



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54046

Entry Year 2023

Acreage: 2,249

County Montmorency

Management Area: Thunder Bay Outwash

**Revision Date:** 2021-06-03

**Stand Examiner:** Daniel Natzke

**Legal Description:**

T 31N R 02E, sec. 13, 14, 23, & 24.

**Identified Planning Goals:**

Aspen makes up a large proportion of this compartment. Increased aspen marketability in the 1970s brought widespread harvest which initiated most of the aspen stands we see today. The result of this activity was an age imbalance with the overwhelming majority of stands now between 40 and 50 years old. Fairly aggressive harvests should concentrate on these stands to begin to balance aspen age classes within the compartment. Oak stands typically range between 80 and 100 years old and will be declining in vigor soon if they are not already. Stand replacing harvests would maintain oak on the landscape albeit at a declining proportion to species such as aspen and red maple. Maintaining oak has its best potential on the poorest sites. On better sites, it is believed that oak may see increases in the understory of planted pine. The compartment's mature pine can trace its origin to a massive planting campaign in 1931-2, although in some rare cases it may be of natural origin. Harvest followed by planting red pine will be necessary to address the lack of widespread natural regeneration of this species.

**Soil and topography:**

The Rubicon-Grayling-Tawas soil association is found in the compartment's farthest northern reaches. In its landscape position of upland flats and low ridges and knolls, it takes on excessively drained characteristics, typified by the jack pine flats and scrub oak seen near the junction of M-33 and County Road 624. Along the compartment's western boundary and the M-33 corridor may be found soils of the Graycalm-Horsehead association. Typically, these are excessively well drained soils ranging from level to gently rolling topography. The Millerburg-Klacking-Horsehead association makes up the bulk of the compartment's soils. These level to very hilly soils are well drained sands and loams situated in moraines. Minor soils in the association consist of a wide rain of drainage classes from excessively drained outwash flats to very poorly drained depressions between uplands. An example of the latter includes the band of Deford Muck situated in the compartment's southeast which supports a forested swamp and one of the sources of Brush Creek.

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

State forest land surrounds most of the compartment. There is a stretch of private land to the northwest, centered on Valentine Lake as well as two larger private inholdings within the compartment. Generally, these private ownerships are recreational properties, either vacation cottages or hunting camps.

**Unique Natural Features:**

The compartment does not contain any particularly unique features. However, Jackson lake lies in the northwest, and a swamp that feeds into Brush Creek lies in the southeast. A number of small drainages and seeps may be found in the hillsides facing westward toward M-33. These drainages often contain small patches of cedar, alder and even hemlock which contrast with the surrounding rolling uplands.

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

Historical and archaeological sites exist within the compartment but require further investigation.

**Special Management Designations or Considerations:**

Currently there are no special management designations or considerations for this compartment.

**Watershed and Fisheries Considerations:**

No special considerations exist for this compartment.

**Wildlife Habitat Considerations:**

Compartment 46 is heavy to aspen and oak as a result of past management and provides habitat for several featured species including white-tailed deer, ruffed grouse, American woodcock, black bear, elk, and multiple songbird species. There are several openings which will be maintained through mowing or food and cover plantings, thereby providing habitat for wildlife. Timber harvests in aspen should provide a variety of age classes and retain woody debris for use by grouse and other wildlife. If oak types are managed, they should retain larger crowned oak to provide a food source for

wildlife.

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

No active sand/gravel pits are in the vicinity, but there is sand & gravel potential in the compartment. Surface mine development could be limited due to oil & gas infrastructure (well pads and pipelines). 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. Due to the persistent low price of natural gas, there is unlikely to be any additional Antrim development in the compartment in the near future, and there is no known potential for hydrocarbon production from other proven formations. There is no known metallic mineral potential in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

### **Vehicle Access:**

Vehicle access throughout the compartment is very good. M-33 and Stevens Spring Road run the length of the compartment's western and eastern boundaries respectively. There are numerous two tracks and trails that connect both of these major routes, making most stands directly accessible by vehicle.

### **Survey Needs:**

Barring two major private inholdings, state land surrounds most of the compartment. Survey records and monuments have been found for most of the major survey monuments. Additional survey work is unlikely.

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

Several recreational trails traverse the compartment including the Michigan Cross Country Cycle Trail, ORV/ATV trail 1261 and 1206, and Snowmobile trail 118. Besides negotiating trails, popular recreation activities include hunting, foraging and wildlife viewing.

### **Fire Protection:**

Fire response in the area may be from surrounding local volunteer fire departments and task forces from Alpena, Atlanta, and Onaway DNR stations.

### **Additional Compartment Information:**

Currently there is no further compartment information.

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

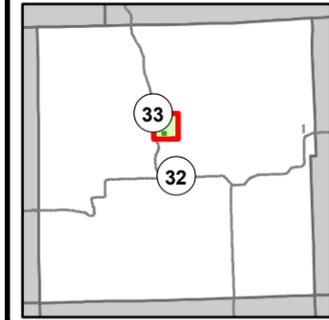
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

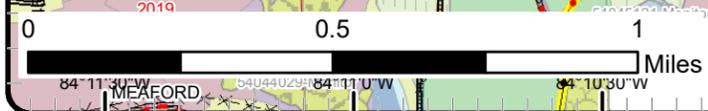
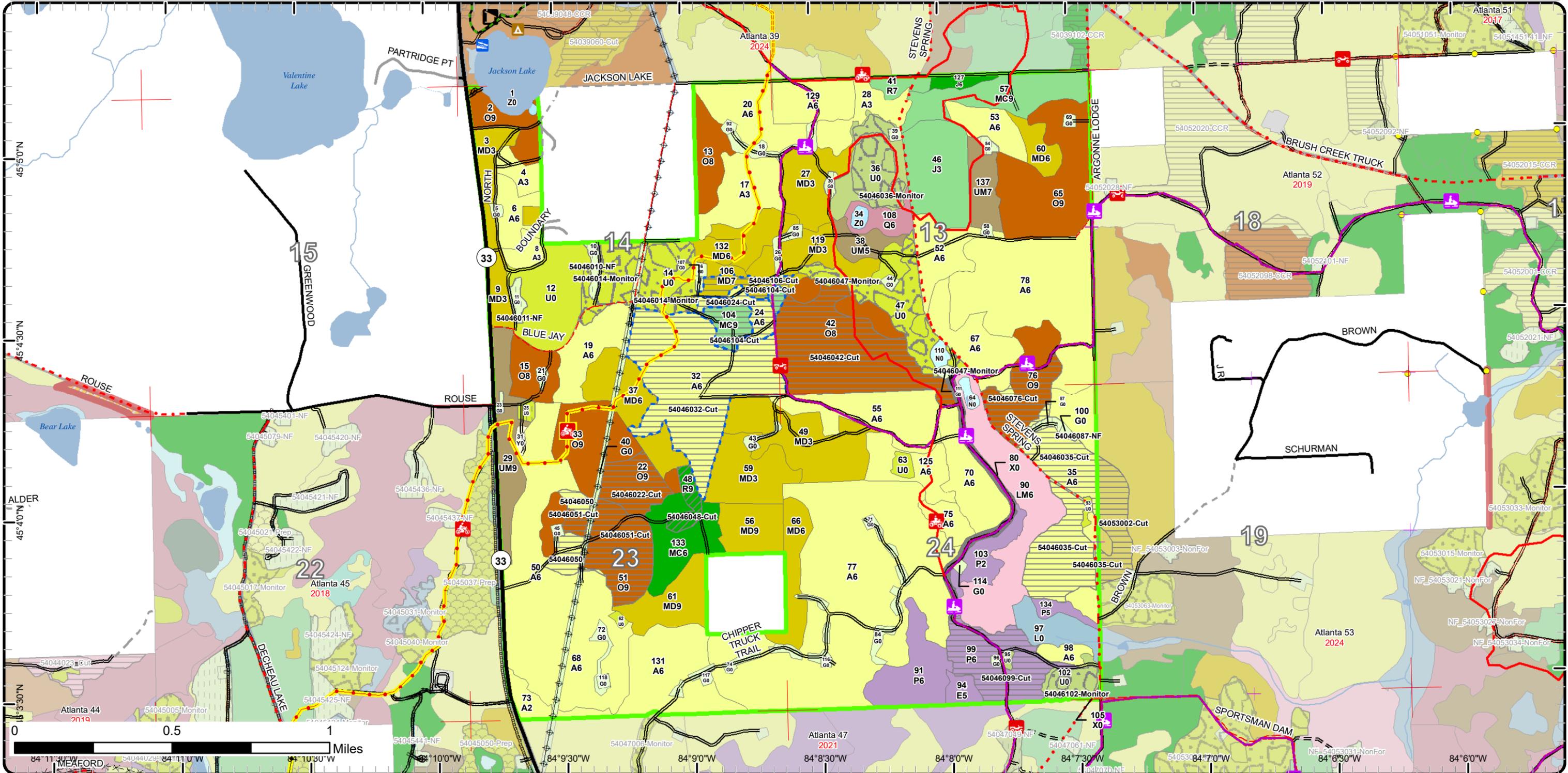
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 46  
 T31N, R02E, Sec. 13, 14, 23, 24  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Thunder Bay  
 Outwash  
 YOE: 2023  
 Acres: 2249.5 GIS Calculated  
 Examiner: Daniel Natzke  
 Map Revised: 10/7/2021  
 Map Phase: Post-Review

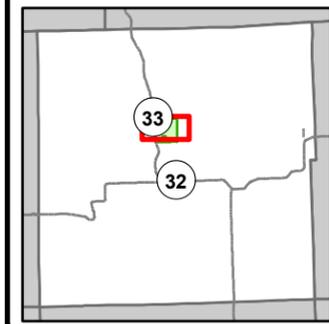


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
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- 🚲 Perennial River
- 🚲 Lakes and Rivers
- Pipeline
- ⚡ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
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- 623 - Emergent Wetland
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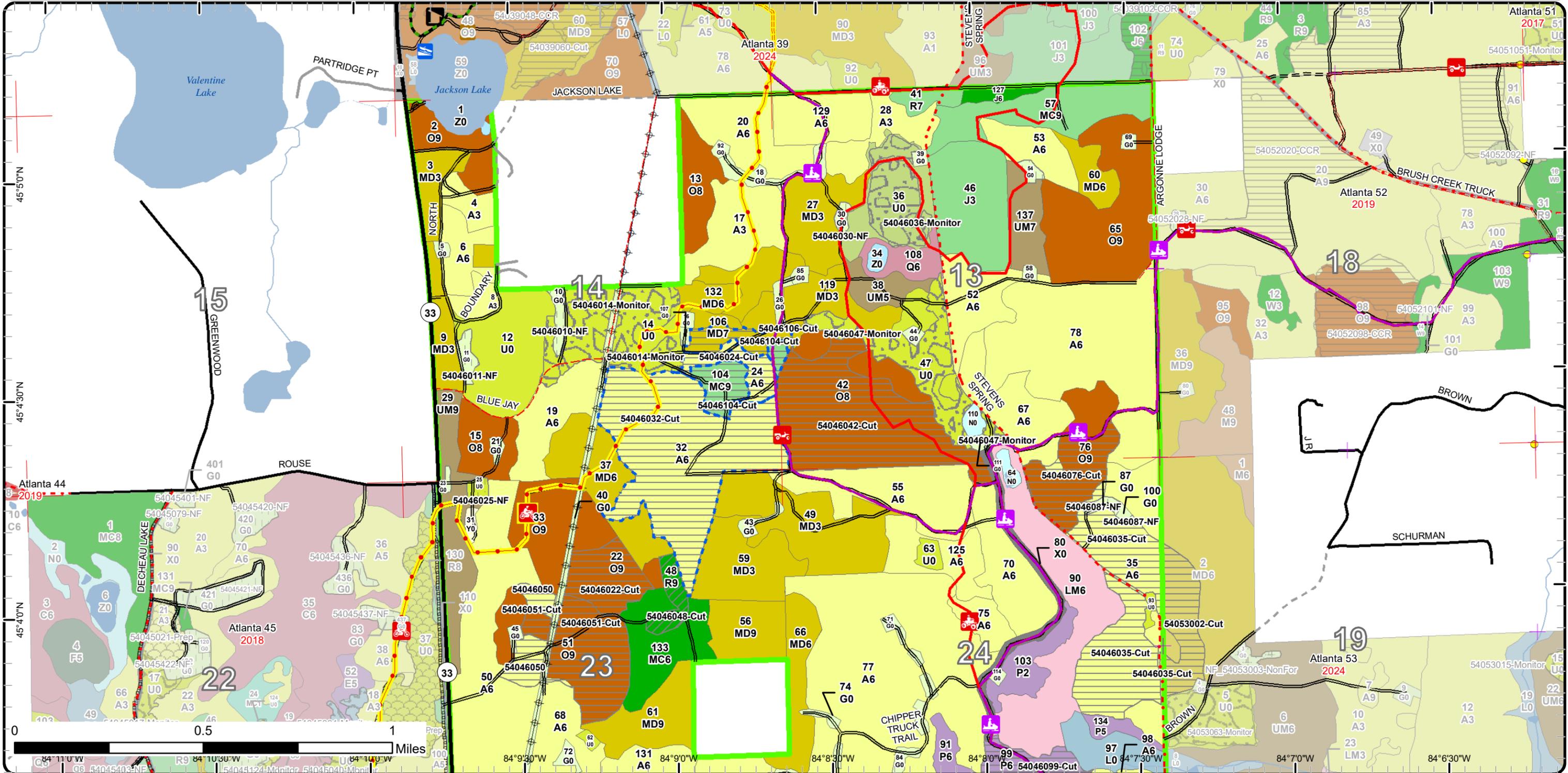


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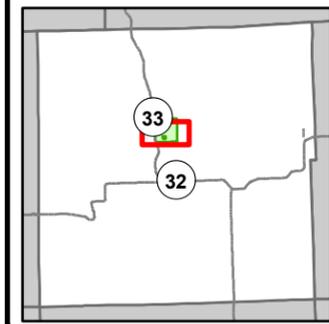


