



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45041

Entry Year 2025

Acreage: 2,188

County Chippewa

Management Area: Rudyard Silty Lake Plain

**Stand Examiner:** Kenny Fanelli

## Legal Description:

T45N-R1W, Sections 13-16,21,22 & 26-28

## Identified Planning Goals:

Timber and wildlife are the main objectives within this compartment. This compartment has a large variety of forest types which provides a continuous flow of timber while also meeting wildlife management goals. The majority of the prescriptions scheduled for this year of entry will focus on selective hardwood and oak management with a few clearcuts mixed in as well.

## Soil and topography:

Soils include Markey-Kinross-Croswell poorly drained muck and sand, Markey-Dawson poorly drained muck, and Kalkaska-Rubicon well drained sand. There is also an area of Alcona-Ingalls-Manistee, deep, moderately drained, sand on outwash plains. Topography is generally rolling to flat with swampy lowland and a few oak ridges. There are a large area of wetland within the compartment within the northwest corner.

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

This compartment ties into a large area of State land to the north and west. 80 acres was acquired by the state in 2023 which connected the northern portion of the compartment. One inholding exists in the southern part of the compartment and the State owns 40 acres off of the east side of Gaines Highway. A few private cabins exist either within or next to the compartment.

## Unique Natural Features:

The Kinross Hemlock SCA is unique especially for this area.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

No special management planned for this year of entry.

## Watershed and Fisheries Considerations:

The Little Munuscong River, a designated trout stream, flows through this compartment. Prescribed treatments are appropriate for the protection of this waterbody.

## Wildlife Habitat Considerations:

This compartment is part of the Rudyard Silty Lake Plain Management Area. It is in the transition between a sandy outwash plain to the south and clay lake plain to the north. It contains a mix of types ranging from oak and northern hardwoods to lowland conifers and bog. Oak is common in the southern part of the compartment where sandy soils dominate. North of this area, lowland stands that include cedar, black spruce, and tamarack dominate. This area is similar to parts of the adjacent compartment to the west. Hemlock is also common in some locations, particularly in the transition zone between uplands and lowlands. Aspen stands are near hardwoods in the northeast and south ends. Ponds and stream corridors as well as bog and marshy areas provide habitat for numerous wetland wildlife including beaver; a number of beaver ponds are located particularly on the west side of the compartment. Wildlife objectives in this compartment focus on providing age class and structural diversity in upland stands, and encouraging production of hard mast. Some hardwoods will be treated to encourage growth near the ground level and improve diversity while also retaining potential nesting trees for hawks. Some aspen stands will be treated to enhance the age class diversity between stands for deer, ruffed grouse, and other species. Oak will generally be favored to encourage acorn production for deer and bear. Regenerating some lowland conifer stands will provide habitat for snowshoe hare. The integrity of wetlands and waterbodies will be protected by applying appropriate buffers.

## 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. Multiple active sand/gravel operations exist in the vicinity, and there is a market/demand for aggregates in the area. There appears to be good potential for sand within the compartment on the uplands. Potential for other non-metallic minerals is considered low.

**Vehicle Access:**

The east block of this compartment has good access via. M-129. The west block has good access via. M-80 from the south. Old Mackinaw Trail off of Gaines highway provides decent access but is gated to prohibit road degradation due to wet ground.

**Survey Needs:**

A survey is needed for stand 33 and the northwest corner of stand 41.

**Recreational Facilities and Opportunities:**

There are several developed facilities for recreation within this compartment. The Kinross Motorcycle trails is located in stands from the southeast through the northerwestern part of the compartment. If possible, do not cut trees with trail markers on them. If necessary to cut, then cut above the marker. There are also three snowmobile trails 472, 494, and 49 in or immediately adjacent to the compartment boundary. The Old Mackinaw trail is designated snowmobile trail #49. Hunting is a primary use within this compartment for grouse, gray squirrels, deer and hare.

**Fire Protection:**

Access to a fire within this compartment would be good in the southernmost and east part of the compartment. Access would be poor in the northwest corner due to wet ground. Structure protection might be a concern with a few of the cabins that exist. Dukes Lake would be the best water source for fires in the southern area.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

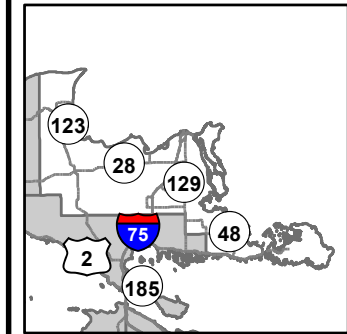
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

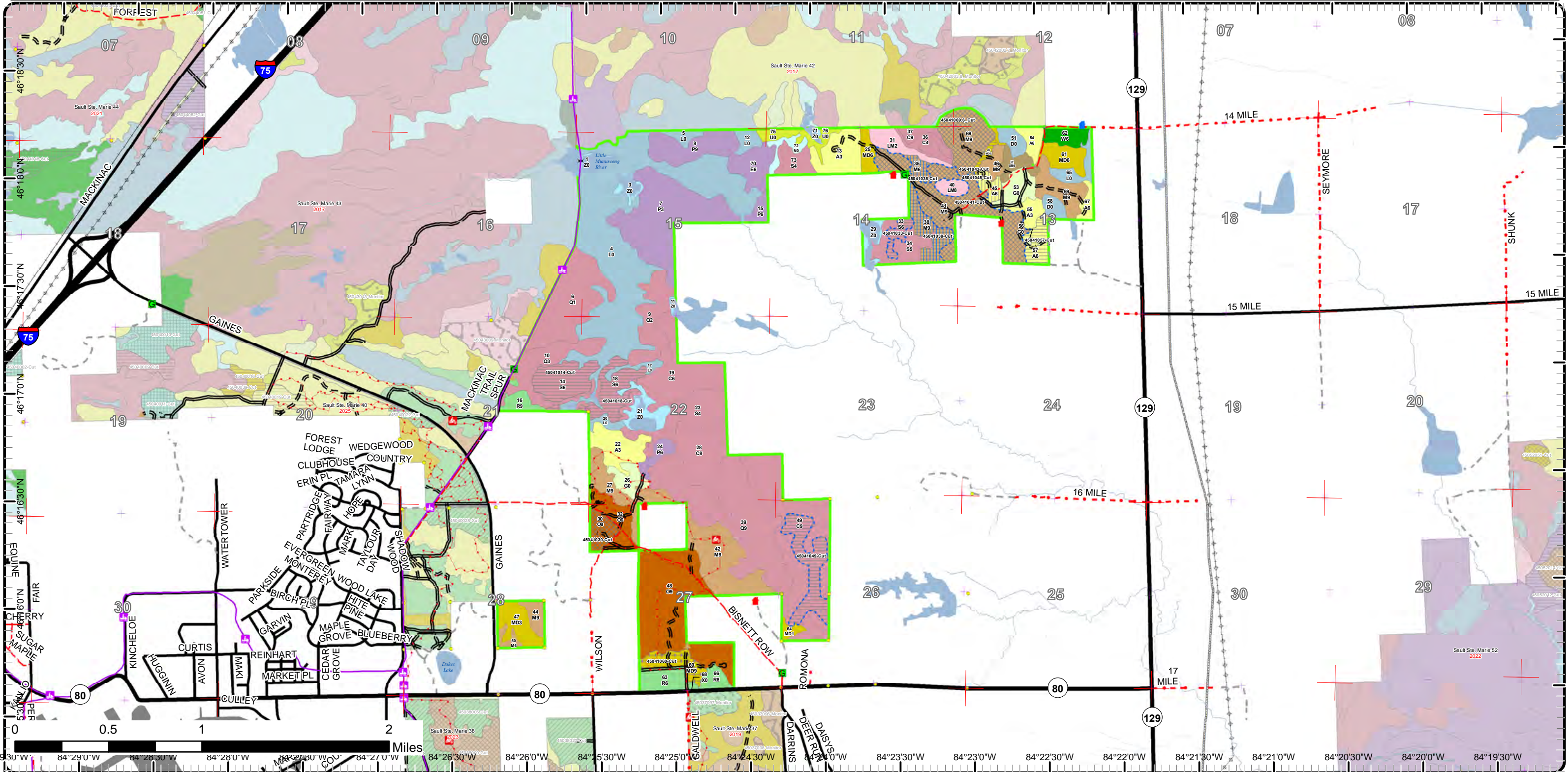
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 41  
 T45N, R01W, Sec: 11-16, 21, 22, 26, 27  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Rudyard Silty Lake Plain  
 YOE: 2025  
 Acres: 2188.2 GIS Calculated  
 Examiner: Kenny Fanelli  
 Map Revised: 8/2/2023  
 Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
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- Private - Dirt / Gravel Road
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- Snowmobile Trails
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- Berms
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- Lake/Pond
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- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

