



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72026

Entry Year 2022

Acreage: 2,307

County Oscoda

Management Area: Avery Hills

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**Revision Date:** 2020-04-03

**Stand Examiner:** Kevin Ehlert

**Legal Description:**

Oscoda County - Elmer Township, T28N R02E Sections 1, 2, and 12.  
West Clinton Township, T28N R03E Sections 6 and 7.

**Identified Planning Goals:**

To maintain forest health, productivity, sustainability, and diversity throughout the compartment while providing for multiple use within the area.

**Soil and topography:**

Topography has rolling hills to very steep terrain. Soils consist of various sand associations in the upland areas.

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

An isolated 40 acre parcel breaks up an otherwise contiguous state ownership. Large private parcels make up the western boundary. State ownership continues north, south, and east. There is still active gas exploration throughout the area. The northwest portion of this compartment is found within the Hunt Creek Research Area boundaries.

**Unique Natural Features:**

"Bushman Swamp" is known to contain species of orchid such as *Amerochis rotundifolia* and *Cypripedium arietinum*. The southern portions of this compartment have been impacted by a large wind event in 1999.

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

Portions of this compartment contain the "Hill Settlement" area.

**Special Management Designations or Considerations:**

The Hunt Creek Research Area is a designated Special Conservation Area (SCA). See the "Dedicated & Proposed Special Conservation Area Map" for location within the compartment.

**Watershed and Fisheries Considerations:**

Hunt creek and several small ponds are found throughout.

**Wildlife Habitat Considerations:**

Make attempts to expand aspen component where possible during harvest operations. This compartment contains a diverse array of mast producing shrubs found throughout the understory. Enhance the swamp conifer edges with dead and down specifications during timber operations. Three maintained wildlife openings are found in this compartment.

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

No known potential exists for commercial metallic mineral production in this part of the state. The closest active sand/gravel pit is three miles northwest of the compartment. Sand & gravel potential within the compartment appears to be good. The compartment has been developed for Antrim Shale gas production, and there is limited potential for any additional Antrim wells in the compartment. There is no known hydrocarbon potential from other formations beneath the compartment. All State-owned mineral rights in the compartment are currently leased and held by production. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights. Most of the private mineral rights in the compartment have already been developed.

**Vehicle Access:**

The compartment can be accessed using county roads. Oil and gas right-of-ways provide multiple access opportunities for wheeled vehicles and foot traffic.

**Survey Needs:**

No survey needed.

**Recreational Facilities and Opportunities:**

Hunt Creek ORV-Cycle trail occurs within as a stand alone trail with limited segments on Forest Roads. This and continuous state land provides dispersed hunting, and camping opportunities.

**Fire Protection:**

Terrain will limit many water units during suppression activities. This compartment contains very little "high hazard" fuel types.

**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:

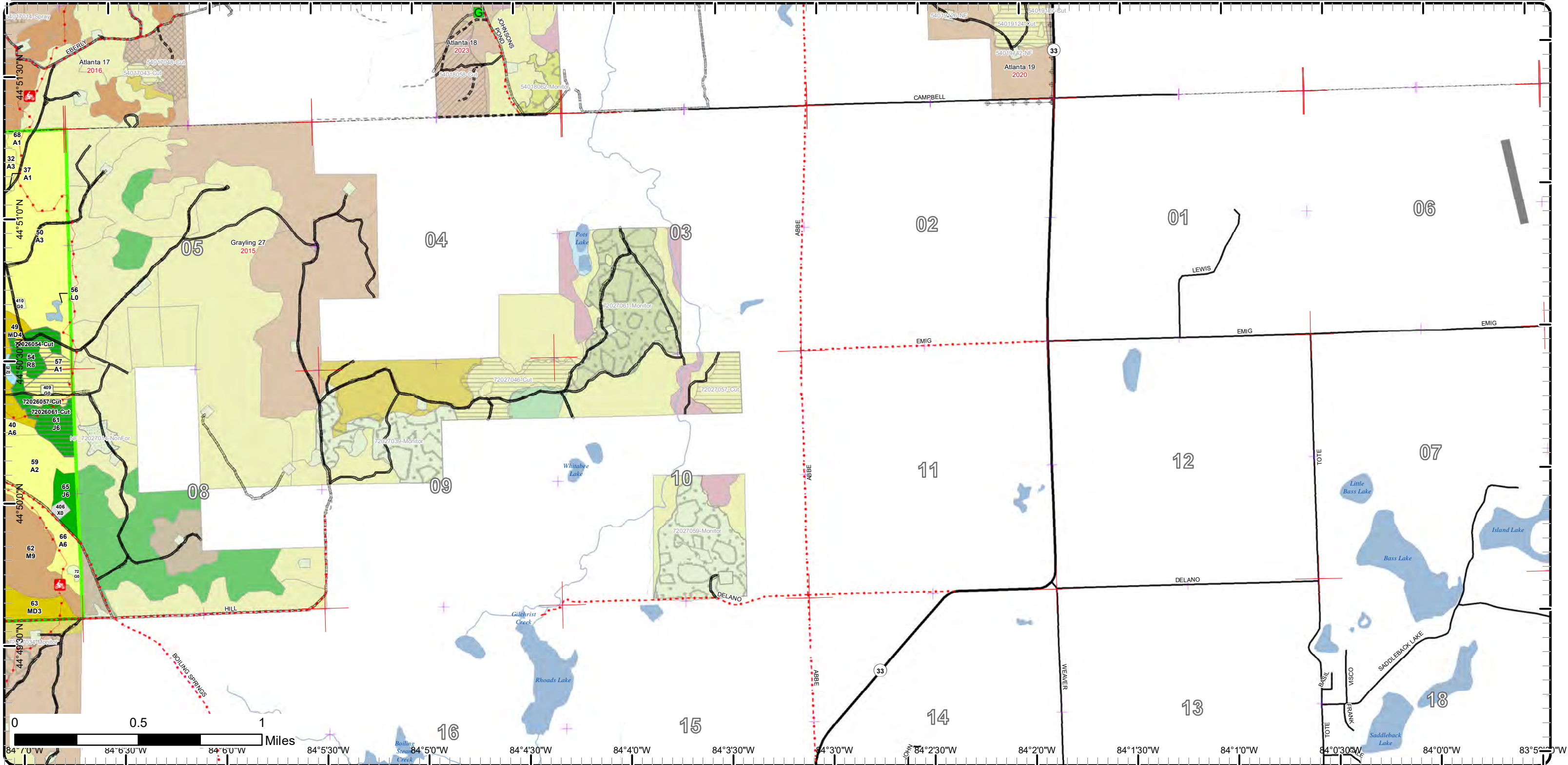
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 26  
 T28N, R02E, Sec. 01-02, 12  
 T28N, R03E, Sec. 06-07  
 County: Oscoda  
 Unit: Grayling  
 Mgmt Area: Avery Hills  
 YOE: 2022  
 Acres: 2,308 GIS Calculated  
 Examiner: Kevin Ehler  
 Map Revised: 8/24/2020  
 Map Phase: Pre-Review

