



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41169

Entry Year 2024

Acreage: 1,377

County Alger

Management Area: Pictured Rocks Buffer

Stand Examiner: Scott Kentner

Legal Description:

T48N R17W Sections 26,33-35

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan

Soil and topography:

The hardwoods timber types in this compartment are growing on Saugatuck sand, Ogemaw sandy loam or Munising loam. The conifer timber types are growing on Carbondale peat. The terrain ranges greatly from very steep hills to rolling areas to the flats in the conifer types.

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

This compartment has broken ownership of private and commercial private lands. The entire compartment is within the Pictured Rocks National Lake Shore Boundary.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

This area was logged at the turn of the century like many of the areas in the Shingleton Management Unit. There are traces of old grades and winter roads.

Special Management Designations or Considerations:

The compartment is located within the dedicated Pictured Rocks National Lakeshore Buffer Zone.

Watershed and Fisheries Considerations:

Fisheries Concerns: This compartment borders Spray Creek in the Northeastern portion. Spray Creek is a designated trout stream containing native brook trout. Angling pressure is minimal with poor access through the Pictured Rocks National Lakeshore. Spray Creek looks to have a site-condition placed on it until it leaves the compartment boundary. Section Thirty-four Creek is also a designated trout stream with the presence of native brook trout. This is a coldwater stream that feeds into Chapel Lake and then into Chapel Creek. The riparian management zone (RMZ) for both Spray Creek and Section Thirty-four Creek should be set at 100 feet in stands proposed for harvest treatments. For these stands, Fisheries Division requests no cutting within the RMZ for these streams. In any stands proposed for clear-cuts where aspen is a major component or a management objective for regeneration should buffer the streams 300 feet, plus 5 feet per 1% of slope.

Wildlife Habitat Considerations:

This compartment is located in the Grand Marias Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35o F. Snowfall in this compartment averages 200 inches or more annually. The compartment falls within the Pictured Rocks Buffer Management Area which highlights the following Featured Species: American Marten, Blackburnian warbler, northern goshawk and pileated woodpecker. General Land Office (GLO) Surveyor notes show a fairly even distribution of sugar maple, beech, hemlock, yellow birch and balsam fir in the uplands. Spotted maple (presumed to be striped maple), red maple, cedar, and spruce were also present in lesser amounts. Lowlands were dominated by cedar, but also contained hemlock, black ash, beech, tamarack, and balsam fir. Beaver ponding and wind throw were likely the major forms of natural disturbance. Current upland forests appear to be much less diverse than those recorded during the first survey. Sugar maple dominates, while beech, hemlock, yellow birch, and balsam fir probably occur at lower densities. Lowland conifer forests appear to be similar in species composition to those found in the 1850s. Wildlife habitat objectives include maintaining closed canopy conifer forests, protecting the Spray Creek stream corridor, and promoting species and structural diversity within and between hardwood stands. Common loon (Michigan threatened) is the only rare species

recorded within this compartment. Moose (Michigan special concern) utilize this compartment at various times. Other wildlife species of interest may include spotted salamander, American toad, scarlet tanager, red-backed vole and northern flying squirrel.

Mineral Resource and Development Concerns and/or Restrictions

169 Sections 26 & 33-35, T48N-R17W, Alger County

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 just over two miles south. There is some potential for sand within the compartment, but development potential may be limited. The compartment appears to be entirely within the boundaries of Pictured Rocks National Lakeshore, and surface mining may be restricted. No current mineral leasing activity exists in the area. 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:

Access into the south part of the compartment is on good dirt roads. There are a fair number of skid trails and old logging roads that are in and around the compartment. Access to the north is on good dirt roads until the location of a portable bridge at Spray Creek, which will be removed after sale completion. Access can be poor due to heavy soils.

Survey Needs:

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment however opportunities include hunting, fishing and hiking.

Fire Protection:

The timber types are mainly hardwood and lowland conifers reducing the chances of any large wildland fire occurrences.

Additional Compartment Information:

The following reports from the Inventory are attached:

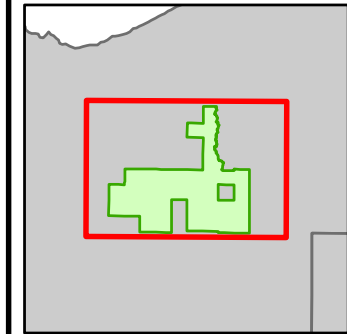
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

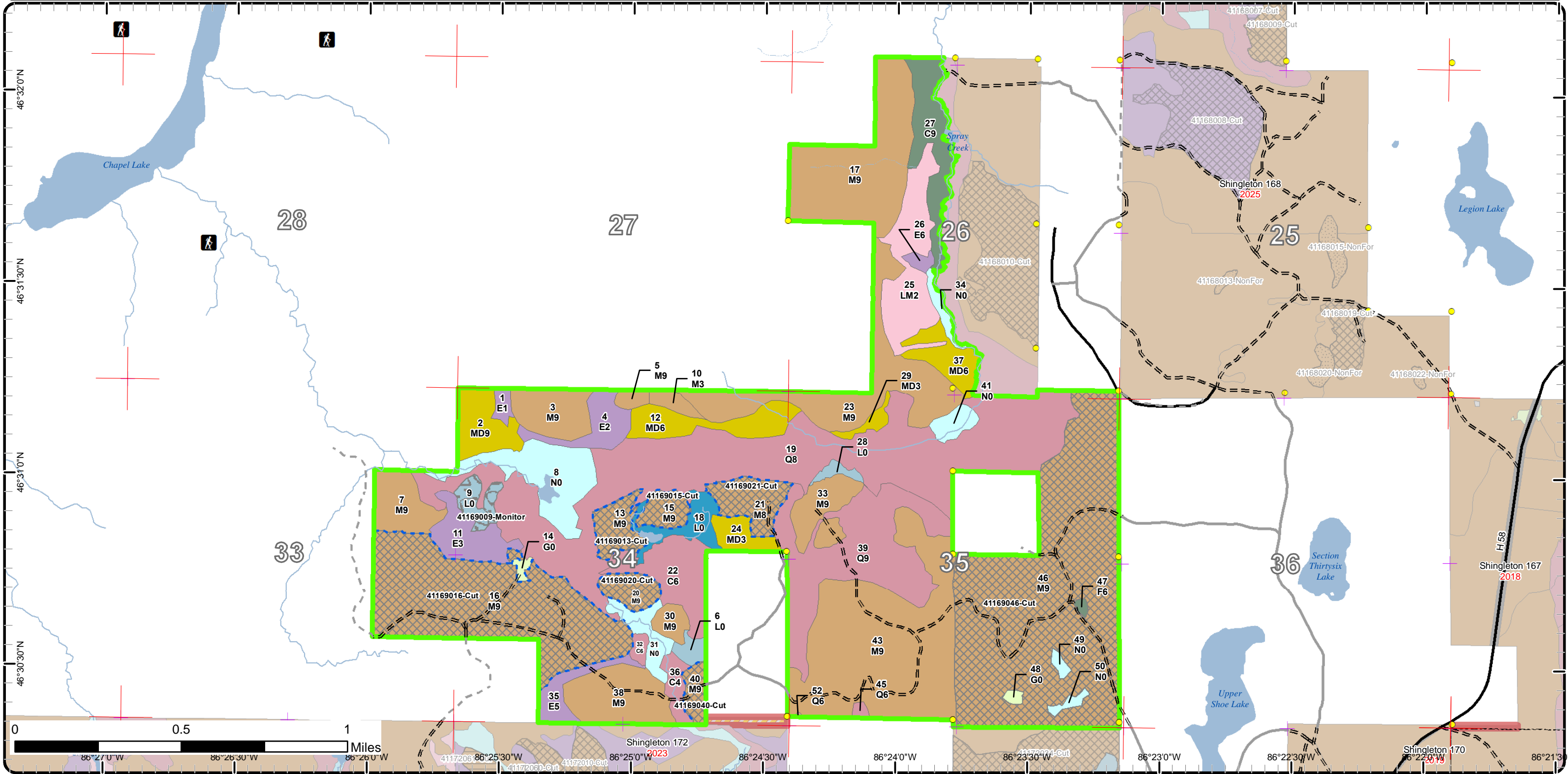
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 169
 T48N, R17W, Sec. 26, 33-35
 County: Alger
 Unit: Shingleton
 Mgmt Area: Pictured Rocks Buffer
 YOE: 2024
 Acres: 1376.9 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 8/17/2022
 Map Phase: Web Post

