



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52035

Entry Year 2026

Acreage: 2,925

County: Charlevoix

Management Area: Wolverine Moraines

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**Stand Examiner:** Doug Tyran

**Legal Description:**

T 33N, R 04W, Sections: 3, 4, 9, 10, 15, 16

**Identified Planning Goals:**

Maintain the state forest resource in a healthy condition to meet: State Forest Management Plan Objectives, Wildlife Habitat Improvement, & Recreational Use.

**Soil and topography:**

Soils are of the Leelanau-Emmet association. Topography ranges from nearly level to severely hilly.

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

There is mostly state land in and around the compartment with some private ownership, primarily residences, abandoned farmland, and hunting camps.

**Unique Natural Features:**

No Unique Natural Features known.

**Archeological, Historical, and Cultural Features:**

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

**Special Management Designations or Considerations:**

There is beaver activity in Section 16. An active Goshawk Nest was observed during inventory in the NW corner of Section 9. There was a historic comments about a red shoulder hawk nest (none was observed).

**Watershed and Fisheries Considerations:**

Most of this compartment is in Central Lake Michigan Management Unit (CLMMU). The small portion that is in the Northern Lake Huron Management Unit has no surface water features, so NLHMU has no concerns at this time.

The portion of the compartment within CLMMU contains wetlands and feeder streams associated with the Bear River. Best management practices should be utilized to buffer the clear cut along the stream if water or wet soils are present.

**Wildlife Habitat Considerations:**

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benefiting deer, grouse, and woodcock. Hardwood treatments will provide within stand structural diversity and pockets of early successional habitat benefiting songbirds, and deer. Woody debris will benefit pine marten populations. Openings are prescribed to be maintained in this compartment benefiting deer, turkey, grouse, and song birds..

**Mineral Resource and Development Concerns and/or Restrictions**

The closest known sand/gravel pit is an old State-owned pit, Bear River Road Pit, two miles northwest. There may be some potential for sand & gravel within the compartment on the uplands, but surficial sediments in the area appear to be clay-rich. In addition, demand for aggregate in the area may be low, primarily limited to the need for local road maintenance. The compartment is north of the main Antrim Shale gas play. The Antrim is thinning in this direction, and any Antrim wells drilled in this area would likely be marginally productive and uneconomic. Furthermore, pipeline infrastructure has not been developed in this area. Many Antrim wells completed just south of the compartment have been orphaned as a function of the above and the relatively low price of natural gas. There was some past interest in development of the Collingwood Formation in this area, but that has not proven to be an economic play to date and interest has waned. There has been no recent well permit activity in the area and no recent oil & gas leasing activity involving State-owned mineral rights in the area of the compartment. Potential for oil & gas development within the compartment is considered low at this time. There is no known potential for metallic minerals in this part of the state.

**Vehicle Access:**

Harmon Road bisects the compartment north to south. A network of forest trails provides access throughout the

compartment, though poor conditions limit two-wheeled traffic in a majority of places. A Director's Order denies wheeled vehicles access to the east half of the east quarter of Section 16.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

The North Country Trail traverse through Sections 4, 9, and 16. The snowmobile trail follows Harmon Road, and traverses through section 9. The ORV trail follows Harmon road between sections 15 & 16, and traverses through section 15. Dispersed camping present in section 15.

**Fire Protection:**

A majority of this compartment are deciduous cover types, which are somewhat resistant to large contiguous wildfires. However, given the right conditions fires could certainly occur, most probable from adjacent private landowners or recreationists. Best access is along the county roads, otherwise access may be limited. There is a historic burn unit in Section 3 to be maintained as part of the CCC field burns.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

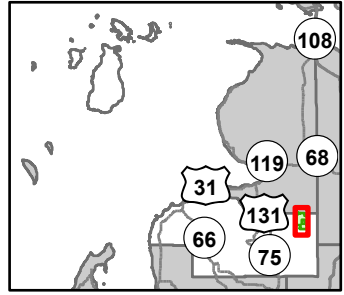
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

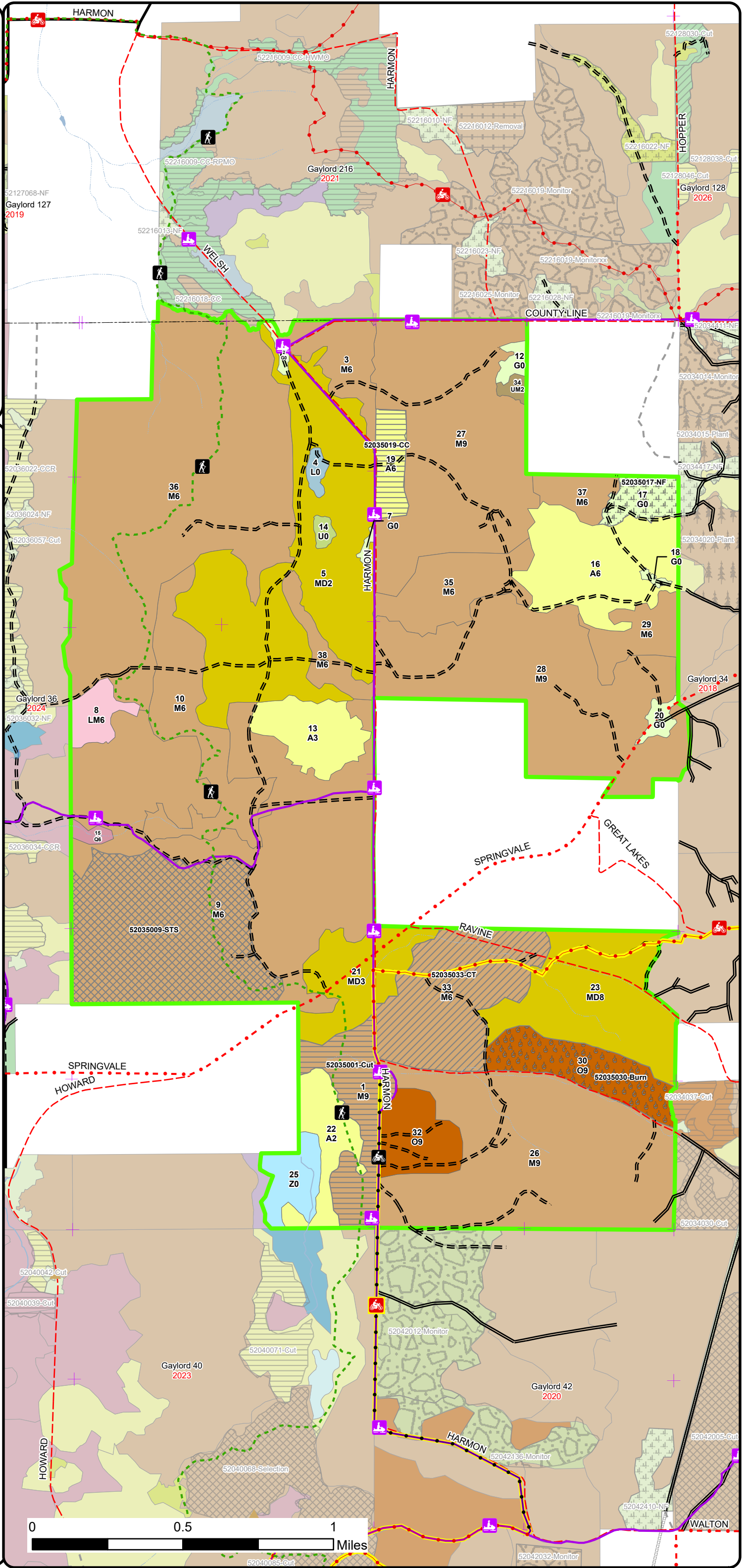
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 52035  
 T33N, R4W, Sec: 3, 4, 9, 10, 15, 16  
 County: Charlevoix  
 Unit: Gaylord  
 Mgmt Area: Wolverine Moraines  
 YOE: 2026  
 Acres: 2924.6 GIS Calculated  
 Examiner: Doug Tyran  
 Map Revised: 09/25/2024  
 Map Phase: Post Review



