



# Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72013

Entry Year 2025

Acreage: 1,749

County Oscoda

Management Area: High Sand Plains

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**Stand Examiner:** Trevor Kubitskey

## Legal Description:

T27N, R03E, Sections 3-6, 9 & 10  
T28N, R03E, Section 34

## 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:

The soils consist of predominately Kalkaska, Roselawn, Rubicon and Grayling sands which are well drained. In addition there are a few areas of poorly drained Emmet sandy loam soil, Rifle peat and spots of organic soils. The terrain is mostly gently rolling hills with a few very steep areas and a few low spots of poor drainage.

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

The compartment is a mix of state land and private property. Section six and the west half of section 5 are entirely state owned. The remaining state land has many private property interfaces but is accessible by county roads, except for a forty acre parcel located in section 10 (SENW).

## Unique Natural Features:

There is potential for rare dry prairie plants and insects to occur in grassy openings. *Haliaeetus leucocephalus* (Bald eagle) also has potential to be found within the compartment. Section 9 contains the headwaters of a tributary that flows into Perry Creek, which is a tributary of the Au Sable River.

## Archeological, Historical, and Cultural Features:

No known Archeological, Historical, or Cultural Features.

## Special Management Designations or Considerations:

Continue to manage wildlife openings within section 4 and continue to follow proper BMP guidelines along the drainage to Perry Creek in section 9. Areas in section 6 border the Frost Pocket Management Area.

## Watershed and Fisheries Considerations:

Mud Lake is a small 4 acre lake that is found within section 4. Perry Lake is found just to the south of the compartment. Some of the area within the compartment is part of the Perry Creek drainage. Section 9 contains the headwaters of a tributary that flows into Perry Creek.

## Wildlife Habitat Considerations:

The compartment's wide range of cover types ranging from northern hardwoods, aspen and oak, and super-canopy stature pine provide habitat for a variety of game and non-game wildlife species. Two managed wildlife openings are found in section 4.

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of medium-textured glacial till. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is in Section 4 and potential appears to be good. The sections in T27N-R3E are leased for oil and gas development. This area appears to be too far south to be productive from the Antrim Shale.

## Vehicle Access:

The current system of state highway (M-33) and certified county roads (Mount Tom, Cedar Run, Reber Road and Velda trail) provide good access throughout the compartment. All of the roads provide access for the private residences.

## Survey Needs:

Sections 3 and 10 will need surveys for future management considerations.

## Recreational Facilities and Opportunities:

There is only one designated trail (Mio Route) which runs through sections five and six. The compartment does provide recreational opportunities such as hunting, hiking, and fishing. The Comins Township Park is location off Reber Rd on the north side of Perry Lake.

**Fire Protection:**

The compartment's vehicle access is adequate along existing roads. The majority of forest types that are found within the compartment have low potential for extreme fire behavior. Perry Lake and Mud Lake are potential water sources.

**Additional Compartment Information:**

None.

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

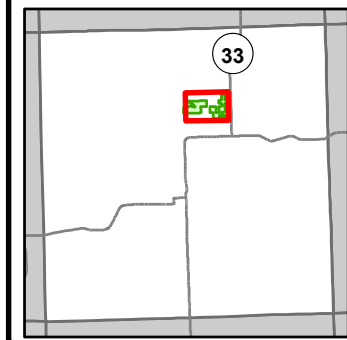
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

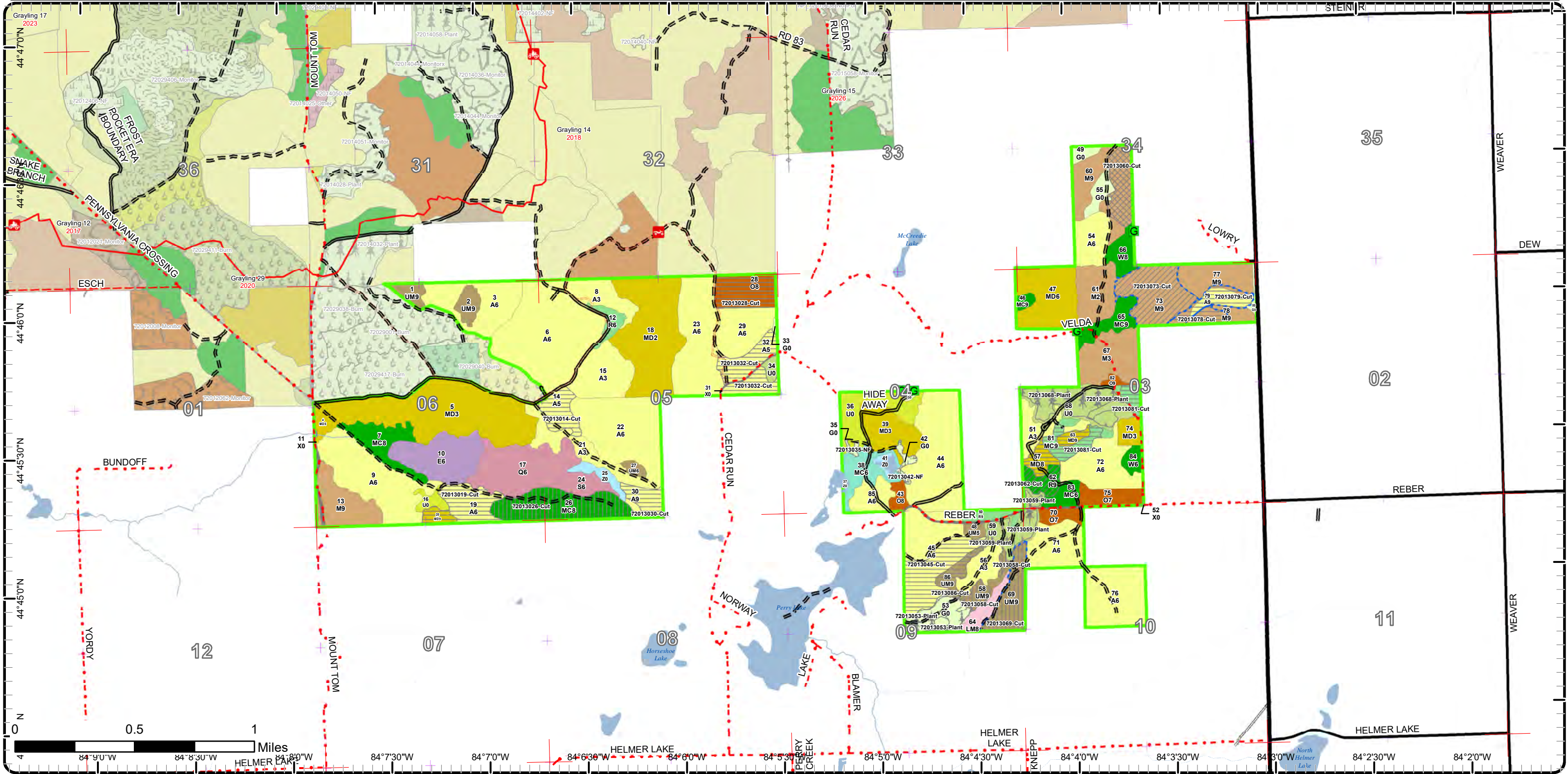
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 13  
 T27N R03E 03-06, 09-10  
 T28N R03E 24  
 County: Oscoda  
 Unit: Grayling  
 Mgmt Area: High Sand Plains  
 YOE: 2025  
 Acres: 1748.7 GIS Calculated  
 Examiner: Trevor Kubitskey  
 Map Revised: 11/28/2023  
 Map Phase: Post-Maps



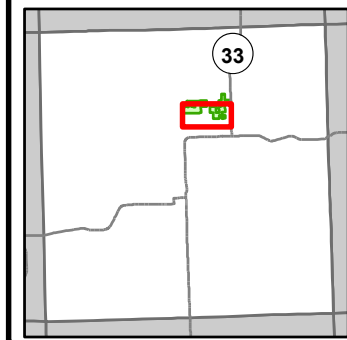
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- ORV Routes
- Designated ATV
- Designated ORV Route
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Planting (Tree Species)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water



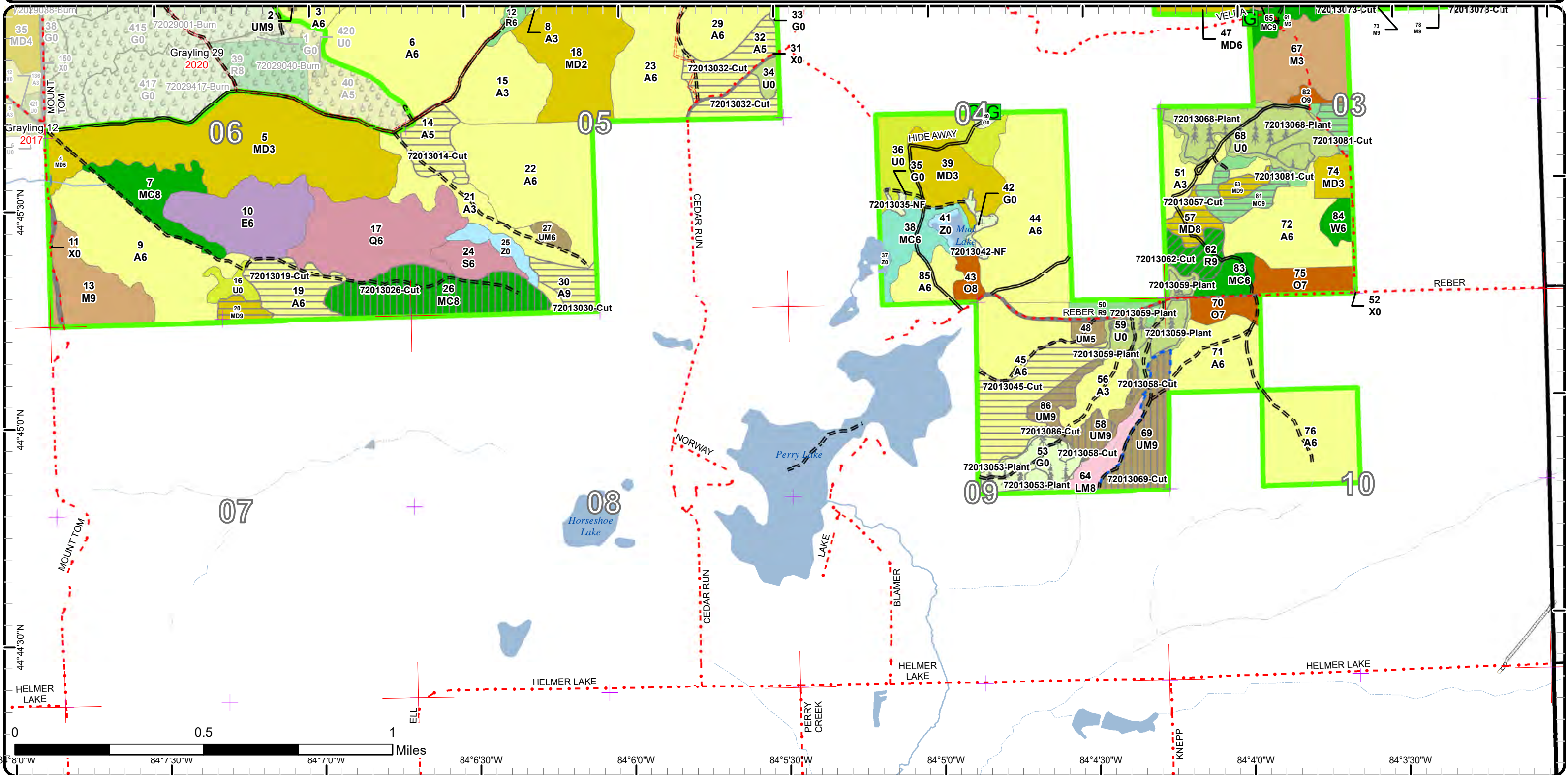


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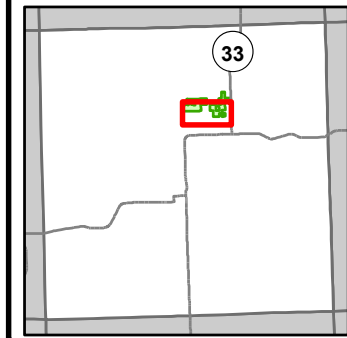