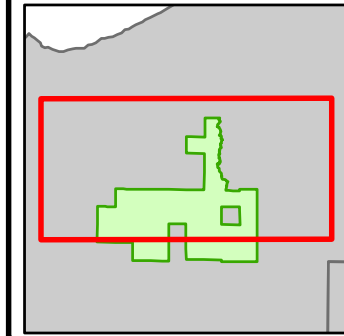


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Regeneration Survey
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

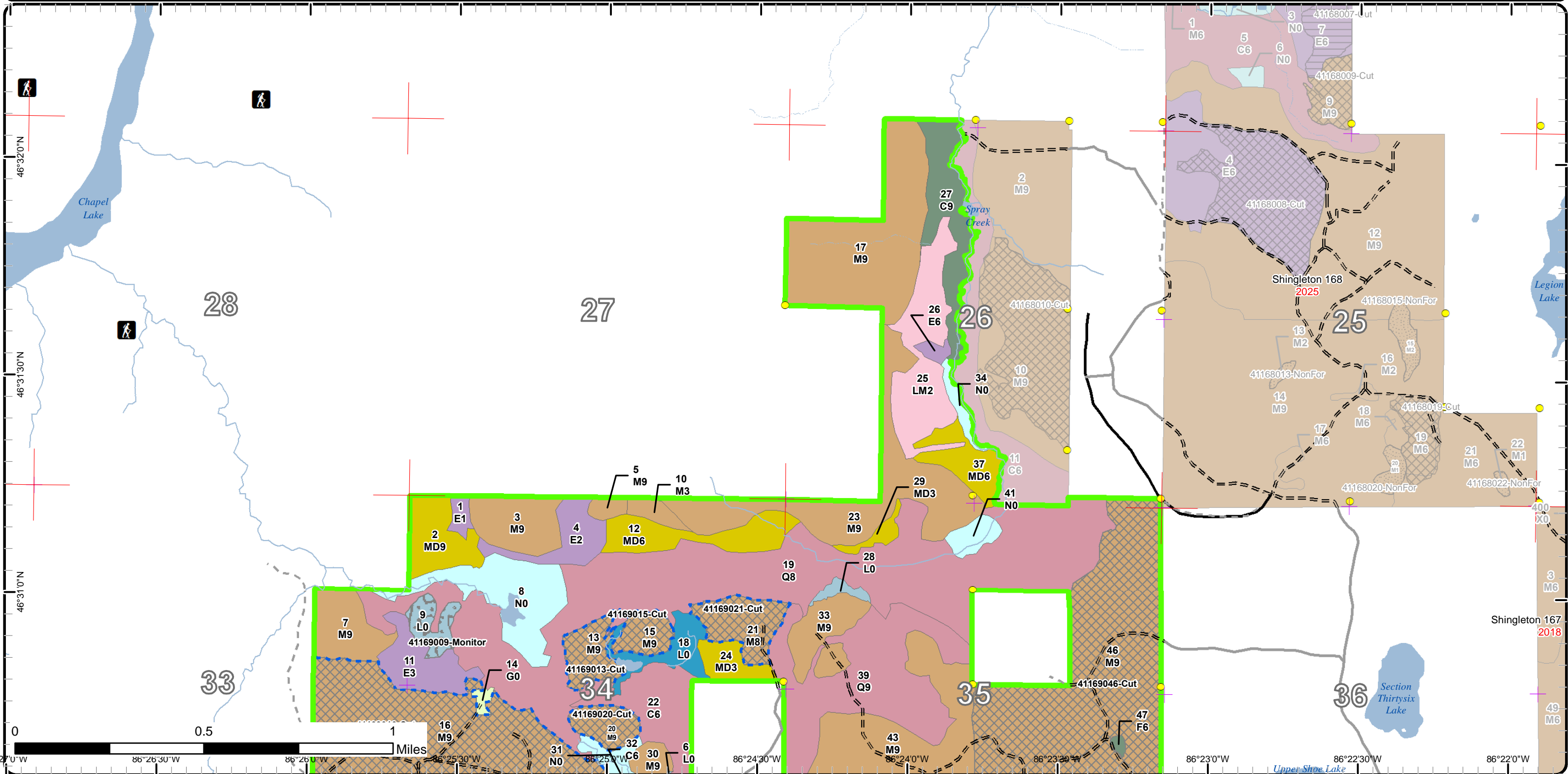


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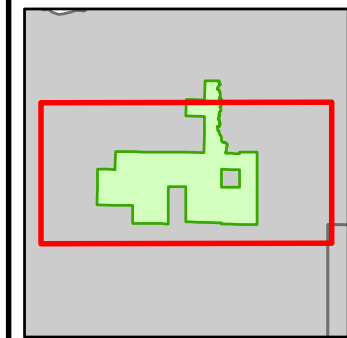


