



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41041

Entry Year 2026

Acreage: 1,884

County Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Adam Petrelius

Legal Description:

T43N R16W Sections 22, 23, 26, 27, and 34

Identified Planning Goals:

The main objective in this area are timber harvesting, wildlife management, protecting unique areas, endangered and special concern species, and providing opportunities for forest recreation.

Soil and topography:

The topography in this compartment is slightly rolling to flat and is dominated by aspen and maple cover types. Most of the soil types found within the compartment are Carbondale, Rubicon-Roselawn Sands, and Blue Lake Sands.

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

Private land surrounds this compartment on all four sides. Parcels adjacent to compartment boundaries have both permanent residences and camps present. The former Manistique Township Landfill lies within the compartment and was capped in 2002.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Parts of the compartment are in a deer wintering area.

Watershed and Fisheries Considerations:

NLMMU – John Bauman: This compartment contains Bootjack Lake, Jack Lake, and Sturgeon Hole Creek. Sturgeon Hole Creek is a designated Type 1 trout stream less than 50-ft wide with a predicted mean July water temperature of 63.0°F (cold stream). A 300-foot buffer is recommended for Sturgeon Hole Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices. 100-foot, plus 5 feet per 1% increase in slope, buffers are recommended for Bootjack Lake and Jack Lake to protect shoreland resources in accordance with Best Management Practices. Interdivisional collaboration should be considered where nearshore littoral habitat improvement opportunities exist.

Wildlife Habitat Considerations:

Wildlife featured species: Woodcock, ruffed grouse, sharp-tailed grouse and deer.

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 potential for occurrences of commercial deposits of metallic or critical minerals in this area. Multiple active and former sand/gravel pits occur in the area including an active operation just outside the compartment to the northeast. Potential exists for additional sand & gravel development within the compartment on the uplands in the northeast. At this time, no known potential exists for occurrences of other valuable minerals within the compartment, and no current leasing activity exists in the area involving State-owned mineral rights. 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:

Vehicle access is fair within the compartment. Access to the northwest 320 acres and southwest 240 acres is blocked to vehicles by private gates. The eastern boundary of the compartment is State Highway M-94. Dodge Lake Road leads to the access site and permanent residences along the northern boundary. Hiawatha Station Road is a gravel county road which is also snowplowed during the winter months. Most of the woods roads within the compartment are firm and solid,

but have grown in.

Survey Needs:

Recreational Facilities and Opportunities:

The Haywire Grade is a snowmobile trail and ORV route which travels through portions of the compartment. Dodge Lake Boat access site is also present.

Fire Protection:

Compartment ranges from easy to difficult access with both uplands and lowlands present. Moderate land use activity occurs in the NE portions of the compartment and contains various residences and camps.

Additional Compartment Information:

The following reports from the Inventory are attached:

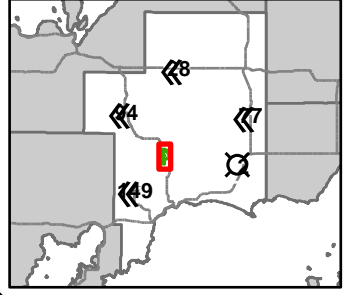
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

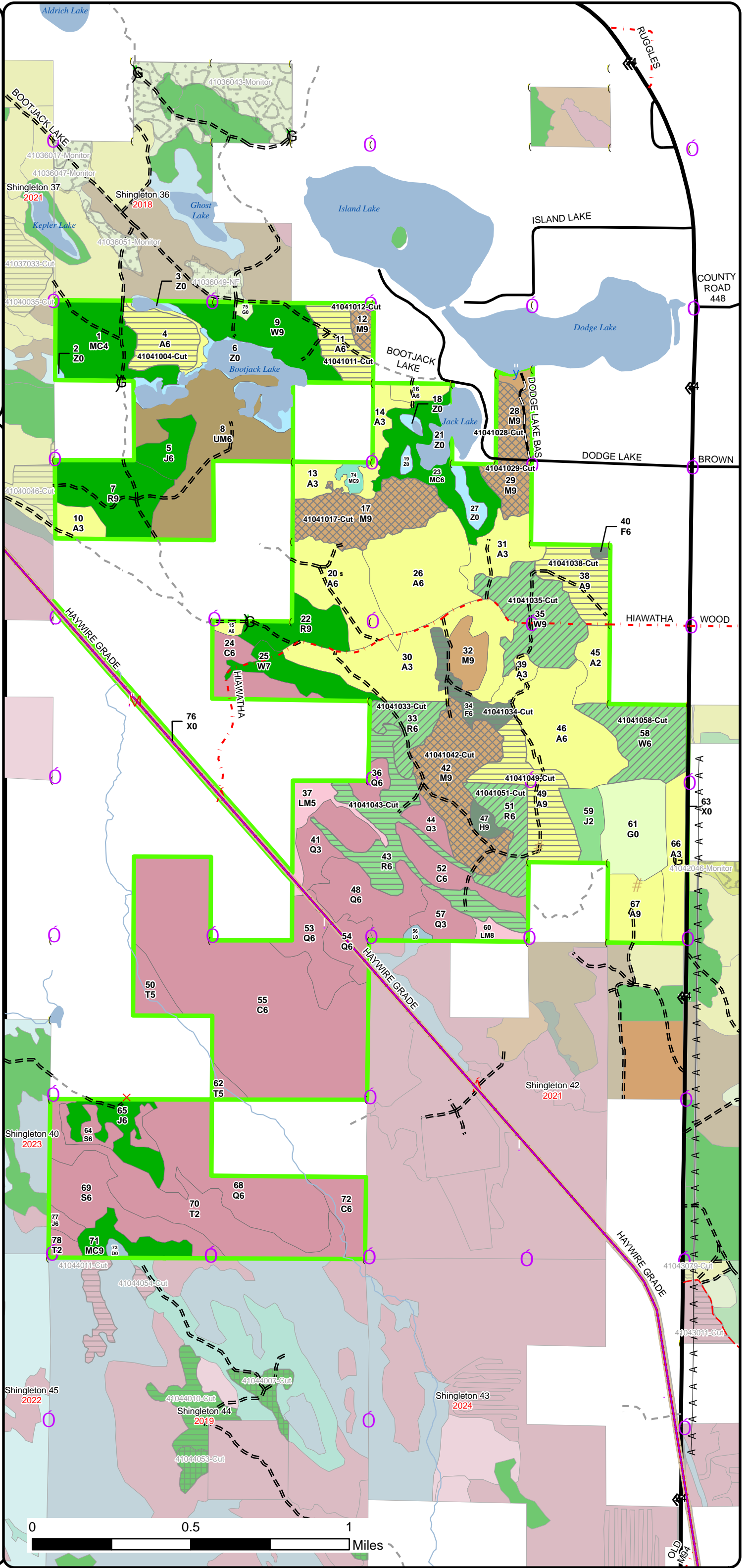
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 41041
 T43N, R16W, Sec. 22, 23, 26, 27, 34
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2026
 Acres: 1884 GIS Calculated
 Examiner: Adam Petrelius
 Map Revised: 08/05/2024
 Map Phase: Web Post

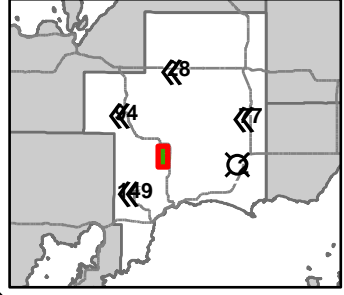


- # Berms
- G Gate
- y Boating Access Site
- A Sign
- x Cabin
- (Survey Grade Corners
- o Remonumented Section Corners
- M ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated RailTrail
- == DNR - Primary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
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- - - Private - Dirt / Gravel Road
- Island in Lake or River
- Lake/Pond
- Perennial River
- A-A Powerline
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

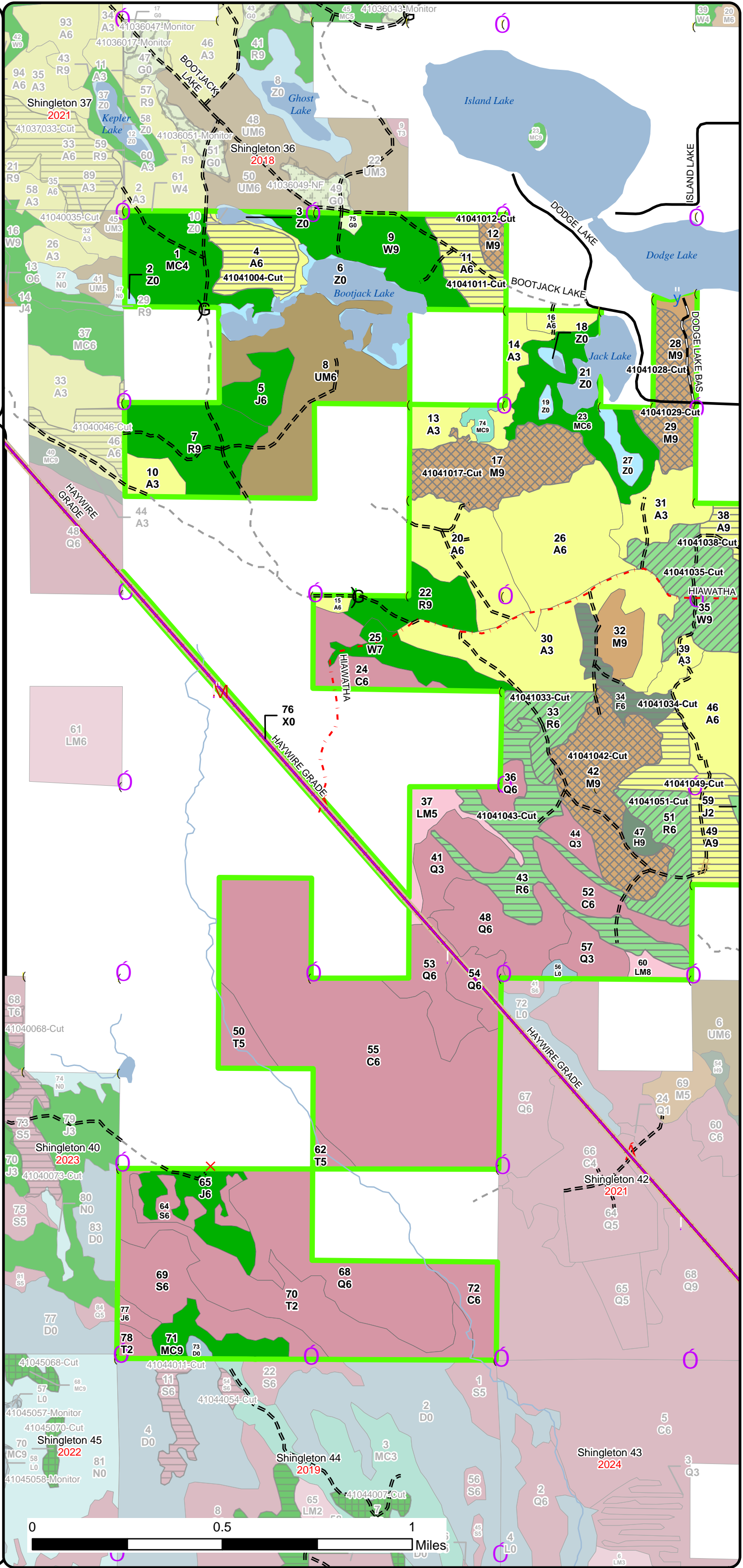


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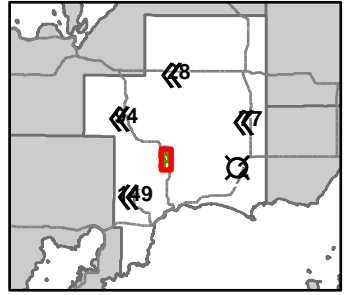


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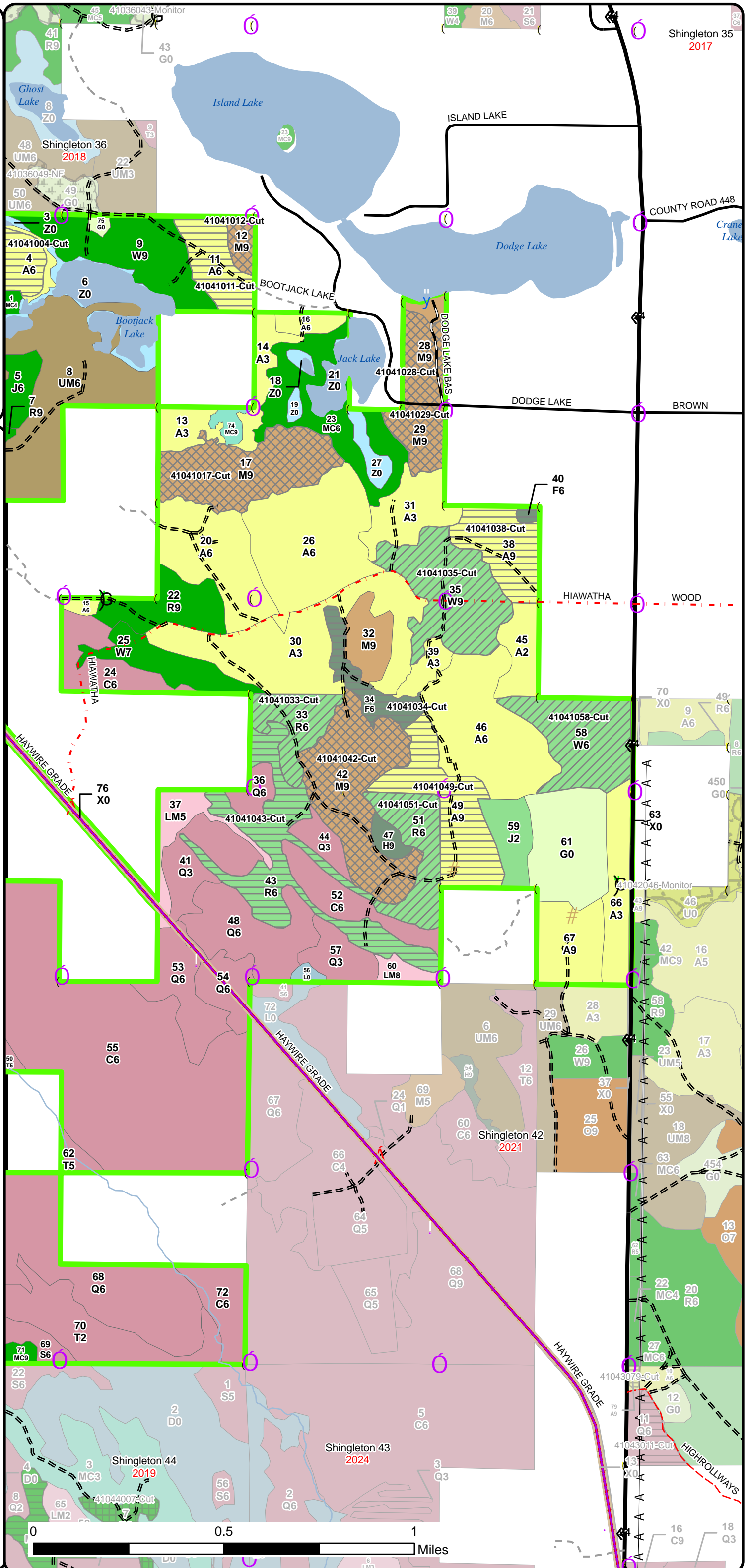


