



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54172

Entry Year 2026

Acreage: 2,175

County Cheboygan

Management Area: Presque Isle Lake and Till Plains

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**Stand Examiner:** John St. Pierre

## Legal Description:

T37N, R1E, Sec. 20,21,28,&33.

## Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan and its residents.

## Soil and topography:

Landtype Associations (LTAs) include East Lake (26%), Rubicon (15%), Au Gres (13%), and Croswell sands (7%). Lower lying areas feature Lupton (7%), Kinross (7%), and Roscommon mucks (2%) as well as Tawas peat (3%). Lesser prevalent sand and muck soil types populate the remainder of the compartment. Topography is generally flat with areas of slight undulation. The associated habitat types are PARVVb/AFO, PARVVb, PARVCo, and PARVHa. These habitat types lend themselves to succession toward White/Red Pine, Red Maple, Sugar Maple, and American Beech forests. Sandy lake plain over limestone bedrock near the surface is the dominant landform within this compartment.

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

Compartment 172 has both state and private-land interfaces on its extremities. Privately owned property bordering state land exists along the northern border of Section 21 and the entire southern border of Section 33.

## Unique Natural Features:

An Ecological Reference Area (ERA) known as 'Linsey Muskeg ERA' is present in the northeast portion of the compartment within Section 21. Michigan Natural Features Inventory (MNFI) surveys have highlighted the features of this unique scrub bog. MNFI management comments state: "The main management recommendations are to allow natural processes to operate unhindered and to retain an intact buffer of natural communities surrounding the wetland to minimize the threat of hydrological alteration. In the event of wildfire, establishment of new fire lines should be avoided and existing fire breaks (i.e. roads and wetlands) should be used".

This compartment (and surrounding compartments) holds a sizable amount natural pine stands and communities. Most are of fire origin, the result of lands 'burning over' after the 'logging era' exhausted local available timber to harvest. Species composition range from red pine to white pine dominant. As well as mixed pine with strong components of deciduous species. Burn scar stumps are prevalent in many areas. The stumps serve as a physical reminder of Michigan's 'logging era' and that it occurred not all that long ago...

## Archeological, Historical, and Cultural Features:

No known archeological, historical or cultural features.

## Special Management Designations or Considerations:

General forest health concerns and issues are present but not prevalent within this compartment. Beech Bark Disease (BBD), Emerald Ash Borer (EAB), and White Trunk Rot are present yet the cover types they affect are quite limited (beech & ash) within the compartment or haven't yet reached an age when most signs/symptoms appear (aspen). Almost no non-native/invasive flora was observed during the inventory process. Spotted Knapweed can be found along regularly traveled two-tracks and poor dirt roads but native flora remains dominant throughout compartment 172. It should be noted that inventory for this compartment was primarily conducted during fall and winter months. These conditions weren't conducive to identifying all potential forest health issues and invasive flora present.

## Watershed and Fisheries Considerations:

## 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, pileated woodpecker, ruffed grouse, 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; 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 sand/gravel operations are two miles southwest. There may be some potential for sand & gravel within the compartment, but potential for economic commercial development may be limited, and any aggregate may not have much value beyond use by the county road commission or DNR for local road maintenance. No known potential exists beneath the compartment for oil & gas from known producing formations. One oil & gas test well was drilled in the compartment in 1963, and it was a dry hole. There has been limited history of well permitting activity in or around the compartment and no leasing activity involving State-owned mineral rights within the past six years. 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:**

Seasonal county roads provide decent/good access into the compartment during snow-off conditions. Several poor-dirt and two-track roads exist offering further access during snow-off conditions. In winter, only Orchard Beach Rd is plowed by the county. In short, snowmobiles or snowshoes are the two means of getting into the majority of compartment 172 during heavy snow winters. Snowmobile Trail #99 is kept groomed during snowmobile season and breaks up very slowly following springs arrival (because of densely packed snow). The portion of Lake 16 Rd that crosses the large bog complex would currently have difficulty supporting anything larger than a standard work truck. Although, the forested area east of the bog has been treated in the past using the access Lake 16 Rd provides.

### **Survey Needs:**

None.

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

Snowmobile Trail #99 and Black Lake ORV Trail(s) both wind through portions of compartment 172. Both of these trail systems are widely used by recreationists. Snowmobiles, ORVs, dirtbiking, hunting, and general meandering are extremely popular during the appropriate seasons.

### **Fire Protection:**

A large component of natural and planted red pine cover types are found in compartment 172. The natural stands of red pine are undoubtedly of fire origin. Burn scar stumps are prolific throughout the compartment as well. This suggests that fire is a natural regime that has and will most likely occur again within the localized area. A small wildlife swept across a portion of C169, Stand 34 in 2009. This stand shares the northern boundary of compartment 172. Fire access into the compartment is generally suitable during snow-off conditions. Lake 16 and the open water portion of the bog southeast of Lake 16 Rd are the closest watering points. The small no-name lake south of Orchard Beach Rd in section 33 could be utilized, but access to the lake itself would be difficult.

### **Additional Compartment Information:**

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

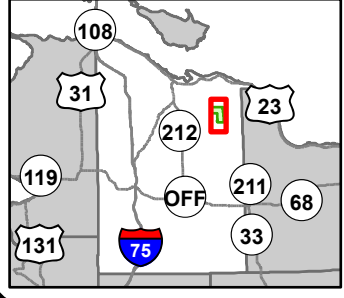
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

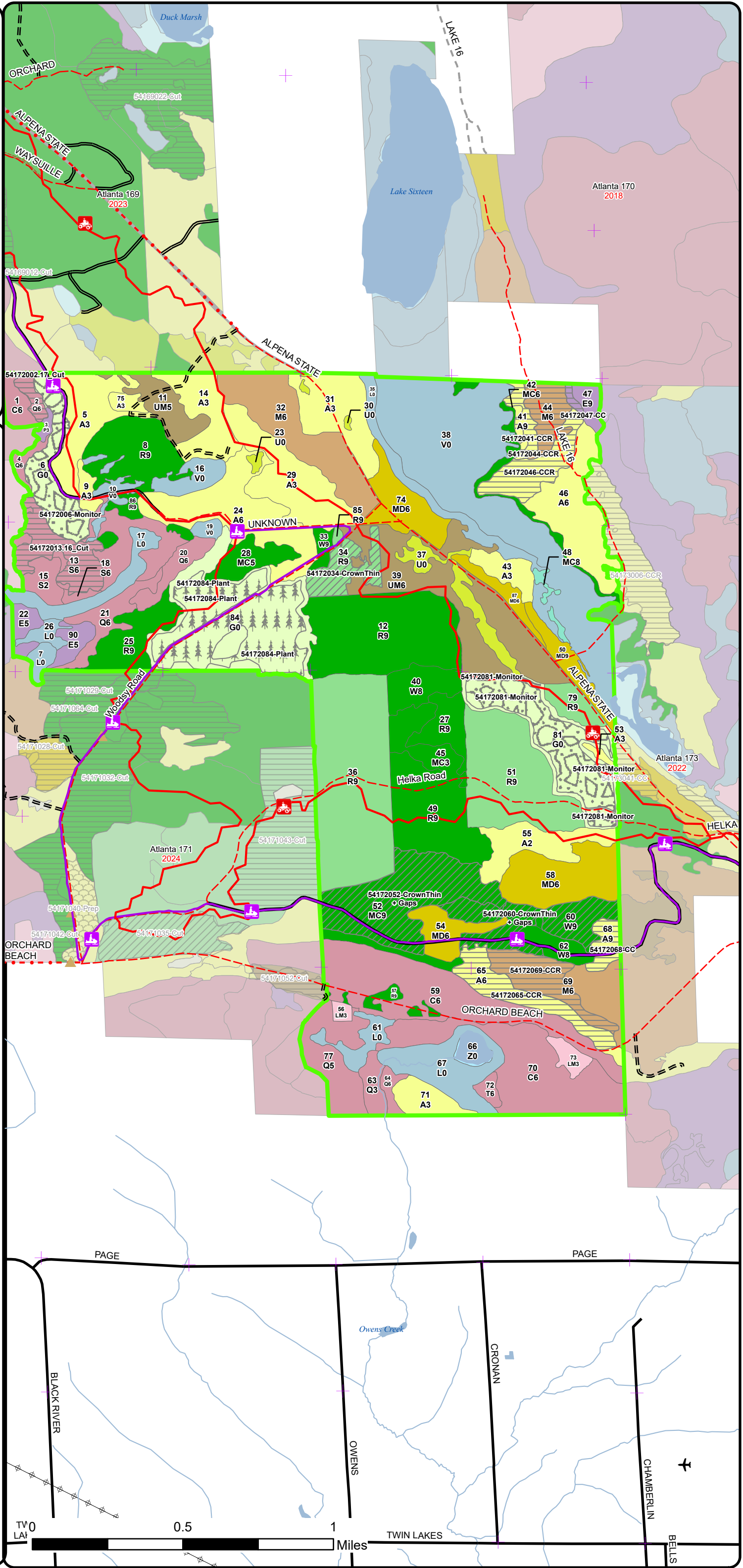
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 54172  
 T37N, R1E, Sec: 20, 21, 28, 32, 33  
 County: Cheboygan  
 Unit: Atlanta  
 Mgmt Area: Presque Isle Lake and Till Plains  
 YOE: 2026  
 Acres: 2175.4 GIS Calculated  
 Examiner: John St. Pierre  
 Map Revised: 09/10/2024  
 Map Phase: Post Review

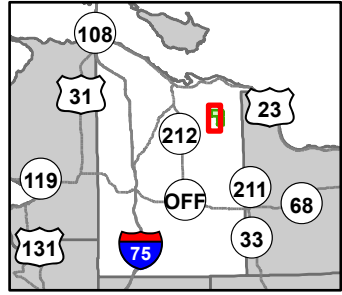


- Airport
- Berms
- Remonumented Section Corners
- ORV Trails
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Planting (Tree Species)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
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- 413 - Aspen Types
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- 421 - Planted Pines
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- 429 - Mixed Upland Conifers
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- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

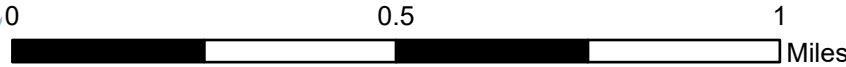
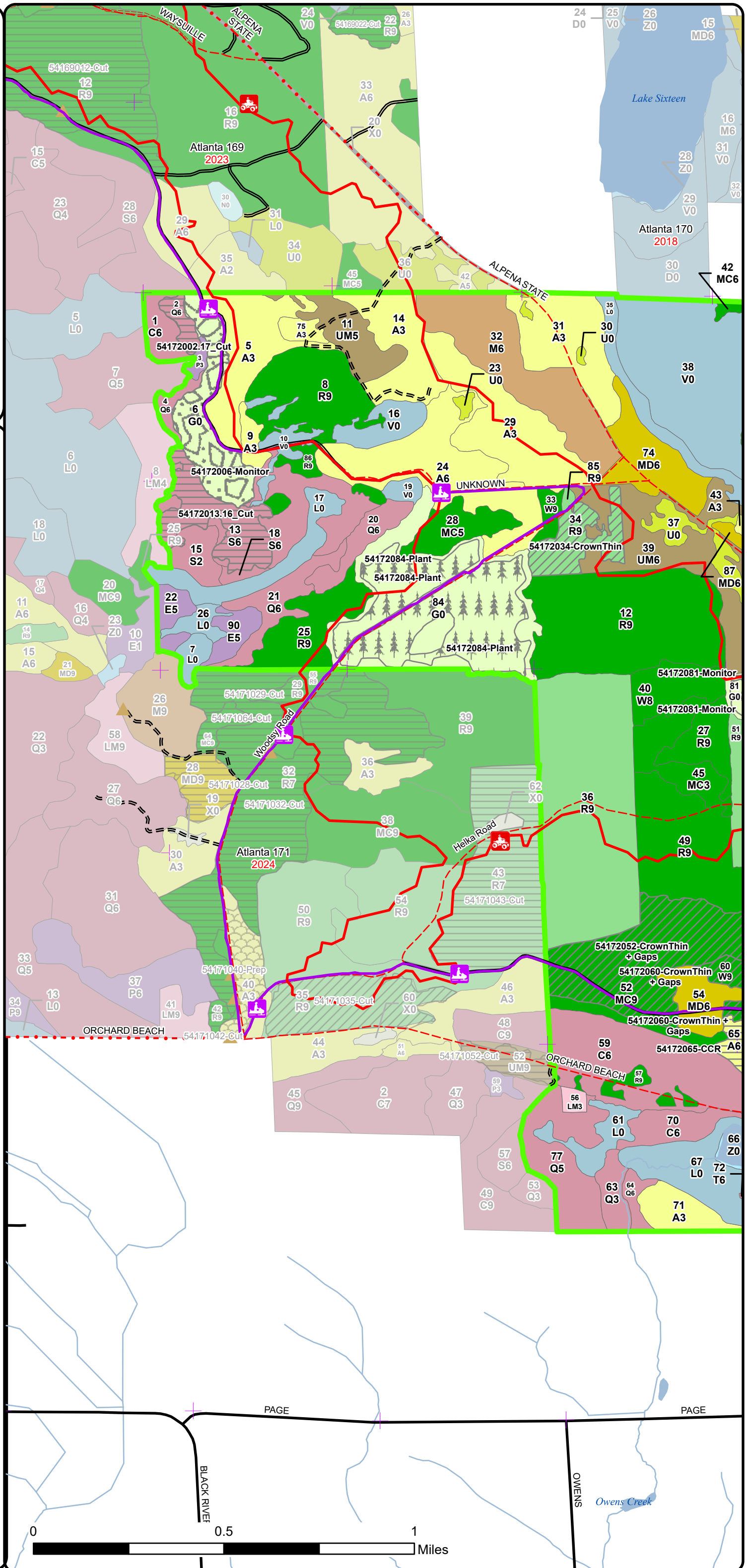