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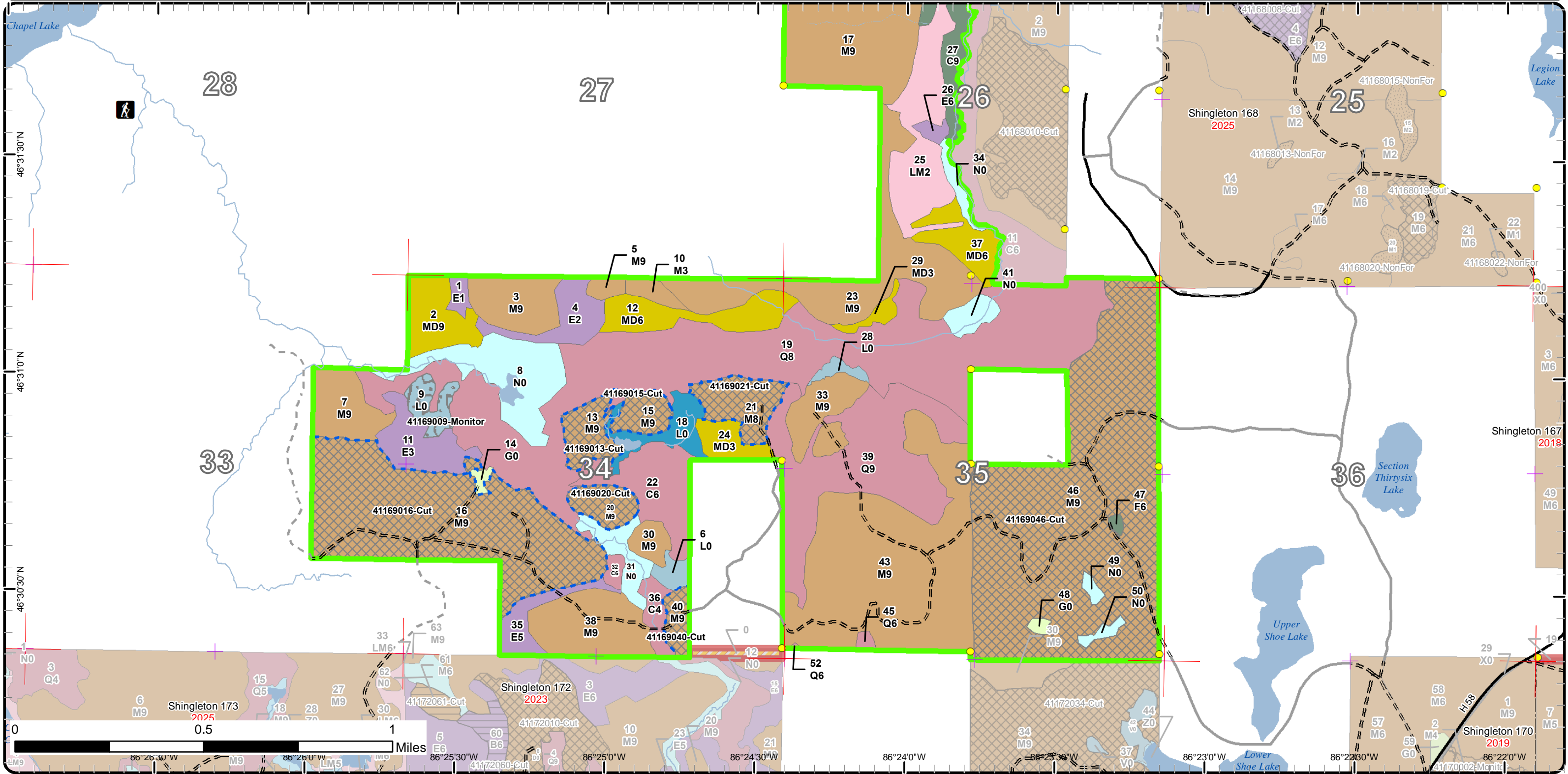


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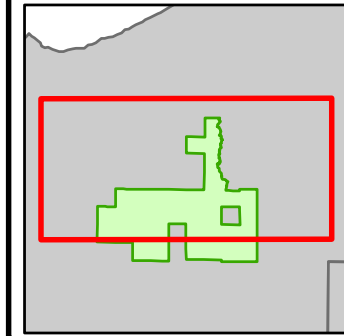


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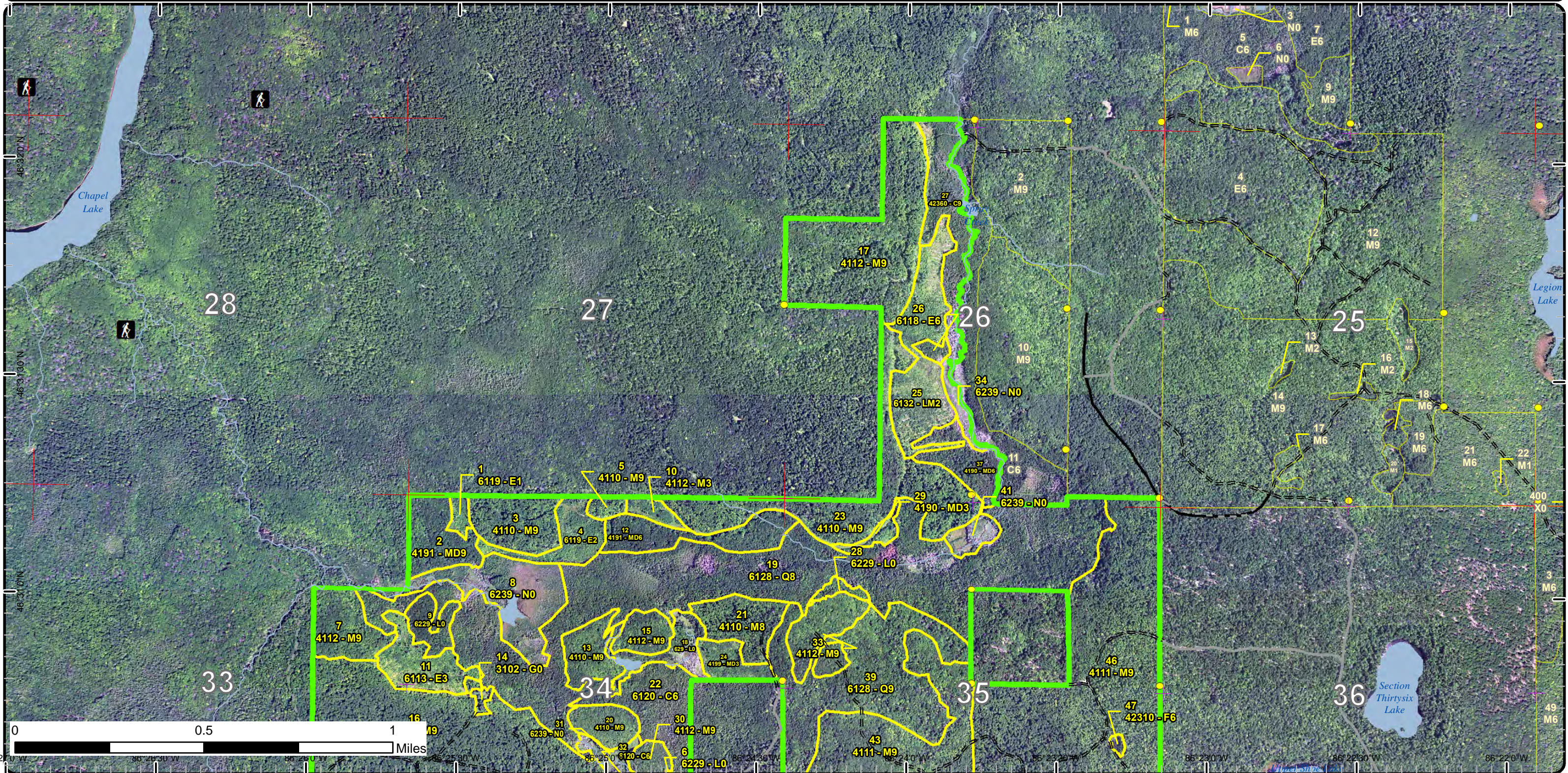


Stand Boundary Map

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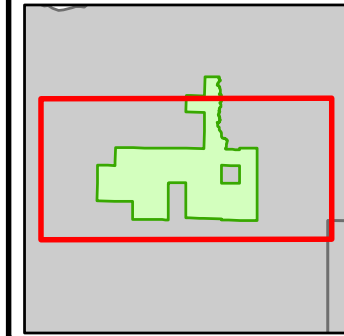


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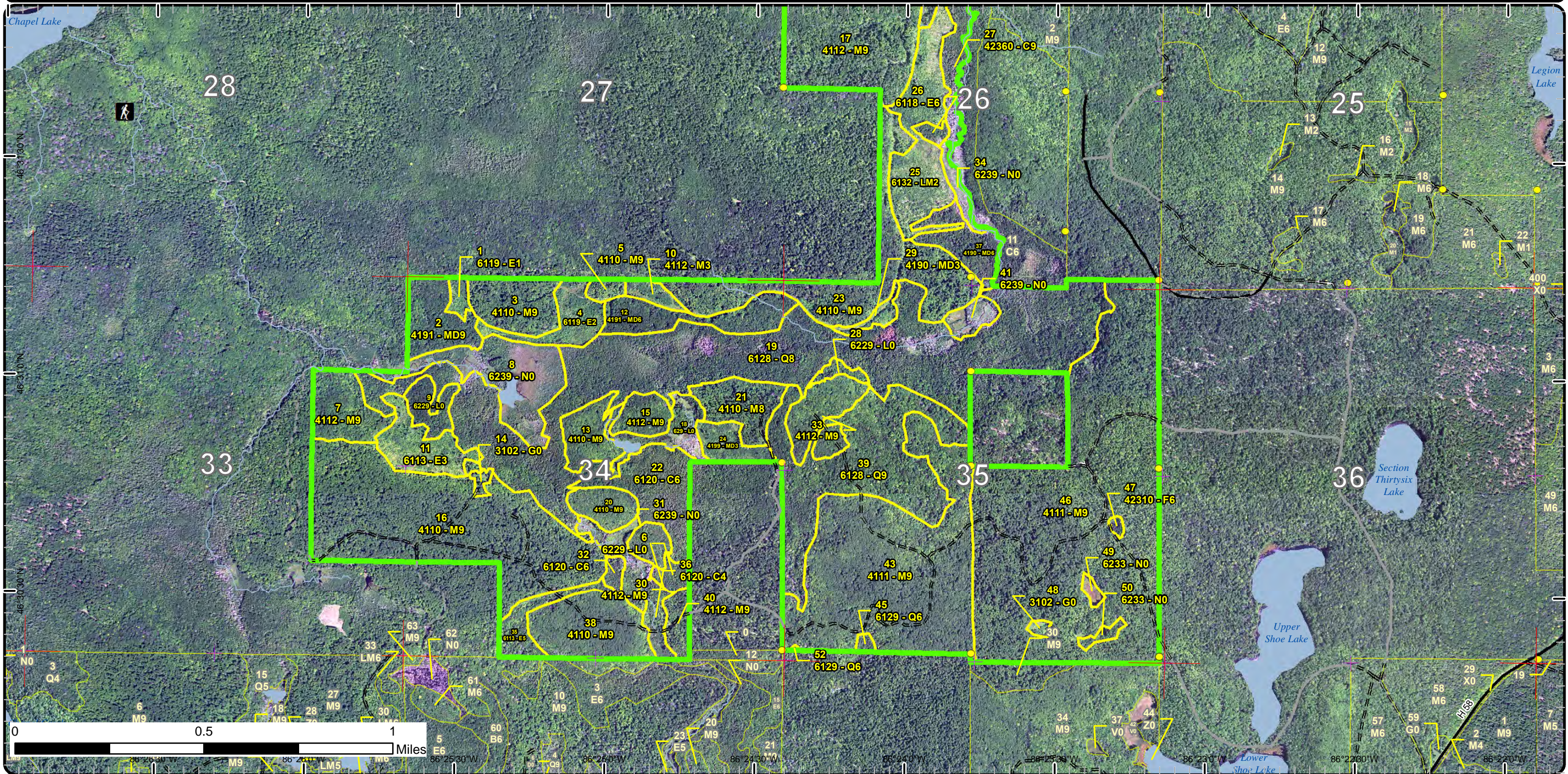


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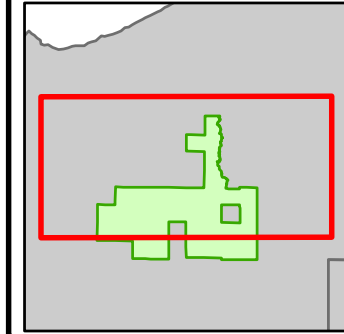