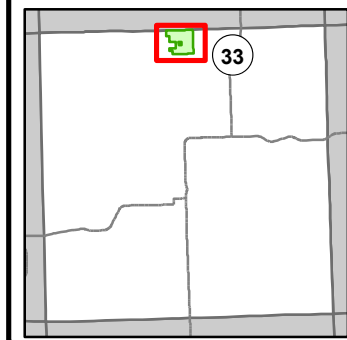


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline

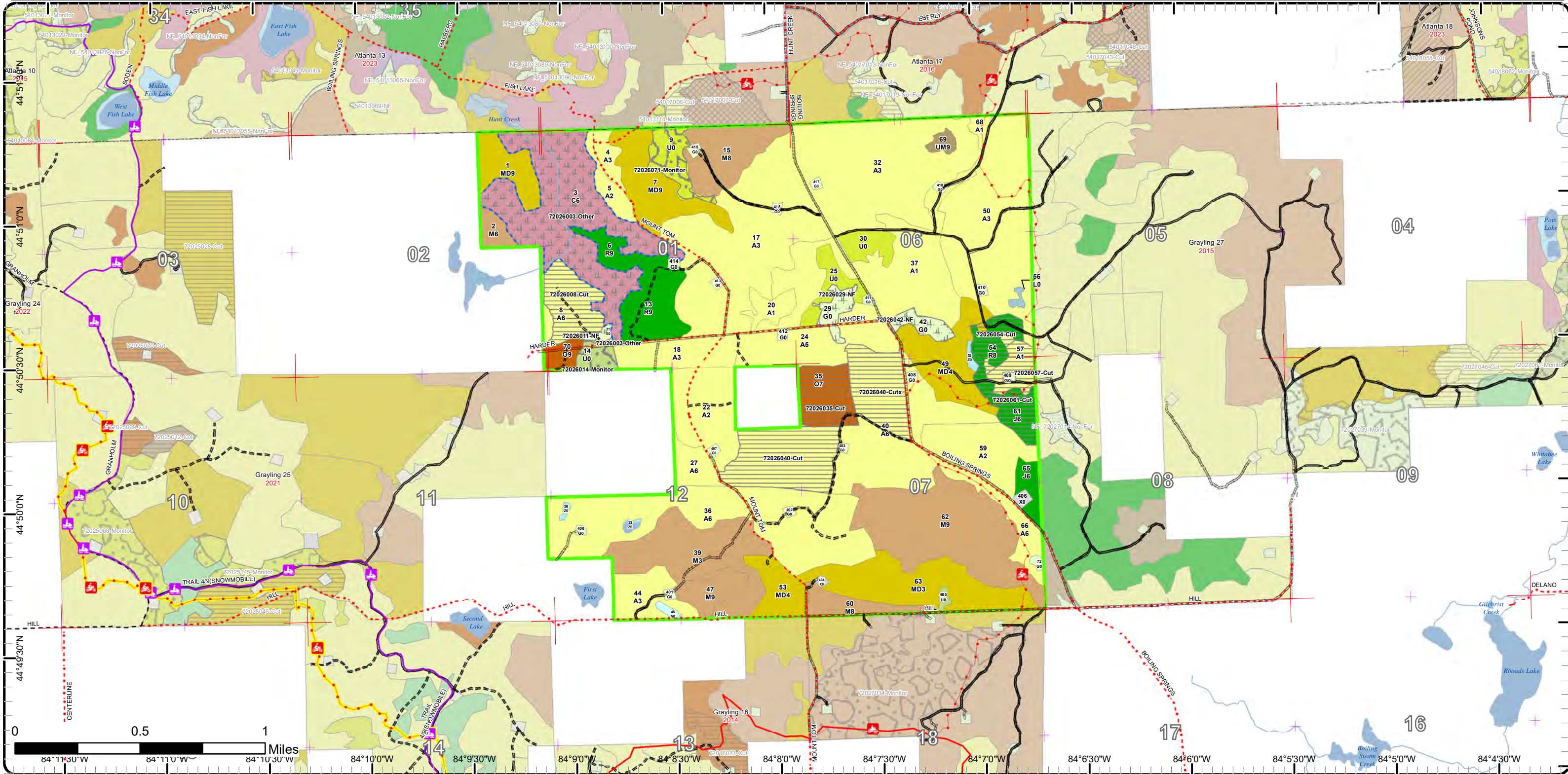


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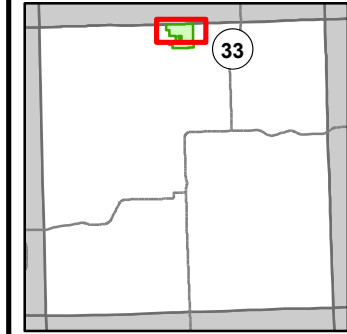


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- Designated ATV Trails
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- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

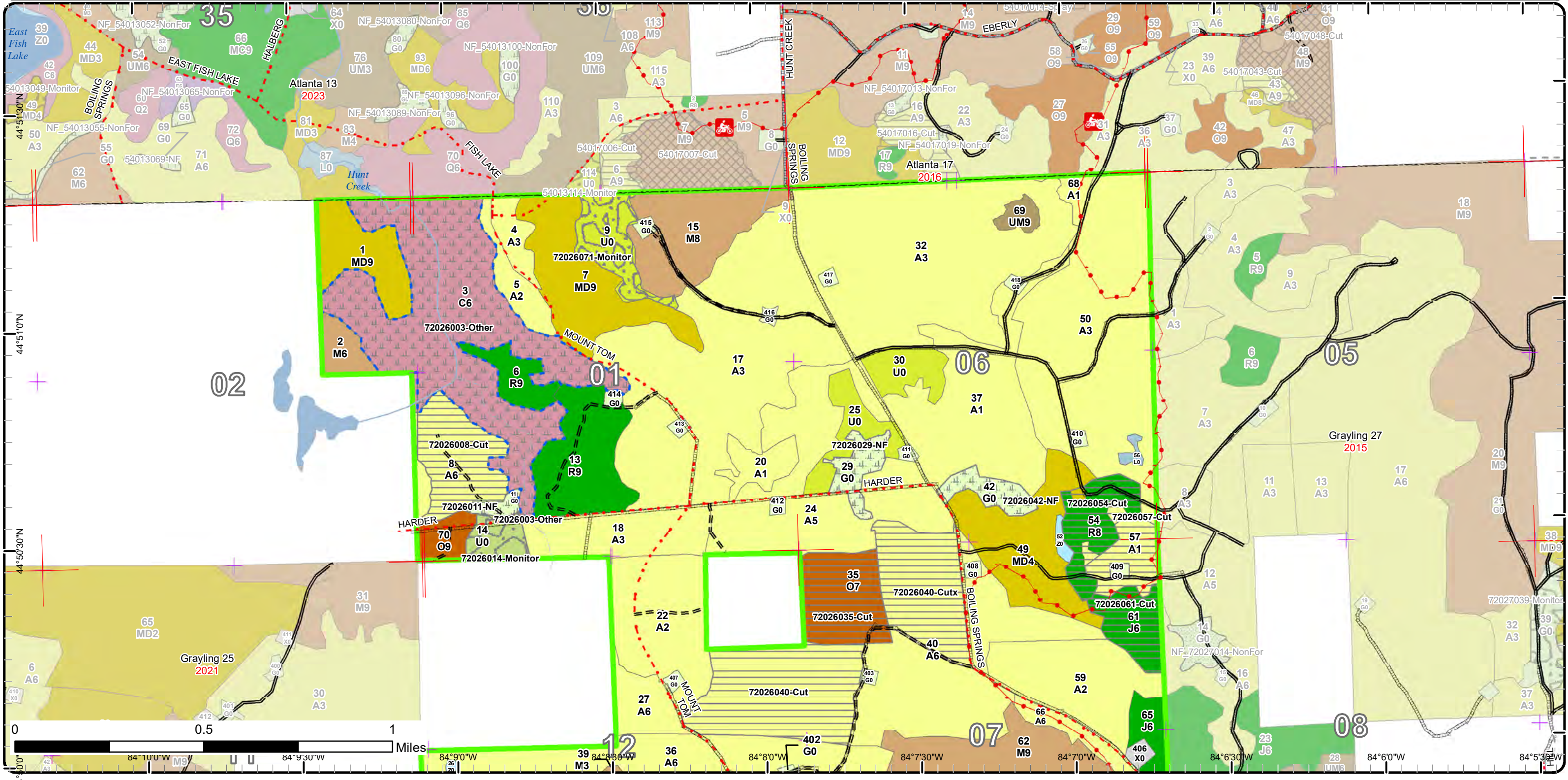


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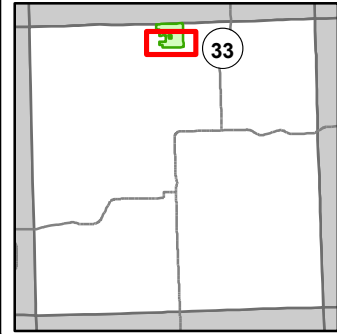


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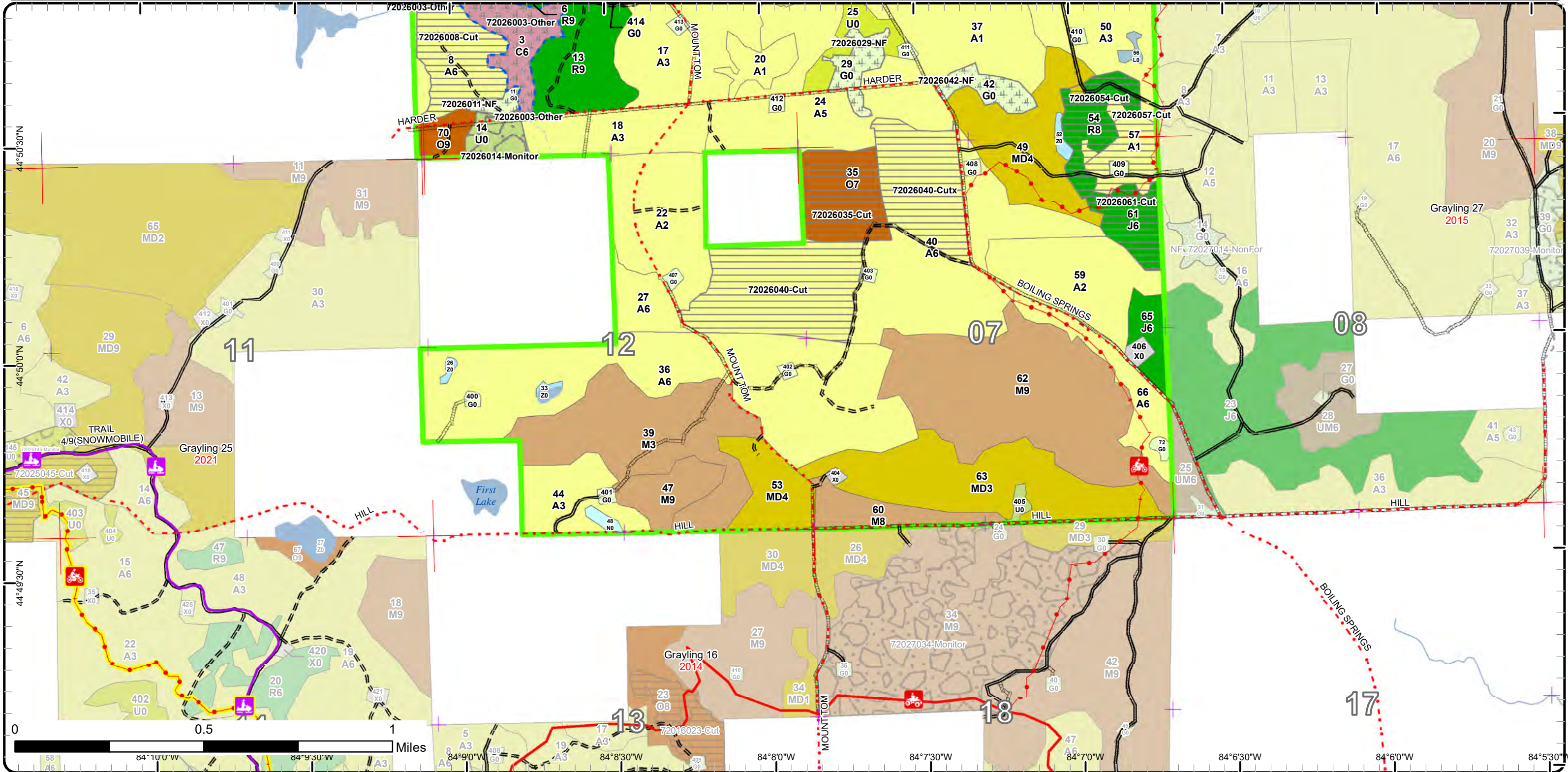


