



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41053

Entry Year 2025

Acreage: 2,206

County Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Steve Touvila

Legal Description:

T43N, R15W, Sections 12-15

Identified Planning Goals:

Timber, wildlife, fisheries, and recreation are the main uses of this area. The goal is to manage for all uses simultaneously and to provide, enhance, and perpetuate their uses through proper management. Proposed forest treatments will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and topography:

The terrain in this compartment is relatively flat; however, there are upland ridges of pine protruding into the open marsh. Most of the upland types within this compartment are well drained Wallace Sands. The lowland marshes are poorly drained Houghton soil types. The banks around the West Branch Manistique River are highly erodable and are continually depositing sand in the river. The majority of the compartment lies within the Manistique Sloughs/Muskeg Land Type Association (LTA), the West Branch River corridor is within the West Branch Manistique LTA and the extreme west portion of the compartment in the Section 15 is within Hickey Creek Peatlands LTA.

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

Land ownership in the compartment is contiguous on the west side of the West Branch of the Manistique River. On the east side of the river, there are two smaller blocks. The Department does not currently have easements through the private portions of Cal's Drive. This often causes conflict with any land management activities. If at all possible, acquiring easements along this road would be very beneficial. Development in the area is minor, the private in-holdings do not often change hands and the cabins on the lands have been there for many years.

Unique Natural Features:

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

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The Walsh Ditch on the eastern edge of the compartment is a man-made ditch, it was blocked in 1997 to try and revert water back to its original course of Little Duck Creek. Beaver have a large impact on the resource in this area.

Watershed and Fisheries Considerations:

This compartment contains the West Branch Manistique River, Tucker Lake, and an unnamed stream that serves as a tributary to Duck Creek. The West Branch Manistique River and the unnamed tributary are non-designated streams less than 50-foot wide. A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for the West Branch Manistique River, Tucker Lake, and the unnamed tributary to protect these areas in accordance with Best Management Practices.

There are elemental occurrences of the State Threatened Wood Turtle within this compartment. Forestry activities that occur from April 1 through October 31 (active period) will accommodate a 300-foot no-cut buffer along the riparian management zone to protect Wood Turtle during the nesting, post-nesting, and pre-hibernation periods. Forestry activities that occur from November 1 through May 31 (non-active period) will accommodate a 100-foot no-cut buffer along the riparian management zone per best management practices. Stands 45 and 12 need appropriate buffers to protect Wood Turtle.

Wildlife Habitat Considerations:

This compartment is located in the Seney sand lake plain ecological sub-subsection. The eastern portion of the compartment is dominated by marsh/low pine ridge complex. The western side of the compartment contains primarily jack pine and northern hardwood systems. Circa 1850 the pine ridges contained red, white, and jack pine, aspen and white birch. The soils with more loam supported hemlock, sugar maple, yellow birch, red maple, and fir. The current vegetation appears to be quite similar in species composition, with a shift toward more jack pine that was found in 1850. Wildlife

habitat objectives in this compartment include protecting stream corridors, promoting age class diversity within the conifer forests and maintaining species and structural diversity within the hardwood stands. Wildlife species of special interest potentially utilizing this compartment include moose, Kirtland's warbler, and yellow rail.

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 known active sand/gravel pit is four miles west. The compartment is dominated by wetlands, which would inhibit significant surface mining. There may be some potential for minor amounts of sand in Sec 15 on the uplands. No current mineral leasing activity exists in the area, and there are no notable prospects for mineral development in the area at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

On the west side of the compartment, there is a well-established road system. These roads are sand forest roads and are can be driven throughout most times of the year. On the east side, the main access is on Cal's Drive. The interior of the compartment does not have an established road system and the best way to gain access is in the winter by snowmobile.

Survey Needs:

43N-15W-15 SESW

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment. Secluded hunting opportunities do exist.

Fire Protection:

The pine ridge/marsh system in this area is susceptible to wildfire especially during drought conditions.

Additional Compartment Information:

The following reports from the Inventory are attached:

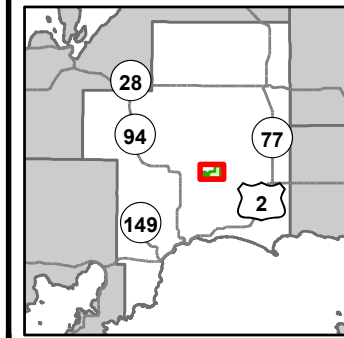
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

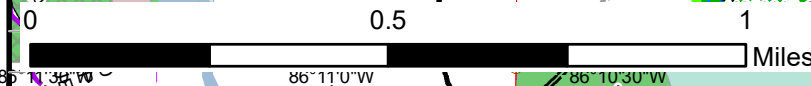
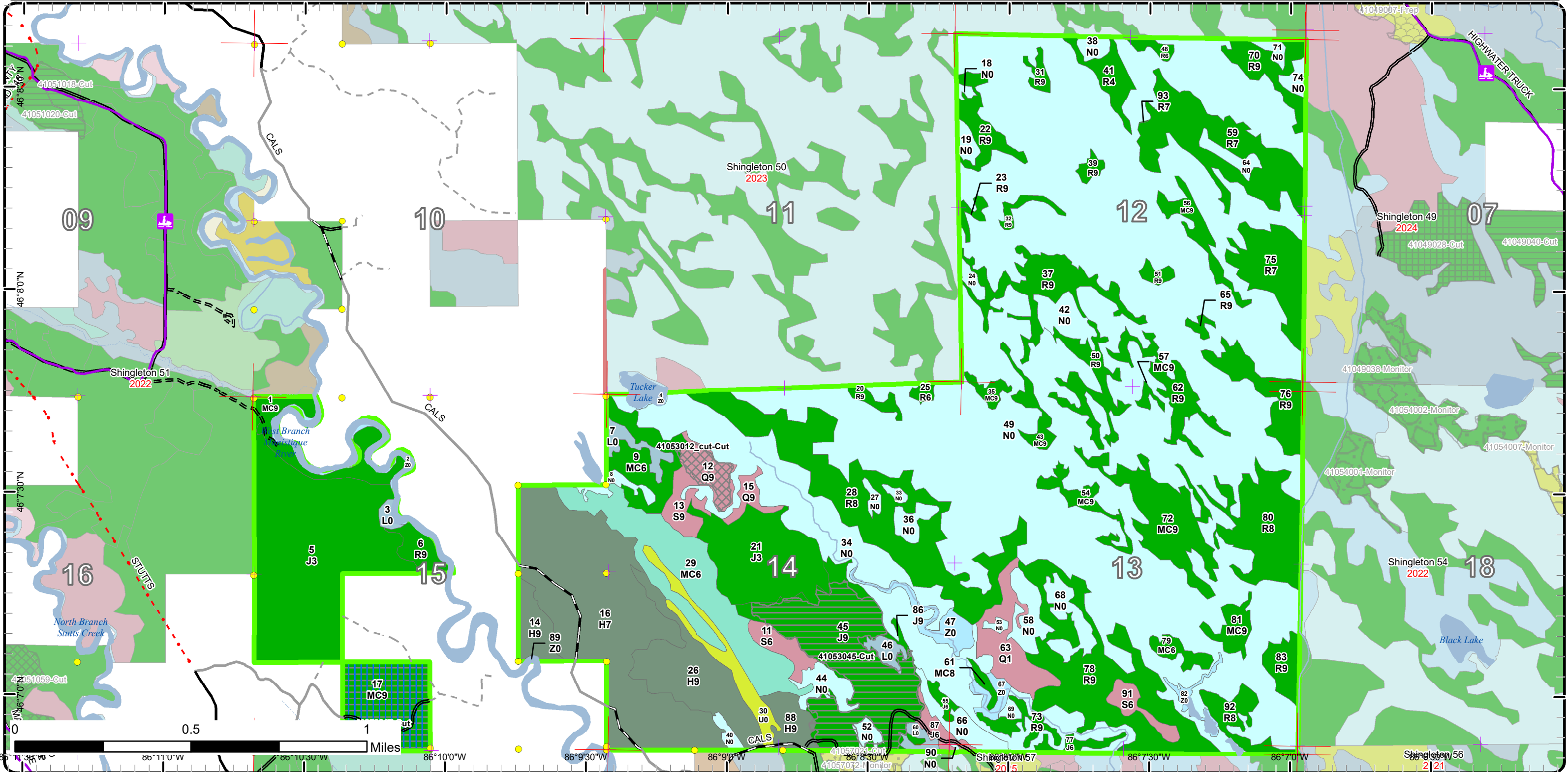
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 53
 T43N, R15W, Sec. 12-15
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2025
 Acres: 2205.5 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 8/21/2023
 Map Phase: Review