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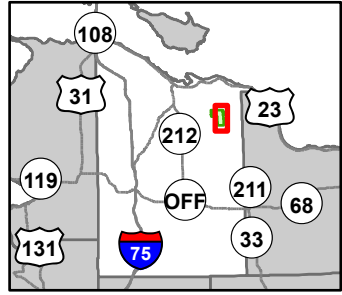
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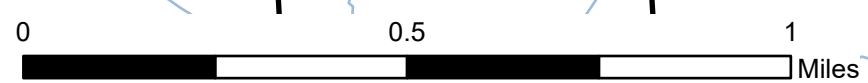
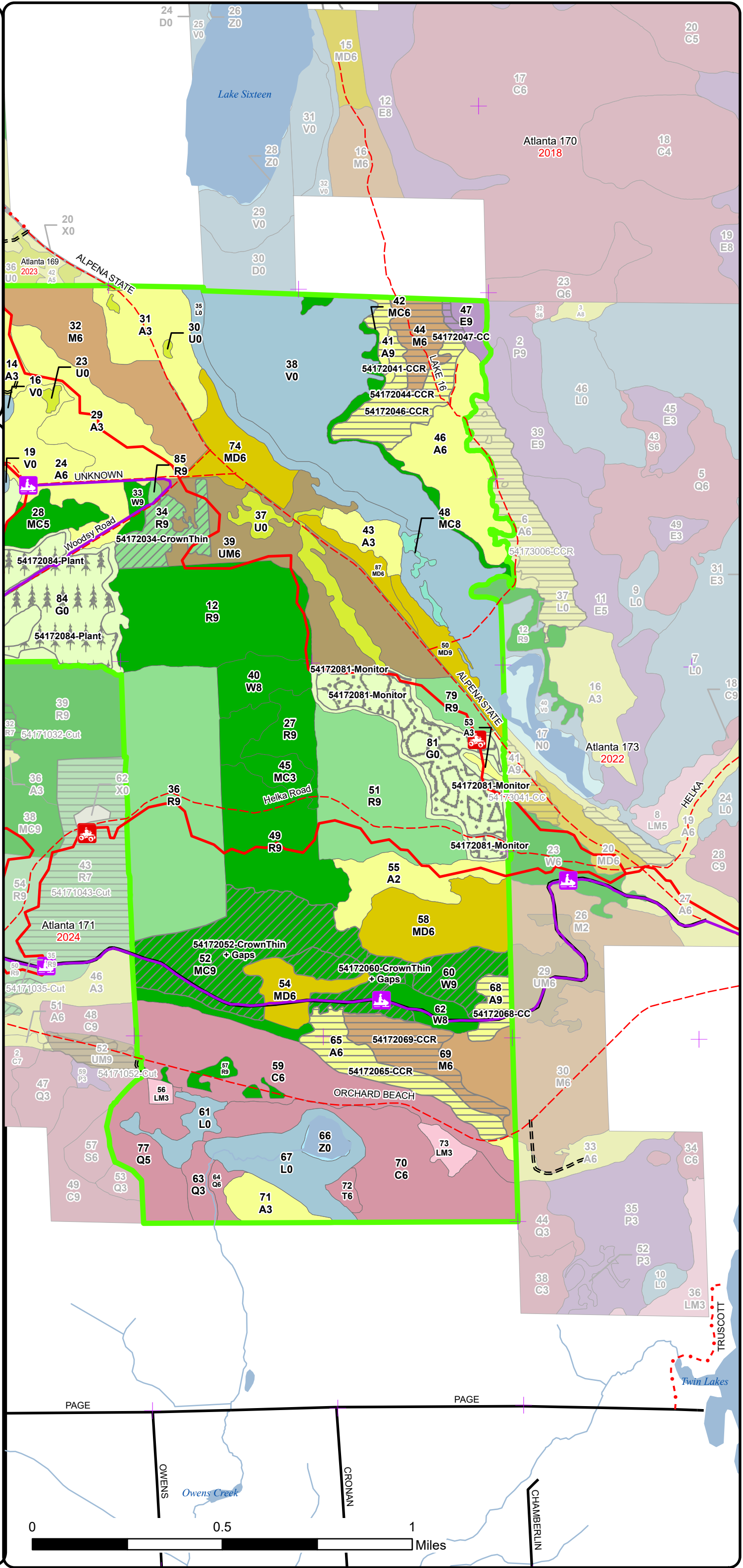
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 OWENS  
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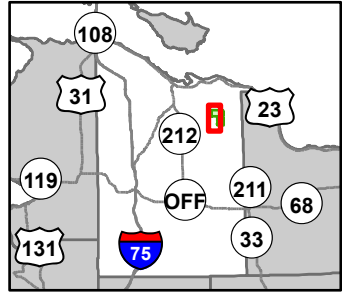
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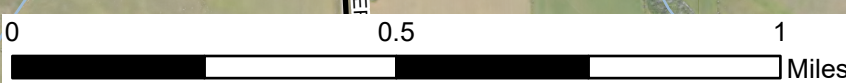
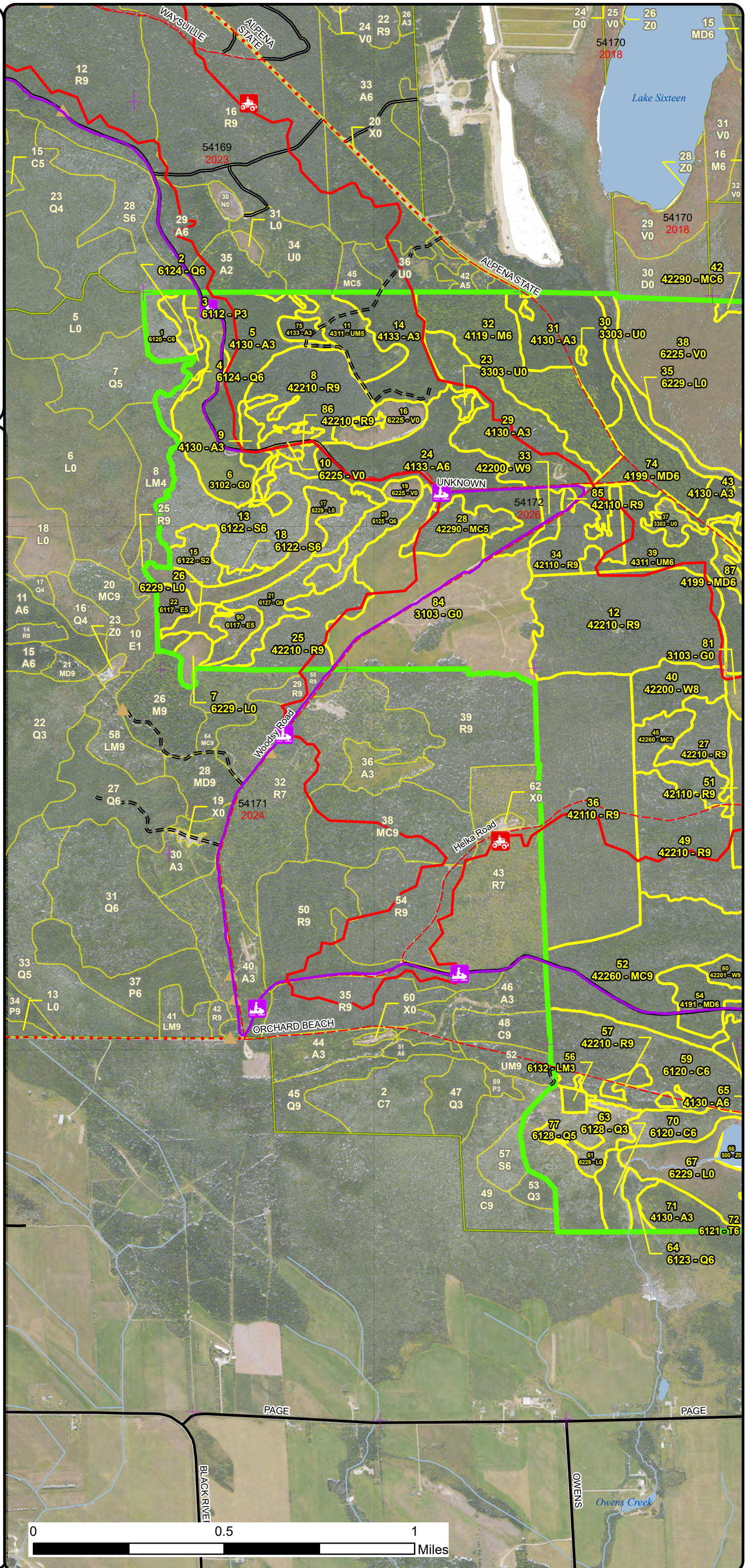
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**Stand Boundary Map**

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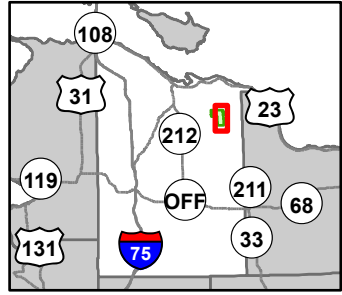


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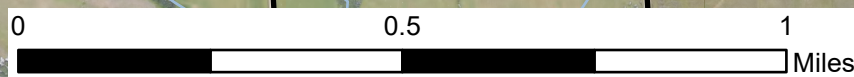
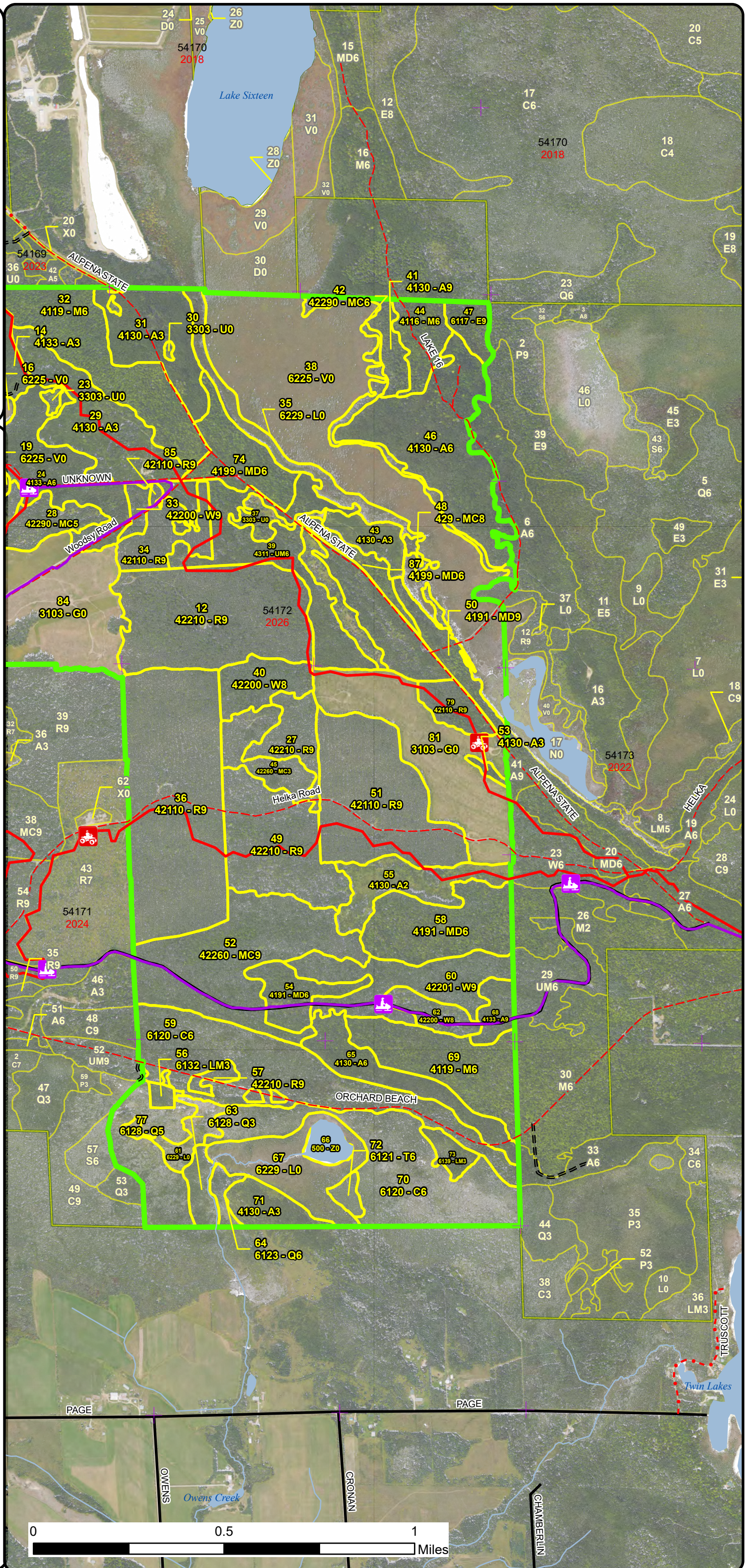


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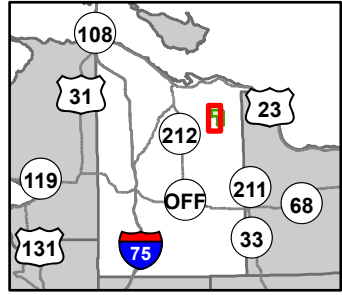


