



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54082

Entry Year 2024

Acreage: 1,775

County Alpena

Management Area: Alpena Lake Plain

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**Stand Examiner:** Dale Parris

## Legal Description:

T29N R06E Sections 22, 23, 25, 26, 27, and 36

## Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The most prevalent covertypes in the ALPMA for the 2024 Year of Entry (YOE) are the lowland deciduous, lowland aspen, aspen, oak, mixed upland deciduous, and lowland conifer covertypes. As such, for the purpose of balancing the age class acre distributions of these covertypes across the Management Area (MA), forest management during the 2024 YOE in the ALPMA will focus on these covertypes. Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

## Soil and topography:

The upland areas of Compartment 82 are composed mainly of Morganlake loamy sand (moderately well drained), Klacking loamy sand (well drained), Grayclam sand (somewhat excessively drained). The upland areas are mostly in the form of moderately rolling hills with steeper slopes minimally present.

The lowland areas, mainly in the western half of the compartment, are dominated by the very poorly drained Tawas and Deford mucks. The lowland areas are primarily flat.

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

Compartment 82 is surrounded by state land to the north and large parcel forested recreation properties with hunting camps to the west and south. Farmland composes a large portion of the land to the east as well as some individual year-round residences.

## Unique Natural Features:

Compartment 82 is dominated by rolling hills of oak dominated forest. At the time of this inventory the oak ranged from 97 to 112 years of age. Vast lowland cedar stands ranging in age from 93 to 129 years are present to the west.

## Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) did not have any known areas of concern within Compartment 82.

## Special Management Designations or Considerations:

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website had record of 1 species historically being in or near Compartment 82 that requires consideration when implementing forest management strategies. This species is the eastern massasauga rattlesnake (*Sistrurus catenatus*; state special concerns species).

## Watershed and Fisheries Considerations:

No special considerations exist, apart from that the streams in this compartment flow into Widner Creek, a cold water stream.

## Wildlife Habitat Considerations:

Compartment 82 consists of oak, aspen, red pine, and openings in the uplands with cedar, balsam poplar, and swamp conifers in the lowlands. Openings are being lost to natural succession. A diverse array of wildlife species inhabits this compartment. Featured species present include black bear, white-tailed deer, wild turkey, ruffed grouse, and American woodcock. The compartment also provides habitat potential for reptiles and amphibians including eastern massasauga rattlesnake, red-shouldered hawk, and bald eagle.

## Mineral Resource and Development Concerns and/or Restrictions

Sections 22-27 & 36, T29N-R6E, Alpena County

The nearest active sand/gravel pit is more than five miles to the southeast. There appears to be some good sand & gravel potential in the compartment, but any surface mining would need to avoid oil & gas infrastructure. This area has been developed for and is producing gas from the Antrim Shale. Nearly all State-owned oil & gas rights are currently leased and held by production. Spacing requirements could limit potential of additional wells beneath the compartment. Additionally,

due to the persistent low price of natural gas, there is unlikely to be any additional Antrim development in the area in the near future, and there is no known potential for hydrocarbon production from other proven formations. There is no known metallic mineral potential in this part of the state.

#### **Vehicle Access:**

The main block of Compartment 82 is accessible from Nicholson Hill Road from the north and from Kissau Road from the east, south, and west. A system of forest roads give access to portions of the main block of Compartment 82 from all sides. The southeast block of Compartment 82 is accessible from Kissau road and then the interior is further accessible by a system of forest roads.

#### **Survey Needs:**

For the purpose of conducting timber sales and maintaining legal private/state land boundary posting locations, there may be a need for property line surveys within Compartment 82. Further investigation will be needed to determine the extent to which these surveys are required.

#### **Recreational Facilities and Opportunities:**

Rabbit/hare, grouse, whitetail deer, squirrel, turkey, and bear hunting opportunities are available within Compartment 82 in season with a valid license. Wildlife viewing opportunities are also present. All regulations set forth by the Michigan Department of Natural Resources are to be adhered to by hunters.

The Chippewa Hills Pathway has a north trail head and a south trial head within the east edge of Compartment 82 off of Kissau Road. The entirety of Chippewa Hills Pathway is within Compartment 82. This trail system is used year-round for hiking and biking in the warm months and for cross country skiing in the winter.

#### **Fire Protection:**

In the case of wildland fire, Compartment 82 is within the response area of the Alpena DNR Fire Taskforce/Atlanta Forest Management Unit. The Hubbard Lake and Green Township Fire Departments also respond to wildfires in this area. The Alpena DNR Fire Task Force is within 20 miles of the compartment and typically would be able to be on scene within 20 to 30 minutes after being dispatched. The Hubbard Lake and Green Township Fire Departments are within close range of Compartment 81, typically making their response times quicker than that of the Alpena DNR Task Force.

#### **Additional Compartment Information:**

Oak wilt is prevalent within the state and private forests in the area of Compartment 82. Trenching and tree patch removal has taken place in numerous locations within Compartment 82, since 2019, to slow the spread of oak wilt in the area.

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

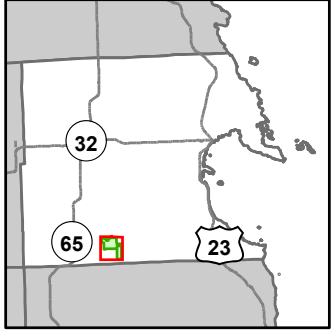
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

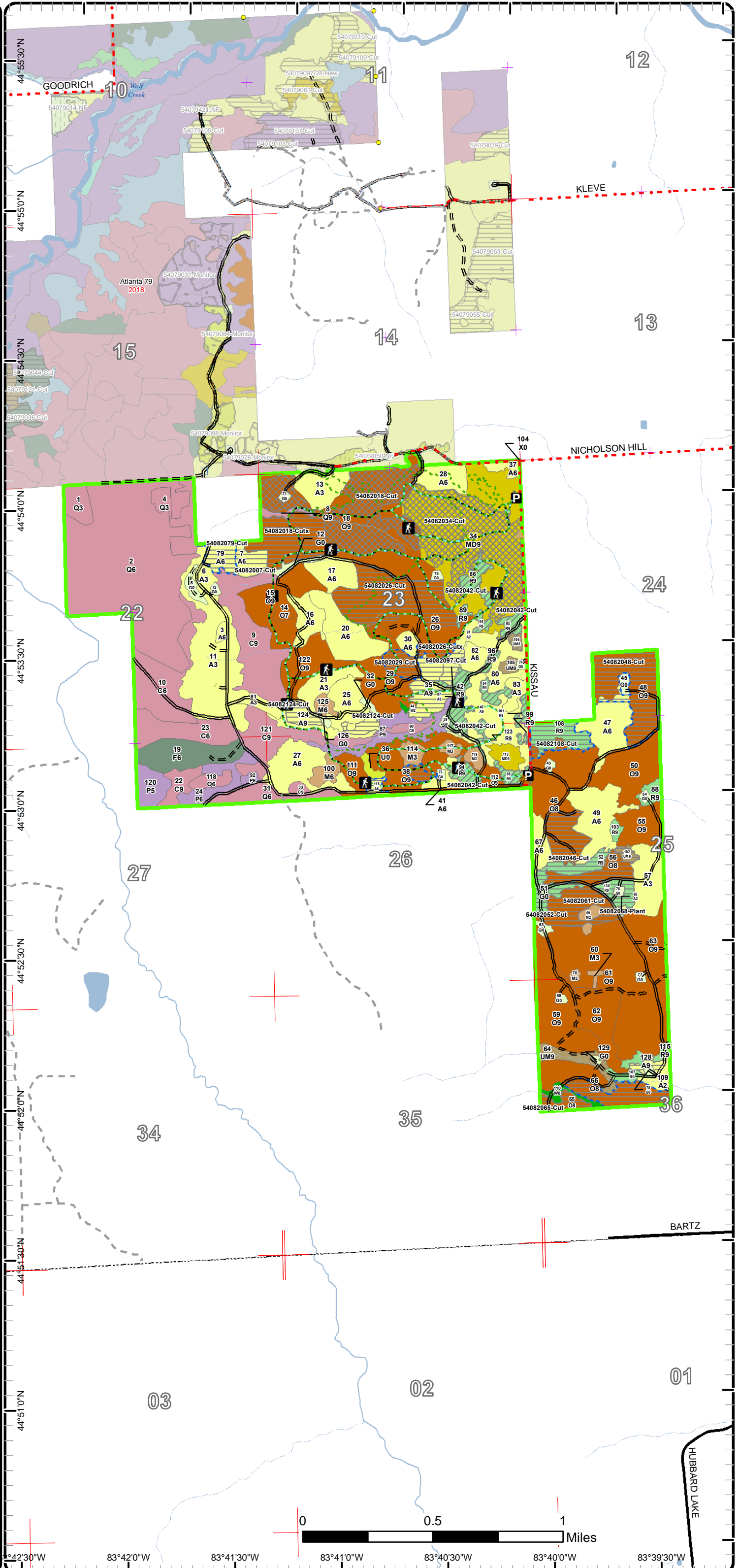
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 82  
 T29N, R06E, Sec. 22-27, 36  
 County: Alpena  
 Unit: Atlanta  
 Mgmt Area: Alpena Lake Plain  
 YOY: 2024  
 Acres: 1775.2 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review

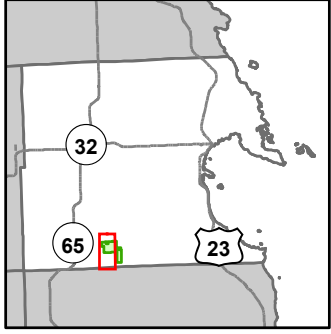


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Designated Hiking Trails
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Culvert
- Parking Lot
- ★ Trailhead
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees

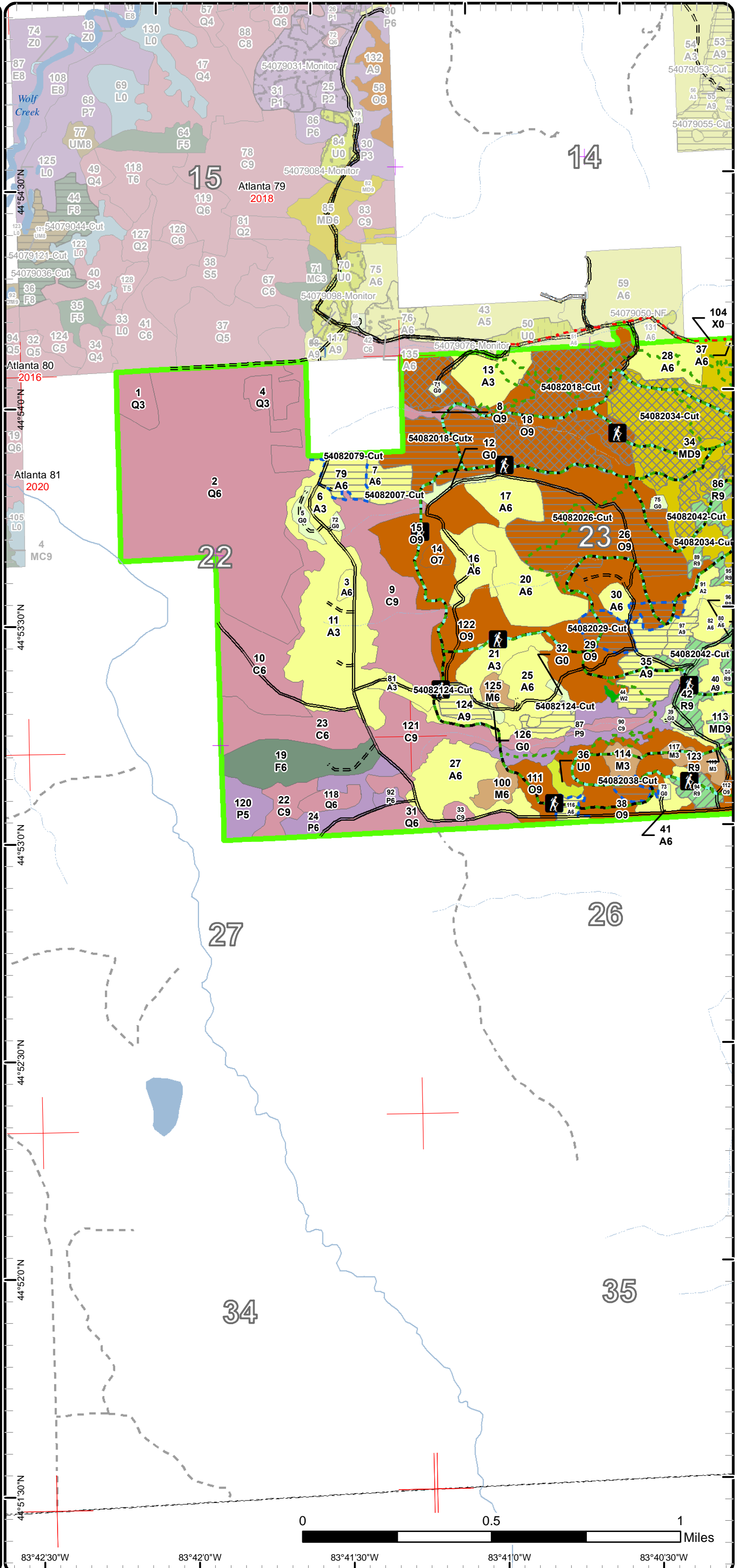


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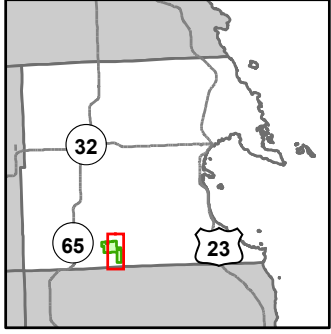