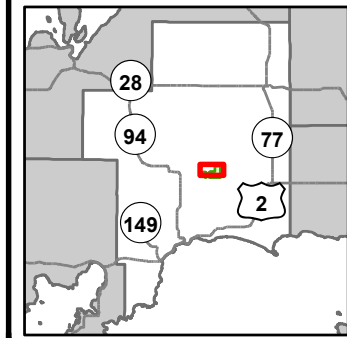
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



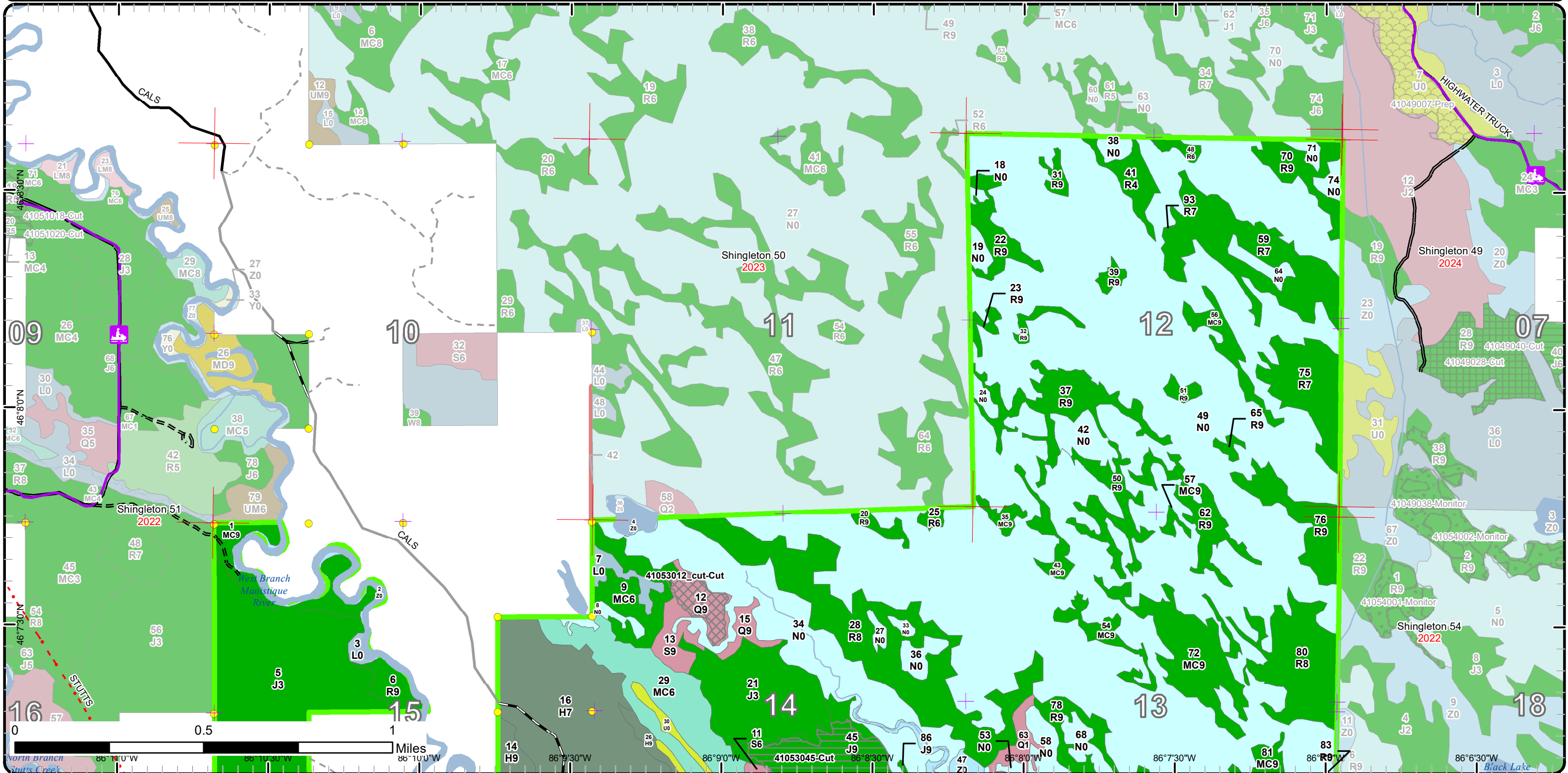
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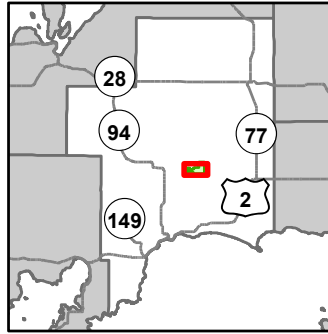