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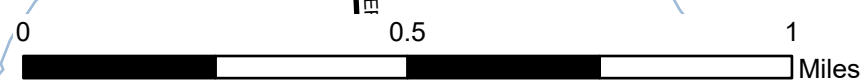
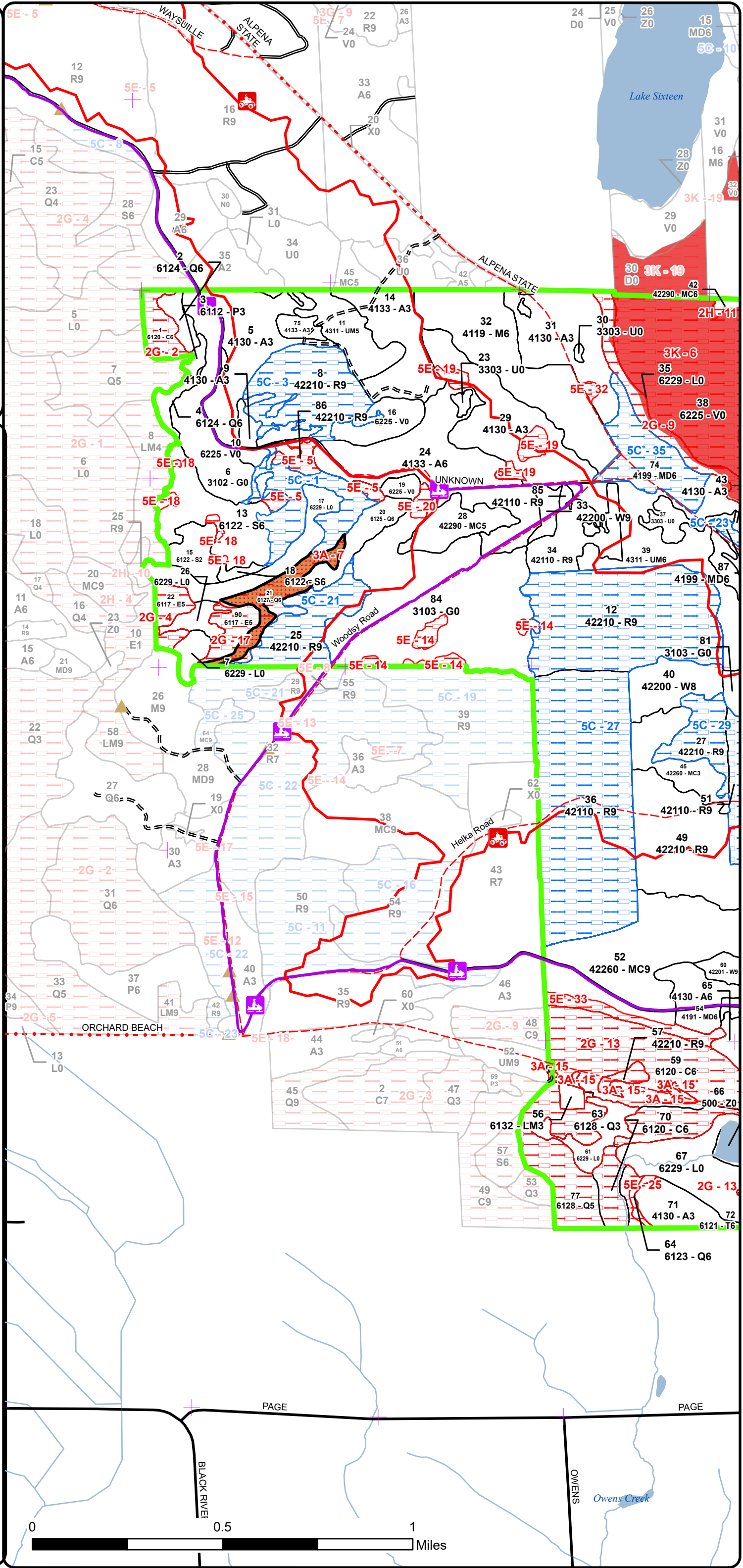


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- SCA
- Available w/ Constraints
- Unavailable



BLACK RIVER

OWENS

Owens Creek

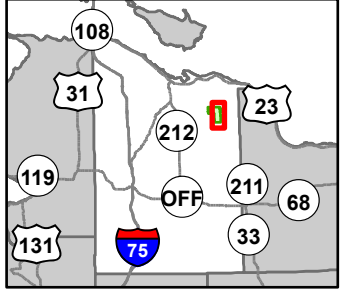
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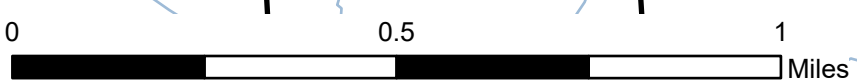
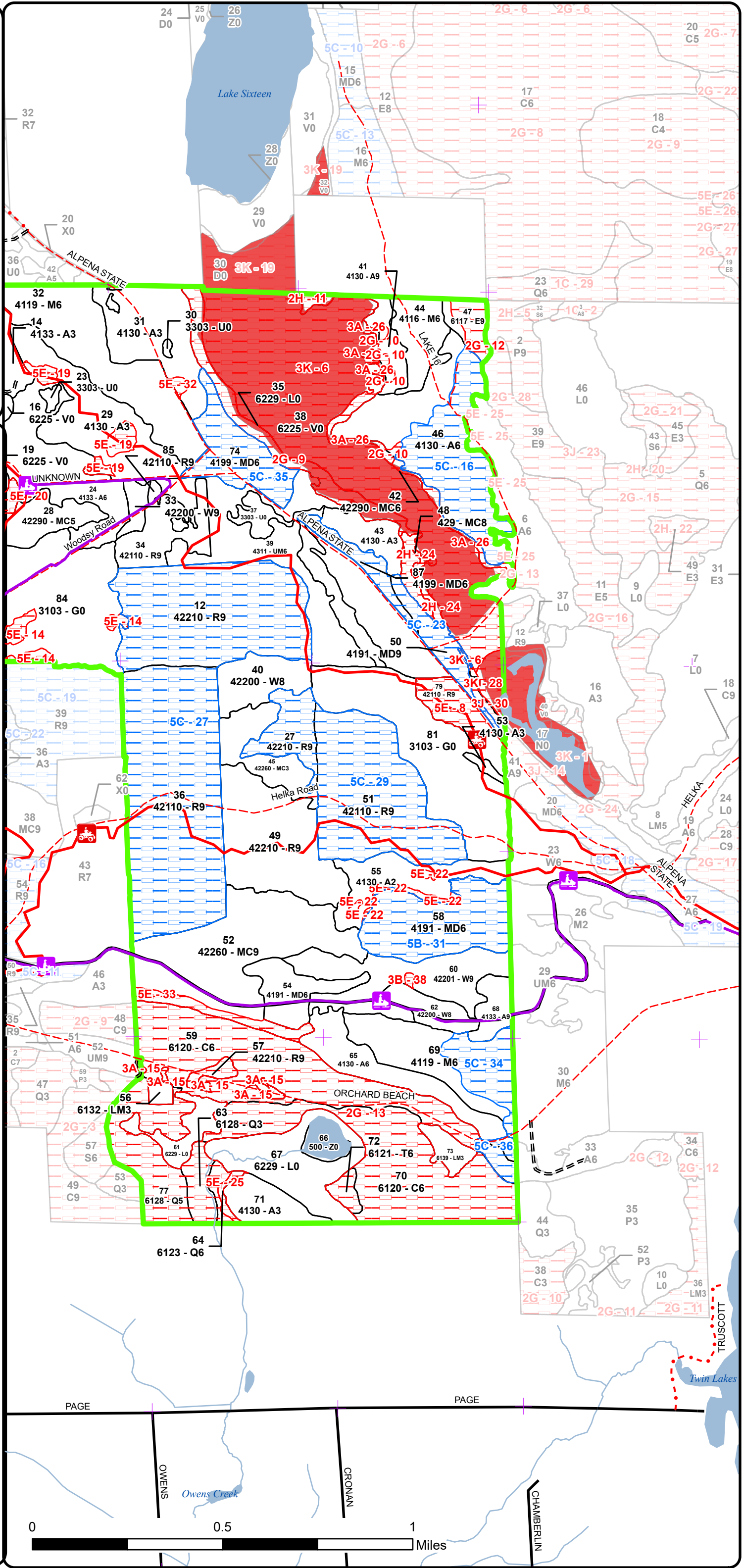


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  - Compartment Boundary
  - Available w/ Constraints
  - Unavailable
- 5B: Maintain for regeneration purposes



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

Atlanta Mgt. Unit

Compartment 172 Year of Entry 2026

John St. Pierre : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	85	54	68	57	0	95	9	0	10	0	0	0	0	0	0	0	0	377
Bog	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
Cedar	0	0	0	0	0	0	0	0	0	0	0	80	0	77	0	0	0	0	157
Herbaceous Openland	203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203
Low-Density Trees	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Aspen/Balsam Poplar	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	9	12	5	21	0	5	32	0	0	0	0	0	0	82
Lowland Deciduous	0	0	0	0	0	16	0	0	0	0	9	0	0	0	0	0	0	0	25
Lowland Mixed Forest	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Lowland Spruce/Fir	0	0	0	0	0	10	2	0	0	0	0	54	0	0	0	0	0	0	66
Mixed Upland Deciduous	0	0	0	0	0	0	17	0	0	90	0	0	0	0	0	0	0	0	107
Natural Mixed Pines	0	0	0	19	15	13	0	0	0	77	0	0	0	0	0	0	0	0	124
Northern Hardwood	0	0	0	0	0	0	0	0	0	69	42	0	0	0	0	0	0	0	111
Red Pine	0	0	0	0	0	0	0	20	133	259	26	0	0	0	0	0	0	0	438
Tamarack	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	19	77	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	0	0	69	5	0	0	0	0	0	0	0	74
<b>Total</b>	<b>505</b>	<b>85</b>	<b>54</b>	<b>108</b>	<b>158</b>	<b>48</b>	<b>126</b>	<b>34</b>	<b>154</b>	<b>578</b>	<b>91</b>	<b>166</b>	<b>0</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2179</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 172

Total Compartment Acres: 2,175

Commercial Harvest - 266  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	65	0	0	0	0	0	0	0	0	65
Lowland Conifers	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	2	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	27	0	0	0	0	0	0	0	0	27
Natural Mixed Pines	0	0	0	0	0	69	0	0	0	69
Northern Hardwood	41	0	0	0	0	0	0	0	0	41
Red Pine	0	0	0	0	0	19	0	0	0	19
White Pine	0	0	0	0	0	40	0	0	0	40
<b>Total</b>	<b>139</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>127</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>266</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	266	0	73	0	0	0	81	0	0	419
Next Step	0	30	30	0	0	30	658	0	0	748
<b>Total</b>	<b>266</b>	<b>30</b>	<b>103</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>739</b>	<b>0</b>	<b>0</b>	<b>1167</b>



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

<b>34</b>	<b>54172034- CrownThin</b>	19.0	42110 - Planted Red Pine	Sawtimber Well	69	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Crown Thin, target 110-120BA  
Specs:  
 - Though red pine DBH's are fairly uniform, use 'Thin from Above' techniques while marking. Focus on removing larger, preferably defect prone stems first while retaining smaller/high-quality stems with good live crown ratios.  
 - Leave/do not mark non-red pine species, unless they hinder equipment mobility  
 - Include Snowmobile and ORV trail protection specs. Black Lake ORV trail passes through sale area.  
 - Walk-through areas present

Next Step  
Treatments:

Acceptable  
Regen:

Other A blocked haul route is present in treatment area. Could be re-opened/used when this sale becomes active.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>41</b>	<b>54172041- CCR</b>	8.1	4130 - Aspen	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut w/Retention  
Specs:  
 - Keep redline out of Stand 42 (MC6) and the 'Too wet' site conditions on west boundary  
 - Capture some of the few red oak within 2 or more smaller retention areas  
 - Mark to leave about 4 larger/elderly beech, aspen, maple and/or species of your choosing. To become future snag material.  
 - Manually mark drum logs (~1 per every 2ac), preferably maple, oak and/or white pine  
 - Use brush pile spec, focus piles near adjacent lowland  
 - Leave incidental pine, hemlock and any yellow birch

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

Acceptable Moderate or better mixture of aspen, maple, paper birch, oak and conifer.  
Regen:

Other Survey corners needed for north boundary are 'in'.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>44</b>	<b>54172044- CCR</b>	16.5	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	89	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut w/Retention- Expand redline on east boundary into operable areas of Stand 47 (E9)- Capture some of the few red oak within 2 or more smaller retention areas- Mark to leave about 8 larger/elderly beech, aspen, maple and/or species of your choosing. To become future snag material.- Manually mark drum logs (~1 per every 2ac), preferably maple, beech and/or oak- Leave incidental pine, hemlock and any yellow birch

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

Acceptable Moderate or better mixture of aspen, maple, paper birch, oak and conifer.  
Regen:

Other Survey corners needed for north boundary are 'in'.  
Comment:

Site Condition

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
<b>46 54172046-CCR</b>	22.7	4130 - Aspen	Poletimber Well	52	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention  <u>Specs:</u> - Third of stand being treated '26 YOE. As such, feel free to get creative running the south boundary.                      - Expand redline on north boundary into operable areas of Stand 47 (E9). Keep redline out of Stand 42 (MC6) and the 'Too wet' site condition on west boundary.                      - Capture some of the few red oak within 2 or more smaller retention areas                      - Mark to leave about 10 larger/elderly beech, aspen, maple and/or species of your choosing. To become future snag material.                      - Manually mark drum logs (~1 per every 2ac), preferably maple, beech and/or white pine                      - Use brush pile spec, focus piles near adjacent lowland(s)                      - Leave incidental pine, hemlock and any yellow birch</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better mixture of aspen, maple, paper birch, oak and conifer.  <u>Other Comment:</u></p> <p><u>Site Condition</u>                      Proposed Start Date: 10/1 /2025</p>										
<b>47 54172047-CC</b>	1.7	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	91	111-140	Harvest	Clearcut	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Clearcut, no retention (small acreage)  <u>Specs:</u> - Harvest/capture operable western portions of this stand during sale prep in adjacent stands.                      - Use brush pile spec, focus piles near adjacent lowland                      - Leave incidental pine, hemlock and any yellow birch</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better mixture of maple, aspen, paper birch and conifer.  <u>Other Comment:</u> Survey corners needed for north boundary are 'in'.</p> <p><u>Site Condition</u>                      Proposed Start Date: 10/1 /2025</p>										
<b>52 54172052-CrownThin + Gaps</b>	68.6	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	86	111-140	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Crown Thin w/Gaps  <u>Specs:</u> - Natural stand w/variable stocking. Target 90-100BA, acceptable to leave higher residual where heavier stocked.                      - Slope in south already excluded from treatment layer (5E-33). Keep redline at top of this slope.                      - As much as possible, Maintain Species &amp; Size Class Diversity when selecting/releasing crop trees. Example: Do Not 'mark all' aspen, maple, birch, etc. stems prior to selecting pine to mark. Retain the scattered older/relic pine and some larger/wolfy deciduous to serve as den trees/future snags.                      - Create clearcut gaps (~100ft), about 1-gap every 10-acres (~7 total). Focus gaps around areas heavier to deciduous or poorer quality stems. If present, do not cut any yellow birch, hemlock or cedar within gaps.                      - Manually mark drum logs (~1 per every 2ac), preferably maple, oak and/or white pine</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Clearcut Gaps: moderate or better mixture of aspen, maple, paper birch, oak and conifer. Crown Thin areas: no regen goal, just release of selected crop trees.  <u>Other Comment:</u> Include Snowmobile/ORV trail protection specs (Trail 99). Use shortwood, bark slip and oak wilt (no-exception) specs. Walk-through areas present.</p> <p><u>Site Condition</u>                      Proposed Start Date: 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
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<b>60</b>	<b>54172060-CrownThin + Gaps</b>	39.5	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	86	111-140	Harvest	Crown Thinning	42201 - Natural White Pine, Mixed Deciduous	Two-Aged	No
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Prescription Crown Thin w/Gaps  
Specs:  
 - Natural stand w/variable stocking. Target 90-100BA, acceptable to leave higher residual where heavier stocked.  
 - As much as possible, Maintain Species & Size Class Diversity when selecting/releasing crop trees. Example: Do Not 'mark all' aspen, maple, birch, etc. stems prior to selecting pine to mark. Retain the scattered older/relic pine and some larger/wolffy deciduous to serve as den trees/future snag material.  
 - Goshawks and nest observed 3/26/24 (see condition 3B-38). Follow 'Woodland Raptor Guidelines' to exclude/protect nest during prep.  
 - Create clearcut gaps (~100ft), about 1-gap every 10-acres (~4 total). Focus gaps around areas heavier to deciduous or poorer quality stems. If present, do not cut any yellow birch, hemlock or cedar within gaps.  
 - Manually mark drum logs (~1 per every 2ac), preferably maple, oak and/or white pine

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Clearcut Gaps: moderate or better mixture of aspen, maple, paper birch, oak and conifer. Crown Thin areas: no regen goal, just release of selected crop trees.

Other Comment: Include Snowmobile/ORV trail protection specs (Trail 99). Use shortwood, bark slip and oak wilt (no-exception) specs. Walk-through areas present.

Site Condition

Proposed Start Date: 10/1 /2025

<b>65</b>	<b>54172065-CCR</b>	25.0	4130 - Aspen	Poletimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut w/Retention  
Specs:  
 - Capture some of the few red oak within 2 or more smaller retention areas  
 - Expand redline on south boundary into operable areas of Stand 59 (C6)  
 - Mark to leave about 12 larger/elderly beech, aspen, maple and/or species of your choosing. To become future snag material.  
 - Manually mark drum logs (~1 per every 2ac), preferably maple, oak and/or white pine  
 - Use brush pile spec, focus piles along Stand 59 (C6)  
 - Leave incidental pine and hemlock

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate or better mixture of aspen, maple, paper birch and conifer.

Other Comment: At least one legacy size WP present, use legacy tree protection spec (3.4.2). Use Snowmobile/ORV trail protection specs (Trail 99).

Site Condition

Proposed Start Date: 10/1 /2025

<b>68</b>	<b>54172068-CC</b>	9.1	4133 - Aspen, Mixed Pine	Sawtimber Well	60	111-140	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Clearcut, no retention (small acreage)  
Specs:  
 - Mark to leave some mature/wind-firm white/red pine as a current/future seed source. Average residual should not exceed 5BA.  
 - Manually mark drum logs (~1 per every 2ac), preferably maple, oak and/or white pine  
 - Leave incidental hemlock

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate or better mixture of aspen, maple, paper birch and conifer.

Other Comment: Include Snowmobile/ORV trail protection specs (Trail 99)

Site Condition

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
<b>69 54172069-CCR</b>	24.0	4119 - Mixed Northern Hardwoods	Poletimber Well	95	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>- Half of stand being treated '26 YOE. Rx approximates greater aspen component. Excludes area with decent hemlock regen.</li> <li>- Capture some of the few red oak/hemlock within 2 or more smaller retention areas</li> <li>- Mark to leave about 12 larger/elderly beech, aspen, maple and/or species of your choosing. To become future snag material.</li> <li>- Manually mark drum logs (~1 per every 2ac), preferably maple, beech and/or white pine</li> <li>- Leave incidental pine and hemlock</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better mixture of aspen, maple, basswood, oak, paper birch and conifer.</p> <p><u>Other Comment:</u> At least one legacy size WP present, use legacy tree protection spec (3.4.2). Use Snowmobile/ORV trail protection specs (Trail 99).</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

<b>2 54172002.17_Cut</b>	4.9	6124 - Lowland Spruce-Fir	Poletimber Well	91	81-110	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut. TREAT CONCURRENT WITH Stand 13.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>- Do not cut sub-merchantable spruce</li> <li>- No retention required to maximize regeneration</li> <li>- Require producer to lop and scatter spruce tops throughout the stand (as a seed source)</li> <li>- Conduct harvest during frozen winter (preferably Dec.15th - Mar.1st) or extremely dry summer months</li> <li>- Consider making this sale a 4-year contract</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Natural regen survey at 5-years and/or during 2024 inventory cycle. Natural regen goal is primarily black spruce but a mixture of spruce, pine, tamarack, cedar, soft maple, and aspen is acceptable.</p> <p><u>Other Comment:</u> Hauling operations will be accomplished using Snowmobile Trail 99. Use current, standard trail specifications for safety and infrastructure protection. Old next step comments: Natural regen survey at 5-years and/or during 2024 inventory cycle. Natural regen goal is primarily black spruce but a mixture of spruce, pine, tamarack, cedar, soft maple, and aspen is acceptable.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										
<b>6 54172006-Monitor</b>	29.9	3102 - Grass	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> RP regen check at year one.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Site Prep; Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen is a well stocked planted red pine stand.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
13	54172013.16_ Cut	26.7	6122 - Black Spruce	Poletimber Well	101	141-170	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with Reserves. Partial treatment of Stand 13. TREAT CONCURRENT WITH Stand 2.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> <li>- Do not cut sub-merchantable spruce</li> <li>- Use 10-12% retention to create 5-7 Black Spruce seed source pockets. This roughly equates to half-acre size pockets. Orient these to maximize prevailing westerly winds and Black Spruce seed dispersal.</li> <li>- Include some Xlog red pine near Stand 6 within retention</li> <li>- Require producer to lop and scatter spruce tops throughout the stand (as a seed source)</li> <li>- Do not cut the limited red maple and aspen. The intent being to limit competition that black spruce may face after seeding in.</li> <li>- Harvest during frozen winter (preferably Dec. 15th - Mar. 1st) or extremely dry summer months</li> <li>- Consider making this sale a 4-year contract</li> </ul> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Natural regen survey at 5-years and/or during 2024 inventory cycle. Natural regen goal is primarily black spruce but a mixture of spruce, pine, tamarack, cedar, soft maple, and aspen is acceptable.</p> <p><u>Other Comment:</u> Hauling operations will be accomplished using Snowmobile Trail 99. Use current, standard trail specifications for safety and infrastructure protection. Old next step comments: Natural regen survey at 5-years and/or during 2024 inventory cycle. Natural regen goal is primarily black spruce but a mixture of spruce, pine, tamarack, soft maple, and aspen is acceptable.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>											
81	54172081- Monitor	50.6	3103 - Rubus-Fern	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> RP regen survey at year one.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; ; Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen is a well stocked stand of planted red pine with pockets of retention oak.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
84	54172084- Plant	73.0	3103 - Rubus-Fern	Nonstocked	0	Unspecified	Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Plant RP.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen is a well stocked stand of planted red pine with pockets of retention oak.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

Total Treatment 419.3  
Acreage Proposed:



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
John St. Pierre : Examiner

Compartment: 172  
Year of Entry: 2026



### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions											
		With Condition				5B	5C	2G	2H	3A	3B	3J	3K	5E			
376	317	47		13	Aspen		47	2									11
181	23	0		157	Bog							0		157			
157	0	4		153	Cedar		4	153									
203	194	0		9	Herbaceous Openland												9
20	20	0		0	Low-Density Trees												
2	2	0		0	Lowland Aspen/Balsam Poplar												
82	21	0		61	Lowland Conifers			43		16							2
24	2	0		23	Lowland Deciduous			23									
9	9	0		0	Lowland Mixed Forest												
95	75	0		19	Lowland Shrub			19	0								
66	39	24		3	Lowland Spruce/Fir		24										3
106	17	88		2	Mixed Upland Deciduous	41	46					2					0
123	103	0		21	Natural Mixed Pines			1	2	10							8
111	93	18		0	Northern Hardwood		18										
438	71	342		24	Red Pine		342			6							19
4	0	0		4	Tamarack			4									
4	0	0		4	Upland Conifers				4								
96	96	0		0	Upland Mixed Forest												
6	6	0		0	Water												
73	72	0		0	White Pine						0						
2,175	1,159	523		493	Total Forested Acres	41	482	245	5	32	0	2	157				51
	53%	24%		23%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
The west ~1/2 of this black spruce stand (Stand 13) is being treated. Regeneration of the harvested portion will be surveyed before any further treatment is proposed within this stand.							

## Report 4 – Site Conditions

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2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too wet for conventional timber harvest equipment.							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural red pine thinned in the late 90's. Average basal area is currently too low for a crown thinning.							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too wet to support conventional harvest equipment. Lower quality stems and limited merchantability too.							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Three-part polygon stand that were formally part of Stand 6. These are now serving as long-term retention for treatment that occurred in Stand 6.							
6	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	151	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Linsey Muskeg ecological reference area (ERA). The majority of this site condition captures the formal ERA boundary for the muskeg/scrub bog. This ERA extends into Stand 30, ATLC170. Turn on 'reference polygons' to see exact boundary or consult 'Conservation Area Viewer' (Portal).							
7	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A unique lowland natural pine site featuring red/white pine and black spruce. Unlikely that if a treatment took place that the species present would regenerate back to present composition.							

## Report 4 – Site Conditions

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8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention created for the final harvest and replant portion of Stand 51 (now Stand 81). This retention can/could further count toward area retention when/if the remainder of Stand 51 is final harvested.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Seasonally flooded areas that interface with the large bog complex. Lowland shrubs prevalent, mixing with tree species.							
11	<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>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This Stand (47) becomes increasingly wet as you move east. Too wet to support conventional harvest equipment.							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	191	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 'Too wet' site-condition that covers a variety of stands. The majority of the ground covered by this condition is too wet/sensitive soils to support conventional harvest equipment.							

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14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island and boundary excluded retention for the timber sale that occurred within Stand 84.							
15	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A group of small upland islands dominated by natural red pine. Conserving these small islands is more practical than trying to harvest.							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A portion of this Stand (46) has been prescribed for harvest in '26 YOE. The intent is to stagger aspen age classes within this area of Compartment 172. Consider harvesting the remainder of Stand 46 during '36 YOE.							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too wet to support conventional harvest equipment. Lower quality stems and limited merchantability too.							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term Retention/black spruce seed source pockets established for the timber sale occurring within Stand 13. Also marked out five (5) sub-half acre yellow (paint) leave-tree pockets for seed source.							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term Retention established for the timber sale occurring within Stand 29.							

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20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Crown thinned in 2018. Age of stand is causing it to meet criteria.							
22	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> One 5C 'Delay' site condition applied over Stands 50 & 87. Stand 87 is smaller diameter, younger stand of very slow growing mixed deciduous. Stand 50 is a narrow/forested stand between Alpena State Rd and Linsey Muskeg ERA complex. Preferable to retain both stands and allow them to act as a filter strip between road and bog.							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Upland (w/low) islands that extend into Linsey Muskeg/Bog ERA. Western interfaces with 'mainland' are quite wet and would not support the weight of conventional harvest equipment.							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boundary excluded retention. Established as such when Stand 71 was prepped for harvest. Prepped by Coy.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
John St. Pierre : Examiner

Compartment: 172  
Year of Entry: 2026



26	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This long/narrow Stand (42) is serving as a seasonal filter strip between the Linsey Muskeg/Bog ERA and adjacent upland stands to the east. Allow stand to continue its filtering function(s) for the foreseeable future.							
27	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	194	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stands 12 and 36 most recently crown-thinned in '18. Age of stands is causing them to meet criteria.							
28	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Black Lake Forest Marsh ecological reference area (ERA). This site condition captures an intermittent wetland that was most recently surveyed by MNFI staff on 6/26/06 and 6/19/23. Turn on 'reference polygon' layer to see exact ERA boundary or consult the Conservation Area Viewer (Portal). Department/MNFI management guidance for the 'Black Lake Forest Marsh' ERA: "Follow BMP Riparian Zone Management (RMZ) guidelines related to lake, stream, pond or open water wetlands, which require a minimum zone width of 100 feet. Proposed activity including timber management within RMZs adjacent to ERAs should be evaluated on a case-by-case basis and are/may be acceptable where there is minimal risk of soil disturbance and sedimentation, and minimal risk of negatively impacting ERA quality."							
29	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	86	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stands 27 and 51 most recently crown-thinned in '18. Age of stands is causing them to meet criteria.							
30	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Department/MNFI management guidance for the portion of this stand that borders the 'Black Lake Forest Marsh' ERA: "Follow BMP Riparian Zone Management (RMZ) guidelines related to lake, stream, pond or open water wetlands, which require a minimum zone width of 100 feet. Proposed activity including timber management within RMZs adjacent to ERAs should be evaluated on a case-by-case basis and are/may be acceptable where there is minimal risk of soil disturbance and sedimentation, and minimal risk of negatively impacting ERA quality."							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
John St. Pierre : Examiner

Compartment: 172  
Year of Entry: 2026



31	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	42	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand 58 has a very strong component of regenerating hemlock, that has recruited above browse height. A treatment in this stand would likely damage a large portion of this hemlock.							
32	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boundary excluded retention for Stand 31.							
33	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This 5E L.T. retention captures a south-facing, down-slope portion of Stand 52. The slope bottoms out at lowland (C6) Stand 59. Though not excessively steep, the slope and 'bottom' could potentially be damaged/rutted by conventional harvest equipment. Exclude this area from proposed/future harvest operations.							
34	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Portion of Stand 69 not proposed for treatment during '26 YOE. This portion of the stand has a stronger dominance of smaller diameter northern hardwood species and sap through xlog hemlock. Also, has less of an aspen component than the prescribed ~western 1/2.							
35	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Consider treating this Stand (74) during '36 YOE. See draft treatment comments for Rx considerations.							
36	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Available (5C) portion of Stand 65, located east of Orchard Beach Rd. Recommend treating this area with Stand 33, ATLC171 when/if harvested in the future.							