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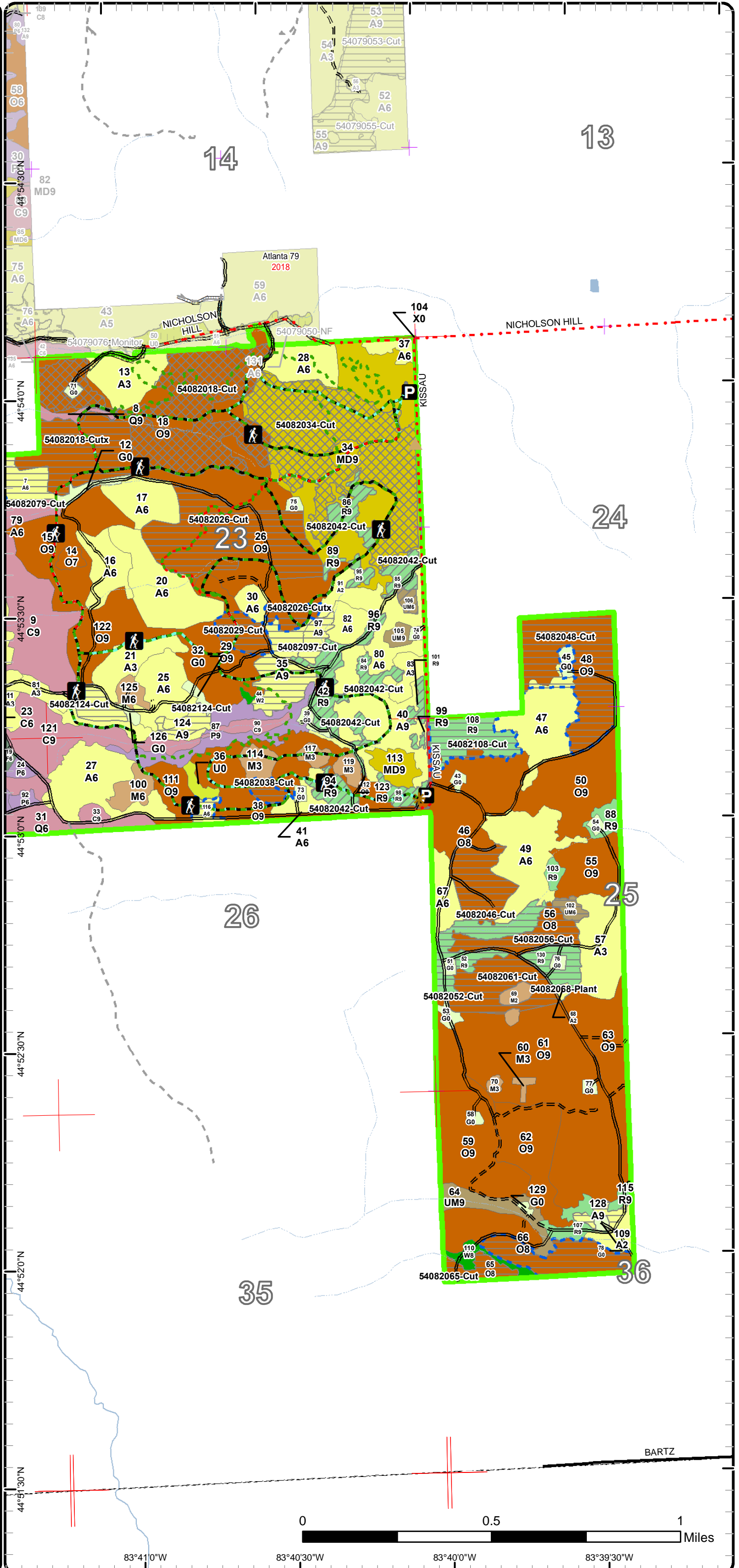


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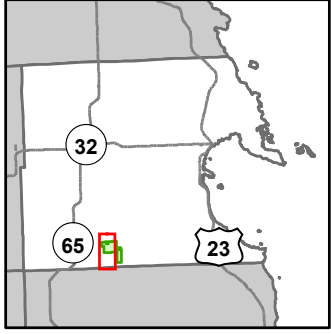


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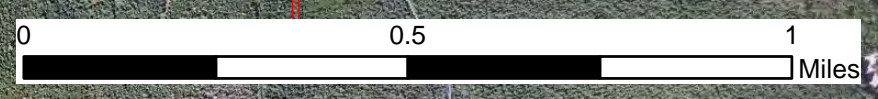
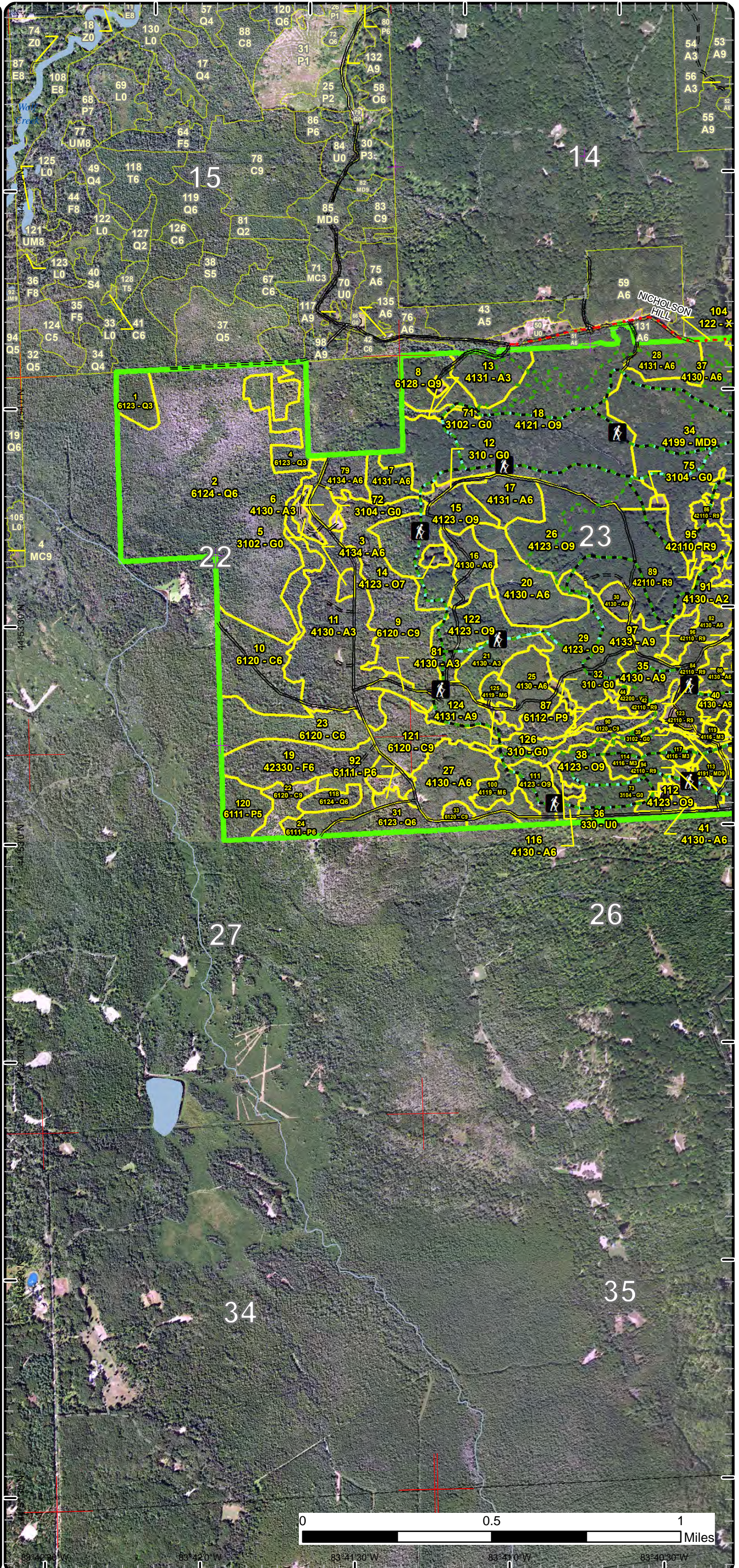