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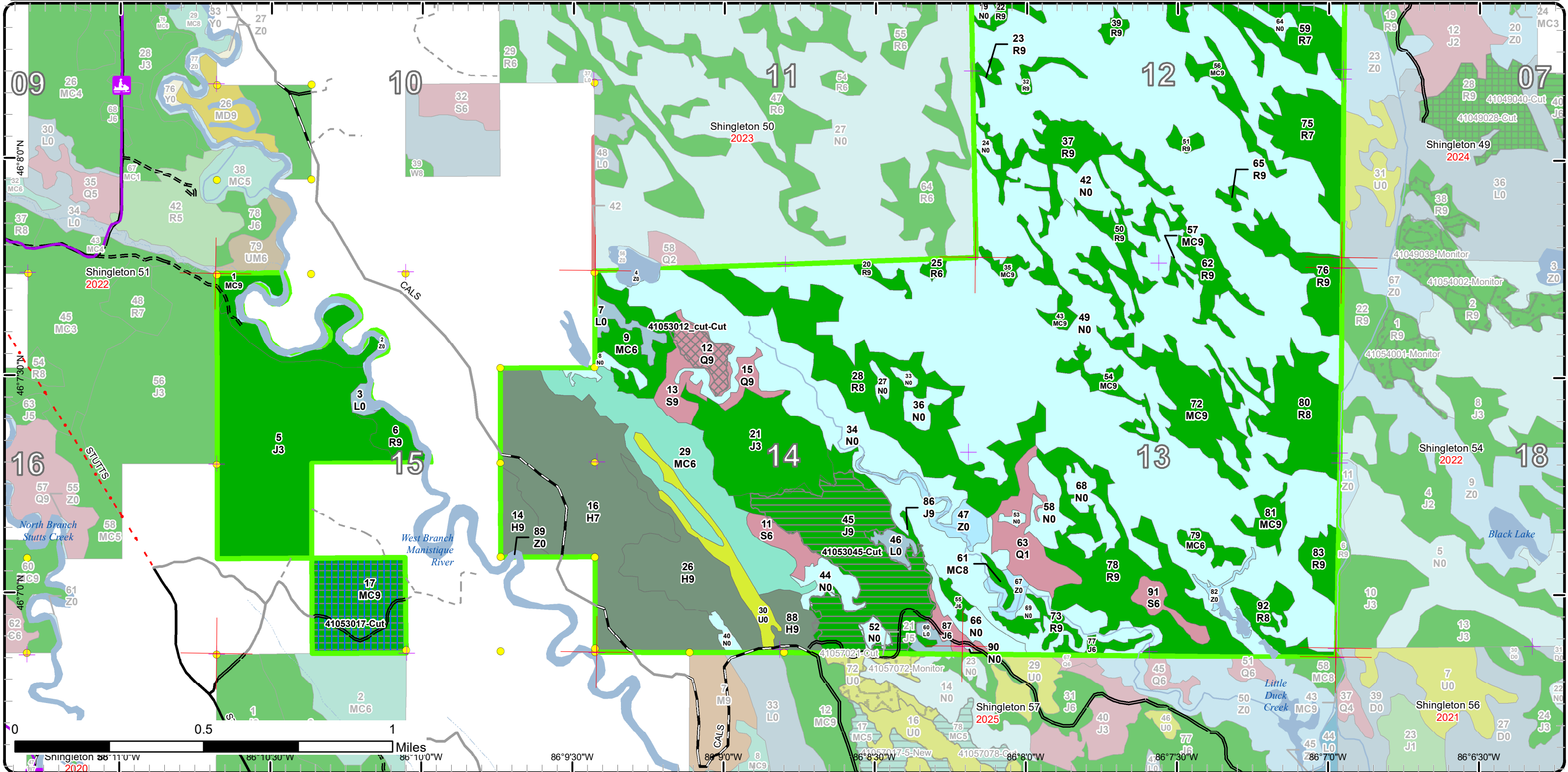


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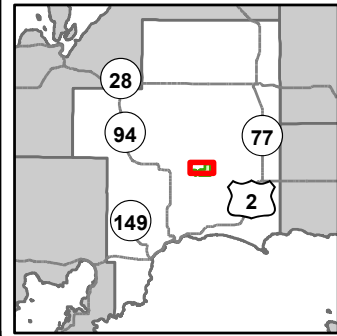


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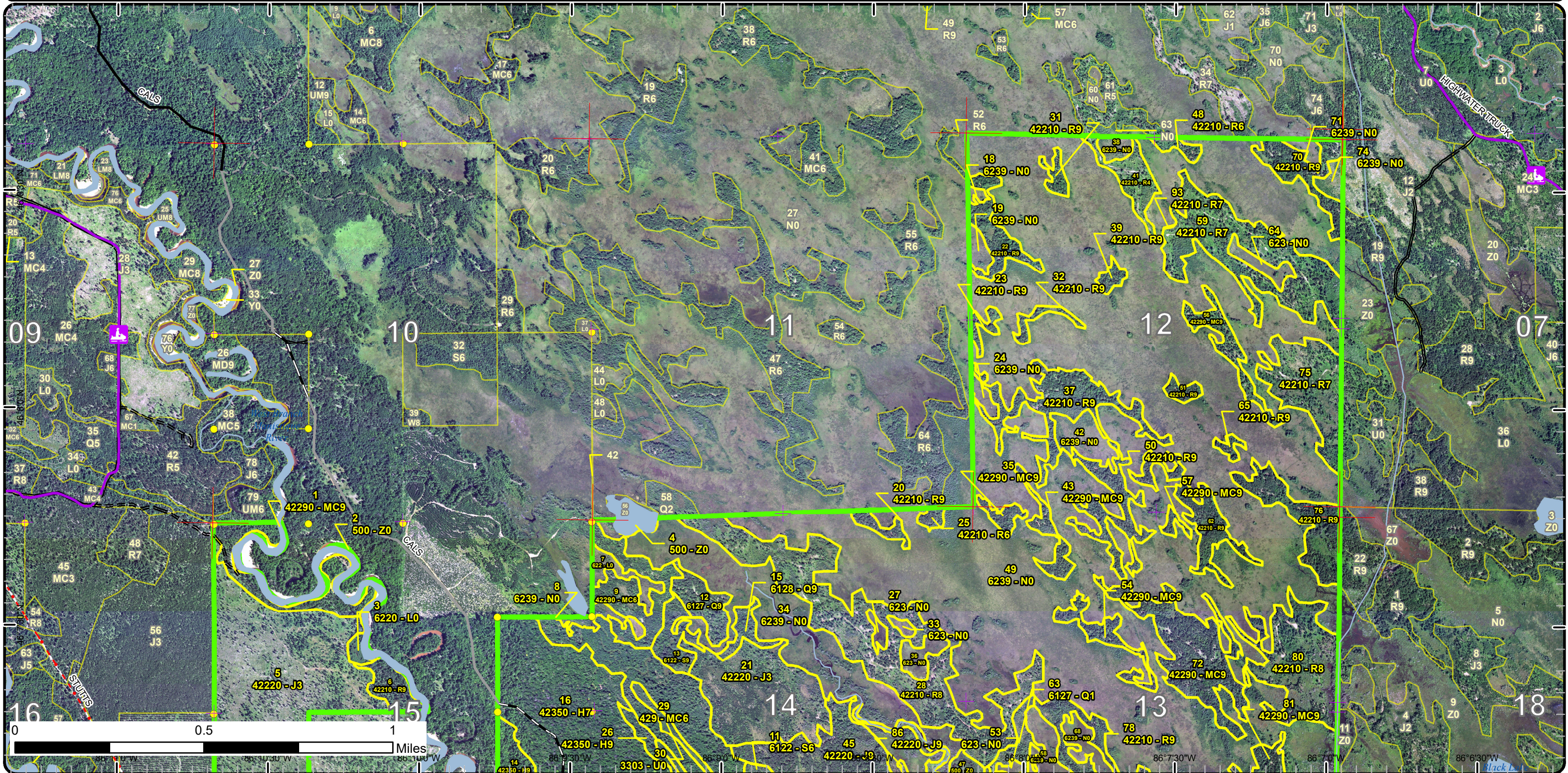