# Report 4 – Site Conditions

Atlanta Mgt. Unit  
John St. Pierre : Examiner

Compartment: 172  
Year of Entry: 2026



38	Unavailable	3B: Threatened, endangered, and special concern species	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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																																																											
<b>1</b>	6120 - Lowland Cedar	Poletimber Well	8.8	105	111-140	N/A	Quite wet, mainly NWC dominant. Surrounded by stands with similar lowland covertypes.																																																											
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<b>2</b>	6124 - Lowland Spruce-Fir	Poletimber Well	5.0	91	81-110	N/A	Heavier to pole size black/white spruce within the eastern half of stand. Eastern half also has higher/drier areas. Log/XL Log size red pine from Stand 6 sprinkled into the eastern half too. The western portion is a more or less a transition zone before getting into nearly pure cedar (Stand 1). Western half has more of a conifer/deciduous mixture including spruce, cedar, balsam fir, red maple, paper birch, etc. This smaller acreage stand was split out of Stand 1 during '14 inventory.																																																											
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<b>3</b>	6112 - Lowland Aspen	Sapling Well	2.3	26	1-50	N/A	Clearcut pocket that I believe was cut when Stand 6 was treated in 98-99' (thin + species removal). Stand sits on transitional ground, low w/up scenario. Regeneration is mainly sapling size quaking aspen, red maple, and paper birch. Lesser components of red pine, black spruce, and red oak scattered throughout. A few remaining overstory red pine within the stand. Some tag alder present.																																																											
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<b>4</b>	6124 - Lowland Spruce-Fir	Poletimber Well	4.2	74	111-140	N/A	This stand borders (formally natural RP) Stand 6 to the east, and lowland conifer/deciduous Stand 7 to the west. A heavy component of white pine is found within. White pine is a mix of log/pole/XL log. Pole size black and white spruce are the dominant species. A limited component of log size red pine is present throughout as well.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
<b>5</b>	4130 - Aspen	Sapling Well	34.9	16	Immature	N/A	Harvested '07-08, goal was to "regenerate paper birch". Red oak saps heavily browsed during '16 YOE, some now managing to out-grow that pressure. Scattered log/pole RO residuals throughout. Though minor, a few more residual pole/log RP/JP present in NE. Wildfire briefly snuck into NE portion of this stand in late 00's. Stand 9 previously part of this stand, split out during '26 YOE (Std.9 is seasonally wet). Expect additional pine/conifer to establish as this stand matures. Black Lake ORV Trail runs through this stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	2	Sapling	3	
								Red Oak	10	Sapling/Pole/Log	2	
								White Pine	4	Sapling/Pole/Log	3	
								Red Pine	5	Pole/Sap/Log	7	
								Red Maple	15	Sapling	2	
								Balsam Fir	4	Sapling	3	
								Bigtooth Aspen	50	Sapling	3	16
								Quaking Aspen	10	Sapling	2	
Sub-Canopy Species	Density	Avg. Height	Size									
Beech	Low	5 - 10 feet	Sapling									
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub									
<b>6</b>	3102 - Grass	Nonstocked	30.2	0	Unspecified	4211 - Planted Red Pine	<p>Kubitskey, '23: FTP C54-1107. Release spraying completed 9/20/2023. This stand has a planted Red Pine Objective but may have sufficient natural pine regen. Current treatment is an artificial regen survey (Year 1); this stand will be surveyed like a planted stand.</p> <p>JSP, '23-24: Did not conduct a formal regen survey w/plots calculating seed/sap TPA. Formal survey (Year 1) will occur summer/fall '24, 1yr after release spray. However, did perform a 'walk-through' of this stand fall '23. Impression: RP seed/sap stocking is impressive though not always consistent throughout. Release spray was already impacting deciduous competition. Stand formally composed of natural RP w/lesser components of WP/RO. Thinned and species removal in '98-99 greatly increased the amount of deciduous comp prior to final harvest in 11/2017. Harvested under contract 'Euripides (you-rippa-deez) Pants w/Spruce&amp;Pine' (sale map attached above). Had my pants torn to shreds setting up that sale... Stands 2/13 also part of sale, producer turned sale in/didn't harvest those other 2-units. The partially boggy-like characteristics of this stand (and surrounding stands/area) seems to allow decent RP regen chances. Producer never returned to chip large pile of pulp/top-wood following harvest ops. Pile still present at south end of stand, against Trail 99.</p>					
<b>7</b>	6229 - Mixed lowland shrub	Nonstocked	5.2		Unspecified	No	Nearing the 25% forested threshold in several locations. Other locations are strictly non-forested with lowland shrubs. Seasonally intermittent water flow/drainage corridor. Red maple saplings most common tree species with some black spruce, balsam fir, and tamarack scattered within. Tag alder and lowland shrubs, 5-15ft tall, heavily populates this corridor. Of note, an old railroad grade runs E/W through very north-end of this stand (Stands 13/86 too).					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																							
8	42210 - Natural Red Pine	Sawtimber Well	36.5	88	111-140	N/A	Natural, likely fire origin red pine (burn scar stumps present). West/SW portion of stand mingles with boggy/seasonally wet areas of Stand 10 (V0). Water table likely very close to surface in west. RP a bit more stunted/shorter and some blowdown in west. East ~1/2 seems to enjoy better growing conditions/is on higher ground, higher stocking too. Dense blueberry/some leatherleaf on east boundary, against Stand 16 (V0). RP crown thin/species removal in '98-99 (along w/Stand 6). Dense pockets of deciduous saps now common in areas. BA swings= 90,110,80,130,130,120,160,170,140,140 (127avg)																																																																																							
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9	4130 - Aspen	Sapling Well	5.0	16	Immature	N/A	One stand, two ages/treatment histories. South of Trail 99 was cut '98-99, when RP Stands 6/8 were thinned + species removal. North of Trail 99 was cut '07-08, along with A3 Stand 5. This stand is located atop seasonally wet/low ground and with obvious pit/mounds. North of Trail 99 has scattered depressions populated with bog type species (leatherleaf, nannyberry, MI Holly and others). DBH much smaller too (because it's younger). Diameters larger south of Trail 99, less 'boggy' but quite pit/moundy, pole sizes emerging and more residual RP present.																																																																																							
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10	6225 - Bog	Nonstocked	8.1		Unspecified	No	Composed of four (4) separate polygons, the main theme is seasonal inundation/drainage with bog/treed bog characteristics. Leatherleaf, lab tea, nannyberry, low bush blueberry, MI Holly, ~some tag, black spruce, red pine, jack pine and white pine are all common dependent on polygon. Non-forested for the most part, though more 'treed' along Trail 99 (because it's higher ground). Trail 99 usually covered in standing water in this area late winter/early spring. Bog characteristics generally extend 10-30ft into adjacent/surrounding stands.																																																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>11</b>	4311 - Pine, Aspen Mix	Poletimber Medium	19.0	27	51-80	N/A	Harvested '97, along with Stands 14/75. Patchy stocking throughout, some non-forested areas here/there. Then areas of 75-100% closure. Pole sizes starting to dominate, though saps still common. The patchy stocking has allowed many stems to on diameter growth faster. Pockets of BTA clones make up the majority of the canopy. Natural pole/sap RP has a strong presence. Some RP is 10-15 years older than the aspen. JP/WP scattered throughout. The northwest sliver of the stand experienced wildfire (Mid-00's, crossed over from Stand 34/C169).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		6	Sapling	3		Juniper		Low	< 5 feet	Tall Shrub	
Jack Pine		6	Pole/Sapling	6		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub	
Red Maple		3	Sapling	3							
Quaking Aspen		5	Pole/Sapling	5							
White Pine		8	Pole/Sap/Log	6							
Bigtooth Aspen		40	Pole/Sapling	5	27						
Red Oak		2	Sapling/Pole	4							
Red Pine		30	Pole/Sap/Log	7	48						

<b>12</b>	42210 - Natural Red Pine	Sawtimber Well	81.6	78	81-110	N/A	Most recently thinned in '18 (sale map attached), 'Trail 99 Red Pine'. Stand marked by contractor, targeting ~90-100BA residual. In '14 I coded this stand as 'planted' and it was part of R9 Stand 36. After re-visiting records/imagery, I'm quite certain this stand is natural ('14 was my 1st round of inventory). Removal harvest 96-98' cut all species except RP, WP, and RO. Areas are now flush with saps as a result, especially along the border of Stand 39. BTA, RM, and RO saps dominate. Row thin appears to of occurred yet no record found. Core samples suggest late 80's - early 90's. Residual stems appeared healthy in '23, though can-closure/BA is low in a few areas of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		2	Log/Pole/XLog	15		White Pine		Low	5 - 10 feet	Sapling	
White Pine		6	Log/Pole/XLog	14		Red Pine		Low	5 - 10 feet	Sapling	
Red Pine		90	Log/Pole/XLog	14	78	Red Oak		Medium	5 - 10 feet	Sapling	
Jack Pine		2	Pole/Sapling	6		Quaking Aspen		Low	>20 feet	Sapling	
						Bigtooth Aspen		Medium	>20 feet	Sapling	
						Red Maple		Medium	10 - 20 feet	Sapling	
						Ironwood		Low	10 - 20 feet	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
						Black Cherry		Low	5 - 10 feet	Sapling	
						Sugar Maple		Low	Variable	Sapling	
						Jack Pine		Low	5 - 10 feet	Sapling	

<b>13</b>	6122 - Black Spruce	Poletimber Well	54.2	101	141-170	N/A	'24 Sale History Note: Set-up/sold as 'Euripides Pants Spruce/Pine' in '16 (map attached). Only Stand 6 was cut, then sale was turned in. Advertised/sold again 10/'23 (map attached).  '14/'24 Stand Comments: Three-quarters of this stand is composed of nearly uniform (age and species) pole size black spruce with a small but strong component of natural red pine as you near Stands 6&86 (86 is a 3-piece polygon). Areas near Stands 7/17 are much more 'lowland' in appearance. Sphagnum mosses blanket the forest floor in these areas. Pole BlkSprc has a strong presence beneath areas with an RP presence (except the Stand 86 island). A band of lowland deciduous/conifer runs along Stand 17's northern boundary. East of non-forested Stand 17 reverts back to mainly black spruce. Of note, an old railroad grade runs E/W through ~middle of stand (Stands 17/86 too).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		10	Log/XLog	15	87	Red Maple		Low	10 - 20 feet	Sapling	
Red Maple		3	Pole/Log	8		Black Spruce		Medium	Variable	Sapling	
Jack Pine		2	Log/Pole	10		Balsam Fir		Low	Variable	Sapling	
Paper Birch		2	Pole/Log	8							
Quaking Aspen		2	Log/Pole	11							
Balsam Fir		2	Sapling/Pole	4							
Black Spruce		70	Pole/Log/Sap	8	101						
White Spruce		2	Log/Pole	10							
White Pine		7	Log/Pole/XLog	14							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>14</b>	4133 - Aspen, Mixed Pine	Sapling Well	27.1	27	1-50	N/A	Variable/patchy stocking in some areas. Clearcut (along with Stands 11/75) in 1997. A decent amount of pine has established and/or was protected during '97 cut. Black Lake ORV Trail is the eastern boundary of this stand. Aspen and some pine are/have transitioned to pole sizes.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		52	Sapling/Pole		4	27		Beech	Low	5 - 10 feet	Sapling
White Pine		8	Sapling/Pole		4						
Red Pine		15	Sapling/Pole		4						
Quaking Aspen		11	Sapling/Pole		4						
Red Oak		4	Sapling		3						
Red Maple		2	Sapling		3						
Black Cherry		2	Sapling		3						
Sugar Maple		2	Sapling		2						
Ironwood		2	Sapling		1						
Jack Pine		2	Sapling/Pole		4						
<b>15</b>	6122 - Black Spruce	Sapling Medium	9.8	48	1-50	N/A	Lowland stand dominated by sapling size black spruce. Pockets and scattered pole size black spruce are found within this stand. Aged some of the pole size spruce/log WP with a ~1939 year of origin (85yrs old in '24). Limited representation of log/pole size white pine present and a small amount of pole tamarack. Trace amounts of sapling size red pine observed.				
<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		88	Sapling/Pole		4	48		White Pine	Low	5 - 10 feet	Sapling
Tamarack		2	Pole		8			Black Spruce	Medium	Variable	Sapling
White Pine		10	Log/Pole		12	85					
<b>16</b>	6225 - Bog	Nonstocked	11.6		Unspecified	No	Small bog lined with log size RP and some WP. Seasonally holds water. Very heavy to common bog type species; leatherleaf, lab tea, some woody shrubs/conifer saps and dense lowbush blueberry along perimeter locations that extend into adjacent stands.				
<b>17</b>	6229 - Mixed lowland shrub	Nonstocked	19.7		Unspecified	No	Nearing the 25% forested threshold in several locations. Other locations are strictly non-forested with lowland shrubs. Seasonally intermittent water flow/drainage corridor. Red maple saplings most common tree species with some black spruce, balsam fir, and tamarack scattered within. Tag alder and lowland shrubs, 5-15ft tall, heavily populates this corridor. Of note, an old railroad grade runs E/W through very north-end of this stand (Stands 13/86 too).				
<b>18</b>	6122 - Black Spruce	Poletimber Well	2.1	59	81-110	N/A	Small stand mainly dominated by pole/sap, ~sap/pole black spruce and strong presence of log/pole/XL log white pine. Black spruce is about half the age as those found in Stand 13. Scattered log/XL log RP too. Considered merging with Stand 13 and leaving as retention for treatment in Stand 13. Decided to leave it as its own 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>
Red Maple		2	Pole		7			Black Spruce	Medium	Variable	Sapling
White Pine		28	Log/Pole/XLog		14	74		Balsam Fir	Low	Variable	Sapling
Black Spruce		65	Pole/Sapling		5	59					
Red Pine		5	Log/XLog		15						
<b>19</b>	6225 - Bog	Nonstocked	3.4		Unspecified	No	Very similar to neighbor, Stand 16, to the north (but smaller). Lined with log size RP and some WP. Seasonally holds water. Very heavy to common bog type species; leatherleaf, lab tea, some woody shrubs/conifer saps and dense lowbush blueberry along perimeter locations that extend into adjacent stands.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
<b>20</b>	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	11.7	50	51-80	N/A	Located along an intermittent/seasonal drainage that begins at the small bog Stand 19 and then extends southwest. Drainage looks like a ridgeline on some imagery. Seasonally inundated, at least following snow melt. Presence of JP/RP makes it reasonable to believe this stand dries out further into the summer months. Recruitment of natural pine into the canopy is occurring on this site.																																																																
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<b>21</b>	6127 - Lowland Pine	Poletimber Well	16.3	78	141-170	N/A	A natural stand of red and white pine with black spruce mixed in throughout. Red pine is more prevalent in the eastern 2/3's of the stand while white pine dominates the western 1/3. Black spruce is found at varying densities throughout and ranges from pole to sapling size. A bit challenging to determine if this stand is lowland w/up or upland w/low. It's definitely intermittently/seasonally wet. Southern portions of lowland Stand 20 could be merged into this stand. Seasonal variability appears to join and separate the two. A unique stand to visit.																																																																
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<b>22</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	7.7	47	51-80	N/A	Wet/saturated stand with variable diameters and species mixture. Blash ash is trying to re-establish but having a difficult time given presence of EAB.																																																																
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<b>23</b>	3303 - Mixed Low Density Trees	Nonstocked	1.5		Unspecified	No	Low density mix of pole/sapling size red pine, white pine, and big tooth aspen.																																																																





