



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54122

Entry Year 2024

Acreage: 1,752

County Presque Isle

Management Area: Cheboygan Lake Plain

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**Stand Examiner:** Richard Barber

**Legal Description:**

T33N, R2E, Sec. 28, 29, 30, 31, 32 & 33

**Identified Planning Goals:**

Timber production and water quality protection.

**Soil and topography:**

This compartment consists primarily of gently rolling sands supporting PVCd to PARVHa habitat types. This is subdivided by a network of cold water streams and associated wetlands. The streams feed into Canada Creek.

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

Lands to the west, north and east are mostly other state land, plus a scattering of hunting properties. There is a forty acre subdivision within the compartment. To the south is Canada Creek Ranch.

**Unique Natural Features:**

One or more occurrences have been reported for this compartment. This may result in seasonal restrictions for several timber treatments.

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

One or more occurrences have been reported for this compartment.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

Canada Creek and Oxbow Creek are high priority trout streams. Other cold water streams feed into them.

**Wildlife Habitat Considerations:**

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

No active sand/gravel pits occur in the area. There appears to be some sand & gravel potential in the compartment on the uplands. The Antrim Shale appears to be very thin or absent beneath the compartment, and any Antrim gas wells in this area would be marginal at best, but more likely uneconomical at current gas prices. There has been past production from Silurian reef reservoirs just to the north. Several wells have been drilled beneath the compartment to test for reef reservoirs, and all have been dry holes. There may still be some potential for future reef discoveries beneath the compartment. Some active mineral leases remain in the compartment that are associated with old agreements and are held by production occurring outside the compartment. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Access is very good.

**Survey Needs:**

Surveying may be required for timber sale preparation.  
Recreational

**Recreational Facilities and Opportunities:**

There is one MCCCT, running down Bear Den Lake Road. Also fishing access to Bear Den Lake and Canada Creek.

**Fire Protection:**

Access and water sources are good. Much of the jack pine is fairly young.

**Additional Compartment Information:**

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

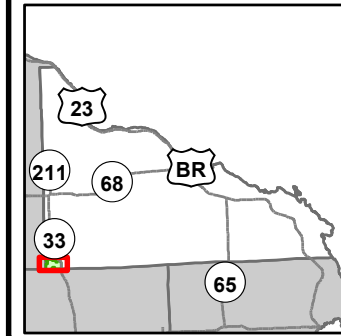
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

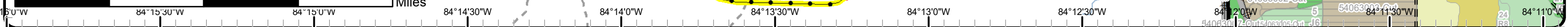
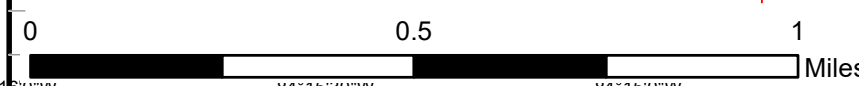
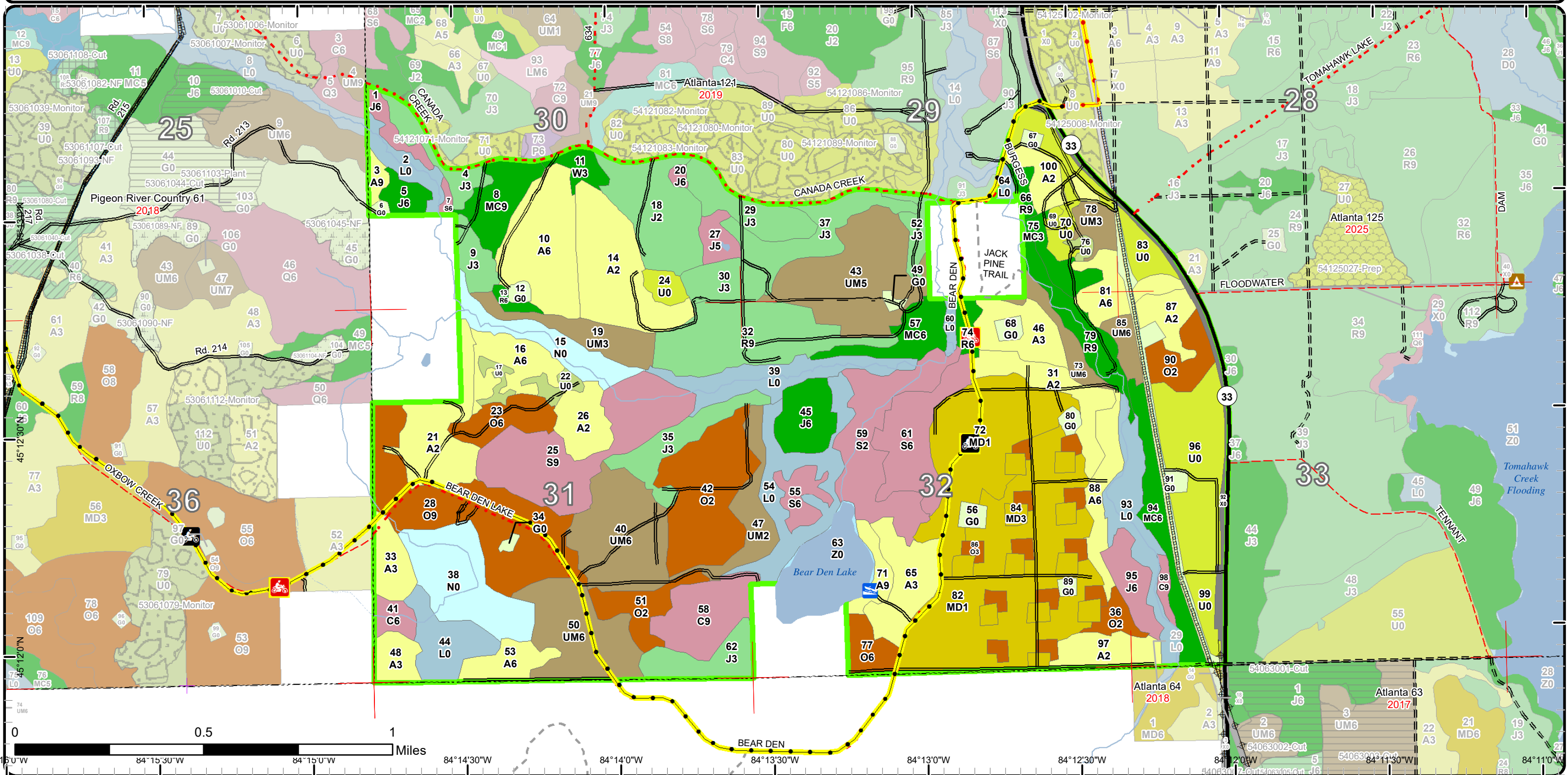
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 122  
 T33N, R02E, Sec. 28-33  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Cheboygan Lake Plain  
 YOE: 2024  
 Acres: 1752.1 GIS Calculated  
 Examiner: Richard Barber  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review