Stand Boundary Map

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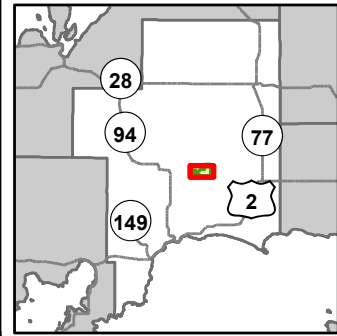


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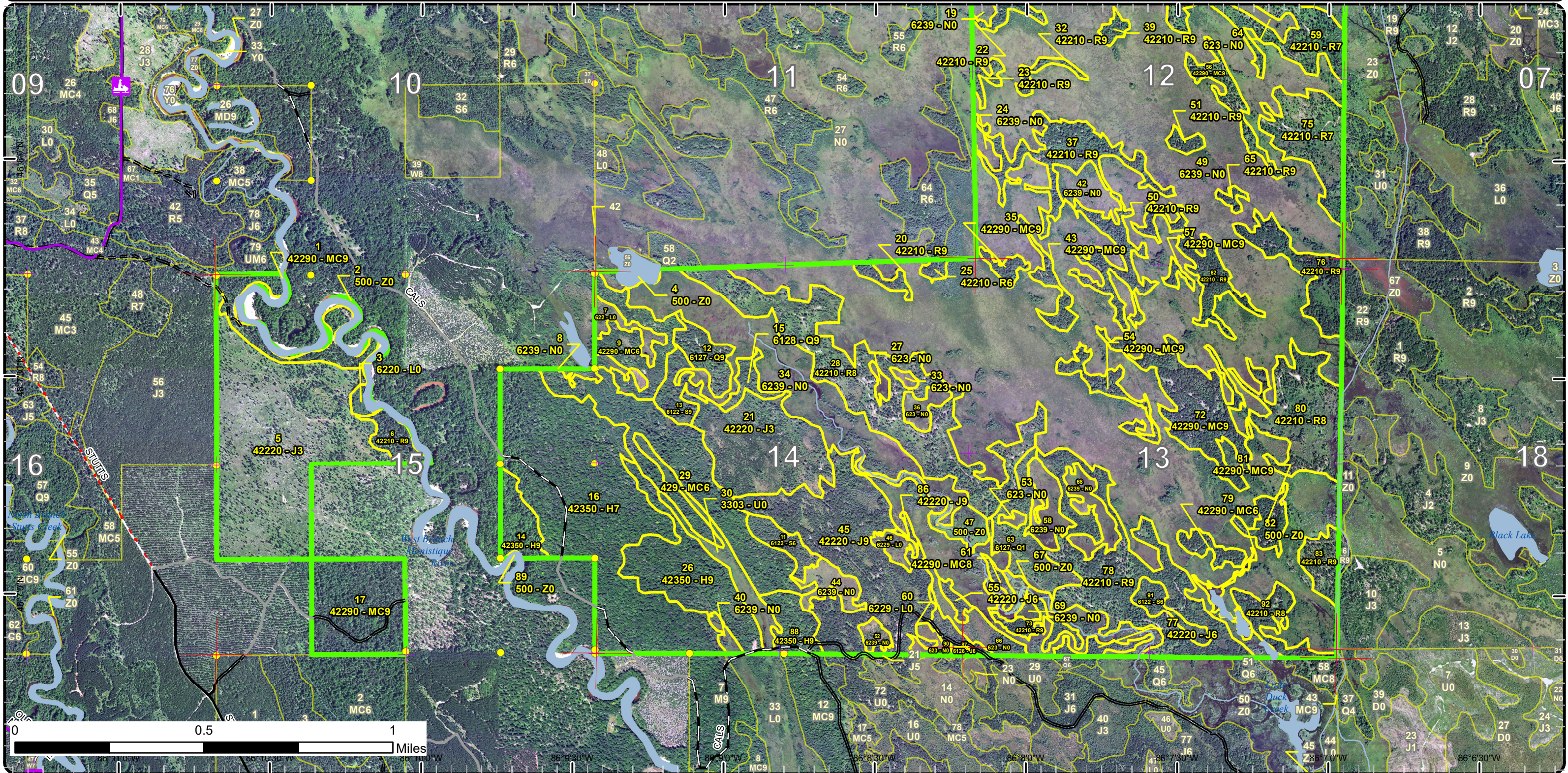


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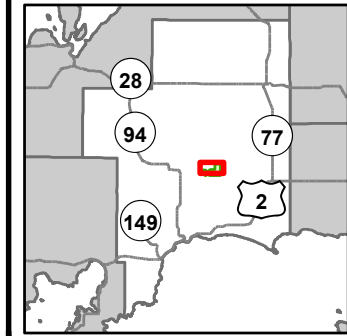