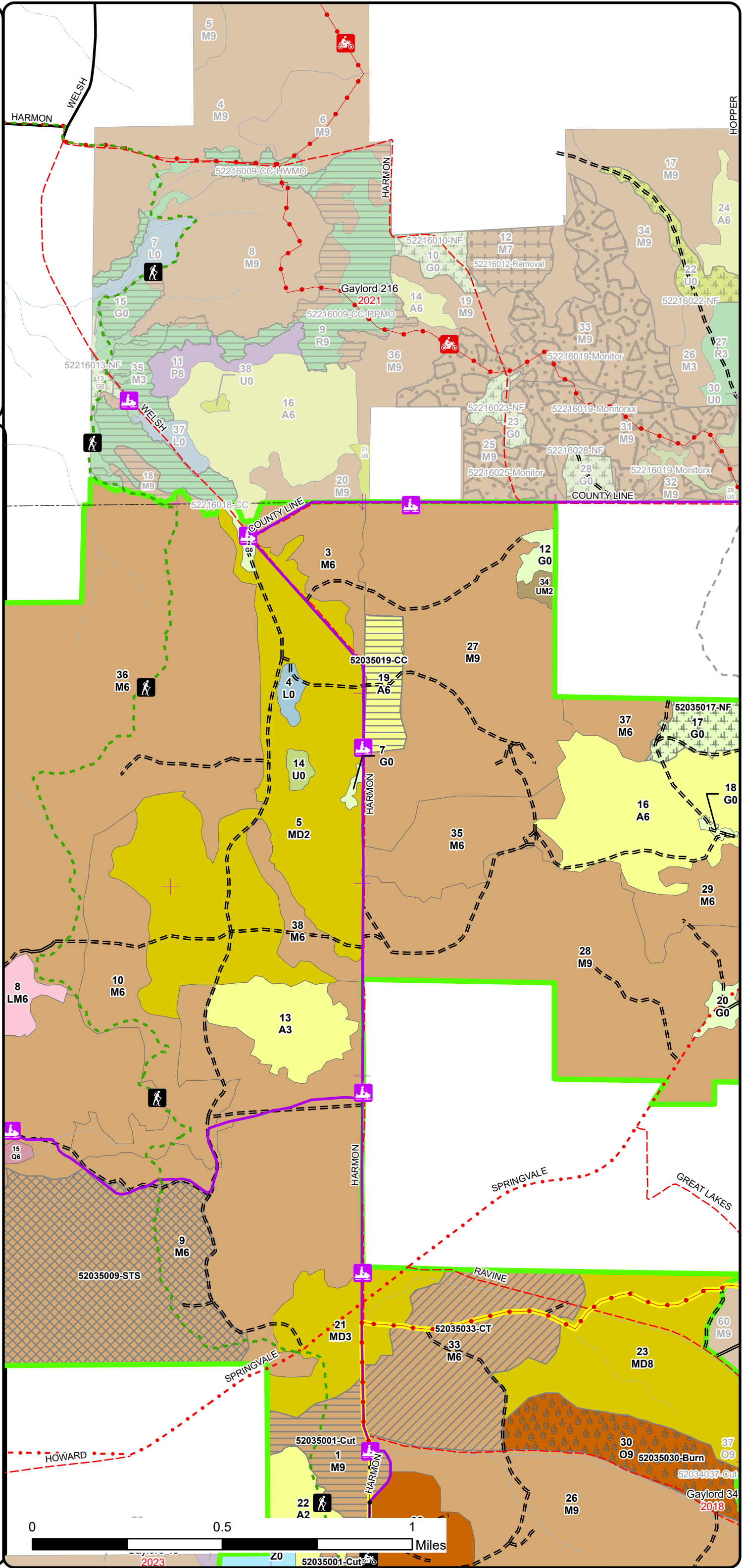
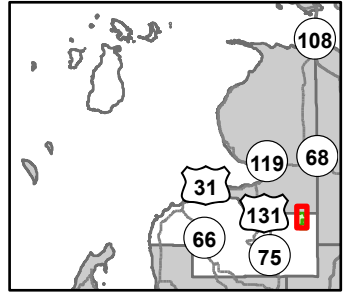
- Berms
- Culvert
- Survey Grade Corners
- Remonumented Section Corners
- Hiking Trails
- Motorcycle Trails (SOS License)
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Pipeline
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
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- 613 - Lowland Mixed Forest
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- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub



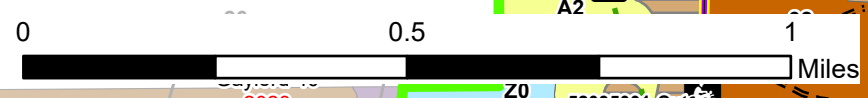


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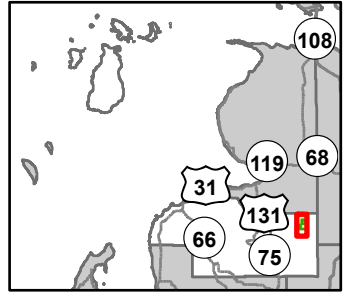