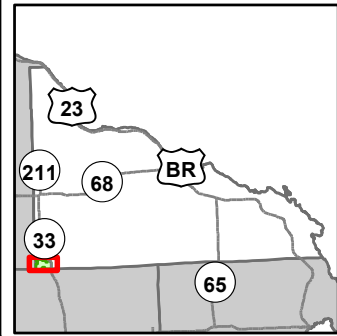


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV License
- ORV License & Trail Permit
- Michigan Cross Country Cycle Trail (MCCCT)
- Boating Access Site
- Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

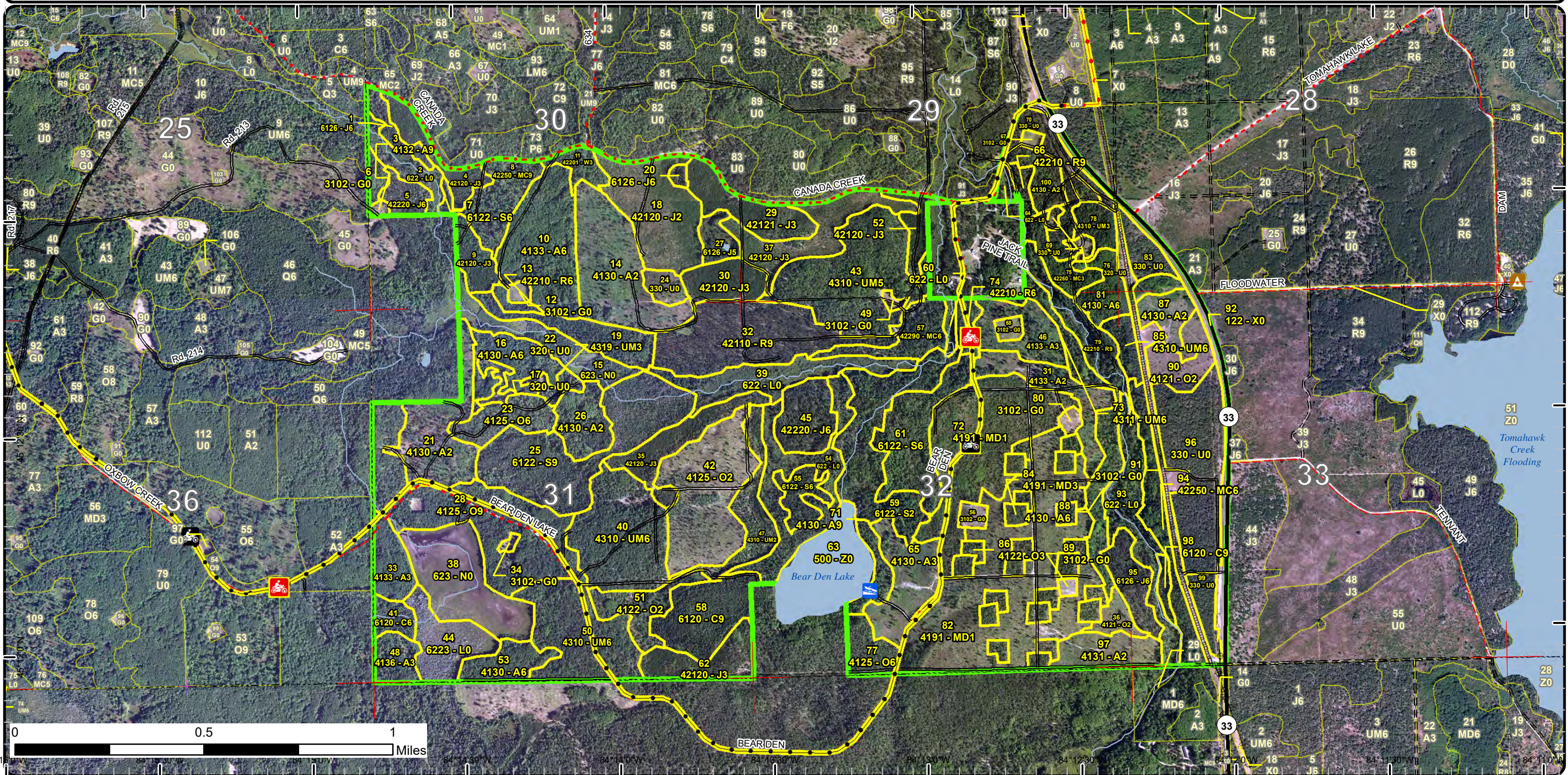


# Stand Boundary Map

Compartment: 122  
 T33N, R02E, Sec. 28-33  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Cheboygan Lake Plain  
 YOE: 2024  
 Acres: 1752.1 GIS Calculated  
 Examiner: Richard Barber  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review