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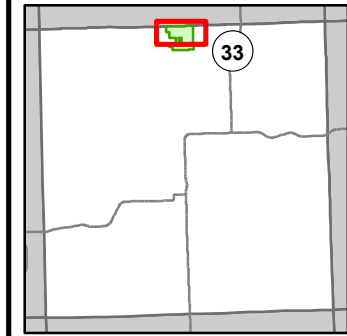


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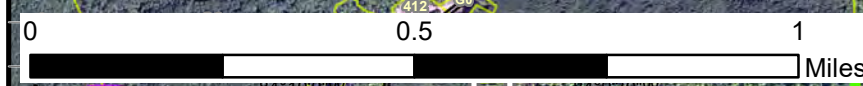
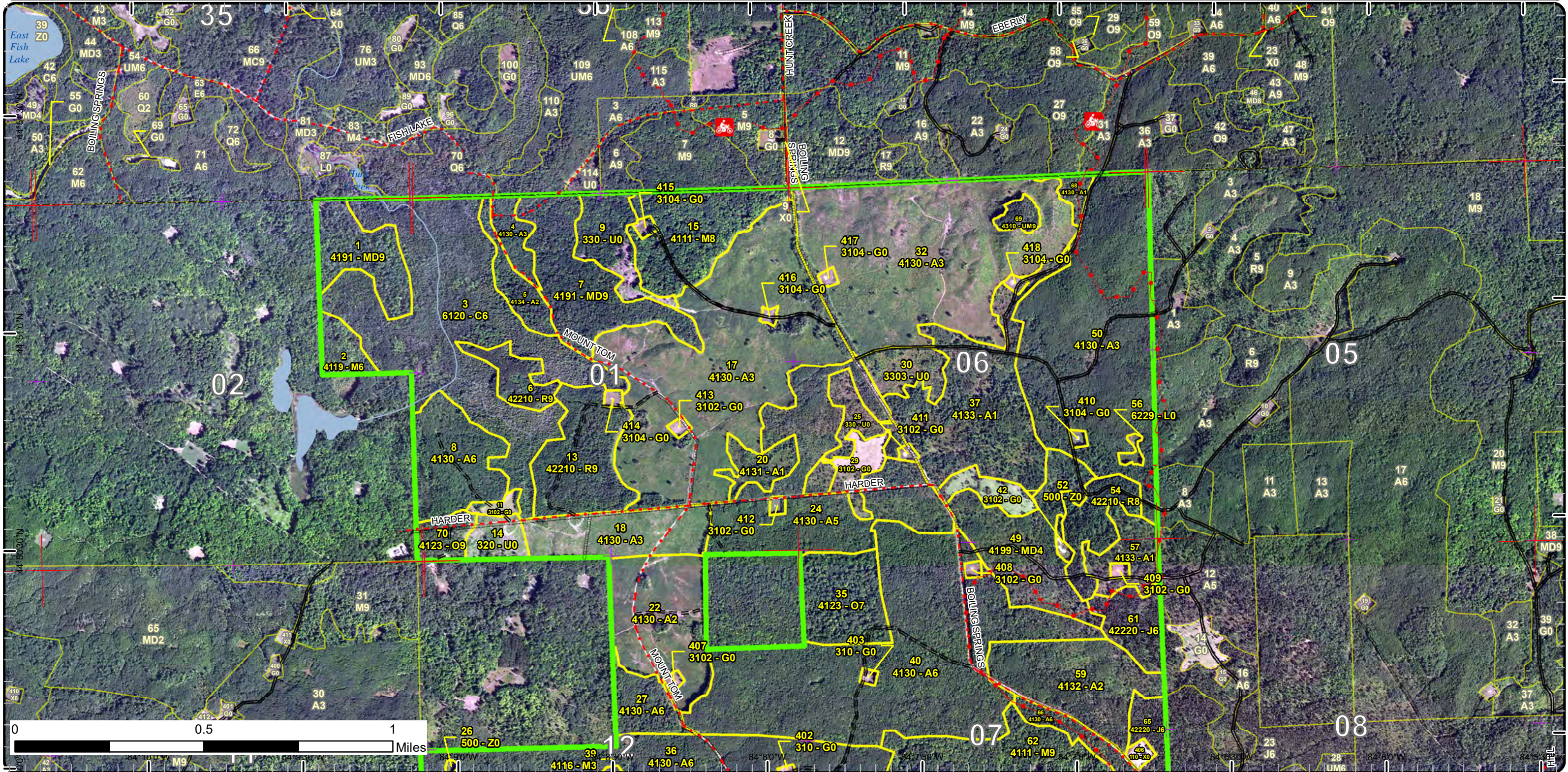
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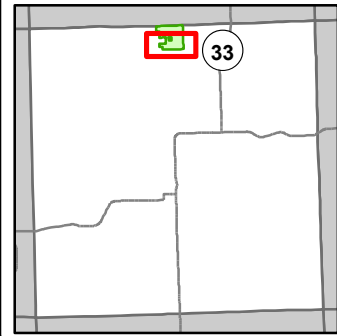
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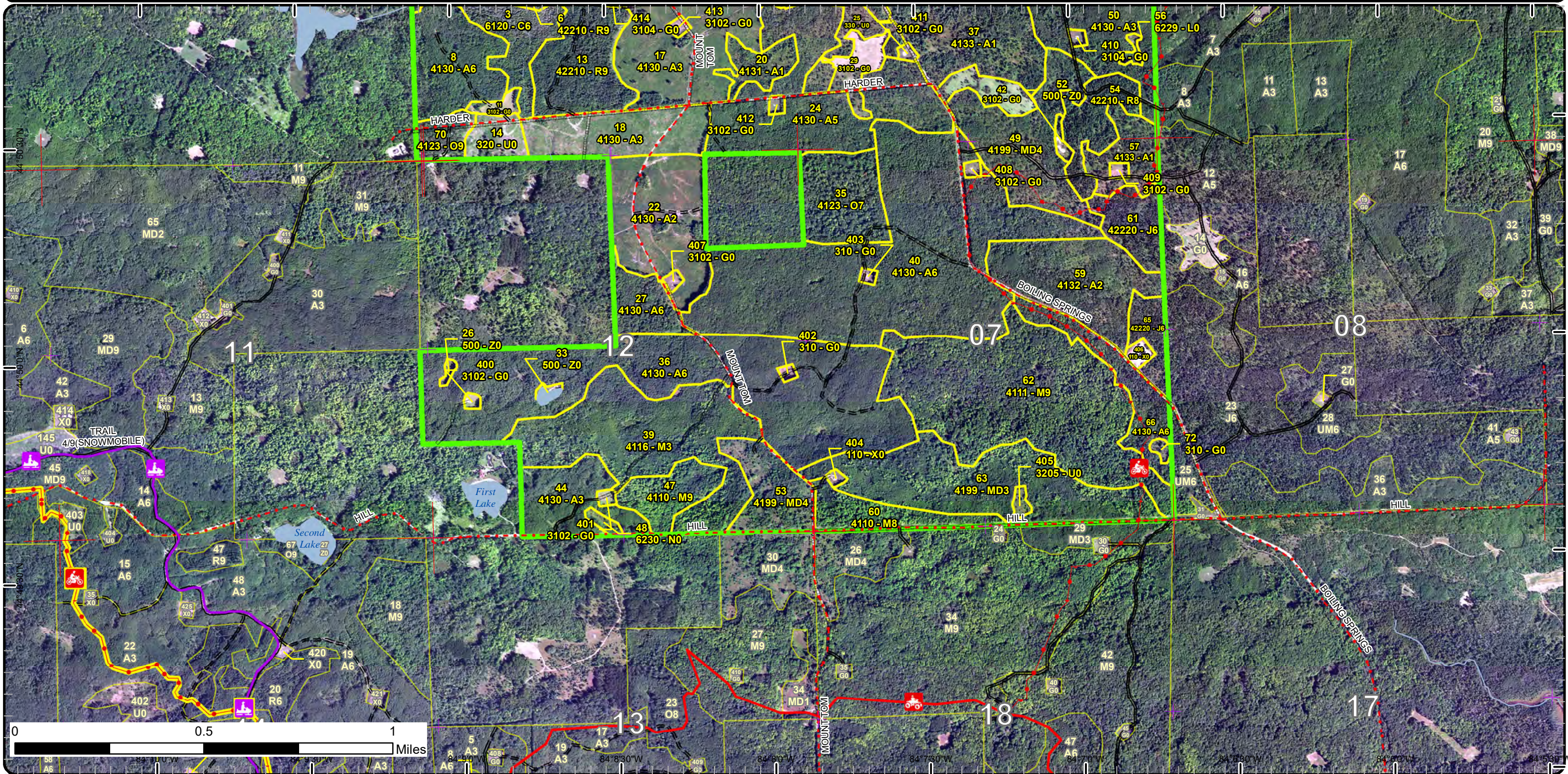


