine	Low	10 - 20 feet	Sapling
White Pine		30	Log/Pole	14		Red Pine	Low	10 - 20 feet	Sapling
Red Pine		40	Pole/Log	9	67				
58	6127 - Lowland Pine	Sapling Medium	5.9	31	1-50	N/A	dead overstory of pine due to water levels.		
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		50	Sapling	4	31				
Red Pine		10	Log	14					
Black Spruce		40	Sapling	2					
59	42290 - Natural Mixed Pine	Poletimber Well	7.4	69	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		40	Pole/Log	9	69	White Pine	Low	10 - 20 feet	Sapling
White Pine		30	Log/Pole	12		Red Pine	Low	10 - 20 feet	Sapling
Jack Pine		30	Pole	8					
60	623 - Emergent Wetland	Nonstocked	2.3		Unspecified	No			
61	42210 - Natural Red Pine	Poletimber Medium	15.6	67	1-50	N/A	cvt winter 2010 frozen paint sale		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		70	Pole/Log/Sap	7	67	White Pine	Low	5 - 10 feet	Sapling
White Pine		30	Pole/Log	7		Red Pine	Low	5 - 10 feet	Sapling
62	42220 - Natural Jack Pine	Sapling Poor	86.9	6	1-50	N/A	Scarified in 2016. Checked regeneration in year 3, October 2019. Looks excellent.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		5	XLog/Log	18					
Jack Pine		90	Sapling	1	6				
Red Maple		5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	623 - Emergent Wetland	Nonstocked	2.4		Unspecified	No			
64	42210 - Natural Red Pine	Poletimber Well	26.3	78	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		20	Pole	8		Red Pine	Medium	5 - 10 feet	Sapling
Red Pine		60	Pole/Log	8	78	White Pine	Medium	5 - 10 feet	Sapling
White Pine		20	Pole/Log	9		Black Spruce	Low	5 - 10 feet	Sapling
65	622 - Lowland Shrub	Nonstocked	2.9		Unspecified	No			
66	6126 - Lowland Jack Pine	Poletimber Well	3.6	85	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		10	Pole/Log	9		Black Spruce	Medium	5 - 10 feet	Sapling
White Pine		5	Pole/Log	8					
Black Spruce		30	Pole/Sapling	6					
Jack Pine		55	Pole/Sapling	7	85				
67	622 - Lowland Shrub	Nonstocked	25.2		Unspecified	No			
68	622 - Lowland Shrub	Nonstocked	31.1		Unspecified	No			
69	42220 - Natural Jack Pine	Sapling Well	45.3	23	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		95	Sapling/Pole	4	23				
Red Pine		5	Log	14					
70	623 - Emergent Wetland	Nonstocked	48.3		Unspecified	No			
71	42220 - Natural Jack Pine	Sapling Well	46.6	23	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		95	Sapling	3	23				
Black Spruce		5	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
72	42290 - Natural Mixed Pine	Poletimber Well	8.0	85	81-110	N/A																																							
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76	710 - Sand, Soil	Nonstocked	2.0		Unspecified	No	Sand bar in west branch of manistique river.																																						
77	500 - Water	Nonstocked	5.3		Unspecified	No																																							