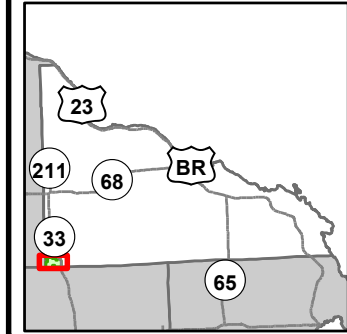
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (SOS License)
- 🚲 MCCCT Trails
- ORV License
- ORV License & Trail Permit
- Michigan Cross Country Cycle Trail (MCCCT)
- 🚤 Boating Access Site
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- 412 - Oak Types
- 413 - Aspen



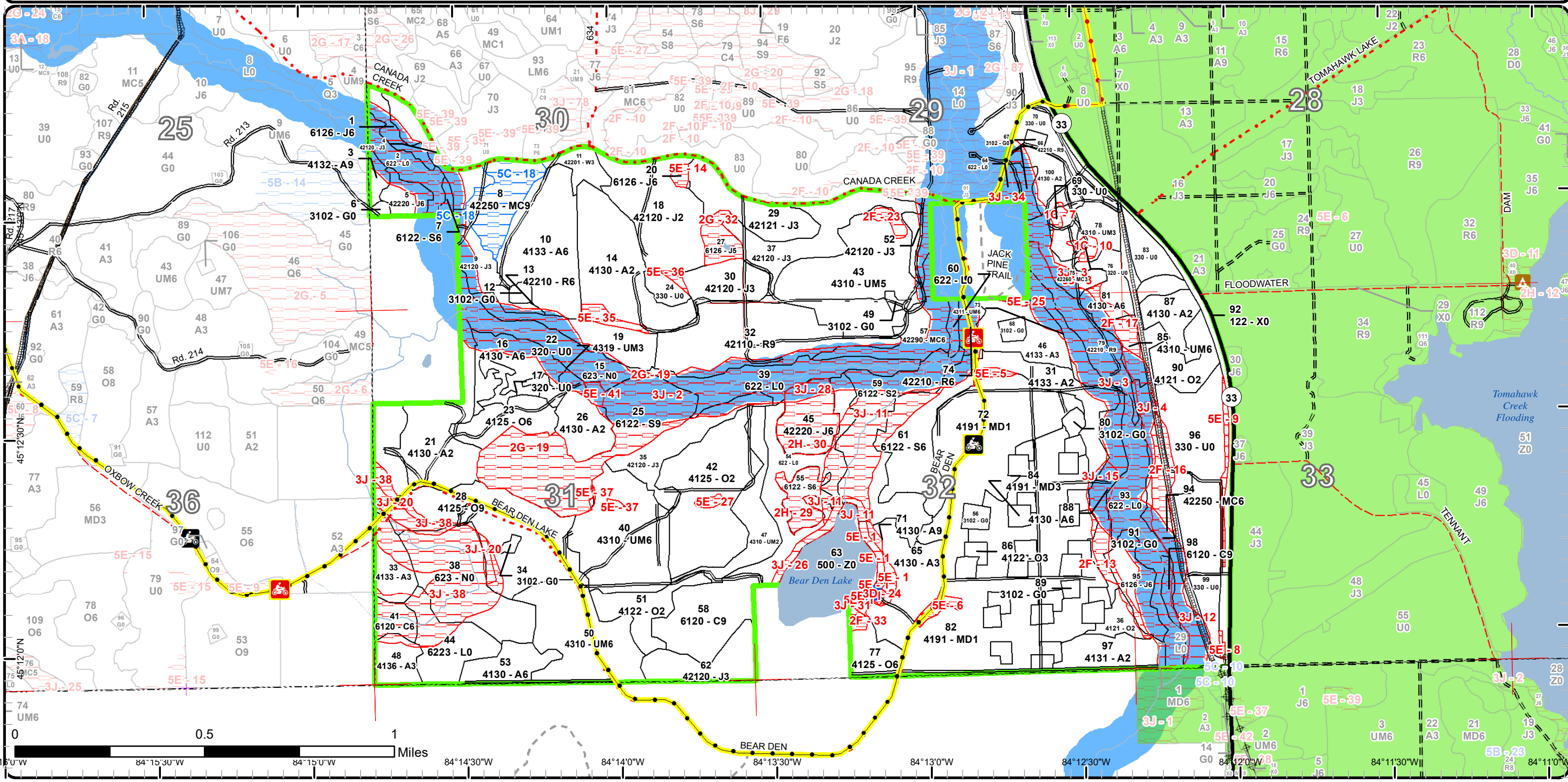
0 0.5 1 Miles

# Special Conservation Areas

Compartment: 122  
 T33N, R02E, Sec. 28-33  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Cheboygan Lake Plain  
 YOE: 2024  
 Acres: 1752.1 GIS Calculated  
 Examiner: Richard Barber  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
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- Private - Dirt / Gravel Road
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- MCCCT Trails
- ORV License
- ORV License & Trail Permit
- Michigan Cross Country Cycle Trail (MCCCT)
- Boating Access Site
- ▲ Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- 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)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer



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	155	30	18	76	0	4	0	0	35	0	0	0	0	0	0	0	0	318
Cedar	0	0	0	0	0	0	0	0	0	0	27	9	0	0	0	0	0	0	35
Herbaceous Openland	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Jack Pine	0	0	61	98	0	0	7	6	0	39	0	0	0	0	0	0	0	0	210
Low-Density Trees	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Lowland Shrub	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Lowland Spruce/Fir	0	0	0	0	71	0	0	0	2	0	64	0	0	0	0	0	0	0	136
Marsh	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Mixed Upland Deciduous	0	94	60	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Natural Mixed Pines	0	0	0	0	0	10	0	0	0	36	18	0	0	0	0	0	0	0	64
Oak	0	67	19	15	0	0	0	0	0	90	0	0	0	0	0	0	0	0	190
Red Pine	0	0	0	0	3	0	0	48	0	27	0	0	0	0	0	0	0	0	77
Upland Mixed Forest	0	0	0	18	68	0	7	0	0	102	0	0	0	0	0	0	0	0	195
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
White Pine	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>346</b>	<b>316</b>	<b>170</b>	<b>170</b>	<b>225</b>	<b>10</b>	<b>18</b>	<b>54</b>	<b>2</b>	<b>329</b>	<b>109</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1752</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 122

Total Compartment Acres: 1,752

Commercial Harvest - 176  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	12	0	0	0	0	0	0	0	0	12
Oak	77	0	0	0	0	0	0	0	0	77
Upland Mixed Forest	88	0	0	0	0	0	0	0	0	88
<b>Total</b>	<b>177</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>177</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	177	37	0	0	0	12	52	0	14	292
Next Step	0	52	0	0	0	89	189	0	0	329
<b>Total</b>	<b>177</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>101</b>	<b>241</b>	<b>0</b>	<b>14</b>	<b>621</b>



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

<b>6</b>	<b>54122006-NF</b>	1.2	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>12</b>	<b>54122012-NF</b>	2.0	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>23</b>	<b>54122023-Ccr</b>	14.5	4125 - Black, N. Pin Oak	Poletimber Well	83	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species overall mix. Shortwood only. Avoid excessively steep slopes, if present.</p> <p><u>Specs:</u></p> <p>If natural regeneration fails, trench and plant red pine. Acceptable regeneration will then be planted red pine, Site prep may require thermal, chemical or mechanical methods.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, aspen, maple, fir, birch, pine.</p> <p><u>Regen:</u> Plan B: planted red pine.</p> <p><u>Other</u> Use current, standard trail specs for safety and infrastructure protection, if decking near Bear Den Lake Road. .</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>28</b>	<b>54122028-Ccr</b>	52.8	4125 - Black, N. Pin Oak	Sawtimber Well	83	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species overall mix. Shortwood only. Avoid excessively steep slopes, if present. If natural regeneration fails, trench and plant red pine. Acceptable regeneration will then be planted red pine, Site prep may require thermal, chemical or mechanical methods.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Oak, aspen, maple, fir, birch, pine. Plan B: planted red pine.

Regen:

Other Use current, standard trail specs for safety and infrastructure protection along MCCCT Trail.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>34</b>	<b>54122034-NF</b>	1.0	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>43</b>	<b>54122043-Ccr</b>	49.1	4310 - Pine, Oak Mix	Poletimber Medium	83	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be in pre-existing hard factored areas that are representative of the treatment's species overall mix. Shortwood only. Avoid excessively steep slopes and Oxbow Creek priority trout stream buffer.

If natural regeneration fails, trench and plant red pine. Acceptable regeneration will then be planted red pine, Site prep may require thermal, chemical or mechanical methods.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Oak, aspen, maple, fir, birch, pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>49</b>	<b>54122049-NF</b>	1.3	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>50</b>	<b>54122050-Cut</b>	38.6	4310 - Pine, Oak Mix	Poletimber Well	83	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Specs: Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species overall mix. Shortwood only. Avoid excessively steep slopes, if present. Protect white pine regeneration.

If natural regeneration fails, trench and plant red pine. Acceptable regeneration will then be planted red pine, Site prep may require thermal, chemical or mechanical methods.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Oak, aspen, maple, fir, birch, pine. Plan B: planted red pine.

Other Comment: Use current, standard trail specs for safety and infrastructure protection along MCCCT Trail.

Site Condition

Proposed Start Date: 10/1 /2023

<b>53</b>	<b>54122053-Ccr</b>	12.1	4130 - Aspen	Poletimber Well	83	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species overall mix. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres.

If natural regeneration fails, trench and plant red pine, over at least a portion of the stand to be determined by the TMS. Acceptable regeneration will then be planted red pine, Site prep may require thermal, chemical or mechanical methods.

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

Acceptable Regen: Aspen, maple, oak, fir, birch, pine.  
Plan B: planted red pine.

Other Comment: Use current, standard trail specs for safety and infrastructure protection, if decking near Bear Den Lake Road.

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>56</b>	<b>54122056-NF</b>	2.9	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>67</b>	<b>54122067-Spray</b>	1.5	3102 - Grass	Nonstocked		Pesticide	Other - Specify	3102 - Grass		No
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Prescription Herbicide treatment to eradicate Scots pine. Treat with stand 70.