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|---|--|---|---|
| <ul style="list-style-type: none"> <li>Miris Corners</li> <li>Remonumented Section Corners</li> <li>Survey Grade Corners</li> <li>Counties</li> <li>DNR - Secondary Forest Road</li> <li>DNR - Forest Access Route</li> <li>Federal / State Highway</li> <li>Federal / State / County - Paved Road</li> <li>County - Gravel Road</li> <li>County - Dirt Road (Seasonal)</li> <li>Private - Paved Road</li> <li>Private - Dirt / Gravel Road</li> <li>Motorcycle Trails (DNR License)</li> </ul> | <ul style="list-style-type: none"> <li>MCCCT Trails</li> <li>ORV Trails</li> <li>ORV Routes</li> <li>Snowmobile Trails</li> <li>Designated Hiking Trails</li> <li>Designated Multi-Use Trails</li> <li>ORV License &amp; Trail Permit</li> <li>Designated ATV</li> <li>Designated ORV Route</li> <li>Designated Snowmobile Trails</li> <li>Michigan Cross Country Cycle Trail (MCCCT)</li> </ul> | <ul style="list-style-type: none"> <li>Toilet</li> <li>Boating Access Site</li> <li>Campground</li> <li>Intermittent Stream</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>Clearcut (w/Reserves)</li> <li>Thinning (Crown, Low, Systematic)</li> <li>Regeneration Survey</li> </ul> | <ul style="list-style-type: none"> <li>Opening Maintenance</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>430 - Upland Mixed Forest</li> <li>611 - Lowland Deciduous Forest</li> <li>612 - Lowland Coniferous Forest</li> <li>613 - Lowland Mixed Forest</li> <li>122 - Roads/Parking Lot</li> <li>310 - Herbaceous Openland</li> <li>320 - Upland Shrub</li> <li>330 - Low Density Trees</li> <li>500 - Water</li> <li>622 - Lowland Shrub</li> <li>623 - Emergent Wetland</li> <li>710 - Sand/Soil</li> </ul> |
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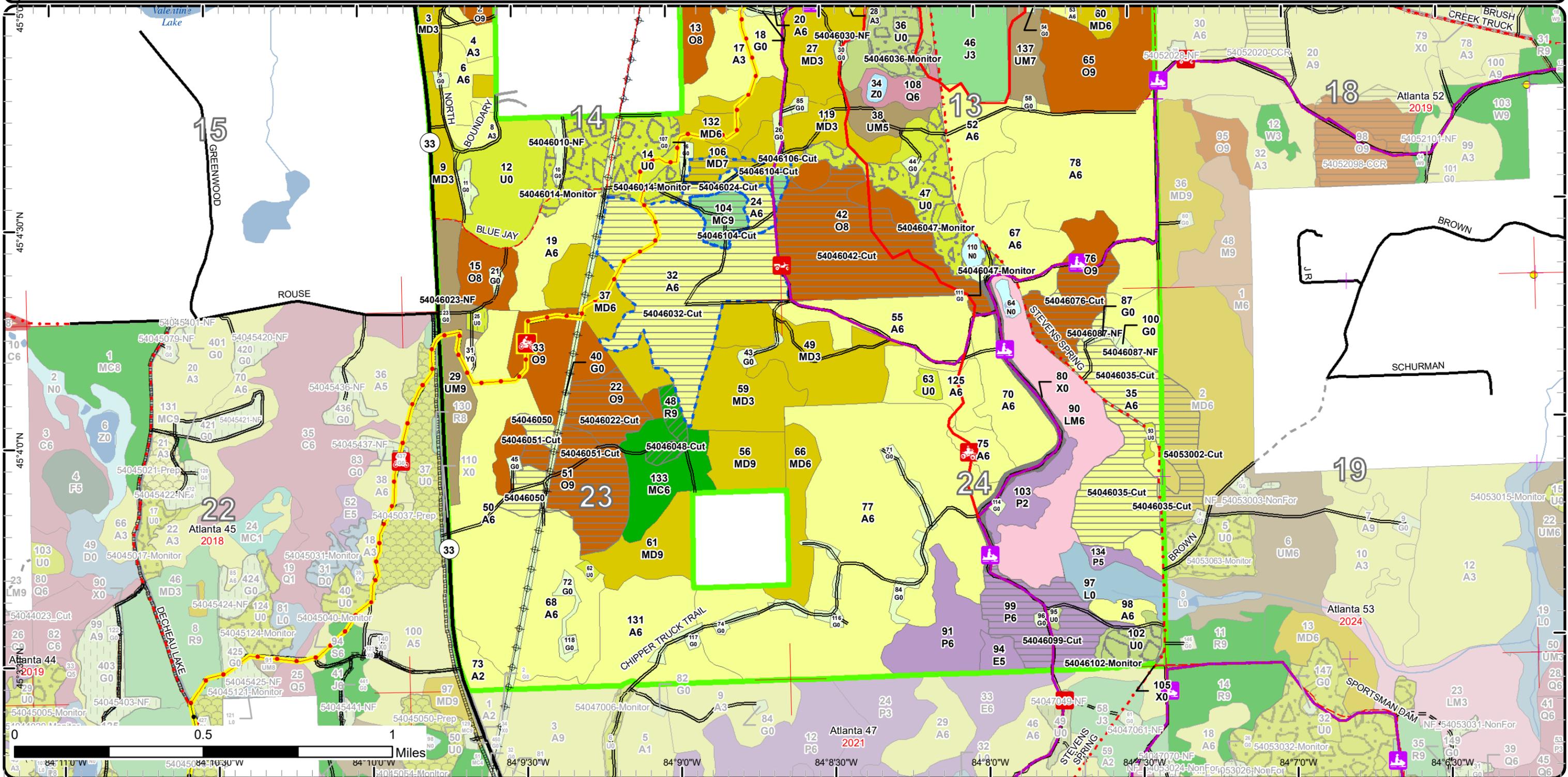


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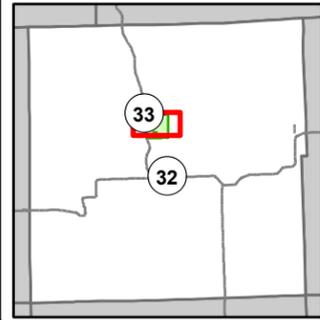


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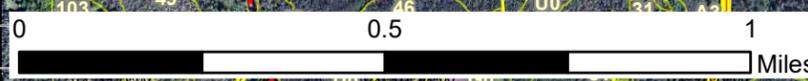
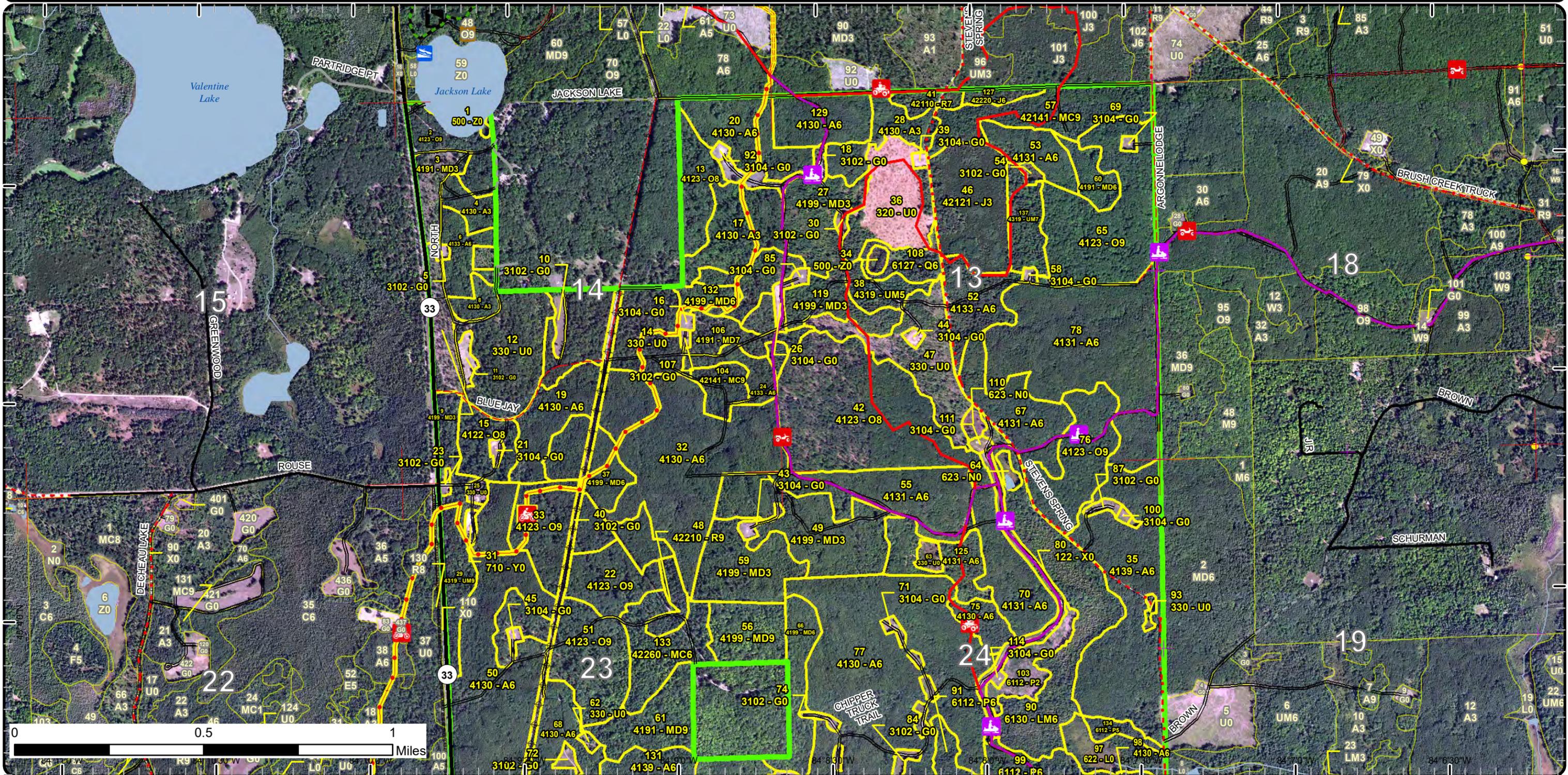
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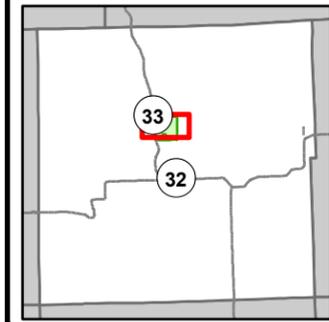
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# Special Conservation Areas

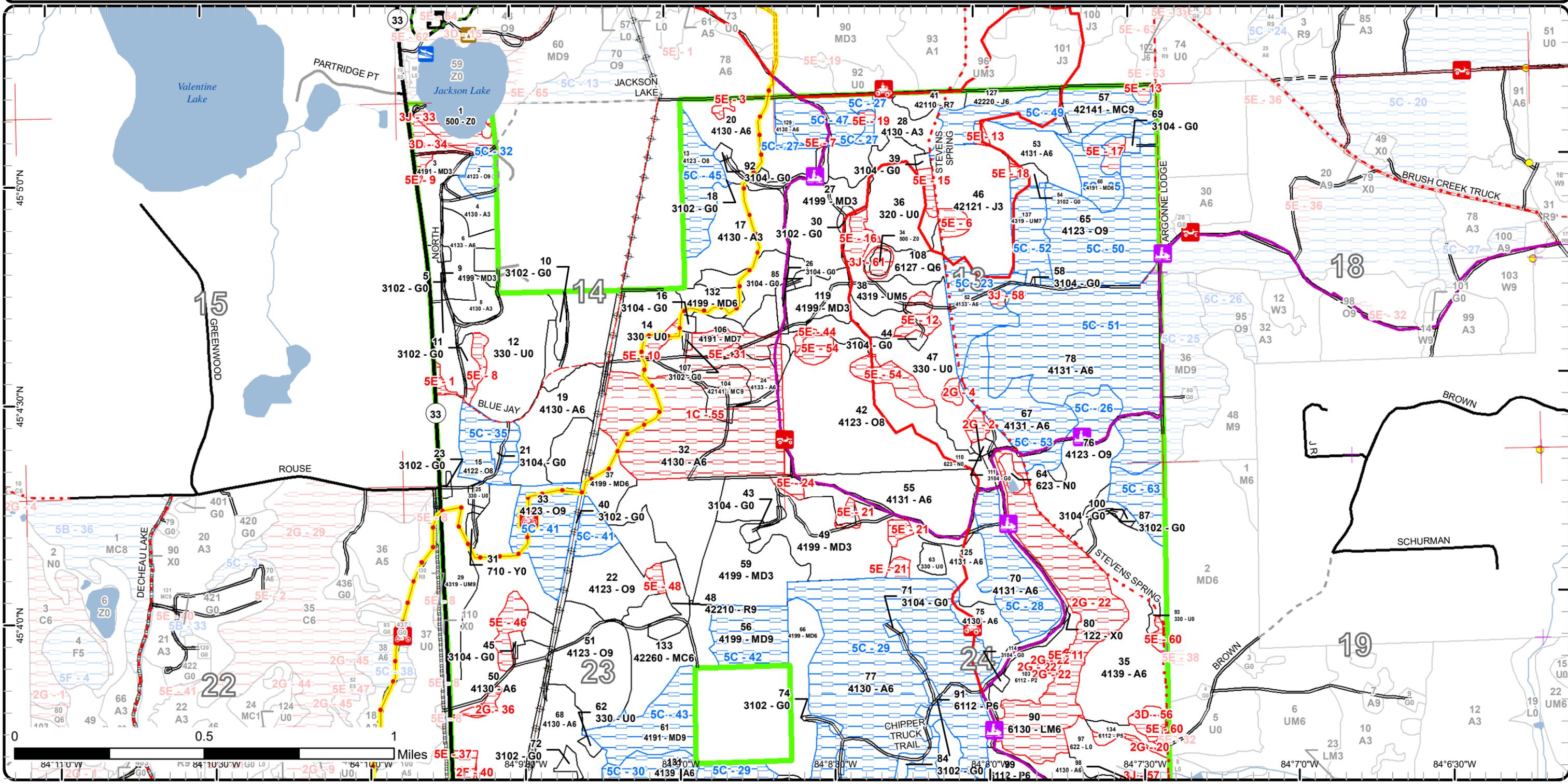
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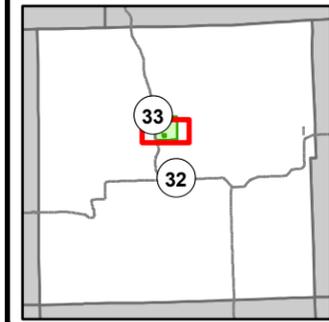
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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable

- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



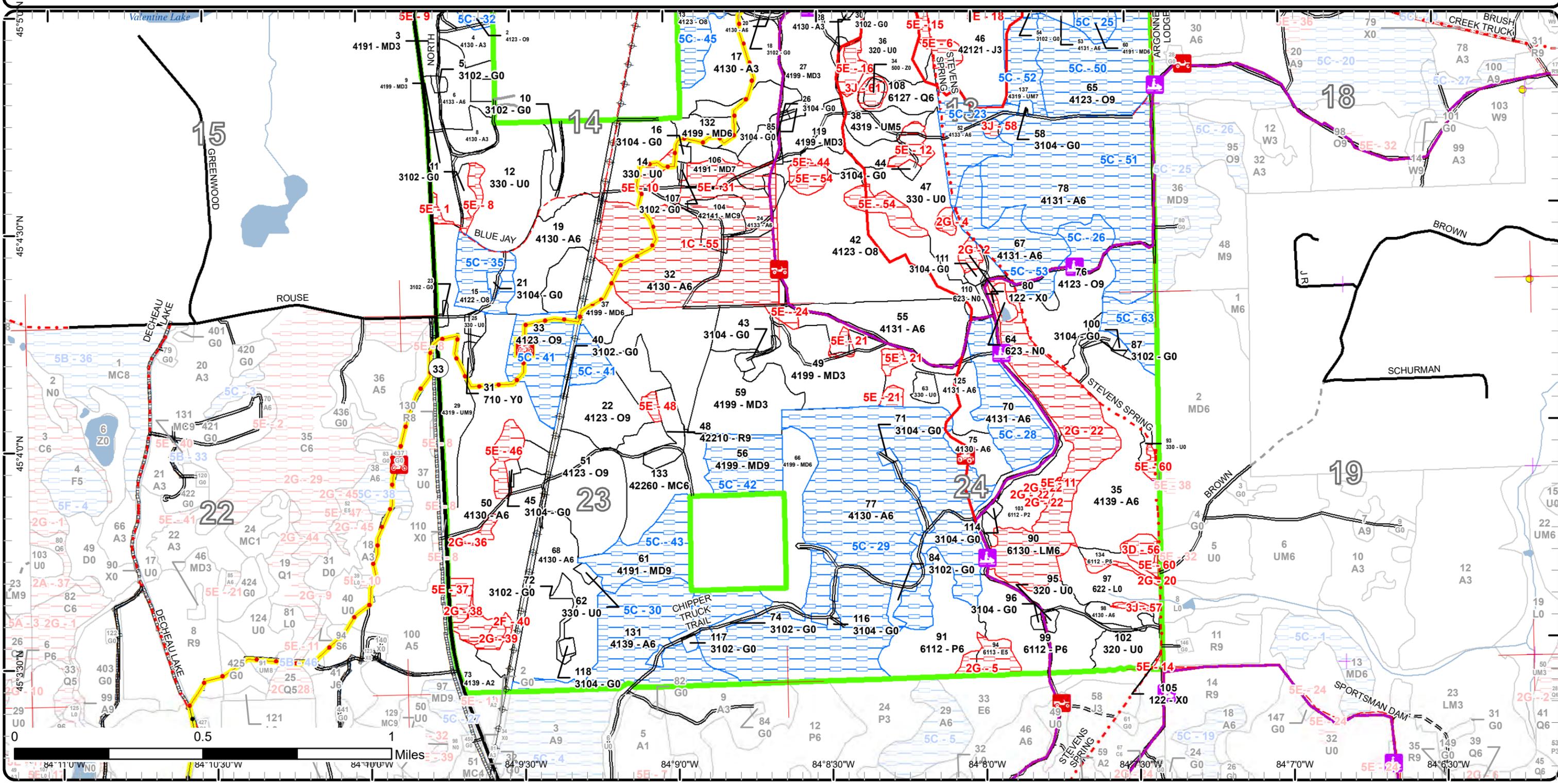
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	8	0	121	197	349	312	0	0	0	0	0	0	0	0	0	0	0	987
Herbaceous Openland	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Jack Pine	0	0	0	39	5	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Low-Density Trees	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Lowland Aspen/Balsam Poplar	0	14	0	0	0	31	43	0	0	0	0	0	0	0	0	0	0	0	87
Lowland Conifers	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Deciduous	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	28	0	108	35	41	20	0	0	20	37	0	0	0	0	0	0	0	289
Natural Mixed Pines	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	28
Oak	0	0	0	0	0	0	0	0	0	94	170	60	0	0	0	0	0	0	324
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	12	36	0	0	0	0	0	0	0	48
Red Pine	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	10	0	0	29	15	0	0	0	0	0	0	0	54
Upland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>298</b>	<b>50</b>	<b>0</b>	<b>268</b>	<b>237</b>	<b>508</b>	<b>395</b>	<b>0</b>	<b>0</b>	<b>161</b>	<b>271</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2247</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 46

Total Compartment Acres: 2,249

Commercial Harvest - 267  
 Harvests with Site Condition - 126  
 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	172	0	0	0	0	0	0	0	0	172
Lowland Aspen/Balsam Poplar	38	0	0	0	0	0	0	0	0	38
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Oak	154	0	0	0	0	0	0	0	0	154
Planted Mixed Pines	12	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	7	0	0	0	7
<b>Total</b>	<b>386</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>393</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	393	0	0	0	0	100	0	13		507
Next Step	0	132	66	0	0	66	792	0	0	1056
<b>Total</b>	<b>393</b>	<b>132</b>	<b>66</b>	<b>0</b>	<b>0</b>	<b>66</b>	<b>892</b>	<b>0</b>	<b>13</b>	<b>1563</b>



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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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**Proposed Treatments:**

<b>10</b>	<b>54046010-NF</b>	3.4	3102 - Grass	Nonstocked	Unspec ified	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 /2022

<b>11</b>	<b>54046011-NF</b>	3.0	3102 - Grass	Nonstocked	Unspec ified	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 /2022

<b>14</b>	<b>54046014- Monitor</b>	40.9	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Previous monitoring failed. Changing acceptable regen as a part of compartment review process. Acceptable regen is any combination of  
Specs: aspen, maple, oak and native conifers leading to a stand of at least low stocking.

Next Step  
Treatments:

Acceptable Any combination of aspen, maple, oak and native conifers to yield a stand of at least low stocking.  
Regen:

Other lowering acceptable stocking and changing cover type objective for monitoring as a part of compartment review process.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2030



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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>22</b>	<b>54046022-Cut</b>	19.3	4123 - Red Oak	Sawtimber Well	89	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Retention is pre-delineated east of the powerline right of way.

Specs:

Specifications:

\*Cut stumps low

\*Chip tops, apply top lopping standard in case chipping is impossible due to lack of market (observe carefully because these are oak tops)

\*Raptor specification

\*Oak wilt specification, with exceptions

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

Acceptable A stand in which planted red pine dominates with native associates.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>23</b>	<b>54046023-NF</b>	1.0	3102 - Grass	Nonstocked			Unspec NonForestMgt ified	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 /2022

<b>24</b>	<b>54046024-Cut</b>	9.8	4133 - Aspen, Mixed Pine	Poletimber Well	36	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention. Retention will be situated at the north side of the trail as identified in the site condition layer. Mark to retain legacy  
Specs: trees, if present. Mark to retain no greater than 10BA over all of under represented tree species.

Specifications:

\*Oak wilt, with exceptions

\*raptor

\*current grouse log

\*recreation trail protection and signage

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of aspen, maple, oak and native conifers.

Regen:

Other

Cut with stand 104.

Comment:

Arch hit for the sq mile. See site conditions...

Site Condition Other Dept./Div. Processes

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>25</b>	<b>54046025-NF</b>	2.1	330 - Low-Density Trees	Nonstocked		Unspecified	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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>30</b>	<b>54046030-NF</b>	1.6	3102 - Grass	Nonstocked		Unspecified	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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>32</b>	<b>54046032-Cut</b>	95.1	4130 - Aspen	Poletimber Well	52	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Clearcut with 3-5% area retention. Mark to retain legacy trees. Leave all native pine as these species make up less than 10% of the canopy. Place area retention where oak is a significant canopy species (in the northwest of the stand near stand 37 for instance) or between stands 59 and 48 (as this contains a fair amount of oak as well).

Specifications:

- \*Operate outside of spring in steeper areas (mostly in the southeast; make these separate payment units).
- \*Oak Wilt with exceptions.
- \*Recreation trail protection and signage
- \*Current grouse tree
- \*Raptor nest

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

Acceptable Regen: Any combination of aspen, maple, oak, native pine and balsam fir.

Other Comment: If legacy oak are found, try to protect them with bumper trees or situate them in the middle of a small leave clump.

Arch hit for the sq mile. See site conditions...

Site Condition Other Dept./Div. Processes

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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35	54046035-Cut	57.1	4139 - Aspen, Mixed Deciduous	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with 3-10% retention (see site conditions layer for ideal locations pre-excluded). Leave all red and white pine and white spruce.  
Specs: These trees are relatively rare within the stand and make up less than 10% of the canopy. Mark to leave legacy trees. \*\*\*Leave oak tops on top of oak stumps to limit browse. This is to allow oak stump sprouts to reach free to grow size, hopefully before the surrounding slash pile breaks down. Clearly state the purpose of leaving oak tops in the contract and to the producer once the sale begins. With this method, regeneration needs to be documented "early and often" to demonstrate success or failure of the practice.\*\*\* The harvest follows topography into the compartment to the east for an additional 20 acres.

Specifications:

- \*Operate on slope facing the swamp to the west only during dry summer/ frozen winter conditions
- \*Oak wilt no exceptions on steeper western facing slopes.
- \*Oak wilt with exceptions elsewhere.
- \*Harvest outside of spring
- \*Slope protection
- \*Extend contract to 4 years due to narrower harvest window
- \*Current grouse log specification
- \*Rabbitat each 3 chains along swamp edge (1 pushed over tree, with tops piled over to create a cavity)
- \*Raptor

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

Acceptable Regen: Any combination of aspen, maple, oak and native conifers.

Other Comment: Toe slopes have enough room to turn but side and toe slopes should only be operated on during dry summer and frozen winter conditions. If payment unit lines are put in, make sure at least one of them runs at the top of the slope leading to the swamp to the west.

Harvest with a portion of stand 2 in the compartment to the east.

Site Condition

Proposed Start Date: 10/1 /2022

42	54046042-Cut	74.4	4123 - Red Oak	Sawtimber Medium	95	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear cut with 3-10% retention. Note that retention is already delineated in the site condition layer on the slope facing stand 47 (clear cut) and Stevens Spring Rd. Mark to leave legacy trees, if present. Leave individually marked pine, especially those with dead tops, lightning scars and cavities, not to exceed 10BA per acre over all. Leave trees and retention should not hinder operations on slopes.  
Specs: \*\*\*Leave oak tops on top of oak stumps to limit browse. This is to allow oak stump sprouts to reach free to grow size, hopefully before the surrounding slash pile breaks down. Clearly state the purpose of leaving oak tops in the contract and to the producer once the sale begins. With this method, regeneration needs to be documented "early and often" to demonstrate success or failure of the practice.\*\*\*

Specifications:

- \*Cut in the dormant season for vigorous sprouting
- \*Longer contract to offset narrow operating window
- \*Raptor specification
- \*Recreational trail protection
- \*Recreational trail cautionary signage
- \*This treatment includes both ORV/Snowmobile Trails as well as 50" ATV trail. Both sets of trails must have trail protection specifications.

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

Acceptable Regen: Any combination of aspen, maple, oak, native pine and balsam fir.

Other Comment: Arch hit for the sq mile (western sliver). See site conditions...

Site Condition

Proposed Start Date: 10/1 /2021



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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>47</b>	<b>54046047-Monitor</b>	30.3	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Search for trees sufficient to meet the acceptable regeneration statement.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable regeneration is any combination of native tree species resulting in a medium or well stocked stand.

Other Comment:

Previous monitoring failed. The stand would have met the regeneration requirement if maple had exceeded browse height. The stand examiner believes this will happen eventually and has kept the same regeneration goal.

Site Condition

Proposed Start Date: 10/1 /2030

<b>48</b>	<b>54046048-Cut</b>	7.4	42210 - Natural Red Pine	Sawtimber Well	91	141-170	Harvest	Crown Thinning	42211 - Natural Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Reduce basal area in a light thinning following the order of removal to about 120 BA. Thin lightly and carefully in dense areas. Smaller diameter trees are intermediate to suppressed. These trees have a very low LCR, are very tall and would probably be prone to wind damage. Do not leave these in favor of cutting large trees.

Next Step

Treatments:

Acceptable Regen: Regeneration is not a goal of this thinning.

Other Comment:

6 QD BA swings estimated a BA of 155.

Site Condition

Proposed Start Date: 10/1 /2022

<b>50</b>	<b>54046050</b>	10.4	4130 - Aspen	Poletimber Well	36	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Retention is pre-delineated on the ridge west of the powerline right of way and the gas well opening.

Specs:

Specifications:

\*Cut stumps low

\*Chip tops, apply top lopping standard in case chipping is impossible due to lack of market (observe carefully because these are oak tops)

\*Raptor specification

\*Oak wilt specification, no exceptions west of the powerline

\*Cut outside of spring west of the powerline

\*Oak wilt specification, with exceptions east of the powerline.

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: A stand in which planted red pine dominates with native associates.

Other Comment:

This harvest is an extension of activity in stands 51 and 22, a clear cut to plant red pine. The harvest area includes this portion of stand 50 to make the planting area more practical. This is a partial stand harvest, under 20 acres which doesn't require retention.

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>51</b>	<b>54046051-Cut</b>	36.4	4123 - Red Oak	Sawtimber	86	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Retention is pre-delineated on the ridge west of the powerline right of way and the gas well opening.

Specs:

Specifications:

\*Cut stumps low

\*Chip tops, apply top lopping standard in case chipping is impossible due to lack of market (observe carefully because these are oak tops)

\*Raptor specification

\*Oak wilt specification, no exceptions west of the powerline

\*Cut outside of spring west of the powerline

\*Oak wilt specification, with exceptions east of the powerline.

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A stand in which planted red pine dominates with native associates.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>54</b>	<b>54046054-NF</b>	1.6	3102 - Grass	Nonstocked		Unspec ified	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 guidelines for buffers along trail systems.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

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>76</b>	<b>54046076-Cut</b>	23.9	4123 - Red Oak	Sawtimber Well	93	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clearcut with 3-5% area retention. Mark to retain legacy trees. Leave all native pine as these species make up less than 10% of the canopy. Place area retention to address visual concerns along Stevens Spring Rd. somewhat while remaining stand-representative, however avoid placing this retention directly around intersections to avoid blocking views. \*\*\*Leave oak tops on top of oak stumps to limit browse. This is to allow oak stump sprouts to reach free to grow size, hopefully before the surrounding slash pile breaks down. Clearly state the purpose of leaving oak tops in the contract and to the producer once the sale begins. With this method, regeneration needs to be documented "early and often" to demonstrate success or failure of the practice.\*\*\*

- Specs:
- Specifications:
- \*Do not cut sub-merchantable oak
  - \*Operate outside of spring.
  - \*Oak Wilt no exceptions on the slopes leading to Stevens Spring,
  - \*Oak Wilt with exceptions elsewhere.
  - \*Slope protection
  - \*Roundwood to avoid erosion on slopes.
  - \*Recreation trail protection and signage
  - \*Raptor nest

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen, maple, oak and native pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>87</b>	<b>54046087-NF</b>	2.2	3102 - Grass	Nonstocked		Unspec ified	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.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

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>99</b>	<b>54046099-Cut</b>	37.8	6112 - Lowland Aspen	Poetimber Well	53	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clearcut with 3-8% area retention. Mark to retain legacy trees. Mark to retain native pine, especially those with cavities, dead tops and lightning scars not to exceed 10 BA over all. Place area retention against the beaver flooding.

Specs:

Specifications:

- \*Waive the 2" cutting requirement
  - \*Operate outside of spring.
  - \*Cut during dry summer or frozen winter conditions
  - \*4 year contract
  - \*Oak Wilt with exceptions.
  - \*Recreation trail protection and signage
- This treatment includes both ORV/Snowmobile Trails as well as 50" ATV trail. Both sets of trails must have trail protection specifications.
- \*Current grouse tree
  - \*Raptor nest
  - \*Brush piles for rabbits and others along beaver flooding.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen, maple, oak, native pine and balsam fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>104</b>	<b>54046104-Cut</b>	12.2	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	89	111- 140	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Clearcut. No group retention necessary due to the small size of the stand. Mark to retain legacy trees, if present. Mark to retain no greater than 10BA of native conifers, especially those exhibiting dead tops and cavities.

Specs:

Specifications:

- \*Oak wilt, with exceptions
- \*raptor
- \*recreation trail protection and signage

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of native conifer and broadleaf tree species.

Regen:

Other Cut with stand 24

Comment:

Arch hit for the sq mile. See site conditions...

Site Condition Other Dept./Div. Processes

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
<b>106 54046106-Cut</b>	9.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	93	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut. Retention is pre-designated in the site condition layer. Harvest all merchantable trees except for those marked to leave. Mark to retain legacy trees if present. Leave trees shall not exceed 10BA over all, focusing on individual oak and pine, especially pine showing dead tops or cavities.</p> <p><u>Specs:</u></p> <p>Specifications:                      *Do not use the 2" cutting requirement                      *Oak Wilt no exceptions                      *Recreation trail protection and signage                      *Raptor nest                      *Leave slash piles on top of oak stumps</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of aspen, maple, oak, native pine and balsam fir.</p> <p><u>Other Comment:</u> Arch hit for the sq mile. See site conditions...</p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>2 54053002-Cut</b>	20.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 3-10% retention (see site conditions layer for ideal locations pre-excluded). Leave all red and white pine and white spruce.</p> <p><u>Specs:</u> These trees are relatively rare within the stand and make up less than 10% of the canopy. Mark to leave legacy trees. ***Leave oak tops on top of oak stumps to limit browse. This is to allow oak stump sprouts to reach free to grow size, hopefully before the surrounding slash pile breaks down. Clearly state the purpose of leaving oak tops in the contract and to the producer once the sale begins. With this method, regeneration needs to be documented "early and often" to demonstrate success or failure of the practice.*** Harvest with the treatment immediately to the west.</p> <p>Specifications:                      *Oak wilt with exceptions.                      *Harvest outside of spring                      *Extend contract to 4 years due to narrower harvest window                      *Current grouse log specification                      *Raptor</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of aspen, maple, oak and native conifers.</p> <p><u>Other Comment:</u> Harvest this with stand 35 in the compartment to the west.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Approved Treatments:**

<b>36 54046036-Monitor</b>	20.8	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any combination of red pine and red oak resulting in a well stocked stand(s).</p> <p><u>Other Comment:</u> Percent to Treat = 100%</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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Site Condition

Proposed Start Date: 10/1 /2020

<b>102</b>	<b>54046102-Monitor</b>	8.4	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
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Prescription

Specs:

Next Step ; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Regen: Acceptable regeneration is red pine resulting in a medium or well stocked stand.

Other

Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

**Total Treatment Acreage Proposed: 529.1**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Daniel Natzke : Examiner

Compartment: 46  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
425	454	108	

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions						
					5C	1C	2F	2G	3D	3J	5E
987	425	<b>454</b>	108	Aspen	<b>454</b>	75	6	5	4	2	16
79	79	<b>0</b>	0	Herbaceous Openland							0
44	41	<b>0</b>	3	Jack Pine							3
127	114	<b>0</b>	13	Low-Density Trees				2			11
87	83	<b>0</b>	4	Lowland Aspen/Balsam Poplar				4			0
10	9	<b>0</b>	1	Lowland Conifers						1	0
6	0	<b>0</b>	6	Lowland Deciduous				6			
59	0	<b>0</b>	59	Lowland Mixed Forest				58			2
16	16	<b>0</b>	0	Lowland Shrub							
5	2	<b>0</b>	2	Marsh				2			
289	223	<b>54</b>	13	Mixed Upland Deciduous	<b>54</b>	8					4
28	28	<b>0</b>	0	Natural Mixed Pines							
318	153	<b>131</b>	35	Oak	<b>131</b>	1			4	7	23
48	1	<b>33</b>	14	Planted Mixed Pines	<b>33</b>	11					3
12	12	<b>0</b>	0	Red Pine							
2	2	<b>0</b>	0	Sand, Soil							
55	39	<b>14</b>	1	Upland Mixed Forest	<b>14</b>					0	1
46	39	<b>0</b>	7	Upland Shrub							7
14	14	<b>0</b>	0	Urban							0
9	7	<b>0</b>	2	Water						2	
2,242	1,285	<b>687</b>	269	Total Forested Acres	<b>687</b>	95	6	76	8	12	71
	57%	<b>31%</b>	12%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The probable location of aesthetic clump of 50 oak traded for two acres of "leave oak" accidentally cut by producer in 1984. Red Porkie Block, closed 07/23/1984.							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term area retention for the surrounding stand.							
7	<b>Unavailable</b>	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for harvest in stand 129 (A6 in 2023).							

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8	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	5E: Long-Term Retention	2	3B: Threatened, endangered, and special concern species	5F: Evaluated for Forest Health Considerations	2G: Too wet (sensitive soils, does not include access issues)	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long term aggregate retention for harvest in stand 47.							
13	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for harvest in stand 57 (MC 9 in 2023).							
14	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for harvest in stand 65 (O9 in 2023)							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for harvest in stand 137 (UM 7 in 2023).							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for harvest in stand 129 (A6 in 2023).							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These areas appear to be retention for past harvests in surrounding stands. Primarily consists of about 90 year old oak canopy.							

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22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	58	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Probable retention from previous harvests.							
25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Best to let it sit until the majority of stems are merchantable.							
26	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut with stands 78 and 67, if possible							
27	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	200	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Would like to see more growth before harvest. Healthy besides...							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Would like to see more growth before harvest							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for stand 24, well-stocked pole aspen to the south.							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 6 acres							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Jackson Lake							

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34	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Jackson Lake, M-33 viewshed							
35	<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> Kind of a sparse overstory of oak with planted red pine from 1931 and reasonably well stocked understory. Believe letting it go might be a good option.							
36	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A drainage that is probably seasonally wet. Contains northern white cedar and hemlock. Both rare in this stand.							
37	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The surrounding stand was cut before area retention was common. It may be that this area was selected for aesthetic concerns. Because it looks like the parent stand of the surrounding aspen, the stand examiner has chosen to consider it retention for that stand.							
38	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	3D: Recreational / Scenic values	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<b>Comments:</b> Dense northern white cedar and white pine, many probably legacies, protect several seeps emerging from the hillside.							

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39	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A wet drainage/swale with water running in winter 2021. The source is likely seeps/springs farther uphill. The swale contains northern white cedar, a relative rarity for this stand. Alder also in the swale.							
40	<b>Unavailable</b>	<b>2F: Too steep</b>	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too steep by virtue of slopes leading directly into areas too wet to harvest. Would make good future retention as it does contain all representative species plus address some visual concerns from M-33							
41	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut later to try and balance ages.							
42	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Low basal area at present. Would tend to prefer to allow the pole sized trees to respond a bit if possible							
43	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> It's funny, the basal area reads high but memory recalls a stand that seemed somewhat open. This probably has to do with the number of very large trees widely spaced and the number of stump sprouts, somewhat closer. Prefer to hold for now. Comments from the previous inventory suggest this once grew some very large white pine so it might be a candidate for a conversion to pine when the stand's time comes.							

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44	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for stand 106, poorly stocked log mixed deciduous to the west.							
45	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold until later.							
46	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for stand 51 to the east, well stocked log oak.							
47	<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> This stand is in good shape and could hold for at least another 10 years. If it were cut, it would be good to cut with the aspen to the north in the adjacent compartment which is approximately the same age.							
48	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for stand 22 to the west, fully stocked log oak.							
49	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut with stands 65 and 137 if possible.							

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50	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut with stands 57 and 137 if possible.							
51	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	95	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut with stands 67 and 76 if possible.							
52	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut with stands 65 and 57 if possible.							
53	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut with stands 78 and 76 if possible							
54	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for overstory removal in stand 42							
55	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	95	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
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Compartment: 46  
Year of Entry: 2023

56	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A 4-acre semi-open inclusion the same age as surrounding stands. It contains more diversity in horizontal and vertical structure than other stands nearby. It also contains many species beneficial to wildlife and sees a good amount of wildlife use, evidenced by numerous trails. Its semi open character with its combination of species make for an aesthetically pleasing spot.							
57	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Approximate 100' buffer for Brush Creek although here it's behind beaver dams...							
58	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for small pond.							
60	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term aggregate retention for partial stand 35 partial harvest.							
61	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Setback for pond							
63	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A portion of stand 35. Cut with stand 2 in the adjacent compartment to the east.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1            500 - Water            Nonstocked            7.0                       Unspecified            No            Jackson Lake

2            4123 - Red Oak            Sawtimber Well            17.1            92            111-140            N/A            On edge of Jackson Lake.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	65	Log/XLog/Pole	14	92	Red Maple	Medium	Variable	Sapling
Quaking Aspen	10	Log/Pole	10		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Red Pine	7	Pole/Log	9		Cherry (spp.)	High	< 5 feet	Seeding
Jack Pine	3	Pole/Log	8		Dogwood (spp.)	Low	< 5 feet	Tall Shrub
Red Maple	8	Pole/Sapling	5		Bigtooth Aspen	Medium	Variable	Sapling
White Pine	4	Pole/Log/XLog	9		White Pine	Low	Variable	Sapling
White Oak	2	Log/Pole	11		Red Pine	Medium	Variable	Sapling
Paper Birch	1	Log/Pole	11		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
					Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub

3            4191 - Mixed Upland Deciduous with Conifer            Sapling Well            12.2            6            1-50            N/A            A nice diverse stand with good number of oak saplings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	20	Sapling	1	6
Bigtooth Aspen	15	Sapling	1	6
Red Maple	33	Sapling/Pole	1	6
Red Pine	3	Log	14	
Red Oak	5	Log/XLog	16	90
White Oak	1	Log	14	
White Pine	1	Log	10	
Jack Pine	5	Sapling	1	
Balsam Fir	5	Sapling	1	
Black Spruce	2	Sapling	1	

Approximately 13 residual BA left of red oak, white oak, red pine, and white pine. Pre-merchantable oak <4" DBH were left, as well as some red maple.

4            4130 - Aspen            Sapling Well            8.4            26            Immature            N/A            This stand will be a pole stand at the next year of entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2		White Pine	Low	< 5 feet	Sapling
Red Oak	2	Sapling	1		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	70	Sapling/Pole	4	26	Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Quaking Aspen	15	Sapling/Pole	4					
Balsam Fir	1	Pole/Sapling	5					
Red Pine	2	Log/XLog	15	89				

5            3102 - Grass            Nonstocked            1.0                       Unspecified



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	4133 - Aspen, Mixed Pine	Poletimber Well	13.7	43	81-110	N/A	This stand, initiated by clearcut in 1978, must've been a leave all pine and oak sale as there are considerable amounts of both in the overstory that are in the 80-90 year old time frame. Generally these older trees remain in good health. The best quality seems to be on the hilltops here. In the south there is a kettle depression. There are a few very good big tooth aspen clones already reaching 6 sticks of merchantable height.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		3	Pole/Sapling	7		Black Cherry		
Red Oak		25	Log/XLog/Pole	13		Low		
Bigtooth Aspen		40	Pole/Sapling	6	43	Trace		
Red Pine		15	Log/XLog/Pole	12	89	Variable		
White Pine		15	Log/XLog/Pole	12		Sapling		
White Oak		2	Log/XLog	15				
8	4130 - Aspen	Sapling Well	6.4	26	1-50	N/A		Nice stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		7	Sapling	3		Red Oak		
Red Oak		8	Log/XLog	15		Medium		
Bigtooth Aspen		60	Sapling/Pole	4	26	Variable		
Red Pine		7	Log/XLog	16	89	Low		
White Oak		1	Sapling	3		Variable		
Jack Pine		2	Log/Pole	10		Sapling		
White Pine		8	Log/Pole	12		Sapling		
Quaking Aspen		7	Sapling/Pole	3				
9	4199 - Other Mixed Upland Deciduous	Sapling Well	16.2	6	1-50	N/A	Good sized clone of quaking aspen in the middle. Tends more toward oak in the south. Due to minimum mapping standards, this stand includes former stand 7 which was cut as a 5 spot shelterwood in a species removal harvest closed in 2008. This two acre area has plenty of pine left or seeded in plus numerous free-to-grow oak despite evidence of heavy browse along wildlife trails. Approximately 4 residual BA left of red pine, red oak, white pine, and white oak. Pre-merchantable oak <4" DBH were left, as well as some red maple.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		25	Sapling/Pole	1	6			
Red Oak		5	Log	13	90			
Quaking Aspen		20	Sapling	1	6			
Red Pine		3	Log	14				
Black Cherry		5	Sapling	1	6			
Red Oak		30	Sapling	1	6			
White Oak		1	Log	13				
White Pine		1	Log/Pole	10				
Bigtooth Aspen		8	Sapling	1	6			
Jack Pine		2	Sapling	1				
10	3102 - Grass	Nonstocked	3.4		Unspecified	Managed Opening	Some decent big bluestem. But not as impressive as stand 11.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Big Bluestem		Medium	Unspecified	Non-Wood				
Spotted Knapweed		Medium	Unspecified	Non-Wood				
Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub				
Sedges		Full	Unspecified	Non-Wood				
Sweet Fern		Medium	< 5 feet	Tall Shrub				
Red Pine		Low	< 5 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
11	3102 - Grass	Nonstocked	3.0		Unspecified	Managed Opening	Nice stand of big bluestem.																																														
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Big Bluestem</td> <td>Full</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Sweet Fern</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Spotted Knapweed</td> <td>Low</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Sedges</td> <td>Low</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Big Bluestem	Full	Unspecified	Non-Wood	Sweet Fern	Low	< 5 feet	Tall Shrub	Spotted Knapweed	Low	Unspecified	Non-Wood	Sedges	Low	Unspecified	Non-Wood																												
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Spotted Knapweed	Low	Unspecified	Non-Wood																																																		
Sedges	Low	Unspecified	Non-Wood																																																		
12	330 - Low-Density Trees	Nonstocked	38.3	0	Unspecified	4139 - Aspen, Mixed Deciduous	This stand is a regeneration failure based on the acceptable regeneration statement from the previous year of entry. However it is currently moderately stocked with a mix of aspen, maple, oak and pine. The stand examiner would like to accept current regeneration as a part of the compartment review process. The worst stocking is on top of the hill.																																														
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13	4123 - Red Oak	Sawtimber Medium	18.1	93	51-80	N/A	Pretty good quality red oak, mostly. And fairly healthy still to boot. A few nice clumps of red pine as well. Dense, dense, dense understory of mainly big tooth aspen. Originally this stand extended in to the current aspen stand to the east but the species removal resulted in a far sparser oak canopy. Additionally the aspen are a good 5-10 feet higher without the competition for light it seems. If the aspen are to succeed, the overstory should be removed with everything 2" and over sheared for a restart.																																														
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14	330 - Low-Density Trees	Nonstocked	44.0	0	Unspecified	4139 - Aspen, Mixed Deciduous	There is a wide area near the center that is almost devoid of free to grow trees. Most stump sprouts still range between 3-6 feet. Stand is poorly stocked currently but will probably be at least moderately stocked in the future.																																														
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15	4122 - Oak, Pine	Sawtimber Medium	15.5	95	51-80	N/A	Merged a portion of another stand that seemed to fit better in this stand, though it contains northern hardwood type species (rare for the stand over all) as well as a likely seasonally perched water table. This area is in the southeast of the current stand. This may correspond with an area previously identified as Kotar AFO. This area also seems to contain legacy red and white pine.																																																																																	
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16	3104 - Degraded	Nonstocked	1.1		Unspecified		Basically the condition of this stand and the one to the south are the same.																																																																																	
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17	4130 - Aspen	Sapling Well	28.0	26	Immature	N/A	Origin: "Mixed Bag Block", closed 12/12/1994.																																																																																	
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18	3102 - Grass	Nonstocked	6.8		Unspecified	No	Also includes Black eye Susans. The opening probably looks pretty good in July-August.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
19	4130 - Aspen	Poletimber Well	23.3	47	111-140	N/A	This is basically an extension of the large aspen stand across the powerline right-of-way to the east. In fact this stand, the mixed deciduous to the southeast and the aspen to the east were all cut at about the same time. Talk about a huge clearcut!			
<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		3	Pole	7		Balsam Fir		Low	Variable	Sapling
Red Maple		10	Pole/Sapling	5		Red Maple		Medium	Variable	Sapling
Bigtooth Aspen		69	Pole/Log/Sap	8	47	Ironwood		Low	Variable	Sapling
White Pine		10	Log/XLog/Pole	12		White Pine		Low	>20 feet	Sapling
Red Pine		3	Log/XLog/Pole	17						
Quaking Aspen		5	Pole	7	47					
20	4130 - Aspen	Poletimber Well	28.5	37	51-80	N/A	It was hard to nail down a stand age but cored ages agreed with the cutting record mostly. Seems like for the most part this stand is situated on a good site as evidenced by round lobed hepatica and ash seedlings in places. The location for retention is my educated guess based on sale admin notes.  Origin: Red Porkie Block, closed 07/23/1984.			
<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		8	Sapling	3		Red Maple		High	10 - 20 feet	Sapling
Bigtooth Aspen		80	Pole/Sapling	6	37	Cherry (spp.)		Low	5 - 10 feet	Tall Shrub
Red Oak		8	Pole/Sapling	6		Oak (spp.)		Low	5 - 10 feet	Sapling
White Pine		2	Sapling	2						
Red Pine		2	Pole	8						
21	3104 - Degraded	Nonstocked	1.3		Unspecified					
22	4123 - Red Oak	Sawtimber Well	21.2	89	51-80	N/A	Current ages support a statement found in 1973 inventory suggesting that most of this portion of the compartment regenerated in 1931-2. A species thinning in 1996 brought us the current stand condition. Generally speaking, there's less stem density than the stand to the north. Roughly the west half is covered in a red maple dog hair for a regeneration layer while the east is well-browsed and mostly dogwood.			
<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		95	Log/XLog	15	89	Red Maple		High	Variable	Sapling
White Pine		1	Log	15		White Pine		Low	Variable	Sapling
Red Pine		3	XLog/Log	18		Dogwood (spp.)		Medium	5 - 10 feet	Tall Shrub
Sugar Maple		1	Pole	8						
23	3102 - Grass	Nonstocked	1.0		Unspecified	No				
						<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
						Little Bluestem	Trace	Unspecified	Non-Wood	
						Big Bluestem	Trace	Unspecified	Non-Wood	
						Mixed Grasses	Medium	5 - 10 feet	Non-Wood	
						Autumn Olive	Trace	5 - 10 feet	Tall Shrub	
						Spotted Knapweed	Medium	Unspecified	Non-Wood	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
<b>24</b>	4133 - Aspen, Mixed Pine	Poletimber Well	10.5	36	81-110	N/A	Scattered overstory of mature oak and pine surrounded mainly by big tooth aspen.																																																																									
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<b>25</b>	330 - Low-Density Trees	Nonstocked	2.1		Unspecified	No	Balsam poplar is colonizing this opening along with white pine and autumn olive. Like many places in this part of the compartment adjacent to M-33, it seems the site was used as a borrow pit.																																																																									
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<b>27</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	24.8	35	Immature	N/A	Species removal thinning: Cut all aspen, jack pine, white birch, red maple and trees marked with orange. Green's Oak Trail Aspen closed 07/10/2008.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28** 4130 - Aspen Sapling Well 17.7 27 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
Red Oak	5	Sapling/Pole	4	
Bigtooth Aspen	62	Sapling/Pole	4	27
White Pine	1	Sapling	3	
Red Pine	1	Sapling	2	
Jack Pine	1	Sapling	2	
Northern Pin Oak	2	Sapling	4	
Black Cherry	1	Sapling	2	
Quaking Aspen	7	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub

A rather large amount of red pine make up a super canopy in the eastern portions of this stand. But otherwise the stand is reasonably good quality aspen with numerous oak pockets left from the previous stand. Merchantable BA chiefly from oak and red pine left from previous stand. Should be a pole stand at next entry.

**29** 4319 - Mixed Upland Forest Sawtimber Well 28.9 89 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Pole/Log	9	50
Northern Pin Oak	1	Log/Pole	12	
White Pine	3	Log/Pole/XLog	12	
Red Pine	40	XLog/Log	18	89
Jack Pine	4	Log/Pole	13	
Red Oak	20	Log/XLog/Pole	16	
Red Maple	17	Pole/Log/Sap	8	
Quaking Aspen	1	Pole	7	
Paper Birch	2	Pole/Log	8	
Balsam Fir	2	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling
Beech	Low	Variable	Sapling
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Red Oak	Low	Variable	Sapling

Greater tree densities in the south and an increasingly patchy character toward the north. Jack Pine has largely senesced from the stand, in many cases releasing pockets of sapling red maple. There is one pocket near the center of vigorous pole red oak. An old road or rail road bed parallels M-33. Like many places in this part of the compartment adjacent to M-33, it seems portions of this site were used as a borrow pits.

**30** 3102 - Grass Nonstocked 1.6 Unspecified No

**31** 710 - Sand, Soil Nonstocked 1.6 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	Medium	5 - 10 feet	Tall Shrub
Spotted Knapweed	Low	Unspecified	Non-Wood
Balsam Poplar	Medium	Variable	Sapling
Mixes Sedges/Grasses	Medium	Unspecified	Non-Wood

Like many places in this part of the compartment adjacent to M-33, it seems the site was used as a borrow pit.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>32</b>	4130 - Aspen	Poletimber Well	95.1	52	111-140	N/A	A lot of browse to dogwood. Elk sign noted, especially in the north. Healthy stand. Some areas have very dense basal area. Product heights achieve 6-7 sticks in some areas. A couple good pockets of oak.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole/Sapling	5		Cherry (spp.)		
Paper Birch		2	Pole	6		Blueberry/Bilberry/Cranberry		
Bigtooth Aspen		60	Pole/Log	8	52	Witch Hazel		
White Pine		1	Pole/Log	9		Dogwood (spp.)		
Red Pine		2	XLog/Log	18				
Quaking Aspen		13	Pole	7				
Red Oak		12	Pole/Log	9				
						<b>Density</b>		<b>Avg. Height</b>
							<b>Size</b>	
<b>33</b>	4123 - Red Oak	Sawtimber Well	30.6	89	81-110	N/A	Left to its own devices, this stand would probably convert to white pine. The stand includes some short, relatively steep slopes but none would pose too great a challenge for harvest operations. There is probably a cohort of 100+ year old red oak scattered about but most other oak are still fairly healthy. Again, this stand was species cut in 1996 and likely originated (as supported by current age) in 1931-2.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		85	Log/XLog	15	89	Red Maple		
White Pine		8	Log/XLog/Pole	14		White Pine		
Red Pine		7	XLog/Log/Pole	18		Dogwood (spp.)		
						<b>Density</b>	<b>Avg. Height</b>	
							<b>Size</b>	
<b>34</b>	500 - Water	Nonstocked	2.1		Unspecified	No	Pond ringed with lowland brush, dead jack pine saplings and living jack pine where it's high enough.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Willow spp.		Medium	5 - 10 feet	Tall Shrub				
Steeplebush		Low	5 - 10 feet	Tall Shrub				
Bulrush		Low	Unspecified	Non-Wood				
Cattail spp.		Low	Unspecified	Non-Wood				
Reed Canary Grass		Medium	Unspecified	Non-Wood				
Jack Pine		Low	>20 feet	Pole				
<b>35</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	78.6	51	81-110	N/A	Side and toe slopes leading down to swamp swale hold considerable amounts of fir. This stand was split from the aspen stand in the north due to slightly different species composition, leaning toward some northern hardwoods in some areas, as well as landforms. There are many small pits, which could be derived from pitted outwash. The soils are probably richer than the stand to the north.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole/Sapling	6		Sugar Maple		
Red Oak		15	Log/XLog	15		Beech		
Bigtooth Aspen		20	Pole/Log	8	51	Red Maple		
White Pine		1	XLog	24		Balsam Fir		
White Spruce		1	XLog	20		Ironwood		
Quaking Aspen		33	Pole	7	51	White Ash		
Paper Birch		3	Pole/Sapling	5		Witch Hazel		
Beech		2	Pole/Sapling	5		Blueberry/Bilberry/Cranberry		
Balsam Fir		15	Pole/Sapling	5		Hazelnut (Spp.)		
						<b>Density</b>		<b>Avg. Height</b>
							<b>Size</b>	
<b>36</b>	320 - Upland Shrub	Nonstocked	33.0	0	Unspecified	4211 - Planted Red Pine	Site was sprayed by helicopter on 9/4/19. Looks to have had very good control of undesirables. Planted on 5/5/2021 PRT trees. 950 TPA	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
<b>37</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	29.1	48	81-110	N/A	Healthy looking stand. Ash has fallen out of the stand. An almost pure stringer of big tooth aspen was joined to the aspen stand to the east. In the northwest, there is considerable white (mostly) and red pine. The densest pine extended for about 4 acres, making that area an interesting inclusion in this stand.																																																									
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<b>38</b>	4319 - Mixed Upland Forest	Poletimber Medium	10.4	57	51-80	N/A	A lot of saplings, especially on the margins. Basal area is mainly in pine 30-60 years old, probably a leave species in the last harvest. Pine seems to be growing readily. Otherwise, one of those kinda mixed up stands brought to you by species removals. I suspect the water table is close to the surface. Origin: "Mixed Bag Block", closed 12/12/1994.																																																									
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<b>39</b>	3104 - Degraded	Nonstocked	1.0		Unspecified		"Uncle Ray's Corners" Cutest name ever for a well pad.																																																									
<b>40</b>	3102 - Grass	Nonstocked	16.5		Unspecified	Managed Opening	Powerline corridor. Contains a good amount of big bluestem. The rest is primarily sedges with a few small trees clumped about.																																																									
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<b>41</b>	42110 - Planted Red Pine	Sawtimber Poor	6.3	90	51-80	N/A	There remains 50-60BA of red pine from a plantation begun in fall, 1931. Virtually all of the basal area in this stand is made up of these red pine. The understory is fully stocked with a relatively diverse range of species, including a considerable number of pin oak saplings. Across Stevens Spring Road, there's a bout an acre clearcut that regenerated chiefly in pin oak. It may be associated with the poorly stocked aspen sapling stand to the north. Since it doesn't seem to match anything closely in this compartment, it was "lumped" with the remains of the red pine plantation to the west.																																																									
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<b>42</b>	4123 - Red Oak	Sawtimber Medium	86.3	95	51-80	N/A	The last operation was a thinning. The site will mesify with a great preponderance of the regeneration layer consisting of red maple. Big tooth aspen is also common. There are some oak seedlings but they are relatively rare and face the challenge of browse. Some butt rot noted in the west. Otherwise seems relatively healthy.  37 QD plots yielded about 65 sqft BA																																																											
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<b>46</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	39.4	25	1-50	N/A	Kind of a cool stand with some decent diversity. Lots of wildlife trails. The big tooth aspen clone in the south is pretty impressive for its age.																																																											
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47	330 - Low-Density Trees	Nonstocked	37.4	0	Unspecified	4133 - Aspen, Mixed Pine	Regeneration monitoring failed. Red maple has not exceeded the browse height. Once it does, it should succeed as originally intended.																																													
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Two lowland pockets were delineated out of the stand area due to their being waterlogged. The northernmost of these two pockets is a sort of low density log-sized white pine swamp (Q stand) of about 60 years in age and which seems to share some characteristics with stand 52 and 108. The southernmost is its own emergent wetland marsh stand (stand 110). Sale number 54-026-13-01 "Bird Shot Aspen" completed in 2016																																																				
48	42210 - Natural Red Pine	Sawtimber Well	7.4	91	141-170	N/A	Ash saplings and seedlings are common in the understory. When combined with how common maple saplings are, it's likely this stand will mesify in the future unless significant measures are taken. On the oldest pines fire scars seem to indicate that at least one major wild fire ran NW to SE. Live crown ratios, especially in the center of the stand on suppressed trees are on the low side. Dominant and edge trees generally have a good live crown ratio. This must have been a very dense stand to begin with judging by tall relatively clean, self-pruned stems with a little sprig of green at the top. There seems to be room for a light thinning to remove some of the intermediate and suppressed trees but it probably should be done with care out of the concern for wind firmness and avoiding shocking the stand.																																													
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49	4199 - Other Mixed Upland Deciduous	Sapling Well	46.3	27	1-50	N/A	A few scattered Red Pine, probably CCC era. A surprising amount of birch!																																													
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50	4130 - Aspen	Poletimber Well	94.3	36	51-80	N/A	Several drainages/draws/valleys/ravines run from the heights in the east toward M-33. Some of these are too wet and include alder, northern white cedar and hemlock and may be fed by seeps or springs. These areas should be protected in future harvests.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>51</b>	4123 - Red Oak	Sawtimber Well	42.6	86	81-110	N/A	The portion west of the powerline right of way lacks a free to grow regeneration layer due to browse pressure. On the east side of the powerline, the regeneration layer is a red maple and aspen dog hair. Farthest east may be a former northern hardwood site judging on species present. The oak is medium quality or better. There are some very nice stems on the slopes and north faces.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		83	Log/XLog	15	86	Black Cherry		
Red Pine		3	Log/XLog	16		Red Maple		
Red Maple		1	Pole	6		Beech		
White Pine		5	Log/XLog/Pole	12		Bigtooth Aspen		
Beech		2	Pole/Log	9		White Pine		
Basswood		4	Log/Pole	10		Dogwood (spp.)		
Sugar Maple		2	Pole/Log	9		Ironwood		
<b>52</b>	4133 - Aspen, Mixed Pine	Poletimber Well	21.3	51	51-80	N/A	Aspen may originate from a sale in 1971. Red pine planted in fall 1931. Generally this stand is somewhat poor quality. There is a drainage the runs from the hill to the east through the southern half of the stand, as well as a small pond. The stand seems to have reasonable wildlife value.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		20	Sapling/Pole	4		Serviceberry (Juneberry)		
Red Oak		10	Sapling	3		Cherry (spp.)		
Quaking Aspen		48	Pole	6	51	Northern Pin Oak		
Red Pine		15	Log/XLog	16	91			
Jack Pine		7	Pole	7				
<b>53</b>	4131 - Aspen, Oak	Poletimber Well	15.1	36	51-80	N/A	Becoming a pole stand. Southeast holds more oak, bit of a grassy patch in the west. The clearcut portion of Wilson Trail Block, closed 01/02/1985.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		55	Pole/Sapling	6	36	Witch Hazel		
Red Oak		20	Pole/Sapling	6				
Red Maple		18	Sapling	2				
Red Pine		3	Log/Pole	11				
White Pine		2	Log/XLog/Pole	12				
Jack Pine		1	Pole/Sapling	6				
Balsam Fir		1	Sapling	2				
<b>54</b>	3102 - Grass	Nonstocked	1.6		Unspecified	No		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Red Pine		Low	5 - 10 feet	Sapling				
Black Cherry		Low	Variable	Sapling				
Sweet Fern		Full	< 5 feet	Tall Shrub				
Mixes Sedges/Grasses		High	Unspecified	Non-Wood				
Big Bluestem		Low	Unspecified	Non-Wood				
Witch Hazel		Low	5 - 10 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>55</b>	4131 - Aspen, Oak	Poletimber Well	39.5	37	1-50	N/A	This stand just graduated into the pole class. Areas of left oak south of trail from "The Greatest's Sale" closed 09/02/1994. Origin: Long Line Block. Closed 08/14/1984.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	50	Pole/Sapling	5	37	Cherry (spp.)	Low	10 - 20 feet	Tall Shrub
Quaking Aspen	10	Pole/Sapling	5		Serviceberry (Juneberry)	Low	Variable	Sapling
Red Oak	25	Pole/Sapling	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub

<b>56</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	20.2	86	51-80	N/A	Common northern hardwood species seem to run in bands: there's a band running east west in the northern half and another in the southwest. Red oak are typically significantly larger than other species in the stand. Ironwood is very dense, especially in the northeast quarter. I reckon you could continue thinning and tending but the quality doesn't seem very high. The basal area isn't very high. Once the beech drop out like the ash have the stand will be sort of sad looking.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Pole/Sap/Log	8		Beech	Medium	10 - 20 feet	Sapling
Basswood	5	Log/Pole	10		White Pine	Low	5 - 10 feet	Sapling
Beech	8	Pole/Log	8		Ironwood	High	5 - 10 feet	Tall Shrub
Red Oak	57	Log/Pole	13	86	Dogwood (spp.)	Low	< 5 feet	Tall Shrub
Paper Birch	1	Pole/Log	8					
Ironwood	1	Pole/Sapling	6					
White Pine	1	Pole/Sapling	6					
Red Pine	1	Log/XLog	14					
Bigtooth Aspen	1	Pole/Log	9					

<b>57</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	36.2	90	81-110	N/A	Much of the pine in this section originated from a plantation begun in 1931. Planted in the Fall, a mix of red pine, jack pine, and white pine. It seems it was planted in these proportions: white and red pine at 300 Trees/acre, red and jack pine at 800 trees/acre. The stand contains a few open-grown red oak that are probably 100-120 (estimate). In the east, there is a dual legacy white pine with fairly dense white pine regeneration around it. Numerous species cuts and thinnings occurred beginning in 1941, continuing in 1978 and 1983. Impressive hill in the west.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	3		Red Maple	High	>20 feet	Sapling
Red Oak	20	Log/XLog	16		White Pine	Low	Variable	Sapling
Bigtooth Aspen	15	Pole/Sapling	6	44	Red Oak	Low	Variable	Sapling
White Pine	20	Pole/Log/XLog	8					
Red Pine	40	Log/Pole	13	90				

<b>58</b>	3104 - Degraded	Nonstocked	0.9		Unspecified			
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Sub-Canopy Species	Density	Avg. Height	Size
Reed Canary Grass	Low	Unspecified	Non-Wood
Spotted Knapweed	Full	Unspecified	Non-Wood
Mixes Sedges/Grasses	High	Unspecified	Non-Wood
Little Bluestem	Low	Unspecified	Non-Wood
Red Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>59</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	29.9	27	1-50	N/A	The relative absence of aspen is a relief! A very considerable amount of paper birch. Some areas almost seem like pure birch. However there's a good contingent of (northern) hardwood species. Hopefully in the future this stand could be managed as a northern hardwood.																																																				
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<b>60</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.9	36	111-140	N/A	There's a surprising amount of red pine on the steep slope in the north. S13 s2 nene 14ac of clearcut closed 05/05/1978. Leave all white oak.																																					
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<b>61</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	24.1	91	111-140	N/A	Ash has fallen out of the stand. Quality doesn't look very good. Previous inventory mentions 'WP stumps to 40".'																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
62	330 - Low-Density Trees	Nonstocked	1.1		Unspecified	No	The stand examiner surmises this was a landing.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Medium	Variable	Sapling
								Red Oak	Low	Variable	Sapling
								Ironwood	Medium	Variable	Tall Shrub
								Sweet Fern	Medium	< 5 feet	Tall Shrub
								Black Cherry	Low	< 5 feet	Tall Shrub
								Spotted Knapweed	Low	5 - 10 feet	Non-Wood
								Red Pine	Trace	< 5 feet	Seeding
								White Ash	Medium	< 5 feet	Seeding
63	330 - Low-Density Trees	Nonstocked	3.0		Unspecified	No	Kind of a neat opening. Wondering if it was on purpose or if the opening was just so poor it doesn't grow trees easily. Two big, probably CCC era, red pine in the SE.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Sweet Fern	High	< 5 feet	Tall Shrub
								Black Cherry	Medium	Variable	Sapling
								White Pine	Low	Variable	Sapling
								Northern Pin Oak	Low	Variable	Sapling
								Mixed Grasses	High	Unspecified	Non-Wood
								Red Maple	Low	Variable	Sapling
64	623 - Emergent Wetland	Nonstocked	2.3		Unspecified	No					
								Sub-Canopy Species	Density	Avg. Height	Size
								Alder	Medium	5 - 10 feet	Tall Shrub
								Quaking Aspen	Trace	Variable	Sapling
								Paper Birch	Trace	Variable	Sapling
								Red Maple	Trace	Variable	Sapling
								Sedges	High	Unspecified	Non-Wood
								Steeplebush	Low	< 5 feet	Tall Shrub
								Balsam Fir	Trace	Variable	Sapling
								Leatherleaf	Medium	< 5 feet	Tall Shrub
								Gray Dogwood	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>65</b>	4123 - Red Oak	Sawtimber Well	59.6	106	81-110	N/A	<p>The oldest red pine are probably 130 years old based on recent cores. Growth ring patterns shows good growth for the first 60 years, then gradually slowing around 50-60 years ago. 30-40 years ago, there was a small release, which must be the 1984 thinning called "Wilson Trail Block". This was the leave all oak portion of the sale. Many areas are close to 100% oak coverage. The crowns seem proportionally narrow for their height in many cases. Areas that look open in aerial imagery are pockets that formerly contained ash and beech. Pine increases on the stand's North, West and South margins. Oak quality is the best in the center and East with many very clean stems. Oak quality diminishes as one moves away from these areas. Much elk sign. Perhaps 10% butt rot. Most of the stand is gently rolling. The steepest areas are along the northern stand margins. Oak regeneration does not exist in any appreciable form.</p> <p>Thinned 1984. Leave Oak portions of Wilson Trail Block closed 01/02/1985.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Oak	67	Log/XLog	15	106		Red Maple	Full	>20 feet	Sapling
	Red Maple	10	Pole/Sapling	6	36					
	Bigtooth Aspen	5	Pole/Sapling	7						
	White Pine	5	Log/XLog/Pole	13						
	Ironwood	2	Sapling/Pole	4						
	Beech	3	Pole/Log	8						
	Quaking Aspen	8	Pole	7						

<b>66</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	20.2	53	51-80	N/A	<p>A couple characteristics seem to separate this stand from its neighbors: the presence of a significant amount of sugar maple and the presence of fairly large diameter red oak. Stand boundaries formerly extended farther west and north but the stand examiner felt these matched the adjacent aspen stand more. In this area around the private 40 acre inholding, site quality increases. Presence of sharp-lobed hepatica.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Sugar Maple	25	Pole/Sapling	5	53		Beech	Medium	Variable	Sapling
	Basswood	5	Log/Pole	11			Ironwood	Medium	Variable	Sapling
	Beech	5	Pole/Sapling	6						
	Bigtooth Aspen	10	Pole	7	53					
	Ironwood	5	Sapling/Pole	3						
	Red Oak	20	Log/XLog/Pole	12						
	Paper Birch	7	Pole/Sapling	5						
	Red Maple	10	Pole	6						
	White Pine	3	XLog	26						
	Quaking Aspen	10	Pole	7						

<b>67</b>	4131 - Aspen, Oak	Poletimber Well	29.5	46	81-110	N/A	<p>Enough aspen to keep from merging with the stand to the south and east (mixed deciduous). Some butt rot noted in the red oak standards. In the north, a small pocket in which aspen has fallen apart, 1/4-1/2 acre. Probably a poor clone.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Oak	30	Log/XLog/Pole	13			Sugar Maple	Low	Variable	Sapling
	Quaking Aspen	15	Pole	7			Red Maple	Medium	Variable	Sapling
	Bigtooth Aspen	37	Pole	7	46		Black Cherry	Medium	< 5 feet	Sapling
	Red Maple	10	Pole/Sapling	5			Hazelnut (Spp.)	Medium	< 5 feet	Tall Shrub
	White Pine	2	Log/Pole	11			Beech	Trace	5 - 10 feet	Sapling
	Red Pine	5	Log/Pole	13			Dogwood (spp.)	Low	< 5 feet	Tall Shrub
	Balsam Fir	1	Pole/Sapling	5			White Ash	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>68</b>	4130 - Aspen	Poletimber Well	41.5	26	1-50	N/A	This stand has just crossed into the pole timber size class. The northern margins and southeast corners of the stand tend to contain more oak and red maple than can be found in the center and south, which is predominantly aspen. The stands eastern most portions seem to indicate a richer site quality evidenced by leatherwood and an increase in northern hardwoods associates. Red and white pine and, to some extent, white birch seem to increase in the drainages leading toward the west.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Sapling/Pole	2		Red Maple	Medium		10 - 20 feet	Sapling
Red Oak	15	Pole/Sapling	6		Black Cherry	Low		5 - 10 feet	Seeding
Paper Birch	8	Sapling	3		Leatherwood	Trace		< 5 feet	Tall Shrub
Bigtooth Aspen	60	Pole/Sapling	5	26	Dogwood (spp.)	Medium		< 5 feet	Tall Shrub
White Pine	2	Pole/Sapling	5		Witch Hazel	Low		5 - 10 feet	Tall Shrub
Ironwood	2	Sapling	2						
Red Pine	2	Pole	6						
Quaking Aspen	1	Sapling/Pole	4						
<b>69</b>	3104 - Degraded	Nonstocked	1.0		Unspecified				
Sub-Canopy Species	Density	Avg. Height	Size						
Mixes Sedges/Grasses	High	Unspecified	Non-Wood						
Sweet Fern	Low	< 5 feet	Tall Shrub						
Spotted Knapweed	Full	Unspecified	Non-Wood						
White Pine	Low	5 - 10 feet	Sapling						
<b>70</b>	4131 - Aspen, Oak	Poletimber Well	26.9	49	81-110	N/A	More oak in northern and southern portions. Productivity drops to the west.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	13	Pole/Sapling	5		Red Maple	Medium		Variable	Sapling
Red Oak	40	Log/XLog/Pole	13		Dogwood (spp.)	Low		< 5 feet	Tall Shrub
Bigtooth Aspen	20	Pole	7	49	Hazelnut (Spp.)	Low		5 - 10 feet	Tall Shrub
Quaking Aspen	20	Pole/Log	8	49	Witch Hazel	Low		5 - 10 feet	Tall Shrub
Paper Birch	1	Pole/Sapling	5		Balsam Fir	Trace		Variable	Sapling
Balsam Fir	1	Pole/Sapling	6		Wintergreen	Medium		< 5 feet	Tall Shrub
Red Pine	1	Log	12		Serviceberry (Juneberry)	Low		Variable	Sapling
White Pine	2	Log/XLog/Pole	12		Blueberry/Bilberry/Cranberry	Medium		< 5 feet	Tall Shrub
White Oak	1	Log/Pole	13						
Northern Pin Oak	1	Log/Pole	10						
<b>71</b>	3104 - Degraded	Nonstocked	1.0		Unspecified				
<b>72</b>	3102 - Grass	Nonstocked	3.2		Unspecified	No			
Sub-Canopy Species	Density	Avg. Height	Size						
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub						
Spotted Knapweed	High	Unspecified	Non-Wood						
Mixes Sedges/Grasses	High	Unspecified	Non-Wood						
Sweet Fern	Medium	< 5 feet	Tall Shrub						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>73</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	7.7	8	Immature	N/A	A few open patches. One was the landing. Also some scattered log size oak and pine for wildlife and aesthetics. Curiously, there's a little patch of natural red pine regen near M-33.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Bigtooth Aspen		35	Sapling	1	8				
Quaking Aspen		20	Sapling	1					
Red Maple		15	Sapling	1					
Red Oak		15	Sapling	1					
White Pine		5	Sapling	1					
Red Pine		5	Sapling	1					
Balsam Fir		5	Sapling	1					
<b>74</b>	3102 - Grass	Nonstocked	9.2		Unspecified	No			
<b>75</b>	4130 - Aspen	Poletimber Well	8.9	39	111-140	N/A	Perhaps the crummiest stand of aspen outside of stand 52 and stand 47. Generally the clones are poor quality and weak. Water table may be relatively close to the surface however. This is one of those stands that wants to be cut sooner than later.		
<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	3		Red Maple	High	10 - 20 feet	Sapling
Red Oak		8	Pole	6		White Pine	Medium	5 - 10 feet	Sapling
Quaking Aspen		85	Pole/Sapling	5	39				
White Pine		2	Pole	9					
<b>76</b>	4123 - Red Oak	Sawtimber Well	33.2	93	51-80	N/A	North of the trail, almost all oak are pole sized stump sprouts. South of the trail, oak is mainly log sized. Mature oaks seem to show butt rot commonly from what looks like old fire scars. Quality is about a low medium. It seems like the portion south of the trail would slowly convert to maple. The previous inventory stated an aspen species cut occurred in 1974.		
<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		20	Pole/Sapling	5	48	Red Maple	Medium	Variable	Sapling
Red Oak		63	Log/Pole	13	93	White Pine	Low	Variable	Sapling
Red Pine		5	Log/Pole	11		White Ash	Medium	Variable	Sapling
White Pine		2	Log/Pole/Sap	10		Serviceberry (Juneberry)	Low	Variable	Sapling
Bigtooth Aspen		10	Pole	7	48	Witch Hazel	Low	5 - 10 feet	Tall Shrub
<b>77</b>	4130 - Aspen	Poletimber Well	199.7	49	81-110	N/A	Quality seems to increase as one move north and west, generally.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling
Beech		5	Pole/Sapling	6		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen		60	Pole	8	49	Beech	Low	10 - 20 feet	Sapling
White Pine		3	Pole	5					
Sugar Maple		4	Pole/Sapling	5					
Balsam Fir		2	Pole/Sapling	6					
White Pine		3	XLog	25					
Red Pine		2	Log/XLog	16					
Quaking Aspen		6	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>78</b>	4131 - Aspen, Oak	Poletimber Well	94.8	51	81-110	N/A	Impressive tree heights in the north center and north west, up to 6-8 sticks. Signs of conk on some however. Despite being relatively high, it seems like the water table may be close to the surface. A drainage runs to the west and empties into stand 52. Climbing uphill and to the east, site productivity and tree quality drops along with tree heights, diameters and densities. There's a good amount of elk sign. Probably legacy red pine in the north east (platy bark, lightning scars, flat tops). Numerous pockets and stringers of oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	6	
Red Oak	20	Log/Pole/XLog	11	
Bigtooth Aspen	47	Pole/Log	8	51
White Pine	2	Log/Pole/XLog	11	
Red Pine	5	Log/XLog	16	
Quaking Aspen	10	Pole	7	
Paper Birch	2	Pole/Sapling	6	
Sugar Maple	1	Pole/Sapling	6	
Beech	1	Pole/Sapling	6	
Balsam Fir	2	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Beech	Medium	10 - 20 feet	Sapling
Ironwood	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Ash	Low	< 5 feet	Seeding

<b>80</b>	122 - Road/Parking Lot	Nonstocked	13.4		Unspecified	No	North-south trail
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Sub-Canopy Species	Density	Avg. Height	Size
Mixes Sedges/Grasses	High	Unspecified	Non-Wood
Balsam Fir	Low	Variable	Sapling

<b>84</b>	3102 - Grass	Nonstocked	6.8		Unspecified	No	
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<b>85</b>	3104 - Degraded	Nonstocked	1.2		Unspecified		
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Sub-Canopy Species	Density	Avg. Height	Size
Big Bluestem	Low	Unspecified	Non-Wood
Little Bluestem	Medium	Unspecified	Non-Wood
Sweet Fern	Medium	< 5 feet	Tall Shrub
Spotted Knapweed	High	Unspecified	Non-Wood
Sedges	Full	Unspecified	Non-Wood
Black Cherry	Medium	Variable	Sapling
Serviceberry (Juneberry)	Trace	Variable	Sapling
Northern Pin Oak	Low	10 - 20 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
Jack Pine	Low	5 - 10 feet	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**87**                    3102 - Grass                    Nonstocked                    2.2                    Unspecified                    Managed Opening

Sub-Canopy Species	Density	Avg. Height	Size
Timothy	Low	Unspecified	Non-Wood
Mixes Sedges/Grasses	Medium	Unspecified	Non-Wood
White Pine	Low	5 - 10 feet	Sapling
Red Oak	Low	< 5 feet	Seeding
Balsam Fir	Low	Variable	Sapling
Sweet Fern	Medium	< 5 feet	Tall Shrub
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Bigtooth Aspen	Low	< 5 feet	Sapling
Spotted Knapweed	High	Unspecified	Non-Wood

**90**                    6130 - Fir, Aspen, Maple                    Poletimber Well                    59.0                    44                    51-80                    N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	6	44
Quaking Aspen	5	Pole/Log	9	
Balsam Poplar	5	Pole/Log	9	
Balsam Fir	31	Pole/Sapling	6	44
Northern White Cedar	15	Log/Pole/XLog	12	137
White Pine	5	XLog	18	
Paper Birch	15	Pole/Sap/Log	6	86
American Elm	1	Pole	6	
White Spruce	3	Log	10	94

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub
Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Red Osier Dogwood	Low	< 5 feet	Tall Shrub

Periphery probably relates more to surrounding upland but the stand soon transitions to lowland swamp too wet to harvest. Because of the small size of these peripheral areas and the possibility of needing setbacks, the stand examiner chose to keep them within this lowland stand. The middle of the stand is non-productive featuring dense alder studded with stunted balsam fir, birch and red maple. There's a sort of pattern as one walks to the center: productive fir and spruce with red maple, birch, aspen; productive cedar (but generally too wet); non productive conifers in alder. This swamp had flow in its southern reaches in winter. Since it feeds into Brush Creek, this may be the headwaters.

**91**                    6112 - Lowland Aspen                    Poletimber Well                    30.5                    46                    81-110                    N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling/Pole	4	
Paper Birch	10	Pole/Sapling	5	
Bigtooth Aspen	10	Pole/Sapling	7	46
Balsam Fir	20	Pole/Sapling	6	
Quaking Aspen	36	Pole/Sapling	7	46
Black Cherry	1	Sapling	4	
Balsam Poplar	5	Pole	8	
Red Oak	1	Log	10	
Black Willow	1	Log	11	
American Elm	1	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	High	Variable	Sapling
Alder	Low	5 - 10 feet	Tall Shrub

Becomes increasingly wet to the east and south. Ruts and compaction evident from last harvest. Closely intermixed upland and lowland characteristics shift with only a few feet of elevation change.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>92</b>	3104 - Degraded	Nonstocked	1.0		Unspecified						
								Sub-Canopy Species	Density	Avg. Height	Size
								Little Bluestem	Medium	Unspecified	Non-Wood
								Big Bluestem	Low	Unspecified	Non-Wood
								Timothy	Low	Unspecified	Non-Wood
								Spotted Knapweed	High	Unspecified	Non-Wood
								Sedges	High	Unspecified	Non-Wood
								Quack Grass	Low	Unspecified	Non-Wood
								Sweet Fern	Low	< 5 feet	Tall Shrub
								Serviceberry (Juneberry)	Trace	Variable	Sapling
Black Cherry	Low	Variable	Sapling								
Red Pine	Low	< 5 feet	Seeding								

<b>93</b>	330 - Low-Density Trees	Nonstocked	1.3		Unspecified	No	Kind of a neat little opening. Attractive variation between saplings and tall pine.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Sweet Fern	Medium	< 5 feet	Tall Shrub
								Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
								Black Cherry	Low	Variable	Sapling
								Balsam Fir	Low	Variable	Sapling
								White Pine	Low	10 - 20 feet	Sapling
								Red Oak	Low	Variable	Sapling

<b>94</b>	6113 - Lowland Maple	Poletimber Medium	6.1	85	51-80	N/A	Estimate that the supercanopy white pine are 100-120. In the east, the canopy is largely intact. There's a surprising amount of oak regeneration in the north. The stand's west features dense saplings. There probably was a good canopy layer initially. Coarse woody debris looked like birch and aspen so these species may have fallen out. In general the stand seems fairly wet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	60	Pole/Log	8	85
								Quaking Aspen	5	Pole/Log	9	
								Balsam Fir	21	Pole	6	
								White Pine	5	XLog	25	
								Northern White Cedar	5	Pole/Log/Sap	6	
								Hemlock	1	Pole	6	
								Paper Birch	2	Log/Pole	10	
								White Spruce	1	Pole/Log	9	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	High	Variable	Sapling	
								Beech	Low	Variable	Sapling	
								Balsam Fir	High	Variable	Sapling	
								Red Oak	Low	Variable	Sapling	
Paper Birch	Low	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
95	320 - Upland Shrub	Nonstocked	1.1		Unspecified	No	Kind of a semi-open patch of trees and shrubs. It seems to relate to similarly open areas on the trail to the north and east. These were combined with stand since the area was small and stand 99 was most like the semi-open quality of the road. The remainder is made up of this stand. It has a kind of savanna-like feel.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Low	Variable	Sapling
								Balsam Fir	Low	Variable	Sapling
								Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
								Serviceberry (Juneberry)	Low	Variable	Tall Shrub
								Red Maple	Low	Variable	Sapling
								Red Oak	Trace	Variable	Sapling
								Red Pine	Low	>20 feet	Pole
								Black Cherry	Trace	Variable	Tall Shrub
								Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Paper Birch	Trace	Variable	Sapling								
96	3104 - Degraded	Nonstocked	0.9		Unspecified						
								Sub-Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Full	Unspecified	Non-Wood
								Mixes Sedges/Grasses	Full	Unspecified	Non-Wood
								Sweet Fern	Medium	< 5 feet	Tall Shrub
White Pine	Low	5 - 10 feet	Sapling								
97	622 - Lowland Shrub	Nonstocked	16.2		Unspecified	No	A beaver pond in the West, lowland brush in the East.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Alder	Medium	5 - 10 feet	Tall Shrub
								Michigan Holly	Low	5 - 10 feet	Tall Shrub
								Cattail spp.	Low	Unspecified	Non-Wood
								Rushes	High	Unspecified	Non-Wood
								Elm (Spp.)	Low	Variable	Sapling
								Balsam Poplar	Low	Variable	Sapling
								Paper Birch	Low	Variable	Sapling
								Red Maple	Low	Variable	Sapling
								Sedges	Medium	Unspecified	Non-Wood
								Willow spp.	Medium	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**98**      4130 - Aspen      Poletimber Well      5.7      47      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	7		Red Maple	Low	Variable	Sapling
Red Oak	2	Log/XLog	15	89	Black Cherry	Low	10 - 20 feet	Sapling
Bigtooth Aspen	60	Pole	8	53	Balsam Fir	Low	10 - 20 feet	Sapling
Red Pine	3	Log/Pole	15		Red Oak	Trace	Variable	Sapling
Paper Birch	2	Pole	6		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Quaking Aspen	20	Pole	8		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Balsam Poplar	3	Pole	8		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
					Elm (Spp.)	Trace	10 - 20 feet	Sapling
					Maple Leaved Viburnum	Medium	5 - 10 feet	Tall Shrub
					Autumn Olive	Trace	5 - 10 feet	Tall Shrub

**99**      6112 - Lowland Aspen      Poletimber Well      37.8      53      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Red Oak	5	Log/Pole/XLog	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	40	Pole	8	53	Beech	Low	10 - 20 feet	Sapling
White Pine	5	XLog/Log	18		Balsam Fir	Medium	10 - 20 feet	Sapling
Paper Birch	10	Pole/Sapling	6		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	3	Pole/Sapling	6		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Pine	5	Log/Pole	11		Red Oak	Trace	5 - 10 feet	Sapling
Black Cherry	2	Pole/Sapling	5					

Water stand in many low spots. The water table must be very close to the surface. Sort of 50/50 upland and lowland so it was hard to decide which it was. In the stand's west there is a small drainage the communicates with the swamp to the north. There are a number of legacy white pine in this stand.

**100**      3104 - Degraded      Nonstocked      0.7      Unspecified

Sub-Canopy Species	Density	Avg. Height	Size
Timothy	Low	Unspecified	Non-Wood
Mixes Sedges/Grasses	Medium	Unspecified	Non-Wood
White Pine	Low	5 - 10 feet	Sapling
Red Oak	Low	< 5 feet	Seeding
Balsam Fir	Low	Variable	Sapling
Sweet Fern	Medium	< 5 feet	Tall Shrub
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Bigtooth Aspen	Low	< 5 feet	Sapling
Spotted Knapweed	High	Unspecified	Non-Wood

**102**      320 - Upland Shrub      Nonstocked      12.0      0      Unspecified      4211 - Planted Red Pine      Sprayed by helicopter on 9/4/19. Looks to have been very effective. Planted on 5/5/2021  
PRT Seedlot MI0357  
7800 total trees for 1000 TPA



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
<b>103</b>	6112 - Lowland Aspen	Sapling Medium	13.7	5	Immature	N/A	There's a big open spot east of the well opening where the red maple has been browsed hard. Even so, it looks like a success with moderate stocking over all.																																																											
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<b>104</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	12.2	89	111-140	N/A	Pine remaining in this stand originated in the fall 1931 planting of red, jack and white pine. White and red planted at 300/acre. Red and jack planted at 800/acre. Area thinned 1993.																																																											
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<b>105</b>	122 - Road/Parking Lot	Nonstocked	0.6	0	Unspecified	No																																																												
<b>106</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	13.2	93	81-110	N/A	A widely scattered northern pin oak overstory. Most of these 90 year old trees are showing evidence of butt rot and cavities. Surrounding these are a fairly vigorous cohort of saplings which, one way or the other, will be the future of this stand.																																																											
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<b>107</b>	3102 - Grass	Nonstocked	0.8		Unspecified	Managed Opening	A continuation of the well opening to the north.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>108</b>	6127 - Lowland Pine	Poletimber Well	10.1	52	81-110	N/A	The stand makes up sort of a broad, shallow trough. The edge to the south almost seems like a straight E-W line that drops 3-5 feet. The soil generally seems firm but is covered almost entirely with wetland indicators. In the east-central portion there are sphagnum hummocks, bulrushes, steeple bush and dead flat ice which suggests holding water most of the year. The aspen generally seems to do poorly just as in stand 52 to the east and stand 47 to the south. Could it be an impermeable layer and a seasonally perched water table on generally poor soil? The pond in the west is ringed by dense jack pine which is joined by white pine in the south. Drainage to the stand seems to come from the SE and the E.																																																				
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<b>110</b>	623 - Emergent Wetland	Nonstocked	2.5		Unspecified	No	Previous inventories called this an opening. It could be that cutting the surrounding stand swamped this area with a high water table. Or it was always a wetland... Too wet.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**119** 4199 - Other Mixed Upland Deciduous Sapling Well 31.8 26 1-50 N/A There's a surprising amount of white oak spread throughout in clumps. The stand seems like ultimately it would be a scrub oak stand. There is potential to release oak precommercially to shift composition toward oak more quickly. Origin: "Mixed Bag Block", closed 12/12/1994.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
Northern Pin Oak	23	Sapling	2	26
Quaking Aspen	17	Sapling	3	26
White Pine	5	Pole/Log/Sap	8	
White Oak	15	Sapling	2	
Serviceberry (Juneberry)	5	Sapling	1	
Black Cherry	5	Sapling	2	
Red Pine	9	Log/XLog	15	89
Bigtooth Aspen	1	Sapling	3	

**125** 4131 - Aspen, Oak Poletimber Well 19.3 29 51-80 N/A Super confusing stand. It doesn't seem to relate well with any others around except maybe the aspen to the east. There's probably three different ages of aspen, some look up to 90, some around 50 and most, saplings and newly graduated poles, 29ish. Similarly, there are log-sized oak islands surrounded by saplings and small poles. Aspen quality is generally fairly low.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling/Pole	3		Serviceberry (Juneberry)	Low	Variable	Sapling
Red Oak	15	Pole/Log/Sap	7		White Pine	Medium	10 - 20 feet	Sapling
Quaking Aspen	35	Pole/Sapling	5	29	Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	3	Log/Pole	13					
Bigtooth Aspen	10	Pole/Sapling	6	29				
White Oak	1	Sapling	2					
Red Pine	1	Log	12					
Northern Pin Oak	5	Log/Pole	11					

**127** 42220 - Natural Jack Pine Poletimber Well 4.8 33 1-50 N/A Harvest with stands 57 and 41 in the next year of entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Pole/Sapling	5		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Northern Pin Oak	10	Log/Pole	11		Black Cherry	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	3	Pole/Sapling	6		Northern Pin Oak	Low	5 - 10 feet	Sapling
Black Cherry	2	Sapling	2		Wintergreen	High	< 5 feet	Tall Shrub
Red Pine	15	Log	13		Sweet Fern	Low	< 5 feet	Tall Shrub
Jack Pine	68	Pole	6	33	Witch Hazel	Low	5 - 10 feet	Tall Shrub

**129** 4130 - Aspen Poletimber Well 22.6 52 81-110 N/A Plucked out from imagery. Some pretty nice aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Red Maple	High	Variable	Sapling
Bigtooth Aspen	75	Pole/Log	8	52	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Pole	7		Serviceberry (Juneberry)	Low	Variable	Sapling
Red Oak	10	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>131</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	49.8	49	81-110	N/A	Probably this was a hardwood site. Round lobed hepatica and many hardwood saplings support this. Ash has dropped out of the stand. This stand separated from the larger aspen stand to the east due to change in site quality.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Sapling	5		Red Maple		Medium	Variable	Sapling
Beech		5	Pole/Sapling	6		Red Oak		Low	Variable	Sapling
Paper Birch		5	Pole/Sapling	5		Witch Hazel		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		30	Pole	7	49	Beech		Low	10 - 20 feet	Sapling
White Pine		2	Log/Pole	12		Ironwood		Medium	10 - 20 feet	Sapling
Bigtooth Aspen		25	Pole	8		White Pine		Medium	Variable	Sapling
Red Oak		10	Log/Pole/XLog	11		Sugar Maple		Low	Variable	Sapling
Red Pine		5	Log/XLog	15						
Sugar Maple		5	Sapling/Pole	4						
Ironwood		3	Sapling/Pole	3						
<b>132</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.6	43	1-50	N/A		Very poor quality aspen where it exists with the exception of 2 acres in the west. Conversion to pine might be a future option. There is a fair amount of oak, usually suppressed under aspen canopy. Northern pin oak and red pine standard that are about 90 years old from prior stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		38	Pole	7	43	Hawthorn (spp.)	Trace		5 - 10 feet	Tall Shrub
Northern Pin Oak		12	Sapling/Pole	4	26	Northern Pin Oak	Low		Variable	Sapling
Balsam Fir		2	Pole/Sapling	6		White Oak	Low		Variable	Sapling
Red Pine		15	Log/XLog	17	89	Blueberry/Bilberry/Cranberry	Medium		< 5 feet	Tall Shrub
Red Maple		23	Sapling/Pole	3		White Pine	Low		< 5 feet	Seeding
Serviceberry (Juneberry)		7	Sapling	2						
White Oak		3	Sapling	2						
<b>133</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	27.6	46	81-110	N/A	Species thinnings in 2008 converted this stand to one dominated by natural white pine. There is a scattered overstory of 80-90 year old oak but there are too few too widely separated for a reasonable harvest. Wait on those pine..			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		20	Log/XLog/Pole	12	89	Witch Hazel		Low	5 - 10 feet	Tall Shrub
Red Pine		5	Pole	8		Red Maple		Medium	Variable	Sapling
White Pine		57	Pole/Log/Sap	8	46	Beech		Low	5 - 10 feet	Sapling
Red Maple		5	Pole/Sapling	6		Bigtooth Aspen		Medium	Variable	Sapling
Sugar Maple		7	Pole/Sapling	5		White Pine		Low	Variable	Sapling
Basswood		3	Log/Pole	12		Ironwood		Low	5 - 10 feet	Tall Shrub
Ironwood		3	Sapling/Pole	3		Dogwood (spp.)		Medium	5 - 10 feet	Tall Shrub
<b>134</b>	6112 - Lowland Aspen	Poletimber Medium	5.0	53	51-80	N/A		Pulp stick diameter serviceberry in the north! This lowland aspen stand is at the toe slope of the uplands to the north grading into a beaver pond.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		50	Pole/Log	9	53	Balsam Fir	Medium		10 - 20 feet	Sapling
Red Oak		10	Pole	7		Michigan Holly	Medium		5 - 10 feet	Tall Shrub
Red Maple		15	Pole/Log	7		Alder	Medium		5 - 10 feet	Tall Shrub
Balsam Fir		23	Sapling/Pole	4		Serviceberry (Juneberry)	Low		Variable	Sapling
Black Cherry		2	Sapling/Pole	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>137</b>	4319 - Mixed Upland Forest	Sawtimber Poor	15.3	91	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	34	Sapling/Pole	4	29
Red Oak	3	Log/Pole/XLog	11	
Quaking Aspen	10	Pole	6	91
Red Pine	40	Log/XLog	16	91
Jack Pine	7	Pole	7	
White Pine	1	Pole/Log	9	
Bigtooth Aspen	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	10 - 20 feet	Sapling
Cherry (spp.)	Medium	10 - 20 feet	Tall Shrub

Broken overstory of planted red pine established in fall 1931 according to records. Dense red maple saplings approaching merchantable size. About 80% of the merchantable basal area in this stand is log and large sawlog sized red pine.

Much of the pine in this section originated from a plantation begun in 1931. Planted in the Fall, a mix of red pine, jack pine, and white pine. It seems it was planted in these proportions:  
white and red pine at 300 Trees/acre, red and jack pine at 800 trees/acre. This stand has seen two thinnings previously, one in 1979, and another in 1993 Logs: JP, RO, Pine, Mx Aspen. Pulp: all of the above plus red maple.