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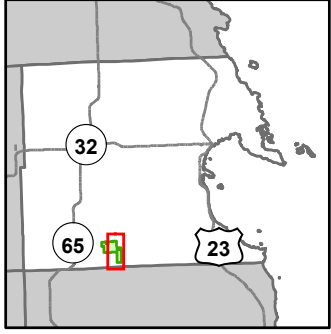
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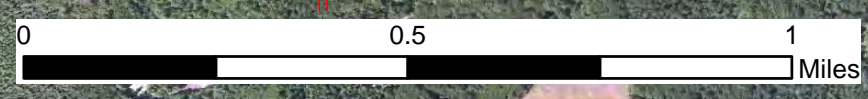
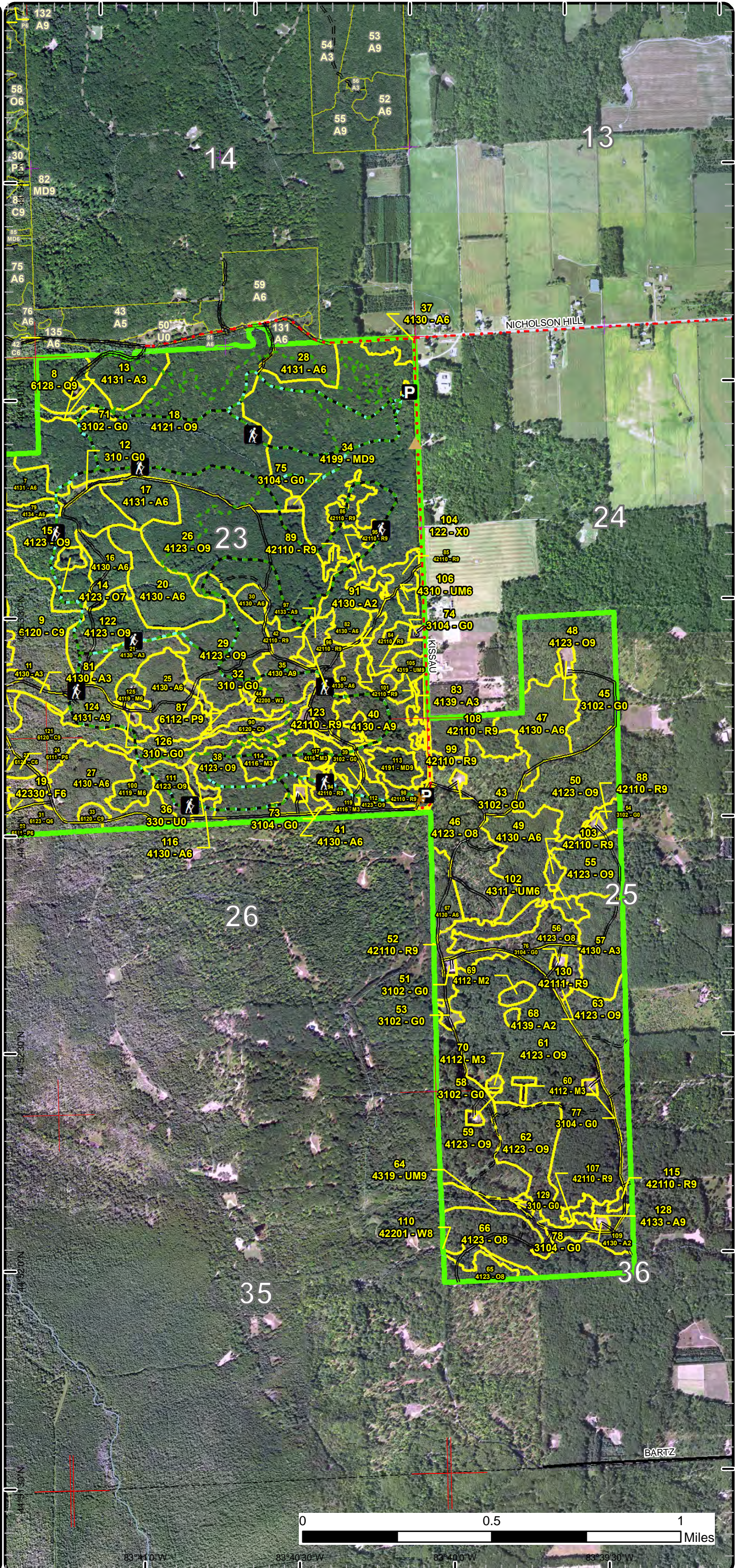
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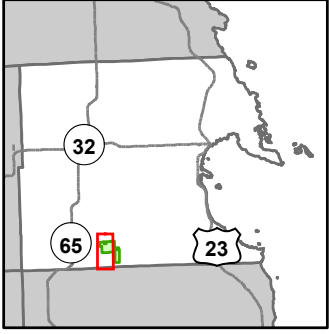
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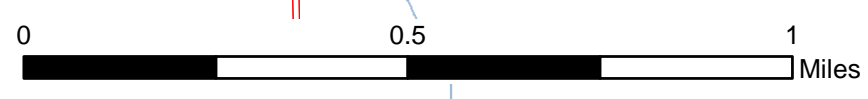
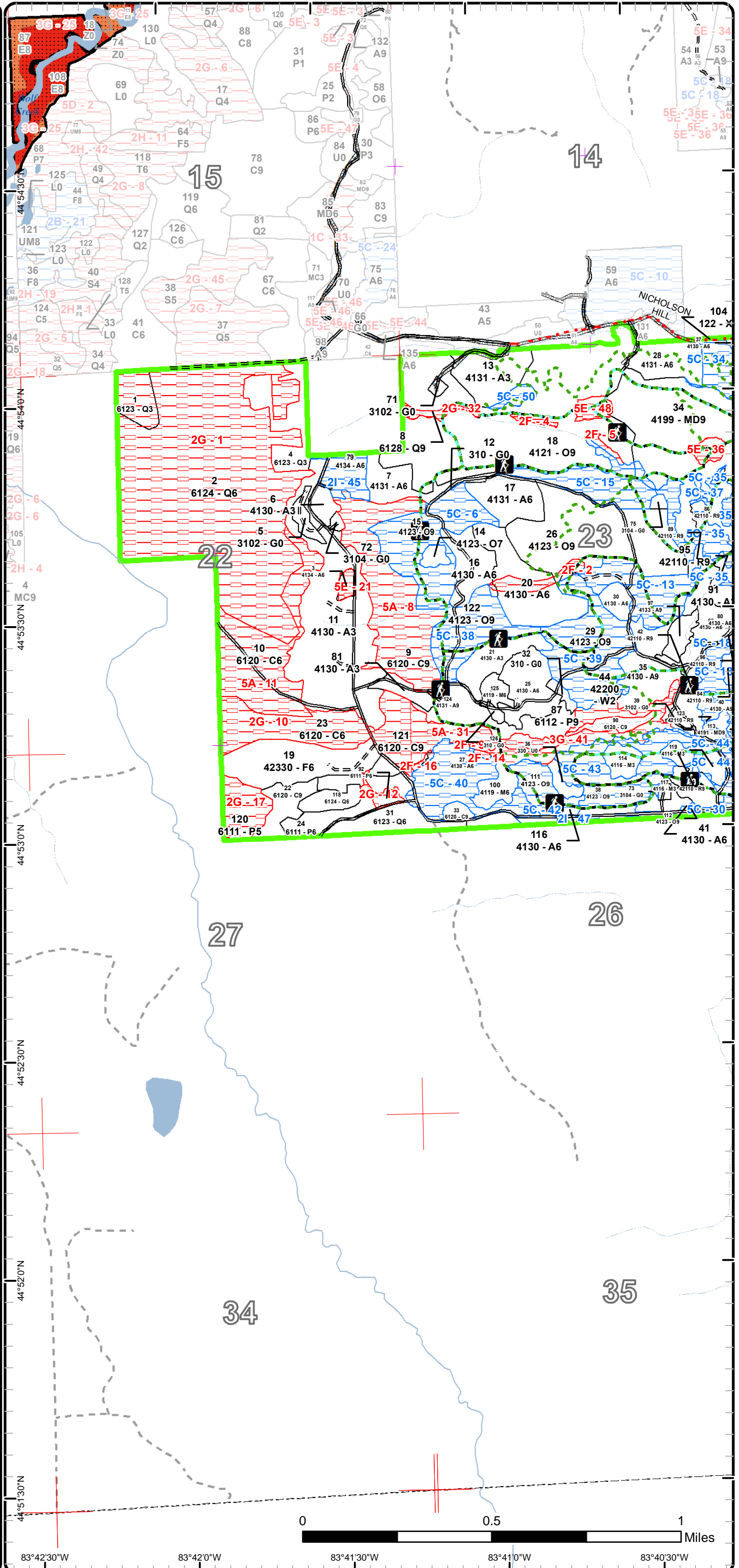
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# Special Conservation Areas

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- 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)
- 3G: Other Influence zones - See comments
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Other Habitat Area

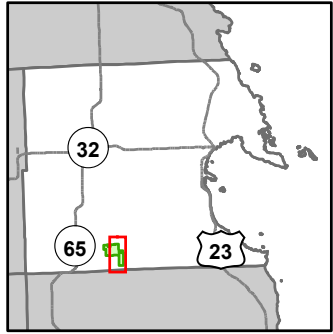


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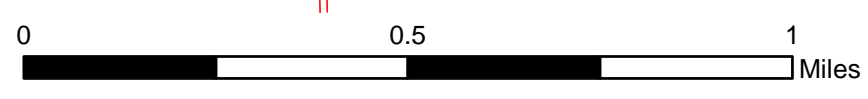
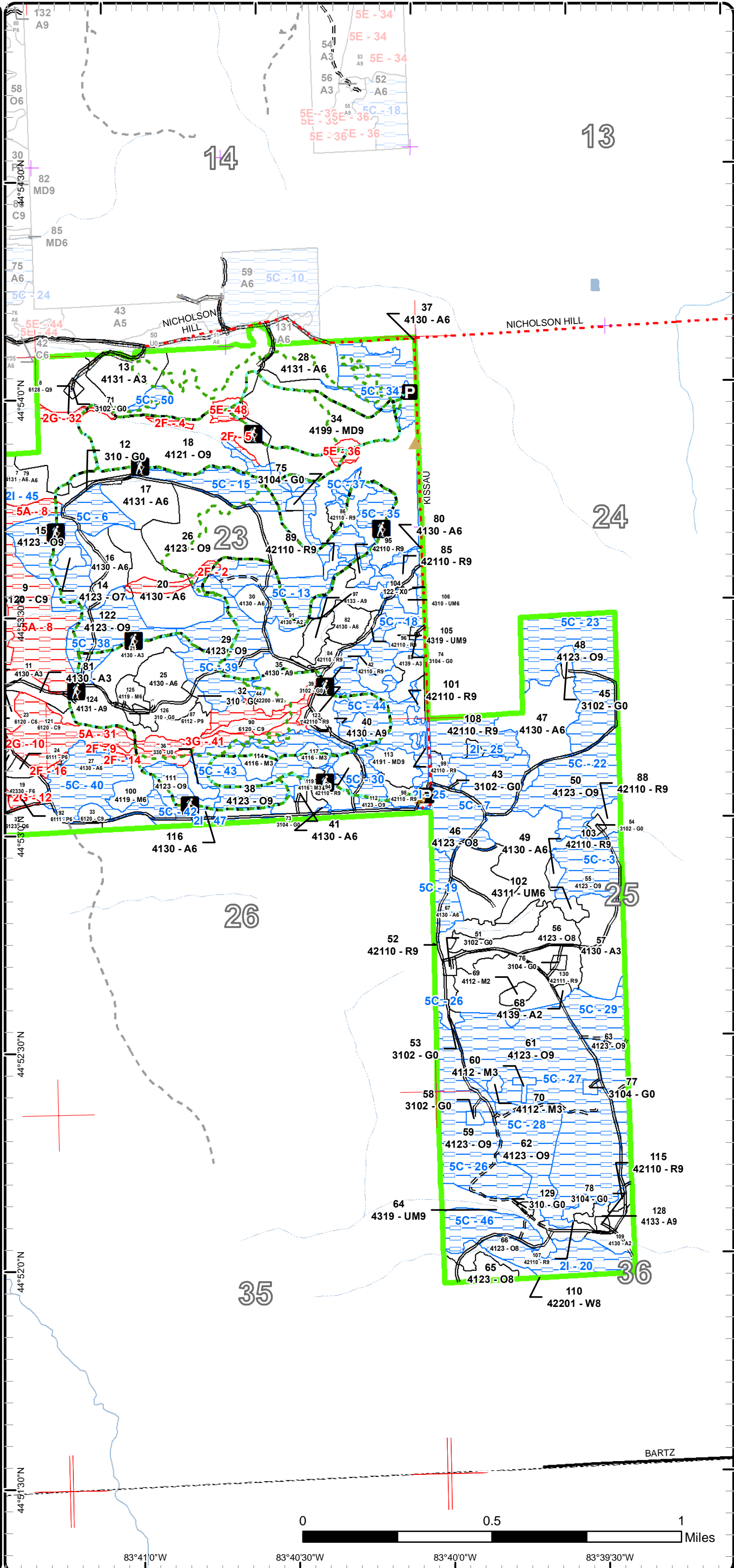


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- Cold Water Streams



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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	86	5	39	133	29	72	16	0	0	0	0	0	0	0	0	0	16	396
Cedar	0	0	0	0	0	0	0	0	0	0	23	0	13	104	0	0	0	0	140
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	0	25	0	0	16	0	0	0	0	0	0	0	0	0	41
Lowland Conifers	0	0	0	15	165	5	15	0	0	0	0	0	2	0	0	0	0	0	202
Mixed Upland Deciduous	0	0	0	0	0	0	0	6	0	0	0	118	0	0	0	0	0	0	124
Northern Hardwood	0	13	2	0	3	0	6	0	0	0	0	0	0	0	0	0	0	0	24
Oak	0	0	0	0	0	0	0	0	0	0	228	397	54	0	0	0	0	0	679
Red Pine	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	0	0	91
Upland Mixed Forest	0	0	0	0	0	0	0	4	10	2	0	0	0	0	0	0	0	0	16
Upland Spruce/Fir	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>34</b>	<b>99</b>	<b>8</b>	<b>54</b>	<b>325</b>	<b>59</b>	<b>93</b>	<b>117</b>	<b>26</b>	<b>6</b>	<b>251</b>	<b>515</b>	<b>69</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>1775</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 82