Specs:

Next Step

Monitoring, Herbicide Use

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>68</b>	<b>54122068-NF</b>	2.5	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>70</b>	<b>54122070-Prep</b>	16.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Opposing weave for KW jack pine. Use current, standard trail specs for safety and infrastructure protection.

Specs:

Next Step

Pesticide, Skidder - Site Prep

Treatments:

Acceptable

Planted jack pine free of Scots pine.

Regen:

Other

There are two objectives for this stand--eradicating Scots pine and planting KW jack pine.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
77	54122077-Cut	9.4	4125 - Black, N. Pin Oak	Poletimber Well	83	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut. Shortwood only. Avoid excessively steep slopes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, aspen, maple, fir, birch, pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use current, standard trail specs for safety and infrastructure protection along MCCCT Trail.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
80	54122080-NF	2.1	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other</p> <p><u>Specs:</u> agriculture practices.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
83	54122083- Prep	8.4	330 - Low-Density Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Opposing weave for KW jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted jack pine free of Scots pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> There are two objectives for this stand--eradicating Scots pine and planting KW jack pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
87	54122087- Spray	10.6	4130 - Aspen	Sapling Medium	4	Immatur re	Pesticide	Hand Application	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Herbicide treatment to eradicate Scots pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Mixed Deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
89	54122089-NF	1.4	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
96	54122096-Monitor	44.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> re-evaluate jack pine and oak regeneration in three years to determine if minimum stocking levels have been met.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of</p> <p><u>Regen:</u> aspen, jack pine, oak, red pine, or white pine resulting in a medium or well stocked stand</p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
99	54122099-Monitor	7.1	330 - Low-Density Trees	Nonstocked	0	Immature	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> re-evaluate jack pine and oak regeneration in three years to determine if minimum stocking levels have been met.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
100	54122100-Prep	11.7	4130 - Aspen	Sapling Medium	4	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Opposing weave for KW jack pine. Roller coping may be necessary. Use current, standard trail specs for safety and infrastructure protection.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted KW jack pine free of Scots pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> There are two objectives for this stand--eradicating Scots pine and planting KW jack pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 291.8

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber: Examiner

Compartment: 122  
Year of Entry: 2024

### Availability for Management

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

### Dominant Site Conditions

	Availability for Management			Dominant Site Conditions									
	Acres	Available	With Condition	5C	1C	2F	2G	2H	3D	3J	5E		
318	259	0	58	Aspen		0	5	0		1	42	10	
36	26	0	9	Cedar							9		
35	29	0	6	Herbaceous Openland			3				3		
210	151	0	59	Jack Pine			2	7	13		36	2	
84	76	0	8	Low-Density Trees		1	1				1	5	
118	36	0	82	Lowland Shrub					0		82		
136	33	0	103	Lowland Spruce/Fir				38	8		56	0	
58	12	0	47	Marsh							47	0	
176	172	0	3	Mixed Upland Deciduous			0				0	3	
64	8	18	38	Natural Mixed Pines	18		4				33		
190	175	0	15	Oak			2				12	1	
77	44	0	32	Red Pine							32	0	
195	168	0	27	Upland Mixed Forest			5				20	1	
10	6	0	4	Upland Shrub		2					2	0	
18	18	0	0	Urban									
22	21	0	0	Water			0			0	0		
7	7	0	0	White Pine									
1,752	1,243	18	491	Total Forested Acres	18	3	23	45	22	1	375	21	
	71%	1%	28%	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	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	160	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							

## Report 4 – Site Conditions

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3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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10	<b>Unavailable</b>	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cold water stream buffer.							
12	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	12	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							
13	<b>Unavailable</b>	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	5E: Long-Term Retention	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Treed bog.							
15	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	6	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							
16	<b>Unavailable</b>	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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17	<b>Unavailable</b>	<b>2F: Too steep</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<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>							
19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Was a part of timber sale 54-046-14, but loggers had issues with the soil being too wet.							
20	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Unavailable</b>	<b>2F: Too steep</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> boating access site							

## Report 4 – Site Conditions

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Richard Barber : Examiner

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25	Unavailable	5E: Long-Term Retention	1	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

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31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	2F: Too steep	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							
35	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Atlanta Mgt. Unit**  
**Richard Barber: Examiner**

**Compartment: 122**  
**Year of Entry: 2024**

38	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	51	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> cold water stream buffer.							
41	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fisheries Div. Riparian Vegetation Protection Policy-Cold Water Stream							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	6126 - Lowland Jack Pine	Poletimber Well	6.1	63		N/A	a bit of high ground along Canada Creek Highway.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>3</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>37</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>60</td> <td>Pole</td> <td>6</td> <td>63</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	3	Pole	9		Black Spruce	37	Sapling/Pole	4		Jack Pine	60	Pole	6	63	<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>Tag Alder</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	10 - 20 feet	Tall Shrub																	
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Tag Alder	Medium	10 - 20 feet	Tall Shrub																																													
2	622 - Lowland Shrub	Nonstocked	10.4			No																																										
3	4132 - Aspen, Jack Pine	Sawtimber Well	3.5	55	51-80	N/A	03/08/2012 data.																																									
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4	42120 - Planted Jack Pine	Sapling Well	12.2	26	Immature	N/A																																										
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5	42220 - Natural Jack Pine	Poletimber Well	7.0	55		N/A	03/08/2012 data.																																									
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6	3102 - Grass	Nonstocked	1.2			Managed Opening																																										
7	6122 - Black Spruce	Poletimber Well	1.6	71		N/A	03/14/2012 data.																																									
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Tag Alder	High	5 - 10 feet	Tall Shrub																																													
8	42250 - Pine, Oak	Sawtimber Well	18.4	92	51-80	N/A																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>9</b>	42120 - Planted Jack Pine	Sapling Well	9.3	26	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		100	Sapling/Pole	4	26		

<b>10</b>	4133 - Aspen, Mixed Pine	Poletimber Well	39.5	37	1-50	N/A	a patch in the north has a higher white pine content.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		63	Pole	5	37		
White Pine		10	Pole	6			
Red Pine		10	Log	12			
Red Maple		10	Sapling/Pole	3			
Jack Pine		7	Sapling/Pole	4			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
White Pine		Medium	10 - 20 feet	Sapling			

<b>11</b>	42201 - Natural White Pine, Mixed Deciduous	Sapling Well	6.8	37	1-50	N/A	red pine and white pine sawtimber along road.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		60	Sapling		37		
Bigtooth Aspen		20	Sapling	3			
Red Pine		10	Log	13	90		
Red Oak		5	Log	12			
Red Maple		5	Sapling	2			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Oak (spp.)		Medium	5 - 10 feet	Sapling			

<b>12</b>	3102 - Grass	Nonstocked	2.0			Managed Opening	
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<b>13</b>	42210 - Natural Red Pine	Poletimber Well	2.7	37	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		10	Sapling	4			
Black Spruce		5	Pole	5			
Red Pine		70	Pole	8	37		
Jack Pine		10	Pole	6			
Balsam Fir		5	Pole	6			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Spruce		Medium	< 5 feet	Sapling			

<b>14</b>	4130 - Aspen	Sapling Medium	42.0	6	Immature	N/A	54-046-14, Tip Steak Mix. Cut 2018.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		10	Log	13			
Bigtooth Aspen		87	Sapling	1	6		
White Pine		3	Sapling/Pole	4			

<b>15</b>	623 - Emergent Wetland	Nonstocked	20.4			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4130 - Aspen	Poletimber Well	17.7	26	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		85	Pole	6	26	Cherry (spp.)	
Jack Pine		10	Sapling	3		Low	Variable
White Pine		5	Sapling	3			Tall Shrub
17	320 - Upland Shrub	Nonstocked	3.5				No
18	42120 - Planted Jack Pine	Sapling Medium	36.1	17	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		100	Sapling	1	17		
19	4319 - Mixed Upland Forest	Sapling Well	17.7	37	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		45	Sapling/Pole	4		White Pine	
White Pine		7	Pole	5		Low	5 - 10 feet
Black Spruce		48	Pole	5	37		Sapling
20	6126 - Lowland Jack Pine	Poletimber Well	1.6	83		N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		100	Pole/Log	9	83	Jack Pine	
						Low	< 5 feet
							Sapling
21	4130 - Aspen	Sapling Medium	29.9	16	1-50	N/A	scattered residual oak sawtimber.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		3	Sapling/Pole	4			
Bigtooth Aspen		80	Sapling	2	16		
Red Oak		17	Sapling	1			
22	320 - Upland Shrub	Nonstocked	4.5				No
23	4125 - Black, N. Pin Oak	Poletimber Well	14.5	83	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Northern Pin Oak		88	Pole/Log	9	83	White Pine	
Jack Pine		2	Pole	5		Low	10 - 20 feet
Red Maple		5	Pole/Sapling	5		Low	< 5 feet
Red Pine		2	Log	12		Low	10 - 20 feet
White Oak		3	Log/Pole	11			Sapling
24	330 - Low-Density Trees	Nonstocked	5.4	0		No	54-046-14, Tip Steak Mix. Cut 2018. A few scattered jack pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>25</b>	6122 - Black Spruce	Sawtimber Well	54.8	92		N/A	01/26/13 data. Was part of sale 54-046-14. Unit was started but not completed due to wet ground. portions which were cut are now stumps and cattails.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		5	Pole	7		Balsam Fir	High	10 - 20 feet	Sapling
Black Spruce		65	Log	11	92	Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar		30	Pole	9					
<b>26</b>	4130 - Aspen	Sapling Medium	14.7	4	Immature	N/A	Part of 54-046-14, Tip Steak Mix.		
<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		7	Sapling	1		Jack Pine	Low	< 5 feet	Sapling
Bigtooth Aspen		90	Sapling	1	4				
White Pine		3	Pole/Log	9					
<b>27</b>	6126 - Lowland Jack Pine	Poletimber Medium	6.8	83	1-50	N/A	bog with open water at center.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		100	Pole	9	83	Jack Pine	Low	< 5 feet	Sapling
<b>28</b>	4125 - Black, N. Pin Oak	Sawtimber Well	64.5	83	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		10	Log/Pole	12		Oak (spp.)	Low	5 - 10 feet	Sapling
Jack Pine		10	Pole	7		White Pine	Low	5 - 10 feet	Sapling
White Pine		5	Pole	6					
Northern Pin Oak		65	Log/Pole	10	83				
Quaking Aspen		10	Pole	8					
<b>29</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	19.5	26	Immature	N/A	Seeded with Sigma seeder		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Northern Pin Oak		25	Sapling	2					
Jack Pine		75	Sapling	3	26				
<b>30</b>	42120 - Planted Jack Pine	Sapling Well	13.4	26	Immature	N/A	seeded with Sigma seeder, 1996		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		5	Sapling	2					
Jack Pine		95	Sapling	3	26				
<b>31</b>	4133 - Aspen, Mixed Pine	Sapling Medium	19.9	7	Immature	N/A	Cut 2015. Rib Rack Mix 54-045-14.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		60	Sapling	1	7	White Pine	Low	< 5 feet	Sapling
White Pine		29	Pole/Sap/Log	9					
Black/Red (Hybrid) Oak		11	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>32</b>	42110 - Planted Red Pine	Sawtimber Well	47.7	62	111-140	N/A	This stand was third row thinned, except for the southern portion in the cold water stream site condition, in 2016. Sale No. 54-025-14-01; Sale Name: Delmonico Red 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 Pine		100	Log	11	62	Oak (spp.)		Low	< 5 feet	Sapling
<b>33</b>	4133 - Aspen, Mixed Pine	Sapling Well	12.1	37	1-50	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		3	Sapling	2		Red Maple		Low	10 - 20 feet	Sapling
White Pine		10	Sapling/Pole	4		Balsam Fir		Low	5 - 10 feet	Sapling
Red Pine		25	Sapling/Pole	4						
Red Maple		5	Sapling	3						
Quaking Aspen		57	Pole/Sapling	5	37					
<b>34</b>	3102 - Grass	Nonstocked	1.0				No			
<b>35</b>	42120 - Planted Jack Pine	Sapling Well	18.7	26	Immature	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Northern Pin Oak		10	Sapling	2						
Jack Pine		90	Sapling	2	26					
<b>36</b>	4121 - Oak, Aspen	Sapling Medium	6.0	7	Immature	N/A	Cut 2015. Rib Rack Mix 54-045-14.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Black/Red (Hybrid) Oak		70	Sapling	1	7	Scotch Pine	Medium	< 5 feet	Sapling	
Bigtooth Aspen		30	Sapling	1						
<b>37</b>	42120 - Planted Jack Pine	Sapling Well	24.5	17	Immature	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Jack Pine		100	Sapling	1	17					
<b>38</b>	623 - Emergent Wetland	Nonstocked	37.9				No			
<b>39</b>	622 - Lowland Shrub	Nonstocked	25.2				No			
<b>40</b>	4310 - Pine, Oak Mix	Poletimber Well	43.0	37	1-50	N/A	New stand added.			
<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		Oak (spp.)	High	5 - 10 feet	Sapling	
White Oak		5	Pole/Sapling	5						
Northern Pin Oak		45	Pole/Sapling	5	37					
White Pine		38	Pole/Log	9						
Jack Pine		7	Sapling	4						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>41</b>	6120 - Lowland Cedar	Poletimber Well	6.3	106		N/A	free flowing stream present. 2012 data.																																																			
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<b>42</b>	4125 - Black, N. Pin Oak	Sapling Medium	46.9	4	Immature	N/A	54-046-14, Tip Steak Mix.																																																			
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<b>43</b>	4310 - Pine, Oak Mix	Poletimber Medium	53.9	83	51-80	N/A	orv issues east edge. Very diverse stand for compartment. BA around 80. Oak and jp starting to look rough. low parvha site.																																																			
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<b>44</b>	6223 - Inundated Shrub Swamp	Nonstocked	19.9			No																																																				
<b>45</b>	42220 - Natural Jack Pine	Poletimber Well	16.8	85		N/A	03/08/2012 data. Barely upland leatherleaf and bracken fern, but central part has reindeer lichen.																																																			
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<b>46</b>	4133 - Aspen, Mixed Pine	Sapling Well	17.3	7	Immature	N/A	cut 2015. Rib Rack Mix 54-045-14.																																																			
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<b>47</b>	4310 - Pine, Oak Mix	Sapling Medium	17.7	25	1-50	N/A																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48 4136 - Aspen, Mixed Conifer Sapling Well 9.3 37 N/A

49 3102 - Grass Nonstocked 1.3 Managed Opening

50 4310 - Pine, Oak Mix Poletimber Well 38.6 83 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log	10		White Pine	High	10 - 20 feet	Sapling
Northern Pin Oak	40	Pole/Log	8		Oak (spp.)	Medium	5 - 10 feet	Sapling
White Pine	7	Sapling/Pole	4					
Red Maple	3	Pole	6					
Jack Pine	45	Pole	8	83				

51 4122 - Oak, Pine Sapling Medium 14.7 26 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Sapling	1		Oak (spp.)	Medium	< 5 feet	Sapling
Jack Pine	15	Sapling	4					
Quaking Aspen	10	Sapling	2					
Northern Pin Oak	60	Sapling	1	26				

52 42120 - Planted Jack Pine Sapling Well 8.3 26 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Sapling	2	26

53 4130 - Aspen Poletimber Well 12.1 83 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Pole	6		White Pine	High	>20 feet	Sapling
Northern Pin Oak	10	Pole	8		Red Maple	Medium	>20 feet	Sapling
Bigtooth Aspen	88	Log/Pole	10	83				

54 622 - Lowland Shrub Nonstocked 31.8 No

55 6122 - Black Spruce Poletimber Well 9.5 95 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	90	Pole	6	95	Balsam Fir	High	5 - 10 feet	Sapling
Northern White Cedar	10	Log	12					

03/08/2012 data. Mostly a wet stand where one walks on the tree roots and can see water between them. East fingers have a couple acres of upland.

56 3102 - Grass Nonstocked 2.9 Managed Opening



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
<b>57</b>	42290 - Natural Mixed Pine	Poletimber Well	15.3	83	81-110	N/A																																	
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<b>58</b>	6120 - Lowland Cedar	Sawtimber Well	26.5	92		N/A																																	
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<b>59</b>	6122 - Black Spruce	Sapling Medium	40.5	36		N/A	03/14/2012 data.																																
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<b>60</b>	622 - Lowland Shrub	Nonstocked	2.6			No																																	
<b>61</b>	6122 - Black Spruce	Poletimber Well	29.6	36		N/A	03/14/2012 data. Soft organic soil. Knee boots going in deep.																																
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<b>63</b>	500 - Water	Nonstocked	21.6			No	Bear Den Lake.																																
<b>64</b>	622 - Lowland Shrub	Nonstocked	2.8			No																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>65</b>	4130 - Aspen	Sapling Well	23.5	7	Immature	N/A																																										
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<b>67</b>	3102 - Grass	Nonstocked	1.5			No																																										
<b>68</b>	3102 - Grass	Nonstocked	2.5			Managed Opening																																										
<b>69</b>	330 - Low-Density Trees	Nonstocked	1.3			No	Many scattered scots pine.																																									
<b>70</b>	330 - Low-Density Trees	Nonstocked	16.7	0	Unspecified	4310 - Pine, Oak Mix	Some areas are mostly cherry brush, others under stocked with aspen. Still some scots pine near old footings. cut winter 2018.																																									
<b>71</b>	4130 - Aspen	Sawtimber Well	7.6	83	81-110	N/A	12/09/2015 data.																																									
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<b>72</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	60.0	17	1-50	N/A																																										
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75	42260 - Natural Pine, Mixed Deciduous	Sapling Well	9.7	47	1-50	N/A	real hodgepodge.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**79** 42210 - Natural Red Pine Sawtimber Well 17.1 80 111-140 N/A beaver activity

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Pole	7		White Pine	Full	>20 feet	Sapling
Northern White Cedar	7	Log	12					
White Pine	5	Log	15					
Red Pine	85	Log	15	80				

**80** 3102 - Grass Nonstocked 2.1 Managed Opening

**81** 4130 - Aspen Poletimber Well 15.5 36 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	95	Pole	8	36	Red Maple	Medium	Variable	Sapling
White Pine	5	Sapling	3		Scotch Pine	Trace	5 - 10 feet	Sapling

**82** 4191 - Mixed Upland Deciduous with Conifer Sapling Poor 94.4 6 Immature N/A Cut 2015. Rib Rack Mix 54-045-14.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Sapling	1	
Black Cherry	5	Sapling	1	
White Pine	7	Sapling/Pole	1	
Bigtooth Aspen	13	Sapling	1	
Jack Pine	15	Sapling	1	
Red Oak	55	Sapling	1	6

**83** 330 - Low-Density Trees Nonstocked 8.4 0 Unspecified 4310 - Pine, Oak Mix Acceptable regeneration is a medium to well stocked stand of jack pine, predominately unsuppressed by deciduous regeneration, and free of scots pine.

Small areas meet stem/acre stocking for oak and aspen together, but not height requirements. Expectation is for this to grow into an O2 (if it can get past 6' tall) with scattered scots pine in the understory, based on what's there now. Cut winter 2018.

**84** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 21.3 27 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	40	Sapling	2		Jack Pine	Low	< 5 feet	Sapling
Red Maple	10	Sapling	1					
Black/Red (Hybrid) Oak	50	Sapling	2	27				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>85</b>	4310 - Pine, Oak Mix	Poletimber Well	6.6	51	51-80	N/A																																														
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<b>86</b>	4122 - Oak, Pine	Sapling Well	19.0	18	Immature	N/A																																														
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<b>88</b>	4130 - Aspen	Poletimber Well	15.4	83	111-140	N/A	12/09/2015 data. Mostly slopes.																																													
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<b>90</b>	4121 - Oak, Aspen	Sapling Medium	13.6	4	Immature	N/A	Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand. (NO scotch pine) cut winter 2018.																																													
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94	42250 - Pine, Oak	Poletimber Well	20.5	83	51-80	N/A																																		
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95	6126 - Lowland Jack Pine	Poletimber Well	13.1	83		N/A	03/20/2012 data. Roots on surface, like vines. Organic soil.																																	
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96	330 - Low-Density Trees	Nonstocked	44.9	0	Unspecified	4310 - Pine, Oak Mix	WP is 8 inch pole. RP is 10 inch log/pole. Bulk of stand is oak seedlings meeting 9x9 spacing but only 2-4 feet high. Expect an O2 by next entry, IF regeneration can get above 6'. Cut winter 2018.																																	
97	4131 - Aspen, Oak	Sapling Medium	15.5	7	Immature	N/A	Cut 2015. Rib Rack Mix 54-045-14.																																	
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98	6120 - Lowland Cedar	Sawtimber Well	3.1	104		N/A	03/21/2012 data.																																	
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99	330 - Low-Density Trees	Nonstocked	7.1	0	Immature	4319 - Mixed Upland Forest	Acceptable regeneration is any combination of aspen, jack pine, oak, red pine, or white pine resulting in a medium or well stocked stand. cut winter 2018.  Most JP are 1 to 3 feet tall . Pockets of oak, mostly 4 to 6 feet, but near M-33 may be 6 feet and up. WP is under 30 BA, 9 inches DBH. Oak doesn't look like it got browsed in the last year or two, Let it grow and see if it can get over six feet tall.																																	
100	4130 - Aspen	Sapling Medium	11.7	4	Immature	N/A	varies from A1-A3. Thin areas were thin to begin with. Still some scots pine near old footings. cut winter 2018.																																	
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