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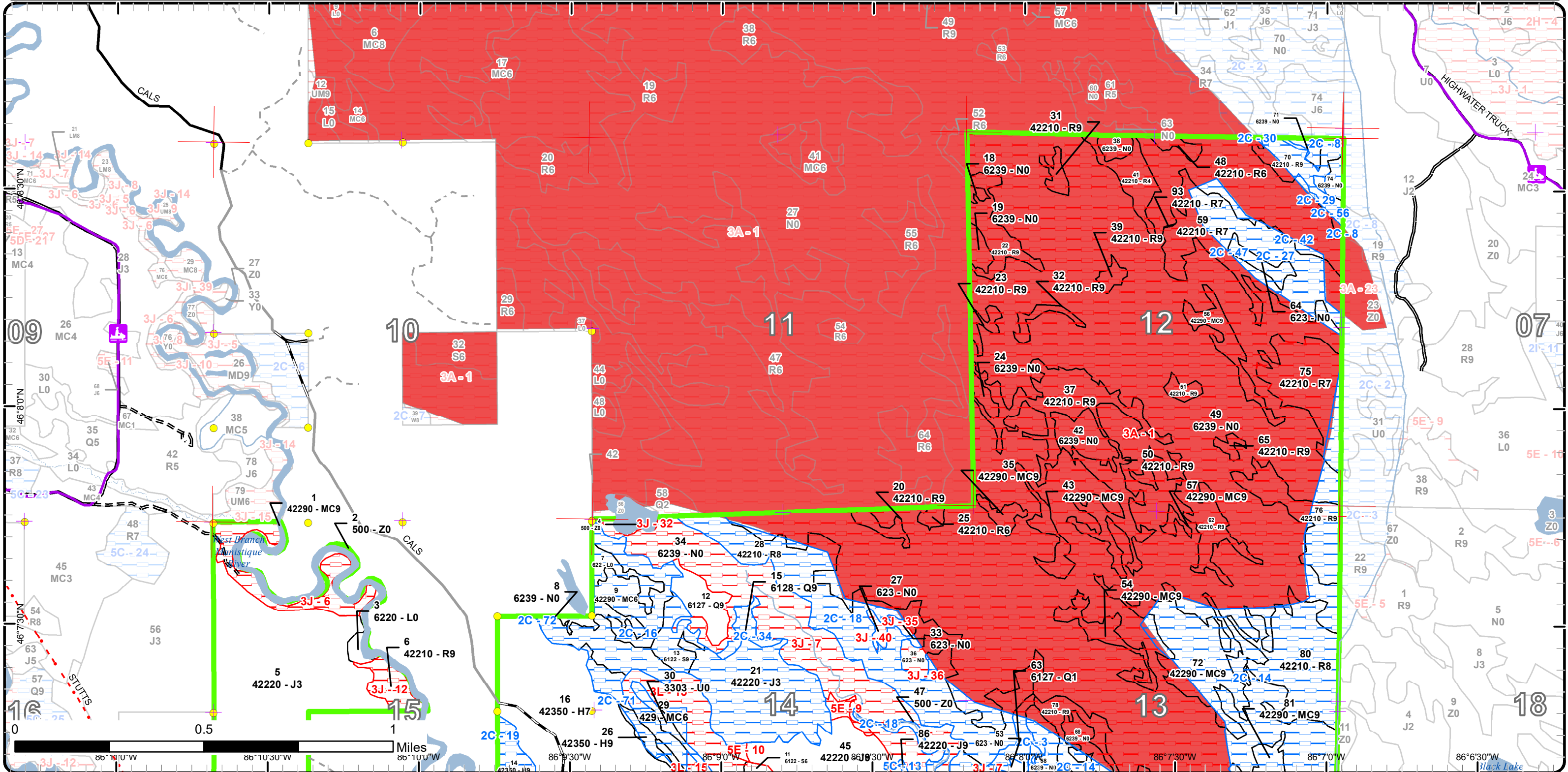


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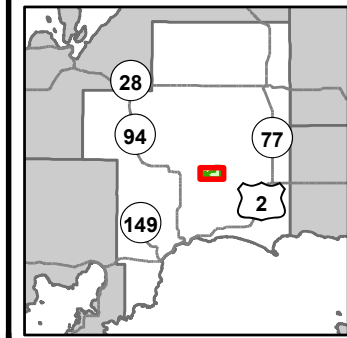


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- Compartment Boundary
- Available w/ Constraints
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas

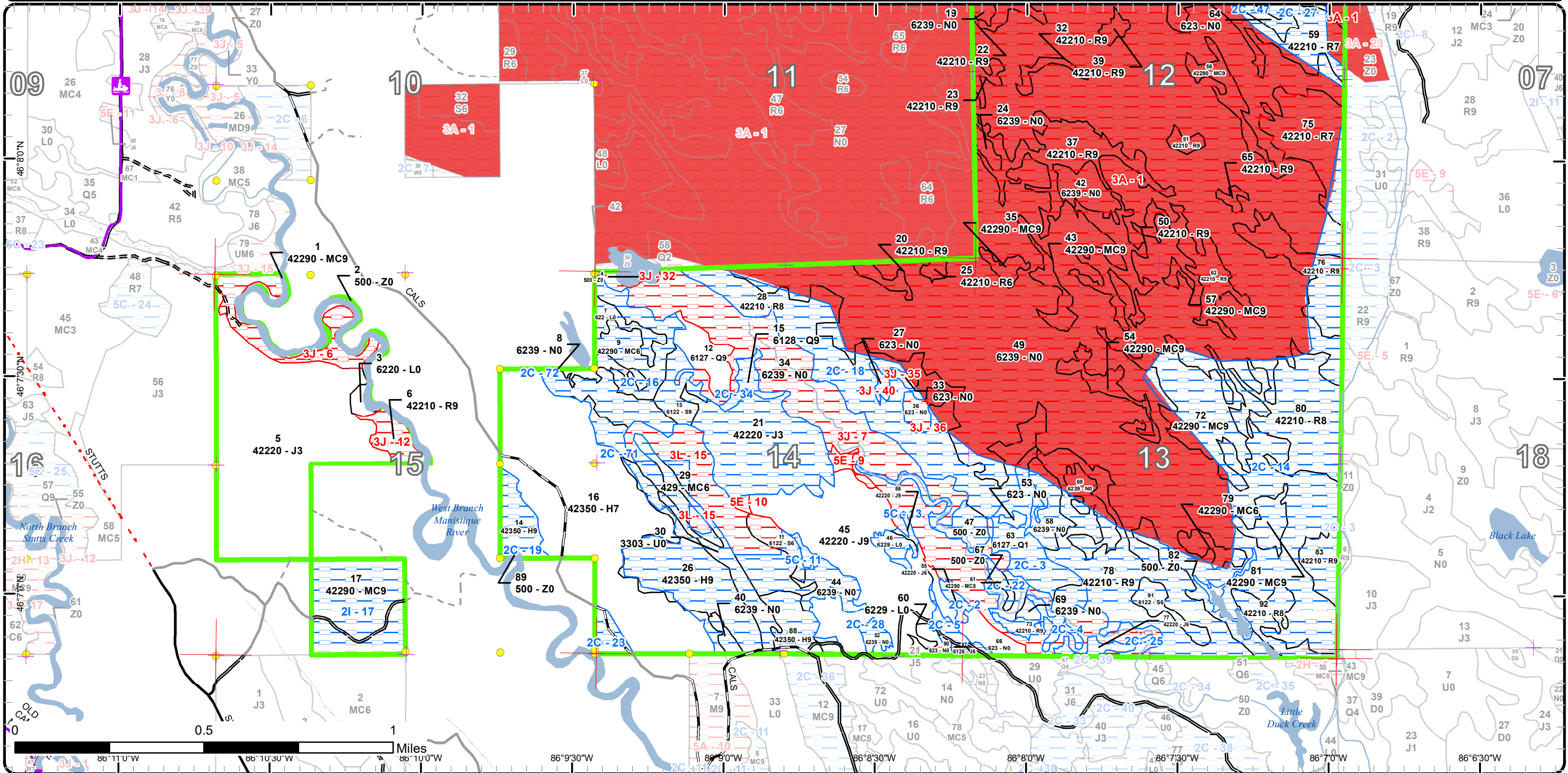


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Report 1 – Total Acres by Cover Type and Age Class