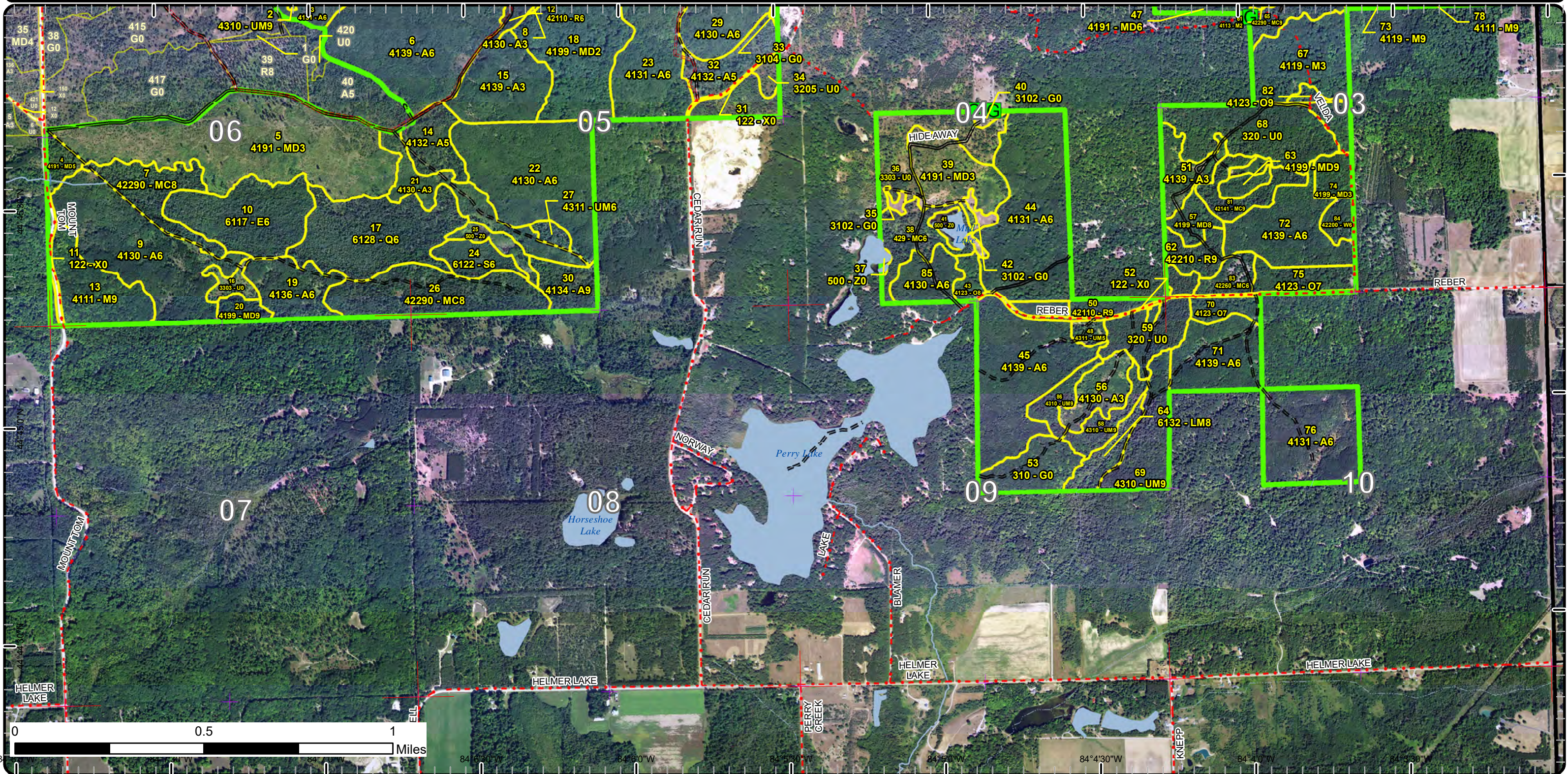


# Stand Boundary Map

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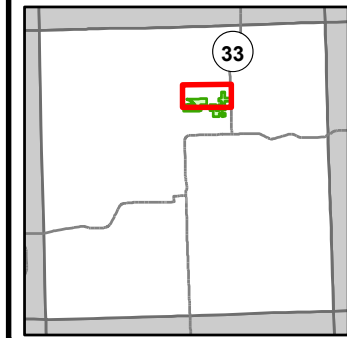
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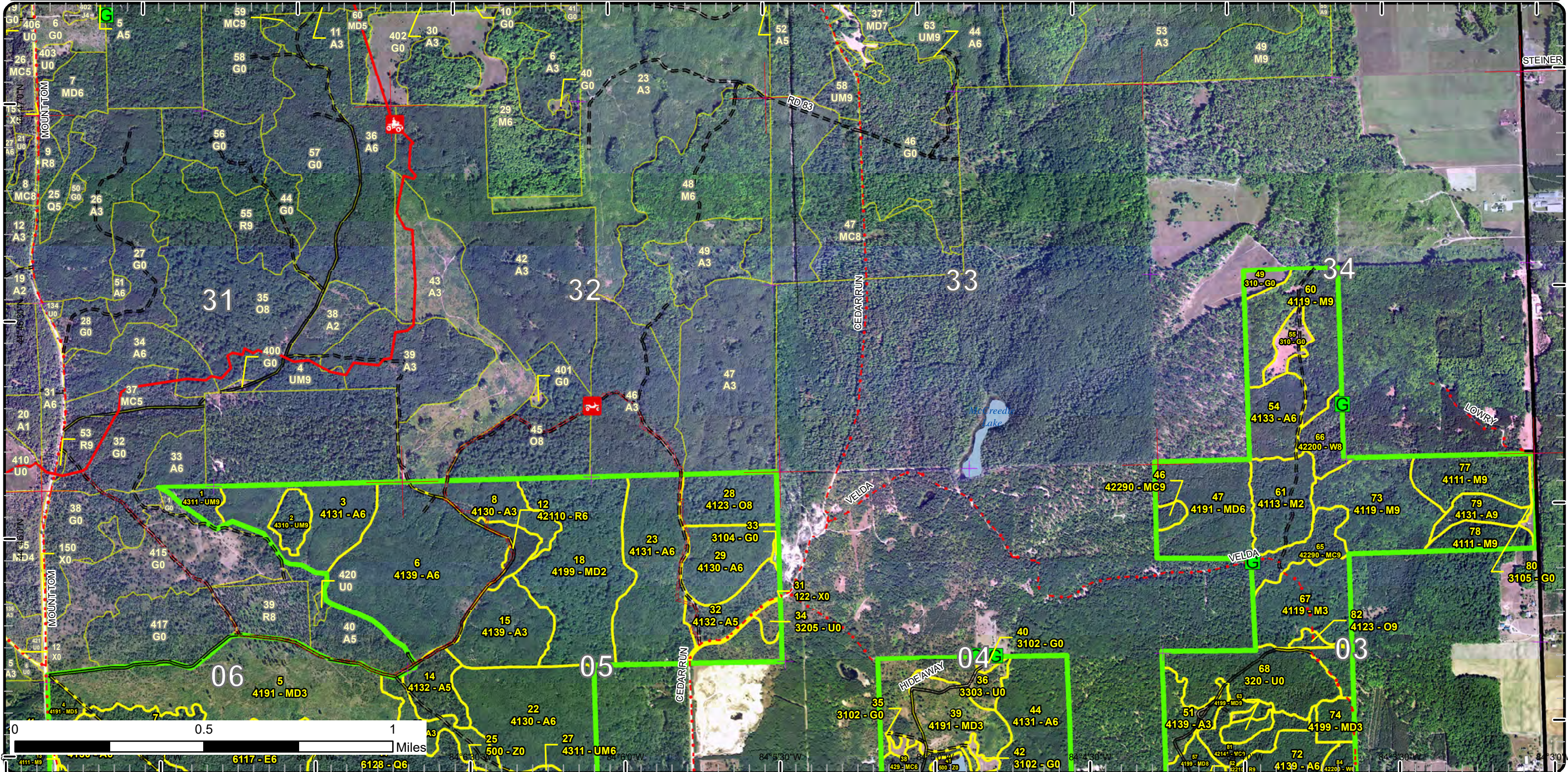


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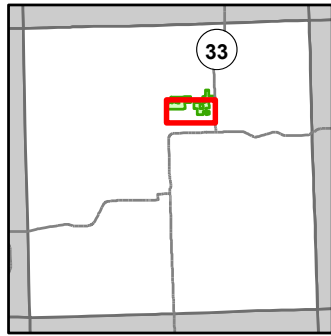
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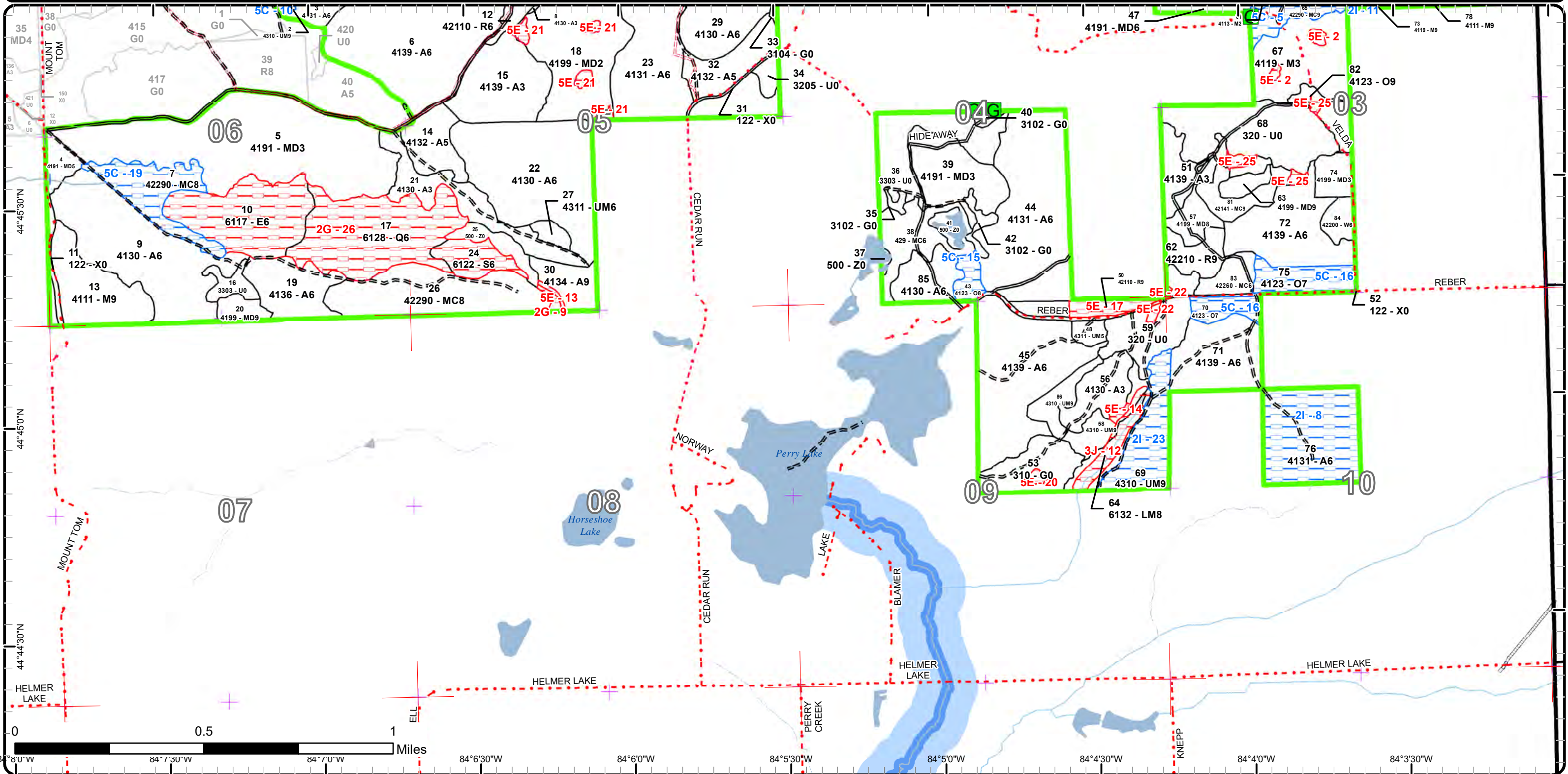


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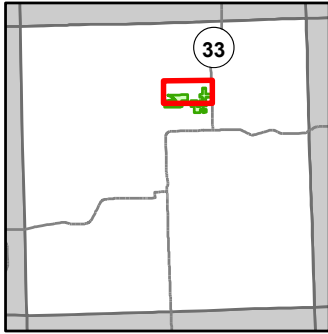
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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes



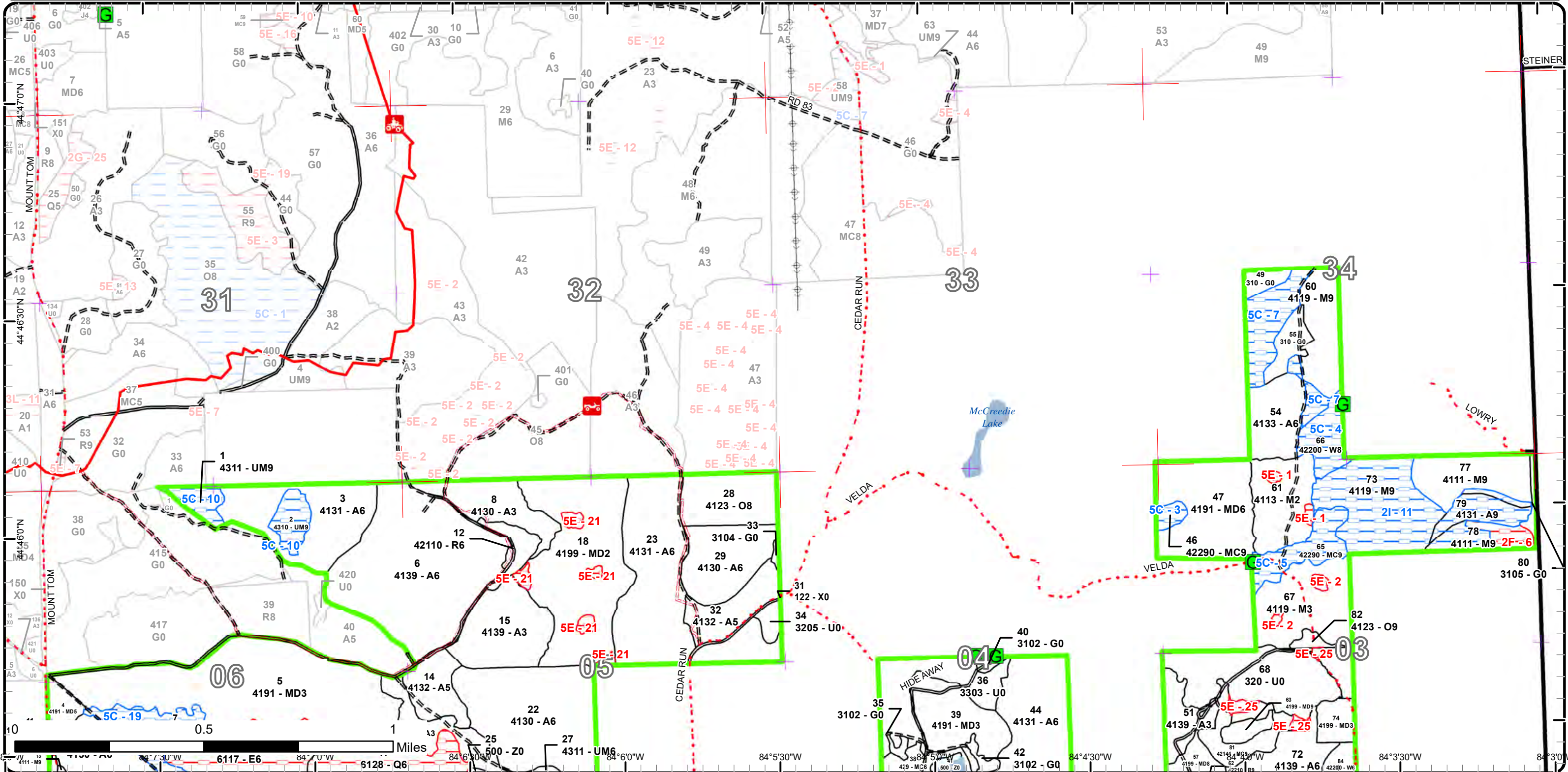


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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries







Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	0	14	122	415	170	14	22	0	0	0	0	0	0	0	0	0	0	757
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Low-Density Trees	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	49
Lowland Deciduous	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Lowland Spruce/Fir	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	71	121	0	47	0	0	6	0	0	5	4	8	0	0	0	0	0	261
Natural Mixed Pines	0	0	0	0	0	0	0	8	3	0	0	61	14	0	0	0	0	0	86
Northern Hardwood	0	57	0	0	0	0	0	0	0	40	40	24	38	0	0	0	0	0	198
Oak	0	0	0	0	0	0	0	0	0	0	46	2	0	0	0	0	0	0	48
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	19
Red Pine	0	0	0	0	0	0	7	0	0	0	17	0	0	0	0	0	0	0	23
Upland Conifers	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	17
Upland Mixed Forest	0	0	0	0	0	0	3	0	0	0	14	0	41	0	0	0	0	4	62
Upland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	6	0	0	0	0	12	0	0	0	0	0	18
<b>Total</b>	<b>153</b>	<b>128</b>	<b>135</b>	<b>122</b>	<b>462</b>	<b>170</b>	<b>62</b>	<b>59</b>	<b>13</b>	<b>40</b>	<b>122</b>	<b>110</b>	<b>172</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>1748</b>





## Report 2 – Treatment Summary

**Grayling Mgt. Unit**

**Compartment 13**

**Year of Entry: 2025**

**Acres of Harvest**

**Total Compartment Acres: 1,749**

Commercial Harvest - 242  
 Harvests with Site Condition - 80  
 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
<b>Aspen</b>	117	0	0	0	0	0	0	0	0	<b>117</b>
<b>Mixed Upland Deciduous</b>	17	0	0	0	0	0	0	0	0	<b>17</b>
<b>Natural Mixed Pines</b>	0	0	0	0	40	0	0	0	0	<b>40</b>
<b>Northern Hardwood</b>	6	20	0	0	0	37	0	0	0	<b>63</b>
<b>Oak</b>	22	0	0	0	0	0	0	0	0	<b>22</b>
<b>Planted Mixed Pines</b>	15	0	0	0	0	0	0	0	0	<b>15</b>
<b>Red Pine</b>	0	0	0	0	0	10	0	0	0	<b>10</b>
<b>Upland Mixed Forest</b>	8	0	0	0	30	0	0	0	0	<b>38</b>
<b>Total</b>	<b>185</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>70</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>322</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>	322	0	52	0	0	0	0	0	4	<b>378</b>
<b>Next Step</b>	0	28	0	0	0	52	430	52	0	<b>562</b>
<b>Total</b>	<b>322</b>	<b>28</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>430</b>	<b>52</b>	<b>4</b>	<b>940</b>





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

19	<b>72023019-Fuel Break</b>	36.4	42120 - Planted Jack Pine	Sapling Well	26	Unspecified	NonForestMgt	Other - Specify	330 - Low-Density Trees		No
<p><u>Prescription Specs:</u> Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.</p> <p>This fuel break is part of a long-range fire control plan.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Fire Break</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>											
8	<b>72024008-Fuel Break</b>	81.2	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	41	111-140	Harvest	Clearcut	3303 - Mixed Low Density Trees		No
<p><u>Prescription Specs:</u> Harvest all trees 1" DBH and up. No retention due to fuel break concerns.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u> Fuel Break</p> <p><u>Other Comment:</u> This fuel break is part of a long-range fire control plan.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
17	<b>72024017-Fuel Break</b>	57.3	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	31	Immature	NonForestMgt	Other - Specify	330 - Low-Density Trees		No
<p><u>Prescription Specs:</u> Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.</p> <p>This fuel break is part of a long-range fire control plan.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Fuel Break</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

**Approved Treatments:**

23	<b>72004023-Fuel Break</b>	17.3	330 - Low-Density Trees	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	330 - Low-Density Trees		No
<p><u>Prescription Specs:</u> Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.</p> <p><u>Next Step Treatments:</u></p>											





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Acceptable Acceptable Fuel Break Conditions.  
Regen:  
Other Re-up start date at next inventory cycle. Past treatment was closed out to show that it was completed.  
Comment:  
Site Condition  
Proposed Start Date: 10/1 /2023

<b>25</b>	<b>72008025-Fuel Break</b>	28.6	42120 - Planted Jack Pine	Sapling Well	8	Immatu re	NonForestMgt	Other - Specify	330 - Low-Density Trees		No
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Prescription Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.  
Specs:  
Next Step  
Treatments:  
Acceptable Functional fuel break conditions.  
Regen:  
Other This fuel break is part of a long-range fire control plan. Renew the treatment every inventory cycle.  
Comment:  
Site Condition  
Proposed Start Date: 10/1 /2023

<b>23</b>	<b>72008028-Fuel Break</b>	16.5	42120 - Planted Jack Pine	Sapling Well	8	Immatu re	NonForestMgt	Other - Specify	330 - Low-Density Trees		No
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Prescription Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.  
Specs:  
 This fuel break is part of a long-range fire control plan.  
Next Step  
Treatments:  
Acceptable Fuel Break  
Regen:  
Other Re-new treatment every 10 years.  
Comment:  
Site Condition  
Proposed Start Date: 10/1 /2021

<b>6</b>	<b>72009006-Fuel Break</b>	7.9	320 - Upland Shrub Nonstocked				NonForestMgt	Other - Specify	330 - Low-Density Trees		No
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Prescription Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.  
Specs:  
Next Step  
Treatments:  
Acceptable Functional fuel break conditions  
Regen:  
Other This fuel break is part of a long-range fire control plan. Renew the treatment every inventory cycle.  
Comment:  
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
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<b>10</b>	<b>72009010-Fuel Break</b>	51.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	330 - Low-Density Trees	No
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Prescription Specs: Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.

This fuel break is part of a long-range fire control plan.

Next Step Treatments:

Acceptable Regen: Fuel Break

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>22</b>	<b>72009026-Fuel Break</b>	38.7	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	10	Immature	NonForestMgt	Other - Specify	330 - Low-Density Trees	No
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Prescription Specs: Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.

Next Step Treatments:

Acceptable Regen: Functional fuel break conditions.

Other Comment: This fuel break is part of a long-range fire control plan. Renew the treatment every inventory cycle.

Site Condition

Proposed Start Date: 10/1 /2023

<b>42</b>	<b>72009042-Fuel Break</b>	20.7	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Other - Specify	330 - Low-Density Trees	No
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Prescription Specs: Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality. Avoid areas in stand 9 that may be too wet.

Next Step Treatments:

Acceptable Regen: Functional fuel break conditions.

Other Comment: This fuel break is part of a long-range fire control plan. Continue to renew the treatment every inventory cycle.

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
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<b>13</b>	<b>72011010-Fuel Break</b>	17.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	38	1-50	NonForestMgt	Other - Specify	330 - Low-Density Trees	No
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Prescription Specs: Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.

This fuel break is part of a long-range fire control plan.

Next Step Treatments:

Acceptable Regen: Fuel Break

Other Comment: Validate corners.

Site Condition

Proposed Start Date: 10/1 /2023

<b>10</b>	<b>72011065-Fuel Break</b>	39.7	42120 - Planted Jack Pine	Poletimber Well	41	51-80	Harvest	Clearcut with Retention	330 - Low-Density Trees	No
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Prescription Specs: Final Harvest all stems 1" DBH and up. Chipping required. Mark to leave scattered legacy Red Pine or Oak at 1 per acre to ease visual concerns.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory); NonForestMgt, Other - Specify

Acceptable Regen: Fuel Break

Other Comment: Stand notes mention a low/soft pocket in the middle of the stand. Exclude this pocket during sale prep if deemed necessary.

Site Condition

Proposed Start Date: 10/1 /2023

<b>14</b>	<b>72013014-Cut</b>	14.4	4132 - Aspen, Jack Pine	Poletimber Medium	52	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged No
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Prescription Specs: Final harvest all trees 2" DBH and up. 3-5% retention. Add drumming log spec, wildlife shrub spec and trail protection spec to sale. Protect sub-merchantable White Pine and Fir.

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

Acceptable Regen: Any amount of aspen, cherry, red maple, mixed pine and conifers that meet minimum stocking criteria.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024





Standard

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>19</b>	<b>72013019-Cut</b>	19.8	4136 - Aspen, Mixed Conifer	Poletimber Well	46	111-140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Specs: Final harvest all trees 2" DBH and up. Standard retention focused around large crowned mast producing Oak (found in the middle of the stand) and pine. Protect Legacy trees and any sub-merchantable fir and white pine. Run red line into adjacent lowland where possible to expand treatment.

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

Acceptable Regen: Any mix of aspen, balsam fir, birch, cherry, mixed pine, or red maple that meet minimum stocking criteria.

Other Comment: Add Drumming Log spec, brush pile spec and wildlife shrub spec into sale. Good corners on the south line.

Site Condition

Proposed Start Date: 10/1 /2024

<b>20</b>	<b>72013020-Cut</b>	5.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	91	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Specs: Final harvest all trees 2" DBH and up. No retention due to small stand size. Mark to leave a clump of 3-6 Mixed Pines and Large crowned Oaks to maintain mast and structural diversity.

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

Acceptable Regen: A mix of desirable hardwood species such as Sugar Maple, Oak, Cherry, Birch that meet minimum stocking criteria. A component of Red Maple, Aspen and mixed conifers is OK.

Other Comment: Good corners found for the south line. There is a REMON corner in the southwest portion of this stand.

Site Condition

Proposed Start Date: 10/1 /2024

<b>26</b>	<b>72013026-Cut</b>	39.8	42290 - Natural Mixed Pine	Sawtimber Medium	101	81-110	Harvest	Shelterwood	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Specs: Variable Shelterwood harvest marking to leave to a residual BA of 30-40 sq ft focusing on well established, healthy red and white pine. Do not cut any Red Oak or Red/White Pine over 26" DBH.

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

Acceptable Regen: Any combination of mixed red/white pine and upland conifers that meet minimum stocking criteria. Expect areas to regenerate heavier towards aspen, mixed deciduous.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>28</b>	<b>72013028-Cut</b>	22.3	4123 - Red Oak	Sawtimber Medium	94	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Final Harvest 2" DBH and up. Standard retention around Large crowned Oaks and Pines. Do NOT cut any white or red pine. Protect as much sub-merchantable white pine as possible. May have to exclude a portion of the east side due to slope. Add Soft Oak wilt, and pile tops on Oak and Sugar Maple stumps.

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

Acceptable Any combination of Aspen, Oak, Red/Sugar Maple, cherry and mixed conifers/pine that meet minimum stocking criteria.  
Regen:

Other Survey corner is present. NOTE: It is on a TWP line so there are two REMON corners. Look at LCRC before establishing blue line to make sure line is being ran off the correct corner.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>30</b>	<b>72013030-Cut</b>	10.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	61	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final Harvest all trees 2" DBH and up. Standard Retention should be placed along the stream as a buffer. Do NOT cut any White or Red Pine over 20". Protect as much sub-merchantable black spruce and balsam fir as possible. Put wildlife shrub spec and drumming log spec in sale.

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

Acceptable Any amount of aspen, red maple, birch, cherry, Oak or mixed conifers that meet minimum stocking criteria.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>32</b>	<b>72013032-Cut</b>	26.3	4132 - Aspen, Jack Pine	Poletimber Medium	49	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest all trees 4" DBH and up. Do NOT cut any Oak, Red or White Pine over 26" DBH. 3-5% retention on the west side of the ORV Trail. Add shrub protection spec, drumming log, oak wilt and trail protection spec.

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

Acceptable Any amount of aspen, red maple and cherry that meet minimum stocking criteria. Any component of mixed pine will be acceptable too. Stocking/densities will be variable and that is OK.  
Regen:

Other The ORV Trail line feature on MIFI is not accurate. It follows the Two-Track. Corner record found for the SE property corner, but was unable to find due to frozen soil. Dept of Conservation post found with metal location sign.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>35 72013035-NF</b>	1.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, burning, 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> Per Wildlife specification</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 /2024</p>										
<b>42 72013042-NF</b>	3.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, burning, 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> Per Wildlife specification.</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 /2024</p>										
<b>45 72013045-Cut</b>	32.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up. Standard retention placed around pockets of Mast producing Oak, mixed pines or conifers. Do NOT cut Hemlock.</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 that meets minimum stocking criteria. A minor component of Oak, Cherry, red maple and mixed conifers are also acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Corners are established. Some topography near the private line. Insert drumming log and wildlife shrub spec into sale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>53 72013053-Plant</b>	14.0	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Planting	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> flat plant RP</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Other, Pre-Commercial Thinning - Hand; Pesticide, Skidder - Release; Monitoring,</p> <p><u>Treatments:</u> Herbicide Use; ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> full stocking in planted RP</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 /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
<b>57 72013057-Cut</b>	7.5	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	112	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final Harvest all trees 2" DBH and up. No retention due to small stand size. Protect any Legacy trees found during sale prep.</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> A mix of aspen, red maple, cherry, birch, oak and mixed pine that meet minimum stocking criteria.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add Oak wilt specs due to adjacent oak in the Long Term Retention and private property.. Encourage pile of tops around any cut Oak stumps.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>58 72013058-Cut</b>	7.4	4310 - Pine, Oak Mix	Sawtimber Well	114	111-140	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Mark to leave residual White and Red Pine down to 30-40 sq ft. Focusing leaving trees that are well established in the canopy, and are healthy. Retention will be placed in the central where it is too steep for harvest. Protect legacy trees and any advanced fir/white pine regen.</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> Mixed Red/White Pine with a minor component of balsam fir, red maple, birch, cherry and oak that meet minimum stocking criteria.</p> <p><u>Regen:</u></p> <p><u>Other</u> RMZ has been identified. Per fisheries request is to maintain some canopy cover along RMZ for water temperature concerns.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>59 72013059-Plant</b>	12.5	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> plant RP</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release; Other, Pre-Commercial Thinning - Hand; ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Planted 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 /2023</p>										
<b>60 72013060-Cut</b>	19.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	89	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70-90 sq ft. Target the removal of poor quality/suppressed stems while releasing stems of better quality. Establish regen gaps at a rate of 1 gap per 5 acres with a minimum gap size of 200 x 200 ft (~ 1 acre gaps). Mark Pine and Oak where needed. Do NOT mark any hemlock. Where possible target overmature basswood and aspen into regen gaps.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of desirable northern hardwood species not dominated by Beech and/or ironwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Survey corners are established. Hard Oak wilt specs.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>62 72013062-Cut</b>	9.8	42210 - Natural Red Pine	Sawtimber Well	98	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand down to an average of 120 sq ft. Where BA is high (200+), do not remove more than 1/3 of the total ba. Target the removal of suppression trees or those with poor quality and form. Thin Oak pockets as needed. Where possible, remove larger diameter stems that will release good quality co-dominant stems.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine <u>Regen:</u></p> <p><u>Other</u> Oak wilt spec. Some hills within the stand so mark appropriately for equipment operability. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>63 72013063-Cut</b>	4.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	107	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up. No retention due to small stand size. Oak wilt specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any amount of Aspen, Red Maple, Cherry, Birch, Oak and/or mixed pine and conifers that meet minimum stocking criteria. <u>Regen:</u></p> <p><u>Other</u> Leave tops and slash on/around Oak stumps. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>68 72013068-Plant</b>	25.4	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> plant RP <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release; Other, Pre-Commercial Thinning - Hand; ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Planting levels to meet desired stocking level of red pine. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>69 72013069-Cut</b>	22.6	4310 - Pine, Oak Mix	Sawtimber Well	115	141-170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Variable shelterwood marking down to 30-40 sq ft. No cut Pine 26" and up. In areas heavier to deciduous (aspen, Oak, red maple) mark leave trees in tighter clumps to minimize issues with shading out regen. Protect as much sub-canopy/non-merch red/white pine regen as possible. Use different color marking for leave trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A mix of natural pines/conifers with a component of mixed deciduous such as aspen, oak, cherry, birch and maple. Expect areas in the north to regenerate heavier towards aspen. <u>Regen:</u></p> <p><u>Other</u> Survey located in the south, unsure on the north corner. <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>73</b>	<b>72013073-Cut</b>	37.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	93	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70-90 sq ft removing stems of poor quality and poor form. Where appropriate, thin from above removing larger diameter stems to release good quality co-dominant trees. Mark Oak, Aspen as needed. Avoid marking any Pine, Hemlock, or birch.