Year of Entry: 2024

Acres of Harvest

Total Compartment Acres: 1,775

Commercial Harvest - 379  
 Harvests with Site Condition - 100  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	53	0	0	0	0	0	0	0	0	53
Mixed Upland Deciduous	0	75	0	0	0	0	0	0	0	75
Oak	201	65	0	0	0	0	0	0	0	266
Red Pine	37	0	0	0	44	0	0	0	0	81
Upland Mixed Forest	2	0	0	0	2	0	0	0	0	4
<b>Total</b>	<b>294</b>	<b>140</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>479</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	479	0	1	0	0	0	0	0	0	480
Next Step	0	420	333	0	0	420	645	15	0	1833
<b>Total</b>	<b>479</b>	<b>420</b>	<b>334</b>	<b>0</b>	<b>0</b>	<b>420</b>	<b>645</b>	<b>15</b>	<b>0</b>	<b>2313</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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**Approved Treatments:**

7	54082007-Cut	8.1	4131 - Aspen, Oak	Poletimber Well	27	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut and plant to red pine.</p> <p><u>Specs:</u> Include specs to protect EMR and their habitat.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Unfurrowed</p> <p><u>Acceptable</u> Acceptable regeneration is a well stocked stand of red pine with minor components of other native species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention is not necessary due to the small size of the stand.</p> <p><u>Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9/30/2022</p>											

18	54082018-Cut	64.9	4121 - Oak, Aspen	Sawtimber Well	102	111- 140	Harvest	Group Selection	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen and mark areas with a higher density of oak down to a residual basal area of 80 sq. ft./acre.</p> <p><u>Specs:</u> Areas harvested that contain dense aspen stocking will create large canopy gaps; remove oak in these gaps to promote regeneration of both aspen and oak.</p> <p>Retain any under-represented species in the stand. Protect sub-canopy white pine, balsam fir, and red pine.</p> <p>Include specs to protect EMR and their habitat in the western end of the harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration is any medium to well stocked mix of aspen, oak, and/or red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.</p> <p><u>Comment:</u> These are the same prescription and comments that were agreed upon with the public and the TBTA during the 2014 YOE post review meetings.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	54082018-Cutx	28.3	4121 - Oak, Aspen	Sawtimber Well	102	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Plant to red pine. Include specs to protect recreation trails and their users. Include specs to protect EMR and their habitat.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant; <u>Treatments:</u> Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 9 /30/2022</p>											
26	54082026-Cut	46.7	4123 - Red Oak	Sawtimber Well	107	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Plant to red pine. Include specs to protect recreation trails and their users.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Site Prep; Planting, Initial Plant; <u>Treatments:</u> Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application. Treatment size may vary based on the oak wilt situation at the time of sale prep and/or harvest.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 9 /30/2022</p>											
26	54082026-Cutx	4.8	4123 - Red Oak	Sawtimber Well	107	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Include specs to protect recreation trails and their users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any low to medium stocked mix of red maple, aspen, and/or oak.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application. Treatment size may vary based on the oak wilt situation at the time of sale prep and/or harvest.</p> <p><u>Site Condition</u> Age-Class or Site Quality <u>Proposed Start Date:</u> 9 /30/2022</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
29	54082029-Cut	7.8	4123 - Red Oak	Sawtimber Well	106	141- 170	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Include specs to protect EMR and their habitat.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any low to medium stocked mix of red maple, aspen, and/or oak.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application. Treatment size may vary based on the oak wilt situation at the time of sale prep and/or harvest.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 9/30/2022</p>											
34	54082034-Cut	74.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	102	111- 140	Harvest	Group Selection	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen and mark areas with a higher density of oak down to a residual basal area of 80 sq. ft./acre.</p> <p><u>Specs:</u> Areas harvested that contain dense aspen stocking will create large canopy gaps; remove oak in these gaps to promote regeneration of both aspen and oak.  Retain any under-represented species in the stand. Protect sub-canopy white pine, balsam fir, and red pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, oak, and/or red maple.</p> <p><u>Other Comment:</u> The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.  These are the same prescription and comments that were agreed upon with the public and the TBTA during the 2014 YOE post review meetings.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9/30/2022</p>											
35	54082035-Cut	16.3	4130 - Aspen	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Retain all white oak, white pine, and red pine to promote wildlife mast and future stand diversity.  Include proper grouse spec.  Use specs to protect recreation trails and its users.  Include specs to protect EMR and their habitat.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any mix of aspen, red maple, oak, and/or white pine.</p> <p><u>Other Comment:</u> The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9/30/2022</p>											



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	<b>38 54082038-Cut</b>	3.3	4123 - Red Oak	Sawtimber Well	103	111- 140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Include specs to protect recreation trails and their users.  Include specs to protect EMR and their habitat.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any low to medium stocked mix of red maple, aspen, and/or oak.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application. Treatment size may vary based on the oak wilt situation at the time of sale prep and/or harvest.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 9 /30/2022</p>											
	<b>42 54082042-Cut</b>	43.5	42110 - Planted Red Pine	Sawtimber Well	63	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120 BA. Do not remove more than 1/3 of the BA in any area.</p> <p><u>Specs:</u> Do not harvest aspen where reasonable to prevent excessive suppressed aspen understory.  Include sale specs to protect recreation trails and their users.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> This is not a regeneration harvest.</p> <p><u>Other Comment:</u> The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
	<b>46 54082046-Cut</b>	16.0	4123 - Red Oak	Sawtimber Medium	105	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Plant to red pine.  Include specs to protect recreation trails and their users.  Implement edge pocket retention to facilitate planting.</p> <p><u>Next Step</u> SitePrep, Scarification; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application. Treatment size may vary based on the oak wilt situation at the time of sale prep and/or harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /30/2022</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
48	54082048-Cut	39.8	4123 - Red Oak	Sawtimber Well	112	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Plant to red pine. Implement edge pocket retention to facilitate planting. Include specs to protect recreation trails and their users.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant; <u>Treatments:</u> Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 9 /30/2022</p>											
52	54082052-Cut	14.7	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Plant to red pine. Include specs to protect recreation trails and their users. Implement edge pocket retention to facilitate planting.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application. Treatment size may vary based on the oak wilt situation at the time of sale prep and/or harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /30/2022</p>											
56	54082056-Cut	12.1	4123 - Red Oak	Sawtimber Medium	97	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Plant to red pine. Include specs to protect recreation trails and their users. Implement edge pocket retention to facilitate planting.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Treat oak wilt in the stand as directed by the forest health specialist. Methods may include trenching and herbicide application. Treatment size may vary based on the oak wilt situation at the time of sale prep and/or harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /30/2022</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>61</b>	<b>54082061-Cut</b>	18.7	4123 - Red Oak	Sawtimber Well	97	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Plant to red pine.

Place retention along the southern edge of the stand.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;  
Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 9 /30/2022

<b>65</b>	<b>54082065-Cut</b>	6.1	4123 - Red Oak	Sawtimber Medium	96	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-cut.

Specs:

Retention is not necessary due to the small size of the stand.

Protect white pine understory. Protect/retain all pine.

Require the producer to place slash high and wide centered over harvested oak stumps with the goal of making the slash impenetrable by deer.

Repeat 1-year post-harvest oak stump sprout regeneration checks to assess the effectiveness of slash against deer browse until oak recruitment is complete.

Post "No Firewood Collection" signs post-harvest for keeping slash in place over oak stumps.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any medium to well stocked mix of oak, white pine, aspen, and/or red maple.

Regen:

Other Producer should fell trees towards the next tree to cut to limit advanced regeneration damage. The forwarder should follow in the harvester's  
Comment: pathway; also to limit advanced regeneration damage.

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>66</b>	<b>54082066-Cut</b>	17.7	4123 - Red Oak	Sawtimber Medium	97	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u></p> <p>Protect white pine understory. Protect/retain all pine.</p> <p>Require the producer to place slash high and wide centered over harvested oak stumps with the goal of making the slash impenetrable by deer.</p> <p>Repeat 1-year post-harvest oak stump sprout regeneration checks to access the effectiveness of slash against deer browse until oak recruitment is complete.</p> <p>Post "No Firewood Collection" signs post-harvest for keeping slash in place over oak stumps.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of oak, white pine, aspen, and/or red maple.</p> <p><u>Other Comment:</u> Producer should fell trees towards the next tree to cut to limit advanced regeneration damage. The forwarder should follow in the harvester's pathway; also to limit advanced regeneration damage.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

<b>68</b>	<b>54082068-Plant</b>	0.9	4139 - Aspen, Mixed Deciduous	Sapling Medium	2	Immature	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Plant to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Plant with the adjacent stands to the north.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

<b>79</b>	<b>54082079-Cut</b>	8.5	4134 - Aspen, Spruce/Fir	Poetimber Well	46	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u></p> <p>Retention is not necessary due to the small size of the stand.</p> <p>Include standard EMR specs.</p> <p>Include proper grouse/hare spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, and/or red maple.</p> <p><u>Other Comment:</u> A forwarding path will need to be punched through Stand 6 south to the well pad which will be the landing.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 9 /30/2022</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>97 54082097-Cut</b>	4.4	4133 - Aspen, Mixed Pine	Sawtimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Retention is not necessary due to the small size of the stand.</p> <p>Retain all white oak, red pine, and white pine to promote wildlife mast and future stand diversity. Mark to cut retention species where needed for operability.</p> <p>Include proper grouse spec.</p> <p>Use specs to protect recreation trails and its users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, oak, and/or white pine.</p> <p><u>Other Comment:</u> The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.</p> <p><u>Site Condition</u> Proposed Start Date: 9 /30/2022</p>										
<b>102 54082102-Cut</b>	2.4	4311 - Pine, Aspen Mix	Poletimber Well	62	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Plant to red pine.</p> <p>Include specs to protect recreation trails and their users.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Release; Pesticide, Skidder - Site Prep; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 9 /30/2022</p>										
<b>106 54082106-Cut</b>	1.9	4310 - Pine, Oak Mix	Poletimber Well	63	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Two-Aged	No
<p><u>Prescription</u> Third row thin the red pine and thin the remaining red pine rows.</p> <p><u>Specs:</u> Harvest all aspen to release the suppressed red pine.</p> <p>Mark oak for harvest where the red pine will not be damaged when the oak is cut.</p> <p>Include sale specs to protect recreation trails and their users.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> This is not a regeneration harvest.</p> <p><u>Other Comment:</u> The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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108	54082108-Cut	15.4	42110 - Planted Red Pine	Sawtimber Well	62	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Plant to red pine.

Place retention along the far east edge of the stand.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);

Treatments: Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand; Pesticide, Skidder - Releas

Acceptable Regen: Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.

Other Comment:

Site Condition

Survey Needed

Proposed Start Date: 9 /30/2022

116	54082116-Cut	2.9	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clear-cut.

Specs:

Retention is not necessary due to the small size of the stand.

Include proper grouse spec.

Include sale specs to protect recreation trails and their users.

Include specs to protect EMR and their habitat.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of aspen, red maple, and/or oak.

