



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54104

Entry Year 2026

Acreage: 1,288

County Alpena

Management Area: Huron Sandy Lake Plain

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**Stand Examiner:** Dale Parris

## Legal Description:

T31N R07E Sections 25, 26, and 27

## Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Huron Sandy Lake Plain Management Area (HSLPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. For the purpose of balancing the age class acre distributions of covertypes across the Management Area (MA), forest management during the 2026 YOE in the HSLPMA will focus on the major covertypes for the individual compartments. Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

## Soil and topography:

The soil/soil drainage in Compartment 104 varies by region. The western third of the compartment around Indian Reserve Road has mostly upland soils. North-south stretching bands of Au Gres sand (somewhat poorly drained), Rubicon sand (excessively drained), and Croswell sand (moderately well drained) form the major soil types for this area. The central region of the compartment is dominated by the poorly drained Deford Muck. The soil in the eastern third of Compartment 104 is mainly comprised of the moderately well drained Proper-Deford-Rousseau complex. The very poorly drained Tawas muck is present in some of the lowest ground areas of the compartment.

The topography in Compartment 104 is generally flat with slightly rolling hills.

The compartment consists of several large low areas in the central area and some ridges in the East part of the compartment while the west end is mostly flat terrain. There is a large, mounded area in the central part of the compartment that is an old, capped landfill.

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

A mixture of residences and businesses border the northern edge of Compartment 104 along M-32. Compartment 104 is bordered by additional state land to the south and east. Large acre recreational property borders the compartment to the west. The P K Fletcher Gun Club and Girl Scouts Camp Woodland sit within the compartment on the west side of Indian Reserve Road. An old landfill is located centrally in Compartment 104, south of the Alpena DNR Field Office and the Alpena Resource Recovery Facility.

## Unique Natural Features:

There are not any unique natural features to speak of in Compartment 104. There are some large areas of poorly drained lowland deciduous with conifer stands centrally in the compartment. Small acreage naturally regenerated mixed pine stands are scattered throughout the compartment. These are not to be confused with planted red pine and white pine stands that are also present throughout.

## Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) acknowledged known areas of concern within Compartment 104. All proposed management activities have taken these concerns into consideration. Contact SHPO for additional information.

## Special Management Designations or Considerations:

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website had record of 4 species historically being in or near Compartment 104 that require consideration when implementing forest management strategies. These species are satiny willow (*Salix pellita*: state threatened species), yellow banded bumble bee (*Bombus terricola*: state special concern species), northern long-eared bat (*Myotis septentrionalis*: federally endangered/state threatened species), and little brown bat (*Myotis lucifugus*: state threatened species).

## Watershed and Fisheries Considerations:

There are no major water bodies within the compartment. Best management practices are to be followed when conducting forest management near lakes, streams, and rivers.

## Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed

featured species found in this compartment. These species include American woodcock, ruffed grouse, snowshoe hare, wild turkey, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest and large open grassland complexes; the retention of large, over-mature trees and snags; and the maintenance and expansion of hard mast and mesic conifer components.

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

No known potential exists for commercial production of metallic minerals in this part of the state. The closest known active aggregate operations are more than three miles away, but there is evidence of past operations in the vicinity of the compartment. Potential for economic development of aggregate material in the compartment may be limited due to wetlands. There is history of production of sand & gravel and bedrock limestone in the area, both east and west of the compartment. The compartment is north of the Antrim Shale gas play, and the Antrim Shale is mostly absent here. No known potential exists for oil & gas from other known producing formations. There has been no recent well permit activity nor oil & gas leasing activity involving State-owned mineral rights in or around the compartment. 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 to Compartment 104 is limited. The western third of the compartment is accessible by foot from Indian Reserve Road. Due to private land holdings, access to Compartment 104 from M-32 to the north is limited. Access to the eastern third of Compartment 104 is from Norway Ridge Trail east from Indian Reserve Road. A half mile to the south, Norway Ridge Trail parallels the central region of Compartment 104.

### **Survey Needs:**

For the purpose of conducting timber sales and maintaining legal private/state land boundary posting locations, there may be a need for property line surveys within Compartment 104. Further investigation will be needed to determine the extent to which these surveys are required.

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

Rabbit/hare, grouse, woodcock, whitetail deer, turkey, and bear hunting opportunities are available within Compartment 104 in season with a valid license. Trapping and wildlife viewing opportunities are also present. All regulations set forth by the Michigan Department of Natural Resources are to be adhered to by hunters and trappers.

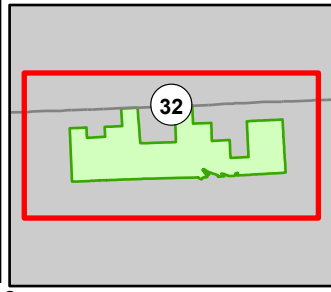
The Hillman-Alpena State Hiking Trail and LP4/LP461/LP462 Snowmobile Trails are recreation trails that traverse through Compartment 104 offering recreational opportunities seasonally. The Hillman-Alpena State Trail is open to snowmobiles seasonally from December 1 through March 31 and is otherwise closed to motorized traffic the remainder of the year. Outside the snowmobile season the Hillman-Alpena State Trail is open to hiking and biking. Motorized trails are only to be used with the proper registration and licensing.

### **Fire Protection:**

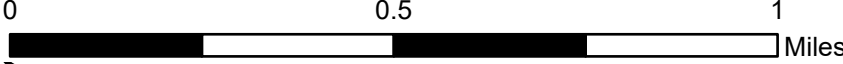
In the case of wildland fire, Compartment 104 is within the response area of the Alpena DNR Fire Taskforce/Atlanta Forest Management Unit and the Wilson Township Fire Department. The Alpena DNR Fire Task Force is located within the northern boundary of Compartment 104 off of M-32. The Alpena Task Force would typically be able to be on scene within 10-20 minutes after being dispatched depending on forest road access. Wilson Township Fire Department response time would likely be in the range of 15-30 minutes with their location being approximately 7 miles from the compartment. The Alpena Township Fire Department may also respond to fires in Compartment 104 due to its close proximity to the compartment and would typically have response times of around 15-30 minutes. Depending on the location of a fire within the compartment, fire response times could be hindered due to poor access.

### **Additional Compartment Information:**

**Cover Type & Treatments Map**



Compartment: 54104  
 T31N, R7E, Sec: 25-27  
 County: Alpena  
 Unit: Atlanta  
 Mgmt Area: Huron Sandy Lake Plain  
 YOE: 2026  
 Acres: 1288.2 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 05/29/2024  
 Map Phase: Web-Post

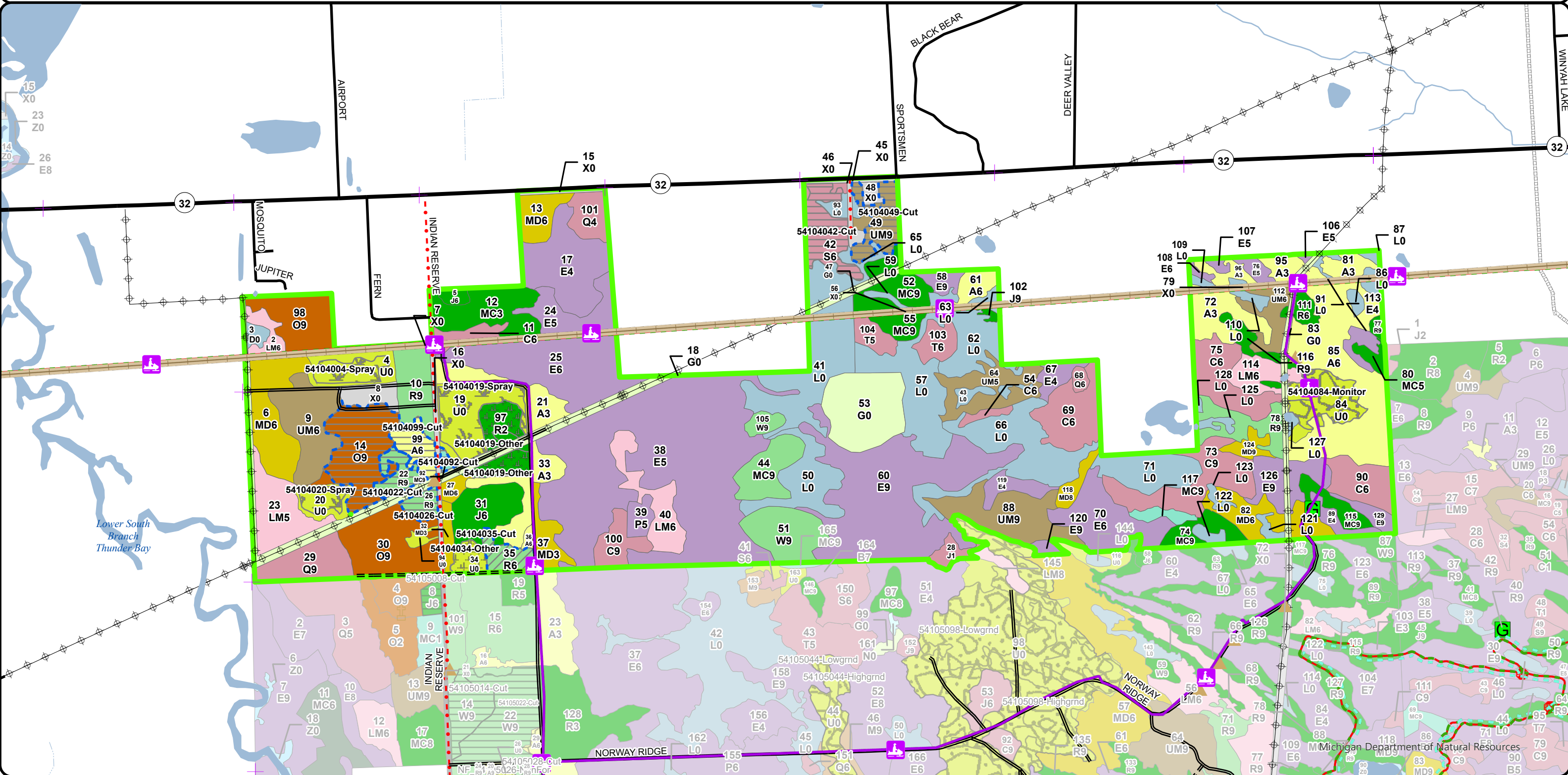


- Berms
- Gate
- Cemetery
- Sign
- Remonumented Section Corners
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails

- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers

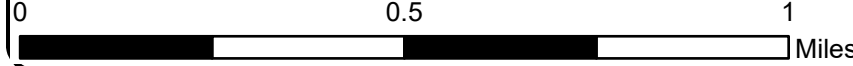
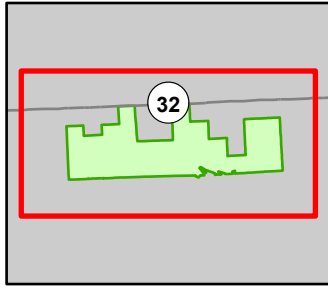
- Pipeline
- Powerline
- Compartment Boundary
- Counties
- Treatments with Site Conditions
- Pesticide
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)

- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



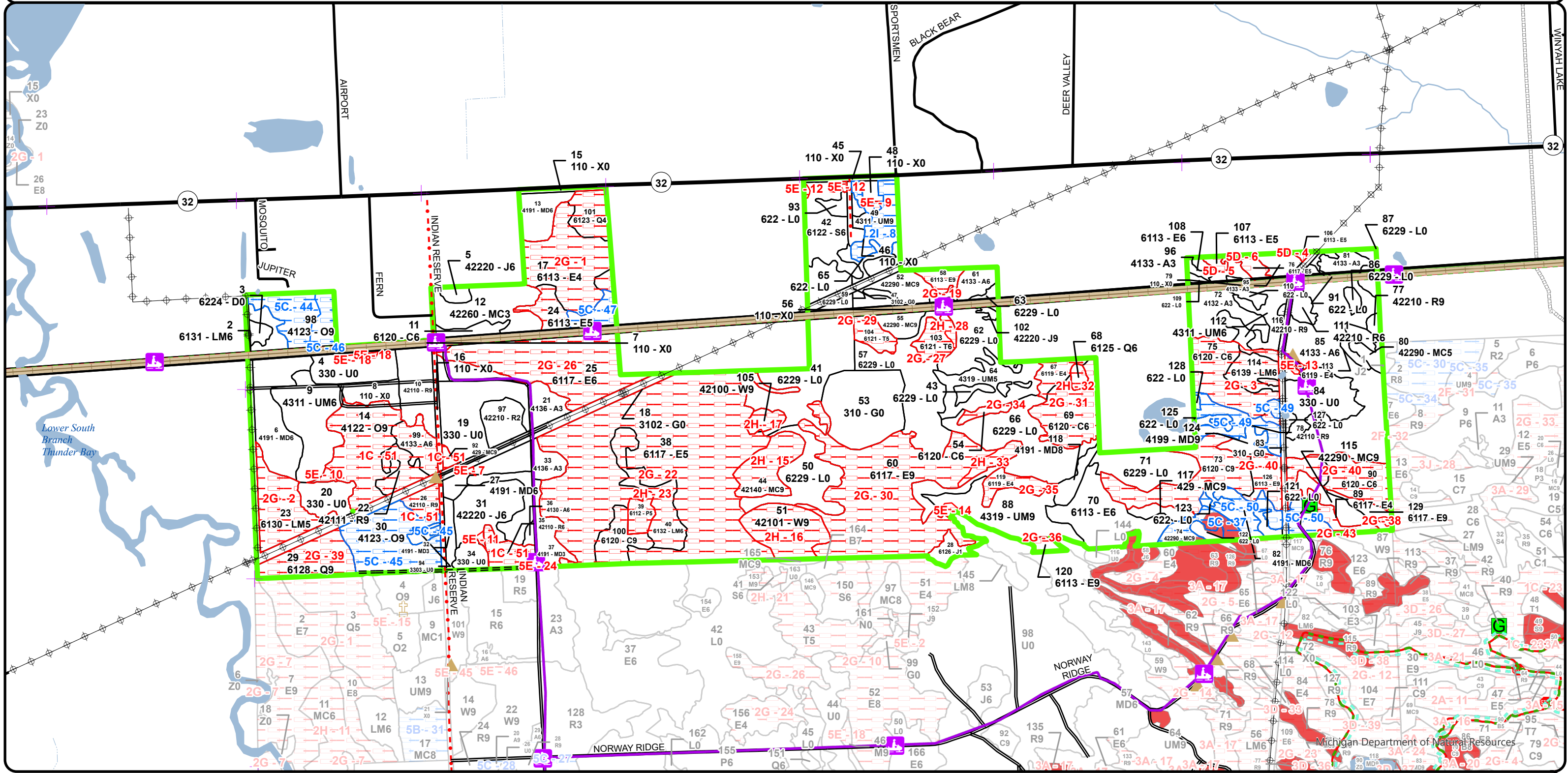
**Special Conservation Areas  
& Site Conditions Map**

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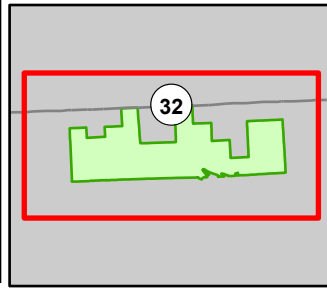


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- Powerline
- Compartment Boundary
- Counties
- SCA

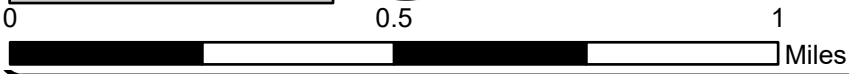
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Trail - Trail Corridor



# Stand Boundary Map

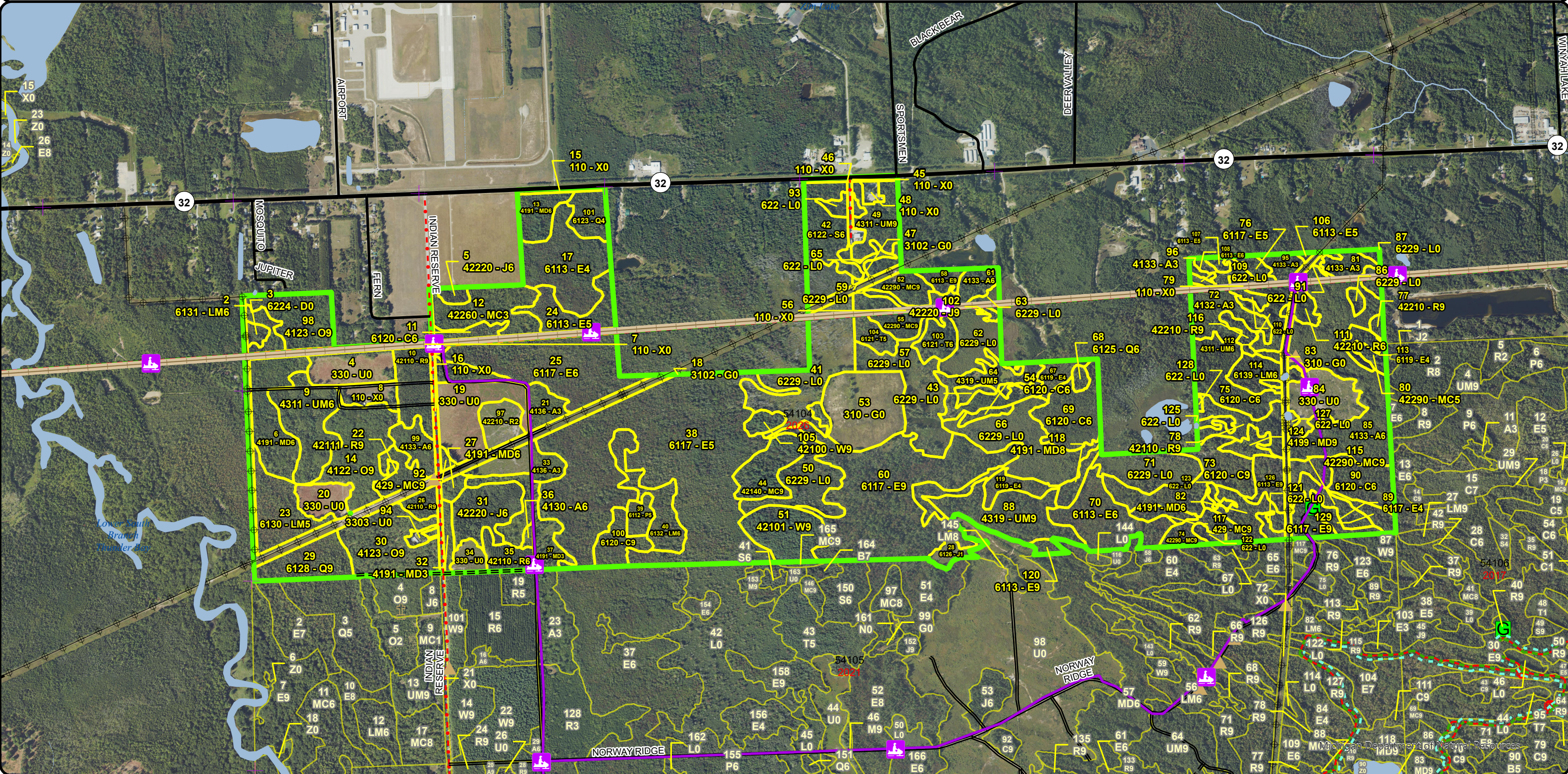


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- Berms
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- State Forests



**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**

# Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment 104 Year of Entry 2026



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	0	47	0	46	1	7	0	0	5	0	0	0	0	0	0	0	0	106
Cedar	0	0	0	0	0	0	0	0	0	0	16	4	2	35	21	0	0	0	78
Herbaceous Openland	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Jack Pine	0	4	0	0	0	17	0	0	1	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	7	0	0	0	0	2	0	0	0	13	0	0	0	22
Lowland Deciduous	0	0	0	0	4	189	26	1	78	2	19	12	0	0	0	0	0	3	333
Lowland Mixed Forest	0	0	0	0	0	13	20	0	0	0	0	0	0	0	0	0	0	8	41
Lowland Shrub	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	7	3	0	19	0	8	0	0	0	18	0	2	0	0	0	0	4	61
Natural Mixed Pines	0	0	17	3	0	0	0	12	0	11	0	0	7	0	0	0	0	0	50
Oak	0	0	0	0	0	0	0	0	0	0	0	0	47	16	0	0	0	0	63
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Red Pine	0	13	0	0	3	6	0	12	6	5	5	10	0	0	0	0	0	0	60
Tamarack	0	0	0	0	0	0	6	0	5	0	0	0	0	0	0	0	0	0	11
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	4
Upland Mixed Forest	0	0	0	0	0	43	0	0	0	33	0	0	0	0	0	0	0	0	76
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
White Pine	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
<b>Total</b>	<b>312</b>	<b>24</b>	<b>67</b>	<b>3</b>	<b>72</b>	<b>276</b>	<b>71</b>	<b>25</b>	<b>104</b>	<b>56</b>	<b>91</b>	<b>27</b>	<b>58</b>	<b>51</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>1288</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 104

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,288

Commercial Harvest - 13  
 Harvests with Site Condition - 57  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	7	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	13	0	0	0	0	0	0	0	0	13
Oak	23	0	0	0	0	0	0	0	0	23
Red Pine	10	0	0	0	0	6	0	0	0	16
Upland Conifers	1	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>71</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	71	0	0	0	0	28	13	15	0	127
Next Step	0	36	57	0	0	12	221	14	0	339
<b>Total</b>	<b>71</b>	<b>36</b>	<b>57</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>234</b>	<b>29</b>	<b>0</b>	<b>467</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>14</b>	<b>54104014-Cut</b>	23.3	4122 - Oak, Pine	Sawtimber Well	112	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Retain 3 half acre pockets around large mast producing oak while ensuring the retention is stand representative overall.

Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any low to medium-stocked mix of red oak, red pine, red maple, aspen, balsam fir, spruce, and/or white pine.

Other Comment:

Retention greater than 10 percent is acceptable if required by archaeology.

Site Condition

Other Dept./Div. Processes

Proposed Start Date: 10/1 /2025

<b>22</b>	<b>54104022-Cut</b>	6.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	75	81-110	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Clear-cut.

Specs:

Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Other Comment:

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

Site Condition

Other Dept./Div. Processes

Proposed Start Date: 10/1 /2025

<b>26</b>	<b>54104026-Cut</b>	3.8	42110 - Planted Red Pine	Sawtimber Well	81	141-170	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Clear-cut.

Specs:

Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of aspen, oak, red maple, red pine, jack pine, white pine, balsam fir, and/or spruce.

Other Comment:

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

Site Condition

This treatment should not affect Camp Woodlands to the south.

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2025

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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
35	54104035-Cut	6.2	42110 - Planted Red Pine	Poletimber Well	48	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120 BA. Do not harvest more than 1/3 of the BA in any one area.</p> <p><u>Specs:</u> Include spec to protect the snowmobile trail and its users.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> This is not a regeneration harvest. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
42	54104042-Cut	13.3	6122 - Black Spruce	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Retention is designated at the north end of the stand.</p> <p>Retain and protect legacy trees where present and feasible for conducting harvest operations. Do not retain legacy trees where they are a blowdown threat to power lines, roadways and/or buildings.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration is any low to medium stocked mix of red maple, black spruce, jack pine, white pine, red pine, aspen, paper birch, <u>Regen:</u> balsam fir, and/or cedar.</p> <p><u>Other</u> Access would be from M-32 or recycling center road due to low hanging electrical wires on M-32. <u>Comment:</u> Areas of the stand are excluded from the treatment for visual enhancements.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
49	54104049-Cut	10.2	4311 - Pine, Aspen Mix	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Retention is to be a combination of single tree and pocket retention and is to be stand representative. Single tree retention is not to exceed 10 BA overall but can exceed 10 BA in areas. A retention pocket is marked out of the treatment centrally.</p> <p>Include Dead and Down spec 5.2.4.7.</p> <p>Protect pine regeneration to promote future strand diversity.</p> <p>Include spec to protect the snowmobile trail and its users.</p> <p>Retain and protect legacy trees where present and feasible for conducting harvest operations. Do not retain legacy trees where they are a blowdown threat to power lines, roadways and/or buildings.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, white pine, jack pine, red pine, balsam fir, and/or oak. <u>Regen:</u></p> <p><u>Other</u> Timber sale access would be through the Alpena Field Office driveway. <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>92 54104092-Cut</b>	1.0	429 - Mixed Upland Conifers	Sawtimber Well	108	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Other, Pre-Commercial Thinning - Hand; Pesticide, Hand Application <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any low to medium stocked mix of aspen, red maple, white pine, oak, jack pine, and/or red pine.</p> <p><u>Other Comment:</u> Retention is not necessary due to the small size of the stand. This stand is dominated by non-native Norway spruce. It was left as retention for the stand harvested to the north but is now being removed to prevent the future seeding in of non-native Norway spruce in adjacent areas. This treatment includes approval to remove any future Norway Spruce regeneration in the stand via chemical, or mechanical means as needed.</p> <p><u>Site Condition</u> Other Dept./Div. Processes <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>99 54104099-Cut</b>	6.9	4133 - Aspen, Mixed Pine	Poletimber Well	53	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut. <u>Specs:</u></p> <p>Retention is not necessary due to the small size of the stand. Include Dead and Down spec 5.2.4.7. Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, oak, balsam fir, red pine, white pine, and/or spruce.</p> <p><u>Other Comment:</u> Retain and protect legacy trees where present and feasible for conducting harvest operations. Do not retain legacy trees where they are a blowdown threat to power lines and roadways.</p> <p><u>Site Condition</u> Other Dept./Div. Processes <u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

<b>4 54104004-Spray</b>	6.7	330 - Low-Density Trees	Nonstocked	0		Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Apply herbicide to set back woody competition to planted red pine. <u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Herbicide Use; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Well stocked stand of red pie with minor components of oak aspen and red maple</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>97 54104019-Other</b>	11.3	42210 - Natural Red Pine	Sapling Medium	6	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Preform a pre-commercial hand thin to release the natural red pine regeneration.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Monitoring, Artificial Treatments: Regen(3yr); SitePrep, Roller Chopping; Monitoring, Natural Regen (Re-Inventory)  <u>Acceptable</u> well stocked stand of planted red pine  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2023</p>										
<b>19 54104019-Spray</b>	16.7	330 - Low-Density Trees	Nonstocked	0		Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Apply herbicide to set back woody competition to planted red pine.  <u>Specs:</u>  <u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)  <u>Treatments:</u>  <u>Acceptable</u> well stocked stand of planted red pine  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2023</p>										
<b>20 54104020-Spray</b>	4.7	330 - Low-Density Trees	Nonstocked	0		Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Apply herbicide to set back woody competition to planted red pine.  <u>Specs:</u>  <u>Next Step</u> ; Monitoring, Herbicide Use; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  <u>Treatments:</u>  <u>Acceptable</u> Well stocked RP plantation.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2023</p>										
<b>34 54104034-Other</b>	4.1	330 - Low-Density Trees	Nonstocked	0		Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Preform a pre-commercial hand thin to release the natural red pine regeneration.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Herbicide Use  <u>Treatments:</u>  <u>Acceptable</u> Well stocked RP plantation.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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84	54104084-Monitor	13.0	330 - Low-Density Trees	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	4211 - Planted Red Pine	Even-Aged	No
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Prescription Perform a natural regeneration check.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Other, Pre-Commercial  
Treatments: Thinning - Hand

Acceptable well stocked stand of planted red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

**Total Treatment Acreage Proposed: 127.2**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2I	5C	1C	2G	2H	5D	5E	
106	99	0	7	Aspen			7					0
79	4	0	75	Cedar				75				
59	59	0	0	Herbaceous Openland				0				
21	21	0	0	Jack Pine								0
60	59	0	0	Low-Density Trees								0
4	0	0	4	Lowland Aspen/Balsam Poplar					4			
22	0	0	22	Lowland Conifers				21	2			
296	28	5	263	Lowland Deciduous		5		255	4	4		
41	5	0	36	Lowland Mixed Forest				36				0
160	160	0	0	Lowland Shrub								
14	13	0	1	Lowland Spruce/Fir								1
62	47	14	0	Mixed Upland Deciduous		14						0
49	42	7	0	Natural Mixed Pines		7						
63	0	39	24	Oak		39	23					1
12	0	0	12	Planted Mixed Pines					12			
61	32	10	19	Red Pine		10	16	2				1
11	0	0	11	Tamarack				10	1			
2	2	0	0	Treed Bog								
4	3	0	1	Upland Conifers			1					
75	64	10	1	Upland Mixed Forest	10			0				1
31	31	0	0	Urban								
19	0	0	19	White Pine				0	19			
1,252	669	85	497	Total Forested Acres	10	75	47	398	42	4	5	
	53%	7%	40%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	5D: Unproductive Forest Land	0	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is sparsely treed shrub dominate lowlands. The timber present is generally of poor quality. Glossy buckthorn is an issue in the shrub layer.							
5	<b>Unavailable</b>	5D: Unproductive Forest Land	1	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is sparsely treed shrub dominate lowlands. The timber present is generally of poor quality. Glossy buckthorn is an issue in the shrub layer.							
6	<b>Unavailable</b>	5D: Unproductive Forest Land	3	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is sparsely treed shrub dominate lowlands. The timber present is generally of poor quality. Glossy buckthorn is an issue in the shrub layer.							
7	<b>Unavailable</b>	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. It was originally part of the harvest to the East.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

8	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is proposed long term retention for the surrounding harvest.							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. It was originally part of the harvest to the south but was merged with the stand to the north to meet stand mapping standards.							
11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. This is retention from the clear-cut harvest to the southwest.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for the proposed treatment to the east.							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This was long term retention for the harvest to the southeast.							



**Report 4 – Site Conditions**

Atlanta Mgt. Unit  
Dale Parris : Examiner

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Year of Entry: 2026

15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	148	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

23	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for what was Stand Number 37; Sale No. 54-51-16; Sale Name: 2 Four D.							
26	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There are some pockets that have high enough ground to harvest, but overall, this stand is too wet to harvest.							
27	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	5	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	65	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand is blocked from harvest by surrounding lowlands.							
34	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 104  
Year of Entry: 2026

47	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
49	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
50	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
51	Unavailable	1C: Other dept or div proc/practices	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold off on treatments. See comments below.							

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





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**2**    6131 - Hemlock, White Pine, Maple, Birch    Poletimber Well    4.2    54    51-80    N/A

This stand could potentially be managed with and/or merged with the stand adjacent to the east. Scattered large Xlog size red and white pine are present throughout. The dominance of pole/sapling/log size red maple in the canopy differentiates this stand from the adjacent stand to the east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		White Pine	Low	Variable	Sapling
Black Spruce	2	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	15	Log/XLog	15	112	Black Spruce	Low	Variable	Sapling
Red Maple	43	Pole/Sapling	5	54	Red Maple	Medium	>20 feet	Sapling
White Spruce	1	Log/XLog	17		Balsam Fir	Low	Variable	Sapling
Jack Pine	15	Log	11	95				
Red Oak	2	Pole/Sapling	6					
White Pine	15	Pole/Log/Sap	7					

**3**    6224 - Treed Bog    Nonstocked    1.9          No

This stand is closing in with conifer over time and is approaching 25 percent canopy cover. There is mostly scattered lowland shrub, black spruce, jack pine, balsam fir, and white pine with a ground covering of leatherleaf and some Labrador tea at the stand edge.

**4**    330 - Low-Density Trees    Nonstocked    12.1    0    4211 - Planted Red Pine

This stand is scheduled to be sprayed with herbicide to set back the competition to the future planted red pine during the summer of 2024. During the Inventory of 2024 this stand was 70 percent stocked by area. Aspen dominated most stocked areas with lesser components of red oak, red maple, jack pine, and red pine in descending order of dominance.

Trenching of this site was completed on 5/20/23. Roller chopping complete 8/19/2022.