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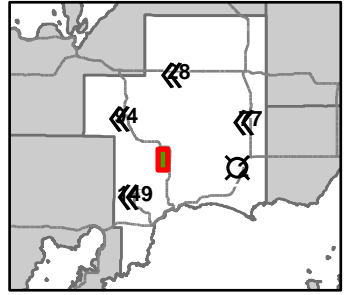


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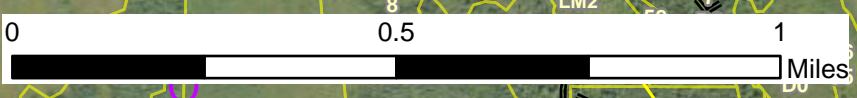
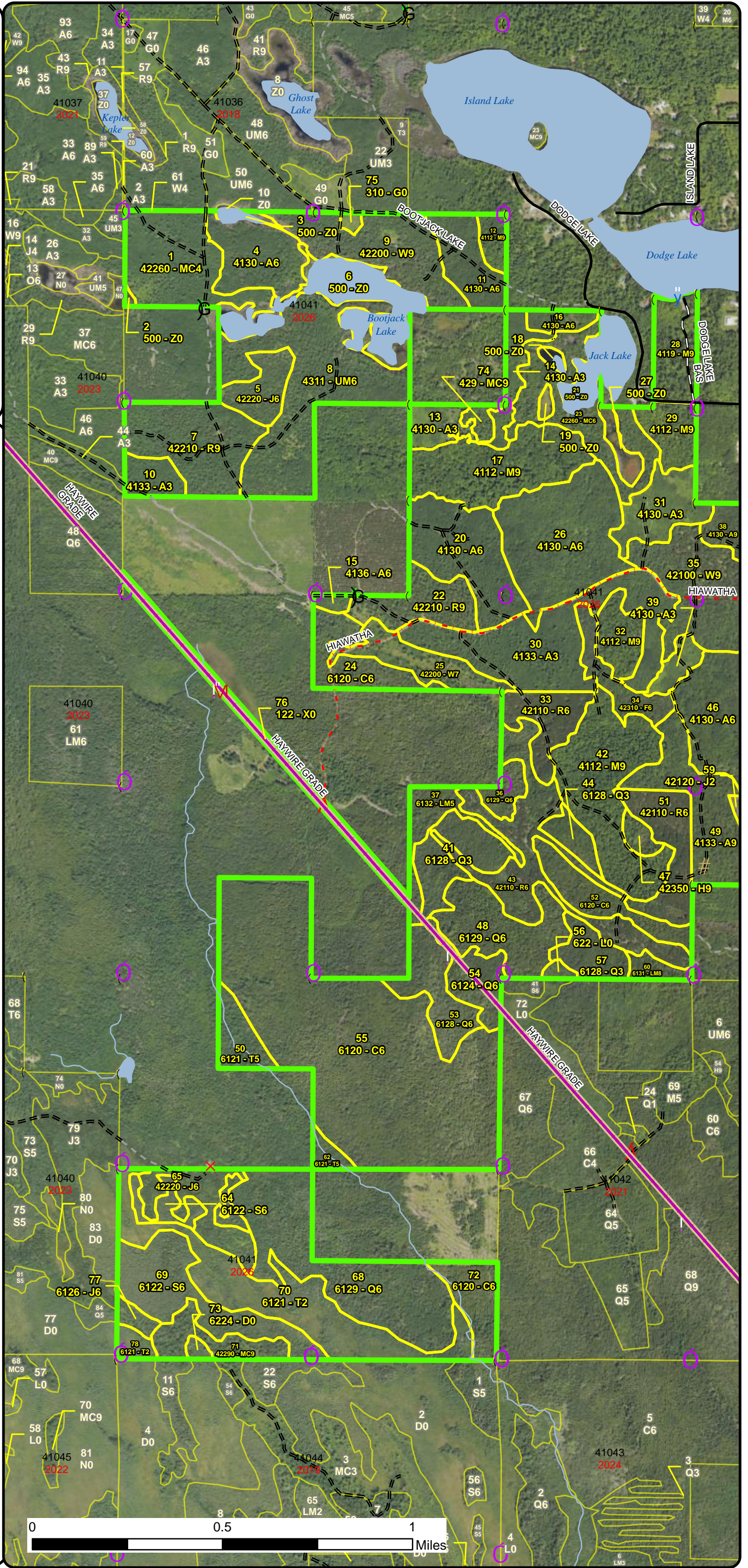


Stand Boundary Map

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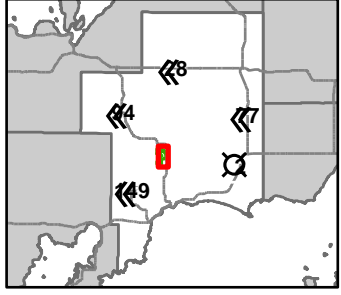


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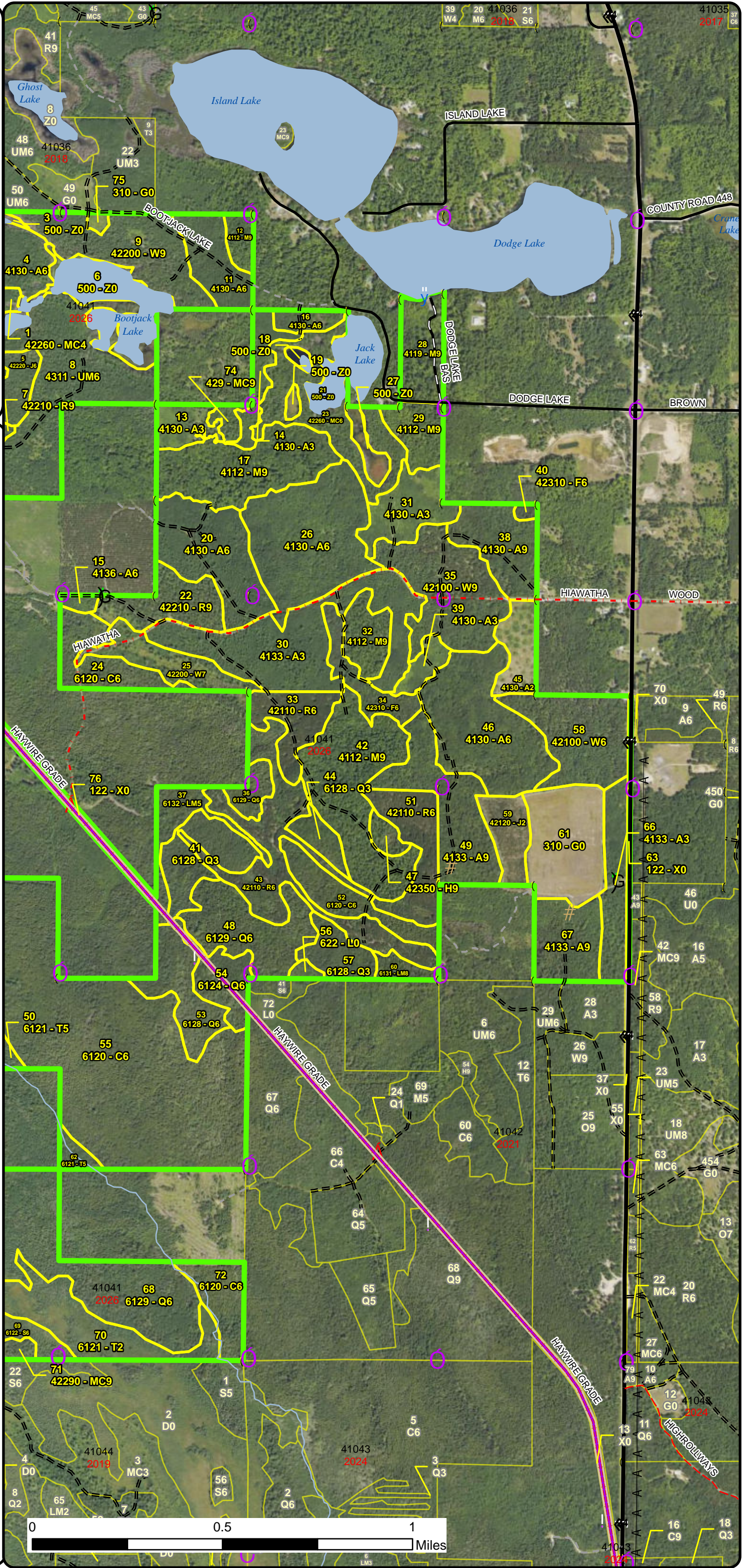


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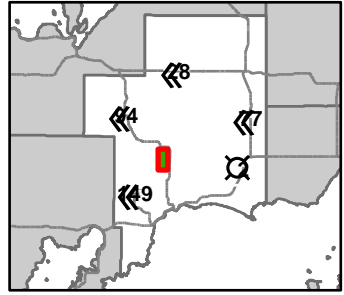


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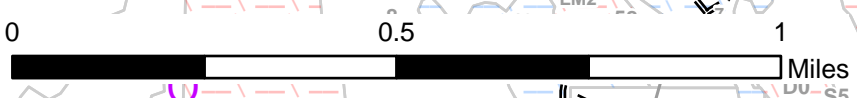
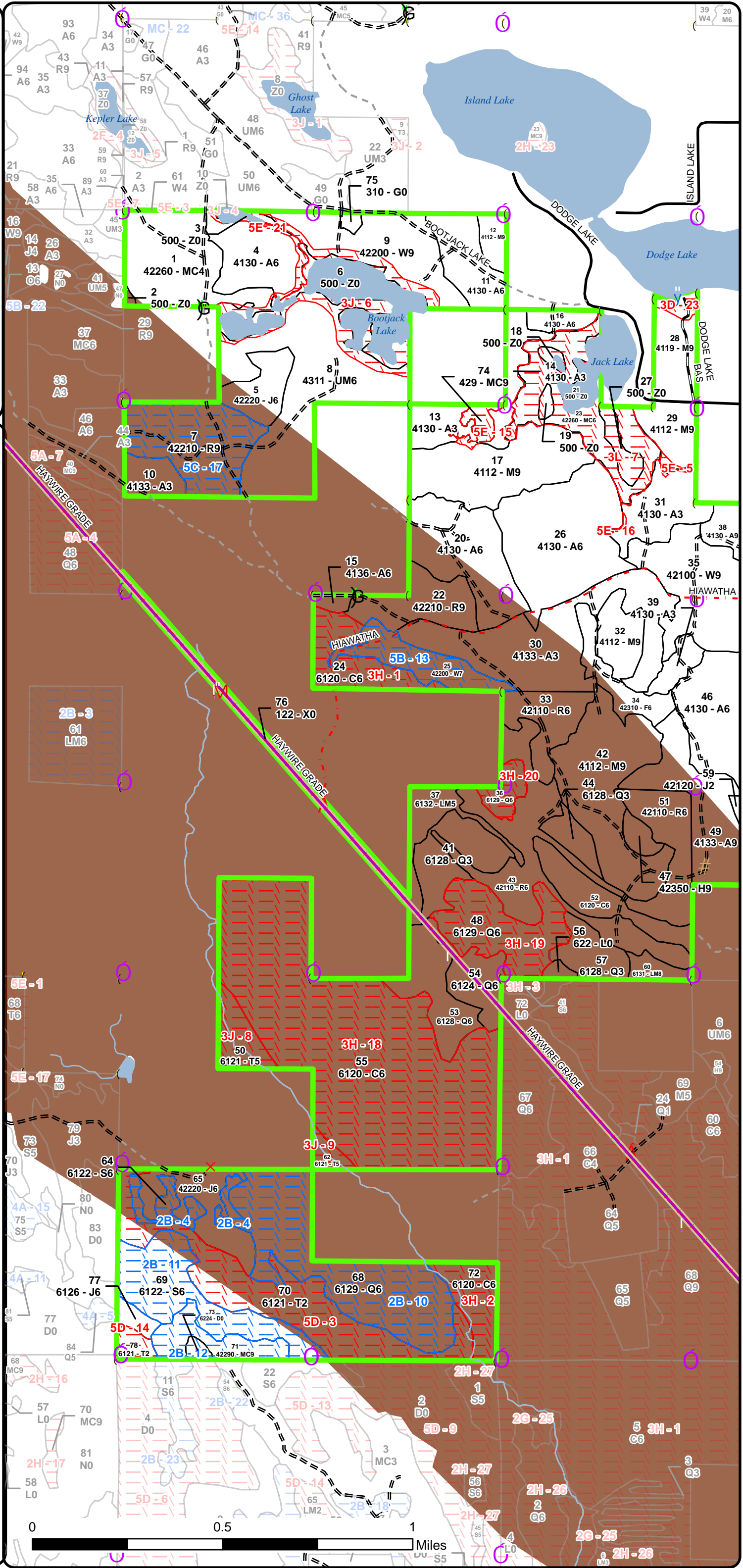


Special Conservation Areas & Site Conditions Map

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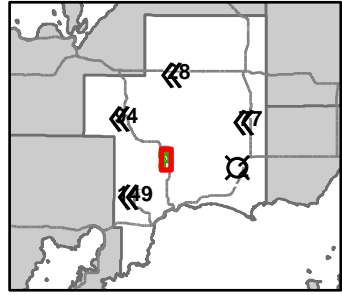


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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes

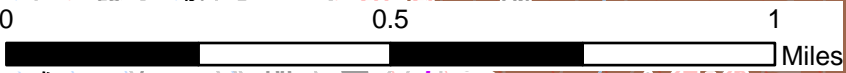
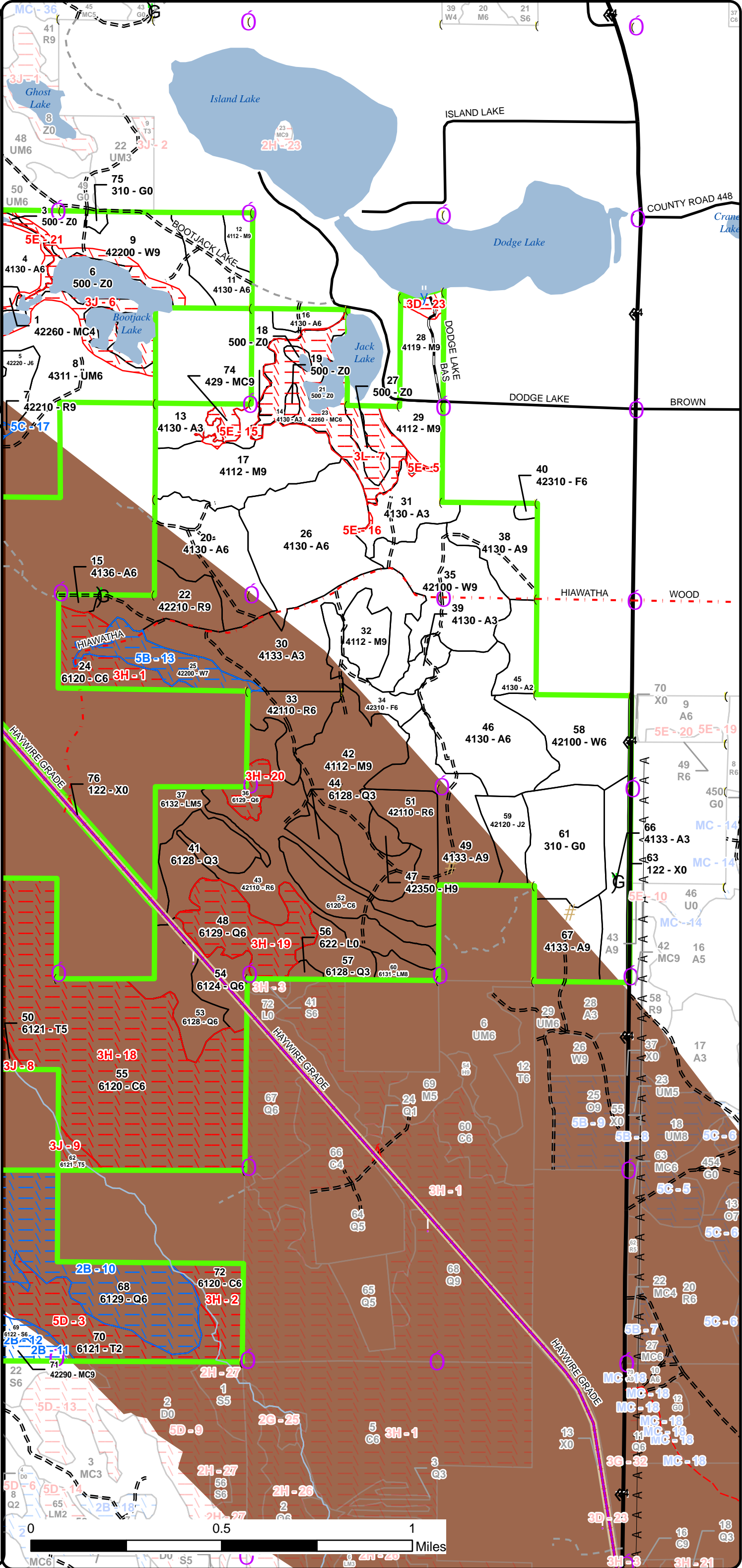


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- 5B: Maintain for regeneration purposes





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	53	96	50	147	20	91	0	0	0	0	0	0	0	0	0	0	0	456
Cedar	0	0	0	0	0	0	22	0	0	19	0	215	0	0	0	0	0	0	256
Hemlock	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Jack Pine	0	0	14	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Conifers	0	0	0	21	39	0	22	0	0	79	35	0	0	0	0	0	0	0	194
Lowland Mixed Forest	0	0	0	0	0	5	0	0	0	0	14	0	0	0	0	0	0	0	19
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	39	0	11	0	0	0	0	0	0	0	0	0	50
Natural Mixed Pines	0	0	0	0	0	0	0	42	0	0	16	37	0	0	0	0	0	0	95
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	99	56	0	0	0	0	0	0	155
Red Pine	0	0	0	0	95	0	0	0	22	42	0	0	0	0	0	0	0	0	159
Tamarack	0	0	0	0	0	0	63	17	0	0	0	0	0	0	0	0	0	0	80
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Upland Spruce/Fir	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
White Pine	0	0	0	0	0	0	37	86	0	0	0	20	0	0	0	0	0	0	143
Total	118	53	110	150	321	25	274	161	33	144	164	333	0	0	0	0	0	0	1883



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 41

Total Compartment Acres: 1,884

Commercial Harvest - 437
 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
Aspen	107	0	0	0	0	0	0	0	0	107
Northern Hardwood	0	138	0	0	0	0	0	0	0	138
Red Pine	51	0	0	0	0	44	0	0	0	95
Upland Spruce/Fir	16	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	0	0	83	0	0	0	83
Total	173	138	0	0	0	127	0	0	0	437

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	437	0	0	0	0	0	0	0	0	437
Next Step	0	0	51	0	0	0	260	0	0	311
Total	437	0	51	0	0	0	260	0	0	748



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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:

4	41041004-Cut	22.9	4130 - Aspen	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest of all species except hemlock and oak. Two inch specification should be used on hardwood species. Cut one 8-10" DBH by 8ft
Specs: long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4' high. May take tops. Edge retention should be placed along riparian area in the north, east, and southeast.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any currently species present onsite.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

11	41041011-Cut	19.8	4130 - Aspen	Poletimber Well	44	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest of all species except hemlock and oak. Two inch specification should be used on hardwood species. Cut one 8-10" DBH by 8ft
Specs: long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4' high. May take tops. Edge retention can be placed between this stand and hardwood to the east.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species currently onsite.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

12	41041012-Cut	6.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Selection Harvest. Install adequate regeneration gaps according to northern hardwood gap guidance. Target 80 ft of residual basal area.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species present onsite.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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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17 41041017-Cut	44.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Selection harvest, complete marker standards. Install adequate regeneration gaps according to northern hardwood gap guidance. Marking should target 80 basal area, however some areas will be lower than 80 basal area due to prior beech salvage harvests. Some hemlock areas exist within stand and can be excluded with red line or avoided when marking.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species currently present onsite.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

28 41041028-Cut	16.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Restrict harvest to winter conditions due to boat launch. Install adequate regeneration gaps according to northern hardwood gap guidance.

Specs: Remove any hazard trees adjacent to road. Overall basal area may be lower due to previous beech component and over mature trees. Target a residual of 80 where feasible. Area near the boat launch will be excluded from treatment as retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species currently present onsite.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

29 41041029-Cut	14.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Install adequate regeneration gaps according to northern hardwood gap guidance. Residual basal area target of 80.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed hardwoods and conifers

Regen:

Other

Comment: Some existing low areas are present due to beech die-off but pockets of higher basal area exist and stand would benefit from a selection harvest

Site Condition

Proposed Start Date: 10/1 /2025



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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
33 41041033-Cut	18.9	42110 - Planted Red Pine	Poletimber Well	35	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin. Harvest every 3rd row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										
34 41041034-Cut	14.2	42310 - Planted Spruce	Poletimber Well	63	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all trees except hemlock and oak. Retention can be excluded with sale boundary. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Any species present onsite. Stand is a white spruce plantation, but will likely regenerated to aspen and mixed conifers. If regeneration does not occur, this is acceptable and will be evaluated next inventory cycle when slash is decomposed and oak planting may be feasible. <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										
35 41041035-Cut	45.6	42100 - Planted White Pine	Sawtimber Well	63	111-140	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Row thinning. Mark red pine and white pine to cut. Harvest all other species except hemlock and oak. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										
38 41041038-Cut	25.2	4130 - Aspen	Sawtimber Well	58	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest of all species except hemlock and oak. Two inch specification should be used on hardwood species. Cut one 8-10" DBH by 8ft long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4' high. May take tops. Retention can be placed adjacent to Hiawatha Station Road by house for visual aesthetics. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Any species currently present onsite. <u>Other Comment:</u> Contact should be made with adjacent landowner during sale preparation. <u>Site Condition</u> Proposed Start Date: 10/1 /2025</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
40	41041040-Cut	1.5	42310 - Planted Spruce	Poletimber Well	61	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest all species except hemlock and oak. No retention due to small treatment size</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</u> Any species currently present onsite. Currently plantation, but stand will likely convert to aspen and mixed conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand will likely convert to aspen and mixed conifers.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
42	41041042-Cut	55.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Group Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Harvest 20% of the treatment acreage through gap selection. Gaps should have all trees removed taller than 15 feet. Gaps should be 50 to 100 foot radius. Marking between gaps is not desired unless needed for operability. Do not cut hemlock and oak. Restrict harvest from December 1 to March 31. No chipping</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</u> All species present onsite</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 /2025</p>											
43	41041043-Cut	50.7	42110 - Planted Red Pine	Poletimber Well	30	111-140	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Remove all trees except hemlock and oak. Retention should be left along the hillsides of stand which may be inoperable. Slash should be piled to allow for WLD plantings.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is desired to be planted, however any species including low stocking is acceptable.</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 /2025</p>											
49	41041049-Cut	38.8	4133 - Aspen, Mixed Pine	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest of all species except hemlock and oak. Two inch specification should be used on hardwood species. Cut one 8-10" DBH by 8ft long tree per acre and leave it fell immediately adjacent to its stump, which should be at least 4' high. May take tops. Stand should have patch or edge retention. Area to the east near borrow pit would be good location. Restrict harvest from December 1 to March 31. No chipping</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</u> Any species currently present onsite.</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 /2025</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
51 41041051-Cut	25.0	42110 - Planted Red Pine	Poletimber Well	35	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin. Harvest every 3rd row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										
58 41041058-Cut	37.0	42100 - Planted White Pine	Poletimber Well	56	111-140	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Row thinning. Mark red pine and white pine to cut. Harvest all other species except hemlock and oak. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										

Total Treatment 437.2
 Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2B	4A	5B	5C	3D	3H	3J	3L	5D	5E
456	451	0	5	Aspen							0	1		4
255	19	0	236	Cedar						236				
5	5	0	0	Hemlock										
40	40	0	0	Herbaceous Openland										
55	54	0	0	Jack Pine		0								
195	82	71	42	Lowland Conifers	71					42				
20	20	0	0	Lowland Mixed Forest										
2	2	0	0	Lowland Shrub										
50	0	50	0	Lowland Spruce/Fir	50									
95	42	16	38	Natural Mixed Pines	16						1	37		0
155	149	0	6	Northern Hardwood					4			0		2
159	117	42	0	Red Pine				42						
80	0	0	80	Tamarack		0					17		63	
2	0	2	0	Treed Bog	2									
4	0	0	4	Upland Conifers										4
79	67	0	12	Upland Mixed Forest							12			
16	16	0	0	Upland Spruce/Fir										
17	17	0	0	Urban										
57	1	0	56	Water							39	17		0
143	115	20	8	White Pine			20				8			0
1,884	1,197	201	487	Total Forested Acres	139	0	20	42	4	278	77	55	63	10
	64%	11%	26%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 41
Year of Entry: 2026



2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5D: Unproductive Forest Land	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	60	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3L: Other wildlife concerns	55	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 41
Year of Entry: 2026



8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	71	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 41
Year of Entry: 2026



14	Unavailable	5D: Unproductive Forest Land	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: treatment should wait till aspen is merchantable							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	198	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



20	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3D: Recreational / Scenic values	4	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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
1	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	41.9	60	1-50	N/A	Stand was harvested with sale 20-06, Dump buffer December 2007. TSI completed under FTP 41-1287. The SW corner was previously a red pine stand and was planted with inmates. It now looks very similar to this stand and was combined in inventory. Red pine planted did survive and is a component of the stand.																																		
<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>White Pine</td> <td>50</td> <td>Pole/Log</td> <td>9</td> <td>60</td> </tr> <tr> <td>Quaking Aspen</td> <td>40</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	50	Pole/Log	9	60	Quaking Aspen	40	Sapling	3		Red Pine	10	Pole/Log	9		<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>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	< 5 feet	Sapling	Red Maple	Medium	5 - 10 feet	Sapling	White Pine	Medium	5 - 10 feet	Sapling	
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3	500 - Water	Nonstocked	2.1			No																																			
4	4130 - Aspen	Poletimber Well	26.5	50	111-140	N/A																																			
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5	42220 - Natural Jack Pine	Poletimber Well	14.5	32	1-50	N/A																																			
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8	4311 - Pine, Aspen Mix	Poletimber Well	79.1	26	51-80	N/A	Stand was cut under sale 41-068-96-01 in 1997. TSI work occurred in 2000.																																		
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15	4136 - Aspen, Mixed Conifer	Poletimber Well	2.5	33	51-80	N/A																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4130 - Aspen	Poletimber Well	6.1	34	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		10	Pole	8		Beech		Low	5 - 10 feet	Sapling
Black Cherry		5	Pole/Sapling	5		White Pine		Low	5 - 10 feet	Sapling
Balsam Fir		5	Sapling/Pole	4						
Red Maple		20	Pole/Sapling	5						
Quaking Aspen		60	Pole/Sapling	6	34					

17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	44.7	90	111-140	N/A	Stand was cut as part of the Beech Sap Slapped Sale #41-022-13-01. TCR Date 11/10/2014. Beech was the only species harvested.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		47	Log	12	90	Sugar Maple		Medium	5 - 10 feet	Sapling
Sugar Maple		33	Log	12		Beech		High	5 - 10 feet	Sapling
Yellow Birch		10	Log	12		Red Maple		Medium	5 - 10 feet	Sapling
Beech		1	Log	12						
Paper Birch		6	Log	12						
Hemlock		2	Log	12						
Quaking Aspen		1	Log	12						

18	500 - Water	Nonstocked	1.9				No
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19	500 - Water	Nonstocked	1.7				No
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20	4130 - Aspen	Poletimber Well	39.9	24	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	5		White Pine		Medium	5 - 10 feet	Sapling
Red Pine		5	Log/Pole	12						
Quaking Aspen		80	Pole/Sapling	5	24					
White Pine		10	Log/Pole	12						

21	500 - Water	Nonstocked	7.2				No
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22	42210 - Natural Red Pine	Sawtimber Well	22.4	76	81-110	N/A	1/15/2019 TI: Stand was cut as part of Hiawatha Station Sale #41-009-16-01. TCR Date 1/2/2019.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		80	Log/Pole	11	76	White Pine		Medium	10 - 20 feet	Sapling
White Pine		20	Log/Pole	11		Quaking Aspen		High	10 - 20 feet	Sapling
						Balsam Fir		Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 42260 - Natural Pine, Mixed Deciduous Poletimber Well 37.2 100 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	10	Log/XLog/Pole	16		White Pine	Medium	10 - 20 feet	Sapling
Quaking Aspen	15	Pole/Log	9		Beech	Medium	5 - 10 feet	Sapling
White Pine	40	Log/XLog/Pole	16	100				
Red Pine	20	Log/XLog/Pole	16					
Red Maple	15	Pole/Log	9					

24 6120 - Lowland Cedar Poletimber Well 21.5 57 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Sapling	6		Black Spruce	Low	< 5 feet	Sapling
Paper Birch	10	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Sapling	5					
Red Maple	10	Pole/Sapling	5					
Northern White Cedar	60	Pole/Sapling	6	57				

25 42200 - Natural White Pine Sawtimber Poor 19.9 100 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	60	Log/Pole/XLog	16	100	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine	20	Log/Pole	12		White Pine	Medium	< 5 feet	Sapling
Northern White Cedar	10	Pole	8		Black Spruce	Medium	< 5 feet	Sapling
Hemlock	10	Log/XLog/Pole	14		Quaking Aspen	High	>20 feet	Sapling
					Paper Birch	Low	5 - 10 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling

Stand was cut in February 2008, dump buffer sale 20-06. Residual basal areas from cruise were hemlock 4ft, cedar 4ft, white pine 22ft, red pine 12 ft, overall 42

26 4130 - Aspen Poletimber Well 59.9 33 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Pole/Sapling	6	33	White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole/Sapling	6					
Balsam Fir	5	Sapling/Pole	4					

27 500 - Water Nonstocked 5.9 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
28	4119 - Mixed Northern Hardwoods	Sawtimber Well	20.4	90	81-110	N/A																																																								
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32	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.7	90	81-110	N/A	Stand was thinned in 1986. .and-2016																																																							
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33	42110 - Planted Red Pine	Poletimber Well	18.9	35	111-140	N/A																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	42310 - Planted Spruce	Poletimber Well	14.2	63	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		10	Pole	9		White Pine	
White Spruce		80	Pole/Log	9	63	Medium	
White Pine		5	Log	12		5 - 10 feet	
Paper Birch		5	Pole	8		Sapling	
35	42100 - Planted White Pine	Sawtimber Well	45.6	63	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		15	Log	11		White Pine	
White Pine		65	Log/Pole	10	63	Medium	
Jack Pine		5	Log	11		5 - 10 feet	
Red Pine		15	Log	12		Sapling	
36	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.5	80	51-80	N/A	cedar was left previous harvest
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		15	Sapling/Pole	4	28	Tamarack	
Paper Birch		10	Sapling/Pole	4		Medium	
Northern White Cedar		40	Pole	8	80	5 - 10 feet	
Black Spruce		35	Sapling/Pole	4	28	Tall Shrub	
						Black Spruce	
						Medium	
						5 - 10 feet	
						Sapling	
37	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	14.1	90	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole	8		Alder	
White Pine		10	Log/Pole	14		Medium	
Northern White Cedar		30	Pole	8		5 - 10 feet	
Red Maple		40	Pole/Log	9	90	Tall Shrub	
Black Spruce		10	Pole	8		Balsam Fir	
						High	
						10 - 20 feet	
						Sapling	
38	4130 - Aspen	Sawtimber Well	25.2	58	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		5	Pole	9		Red Maple	
Quaking Aspen		75	Log	10	58	Medium	
Red Maple		5	Pole	9		< 5 feet	
Paper Birch		5	Pole	9		Sapling	
White Pine		10	Log	10		White Pine	
						Medium	
						5 - 10 feet	
						Sapling	
39	4130 - Aspen	Sapling Well	7.1	6	1-50	N/A	1/15/2019: Stand was cut as part of the Hiawatha Station Road Sale 41-009-16-01. TCR Date 1/2/2019.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		97	Sapling	1	6		
Hemlock		3	Log/Pole	10			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 42310 - Planted Spruce Poletimber Well 1.5 61 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	100	Pole/Log	9	61

41 6128 - Lowland Coniferous, Mixed Deciduous Sapling Well 22.8 33 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Sapling	2		Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	20	Sapling	2		Balsam Fir	High	5 - 10 feet	Sapling
Tamarack	20	Sapling	2	33				
Balsam Fir	20	Sapling	2					
Northern White Cedar	20	Pole	8					

42 4112 - Maple, Beech, Cherry Association Sawtimber Well 55.7 100 111-140 N/A

NE portion of stand was thinned in November 2007, Dump Buffer Sale, 20-06. Residual basal areas were 65 red maple, 15 sugar maple

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Log	14		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	45	Log	14	100	Red Maple	Medium	10 - 20 feet	Sapling
Hemlock	10	Log	14		Beech	Medium	10 - 20 feet	Sapling
Beech	5	Log	16					
Red Maple	30	Log	14					

43 42110 - Planted Red Pine Poletimber Well 50.7 30 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole	8	30

44 6128 - Lowland Coniferous, Mixed Deciduous Sapling Well 7.8 28 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Sapling	3		Black Spruce	Medium	5 - 10 feet	Sapling
Quaking Aspen	10	Sapling	3		Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	20	Pole	6					
Black Spruce	40	Sapling	4	28				
Tamarack	20	Sapling	3					

45 4130 - Aspen Sapling Medium 14.3 6 1-50 N/A

Some kind of unique habitat work occurred here past. Mounds were created throughout the stand and aspen is growing on top of those mounds.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	10	Sapling	1	
Quaking Aspen	90	Sapling	1	6

1/15/2019: This stand was cut as part of Hiawatha Station Sale #41-009-16-01. TCR Date 1/2/2019.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	4130 - Aspen	Poletimber Well	54.4	37	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		15	Pole	6		Quaking Aspen	
Quaking Aspen		75	Pole	6	37	White Pine	
White Pine		5	Log/Pole	10		Balsam Fir	
Red Maple		5	Pole	6		Alder	
Sub-Canopy Species		Density	Avg. Height	Size			
Quaking Aspen		Medium	5 - 10 feet	Sapling			
White Pine		Low	5 - 10 feet	Sapling			
47	42350 - Upland Hemlock	Sawtimber Well	4.7	100	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Log/Pole	12		Red Maple	
Hemlock		70	Log	16	100	Beech	
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Medium	10 - 20 feet	Sapling			
Beech		Medium	5 - 10 feet	Sapling			
48	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	34.5	90	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		40	Pole	8	90	Balsam Fir	
Balsam Fir		30	Pole/Sapling	7		Alder	
Black Spruce		10	Pole/Sapling	7			
White Pine		10	Log/XLog/Pole	14			
Paper Birch		10	Pole	7			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		High	10 - 20 feet	Sapling			
Alder		Medium	5 - 10 feet	Tall Shrub			
49	4133 - Aspen, Mixed Pine	Sawtimber Well	38.8	54	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		20	Log	14		Red Maple	
Paper Birch		5	Pole	9		Red Oak	
Red Maple		5	Pole	9		White Pine	
Quaking Aspen		45	Log/Pole	10	54	Red Pine	
White Pine		10	Log	14			
Red Oak		15	Log/Pole	10			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Medium	5 - 10 feet	Sapling			
Red Oak		Medium	10 - 20 feet	Sapling			
White Pine		Medium	5 - 10 feet	Sapling			
Red Pine		Low	5 - 10 feet	Sapling			
50	6121 - Tamarack	Poletimber Medium	12.6	60	51-80	N/A	
51	42110 - Planted Red Pine	Poletimber Well	25.0	35	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Pole	7	35		
52	6120 - Lowland Cedar	Poletimber Well	19.2	80	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	8		Balsam Fir	
Paper Birch		10	Pole	7			
Northern White Cedar		80	Pole	9	80		
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	5 - 10 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 22.3 50 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Pole	8		Balsam Fir	High	5 - 10 feet	Sapling
Balsam Poplar	5	Pole	7		Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	15	Pole	7					
Balsam Fir	25	Pole	5	50				
Northern White Cedar	15	Pole/Log	9	60				
Black Spruce	20	Pole	8					

54 6124 - Lowland Spruce-Fir Poletimber Well 15.9 35 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Pole	6		Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	40	Pole	6	35	Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	20	Pole	6					
Balsam Fir	20	Pole/Sapling	5					

55 6120 - Lowland Cedar Poletimber Well 197.6 100 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	75	Pole	8	100				
Balsam Fir	5	Pole	8					
Paper Birch	5	Pole	8					

68 cruise plots were placed in this stand before it was purchased from Plum Creek. Roughly 75 % of the volume was cedar.

56 622 - Lowland Shrub Nonstocked 2.0 No

57 6128 - Lowland Coniferous, Mixed Deciduous Sapling Well 13.4 28 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	10	Sapling	3	
Balsam Fir	30	Pole/Sapling	5	28
Northern White Cedar	15	Pole/Sapling	5	
Red Maple	20	Sapling	4	
White Pine	10	Sapling	2	
Black Spruce	15	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
58	42100 - Planted White Pine	Poletimber Well	37.0	56	111-140	N/A																																														
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59	42120 - Planted Jack Pine	Sapling Medium	14.4	16	1-50	N/A	<p>In summer of 2002 the city of Manistique through a long mitigation process hired a contractor to cap the landfill, Bitner Engineering was the final company to oversee the capping. In a letter dated 8/27/2001, Jeff Stampfly wrote a change in Prescription letter to the other co-managers to inform everyone of the closure and that it was agreed to jointly with wildlife division that once closure was complete native grasses would be established on site and it would be a long term seed orchard. Also as part of the mitigation a borrow pit for sand was needed and this stand was the best possible place for such sand, this was agreed to and part of Stampfly's letter. It was concluded that once the borrow pit was complete it would be planted to jack pine. Stand was planted to jack pine in May 2004. 2005 regen count was - 676 jack pine, lots of deer browse. 2007 count was 162 jack pine. Planted again in 2007 with 11,500 more trees. 2008 count was 581 jack pine. 2010 count was 646 jack pine.</p>																																													
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60	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium	5.4	45	51-80	N/A																																														
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61	310 - Herbaceous Openland	Nonstocked	37.9			No	Perimeter of stand was planted with apple spp. according to ftp W41-1607, 2014.																																													
62	6121 - Tamarack	Poletimber Medium	4.6	60	51-80	N/A																																														
63	122 - Road/Parking Lot	Nonstocked	3.7			No																																														
64	6122 - Black Spruce	Poletimber Well	11.2	79	51-80	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
65	42220 - Natural Jack Pine	Poletimber Well	21.6	33	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		10	Sapling	4					
Jack Pine		80	Pole/Sapling	5	33				
Tamarack		10	Sapling	4					
66	4133 - Aspen, Mixed Pine	Sapling Well	21.5	15	1-50	N/A	Stand was cut in spring 2008, Dump Buffer Sale - 20-06. Residual basal areas from cruise were 5 ft oak, 4 ft red pine, 6 ft white pine. TSI work was completed under FTP W41-1287 in fall 2008.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		20	Log	10		White Pine	Low	< 5 feet	Sapling
Quaking Aspen		55	Sapling	2	15	Quaking Aspen	Medium	5 - 10 feet	Sapling
White Pine		20	Pole	9					
Red Pine		5	Pole	9					
67	4133 - Aspen, Mixed Pine	Sawtimber Well	23.9	37	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	6		White Pine	High	5 - 10 feet	Sapling
Red Pine		20	Log	14		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen		40	Pole	6	37				
White Pine		15	Pole	9					
Red Oak		15	Log/Pole	10					
68	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	71.0	80	81-110	N/A	ridges are younger and were cut in past.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		40	Pole	8	80	Black Spruce	Medium	5 - 10 feet	Sapling
White Pine		5	Log/XLog/Pole	14		Alder	High	5 - 10 feet	Tall Shrub
Jack Pine		15	Pole	7	53				
Black Spruce		20	Pole	7					
Northern White Cedar		15	Pole	6					
Red Pine		5	Log/Pole/XLog	14					
69	6122 - Black Spruce	Poletimber Well	38.8	53	1-50	N/A	jp ridges present		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		30	Pole/Sapling	6		Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce		60	Pole/Sapling	5	53				
Tamarack		10	Sapling/Pole	4					
70	6121 - Tamarack	Sapling Medium	58.5	50	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		35	Sapling/Pole	4		Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack		65	Sapling/Pole	4	50	Alder	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
71	42290 - Natural Mixed Pine	Sawtimber Well	15.7	91	51-80	N/A	6 acres on the SW side of this stand was set up and on proposal 41-015-11-01, Oversize snowmachine. Residual basal areas from cruise were 13 ft red pine, 11 ft white pine.																																						
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72	6120 - Lowland Cedar	Poletimber Well	17.0	102	81-110	N/A																																							
73	6224 - Treed Bog	Nonstocked	2.0	0	Unspecified	No	6 acres on the SW side of this stand was set up and on proposal 41-015-11-01, Oversize snowmachine. Residual basal areas from cruise were 13 ft red pine, 11 ft white pine.																																						
74	429 - Mixed Upland Conifers	Sawtimber Well	4.0	81	111-140	N/A																																							
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75	310 - Herbaceous Openland	Nonstocked	1.7	0		No	Stand was cut in summer of 2000. TSI work was completed also. [9/30/19 T!] Stand was cut as part of Quacking Aspen Sale #41-007-18-01																																						
76	122 - Road/Parking Lot	Nonstocked	13.7			No																																							
77	6126 - Lowland Jack Pine	Poletimber Well	4.1	30	1-50	N/A																																							
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