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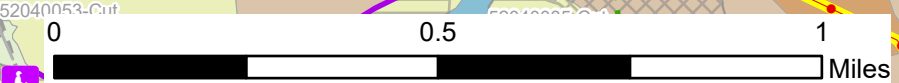
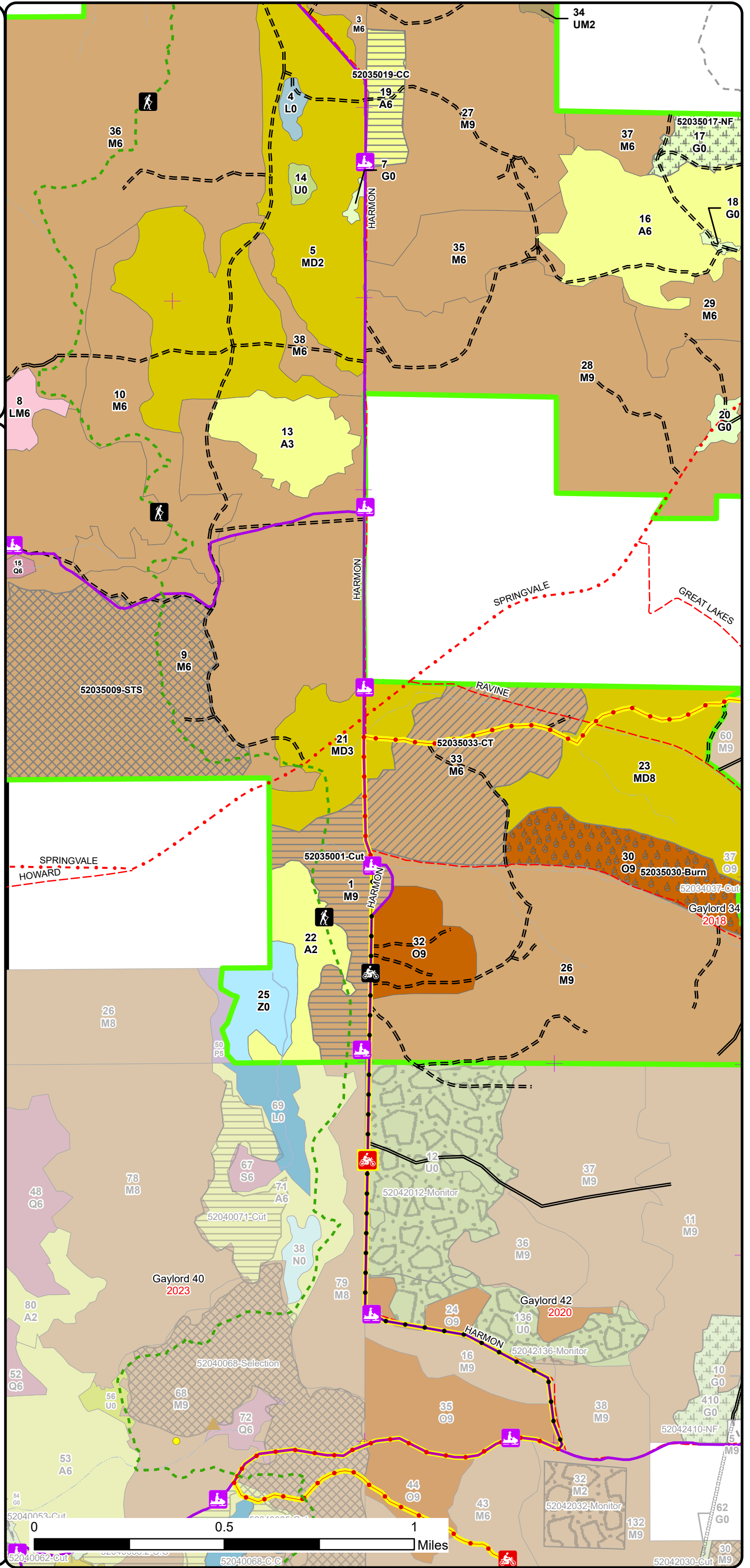


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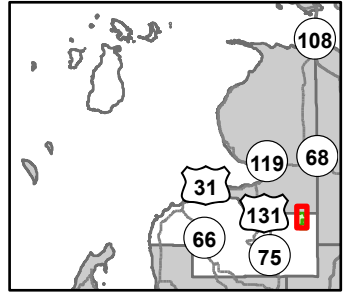


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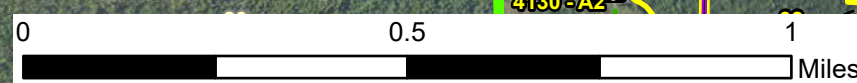
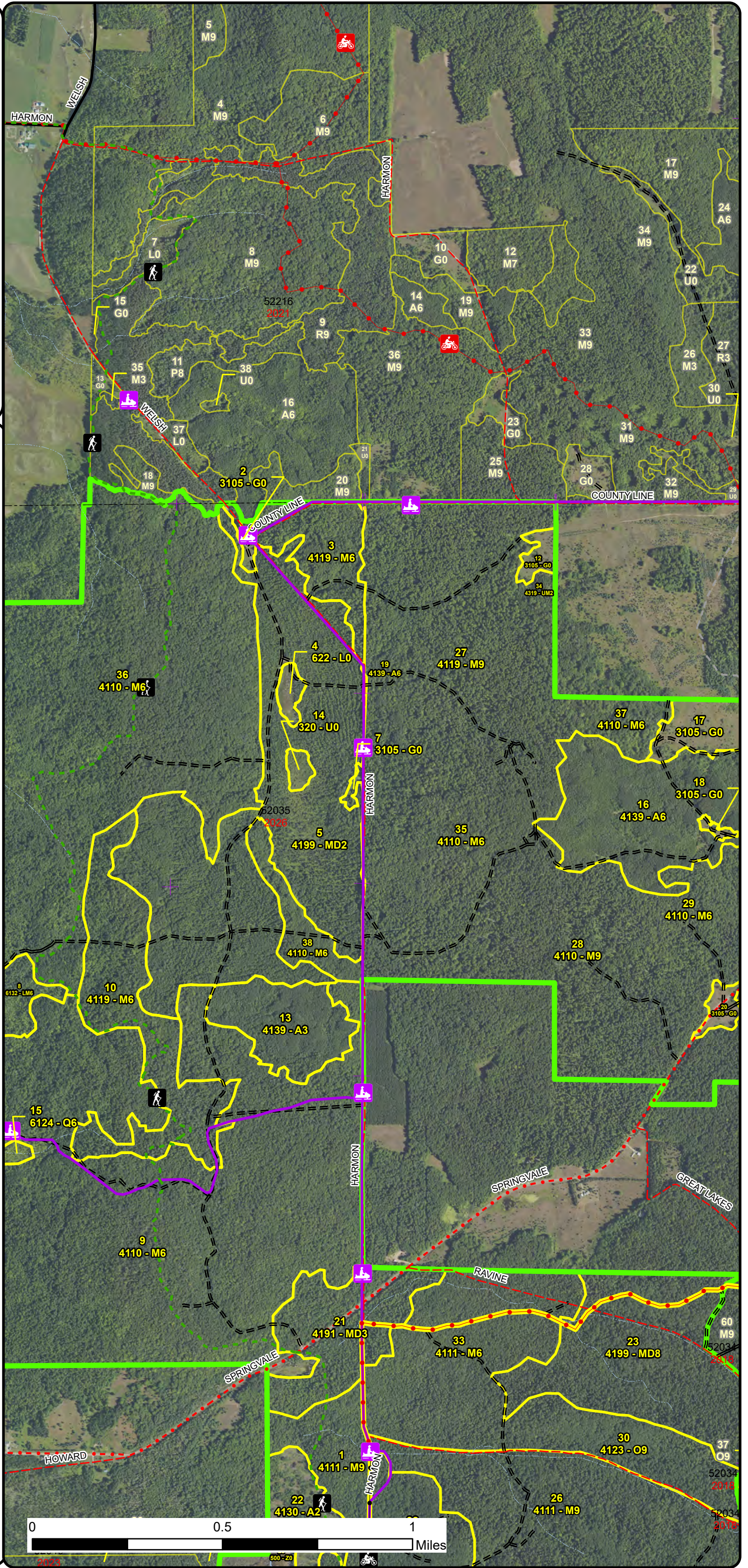