Other Comment:

The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>124 54082124-Cut</b>	9.6	4131 - Aspen, Oak	Sawtimber Well	65	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>Leave retention to enhance the visual aesthetics for the multi-use trail users.</li> <li>Include proper grouse spec.</li> <li>Include specs to protect recreation trails and their users.</li> <li>Keep treatment 75 to 100 feet away from the cedar to the south to protect the lowland cedar from windthrow.</li> <li>Include specs to protect EMR and their habitat.</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, oak, paper birch, and/or balsam fir.</p> <p><u>Other Comment:</u> The Chippewa Hills Pathway is located throughout this stand and will be protected from any damage by logging equipment. Trail crossings may only occur at designated locations as defined by the sale administrator. Slash and tops must be kept a minimum of 30 ft. from the edge of the trail.</p> <p>Areas have been cut out of the treatment for the dual purpose of enhancing the visual aesthetics for the multi-use trail users and for maintaining a windthrow buffer along the cedar stand to the south.</p> <p>Keep harvest on one side of the recreation trail along the stand's west edge.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /30/2022</p>										
<b>128 54082128-Cut</b>	3.1	4133 - Aspen, Mixed Pine	Sawtimber Well	55	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>Include proper grouse spec.</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, and/or red/white pine.</p> <p><u>Other Comment:</u> Autumn olive taking over the stand in areas could potentially be a problem.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>130 54082130-Cut</b>	7.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	60	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>Plant to red pine.</li> <li>Include specs to protect recreation trails and their users.</li> </ul> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species.</p> <p><u>Other Comment:</u> Retention is not necessary due to the small size of the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /30/2022</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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Total Treatment Acreage Proposed: 479.8

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 82  
Year of Entry: 2024

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

	Total Acres	Acres Available	Acres <b>With Condition</b>	Acres Not Available	Dominant Site Condition	Dominant Site Conditions							
						2I	5C	2F	2G	3G	5A	5E	
395	309		<b>80</b>	6	Aspen	11	68	4					2
140	17		<b>0</b>	123	Cedar			0	23		100		
26	26		<b>0</b>	0	Herbaceous Openland								
2	2		<b>0</b>	0	Low-Density Trees								
41	12		<b>0</b>	29	Lowland Aspen/Balsam Poplar				13	16			
202	34		<b>0</b>	168	Lowland Conifers				168				
124	81		<b>39</b>	3	Mixed Upland Deciduous		39						3
24	24		<b>0</b>	0	Northern Hardwood								
679	201		<b>472</b>	7	Oak	20	452	4					3
91	77		<b>13</b>	0	Red Pine	13							
16	16		<b>0</b>	0	Upland Mixed Forest								
24	24		<b>0</b>	0	Upland Spruce/Fir								
6	6		<b>0</b>	0	Urban								
5	5		<b>0</b>	0	White Pine								
1,775	835		<b>605</b>	336	Total Forested Acres	45	559	8	204	16	100		8
	47%		<b>34%</b>	19%	Relative Percent								

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	165	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							
8	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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9	<b>Unavailable</b>	<b>2F: Too steep</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<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>							
14	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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Year of Entry: 2024

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							
20	Available	2I: Survey needed	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Further investigation of records/on the ground is needed to determine whether a survey is necessary.							

## Report 4 – Site Conditions

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21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							
23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							
25	<b>Available</b>	<b>2I: Survey needed</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Further investigation of records/on the ground is needed to determine whether a survey is necessary.							
26	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							
27	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	77	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							

## Report 4 – Site Conditions

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28	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							
29	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> In addition, it is unlikely that desirable regeneration would be obtainable.							
30	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<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>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

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35	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	<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>							
39	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
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Compartment: 82  
Year of Entry: 2024

41	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Areas of this stand could be harvest and access would be difficult. This stand serves greater purposes: erosion control, wind throw protection to cedar, wildlife travel corridor, diversity.							
42	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	<b>Available</b>	<b>2I: Survey needed</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Further investigation of records/on the ground is needed to determine whether a survey is necessary.							
46	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 82  
Year of Entry: 2024