Next Step  
Treatments:

Acceptable Sugar Maple, Basswood, Oak, birch, cherry, mixed pine that meet stocking criteria.  
Regen:

Other Survey will be needed to establish corner in the SW.  
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

<b>78</b>	<b>72013078-Cut</b>	5.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	114	141-170	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest 2" DBH and up. No retention due to small treatment size. Do not cut any Pine or Hemlock. Soft Oak wilt specs. Boundary is adjusted to exclude portions of the stand that are too steep. Leave tops near Oak and Sugar Maple stumps to discourage deer browse.

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

Acceptable Any amount of desirable northern hardwood species such as basswood, sugar maple, oak, cherry, birch, red maple or aspen that meet minimum stocking criteria. Expect stand to regenerate to a MD stand, but a M type will also be accepted.

Other Survey is needed.  
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

<b>79</b>	<b>72013079-Cut</b>	13.9	4131 - Aspen, Oak	Sawtimber Well	62	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest 2" DBH and up. 3% retention in the SW around the large crowned Red Oak. Do not cut pine or hemlock. Leave/scatter tops around sugar maple and Oak stumps to discourage deer browse. Treatment boundary has been adjusted into adjacent stand in the north and west to grab more hardwoods and to allow more room for equipment to turn around on the top of the ridge.

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

Acceptable Any combination of Aspen, sugar maple, Oak, cherry, birch and mixed pine that meet minimum stocking criteria. If stand regenerates towards a MD/M cover type, that is acceptable.

Other Stand/treatment is a south facing slope, so red line should be ran to accommodate equipment operability. Soft Oak wilt specs.  
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>81</b>	<b>72013081-Cut</b>	15.3	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	108	141- 170	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" DBH and up. Mark to leave any Red or White Pine that meet Legacy tree criteria. Retention has already been identified. Soft <u>Specs:</u> Oak Wilt specs, and raptor specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of Aspen, Red Maple, Oak, or mixed pine (Red and White) that meet minimum stocking criteria. The idea is to expand the aspen <u>Regen:</u> clones from stands 63 and 57.</p> <p><u>Other</u> Retention may be slightly over 10% due to retaining some retention from the stand 8 harvest. See 5E comment. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

<b>86</b>	<b>72013086-Cut</b>	8.0	4310 - Pine, Oak Mix	Sawtimber Well	114	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final Harvest all trees 2"DBH and up. Retention will be designated as marked to leave clumps of 3-4 Mixed Pine or Mast producing Oak at a <u>Specs:</u> rate of 1 per acre. Do not cut any Red/White Pine over 26" DBH.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Stand is naturally converting to Aspen/mixed deciduous. Any combination of aspen, red maple, cherry, oak and/or mixed pine that meets <u>Regen:</u> minimum stocking criteria.</p> <p><u>Other</u> Drumming Log Spec <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

<b>88</b>	<b>72019088- Fuel Break</b>	36.7	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	330 - Low- Density Trees		No
<p><u>Prescription</u> Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire- <u>Specs:</u> resistant trees where possible to soften the visual impact without compromising fuel break functionality.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Fuel Break <u>Regen:</u></p> <p><u>Other</u> This fuel break is part of a long-range fire control plan. <u>Comment:</u></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
<b>43 72023036-Fuel Break</b>	44.0	790 - Other Bare/Sparsely Vegetated	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	330 - Low-Density Trees		No
<p><u>Prescription Specs:</u> Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Functional Fuel Break conditions.</p> <p><u>Other Comment:</u> This fuel break is part of a long-range fire control plan. Renew the treatment every inventory cycle.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>45 72023045-Fuel Break</b>	36.0	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	11	Immature	NonForestMgt	Other - Specify	330 - Low-Density Trees		No
<p><u>Prescription Specs:</u> Maintain a 5 chain wide fuel break using methods such as mulching, mastication, brushing, mowing, or burning. Leave scattered fire-resistant trees where possible to soften the visual impact without compromising fuel break functionality.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u> Fuel Break.</p> <p><u>Other Comment:</u> This fuel break is part of a long-range fire control plan. Renew the treatment every inventory cycle.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment Acreage Proposed: 908.5**



## Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 13

Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2I	5C	2F	2G	3J	5E
758	705	51	2	Aspen	51			1		1
38	37	0	1	Herbaceous Openland						1
31	31	0	0	Low-Density Trees						
49	0	0	49	Lowland Conifers				49		
38	0	0	38	Lowland Deciduous				38		
10	3	0	6	Lowland Mixed Forest					6	
10	0	0	10	Lowland Spruce/Fir				10		
260	256	0	5	Mixed Upland Deciduous						5
86	48	38	0	Natural Mixed Pines		38				
200	124	68	8	Northern Hardwood	47	20	5			3
49	25	24	0	Oak		24				0
19	16	0	3	Planted Mixed Pines						3
24	17	0	7	Red Pine						7
17	17	0	0	Upland Conifers						
62	23	37	3	Upland Mixed Forest	22	14			2	1
62	62	0	0	Upland Shrub						0
9	9	0	0	Urban						
12	12	0	0	Water						
17	5	11	0	White Pine		11				
1,751	1,390	229	131	Total Forested Acres	120	108	5	98	8	20
	79%	13%	8%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								

## Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 13

Year of Entry: 2025

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wait until adjacent stand is treated.							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is a good candidate for big tree management. Should reconsider management direction next entry.							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Maintain for structural diversity. Let adjacent stands regenerate more before treating.							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slopes. Could be operable if there was enough room in the south to turn equipment around before the property line.							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold stand. Recommend final harvest with stand 54.							
8	<b>Available</b>	<b>2I: Survey needed</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey is needed due to some discrepancies in corners.							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 13

Year of Entry: 2025

9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slope from upland to lowland along with very sensitive soils.							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold. Stand provides good structural diversity within an area dominated with Aspen and the adjacent Frost Pocket Rx burn. Most likely treat with aspen when mature.							
11	<b>Available</b>	<b>2I: Survey needed</b>	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> South line needs survey.							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Headwaters of a tributary that feeds into Perry Creek. This tributary and Perry Creek are designated as Cold Water streams.							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for stand 30. Also a stream buffer.							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 13

Trevor Kubitskey : Examiner

Year of Entry: 2025

15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold until stand 85 or 44 is ready.							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold. Treat with adjacent aspen stands when they are ready.							
17	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Trevor Kubitskey : Examiner

Compartment: 13  
Year of Entry: 2025

23	<b>Available</b>	<b>2I: Survey needed</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Need to validate the north corner.							
25	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention.							
26	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	97	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Difficult to regenerate cedar and an unmapped stream flows through stand and out to the East with areas of low wet ground throughout.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments





**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Cold Water 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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4311 - Pine, Aspen Mix	Sawtimber Well	6.5	94	111-140	N/A	Nice mixed stand. Provides good structural diversity from the adjacent prescribed burn as well as the adjacent aspen stand. East half is more White, Red Pine then transitions to more aspen/birch towards the west. Scattered Oak and Red Maple logs throughout.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	25	Log/XLog/Pole	14		Red Oak	Medium		10 - 20 feet	Sapling
Paper Birch	3	Log/Pole	10		Serviceberry (Juneberry)	Low		Variable	Tall Shrub
Bigtooth Aspen	22	Log/Pole	10		White Pine	Medium		< 5 feet	Sapling
White Pine	25	Log/XLog/Pole	16	94	Red Maple	Medium		10 - 20 feet	Sapling
Red Oak	15	Log	14		Beech	Low		5 - 10 feet	Sapling
Red Maple	10	Log/Pole	12		Black Cherry	Low		5 - 10 feet	Sapling
2	4310 - Pine, Oak Mix	Sawtimber Well	7.9	97	111-140	N/A		Southwestern facing aspect. Stand sits up on a slope/ridge with a valley running through it on the east side. Very nice natural mixed pine and oak. White Pine and Oak saplings have established extremely well and are recruiting nicely into canopy gaps. Lot of diameters in the Red/White pine in the 20's. The majority of the intermediate pine and oak under denser canopy are beginning to decline.  Small Oak/pine(WP&RP) stand located on two ridges and the valley between them surrounded by aspen sapling std. Oak is dominant followed by White pine and Red pine. Scattered pockets of pole size WP&RP throughout. Illegal ORV trail throughout std.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Oak	48	Log/XLog	14	97	Red Oak	High	< 5 feet		Seeding
White Pine	23	XLog/Log/Pole	20		White Pine	High	10 - 20 feet		Sapling
Red Maple	5	Log/Pole	10		Red Oak	High	10 - 20 feet		Sapling
Red Pine	24	Log/Pole/XLog	12		Beech	Low	Variable		Sapling
					Red Maple	Low	Variable		Sapling
					Red Pine	Low	5 - 10 feet		Sapling
					White Pine	Low	>20 feet		Pole
3	4131 - Aspen, Oak	Poletimber Well	35.7	27	51-80	N/A	Harvested in 1996. Very thick stand. Aspen dominated stand with a good mix of Oak and Red Maple. A small clone of quaking aspen present. Oak appears to have established very well but seems to be slightly behind the aspen as far as canopy position. Slightly larger overall diameters in the west. Stand is just entering pole size.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	4	Sapling/Pole	4		Red Oak	Medium		10 - 20 feet	Sapling
Bigtooth Aspen	50	Pole/Sapling	5	27	White Pine	Low		5 - 10 feet	Sapling
Quaking Aspen	8	Sapling/Pole	4		Red Pine	Low		5 - 10 feet	Sapling
Red Oak	20	Pole/Sapling	5		Red Maple	Medium		10 - 20 feet	Sapling
Red Maple	15	Sapling/Pole	4		Serviceberry (Juneberry)	Medium		Variable	Tall Shrub
Paper Birch	3	Sapling/Pole	4		Black Cherry	Medium		5 - 10 feet	Sapling
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	6.0	64	81-110	N/A		Stand is essentially split; White Pine, Quaking Aspen and Sugar Maple. White Pine is mixed with the quaking aspen in the north (more upland) then drops off into a seasonally wet lowland that is heavy to Rock Elm, American Elm, Sugar maple and Balsam poplar. Hard to identify where the true drainage is, but there are 2 equalization culverts under Mt Tom Rd.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Sugar Maple	25	Log/Pole	11		Ironwood	Medium	Variable		Sapling
Jack Pine	5	Pole/Log	9		Quaking Aspen	Low	10 - 20 feet		Sapling
Basswood	1	Log	15		Honeysuckle (spp.)	Low	5 - 10 feet		Tall Shrub
Rock Elm	5	Pole	5		Balsam Fir	Low	Variable		Sapling
Red Pine	1	Log	12		Sugar Maple	Low	Variable		Sapling
Red Maple	3	Log/Pole	10		Serviceberry (Juneberry)	Low	5 - 10 feet		Tall Shrub
Balsam Poplar	3	Pole/Log	9		White Pine	Low	Variable		Sapling
Quaking Aspen	27	Pole	8	64	Red Oak	Low	5 - 10 feet		Sapling
Black Cherry	2	Pole	7		Hawthorn (spp.)	Medium	5 - 10 feet		Tall Shrub
White Pine	25	Log/Pole/XLog	12		Black Cherry	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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**5** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 96.1 15 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Sapling	2		Red Pine	Low	< 5 feet	Sapling
Black Cherry	25	Sapling/Pole	3	15	Balsam Fir	Medium	Variable	Sapling
Red Oak	10	Sapling/Pole	2		Hawthorn (spp.)	Low	< 5 feet	Tall Shrub
Red Maple	10	Sapling/Pole	2		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	10	Sapling/Pole	3		Jack Pine	Medium	< 5 feet	Sapling
Jack Pine	10	Sapling/Pole	3		White Pine	Medium	5 - 10 feet	Sapling

Large stand harvested in 2008. Overall dominated by Aspen and Cherry. Scattered pockets of Oak and Red/White Pine saplings especially near the scattered super canopy pines in the north central. Hard to really pick out the true 'featured' species until the stand develops a little more. Stand contains some 'low' ground characteristics along the south edge due to some drainages from the adjacent lowland stands. Some areas still have an upland brush appearance to them.

**6** 4139 - Aspen, Mixed Deciduous Poletimber Well 87.5 37 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	4	Log/Pole	12		White Pine	Low	Variable	Sapling
Black Cherry	3	Pole	6		Red Oak	Medium	Variable	Sapling
Red Oak	15	Pole/Log/Sap	6		Beech	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Pole/Sapling	5		Black Cherry	Medium	5 - 10 feet	Sapling
Paper Birch	3	Pole/Sapling	5		Red Maple	Medium	10 - 20 feet	Sapling
Beech	3	Pole	6		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Red Maple	10	Pole/Sapling	5		Balsam Fir	Low	10 - 20 feet	Sapling
Sugar Maple	3	Pole/Log	9		Sugar Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	50	Pole	6	37				
White Pine	4	Log/Pole/XLog	10					

Stand harvested in 1986. Large somewhat variable stand with lots of rolling hills and steep slopes/ridges in the south. Terrain is flatter in the north. Common theme throughout is that Oak seems to have recruited better than Red Maple in the canopy. Areas of quaking aspen and cherry brush in portions in the south half. Larger diameters and more consistent stocking in the north half. Better densities of birch/sugar maple and white pine in the north as well. Some Xlog Oak and white pine in the NW.