**5**    42220 - Natural Jack Pine    Poletimber Well    2.0    42    N/A

This stand was cut in the early 80's for the airport to the north.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		Black Spruce	Low	Variable	Sapling
Paper Birch	15	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Jack Pine	78	Pole	7	42	Glossy Buckthorn	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>6</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.3	37	1-50	N/A	The stand wavers between pockets dominated by aspen, red maple, balsam fir, and jack pine with the largest pockets being dominated by aspen and red maple, followed by balsam fir. Lowland pockets are present throughout. All trees with a merchantable stick, with the exception of oak, were harvested in a sale closed in May of 1987; Sale Name Fletcher's West; Sale No.: 54-015-86-01																																													
<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 Oak</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Balsam Fir</td><td>15</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Red Maple</td><td>20</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>5</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>White Pine</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Quaking Aspen</td><td>31</td><td>Pole/Sapling</td><td>6</td><td>37</td></tr> <tr><td>Black Spruce</td><td>3</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Jack Pine</td><td>10</td><td>Pole/Sapling</td><td>5</td><td></td></tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	5	Pole/Sapling	6		Balsam Fir	15	Pole/Sapling	6		Red Maple	20	Sapling/Pole	3		Bigtooth Aspen	5	Pole	6		White Pine	10	Log/Pole	12		Quaking Aspen	31	Pole/Sapling	6	37	Black Spruce	3	Pole/Sapling	6		Jack Pine	10	Pole/Sapling	5	
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Oak	5	Pole/Sapling	6																																																	
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Black Spruce	3	Pole/Sapling	6																																																	
Jack Pine	10	Pole/Sapling	5																																																	

<b>7</b>	110 - Low Intensity Urban	Nonstocked	9.2			No	railroad grade/snowmobile trail
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<b>8</b>	110 - Low Intensity Urban	Nonstocked	5.7			No	This is a trap and skeet shooting range.
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<b>9</b>	4311 - Pine, Aspen Mix	Poletimber Well	20.3	45	51-80	N/A	This stand alternates between pockets of jack pine and pockets of aspen. There is bigtooth aspen to the east and quaking aspen to the west.																																																																								
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<b>10</b>	42110 - Planted Red Pine	Sawtimber Well	12.4	68	141-170	N/A	2026 YOE Inventory BA Measurements: (160, 140, 190, 110, 130) Per planting records this stand was planted to red pine in 1956. 20-25% live crown ratio on average This stand was thinned to 120 BA in a sale closed in late 2017. This stand was 3rd row thinned in July of 97.																																																						
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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>11</b>	6120 - Lowland Cedar	Poletimber Well	4.0	106		N/A	This stand is a series of inclusion pockets; small young dense pole size cedar to the west, pole/log size cedar centrally, lowland deciduous to the east.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	60	Pole/Log/Sap	9	106	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Tamarack	3	Sapling	4					
Red Pine	2	Pole/Sapling	6					
Red Oak	1	Sapling/Pole	4					
Paper Birch	5	Pole	7					
Quaking Aspen	10	Pole/Log	8					
Red Maple	17	Pole/Sap/Log	6					

<b>12</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Well	17.3	15	Immature	N/A	The harvest of this stand was completed in December of 2008 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01. All trees with a merchantable stick were harvested with the exception of red pine, oak, and cedar.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	2	Sapling	2	
Balsam Fir	5	Sapling	2	
Paper Birch	2	Sapling	1	
Jack Pine	55	Sapling	3	15
White Pine	1	Sapling	3	
Red Pine	5	Log/Pole	12	
Red Maple	15	Sapling	2	
Quaking Aspen	13	Sapling	2	15
Red Oak	1	Sapling	1	
Red Oak	1	Log	16	

<b>13</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.0	55	81-110	N/A	Centrally, the canopy is dominated by large white pine with suppressed red maple in the canopy and understory. The aspen component is mostly along the east and north edges.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole/Log/Sap	7	55	White Pine	Low	Variable	Sapling
Paper Birch	5	Pole/Sapling	5		Red Maple	High	>20 feet	Sapling
Quaking Aspen	30	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	6					
Red Oak	5	Pole	7					
White Pine	20	XLog/Log	18					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>14</b>	4122 - Oak, Pine	Sawtimber Well	24.1	112	111-140	N/A	<p>Planting records indicate that 16 acres in this area was inter-planted to red pine in 1957; on the ground aging was used. There is pole/log size planted red pine that is mostly suppressed under the oak canopy throughout the stand. This stand looks to have seen a species removal/thinning of oak with a subsequent under planting of red pine. There is an oak cohort that regenerated naturally with the planted red pine. Some older naturally regenerated red pine is present. Most of the planted red pine is suppressed by the oak canopy.</p> <p>Trying to harvest the oak and thin the red pine would not be feasible based on the stand structure. The felled oak would damage the red pine.</p> <p>There are large log size oaks with pole/small log size oaks throughout. There are pockets/scattered pole size planted red pine throughout.</p>																																													
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<b>15</b>	110 - Low Intensity Urban	Nonstocked	1.6			No	M-32																																													
<b>16</b>	110 - Low Intensity Urban	Nonstocked	5.1			No	Indian Reserve Road																																													
<b>17</b>	6113 - Lowland Maple	Poletimber Poor	25.4	49	1-50	N/A	This stand is too wet to harvest and has low volume/tree density.																																													
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<b>18</b>	3102 - Grass	Nonstocked	23.3			No	Power transmission lines; mixed vegetation																																													
<b>19</b>	330 - Low-Density Trees	Nonstocked	19.4	0		No	<p>Trenching was completed on 5/20/23. Roller chopping complete 8/19/2022. This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.</p>																																													
<b>20</b>	330 - Low-Density Trees	Nonstocked	7.5	0		No	<p>During the 2026 YOE Inventory, Aspen was evenly distributed throughout the stand as the major competition to the future planted red pine.</p> <p>Trenching of this site was completed on 5/20/23. Roller chopping complete 8/19/2022. This was part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16 that was closed out on 6/24/2018.</p>																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>21</b>	4136 - Aspen, Mixed Conifer	Sapling Well	10.7	15	Immature	N/A	Stand did not meet objectives of natural jack pine. Accepted the current condition of aspen/jack pine at compartment review in 2016. The harvest of this stand was completed in December of 2008 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01. All trees with a merchantable stick were harvested with the exception of red pine, white pine, and oak in the northern portion and oak/green marked trees in the southern portion.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Sapling	2	15
Black Spruce	5	Sapling	1	
Jack Pine	15	Sapling	2	15
Red Pine	2	Log/XLog	16	
Red Oak	3	Sapling	1	
Red Maple	10	Sapling	2	15
Red Pine	2	Sapling	2	
White Pine	2	XLog/Log	22	
Paper Birch	5	Sapling	1	
Bigtooth Aspen	15	Sapling	2	15
Balsam Fir	5	Sapling	2	
White Pine	1	Sapling	2	

<b>22</b>	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	6.0	75	81-110	N/A	2026 YOE Inventory BA Measurements: (110, 100, 70, 150, 150, 40, 60) Planting records indicate that 6 acres in this area was planted to red pine in 1956; on the ground aging was used. This stand was separated out from the adjacent stands due to the red pine in this stand being somewhat less suppressed by a sparser oak canopy component. There appears to be three ages of red pine present. The west third of the stand appears to be naturally regenerated and is larger in diameter (average of 14 inches DBH at the time). The eastern third of the stand is small log size planted stock (where the age was taken/average of 12 inches DBH at the time). The northern third is large pole size and was likely planted with the pine adjacent to the north (average of 8 inches DBH at the time). During the most recent harvest it appears that a 3rd row thinning was completed. Residual rows were not thinned but could have used thinning. Subsequently, the red pine in the eastern and northern thirds tend to be in pockets that could use thinning. The northern third is ready for final harvest. Do to the overall described situation and the small size of the stand, it is suggested that the next harvest of this stand be a clear-cut.  based on two different oak ages taken and diameter difference in some red pine pockets being larger.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	67	Log/Pole	12	75
Red Oak	25	XLog/Log	20	112
Red Maple	3	Log/Pole	11	
Quaking Aspen	5	Log/Pole	10	

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

<b>23</b>	6130 - Fir, Aspen, Maple	Poletimber Medium	15.8	59	1-50	N/A	This stand had standing water throughout during the 2026 YOE Inventory. As such, an east edge call was made. Ash have died and fallen out of the canopy. Large pine and oak are present along the southeast point of the stand. This stand is too wet to harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	XLog/Log	20	
Red Maple	45	Pole/Log/Sap	7	59
Northern White Cedar	13	Pole/Sapling	6	
Paper Birch	5	Pole/Sapling	5	
Black Spruce	5	Pole/Log	8	
Balsam Fir	30	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	Variable	Tall Shrub
Black Spruce	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	6113 - Lowland Maple	Poletimber Medium	11.9	105	51-80	N/A	This stand is borderline too wet to harvest. The aspen can be found in a pocket in the southeast.		
<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		70	Pole/Log/Sap	9	105	Michigan Holly	High	5 - 10 feet	Tall Shrub
Balsam Fir		15	Pole	5		Balsam Fir	High	Variable	Sapling
Quaking Aspen		10	Pole/Log	9					
Paper Birch		5	Pole	7					
25	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	36.6	49	51-80	N/A	There are some higher ground pockets with larger timber, but most of this stand is too wet to harvest.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		1	XLog/Log	18		Balsam Fir	Medium	Variable	Sapling
Black Spruce		2	Log	11		Tag Alder	Low	Variable	Tall Shrub
Paper Birch		22	Pole	7		Michigan Holly	High	5 - 10 feet	Tall Shrub
Quaking Aspen		2	Log	12					
Balsam Fir		13	Pole/Sapling	5					
Northern White Cedar		3	Log/Pole	11					
Red Maple		56	Pole/Sap/Log	6	49				
White Pine		1	XLog/Log	20					
26	42110 - Planted Red Pine	Sawtimber Well	3.8	81	141-170	N/A	2026 YOE Inventory BA Measurements: (240, 190, 130) Red pine BA is highly variable and lower around outer edges.		
<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		10	XLog/Log	21		Balsam Fir	Trace	Variable	Sapling
Bigtooth Aspen		5	Log/Pole	12		Red Maple	Full	Variable	Sapling
Red Pine		85	Log	13	81	White Pine	Trace	Variable	Sapling
						White Spruce	Trace	Variable	Sapling
						Red Oak	Low	Variable	Sapling
27	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.3	112	81-110	N/A	This is a small oak dominate stand that was left out of adjacent harvests. Stand 32 to the south was likely very similar to this stand before it was harvested.		
<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	6		Balsam Fir	Low	Variable	Sapling
Red Oak		58	Log	15	112	White Pine	Low	Variable	Sapling
Bigtooth Aspen		10	Log/Pole	11	45	Black Spruce	Low	Variable	Sapling
Tamarack		5	Log/Pole	11		Red Maple	Low	Variable	Sapling
Red Pine		12	Log/Pole/XLog	12					
Jack Pine		5	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>28</b>	6126 - Lowland Jack Pine	Sapling Poor	3.7	6	Immature	N/A	The regeneration in this stand was determined to meet the 2/16/23 variance requirements during the 2026 YOE inventory.  Variance was approved on 2/16/23 to accept natural regeneration with optional next steps as follows: Accept the natural mixed pine regeneration with optional pre-commercial thinning and supplemental planting treatments to be implemented to release and promote pine as determined necessary for achieving a moderate to fully stocked stand of red pine, white pine, and/or jack pine. Acceptable Regeneration: Acceptable regeneration is a medium to well stocked mix of red pine, white pine, and/or jack pine, with a minimal deciduous component.  This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	55	Sapling	1	6
White Pine	35	Sapling	1	
Red Pine	5	Sapling	1	
Black Spruce	5	Sapling	1	

<b>29</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	13.3	130		N/A	Some areas are dominated by cedar and other areas are more deciduous/red maple dominate. This stand is too wet to harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	XLog/Log	20	
White Spruce	1	Log	16	
Paper Birch	10	Pole/Sapling	6	
Balsam Fir	15	Pole/Sapling	6	
Red Maple	26	Pole	8	59
Northern White Cedar	30	Log/Pole	10	130
Black Spruce	15	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

<b>30</b>	4123 - Red Oak	Sawtimber Well	23.4	115	81-110	N/A	2026 YOE Inventory BA Measurements: (130, 100, 80, 50, 70, 80, 90, 70) Red Oak regenerated well from stump sprouts last harvest. A hiking pathway with blue DNR markers goes through the stand. There is an illegal trail running north-south through the west edge of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	15	Log/XLog/Pole	14	
Red Oak	75	Log/XLog	16	115
Bigtooth Aspen	5	Log/Pole	10	
Red Maple	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Red Oak	Low	Variable	Sapling
White Spruce	Trace	Variable	Sapling
Red Maple	High	Variable	Sapling

<b>31</b>	42220 - Natural Jack Pine	Poletimber Well	14.7	44	51-80	N/A	This stand was all harvested together but is made up of 3, somewhat similar, inclusion pockets that should continue to be managed together as one stand. The southwest oval is more open grown and bushy, dominated by jack pine and red pine. The eastern half is dominated by tightly spaced jack pine with pockets of quaking aspen. The northern portion is dominated by aspen with a scattering of red, white, and jack pine. These areas can be differentiated well using the leaf off color infrared imagery.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	15	Pole	8	
Jack Pine	65	Pole	6	44
Quaking Aspen	10	Pole	7	
Red Maple	5	Pole/Sapling	6	
Bigtooth Aspen	5	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Black Spruce	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**32** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 3.1 16 Immature N/A

The harvest of this stand was completed in August of 2008 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01. Pre-harvest, this stand was probably very similar to Stand 27 to the north.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	1	Sapling	3	
Red Pine	2	Sapling	4	
White Pine	4	Sapling	3	
Red Maple	20	Sapling	1	
Jack Pine	15	Sapling	3	
Black Spruce	1	Sapling	3	
Red Oak	20	Sapling	2	
White Spruce	1	Sapling	3	
Bigtooth Aspen	35	Sapling	3	16
Tamarack	1	Sapling	1	

**33** 4136 - Aspen, Mixed Conifer Sapling Well 11.4 15 Immature N/A

Stand did not meet objectives of natural jack pine. Accepted the current condition of aspen at compartment review. There a few scattered log size oak and red pine present. The harvest of this stand was completed in April of 2009 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Sapling	1	
Red Maple	18	Sapling	2	15
Red Oak	5	Sapling	1	
Jack Pine	10	Sapling	3	
Bigtooth Aspen	10	Sapling	3	15
White Pine	5	Sapling	3	
Quaking Aspen	45	Sapling	3	15
Black Spruce	5	Sapling/Pole	2	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>34</b>	330 - Low-Density Trees	Nonstocked	4.1	0		4211 - Planted Red Pine	<p>Natural Regen survey completed May of 2023: Ran five transects in 4 acres; 1,936 red pine per acre on average with a average height of 2ft. An ocular estimate of 30% free to grow was made. The major competition was red maple with small jack pine starting to grow.</p> <p>Unexpected natural red pine regeneration occurred. May 2021 Natural Regeneration Survey Results: 4 acres, 4 plots Averaged 1,000 RP/acre and 350 WP/acre 1 and 2 year old seedlings about 6" – 1 foot tall Red Maple is the major competitor (4 - 9 feet tall) Please change treatment to skidder release (10/1/2020) The skidder herbicide application was completed on 9/23/21. -PUER 8/11/22 Comments: Spray application moderately successful. Red Maple and Aspen competition may continue to be an issue. Consider PCT after a few more years of pine establishment. Cause of pine mortality unknown. Late season spraying may be the cause of the failure. Continue to monitor as if stands were planted. Before Application: oak/Cherry 5%, Aspen 45%, RM 50%; Post Application: 80%, 30%, and 50% control respectively.</p> <p>This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.</p>
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<b>35</b>	42110 - Planted Red Pine	Poletimber Well	6.2	48	81-110	N/A	<p>2026 YOE Inventory BA Measurements: (160, 170, 80, 140, 130, 90) There is on average 25 percent live crown ratio where full rows are in place and it is greater in less dense areas. This stand was 3rd row thinned, and all other canopy species were harvested in a sale closed in November of 2017.</p>
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Pole	8	48	Black Spruce	Trace	< 5 feet	Sapling

<b>36</b>	4130 - Aspen	Poletimber Well	1.0	42		N/A	This stand was not harvested with the stand adjacent to the west.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	68	Pole/Sapling	5	42	White Pine	Low	Variable	Sapling
Tamarack	2	Pole	6		Red Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**37** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 7.3 7 1-50 N/A

A proposal was made and approved through the 2026 YOE Compartment Review Process to accept the natural regeneration that came back as noted in the stand data. Even though there is a full stocking of white pine present, the white pine is not free to grow due the white pine being mostly over-topped by the dense and taller red maple regeneration.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	XLog/Log	20	
White Pine	8	XLog/Log	20	100
Red Maple	55	Sapling	1	7
Paper Birch	2	Sapling	1	
White Pine	16	Sapling	1	
Quaking Aspen	10	Sapling	1	7
Balsam Fir	1	Sapling	1	
Red Oak	2	Sapling	1	
Jack Pine	5	Sapling	1	

Agreed Upon Regeneration at 2016 YOE Compartment Review: medium to well stocked stand of white pine with mixed deciduous; was not met due to the majority of the white pine not being free to grow due to being overtopped by red maple/aspens.

The uncut remnant/seed tree white pine were planted in 1924.

Estimated full stocking percent coverage by species during a March 2024 walk through:

- RM 70% Evenly Spaced out, 10+ feet tall
- WP 90% Evenly Spaced out, 2-3 feet tall
- QA 15% in Pockets, 10+ feet tall
- JP 5% in Pockets, 2-3 feet tall
- RP 2% in Pockets, 2-3 feet tall
- PB 2% in Pockets/Evenly Spaced out, 8+ feet tall

**38** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 127.1 49 51-80 N/A

This stand is too wet to harvest. Timber volume is lower in the southeastern third of the stand. The basal area is highly variable throughout. The paper birch are dying and falling out of the canopy. The paper birch age is from the previous inventory was retained in the data.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	55	Pole/Sap/Log	6	49
Paper Birch	20	Pole	8	84
Black Spruce	1	Pole/Log	8	
Northern White Cedar	6	Log/Pole	11	
Quaking Aspen	3	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	High	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub

**39** 6112 - Lowland Aspen Poletimber Medium 4.0 55 N/A

Various pockets were harvested out of this area. This stand was separated out due to its aspen and balsam fir dominance differentiating it from adjacent stands.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	40	Pole/Sapling	5	
Red Maple	10	Pole/Sapling	6	
Quaking Aspen	40	Pole	6	55
Paper Birch	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Michigan Holly	Low	5 - 10 feet	Tall Shrub
Tag Alder	Low	Variable	Tall Shrub

**40** 6132 - Mixed Lowland Forest with Cedar Poletimber Well 13.2 49 81-110 N/A

This stand was kept separate due to its higher cedar content. This stand could potentially be merged into the surrounding stand. Two pockets, adjacent to the northeast, have seen management and fit well, species wise, into the adjacent stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	25	Pole/Sapling	6	
Northern White Cedar	20	Log/Pole	11	125
Quaking Aspen	5	Pole	6	
Red Maple	33	Pole/Sap/Log	7	49
Paper Birch	15	Pole	8	
Black Spruce	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
41	6229 - Mixed lowland shrub	Nonstocked	34.6		Immature	No	This stand is lowland shrub and cattail under dead trees. The stand was like flooded out by beaver activity in the area. Small pockets of forested upland are present.																																																																					
42	6122 - Black Spruce	Poletimber Well	14.2	79	81-110	N/A	The black spruce density increases the further south you go in the stand.																																																																					
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43	6229 - Mixed lowland shrub	Nonstocked	2.7		Immature	No	These are lowland shrub pockets likely created when soil from this area was used to cap the landfill to the west.																																																																					
44	42140 - Planted Mixed Pine	Sawtimber Well	12.3	92	111-140	N/A	There is an inclusion pocket with a lowland drainage and mixed lowland forest in the center of the stand. The pine to the north of the drainage is half red pine and half white pine. The pine to the south is mostly white pine. Based on index card records, the white pine in this stand were likely planted in 1927. The on the ground cored age was used.																																																																					
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45	110 - Low Intensity Urban	Nonstocked	1.9			No	M-32																																																																					
46	110 - Low Intensity Urban	Nonstocked	2.1			No	Transfer Station/Recycling Center																																																																					
47	3102 - Grass	Nonstocked	3.4			No	This stand has mixed vegetation and acts as a power distribution line right off way.																																																																					
48	110 - Low Intensity Urban	Nonstocked	1.7		Immature	No	Alpena Field Office																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	4311 - Pine, Aspen Mix	Sawtimber Well	11.6	80	81-110	N/A	more pine on the east edge. gets wet along SW part of the stand		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		2	Pole/Log	8		White Pine	Trace	Variable	Sapling
Red Maple		22	Log/Pole	12	85	Balsam Fir	Medium	Variable	Sapling
Jack Pine		15	Pole/Log	8		Northern White Cedar	Trace	Variable	Sapling
White Pine		5	Log	14		Glossy Buckthorn	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		30	Log/Pole	11	80	Red Pine	Trace	Variable	Sapling
Red Pine		21	Log	15		Tag Alder	Low	10 - 20 feet	Tall Shrub
Paper Birch		5	Pole	7		White Spruce	Trace	Variable	Sapling
						Red Maple	Medium	>20 feet	Sapling
						Dogwood (spp.)	Medium	5 - 10 feet	Tall Shrub
50	6229 - Mixed lowland shrub	Nonstocked	16.1		Immature	No	This stand is lowland shrub and cattail under dead trees. The stand was like flooded out by beaver activity in the area.		
51	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	16.0	97	111-140	N/A	This is higher ground surrounded by lowland hardwoods. Pockets of low areas are present throughout the stand. Based on index card records, the white pine in this stand were likely planted in 1927. The on the ground cored age was used.		
<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	Log/Pole	12		Red Maple	Low	Variable	Sapling
Paper Birch		5	Log/Pole	11		Balsam Fir	Low	Variable	Sapling
Black Spruce		2	Pole	8		Black Spruce	Low	Variable	Sapling
Red Pine		5	Log	16		White Pine	Low	Variable	Sapling
White Pine		71	Log/XLog	16	97	Beech	Trace	Variable	Sapling
Bigtooth Aspen		5	Log	15					
52	42290 - Natural Mixed Pine	Sawtimber Well	11.7	61	81-110	N/A	On the north side of the power line, it is planted red pine to the east, log size jack pine centrally, and large white pine to the west. The southwest portion of the stand, west of the drainage, is wet but harvestable with mainly jack pine and some black spruce (with scattered red and white pine). The southeast portion of the stand is dominated by natural red pine. In February of 2024 a 15-inch DBH red pine cored at 61 years in the SE pocket of the stand (surprisingly young and fast grown). Other than the northeast pocket of the stand that is row planted red pine, there is no record of planting in this 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>
Jack Pine		25	Log/Pole	11		Balsam Fir	Low	Variable	Sapling
Black Cherry		1	Pole	6		White Pine	Low	Variable	Sapling
Red Maple		7	Pole/Sapling	5		Glossy Buckthorn	High	5 - 10 feet	Tall Shrub
Red Pine		35	Log	15	61	Red Maple	Medium	>20 feet	Sapling
Balsam Fir		1	Pole	8		Black Spruce	Low	< 5 feet	Sapling
Black Spruce		6	Pole	8					
White Pine		25	Log/XLog/Pole	16	86				
53	310 - Herbaceous Openland	Nonstocked	24.5			No	old landfill. capped with soil and grass vegetation.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>54</b>	6120 - Lowland Cedar	Poletimber Well	1.9	115	81-110	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>
Northern White Cedar		90	Pole/Log	8	115	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack		5	Pole/Log	8					
Paper Birch		5	Pole	8					

<b>55</b>	42290 - Natural Mixed Pine	Sawtimber Well	5.0	82	111-140	N/A	There is higher ground to the east and lower ground to the west.		
<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/Log	8		Red Maple	Low	Variable	Sapling
Jack Pine		5	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		20	Pole	8		Black Spruce	Low	Variable	Sapling
Quaking Aspen		5	Log/Pole	12					
Red Pine		59	Log	13	82				
White Pine		1	Log	16					

<b>56</b>	110 - Low Intensity Urban	Nonstocked	1.8			No	Snowmobile Trail/Old Railroad Grade
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<b>57</b>	6229 - Mixed lowland shrub	Nonstocked	23.8		Immature	No	This is a mixture of lowland shrub, cattail, and low density lowland trees.
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<b>58</b>	6113 - Lowland Maple	Sawtimber Well	3.5	95	51-80	N/A	One small upland pocket of cedar and pine is central to the stand. This stand is too wet to harvest.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		5	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
Black Spruce		5	Pole	6		Michigan Holly	High	5 - 10 feet	Tall Shrub
Northern White Cedar		5	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Balsam Fir		5	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling
Red Maple		61	Log/Pole	12	95	White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak		5	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Jack Pine		2	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch		10	Log/Pole	11					
Red Pine		2	XLog/Log	22					

<b>59</b>	6229 - Mixed lowland shrub	Nonstocked	3.1			No	The main body of this stand is a mix of lowland shrub, cattail, and low-density trees. The west arm is a drainage.
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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>60</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	68.8	79	51-80	N/A	This stand is a maze of lowlands with scattered upland pockets. Overall, this stand is too wet to harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	8	Log/Pole	12	
White Pine	5	Log/XLog/Pole	14	
Bigtooth Aspen	5	Log	14	
Tamarack	5	Pole/Log	8	
Red Maple	45	Log/Pole	12	79
Red Pine	2	Log	15	
Paper Birch	15	Log/Pole	11	
Balsam Fir	5	Pole/Sapling	6	
Black Spruce	5	Pole	8	
Quaking Aspen	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Tag Alder	High	Variable	Tall Shrub
White Pine	Low	Variable	Sapling
Black Ash	Low	Variable	Sapling
Black Spruce	Low	Variable	Sapling

<b>61</b>	4133 - Aspen, Mixed Pine	Poletimber Well	4.8	85	51-80	N/A	This stand is composed of upland ridges amongst lowland pockets. The rotten aspen is not worth coring for an age. Trace hybrid oak is in the understory and overstory.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Log	12	85
Red Maple	15	Log/Pole/Sap	15	
Red Pine	5	Log	14	
Jack Pine	15	Pole/Log	8	79
Bigtooth Aspen	10	Log	14	
Paper Birch	5	Log/Pole	11	
White Pine	10	Log/Pole/XLog	12	
Black Spruce	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Leatherleaf	Medium	< 5 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Michigan Holly	Low	5 - 10 feet	Tall Shrub

<b>62</b>	6229 - Mixed lowland shrub	Nonstocked	13.2			No	
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<b>63</b>	6229 - Mixed lowland shrub	Nonstocked	1.8			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>64</b>	4319 - Mixed Upland Forest	Poletimber Medium	14.7	42	51-80	N/A	Top soil was removed from this stand to cap the landfill. This stand is made up of various inclusion pockets, including pine peninsulas to the northwest and a tamarack dominate strip east to west in the south.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		15	Pole	7		Balsam Fir	Low	Variable	Sapling
Red Pine		15	Pole/Sap/Log	8		Autumn Olive	Low	5 - 10 feet	Tall Shrub
Balsam Poplar		21	Pole/Log	8	42	White Spruce	Low	Variable	Sapling
Black Spruce		1	Pole	6		Glossy Buckthorn	Medium	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole/Sap/Log	5		Jack Pine	Low	Variable	Sapling
Balsam Fir		5	Pole/Sapling	6		White Pine	Low	Variable	Sapling
White Spruce		1	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Jack Pine		20	Pole	8		Red Pine	Low	Variable	Sapling
Northern White Cedar		1	Log/Pole	12					
Quaking Aspen		15	Log/Pole	10	49				
Black/Red (Hybrid) Oak		1	Pole/Log	8					
<b>65</b>	622 - Lowland Shrub	Nonstocked	2.5		Immature	No	For all intensive management purposes, this is lowland shrub. Some areas may peak 25% canopy coverage, but are too wet to harvest and have a continuous understory of lowland shrub.		
<b>66</b>	6229 - Mixed lowland shrub	Nonstocked	29.2			No	The area is very wet with scattered cedar, paper birch, black spruce, and red maple amongst the lowland shrub.		
<b>67</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	4.5	59	1-50	N/A	An edge call was made from the east and west sides of the stand in February of 2024. As the paper birch die off, this stand is headed towards non-forested lowland shrub. This stand is too wet to harvest.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		55	Pole	6	59	Balsam Fir	Low	Variable	Sapling
Paper Birch		45	Pole/Sapling	6		Tag Alder	Full	10 - 20 feet	Tall Shrub
<b>68</b>	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	1.6	98		N/A	This is an upland pocket surrounded by lowlands. The jack pine are dying out of the canopy.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole	5		Black Spruce	Low	Variable	Sapling
Jack Pine		38	Log/Pole	11	98				
Paper Birch		15	Pole/Log	9					
Black Spruce		37	Pole/Sap/Log	8					
<b>69</b>	6120 - Lowland Cedar	Poletimber Well	16.2	94		N/A	The cedar are larger in diameter and more spread out to the north. Were the stand becomes more dense, north and central, the stand is hummocky with much leaning and windthrown cedar. The stand is very wet with standing water throughout. There appears to be a drainage with a deciduous canopy component running west-east through the southern third of the stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		5	Pole	5		Northern White Cedar	Low	Variable	Sapling
Northern White Cedar		88	Pole	7	94	Balsam Fir	Low	< 5 feet	Sapling
Tamarack		2	Pole	7		Tamarack	Low	< 5 feet	Sapling
Black Spruce		5	Pole	6		Black Spruce	Low	< 5 feet	Sapling
						Tag Alder	Medium	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
70	6113 - Lowland Maple	Poletimber Well	20.7	58	51-80	N/A	This stand is dominated by slow growing red maple timber. The stand appears to be mostly dry enough to harvest. The diameter growth on the red maple can be attributed to wet soil.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Jack Pine		2	Log/Pole	12		Tag Alder		
Paper Birch		15	Pole	6		Michigan Holly		
Red Pine		1	XLog/Log	19		White Pine		
White Pine		2	Log/XLog	16		Black Spruce		
Northern White Cedar		1	Pole/Log	8		Red Maple		
Red Maple		74	Pole/Sap/Log	6	58	Balsam Fir		
Black Spruce		5	Pole/Log	8				
71	6229 - Mixed lowland shrub	Nonstocked	14.4			No		A small upland pocket is included in this stand south and central.
72	4132 - Aspen, Jack Pine	Sapling Well	12.1	17	Immature	N/A	Lowland shrub is heavy in the lower ground southwest corner of the stand where tree densities are lower. Scattered red pine dominates the eastern most half of the southeast most arm. All trees with a merchantable stick with the exception of oak and select green marked trees were harvested from this stand in August of 2007 via Timbe Sale Name: D & M RR Grade Pine; Timber Sale Number: 54-011-06. In the southwest quarter of the stand only cedar were retained.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		1	XLog/Log	18		Glossy Buckthorn		
Red Maple		5	Sapling	3		Balsam Fir		
Red Oak		2	Sapling	2		Michigan Holly		
Bigtooth Aspen		60	Sapling	3	17	Red Pine		
White Pine		2	Pole	6				
Paper Birch		2	Sapling/Pole	3				
Red Pine		8	Sapling/Pole/Log	3				
Jack Pine		20	Sapling	3				
73	6120 - Lowland Cedar	Sawtimber Well	21.1	132		N/A	This is an old cedar stand. There is scattered windthrow throughout. A lowland shrub drainage runs N-S through the west end. A springtime drainage/possible creek runs W-E through the north end of the stand. Deciduous tree presence is highest along the east and north edges of the stand. Otherwise, the stand is cedar dominate.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		10	Log/Pole	12				
Northern White Cedar		80	Log/Pole	10	132			
Paper Birch		10	Log/Pole	10				
74	42290 - Natural Mixed Pine	Sawtimber Well	7.0	113	81-110	N/A	This is a horseshoe shaped pine ridges with a lowland maple inclusion pocket in the center. This stand could be included in the ERA to the south.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		15	Log/Pole/XLog	12		Red Maple		
Paper Birch		5	Log/Pole	12		Balsam Fir		
Red Pine		40	Log/XLog	17	113	White Pine		
Jack Pine		15	Log/Pole	10		Black Spruce		
Balsam Fir		5	Pole/Sapling	6				
Red Maple		20	Log/Pole	11				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
<b>75</b>	6120 - Lowland Cedar	Poletimber Well	15.8	120	141-170	N/A	<p>The varying density of the cedar can be seen in the leaf off imagery. The understory is minimal in the northeast portion of the stand. Standing water is most predominate across the southern 2/3 of the stand. There is a 1.3-acre log size red maple/paper birch inclusion pocket in the northwest corner of the stand. There is a tamarack dominate area in the southeast end of the stand. The basal area is quite variable and is 200+ in the northeast third of the stand.</p> <p>birch and red maple along the south and aspen along the north</p>																																																					
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<b>76</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	2.7	75	51-80	N/A	<p>The ground. is high enough for harvesting.</p>																																																					
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<b>77</b>	42210 - Natural Red Pine	Sawtimber Well	1.2	80	111-140	N/A	<p>This is a natural red pine stand mapped out of the adjacent stand.</p>																																																					
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<b>78</b>	42110 - Planted Red Pine	Sawtimber Well	10.4	103	111-140	N/A	<p>2026 YOE Inventory BA Measurements: (210, 130, 170, 110, 140, 150, 130, 80)</p> <p>Much of this stand is very tall red pine. Lowland shrub drainages at the east end of the stand separate pine pockets from the remainder of the stand. Index card records indicate that this stand was planted to red pine in 1921.</p>																																																					
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<b>79</b>	110 - Low Intensity Urban	Nonstocked	2.2			No	<p>railroad grade/snowmobile trail</p>																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>80</b>	42290 - Natural Mixed Pine	Poletimber Medium	2.7	25	51-80	N/A	There is log size white pine to the west and a small pocket of log size jack pine to the southeast. The rest of the stand is pole size jack pine and red pine dominate.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	24	Pole	6	25
White Pine	35	Pole/Log	8	80
Red Maple	2	Log/Pole	12	
Jack Pine	38	Pole	7	25
Northern White Cedar	1	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Glossy Buckthorn	Medium	5 - 10 feet	Tall Shrub

<b>81</b>	4133 - Aspen, Mixed Pine	Sapling Well	4.6	17	1-50	N/A	There is a half-acre log size white pine dominate inclusion pocket with red maple, paper birch, and balsam fir along the west edge of the stand. Stand did not meet the objective of natural jack pine. The current condition of upland mix was accepted at the 2016 Compartment Review.  All trees with a merchantable stick, with the exception of oak and red pine 9 inches in DBH or less, were harvested from this stand in August of 2007 via Timbe Sale Name: D & M RR Grade Pine; Timber Sale Number: 54-011-06.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	Log	15	
Bigtooth Aspen	55	Sapling	2	17
Paper Birch	2	Pole/Sapling	5	
White Pine	15	Log/Pole/XLog	10	
Red Maple	3	Log/Pole	12	
Red Pine	20	Pole/Log/Sap	8	
Balsam Fir	3	Sapling/Pole	2	

Sub-Canopy Species	Density	Avg. Height	Size
Glossy Buckthorn	High	5 - 10 feet	Tall Shrub

<b>82</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	14.4	94	81-110	N/A	This stand is made up of many high and low ground inclusion pockets.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10	XLog/Log	20	
Quaking Aspen	15	Pole	7	
White Pine	10	XLog/Log	20	
Bigtooth Aspen	5	Pole	6	
Northern White Cedar	5	Log/Pole	12	
Red Maple	35	Log/Pole/Sap	12	94
Paper Birch	15	Pole/Log/Sap	8	
Red Oak	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub
Red Oak	Trace	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Low	< 5 feet	Sapling

<b>83</b>	310 - Herbaceous Openland	Nonstocked	7.7			No	This is a power line right of way.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
84	330 - Low-Density Trees	Nonstocked	15.0	0		No	54104084 12.5 acres Areas of deduct show up best in MiFI with the MI best available images 9 plots Averaged 1,800 RP/acre 1 and 2 year old seedlings about 6" – 1 foot tall Aspen is the major competitor (8 feet tall) Please change treatment to skidder release (10/1/2020) and deduct the areas noted The skidder herbicide application was completed on 9/23/21. PUER 8/11/22 Comments: Spray application moderately successful. Red Maple and Aspen competition may continue to be an issue. Consider PCT after a few more years of pine establishment. Cause of pine mortality unknown. Late season spraying may be the cause of the failure. Continue to monitor as if stands were planted. Before Application: oak/Cherry 5%, Aspen 45%, RM 50%; Post Application: 80%, 30%, and 50% control respectively.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
85	4133 - Aspen, Mixed Pine	Poletimber Well	46.4	34	1-50	N/A	The frequency of pine and pine pockets amongst the aspen is higher in the southern half of the stand. Scattered red pine were retained during the last harvest and are more frequent in the southern half of the stand. Balsam fir is mostly present in the southern half of the stand. Stand did not meet objectives of natural jack pine. Accepted the current condition of Upland mix at compartment review. This stand was harvested in a sale closed in September of 1989; Sale Name: High-Low Block; Sale No.: 54-063-86-01																																																													
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86	6229 - Mixed lowland shrub	Nonstocked	1.4			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
87	6229 - Mixed lowland shrub	Nonstocked	2.8		Immature	No	Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
88	4319 - Mixed Upland Forest	Sawtimber Well	21.1	87	111-140	N/A	Red pine and white pine are scattered throughout with a couple, less than 1-acre, red pine dominate pockets present. Some lowland shrub veins and pockets are present in the stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
89	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	3.7	34	Immature	N/A	This stand is essentially lowland shrub with scattered deciduous and coniferous trees. The eastern third of the stand could be broken off into a lowland shrub stand. This stand is too wet to harvest.																																									
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90	6120 - Lowland Cedar	Poletimber Well	11.6	125		N/A	This stand is too wet to harvest. A northern/NE aspect slope separates this low ground from the higher ground stand to the south along the southern edge.																																									
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91	622 - Lowland Shrub	Nonstocked	0.9			No	This shrub stand is dominated by glossy buckthorn. Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.																																									
92	429 - Mixed Upland Conifers	Sawtimber Well	1.0	108	111-140	N/A	This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. It was originally part of the harvest to the north.																																									
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93	622 - Lowland Shrub	Nonstocked	2.6		Immature	No																																										
94	3303 - Mixed Low Density Trees	Nonstocked	1.5	0		No	This is the cleared, intensively used area for Camp Woodlands. The notch at the top of the stand shape corresponds to the rough location of the septic drain field. The shape includes a power line cut, the camp building, the yard, the turn circle and driveway.																																									
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<b>95</b>	4133 - Aspen, Mixed Pine	Sapling Well	4.9	17	1-50	N/A	<p>This stand did not meet the objective of natural jack pine. The current condition of upland mix was accepted at the 2016 Compartment Review. Some lowland shrub inclusion pockets are present in the north of the stand.</p> <p>All trees with a merchantable stick with the exception of select green marked trees were harvested from this stand in August of 2007 via Timbe Sale Name: D &amp; M RR Grade Pine; Timber Sale Number: 54-011-06.</p>																																			
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<b>96</b>	4133 - Aspen, Mixed Pine	Sapling Well	3.6	17	1-50	N/A																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**97**      42210 - Natural Red Pine      Sapling Medium      12.8      6      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	88	Sapling	1	6
Red Maple	10	Sapling	1	
White Pine	1	Sapling	1	
Red Oak	1	Sapling	1	

The red pine were averaging about 3 ft tall in February of 2024. This portion of the stand regenerated naturally to red pine so are being managed separately from the adjacent area that is to be row planted to red pine.

Natural Regen survey completed June of 2023: Ran 6 transects in 11 acres; 2,713 red pine per acre on average with an average height of 2ft. An ocular estimate of 60% free to grow was made. The major competition was limited red maple in the south portion of the stand with small jack pine and white pine starting to grow.

PUER 8/11/22 Comments: Spray application moderately successful. Red Maple and Aspen competition may continue to be an issue. Consider PCT after a few more years of pine establishment. Cause of pine mortality unknown. Late season spraying may be the cause of the failure. Continue to monitor as if stands were planted. Before Application: oak/Cherry 5%, Aspen 45%, RM 50%; Post Application: 80%, 30%, and 50% control respectively.

These areas of successful natural red pine regeneration were released with herbicide on 9/23/21.

A natural regeneration check was completed in May of 2021. There was a full stocking of naturally regenerated red pine.

South 5 acres of naturally regenerated red pine survey data:  
3 plots: Averaged 3,000 RP/acre and 1,600 WP/acre  
1 and 2 year old seedlings about 6" – 1 foot tall  
Red Maple is the major competitor (4 - 6 feet tall)

Survey data for 5 acres to the north with naturally regenerated red pine:  
5 plots: Averaged 2,000 RP/acre  
1 and 2 year old seedlings about 6" – 1 foot tall  
Red Maple is the major competitor (4 - 6 feet tall)

This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.

**98**      4123 - Red Oak      Sawtimber Well      15.6      120      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log/Pole	11		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	2	Pole	7		White Pine	Low	Variable	Sapling
Red Oak	78	Log	15	120	Red Oak	Medium	Variable	Sapling
White Pine	10	Log/Pole	11					

Aging one 15-inch DBH oak during the 2026 YOE Inventory (February 2024) gave this stand its old age. There is a pocket of red pine in the northern half of the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>99</b>	4133 - Aspen, Mixed Pine	Poletimber Well	6.9	53	Unspecified	N/A	This stand was separated out from the stands to the west due to the dominance of aspen in the overstory. The suppressed red pine in this stand are a continuation of the planted red pine in the adjacent stands to the west. Manage this stand based on the aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		60	Pole	8	53	Red Oak		Low	Variable	Sapling	
Red Oak		15	XLog/Log	18		Red Maple		High	Variable	Sapling	
White Pine		10	Log/Pole	10		White Spruce		Low	Variable	Sapling	
Red Pine		15	Pole/Log	8		Balsam Fir		Low	Variable	Sapling	

<b>100</b>	6120 - Lowland Cedar	Sawtimber Well	8.0	125	171-200	N/A	There is an inclusion pocket of lowland deciduous in the south-central portion of the stand. This stand is too wet to harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		5	Pole/Log	8							
Red Maple		10	Pole/Log	8							
Northern White Cedar		80	Log/Pole	11	125						
Quaking Aspen		5	Log	15							

<b>101</b>	6123 - Lowland Fir	Poletimber Poor	7.4	41		N/A	This stand is too wet to harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		10	Pole	8		Black Ash		Medium	Variable	Sapling	
Paper Birch		5	Pole/Sapling	7		Balsam Fir		Medium	Variable	Sapling	
Balsam Poplar		5	Pole	8		Michigan Holly		High	5 - 10 feet	Tall Shrub	
Northern White Cedar		10	Log	12		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Balsam Fir		70	Pole/Sapling	5	41						

<b>102</b>	42220 - Natural Jack Pine	Sawtimber Well	0.8	79	81-110	N/A	This is a nice, mature jack pine ridge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		2	Log	16		White Pine		Low	Variable	Sapling	
Black Spruce		2	Pole	8		Red Pine		Low	Variable	Sapling	
Jack Pine		94	Log/Pole	11	79	Jack Pine		Low	Variable	Sapling	
Red Maple		2	Log/Pole	10							

<b>103</b>	6121 - Tamarack	Poletimber Well	6.1	59	51-80	N/A	There is a pine ridge along the east edge of the stand. The rest of the stand is dominated by tamarack with scattered black spruce. Other than the ridge to the east, this stand is too wet to harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		4	Log/Pole	11		Black Spruce		Low	Variable	Sapling	
Black Spruce		25	Pole	7		Tag Alder		High	5 - 10 feet	Tall Shrub	
Paper Birch		2	Log/Pole	11		Glossy Buckthorn		High	5 - 10 feet	Tall Shrub	
Tamarack		63	Pole	7	59	Michigan Holly		Medium	5 - 10 feet	Tall Shrub	
Red Pine		2	Log	16							
Red Maple		2	Pole	7							
White Pine		2	XLog/Log	20							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>104</b>	6121 - Tamarack	Poletimber Medium	4.8	75	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>
Tamarack		58	Pole/Log	8	75	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple		40	Pole/Log	8		Michigan Holly	Medium	5 - 10 feet	Tall Shrub
White Pine		2	XLog/Log	18		Glossy Buckthorn	Medium	5 - 10 feet	Tall Shrub
<b>105</b>	42100 - Planted White Pine	Sawtimber Well	3.2	92	111-140	N/A	Based on index card records, the white pine in this stand were likely planted in 1927. The on the ground cored age was used.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		5	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Red Pine		28	Log	16		Red Maple	Low	>20 feet	Sapling
Paper Birch		2	Pole	8		Leatherleaf	Full	< 5 feet	Tall Shrub
Red Maple		5	Log/Pole/XLog	12		Beech	Trace	Variable	Sapling
White Pine		60	Log/XLog	16	92				
<b>106</b>	6113 - Lowland Maple	Poletimber Medium	0.4	75	1-50	N/A	This stand is too wet to harvest.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		10	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple		70	Log/Pole	10	75	Glossy Buckthorn	High	5 - 10 feet	Tall Shrub
Balsam Fir		20	Pole/Sapling	6		Michigan Holly	Low	5 - 10 feet	Tall Shrub
<b>107</b>	6113 - Lowland Maple	Poletimber Medium	1.1	70	1-50	N/A	This stand is likely dry enough for harvesting but low in volume and quantity.		
<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		5	Log/XLog	16		Glossy Buckthorn	Full	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole	5					
Red Maple		85	Pole/Log	9	70				
Quaking Aspen		5	Log	11					
<b>108</b>	6113 - Lowland Maple	Poletimber Well	1.0	60	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>
Paper Birch		20	Pole	7		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Maple		60	Pole	7	60	Glossy Buckthorn	High	5 - 10 feet	Tall Shrub
Jack Pine		5	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		5	Pole	7					
Red Pine		5	Log/Pole	13					
White Pine		5	Log/Pole	12					
<b>109</b>	622 - Lowland Shrub	Nonstocked	0.9		Immature	No	Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.		
<b>110</b>	622 - Lowland Shrub	Nonstocked	2.2		Immature	No	Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.		





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**111** 42210 - Natural Red Pine Poletimber Well 3.1 34 51-80 N/A This stand is the same age as and was regenerated with the stand to the east but came back red pine dominate.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	70	Pole	7	34
Jack Pine	20	Pole/Sapling	5	
Bigtooth Aspen	3	Pole	6	
Red Oak	2	Pole	8	
White Pine	5	Pole/Log/Sap	8	

**112** 4311 - Pine, Aspen Mix Poletimber Well 7.8 46 81-110 N/A Some lowland shrub pockets are present north and central. This stand is pole size jack pine dominate to the north, log size mixed upland forest centrally, and pole size aspen dominate to the south.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	35	Pole	7	
Red Pine	15	Log	15	
Jack Pine	40	Pole	7	46
Red Maple	5	Pole/Log	8	
Red Oak	5	Log/Pole/XLog	16	

**113** 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 3.4 55 1-50 N/A There looks to be 3 ages of red maple in this stand. Some of this stand was cut with the stand to the west. A short steep slope separates this stand from the stand to the south along the southern edge.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	1	Pole/Log	8	
Red Pine	1	Log/Pole	10	
Red Maple	58	Pole/Log	8	55
Paper Birch	35	Pole/Log	8	
White Pine	5	XLog/Log	19	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Glossy Buckthorn	High	5 - 10 feet	Tall Shrub

**114** 6139 - Mixed Lowland Forest Poletimber Well 7.7 74 81-110 N/A There is a younger pole size timber in the north end with log sized timber in the southern 1/3 of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	6	
Red Maple	31	Pole/Log	9	74
Black Spruce	10	Pole	7	
Northern White Cedar	10	Log	13	
Paper Birch	10	Pole/Log	8	
Tamarack	29	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>115</b>	42290 - Natural Mixed Pine	Sawtimber Well	5.6	89	111-140	N/A	Index card planting records indicate that 12 acres was planted to jack pine/red pine in this quarter-quarter in 1930. It is likely the red pine in this stand is a mix of planted and naturally regenerated trees. The on the ground coring age was used. This stand is mostly dominated by red pine. The red pine to the west is larger diameter and more spread out and the red pine to the east is more densely spaced. A deciduous inclusion pocket is included centrally for mapping and management purposes. This stand could possibly be added to the ERA to the south.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		12	Log/Pole	12		White Pine		Low	Variable	Sapling	
Paper Birch		10	Log/Pole	11		Balsam Fir		Low	Variable	Sapling	
Balsam Fir		5	Pole/Sapling	6							
Jack Pine		1	Log/Pole	12							
Red Pine		40	Log/XLog	15	89						
Red Oak		2	Log/XLog	15							
White Pine		25	Log/Pole/XLog	12							
Bigtooth Aspen		5	Log/Pole	12							
<b>116</b>	42210 - Natural Red Pine	Sawtimber Well	4.8	95	111-140	N/A	This red pine was essentially left over from the red pine harvest to the east. The northwest half of the stand is Xlog sized red pine on average and is likely somewhat older.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Log	12		Balsam Fir		Low	Variable	Sapling	
Bigtooth Aspen		5	Pole/Log	8		Black Spruce		Low	Variable	Sapling	
Balsam Fir		4	Pole/Log/Sap	8		Red Maple		Low	Variable	Sapling	
Jack Pine		1	Log	10		Red Oak		Low	Variable	Sapling	
Red Maple		5	Pole	7							
Red Pine		83	Log	14	95						
<b>117</b>	429 - Mixed Upland Conifers	Sawtimber Well	3.0	87	81-110	N/A	This stand is slightly more upland than the stand to the southwest. This stand went unharvested when the stand to the southwest was last cut.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	XLog/Log	20		Balsam Fir		Low	Variable	Sapling	
Black Spruce		20	Log/Pole	10		White Pine		Low	Variable	Sapling	
Northern White Cedar		15	Log/Pole	12		Beech		Trace	Variable	Sapling	
Paper Birch		5	Log/Pole	10							
Balsam Fir		10	Pole	7							
Red Pine		10	Log/XLog	16							
Red Maple		30	Log/Pole	12	87						
<b>118</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	3.7	87	81-110	N/A	a log size black spruce pocket connects 118 and 88				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		1	Log	11		White Pine		Low	Variable	Sapling	
White Pine		17	XLog/Log/Pole	20		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Red Pine		2	XLog/Log	18		Balsam Fir		Low	Variable	Sapling	
Paper Birch		26	Log/Pole	11		Black Spruce		Low	Variable	Sapling	
Red Maple		37	Log/Pole	12	87						
Black Spruce		17	Pole	7							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**119** 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 5.2 72 1-50 N/A This stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Sapling	6	72	Michigan Holly	Full	5 - 10 feet	Tall Shrub
Black Spruce	10	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Paper Birch	35	Pole	8					

**120** 6113 - Lowland Maple Sawtimber Well 1.7 87 111-140 N/A Red pine and white pine are scattered throughout with a couple, less than 1-acre, red pine dominate pockets present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Log	8		White Pine	Medium	Variable	Sapling
Northern White Cedar	2	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Red Maple	65	Log/Pole	12	87	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	2	Log	15					
White Pine	11	Log/Pole/XLog	12					
Red Pine	5	Log/XLog	16					

**121** 622 - Lowland Shrub Nonstocked 1.6 Immature No

**122** 622 - Lowland Shrub Nonstocked 1.8 Immature No

**123** 622 - Lowland Shrub Nonstocked 1.2 Immature No

**124** 4199 - Other Mixed Upland Deciduous Sawtimber Well 3.7 97 81-110 N/A A few scattered pine and oak legacy trees are present. A red maple was aged but rings were difficult to count.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	25	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Red Oak	1	XLog	27					
White Pine	1	XLog	26					
Red Pine	1	XLog	22					
Balsam Fir	15	Pole/Sapling	6					
Red Maple	57	Log/Pole	12	97				

**125** 622 - Lowland Shrub Nonstocked 1.6 Immature No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
<b>126</b>	6113 - Lowland Maple	Sawtimber Well	11.7	97	81-110	N/A	A drainage was flowing W-E through the north end in March of 2026. This stand had much standing water and much of this stand may see die-off due to long periods of standing water. Eventually much of this stand may convert to lowland shrub. This stand is too wet to harvest.																																																									
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<b>127</b>	622 - Lowland Shrub	Nonstocked	0.7	0		No	2026 YOE Inventory BA Measurements: (210, 130, 170, 110, 140, 150, 130, 80) Much of this stand is very tall red pine. Lowland shrub drainages at the east end of the stand separate pine pockets from the remainder of the stand.																																																									
<b>128</b>	622 - Lowland Shrub	Nonstocked	0.4	0		No	2026 YOE Inventory BA Measurements: (210, 130, 170, 110, 140, 150, 130, 80) high ridges with pine and low hardwoods with standing water.																																																									
<b>129</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	3.6	97	81-110	N/A	A ridge separates this stand from the higher ground to the south. Higher ground was included in this stand at the east end due to similar trees species composition.																																																									
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