47	<b>Available</b>	<b>2I: Survey needed</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Further investigation of records/on the ground is needed to determine whether a survey is necessary.							
48	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
50	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	6123 - Lowland Fir	Sapling Well	8.7	36	1-50	N/A																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>34</td> <td>Sapling/Pole</td> <td>4</td> <td>112</td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>64</td> <td>Sapling/Pole</td> <td>4</td> <td>36</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	34	Sapling/Pole	4	112	Paper Birch	2	Sapling/Pole	4		Balsam Fir	64	Sapling/Pole	4	36																									
Canopy Species	% Cover	Size Class	DBH	Age																																																
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Balsam Fir	64	Sapling/Pole	4	36																																																
2	6124 - Lowland Spruce-Fir	Poletimber Well	156.6	36		N/A	Throughout most of the stand there is a lower age cohort of balsam fir. This stand is too wet to harvest. The stand is a mosaic of balsam fir, cedar, and black spruce dominate areas.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>35</td> <td>Pole/Log</td> <td>8</td> <td>114</td> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>45</td> <td>Sapling/Pole</td> <td>3</td> <td>36</td> <td>Balsam Fir</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	35	Pole/Log	8	114	Tag Alder	Low	5 - 10 feet	Tall Shrub	Balsam Fir	45	Sapling/Pole	3	36	Balsam Fir	High	10 - 20 feet	Sapling	Tamarack	5	Pole/Log	9						Black Spruce	15	Pole/Log	8					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
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Tamarack	5	Pole/Log	9																																																	
Black Spruce	15	Pole/Log	8																																																	
3	4134 - Aspen, Spruce/Fir	Poletimber Well	1.9	46	51-80	N/A	This is long term retention from Timber Sale Name: Backstrap Mix; Timber Sale No.: 54-040-14.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>65</td> <td>Pole</td> <td>7</td> <td>46</td> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>35</td> <td>Pole/Sapling</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	65	Pole	7	46	Balsam Fir	Medium	Variable	Sapling	Balsam Fir	35	Pole/Sapling	6																							
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Balsam Fir	35	Pole/Sapling	6																																																	
4	6123 - Lowland Fir	Sapling Well	14.6	29	1-50	N/A	This stand consists of a mosaic of 1-2 acre chunks that were harvested at various times. A 0.5 acre chunk was harvested north and central in 1996. A 1.5 acre pocket was harvested from the southern 1/3 of this stand in February of 1991. Another 1.5 acre plot was harvested from the southern portion in January-February of 1994. The southern 2 acres in the northern portion was harvested in 1993 by mid-April.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>60</td> <td>Sapling</td> <td>4</td> <td>29</td> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>15</td> <td>Sapling</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	60	Sapling	4	29	Balsam Fir	Medium	Variable	Sapling	Northern White Cedar	10	Pole/Log	8		Tag Alder	Medium	Variable	Tall Shrub	Black Spruce	15	Pole/Sapling	5						Balsam Poplar	15	Sapling	4					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
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Balsam Poplar	15	Sapling	4																																																	
5	3102 - Grass	Nonstocked	3.2			No																																														
6	4130 - Aspen	Sapling Well	3.5	27	Immature	N/A	All trees were harvested from this stand with the exception of oak and red pine via Timber Sale Name: Finders Keepers; Timber Sale Number: 54-003-95-01 that was closed out in September of 1995.																																													
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7	4131 - Aspen, Oak	Poletimber Well	8.1	27	1-50	N/A	The aspen are suppressed in areas high to oak. Manage the current stand with a focus on the aspen. All trees were harvested from this stand with the exception of oak and red pine via Timber Sale Name: Finders Keepers; Timber Sale Number: 54-003-95-01 that was closed out in September of 1995.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
8	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.4	110	51-80	N/A	This is a nice diversity finger/low ground drainage. Legacy white pine are frequent.																																						
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9	6120 - Lowland Cedar	Sawtimber Well	42.5	125	Unspecified	N/A	The BA is highly variable throughout. There are multiple free flowing streams. The understory may be either full or absent, depending on location.																																						
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10	6120 - Lowland Cedar	Poletimber Well	34.3	127		N/A	Consists of balsam fir, spruce, tag alder swamp with higher ground areas of cedar.																																						
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11	4130 - Aspen	Sapling Well	57.9	3	Immature	N/A	This stand was harvested on 7/3/2019 as part of Timber Sale Name: Backstrap Mix; Timber Sale No.: 54-040-14. Log/pole sized pockets/scattered cedar and white pine were retained during the last harvest.																																						
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12	310 - Herbaceous Openland	Nonstocked	2.7			No	This is a wildlife opening that is filling in with white oak, white pine, aspen, for, spruce, etc. There are plantings in 6 cages and 16 plus tree tubes.																																						
13	4131 - Aspen, Oak	Sapling Well	14.5	35	1-50	N/A	All trees with a merchantable stick were harvested from this stand as part of Timber Sale Name: Wild Shoe Block; Timber Sale Number: 54-030-84-01. This sale was closed out in March of 1987.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
14	4123 - Red Oak	Sawtimber Poor	2.3	103	1-50	N/A	This is a wildlife opening with scattered mature oak. The stand could still be managed for wildlife but is slowly filling in with balsam fir and white pine. The stand appears to have been maintained as wildlife food plot in past, but now is largely sweet fern. Could mow, plant, burn, etc.			
<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		100	XLog/Log	20	103	Balsam Fir		Low	Variable	Sapling
						White Pine	Trace	Variable	Sapling	
15	4123 - Red Oak	Sawtimber Well	29.2	102	111-140	N/A	2024 YOE Inventory BA Measurements: (160, 120, 180). This stand was marked for a thinning to 80-90 BA of oak with the removal of aspen, fir, and maple post 2014 YOE Review. The treatment was subsequently terminated.			
<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		3	Log	15		Balsam Fir	Low	Variable	Sapling	
Red Maple		10	Pole/Log	8		Red Maple	Medium	Variable	Sapling	
Bigtooth Aspen		15	Log	15	69	Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Red Oak		60	Log	15	102					
White Oak		2	Log	13						
Balsam Fir		10	Pole	6						
							The stand to the west of the rec trail has a consistent crown and understory component of balsam fir that is not present east of the trail.			
							The stand boundaries were planted with a wide variety of mast producing shrubs/trees on 6/1/2015 via FTP W54 -1034 (DWP). This was 25-50 shrubs/trees of 12 species totaling 350 planted.			
16	4130 - Aspen	Poletimber Well	11.3	35	51-80	N/A	All trees with a merchantable stick were harvested from this stand as part of Timber Sale Name: Wild Shoe Block; Timber Sale Number: 54-030-84-01. This sale was closed out in March of 1987.			
<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	7	35	Red Maple	Full	>20 feet	Sapling	
Red Oak		5	Pole	7		Witch Hazel	Medium	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		80	Pole	7	35					
Red Maple		10	Pole/Sapling	6						
17	4131 - Aspen, Oak	Poletimber Well	12.4	35		N/A	All trees with a merchantable stick were harvested from this stand as part of Timber Sale Name: Wild Shoe Block; Timber Sale Number: 54-030-84-01. This sale was closed out in March of 1987.			
<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		20	Pole	7		Red Maple	Medium	Variable	Sapling	
Red Maple		20	Pole/Sapling	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		60	Pole	6	35					
18	4121 - Oak, Aspen	Sawtimber Well	123.8	102	111-140	N/A	2024 YOE Inventory BA Measurements: (110, 150, 100, 140, 110, 110, 130, 190, 140). This stand has varying densities of aspen and oak in the canopy 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		60	Log	14	102	Red Maple	Medium	>20 feet	Sapling	
White Oak		1	Log	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		34	Log	14						
Red Maple		5	Pole/Log	8						
19	42330 - Upland Fir	Poletimber Well	24.3	39	1-50	N/A	The balsam fir varies somewhat in diameter throughout the stand. Pockets of cedar are present.			
<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 Spruce		2	Pole/Sapling	5		Balsam Fir	High	Variable	Sapling	
Black Spruce		5	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar		5	Log	11						
Balsam Fir		83	Pole/Sapling	5	39					
Quaking Aspen		5	Log	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
20	4130 - Aspen	Poletimber Well	23.5	28	Immature	N/A	All trees were harvested from this stand as part of Timber Sale Name: Chippewa Hills Block; Timber Sale Number: 54-031-94-01. This sale was closed in January of 1994.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling/Pole	4	28	Black Cherry		Low	Variable	Sapling
Red Oak		5	Pole/Sapling	6		Witch Hazel		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		85	Pole/Sapling	5	28	Red Maple		High	Variable	Sapling
21	4130 - Aspen	Sapling Well	10.6	5	Immature	N/A	Regeneration is somewhat sparse in the southeastern 1/3 of the stand where aspen was not present pre-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>	
Bigtooth Aspen		87	Sapling	1	5	Red Maple	High	10 - 20 feet	Sapling	
Red Maple		10	Sapling	1	5	Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Red Oak		3	Sapling	1	5	Blackberry/Raspberry	Full	5 - 10 feet	Tall Shrub	
22	6120 - Lowland Cedar	Sawtimber Well	8.1	114	111-140	N/A	The harvest of this stand was completed in December of 2017 as part of Sale Name: Time Traveler Aspen and Oak; Sale Number 54-037-16-01			
<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>
Northern White Cedar		100	Log/Pole	11	114	Balsam Fir		Low	Variable	Sapling
23	6120 - Lowland Cedar	Poletimber Well	22.7	93		N/A	This stand is too wet to harvest. The cedar are of somewhat smaller diameter west of the forest road due to more saturated soils.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Black Spruce		5	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub	
Northern White Cedar		80	Pole	6	93	Balsam Fir	Medium	Variable	Sapling	
Tamarack		13	Pole	6		Black Spruce	Low	Variable	Sapling	
Paper Birch		2	Pole	9		Tamarack	Low	Variable	Sapling	
24	6111 - Lowland Balsam Poplar	Poletimber Well	12.6	45	1-50	N/A	Some of this stand is too wet to harvest. There is a 2 to 3 foot wide stream that flows through this stand. The area of this stand was that is too wet to harvest was mapped out according to what was remembered of the site visit.			
<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 Poplar		75	Pole	6	45	Balsam Fir	Low	Variable	Sapling	
Balsam Fir		25	Pole/Sapling	6		Balsam Poplar	Low	5 - 10 feet	Sapling	
25	4130 - Aspen	Poletimber Well	14.0	36	1-50	N/A	All trees with a merchantable stick were harvested from this stand in a sale that was closed out in September of 1986. The Sale Name was "Beginning Loop Block"; Sale Number:54-049-84-01.			
<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		10	Pole	6	36	Red Maple	Full	10 - 20 feet	Sapling	
Red Oak		5	Pole	8						
Bigtooth Aspen		80	Pole/Sapling	5	36					
Red Maple		5	Pole/Sapling	5	36					
26	4123 - Red Oak	Sawtimber Well	66.0	107	111-140	N/A	2024 YOE Inventory BA Measurements: (110, 160, 110, 150, 110, 120, 140). The oak are of medium to high quality. All aspen, red maple, and paper birch were harvested from this stand as part of Timber Sale Name: Chippewa Hills Block; Timber Sale Number: 54-031-94-01. This sale was closed in January of 1994.			
<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		97	Log	14	107	Red Maple	Full	Variable	Sapling	
White Oak		1	Log	11		Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		2	Sapling/Pole	4	28					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	4130 - Aspen	Poletimber Well	23.8	51	81-110	N/A	This is a nice healthy stand of aspen; some conks present.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		5	Pole/Log	8		Balsam Fir	
Quaking Aspen		20	Pole/Log	8	51	Witch Hazel	
Red Maple		10	Pole	7		Density	
Bigtooth Aspen		55	Pole/Log	8	51	Avg. Height	
Balsam Fir		10	Sapling	3		Size	
						Sapling	
						Tall Shrub	
28	4131 - Aspen, Oak	Poletimber Well	11.6	35	51-80	N/A	All trees with a merchantable stick were harvested from this stand as part of Timber Sale Name: Wild Shoe Block; Timber Sale Number: 54-030-84-01. This sale was closed out in March of 1987.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		75	Pole/Sapling	6	35	Red Maple	
Red Oak		20	Pole/Sapling	6		Witch Hazel	
Red Maple		5	Sapling/Pole	4		Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
29	4123 - Red Oak	Sawtimber Well	31.8	106	141-170	N/A	2024 YOE Inventory BA Measurements: (190, 150, 170, 170, 170). The oak are of medium quality. Marked previously for a thinning.
<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	7		Red Maple	
Red Oak		89	Log	13	106	Serviceberry (Juneberry)	
Bigtooth Aspen		5	Log	15		Witch Hazel	
White Oak		1	Log	16		Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
						Tall Shrub	
30	4130 - Aspen	Poletimber Well	3.9	36	81-110	N/A	All trees with a merchantable stick were harvested from this stand in a sale that was closed out in September of 1986. The Sale Name was "Beginning Loop Block"; Sale Number:54-049-84-01.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Pole/Sapling	5		Red Maple	
Red Oak		5	Pole	7		Witch Hazel	
Bigtooth Aspen		85	Pole/Sapling	5	36	Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
31	6123 - Lowland Fir	Poletimber Well	14.6	56	51-80	N/A	There is much windthrow west of a pocket of very large diameter cedar in the central portion of the stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		57	Pole	7	56	Balsam Fir	
White Spruce		5	Pole/Sapling	5		Balsam Poplar	
Northern White Cedar		15	Log/Pole	11		Density	
Quaking Aspen		10	Log/Pole	10		Avg. Height	
Balsam Poplar		10	Pole	6		Size	
Black Spruce		3	Sapling/Pole	4		Sapling	
						Sapling	
32	310 - Herbaceous Openland	Nonstocked	1.6			No	This is a rolling hill opening with white pine , spruce, and fir slowly filling it in. This stand could be maintained as a wildlife opening through multiple means.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
<b>33</b>	6120 - Lowland Cedar	Sawtimber Well	4.8	117	111-140	N/A																																																								
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<b>34</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	117.5	102	111-140	N/A	2024 YOE Inventory BA Measurements: (170, 100, 120, 130, 140). This stand has varying densities of aspen and oak in the canopy throughout.																																																							
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<b>35</b>	4130 - Aspen	Sawtimber Well	16.3	60	81-110	N/A	There are 2 age cohorts of aspen in this stand that are 20 years apart in age. The cohort spacing is variable and a middle stand age was used. There is a high amount of white oak in this stand compared to the other stands in this area. There is a higher concentration of oak and red maple north of the forest road.																																																							
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<b>36</b>	330 - Low-Density Trees	Nonstocked	2.4			No	This stand is slowly filling in with trees and in time, if not managed, will lose its viability for use as a managed as a wildlife opening.																																																							
<b>37</b>	4130 - Aspen	Poletimber Well	3.6	27	1-50	N/A	All trees were harvested from this stand with the exception of oak and red pine via Timber Sale Name: Finders Keepers; Timber Sale Number: 54-003-95-01 that was closed out in September of 1995. This harvest extended further to the SW and was approximately double in size. The portion to the SW had little volume taken and maps with another stand.																																																							
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<b>38</b>	4123 - Red Oak	Sawtimber Well	31.7	103	111-140	N/A	These are medium to low quality red oak. The aspen and red maple were removed from this stand at one point making for the suppressed subordinate red maple/sparse aspen that is present in the stand now. The NW corner of the stand that has larger crowns is an inclusion pocket where larger aspen and red maple were not removed.																																																						
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<b>39</b>	3102 - Grass	Nonstocked	1.6		Immature	No	This is a quality wildlife opening that is slowly filling in from the sides with white pine.																																																						
<b>40</b>	4130 - Aspen	Sawtimber Well	26.9	56	81-110	N/A	Aspen dominates the canopy. A subordinate layer of red pine exists throughout much of the canopy.																																																						
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<b>42</b>	42110 - Planted Red Pine	Sawtimber Well	10.2	63	171-200	N/A	2024 YOE Inventory BA Measurements: (180, 150, 200, 170, 180, 100, 170, 160, 190). There is an approximate average of 20% live crown ratio. This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.																																																						
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<b>43</b>	3102 - Grass	Nonstocked	1.0		Unspecified		Gas well pad Riverside Energy LLC (231) 922-7302 State Ossineke A1-25 permit_no: 49006 MPSC #7255																																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
44	42200 - Natural White Pine	Sapling Medium	0.6	12	Immature	N/A	This is a wildlife opening that has grown over to white pine.																																										
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45	3102 - Grass	Nonstocked	1.8		Immature		Gas well pad. Riverside Energy LLC (231) 922-7302 State Ossineke 1-24 Permit No: 54796 Also: State Ossineke D2-24 Permit No: 49867																																										
46	4123 - Red Oak	Sawtimber Medium	48.8	105	51-80	N/A	2024 YOE Inventory BA Measurements: (80, 60, 110, 80, 70, 90, 70). Aspen and red maple regeneration that resulted from the 2014 thinning are dominate in pockets. Red maple regeneration is dominate in some areas while aspen regen is dominate in others. This is typical for the red oak thinnings that took place in this area. All aspen, red maple, and ash were removed; and oak/hardwoods were thinned to 70 BA; completed in September of 2014 as part of Sale Name: Half Hill-Berries; Sale Number: 54-037-10-01																																										
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47	4130 - Aspen	Poletimber Well	21.4	36	81-110	N/A	This stand has rolling hills. The aspen are vigorous and generally healthy. The oak are sparse and mostly from stump sprouts.  All trees with a merchantable stick were harvested from this stand in by September of 1986 as part of Timber Sale Name: East Kissau Road Block; Timber Sale Number: 54-028-84-01.																																										
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48	4123 - Red Oak	Sawtimber Well	38.1	112	51-80	N/A	2024 YOE Inventory BA Measurements: (90, 90, 60, 70, 70, 80). The oak is of medium to high quality with moderate amounts of epicormic branching.  All aspen, red maple, and ash were removed; and oak/hardwoods were thinned to 70 BA; completed in October of 2013 as part of Sale Name: Half Hill-Berries; Sale Number: 54-037-10-01																																										
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<b>49</b>	4130 - Aspen	Poletimber Well	25.3	36	81-110	N/A	All trees with a merchantable stick were harvested from this stand in by September of 1986 as part of Timber Sale Name: East Kissau Road Block; Timber Sale Number: 54-028-84-01. The aspen are vigorous and generally healthy. The oak are sparse and mostly from stump sprouts.																																									
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<b>50</b>	4123 - Red Oak	Sawtimber Well	27.8	101	51-80	N/A	2024 YOE Inventory BA Measurements: (80, 90, 70, 80, 50, 60, 70). The oak is of medium to high quality with moderate amounts of epicormic branching.  All aspen, red maple, and ash were removed; and oak/hardwoods were thinned to 70 BA; completed in October of 2013 as part of Sale Name: Half Hill-Berries; Sale Number: 54-037-10-01																																									
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<b>51</b>	3102 - Grass	Nonstocked	1.0		Unspecified		Gas well pad. Riverside Energy LLC (231) 922-7302 State Ossineke C1-25 Permit No: 57018																																									
<b>52</b>	42110 - Planted Red Pine	Sawtimber Well	14.7	62	141-170	N/A	2024 YOE Inventory BA Measurements: (190, 160, 100, 120, 120, 140, 180, 160, 200, 170, 140). There are areas of this stand where the red pine could use a crown thinning. There is often less than 20% live crown ratio. A 3rd row thinning of this stand was completed in October of 2021 as part of Timber Sale Name: Crooked Tree Pine; Timber Sale No. 54-032-14. The 3rd row thinning treatment prescription of this stand read "Remove every 3rd row of red pine, plus up to 2/3 of trees of most other species."																																									
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<b>55</b>	4123 - Red Oak	Sawtimber Well	16.2	107	111-140	N/A	2024 YOE Inventory BA Measurements: (80, 80, 50, 100, 80, 70, 70). There is a scattering of pole size red pine in the western half of the stand that likely seeded in from the red pine stand adjacent to the west. There are scattered large red pine that are mostly concentrated to the NW. A thinning of this stand was completed on 1/11/18 as part of Timber Sale Name: Time Traveler Aspen and Oak; Timber Sale Number: 54-037-16-01.																																									
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57	4130 - Aspen	Sapling Well	18.9	36	81-110	N/A	There are scattered red pine along the west edge and a trace amount of mature red pine in the stand.																																															
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59	4123 - Red Oak	Sawtimber Well	37.5	97	81-110	N/A	2024 YOE BA Measurements: (80, 90, 40, 120, 90, 60, 60, 40). The oak is of medium to high quality with moderate amounts of epicormic branching. The small and large crown areas in aerial imagery depict smaller and larger diameter red oak respectively. The understory tends to be either dominated by red maple, aspen, or is somewhat sparse.																																															
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60	4112 - Maple, Beech, Cherry Association	Sapling Well	1.1	15	Immature	N/A	Most maple from seed.																																															
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61	4123 - Red Oak	Sawtimber Well	95.2	97	51-80	N/A	2024 YOE Inventory BA Measurements (80, 100, 160, 70, 60, 110, 100, 110, 90). The oak are of medium to high quality with moderate amounts of epicormic branching. Red maple is consistent in the understory throughout in varying densities. Aspen is in pockets; mostly at the north and south ends.  All aspen and red maple were removed and oak/hardwoods were thinned to 70 BA; completed in November of 2008 as part of Sale Name: Poison Hill-Berries; Sale Number: 54-026-05-01  Oak wilt detected in this in 2014. See OFS point. --RGB																																																								
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62	4123 - Red Oak	Sawtimber Well	23.1	97	81-110	N/A	2024 YOE BA Measurements: (100, 70, 80, 130, 70, 50). The oak is of medium to high quality with moderate amounts of epicormic branching. The small and large crown areas in aerial imagery depict smaller and larger diameter red oak respectively. This stand has a fairly open understory.																																																								
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64	4319 - Mixed Upland Forest	Sawtimber Well	9.6	71	141-170	N/A	This is a valley wildlife travel corridor with mild to steeper slopes on the north and south sides. Legacy white pine and red pine are present. The aspen are concentrated to the west and the white pine are found throughout. There is a small line of cedar at the west end.																																																								
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<b>67</b>	4130 - Aspen	Poletimber Well	8.3	45	81-110	N/A	There is a significantly large pocket of aspen in the south end where aspen was not harvested last entry that averaged 12 inch DBH, during the 2024 YOE. The larger oak and red maple are in the north end of the stand.																																				
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<b>68</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	0.9	2	Immature	N/A	Part of Turkey Chaser Oak Wilt Sale, completed 4/15/20																																				
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<b>69</b>	4112 - Maple, Beech, Cherry Association	Sapling Medium	3.4	1	Immature	N/A	The harvest of this stand was completed in April of 2020 as part of Sale Name: Turkey Chaser Oak Wilt; Sale No.: 54-004-20.  Oak stump sprouts are minimal and where present they are heavily browsed.  There are 4 spore trees still standing; 12-14 DBH; 3 of 4 are dead. The black cherry regeneration is unbrowsed. The red maple regeneration is heavily browsed.  Part of Turkey Chaser Oak Wilt sale. completed 4/15/20																																				
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<b>70</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	1.0	12	Immature	N/A	A harvest was completed on this stand/pocket on 4/15/20 for stopping the spread of oak wilt.																												
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<b>71</b>	3102 - Grass	Nonstocked	1.0	0	Unspecified		Gas well pad. Riverside Energy LLC (231) 922-7302 State Ossineke A1-23 Permit No: 49004																												
<b>72</b>	3104 - Degraded	Nonstocked	0.9	0			Gas well pad. Riverside Energy LLC (231) 922-7302 State Ossineke B4-22 HD1 Permit No: 49132																												
<b>73</b>	3104 - Degraded	Nonstocked	0.9	0	Immature	No	Gas well pad Riverside Energy LLC (231) 922-7302 State Ossineke A3-26 permit_no: 48364																												
<b>74</b>	3104 - Degraded	Nonstocked	0.9	0			Riverside Energy LLC (231) 922-7302 State Ossineke D4-23 permit_no: 57418 MPSC 11560 Well																												
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<b>76</b>	3104 - Degraded	Nonstocked	1.0	0	Unspecified		Gas well pad. Riverside Energy LLC (231) 922-7302 State Ossineke C2-25 Permit No: 49007 MPSC 7256 Well																												
<b>77</b>	3104 - Degraded	Nonstocked	0.9	0	Unspecified		Gas well pad Riverside Energy LLC (231) 922-7302 State Ossineke A2-36 Permit No: 57044 MSPC 11372																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78	3104 - Degraded	Nonstocked	0.9	0	Unspecified		Gas well pad Riverside Energy LLC (231) 922-7302 State Ossineke B2-36 Permit No: 57045 Well #11327
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79	4134 - Aspen, Spruce/Fir	Poletimber Well	8.5	46	51-80	N/A	The timber in this aspen stand is lessening in quality/showing signs of rot and conks.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Pole/Log	9	46	Balsam Fir	Medium	>20 feet	Sapling
Balsam Fir	30	Pole/Sapling	6					