**Stand Boundary Map**

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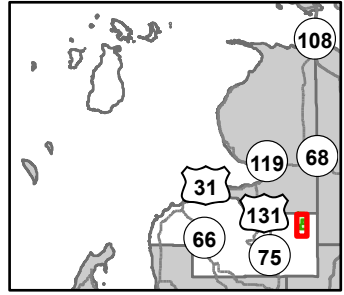
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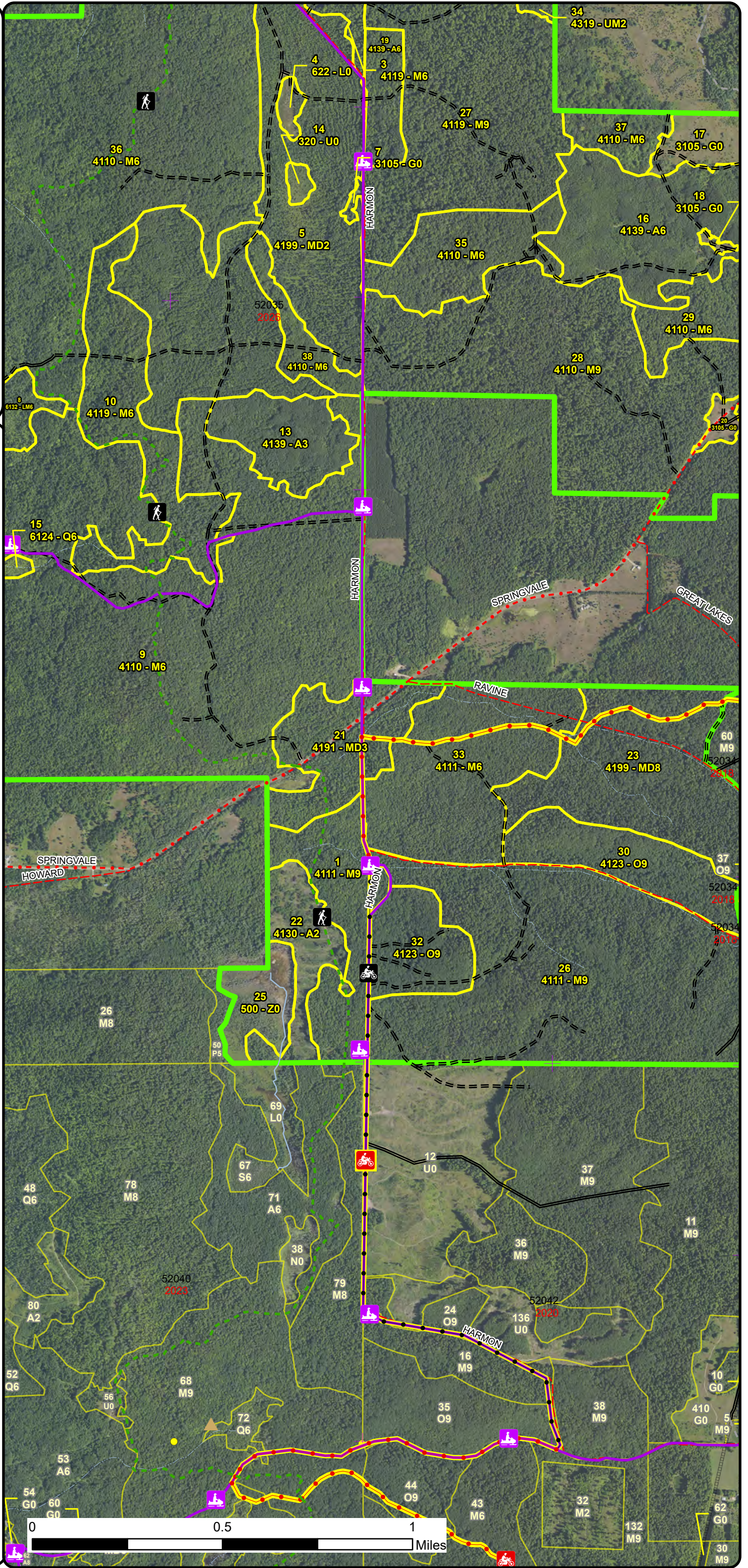


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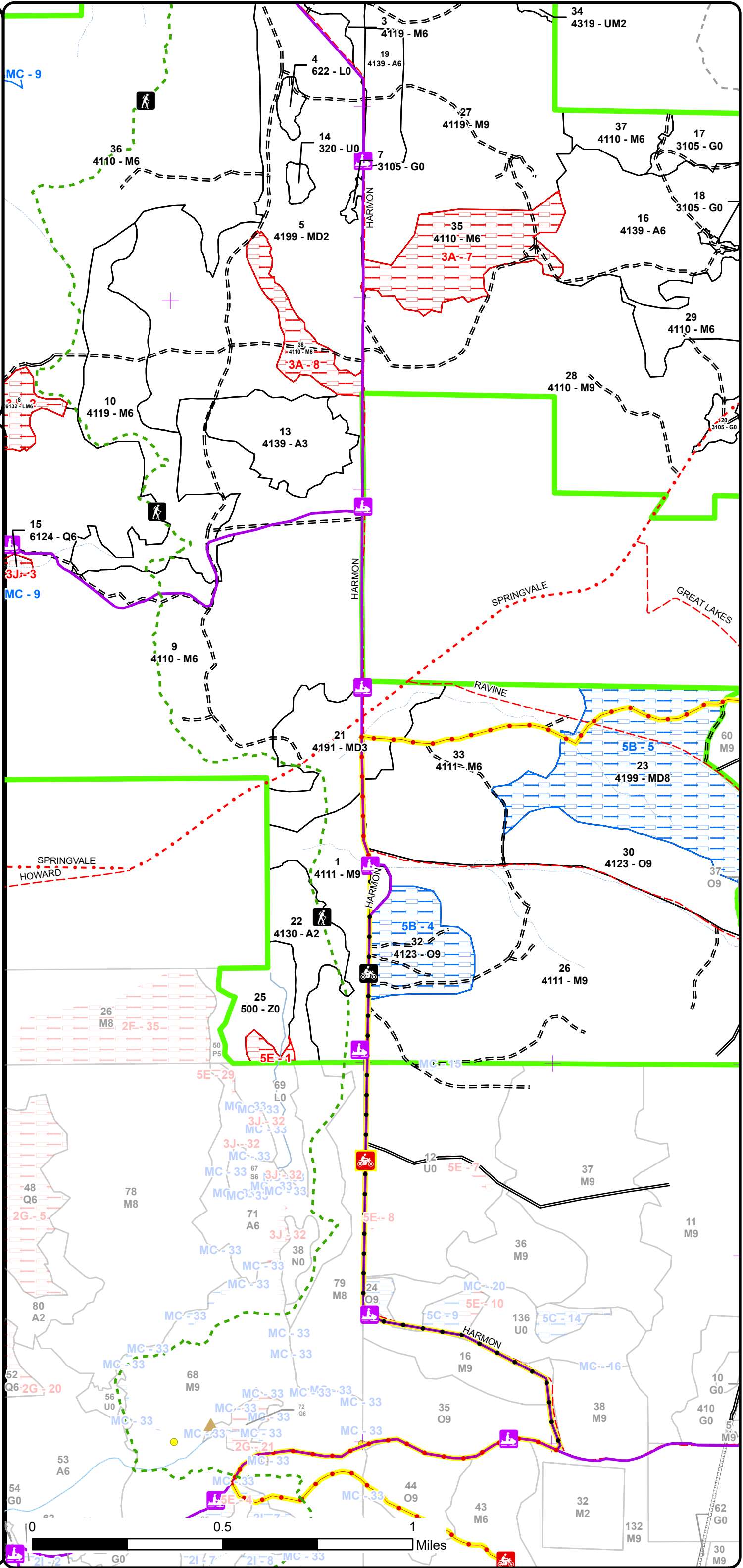
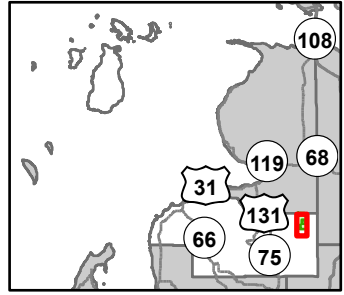






# Special Conservation Areas & Site Conditions Map

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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



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
Aspen	0	39	0	44	99	0	0	23	0	0	0	0	0	0	0	0	0	0	205
Herbaceous Openland	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	254	63	0	0	0	0	0	0	121	0	0	0	0	0	0	438
Northern Hardwood	0	0	0	0	0	0	40	90	0	0	0	1573	380	0	0	0	0	0	2083
Oak	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	96
Upland Mixed Forest	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
<b>Total</b>	<b>77</b>	<b>39</b>	<b>0</b>	<b>302</b>	<b>162</b>	<b>0</b>	<b>59</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1790</b>	<b>380</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2926</b>





## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 35

Total Compartment Acres: 2,925

Commercial Harvest - 396  
 Harvests with Site Condition - 0  
 Next Step Harvest - 55  
 Habitat Cut - 55

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	23	0	0	0	0	0	0	0	0	23
Northern Hardwood	65	191	0	0	0	117	0	0	0	373
<b>Total</b>	<b>87</b>	<b>191</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>396</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	396	0	0	0	55	0	0	21	0	472
Next Step	55	0	0	0	0	0	691	0	0	746
<b>Total</b>	<b>451</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>0</b>	<b>691</b>	<b>21</b>	<b>0</b>	<b>1217</b>





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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:**

<b>1</b>	<b>52035001-Cut</b>	64.6	4111 - S.Maple, Hard Mast Association	Sawtimber Well	100	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees 2" and up, do not cut conifer for structural diversity, potential seed source and wildlife. Leave 3-10% area retention focusing around hemlock, oak, larger trees and other underrepresented species.</p> <p>Legacy trees may occur, follow guidance if they occur.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, Basswood, Oak, Pine &amp; Aspen, that meet minimum stocking requirements.</p> <p><u>Other Comment:</u> Add spec to push over trees along red line or identify individual trees around retention to push over or cut into retention/adjacent stands to create horizontal structure.</p> <p>Add recreational trail specs. Contact Rec Trails specialist to consider re-route. Goal is to create some age class diversity (due to lack of undesirables in the understory) may be a good opportunity to regenerate some Maple, Basswood, and Oak with some pine or aspen.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>9</b>	<b>52035009-STS</b>	191.2	4110 - Sugar Maple Association	Poletimber Well	105	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin to 70-90 BA. Look for opportunities to maintain aspen by putting in mini-clearcuts when aspen clones are encountered. A focus on promoting stand species diversity should be maintained. Place regeneration gaps of 1/10th acre at a rate of one for every two acres.</p> <p>Leave all ash and beech dead or alive for future snags and structure. Favor underrepresented species to leave.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of northern hardwood species and aspen where present.</p> <p><u>Other Comment:</u> Add recreational trail/snowmobile specs. Contact Rec Specialists about rerouting trail.</p> <p>This area was previously prescribed in 2016 YOE and was set up as part of Almost There HDWDS , but was never cut. Orange painted trees are still easily found, red line and payment unit lines may need to be re-painted. Then re-cruised to calculate volume.</p> <p>*Original prescription had them cutting all beech and ash (all ash are surely dead so was dropped from this Rx). The extensive dead and down wood from ash and beech should satisfy any down and dead woody debris needs.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>17</b>	<b>52035017-NF</b>	20.5	3105 - Mixed Upland Herbaceous	Nonstocked		Immature	Other	Other	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription Specs:</u> Burn, brush, mow, plant and/or herbicide to maintain opening.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Contact LTBB who wish to be involved in burning if possible.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>19 52035019-CC</b>	22.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	60	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, cut all trees 2" and up. No retention due to stand age, to mitigate browse, and maximize full sun for aspen regeneration</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> Aspen, Maple, Cherry, &amp; Basswood that meet minimum stocking requirements.</p> <p><u>Other Comment:</u> Add grouse/hare/deer log spec. Add snowmobile spec.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>30 52035030-Burn</b>	55.2	4123 - Red Oak	Sawtimber Well	101	111-140	Burn	Understory	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Burn understory as needed to set back undesirables and open seed bed prior to timber harvest. Monitor results of burn before selling timber.</p> <p><u>Specs:</u> Burn should achieve at least 50% set back of current regeneration to move forward. Multiple burns may be necessary.</p> <p>Timber Harvest: Final harvest stand, cut all tree's 2" and up. Do not cut any hemlock. Leave 5-10% area retention in islands between 1/4 to 1/2 acre in size focusing on large crowned oak for mast production, try to include hemlock and birch where possible and large trees and other underrepresented species. Push over trees along red line or identify individual trees around retention to push over or cut into retention/adjacent stands to create horizontal structure. Goal is to allow a steady seed source for future seedling establishment evenly spread out throughout.</p> <p>Require producer to pile treetops on and around stumps of harvested oak to protect the stump sprouts from browse.</p> <p>Legacy trees may occur if found follow guidance.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Monitoring, Prescribed Burn</p> <p><u>Treatments:</u> ; Harvest, Clearcut with Retention; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Oak dominated with minor components of Maple, Aspen &amp; Basswood</p> <p><u>Other Comment:</u> Perform year 1 &amp; 3 year post harvest regeneration checks to assess the effectiveness of burning and placing tops on stumps Set up timber sale in normal POW workflow, do not sell the sale until the unit is burned. Require one year contract on harvest. Contact LTBB who wish to be involved in burning if possible.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>33 52035033-CT</b>	117.3	4111 - S.Maple, Hard Mast Association	Poletimber Well	113	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand with a target residual BA of 70. Mark poor formed trees first. Favor Diversity. Don't mark trees within 33 ft. of any hemlock.</p> <p><u>Specs:</u> Protect well formed sugar maple poles and saplings.</p> <p>Potentially mark specific trees to drop for horizontal structure in areas of reduced beech and ash mortality (extensive mortality throughout stand).</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Not a regeneration harvest</p> <p><u>Other Comment:</u> BA is set at 70 with a goal to allow additional growing space for increased crown growth. . Add recreational trail spec.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										





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Treatment  
Name

Acres

Stand  
CoverType

Size  
Density

Stand  
Age

BA  
Range

Treatment  
Type

Treatment  
Method

Cover Type  
Objective

Age  
Structure

Habitat  
Cut

Total Treatment  
Acreage Proposed: 471.5



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Doug Tyran: Examiner

Compartment: 35  
Year of Entry: 2026



### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5B	MC	3A	3J	5E
204	200	0	4	Aspen					4
40	40	0	0	Herbaceous Openland					
5	0	0	5	Lowland Conifers				5	
19	0	0	19	Lowland Mixed Forest				19	
5	5	0	0	Lowland Shrub					
438	317	121	0	Mixed Upland Deciduous	121				
2082	1997	7	79	Northern Hardwood		7	79	0	
96	55	41	0	Oak	41				
4	4	0	0	Upland Mixed Forest					
4	4	0	0	Upland Shrub					
27	27	0	0	Water					
2,925	2,650	169	106	Total Forested Acres	162	7	79	23	4
	91%	6%	4%	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	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Doug Tyran: Examiner

Compartment: 35  
Year of Entry: 2026



4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	121	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>Minor Change in Acreage</b>	7				
<b>Comments:</b>							

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.

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
<b>1</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	64.6	100	111-140	N/A	Pretty unique mix of species than your typical sugar maple dominated stand. No evidence of previous thinning's. QD taken for this stand to derive canopy % and BA of 127 Sq. Ft. / Ac. PDF attached. Data did not capture incidental species so canopy % does not perfectly match.																																																										
<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>Sugar Maple</td> <td>30</td> <td>Log/Pole</td> <td>11</td> <td>100</td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>19</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Ironwood</td> <td>4</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>7</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>4</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Basswood</td> <td>32</td> <td>Pole</td> <td>8</td> <td>100</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	30	Log/Pole	11	100	Red Maple	2	Pole	6		Red Oak	19	Log/Pole	11		Ironwood	4	Pole	6		Red Pine	2	Log	15		Bigtooth Aspen	7	Log/Pole	11		Hemlock	4	Log	13		Basswood	32	Pole	8	100	<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>Beech</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	< 5 feet	Sapling	Sugar Maple	Low	< 5 feet	Sapling	Ironwood	Low	< 5 feet	Sapling
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<b>2</b>	3105 - Mixed Upland Herbaceous	Nonstocked	3.6			No	Not much of a true opening, contains the intersection of County Line Rd/Harmon Rd. Going south from this intersection is the logging trail known as Welsh Rd.																																																										
<b>3</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	40.0	59	81-110	N/A	Former red pine plantation, top was taken off to allow established hardwoods to grow. There are a few large sawlog sized areas of sugar maple and basswood centrally located in the stand (Likely areas that were too steep to plant to). The rest is pole sized.																																																										
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<b>4</b>	622 - Lowland Shrub	Nonstocked	5.2		Immature	No	Previous inventory had this as forested at 75% black spruce, 25% jack pine/red pine. All spruce are dead except one or two. Jack Pine & Red Pine along the edge are likely remnants of adjacent red pine removal, this is some type of pond or marsh. Joe Pie Weed, Cattail, ect.																																																										





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>5</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	253.5	23	1-50	N/A	This was a red pine overstory removal in 2009. Now a young diverse hardwood stand. A few scattered log/pole sized trees left from the removal. Will be nice a nice stand for the future. Lots of skid trails, but filling into mostly desirable species.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		7	Sapling/Pole	1		Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub	
Red Pine		2	Sapling	1							
White Ash		3	Sapling/Pole	1							
Red Maple		5	Sapling	1							
Bigtooth Aspen		20	Sapling/Pole	1							
Serviceberry (Juneberry)		3	Sapling	1							
Red Pine		2	Log	15							
Paper Birch		3	Sapling	1							
Sugar Maple		25	Sapling/Pole	1	23						
Paper Birch		1	Log	11							
Rock Elm		1	Sapling/Pole	1							
Black Cherry		15	Sapling/Pole	1							
Ironwood		13	Sapling/Pole	1							

<b>7</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.8			No	Some scattered saplings of hardwood and red pine.
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<b>8</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	18.7	55	51-80	N/A	One big seep that drains to the west.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		25	Pole/Sapling	8			
Northern White Cedar		20	Log/Pole	10	97		
Yellow Birch		15	Log	10			
Quaking Aspen		40	Pole/Log	9	55		