**7** 42290 - Natural Mixed Pine Sawtimber Medium 20.9 105 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Log	9		Balsam Fir	High	Variable	Sapling
Red Maple	3	Log/Pole	10		White Pine	Low	Variable	Sapling
Balsam Fir	10	Log/Pole	11		Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	15	Log	12		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
White Pine	35	XLog/Log/Pole	19	105	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Pine	32	XLog/Log/Pole	18		Red Maple	Low	5 - 10 feet	Sapling
					Black Spruce	Low	5 - 10 feet	Sapling
					Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub

Odd transitional ground. Not quite true upland, but not quite true lowland. Strange pockets of hawthorn mixed with tag alder. Appears to be seasonally wet. Legacy Red and White Pines scattered throughout with balsam fir, red maple and aspen. Majority of the aspen is falling out. The more upland portions are the west and along the south edge then slightly drops down. Variance was approved in February 2014 to create horizontal cover. Hinge cutting was completed in winter 2014 (W72-742).





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>8</b>	4130 - Aspen	Sapling Well	19.7	27	1-50	N/A	Stand harvested in 1996, appears to have left scattered pockets of pine. Some pockets of poles but still overall a sapling stand. Oak is mostly stump sprout origin. Rolling hills with valleys running SW/NE. Very thick walking.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	35	Sapling/Pole	3	27	Ironwood	Low		Variable	Sapling
Paper Birch	6	Sapling	2		Black Cherry	Medium		5 - 10 feet	Sapling
Red Oak	13	Sapling/Pole	4		White Pine	Low		Variable	Sapling
Red Maple	15	Sapling/Pole	3		Red Maple	Medium		Variable	Sapling
Quaking Aspen	25	Sapling/Pole	3	27	Red Oak	Medium		5 - 10 feet	Sapling
Red Pine	3	Pole/Sap/Log	7		Serviceberry (Juneberry)	Low		5 - 10 feet	Tall Shrub
White Pine	3	Pole/Sap/Log	7		Beech	Low		5 - 10 feet	Sapling

<b>9</b>	4130 - Aspen	Poletimber Well	58.1	37	81-110	N/A	Large stand. The overall site quality decreases from SW to NE. Better quality bigtooth, maple and oak in the ridges that transitions down to quaking aspen and pockets of cherry brush and mixed conifers. The far NW corner appears to have a seasonal drainage that runs throughout it. Some areas along the two track in the north do contain a small density of Balsam Poplar. Areas of nice aspen/fir complex for grouse. Small pocket in NE near stand 16 does contain a mortality pocket within the aspen. Not sure if there was a wind event. Lots of dieback in the aspen with snapped tops.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	48	Pole	6	37	Hawthorn (spp.)	Medium		5 - 10 feet	Tall Shrub
Bigtooth Aspen	16	Pole	6		Balsam Fir	Medium		Variable	Sapling
Red Pine	3	Log/Pole	10		Red Maple	Medium		5 - 10 feet	Sapling
Jack Pine	3	Pole	5		Red Pine	Low		Variable	Sapling
Balsam Fir	3	Pole/Sapling	7		Black Cherry	Medium		Variable	Sapling
Red Oak	9	Pole	6		Serviceberry (Juneberry)	Medium		5 - 10 feet	Tall Shrub
Red Maple	10	Pole	5		White Pine	Medium		5 - 10 feet	Sapling
Sugar Maple	3	Pole/Sapling	5						
White Pine	5	Pole/Sap/Log	9						

<b>10</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	37.5	51	81-110	N/A	Mixed deciduous lowland. Good stocking of Birch, red maple and aspen. Scattered pockets of Cedar. Some canopy gaps are giving way to tag alder. Appears that the water table rises slightly moving east. Diameters become smaller as well as more blowdown. Areas definitely appear operable but concerns with removing too much would alter the water table and flood out some areas. A variance was approved in February 2014 to create horizontal cover. Hinge cutting was completed in winter 2014 (W72-742).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1	Log/XLog/Pole	12		Balsam Fir	High		Variable	Sapling
Paper Birch	18	Pole/Log	8		Black Spruce	Low		Variable	Sapling
Northern White Cedar	3	Log/XLog/Pole	12		Paper Birch	Low		10 - 20 feet	Sapling
Quaking Aspen	28	Pole/Log	8	51	Red Maple	Low		5 - 10 feet	Sapling
Red Maple	18	Pole	8		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Black Spruce	4	Pole	7						

<b>11</b>	122 - Road/Parking Lot	Nonstocked	2.9		Unspecified	No	Mt. Tom Rd
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<b>12</b>	42110 - Planted Red Pine	Poletimber Well	7.1	59	141-170	N/A	Stand was row thinned in May 2019 under contract 72-052-15. Dominated by Poles but some scattered logs throughout. Cores indicate a response from the thinning.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100	Pole/Log	9	59	Red Oak	Low		5 - 10 feet	Sapling
					Beech	Low		5 - 10 feet	Sapling
					Red Maple	Low		Variable	Sapling
					Black Cherry	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>13</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	27.2	114	81-110	N/A	Stand was part of a hardwood demonstration between Michigan State and the DNR. A TSI was done in 1981. Diameters in the sugar maple vary with larger diameters in the south becoming smaller to the north. The beech appears to be ok, some scale present but not significant. The Red Oak is fairly scattered but contains higher densities along the east edge and in the north. Rolling terrain.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		52	Log/Pole	10	114	Ironwood		Medium	5 - 10 feet	Sapling	
Basswood		15	Log	14		Balsam Fir		Trace	10 - 20 feet	Sapling	
Red Maple		6	Log/Pole	10		Beech		Medium	5 - 10 feet	Sapling	
Red Oak		15	XLog/Log	18		Sugar Maple		Low	10 - 20 feet	Sapling	
Paper Birch		5	Pole/Log	9		White Pine		Trace	Variable	Sapling	
Beech		7	Log/Pole	12							

<b>14</b>	4132 - Aspen, Jack Pine	Poletimber Medium	14.4	52	51-80	N/A	Fairly broken stand. Density, size and species composition vary. Southern portion is mostly jack pine, white pine dominated with scattered deciduous species. Central portion is more small pole quaking aspen with a more brushy/upland brush appearance. Northern portion is better quality quaking aspen with a nice fir understory. Some larger bigtooth logs on the edge near stand 22.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		25	Pole/Log	9		Red Maple		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		7	Pole/Log	8		Jack Pine		Low	Variable	Sapling	
Red Maple		2	Log/Pole	10		Black Cherry		Medium	5 - 10 feet	Sapling	
Red Pine		1	XLog/Log	20		Quaking Aspen		Low	10 - 20 feet	Sapling	
Black Cherry		5	Pole	6		Hawthorn (spp.)		Medium	Variable	Tall Shrub	
Quaking Aspen		48	Pole/Log/Sap	6	52	Red Oak		Low	5 - 10 feet	Sapling	
Balsam Fir		6	Pole/Sapling	6		Balsam Fir		High	Variable	Sapling	
White Pine		6	Log/Pole	10							

<b>15</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	29.3	27	1-50	N/A	Harvested in 1996 under contract 72-032-95. Very thick stand. Sub-canopy dense of red maple and oak. Appears that oak sprouted well just did not keep up with the aspen. Rolling terrain with better Oak densities and aspen diameters on the ridge tops. The few south facing slopes do seem to contain higher Oak densities. Few pockets of poles, but overall still sap.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		5	Sapling	3		White Pine		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		55	Sapling/Pole	4	27	Red Maple		Medium	10 - 20 feet	Sapling	
Jack Pine		2	Sapling/Pole	4		Beech		Low	5 - 10 feet	Sapling	
Red Oak		15	Sapling/Pole	4		Red Oak		Medium	5 - 10 feet	Sapling	
Red Maple		20	Sapling/Pole	3		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub	
Paper Birch		3	Sapling	3		Black Cherry		Medium	5 - 10 feet	Sapling	
						Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub	

<b>16</b>	3303 - Mixed Low Density Trees	Nonstocked	5.2		Unspecified	No	Upland brush, low density trees. Intermixed jack pine with cherry. Scattered White pine and Red pine logs. Edges do contain some aspen saps.
Sub-Canopy Species		Density	Avg. Height	Size			
Red Pine		Trace	>20 feet	Log			
Black Cherry		Medium	5 - 10 feet	Sapling			
Jack Pine		Medium	10 - 20 feet	Sapling			
White Pine		Low	5 - 10 feet	Sapling			
Red Oak		Low	5 - 10 feet	Sapling			
White Pine		Low	>20 feet	Log			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
17	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	49.2	114	111-140	N/A	A true mix of lowland conifers with a minor component of some deciduous. West part of stand is more scattered Log Cedar/Fir/Spruce transitioning into a more deciduous dominated in the middle with true cedar groves in the east. Scattered throughout are Supercanopy White Pines. Some areas of open canopy gaps are giving way to some tag alder development. Variance was approved in February 2014 to create horizontal cover. Hinge cutting was completed in winter 2014 (W72-742).																																																																														
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18	4199 - Other Mixed Upland Deciduous	Sapling Medium	70.5	5	Immature	N/A	Portions harvested in Spring 2018 and 2019 under contract 72-052-15. Very vigorous sprouting by the Red Maple and Oak except for those browsed back. Significant impact by deer browse within this stand resulting in a large amount of Oak not reaching minimum height requirement. Stand meets forested criteria. The NE portion that was cut in 2019 is not regenerating well, but that is only ~17% of the canopy. Pine establishment is minimal with the majority of the pine regen found on the edges, along skid trails or advanced regen from the sale.																																																																														
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19	4136 - Aspen, Mixed Conifer	Poletimber Well	19.8	46	111-140	N/A	Somewhat broken stand. North and south portions contain the majority of the overstory pine. The central portion contains the more consistent aspen grove with a thick sub-canopy development of fir and white pine. Two large diameter Oak were observed. Scattered Legacy Pines. Balsam fir near the north edge seems to have been hit possibly with SBW (lots of blowdown)  A stand of mixed Aspen with a mix of conifer. Aspen varies from small 4 inch poles to 8 inch poles. Mixed conifer consists of Red, White and Jack pine along with Balsam fir of pole and log size. Also some scattered Red maple. Dense undersory of mixed conifer and deciduous species including cherry brush.																																																																														
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20	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.1	91	81-110	N/A	Decided to keep this stand split out. Small sized stand with a white pine, oak hardwood component. Southwest corner sits up on a hill. Does provide good species diversity within the area.																																																																														
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21	4130 - Aspen	Sapling Well	22.4	27	1-50	N/A	Stand harvested in 1996. Very thin strip of quaking aspen with a decent conifer influence throughout.			
<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 Oak		5	Sapling/Pole	3		White Pine		Low	10 - 20 feet	Sapling
Balsam Fir		10	Sapling/Pole	4		Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub
Black Cherry		5	Sapling/Pole	4		Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		75	Sapling/Pole	3	27	Black Cherry		Medium	5 - 10 feet	Sapling
Jack Pine		5	Sapling/Pole	4		Red Oak		Low	Variable	Sapling
						Balsam Fir	Medium	5 - 10 feet	Sapling	
22	4130 - Aspen	Poletimber Well	60.4	37	81-110	N/A	Stand harvested in 1985 with a 4" cutting spec. Fairly consistent stand as far as density and species. Some areas of larger diameters, some logs of Aspen and Oak observed. The Red and White Pine inclusions are mostly on ridge tops. The southwest half is a south facing aspect with ridges and valleys funneling up to the north where it flattens out. Still some rolling terrain but not as significant.			
<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 Oak		15	Pole/Sapling	7		White Pine		Low	Variable	Sapling
Bigtooth Aspen		62	Pole	6	37	Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole/Sapling	5		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
White Pine		3	Log	14		Black Cherry		Medium	5 - 10 feet	Sapling
Red Maple		12	Pole/Sapling	6		Red Oak		Medium	5 - 10 feet	Sapling
Red Pine		3	Log	12		Red Pine		Low	Variable	Sapling
						Balsam Fir		Low	Variable	Sapling
						Red Maple		Medium	10 - 20 feet	Sapling
23	4131 - Aspen, Oak	Poletimber Well	53.7	47	81-110	N/A	Somewhat variable. Rolling terrain. South half is a more consistent stand dominated with aspen with scattered Pine and Oak. North half is almost the opposite; it transitions to more Oak/pine dominated with Aspen pockets. Red Maple seems to have the larger diameters in the south half. Very nice large crowned Red Oak found throughout. The east edge seems to drop down slightly in site quality giving way to more broken quaking aspen, with brushy cherry, oak and mixed pine saplings. Nice inclusion of red/white pine poles found in the west central.			
<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>
Quaking Aspen		5	Pole	6		Red Oak		Low	Variable	Sapling
Paper Birch		1	Pole/Log	9		Red Oak		Medium	>20 feet	Pole
Red Oak		20	Log/Pole/XLog	15		Red Pine		Low	5 - 10 feet	Sapling
Bigtooth Aspen		50	Pole	7	47	Red Maple		Medium	10 - 20 feet	Sapling
Red Pine		7	Log/Pole/XLog	12		Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub
Balsam Fir		1	Pole	7		White Pine		Low	Variable	Sapling
Red Maple		10	Pole/Log	9		Black Cherry		Medium	5 - 10 feet	Sapling
White Pine		6	Log/Pole/XLog	13						
24	6122 - Black Spruce	Poletimber Well	10.2	75	111-140	N/A		Extremely thick and lots of blowdown. Pockets of Fir, Cedar and birch with scattered over story white pine. Wet.		
<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>
White Pine		3	Log/Pole/XLog	15		Balsam Fir	High		Variable	Sapling
Paper Birch		2	Pole	6		Tag Alder	Low		5 - 10 feet	Tall Shrub
Northern White Cedar		3	Pole	8		Black Spruce	Medium		Variable	Sapling
Black Spruce		82	Pole/Log	8	75					
Balsam Fir		10	Pole/Sapling	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	500 - Water	Nonstocked	6.7		Unspecified	No	Beaver flooding. Contains mixed conifers on the edge along with pockets of tag alder and scattered trees. Was able to observe a stream channel but the beaver activity is fluctuating the water table. Flow is from west to east.
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26	42290 - Natural Mixed Pine	Sawtimber Medium	39.8	101	81-110	N/A	Appears to have been treated in the past. Unknown on timeline but estimating with the age of the aspen in the stand as well as the stand composition adjacent, it was harvested sometime in the 1970's. The highest density of Red Pine is within the central and eastern portions with the more scattered jack pine, balsam fir, white pine and mixed deciduous in the west. Very heavy component of Balsam fir throughout the stand. Aspen, Red maple and cherry pockets persist throughout. Red Pine and White Pine diameters averaged in the range of 22-24" DBH. A few true legacy trees and some in the mid teen's for diameter.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Balsam Fir					12	Pole/Log	8		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub			
Red Oak					3	Log/Pole	14		Red Maple	Low	Variable	Pole			
White Pine					12	XLog/Log/Pole	20		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub			
Red Pine				101	43	XLog/Log	19		Paper Birch	Low	Variable	Sapling			
Black Cherry					3	Pole/Log	9		Red Pine	Low	5 - 10 feet	Sapling			
Bigtooth Aspen					5	Pole/Log	8		Beech	Low	5 - 10 feet	Sapling			
Red Maple					3	Pole/Log	8		Balsam Fir	High	Variable	Sapling			
Paper Birch					2	Pole/Sapling	7		Black Cherry	Medium	5 - 10 feet	Sapling			
Quaking Aspen				46	12	Pole/Log	9		White Pine	Medium	Variable	Sapling			
Jack Pine					5	Pole	7		Red Oak	Low	10 - 20 feet	Sapling			

27	4311 - Pine, Aspen Mix	Poletimber Well	3.3	57	81-110	N/A	Unsure on history. Most likely left out of adjacent aspen harvests in 1986 and 1996. Mix of aspen, and pine. Some bigtooth encroachment but mostly over mature quaking aspen. Balsam Fir recruiting well.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Balsam Fir					6	Pole	6		Quaking Aspen	Low	10 - 20 feet	Sapling			
White Pine					30	Log/XLog/Pole	12		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub			
Red Maple					10	Pole	7		Red Maple	Low	Variable	Sapling			
Bigtooth Aspen					5	Pole/Log	8		Red Oak	Low	10 - 20 feet	Sapling			
Jack Pine					9	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling			
Red Pine					2	Log	16		Black Cherry	Medium	Variable	Sapling			
Quaking Aspen				57	35	Pole/Log	8								
Paper Birch					3	Pole	8								

28	4123 - Red Oak	Sawtimber Medium	22.4	94	81-110	N/A	Harvested in 1986 removing everything but Oak and Pine. Almost 2 different stands. West 1/3 appears like an Oak shelterwood where the central and eastern 2/3 are a true consistent Oak stand. Mixed hardwood encroachment in the East/Northeast. Oak is good quality, pockets appear to have slightly more Black Oak than true Red Oak.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Maple					8	Pole/Log/Sap	9		Red Pine	Trace	5 - 10 feet	Sapling			
Red Oak				94	65	Log/Pole	14		Sugar Maple	Low	10 - 20 feet	Sapling			
Sugar Maple					5	Log/Pole	10		Ironwood	Medium	10 - 20 feet	Sapling			
Beech					4	Pole/Log	8		Beech	Low	5 - 10 feet	Sapling			
White Pine					4	Log/Pole	13		Red Maple	Medium	10 - 20 feet	Sapling			
Bigtooth Aspen				37	14	Sapling/Pole	4		White Pine	Medium	Variable	Sapling			
									Red Oak	Medium	< 5 feet	Seeding			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>29</b>	4130 - Aspen	Poletimber Well	26.1	38	81-110	N/A	Stand harvested in 1986. Scattered Pine was left from harvest. Overall a south facing aspect with better oak densities and larger diameters on the ridge tops. Some small valleys in the north portion of the stand. Stand is merchantable, but definitely needs time to put on some size.			
<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>
Bigtooth Aspen		65	Pole	6	38	White Pine		Low	Variable	Sapling
White Pine		3	Pole/Log	8		Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub
Red Oak		14	Pole	7		Red Oak		Low	Variable	Sapling
Red Pine		3	Pole/Log	8		Red Pine		Low	Variable	Sapling
Red Maple		15	Pole/Sapling	6		Red Maple		Medium	10 - 20 feet	Sapling
						Black Cherry		Low	5 - 10 feet	Sapling
<b>30</b>	4134 - Aspen, Spruce/Fir	Sawtimber Well	12.3	61	81-110	N/A		Mature aspen stand starting to decline. The stand is split roughly 50/50 upland and lowland. There is a slight uphill gradient that transitions from lower ground in the SW to upland in the NE. There is a small stream running through the west portion of the stand. Good diversity and cover for wildlife. Legacy White Pine present near the stream.		
<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>
Red Maple		3	Pole/Log	9		Red Oak	Low		Variable	Sapling
Red Oak		3	Pole	7		Balsam Fir	High		Variable	Sapling
Quaking Aspen		54	Log/Pole	10	61	White Pine	Low		Variable	Sapling
Jack Pine		5	Pole	8		Red Maple	Medium		Variable	Sapling
Black Spruce		3	Log/Pole	10		Black Spruce	Low		5 - 10 feet	Sapling
Red Pine		2	XLog	24						
White Pine		5	Log/Pole/XLog	12						
Balsam Fir		20	Log/Pole	10						
Bigtooth Aspen		5	Pole/Log	8						
<b>31</b>	122 - Road/Parking Lot	Nonstocked	1.1		Unspecified	No	Cedar Run Road.			
<b>32</b>	4132 - Aspen, Jack Pine	Poletimber Medium	26.3	49	51-80	N/A	Very broken stand. South of Cedar Run Rd contains scattered aspen clones within a broken Jack Pine, upland brush type stand. Cherry brush and other shrubs dominate the openings. North of Cedar Run Rd contains larger diameter Oak, Red and White Pine with overmature aspen. The understory is mostly red maple, pine and oak saps.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Pole/Log	9		Balsam Fir		Low	5 - 10 feet	Sapling
Red Oak		3	XLog/Log	18		Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub
White Pine		3	Log/Pole	14		Red Oak		Medium	5 - 10 feet	Sapling
Quaking Aspen		38	Pole/Log	8	49	White Pine		Low	< 5 feet	Seeding
Red Pine		3	Log/XLog/Pole	16		Jack Pine		Low	Variable	Sapling
Bigtooth Aspen		5	Log/Pole	10		Black Cherry		Medium	5 - 10 feet	Sapling
Black Cherry		10	Pole	8		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub
Jack Pine		23	Pole/Sapling	7		Red Maple		Medium	Variable	Sapling
						Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub	
<b>33</b>	3104 - Degraded	Nonstocked	0.7		Unspecified	No	Old trespass site. Stand has been degraded with old berms, stump dumpings and etc from adjacent old gravel pit.			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
34	3205 - Mixed Upland Shrub	Nonstocked	3.4		Unspecified	No	Was mapped as a non-forested stand. Small brushy opening with cherry and raspberry. Scatter pines on the edges.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Black Cherry	High	5 - 10 feet	Tall Shrub					
								Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub					
35	3102 - Grass	Nonstocked	1.3		Unspecified	Managed Opening	Managed wildlife opening. Was mowed in 2015 and rye planted in 2016 (W72-785).									
36	3303 - Mixed Low Density Trees	Nonstocked	26.1		Unspecified	No	Upland brush/ low density tree stand. Contains clumps of trees with cherry brush, and other shrubs in between. Most of the forested pockets contain mixed pine with some mortality showing in the larger Red Pine. One clone of aspen in the south adjacent to stand 35. Nice component of soft mast species.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Black Cherry	Medium	5 - 10 feet	Tall Shrub					
								Quaking Aspen	Low	>20 feet	Pole					
								Red Pine	Low	>20 feet	Log					
								Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub					
								Red Pine	Low	5 - 10 feet	Sapling					
								Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub					
								White Pine	Low	>20 feet	Log					
								Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub					
								White Pine	Medium	Variable	Sapling					
								Jack Pine	Low	Variable	Pole					
								Red Oak	Low	5 - 10 feet	Sapling					
37	500 - Water	Nonstocked	1.0		Unspecified	No	Small water hole/pond that continues on to private land to the west. Beaver activity observed along the edge.									
38	429 - Mixed Upland Conifers	Poletimber Well	17.4	64	81-110	N/A	Brushy stand in the north half. Transitioning back and forth from Aspen, to Jack/White pine. Good Balsam fir component. The narrow strip in the south contains Red Pine, bigtooth and Red Oak. Site quality slightly increases moving south. Beaver activity present near stand 37. Jack pine overall is starting to decline.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Oak	3	Log/Pole	12		Balsam Fir	Medium	< 5 feet	Sapling
								Red Pine	20	Log/Pole/XLog	12		Paper Birch	Low	10 - 20 feet	Sapling
								Jack Pine	30	Pole/Log	9	64	Red Oak	Low	5 - 10 feet	Sapling
								Quaking Aspen	17	Pole/Log	9		Red Maple	Low	Variable	Sapling
								Red Maple	3	Pole/Log	8		White Pine	Low	Variable	Sapling
								Balsam Fir	3	Pole	6		Black Cherry	High	Variable	Sapling
								Bigtooth Aspen	5	Pole/Log	9		Serviceberry (Juneberry)	High	5 - 10 feet	Sapling
								Black Cherry	10	Pole/Sapling	7		Red Pine	Low	5 - 10 feet	Sapling
								White Pine	9	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
<b>39</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	24.5	15	1-50	N/A	Odd history on this stand. Harvested in 2008 and was supposed to get trenced and planted to Jack Pine. The FTP was not submitted and the MO for planted Jack Pine was not met. Through the 2015 Comp review process the Jack Pine MO was dropped. This stand is fully stocked with a mix of pine and deciduous species with overtopping Legacy Red Pines. Very dense/thick stand that seems to provide good cover as well as travel corridors. Stand does contain some smaller openings throughout. Old comp notes indicate that little blue stem was observed here in 2014. Was not able to see that this entry due to snow on conditions during field visit.																																																																				
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<b>40</b>	3102 - Grass	Nonstocked	1.5		Unspecified	No	Unsure on history. Doesn't appear that there was any history on past management (planting, etc.).																																																																				
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<b>41</b>	500 - Water	Nonstocked	4.0		Unspecified	No	Mudd Lake																																																																				
<b>42</b>	3102 - Grass	Nonstocked	3.1		Unspecified	Managed Opening	Maintained Wildlife opening. Mowed in 2015 and rye planted in 2016 (W72-785).																																																																				
<b>43</b>	4123 - Red Oak	Sawtimber Medium	5.0	97	81-110	N/A	Small Oak ridge running north/south. Minor White Pine component in the north. Nice, good quality Red Oak. More broken Oak canopy in the north giving way to the red maple and aspen.																																																																				
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<b>44</b>	4131 - Aspen, Oak	Poletimber Well	63.7	37	51-80	N/A	Stand was harvested in the mid 1980's leaving Oak and Pine. The scattered Log Oak and Pine pockets are on ridgetops with a nice mixed pine pocket near the managed opening (stand 42). Rolling topography within the stand with a few depressions that contain mostly cherry brush, quaking aspen and jack pine. The diameters are pole but the stocking level doesn't seem to be where it should be in some areas. The North and south thirds of the stand have the majority of the supercanopy Oak.																																																																				
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<b>45</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	57.3	46	81-110	N/A	Highly variable aspen stand with rolling hills, steep valleys and slopes throughout. Heavy pine influence throughout. Stand is essentially split into thirds. The south third contains the majority of the pine and better quality bigtooth. This portion averaged roughly 75% pine in the canopy based on imagery and BA swings. The middle portion has more scattered pine with a somewhat broken canopy in spots yielding a better sub-canopy white pine seedling/sapling development. The northernmost third (north of the two track) contains the smallest diameters out of the stand with a large depression with steep slopes sloping down into the property line in the NW. Overall there are pockets of logs as well as areas with smaller poles and saps. Scattered pockets of hardwood influence (birch, red maple, oak, beech).																																																												
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<b>46</b>	42290 - Natural Mixed Pine	Sawtimber Well	2.9	75	201+	N/A	Very nice natural Red/White Pine stand with a minor component of Red Oak and Red Maple. Doesn't appear to have been treated, most likely left out of the 1985 harvest in stand 47. Stand is somewhat in a bowl with a west facing aspect. Most intermediate pine poles are stagnant. Not much subcanopy development also due to very little canopy space (little light hitting the ground).																																																												
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<b>47</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	39.5	37	81-110	N/A	Stand was harvested in 1985 with a 4" cutting spec. Either there was a lot of pine under 4 inches or all pine was left because this stand is very heavy to White Pine. The stand does have a multi aged appearance with supercanopy red/white pine and Oak, then the featured stand of aspen, mixed deciduous and then the sub-canopy. Stand has rolling topo which seems to change with species composition. Upland, better ground areas contain bigtooth, oak and red maple, with some of the poorer quality valleys containing White Pine and quaking aspen.																																																												
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<b>48</b>	4311 - Pine, Aspen Mix	Poletimber Medium	3.5	51	1-50	N/A	A lot going on within a small sized stand. Extremely variable with essentially a 3 tiered age class. Super canopy Oak and Pine, with an established large pole/small log white pine component with a thick 26 year old age class of aspen, mixed deciduous and pine. Old notes indicate that this was used as a harvesting demonstration during the Logging Exo that was carried out in the compartment. Heavy deer browse on the Oak.																																																												
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<b>49</b>	310 - Herbaceous Openland	Nonstocked	4.2		Unspecified	No	Previous trespass. DNR Set corner was set 10 years ago. Mostly grasses and knapweed.																																																												





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>50</b>	42110 - Planted Red Pine	Sawtimber Well	6.7	94	141-170	N/A	This stand is long-term retention for stand 59. Unsure on why there was so much retention left. No justification in the sale checklist. Old notes indicate that this may have been planted in the 1920's due to the density and close spacing. Scattered log Oak, aspen and white pine throughout. Meets mapping standards for it's own 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>
Black/Red (Hybrid) Oak		5	Log	14		Black/Red (Hybrid) Oak		Medium	Variable	Sapling
Red Pine		90	Log	14	94	White Pine		Low	5 - 10 feet	Sapling
Bigtooth Aspen		5	Log/Pole	10						
<b>51</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	14.9	20	51-80	N/A	Multi-polygon stand Harvested in 2003. Some larger diameter Oak and mixed Pine left. Good vigorous aspen, red maple and Oak sprouts. Transitions from Oak groves, to aspen, to mixed pine, to Red Maple/Beech. Good Oak densities in all size classes; sapling, poles and logs with good single stem regeneration. The stand was apart of a logging expo in the early 2000'. Overall the stand is on the cusp on pole. Still a lot of sapling sized stems. The logging expo resulted in the variety of size classes present due to leaving certain diameters and species during the harvest.			
<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 Oak		15	Pole/Sap/Log	8		Red Maple		Low	5 - 10 feet	Seeding
Beech		10	Sapling/Pole	4		White Pine		Low	< 5 feet	Seeding
Paper Birch		3	Sapling	3		Black Cherry		Low	5 - 10 feet	Sapling
Bigtooth Aspen		54	Sapling/Pole	4	20	Red Oak		Low	Variable	Sapling
Red Pine		3	Pole/Log/Sap	8						
Red Maple		10	Sapling/Pole	4						
White Pine		5	Log/Pole	10						
<b>52</b>	122 - Road/Parking Lot	Nonstocked	4.7		Unspecified	No	Reber Road			
<b>53</b>	310 - Herbaceous Openland	Nonstocked	17.9	0	Unspecified	4211 - Planted Red Pine	Mature RO stand was final harvested w/ island retention in 2017 (#051-15). Regen failed the monitoring Rx, w/ most oak stumps not sprouting and the remainder heavily browsed. Variance passed Feb 2023 to change M.O. to planted RP, with site prep and release treatments as needed. Site prep sprayed Aug 2023 (C72-867).			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Black Cherry		Low	< 5 feet	Sapling						
White Pine		Trace	< 5 feet	Sapling						
Hemlock		Trace	10 - 20 feet	Pole						
Bigtooth Aspen		Low	< 5 feet	Sapling						
Red Maple		Low	Variable	Sapling						
Red Oak		Trace	< 5 feet	Sapling						
White Pine		Trace	>20 feet	Log						
<b>54</b>	4133 - Aspen, Mixed Pine	Poletimber Well	18.6	37	81-110	N/A	Harvested in 1985 with a cut all 4 inch and up spec. Appears to have cut around the White Pine inclusions throughout. Some rolling topography with areas of smaller diameters and poorer quality quaking aspen. Majority of the stand transitions back and forth from Aspen to Oak/Maple. Sugar maple established well but does seem slightly behind the aspen and oak (more intermediate/co-dominant).			
<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		5	Pole/Sapling	5		White Pine		Low	Variable	Sapling
White Pine		18	Pole/Sap/Log	7	58	Red Maple		Medium	10 - 20 feet	Sapling
Red Maple		10	Sapling/Pole	3		Black Cherry		Medium	5 - 10 feet	Sapling
Quaking Aspen		5	Pole/Sapling	5		Beech		Low	Variable	Sapling
Red Pine		2	Pole	8		Sugar Maple		Low	10 - 20 feet	Sapling
Bigtooth Aspen		45	Pole	6	37					
Red Oak		15	Pole/Log/Sap	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
55	310 - Herbaceous Openland	Nonstocked	7.4		Unspecified	No	Old landing possibly or old maintained opening. Scattered pine regen. Mostly grasses, ferns and knapweed.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								White Pine	Low	< 5 feet	Seeding					
								Jack Pine	Low	5 - 10 feet	Sapling					
								Paper Birch	Trace	>20 feet	Pole					
								White Pine	Low	>20 feet	Pole					
								Black Cherry	Low	5 - 10 feet	Sapling					
								Red Oak	Trace	5 - 10 feet	Sapling					
56	4130 - Aspen	Sapling Well	14.1	18	Immature	N/A	Stand harvested in 2005 under contract 72-060-05. Scattered pockets of mixed pine. Some scattered poles of Red and White Pine. Oak seems to have established fairly well in portions but has since been overtaken in the canopy. Stem densities are fairly consistent with some lesser stocked areas. Overall, nice thick regeneration.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Oak	5	Sapling	2		White Pine	Low	< 5 feet	Seeding
								Beech	5	Sapling	2		Red Oak	Medium	< 5 feet	Sapling
								Bigtooth Aspen	65	Sapling	2	18	Beech	Medium	< 5 feet	Sapling
								Jack Pine	4	Sapling	2		Black Cherry	Low	5 - 10 feet	Sapling
								White Pine	3	Pole/Sapling	5		Red Pine	Low	< 5 feet	Seeding
								Red Maple	15	Sapling	2					
								Red Pine	3	Sapling/Pole	4					
								57	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	7.5	112	81-110	N/A	Odd stand. No history of harvest but has the appearance of similar stands that have had everything but Oak and Pine cut. The aspen is fair, with some logs but overall poles. Jack pine pockets, with areas of red maple and beech. Supercanopy Red/White Pine present. Stand transitions into more Log/Xlog Oak to the south and east.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height									Size
White Pine	3	Log/XLog/Pole	16		Beech	Medium	5 - 10 feet									Sapling
Jack Pine	3	Pole/Log	8		White Pine	Low	Variable									Sapling
Bigtooth Aspen	35	Pole	7	41	Red Maple	Medium	10 - 20 feet									Sapling
Red Oak	44	Log/Pole/XLog	12	112	Black Cherry	Medium	5 - 10 feet									Sapling
Red Pine	3	Log/XLog	17		Red Oak	Medium	5 - 10 feet									Sapling
Red Maple	12	Pole/Log	8													
58	4310 - Pine, Oak Mix	Sawtimber Well	9.9	114	111-140	N/A	Stand composition is essentially split by the two-track. The east side of the stand is a east/southeast facing aspect with heavy lowland deciduous and coniferous influence especially closer to stand 64. Heavier to red maple, birch, balsam fir, white pine and black spruce. The southeast portion is a gradual slope that contains a nice grove of natural pine as well as a small inclusion of hard maple and Oak. The west portion of the stand contains the majority of the white pine with mostly larger crowned Oak and more upland deciduous component such has beech, red maple, aspen and oak. More scrubby, brushy beech/aspen understory in the west/nw portions. Legacy pines present.									
																Canopy Species
								Red Maple	10	Log/Pole	14		White Pine	Medium	Variable	Sapling
								Red Oak	28	Log/XLog	16		Beech	Medium	Variable	Sapling
								White Pine	5	Log/Pole/XLog	16		Bigtooth Aspen	Low	10 - 20 feet	Sapling
								Bigtooth Aspen	9	Log/Pole	13		Balsam Fir	Medium	Variable	Sapling
								Paper Birch	4	Pole/Log	9		Black Spruce	Low	10 - 20 feet	Sapling
								Sugar Maple	2	Log/Pole	10		Red Oak	Low	5 - 10 feet	Sapling
								Red Pine	42	Log/Pole/XLog	16	114	Red Maple	Low	10 - 20 feet	Sapling
													Red Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	320 - Upland Shrub	Nonstocked	20.6	0	Unspecified	4211 - Planted Red Pine	RP-MD stand was cut in 2018 (#052-15), with retention north of Reber Rd (split out as stand 50). FRD chopped June 2021 (C72-867) excluding an acre of steep ground in the south-center. Contract trenched May 2022. Some areas excluded from trenching in the south due to slopes. Site prep sprayed Aug 2023.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
60	4119 - Mixed Northern Hardwoods	Sawtimber Well	40.3	89	111-140	N/A	Variable hardwood stand with a beech problem. Sugar maples are mostly large poles/small logs with better quality and higher stem densities in the north central and east half of the stand. Large diameter/large crowned Oaks and relic pines dominate the west half with a broken sub-canopy of mostly beech and ironwood saps with poorer quality maple (multi stem, epicormic branching). Some rolling terrain in the east half. Some inclusions of white pine intermixed with aspen in the south next to stand 55. Beech scale is present within the stand with some trees completely covered and some without any scale.																																																																									
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61	4113 - R.Maple, Conifer	Sapling Medium	24.5	5	Immature	N/A	Final harvested in 2018 under contract 72-049-15 Velda Trail Oak. Stand passed regen check, some patchy areas that may have been heavier to pine instead of deciduous species. Good establishment of Red and White pine throughout. Some scattered advanced pine and sugar maple regen. Oak sprouted okay, with some stumps producing no sprouts at all. Raspberry heavy in spots. Majority of the red/white pine are 1-2 feet tall, they do meet criteria for natural regen due to the height requirement only being 6 inches for pine.																																																					
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62	42210 - Natural Red Pine	Sawtimber Well	9.8	98	141-170	N/A	Harvested in 1998 removing all red maple, aspen, and any marked to cut Oak/Pine. The Northeast and northwest portions are the highest densities with 180+ sq ft, with lower densities in the south but more Oak. Most saplings are within old skid trails or canopy gaps.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>63</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.1	107	111-140	N/A	Aspen/Oak stand that sits on a ridge top. Minor pine component in the canopy but does have a good white pine component throughout the sub-canopy. Aspen are over mature.			
<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		3	Log/XLog	16		Red Pine		Low	Variable	Sapling
White Pine		3	Log/Pole	11		White Pine		Medium	Variable	Sapling
Red Maple		5	Pole/Log	7		Beech		Medium	5 - 10 feet	Sapling
Bigtooth Aspen		35	Log/Pole	13		Red Oak		Low	10 - 20 feet	Sapling
Red Oak		54	Log/XLog/Pole	15	107	Red Maple		Low	Variable	Sapling
<b>64</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	9.6	118	111-140	N/A	Stand contains the headwaters of a tributary that flows into Perry Creek. This portion is identified as a Cold Water stream. Forested on both sides with the center containing mostly Tag Alder, and marsh grasses. Areas of blowdown due to overmature and weakened trees. Further south on the west side contains a small "upland" sliver that contains log Red Maple, Birch and Aspen with a thick sub-canopy of balsam fir.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		9	Log/Pole	10		Black Spruce		Low	5 - 10 feet	Sapling
Northern White Cedar		35	Log/Pole	12	118	Sugar Maple		Low	10 - 20 feet	Sapling
Red Maple		18	Log	14		Balsam Fir		Medium	Variable	Sapling
Quaking Aspen		7	Log	15		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Paper Birch		25	Log/Pole	14		Red Maple		Low	10 - 20 feet	Sapling
Sugar Maple		3	Log/Pole	10						
White Pine		3	Log	15						
<b>65</b>	42290 - Natural Mixed Pine	Sawtimber Well	14.4	112	111-140	N/A	Mature, good quality mixed pine stand. Better stocking in the west and central portions. East portion near property corner is a nice grove of Hemlock. Diameters on the Pines are reaching the top end for merchantability. Very unique stand in terms of size and structural diversity. Not much desirable sub-canopy.			
<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		3	Log	14		White Pine		Low	< 5 feet	Seeding
Basswood		3	Log	11		Beech		Medium	Variable	Sapling
Red Oak		10	Log	15		Hemlock		Low	>20 feet	Pole
Red Maple		3	Log/Pole	10		Red Maple		Low	5 - 10 feet	Sapling
White Pine		53	XLog/Log	19	112					
Red Pine		18	XLog/Log	18						
Bigtooth Aspen		10	Log/Pole	14						
<b>66</b>	42200 - Natural White Pine	Sawtimber Medium	11.5	112	111-140	N/A	Unsure on history of stand. The west portion along the two track was apart of a thinning treatment in 2005 but the rest of the stand was excluded. Stand is pretty much in a large kettle hole with it being an east facing aspect . Lots of wind/ice damage (2012-2013 storm) to pine tops resulting in a mess of downed woody debris. Pretty scrubby, diverse hardwood sub-canopy.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		4	Log/Pole	13		Paper Birch		Low	10 - 20 feet	Sapling
Red Oak		10	Log	12		Sugar Maple		Low	Variable	Sapling
Red Pine		3	Log	16		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub
Paper Birch		3	Log/Pole	10		Ironwood		Low	5 - 10 feet	Sapling
White Pine		80	XLog/Log/Pole	18	112	Red Maple		Low	10 - 20 feet	Sapling
						Red Oak		Low	10 - 20 feet	Sapling
						White Ash		Low	Variable	Sapling
						Beech		Low	5 - 10 feet	Sapling
						Black Cherry		Low	5 - 10 feet	Sapling
						White Pine		Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>67</b>	4119 - Mixed Northern Hardwoods	Sapling Well	32.1	5	Immature	N/A	Final harvested in 2018 under contract 72-049-15 Velda Trail Oak. Significantly better regeneration than the unit to the north. More consistent stocking. Some scattered advanced white pine regen that was left. Heavier raspberry in the far east. Rolling terrain. Stand will definitely stay mixed hardwood; whether or not there is a larger density of oak and sugar maple will be the question. Next entry should have a better idea of what species are recruiting better than others. Large buffer against private property to the east (roughly 1 chain wide).	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		3	Sapling	1		Blackberry/Raspberry		
Jack Pine		3	Sapling	1		Medium		
Beech		10	Sapling	1		< 5 feet		
Sugar Maple		10	Sapling	1		Tall Shrub		
Bigtooth Aspen		2	Sapling	1				
Red Oak		10	Sapling	1				
Red Pine		3	Sapling	1				
Red Maple		55	Sapling	1	5			
Ironwood		4	Sapling	1				
<b>68</b>	320 - Upland Shrub	Nonstocked	37.8	0	Unspecified	4211 - Planted Red Pine	Stand was final harvested in 2019 (#050-15). FRD chopped June 2021 (C72-867) except for steep slopes in the SE. Contract trenched May 2022. Site prep sprayed Aug 2023.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Bigtooth Aspen		Low	5 - 10 feet	Sapling				
Beech		Medium	< 5 feet	Sapling				
Red Maple		Low	< 5 feet	Sapling				
Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub				
<b>69</b>	4310 - Pine, Oak Mix	Sawtimber Well	22.6	115	141-170	N/A	Nice mixed stand, variable aspects and slopes throughout. Roughly a 50/50 mix of Pine and Aspen/Oak. Higher stocking of Pine along the west edge and in the south/southwest. Majority of the north, and the east/southeast portions contain Aspen, and Oak. Good establishment of White Pine saplings in the sub-canopy throughout. Stand was originally supposed to get cut under contract 72-051-15 but was turned back in. Possible trespass along south and east line. Some super canopy white pine beginning to die out.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		3	Log/Pole	10		Red Oak		
Bigtooth Aspen		16	Log/Pole	12		White Pine		
White Pine		18	XLog/Log	21		Balsam Fir		
Red Pine		38	Log/XLog/Pole	17	115	Sugar Maple		
Red Oak		22	Log/Pole	15		Red Maple		
Red Maple		3	Log/Pole	10		Beech		
						Low		
						Variable		
						Sapling		
<b>70</b>	4123 - Red Oak	Sawtimber Poor	7.1	97	51-80	N/A	Split out from stand 71. This portion of the 1987 harvest was to leave all Oak and a few Red/White Pine. The canopy is impeding on a well established sub-canopy of mixed pine. Almost has an appearance of a strip cut with the old skid trails containing the mix of sub-canopy species.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Pole	9		Red Maple		
Red Pine		3	Sapling/Pole	3		Bigtooth Aspen		
Red Oak		87	Log	16	97	Red Pine		
White Pine		5	Log/Pole	13		White Pine		
						High		
						10 - 20 feet		
						Sapling		
						Low		
						Variable		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>71</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	27.2	36	51-80	N/A	Cut in 1987. Rolling terrain with valleys and ridgetops. Mixed pine pockets throughout. Oak seems to be keeping up with the aspen and red maple in the canopy. Some areas of larger pole/small log aspen and oak. Transitions in and out of Aspen, mixed deciduous and Oak. Not as much red maple as expected.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		3	Log/Pole	11		Balsam Fir		Low	5 - 10 feet	Sapling	
Beech		5	Pole	7		Beech		Low	5 - 10 feet	Sapling	
White Pine		12	Pole/Log	8		White Pine		Medium	Variable	Sapling	
Quaking Aspen		5	Pole	6		Red Maple		Medium	10 - 20 feet	Sapling	
Red Maple		15	Pole	6		Hemlock		Trace	>20 feet	Pole	
Bigtooth Aspen		40	Pole	6	36	Red Pine		Low	5 - 10 feet	Sapling	
Balsam Fir		2	Pole	5							
Red Oak		18	Pole	6							

<b>72</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	32.1	36	81-110	N/A	Harvested in 1987 removing all stems 4" and up except Oak and Pine. Aspen/Mixed hardwood. Somewhat transitions from Aspen to Oak to beech/maple to pine. More consistent aspen in the North central, west and southeast portions. Oak is scattered but seems to have better densities around the pine inclusions. Rolling topo with better qualities in the north and west. Sugar maple appears to have regenerated after the harvest but is slightly behind the aspen in terms of canopy position (intermediate class).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		9	Pole/Sapling	6		Sugar Maple		Low	10 - 20 feet	Sapling	
Paper Birch		3	Pole	5		Black Cherry		Low	5 - 10 feet	Sapling	
White Pine		8	Log/Pole	10		White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		53	Pole	7	36	Red Maple		Medium	10 - 20 feet	Sapling	
Red Oak		10	Pole	7		Beech		Medium	10 - 20 feet	Sapling	
Beech		8	Pole	6		Red Pine		Low	5 - 10 feet	Sapling	
Red Pine		1	Log/Pole	13							
Sugar Maple		8	Pole	7							

<b>73</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	40.1	93	111-140	N/A	Fairly consistent, good to excellent quality hardwood stand. The dynamic of the stand is large diameter, large crowned Oaks with sugar maple poles/small logs. Overall the stand contains a clean sub-canopy with a valley that bisects the stand running SW/NE that contains mostly white pine. Sugar maple diameters increase moving to the east with the largest diameters (15-16 inches) in a small basin in the far east. Very large Oak. Beech scale is present in the stand. Possible Oak wilt site in the north. Less Oak, more maple in the East/SE portion of the stand. A few scattered overmature Bigtooth aspen were noted in the SW.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		1	Pole	9		Ironwood		Low	5 - 10 feet	Sapling	
Red Oak		27	XLog/Log	19		White Pine		Low	10 - 20 feet	Sapling	
Red Pine		1	XLog	22		White Ash		Low	Variable	Sapling	
Basswood		8	Log	15		Sugar Maple		Low	< 5 feet	Seeding	
Paper Birch		2	Log	13		Beech		Low	5 - 10 feet	Sapling	
Sugar Maple		50	Log/Pole	10	93	White Pine		Low	< 5 feet	Seeding	
Beech		9	Log/Pole	11							
White Pine		2	XLog/Log	22							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>74</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	7.1	36	51-80	N/A	Stand appears to have been cut in 1987 with stand 72. Mostly large saps/small poles. Some scattered logs in the Oak, sugar maple, and pine but not significant enough. Brushy sub-canopy in areas. Small inclusion of 6-8" aspen in the north end. Good Oak and sugar maple establishment.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	10	Sapling	4		Beech	Medium		5 - 10 feet	Sapling
Sugar Maple	25	Pole/Sapling	5	36	Sugar Maple	Low		Variable	Sapling
Red Oak	20	Pole/Sapling	6		White Pine	Low		5 - 10 feet	Sapling
Red Maple	3	Sapling/Pole	4		Ironwood	Low		Variable	Sapling
Red Pine	4	Pole	9		Black Cherry	Low		Variable	Sapling
Beech	10	Pole/Sapling	5		Red Pine	Low		< 5 feet	Seeding
Bigtooth Aspen	10	Pole	7						
White Pine	5	Pole/Sapling	6						
Ironwood	10	Sapling/Pole	4						
Paper Birch	3	Sapling	3						

<b>75</b>	4123 - Red Oak	Sawtimber Poor	11.9	97	81-110	N/A	Fairly similar to stand 70 to the southwest. Cut in 1987 removing everything but the Oak and Pine. Small hemlock inclusion in the sw corner. Pretty rough looking stand, especially in the sub-canopy. The White pine in the understory varies from <5 to 20+ ft saplings. Further east is more scrubby beech and red maple regen. Some very large diameter Oak observed (30").		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	3	Pole	7		Sugar Maple	Low		10 - 20 feet	Sapling
Hemlock	1	Log/Pole	10		Beech	Medium		5 - 10 feet	Sapling
Red Oak	75	Log/XLog	17	97	Red Maple	Medium		10 - 20 feet	Sapling
Beech	3	Pole	6		Red Oak	Low		>20 feet	Pole
White Pine	5	Log/Pole/XLog	15		White Pine	Medium		Variable	Sapling
Sugar Maple	3	Pole	8		Ironwood	Low		5 - 10 feet	Sapling
Red Pine	10	Log/XLog	15						

<b>76</b>	4131 - Aspen, Oak	Poletimber Well	41.2	37	81-110	N/A	Harvested in 1985 removing all stems 4 inch DBH and up. Parent stand appears to have been O6, A5, R7 based on sale records. Fairly well established hardwood throughout the aspen. Fair amount of intermediate White Pine recruiting into some canopy space. Oak are majority stump sprout origin that are keeping up with the aspen. Rolling topo. Appears to have left scattered mixed Pine from the 1985 harvest. Aspen pole std mixed with other deciduous species and pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole	6		Red Pine	Low		5 - 10 feet	Sapling
Beech	2	Pole	6		Black Cherry	Low		Variable	Sapling
Paper Birch	3	Pole/Sapling	6		Red Oak	Low		5 - 10 feet	Sapling
White Pine	10	Pole/Sapling	6		White Pine	High		Variable	Sapling
Bigtooth Aspen	50	Pole	7	37	Beech	Medium		5 - 10 feet	Sapling
Black Cherry	2	Pole	7		Red Maple	Low		Variable	Sapling
Sugar Maple	2	Log	10						
Red Oak	20	Pole/Log	8						
Red Pine	1	Pole	9						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
77	4111 - S.Maple, Hard Mast Association	Sawtimber Well	24.0	103	81-110	N/A	Stand was thinned in 2008 under contract Hilltop Hardwoods 72-026-05. Diameters are extremely variable in the sugar maple. The west and south eastern portions contain mostly pole SM with large crowned Oaks, where the central/NE portions are mostly Log/Xlog sugar maple and basswood. The basswood appear to be healthy but are pushing their limits especially with some measuring over 20" DBH. Under the sugar maple/basswood areas is a dense sub-canopy of ironwood, beech and ash. Fair White pine establishment under the portions with the large crowned Oaks.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		15	Log	15		White Pine		Medium	< 5 feet	Seeding	
Sugar Maple		50	Log/Pole/XLog	13	103	Sugar Maple		Low	Variable	Sapling	
Beech		10	Log/Pole	10		White Ash		High	10 - 20 feet	Sapling	
Red Oak		25	Log/XLog	17		Beech		High	5 - 10 feet	Sapling	
						Ironwood		High	5 - 10 feet	Sapling	
78	4111 - S.Maple, Hard Mast Association	Sawtimber Well	11.0	114	141-170	N/A	Very nice, good quality hardwoods. North facing aspect with steep terrain in the east third of stand. Hemlock/Birch inclusion along the bottom of the slope. Stand has never been treated due to slopes so stocking is high along with larger diameters resulting in not much of a sub-canopy development except for beech brush in the west portion. Most intermediate sugar maple poles/saps are flat topped; not really anywhere in the canopy to go. Very large crowned Oaks are taking up a lot of canopy space.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		3	Log/Pole	12		Ironwood		Low	5 - 10 feet	Sapling	
Paper Birch		5	Pole/Log	9		Hemlock		Low	10 - 20 feet	Sapling	
Beech		5	Log/Pole	12		White Ash		Medium	Variable	Sapling	
Sugar Maple		50	Log	13	114	Beech		Low	5 - 10 feet	Sapling	
Basswood		10	Log	15		Sugar Maple		Low	10 - 20 feet	Sapling	
Red Oak		22	Log/XLog	16							
Red Maple		5	Log	14							
79	4131 - Aspen, Oak	Sawtimber Well	9.6	62	111-140	N/A	Difficult getting an accurate age on this stand. No cutting records so went by cores. Overall a south facing aspen that contains overmature aspen and large diameter/crowned Oak. Scattered hardwood component throughout. North portion of stand is a ridge, then slopes down into a valley to the south.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		40	Log/XLog/Pole	17	83	White Ash		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		42	Log	12	62	Sugar Maple		Low	Variable	Sapling	
White Pine		2	Pole	6		White Pine		Low	Variable	Sapling	
Sugar Maple		12	Log/Pole	11		Ironwood		Low	5 - 10 feet	Sapling	
Paper Birch		2	Pole	8		Beech		Medium	5 - 10 feet	Sapling	
Beech		2	Log/Pole	11							
80	3105 - Mixed Upland Herbaceous	Nonstocked	2.4		Unspecified	No	Powerline ROW. Does contain a built up apron for allowing access into stand 77.				
81	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	18.8	108	141-170	N/A	Multi-polygon stand that is Long Term Retention for stand 68. Due to the size, it meets mapping standards so it is mapped as it's own stand. Portions of this stand were treated in the early 2000's apart of a logging expo highlighting logging techniques. The far east polygon contains heavy deciduous sub-canopy with a good density of White Pine poles. The main portion of the stand surrounding stand 63 is mostly Red Pine with intermixed pockets of Oak/Beech/Maple saplings under broken areas of canopy. Legacy Pines are present throughout. Large canopy Red Oaks are scattered throughout the stand as well. Some areas of overmature aspen present. Rolling topography.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		14	Log/Pole	12		White Pine		Low	Variable	Sapling	
Red Pine		55	Log/XLog/Pole	15	108	Red Oak		Low	10 - 20 feet	Sapling	
Paper Birch		3	Pole	9		Beech		Medium	5 - 10 feet	Sapling	
Red Maple		3	Pole/Log	8		Red Maple		Medium	5 - 10 feet	Sapling	
Bigtooth Aspen		3	Log/Pole	10							
Beech		3	Pole/Log	9							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>82</b>	4123 - Red Oak	Sawtimber Well	2.2	109	81-110	N/A	Parent stand to stand 67. Stand was thinned 20-30 years ago removing everything but Oak, Sugar Maple and Pine. Thick subcanopy development of mixed hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole/Log	9		Sugar Maple	Low	10 - 20 feet	Sapling
Beech	5	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	4	Log/Pole	13		Beech	Medium	5 - 10 feet	Sapling
Sugar Maple	10	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Oak	76	Log	14	109				

<b>83</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	7.9	67	81-110	N/A	Harvested in 1988 removing everything but Oak and Pine. Stand was broken out of the adjacent stand 62 due to a large difference in species composition, stocking and future management direction. Compared to stand 62, this stand is dominated by pole/small log White Pine with a good component of Oak, paper birch and a small clone of aspen. There is a small opening in the center of the stand that contains some large open grown White Pine and Oak. There is a small campsite here. Good picture of stand would be scattered White Pine groves, intermixed Large crowned Red Oaks, with pockets of pole mixed deciduous species most likely regen from the 1988 harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Pole/Log	9		Beech	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole	7		Jack Pine	Low	10 - 20 feet	Sapling
Red Maple	7	Pole	5		White Pine	Medium	Variable	Sapling
White Pine	50	Log/Pole	10	67	Red Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	8	Pole	6	35	Red Maple	Low	10 - 20 feet	Sapling
Red Oak	15	Pole/Log/XLog	9		Red Pine	Low	5 - 10 feet	Sapling

<b>84</b>	42200 - Natural White Pine	Poletimber Well	5.5	62	81-110	N/A	Unsure on history of stand. Appears to be a natural grove of White Pine. Was most likely excluded from the adjacent harvest in 1987. Mixed pockets of sugar maple and oak scattered throughout. Sits up slightly on a ridge and an east facing slope. Broken out of stand 72.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole	8		White Pine	Low	< 5 feet	Seeding
Red Pine	5	Log/Pole	13		Beech	Low	5 - 10 feet	Sapling
White Pine	70	Pole/Log	9	62	Black Cherry	Low	5 - 10 feet	Sapling
Red Oak	15	Pole/Log	8		Red Oak	Low	10 - 20 feet	Sapling
Beech	5	Pole	7					

<b>85</b>	4130 - Aspen	Poletimber Well	13.3	46	81-110	N/A	Stand was originally merged with stand 45 to the south. Western half contains a nice balsam fir component under the aspen. Scattered Red Pine and Oak Logs. The jack pine in the canopy is falling out.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole	7		Balsam Fir	High	Variable	Sapling
Red Maple	15	Pole/Log	8		White Pine	Low	Variable	Sapling
Balsam Fir	1	Pole	6		Red Maple	Medium	Variable	Sapling
Red Oak	5	Log	17		Beech	Low	Variable	Sapling
Paper Birch	3	Pole/Sapling	6		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	20	Pole	7	46	Red Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	40	Pole	7	46				
Red Pine	3	Log/Pole/XLog	14					
White Pine	8	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**86**      4310 - Pine, Oak Mix      Sawtimber Well      8.1      114      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole/XLog	16	
Red Pine	42	Log/Pole/XLog	16	114
Paper Birch	4	Pole/Log	9	
Red Maple	10	Log/Pole	14	
Red Oak	28	Log/XLog	16	
Sugar Maple	2	Log/Pole	10	
Bigtooth Aspen	9	Log/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Sapling
Red Oak	Low	5 - 10 feet	Sapling
Red Pine	Low	Variable	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Red Maple	Low	10 - 20 feet	Sapling

Stand composition is essentially split by the two-track. The east side of the stand is a east/southeast facing aspect with heavy lowland deciduous and coniferous influence especially closer to stand 64. Heavier to red maple, birch, balsam fir, white pine and black spruce. The southeast portion is a gradual slope that contains a nice grove of natural pine a well as a small inclusion of hard maple and Oak. The west portion of the stand contains the majority of the white pine with mostly larger crowned Oak and more upland deciduous component such has beech, red maple, aspen and oak. More scrubby, brushy beech/aspen understory in the west/nw portions. Legacy pines present.