80	4130 - Aspen	Poletimber Well	10.4	50	81-110	N/A	This is a healthy aspen stand that will hold for now.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	7		Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Red Oak	10	Pole	8	50	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	67	Pole/Log	9	50				
Quaking Aspen	10	Pole/Log	9	50				
Red Pine	3	XLog/Log	20					

81	4130 - Aspen	Sapling Well	4.3	3	Immature	N/A	Log/pole sized scattered cedar and white pine were retained during the last harvest. This stand was harvested on 7/3/2019 as part of Timber Sale Name: Backstrap Mix; Timber Sale No.: 54-040-14.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	92	Sapling	1	3	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Balsam Fir	2	Sapling	1					
White Pine	1	Sapling	1					
Red Maple	5	Sapling	1	3				

82	4130 - Aspen	Poletimber Well	5.8	45	81-110	N/A	This is a healthy aspen stand that will hold for now.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	5	Pole/Log	9		Red Maple	High	Variable	Sapling
Bigtooth Aspen	90	Pole	8	45				

83	4139 - Aspen, Mixed Deciduous	Sapling Well	4.7	4	Immature	N/A	The harvest of this stand was completed in January of 2018 as part of Sale Name: Time Traveler Aspen and Oak; Sale Number 54-037-16-01
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Sapling	4		Hawthorn (spp.)	Low	< 5 feet	Tall Shrub
Red Maple	38	Sapling	1	4	Autumn Olive	Low	5 - 10 feet	Tall Shrub
Red Oak	10	Sapling	1	4	Blackberry/Raspberry	Full	5 - 10 feet	Tall Shrub
Black Cherry	5	Sapling	1	4				
Bigtooth Aspen	45	Sapling	1	4				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>84</b>	42110 - Planted Red Pine	Sawtimber Well	3.6	63	111-140	N/A	2024 YOE Inventory BA Measurements: (180, 100, 150, 200, 180, 140). There is approximately 20% live crown ratio.																																																				
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<b>85</b>	42110 - Planted Red Pine	Sawtimber Well	4.4	63	111-140	N/A	2024 Inventory BA Measurements: (160, 160, 140, 140, 180) There is an approximate average of 20% live crown ratio. This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.																																																				
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<b>86</b>	42110 - Planted Red Pine	Sawtimber Well	6.3	63	141-170	N/A	2024 YOE Inventory BA Measurements: (110, 170, 140, 160, 130, 210, 210). There is an approximate average of 20-25% live crown ratio. This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.																																																				
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<b>87</b>	6112 - Lowland Aspen	Sawtimber Well	16.2	71	81-110	N/A	The white pine and red pine tend to occur in pockets. Legacy white pine and red pine are present. Much of the stand is on a northern aspect slope along the south edge and a southern aspect slope along the northern edge.																																																				
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<b>88</b>	42110 - Planted Red Pine	Sawtimber Well	3.3	62	141-170	N/A	A 14" DBH Red Pine aged at 57 during the 2024 YOE Inventory. It is likely that all red pine pockets in the area were planted at the same time so an age of 5 years older was given the stand. Red pine spacing is sporadic. To the eye this does not look like a planting but it was most likely planted at the same time as the other pine in the area.  A 3rd row thinning (really just a crown thinning) of this stand was completed in October of 2021 as part of Timber Sale Name: Crooked Tree Pine; Timber Sale No. 54-032-14.																																																				
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<b>89</b>	42110 - Planted Red Pine	Sawtimber Well	1.4	63	111-140	N/A	2024 YOE Inventory BA Measurements: (130, 160, 160, 140) This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>90</b>	6120 - Lowland Cedar	Sawtimber Well	3.7	125	141-170	N/A	A 2-3 foot wide stream runs E-W the length of the stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Pine		5	XLog/Log	22					
Black Spruce		2	Log	14					
Paper Birch		1	Pole/Log	9					
Northern White Cedar		86	Log/Pole	11	125				
White Spruce		1	Log/XLog	16					
Quaking Aspen		5	Log/XLog	16					
<b>91</b>	4130 - Aspen	Sapling Medium	7.1	4	Immature	N/A	The harvest of this stand was completed in January of 2018 as part of Sale Name: Time Traveler Aspen and Oak; Sale Number 54-037-16-01		
<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		87	Sapling	1	4	Blackberry/Raspberry	Full	< 5 feet	Tall Shrub
Black Cherry		2	Sapling	1	4	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak		1	Sapling	1	4				
Red Maple		10	Sapling/Pole	1	4				
<b>92</b>	6111 - Lowland Balsam Poplar	Poletimber Well	1.8	40	1-50	N/A	All merchantable trees were harvested from this stand in December of 1982.		
<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 Poplar		100	Pole/Sapling	6	40	Willow spp.	High	5 - 10 feet	Tall Shrub
						Balsam Poplar	Low	Variable	Sapling
<b>94</b>	42110 - Planted Red Pine	Sawtimber Well	5.3	63	111-140	N/A	2024 YOE Inventory BA Measurements: (220, 100, 160, 120, 150, 120) This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.		
<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		5	Log	15		Red Maple	High	Variable	Sapling
Black Cherry		2	Pole/Log	8					
Quaking Aspen		3	Log	12					
Balsam Poplar		2	Log/Pole	11					
Red Pine		83	Log/Pole	12	63				
Red Oak		5	XLog/Log	20					
<b>95</b>	42110 - Planted Red Pine	Sawtimber Well	2.0	63	111-140	N/A	2024 YOE Inventory BA Measurements: (170, 140, 160, 170) This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.		
<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		95	Log/Pole	11	63	Red Maple	High	Variable	Sapling
Quaking Aspen		5	Log/Pole	10					
<b>96</b>	42110 - Planted Red Pine	Sawtimber Well	2.0	63	111-140	N/A	2024 YOE Inventory BA Measurements: (170, 140, 160, 170). There is an approximate average of 20% live crown ratio. This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.		
<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	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Red Pine		95	Log/Pole	11	63	Beech	Low	Variable	Sapling
						Autumn Olive	Trace	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>97</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	4.5	50	81-110	N/A	This stand has various diameter aspen and planted red pine along the NE and NW edges.
<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/Log	8		Red Maple	
Bigtooth Aspen		25	Log/Pole	11	50	High	
Red Pine		20	Log/Pole	10	63	Variable	
Red Oak		7	Log	13		Sapling	
Quaking Aspen		40	Log/Pole	11	50		
White Oak		3	Log	16			
<b>98</b>	42110 - Planted Red Pine	Sawtimber Well	3.4	63	111-140	N/A	2024 YOE Inventory BA Measurements: (180, 150, 160, 70, 160, 150, 180). This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		5	Log/XLog	16		Red Maple	
Black Cherry		2	Log	11		High	
Red Pine		93	Log/Pole	12	63	Variable	
						Sapling	
						Sapling	
						Sapling	
<b>99</b>	42110 - Planted Red Pine	Sawtimber Well	0.7	63	111-140	N/A	2024 YOE Inventory BA Measurements: (190, 220, 250) This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		90	Log/Pole	11	63	Red Maple	
Red Oak		10	Log/XLog	16		Medium	
						Variable	
						Sapling	
<b>100</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	5.5	52	51-80	N/A	The oak regenerated well from stump sprouts at the east end of this stand when it was last harvested over a half century ago. The red maple are mostly from stump sprouts and have been slow to add diameter.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		30	Pole/Log	9	52	Balsam Fir	
White Pine		2	Log/Pole	10		Low	
Balsam Fir		5	Pole	8		Variable	
Bigtooth Aspen		3	Pole	8		Sapling	
Red Maple		60	Pole/Sapling	6	52		
<b>101</b>	42110 - Planted Red Pine	Sawtimber Well	2.1	63	171-200	N/A	2024 YOE Inventory BA Measurements: (190, 210, 190, 220, 160). Very low live crown ratio (less than 20%) in much of the stand. This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		5	XLog/Log	20		Witch Hazel	
Red Maple		2	Log	15		Low	
Red Pine		93	Log/Pole	11	63	5 - 10 feet	
						Tall Shrub	
						Sapling	
<b>102</b>	4311 - Pine, Aspen Mix	Poletimber Well	2.4	62	111-140	N/A	There is enough red pine in this stand that the red pine should be the focus of management.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Pole	6	36	Red Maple	
Red Oak		5	Pole	6	36	Medium	
Red Pine		55	Pole/Log	8	62	Variable	
Bigtooth Aspen		30	Pole	7	36	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>103</b>	42110 - Planted Red Pine	Sawtimber Well	1.8	62	141-170	N/A	2024 YOE Inventory BA Measurements: (110, 140, 210, 230, 210, 210).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		95	Log/Pole	11	62	Red Maple	
Red Oak		5	XLog/Log	18		Medium	
						10 - 20 feet	
						Sapling	
<b>104</b>	122 - Road/Parking Lot	Nonstocked	5.5	0			This stand contains Kissau Rd and the north and south Chippewa Hills Pathway trailheads/parking lots.
<b>105</b>	4319 - Mixed Upland Forest	Sawtimber Well	2.3	81	51-80	N/A	This stand has a well spaced component of large log to legacy type red pine in the canopy.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		45	XLog/Log	20	81	Witch Hazel	
Bigtooth Aspen		20	Pole/Log	9		Low	
Red Maple		25	Pole	6	50	Medium	
Red Oak		10	Pole	8		>20 feet	
						Sapling	
						Tall Shrub	
<b>106</b>	4310 - Pine, Oak Mix	Poletimber Well	1.9	63	141-170	N/A	2024 YOE Inventory BA Measurements: (170, 100, 130, 160). This is a planted red pine stand that is suppressed by aspen and oak that out competed the red pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		50	Pole	7	63		
Quaking Aspen		25	Pole/Log	9			
Red Oak		25	Log	16	103		
<b>107</b>	42110 - Planted Red Pine	Sawtimber Well	4.9	62	111-140	N/A	2024 YOE Inventory BA Measurements (150, 149, 80, 130, 150, 110). Most of the red pine have 25 percent or less live crown ratio.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		85	Log/Pole	11	62	Red Maple	
White Pine		2	XLog	25		Medium	
Red Maple		3	Log	15		10 - 20 feet	
Red Oak		10	Log/XLog	17		Sapling	
<b>108</b>	42110 - Planted Red Pine	Sawtimber Well	13.5	62	111-140	N/A	2024 YOE Inventory BA Measurements east: (230, 110, 180, 140). The live crown ratio to the east is 25% or less. There is no under story in the west. Dense Rows to West (200, 240, 190, 310, 300). The live crown ratio to the west is 15-20%. Age was verified by coring.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		90	Log/Pole	11	62	Red Maple	
Red Maple		5	Log	12		Medium	
Red Oak		5	Log	16		Low	
						5 - 10 feet	
						Sapling	
<b>109</b>	4130 - Aspen	Sapling Medium	4.7	12	81-110	N/A	This portion of the harvest had less than 25 percent canopy remaining. Scattered large log size oak, black cherry, and white pine are present. The aspen saplings in the northern 1/3 of the stand are 5 years younger. The western 1/3 of the stand has more canopy and is an inclusion pocket, that for management purposes, fits in better with this stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		80	Sapling	2	12		
White Pine		10	Sapling/Pole	4			
Red Maple		5	Sapling	3			
Black Cherry		5	Sapling/Pole	3			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**110** 42201 - Natural White Pine, Mixed Deciduous Sawtimber Medium 4.2 80 51-80 N/A This stand is a. pine wildlife travel corridor.thinned 2007

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	60	Log/Pole	12	80	Bigtooth Aspen	High	>20 feet	Sapling
Black Cherry	10	Log/Pole	10		Black Cherry	Low	Variable	Sapling
Red Oak	25	Log	15		Balsam Fir	Low	Variable	Sapling
Red Pine	5	XLog/Log	19		White Pine	Medium	Variable	Sapling

**111** 4123 - Red Oak Sawtimber Well 8.9 110 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Pole/Log	8	52	Balsam Fir	Low	Variable	Sapling
Red Maple	10	Pole/Sapling	6		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Red Oak	70	Log/XLog	16	110	Red Maple	Medium	>20 feet	Sapling
					White Pine	Low	Variable	Sapling

-Variance for treatment was requested 12/12/18 and approved 1/7/19 (see compartment file)

**112** 4123 - Red Oak Sawtimber Well 6.7 110 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Pole/Log	8		Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Red Oak	65	Log/XLog	17	110	Red Maple	Medium	>20 feet	Sapling
Red Maple	20	Pole/Log	8		Red Pine	Medium	Variable	Sapling
Bigtooth Aspen	5	Log	12					

2024 YOE Inventory BA Measurements (140, 140, 110). This stand was marked for a thinning for the 2014 YOE before the prescription was removed. Oak pushing Legacy size are present.

**113** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 6.3 63 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log	12		Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
Red Oak	30	Log/XLog	17	103	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	10	Log	14		Red Pine	Low	Variable	Sapling
Paper Birch	5	Log	12					
Red Pine	33	Log	12	63				

The western half of this stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.

The red pine was not dense enough for this to continue as part of a greater red pine stand.

**114** 4116 - Mixed N. Hardwood - Aspen Sapling Well 4.5 3 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Sapling	1	3	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry	14	Sapling	1	3	Serviceberry (Juneberry)	Low	Variable	Sapling
Red Oak	1	Sapling	1	3				
Bigtooth Aspen	20	Sapling	1	3				

Many log sized dead, post spore producing, oak wilt killed trees are still standing. Oak stump sprouts present are minimal and heavily browsed. The regeneration in this stand was checked during the 2024 YOE Inventory and was determined to meet regeneration standards. This stand was harvested in the spring of 2019 as part of Timber Sale Name: Oak Wilt Mitigation; Timber Sale Number: 54-006-19.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**115** 42110 - Planted Red Pine Sawtimber Well 1.7 62 141-170 N/A

2024 YOE BA Measurements (80, 170, 140). This is a small stand with highly variable BA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log	11		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	3	Log/XLog	16		Autumn Olive	Low	5 - 10 feet	Tall Shrub
Red Maple	2	Log	15					
Red Oak	5	Log	15					
Red Pine	85	Log/Pole	12	62				

A 3rd row thinning of eastern third of this stand was completed in October of 2021 as part of Timber Sale Name: Crooked Tree Pine; Timber Sale No. 54-032-14. The portion of the stand on the east side of the forest road was not part of the 3rd row thinning.

**116** 4130 - Aspen Poletimber Well 2.9 52 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Red Maple	High	Variable	Sapling
Red Oak	15	XLog/Log	20		Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
Quaking Aspen	50	Log/Pole	11	52	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	30	Pole/Log	9	52				

**117** 4116 - Mixed N. Hardwood - Aspen Sapling Well 2.6 3 Immature N/A

The regeneration in this stand was checked during the 2024 YOE Inventory and was determined to meet regeneration standards. There are 3 dead small log sized spore trees still standing.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Sapling	1	3
Bigtooth Aspen	35	Sapling	1	3
Black Cherry	25	Sapling	1	
Red Oak	5	Sapling	1	3

This stand was harvested in the spring of 2019 as part of Timber Sale Name: Oak Wilt Mitigation; Timber Sale Number: 54-006-19

**118** 6124 - Lowland Spruce-Fir Poletimber Well 5.1 49 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
Northern White Cedar	3	Log	11					
Balsam Fir	42	Pole/Sapling	6	49				
Quaking Aspen	30	Pole	7	45				
Balsam Poplar	10	Pole	7	45				
Black Spruce	5	Pole/Sapling	6					

**119** 4116 - Mixed N. Hardwood - Aspen Sapling Well 2.9 3 Immature N/A

The regeneration in this stand was checked during the 2024 YOE Inventory and was determined to meet regeneration standards. Regeneration success is greatest and on the northern aspect at the north end of the stand. Some oak stump sprouts showing wilted leaves where present in the winter of 2021/22.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	42	Sapling	1	3	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	20	Sapling	1	3				
Red Oak	5	Sapling	1	3				
Bigtooth Aspen	33	Sapling	1	3				

This stand was harvested in the spring of 2019 as part of Timber Sale Name: Oak Wilt Mitigation; Timber Sale Number: 54-006-19



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>120</b>	6111 - Lowland Balsam Poplar	Poletimber Medium	10.7	45	1-50	N/A	This stand has sparse balsam fir and scattered spaced out Balsam Poplar. This stand is too wet to harvest.																																														
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Tag Alder	Full	5 - 10 feet	Tall Shrub																																																		
<b>121</b>	6120 - Lowland Cedar	Sawtimber Well	23.4	125	171-200	N/A	This is a nice healthy stand of cedar with a mostly open understory. A 2-3 foot wide stream runs E-W the length of the stand.																																														
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<b>122</b>	4123 - Red Oak	Sawtimber Well	19.9	103	81-110	N/A	This stand has a lower BA than Stand 15 to the north. This stand also has as a second age cohort as a result of past thinning. The NW arm is large bigtooth aspen. Sparse markings for a thinning throughout the stand are present. This stand was marked for a thinning to 80-90 BA of oak with the removal of aspen, fir, and maple post 2014 YOE Review. The treatment was subsequently terminated.																																														
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<b>123</b>	42110 - Planted Red Pine	Sawtimber Well	2.3	63	111-140	N/A	2024 YOE Inventory BA Measurements: (150, 140, 230, 190) This stand was 3rd row thinned in the fall of 2006 as part of Timber Sale Name: Chippewa Hills Red; Timber Sale Number: 54-028-04-01.																																														
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<b>124</b>	4131 - Aspen, Oak	Sawtimber Well	16.4	65	81-110	N/A	There us a steep slope south of the field in the center portion of the stand. The aspen vary in size throughout.																																														
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<b>125</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	3.4	36	1-50	N/A	The red maple from stump sprouts are the cut age. The age of the red maple from seed varies. This stand was divided out from the stand to the east due to its composition of oak and red maple.																																														
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<b>126</b>	310 - Herbaceous Openland	Nonstocked	1.1	0		No	This is a wildlife opening with scattered large diameter, large crowned oak. This stand could be maintained as a wildlife opening through multiple means.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>128</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	3.1	55	81-110	N/A	This stand is an area that was not part of the adjacent harvests and does not fit in with any of the adjacent stands.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log/Pole	11		White Ash	Low	Variable	Sapling
Red Maple	5	Log	12		Red Maple	Low	Variable	Sapling
Red Oak	31	Log/XLog	17		White Pine	Low	Variable	Sapling
Bigtooth Aspen	40	Log/Pole	11	55	Autumn Olive	Low	5 - 10 feet	Tall Shrub
White Pine	19	Log/Pole	12					

<b>129</b>	310 - Herbaceous Openland	Nonstocked	0.6	0		No	This stand is a rare opening for the area and could be planted for wildlife.
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<b>130</b>	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	7.0	60	141-170	N/A	2024 YOE Inventory BA Measurements: (170, 140, 200, 150, 190). This is planted red pine but in much of the stand the row pattern is not obvious. Much of the red pine is suppressed by oak and red maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log	12		Red Maple	Medium	Variable	Sapling
Red Pine	60	Pole	8	60				
Red Oak	20	Log/XLog	16					
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