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
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	174	12	0	0	0	0	186
Jack Pine	0	0	115	47	0	0	0	0	4	86	0	0	0	0	0	0	0	0	252
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	20	0	0	0	0	0	0	5	0	10	0	0	0	0	0	0	35
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Spruce/Fir	0	0	0	0	0	0	7	0	8	9	0	0	0	0	0	0	0	0	23
Marsh	1004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1004
Natural Mixed Pines	0	0	0	21	0	6	0	0	62	70	0	0	0	0	0	0	0	0	159
Red Pine	0	0	0	0	0	0	0	47	219	159	0	0	0	0	0	0	0	0	424
Upland Conifers	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Water	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Total	1067	0	135	68	58	6	7	47	293	329	0	10	174	12	0	0	0	0	2204



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 53
Total Compartment Acres: 2,206

Commercial Harvest - 79
Harvests with Site Condition - 40
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversyory Removal	Salvage	Other	Total Acres
Jack Pine	70	0	0	0	0	0	0	0	0	70
Lowland Conifers	0	9	0	0	0	0	0	0	0	9
Natural Mixed Pines	0	0	0	40	0	0	0	0	0	40
Total	70	9	0	40	0	0	0	0	0	119

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	119	0	0	0	0	0	0	0	0	119
Next Step	0	110	70	0	0	0	119	0	0	298
Total	119	110	70	0	0	0	119	0	0	417



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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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Proposed Treatments:

17	41053017-Cut	40.0	42290 - Natural Mixed Pine	Sawtimber Well	85	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Seed tree with retention per work instructions. Leave 10-30 BA white pine and red pine, leave BA on lower end in areas of jack pine. Cut all other merchantable trees but don't cut hemlock or cedar if encountered. Look for patches of retention areas that include a range of species and look for possible vernal ponds or wet areas as possible retention areas- target 5% retention including some xlog white pine and balsam fir.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine, white pine, jack pine, balsam fir, black spruce, white spruce, maple, aspen, birch</p> <p><u>Other Comment:</u> During sale prep prepare a map for areas of the stand that will benefit from scarification.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

Approved Treatments:

12	41053012_cut-Cut	9.0	6127 - Lowland Pine	Sawtimber Well	100	51-80	Harvest	Single Tree Selection	6127 - Lowland Pine	Uneven-Aged	No
<p><u>Prescription</u> Seed tree. Leave 1-2 red pine trees per acre. There are several drainages scattered through the stand. Winter cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A mix of species currently found onsite.</p> <p><u>Other Comment:</u> Old next step comments: Monitor for regeneration success. Acceptable regeneration mix includes species currently represented in the canopy. If natural regeneration fails, plant red pine.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
45	41053045-Cut	69.7	42220 - Natural Jack Pine	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Cut all jack pine and black spruce. Mark red pine and white pine to create room for harvest and scarification operations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory); Planting, Interplant</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> JP</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											

Total Treatment Acreage Proposed: 118.7

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions							
		With Condition	Not Available		2C	2I	5C	3A	3J	3L	5E	
186	115	70	0	Hemlock	70							
252	187	62	4	Jack Pine	60		1					4
15	0	15	0	Low-Density Trees	15							
35	10	24	1	Lowland Conifers	24			1				
16	6	10	0	Lowland Shrub	6		4					
24	0	20	4	Lowland Spruce/Fir	18		2				4	
1004	12	155	836	Marsh	155			714	122			
159	0	98	61	Natural Mixed Pines	58	40		43	18			
425	0	232	192	Red Pine	232			184	8			
58	0	32	26	Upland Conifers	32						26	
32	15	15	2	Water	15				2			
2,206	346	733	1,126	Total Forested Acres	686	40	7	943	151	30		4
	16%	33%	51%	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	943	Unspecified	Unspecified	Unspecified	Unspecified
Comments: poor fen ERA							
2	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

3	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was recently cut as part of the 13 Mile Pine Sale. Sale completion date was on 11/21/2011. Remaining overstory trees are providing a seed source.							
4	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: After the river buffer, the acreage is minimal.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	116	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

8	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: After river buffer, the acreage is minimal.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

14	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	276	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3L: Other wildlife concerns	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hemlock stand on purchased land.							
16	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	203	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2I: Survey needed	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	81	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

19	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

28	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	5	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

35	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 53
Year of Entry: 2025

56	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
71	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
72	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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																																																			
1	42290 - Natural Mixed Pine	Sawtimber Well	18.1	80	51-80	N/A																																																				
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Balsam Fir	Low	Variable	Sapling																																																							
Red Pine	Low	Variable	Sapling																																																							
2	500 - Water	Nonstocked	10.5		Unspecified	No	West Branch Manistique River.																																																			
3	6220 - Alder/willow	Nonstocked	2.2		Unspecified	No																																																				
4	500 - Water	Nonstocked	2.5		Unspecified	No	Tucker Lake																																																			
5	42220 - Natural Jack Pine	Sapling Well	115.2	15	Immature	N/A	Scattered residual mature red pine and a few mature white pine.																																																			
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6	42210 - Natural Red Pine	Sawtimber Well	8.0	75	51-80	N/A																																																				
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White Pine	Medium	Variable	Sapling																																																							
Red Maple	Low	Variable	Sapling																																																							
7	622 - Lowland Shrub	Nonstocked	5.9		Unspecified	No																																																				
8	6239 - Mixed Emergent Wetland	Nonstocked	4.3		Unspecified	No																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	42290 - Natural Mixed Pine	Poletimber Well	21.4	25	1-50	N/A	Stand was cut around 1988 and was never scarified.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	28	Sapling	3		Black Spruce	Low	10 - 20 feet	Sapling
White Pine	30	Pole/Sapling	5	25	White Pine	Medium	>20 feet	Sapling
Red Pine	12	Pole/Sapling	5		Jack Pine	Medium	>20 feet	Sapling
Balsam Fir	2	Sapling/Pole	3		Quaking Aspen	Medium	>20 feet	Sapling
Jack Pine	28	Pole/Sapling	5	25				

11	6122 - Black Spruce	Poletimber Well	7.8	70	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	8		Black Spruce	Medium	>20 feet	Sapling
White Pine	5	Log/Pole	11		Hemlock	Low	5 - 10 feet	Sapling
Red Pine	2	Log	14					
Black Spruce	87	Pole/Sapling	7	70				
Jack Pine	3	Pole	8					

12	6127 - Lowland Pine	Sawtimber Well	10.4	100	51-80	N/A	Stand is currently under contract- Never Ending Adventure.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	8		Black Spruce	Medium	Variable	Sapling
White Pine	10	Log/Pole/XLog	12		White Pine	Low	Variable	Sapling
Red Pine	75	Log/Pole/XLog	12	100	Tag Alder	Low	< 5 feet	Tall Shrub
Paper Birch	5	Pole	6		Leatherwood	Low	< 5 feet	Tall Shrub
					Paper Birch	Low	Variable	Sapling
					Jack Pine	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling

13	6122 - Black Spruce	Sawtimber Well	9.3	85	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	70	Pole	8	85	Black Spruce	Medium	Variable	Sapling
Tamarack	4	Pole	5		Red Maple	Low	Variable	Sapling
White Pine	10	Log/XLog	14		Tag Alder	Medium	Variable	Tall Shrub
Jack Pine	3	Pole	6					
Red Pine	10	Log	12					
Paper Birch	3	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
14	42350 - Upland Hemlock	Sawtimber Well	11.7	128	111-140	N/A																																																															
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15	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.9	85	81-110	N/A																																																															
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16	42350 - Upland Hemlock	Sawtimber Poor	124.8	115	1-50	N/A	This stand was cut as part of Horror Story Hardwoods Sale #41-020-13-01. TCR Date 6/23/2018.																																																														
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17	42290 - Natural Mixed Pine	Sawtimber Well	40.0	85	81-110	N/A	Red pine grows well on this site. The highest concentration of red pine is in the northeastern 13 acres.																																																														
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18	6239 - Mixed Emergent Wetland	Nonstocked	1.1		Unspecified	No																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 42210 - Natural Red Pine Sawtimber Well 3.5 77 81-110 N/A

21 42220 - Natural Jack Pine Sapling Well 47.2 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Sapling	4	
Black Spruce	1	Sapling	4	
Red Pine	2	Sapling	4	
Jack Pine	95	Sapling	4	24

22 42210 - Natural Red Pine Sawtimber Well 12.0 76 111-140 N/A

23 42210 - Natural Red Pine Sawtimber Well 3.0 76 111-140 N/A

24 6239 - Mixed Emergent Wetland Nonstocked 2.6 Unspecified No

25 42210 - Natural Red Pine Poletimber Well 2.0 77 81-110 N/A

26 42350 - Upland Hemlock Sawtimber Well 38.1 111 111-140 N/A

Stand was thinned in 1988. There's advanced red maple regeneration with the greatest concentration being in the southern half of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	Log/Pole	12		Hemlock	Low	Variable	Sapling
Yellow Birch	2	Pole/Log	9		Beech	Low	Variable	Sapling
White Pine	10	XLog/Log/Pole	18		White Pine	Low	>20 feet	Sapling
Red Maple	12	Log/Pole	12		Red Maple	Medium	>20 feet	Sapling
Hemlock	75	Log/XLog/Pole	16	111				

27 623 - Emergent Wetland Nonstocked 1.8 Unspecified No

28 42210 - Natural Red Pine Sawtimber Medium 78.7 84 51-80 N/A

The stand was cut as part as of 13 Mile Pine Sale #26-05. Sale was complete on 11/21/2011.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	75	Log/Pole	14	84	Jack Pine	Low	Variable	Sapling
Jack Pine	2	Pole	8		Red Pine	Low	5 - 10 feet	Sapling
Black Spruce	3	Pole	8		White Pine	Low	5 - 10 feet	Sapling
White Pine	20	Log/Pole	14		Black Spruce	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
29	429 - Mixed Upland Conifers	Poletimber Well	58.4	35	81-110	N/A	The stand was thinned in 1988.																																									
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30	3303 - Mixed Low Density Trees	Nonstocked	15.1		Unspecified	No																																										
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32	42210 - Natural Red Pine	Sawtimber Well	3.1	77	111-140	N/A																																										
33	623 - Emergent Wetland	Nonstocked	1.3		Unspecified	No																																										
34	6239 - Mixed Emergent Wetland	Nonstocked	115.6		Unspecified	No	Small creek running through the stand.																																									
35	42290 - Natural Mixed Pine	Sawtimber Well	3.5	76	81-110	N/A																																										
36	623 - Emergent Wetland	Nonstocked	5.2		Unspecified	No																																										
37	42210 - Natural Red Pine	Sawtimber Well	25.9	77	81-110	N/A																																										
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39	42210 - Natural Red Pine	Sawtimber Well	2.5	76	81-110	N/A																																														
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40	6239 - Mixed Emergent Wetland	Nonstocked	2.5		Unspecified	No																																														
41	42210 - Natural Red Pine	Poletimber Poor	10.1	68	1-50	N/A																																														
42	6239 - Mixed Emergent Wetland	Nonstocked	9.6		Unspecified	No																																														
43	42290 - Natural Mixed Pine	Sawtimber Well	6.5	76	81-110	N/A																																														
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44	6239 - Mixed Emergent Wetland	Nonstocked	8.3		Unspecified	No																																														
45	42220 - Natural Jack Pine	Sawtimber Well	77.0	82	81-110	N/A	7/17/23 Stand is currently under contract- Never Ending Adventure.																																													
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46	6229 - Mixed lowland shrub	Nonstocked	4.1		Unspecified	No																																														
47	500 - Water	Nonstocked	9.9		Unspecified	No																																														
48	42210 - Natural Red Pine	Poletimber Well	2.8	68	51-80	N/A																																														



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Red Pine	55	Log/Pole	12	76																																																
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55	42220 - Natural Jack Pine	Poletimber Well	2.5	82	81-110	N/A																																														
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Jack Pine	95	Pole	8	82																																																
56	42290 - Natural Mixed Pine	Sawtimber Well	10.0	89	81-110	N/A	Stand was part of the Frozen Paint Sale #34-05. Sale was closed on 4/2/2010.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
57	42290 - Natural Mixed Pine	Sawtimber Well	1.6	76	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		40	Log/Pole	12		Tag Alder	Low	Variable	Tall Shrub
Black Spruce		10	Pole	8		Black Spruce	Low	Variable	Sapling
Jack Pine		50	Pole/Log	9	76	White Pine	Low	Variable	Sapling
58	6239 - Mixed Emergent Wetland	Nonstocked	10.1		Unspecified	No			
59	42210 - Natural Red Pine	Sawtimber Poor	46.9	80	1-50	N/A	Stand was cut as part of the Frozen Paint Sale #34-05. There is adequate residual basal area that occurs in clumps where the red pine is at. Sale was closed as of 4/26/2010. There's full regeneration.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		80	Log/Pole	14	80	White Pine	Medium	5 - 10 feet	Sapling
White Pine		20	Log/Pole	16		Red Maple	Trace	10 - 20 feet	Sapling
						Beech	Trace	< 5 feet	Sapling
						Paper Birch	Low	10 - 20 feet	Sapling
						Black Cherry	Trace	5 - 10 feet	Sapling
						Quaking Aspen	High	10 - 20 feet	Sapling
						Jack Pine	Medium	10 - 20 feet	Sapling
60	6229 - Mixed lowland shrub	Nonstocked	3.3		Unspecified	No			
						Sub-Canopy Species	Density	Avg. Height	Size
						Jack Pine	Low		Sapling
61	42290 - Natural Mixed Pine	Sawtimber Medium	2.3	89	51-80	N/A			
62	42210 - Natural Red Pine	Sawtimber Well	15.6	76	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		1	Pole	9		Black Spruce	Low	Variable	Sapling
Jack Pine		16	Pole/Log	9		Tag Alder	Low	Variable	Tall Shrub
Red Pine		80	Log/Pole	12	76	Jack Pine	Low	Variable	Sapling
Black Spruce		3	Pole	7		Red Pine	Low	Variable	Sapling
63	6127 - Lowland Pine	Sapling Poor	20.2	10	Immature	N/A	3/16/23 This stand was treated in 2011. The stand has flooded since then with a few scattered red pine remaining. Saplings have developed but the stand is wet at this point. This stand was thinned in 1978. Stand was part of the 13 Mile Pine Sale #26-05. Sale was complete on 11/21/2011.		
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		50	Sapling/Pole	2	10				
Black Spruce		35	Sapling	1					
Jack Pine		10	Sapling	2					
Red Pine		5	Log/Pole	14	114				
64	623 - Emergent Wetland	Nonstocked	4.4		Unspecified	No			