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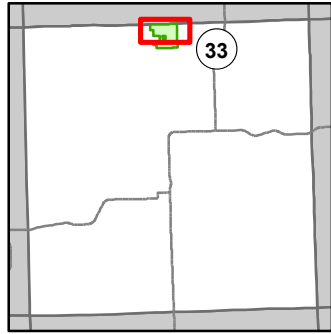
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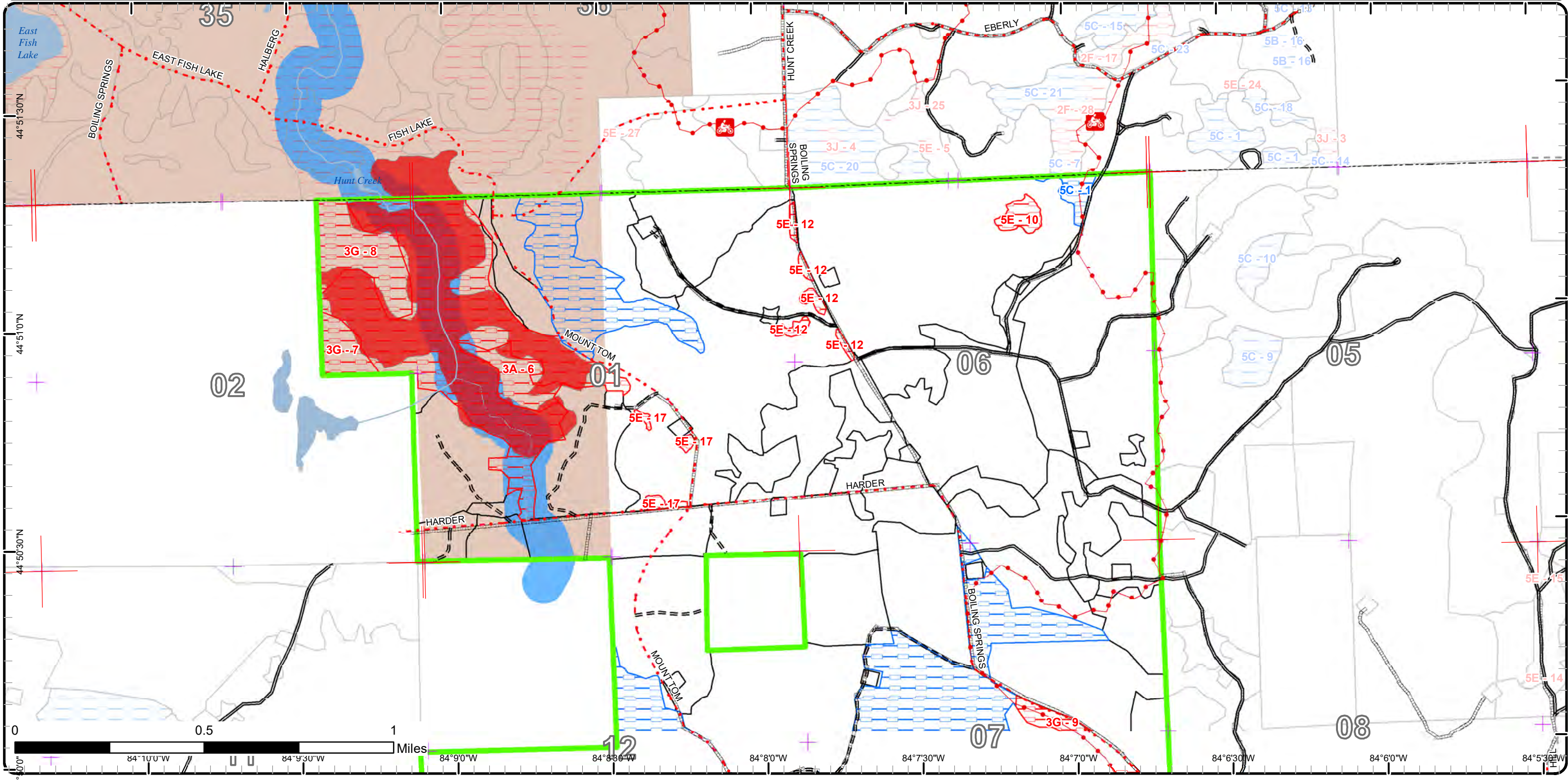


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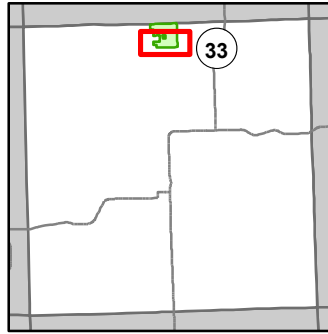


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands

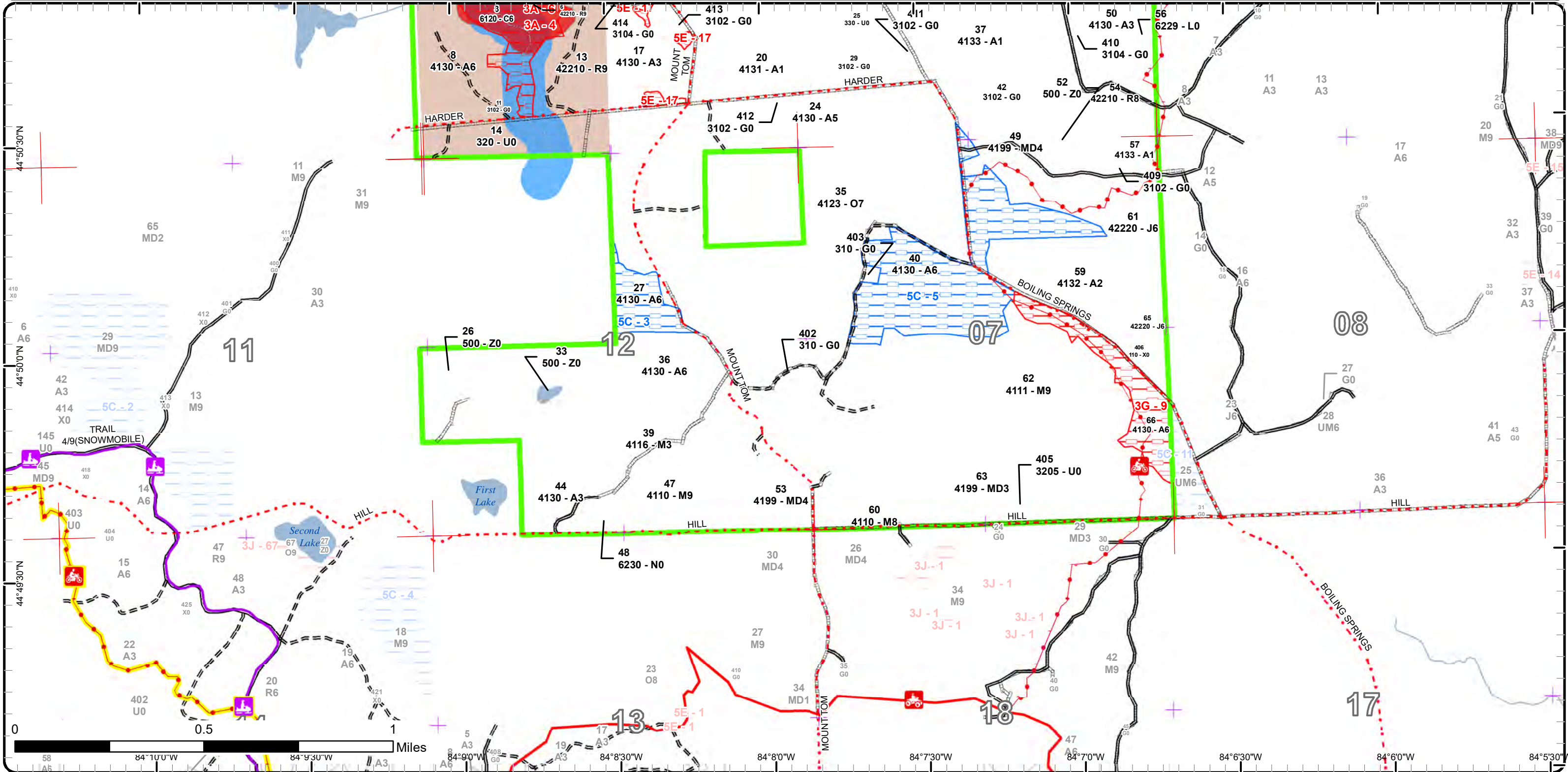


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Report 1 – Total Acres by Cover Type and Age Class



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	452	12	0	584	0	248	26	0	0	0	0	0	0	0	0	0	0	1322
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	149	0	0	0	0	0	149
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Jack Pine	0	0	0	0	0	0	12	19	0	0	0	0	0	0	0	0	0	0	31
Low-Density Trees	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	105	52	0	0	0	0	0	0	0	51	0	0	0	0	29	237
Northern Hardwood	0	0	0	88	0	0	0	0	31	0	20	0	178	0	0	0	0	0	316
Oak	0	0	0	0	0	0	0	0	0	0	10	0	0	33	0	0	0	0	43
Red Pine	0	0	0	0	0	0	0	0	43	22	0	0	14	0	0	0	0	0	79
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>125</b>	<b>452</b>	<b>12</b>	<b>193</b>	<b>636</b>	<b>0</b>	<b>260</b>	<b>45</b>	<b>74</b>	<b>27</b>	<b>30</b>	<b>0</b>	<b>392</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>2306</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 26

Total Compartment Acres: 2,307

Commercial Harvest - 238  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	160	0	0	0	0	0	0	0	0	160
Jack Pine	19	0	0	0	0	0	0	0	0	19
Oak	34	0	0	0	0	0	0	0	0	34
Red Pine	25	0	0	0	0	0	0	0	0	25
<b>Total</b>	<b>238</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>238</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	238	0	0	0	0	0	32	148	25	443
Next Step	0	121	60	0	0	121	319	0	0	621
<b>Total</b>	<b>238</b>	<b>121</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>121</b>	<b>351</b>	<b>148</b>	<b>25</b>	<b>1064</b>



Stand	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>3</b>	<b>72026003-Other</b>	148.3	6120 - Lowland Cedar	Poletimber Well	111	81-110	Other	Other	6120 - Lowland Cedar	Even-Aged	No
<p><u>Prescription Specs:</u> Hinge cut 20+ foot high full trees, 3-4' off ground. Leave portion of cambium layer attached so tree will remain propped on the stump after dropped. Mostly pole-sized trees will be cut but some saw-sized trees will be cut too. Trees will be cut every few years during the winter months so cover is always available for hares .</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> WLD will create horizontal cover for snowshoe hares within this stands by hinge cutting and dropping fir and spruce trees. WLD will focus primarily along the edges of stands 5 and 8 and around canopy gaps within the stand.</p> <p><u>Site Condition</u> Conservation Values</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>8</b>	<b>72026008-Cut</b>	34.8	4130 - Aspen	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all species 2"+. Follow Standard retention guidelines. Include drumming log spec. Lowland Cedar inclusion in SW corner to be excluded from treatment.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A fully stocked stand of aspen, mixed deciduous with some conifer</p> <p><u>Other Comment:</u> Access route goes through maintained wildlife opening. Opening is not to be used for any harvest activities other than hauling.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>11</b>	<b>72026011-NF</b>	3.6	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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>14 72026014-Monitor</b>	10.9	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Check for acceptable regeneration above browse line</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mangement objective is oak/aspen with minor components off mixed pine and hdwds. A moderately stocked stand primarily consisting of oak and aspen will be considered a success. If regeneration is not adequate plant the open areas to red pine.</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 /2021</p>										
<b>29 72026029-NF</b>	11.2	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</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 /2021</p>										
<b>35 72026035-Cut</b>	33.7	4123 - Red Oak	Sawtimber Poor	120	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, all species 2" and up. Follow standard retention guidelines, using island retention. Also retain the few XLog conifers.</p> <p><u>Specs:</u> Apply drumming log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of oak, aspen, and other associated hardwood species. Prefer 25%+ of oak canopy cover, but will accept any mixed upland deciduous.</p> <p><u>Regen:</u></p> <p><u>Other</u> PVT line on W side of stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>40 72026040-Cut</b>	64.9	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up except do not cut hemlock. Follow standard retention guidelines using area based retention in islands.</p> <p><u>Specs:</u> Use retention to buffer the small wet areas. Apply drumming log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A fully stocked stand of aspen and mixed hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u> PVT line needed on N end.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
40	72026040-Cutx	43.7	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up except do not cut hemlock. Follow standard retention guidelines using area based retention in islands.</p> <p><u>Specs:</u> Apply drumming log spec. Apply rec trail spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A fully stocked stand of aspen and mixed hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u> PVT line needed on N end.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
42	72026042-NF	10.6	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub</p> <p><u>Specs:</u> planting, herbicide application, and removal of invasive species.</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 /2021</p>											
54	72026054-Cut	24.9	42210 - Natural Red Pine	Sawtimber Medium	86	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest, cut all species 2" and up. Use area based retention, preferably through boundary exclusion to facilitate site prep and planting.</p> <p><u>Specs:</u> Plant around areas of heavy aspen regeneration where feasible. Expand boundary into adjacent stands to square up the treatment shape. Use rec trail spec as necessary to protect nearby cycle trail.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release</p> <p><u>Acceptable</u> A fully stocked red pine plantation with minimum 80% Free to grow and minimum 600 stems per acre.</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 /2021</p>											
57	72026057-Cut	16.7	4133 - Aspen, Mixed Pine	Sapling Poor	36	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2"+. Use area based retention along boundary to facilitate planting operations. Plant around areas of heavy aspen</p> <p><u>Specs:</u> regeneration where feasible. Include Rec Trail spec.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release</p> <p><u>Acceptable</u> A fully stocked stand of planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Possible re-route of cycle trail out of stand 57</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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>61 72026061-Cut</b>	18.8	42220 - Natural Jack Pine	Poletimber Well	61	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest, cut all species 2" and up. Use area based retention, preferably through boundary exclusion to facilitate site prep and planting.</p> <p><u>Specs:</u> Plant around areas of heavy aspen regeneration where feasible. Use rec trail spec as necessary to protect nearby cycle trail.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release</p> <p><u>Acceptable Regen:</u> A fully stocked red pine plantation with minimum 80% Free to grow and minimum 600 stems per acre.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>9 72026071-Monitor</b>	21.2	330 - Low-Density Trees	Nonstocked	0	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u> Check Regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Management objective for this stand is a natural regeneration of dry mesic forest types with an oak component. If moderate stocking is not met the stand could be planted with red pine.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 2 /14/2019</p>										

**Total Treatment Acreage Proposed: 443.3**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 26  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	3A	3G	5E
1322	1183	<b>104</b>	35	Aspen	<b>104</b>	0	26	9
149	5	<b>0</b>	145	Cedar		145		
46	45	<b>0</b>	1	Herbaceous Openland			1	0
31	31	<b>0</b>	0	Jack Pine			0	
54	54	<b>0</b>	0	Low-Density Trees				
2	2	<b>0</b>	0	Lowland Shrub				
2	2	<b>0</b>	0	Marsh				
237	157	<b>51</b>	29	Mixed Upland Deciduous	<b>51</b>		29	
316	306	<b>0</b>	11	Northern Hardwood	<b>0</b>		11	
44	44	<b>0</b>	0	Oak				
78	65	<b>0</b>	14	Red Pine		14		
5	0	<b>0</b>	5	Upland Mixed Forest				5
13	13	<b>0</b>	0	Upland Shrub				
3	3	<b>0</b>	0	Urban				
4	4	<b>0</b>	0	Water				
2,307	1,914	<b>154</b>	239	Total Forested Acres	<b>154</b>	158	67	14
	83%	<b>7%</b>	10%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave stand for now until adjacent immature aspen stands grow up more.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 26  
Year of Entry: 2022

3	<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 until next YOE in order to break up age class distribution of aspen within compartment.							
4	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	145	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Most of stand 3 is classified as part of the Bushman Swamp, which is an ERA for Rich Conifer Swamp. Hunt Creek is classified as a high priority trout stream requiring a 100' Buffer.							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	83	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold until next YOE in order to break up age class distribution of aspen within area.							
6	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	14	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unique stand of natural red pine surrounded by the Bushman Swamp, a Rich Conifer Swamp community. Difficult to access due to natural barrier and steep slopes.							
7	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Grayling Mgt. Unit**  
**Kevin Ehlert : Examiner**

**Compartment: 26**  
**Year of Entry: 2022**

9	Unavailable	3G: Other Influence zones - See comments	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	5	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention pocket which was expanded due to producer being unable to cut steep slope.							
12	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<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
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	28.8	48	51-80	N/A	Aspen, mixed hardwood and mixed conifer. Portions of stand are very close to Hunt Creek. South and East boundaries grade downward toward Stand 3. East end has pockets of natural mixed pine, containing super canopy large red and white pine with pole size regen below. Large charred stumps from past fire present throughout the stand. A unique area on the edge of the Bushman Swamp ERA. Difficult access due to adjacent lowlands and private property.																																																													
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2	4119 - Mixed Northern Hardwoods	Poletimber Well	10.5	77	81-110	N/A	Mixed hardwood stand. Located on slope down to adjacent Bushman Swamp. Difficult to access due to adjacent swamp and private property. Small marsh carries over from PVT property on S boundary which feeds a stream with steep banks isolating the SE corner of the stand. Areas of the slope have water seeping out, some of which making small riparian areas with cedar. Ash was previously a part of the canopy, but has since been removed by EAB mortality.																																																													
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3	6120 - Lowland Cedar	Poletimber Well	149.4	111	81-110	N/A	Lowland Conifer stand. Hunt Creek runs through the stand. Dense sub canopy of balsam fir, cedar, and spruce. Steep slopes in transition areas to adjacent upland stands. Many seeps/springs feeding into Hunt Creek. Much of the stand has stand or flowing surface water at various times of year.																																																													
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Conifers	Medium	Variable	Sapling																																																																	
4	4130 - Aspen	Sapling Well	10.3	5	Immature	N/A	Cut in early 2015, Bear Track Harvest. Regenerating to aspen. Small amount of residual conifer left during harvest. Density of regen varies, but appears to be filling in well. The majority of this stand is on a hill with a western aspect.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>5</b>	4134 - Aspen, Spruce/Fir	Sapling Medium	13.3	5	Immature	N/A	Harvested under Bear Track Harvest, cut all species 2"+ except red and white pine and cedar. Residual red and white pine logs left. Regen is mostly aspen, balsam fir, and red maple, with trace amounts of birch.	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		60	Sapling	1	5			
Balsam Fir		20	Sapling	1				
Red Pine		8	Log	13				
Red Maple		10	Sapling	1				
White Pine		2	Log	13				

<b>6</b>	42210 - Natural Red Pine	Sawtimber Well	13.5	119	201+	N/A	Dense red pine stand on a ridge surrounded by lowland cedar. There is hardly a single flat spot in the stand, most of it very steep down to the adjacent lowland. Two main age classes for red pine; 65-70 yrs and 110-120 yrs. Active hawk nest. Beautiful red pine, 9-10 sticks in spots. Areas of heavy fir understory. Cedar and red maple can be found too. Hold long term for diversity. "Legacy stand" Selection cut in 1984 through sale # 72-038-83-01. 323 red pine trees were harvested. Cored 109yrs.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		3	Log/Pole	11				
Red Pine		97	Log/Pole	10	119			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	Variable	Sapling				
Balsam Fir		High	Variable	Sapling				
Northern White Cedar		Low	Variable	Sapling				
White Pine		Low	Variable	Sapling				
Deciduous Shrubs		Low	Variable	Tall Shrub				

<b>7</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	50.9	117	51-80	N/A	A pine, oak, mixed hdwds stand. Very hilly. White pine and fir make up majority of understory. Mixed hdwds are present as well. Portions of stand removed in the 60's. These pockets are dense w/ fir, aspen, and pine. Pine concentration heaviest at the North end.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		2	Pole/Log/Sap	6				
Red Maple		15	Pole/Sapling	6				
Black/Red (Hybrid) Oak		35	Log/Pole	11				
Bigtooth Aspen		10	Pole/Log/Sap	7				
Red Pine		38	Log	14	117			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Medium	Variable	Sapling				
Balsam Fir		High	Variable	Sapling				
Deciduous Saplings		Low	Variable	Sapling				
Deciduous Shrubs		Low	Variable	Tall Shrub				
Pines (spp.)		High	Variable	Sapling				
Witch Hazel		Low	5 - 10 feet	Tall Shrub				
Maple Leaved Viburnum		Low	< 5 feet	Tall Shrub				
Serviceberry (Juneberry)		Medium	Variable	Tall Shrub				
Ash (spp.)		Low	Variable	Sapling				

<b>8</b>	4130 - Aspen	Poletimber Well	39.1	54	81-110	N/A	Aspen stand with a fir understory. Old landing and road system still present. Many pockets of fir are competing w/ the aspen for canopy space. Some miscellaneous pine can also be found. The fir density increases along the edges in the transition into the adjacent lowland conifer stand. Inclusion of lowland cedar in stands SW corner.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Pole/Sapling	6				
Red Oak		3	Log/Pole	11				
Paper Birch		2	Pole	5				
Bigtooth Aspen		70	Pole	7	54			
Balsam Fir		15	Sapling/Pole	4				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	Variable	Sapling				
Balsam Fir		High	Variable	Sapling				
Deciduous Shrubs		Low	Variable	Tall Shrub				
Serviceberry (Juneberry)		Medium	Variable	Tall Shrub				
Ash (spp.)		Low	Variable	Sapling				
Cherry (spp.)		Medium	Variable	Tall Shrub				
Oak (spp.)		Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
9	330 - Low-Density Trees	Nonstocked	22.5	0	Immature	No	Regen struggling to get past deer browse other than dine Aspen pockets. Continue to monitor. Seed trees are mostly over mature with scattered red pine. Stand cut through sale Bear Track Harvest. Leave 10 - 20 BA of mixed pine, oak, and mixed hdwd. Final harvest all other species 2" and up. Try to expand the aspen clones by not leaving residual immediately adjacent to pockets of mostly aspen. Stand runs on a ridge. Large diameter oak and red pine w/ misc hdwds and conifer underneath.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Oak	Low	>20 feet	Log					
								Red Pine	Trace	>20 feet	Log					
								Bigtooth Aspen	Low	5 - 10 feet	Sapling					
								Red Oak	Trace	< 5 feet	Sapling					
Red Maple	Low	< 5 feet	Sapling													
11	3102 - Grass	Nonstocked	3.6		Unspecified	Managed Opening	A maintained grassy opening. Cherry saps and one large open grown oak present. JC update: was planted in 2016 (W72-755). Treatment approved by variance in 2014.									
13	42210 - Natural Red Pine	Sawtimber Well	43.2	70	141-170	N/A	Natural red pine stand mixed with aspen, white pine, balsam fir, and a little bit of oak and maple. Variable density throughout. Large diameter super canopy red and white pine (97yrs old) with areas of dense pole size regen. Jack pine in southern portion. A good amount of aspen adjacent to the wetland.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	3	Pole/Sapling	5		Red Maple	Low	Variable	Sapling
								Bigtooth Aspen	15	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
								Balsam Fir	6	Pole	5		White Pine	Low	Variable	Sapling
								White Pine	2	Log	12		Red Pine	Medium	Variable	Sapling
								Red Pine	60	Log/XLog/Pole	12	70	Aspen (spp.)	Low	10 - 20 feet	Pole
								Jack Pine	8	Pole/Log	8		Cherry (spp.)	Low	< 5 feet	Tall Shrub
								Black/Red (Hybrid) Oak	6	Log/Pole	12					
14	320 - Upland Shrub	Nonstocked	10.8	0	Unspecified	No	Harvest completed by early 2015. Sale Name: Bear Track Harvest. Regen is patchy. Pockets of Aspen with open areas between. Oak regen has not yet passed the browse line.									
15	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	46.6	111	81-110	N/A	An average quality hdwd stand. EAB has caused mortality of ash component. Understory is mostly beech and ironwood w/ raspberry in areas with less canopy.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Sugar Maple	38	Log/Pole	10	111	Sugar Maple	High	< 5 feet	Sapling
								Basswood	37	Log/Pole	10		Basswood	Low	< 5 feet	Sapling
								Beech	2	Pole/Log	8		Beech	Low	5 - 10 feet	Sapling
								Red Oak	23	XLog/Log	18		Ironwood	Full	5 - 10 feet	Sapling
													Striped Maple	Low	< 5 feet	Tall Shrub
													Blackberry/Raspberry	Low	< 5 feet	Tall Shrub





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
17	4130 - Aspen	Sapling Well	174.6	8	Immature	N/A	Final harvested from spring 2013 through late summer 2014 under contract number 72-017-12-01, Mile Long Aspen. Stand harvest east to west. Eight retention islands within this stand, five along Boiling Springs and three along Mt. Tom. Most consist of pine and oak. 79 individually marked pine and oak throughout as well.																																																						
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18	4130 - Aspen	Sapling Well	37.1	6	Immature	N/A	Harvest completed in early 2015. Sale: Bear Track Harvest Small diameter aspen and mixed conifer. Some unmerch. timber. Areas of dense mixed conifer pockets.																																																						
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20	4131 - Aspen, Oak	Sapling Poor	12.1	17	Immature	N/A	Pockets of pole size pine and aspen clones approx. 7' tall. Cherry brush and sand willow present. Ground cover is sweet fern, blueberry, sedge, and bracken. Cut in 2004 through sale# 72-044-03-01.																																																						
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22	4130 - Aspen	Sapling Medium	55.1	8	Immature	N/A	Regen is a mix of aspen, oak and maple with scattered conifers. There is a ridge in southern portion of stand. Looks like two pvt parcels access their property through this stand. Retention consists of log size mixed pine, oak, and a few hemlocks.																																																						
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24	4130 - Aspen	Poletimber Medium	93.7	38	1-50	N/A	A poorer quality aspen stand. Around 35' tall. Red pine, jack pine, white pine and oak also present. The eastern portions of stand are very poor quality. Areas of upland brush mixed throughout.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
25	330 - Low-Density Trees	Nonstocked	16.6			No	Open stand with cherry shrubs of various sizes. Pockets of jack pine present. Sweet fern throughout. A couple aspen and red pine present.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low		Pole	
								Cherry (spp.)	High		Tall Shrub	
								White Pine	Trace		Pole	
26	500 - Water	Nonstocked	1.1			No	Turtles and ducks present. Plenty of woody debris in the water.					
27	4130 - Aspen	Poletimber Well	16.9	53	51-80	N/A	Variable stand, mixed in with the aspen are pockets of hdwd and low area w/ bam. There is a fairly thick hdwd understory present.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	3	Pole/Log	8	
								Red Oak	10	Log/Pole	10	
								Quaking Aspen	42	Pole/Log/Sap	8	53
								Bigtooth Aspen	40	Pole/Log/Sap	8	53
								Balsam Poplar	5	Pole	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Basswood	Medium	Variable	Sapling	
								Ironwood	High	Variable	Sapling	
								Deciduous Saplings	Low	Variable	Sapling	
								Deciduous Shrubs	Medium	Variable	Tall Shrub	
								Hazelnut (Beaked)	Medium	Variable	Tall Shrub	
								Prickly Or Wild Gooseberry	Medium	< 5 feet	Tall Shrub	
								Maple (spp.)	Medium	Variable	Sapling	
Alder	Low	5 - 10 feet	Tall Shrub									
Ash (spp.)	High	Variable	Sapling									
Oak (spp.)	Low	Variable	Sapling									
29	3102 - Grass	Nonstocked	11.2		Unspecified	Managed Opening	Maintained grassy opening. JC update: Rye was planted in the N1/2 in 2014, buckwheat & clover in 2015, and rye in 2016 (W72-755). Treatments approved by variance in 2014.					
30	3303 - Mixed Low Density Trees	Nonstocked	15.1			No	A red pine stand that was harvested but has not been planted. Pockets of pole size aspen and mixed pine. Some pine seedlings also present. Majority of stand is cherry brush. Cut in 2004 through sale# 72-044-03-01.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Aspen (spp.)	Trace		Pole	
								Red Pine	Trace		Seeding	
								Black Cherry	High		Sapling	
Pines (spp.)	Trace		Pole									
32	4130 - Aspen	Sapling Well	156.8	8	Immature	N/A	Steep rolling hills Harvested summer or 2013 under contract # 72-010-12-01. Pocket of red pine and some oak was left on hill to the east. Steepest hills had unmerchantable volume left on them. ORV trail in eastern portion of stand. Buffer left along boiling springs road.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	15	Sapling	1	
								Red Oak	5	Log	16	107
								Red Oak	10	Sapling	1	
								Quaking Aspen	3	Sapling	1	
								Bigtooth Aspen	62	Sapling	1	8
								Red Pine	5	Log/Pole	12	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**33**                      500 - Water                      Nonstocked                      1.5                      No                      A small pond choked with vegetation.

**35**                      4123 - Red Oak                      Sawtimber Poor                      33.2                      120                      1-50                      N/A                      Sawlog oak over pockets of aspen and mixed hdwd regen. A minor component of scattered beech, maple, and conifer. BBD present. Prior treatment removed all Aspen and marked trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Beech	2	Pole/Log	8		Deciduous Saplings	Low	Variable	Sapling
Red Oak	88	Log/XLog	15	120	Conifers	Low	Variable	Sapling
White Pine	2	Log/XLog	16		Hazelnut (Beaked)	High	< 5 feet	Tall Shrub
					Witch Hazel	Low	5 - 10 feet	Tall Shrub
					Aspen (spp.)	Full	5 - 10 feet	Sapling
					Cherry (spp.)	Medium	< 5 feet	Tall Shrub
					Oak (spp.)	Low	< 5 feet	Sapling

**36**                      4130 - Aspen                      Poletimber Well                      166.6                      36                      N/A                      A big kettle hole found in south east portion of stand. A tornado went through eastern and southern areas. The size and quality of aspen varies with topo, aspect, storm damage. Mixed hdwds found throughout. A trace of scattered hemlock in small clumps. Plenty of deer activity throughout the stand. The part of the stand East of Mt Tom Rd was final harvested in 1985 through Sale # 72-83-01. The Part West of Mt Tom Rd was final harvested in 1986 through sale # 72-041-83-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Sapling/Pole	4		Sugar Maple	Medium	5 - 10 feet	Sapling
Red Maple	2	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
Beech	2	Sapling	3		Beech	Medium	Variable	Sapling
Quaking Aspen	55	Pole/Sapling	5	36	Deciduous Shrubs	High	Variable	Tall Shrub
Bigtooth Aspen	39	Pole/Sapling	5		Striped Maple	Low	< 5 feet	Tall Shrub

**37**                      4133 - Aspen, Mixed Pine                      Sapling Poor                      80.7                      36                      Immature                      N/A                      Poor quality pockets of TA, starting to fill in w/ miscellaneous pine. Areas of upland brush. A few large oaks and red pine mixed throughout. A few pockets of above average oak regen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	67	Sapling/Pole	3	36	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	5	Sapling/Pole	3		Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub
White Pine	15	Log/Pole	10		Pines (spp.)	Low	Variable	Sapling
Red Pine	10	Log/Pole/XLog	16		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
Jack Pine	3	Pole/Sapling	5		Hawthorn (spp.)	Low	Variable	Tall Shrub
					Cherry (spp.)	High	Variable	Tall Shrub
					Oak (spp.)	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>39</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Well	88.0	21	Immature	N/A	Area salvaged after a tornado. Mostly saplings, a few pole and log size trees scattered about. Wet seeps present throughout. Steep holes common. Areas where some blow down was left. A pipeline cuts the stand in 1/2.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Sugar Maple	10	Sapling	2		
		Red Maple	19	Sapling	2		
		Basswood	10	Sapling	2		
		White Ash	5	Sapling	2		
		Beech	20	Sapling	3	21	
		Red Oak	2	Sapling	3		
		Paper Birch	2	Sapling	2		
		Quaking Aspen	25	Sapling	2	21	
		Bigtooth Aspen	2	Sapling	2		
		Ironwood	5	Sapling	2	21	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub		
		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub		
<b>40</b>	4130 - Aspen	Poletimber Well	192.3	52	81-110	N/A	A mixed aspen stand, varies from aspen/hdwds to aspen/pine. Some areas have rolling/steep topography. Becomes more of a solid aspen type as you head west. Hemlock in small groups and individuals scattered throughout the stand.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Sugar Maple	2	Pole/Sapling	7		
		Red Maple	5	Sapling/Pole	4		
		White Ash	2	Pole/Sapling	5		
		Red Oak	3	Pole/Log	8		
		Quaking Aspen	5	Pole/Sapling	6		
		Bigtooth Aspen	78	Pole/Sapling	6	52	
		Red Pine	5	Log/Pole	12		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Sugar Maple	Low	Variable	Sapling		
		Red Maple	Medium	Variable	Sapling		
		White Ash	Medium	Variable	Sapling		
		Deciduous Saplings	Low	Variable	Sapling		
		Deciduous Shrubs	Medium	Variable	Tall Shrub		
		Pines (spp.)	Low	Variable	Sapling		
		Hazelnut (Beaked)	Medium	Variable	Tall Shrub		
		Striped Maple	Low	Variable	Tall Shrub		
		Serviceberry (Juneberry)	High	Variable	Tall Shrub		
		Cherry (spp.)	Medium	Variable	Tall Shrub		
		Oak (spp.)	Low	Variable	Sapling		
<b>42</b>	3102 - Grass	Nonstocked	10.6		Unspecified	Managed Opening	Maintained grassy opening. Pockets of cherry and pine scattered throughout. JC update: planted in 2016 (W72-755).
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Pines (spp.)	Trace		Log		
		Pin Cherry	Low		Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																		
<b>44</b>	4130 - Aspen	Sapling Well	30.4	37	1-50	N/A	Seasonal wet areas throughout the stand. Majority of aspen is TA. Stand looks fairly healthy. Cut in 1984 through sale # 72-043-83-01.																																																																																		
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<b>47</b>	4110 - Sugar Maple Association	Sawtimber Well	19.6	96	81-110	N/A	Very hilly. A tornado has created natural canopy gaps throughout, this is where the best regen is establishing. Areas of damage to overstory. This stand has excellent wildlife quality-plenty of horizontal structure, den trees, nesting trees. Ash component has been eliminated by EAB.																																																																																		
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<b>48</b>	6230 - Cattail	Nonstocked	2.2			No	A wet area with cattails.																																																																																		
<b>49</b>	4199 - Other Mixed Upland Deciduous	Poletimber Poor	52.0	36	1-50	N/A	Stand is made up of pockets of poor quality aspen with scattered cherry. A minor conifer component present. Barely meets criteria for forested stand canopy closure. Was prescribed for final harvest in previous YOE but never cut. Designated motorcycle trail through South end of stand.																																																																																		
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<b>50</b>	4130 - Aspen	Sapling Well	142.2	36	Immature	N/A	Hills in the north. Mixed aspen with oak and red maple. Scattered sawlog size red pine. 30' + tall																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**52** 500 - Water Nonstocked 1.9 No Open water with clumps of cattails.

**53** 4199 - Other Mixed Upland Deciduous Poletimber Poor 26.2 21 1-50 N/A Hill Settlement area. Majority of walnut was planted. Staghorn sumac throughout. Rolling hills. Plenty of mast producing shrubs. Borderline non forested with a mosaic of forested/ non forested pockets. Much of the stand is regeneration resulting from the tornado.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	19	Sapling/Pole	4		Basswood	High	Variable	Sapling
Basswood	10	Sapling/Pole	5		Ironwood	Medium	Variable	Tall Shrub
Red Oak	15	Pole/Sapling	5	49	Deciduous Saplings	Low	Variable	Sapling
Paper Birch	2	Pole/Sapling	4		Deciduous Shrubs	Low	Variable	Tall Shrub
Bigtooth Aspen	30	Sapling	2	21	Staghorn Sumac	High	5 - 10 feet	Tall Shrub
Ironwood	10	Sapling	2		Autumn Olive	Medium	5 - 10 feet	Tall Shrub
Black Walnut	7	Pole/Log	7		Prickly Or Wild Gooseberry	Low	< 5 feet	Tall Shrub
Apple (spp.)	2	Pole/Sapling	4		Serviceberry (Juneberry)	Medium	Variable	Tall Shrub
White Pine	5	Sapling/Pole	4		Hawthorn (spp.)	Low	Variable	Tall Shrub
					Apple (spp.)	Low	Variable	Tall Shrub
					Cherry (spp.)	High	Variable	Tall Shrub
					Oak (spp.)	Medium	Variable	Sapling

**54** 42210 - Natural Red Pine Sawtimber Medium 21.7 86 81-110 N/A A mixed red and white pine stand. Quality and size varies. Slightly rolling topo. The northern understory is heavily stocked w/ aspen and red maple adjacent to the cuts. Jack pine present in southern portion. Some super canopy red and white pine aged 114-120 yrs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Log/Pole	10		Red Maple	Low	Variable	Sapling
Red Pine	68	Log/Pole	10	86	Quaking Aspen	Low	>20 feet	Sapling
Jack Pine	2	Pole	6		White Pine	Medium	Variable	Sapling
					Red Pine	Low	Variable	Sapling
					Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub
					Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
					Cherry (spp.)	Medium	Variable	Tall Shrub
					Oak (spp.)	Low	5 - 10 feet	Sapling

**56** 6229 - Mixed lowland shrub Nonstocked 1.9 No Areas of open water. Willow w/ blueberry, sedge, and cattails.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low		Non-Wood
Willow spp.	Medium		Tall Shrub
Huckleberry	Medium		Tall Shrub

**57** 4133 - Aspen, Mixed Pine Sapling Poor 18.9 36 1-50 N/A The stand is primarily cherry brush with pockets of aspen and some various pine mixed throughout. The aspen is below average quality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Sapling/Pole	3	36	Quaking Aspen	Low	5 - 10 feet	Sapling
Red Pine	20	Log	14		Pines (spp.)	Low	Variable	Sapling
Jack Pine	10	Sapling/Pole	4		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
					Cherry (spp.)	High	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
<b>59</b>	4132 - Aspen, Jack Pine	Sapling Medium	51.0	37		N/A	Pockets of aspen with scattered jack pine and upland brush. The aspen varies in size and quality. Cut in 1984 through sale # 72-10-83-01.																																																																		
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<b>60</b>	4110 - Sugar Maple Association	Sawtimber Medium	20.3	79	1-50	N/A	The stand was salvaged after a tornado. Crop/seed tree. A dense understory of hdwds present. Some basswood, beech, and aspen can also be found in overstory. EAB has caused mortality in just about all mature ash in the area.																																																																		
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<b>61</b>	42220 - Natural Jack Pine	Poletimber Well	18.8	61	51-80	N/A	Jack pine with scattered super cannot red/white pine and pockets of aspen. Some of the jack pine is already falling apart. Red pine in the S and E.																																																																		
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<b>62</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	131.3	116	81-110	N/A	A good looking hdwd stand. Rolling hills. Ash component has mostly died out due to EAB. It has recently been treated. A diverse understory present throughout. Some yellow birch also in canopy.																																																																		
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<b>63</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	79.0	21	Immature	N/A	This stand did not have salvage work done after the wind event, it was used as a control area. Lots of blow down. Tree size and quality varies, majority is still in the sapling size class. Some mature trees are still standing (super canopy).																																																															
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<b>65</b>	42220 - Natural Jack Pine	Poletimber Well	12.0	56	51-80	N/A	Mixed stand, Jack pine, red pine, quaking aspen and red maple. Varies from sub merchantable to log size.																																																															
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<b>66</b>	4130 - Aspen	Poletimber Well	25.7	63	51-80	N/A	ORV trail runs through this stand. QA & BT aspen. Mixed pine present in southern portion, mixed hwdws in the north.																																																															
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<b>68</b>	4130 - Aspen	Sapling Poor	5.0	8	Immature	N/A	Immature aspen and red maple with scattered red pine and oak logs. Harvested summer or 2013 under contract # 72-010-12-01. ORV trail in eastern portion of stand.																																																															
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<b>69</b>	4310 - Pine, Oak Mix	Sawtimber Well	5.0	88	111-140	N/A	Retention pocket left on top of a large hill. Originally contained only red pine but producer was unable to harvest some oak off the top.																																																								
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<b>70</b>	4123 - Red Oak	Sawtimber Well	10.3	99	51-80	N/A	Thinned to a target BA of 70sqft/acre through sale Bear Track Harvest in early 2015. Very nice looking oak with mixed hwdws. Sub canopy is sparse, a mix of beech, maple and oak.																																																								
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<b>72</b>	310 - Herbaceous Openland	Nonstocked	1.5	0		No	ORV trail runs through this stand. Open area within stand 66.																																																								
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<b>400</b>	3102 - Grass	Nonstocked	1.1		Unspecified		Producing GAS well, access rd passes through adjacent PVT property Riverside Energy MI LLC, State Elmer and Render C1-12																																																								
<b>401</b>	3102 - Grass	Nonstocked	1.2		Unspecified		Producing GAS well:BeritBurn Operating LPPermit # 47199, State Elmer 14-12Emergency: (888)250-1681																																																								
<b>402</b>	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified		Producing GAS Well BreitBurn Operating LP Permit # 47197, State Elmer 9-12 Emergency # (888)250-1681																																																								
<b>403</b>	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified		Producing GAS WellBreitBurn Operating LPPermit # 47200, St. Clinton 5-7 and 5-7HDL1Emergency #: (888)250-1681																																																								
<b>404</b>	110 - Low Intensity Urban	Nonstocked	1.0		Unspecified		Producing GAS Well: Breitburn, Permit# 55766, D1-7, D1-7 HDL-1, D1-7HD SUMP, D1-7HDN1, and D1-7HD1 Building and communication tower on site.																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
405	3205 - Mixed Upland Shrub	Nonstocked	2.2		Unspecified		An opening w/ mixed deciduous trees and shrubs. Two gas well permits: North end of stand- Quicksilver Resources Inc, Permit # 55767 USA Elmer Clinton D3-7, terminated point South end of stand- Breitburn, Permit# 56076 USA Elmer Clinton A3-18, producing GAS well				
								Sub-Canopy Species	Density	Avg. Height	Size
								Maple (spp.)	Trace		Sapling
								Staghorn Sumac	Low		Tall Shrub
								Balsam Poplar	Trace		Sapling
								Apple (spp.)	Trace		Tall Shrub
								Aspen (spp.)	Low		Sapling
								Cherry (spp.)	Medium		Tall Shrub
								White Pine	Trace		Sapling
406	110 - Low Intensity Urban	Nonstocked	2.4		Unspecified		Breitburn Facility. Multiple buildings and equipment at site. Producing GAS well State Clinton, 9-7, 9-7SUMP, 9-7HD1, 9-7HDN1, 9-7HD				
407	3102 - Grass	Nonstocked	1.2		Unspecified		Producing GAS WellBreitBurn Operating LPPermit # 46553, St. Elmer 7-12, 7-12HDSUMP, 7-12HDL1, 7-12HDL1Emergency #: (888)250-1681				
408	3102 - Grass	Nonstocked	1.2		Unspecified		Gas WellBreitBurn Operating LPPermit # 54384 State Clinton, A2- 7Emergency: (888)250-1681				
409	3102 - Grass	Nonstocked	1.3		Unspecified		Producing GAS well Beritburn, State Clinton 1-7				
410	3104 - Degraded	Nonstocked	1.2		Unspecified		Producing GAS Well: Lambda Energy (Merrit Energy on posted sign) Permit # 51552, State Clinton, C4-6 Emergency # 1-800-328-7430				
411	3102 - Grass	Nonstocked	1.1		Unspecified		Producing GAS well Lambda Energy Resources LLC Permit # 52305, State, Clinton, D2-6 Emergency # 1-800-328-7430				
412	3102 - Grass	Nonstocked	1.2		Unspecified		Producing GAS Well BreitBurn Operating LP Permit # 47138, State Elmer 16-1 Emergency #: (888)250-1681				
413	3102 - Grass	Nonstocked	1.3		Unspecified		Gas Well BreitBurn Permit # 47198, State, Elmer, 10-1, 10-1HD, 10-1SUMP Emergency #: (888)250-1681				
414	3104 - Degraded	Nonstocked	1.3		Unspecified		Gas Well BreitBurn Operating LP State Elmer 1 West and North, Permit #57963, C3-1DIR, Emergency #: (888)250-1681				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
415	3104 - Degraded	Nonstocked	1.5		Unspecified		Producing GAS well BreitBurn Operating LP Permit #: 55861, State, Elmer, A3-1 MPSC WELL 10743 Emergency #: (888)250-1681
416	3104 - Degraded	Nonstocked	1.0	0	Unspecified		Producing GAS Well BreitBurn: State Elmer 8-1 Permit # 52133 Emergency #: (888)250-1681
417	3104 - Degraded	Nonstocked	1.1		Unspecified		Producing GAS Well Lambda Energy Resources LLC Permit # 51550, State Clinton B1-6 Emergency # 1-800-328-7430
418	3104 - Degraded	Nonstocked	1.2		Unspecified		Producing GAS Well: Lambda Energy resources LLC Permit # 50458, State Clinton B3-6 Emergency #: 1-800-328-7430