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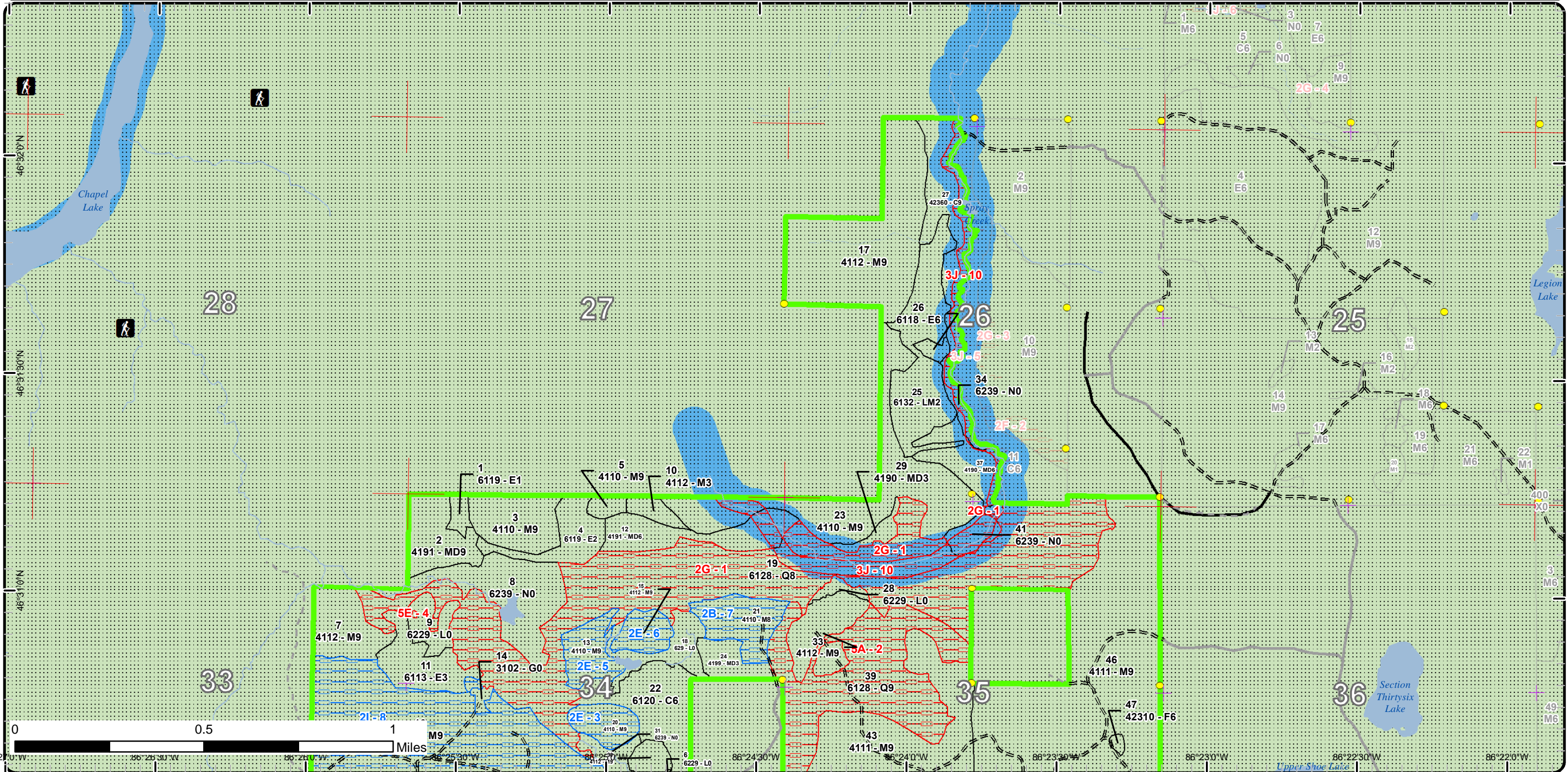


Special Conservation Areas

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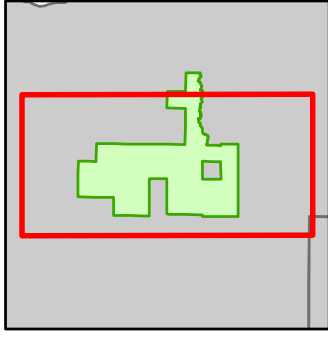
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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
 - 2E: Road needed
 - 2I: Survey needed
- Unavailable
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 3J: Water quality / BMPs (stream, river, or lake)
 - 5A: Not able to obtain desirable regeneration
 - 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area
- Cold Water Streams



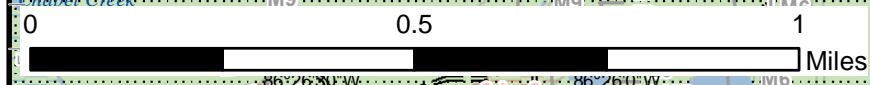
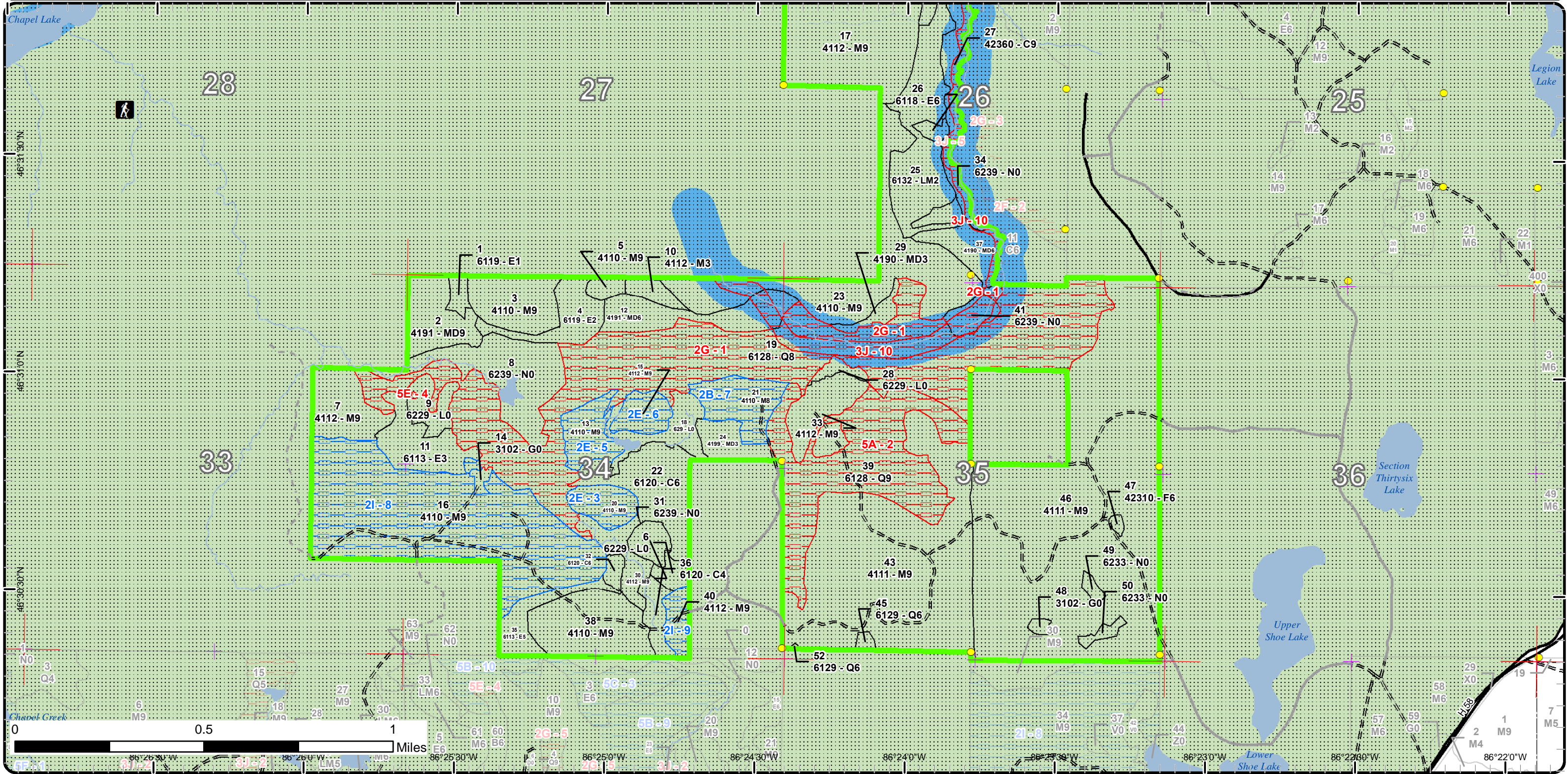
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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
2E: Road needed
2I: Survey needed
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



0 0.5 1 Miles

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
Cedar	0	0	0	0	0	0	0	32	36	0	0	0	0	0	0	0	0	0	67
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	216	0	77	0	0	0	0	0	0	0	0	293
Lowland Deciduous	0	0	36	0	0	0	11	2	0	0	0	0	0	0	0	0	0	0	49
Lowland Mixed Forest	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Marsh	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Mixed Upland Deciduous	0	0	13	0	0	0	0	37	19	0	0	0	0	0	0	0	0	0	69
Northern Hardwood	0	0	5	0	0	0	0	578	183	0	0	0	0	0	0	0	0	0	766
Upland Spruce/Fir	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	93	0	93	1	0	0	11	39	845	219	77	0	0	0	0	0	0	0	1377



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 169
Total Compartment Acres: 1,377

Commercial Harvest - 222
Harvests with Site Condition - 179
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	401	0	0	0	0	0	0	0	401
	Total	0	401	0	0	0	0	0	0	0	401

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		401	0	0	0	0	9	0	0	0	410
Next Step		0	0	0	0	0	401	0	0	0	401
	Total	401	0	0	0	0	410	0	0	0	811



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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:

9	41169009-Monitor	8.9	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Check For regeneration next inventory cycle</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>											
13	41169013-Cut	13.0	4110 - Sugar Maple Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single-Tree selection: Mark stand down to an average of 80BA, following the Complete Marker guidelines, creating regen pockets to promote species diversity and Sugar Maple regen. Sugar Maple advanced regeneration should try to be avoided as not to damage. Winter harvest only due to access.</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> Northern Hardwood species</p> <p><u>Regen:</u></p> <p><u>Other</u> Mark cut trees in any other except Orange as past marking is still present.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
15	41169015-Cut	9.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single-Tree selection: Mark stand down to an average of 80BA, following the Complete Marker guidelines, creating regen pockets to promote species diversity and Sugar Maple regen. Sugar Maple advanced regeneration should try to be avoided as not to damage. Winter harvest only due to access.</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> Northern Hardwood species</p> <p><u>Regen:</u></p> <p><u>Other</u> Mark cut trees in any color except Orange as past marking is still present.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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16	41169016-Cut	121.7	4110 - Sugar Maple Association	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Single-Tree selection: Mark stand down to an average of 80BA, following the Complete Marker guidelines, creating regen pockets to promote species diversity and Sugar Maple regen. Sugar Maple advanced regeneration should try to be avoided as not to damage. No operations should take place within the adjacent stand 14 during harvest.

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

Acceptable Northern Hardwood species
Regen:

Other
Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

20	41169020-Cut	10.3	4110 - Sugar Maple Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Single-Tree selection: Mark stand down to an average of 80BA, following the Complete Marker guidelines, creating regen pockets to promote species diversity and Sugar Maple regen. Sugar Maple advanced regeneration should try to be avoided as not to damage. Winter harvest only sue to access.

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

Acceptable Northern Hardwood species
Regen:

Other Mark cut trees in any color except Orange as past marking is still present.
Comment:

Site Condition: Road Needed

Proposed Start Date: 10/1 /2023

21	41169021-Cut	17.8	4110 - Sugar Maple Association	Sawtimber Medium	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Single-Tree selection: Mark stand down to an average of 80BA, following the Complete Marker guidelines, creating regen pockets to promote species diversity and Sugar Maple regen. Sugar Maple advanced regeneration should try to be avoided as not to damage. Winter Harvest only due to access.

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

Acceptable Northern Hardwood species
Regen:

Other
Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2023

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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 41169040-Cut	7.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Single-Tree selection: Mark stand down to an average of 80BA, following the Complete Marker guidelines, creating regen pockets to promote species diversity and Sugar Maple regen. Sugar Maple advanced regeneration should try to be avoided as not to damage.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Northern Hardwood species</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
46 41169046-Cut	222.3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Single-Tree selection: Mark stand down to an average of 80BA, following the Complete Marker guidelines, creating regen pockets to promote species diversity and Sugar Maple regen. Sugar Maple advanced regeneration should try to be avoided as not to damage.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Northern Hardwood species</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 410.1

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 169
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions								
		With Condition	Not Available		2B	2E	2I	2G	3J	5A	5E	
67	58	0	10	Cedar					10			
3	3	0	0	Herbaceous Openland								
292	2	0	291	Lowland Conifers				200	14	77		
50	50	0	0	Lowland Deciduous								
39	39	0	0	Lowland Mixed Forest								
29	29	0	0	Lowland Shrub							0	
61	53	0	8	Marsh					8			
69	65	0	5	Mixed Upland Deciduous					5			
765	584	179	2	Northern Hardwood	18	32	129		2			
1	1	0	0	Upland Spruce/Fir								
1,377	883	179	316	Total Forested Acres	18	32	129	200	38	77	0	
	64%	13%	23%	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	2G: Too wet (sensitive soils, does not include access issues)	200	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5A: Not able to obtain desirable regeneration	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments: At this time we are unable to regenerate the stand naturally with out losing the Cedar component of the stand.							
3	Available	2E: Road needed	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner : Examiner

Compartment: 169
 Year of Entry: 2024

4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2E: Road needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2E: Road needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2I: Survey needed	122	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2I: Survey needed	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	39	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
1	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	3.2	15	Immature	N/A	Stand was cut 15-16 yrs ago. Stand is fully stocked with deciduous saplings.																																																															
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2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	18.7	70	81-110	N/A	Stand was sold and they partially harvested 15-16yrs ago but pulled out due to weather conditions, only about 1/6 of the stand cut.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
6	6229 - Mixed lowland shrub	Nonstocked	4.3	0	Unspecified	613 - Lowland Mixed Forest	cut within the Entry of 2012.																																																							
7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.9	82	51-80	N/A	41-026-14-01 unit 1. Large "pocket" was cut to create regen gap within the stand. Regeneration is just starting to return, look for regen status during next inventory cycle.																																																							
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8	6239 - Mixed Emergent Wetland	Nonstocked	34.9		Unspecified	No	Small patches of trees present scattered throughout area.																																																							
9	6229 - Mixed lowland shrub	Nonstocked	8.9	0	Unspecified	613 - Lowland Mixed Forest	41-026-14-01 unit 2. Small amount of regen present, check on regeneration status next inventory cycle (2032). Retention patch located NW part of stand.																																																							
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13	4110 - Sugar Maple Association	Sawtimber Well	13.0	78	111-140	N/A	Pockets of Sugar Maple regen present.																																																			
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14	3102 - Grass	Nonstocked	1.7		Unspecified	No	Small grass opening, with apple and Cherry trees.																																																			
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.1	78	111-140	N/A																																																				
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16	4110 - Sugar Maple Association	Sawtimber Well	121.7	80	111-140	N/A	Thinned 15-16 yrs ago, good HM regen. Basal area is on the lower end of the BA range. However canopy gaps are starting to close in around full regeneration growth.																																																			
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17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	72.2	78	81-110	N/A	Stand was thinned 15- 16 years ago. Thinned pretty hard last harvest, basal area is on the lower end of range, good regen crop of maple filling in canopy gaps. West "40" is very hilly and contains many areas of seeps.																																																			
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18	629 - Mixed non-forested wetland	Nonstocked	13.2		Immature	No																																																				
19	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	213.7	79	51-80	N/A	Wet, many seeps empty into the stand with pockets of straight Birch and Cedar. Stands contains Spray Creek headwaters.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	4110 - Sugar Maple Association	Sawtimber Well	10.3	78	111-140	N/A	Pockets of HM regen already present.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		80	Log	12	78	Sugar Maple	Medium	< 5 feet	Tall Shrub
Red Maple		20	Log	10		Balsam Fir	Low	< 5 feet	Tall Shrub
21	4110 - Sugar Maple Association	Sawtimber Medium	17.8	78	111-140	N/A	Nice HM regen, thinned 15-16 years ago. Basal area is on the lower end of the BA range. However canopy gaps are starting to close in around full regeneration growth.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log	12		Red Maple	Medium	< 5 feet	Tall Shrub
Black Cherry		10	Log	12		Sugar Maple	High	< 5 feet	Tall Shrub
Sugar Maple		80	Log	12	78				
22	6120 - Lowland Cedar	Poletimber Well	28.5	80	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	8		Northern White Cedar	High	5 - 10 feet	Tall Shrub
Hemlock		5	Log	10					
Northern White Cedar		90	Pole	5	80				
23	4110 - Sugar Maple Association	Sawtimber Well	61.7	78	81-110	N/A	Awesome HM regen. Thinned 15-16 years ago. basal area is on the lower end of range. Stand was harvested pretty aggressively last time. Stand is on slope with the road at the bottom being a winter only use road.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		85	Log	11	78	Sugar Maple	High	10 - 20 feet	Tall Shrub
Red Maple		10	Log	10		Balsam Fir	Low	5 - 10 feet	Tall Shrub
Yellow Birch		5	Log	14		Red Maple	Low	5 - 10 feet	Tall Shrub
24	4199 - Other Mixed Upland Deciduous	Sapling Well	9.5	15	Immature	N/A	Clear-cut 15-16 yrs ago, Wet inclusions of cedar cut along with the rest but not regenerating back to Cedar.		
Canopy Species		% Cover	Size Class	DBH	Age				
Paper Birch		10	Sapling	1					
Balsam Fir		10	Sapling	1					
Balsam Poplar		30	Sapling	2	15				
Red Maple		30	Sapling	2	15				
Sugar Maple		20	Sapling	2					
25	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	38.7	15	Immature	N/A	Stand was clear cut 15-16 yrs ago, very nice Cedar regen with over 300 trees/ ac on the eastside. Other deciduous species are filling in stand with largely saplings filling in stand.		
Canopy Species		% Cover	Size Class	DBH	Age				
Northern White Cedar		20	Sapling	1	15				
Red Maple		10	Sapling	3	15				
Bigtooth Aspen		40	Sapling	3	15				
White Spruce		10	Sapling	3					
Balsam Fir		20	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6118 - Lowland Deciduous with Cedar	Poletimber Well	2.4	60	51-80	N/A	Pockets of pure Birch and Cedar within stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Log	10		Balsam Fir	
Paper Birch		30	Pole	8		Northern White Cedar	
White Spruce		5	Log	10		Red Maple	
Northern White Cedar		30	Pole	8			
Red Maple		30	Pole	8	60		
						Density	Avg. Height
						High	< 5 feet
						Medium	< 5 feet
						Medium	< 5 feet
							Size
							Tall Shrub
							Tall Shrub
							Tall Shrub
27	42360 - Upland Cedar	Sawtimber Well	28.9	75	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Log	10		Northern White Cedar	
Northern White Cedar		60	Log	10	75	Hemlock	
Hemlock		5	Log	10			
Paper Birch		30	Log	10			
						Density	Avg. Height
						High	< 5 feet
						Low	< 5 feet
							Size
							Tall Shrub
							Tall Shrub
28	6229 - Mixed lowland shrub	Nonstocked	3.0	0	Unspecified	613 - Lowland Mixed Forest	Cut last entry 41-026-14-01 unit 9. Only regen present is red maple stump sprouts.
29	4190 - Mixed Upland Deciduous with Cedar	Sapling Well	3.9	15	Immature	N/A	Clear-cut 15-16 yrs ago full of regen.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		25	Sapling	3	15		
Bigtooth Aspen		25	Sapling	3			
Northern White Cedar		25	Sapling	1			
Sugar Maple		25	Sapling	3	15		
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.1	78	51-80	N/A	41-026-14-01 unit 6, Sale Closed.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		25	Pole/Log	9		Balsam Fir	
Red Maple		60	Log	12	78		
Beech		5	Log	14			
Black Cherry		10	Log	14			
						Density	Avg. Height
						Medium	5 - 10 feet
							Size
							Tall Shrub
31	6239 - Mixed Emergent Wetland	Nonstocked	10.9		Unspecified	No	
32	6120 - Lowland Cedar	Poletimber Well	2.6	70	111-140	N/A	Nice pole stand of Cedar, with creek that runs the length through the middle of the stand
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		75	Pole	6	70		
Red Maple		10	Pole	6			
Balsam Fir		15	Pole	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.6	80	51-80	N/A	Cut last entry, 41-026-14-01 unit 10. Some RM stump sprouts are popping up.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	30	Log	10		Red Maple	High	< 5 feet	Sapling
Red Maple	60	Log	10	80	Beech	Low	< 5 feet	Tall Shrub
Beech	5	Pole	8		White Spruce	Medium	< 5 feet	Tall Shrub
Hemlock	5	Log	10		Balsam Fir	Medium	< 5 feet	Tall Shrub
					Hemlock	Medium	< 5 feet	Tall Shrub

34	6239 - Mixed Emergent Wetland	Nonstocked	4.5		Unspecified	No	
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35	6113 - Lowland Maple	Poletimber Medium	11.0	55	51-80	N/A	Seep running through stand, this stand acts as its buffer .
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole	8		Balsam Fir	Medium	< 5 feet	Tall Shrub
American Elm	5	Pole	6					
Yellow Birch	10	Pole/Log	8					
Balsam Fir	10	Pole	8					
Northern White Cedar	10	Log	12					
Red Maple	50	Pole	6	55				
Black Ash	5	Pole	6					

36	6120 - Lowland Cedar	Poletimber Poor	7.3	80	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	100	Pole	5	80

37	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	15.4	60	51-80	N/A	Pockets of pure P Birch and Cedar along edges.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole	8	60	Balsam Fir	High	< 5 feet	Tall Shrub
Paper Birch	30	Pole	8		Northern White Cedar	Medium	< 5 feet	Tall Shrub
White Spruce	5	Log	10		Red Maple	Medium	< 5 feet	Tall Shrub
Balsam Fir	5	Log	10					
Northern White Cedar	25	Log	10					

38	4110 - Sugar Maple Association	Sawtimber Well	30.6	78	81-110	N/A	Cut last entry 41-026-14-01 unit 8. SM regen covering ground as seedlings
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log	14	78	Sugar Maple	Full	< 5 feet	Seeding
Red Pine	15	Log	14					
Ironwood	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 77.2 90 81-110 N/A Seeps run through stand towards the North on the east and west sides.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log	10		Hemlock	Medium	< 5 feet	Tall Shrub
Yellow Birch	10	Log	14		Balsam Fir	Medium	< 5 feet	Sapling
Northern White Cedar	30	Log	10					
White Spruce	10	Log	12					
Hemlock	40	Log	12	90				

40 4112 - Maple, Beech, Cherry Association Sawtimber Well 7.0 78 111-140 N/A Thinned 20 years ago. Basal area is on the lower end of the BA range. However canopy gaps are starting to close in around full regeneration growth.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log	14	78	Red Maple	Low	5 - 10 feet	Tall Shrub
Beech	5	Log	14		Beech	Low	5 - 10 feet	Tall Shrub
Red Maple	30	Log	14		Balsam Fir	Low	5 - 10 feet	Tall Shrub
Yellow Birch	5	Log	10					

41 6239 - Mixed Emergent Wetland Nonstocked 6.4 Unspecified No

43 4111 - S.Maple, Hard Mast Association Sawtimber Well 127.2 78 51-80 N/A Cut last entry, 41-026-14-01 units 11-13. Regen is starting to come in nicely.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log	12	78	Sugar Maple	High	< 5 feet	Tall Shrub
Red Maple	15	Log	14		Red Maple	Medium	< 5 feet	Tall Shrub
Yellow Birch	5	Log	14					
Basswood	5	Log	10					
Beech	15	Log	10					

45 6129 - Mixed Coniferous Lowland Forest Poletimber Well 1.3 70 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	45	Pole	8	70
White Pine	10	Log	14	
Black Spruce	45	Pole	8	

46 4111 - S.Maple, Hard Mast Association Sawtimber Well 222.3 78 111-140 N/A Thinned 15-16 years ago. Basal area is on the lower end of the BA range. However canopy gaps are starting to close in around full regeneration growth.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	10	Log	10		Red Maple	High	< 5 feet	Tall Shrub
Hemlock	2	XLog	18		Beech	Medium	< 5 feet	Tall Shrub
Sugar Maple	70	Log	12	78				
Basswood	8	Log	14					
Red Maple	10	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
47	42310 - Planted Spruce	Poletimber Well	1.0	29	51-80	N/A	Planted White Spruce, was an opening.																				
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48	3102 - Grass	Nonstocked	1.4		Unspecified	No	Starting to fill in with SM regen.																				
49	6233 - Wet Meadow	Nonstocked	1.8		Unspecified	No																					
50	6233 - Wet Meadow	Nonstocked	2.2		Immature	No	Depressions with grass growing in low areas that seasonally fill with water, surrounded by steep slopes with older hemlock.																				
52	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	0.2	70	81-110	N/A																					
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