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65	42210 - Natural Red Pine	Sawtimber Well	1.8	76	81-110	N/A																																																															
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66	623 - Emergent Wetland	Nonstocked	9.5		Unspecified	No																																																															
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68	6239 - Mixed Emergent Wetland	Nonstocked	9.7		Unspecified	No																																																															
69	6239 - Mixed Emergent Wetland	Nonstocked	1.5		Unspecified	No																																																															
70	42210 - Natural Red Pine	Sawtimber Well	14.1	67	81-110	N/A	Stand was on proposal with sale Marsh Riders. Contract expired and stand was never harvested.																																																														
71	6239 - Mixed Emergent Wetland	Nonstocked	2.6		Unspecified	No																																																															
72	42290 - Natural Mixed Pine	Sawtimber Well	33.7	77	Unspecified	N/A																																																															
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73	42210 - Natural Red Pine	Sawtimber Well	6.2	89	81-110	N/A																																																															
74	6239 - Mixed Emergent Wetland	Nonstocked	3.5		Unspecified	No																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
75	42210 - Natural Red Pine	Sawtimber Poor	27.3	80	1-50	N/A	Good regeneration.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		70	Log/Pole	13	80	White Pine	Medium	5 - 10 feet	Sapling
White Pine		30	Log	16	30	Paper Birch	Trace	10 - 20 feet	Sapling
						Red Pine	Trace	5 - 10 feet	Sapling
						Quaking Aspen	High	10 - 20 feet	Sapling
						Jack Pine	High	10 - 20 feet	Sapling
						Red Maple	Trace	10 - 20 feet	Sapling
76	42210 - Natural Red Pine	Sawtimber Well	19.6	63	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	Log/Pole	11	63	Black Spruce	Low	Variable	Sapling
Jack Pine		10	Log/Pole	10		Red Pine	Low	Variable	Sapling
77	42220 - Natural Jack Pine	Poletimber Well	4.0	77	Unspecified	N/A			
78	42210 - Natural Red Pine	Sawtimber Well	62.8	72	51-80	N/A	Parts of this stand were cut with 13 Mile Red Pine Sale #41-026-05-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		10	Log/Pole	14		Black Spruce	Low	Variable	Sapling
Jack Pine		10	Pole	7		Red Pine	Low	Variable	Sapling
Red Pine		75	Log/Pole	12	72	White Pine	Low	Variable	Sapling
Black Spruce		5	Pole	6					
79	42290 - Natural Mixed Pine	Poletimber Well	5.5	45	81-110	N/A	Parts of the stand was cut as part of the 13 Mile Pine Sale #41-026-05-01. Sale was complete on 11/21/2011.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		18	Pole/Log	9		Black Spruce	Low	Variable	Sapling
Jack Pine		40	Pole	7	45	Red Pine	Low	>20 feet	Sapling
Black Spruce		5	Pole/Sapling	5		Tag Alder	Low	Variable	Tall Shrub
Paper Birch		2	Pole/Sapling	5					
Red Pine		35	Pole/Log	8					
80	42210 - Natural Red Pine	Sawtimber Medium	36.9	76	51-80	N/A	Stand was cut as part of 13 Mile Pine Sale #26-05. Sale was complete in 2011.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		10	Pole	8		Black Spruce	Low	Variable	Sapling
Red Pine		86	Log	14	76	Jack Pine	Low	Variable	Sapling
White Pine		3	Log/Pole	12		Quaking Aspen	Low	5 - 10 feet	Sapling
Quaking Aspen		1	Pole	8		Red Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
81	42290 - Natural Mixed Pine	Sawtimber Well	7.7	76	81-110	N/A																																				
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82	500 - Water	Nonstocked	3.9		Unspecified	No																																				
83	42210 - Natural Red Pine	Sawtimber Well	9.3	75	81-110	N/A	Stand was cut as part of the 13 Mile Pine Sale #41-026-05-01. Sale was complete on 11/21/2011.																																			
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86	42220 - Natural Jack Pine	Sawtimber Well	1.1	82	81-110	N/A	Narrow jack pine island that was an exclusion to the current timber sale.																																			
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87	6126 - Lowland Jack Pine	Poletimber Well	5.2	82	81-110	N/A	The majority of this stand is lowland jack pine.																																			
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88	42350 - Upland Hemlock	Sawtimber Well	11.2	111	81-110	N/A	The stand was thinned in 1988.																																			
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Hemlock	Medium	Variable	Sapling																																							
Balsam Fir	Medium	>20 feet	Sapling																																							
White Pine	Medium	>20 feet	Sapling																																							
89	500 - Water	Nonstocked	0.4	0	Unspecified	No																																				
90	623 - Emergent Wetland	Nonstocked	0.2	0	Unspecified	No																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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91	6122 - Black Spruce	Poletimber Well	6.5	50	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		5	Pole	6		Black Spruce	
Northern White Cedar		1	Pole	9		Density	
White Pine		5	Log/Pole	14		Avg. Height	
Red Pine		2	Log	14		Size	
Black Spruce		87	Pole/Sapling	5	50	>20 feet	
						Sapling	

92	42210 - Natural Red Pine	Sawtimber Medium	11.1	72	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		20	Pole	8		Red Pine	
White Pine		10	Log	14		Density	
Red Pine		60	Log/Pole	11	72	Avg. Height	
Black Spruce		10	Pole	6		Size	
						Variable	
						Sapling	
						Sapling	
						Sapling	

93	42210 - Natural Red Pine	Sawtimber Poor	0.1	80	1-50	N/A	Stand was cut as part of the Frozen Paint Sale #34-05. There is adequate residual basal area that occurs in clumps where the red pine is at. Sale was closed as of 4/26/2010. There's full regeneration.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		20	Log/Pole	16		Paper Birch	
Red Pine		80	Log/Pole	14	80	Density	
						Avg. Height	
						Size	
						10 - 20 feet	
						Sapling	
						Sapling	
						Sapling	
						Sapling	
						Sapling	
						Sapling	
						Sapling	