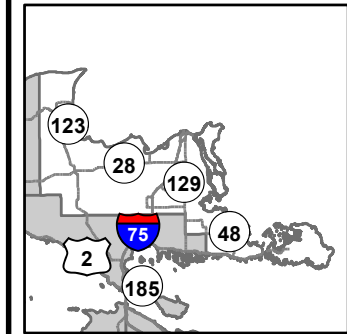


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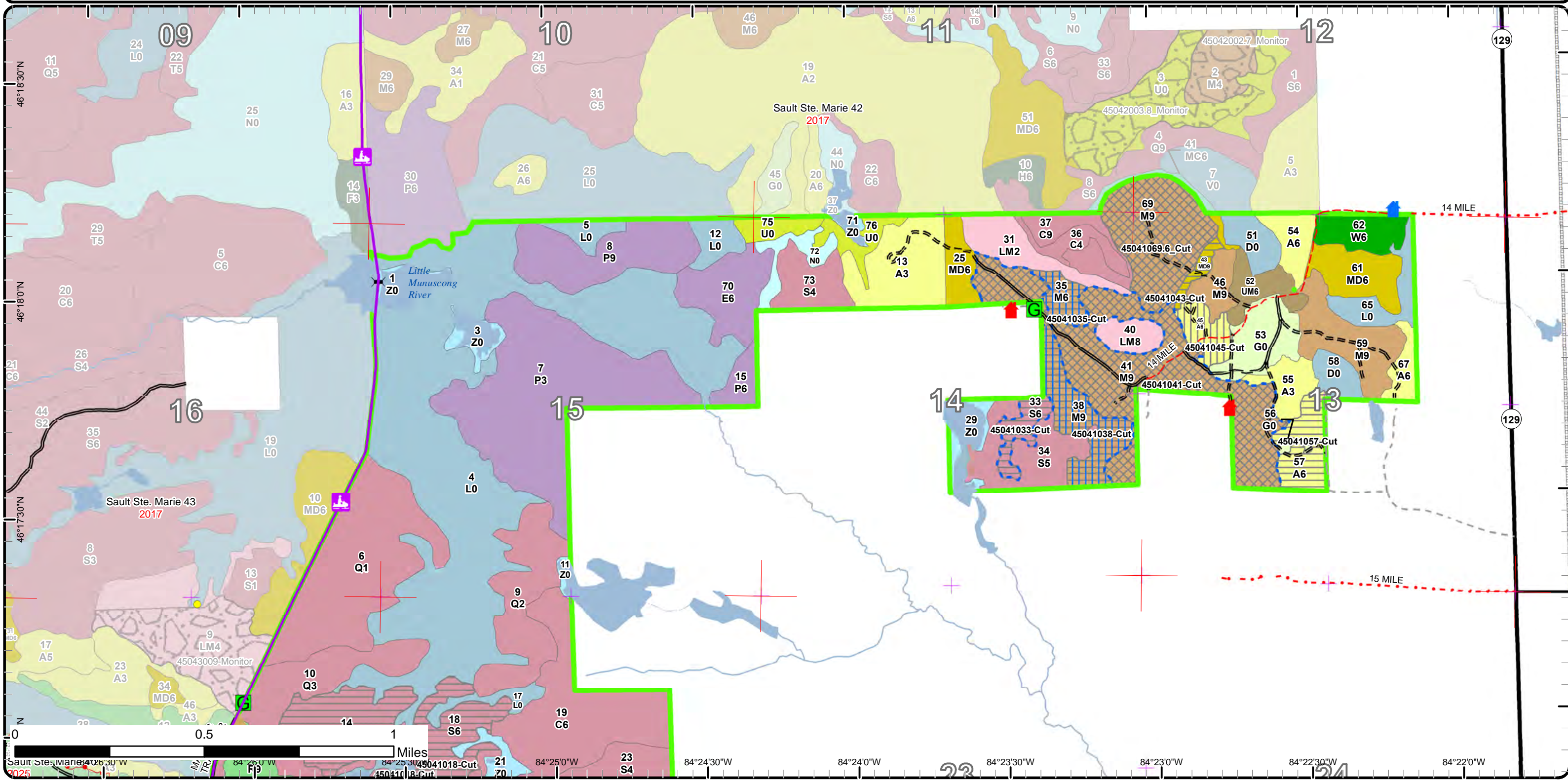
84°29'30"W 84°29'0"W 84°28'30"W 84°28'0"W 84°27'30"W 84°27'0"W 84°26'30"W 84°26'0"W 84°25'30"W 84°25'0"W 84°24'30"W 84°24'0"W 84°23'30"W 84°23'0"W 84°22'30"W 84°22'0"W 84°21'30"W 84°21'0"W 84°20'30"W 84°20'0"W 84°19'30"W

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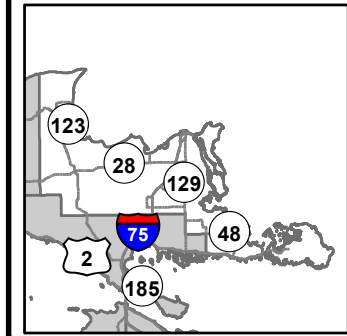


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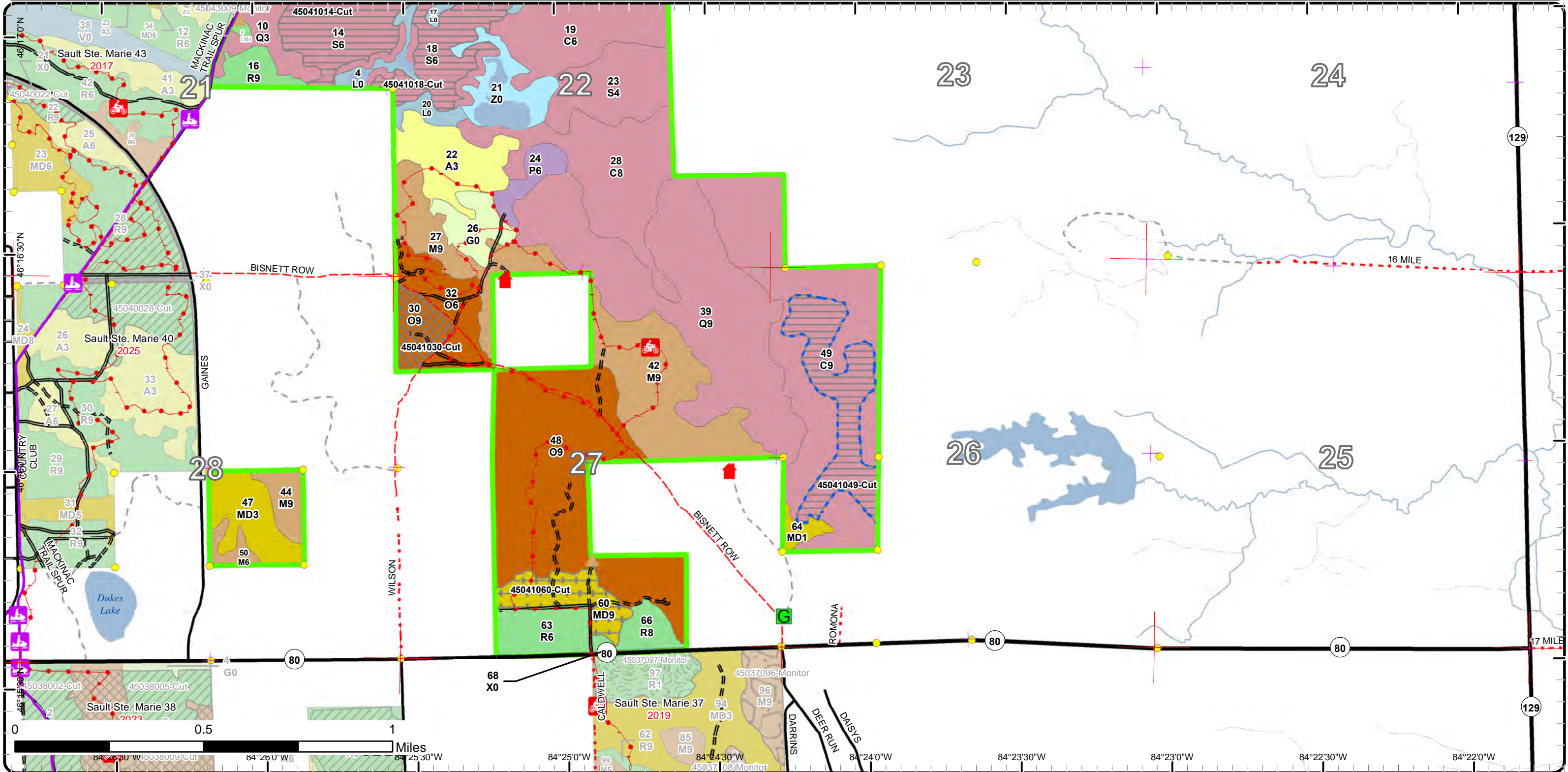


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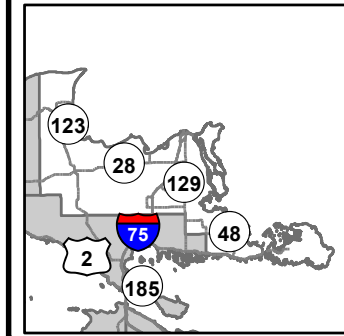


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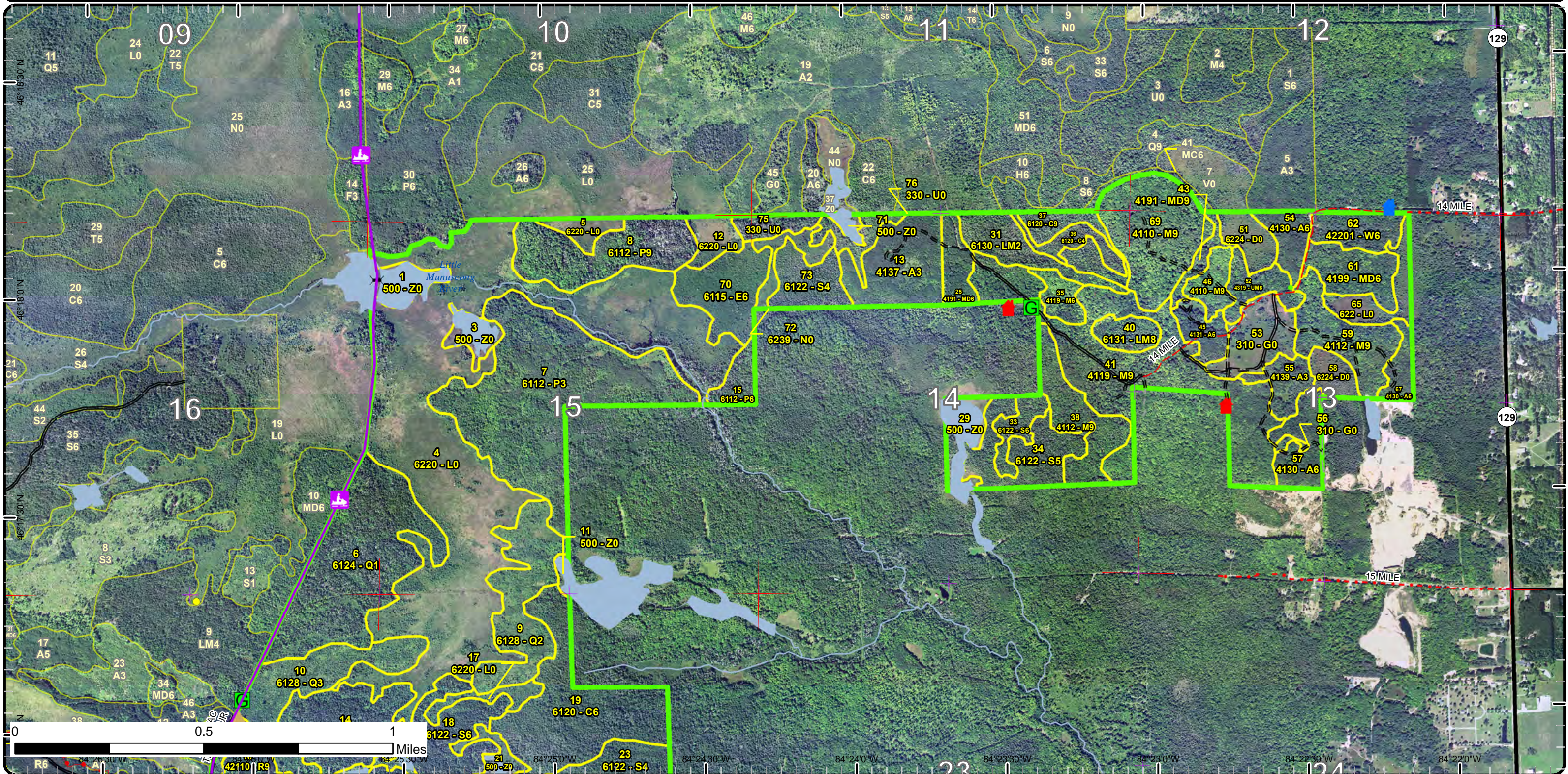


# Stand Boundary Map

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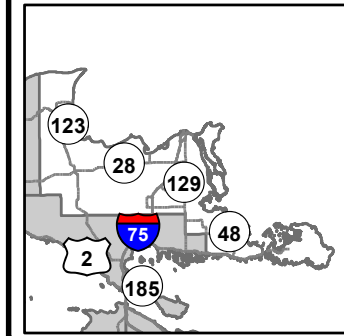


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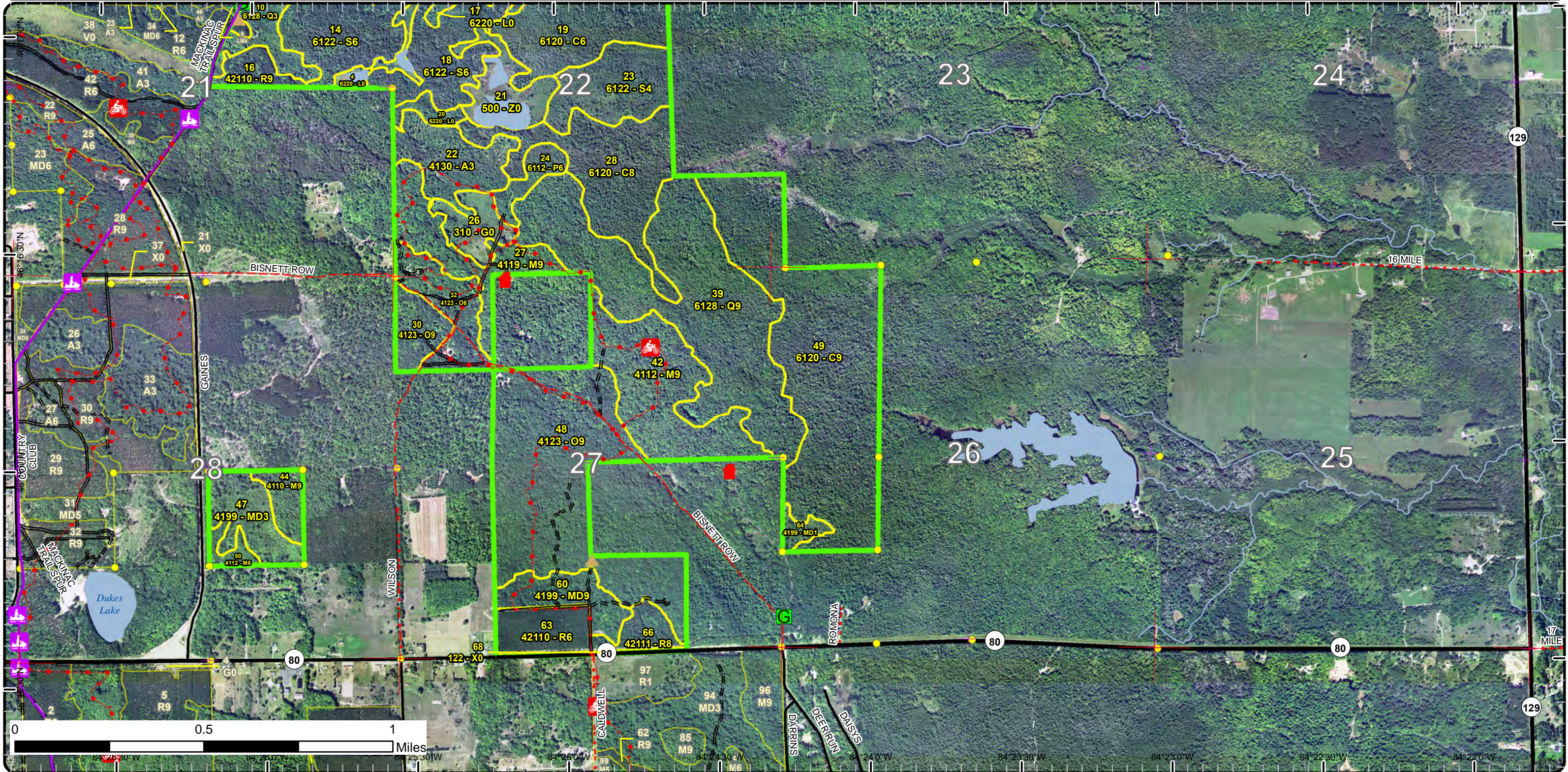


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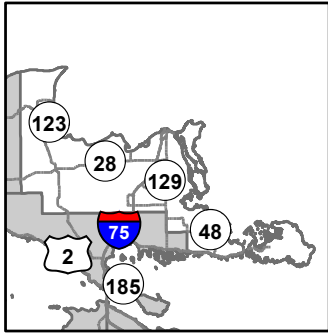


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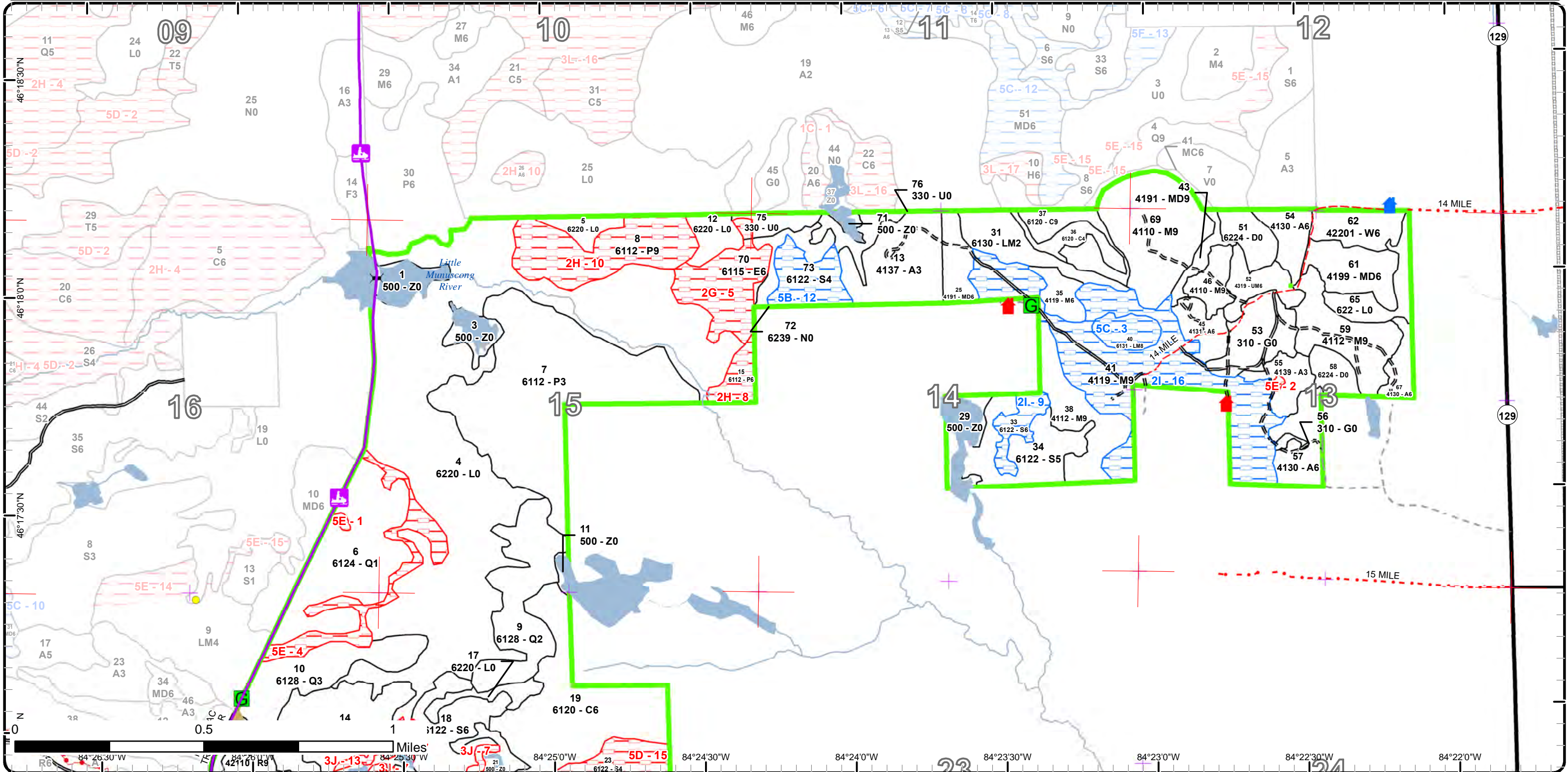


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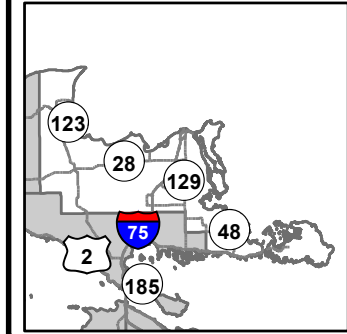
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- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Stand Boundaries
- Cold Water Streams
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- 2I: Survey needed
- 5B: Maintain for regeneration purposes



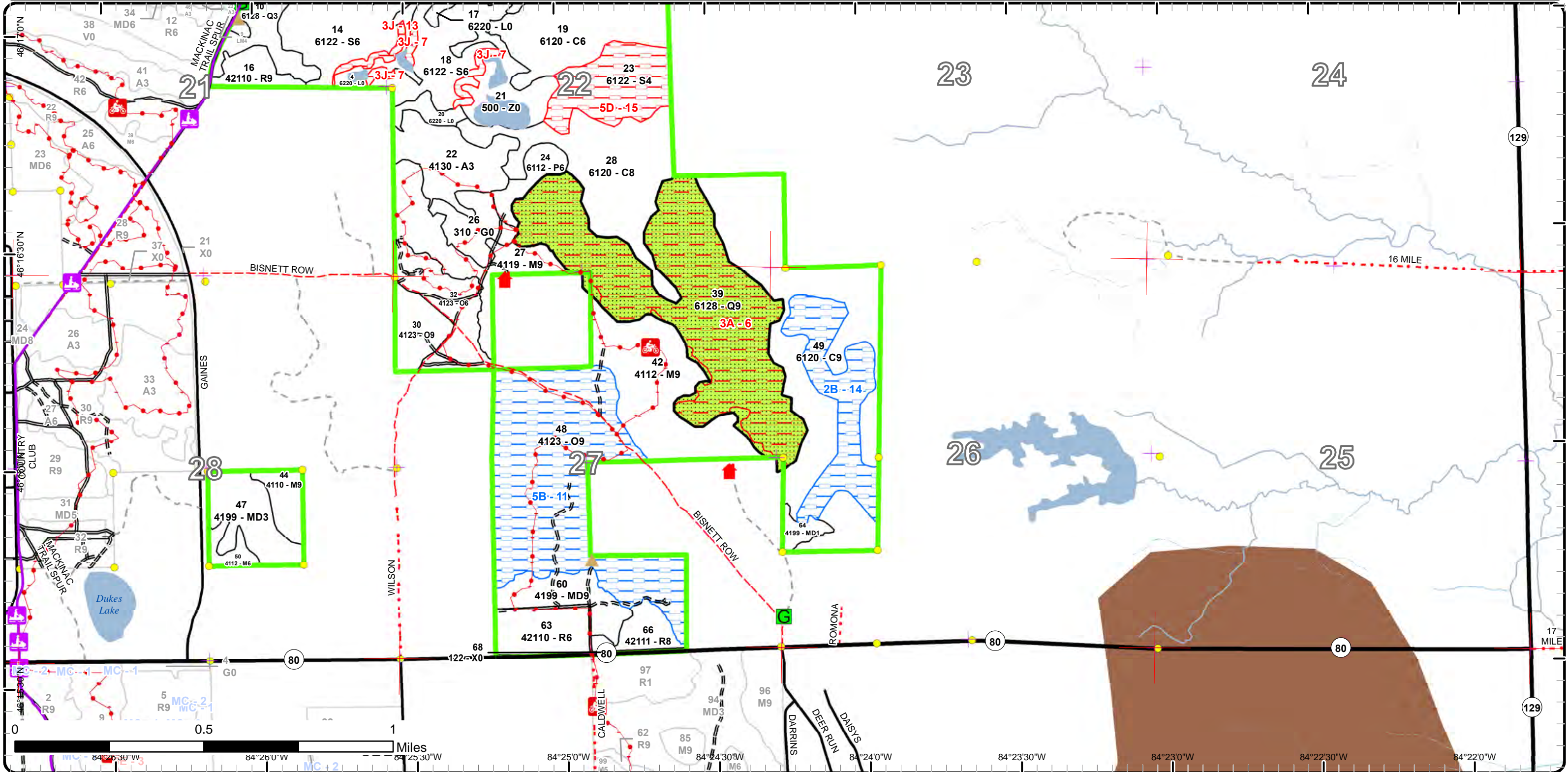


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- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range
- Possible Type 2 Old Growth



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+	Unseen-Aged	Total
Aspen	0	11	31	33	18	27	0	0	0	0	0	0	0	0	0	0	0	0	120
Cedar	0	0	0	0	0	0	0	0	9	77	0	148	0	63	0	0	0	0	295
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	0	122	0	0	8	0	0	0	0	0	0	0	0	0	40	170
Lowland Conifers	0	79	0	82	0	0	0	0	0	0	0	0	0	0	0	0	0	140	301
Lowland Deciduous	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	27
Lowland Mixed Forest	0	0	0	0	18	0	0	0	0	0	0	0	9	0	0	0	0	0	27
Lowland Shrub	299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	299
Lowland Spruce/Fir	0	0	0	0	0	0	0	28	80	9	52	0	0	0	0	0	0	0	169
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	29	0	30	0	21	0	0	5	0	0	0	0	0	0	0	0	85
Northern Hardwood	0	0	0	0	0	0	6	8	0	194	45	63	0	0	0	0	0	0	316
Oak	0	0	0	0	0	27	0	0	0	0	15	126	0	0	0	0	0	0	168
Red Pine	0	0	0	21	0	0	0	22	0	0	0	0	0	0	0	0	0	0	43
Treed Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Mixed Forest	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
White Pine	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
<b>Total</b>	<b>442</b>	<b>90</b>	<b>60</b>	<b>136</b>	<b>188</b>	<b>80</b>	<b>27</b>	<b>66</b>	<b>80</b>	<b>217</b>	<b>216</b>	<b>189</b>	<b>148</b>	<b>9</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>2189</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 41  
Total Compartment Acres: 2,188

Commercial Harvest - 216  
Harvests with Site Condition - 141  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Aspen	17	0	0	0	10	0	0	0	0	27
Cedar	43	0	0	0	0	0	0	0	0	43
Lowland Spruce/Fir	80	0	0	0	0	0	0	0	0	80
Mixed Upland Deciduous	4	0	0	0	0	0	21	0	0	25
Northern Hardwood	0	133	0	33	0	0	0	0	0	167
Oak	0	15	0	0	0	0	0	0	0	15
<b>Total</b>	<b>144</b>	<b>149</b>	<b>0</b>	<b>33</b>	<b>10</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>357</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	357	0	0	0	0	0	0	0	0	357
Next Step	0	0	0	0	0	0	336	0	0	336
<b>Total</b>	<b>357</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>336</b>	<b>0</b>	<b>0</b>	<b>692</b>



S t a n d	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:**

<b>14</b>	<b>45041014-Cut</b>	37.5	6122 - Black Spruce Poletimber Well	74	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No	
<p><u>Prescription</u> Clear cut all trees 2" and up. Leave all white pine and oak if present. Retention will be in buffers along the south east end where open water exists as well as mature trees along the red line. Create some brush piles along stand edges through normal processing operations if possible.</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> Moderate to fully stocked black spruce, tamarack, white pine, red maple, aspen, and balsam fir.</p> <p><u>Other Comment:</u> Looks like the private property has had their line marked blue recently. Corners are in.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

<b>18</b>	<b>45041018-Cut</b>	33.5	6122 - Black Spruce Poletimber Well	75	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No	
<p><u>Prescription</u> Cut all trees which are 2" and up at DBH. Leave any white pine that exist. Retention will be a 100' buffer for BMPs near open water along stand 21 in addition to mature trees left along the red line. Create some brush piles along stand edges through normal processing operations if possible.</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> Moderate to fully stocked black spruce, tamarack, balsam fir, red maple, and other species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

<b>30</b>	<b>45041030-Cut</b>	15.1	4123 - Red Oak Sawtimber Well	91	111-140	Harvest	Single Tree Selection	412 - Oak Types	Even-Aged	No	
<p><u>Prescription</u> Select thin to 70 BA. Promote yellow birch where possible. Remove some large oaks to create canopy gaps. Mark for operability where the stand is heavy with poles.</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> Oak, sugar maple, and yellow birch.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
<b>33 45041033-Cut</b>	9.0	6122 - Black Spruce	Poletimber Well	88		Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees 2" and up. No retention due to size. Shape and size of the treatment may vary due to wet ground and timber volumes around the edge. Expand the sale boundary wherever there is merchantable timber beyond the treatment. If the treatment becomes greater than 10 acres leave 3-10% patch retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Moderate to fully stocked black spruce, birch, red maple, fir, and white pine.</p> <p><u>Other Comment:</u> Survey needed or buffer private line. Leave brush piles during operation along the edge for wildlife habitat.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>35 45041035-Cut</b>	8.2	4119 - Mixed Northern Hardwoods	Poletimber Well	60	111-140	Harvest	Seed Tree with Retention	4119 - Mixed Northern Hardwoods	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees 2" and up. Mark 1 healthy/representative tree every 75' focusing on sugar maple, yellow birch, and basswood. Leave all hemlock and yellow birch.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Moderate to fully stocked sugar maple, yellow birch, red maple, paper birch, red oak, and basswood.</p> <p><u>Other Comment:</u> Retain the seed trees for structural diversity.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>38 45041038-Cut</b>	25.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	80	111-140	Harvest	Seed Tree with Retention	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees that are 2 inches and up except yellow birch, sugar maple, hemlock, and white pine.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Moderate to fully stocked red maple, sugar maple, yellow birch, white pine, hemlock, and balsam fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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<b>41</b>	<b>45041041-Cut</b>	89.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Two-Aged	No
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Prescription Thin stand to 50-70 BA. Thin heavier in the areas of low quality and lighter in areas of higher quality trees. Create 1 regeneration gap for every 2 acres using MWR guidance for size. Focus gaps in areas where advanced regeneration already exists. Cut all balsam fir and all aspen 2" and up. Some areas may have lower BA because of the density of balsam fir or aspen.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Any mix of sugar maple, red maple, red oak, and yellow birch.  
Regen:

Other Don't cut any hemlock if it exists.

Comment: If possible, encourage scarification during normal operations to encourage hemlock regeneration.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

<b>43</b>	<b>45041043-Cut</b>	4.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	81	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Cut all trees 2" and up. Small stand but leave retention next to the wetland. Leave white pine over 16".  
Specs:

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

Acceptable Moderate to fully stocked spruce, pine, sugar maple, red maple, aspen, birch, and balsam fir.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>45</b>	<b>45041045-Cut</b>	10.3	4131 - Aspen, Oak	Poetimber Well	46	111-140	Harvest	Shelterwood with Retention	4121 - Oak, Aspen	Two-Aged	No
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Prescription Cut all species 2" or more at DBH except oak. Thin oak where necessary for operability. Leave 3-5 white pine per acre where present.  
Specs:

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

Acceptable Any mix of aspen, oak, spruce, white pine, red maple, or sugar maple.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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<b>49</b>	<b>45041049-Cut</b>	42.9	6120 - Lowland Cedar	Sawtimber Well	116		Harvest	Clearcut with Retention	6120 - Lowland Cedar	Even-Aged	No
<p><u>Prescription</u> Clear cut all species 2" and up except yellow birch, hemlock, and white pine. Retention will be the excluded species and the remainder of the stand. Winter harvest only due to wet ground. Treatment shape and size may vary from the original due to wet ground.</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> Moderate to fully stocked cedar, tamarack, spruce, fir, red maple, yellow birch, paper birch, BAM, white pine, and hemlock.</p> <p><u>Other Comment:</u> Access through private is unknown at this time.</p> <p>Run the red line primarily around the hills/knobs which contain maple, tamarack, birch, spruce/fir and bam. Connect these areas with a 300' strips through the cedar dominated areas. Avoid wetter, open areas.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

<b>57</b>	<b>45041057-Cut</b>	16.7	4130 - Aspen	Poletimber Well	41		Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees which are 2" and up at dbh. 3-10% retention in patches.</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> Fully stocked aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

<b>60</b>	<b>45041060-Cut</b>	20.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	56	81-110	Harvest	Overstory Removal	4123 - Red Oak	Even-Aged	No
<p><u>Prescription</u> This harvest will remove the large mature oaks which acted as seed trees in a prior harvest.</p> <p><u>Specs:</u> Mark large oak trees, thinning between them for operability. Remove all aspen. Thin pole sized trees to 70 BA for operability or in areas of high basal area. Leave some of the large oaks which are wolfy and unmerchantable. BA may be lower where there is a lot of aspen.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
69 45041069.6_C ut	44.4	4110 - Sugar Maple Association	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 70 BA. Thin from above where possible and enlarge existing gaps that already contain regeneration. Don't cut underrepresented species. Create a 1 regeneration gap for every 2 acres using MWR guidance for size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen should be maple, birch, hemlock, cherry and possibly some white pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										

Total Treatment Acreage Proposed: **356.5**



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 41

Kenny Fanelli : Examiner

Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		2B	2I	5B	5C	2G	2H	3A	3J	5D	5E	
120	120	0	0	Aspen											0
191	148	43	0	Cedar	43										
37	37	0	0	Herbaceous Openland											
16	15	0	1	Low-Density Trees					1						
170	122	0	48	Lowland Aspen/Balsam Poplar						48					
300	137	0	163	Lowland Conifers							140				23
27	1	0	26	Lowland Deciduous					26						
27	18	9	0	Lowland Mixed Forest				9							
299	299	0	0	Lowland Shrub				0							0
169	98	26	44	Lowland Spruce/Fir		9	17					10	35		
9	9	0	0	Marsh											
85	85	0	0	Mixed Upland Deciduous											
317	228	89	0	Northern Hardwood			89				0				
168	42	126	0	Oak			126								
43	43	0	0	Red Pine											
19	19	0	0	Treed Bog											
12	12	0	0	Upland Mixed Forest											
2	2	0	0	Urban											
59	59	0	0	Water											
14	14	0	0	White Pine											
2,084	1,507	293	284	Total Forested Acres	43	98	143	9	28	48	140	10	35	24	
	72%	14%	14%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 41

Year of Entry: 2025

2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2G changed to 5C. Good dbh and BA. Review in 2027 for treatment. Wet and Low quality							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer left along the wetland for retention and BMP purposes.							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	28	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very wet stand with little productivity.							
6	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	140	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very unique stand for the Sault unit. Old growth hemlock with other mixed conifer and deciduous throughout. Ground is wet in some locations							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffers for open water wetlands.							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 41

Year of Entry: 2025

8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut if adjacent landowner cuts their property. No access anywhere near this stand from both state and private at the time being.							
9	<b>Available</b>	<b>2I: Survey needed</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	126	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 41

Year of Entry: 2025

14	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>2I: Survey needed</b>	89	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey needed for the NW side of Stand 41 and for stand 33.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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## 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.

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	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	500 - Water	Nonstocked	10.7			No																																													
3	500 - Water	Nonstocked	8.2			No																																													
4	6220 - Alder/willow	Nonstocked	257.8			No																																													
5	6220 - Alder/willow	Nonstocked	6.9			No																																													
6	6124 - Lowland Spruce-Fir	Sapling Poor	78.7	5	Immature	N/A	Stand is regenerating slowly due to low ground throughout. Aspen and red maple are coming in pretty well on the upland ridges.																																												
<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>Paper Birch</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>12</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>48</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	10	Sapling	1		Balsam Fir	20	Sapling	1		Quaking Aspen	10	Sapling	1		Red Maple	12	Sapling	1		Black Spruce	48	Sapling	1	5	<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>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub	Stand was cut in 2018 as part of Old Mack Mix.									
Canopy Species	% Cover	Size Class	DBH	Age																																															
Paper Birch	10	Sapling	1																																																
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Sub-Canopy Species	Density	Avg. Height	Size																																																
Tag Alder	Medium	Variable	Tall Shrub																																																
7	6112 - Lowland Aspen	Sapling Well	111.2	32	Immature	N/A	Aspen is decent quality but not the best. Slower growing due to low ground. There are many open areas throughout. Stand was cut from '86 to '96 therefore ages vary.																																												
<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>Black Spruce</td> <td>2</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>30</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>53</td> <td>Sapling</td> <td>3</td> <td>32</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	2	Sapling	3		Red Maple	30	Sapling	3		Balsam Poplar	5	Sapling	2		Balsam Fir	10	Sapling/Pole	4		Quaking Aspen	53	Sapling	3	32	<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>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub	Red Maple	Low	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																															
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Balsam Fir	Medium	Variable	Sapling																																																
8	6112 - Lowland Aspen	Sawtimber Well	40.0	85	81-110	N/A	Edge inventory in 2023 due to poor winter. Large mature aspen and red maple with balsam fir.																																												
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Canopy Species	% Cover	Size Class	DBH	Age																																															
White Spruce	5	Log	12																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	40.2	22	Immature	N/A	Regeneration is good in the higher ridges but there is mostly just tag alder in the lower spots. Regen is a mixed bag of tamarack, spruce, fir, birch, aspen, and red maple. Cut in 2001.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Sapling	2	
Tamarack	17	Sapling	2	
Black Spruce	15	Sapling	2	
Balsam Fir	30	Sapling	2	22
Quaking Aspen	10	Sapling	2	
Red Maple	23	Sapling	2	22

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	Variable	Tall Shrub
Red Maple	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

10	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	41.6	22	Immature	N/A	OI notes say clear cut was completed in 2001. Stand has regenerated back nicely to a mix of species.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	30	Sapling	1	22
White Pine	5	Sapling	2	
Tamarack	20	Sapling	2	
Red Maple	15	Sapling	1	
Quaking Aspen	20	Sapling	1	22
Balsam Fir	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Quaking Aspen	Medium	Variable	Sapling

11	500 - Water	Nonstocked	2.1			No	
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12	6220 - Alder/willow	Nonstocked	8.8		Unspecified	No	
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13	4137 - Aspen, Birch	Sapling Well	33.3	20	Immature	N/A	Great regeneration in this stand. Lots of aspen and paper birch. The ground is mostly upland but probably marginally wet especially towards the west.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	2	
Red Maple	5	Sapling	2	
Yellow Birch	2	Sapling	4	
Balsam Fir	5	Sapling	2	
Paper Birch	30	Sapling	2	
Quaking Aspen	48	Sapling	2	20

14	6122 - Black Spruce	Poletimber Well	40.7	74	81-110	N/A	This is a relatively good quality black spruce stand. The trees are a little older than noted in previous inventory. This stand has a larger deciduous component than the spruce stand to the east, mostly located in the south end. Possibly some oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	78	Pole	8	74
Red Maple	5	Pole	7	
White Pine	5	Log	14	
Tamarack	10	Pole	9	
Quaking Aspen	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	Variable	Sapling
Black Spruce	Medium	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub
Red Oak	Trace	5 - 10 feet	Sapling
Balsam Fir	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
15	6112 - Lowland Aspen	Poletimber Well	8.3	60	Unspecified	N/A	If private landowner decided to cut we could cut this. Red maple is in good shape. Aspen and fir is in poor condition.																																									
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Balsam Fir	Full	Variable	Sapling																																													
16	42110 - Planted Red Pine	Sawtimber Well	11.7	62	111-140	N/A	Stand was most recently thinned in 2018 as part of Old Mack Mix. Thinned in 2003 or 2004. Pine is good quality. Row thinned in 1998.																																									
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17	6220 - Alder/willow	Nonstocked	6.6			No																																										
18	6122 - Black Spruce	Poletimber Well	39.7	75	81-110	N/A	This is a relatively good black spruce stand. Aged trees from 72-78 years old which is around 10 years older than noted last entry. Should be treated now before the spruce deteriorates.																																									
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19	6120 - Lowland Cedar	Poletimber Well	63.0	136	51-80	N/A	This is a poor quality cedar. The trees are stunted and old. Ages are from 126-148.																																									
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20	6220 - Alder/willow	Nonstocked	5.6			No																																										
21	500 - Water	Nonstocked	23.1			No																																										
22	4130 - Aspen	Sapling Well	30.6	17	Immature	N/A	Cut in 2006 in Omega Aspen 003-05																																									
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Canopy Species	% Cover	Size Class	DBH	Age																																												
Black Cherry	2	Sapling	2																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>23</b>	6122 - Black Spruce	Poletimber Poor	35.0	94	Unspecified	N/A	Very poor quality stand of scattered balsam fir and black spruce of varying ages. High water table. Balsam fir is dying out due to budworm damage.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		2	Log	12		Red Maple		
Balsam Fir		45	Sapling/Pole	4	55	Balsam Fir		
Black Spruce		53	Pole	7	94	Balsam Poplar		
						Black Spruce		
						Tag Alder		
<b>24</b>	6112 - Lowland Aspen	Poletimber Well	10.3	36	81-110	N/A	Good quality aspen. Ground low with upland hills within. Trees are 4-7" at DBH.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		10	Pole/Sapling	6	36	Red Maple		
Balsam Fir		5	Pole	7		Balsam Fir		
Red Maple		5	Sapling	4				
Quaking Aspen		80	Pole/Sapling	6	36			
<b>25</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.9	38	51-80	N/A	Mixed stand of red maple, aspen, fir, and birch. Many trees are reaching pole size. Ground is probably marginally wet. Old notes indicate red oak was planted in this stand, west of the trail, in 1988.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Cherry		2	Sapling	3		Red Maple		
Red Maple		33	Sapling/Pole	4	38	Quaking Aspen		
Quaking Aspen		34	Pole/Sapling	5	38	Balsam Fir		
Balsam Fir		25	Pole/Sapling	5		Yellow Birch		
Paper Birch		6	Pole/Sapling	5				
<b>26</b>	310 - Herbaceous Openland	Nonstocked	15.7			No	Old stand note: "Red oak hand planted in trenches by MCCC 1988" Opening is close to being a forested stand.. Lots of oak saplings filling in.	
<b>27</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	34.0	90	51-80	N/A	Good bit of regeneration in the understory. Mostly maples and oak.  Decent stand of hardwood with varying basal area's. Stand was thinned in spring of 2017 as part of Bisnett Hardwoods. Prior to that it was cut in 2000.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		20	Log	14		Red Maple		
Yellow Birch		13	Log	16		Ironwood		
Sugar Maple		35	Log/Pole	12	90	Hazelnut (Spp.)		
Red Oak		32	Log	16		Sugar Maple		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>28</b>	6120 - Lowland Cedar	Sawtimber Medium	62.5	98	111-140	N/A	Previous inventory typed this as lowland deciduous with 70% paper birch. There is almost no paper birch remaining in the stand. Cedar is the dominant species with some spruce and fir. The deciduous component is mostly near the north and west end of the stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Yellow Birch		4	Log	14		Northern White Cedar	Low	Variable	Sapling
Northern White Cedar		59	Log/Pole	12	98	Black Ash	Trace	10 - 20 feet	Sapling
Red Maple		7	Log/Pole	10		Tag Alder	Trace	5 - 10 feet	Tall Shrub
Paper Birch		3	Log/Pole	11		Balsam Fir	Full	Variable	Sapling
Hemlock		2	Log/XLog	16					
Balsam Fir		13	Pole/Log	8					
Black Spruce		12	Pole	7					
<b>29</b>	500 - Water	Nonstocked	12.6			No			
<b>30</b>	4123 - Red Oak	Sawtimber Well	15.1	91	111-140	N/A	Stand is split from 32. It is mostly pole and log sized oak with some maple. The stand is hilly.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		20	Log	13		Red Oak	Low	Variable	Sapling
Yellow Birch		5	Pole	8		Sugar Maple	Low	Variable	Sapling
Red Oak		75	Log/Pole/Sap	14	91				
<b>31</b>	6130 - Fir, Aspen, Maple	Sapling Medium	18.1	38	1-50	N/A	Poor stand of balsam with red maple, and birch. Balsam fir Mortality throughout either from sbw or because of the wet ground.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Yellow Birch		2	Sapling/Pole	4		Balsam Fir	Full	Variable	Sapling
Red Maple		40	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
White Spruce		2	Sapling	3					
Hemlock		2	Pole	8					
Black Spruce		2	Pole	8					
Balsam Fir		52	Sapling	3	38				
<b>32</b>	4123 - Red Oak	Poletimber Well	26.8	41	81-110	N/A	Stand of pole and sapling red oak. Some large oaks exist. Stand will take time to mature before any treatment should occur.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		23	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Red Maple		10	Pole/Sapling	6		Red Oak	Medium	Variable	Sapling
Red Oak		65	Pole	8	41				
Yellow Birch		2	Pole	8					
<b>33</b>	6122 - Black Spruce	Poletimber Well	9.0	88		N/A	Stand with a mix of black spruce, aspen, birch and balsam fir.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		70	Pole/Log	9	88	Black Spruce	Medium	Variable	Sapling
Quaking Aspen		10	Log	14		Northern White Cedar	Low	Variable	Pole
Balsam Fir		10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Paper Birch		10	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>34</b>	6122 - Black Spruce	Poletimber Medium	27.5	62	Unspecified	N/A	Scattered mature black spruce with a full understory of spruce and fir.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole	10	
Black Spruce	80	Pole/Sapling	6	62
Northern White Cedar	5	Pole	8	103
Red Maple	5	Pole	5	
Paper Birch	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black Spruce	High	Variable	Sapling
Red Maple	Medium	Variable	Sapling

<b>35</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	8.2	60	111-140	N/A	Low quality sugar and red maple with a lot of balsam fir in the over and understory. Some logs but a lot of poles still. BA is 110-130 with close to half of that being balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	4	Pole/Log	9	
Sugar Maple	37	Pole/Log	8	60
Balsam Fir	37	Pole	7	
Basswood	7	Log	15	
Red Maple	15	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Ironwood	Low	Variable	Pole

<b>36</b>	6120 - Lowland Cedar	Poletimber Poor	8.5	86	51-80	N/A	Stand was previously a tag alder opening but there is a light canopy of cedar in much of the stand with some open areas.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole	5	
Red Maple	5	Pole	7	
Northern White Cedar	85	Pole/Log/Sap	7	86

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling
Labrador Tea	Medium	< 5 feet	Tall Shrub

<b>37</b>	6120 - Lowland Cedar	Sawtimber Well	14.2	92	Unspecified	N/A	Stand of lowland conifer and deciduous of poor quality. Some of the cedar is decent quality.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Log	16	
Northern White Cedar	52	Log	11	92
Red Maple	20	Log	15	
Balsam Poplar	4	Pole	6	
Black Ash	4	Sapling/Pole	3	
Balsam Fir	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Pole
Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	High	Variable	Sapling

<b>38</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.0	80	111-140	N/A	Stand of poorer quality red maple with dense balsam in the mid story.
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Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	3	Log	12	
Red Maple	77	Log/Pole	11	80
Sugar Maple	15	Log	12	
Yellow Birch	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Balsam Fir	Full	>20 feet	Sapling



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 139.8 132 111-140 N/A

This stand is very unique for this area. Stand of rolling hills with very large hemlock. Stand consists of both upland and lowland areas. Red maple and yellow birch are growing within the canopy gaps. Northwest corner of stand was logged along time ago, old stumps in the area. There is an upland inclusion in the northwest corner that consists of maples and yellow birch.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Log	12	
Hemlock	58	XLog	20	132
White Pine	14	XLog/Log	18	
Red Maple	10	Log/Pole	11	
Balsam Fir	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Medium	Variable	Pole
Yellow Birch	Low	Variable	Pole
Red Maple	Medium	Variable	Pole
Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	Low	Variable	Pole

Old notes indicate some cutting occurred in 1986.

**40** 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Medium 8.9 120 81-110 N/A

Stand is a mix of red maple, hemlock, and white pine. Kind of a low "island" in the hardwoods. Provides pretty good cover. Best to leave this stand alone with all of the surrounding timber getting treated.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole/Log/Sap	8	120
Yellow Birch	2	Pole/Sap/Log	9	
Balsam Fir	5	Pole	8	
Black Spruce	5	Pole	8	120
Northern White Cedar	3	Pole	9	
White Pine	15	XLog	24	
Hemlock	30	Log/XLog	13	120

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Hemlock	Low	Variable	Sapling
Yellow Birch	Low	Variable	Pole
Balsam Fir	Full	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling

**41** 4119 - Mixed Northern Hardwoods Sawtimber Well 89.0 80 111-140 N/A

Consists of mostly poor red maple with some sugar maple. Yellow birch scattered throughout. About 10 acres of oak/aspens in the east end.. Basal area fluctuates throughout. Lots of red oak regen in old skid trails and gaps.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	53	Log/Pole	12	80
Yellow Birch	8	Log	14	
Hemlock	2	Log/Pole	11	
Sugar Maple	18	Log/Pole	10	
Red Oak	14	Log	15	
Basswood	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Red Oak	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling

**42** 4112 - Maple, Beech, Cherry Association Sawtimber Well 63.0 104 51-80 N/A

Stand of decent sugar maple with yellow birch and red maple. Much of the red maple was removed in the last harvest. The stand was last thinned in the spring of 2018 as part of Bisnett hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log	14	104
Yellow Birch	5	Log	14	
Hemlock	5	Log	15	
Red Maple	30	Log	14	
Red Oak	10	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Full	5 - 10 feet	Tall Shrub
Red Maple	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Yellow Birch	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
43	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.4	81	111-140	N/A	Strip of old spruce, aspen, fir, and maple located between 2 hardwood stands.																																																						
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44	4110 - Sugar Maple Association	Sawtimber Well	10.6	90	51-80	N/A	Nice stand of hardwood, quality is good. Last thinned in spring of 2017 as part of Bisnett Hardwoods prior to that it was thinned in 1995.																																																						
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45	4131 - Aspen, Oak	Poletimber Well	10.3	46	111-140	N/A	Stand of aspen and oak with some areas of spruce. There is much more oak in this stand than noted in previous inventory, nearly equal amounts. The oak is very good quality.																																																						
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46	4110 - Sugar Maple Association	Sawtimber Well	9.2	80	81-110	N/A	Thinned last entry and is still pretty thin. Raspberry has come in pretty heavy but there is some free to grow maple saplings. Stand was thinned in December of 2016 as part of Monsoon Mix.																																																						
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47	4199 - Other Mixed Upland Deciduous	Sapling Well	23.9	14	Immature	N/A	White spruce plantation that was clearcut in 2009. Stand is a mix of cherry, aspen, oak, birch, and maple.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
<b>48</b>	4123 - Red Oak	Sawtimber Well	126.0	100	51-80	N/A	Stand of large diameter red oak with sugar maple. The stand was last cut in the spring of 2017 and 2018 as part of Bisnett Hardwoods. BA ranges from 60-100. Look to treat next YOE. Tons of sugar maple and raspberry in the understory.																																																														
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<b>49</b>	6120 - Lowland Cedar	Sawtimber Well	148.2	116		N/A	Stand is somewhat variable throughout. Cedar is most common and of varying quality. There are small knobs and ridges throughout which have either hemlock and cedar or red maple and birch on them. Ground is wet to marginally dry.																																																														
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<b>50</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.6	53	51-80	N/A	A mix of maples and oak. Mostly poles with some oak in the log class.																																																														
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<b>51</b>	6224 - Treed Bog	Nonstocked	10.3			No																																																															
<b>52</b>	4319 - Mixed Upland Forest	Poletimber Well	12.1	45	51-80	N/A	Stand is a hodge podge of many species. Oak, red maple, and spruce are most prevalent. There is wet area or drain through the center of the stand.																																																														
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<b>53</b>	310 - Herbaceous Openland	Nonstocked	20.5		Unspecified	No	Comment from YOE 1995: "3-2 Acre Oak Plantings. Trees planted SW 8x10. Acorns 6x8 Middle. Acorns broadcast and disked on NE area"																																																														



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<b>54</b>	4130 - Aspen	Poletimber Well	10.7	37		N/A	Aspen is looking good. Some trees just reaching pole sized. Not quite ready for harvest yet.																																																							
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<b>55</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	10.9	7	Immature	N/A	Regeneration looks good. It is mostly aspen with a mix of maples and oak.  Stand was cut in November 2016 as part of Monsoon Mix. Scattered oak and pine trees were left along with a retention patch.																																																							
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<b>56</b>	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No																																																								
<b>57</b>	4130 - Aspen	Poletimber Well	16.7	41		N/A	Stand looks ready to harvest in many spots but has a lot of saplings in others. DBHs are 4-7 inches. Seeing a good bit of top damage likely from ice.  According to YOE 1995 notes 2 acres in this stand were planted to red oak.																																																							
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<b>58</b>	6224 - Treed Bog	Nonstocked	8.3			No	bog that is filling in in with wp,bs and tam.																																																							
<b>59</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.8	80	51-80	N/A	Stand was thinned somewhat heavily in spots with most of the red maple taken out. Tons of saplings growing in. Lots of aspen but also plenty of ftg sugar maple. Areas of dense conifer in the understory. This stand was thinned in 2005 then again in the spring of 2017 as part of Monsoon Mix.																																																							
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<b>60</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	20.9	56	81-110	N/A	Old notes indicate this stand was essentially seed tree'd many years ago. There are large oaks mixed with pole sized maple, oak, and large mature aspen.																																																				
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<b>61</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	18.9	38	51-80	N/A	The stand is a good mix of aspen, oak, maple, and some white pine. Some aspen looks very poor. The oak poles look really good.  Cut in 1985. Old stand notes indicate there is an apple tree in the north end of the stand.																																																				
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<b>62</b>	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	14.2	40	51-80	N/A	Stand is dominated by pole sized white pine with some aspen and red maple. Stand looks to have been cut via. shelterwood many years ago. There are large white pine scattered throughout.																																																				
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<b>63</b>	42110 - Planted Red Pine	Poletimber Well	21.3	24	111-140	N/A	Red Pine is looking good. DBHs 4-7" Heights 25-35'. There are some small canopy gaps here and there probably from the sawfly infestations. The stand is no longer at risk of sawfly infestation.  Red pine plantation, planted in 1999. Red pine has been hit by sawfly for at least the last 5 years. Bob Heyd and Don Kuhr sprayed the plantation in 2012 with hopes to at least slow it down. Tree mortality has been minimal but trees have definitely been stunted due to the defoliation. The mature strip along the north side of the stand was cut in 2018.																																																				
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<b>64</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	5.1	11	Immature	N/A	Stand has regenerated well with a good mix of species. Red maple, aspen, birch, spruce, and oak. Stand is largely upland. Some mature oak, fir, and cedar were left during harvest.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
65	622 - Lowland Shrub	Nonstocked	13.4		Unspecified	No				
66	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	9.8	63	111-140	N/A	Much of the stand is open now that the white spruce has been removed. Scattered oak remain throughout. The red pine is mostly on the east side. The BA within the pine rows is about 120. Stand was last thinned in 2018 as part of Old Mack Mix			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Pine	60	Log	12	63	White Spruce	Low	Variable	Pole
67	4130 - Aspen	Poletimber Well	7.6	38	51-80	N/A	Aspen stand is barely a pole stand. Many saplings still exist. Not ready for a cut.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	30	Pole/Sapling	5		Red Maple	Low	Variable	Sapling
		Quaking Aspen	20	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
		Bigtooth Aspen	50	Pole/Sapling	5	38				
68	122 - Road/Parking Lot	Nonstocked	2.2		Unspecified	No				
69	4110 - Sugar Maple Association	Sawtimber Well	44.4	80	111-140	N/A	Split this stand from 41 because it is higher quality and has a different species composition. This stand is good quality hardwood, mostly sugar maple with some birch. Hardwood was last thinned in 1995. Merged stand 11 from C42 into this stand.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	10	Log/Pole	12		Sugar Maple	Medium	Variable	Sapling
		Yellow Birch	5	Log	14		Balsam Fir	Low	Variable	Sapling
		Red Oak	3	Log	12					
		Sugar Maple	82	Log/Pole	10	80				
70	6115 - Lowland Ash	Poletimber Well	26.7	94		N/A	Poor quality, stagnant black ash swamp, very high water table exists. Black ash ranges from 2-8" dbh.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Black Ash	94	Sapling/Pole	4	94	Black Ash	Medium	Variable	Sapling
		Northern White Cedar	4	Pole	8		Tag Alder	Medium	Variable	Tall Shrub
		Balsam Fir	2	Pole	6		Balsam Fir	Low	Variable	Sapling
							Northern White Cedar	Low	Variable	Sapling
71	500 - Water	Nonstocked	2.6			No				
72	6239 - Mixed Emergent Wetland	Nonstocked	8.6			No				
73	6122 - Black Spruce	Poletimber Poor	17.2	95	1-50	N/A	Hard to say if this stand is an S4 or a Q3. There is an overstory of scattered, old, poor black spruce and a dense understory of spruce, cedar, and tamarack. The stand has deteriorated beyond the point where a harvest is feasible. New acquisition in 2022.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Black Spruce	97	Pole/Log	9	95	Black Spruce	Medium	Variable	Sapling
		Tamarack	3	Pole/Log	9		Northern White Cedar	Medium	10 - 20 feet	Sapling
							Tamarack	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
75	330 - Low-Density Trees	Nonstocked	7.5			No	
76	330 - Low-Density Trees	Nonstocked	8.7			No	