<b>9</b>	4110 - Sugar Maple Association	Poletimber Well	495.2	105	81-110	N/A	Split out from the big M6 complex to the north. Variable BA, Avg. 100.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		60	Pole/Log	9	105	Sugar Maple		Low	Variable	Sapling
Red Maple		2	Pole	8		Black Cherry		Low	Variable	Sapling
Basswood		30	Pole/Log	9		White Ash		Low	Variable	Sapling
Quaking Aspen		2	Log/Pole	10		Ironwood		Medium	Variable	Sapling
Bigtooth Aspen		3	Pole	7		Beech		Medium	Variable	Sapling
Beech		3	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>10</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	89.9	68	51-80	N/A	Was previously a planted pine site. This stand looks to have been more developed than the stands to the east with similar history.  Fairly steep hill going from east to west in this stand. Becoming more level ground at the stand boundary to the east.																																								
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<b>12</b>	3105 - Mixed Upland Herbaceous	Nonstocked	6.2			No	Old pasture land converting to sugar maple and red pine.																																								
<b>13</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	44.1	26	51-80	N/A	Variable young stand that provides good diversity. Some patches are much smaller than others, likely due to delays in development/establishment. Cut in 1998.																																								
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<b>14</b>	320 - Upland Shrub	Nonstocked	3.8	0		No	This is an opening surrounded by a young mixed deciduous stand. This may be an old landing when they harvested the red pine. Imagery shows red pine growing here prior to harvest. It is filling back into forest. Does not seem lowland.																																								
<b>15</b>	6124 - Lowland Spruce-Fir	Poletimber Well	4.6	60	51-80	N/A	Wet seep draining to the west.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
16	4139 - Aspen, Mixed Deciduous	Poletimber Well	98.6	35	81-110	N/A	A diverse aspen stand with a good hardwood component. Previous examiner stated it seemed small for it's age, and I agree. Some live and dead ash.																																																														
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17	3105 - Mixed Upland Herbaceous	Nonstocked	20.5		Immature	Managed Opening	Great opening for wildlife (slight rolling hills) with cherry, pine and hawthorn scattered throughout, lots of spotted knapweed mixed with little blue stem.																																																														
18	3105 - Mixed Upland Herbaceous	Nonstocked	1.7			No	Old landing for the surrounding aspen harvest, reverting back to forest.																																																														
19	4139 - Aspen, Mixed Deciduous	Poletimber Well	22.9	60	111-140	N/A	This was originally typed as part of the hardwood stand to the east. Upon a walk through it was evident this area has a heavy aspen component.																																																														
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20	3105 - Mixed Upland Herbaceous	Nonstocked	6.7		Immature	No	Old landing for adjacent timber sale. Opening with a few scattered hardwoods coming in.																																																														
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21	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	63.2	30	1-50	N/A	Harvested red pine plantation converting to hardwood. Patchy stocking of saplings and poles. BAs were 60, 40, 10, 40, 30.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	11	Sapling	2	
Jack Pine	2	Pole	8	
Ironwood	10	Sapling/Pole	3	
White Pine	2	Sapling	1	
Sugar Maple	13	Sapling/Pole	2	30
Red Pine	5	Log	16	95
Red Pine	2	Sapling	1	
Red Oak	7	Pole/Sapling	7	
Red Maple	5	Pole/Sapling	6	
American Elm	1	Sapling	3	
Black Cherry	7	Sapling/Pole	3	
Beech	2	Sapling	3	
Balsam Fir	5	Sapling/Pole	4	
White Pine	2	Pole	8	
Paper Birch	8	Pole/Sapling	5	
Red Maple	10	Sapling	2	33
Basswood	1	Sapling	1	
White Pine	5	Log	11	
Serviceberry (Juneberry)	2	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	4130 - Aspen	Sapling Medium	38.6	3	Immature	N/A	Harvested summer 2021, pockets of sub merchantable balsam, spruce, cherry, and wildlife shrubs left scattered throughout. For the age the new, regeneration is doing very well.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	3	Sapling	1	
Rock Elm	3	Pole/Sapling	5	
Red Oak	1	Sapling	1	2
Serviceberry (Juneberry)	4	Sapling	1	
Black Cherry	7	Sapling	1	
Black Cherry	1	Pole	7	
Ironwood	1	Sapling/Pole	4	
Quaking Aspen	60	Sapling	1	3
American Elm	1	Sapling/Pole	3	
Red Maple	13	Sapling	1	
Red Oak	1	Pole/Log	8	
Balsam Fir	4	Sapling	1	
Red Maple	1	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	Low	Unspecified	Non-Wood
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Goldenrod spp.	Low	Unspecified	Non-Wood
Wild Red Raspberry	Low	< 5 feet	Tall Shrub
Canada Thistle	Trace	Unspecified	Non-Wood





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<b>23</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	120.8	100	51-80	N/A	Thinned in 2009. Good hemlock component. All Ash and alot of beech has died out, lowering the overall BA of this stand. Some Beech seem perfectly healthy, while some that look this way have recently suffered from beech snap.  Oak ridge directly to the South was split out from this stand in 2024.  Terrain rather steep in some places.																																																																																	
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<b>25</b>	500 - Water	Nonstocked	27.4			No	Beaver activity has created a variable waterscape consisting of anything from open water to emergent herbaceous to flooded timber. Lots of mortality but still some live fir, spruce and cedar. Small spring on n edge of st9. Appears historic beaver flood created this																																																																																	
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<b>26</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	262.3	113	81-110	N/A	A majority of this stand was thinned in the last entry or so, a few orange painted trees were found. Ash was previously 8% of the canopy, which has since died. With the addition of beech mortality the stand's BA has been rather impacted.  Terrain rather steep in some places.																																																																																	
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<b>27</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	230.1	105	51-80	N/A	Harvested in the fall 2019/winter 2020. Ash and beech was salvaged besides a few marked beech to leave. Previously a pole stand, harvesting has shifted this stand into more log sized.  Previous inventory had ironwood and beech as low in the understory which are now the dominating species.																																																																																	
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Beech	1	Log/Pole	10																																																																																					
Sugar Maple	50	Log/Pole	11	105																																																																																				
Ironwood	5	Pole	6																																																																																					
Red Maple	10	Pole	8																																																																																					
Bigtooth Aspen	3	Pole	7																																																																																					
Basswood	27	Log/Pole	10																																																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																																																					
Sugar Maple	Low	5 - 10 feet	Sapling																																																																																					
Striped Maple	Trace	Variable	Sapling																																																																																					
Basswood	Low	Variable	Sapling																																																																																					
White Ash	Medium	Variable	Sapling																																																																																					
Black Cherry	Low	Variable	Sapling																																																																																					
Bigtooth Aspen	Low	Variable	Sapling																																																																																					
Ironwood	Medium	Variable	Sapling																																																																																					
Wild Red Raspberry	High	5 - 10 feet	Tall Shrub																																																																																					
Beech	High	Variable	Sapling																																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>28</b>	4110 - Sugar Maple Association	Sawtimber Well	241.1	105	51-80	N/A	Thinning completed in September 2021, harvested primarily by hand crew over a few years (Block #2 Hardwoods). Previously a pole stand, thinning has shifted this stand into more log sized. Rolling slopes turn transitions to steep hills the farther east you go. White Ash was previously 8% of canopy.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	5	Pole	5		Black Cherry	Low	Variable	Sapling
Sugar Maple	57	Log/Pole	11	105	Striped Maple	Low	Variable	Sapling
Red Maple	2	Pole	8		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Basswood	25	Pole/Log	9		White Ash	Low	Variable	Sapling
Beech	3	Log/Pole	11		Basswood	Trace	< 5 feet	Sapling
Bigtooth Aspen	5	Pole	7		Beech	High	Variable	Sapling
American Elm	1	Log	12		Sugar Maple	Low	< 5 feet	Sapling
Quaking Aspen	2	Log/Pole	10		Ironwood	High	Variable	Sapling

<b>29</b>	4110 - Sugar Maple Association	Poletimber Well	33.1	105	81-110	N/A	BA and percentages derived from 173 QD plots. Understory saplings are ubiquitous but stocking is highly variable. Very large stand, only editing to remove portions that have been harvested.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Pole	7		Black Cherry	Low	Variable	Sapling
Beech	7	Log/Pole	10		Ironwood	Low	Variable	Sapling
Red Maple	2	Pole	8		Beech	Low	Variable	Sapling
Basswood	25	Pole/Log	9		White Ash	Low	Variable	Sapling
Quaking Aspen	2	Log/Pole	10		Sugar Maple	Low	Variable	Sapling
Sugar Maple	53	Pole/Log	9	105				
White Ash	8	Pole/Log	9					

<b>30</b>	4123 - Red Oak	Sawtimber Well	55.2	101	111-140	N/A	Mostly a South facing slope historically oak and beech, beech dying out due to BBD (still alot alive). Good amount of SM saplings in understory above browse. Ironwood & beech is not too overwhelming in understory. Understory most dense on flatter ground along road.  QD was taken for this stand, PDF attached.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	1	Pole	8		Beech	Medium	Variable	Sapling
Quaking Aspen	2	Log	12		White Ash	Trace	5 - 10 feet	Sapling
Beech	7	Pole/Log	9		Sugar Maple	Medium	Variable	Sapling
Red Maple	5	Pole/Log	9		Ironwood	Medium	Variable	Sapling
Red Oak	75	Log	14	101				
Hemlock	1	Log	16					
Sugar Maple	5	Log/Pole	10					
Basswood	4	Pole/Log	8					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>32</b>	4123 - Red Oak	Sawtimber Well	41.1	106	141-170	N/A	Previously part of the surrounding M8 complex, but this is actually a SW facing ridge dominated by oak. QD was taken in this stand and is attached as a PDF.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Beech		2	Pole/Log	9		Sugar Maple		
Red Oak		60	Log/Pole	12	106	Low		
Hemlock		17	Log	13		< 5 feet		
Ironwood		2	Pole	6		Sapling		
Black Cherry		1	Log	11		White Ash		
Sugar Maple		10	Log/Pole	10		Low		
Basswood		6	Pole	8		< 5 feet		
Red Maple		2	Pole	6		Sapling		
<b>33</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	117.3	113	111-140	N/A	Appears to be a pole stand leaning towards sawlog. No evidence of a previous thinning's.  Northern portion has some nice sugar maple saplings regeneration, southern portion more typical ironwood/beechness problem. White ash was previously 8% of the canopy lots of dead and down from beech and ash mortality  QD was taken in this stand, PDF attached.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Beech		3	Pole/Log	9		Sugar Maple		
Red Maple		5	Pole	6		Medium		
Black Cherry		5	Pole/Log	9		Variable		
Hemlock		3	Log	13		Sapling		
Basswood		15	Pole	8		Low		
Sugar Maple		51	Pole/Log	9	113	< 5 feet		
Ironwood		8	Pole	6		Sapling		
Red Oak		10	Log/Pole	11		Variable		
<b>34</b>	4319 - Mixed Upland Forest	Sapling Medium	4.2	20	Immature	N/A	Old pasture land converting to sugar maple and red pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		50	Sapling	4		Sedges		
Sugar Maple		50	Sapling	2	20	Medium		
						Unspecified		
						Non-Wood		
<b>35</b>	4110 - Sugar Maple Association	Poletimber Well	57.0	105	81-110	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		53	Pole/Log	9	105	Ironwood		
Red Maple		2	Pole	8		Low		
White Ash		8	Pole/Log	9		Variable		
Beech		7	Log/Pole	10		Sapling		
Basswood		25	Pole/Log	9		Black Cherry		
Quaking Aspen		2	Log/Pole	10		Low		
Bigtooth Aspen		3	Pole	7		Variable		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>36</b>	4110 - Sugar Maple Association	Poletimber Well	409.3	105	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Ash	8	Pole/Log	9	
Beech	7	Log/Pole	10	
Quaking Aspen	2	Log/Pole	10	
Bigtooth Aspen	3	Pole	7	
Red Maple	2	Pole	8	
Sugar Maple	53	Pole/Log	9	105
Basswood	25	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
White Ash	Low	Variable	Sapling
Ironwood	Medium	Variable	Sapling
Beech	Medium	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling

SW Portion was part of the sale Almost There HDWDS but was never cut and turned back into the state. The NE corner has been thinned a few times, the past few entries. Some orange trees are still evident. Multiple BA swings average of 90 Sq. Ft. / Acre Terrain rather steep in some places.

<b>37</b>	4110 - Sugar Maple Association	Poletimber Well	20.7	105	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Beech	7	Log/Pole	10	
Basswood	25	Pole/Log	9	
Red Maple	7	Pole	8	
Sugar Maple	56	Pole/Log	9	105
Quaking Aspen	2	Log/Pole	10	
Bigtooth Aspen	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Ash	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Beech	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling

<b>38</b>	4110 - Sugar Maple Association	Poletimber Well	21.7	105	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	8	
Basswood	25	Pole/Log	9	
Beech	7	Log/Pole	10	
Sugar Maple	53	Pole/Log	9	105
White Ash	8	Pole/Log	9	
Quaking Aspen	2	Log/Pole	10	
Bigtooth Aspen	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Beech	Low	Variable	Sapling
White Ash	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling