



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54041

Entry Year 2024

Acreage: 1,748

County Montmorency

Management Area: Rattlesnake Hills

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**Stand Examiner:** Darrick Coy

## Legal Description:

T31N, R2E, Sec. 7, 8, 17, & 18

## Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan. Harvests prescribed will help to balance the age classes of aspen, pine, and other deciduous cover types to sustainably produce various timber products, enhance game and non-game wildlife habitat and provide for forest-based recreational uses.

## Soil and topography:

Soils are primarily sandy to coarse loamy-sand soils. The topography of the compartment is primarily flat to rolling. The compartment is predominately aspen, oak, natural and planted pine, cedar, and lowland conifer cover types. Forest habitat types are primarily dominated by PARVHa, PARVHa/PArVvb, and PArVvb, AFO, and unclassified lowland.

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

State ownership is scattered with seasonal and residential housing. The NE 1/4 of the NE 1/4 of section 17 was recently sold. Many gas wells and pipelines have been established throughout the compartment.

## Unique Natural Features:

Potential occurrences of ram's head lady's-slipper and occurrences of eastern massassauga rattlesnake. Other undocumented rare and endangered species may be present. Contact Michigan Natural Features Inventory for more information or reporting.

## Archeological, Historical, and Cultural Features:

Sites exist. Contact the State Historical Preservation Office for more information or reporting of new sites.

## Special Management Designations or Considerations:

Eastern massassauga managed land High Conservation Value Area and a small portion of the Green Swamp- Rich Conifer Swamp Ecological Reference Area and Natural Community

## Watershed and Fisheries Considerations:

Packer Creek cold water stream and tributary to Van Helen Creek.

## Wildlife Habitat Considerations:

## Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits occur in the area. There appears to be some good sand & gravel potential in the compartment on the uplands, 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. All State-owned mineral 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. There is low potential for discovery of Silurian reefs beneath the compartment, as it appears to be outside the main reef trend. There is no known metallic mineral potential in this part of the state.

## Vehicle Access:

Access to the compartment is good in the compartment with flatter to rolling terrain. Some access two-tracks will need to be reshaped as logging activities begin and progress. Illegal trails created will need to be identified and blocked off as they are found. No trash was found within the compartment.

View the status of state forest roads open to conventional motorized use within the compartment online using the Michigan DNR interactive roads maps or download printable maps for free.

## Survey Needs:

The N 1/2 of the NE 1/4 of section 18 is missing some corners.

**Recreational Facilities and Opportunities:**

Deer hunting and grouse hunting occurs throughout the compartment.

The High Country Pathway is the only designated recreational trail in the compartment. However, other significant recreational use of state forest roads exists. View the status of state forest roads open to motorized and non-motorized recreational use within the compartment online using the Michigan DNR interactive roads maps or download printable maps for free.

**Fire Protection:**

Atlanta DNR, Tri-Township, and Vienna VFDs conduct fire suppression efforts in the area.

**Additional Compartment Information:**

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

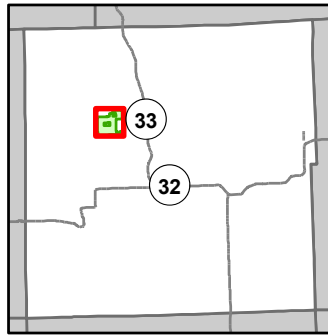
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

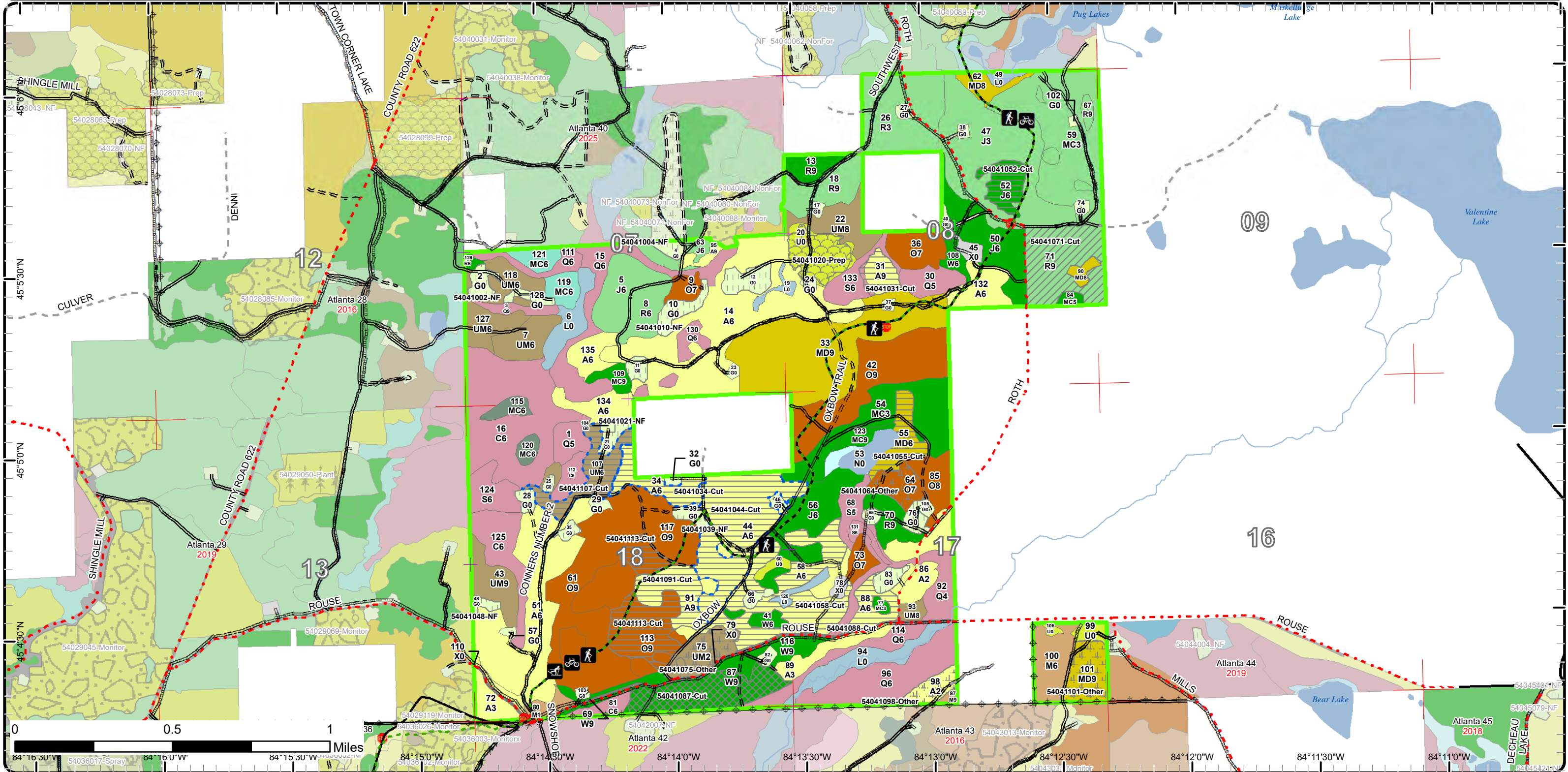
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 41  
 T31N, R02E, Sec. 7, 8, 17, 18  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Rattlesnake Hills  
 YOE: 2024  
 Acres: 1748.4 GIS Calculated  
 Examiner: Darrick Coy  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review

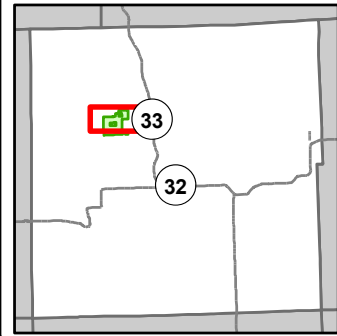


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|---|--|--|---|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>— Counties</li> <li>— DNR - Secondary Forest Road</li> <li>— DNR - Forest Access Route</li> <li>— County - Gravel Road</li> <li>— Private - Dirt / Gravel Road</li> <li>— Abandoned Railroads</li> <li>— Hiking Trails</li> <li>— Bike Trails</li> <li>— Ski Trails</li> <li>— Designated Hiking Trails</li> <li>— Designated Bicycle Trails</li> </ul> | <ul style="list-style-type: none"> <li>— Designated Multi-Use Trails</li> <li>— Gate</li> <li>— Sign</li> <li>— Lake/Pond</li> <li>— Perennial River</li> <li>— Lakes and Rivers</li> <li>— Pipeline</li> <li>— Powerline</li> <li>— Compartment Boundary</li> <li>— Treatments with Site Conditions</li> <li>— Other Treatment - See Comments</li> <li>— Selection (Group, Single Tree)</li> <li>— Clearcut (w/Reserves)</li> <li>— Thinning (Crown, Low, Systematic)</li> <li>— Opening Maintenance</li> </ul> | <ul style="list-style-type: none"> <li>— Site Prep</li> <li>— 411 - Northern Hardwood</li> <li>— 412 - Oak Types</li> <li>— 413 - Aspen</li> <li>— 419 - Mixed Upland Deciduous</li> <li>— 421 - Planted Pines</li> <li>— 422 - Natural Pines</li> <li>— 423 - Other Upland Conifers</li> <li>— 429 - Mixed Upland Conifers</li> <li>— 430 - Upland Mixed Forest</li> <li>— 612 - Lowland Coniferous Forest</li> <li>— 110 - Low Intensity Urban</li> <li>— 122 - Roads/Parking Lot</li> <li>— 310 - Herbaceous Openland</li> <li>— 330 - Low Density Trees</li> </ul> | <ul style="list-style-type: none"> <li>— 622 - Lowland Shrub</li> <li>— 623 - Emergent Wetland</li> </ul> |
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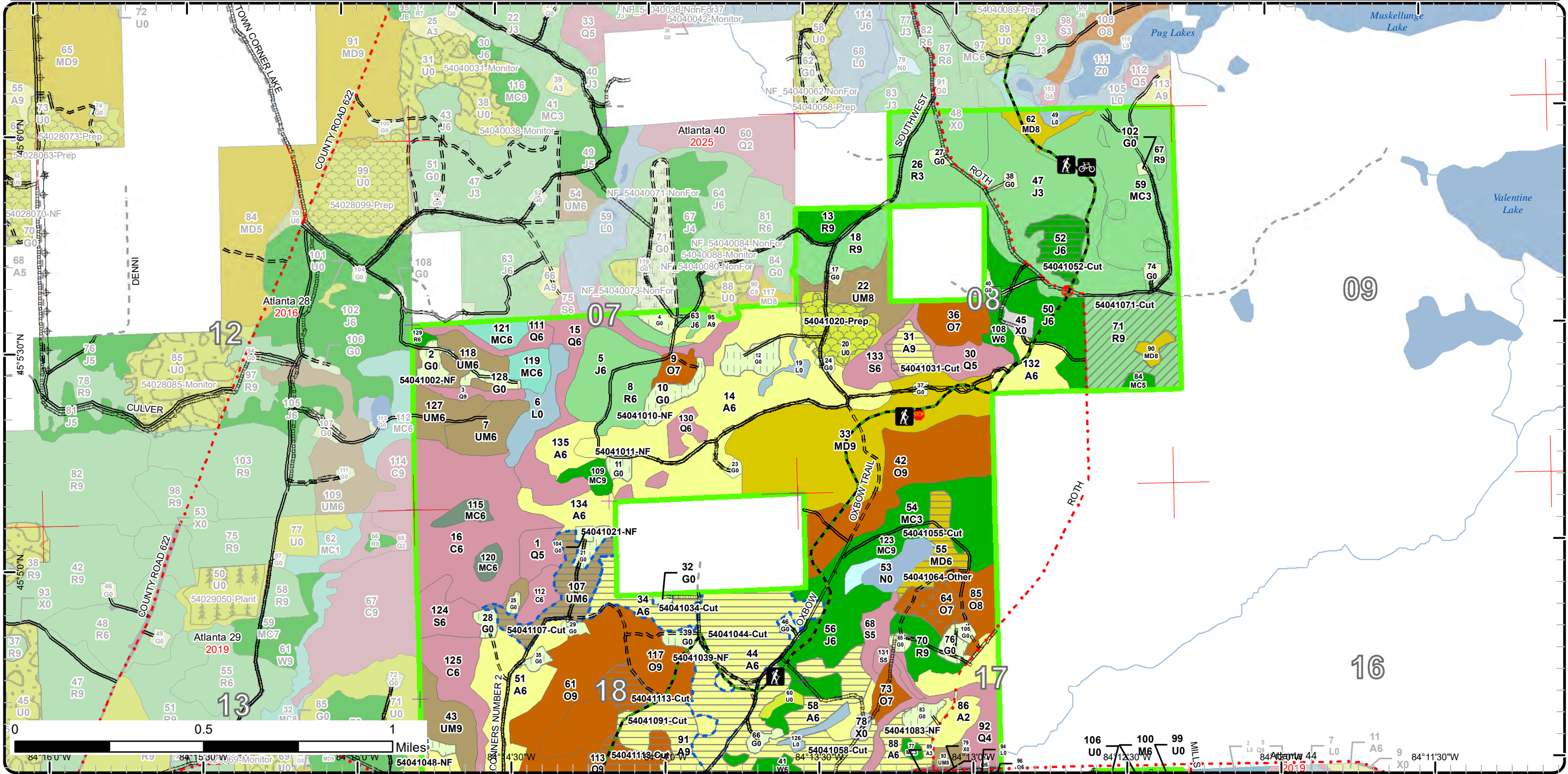


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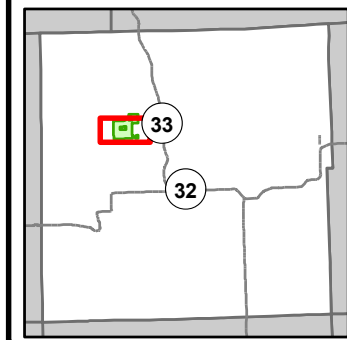


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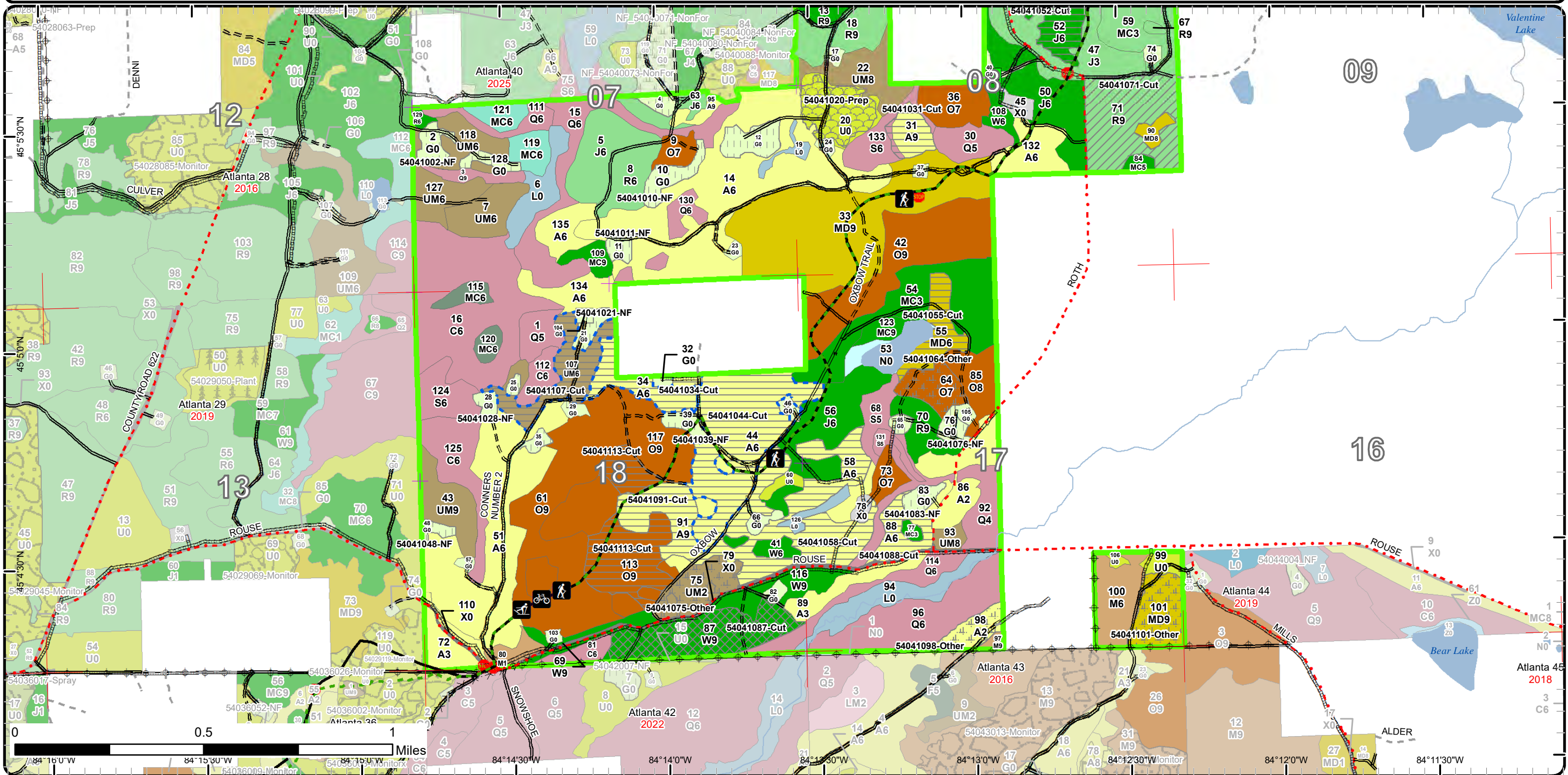


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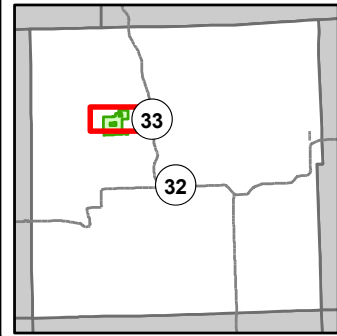


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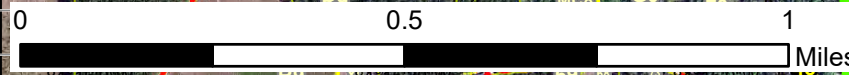
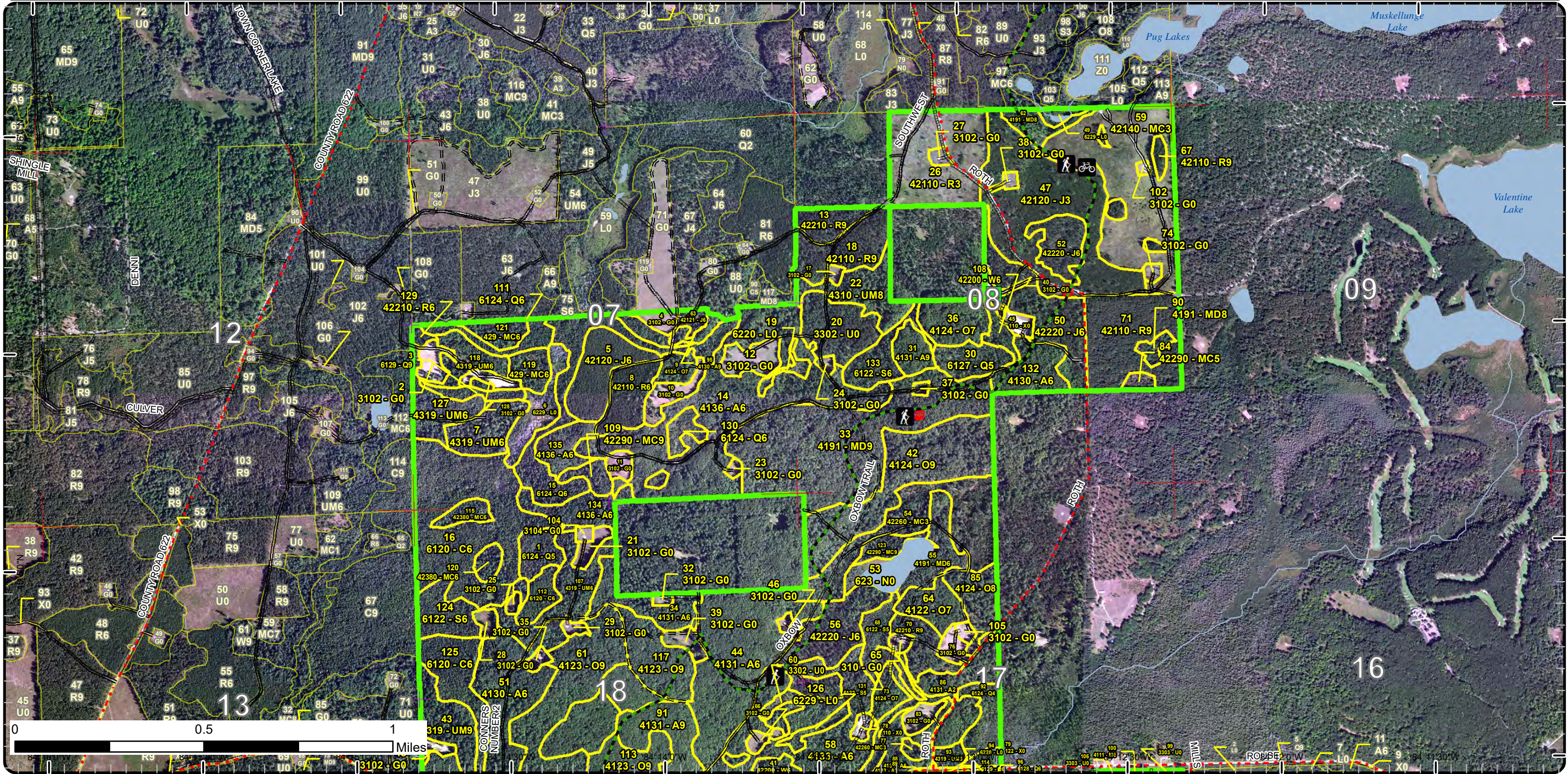


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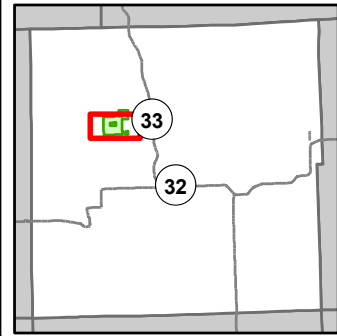


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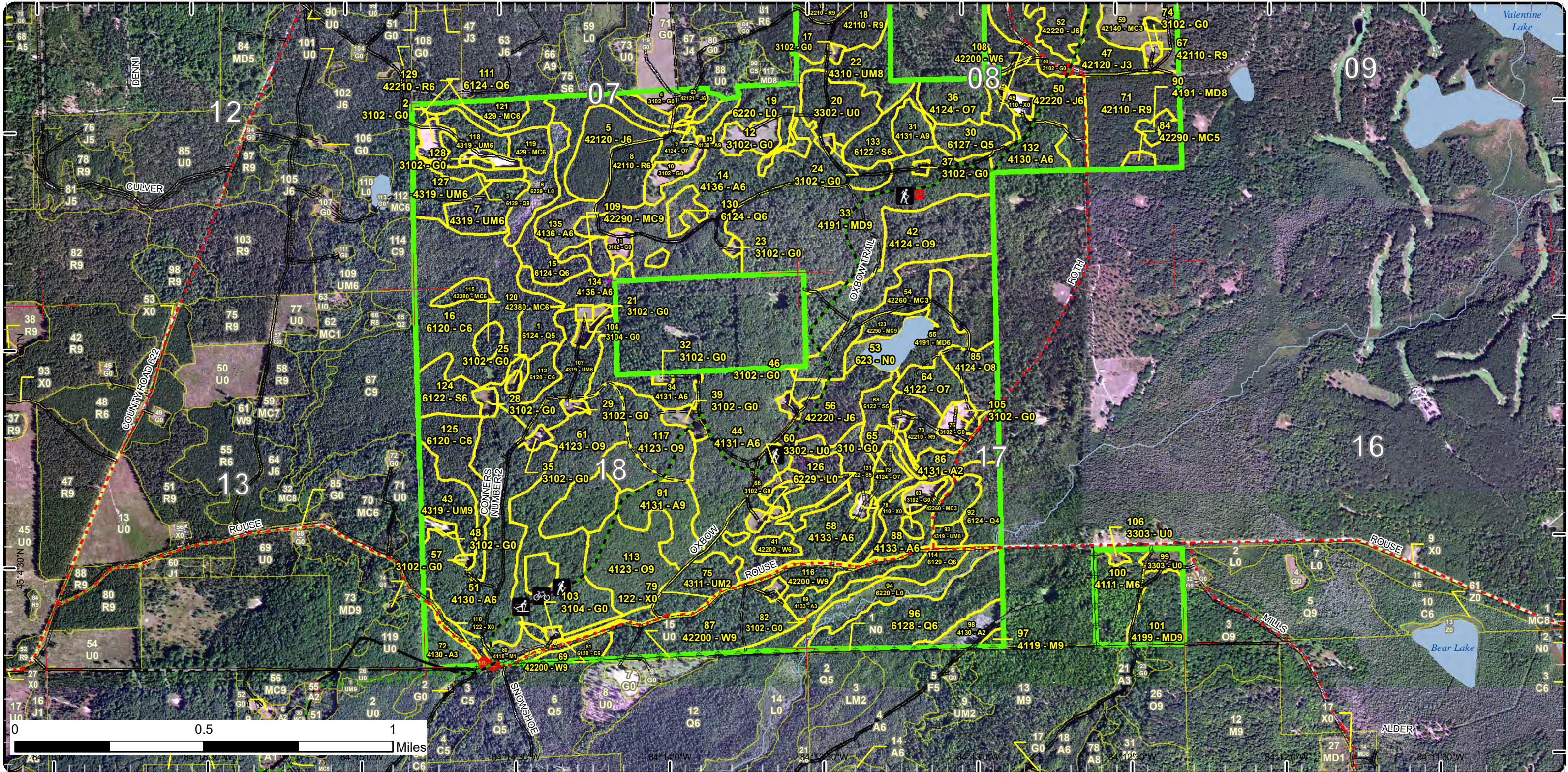


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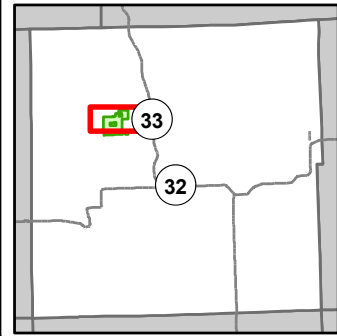


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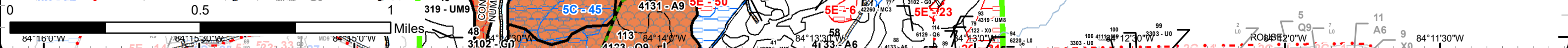
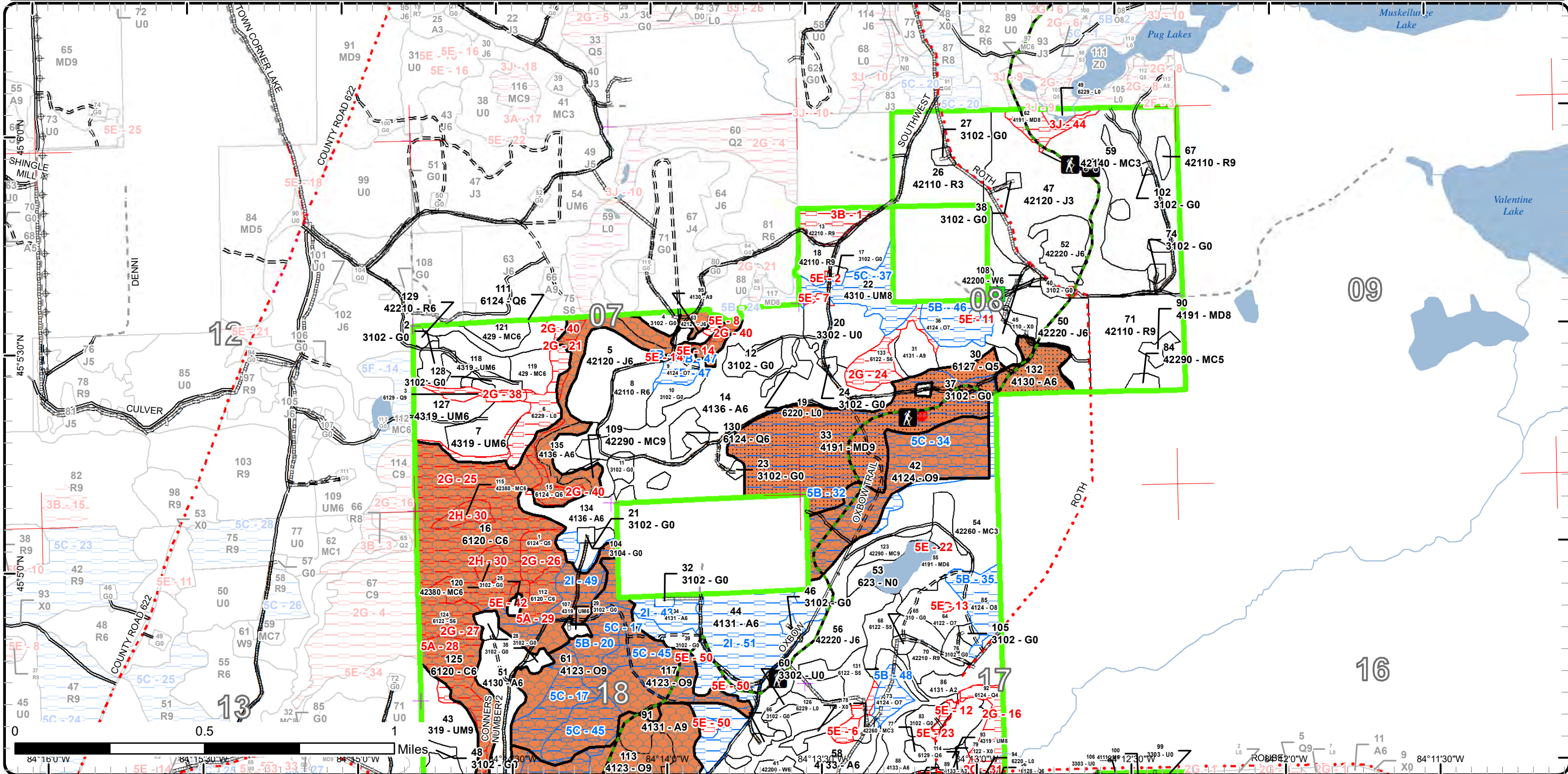


# Special Conservation Areas

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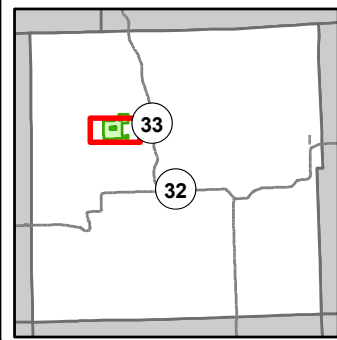
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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- SCA
- SCA Removal
- Cold Water Streams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



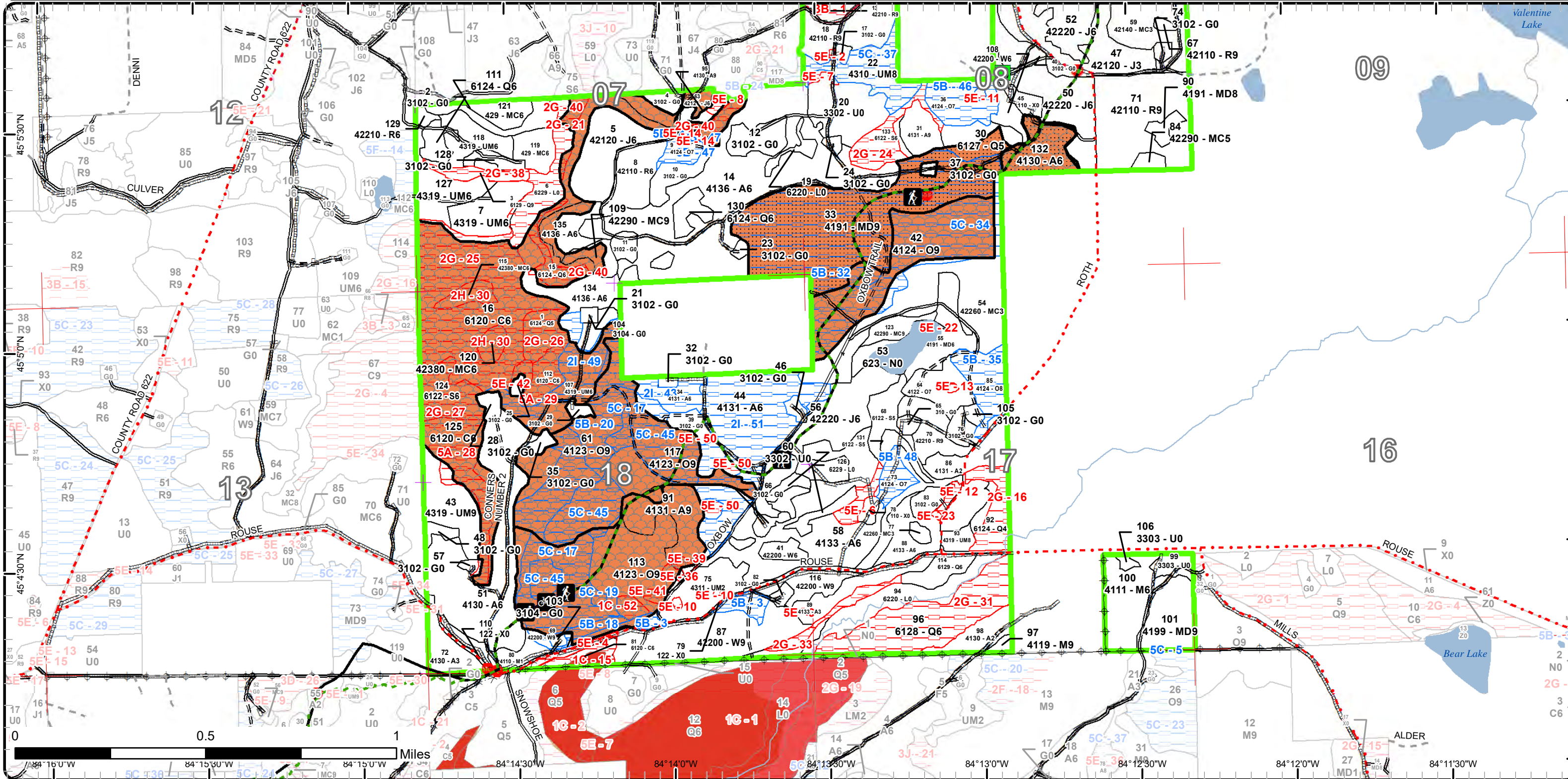


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- 5B: Maintain for regeneration purposes
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- Unavailable
- 1C: Other dept or div proc/practices
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- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Other Habitat Area



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	36	11	0	84	204	14	14	0	7	19	0	0	0	0	0	0	0	389
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	92	0	0	0	0	0	92
Herbaceous Openland	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Jack Pine	0	0	0	62	19	58	0	11	0	0	0	0	0	0	0	0	0	0	150
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Conifers	0	0	0	0	19	60	0	0	8	0	0	34	5	0	0	0	0	0	126
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Spruce/Fir	0	0	0	0	0	0	18	0	12	11	0	0	0	0	0	0	0	0	41
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	0	13	0	0	6	84	16	0	0	0	0	0	0	119
Natural Mixed Pines	0	0	2	36	0	5	2	0	0	0	5	0	0	0	0	0	0	0	50
Northern Hardwood	0	0	0	0	0	5	0	0	0	0	19	0	0	0	0	0	0	0	24
Oak	0	0	0	0	0	0	0	0	0	13	213	0	0	0	0	0	0	0	226
Planted Mixed Pines	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Red Pine	0	0	39	0	12	1	0	0	77	0	0	0	0	0	0	0	0	0	129
Upland Conifers	0	0	0	0	0	0	8	13	0	0	0	0	0	0	0	0	0	0	21
Upland Mixed Forest	0	15	0	0	0	26	20	13	0	0	31	0	0	0	0	0	0	0	104
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	11	8	0	0	0	0	42	0	0	0	0	0	0	61
<b>Total</b>	<b>156</b>	<b>51</b>	<b>111</b>	<b>98</b>	<b>134</b>	<b>370</b>	<b>83</b>	<b>51</b>	<b>97</b>	<b>37</b>	<b>371</b>	<b>92</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1747</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 41

Total Compartment Acres: 1,748

Commercial Harvest - 205  
 Harvests with Site Condition - 84  
 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	148	0	0	0	0	0	0	0	0	148
Jack Pine	12	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Oak	32	0	0	0	0	0	0	0	0	32
Red Pine	0	0	0	0	0	35	0	0	0	35
Upland Mixed Forest	19	0	0	0	0	0	0	0	0	19
White Pine	0	31	0	0	0	0	0	0	0	31
<b>Total</b>	<b>223</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>289</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	289	16	0	0	0	0	48	48	0	401
Next Step	0	62	16	0	31	47	286	0	0	442
<b>Total</b>	<b>289</b>	<b>78</b>	<b>16</b>	<b>0</b>	<b>31</b>	<b>47</b>	<b>286</b>	<b>48</b>	<b>48</b>	<b>843</b>



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>2</b>	<b>54041002-NF</b>	4.5	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p>Follow EMR restrictions and guidelines.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											
<b>4</b>	<b>54041004-NF</b>	3.0	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p>Follow EMR restrictions and guidelines.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											
<b>10</b>	<b>54041010-NF</b>	6.2	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p>Follow EMR restrictions and guidelines.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>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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11	54041011-NF	3.0	3102 - Grass	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

12	54041012-NF	7.5	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

20	54041020-Prep	15.8	3302 - Low Density Conifer Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	42110 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Trench and plant to red pine while encouraging a mixed deciduous component in the stand. Mixed deciduous species will be encouraged in the stand by leaving 1 to 5 acre patches un-planted, or if planted, not sprayed with herbicide.

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

Acceptable Regen: a well stocked mixed stand.

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2022



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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>21</b>	<b>54041021-NF</b>	3.3	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>25</b>	<b>54041025-NF</b>	1.1	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>28</b>	<b>54041028-NF</b>	2.4	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>31</b>	<b>54041031-Cut</b>	8.0	4131 - Aspen, Oak	Sawtimber Well	83	81-110	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
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Prescription -clearcut -no area retention due to small stand size-leave all white pine not to exceed a cumulative residual BA of 10 (should not need to mark to leave)-include grouse tree sale specification and recommend marking trees to leave  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: -aspen, maple, oak, pine, and fir of medium to high stocking

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>34</b>	<b>54041034-Cut</b>	13.7	4131 - Aspen, Oak	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut  
Specs: -leave 3-10% in area retention (already excluded- see site conditions layer)  
-include grouse tree sale specification and recommend marking trees to leave

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: -aspen, maple, oak, pine, and fir of medium to high stocking

Other Comment: -species of concern may be affected, see stand draft treatment comments for more information

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

<b>35</b>	<b>54041035-NF</b>	1.9	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.  
Specs:

Follow EMR restrictions and guidelines.

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>39</b>	<b>54041039-NF</b>	3.7	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines

Follow guidelines for buffers along trail systems.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>44</b>	<b>54041044-Cut</b>	52.0	4131 - Aspen, Oak	Poletimber Well	47 81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Specs: -clearcut-leave 3-10% in area retention (already excluded- see site conditions layer)-include grouse tree sale specification and recommend marking trees to leave

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

Acceptable Regen: -aspen, maple, oak, pine, and fir of medium to high stocking

Other Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

<b>48</b>	<b>54041048-NF</b>	2.1	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>52</b>	<b>54041052-Cut</b>	11.6	42220 - Natural Jack Pine	Poletimber Well	61	51-80	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription -clearcut  
Specs: -leave 3-10% in retention pocket(s) in the interior  
 -cut stumps low, reduce, and/or break up slash  
 -protect the High Country Pathway in the timber sale specifications

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

Acceptable Regen: -pine, aspen, maple, oak, and fir of medium to high stocking  
 -also accept a non-forested cover type

-no follow-up planting if regeneration stocking is low due to small stand size and consider maintaining as low-density trees until surrounding jack pine stand is harvested

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>55</b>	<b>54041055-Cut</b>	12.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	57	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription -clearcut-leave 2-3 white pine and/or white oak per 1-2 acres-protect all trees >26 inches-leave 3-10% in area retention (already excluded along wetland edge- see site conditions layer)-include grouse tree sale specification and recommend marking trees to leave

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

Acceptable Regen: -aspen, maple, oak, pine, and fir of medium to high stocking

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>58</b>	<b>54041058-Cut</b>	47.5	4133 - Aspen, Mixed Pine	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription -clearcut-leave 2-3 white pine and/or white oak per 1-2 acres-protect all trees >26 inches-leave 3-10% in area retention (already excluded along drainageway and gas facility- see site conditions layer)-include grouse tree sale specification and recommend marking trees to leave

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

Acceptable Regen: -aspen, maple, oak, pine, and fir of medium to high stocking

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>64</b>	<b>54041064-Other</b>	10.3	4122 - Oak, Pine	Sawtimber Poor	93	1-50	Other	Other	4122 - Oak, Pine	Two-Aged	No
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Prescription -variance during compartment review to accept low regeneration stocking and current cover type due to extreme browse and do not harvest  
Specs: remaining overstory for YOE 2024

Next Step  
Treatments:

Acceptable -aspen, oak, pine, and maple of medium to high stocking  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2027

<b>65</b>	<b>54041065-NF</b>	1.6	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other  
Specs: agriculture practices.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>71</b>	<b>54041071-Cut</b>	35.2	42110 - Planted Red Pine	Sawtimber Well	73	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription -remove every 4th row and intermediate thin between residual rows adjacent to cut rows  
Specs:  
-mark stand to cut  
-remove low vigor/small crown rp  
-cut red pine over 16 inches where possible in more open areas  
-ensure equipment has at least 11ft in operating space between rows

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>75</b>	<b>54041075-Other</b>	13.7	4311 - Pine, Aspen Mix	Sapling Medium	5	1-50	Other	Other	4311 - Pine, Aspen Mix	Even-Aged	No
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Prescription -variance during compartment review to accept aspen, oak, red maple, and white pine regeneration as acceptable species  
Specs: -acceptable regeneration coverage is not at least 60% using only mixed pine and oak as originally prescribed

Next Step  
Treatments:

Acceptable aspen, oak, red maple, and white pine of medium to high stocking  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>76</b>	<b>54041076-NF</b>	3.5	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other  
Specs: agriculture practices.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>83</b>	<b>54041083-NF</b>	3.8	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other  
Specs: agriculture practices.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>87 54041087-Cut</b>	31.2	42200 - Natural White Pine	Sawtimber Well	107	81-110	Harvest	Group Selection	42201 - Natural White Pine, Mixed Deciduous	Uneven-Aged	No
<p><u>Prescription</u> -group selection (partial stand treatment-see treatment layer) target leaving approximately 60-70% canopy cover</p> <p><u>Specs:</u>                      -mark to cut a 1/4-1/2 acre (120ft-160ft in diameter) gap every acre                      -use a variety of gap sizes                      -only cut aspen or red maple as needed in cut gaps to limit deciduous regeneration competition                      -area retention already left (see site conditions layer)                      -harvesting equipment must avoid damaging adjacent white pine saplings in retained and cut gaps as much as operationally possible sale specs                      -keep treatment at least 100ft away from Green Swamp ERA boundary</p> <p><u>Next Step</u> SitePrep, Scarification; Pesticide, Skidder - Release; SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory); Burn, <u>Treatments:</u> Understory</p> <p><u>Acceptable Regen:</u> -pine of medium to high stocking with minor deciduous associates                      If site is poorly stocked in pine, scarify site when conditions and funding allow. If needed, allow for a longer natural regeneration period and conduct an additional regeneration survey.</p> <p><u>Other Comment:</u> -species of concern may be affected, see stand draft treatment comments for more information</p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>88 54041088-Cut</b>	9.5	4133 - Aspen, Mixed Pine	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u>                      -leave 2-3 white pine and/or white oak per 1-2 acres                      -protect all trees &gt;26 inches                      -leave 3-10% in area retention (already excluded- see site conditions layer)                      -include grouse tree sale specification and recommend marking trees to leave</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -aspen, maple, oak, pine, and fir of medium to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>91 54041091-Cut</b>	17.4	4131 - Aspen, Oak	Sawtimber Well	96	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u>                      -leave 3-10% in area retention (already excluded- see site conditions layer)                      -include grouse tree sale specification and recommend marking trees to leave</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -aspen, maple, oak, pine, and fir of medium to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>98</b>	<b>54041098-Other</b>	8.2	4130 - Aspen	Sapling Medium	5	Immature	Other	Other	4130 - Aspen	Even-Aged	No
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Prescription -variance during compartment review to accept aspen cover type during compartment review  
Specs: -mixed lowland forest with cedar and mixed northern hardwoods objectives were not achieved for the 2 separately prescribed treatments

Next Step  
Treatments:

Acceptable -aspen, fir, pine, oak, and maple  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>101</b>	<b>54041101-Other</b>	15.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	107	81-110	Other	Other	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
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Prescription -conducted walk-through regeneration survey and regeneration is primarily high coverage of ironwood and medium coverage levels of ash,  
Specs: sugar maple, and beech  
 -variance during compartment review to accept the current regeneration mix and other upland deciduous cover type

Next Step  
Treatments:

Acceptable maple, oak, pine, fir  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>107</b>	<b>54041107-Cut</b>	18.5	4319 - Mixed Upland Forest	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription -clearcut  
Specs: -leave all cedar and 2-3 white pine and/or white oak per 1-2 acres  
 -protect all trees >26 inches  
 -leave 3-10% in area retention (already excluded- see site conditions layer)  
 -include grouse tree sale specification and recommend marking trees to leave

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

Acceptable -aspen, maple, oak, pine, and fir of medium to high stocking  
Regen: -also accept a cover type of mixed upland deciduous with conifer

Other -species of concern may be affected, see stand draft treatment comments for more information  
Comment:

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
113 54041113-Cut	32.2	4123 - Red Oak	Sawtimber Well	96	141-170	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut  <u>Specs:</u> -leave 3-10% in area retention (already excluded- see site conditions layer)                      -protect High Country Pathway in sale specifications                      -leave slash heavy to protect regeneration  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> -maple, aspen, oak, pine, and fir of low to high stocking  <u>Regen:</u> -other acceptable cover types are red maple, conifer and aspen  <u>Other</u> -special concerns within the area, see draft treatment notes for more information  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
128 54041128-NF	3.1	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.  <u>Specs:</u> Follow EMR restrictions and guidelines.  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: **403.6**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 41  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
389	313	66	11
92	0	0	92
74	74	0	0
151	151	0	0
25	25	0	1
125	50	0	75
36	25	0	12
41	19	0	22
9	9	0	0
119	31	81	7
49	49	0	0
24	24	0	0
225	42	177	6
59	59	0	0
130	122	0	8
21	13	0	8
105	67	35	3
12	12	0	0
61	50	9	2
1,748	1,134	367	247
	65%	21%	14%

### Dominant Site Conditions

	Dominant Site Conditions												
	2I	5B	5C	1C	2G	2H	3B	3J	5A	5E			
Aspen	66	0			0								10
Cedar				5	62				26				
Herbaceous Openland													0
Jack Pine					0								
Low-Density Trees													1
Lowland Conifers					75								
Lowland Shrub					12								
Lowland Spruce/Fir					22								0
Marsh													
Mixed Upland Deciduous		81	0					6					1
Natural Mixed Pines													
Northern Hardwood													
Oak		48	129	2	0								4
Planted Mixed Pines													
Red Pine							8						0
Upland Conifers						8							
Upland Mixed Forest	19		16		0								2
Urban													
White Pine		9		0									2
<b>Total Forested Acres</b>	<b>84</b>	<b>138</b>	<b>145</b>	8	171	8	8	6	26	20			
<b>Relative Percent</b>													

*\*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	3B: Threatened, endangered, and special concern species	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 41  
Year of Entry: 2024

2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 87							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -area retention for stand 58							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -area retention for stand 88 in compartment 40							



## Report 4 – Site Conditions

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Darrick Coy : Examiner

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9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 86 to the adjacent east							
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	1C: Other dept or div proc/practices	5	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Green Swamp ERA and Forest Habitat Core Interior HCVA's. Cold water Stream.							

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16	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Available</b>	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 55							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 88							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	62	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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28	Unavailable	5A: Not able to obtain desirable regeneration	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Unavailable	5A: Not able to obtain desirable regeneration	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Available	5B: Maintain for regeneration purposes	81	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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Year of Entry: 2024

34	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	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>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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40	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Unavailable</b>	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Unavailable</b>	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 107							
43	<b>Available</b>	2I: Survey needed	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	6	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	<b>Available</b>	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
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47	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
48	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
49	<b>Available</b>	<b>2I: Survey needed</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
50	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -area retention for stand 44							
51	<b>Available</b>	<b>2I: Survey needed</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
52	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**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
	Visual Management Area		<b>SCA Removal</b>	13
<b>Comments</b>				
This is an aspen stand that was clearcut 47 years ago. Remove this area from SCA area to the adjacent west..				
<b>54041016</b>	Habitat Area	Other Habitat Area	<b>SCA Removal</b>	177
<b>Comments</b>				
There are no comments tied to this SCA. Maintain area as HCVA Massassauga Managed Land but remove from SCA layer..				
<b>54041033</b>	Habitat Area	Other Habitat Area	<b>SCA</b>	96
<b>Comments</b>				
Soil productivity, stand structure, existing mid-late successional growth stages, recreational, scenic, and intrinsic values are being emphasized for long term management. The stands have had passive management in the past and will continue.				
<b>54041041</b>	Habitat Area	Other Habitat Area	<b>SCA Removal</b>	84
<b>Comments</b>				
This area is not old growth and should not have a special conservation area designation. The species composition is rather typical and the stand canopy structure originated from a large clearcut. This stand is not scenic, and forest health is poor. Successional stage changes mentioned were rarely seen. Pockets of advanced white pine were found to the southern edge of the stand. These areas are still being protected for regeneration purposes.				
<b>54041042</b>	Habitat Area	Other Habitat Area	<b>SCA Removal</b>	44
<b>Comments</b>				
This stand was species thinned in 8/14/97 removing all aspen and red maple. This is a typical oak stand that has been managed. Remove SCA designation.				
<b>54041061</b>	Habitat Area	Other Habitat Area	<b>SCA Removal</b>	83
<b>Comments</b>				
This area is not old growth and should not have a special conservation area designation. The species composition is rather typical and the stand canopy structure originated from a large clearcut. This stand is not scenic, and forest health is poor. Successional stage changes mentioned were rarely seen. Pockets of advanced white pine were found to the southern edge of the stand. These areas are still being protected for regeneration purposes.				





**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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
1	6124 - Lowland Spruce-Fir	Poletimber Medium	7.8	73	51-80	N/A	-muck-high moss cover, spongy, not terrible to walk through though																																																																
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2	3102 - Grass	Nonstocked	4.5			Managed Opening																																																																	
3	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	4.6	110	51-80	N/A	-more cedar and standing water in this stand vs spruce fire stand to north-cedar were not cut																																																																
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4	3102 - Grass	Nonstocked	3.0			Managed Opening																																																																	
5	42120 - Planted Jack Pine	Poletimber Well	18.8	39	51-80	N/A	-cut record for 2/11/75- 18 acres of jp-1983 planting record-1/3rd live crown, healthy																																																																
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6	6229 - Mixed lowland shrub	Nonstocked	11.8		Immature	No	Dead cedar and spruce snags																																																																
7	4319 - Mixed Upland Forest	Poletimber Well	12.8	67	51-80	N/A	-lower stocked stand, didn't fully regenerate well from last cut -good wildlife stand -not that great of stand for timber production due to open conditions																																																																
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8	42110 - Planted Red Pine	Poletimber Well	12.4	39	111-140	N/A	-cut record for 2/11/75- 18 acres of jp to adjacent west -1983 planting record -120, 170, 180, 150, 170, 140, 150, 160, 150, 160, 90, 110 -120, 90, 160, 180, 90, 130, 110 -overall BA is 138, 1/3rd live crown in north half, 1/2-1/3rd live crown in south half																																																											
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9	4124 - Red with White Oak	Sawtimber Poor	5.0	96	1-50	N/A	-stand has at least 50% coverage of aspen, forested and it is still oak -was cut in 2017, check lineage for details																																																											
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14	4136 - Aspen, Mixed Conifer	Poletimber Well	84.4	35	51-80	N/A	-past treatment- clearcut, cut all but rp-acres cut-113-completion date-9/25/87-sale number- 54-063-84-01-leave trees- wp-cut volume (cds)-1383 ma, 256 ro, 166 mhwd, 296 ms, 56 pb, 60 m pine-wp must have been not quite merchantable bc east has quite a bit of larger wp																																																											
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15	6124 - Lowland Spruce-Fir	Poletimber Well	28.5	47	81-110	N/A	-mostly small spruce fir with occasional log cedar mixed in-they cut somewhat into this stand in the past along transition edges, spruce are small																																																							
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16	6120 - Lowland Cedar	Poletimber Well	61.5	111	141-170	N/A	-not too terrible to walk through, mostly open in subcanopy -some blow down and pockets of thick balsam fir																																																							
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19	6220 - Alder/willow	Nonstocked	2.6		Immature	No	-inclusions of tag alder pockets-more wp left in this stand vs surrounding area																																																							
20	3302 - Low Density Conifer Trees	Nonstocked	18.2	0	Unspecified	42110 - Planted Red Pine	Roller Chopping completed 8/19/2022. The harvest of this stand was completed in August of 2017. -NW corner blocked in by roads is an aspen stand -the rest of the stand is 25-35% coverage of 3-4ft tall scattered black cherry and other deciduous																																																							
21	3102 - Grass	Nonstocked	3.3			Managed Opening	spotted knapp weed 10-40&																																																							



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<b>22</b>	4310 - Pine, Oak Mix	Sawtimber Medium	16.0	94	51-80	N/A	-94 year old aspen along the property line and along east edge of stand -other aspen in stand was cut 35 years ago -oak are of poor timber value, very open grown, white pine are 50-70 yrs old and healthy -good stand for regen purposes																																																								
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<b>26</b>	42110 - Planted Red Pine	Sapling Well	39.0	11	Immature	N/A	FTP: 54-913 Species: RP Completion: 5-14-2012 Stocking Yr 1: 820 R320 O/J/C Stocking Yr 3: 1,019 R161 O  -past treatment- clearcut -acres cut-39 -completion date- 2011 -sale number- 54-041-09-01 -leave trees- none -cut volume (cvs)-  -past treatment-thinning, all jp and aspen -acres cut-39 -completion date- 6/13/94 -sale number- 54-012-94-01 -leave trees- left all rp and oak -cut volume (cvs)- 1 aspen, 258 jp																																																								
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Sub-Canopy Species	Density	Avg. Height	Size																																																												
Black Cherry	Medium	5 - 10 feet	Sapling																																																												
<b>27</b>	3102 - Grass	Nonstocked	1.5																																																												
<b>28</b>	3102 - Grass	Nonstocked	2.4			No																																																									
<b>29</b>	3102 - Grass	Nonstocked	1.5																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**30**      6127 - Lowland Pine      Poletimber Medium      10.0      45      51-80      N/A      -this stand appears to have been cut with aspen stand to SE, very similar age-not too wet but lowland tag alder is common

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Pole	7		Red Maple	Medium	Variable	Sapling
Quaking Aspen	5	Log/Pole	11		Black Spruce	Medium	Variable	Sapling
White Pine	60	Pole/Sapling	7	45	Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole/Log	9		White Pine	Medium	Variable	Sapling
Black Spruce	15	Pole/Sapling	7					

**31**      4131 - Aspen, Oak      Sawtimber Well      7.1      83      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Log/Pole	11		Red Oak	Low	Variable	Sapling
Red Maple	10	Pole/Log	9		White Oak	Low	Variable	Sapling
Red Oak	15	Log/Pole/XLog	13		White Pine	High	Variable	Sapling
Bigtooth Aspen	55	Log/Pole	11	83	Red Maple	Medium	Variable	Sapling
White Oak	7	Log/Pole	12					
White Pine	3	XLog/Log	21					
Red Pine	5	Log/XLog	15					

**32**      3102 - Grass      Nonstocked      1.0                No

**33**      4191 - Mixed Upland Deciduous with Conifer      Sawtimber Well      81.4      99      111-140      N/A

-High Country Pathway runs through this stand  
-scenic stand  
-cut record for 8/29/74 in east 1/3rd NWSE sec 8  
-parvvb site  
-legacy wp and a few aspen cattered throughout  
-aspen are significantly rotten  
-advanced wp is mostly 5-20ft tall and close to 70% coverage  
-less adv wp coverage in west 1/3rd of stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Red Oak	35	Log/Pole/XLog	13	99	White Pine	High	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	13		Red Oak	Low	Variable	Sapling
White Pine	13	XLog/Log	19					
Red Pine	12	Log/XLog	17					
Quaking Aspen	10	Log/Pole	12					

**34**      4131 - Aspen, Oak      Poletimber Well      13.7      57      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	45	Pole/Log	8	57	White Pine	Medium	Variable	Sapling
Red Maple	10	Pole	7		Red Maple	High	Variable	Sapling
White Oak	5	Log/Pole	13					
Red Oak	35	Log/Pole	13	97				
White Pine	5	Pole	7					

**35**      3102 - Grass      Nonstocked      1.9



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>36</b>	4124 - Red with White Oak	Sawtimber Poor	12.9	85	1-50	N/A	-was cut in 2017, check lineage for details -all overstory wp is in east 1/4 to the NE -some yellow painted aspen were left, maybe 5-10 trees -browse high on everything but pine and aspen																																																
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<b>37</b>	3102 - Grass	Nonstocked	0.9																																																				
<b>38</b>	3102 - Grass	Nonstocked	1.3																																																				
<b>39</b>	3102 - Grass	Nonstocked	3.7			Managed Opening	-might have create opening from harvest, same acreage -past treatment- clearcut, all aspen, no oak or pine -acres cut-3.5, swne sec 18 -completion date- 1/13/92 -sale number- 54-009-93-01 -leave trees- oak and pine -cut volume (cde)-124 bta																																																
<b>40</b>	3102 - Grass	Nonstocked	1.8																																																				
<b>41</b>	42200 - Natural White Pine	Poletimber Well	6.8	49	51-80	N/A	-larger diameter wp due to more open grown conditions -west wp pocket has much larger diameter pine of old age, treated as an inclusion 46 yrs 53 yrs																																																
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<b>42</b>	4124 - Red with White Oak	Sawtimber Well	46.1	97	81-110	N/A	-past treatment- thinning, species select -acres cut-93 (stands 42 unit 2) and 54 and 85 (unit 1)) -completion date- 8/14/97 -sale number- 54-024-94-01 -leave trees- all juneberry, oak, cherry, and white pine -cut volume (cde)-508 rp, 47 rm, 11 pb, 160 qa, 857 bta, 379 jp -parvha/vvb site west 1/4, vvb/vha to east, slightly lower site quality vs adj stand to north, more white oak and smaller diameter red oak -mix of 50-80 ba with 110-140 for average of 80-110, some pockets of pure oak over 110 ba																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>43</b>	4319 - Mixed Upland Forest	Sawtimber Well	14.7	98	51-80	N/A	-much older rp and wp along north half and younger to sw, wp ages are mixed, appears 2 aged, some 54 and 98 yr old mixed in stand, kept as same stand due to not having a good defined line of separation -oak in east half -looks like the rm, fir, and some of the pine were cut out 54 years ago -species coverages and sizes difficult to determine vs other stands -trees are healthy and have good crown vigor		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		10	Pole	7	54	Cherry (spp.)	Low	< 5 feet	Sapling
Northern White Cedar		4	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Red Maple		10	Pole/Sapling	7	54	Northern White Cedar	High	>20 feet	Pole
Red Oak		31	Log/XLog	14	98	White Pine	Medium	Variable	Sapling
White Pine		20	XLog/Log/Pole	22	98				
Quaking Aspen		10	Pole/Log	8	54				
Red Pine		10	XLog/Log	18	98				
Jack Pine		5	Pole	8	54				
<b>44</b>	4131 - Aspen, Oak	Poletimber Well	54.4	47	81-110	N/A	-1971-73 cutting record, 1975 cut record mostly for north half but south is of very similar are and composition so it was merged, averaged years- white oak were not cut-more oak in south 1/3rd, treated as an inclusion-aspen are healthy, minimal rot		
<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 Oak		5	Log	14		Red Oak	Low	Variable	Sapling
Red Oak		20	Pole/Log	8		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		52	Pole	8	47	Red Maple	High	>20 feet	Sapling
Red Pine		3	Log	14					
Quaking Aspen		10	Pole/Sapling	7					
Red Maple		10	Pole/Sapling	7					
<b>45</b>	110 - Low Intensity Urban	Nonstocked	2.8						
<b>46</b>	3102 - Grass	Nonstocked	1.7						
<b>47</b>	42120 - Planted Jack Pine	Sapling Well	62.1	26	1-50	N/A	C54-0636 planting complete 05/96 -past treatment- clearcut -acres cut-60 -completion date- 11/2/94 -sale number- 54-025-94-01 -leave trees- all oak -cut volume (cde)-33 rp, 705 jp, 19 bta		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		5	Log	12		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen		2	Sapling/Pole	4					
White Oak		5	Log	12					
Jack Pine		88	Sapling/Pole	4	26				
<b>48</b>	3102 - Grass	Nonstocked	2.1			No	scatter xll rp and wp		
<b>49</b>	6229 - Mixed lowland shrub	Nonstocked	2.4			No			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
<b>50</b>	42220 - Natural Jack Pine	Poletimber Well	27.1	47	51-80	N/A	Stand buffers refinement facility.-cut record for 8/29/74-cored 48, 62, and 43 yrs, kept cutting record age																																																																										
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<b>52</b>	42220 - Natural Jack Pine	Poletimber Well	11.4	61	51-80	N/A	-1950-57 cut record range -cored 58, kept 61 from previous inventory -some porcupine damage and mortality -good spacing and crowns, semi-open in places -no visible budworm damage yet -3-4 stick jp																																																																										
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<b>53</b>	623 - Emergent Wetland	Nonstocked	9.4			No	-past inventory mentioned phragmites presence to stand -marsh -prag arounds perimeter, could be natural, 1-2 acres to treat, 7 ft tall																																																																										
<b>54</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Well	36.1	24	1-50	N/A	-past treatment- clearcut-acres cut-93 (stands 42 unit 2) and 54 and 85 (unit 1))-completion date- 8/14/97-sale number- 54-024-94-01-leave trees- all junberry, oak, cherry, and white pine-cut volume (cde)-508 rp, 47 rm, 11 pb, 160 qa, 857 bta, 379 jp-species rich stand with high variability in structure -most jp in the east half-overstory log species in middle, treated as inclusion due to the high amount of saplings and cut record																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**55** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 13.3 57 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/XLog	16	77	Red Oak	Low	Variable	Sapling
Red Pine	15	Log/XLog	15		White Pine	Medium	Variable	Sapling
Quaking Aspen	27	Pole/Log	9	57	Black Cherry	Medium	5 - 10 feet	Sapling
Red Oak	5	Log/XLog	14		Red Maple	High	Variable	Sapling
White Oak	5	Log/XLog	14					
Red Maple	23	Pole	8					
Bigtooth Aspen	10	Pole/Log	9	57				

**56** 42220 - Natural Jack Pine Poletimber Well 24.7 49 51-80 N/A -deciduous pocket in north tip is an inclusion

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log	12		Cherry (spp.)	Medium	5 - 10 feet	Sapling
White Oak	5	Log	12		White Pine	Low	Variable	Sapling
Bigtooth Aspen	10	Pole/Log	8					
Jack Pine	75	Pole/Log	8	49				
Red Pine	5	Log	13					

**57** 3102 - Grass Nonstocked 0.9 -sweet fern to n and w

**58** 4133 - Aspen, Mixed Pine Poletimber Well 51.6 49 81-110 N/A -cored 46 yrs, 53 yrs-1973 cut record

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	12	Pole/Log/XLog	9		White Oak	Medium	Variable	Sapling
Red Pine	3	Log	14		White Pine	Medium	Variable	Sapling
White Oak	5	Log/XLog/Pole	14		Cherry (spp.)	Low	5 - 10 feet	Sapling
Jack Pine	7	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Red Oak	7	Log/Pole/XLog	13					
Red Maple	20	Pole/Sapling	6					
Quaking Aspen	17	Pole	8	50				
Bigtooth Aspen	29	Pole	8	49				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>59</b>	42140 - Planted Mixed Pine	Sapling Well	59.4	11	Immature	N/A	-quite a bit of natural jack pine volunteers, mixed pine, healthyFTP: 54-914 Species: RP Completion: 5-14-2012 Stocking Yr 1: 619 J/O/C Stocking Yr 2: 894 R363 J  -past treatment- clearcut -acres cut-60 -completion date- 2011 -sale number- 54-041-09-01 -leave trees- none -cut volume (cvs)-  -past treatment- thinned, cut all jp and aspen -acres cut-60 -completion date- 1/15/88 -sale number- 54-065-84-01 -leave trees- rp and oak -cut volume (cvs)- 329 jp, 6 aspen
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	50	Sapling	2	11
Red Oak	15	Sapling	2	
Jack Pine	35	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	5 - 10 feet	Sapling

<b>60</b>	3302 - Low Density Conifer Trees	Nonstocked	2.3			No	
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<b>61</b>	4123 - Red Oak	Sawtimber Well	59.7	96	81-110	N/A	-high country pathway runs through stand-cored 3 trees and stand is 96-more white oak and advanced wp in north half and 2 tree heights north of county road-better crown development and not as overstocked as adjacent oak stand to the east
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log	14	
Bigtooth Aspen	5	Log/Pole	11	
Red Maple	15	Pole/Log	8	
Red Oak	65	Log/Pole	13	96
White Oak	10	Log/Pole	13	
White Pine	3	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Oak	Low	Variable	Sapling
Red Maple	High	>20 feet	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub

<b>62</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	6.4	88	51-80	N/A	-south half aspen is younger than north -stand is on sidehill down to lowland -pathway runs through stand -leave for rec and bmp
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Log	8	
Bigtooth Aspen	30	Pole/Log	9	63
Black/Red (Hybrid) Oak	35	Log	13	88
White Oak	15	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**63** 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 6.6 42 51-80 N/A  
-planting trenches observed in ne and sw-boles are large for age-cut record for 2/11/75- 18 acres of jp  
-planted in 1982

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	60	Pole/Log	8	42	Jack Pine	Low	Variable	Sapling
Quaking Aspen	25	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	13					
Red Maple	5	Pole/Sapling	7					
White Pine	5	Pole/Log	9					

**64** 4122 - Oak, Pine Sawtimber Poor 10.3 93 1-50 N/A  
-extreme browse on all deciduous regeneration  
-seedlings are 1-2ft tall  
-4/1/22 walk-through regeneration survey- most deciduous regeneration is being heavily browsed and being kept under 3ft in height, very poor form from browse  
-composition is 40% bta, 20% wp, 20% wo, 10% bch, and 10% rm

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	40	Log	12	93	White Pine	Medium	< 5 feet	Sapling
White Pine	20	Log/Pole	10		Bigtooth Aspen	Medium	< 5 feet	Sapling
Red Pine	20	Pole/Log	8		Beech	Low	< 5 feet	Sapling
Red Oak	20	Log/Pole	12		Black Cherry	Medium	< 5 feet	Sapling
					White Oak	Medium	< 5 feet	Sapling

**65** 310 - Herbaceous Openland Nonstocked 1.6 Managed Opening

**66** 3102 - Grass Nonstocked 2.1

**67** 42110 - Planted Red Pine Sawtimber Well 5.2 73 111-140 N/A Left as retention for surrounding stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Log	14		Jack Pine	Low	< 5 feet	Sapling
Red Pine	95	Log/Pole	13	73	Sweet Fern	High	< 5 feet	Tall Shrub
					Red Pine	Low	< 5 feet	Sapling

**68** 6122 - Black Spruce Poletimber Medium 14.8 53 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	15	Pole/Sapling	7		Red Maple	Medium	Variable	Sapling
Black Spruce	50	Pole/Sapling	7	53	Black Ash	Medium	Variable	Sapling
White Pine	5	Log	15					
Red Maple	10	Pole/Sapling	7	55				
Balsam Poplar	15	Pole/Sapling	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>69</b>	42200 - Natural White Pine	Sawtimber Well	0.0	98	81-110	N/A	-past treatment- selection (sesw, s1/2se, sec 18- only 100-400ft into stand along the rd in stand 61 from well to east end of stand 75 and most of stand 87 was cut), orange painted red pine, white pine, red oak, and white oak and unmarked all aspen, birch, red maple, jp, fir, and spruce-acres cut-40-completion date- 6/25/96-sale number- 54-032-94-01-leave trees- other trees-cut volume (cde)-53 wp, 28 rp, 85 m pine, 12 mo, 27 m aspen, 9 m softwood, 41 m hwd-good site and growth parvvb-scenic along rd			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak	5	Log	13		White Oak	Medium	Variable	Sapling		
Red Pine	15	Log/XLog	16		Balsam Fir	Medium	Variable	Sapling		
Bigtooth Aspen	5	Pole/Log	9		White Pine	High	Variable	Sapling		
White Pine	65	Log/XLog	16	98	Red Maple	Medium	Variable	Sapling		
Red Oak	10	Log/XLog	14							
<b>70</b>	42210 - Natural Red Pine	Sawtimber Well	10.2	77	81-110	N/A	-past treatment- thinning, all aspen, red maple, and jp-acres cut- 28 (north of rd only, in part)-completion date- 3/27/06-sale number- 54-006-04-01-leave trees- other species-cut volume (cde)-96 jp, 234 aspen, 40 mhwd-high red maple north of rd from past thinning- portions in north could have been planted but most appears to be natural, variable diameters -a few rp of much older age and diameter mixed in, some potential legacy trees			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak	5	Log	14		Red Maple	High	10 - 20 feet	Sapling		
White Pine	10	Log/Pole/XLog	13		Red Oak	Low	Variable	Seeding		
White Oak	15	Log	12		White Oak	Low	Variable	Sapling		
Red Pine	60	Log/Pole/XLog	16	77	Black Cherry	Low	5 - 10 feet	Sapling		
Red Maple	10	Pole	7		White Pine	Medium	Variable	Sapling		
<b>71</b>	42110 - Planted Red Pine	Sawtimber Well	35.5	73	141-170	N/A	Surrounding stands have all been treated recently. -1938 planting record, seems younger -cored 67, 72, 83 -stand is younger -variable success in planting, probably early mortality losses -1/4-1/5 live crown -140, 170, 170, 120, 120, 180, 160, 150, 150, 210, 140, 110, 170, 170, 170, 110 -150 BA -60-75ft tall			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine	90	Log/Pole	13	73	Blueberry/Bilberry/Cranberry	Full	< 5 feet	Tall Shrub		
White Oak	5	Log	12		Cherry (spp.)	Low	Variable	Sapling		
Northern Pin Oak	5	Log/Pole	12		White Pine	Low	Variable	Sapling		
					Jack Pine	Low	10 - 20 feet	Sapling		
<b>72</b>	4130 - Aspen	Sapling Well	11.4	16	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak	3	Log	14		Black Cherry	Medium	5 - 10 feet	Sapling		
Red Oak	5	Sapling	2							
White Oak	3	Sapling	1							
Quaking Aspen	15	Sapling	2	16						
White Pine	2	Sapling	2							
Bigtooth Aspen	54	Sapling	2	16						
Red Pine	3	Log	14							
Red Maple	15	Sapling	1							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
73	4124 - Red with White Oak	Sawtimber Poor	5.3	95	1-50	N/A	-40-50% wp seedlings, with 20-30% aspen, 10-20% bchry; extreme rm browse, low wp and aspen browsing																																														
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74	3102 - Grass	Nonstocked	1.3																																																		
75	4311 - Pine, Aspen Mix	Sapling Medium	14.5	5	1-50	N/A	-survey regen during leaf-off -harvest BA is 20-30 -conducted QD plot regen survey on 4/1/22 -10% of plots stocked with acceptable species over 60% composition -51% white pine and 49% aspen in regeneration plot survey -high browse on white oak and red maple																																														
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76	3102 - Grass	Nonstocked	3.5			Managed Opening																																															
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78	110 - Low Intensity Urban	Nonstocked	1.9																																																		
79	122 - Road/Parking Lot	Nonstocked	6.3			No																																															
80	4110 - Sugar Maple Association	Sapling Poor	4.9	47	1-50	N/A	-forested, similar age as north aspen																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>81</b>	6120 - Lowland Cedar	Poletimber Well	5.1	117	141-170	N/A	- weak cedar crowns, sw and s has much less cedar, more spruce, and more alder																																														
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<b>82</b>	3102 - Grass	Nonstocked	1.6																																																		
<b>83</b>	3102 - Grass	Nonstocked	3.8			Managed Opening	cherry poles and red and white oak oak mast trees, managed																																														
<b>84</b>	42290 - Natural Mixed Pine	Poletimber Medium	2.2	53	51-80	N/A	-advanced wp under scattered oak																																														
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<b>85</b>	4124 - Red with White Oak	Sawtimber Medium	12.2	97	51-80	N/A	-past treatment- clearcut-acres cut-93 (stands 42 unit 2) and 54 and 85 (unit 1))-completion date- 8/14/97-sale number- 54-024-94-01-leave trees- all juneberry, oak, cherry, and white pine-cut volume (cde)-508 rp, 47 rm, 11 pb, 160 qa, 857 bta, 379 jp-excellent mix of desirable adv regen																																														
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<b>86</b>	4131 - Aspen, Oak	Sapling Medium	17.3	4	1-50	N/A	conducted regeneration survey on 01/12/2022 Over 65% of the treated area has come back to fully stocked aspen. The portion to the NE that is E of Roth Rd did not regenerate as well but should fill in over time with white pine. There is some aspen regeneration here as well, but it is in small pockets.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**87** 42200 - Natural White Pine Sawtimber Well 42.2 107 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	1	Pole	8		Balsam Fir	Medium	Variable	Sapling
Red Oak	6	XLog	24		White Pine	High	Variable	Sapling
White Oak	9	XLog/Log	20		Red Maple	Medium	Variable	Sapling
Red Pine	10	Log/XLog	13		White Oak	Medium	Variable	Sapling
Bigtooth Aspen	4	Log/Pole	11					
Red Maple	3	Pole	8					
White Pine	67	XLog/Log	18	107				

**88** 4133 - Aspen, Mixed Pine Poletimber Well 10.9 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	15		White Oak	Low	Variable	Seeding
Bigtooth Aspen	55	Pole/Log	8	65	White Pine	High	Variable	Sapling
White Pine	10	Log/XLog	17		Balsam Fir	Medium	Variable	Sapling
Jack Pine	15	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Red Maple	10	Pole	7					

**89** 4133 - Aspen, Mixed Pine Sapling Well 9.9 4 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log	14	99	Black Cherry	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	45	Sapling	1	4				
White Pine	25	Sapling	1					
White Pine	10	XLog/Log	18	99				
Red Oak	15	XLog/Log	19					

Conducted walk-through regeneration survey on 01/12/2022. Treated area has come back to fully stocked aspen with some pockets of adv white pine. Overstory oak the cover type objective of oak and aspen is considered successful.

**90** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 2.7 92 51-80 N/A -mast oak

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	40	Log/XLog	15	92	White Pine	Medium	Variable	Sapling
Jack Pine	20	Pole/Log	9		Jack Pine	Low	Variable	Sapling
White Oak	15	Log	14					
Red Maple	10	Pole/Log	8					
White Pine	15	Pole/Log	9					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>91</b>	4131 - Aspen, Oak	Sawtimber Well	18.6	96	111-140	N/A	Pathway present. -past treatment- selection (sesw, s1/2se, sec 18- only 100-400ft along the rd and most of stand 87), orange painted red pine, white pine, red oak, and white oak and unmarked all aspen, birch, red maple, jp, fir, and spruce -acres cut-40 -completion date- 6/25/96 -sale number- 54-032-94-01 -leave trees- other trees -cut volume (cds)-53 wp, 28 rp, 85 m pine, 12 mo, 27 m aspen, 9 m softwood, 41 m hwd  -cored 3 trees and stand is 94		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Log	8		Red Oak	Low	Variable	Sapling
Red Oak		40	Log/Pole	11	96	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak		5	Log/Pole	12		Red Maple	High	>20 feet	Sapling
Bigtooth Aspen		45	Log/Pole	13	96	White Pine	Low	Variable	Sapling
<b>92</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	11.8	34	51-80	N/A	-lots of blow down and canopy giving out to mostly balsam fir in many places, especially in middle -more tamarack in s half -cedar thick on northwest side of stand by upland -older cedar and other conifer pockets throughout -tag alder in southeast corner near packer creek		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		35	Pole/Sapling	5	34	Black Ash	Medium	Variable	Sapling
Tamarack		25	Pole/Sapling	6	34	Red Maple	Medium	Variable	Sapling
Northern White Cedar		20	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		15	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
Paper Birch		5	Pole	8					
<b>93</b>	4319 - Mixed Upland Forest	Sawtimber Medium	3.0	46	51-80	N/A	-mixed ages, species, and diameters		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		25	Log/XLog	14	96	White Oak	Low	Variable	Sapling
Balsam Fir		35	Pole	8	46	Black Cherry	Medium	5 - 10 feet	Tall Shrub
White Pine		15	Log/Pole/XLog	13		White Pine	Medium	Variable	Sapling
Paper Birch		5	Log	11		Balsam Fir	Medium	Variable	Sapling
White Oak		20	Pole/Log	9					
<b>94</b>	6220 - Alder/willow	Nonstocked	16.0			No			
<b>95</b>	4130 - Aspen	Sawtimber Well	3.0	61	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Red Oak		10	Log/Pole	13		White Pine	Low	Variable	Sapling
Bigtooth Aspen		80	Log/Pole	10	61	Black Spruce	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**96** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 34.1 106 141-170 N/A -saturated soils too wet  
-some higher ground that is not too wet to east  
-most aspen show significant rot

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log	13		Balsam Fir	Medium	Variable	Sapling
Tamarack	10	Pole/Log	9		Black Ash	Medium	Variable	Sapling
Paper Birch	5	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Balsam Fir	10	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	35	Pole/Log	9	106				
Black Spruce	20	Pole	8					
Red Maple	10	Pole/Log	9					

**97** 4119 - Mixed Northern Hardwoods Sawtimber Well 1.4 96 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	12	Pole	7		Balsam Fir	High	Variable	Sapling
Red Oak	12	Log	14		Red Maple	High	Variable	Sapling
Yellow Birch	6	Log	10					
Sugar Maple	24	Pole/Log	8					
Red Maple	34	Log/Pole	12	96				
Bigtooth Aspen	12	Log/Pole	12					

**98** 4130 - Aspen Sapling Medium 8.2 5 Immature N/A sale closed summer 2015- check lineage for details

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	1	5
Balsam Fir	10	Sapling	1	
Red Maple	10	Sapling	1	

**99** 3303 - Mixed Low Density Trees Nonstocked 3.9 0 No

**100** 4111 - S.Maple, Hard Mast Association Poletimber Well 17.5 90 51-80 N/A -seeps present  
-sale closed summer 2015- check lineage for details

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log/Pole	12	90	Beech	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	8		Sugar Maple	Medium	>20 feet	Sapling
Basswood	25	Log	14		Ironwood	Low	5 - 10 feet	Sapling
Paper Birch	7	Pole/Log	8		Red Oak	Low	< 5 feet	Seeding
Red Pine	3	Log/Pole	11					
Red Oak	15	Log	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**101** 4199 - Other Mixed Upland Deciduous Sawtimber Well 15.5 107 81-110 N/A sale closed summer 2015- check lineage for details

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	34	Log/Pole	12		Beech	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	8		Paper Birch	Low	>20 feet	Pole
Basswood	16	Log	12		Hemlock	Low	10 - 20 feet	Pole
Red Oak	45	Log	16	107	Ironwood	High	5 - 10 feet	Sapling
					White Ash	Medium	5 - 10 feet	Sapling
					Striped Maple	Medium	Variable	Sapling
					Sugar Maple	Medium	10 - 20 feet	Sapling

**102** 3102 - Grass Nonstocked 0.7

**103** 3104 - Degraded Nonstocked 0.9

**104** 3104 - Degraded Nonstocked 1.2

**105** 3102 - Grass Nonstocked 1.4

**106** 3303 - Mixed Low Density Trees Nonstocked 1.1 0 No

**107** 4319 - Mixed Upland Forest Poletimber Well 20.3 57 81-110 N/A -scattered pine and oak that were not harvested  
-some minor inclusions of older timber included to the south  
-aspen are healthy, minimal rot

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log	14		Balsam Fir	High	Variable	Sapling
Red Maple	19	Pole/Sap/Log	7		Red Maple	Medium	Variable	Sapling
Quaking Aspen	30	Pole	8	57				
Red Pine	5	XLog/Log	19					
Balsam Fir	26	Pole	8					
Northern White Cedar	5	Pole	7					
White Pine	5	XLog/Log	20					
Bigtooth Aspen	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>108</b>	42200 - Natural White Pine	Poletimber Well	4.1	47	111-140	N/A	Stand buffers refinement facility.-cut record for 8/29/74, seems a bit older-nice windbreak for gas facility-cored 52 years-a few legacy wp scattered around in stand																																																				
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<b>110</b>	122 - Road/Parking Lot	Nonstocked	1.2	0		No																																																					
<b>111</b>	6124 - Lowland Spruce-Fir	Poletimber Well	7.3	47	81-110	N/A	-looks like they left the cedar																																																				
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<b>112</b>	6120 - Lowland Cedar	Poletimber Well	6.4	111	201+	N/A	- cedar on more upland soil, better quality and tpa -cored similar age, left previous age -high amount of deer tracks in stand during winter																																																				
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<b>113</b>	4123 - Red Oak	Sawtimber Well	36.7	96	141-170	N/A	-QD residual BA is 148 -Regen plot survey data shows sub-canopy is moderately stocked in white pine regeneration over 6 inches -High Country Pathway runs through this stand																																																														
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<b>114</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.6	44	51-80	N/A	-north half and south 100-200 ft were previously clearcut -some areas along in the middle and south near the tag alder stand were not cut -fast growth in tamarack -cedar in the southern end -tamarack in middle to north																																																														
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<b>115</b>	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	4.5	54	51-80	N/A	-small upland w lowland patch-looks like they cut in here too																																																														
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<b>116</b>	42200 - Natural White Pine	Sawtimber Well	7.7	58	81-110	N/A	-past treatment- selection (sesw, s1/2se, sec 18- only 100-400ft into stand along the rd in stand 61 from well to east end of stand 75 and most of stand 87 was cut), orange painted red pine, white pine, red oak, and white oak and unmarked all aspen, birch, red maple, jp, fir, and spruce -acres cut-40 -completion date- 6/25/96 -sale number- 54-032-94-01 -leave trees- other trees -cut volume (cdfs)-53 wp, 28 rp, 85 m pine, 12 mo, 27 m aspen, 9 m softwood, 41 m hwd -good site and growth parvvb -scenic along rd																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>117</b>	4123 - Red Oak	Sawtimber Well	37.1	96	111-140	N/A	-high country pathway runs through stand -residual BA average is 116 based of 13 plots
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	61	Log/Pole	11	96	White Pine	Medium	Variable	Sapling
Bigtooth Aspen	15	Log/Pole	11		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Log/Pole	12		Red Oak	Low	Variable	Sapling
White Pine	2	Log	13		Red Maple	High	>20 feet	Sapling
Red Pine	2	Log	14					
Red Maple	15	Pole	7					

<b>118</b>	4319 - Mixed Upland Forest	Poletimber Well	10.7	47	51-80	N/A	-looks like some or all of ro, wp, and rp were not cut -more fir and aspen in south
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	26	Pole/Sapling	7	47	White Pine	Medium	Variable	Sapling
Black Spruce	7	Pole/Sapling	7		Cherry (spp.)	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole/Sapling	7		Black Spruce	Low	Variable	Sapling
Quaking Aspen	20	Pole/Sapling	7	47	Balsam Fir	Medium	Variable	Sapling
White Pine	10	Log/XLog/Pole	14					
Red Pine	2	Log	16					
Red Maple	20	Pole/Sapling	6					
White Oak	3	Log	14					
Red Oak	7	Log	14	94				

<b>119</b>	429 - Mixed Upland Conifers	Poletimber Well	6.7	67	51-80	N/A	-more jack pine in south half -lower stocked stand, didn't fully regenerate well from last cut -good wildlife stand -not that great of stand for timber production due to open conditions
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	40	Pole/Log	9	67	White Pine	Medium	Variable	Sapling
White Pine	5	Log/Pole	13		Cherry (spp.)	Low	5 - 10 feet	Sapling
Red Oak	10	Log	14	94	Black Spruce	Low	Variable	Sapling
Bigtooth Aspen	15	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**120** 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 3.5 54 51-80 N/A -small upland w lowland patch -looks like they cut in here too

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	8		Black Spruce	Medium	Variable	Sapling
Black Spruce	20	Pole	7		Red Maple	Low	Variable	Sapling
White Pine	5	Log	14		Balsam Fir	Medium	Variable	Sapling
Tamarack	10	Pole	8					
Red Oak	5	Log/Pole	10					
Paper Birch	2	Pole	9					
Red Maple	20	Log/Pole	11	72				
Balsam Fir	30	Pole/Sapling	7	54				
Red Pine	3	XLog	19					

**121** 429 - Mixed Upland Conifers Poletimber Well 6.0 67 51-80 N/A -lower stocked stand, didn't fully regenerate well from last cut -good wildlife stand -not that great of stand for timber production due to open conditions

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole/Log	8		White Pine	Medium	Variable	Sapling
White Pine	5	Log/Pole	13		Cherry (spp.)	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole/Sapling	7		Black Spruce	Low	Variable	Sapling
Jack Pine	40	Pole/Log	9	67	Balsam Fir	Medium	Variable	Sapling
Red Oak	10	Log	14	94				
Red Maple	15	Pole/Log	9					

**123** 42290 - Natural Mixed Pine Sawtimber Well 4.8 48 51-80 N/A -north half of stand was cut heavily through -south portion along the wetland to the south contains larger red pine and white pine

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	12		Red Maple	Medium	Variable	Sapling
White Pine	55	Log/Pole/XLog	12	48	Red Oak	Low	Variable	Sapling
Red Pine	35	Log/XLog	15	88	White Pine	Medium	Variable	Sapling
Quaking Aspen	5	Pole/Log	9	57	Black Cherry	Medium	5 - 10 feet	Sapling

**124** 6122 - Black Spruce Poletimber Well 12.0 72 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Log	14		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	52	Pole/Log	8	72	Black Spruce	Low	Variable	Sapling
Northern White Cedar	35	Pole/Log	9	111	Balsam Fir	Medium	Variable	Sapling
White Pine	3	Log	14					
Paper Birch	5	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>125</b>	6120 - Lowland Cedar	Poletimber Well	19.3	111	201+	N/A	-not too terrible to walk through, mostly open in subcanopy -some blow down and pockets of thick balsam fir		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Northern White Cedar	57	Pole/Log	8	111	Black Spruce	Low	Variable	Sapling
	Balsam Poplar	5	Log	14		Tag Alder	Low	5 - 10 feet	Tall Shrub
	White Pine	3	Log	14		Balsam Fir	Medium	Variable	Sapling
	Paper Birch	5	Pole/Log	9					
	Black Spruce	30	Log/Pole	10					
<b>126</b>	6229 - Mixed lowland shrub	Nonstocked	3.5	0		No			
<b>127</b>	4319 - Mixed Upland Forest	Poletimber Well	12.7	47	51-80	N/A	-looks like some or all of ro, wp, and rp were not cut-more fir and aspen in south		
	<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	2	Log	16		White Pine	Medium	Variable	Sapling
	Red Maple	20	Pole/Sapling	6		Black Spruce	Low	Variable	Sapling
	White Oak	3	Log	14		Cherry (spp.)	Low	5 - 10 feet	Sapling
	Red Oak	7	Log	14	94	Balsam Fir	Medium	Variable	Sapling
	Quaking Aspen	20	Pole/Sapling	7	47				
	Balsam Fir	26	Pole/Sapling	7	47				
	Black Spruce	7	Pole/Sapling	7					
	White Pine	10	Log/XLog/Pole	14					
	Jack Pine	5	Pole/Sapling	7					
<b>128</b>	3102 - Grass	Nonstocked	3.1			Managed Opening			
<b>129</b>	42210 - Natural Red Pine	Poletimber Well	1.4	47	51-80	N/A			
	<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>
	Jack Pine	30	Pole/Log	8		Cherry (spp.)	Low	5 - 10 feet	Sapling
	Red Pine	65	Pole/Log	9	47	Black Spruce	Low	Variable	Sapling
	Red Maple	5	Log/Pole	12		White Pine	Medium	Variable	Sapling
						Balsam Fir	Medium	Variable	Sapling
<b>130</b>	6124 - Lowland Spruce-Fir	Poletimber Well	7.2	35	51-80	N/A	-past treatment- clearcut, cut all but rp-acres cut-113-completion date-9/25/87-sale number- 54-063-84-01-leave trees- wp-cut volume (cde)-1383 ma, 256 ro, 166 mhwd, 296 ms, 56 pb, 60 m pine-wp must have been not quite merchantable bc east has quite a bit of larger wp		
	<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	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
	Quaking Aspen	25	Sapling/Pole	3	35				
	Balsam Fir	30	Sapling/Pole	3	35				
	Tamarack	5	Sapling/Pole	4					
	White Pine	5	Sapling/Pole	3					
	Balsam Poplar	10	Sapling/Pole	3					
	Black Spruce	20	Sapling/Pole	3	35				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**131**      6122 - Black Spruce      Poletimber Medium      3.1      53      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	15	Pole/Sapling	7		Black Ash	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Tamarack	15	Pole/Sapling	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	50	Pole/Sapling	7	53				
White Pine	5	Log	15					
Red Maple	10	Pole/Sapling	7	55				

**132**      4130 - Aspen      Poletimber Well      13.6      47      51-80      N/A

-cut record for 1975  
-cored tree of similar age

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	15	Pole/Sapling	7		Balsam Fir	Medium	Variable	Sapling
Red Oak	10	Pole/Sap/Log	8		White Pine	Low	Variable	Sapling
Quaking Aspen	70	Pole/Sapling	7	47				

**133**      6122 - Black Spruce      Poletimber Well      11.0      81      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Log	9		Tag Alder	High	5 - 10 feet	Tall Shrub
Red Pine	5	Log/XLog	16		White Pine	Low	Variable	Sapling
Tamarack	30	Pole/Log	9		Red Maple	Medium	Variable	Sapling
White Pine	5	Log/Pole	12		Black Spruce	Medium	Variable	Sapling
Black Spruce	55	Pole	8	81	Balsam Fir	Medium	Variable	Sapling

**134**      4136 - Aspen, Mixed Conifer      Poletimber Well      10.9      47      81-110      N/A

-scattered pine and oak that were not harvested -some minor inclusions  
of older timber included to the south-aspen are healthy, minimal rot

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	7		Balsam Fir	High	Variable	Sapling
Red Maple	15	Pole/Sapling	7		Red Maple	Medium	Variable	Sapling
White Pine	5	XLog/Log	20					
Balsam Fir	16	Pole/Sapling	7					
Jack Pine	4	Pole/Sapling	7					
Quaking Aspen	30	Pole/Sapling	7	47				
Red Oak	5	Log	14					
Bigtooth Aspen	15	Pole/Log	8					
Red Pine	5	XLog/Log	19					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**135**      4136 - Aspen, Mixed Conifer      Poletimber Well      9.1      47      81-110      N/A

-scattered pine and oak that were not harvested -some minor inclusions of older timber included to the south-aspen are healthy, minimal rot

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	XLog/Log	19	
Bigtooth Aspen	15	Pole/Log	8	
Balsam Fir	16	Pole/Sapling	7	
Jack Pine	4	Pole/Sapling	7	
White Pine	5	XLog/Log	20	
Red Maple	15	Pole/Sapling	7	
Quaking Aspen	30	Pole/Sapling	7	47
Northern White Cedar	5	Pole	7	
Red Oak	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling