



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52036

Entry Year 2024

Acreage: 2,507

County Charlevoix

Management Area: Chandler Hills

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**Stand Examiner:** Doug Tyran

**Legal Description:**

T33N R04W Sec. 5-8, 17 & 18

**Identified Planning Goals:**

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

**Soil and topography:**

Primary soil types are Leelanau-Emmet or Kalkaska-Leelanau with pockets of Mancelona Sand and organic soils along the Springbrook. The major cover type is Northern Hardwood. The west half of the compartment is hilly with 18-30% slopes. The North Branch of the Springbrook flows through the center of the east half resulting in more gentle slopes along the flood plain.

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

Land to the east and west of the compartment is primarily state owned forest. The half section of private ownership in the center of the compartment is mostly pastureland. Large areas of conifer swamps and steep slopes have prevented the development of land around this compartment.

**Unique Natural Features:**

RSH nesting records to N and E of compartment with potential throughout compartment in M and A types. RSH records to the east of 17 and to the north of section 6. Potential for wood turtle and Blanding's turtle associated with Spring Brook and N types. Potential for goshawk in hardwoods. Potential for rare plants of rich mesic forests: Carex assiniboinensis, showy orchis, Ginseng, Goblin Fern. Potential for calypso bulbosa, round leaved orchid, Michigan Monkey Flower, limestone oak fern and Cyripedium arietinum in cedar and q types.

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

Old railroad grades can be found in several locations.

**Special Management Designations or Considerations:**

This compartment is part of the Chandler Hills Management Area.

**Watershed and Fisheries Considerations:**

The North Branch of Spring Brook is located within this compartment. Spring Brook is a designated trout stream that boasts a high quality brook trout fishery. The trout population in Spring Brook is supported by natural reproduction and it is not stocked. To keep this stream in good condition it is critical that the appropriate BMP's and buffers are strictly adhered to. Intermittent streams and wetland areas should also be protected.

**Wildlife Habitat Considerations:**

This compartment consists of an upland area consisting of a northern hardwoods and aspen and a large wetland complex that runs through the center of the compartment. This wetland is used by numerous furbearers, white-tailed deer, and a variety of amphibian and songbird species. There will be a few aspen treatments within this compartment to maintain age class diversity. This early successional habitat benefits white-tailed deer, wild turkey, grouse, woodcock, and various songbirds. The hardwoods in this compartment have all been treated in the past twenty years and have a lot of structural diversity.

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

Surface sediments consist of coarse-textured glacial till (uplands) and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift is the Antrim Shale that is quarried for cement products elsewhere in the State. One gravel pit is located on the moraine deposits to the north and upland areas appear to have potential. Oil and gas potential in the area is primarily for the Collingwood and Utica Formations. The Antrim Shale gas play is located eight miles to the south and the upper limit of the Antrim Shale subcrops in this area. All of the State land in the area is currently leased for oil and gas development.

**Vehicle Access:**

Many forest access routes. Not coined as forest roads because they are very rutted / in poorish condition.

**Survey Needs:**

Some work may be needed in Section(s): 5, 6, 7, 8 & 17

**Recreational Facilities and Opportunities:**

There is a motorcycle trail in Sections 6-18. A snowmobile trail passes through Sections 8, 17 & 18. It's quite poplar.

**Fire Protection:**

Minimal due to cover types that are not conducive to fire (hardwoods & swamps).

**Additional Compartment Information:**

None at this time.

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

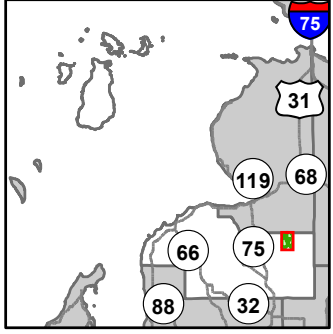
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

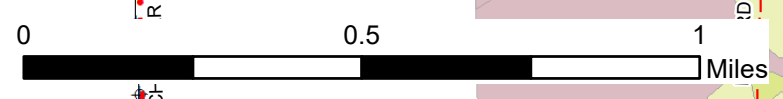
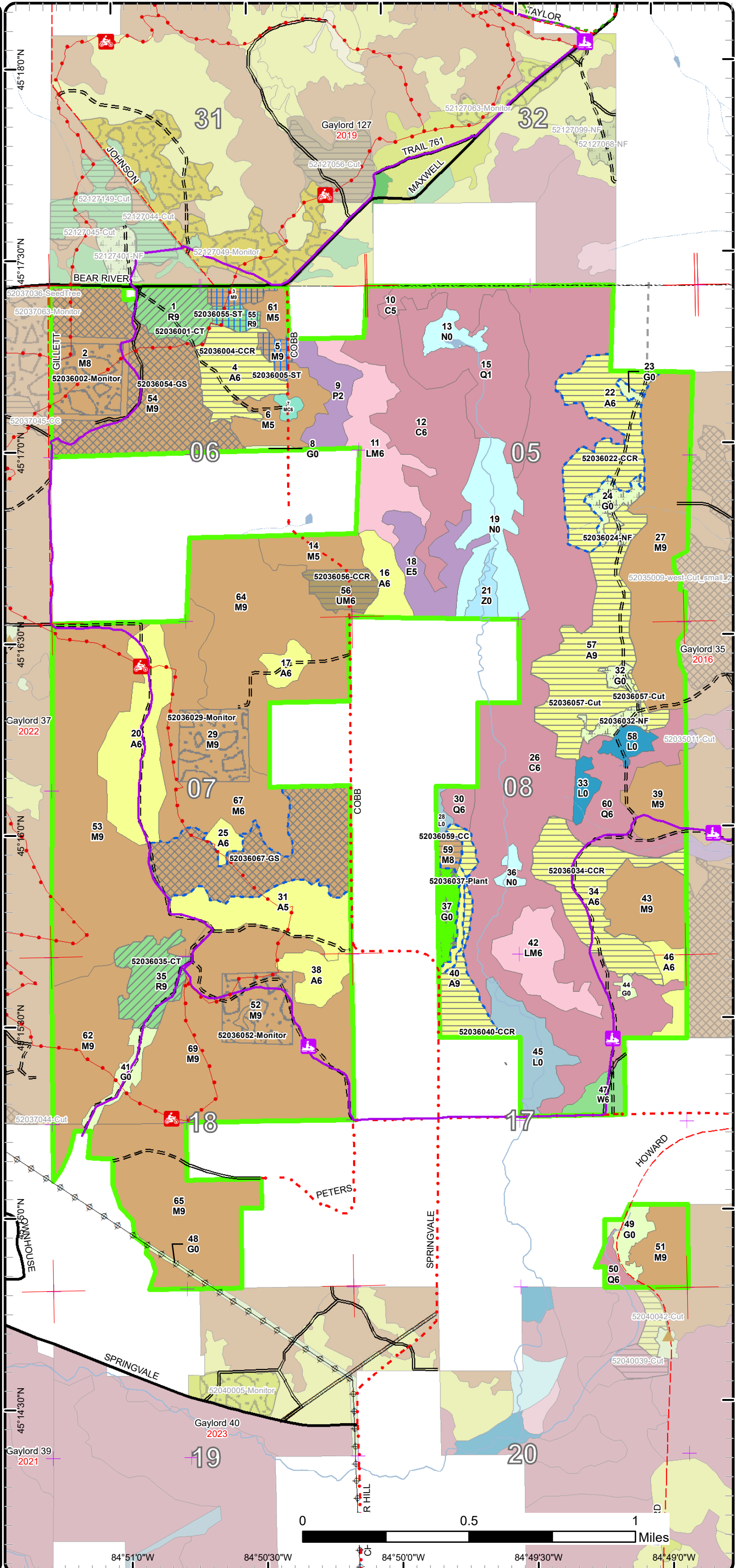
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 36  
 T33N, R04W, Sec. 5-8, 17, 18  
 County: Charlevoix  
 Unit: Gaylord  
 Mgmt Area: Chandler Hills  
 YOE: 2024  
 Acres: 2507.3 GIS Calculated  
 Examiner: Doug Tyran  
 Map Revised: 11/15/2022  
 Map Phase: Post-Review



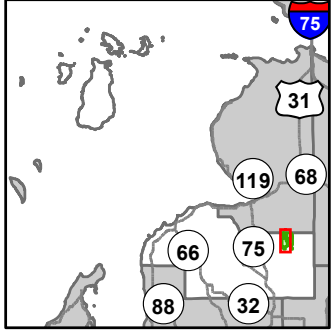
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
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- County - Dirt Road (Seasonal)
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- ▲ Berms
- Culvert
- Pipeline
- ⚡ Powerline
- Burn Boundary
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 211 - Cropland
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland



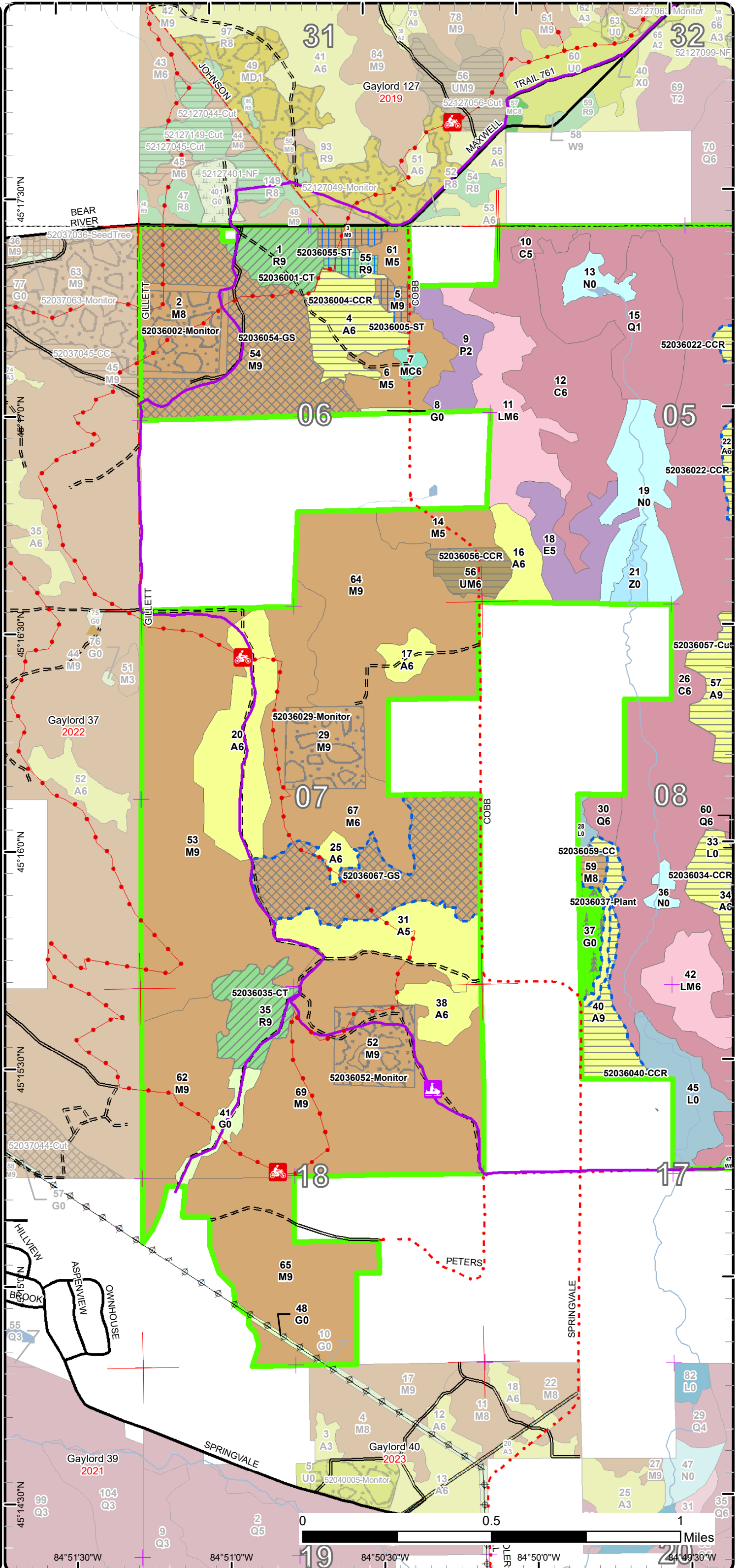
84°51'0"W    84°50'30"W    84°50'0"W    84°49'30"W    84°49'0"W

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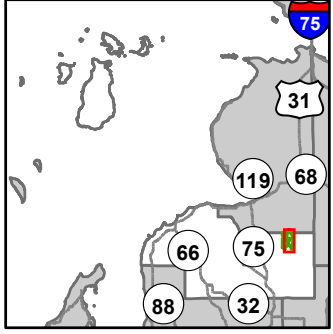


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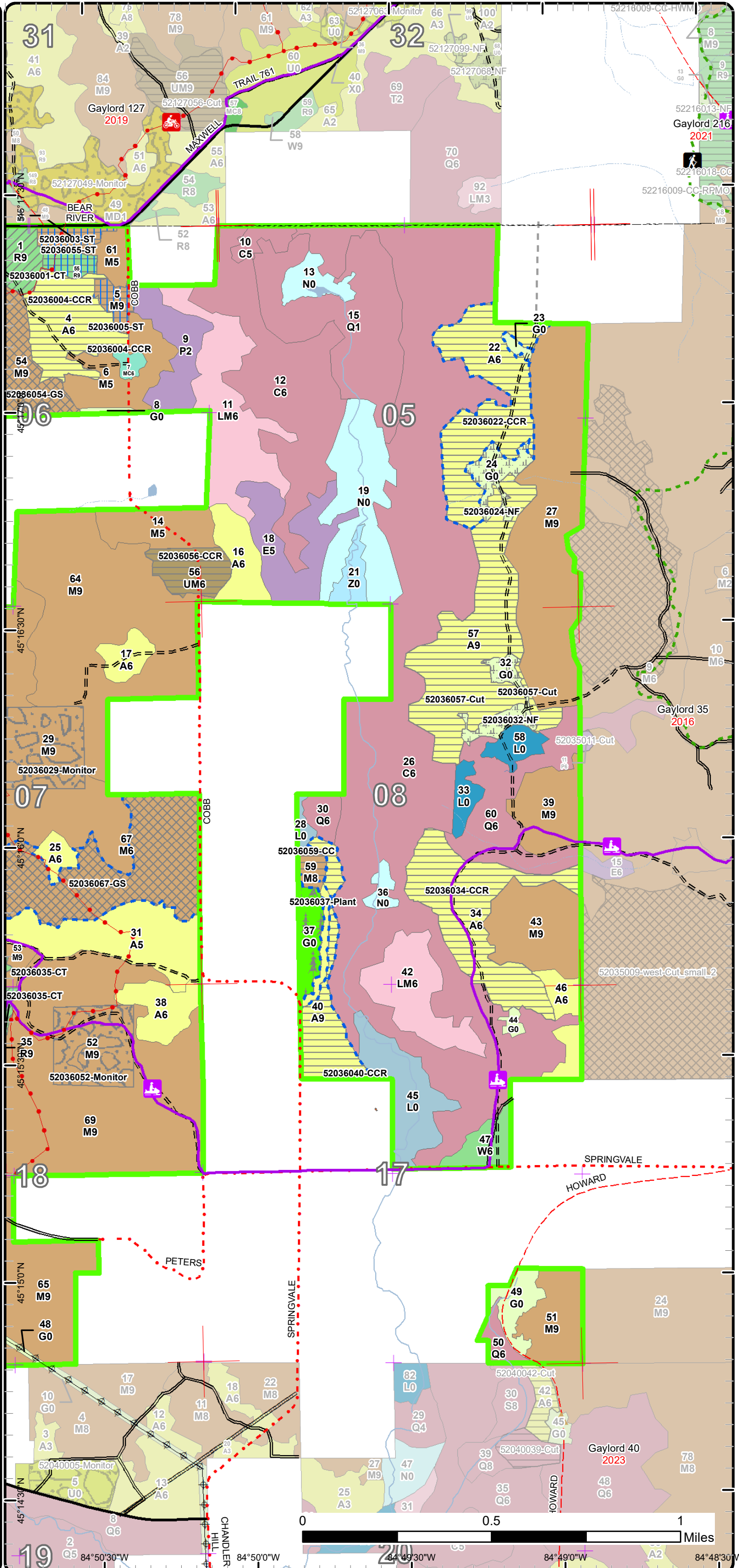


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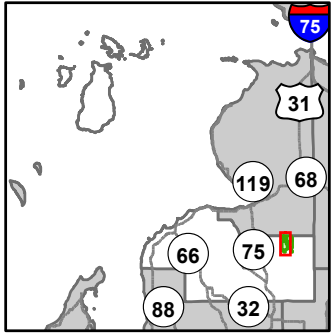
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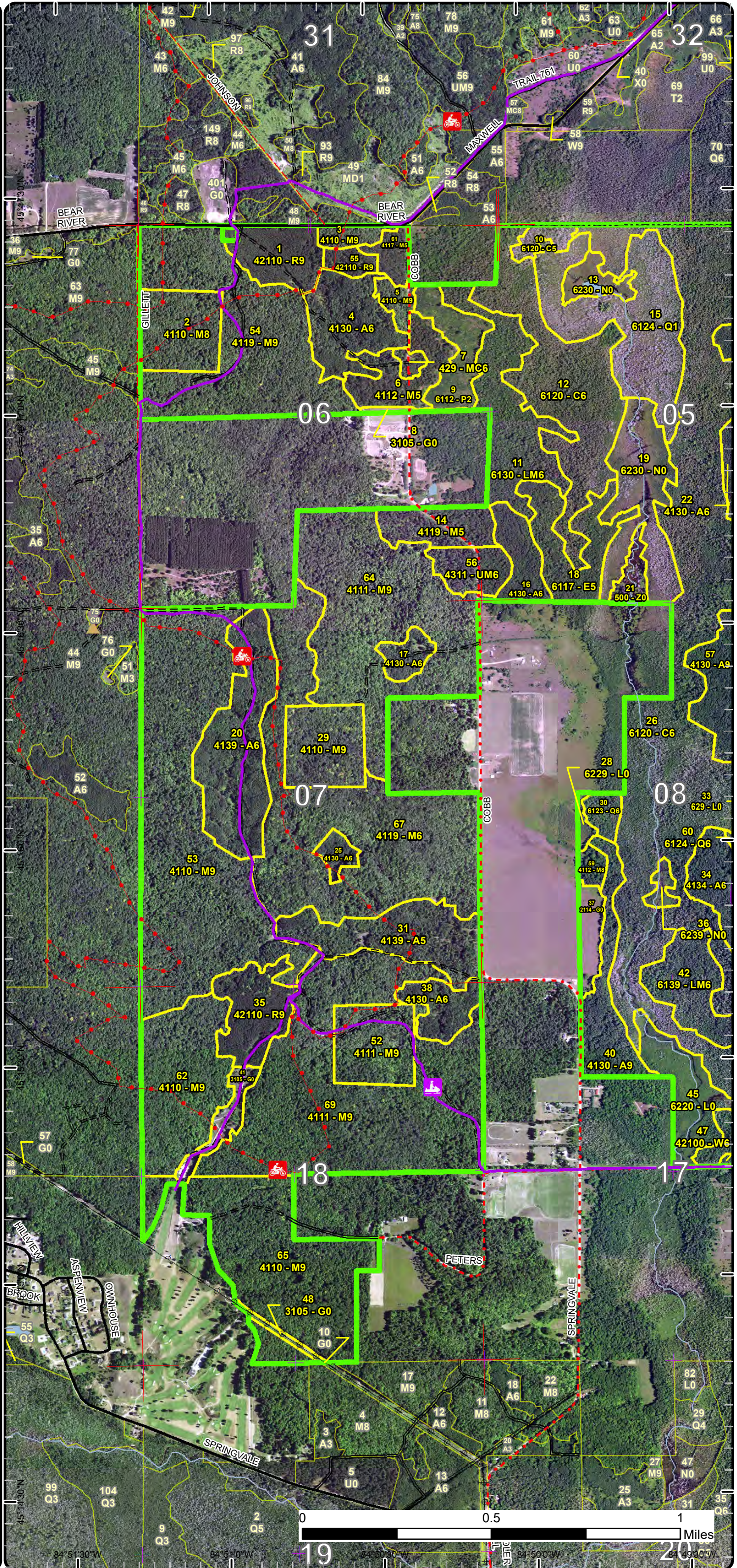
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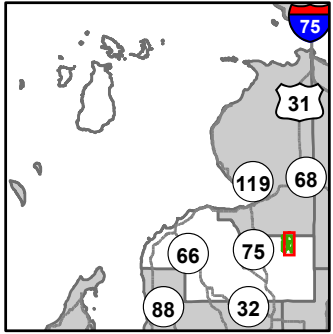


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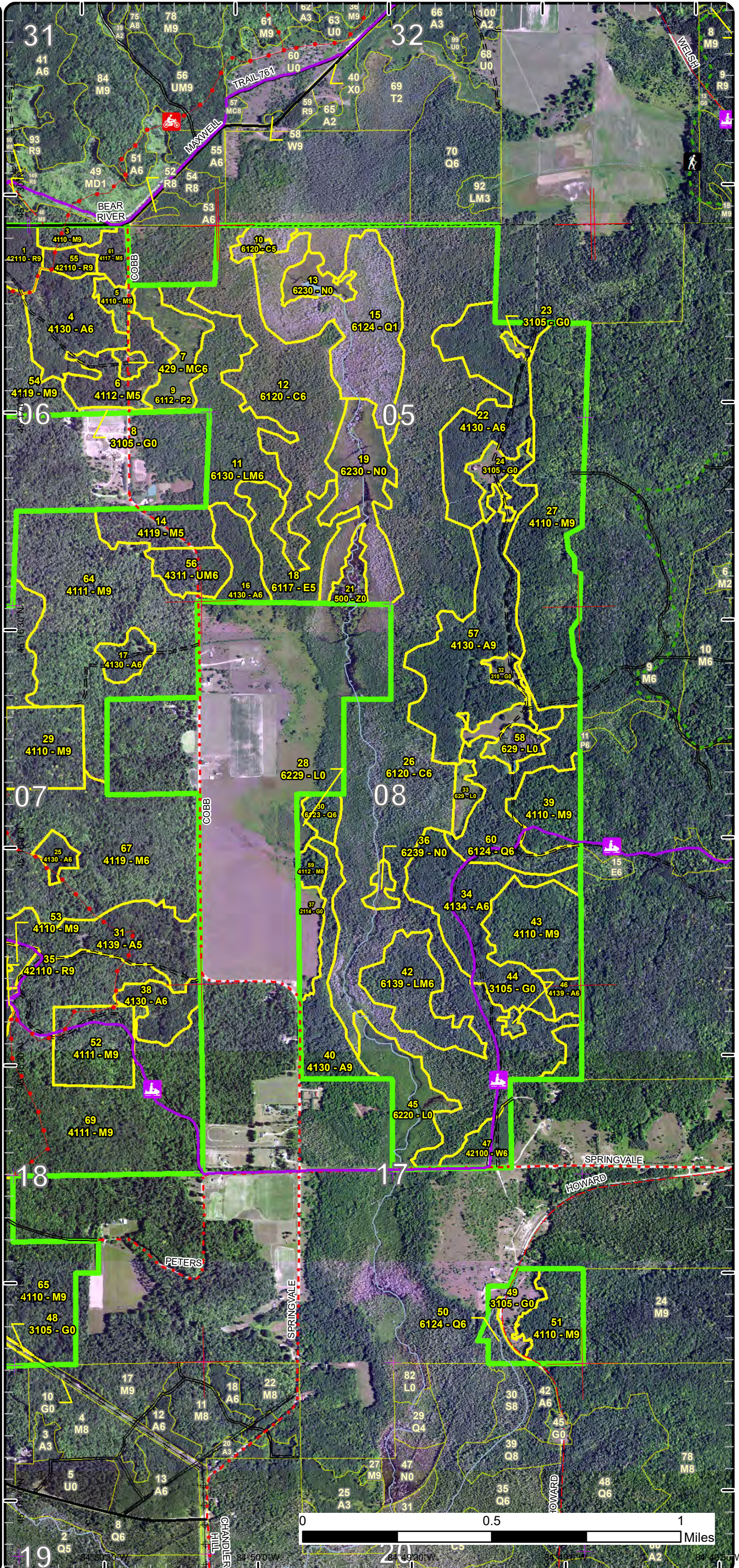


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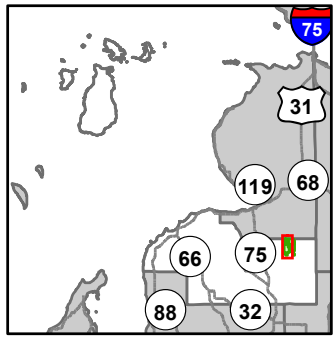


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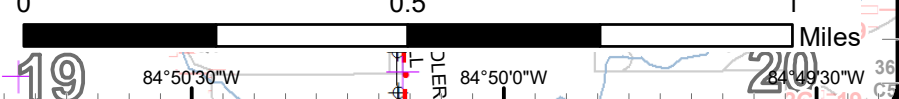
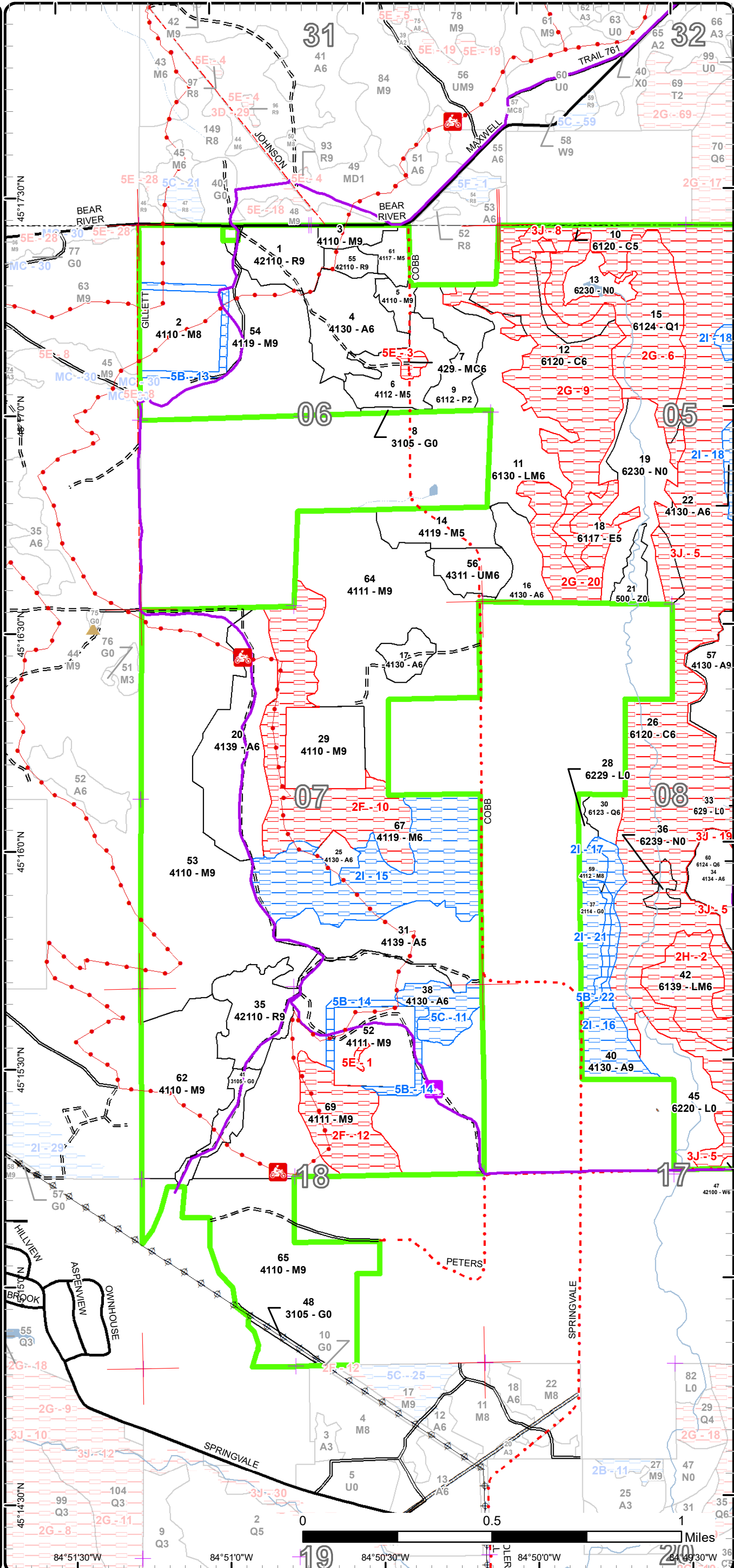


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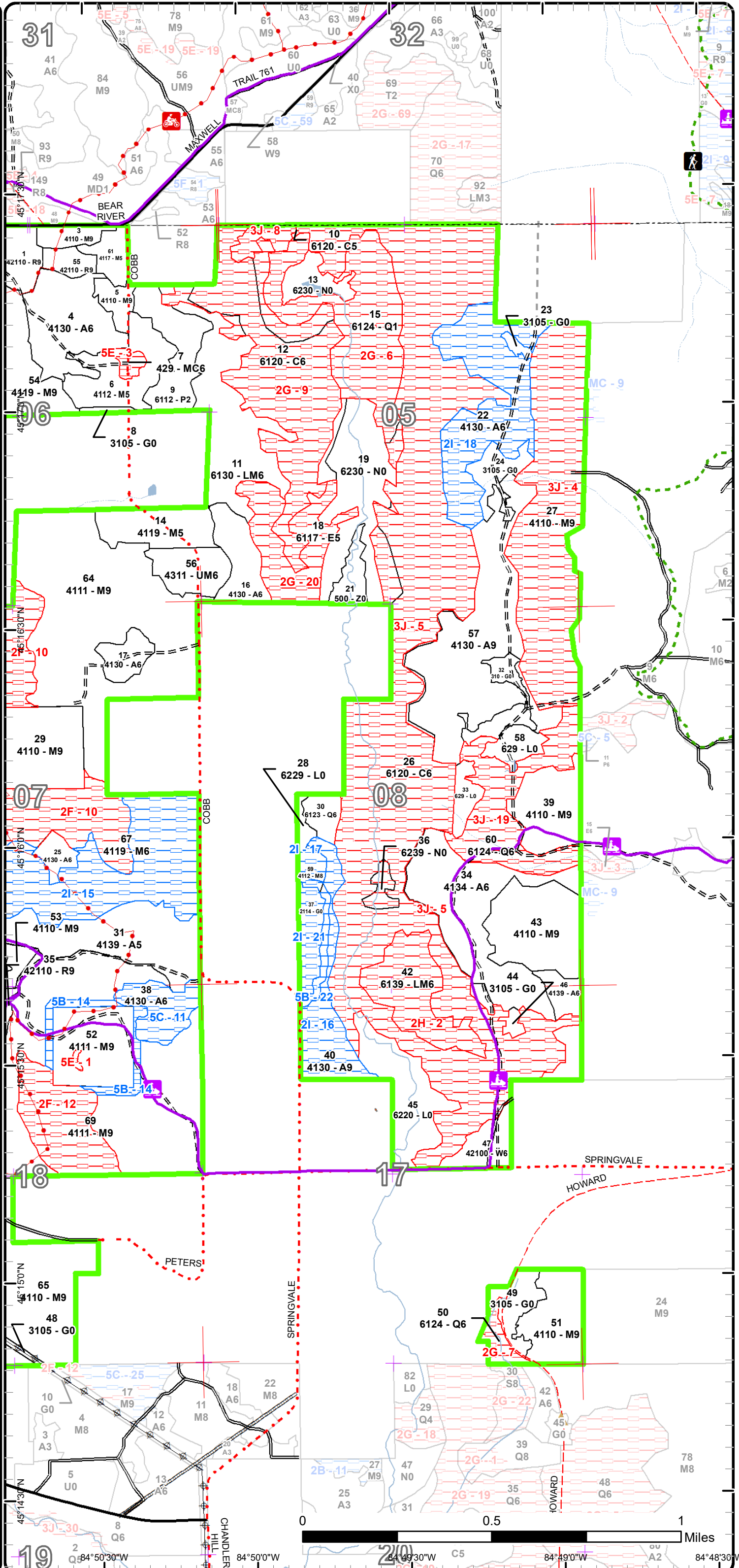
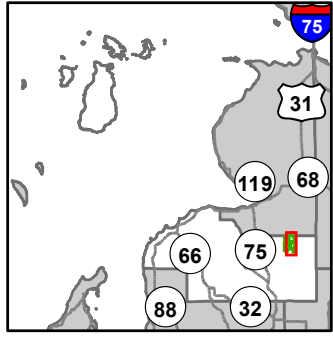
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- Available w/ Constraints
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access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





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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	118	79	0	176	29	0	0	0	0	0	0	0	0	0	402
Cedar	0	0	0	0	0	0	0	0	0	0	0	406	0	6	0	0	0	0	412
Cropland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	67	0	0	0	48	0	6	0	0	0	0	0	0	0	0	0	121
Lowland Deciduous	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Mixed Forest	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Marsh	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Northern Hardwood	0	0	0	0	0	20	32	5	0	678	338	22	96	0	0	0	0	0	1190
Red Pine	0	0	0	0	0	0	0	50	0	0	6	0	0	0	0	0	0	0	56
Upland Conifers	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>167</b>	<b>21</b>	<b>67</b>	<b>11</b>	<b>149</b>	<b>179</b>	<b>80</b>	<b>234</b>	<b>35</b>	<b>693</b>	<b>344</b>	<b>428</b>	<b>96</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2508</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 36

Total Compartment Acres: 2,507

Commercial Harvest - 340  
 Harvests with Site Condition - 159  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	239	0	0	0	0	0	0	0	0	239
Northern Hardwood	4	174	0	13	0	0	0	0	0	190
Red Pine	0	0	0	6	0	50	0	0	0	55
Upland Mixed Forest	15	0	0	0	0	0	0	0	0	15
<b>Total</b>	<b>257</b>	<b>174</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>499</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	499	0	10	0	0	0	85	0	19	613
Next Step	0	0	184	0	0	184	546	0	0	914
<b>Total</b>	<b>499</b>	<b>0</b>	<b>194</b>	<b>0</b>	<b>0</b>	<b>184</b>	<b>632</b>	<b>0</b>	<b>19</b>	<b>1527</b>



Stand Name	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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**Approved Treatments:**

<b>1</b>	<b>52036001-CT</b>	22.4	42110 - Planted Red Pine	Sawtimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 120BA . Mark suppressed / poor formed trees first.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Add recreational trail spec.</p> <p><u>Comment:</u> Add raptor spec. MNFI hit (sighting off Maxwell Road), no nest found during inventory.</p> <p>Goal is to increase crown spacing for residual trees to put on diameter growth before final harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>2</b>	<b>52036002-Monitor</b>	28.7	4110 - Sugar Maple Association	Sawtimber Medium	88	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> MSU conducting follow up monitoring treatments.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A diverse mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>3</b>	<b>52036003-ST</b>	6.4	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Seed Tree	4110 - Sugar Maple Association	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" and up, except mark to leave large seed trees (sugar maple, basswood, cherry, yellow birch, hemlock) to achieve 10-30 sq. ft/ac. No retention due to stand size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, Basswood, Cherry, Yellow Birch, Aspen that meet minimal acceptable stocking requirements.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add recreational trail spec.</p> <p><u>Comment:</u> Add raptor spec. MNFI hit (sighting off Maxwell Road). No nest found during inventory.</p> <p>Cut in snow-off conditions to scarify soil</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>4</b>	<b>52036004-CCR</b>	33.2	4130 - Aspen	Poletimber Well	67	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand, cut all trees 2" and up, leave 3-10% area retention

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, Fir, Cherry & Basswood that meet minimum stocking requirements.

Regen:

Other Add grouse/hard/deer log spec.

Comment:

Add recreational trail spec.

Add raptor spec. MNFI hit (sighting off Maxwell Road), no nest found during inventory.

Site Condition

Proposed Start Date: 10/1 /2023

<b>5</b>	<b>52036005-ST</b>	6.1	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Seed Tree	4117 - Mixed N. Hardwood - Pine	Even-Aged	No
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Prescription Cut all trees 2" and up, except mark to leave seed trees (sugar maple, red pine, basswood, hemlock) to achieve 10-30 sq. ft/ac. No retention due to stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, Red Pine, Basswood, Hemlock, Aspen that meet minimum acceptable stocking requirements.

Regen:

Other Add raptor spec. MNFI hit (sighting off Maxwell Road). No nest found during inventory.

Comment:

Cut in snow-off conditions to scarify soil

Site Condition

Proposed Start Date: 10/1 /2023

<b>22</b>	<b>52036022-CCR</b>	54.6	4130 - Aspen	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand, cut all trees 2" and up, leave 3-10% area retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, & Fir that meet minimum stocking requirements.

Regen:

Other Add grouse/hare/deer log spec

Comment:

A few culverts and road work is needed to harvest this timber. If the road is not fixed by sale prep add excessive road costs into the VMS proposal. A scope of work was created in COPS and was pending potential approval on 7/14/2022.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>24 52036024-NF</b>	9.7	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and/or soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>29 52036029-Monitor</b>	28.9	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> MSU conducting follow up monitoring treatments.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A diverse mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>32 52036032-NF</b>	9.5	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and/or soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34	52036034-CCR	53.0	4134 - Aspen, Spruce/Fir	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, cut all trees 2" and up, leave 3-10% area retention.  <u>Specs:</u> Require purchaser to pushover boundary trees along the swamp to create habitat.                      Opportunistically extend boundary into stand 43 (directly to the east), to regenerate the more mature aspen along the edge.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Fir, &amp; Maple that meet minimum stocking requirements.  <u>Other</u> Add recreational trail spec.  <u>Comment:</u> Add grouse/hare/deer spec.</p> <p>Follow geometry along NE arm &amp; W portion of treatment during implementation. Designed to stay off of wet ground.</p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											
35	52036035-CT	27.1	42110 - Planted Red Pine	Sawtimber Well	62	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 120 BA. Mark suppressed / poor formed trees first.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable Regen:</u> Red Pine  <u>Other</u> Add recreational trail spec.  <u>Comment:</u> Goal is to increase crown spacing for residual trees to put on diameter growth before final harvest.</p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											
37	52036037-Plant	10.1	2114 - Other Cropland	Nonstocked		Unspecified	Planting	Initial Plant	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Plant to seed orchard.  <u>Specs:</u>  <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant  <u>Treatments:</u>  <u>Acceptable Regen:</u> Desirable trees TBD  <u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed  <u>Proposed Start Date:</u> 10/1 /2022</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
40	52036040-CCR	24.6	4130 - Aspen	Sawtimber Well	72	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, cut all trees 2" and up, leave 3-10% area retention on the south end near the houses along Cobb Road.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Maple, Cherry, &amp; Fir that meet minimum stocking requirements.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add grouse/hare/deer log spec.</p> <p><u>Comment:</u> Stay on upland ground for east boundary.</p> <p>Do not include the area site conditioned along the opening. This is to prevent aspen regeneration into the planned planting area.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
52	52036052-Monitor	27.8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	87	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> MSU conducting follow up monitoring treatments.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A diverse mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
54	52036054-GS	97.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	88	111-140	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Put in large regeneration gaps as a means to get desirable regeneration. The goal is to have 30% of the stand harvested.</p> <p><u>Specs:</u> Gaps should be between .5-4.5 acres. Cut all trees that are 6 ft. and taller within the gaps.</p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, Basswood, Black Cherry, Birch that meet minimum stocking requirements.</p> <p><u>Regen:</u> If regen. gaps don't meet the above stocking, supplemental species planting is acceptable.</p> <p><u>Other</u> Require harvesting in snow-off conditions to increase scarification.</p> <p><u>Comment:</u> In areas with poor regeneration opportunistically herbicide/ plant to oak / conifer.</p> <p>Request producer to pile tops on sugar maple stumps.</p> <p>Add recreational trail spec.</p> <p>Add raptor spec. MNFI hit (sighting off Maxwell Road), no nest found during inventory.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>55</b>	<b>52036055-ST</b>	5.7	42110 - Planted Red Pine	Sawtimber Well	90	141- 170	Harvest	Seed Tree	4117 - Mixed N. Hardwood - Pine	Even-Aged	No
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Prescription Cut all trees 2" and up, except mark to leave seed trees (red pine) to achieve 10-30 sq. ft/ac. No retention due to stand size.  
Specs:

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

Acceptable Regen: Maple, Red Pine, Cherry, Aspen that meet minimum stocking requirements.

Other Comment: Add recreational trail spec.

Add regeneration protection spec.

Add raptor spec. MNFI hit (sighting off Maxwell Road), no nest found during inventory.

Site Condition

Proposed Start Date: 10/1 /2023

<b>56</b>	<b>52036056-CCR</b>	14.6	4311 - Pine, Aspen Mix	Poetimber Well	85	141- 170	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Cut all trees 2" and up. Leave 2 or more retention pockets for a seed source for hardwood species. Total pockets should be at least 1 acre in size.  
Specs:

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

Acceptable Regen: Aspen, Maple, Basswood, Birch, Pine that meet minimum stocking requirements.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>57</b>	<b>52036057-Cut</b>	73.9	4130 - Aspen	Sawtimber Well	68	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand, cut all trees 2" and up, leave 3-10% area retention.  
Specs:

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

Acceptable Regen: Aspen, Maple, & Fir that meet minimum stocking requirements.

Other Comment: Add grouse/hare/deer log spec. No need to mark/paint boundary along opening.

A few culverts and road work is needed to harvest this timber. If the road is not fixed by sale prep add excessive road costs into the VMS proposal. A scope of work was created in COPS and was pending potential approval on 7/14/2022.

Site Condition

Proposed Start Date: 10/1 /2023



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
59	52036059-CC	3.5	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	66	51-80	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 size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Maple, Cherry, &amp; Fir that meets minimum stocking requirements.</p> <p><u>Regen:</u></p> <p><u>Other</u> Set up with the stand to the east. Goal is for these two stands to become one new stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
67	52036067-GS	76.3	4119 - Mixed Northern Hardwoods	Poletimber Well	92	111-140	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Put in large regeneration gaps as a means to get desirable regeneration. The goal is to have 30% of the stand harvested.</p> <p><u>Specs:</u></p> <p>Gaps should be between .5-4.5 acres. Cut all trees that are 6 ft. and taller within the gaps.</p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, Basswood, Black Cherry, Birch, Pine &amp; Oak that meet minimum stocking requirements.</p> <p><u>Regen:</u></p> <p>If regen. gaps don't meet the above stocking, supplemental species planting is acceptable.</p> <p><u>Other</u> Require harvesting in snow-off conditions to increase scarification.</p> <p><u>Comment:</u></p> <p>Request producer to pile tops on sugar maple stumps.</p> <p>Add recreational trail spec</p> <p>In areas with poor regeneration opportunistically herbicide/ plant to oak / conifer.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

**Total Treatment Acreage Proposed: 613.3**

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Doug Tyran : Examiner

Compartment: 36  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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### Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions								
					2I	5B	5C	2F	2G	2H	3J	5E	
402	304	99	0	Aspen	79	4	15					0	
412	7	0	405	Cedar					78			327	
11	1	10	0	Cropland	10								
48	48	0	0	Herbaceous Openland									
21	21	0	0	Lowland Aspen/Balsam Poplar									
120	6	0	114	Lowland Conifers					73			41	
30	0	0	30	Lowland Deciduous					30				
80	45	0	35	Lowland Mixed Forest					4	31			
45	45	0	0	Lowland Shrub									
57	47	0	10	Marsh								10	
1192	896	97	199	Northern Hardwood	80	18		102				96	1
55	55	0	0	Red Pine									
3	0	0	3	Upland Conifers									3
15	15	0	0	Upland Mixed Forest									
7	7	0	0	Water									
11	11	0	0	White Pine									
2,511	1,508	206	796	Total Forested Acres	170	22	15	102	185	31		474	4
	60%	8%	32%	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	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Seasonally intermittent stream with seep. Defined high water marks/banks and some blow down within this feature. Red lined to keep harvesting equipment out of.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Doug Tyran : Examiner

Compartment: 36  
Year of Entry: 2024

2	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is beaver activity in the area. This stand might be accessible in a year when beaver are absent and the water table is down. This area does not seem to freeze down in winter.							
3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is retention for the immediately surrounding pine clear cut.							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	96	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Various drainages throughout. Heavy equipment entry would be very questionable.							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	330	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> North branch of the Springbrook runs through portions of stand. Also numerous small seeps and feeder streams that tie into the Springbrook.							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lots of beaver activity per stand comments							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Doug Tyran : Examiner

Compartment: 36  
Year of Entry: 2024

8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	90	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2F: Too steep</b>	69	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area is very steep making any harvesting activities questionable.							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold this stand to harvest with the adjoining aspen to the north.							
12	<b>Unavailable</b>	<b>2F: Too steep</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a buffer zone for the Walters project directly to the west.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Doug Tyran : Examiner

Compartment: 36  
Year of Entry: 2024

14	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a buffer zone for the immediately surrounding Walters Project.							
15	<b>Available</b>	<b>2I: Survey needed</b>	76	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey most likely needed. Revisit for survey corners this spring.							
16	<b>Available</b>	<b>2I: Survey needed</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey most likely needed. Revisit for survey corners this spring.							
17	<b>Available</b>	<b>2I: Survey needed</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey most likely needed. Revisit for survey corners this spring.							
18	<b>Available</b>	<b>2I: Survey needed</b>	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey most likely needed. Revisit for survey corners this spring.							
19	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Various drainages throughout. Heavy equipment entry would be very questionable.							
20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Doug Tyran : Examiner

Compartment: 36  
Year of Entry: 2024

21	<b>Available</b>	<b>2I: Survey needed</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> No corner to the north or south.</p>							
22	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> This is a 100" buffer for the planned tree planting to the west. Goal is to prevent aspen creeping into the opening.</p>							

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
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>1</b>	42110 - Planted Red Pine	Sawtimber Well	22.4	65	171-200	N/A	Third row thinned in 1996, thinned in 2004. Thick understory		
<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		100	Log/Pole	11	65	Sugar Maple	High	Variable	Sapling
						Beech	Medium	Variable	Sapling
<b>2</b>	4110 - Sugar Maple Association	Sawtimber Medium	29.1	88	51-80	N/A	MWR stand harvested in the winters of 2017/2018. Residual BA of 76. .15 Ac. gaps established, all tops 9 inches or less left on site.		
<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		50	Log/Pole	11	88	Basswood	Low	< 5 feet	Sapling
Basswood		39	Log/Pole	11	88	White Ash	Medium	< 5 feet	Sapling
American Elm		1	Log	13		Maple Leaved Viburnum	Low	5 - 10 feet	Tall Shrub
Beech		10	Log	14		Ironwood	Medium	Variable	Sapling
						Black Cherry	Low	< 5 feet	Sapling
						Beech	Low	5 - 10 feet	Sapling
						Sugar Maple	Medium	Variable	Sapling
<b>3</b>	4110 - Sugar Maple Association	Sawtimber Well	6.4	85	111-140	N/A	East end of stand was thinned as part of sale 52-023-14-01. The rest of the stand was marked but not completed, sale was turned in.		
<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		52	Log/Pole	11	85	Ironwood	Medium	Variable	Sapling
Basswood		43	Log/Pole	12		Sugar Maple	Medium	Variable	Sapling
Hemlock		2	Log	13		Beech	Low	< 5 feet	Sapling
Yellow Birch		3	Log	11					
<b>4</b>	4130 - Aspen	Poletimber Well	33.3	67	111-140	N/A	over mature 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>
Balsam Fir		5	Pole/Sapling	6		White Ash	Low	< 5 feet	Sapling
Red Maple		25	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
Black Cherry		3	Log/Pole	11		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen		30	Pole/Log	8		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen		37	Pole/Log	9	67	Ironwood	Low	10 - 20 feet	Sapling
<b>5</b>	4110 - Sugar Maple Association	Sawtimber Well	6.1	90	111-140	N/A	This was set up as a thinning but never harvested Sale # 52-023-14-01, Harvest Moon. Average BA of 130, a high quality hardwood 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 Pine		4	Log	12		Sugar Maple	Low	Variable	Sapling
Hemlock		2	Pole	9		Ironwood	Medium	Variable	Sapling
Sugar Maple		54	Log/Pole	13	90	Balsam Fir	Low	Variable	Sapling
Basswood		40	Log/Pole	12		Leatherwood	Low	5 - 10 feet	Tall Shrub
						Beech	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>6</b>	4112 - Maple, Beech, Cherry Association	Poletimber Medium	23.8	55	1-50	N/A	This stand is a result of a so called Red Pine Clear Cut, but the goal was actually an overstory removal, remove pine to release the understorey of mixed hardwood species. Sale # 52-023-14-01, Harvest Moon (Cut 2019). They also had wanted to buffer the road from the harvest and leave some small diameter red pine.
Canopy Species	% Cover	Size Class	DBH	Age			
Ironwood	1	Sapling	4				
Basswood	1	Pole	6				
Paper Birch	4	Sapling	3				
Quaking Aspen	5	Pole	8				
Sugar Maple	15	Pole	5				
Black Cherry	25	Sapling	1				
Balsam Fir	5	Sapling	1				
American Elm	1	Pole	5				
Red Maple	38	Pole	5	55			
Beech	1	Pole	5				
Beech	4	Sapling	1				
Sub-Canopy Species	Density	Avg. Height	Size				
Leatherwood	Trace	5 - 10 feet	Tall Shrub				
Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub				

Very minimal sugar maple or red maple saplings. Both less than 5% of the canopy. SW portion of this stand has a higher % of sugar maple & aspen, but less black cherry seedlings (replaced by raspberry). The farther away the stand is from the M9 stands, the less sugar maple.

<b>7</b>	429 - Mixed Upland Conifers	Poletimber Well	3.0	62	81-110	N/A	Uncoded retention
Canopy Species	% Cover	Size Class	DBH	Age			
Red Pine	50	Log	14	62			
Balsam Fir	30	Pole/Sapling	7				
Quaking Aspen	20	Pole	7				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Medium	Variable	Sapling				
Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling				
Black Cherry	Low	5 - 10 feet	Sapling				

<b>8</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.4			No	Farmed up until a few years ago when a survey revealed that the state owned this end of the field.
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<b>9</b>	6112 - Lowland Aspen	Sapling Medium	21.0	8	Immature	N/A	Cut in Spring 2014.
Canopy Species	% Cover	Size Class	DBH	Age			
Beech	1	Sapling	1				
Paper Birch	1	Sapling	1				
Tamarack	1	Sapling	1				
Red Maple	26	Sapling	1				
Quaking Aspen	40	Sapling	1	8			
Balsam Fir	5	Sapling	1				
Black Cherry	20	Sapling	1				
Red Pine	1	Sapling	1				
Black Spruce	5	Sapling	1				
Sub-Canopy Species	Density	Avg. Height	Size				
Bracken Fern	Medium	Unspecified	Non-Wood				
Gray Dogwood	Low	5 - 10 feet	Tall Shrub				
Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub				

<b>10</b>	6120 - Lowland Cedar	Poletimber Medium	6.2	120	81-110	N/A	Some mortality on south side. There is a small stream in the west finger.
Canopy Species	% Cover	Size Class	DBH	Age			
White Pine	5	Log	16				
Northern White Cedar	60	Pole/Log/Sap	9	120			
Red Maple	5	Log	14				
Black Ash	30	Sapling/Pole	7				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
11	6130 - Fir, Aspen, Maple	Poletimber Well	48.7	40	51-80	N/A	Species composition and stocking are very variable. 2012 Inventory had an age of 32 from a cutting record. I cannot tell whether or not this was recently cut. I could not verify the age with old timber sale documents. None specifically had a map of this area DT.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		20	Pole/Sapling	7		Balsam Fir		
Balsam Fir		25	Sapling/Pole	4	40	High		
Northern White Cedar		10	Pole	7		Variable		
White Pine		5	Log	16		Sapling		
Red Maple		22	Pole/Sapling	6				
Hemlock		5	Pole	7				
Yellow Birch		3	Pole	6				
Black Spruce		10	Pole	6				
12	6120 - Lowland Cedar	Poletimber Well	79.0	107	171-200	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Balsam Fir		10	Sapling	2				
Northern White Cedar		50	Pole	9	107			
Black Spruce		20	Pole	8				
Tamarack		15	Pole	9				
White Pine		5	Log	16				
13	6230 - Cattail	Nonstocked	9.3		Unspecified	No		
14	4119 - Mixed Northern Hardwoods	Poletimber Medium	19.5	40	1-50	N/A	Harvested in spring of 2019 (52-023-14). Scattered hardwood pockets left, this was previously one stand with stand 56 to the south, this portion was harvested and stand 56 was turned back in.  Old red pine plantation that had an overstory removal.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		5	Pole	5		Beech		
Bigtooth Aspen		8	Pole	6		Medium		
Red Maple		20	Pole	6		Low		
Jack Pine		3	Pole	5		5 - 10 feet		
Beech		17	Pole	6		Sapling		
Yellow Birch		7	Pole	8		5 - 10 feet		
Sugar Maple		36	Pole	6	40	Tall Shrub		
Basswood		1	Pole	6				
Ironwood		3	Pole	5				
15	6124 - Lowland Spruce-Fir	Sapling Poor	67.1	19	Unspecified	N/A		This is an area of dead pole timber, mostly cedar and tamarack, which is regenerating to a mix of lowland conifers. Beaver activity is the presumed cause of mortality.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Black Spruce		30	Sapling	1				
Northern White Cedar		30	Sapling	1	19			
Balsam Fir		30	Sapling	1				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**16** 4130 - Aspen Poletimber Well 15.8 47 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	3	Sapling/Pole	3	
Quaking Aspen	69	Pole	8	47
Balsam Fir	18	Pole/Sapling	6	
Black Cherry	2	Sapling/Pole	3	
Red Maple	7	Pole	7	
American Elm	1	Sapling	3	

**17** 4130 - Aspen Poletimber Well 8.3 46 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log	12		Ironwood	Medium	Variable	Sapling
Red Maple	15	Pole	7					
Paper Birch	15	Pole	7					
Basswood	5	Pole/Log	9					
Quaking Aspen	60	Pole/Log	8	46				

**18** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 30.5 30 1-50 N/A Some blowdown. Wet variable stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Sapling	2		Balsam Fir	Medium	< 5 feet	Sapling
Rock Elm	5	Pole/Sapling	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	15	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole/Sapling	4		Black Ash	Low	5 - 10 feet	Sapling
Quaking Aspen	35	Pole	6	30				
Black Spruce	5	Sapling	4					
Balsam Fir	25	Pole	5					

**19** 6230 - Cattail Nonstocked 43.4 Unspecified No

**20** 4139 - Aspen, Mixed Deciduous Poletimber Well 57.4 37 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	1	Pole	8		Sugar Maple	Medium	Variable	Sapling
Sugar Maple	20	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
Beech	5	Pole	8		White Ash	Low	5 - 10 feet	Sapling
Paper Birch	7	Pole	6		Ironwood	Medium	Variable	Sapling
Quaking Aspen	47	Pole	7	37				
Black Cherry	7	Pole/Sapling	6					
Ironwood	12	Pole	6					
Balsam Fir	1	Pole	6					

Cut in 1985. Some larger and smaller trees than the listed average size. Potentially left hardwood species during last harvest, and only harvested aspen? A drainage flows south on the west side of the snowmobile trail.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 500 - Water Nonstocked 7.3 Unspecified No

22 4130 - Aspen Poletimber Well 54.6 48 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	5		Black Cherry	Low	Variable	Sapling
Red Maple	5	Pole	5		Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	15	Pole	8					
Black Cherry	5	Pole	5					
Sugar Maple	5	Pole/Log	8					
Quaking Aspen	60	Pole/Log	8	48				

23 3105 - Mixed Upland Herbaceous Nonstocked 1.6 No

24 3105 - Mixed Upland Herbaceous Nonstocked 9.7 No

Sub-Canopy Species	Density	Avg. Height	Size
Apple (spp.)	Low	>20 feet	Log
Mixes Sedges/Grasses	High	Unspecified	Non-Wood
Spotted Knapweed	Low	Unspecified	Non-Wood

25 4130 - Aspen Poletimber Well 5.6 35 81-110 N/A Fairly steep south facing slope. nice diversity in this big hardwood block.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	9	Sapling	4		Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	53	Pole/Sapling	6	35				
Sugar Maple	3	Sapling	2					
Red Maple	3	Sapling	1					
Quaking Aspen	25	Pole	6					
Black Cherry	1	Sapling	4					
Ironwood	5	Sapling	1					
Yellow Birch	1	Sapling	4					

26 6120 - Lowland Cedar Poletimber Well 326.7 106 111-140 N/A BAs ranged from 70 to 210 and averaged 140. Standing water in places, multiple streams, beaver activity all making operability pretty questionable. Lots of deer sign and hunting activity even in midwinter.the farther west the thicker the understory

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole	6		Sphagnum Moss	High	Unspecified	Non-Wood
Balsam Fir	10	Pole	7		Mixes Sedges/Grasses	High	Unspecified	Non-Wood
Black Spruce	10	Pole	9		Black Spruce	Low	< 5 feet	Sapling
Northern White Cedar	77	Pole/Log	8	106	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	2	Log	10		Paper Birch	Low	Variable	Sapling
					Black Ash	Medium	Variable	Sapling
					Quaking Aspen	Low	< 5 feet	Sapling
					Balsam Fir	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27** 4110 - Sugar Maple Association Sawtimber Well 96.3 114 111-140 N/A Patchy in some areas, hilly, various drainages throughout. Spring origin? Thinned in 2001.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	1	Log	13		Leatherwood	Low	5 - 10 feet	Tall Shrub
Yellow Birch	5	Pole	9		Beech	Medium	Variable	Sapling
Sugar Maple	47	Log	11	114	Sugar Maple	Low	< 5 feet	Sapling
Beech	2	Log	13		Black Cherry	Low	< 5 feet	Sapling
Basswood	34	Log/Pole	12		Ironwood	High	Variable	Sapling
Bigtooth Aspen	11	Log	12					

**28** 6229 - Mixed lowland shrub Nonstocked 2.7 Unspecified No

**29** 4110 - Sugar Maple Association Sawtimber Well 28.9 90 81-110 N/A MWR stand, cut winter 2017/2018. Single tree selectin and small gaps (.15 acres) placed. Residual BA of 82.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Log/Pole	12	90	Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub
Basswood	35	Log/Pole	11		Beech	High	Variable	Sapling
Beech	15	Log/Pole	13		Elderberry	Medium	5 - 10 feet	Tall Shrub
					Ironwood	Medium	Variable	Sapling

**30** 6123 - Lowland Fir Poletimber Well 6.3 51 51-80 N/A This is quite heavy to fir & wet. A few large legacy pine

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	55	Pole/Sapling	7	51	Balsam Fir	High	Variable	Sapling
Black Cherry	10	Log/Pole	10					
White Pine	5	XLog	28					
Quaking Aspen	5	Pole	8					
Red Maple	25	Pole	6					

**31** 4139 - Aspen, Mixed Deciduous Poletimber Medium 42.8 37 51-80 N/A Cut in 1985. pretty unique/diverse stand. maybe only cut Aspen last harvest?

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	29	Pole	8	37	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Ironwood	20	Sapling/Pole	4		White Ash	Low	< 5 feet	Sapling
Basswood	4	Log	12		Leatherwood	Medium	5 - 10 feet	Tall Shrub
Black Cherry	4	Pole	7		Sugar Maple	Trace	Variable	Sapling
Beech	4	Sapling	3		Witch Hazel	Low	5 - 10 feet	Tall Shrub
American Elm	1	Pole	8					
Sugar Maple	15	Log/Pole	11					
Balsam Fir	7	Pole	7					
Paper Birch	5	Sapling	4					
Quaking Aspen	11	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
32	310 - Herbaceous Openland	Nonstocked	9.5		Immature	No						
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Spotted Knapweed	High	Unspecified	Non-Wood	
								Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub	
								Mixes Sedges/Grasses	High	Unspecified	Non-Wood	
33	629 - Mixed non-forested wetland	Nonstocked	6.3			No	Old beaver flooding that still holds some open water. low spot where streams merge? open water, caused mortality of trees					
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Mixes Sedges/Grasses	High	Unspecified	Non-Wood	
								Black Spruce	Low	Variable	Sapling	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Cattail spp.	Medium	Unspecified	Non-Wood									
34	4134 - Aspen, Spruce/Fir	Poletimber Well	53.0	66	81-110	N/A	Good size aspen.					
								<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>
								American Elm	1	Pole	8	
								Sugar Maple	1	Log	12	
								Black Spruce	5	Pole	6	
								Balsam Fir	26	Pole	6	
								Quaking Aspen	51	Pole	9	66
								White Ash	1	Pole	5	
								Basswood	5	Log	13	
								Red Maple	10	Log	13	
<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>									
Balsam Fir	Medium	Variable	Sapling									
American Elm	Trace	>20 feet	Sapling									
35	42110 - Planted Red Pine	Sawtimber Well	27.1	62	171-200	N/A	Third row thinned in 1996, thinned in 2005. Slightly dense understory.					
								<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>
								American Elm	1	Log	14	
								Red Maple	3	Log	12	
								Red Pine	96	Log/Pole	11	62
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Striped Maple	Low	5 - 10 feet	Sapling	
								Red Maple	Low	< 5 feet	Sapling	
								White Ash	Low	5 - 10 feet	Sapling	
								Black Cherry	Low	Variable	Sapling	
Sugar Maple	Medium	10 - 20 feet	Sapling									
Beech	High	Variable	Sapling									
36	6239 - Mixed Emergent Wetland	Nonstocked	4.1	0		No						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**37**      2114 - Other Cropland      Nonstocked      10.4           Unspecified      No      Used as pastureland until relatively recently. RB This is an trespass from the farmland to the west. barb wired fences extend into stand 40

Sub-Canopy Species	Density	Avg. Height	Size
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Sedges	High	Unspecified	Non-Wood
Ironwood	Low	10 - 20 feet	Sapling
Strawberry	Medium	Unspecified	Non-Wood
Black Cherry	Low	10 - 20 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Scotch Pine	Low	10 - 20 feet	Sapling
Spotted Knapweed	Medium	Unspecified	Non-Wood

**38**      4130 - Aspen      Poletimber Well      15.4      60      81-110      N/A      Protect walnut scattered around semi-open area.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Pole/Log	9	60
Ironwood	5	Sapling	3	
Sugar Maple	5	Sapling	3	
Basswood	5	Sapling	4	
Black Walnut	10	Log/Pole	12	

**39**      4110 - Sugar Maple Association      Sawtimber Well      23.1      96      81-110      N/A      Thinned in 2001.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	57	Log/Pole	11	96	White Ash	Low	5 - 10 feet	Sapling
Basswood	38	Pole/Log	9		Sugar Maple	Trace	< 5 feet	Sapling
Beech	5	Pole	5		Basswood	Low	< 5 feet	Sapling
					Ironwood	High	10 - 20 feet	Sapling
					Mixes Sedges/Grasses	Medium	Unspecified	Non-Wood
					Maple Leaved Viburnum	Low	5 - 10 feet	Tall Shrub
					Black Cherry	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																					
40	4130 - Aspen	Sawtimber Well	28.8	72	111-140	N/A																																																																																						
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42	6139 - Mixed Lowland Forest	Poletimber Well	30.8	40	51-80	N/A	Wet. This stand has some old, scattered logs of spruce and balsam poplar, but most of the merchantable trees are actually immature poles of various species that are regenerating areas of blowdown. Doghair fir exists in places.																																																																																					
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43	4110 - Sugar Maple Association	Sawtimber Well	34.0	96	81-110	N/A	appears eab has killed off all of the ash that was in this stand last YOE (10% of composition) here are some log size trees but a majority are pole sized. similar to stand 39 to the north except less steep and smaller diameter. some orange paint noticed so recently thinned ? variable ba but over 110. Thinned in 2001.																																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 3105 - Mixed Upland Herbaceous Nonstocked 2.0 No

45 6220 - Alder/willow Nonstocked 28.3 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Pole
Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	Low	>20 feet	Pole
Willow spp.	High	Variable	Sapling

46 4139 - Aspen, Mixed Deciduous Poletimber Well 12.4 37 1-50 N/A

This is quite a variable stand. Some pockets average 7 inches by while others are closer to 4. Clear-cut in 1985.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Pole	5	
White Spruce	2	Pole	7	
Sugar Maple	15	Pole	5	
Red Oak	1	Pole	7	
Basswood	5	Pole/Sapling	6	
Bigtooth Aspen	55	Pole	6	37
Balsam Fir	10	Pole/Sapling	5	
Red Maple	5	Pole	8	
White Pine	2	Log	11	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Sugar Maple	Low	< 5 feet	Sapling
White Ash	Low	< 5 feet	Sapling

47 42100 - Planted White Pine Poletimber Well 11.4 24 51-80 N/A

This was a wildlife planting with white pine & other soft mast species. Planted in 1998.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	84	Pole	5	24
Black Cherry	8	Pole	6	
Quaking Aspen	1	Pole	7	
American Elm	1	Log	11	
Black Spruce	1	Log	13	
Red Maple	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Hawthorn (spp.)	Medium	Variable	Tall Shrub
Black Spruce	Trace	10 - 20 feet	Sapling
American Fly Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Low	Variable	Sapling
Balsam Fir	Medium	< 5 feet	Sapling

48 3105 - Mixed Upland Herbaceous Nonstocked 2.6 No

49 3105 - Mixed Upland Herbaceous Nonstocked 10.7 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	>20 feet	Pole
Balsam Fir	Low	>20 feet	Pole
White Pine	Low	5 - 10 feet	Sapling
Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
Black Cherry	Low	Variable	Sapling



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<b>50</b>	6124 - Lowland Spruce-Fir	Poletimber Well	5.8	75	81-110	N/A	Wet. Some open areas with tag alder and other lowland brush. land owner has a private property sign here. appears he's not sure where the property line is																																																																				
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<b>51</b>	4110 - Sugar Maple Association	Sawtimber Well	22.4	101	81-110	N/A	Some areas have very little understory whereas in other areas it is very thick. orange paint found, so recently thinned? Some very cool legacy white pine.																																																																				
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<b>52</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	28.7	87	51-80	N/A	Stand treated as part of MWR project in winter of '17 & '18. Supposed residual BA of 37.  Stand seemed closer to 60 BA in winter of '22.																																																																				
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<b>53</b>	4110 - Sugar Maple Association	Sawtimber Well	164.0	87	81-110	N/A	Thinned in 2010. Beech is just starting BBD. Ash was previously 10% of canopy, but appears all of it had died out.																																																																				
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**54** 4119 - Mixed Northern Hardwoods Sawtimber Well 104.2 88 111-140 N/A BA's 120, 120, 140 & 120. Avg. BA 125 Sq. Ft. per Acre

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	8	Log/Pole	13		Beech	Low	Variable	Sapling
Black Cherry	5	Log	12		White Ash	Medium	Variable	Sapling
Red Maple	12	Log/Pole	11		Basswood	Low	5 - 10 feet	Sapling
Sugar Maple	40	Log/Pole	11	88	Yellow Birch	Trace	10 - 20 feet	Sapling
Basswood	32	Log/Pole	11	88	Sugar Maple	Low	Variable	Sapling
Yellow Birch	3	Log	12		Ironwood	High	Variable	Sapling

**55** 42110 - Planted Red Pine Sawtimber Well 5.7 90 141-170 N/A This was previously one stand with the stand to the east, was prescribed to be harvested at the same time but this portion was turned in and not completed.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	15	90	Sugar Maple	Medium	Variable	Sapling
					Beech	Medium	Variable	Sapling
					Ironwood	Low	10 - 20 feet	Sapling

**56** 4311 - Pine, Aspen Mix Poletimber Well 14.7 85 141-170 N/A This was previously one stand with stand 14 to the north, stand 14 was harvested while this portion was turned back in. Understory all heavily browsed. East of road a little different. Some pine exceed 25"

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	23	Pole/Log	9		Sugar Maple	Medium	>20 feet	Sapling
Balsam Fir	6	Pole/Log	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	44	Log/XLog	16	85	Yellow Birch	Low	10 - 20 feet	Sapling
Jack Pine	5	Pole	9		Ironwood	Low	10 - 20 feet	Sapling
Beech	5	Sapling/Pole	4					
Sugar Maple	12	Pole	5					
Paper Birch	5	Pole	7					

**57** 4130 - Aspen Sawtimber Well 73.9 68 81-110 N/A Average BA is 98. Seems small for its age on this ground; high water table? Scattered patches of fir and hardwood. - 2014 YOE

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	68	Log	11	68	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
Balsam Fir	14	Pole	5		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
American Elm	1	Pole	5		Black Cherry	Medium	< 5 feet	Sapling
Ironwood	2	Pole	6		Sugar Maple	High	>20 feet	Sapling
Red Maple	5	Log	13		Japanese Barberry	Low	5 - 10 feet	Tall Shrub
Sugar Maple	5	Log	12					
Black Cherry	5	Pole	9					

**58** 629 - Mixed non-forested wetland Nonstocked 7.5 Immature No many snags, these trees died due to flooding

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium	Unspecified	Non-Wood
Black Spruce	Low	>20 feet	Pole
Quaking Aspen	Low	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
<b>59</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	4.5	66	51-80	N/A	This is an interesting stand. Sawlog size cherry & maple with smaller aspen. Reminds me of an old agriculture stand.																																																											
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<b>60</b>	6124 - Lowland Spruce-Fir	Poletimber Well	41.3	58	81-110	N/A	This area is quite wet compared to the adjacent stands. A much higher balsam fir component. Multiple streams or drainages. One can easily find 3 streams in the east arm. It appears water flows from the east to west into stand 33.																																																											
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<b>61</b>	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	8.0	55	1-50	N/A	This stand is a result of a so called Red Pine Clear Cut, but the goal was actually an overstory removal, remove pine to release the understory of mixed hardwood species. Sale # 52-023-14-01, Harvest Moon. Only a portion of this sale was completed. The red pine stand directly to the west was supposed to also be harvested, but did not end up getting cut. See older imagery.  This stand is closer to a northern hardwood type than the stand with identical treatment history directly to the SE.  MiFI does not let you have saplings & poles in the overstory. Not ideal for this situation. It should be 29% RM pole & 7 % RM saplings then 21% SM pole & 4% SM saplings																																																											
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<b>62</b>	4110 - Sugar Maple Association	Sawtimber Well	57.4	87	81-110	N/A	BA's ranged from 70 to 130. Of 18 swings, only 3 exceeded 110. Average is 94. Entire stand has been cut (TSI) in the last 10 or 20 years. It is transitioning into logl. Emerald ash borer is present. Portion of stand NW of stand 35 thinned in 2010. Stand SW of stands 35 & 31 thinned in 1985. Odd shaped piece by golf course thinned in 2008 (thinning & patch cuts). Portion NE of stand 31 thinned in 2001																																																											
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Yellow Birch	16	Log	15																																																															
Paper Birch	4	Pole	6																																																															
Quaking Aspen	7	Pole	8																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																															
Beech	Medium	Variable	Sapling																																																															
Ironwood	Medium	Variable	Sapling																																																															
White Ash	Medium	5 - 10 feet	Sapling																																																															
<b>65</b>	4110 - Sugar Maple Association	Sawtimber Well	100.7	90	81-110	N/A	4 Plots, 90, 120, 90 & 100 Average of 100 Sq. Ft. / Ac.																																																											
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<b>67</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	145.5	92	111-140	N/A	4 BA swings, 130, 140, 110, 120 Avg. 125 Sq. Ft. / Ac.																																																											
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<b>69</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	167.4	89	81-110	N/A	7 plots, 70, 120, 110, 110, 120, 110, 110. Average of 107 Sq. Ft. / Ac.																																																											
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