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>24</b>	4133 - Aspen, Mixed Pine	Poletimber Well	57.3	37	51-80	N/A	<p>Very similar in species composition to Stand 14 but 10-years older. This stand was clearcut in 1986-87'. Sapling sizes have given way to generally pole sized stems (at least aspen/some pine/oak). Natural RP/WP have a strong presence. Canopy closure is fairly consistent at 75-100%. Northern hardwood species are primarily found along/near the eastern boundary. Black Lake ORV Trail makes a brief appearance along the southern boundary. A few locations on east (north of Trail 99) may briefly become wet depending on the season.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		5	Sapling/Pole	4		Black Cherry		Low	10 - 20 feet	Sapling	
Quaking Aspen		18	Pole/Sapling	6		Ironwood		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		48	Pole/Sapling	6	37	Beech		Low	5 - 10 feet	Sapling	
White Pine		8	Pole/Sapling	5							
Jack Pine		2	Pole/Sapling	5							
Sugar Maple		2	Sapling	2							
Red Maple		2	Sapling/Pole	3							
Red Pine		15	Pole/Sapling	5							
<b>25</b>	42210 - Natural Red Pine	Sawtimber Well	25.9	95	111-140	N/A	<p>This natural red pine (25) was previously part of final harvest/replant Stand 84. This stand had much higher BA than Stand 84, averaged 182BA prior to '18 thin. Currently averages 125BA following recent thin (Rx was to target 130BA). Transitional ground along western boundary with Stands 20/21. Crown-thinned in early '18 under contract 'Trail 99 Red Pine', sale map attached above. Some damage to residual(s) as a result from harvest. Black Lake ORV Trail present within stand.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		8	Log/Pole/XLog	12	86	Bigtooth Aspen		Low	10 - 20 feet	Sapling	
Red Maple		2	Pole/Sapling	6		White Spruce		Low	Variable	Sapling	
Black Spruce		3	Pole/Sapling	6		Black Spruce		Low	Variable	Sapling	
Jack Pine		2	Pole	8		White Pine		Low	10 - 20 feet	Sapling	
Red Pine		85	Log/Pole	14	95	Nannyberry		Low	< 5 feet	Tall Shrub	
						Red Maple		Low	10 - 20 feet	Sapling	
						Red Oak		Low	10 - 20 feet	Sapling	
						Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	
<b>26</b>	6229 - Mixed lowland shrub	Nonstocked	5.3		Unspecified	No	<p>Nearing the 25% forested threshold in several locations. Other locations are strictly non-forested with lowland shrubs. Seasonally intermittent water flow/drainage corridor. Red maple saplings most common tree species with some black spruce, balsam fir, and tamarack scattered within. Tag alder and lowland shrubs, 5-15ft tall, heavily populates this corridor.</p>				
<b>27</b>	42210 - Natural Red Pine	Sawtimber Well	15.8	85	81-110	N/A	<p>Crown-thinned in '18, 'Flaperon Failure Red Pine' (map attached above). Marked/cruised by contractor, targeted BA was 90-100. Stand previously belonged to Stand 51. Split out in '24 as I'm quite certain this stand is natural. Canopy WP/RO present, burn scare stumps too. Species removal 96-98'. All species cut except RP/WP/RO. Sap layer dense in areas as a result of the removal cut. Unsure of treatment history prior to late 90's harvest. RP is self-pruning well in most areas.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		88	Log/Pole/XLog	14	85	Bigtooth Aspen		Medium	10 - 20 feet	Sapling	
Red Oak		3	Log/Pole/XLog	15		Sugar Maple		Low	10 - 20 feet	Sapling	
White Pine		9	Log/Pole/XLog	14		Jack Pine		Low	Variable	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
						Black Cherry		Low	Variable	Sapling	
						Red Oak		Medium	5 - 10 feet	Sapling	
						Hemlock		Trace	5 - 10 feet	Sapling	
						Red Maple		Medium	10 - 20 feet	Sapling	
						Ironwood		Low	10 - 20 feet	Sapling	
						White Pine		Low	Variable	Sapling	
						Quaking Aspen		Low	10 - 20 feet	Sapling	
						Red Pine		Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>28</b>	42290 - Natural Mixed Pine	Poletimber Medium	15.0	31	51-80	N/A	Dominant size was sap in '14, has now graduated into pole sizes being a bit more dominant. Saps still very common, especially where stocking is higher. Final harvested in '87-88 (along w/Stand 24). Natural red/white pine, jack pine, aspen, and some oak. Brushy/stubby pine and lumpy/clumpy stocking. Quite dense stocking/closed canopy can move quickly to open/non-forested. Some open areas being reclaimed w/saps. Black Lake ORV Trail along west boundary and travels through stand in southwest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	35	Pole/Sapling	6	31	Balsam Fir	Low	10 - 20 feet	Sapling
Jack Pine	25	Pole/Sapling	6		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	4	Sapling/Pole	4		Ironwood	Low	10 - 20 feet	Sapling
Bigtooth Aspen	18	Pole/Sapling	5		Black Cherry	Low	10 - 20 feet	Sapling
White Pine	18	Sapling	4		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
					Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
					Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub

<b>29</b>	4130 - Aspen	Sapling Well	45.6	7	1-50	N/A	PU1, Double Bubble Aspen, 540031601. Ops began about 6/1/18, Tulgestka tree length crew. All cutting/skidding completed mid-June '18. Last wood hauled/landing blocked 7/30/18. Mainly dry during harvest, summer '18 quite dry too. Some scattered WP/RP left per Rx (a few pole red oak too). Residual average of leave trees was 7BA. Quite obvious during regen survey that leave trees are in no way impeding regeneration. Stand is regenerating quite well as of late 2023.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log/Pole/XLog	14	
Red Pine	3	Log/Pole/XLog	14	79
Sugar Maple	3	Sapling	1	
Ironwood	2	Sapling	1	
Red Maple	5	Sapling	1	
Quaking Aspen	2	Sapling	1	
Bigtooth Aspen	75	Sapling	1	7
Red Oak	2	Sapling/Pole	1	
Beech	5	Sapling	1	

<b>30</b>	3303 - Mixed Low Density Trees	Nonstocked	1.4		Unspecified	No	The two southern polygons are beginning to be reclaimed by deciduous and some conifer species. These two ~openings were likely landing locations during '97 harvest in Stand 31.
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<b>31</b>	4130 - Aspen	Sapling Well	34.9	27	1-50	N/A	Clearcut in the early '97 and now aspen dominated with noticeable components of hardwood species. Conifer not uncommon in areas. Some stems are beginning and/or have converted to pole sizes.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	3	Sapling/Pole	3	
White Pine	3	Sapling	2	
Quaking Aspen	10	Sapling/Pole	4	
Red Maple	5	Sapling	2	
Paper Birch	5	Sapling/Pole	3	
Sugar Maple	3	Sapling	2	
Ironwood	3	Sapling	2	
Red Oak	2	Sapling	2	
Balsam Fir	3	Sapling	2	
Bigtooth Aspen	60	Sapling/Pole	4	27
Red Pine	3	Sapling	3	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>32</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	52.1	84	81-110	N/A	JSP, '23: This Stand and 74 were one stand last YOE. This stand has much less oak/aspens and is primarily hard maple dominant. Oak that is present is generally pole size (log/xlog in 74). Imagery doesn't show much difference between the stands. Trace hemlock pole/sap/log observed. Hard maple struggles to put on diameter growth/develop into quality stems in this area of Cheboy Co (cobble below soils). Scattering of other species present. A band on WP runs through ~center of stand (E/W). Some larger BTA there too. BA swings= 80,50,70,70,110,60,90,70,80,40 (72avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		4	Log/Pole	12		Hemlock		Low	>20 feet	Pole	
Beech		4	Pole/Log	9		Hemlock		Trace	10 - 20 feet	Sapling	
Red Oak		8	Pole/Log/Sap	9		Beech		Medium	5 - 10 feet	Sapling	
Bigtooth Aspen		10	Log/Pole/XLog	12	79	Sugar Maple		Medium	>20 feet	Sapling	
White Pine		6	Log/Pole/XLog	15		Red Oak		Low	>20 feet	Sapling	
Sugar Maple		55	Pole/Sap/Log	8	84	Balsam Fir		Low	Variable	Sapling	
Red Pine		1	Pole/Log	8		Ironwood		Medium	10 - 20 feet	Sapling	
Paper Birch		2	Log/Pole	12		Red Maple		Low	10 - 20 feet	Sapling	
Red Maple		10	Pole/Log	8							
<b>33</b>	42200 - Natural White Pine	Sawtimber Well	4.6	90	81-110	N/A		Small stand primarily dominated by larger WP w/RP, BTA, RO and RM mixing in. Portion of stand south of Trail 99 very much looks like it was part of the removal harvest that went through surrounding area(s) in late 90's. Removal did not occur north of Trail 99, this area still holds some larger/mature aspen. Can-closure is on the lower end of 75-100% in areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Bigtooth Aspen		15	Log/Pole/XLog	12		Ironwood			Low	10 - 20 feet	Sapling
Red Pine		12	Log/Pole/XLog	15		White Pine			Low	Variable	Sapling
Balsam Fir		1	Pole/Sapling	8		Red Maple			High	10 - 20 feet	Sapling
Red Maple		4	Pole/Log	8		Juniper			Low	< 5 feet	Tall Shrub
White Pine		64	Log/Pole/XLog	16	90	Red Oak			Medium	10 - 20 feet	Sapling
Red Oak		4	Log/Pole/XLog	10		Sugar Maple			Low	10 - 20 feet	Sapling
						Beech			Low	5 - 10 feet	Sapling
						Paper Birch			Trace	>20 feet	Sapling
						Balsam Fir			Low	Variable	Sapling
						Red Pine			Low	Variable	Sapling
						Bigtooth Aspen			Medium	>20 feet	Sapling
<b>34</b>	42110 - Planted Red Pine	Sawtimber Well	19.0	69	171-200	N/A	Planted in '55 based on available records. Third row thinned by Biewer in 07', removal harvest during '96-98 timeframe (left WP, RP, RO). Deciduous sap layer now quite dense in ~E1/2 as a result of this removal. Fairly nice quality RP stems. A few minor component species listed above, then trace hard maple (pole), RM (pole/log) and PB (pole). BA swings= 270,220,190,170,160,140,120,180,160,200,190,150,220 (182avg)				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		2	XLog/Log	18		White Pine		Low	Variable	Sapling	
Red Oak		2	Log/XLog/Pole	16		Red Pine		Low	Variable	Sapling	
Red Pine		94	Log/Pole	11	69	Ironwood		Low	5 - 10 feet	Sapling	
White Pine		2	Log/Pole/XLog	12	81	Red Maple		Medium	5 - 10 feet	Sapling	
						Balsam Fir		Trace	Variable	Sapling	
						Beech		Medium	5 - 10 feet	Sapling	
						Red Oak		Medium	5 - 10 feet	Sapling	
						Bigtooth Aspen		Low	10 - 20 feet	Sapling	
<b>35</b>	6229 - Mixed lowland shrub	Nonstocked	19.5		Unspecified	No		A clumpy mix of seedling/sapling/pole size black spruce, tamarack, white pine, red pine, and tag alder. Some areas are more dense with conifer, while other areas are dominated by tag alder. Conifer more prevalent as you move into bog. Tag alder more prevalent as you move toward upland. Was able to view first hand from snowmobile.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
<b>36</b>	42110 - Planted Red Pine	Sawtimber Well	111.9	85	81-110	N/A	Crown-thinned in '18, 'Trail99 Red Pine' (map attached above). Marked/cruised by contractor, targeted BA was 90-100. Red pine planted/established in 1939. Quite certain planted 3-rows of RP, then 2-rows JP. Minimal amount of canopy WP/JP/RO present. Burn scare stumps and fallen-out JP observed. Species removal 96-98'. All species cut except RP/WP/RO. So, the 2-rows of JP were cut, giving the stand its very 'linear/row' appearance on older imagery. Some areas are now flush with saplings as a result. Unsure if ever row thinned (no record located). RP is self-pruning well in most areas, a few larger/natural RP present.																																																																																	
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<b>37</b>	3303 - Mixed Low Density Trees	Nonstocked	17.0		Unspecified	No	Harvested '86-87 with adjacent Stand 39. Too many species to individually list above. Essentially, every species present in surrounding Stand 39 is found here. Same/similar variability in size classes, ages, stocking levels, etc. Quite a lot of pine, white pine especially is stubby/shrubby. Lumpy/clumpy stocking, some areas quite dense, others not so much. Could call a poorly stocked pole stand. Beginning to 'fill in/being reclaimed' in many areas with numerous species. Measurable basal area in most areas. Heavily used by hunters.																																																																																	
<b>38</b>	6225 - Bog	Nonstocked	157.4		Unspecified	No	This stand encompasses the majority of the 'Linsey Muskeg' ecological reference area (ERA). ERA details are listed in the 3K site condition. A small portion of the 'Black Lake Forest Marsh ERA' is found in this stand. See 3K-28 for those ERA details. Pockets of seedling/sapling/pole conifer throughout this bog complex. Mainly black spruce with tamarack, white pine, and red pine. Forested portion appeared to be less than 10%, both in the field and on the imagery. should be used.																																																																																	
<b>39</b>	4311 - Pine, Aspen Mix	Poletimber Well	76.9	38	51-80	N/A	In early stage of conversion to more ~consistently pole sized. Many stems still running sap size. Harvested '86-87 (w/Std37), based on available record. Scattered older/larger age class of oak and pine throughout (oak mainly in N/NW, xlog pine/oak not uncommon). Variable density/stocking. Densely forested can quickly become low-stocked. Patchier east of U0 Stand 37. Nearly pure aspen clone (pole) between Alpena St Rd and bog. Stand providing a diverse mixture of sizes, ages, species, stocking, etc. Something for everyone. BA swings= 60,50,50 (53avg)																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>40</b>	42200 - Natural White Pine	Sawtimber Medium	17.8	87	81-110	N/A	Canopy WP/RP with RO mixing in. Some RP could be planted giving adjacent plantation(s). Removal harvest in '97 cut all species except RP, WP, and red oak. Sub-canopy is now a fairly thick sap combo of BTA, RM, and some RO. Other conifer/deciduous saps present at lower densities. A few BTA poles starting to emerge. Variable can-closure, 50-75 in west, higher in center, decreases again in east. BA swings= 100,150,110,50,30,90,130 (94avg)				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		8	Log/Pole/XLog	15		Red Oak		Medium	10 - 20 feet	Sapling	
White Pine		60	Log/Pole/XLog	15	87	Bigtooth Aspen		High	>20 feet	Sapling	
Sugar Maple		2	Pole/Log	8		White Pine		Low	10 - 20 feet	Sapling	
Red Pine		30	Log/Pole/XLog	14	84	Jack Pine		Low	10 - 20 feet	Sapling	
						Sugar Maple		Low	10 - 20 feet	Sapling	
						Ironwood		Low	10 - 20 feet	Sapling	
						Red Pine		Low	Variable	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
						Red Maple		High	10 - 20 feet	Sapling	
<b>41</b>	4130 - Aspen	Sawtimber Well	9.6	83	81-110	N/A		Small aspen (BTA) stand located between low-quality hardwood Stand 44 and conifer band Stand 42. Some overstory hardwood species mixed in along the eastern boundary. Fairly prominent red oak sap layer throughout. The western boundary runs into a wall of WP/RP saps/poles. Three seasonally wet drainages 'dip' into western areas of this stand. These hold snowmelt and/or overflow water from the large bog (all were dry in Nov '23). BA swings= 40,110,110 (86avg).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		2	Log/Pole	12		White Pine			Medium	10 - 20 feet	Sapling
Red Oak		2	Pole/Sap/Log	8		Red Pine			Low	Variable	Sapling
Sugar Maple		6	Pole/Sap/Log	7		Red Maple			Medium	10 - 20 feet	Sapling
Red Maple		16	Pole/Sap/Log	9	79	Sugar Maple			Medium	>20 feet	Sapling
Bigtooth Aspen		70	Log/XLog/Pole	14	83	Ironwood			Medium	10 - 20 feet	Sapling
Paper Birch		2	Pole/Log	9		Beech			Medium	5 - 10 feet	Sapling
White Pine		2	Pole/Log	9		Red Oak			Medium	10 - 20 feet	Sapling
						Balsam Fir			Low	Variable	Sapling
						Black Spruce			Low	Variable	Sapling
<b>42</b>	42290 - Natural Mixed Pine	Poletimber Well	12.6	49	51-80	N/A	A band of conifer between the large bog and Stands 41/46. Natural RP is the most prevalent species and can be found in seedling through log sizes. Scattered log and sapling red oak present. Pole/sap tends to be most common size class(es). Black spruce and white pine are mixed in throughout. Aspen from stands 41 & 46 sneak into the eastern edges of this thin stand. The southernmost portion is 2-acres of mainly log size RP. This area was split/merged into Stand 12, ATLC173.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		40	Pole/Log	8	49	Black Spruce		Low	Variable	Sapling	
Jack Pine		5	Pole/Sapling	6		White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		12	Log/Pole	12		Red Oak		Low	10 - 20 feet	Sapling	
Red Maple		2	Sapling/Pole	4		Red Maple		Low	10 - 20 feet	Sapling	
Black Spruce		25	Sapling/Pole	4		Red Pine		Medium	10 - 20 feet	Sapling	
White Pine		16	Pole/Sapling	5							
<b>43</b>	4130 - Aspen	Sapling Well	11.9	7	Immature	N/A	PU2, Double Bubble Aspen, 540031601. Ops began 5/22/18, Tulgestka tree length crew. All operations completed 1st week June '18. Mainly dry during harvest, summer '18 quite dry too. Some scattered xlog WP (and 1-RP) and all hemlock left (per Rx). Stand is regenerating quite well as of late 2023.				
Canopy Species		% Cover	Size Class	DBH	Age						
Sugar Maple		3	Sapling	1							
Red Maple		10	Sapling	1	7						
Bigtooth Aspen		78	Sapling	1	7						
Beech		5	Sapling	1							
White Pine		2	XLog/Log	18							
Hemlock		2	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>44</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	16.5	89	111-140	N/A	A pole/limited log size ~NHD stand featuring a strong component of L/XL BTA. Small/prominent clump of log RP in N.W. near PVT (might be planted?). Maple quality on par for this area, marginal at best. Strong HM/RM sap layer. Scattered large RO present and trace canopy QA. BA swings= 190,70,100,130 (122avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		20	Log/XLog	16	83	White Pine		Low	Variable	Sapling	
Sugar Maple		24	Pole/Sap/Log	7		Ironwood		Medium	10 - 20 feet	Sapling	
Red Oak		5	Log/XLog/Pole	16		Red Maple		Medium	>20 feet	Sapling	
Paper Birch		6	Log/Pole	12		Red Oak		Low	10 - 20 feet	Sapling	
Red Pine		3	Log	14		Balsam Fir		Low	Variable	Sapling	
Red Maple		34	Pole/Log/Sap	9	89	Sugar Maple		High	>20 feet	Sapling	
Beech		8	Log/Pole	12		Paper Birch		Low	>20 feet	Sapling	
						Hemlock		Trace	10 - 20 feet	Sapling	
						Beech		Medium	5 - 10 feet	Sapling	
<b>45</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Well	19.1	27	1-50	N/A		Removal harvest in 97', all species cut except RP, WP and RO. Now a bit going on in this stand. Primarily dominated by sap/pole size JP w/a strong component of sap through log size RP. BTA (some QA) saps well represented in clone pockets throughout. Log/pole (some sap) WP prevalent too. Scarification/whole tree skidding seems to of prepped site for decent JP/RP establishment. Intermediate age class of RP also present (~1980 DOB). Shrubby/stubby pine not uncommon. Overall can-closure averages out to low end of 75-100%.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		20	Sapling/Pole/Log	4	77	Quaking Aspen			Medium	>20 feet	Sapling
White Pine		8	Log/Pole/Sap	12	82						
Red Oak		4	Log/Pole/Sap	12							
Bigtooth Aspen		22	Sapling/Pole	4	27						
Jack Pine		38	Sapling/Pole	3	27						
Red Maple		8	Sapling	2							
<b>46</b>	4130 - Aspen	Poletimber Well	68.1	52	111-140	N/A	Mainly pole size (some log) BTA stand with northern hardwood species mixed in. Based on available cutting records, this stand, and adjacent/operable areas were final harvested '71-73. Aspen poles dominate, yet composition of hardwood species (saps/poles) increases as you move north. Heavy RM sap production in some areas. Scattered log WP/RP present, likely left during '71-73 cut. Trace hemlock (P/L) and RO (P/L). BA swings= 110,110,130,100 (112avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole/Sap/Log	6		Sugar Maple		Medium	>20 feet	Sapling	
Beech		5	Log/Pole	11		Red Oak		Low	10 - 20 feet	Sapling	
Paper Birch		3	Pole/Sapling	5		Beech		Low	5 - 10 feet	Sapling	
White Pine		2	Log/Pole/XLog	16		Balsam Fir		Low	Variable	Sapling	
Sugar Maple		5	Sapling/Pole	3	41	White Pine		Low	10 - 20 feet	Sapling	
Quaking Aspen		6	Pole	8		Ironwood		Low	10 - 20 feet	Sapling	
Red Pine		2	Log/Pole/XLog	16		Red Maple		High	10 - 20 feet	Sapling	
Bigtooth Aspen		62	Pole/Log/Sap	8	52	Striped Maple		Low	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 8.6 91 111-140 N/A

Upland ground in west then transitioning to lowland moving east. Mix of deciduous with limited conifer. Nice pocket of yellow birch saplings present (OFS point created). Fir sap through pole common. A few clumps of northern white cedar present. I called the stand 'pole dominant' last '16 YOE. Changed to log this go round ('26 YOE). East has a few wet lowland shrub/borderline forested pockets. Could merge w/Std39 (ATLC173) to south, a bit more conifer in this stand though. BA swings= 120,120,170 (136avg)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Pole/Log	9		Yellow Birch	Low	>20 feet	Sapling
Bigtooth Aspen	5	Log/XLog/Pole	15		Black Ash	Low	Variable	Sapling
Northern White Cedar	4	Log/Pole	10		Sugar Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	22	Log/XLog/Pole	16		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	16	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Log/Pole	11		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	38	Log/Pole/XLog	11	91				
Yellow Birch	2	Pole/Log	8					
Sugar Maple	4	Pole/Sapling	5					

**48** 429 - Mixed Upland Conifers Sawtimber Medium 3.5 82 81-110 N/A

A unique set of Up w/Low finger ~islands that extend out into the large bog complex. White pine takes the top seat with black spruce, red maple, paper birch, and big tooth aspen as associates.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole/Log	9		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	15	Pole/Log	9		Wintergreen	Low	< 5 feet	Tall Shrub
Black Spruce	10	Sapling/Pole	4		Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
White Pine	55	Log/Pole/XLog	14	82	Black Spruce	Low	< 5 feet	Sapling
Red Maple	10	Pole	7		White Pine	Low	< 5 feet	Sapling

**49** 42210 - Natural Red Pine Sawtimber Well 51.2 76 81-110 N/A

Natural pine with some planted RP sneaking in along east/west edges. Can-closure hovers around ~50% in center of stand and then 75-100% in remainder. Average closure is ~75%. Removal harvest in '97, took place north of Black Lake ORV trail, all species cut except RP, WP, and Oak. Area now was pockets of high dense BTA/RM saps. South of trail still holds areas of mature BTA. Good live crown ratios on most RP. Trace amounts of pole RM, BF, and QA observed. A dense area of advanced JP regen in southwest. BA swings= 100,80,130,90,90,150,40,110 (98avg).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	8	Log/Pole/Sap	14		Bigtooth Aspen	Medium	>20 feet	Sapling
White Pine	16	Log/Pole/XLog	12	84	White Pine	Medium	10 - 20 feet	Sapling
Red Oak	4	Log/XLog/Pole	16		Red Oak	Medium	5 - 10 feet	Sapling
Red Pine	60	Log/Pole/XLog	14	76	Balsam Fir	Low	Variable	Sapling
Jack Pine	12	Pole/Log/Sap	8	43	Jack Pine	Medium	10 - 20 feet	Sapling
					Red Pine	Low	10 - 20 feet	Sapling
					Juniper	Low	< 5 feet	Tall Shrub
					Red Maple	Medium	10 - 20 feet	Sapling
					Beech	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**50** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 13.7 85 81-110 N/A

Mixed stand featuring RP, WP, RO, BTA, RM, and HM as the dominant species. Pine, oak, and BTA are primarily log/pole/XL log size. This stand has a two-aged appearance in areas, northern hardwood species make up the smaller size classes and sub-can. Moderate sloping towards the bog occurs in the southern portion of the stand. Xlog RP, WP, and red oak scattered throughout. Oak is more prevalent south of Lake 16 Rd. Also, a vein of pine extends north of and just south of the Lake 16 Rd.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	2	Pole/Sapling	6	
Red Oak	14	Log/Pole/XLog	16	
Paper Birch	2	Log/Pole	10	
Bigtooth Aspen	25	Log/Pole/XLog	15	85
White Pine	14	Log/Pole/XLog	15	
Red Maple	12	Pole/Sap/Log	9	62
Hemlock	1	Pole/Log	8	
Basswood	2	Pole/Log	9	
Sugar Maple	10	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	10 - 20 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Red Pine	Low	Variable	Sapling
Sugar Maple	Low	>20 feet	Sapling

**51** 42110 - Planted Red Pine Sawtimber Well 70.5 85 81-110 N/A

Crown-thinned in '18, 'Flaperon Failure Red Pine' (map attached above). Marked/cruised by contractor, targeted BA was 90-100. Red pine planted/established in 1939. Quite certain planted 3-rows of RP, then 2-rows JP. Minimal amount of canopy WP/RO present. Burn scare stumps and fallen-out JP observed. Species removal 96-98'. All species cut except RP/WP/RO. So, the 2-rows of JP were cut, giving the stand its very 'linear/row' appearance on older imagery. Sap layer is quite 'lite, even after the removal cut. This was not the same scenario for Stand 81, which used to belong to this stand. This was one reason it was decided to restart/plant Stand 81 (had a very dense sap layer). Unsure if ever row thinned (no record located). RP is self-pruning well in most areas, a few larger/natural RP present.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	92	Log/Pole/XLog	14	85
Red Oak	3	Log/Pole/XLog	15	
White Pine	5	Log/Pole/XLog	12	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Black Cherry	Low	Variable	Sapling
Red Oak	Medium	5 - 10 feet	Sapling
Hemlock	Trace	5 - 10 feet	Sapling
Sugar Maple	Low	10 - 20 feet	Sapling
Jack Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>52</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	76.6	86	111-140	N/A	Broad mixture of species, natural RP/WP being most prominent. Then a fair amount of BTA, RO and RM throughout. Trace canopy HM, BkSprc, Hem, and NWC present. A slight but obvious strip of higher ground runs east/west through ~center of stand. The strip tends to be more deciduous dominant, including a ~4-acre pocket heavier to RO/BTA/Maple near south boundary of Stand 36 (R9). A ridge line extends along the southern boundary before meeting up with lowland cedar Stand 59. Ridgeline drops down into an area further dominated by natural RP and mixed w/decid and conifer species. Did not locate a record but looks like a deciduous removal likely occurred in portions of stand. Most stems/species looking quite healthy. Burn scar stumps common, a larger hemlock growing out of one. Some older RP/WP present (1909ish DOB, 115 years old in '24).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		22	Log/Pole/XLog	12	88	Black Spruce		Low	Variable	Sapling	
Red Pine		38	Log/Pole/XLog	14	86	Balsam Fir		Medium	Variable	Sapling	
Bigtooth Aspen		16	Pole/Log	9		Northern White Cedar		Trace	5 - 10 feet	Sapling	
Paper Birch		2	Pole/Log	8		Red Oak		Medium	10 - 20 feet	Sapling	
Red Oak		12	Log/Pole/XLog	15		Juniper		Low	< 5 feet	Tall Shrub	
Red Maple		8	Pole/Sap/Log	8		Bigtooth Aspen		Low	>20 feet	Sapling	
Balsam Fir		2	Pole/Sapling	6		Sugar Maple		Low	10 - 20 feet	Sapling	
						Red Maple		High	10 - 20 feet	Sapling	
						Red Pine		Low	10 - 20 feet	Sapling	
						White Pine		Medium	10 - 20 feet	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
						Ironwood		Low	10 - 20 feet	Sapling	

<b>53</b>	4130 - Aspen	Sapling Well	1.8	24	1-50	N/A	A sapling size BTA regeneration island now surrounded by red pine re-plant (Stand 81). This is the result of the removal harvest that took place in 1997. Scattered log/pole red pine present. Small amount of log/pole white pine present and trace amount of log/XL log red oak observed. Stand excluded during prep activities for sale 'Flaperon Failure RP' in '16.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		8	Log/Pole	14							
White Pine		2	Log/Pole	14							
Red Oak		2	Sapling	3							
Beech		2	Sapling	2							
Red Maple		2	Sapling	3							
Bigtooth Aspen		82	Sapling/Pole	4	24						
Sugar Maple		2	Sapling	2							

<b>54</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	16.7	56	81-110	N/A	Predominantly a pole size stand featuring a mix of deciduous and conifer species. Canopy closure is on the lower side end of 75-100% in areas. RP, WP, and RO are of a larger DBH class than most other species present. This is likely the result of a previous removal harvest that left pine/oak. Pockets of sap/pole RP advanced regen in reduced canopy locations. Trace amount of pole BE/WhtSprc and xlog/log hemlock present. The area just north of the snowmobile trail is very lightly forested. BA swings= 90,80,90,80,130,90,80 (91 avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		30	Pole/Log	9	56	White Pine		Low	10 - 20 feet	Sapling	
Balsam Fir		3	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling	
Red Pine		8	Log/Pole/XLog	14		Red Oak		Medium	10 - 20 feet	Sapling	
Sugar Maple		6	Pole/Sap/Log	8		Black Spruce		Low	Variable	Sapling	
Paper Birch		5	Pole/Log	8		Red Pine		Medium	10 - 20 feet	Sapling	
Red Maple		18	Pole/Sap/Log	8		Sugar Maple		Low	>20 feet	Sapling	
Red Oak		12	Log/Pole/XLog	15	76	Ironwood		Low	10 - 20 feet	Sapling	
White Pine		18	Log/Pole/XLog	12		Red Maple		Medium	>20 feet	Sapling	
						Juniper		Low	< 5 feet	Tall Shrub	
						Beech		Low	5 - 10 feet	Sapling	



**Stand**      **Level 4 Cover Type**      **Size Density**      **Acres**      **Stand Age**      **BA Range**      **Managed Site**      **General Comments**

<b>55</b>	4130 - Aspen	Sapling Medium	26.5	6	Immature	N/A	PU4 of 'Flaperon Failure Red Pine', 540051601. Harvested fall/winter of '17/'18. Walk-through regen survey December '23. Aspen is/was dominant at time of survey, red maple sprouts common yet many sustaining browse pressure/damage. Stocking is not (yet) consistent throughout, especially where pine was previously prevalent. Stand likely has a 'fuller' appearance when leaf-on. West/southwest tended to have the patchier stocking. I'd estimate overall can-closure at ~75%. Some white pine seedlings establishing. Red oak left uncut and few pine marked to leave. Both amount to nearly no measurable BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Sapling	1	6	Bracken Fern		Medium	5 - 10 feet	Non-Wood
Red Oak		2	Log/Pole/Sap	15		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
Beech		8	Sapling	1		Hemlock		Trace	5 - 10 feet	Sapling
Sugar Maple		2	Sapling	1		White Pine		Low	< 5 feet	Seeding
Bigtooth Aspen		68	Sapling	1	6					

Natural mixed pine stand with overstory WP as the dominant species. Strong natural RP presence as well. The northern boundary picks up planted RP from Stand 51. Stand appears to be of fire origin. Burned stumps observed and believe an old trench/plow line is still visible. Deciduous overstory species include BTA, RM, SM, and Red Oak. BTA has the strongest presence but is of poor quality and beginning to fall out. Some sapling/seedling hemlock from Stand 58 makes its way into the southern boundary. Far eastern portion is lightly forested and features jack pine. Black Lake ORV Trail cuts through the eastern portion of this stand.

<b>56</b>	6132 - Mixed Lowland Forest with Cedar	Sapling Well	2.5	37	1-50	N/A	Based on available records, harvested '89 or '87 as a wildlife FTP cedar cut. It's the same type of (and age) FTP wildlife cut as Stand 73. A decent mix of BF, NWC, BlkSprc, PB, and RM throughout. Smaller components of sapling size quaking aspen and tamarack. Trace amounts of sapling/pole size red and white pine along northern boundary. An encouraging mixture of lowland conifer and deciduous.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		5	Sapling/Pole	4		Tag Alder		Low	5 - 10 feet	Tall Shrub
Red Maple		20	Sapling/Pole	4						
Paper Birch		20	Pole/Sapling	5						
Quaking Aspen		2	Pole/Sapling	5						
Balsam Fir		25	Sapling/Pole	4						
Northern White Cedar		28	Sapling	4	37					

<b>57</b>	42210 - Natural Red Pine	Sawtimber Well	5.6	81	111-140	N/A	A stand of upland fingers dominated by natural red pine. These fingers protrude along Orchard Beach Rd. The five polygons that make up this stand present quite a difference in species dominance than what is found in lowland Stands 59/70.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		2	Pole	8		Northern White Cedar		Low	Variable	Sapling
Red Maple		5	Pole/Log	7		Red Oak		Low	10 - 20 feet	Sapling
White Pine		2	Log/XLog	15		Red Maple		Low	10 - 20 feet	Sapling
Red Oak		2	Log/Pole/XLog	15		Quaking Aspen		Low	10 - 20 feet	Sapling
Red Pine		70	Log/Pole/XLog	14	81	Black Spruce		Low	Variable	Sapling
Bigtooth Aspen		2	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling
Balsam Fir		5	Pole/Sapling	6						
Black Spruce		2	Pole/Sapling	7						
Quaking Aspen		6	Pole/Log	9						
Paper Birch		4	Pole	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																											
<b>58</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.5	86	81-110	N/A	Pole size mixed HWD w/conifer stand. Hemlock presence, sap-xlog stems is encouraging. Areas w/very consistent, sometimes prolific (north-half) hemlock seeds/saps (not browsed too). Stand likely clearcut some time ago (no cut record) but hemlock/some pine was left. Some large/xlog remnant hemlock and WP/RP present throughout. Sugar maple most prevalent and of better form than some nearby M-types. Beech losing battle to BBD. The remainder is a mix of mainly pole size BTA, basswood, ironwood, red maple and scattered large red oak. An XL hemlock DBH - 31.2". ~Terraced changes in elevation, higher in south, steps down as you move north, then back up in far north. BA swings= 140,140,90,100,70 (108avg).																																																																																											
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<b>59</b>	6120 - Lowland Cedar	Poletimber Well	77.3	124	201+	N/A	Quite heavy to cedar in most areas though species/structurally diverse depending on location. Age class of cedar can vary from 120+ years to 80+ years old. Could easily code stand as a Q6/9. Upland/mixed species areas present north/south of Orchard Beach Rd corridor. These areas are heavier to QA, BTA, RM, balsam fir, paper birch, and mixed conifer. Blowdown areas present, being re-populated by a mixture of species. Trace amounts of overstory red oak, yellow birch, and hemlock observed throughout.																																																																																											
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<b>60</b>	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	40.0	86	111-140	N/A	A bit difficult to delineate, my goal being to isolate white pine dominance. Majority of stand (eastern 2/3's) is a fairly solid wall of overstory WP w/BTA mixing in. Oddly shaped west portion is still heavy to WP, yet has more RP, RO, BTA, RM, and HM mixed in. Burn scar stumps quite prevalent throughout. Some WP is still holding onto to live/dead branching, down to the ground. Other WP quite clean/self-pruned. BA swings= 120,130,110,110,160 (126avg)																																																																																											
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61	6229 - Mixed lowland shrub	Nonstocked	11.0		Unspecified	No	An area of expanding blowdown. The ~west 1/2 was previously mapped/visited during '14 inventory. The ~east 1/2 is (newer) blowdown that took place since '14. Individual and clumps of residual trees that didn't blowdown still alive/present. Sapling size paper birch, red maple, balsam fir, and spruce observed throughout, more so in the older blowdown section. Sub-canopy tree species are nearing 25% can-closure, though primarily still 'non-forested'. Tag alder and red osier dogwood present at lesser density as well. Quite an impressive blowdown site.																																																																				
62	42200 - Natural White Pine	Sawtimber Medium	10.6	80	51-80	N/A	Generally WP dominant with a mix of RP, BTA, JP then trace BF/QA/Hem. A second age class of sap/some pole sizes developing in areas that were previously non-forested. Canopy closure varies from 25-100%, 50-75 is about average. WP, RP, and BTA are mainly log size (poles not uncommon). Strip of pole aspen along south side of Trail 99. BA swings= 80,60,80 (73avg)																																																																				
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63	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	8.5	43	1-50	N/A	Lowland primarily dominated by sap size Fir, NWC, black spruce, paper birch, and tag alder. Smaller components of tamarack and red maple throughout. Limited pole size northern white cedar, balsam fir, and tamarack throughout that appear to of survived blow down over the years. Areas in the northeast and southern boundary of this stand feature pockets of pole size trees of the aforementioned species. Saplings are mixed into those pockets as well. Intermittent stream travels (N/S) through stand near east boundary.																																																																				
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64	6123 - Lowland Fir	Poletimber Well	4.6	66	81-110	N/A	Just west of Stand 71 that was clearcut in 2012, and east of intermittent stream (in Stand 63). Primarily sapling/pole size balsam fir mixed with black spruce, white spruce, limited northern white cedar, and overtopped by elderly log size quaking aspen. Some log size spruce while northern white cedar are mainly sapling and some pole sized. A portion of this stand is serving as retention for Stand 71 that was clearcut.																																																																				
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<b>65</b>	4130 - Aspen	Poletimber Well	26.7	56	111-140	N/A	Most of this stand resides on a gradual, south facing slope. Top of slope defines boundary between this stand and M6 Stand 69, bottom is C6 Stand 59. South boundary picks up some lowland types (NWC, Spruce, QA, RM) as the ground begins to transition. Trace canopy RP and most WP present along north/west boundary. Incidental component of large/healthy red oak too.			
<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		3	Log/XLog/Pole	15		Red Oak		Low	10 - 20 feet	Sapling
Sugar Maple		3	Pole	8		Sugar Maple		Low	>20 feet	Sapling
White Spruce		3	Pole	7		Red Maple		Low	10 - 20 feet	Sapling
Beech		3	Pole/Log	9		Balsam Fir		High	Variable	Sapling
Balsam Fir		8	Pole/Sapling	6		White Pine		Low	5 - 10 feet	Sapling
Paper Birch		3	Pole	8		Black Spruce		Low	Variable	Sapling
Red Oak		2	Log/XLog	16		Ironwood		Low	10 - 20 feet	Sapling
Red Maple		15	Pole/Log	9	68	Beech		Low	5 - 10 feet	Sapling
Bigtooth Aspen		60	Pole/Log	9	56					

<b>66</b>	500 - Water	Nonstocked	6.4		Unspecified	No	Small no-named pond/lake.
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<b>67</b>	6229 - Mixed lowland shrub	Nonstocked	33.8		Unspecified	No	Low density tree in this lowland area. Scattered sapling/pole size Northern White Cedar, Tamarack, Balsam Fir, live/dead Black Spruce, Red Maple, dead Black Ash (EAB), Balsam Poplar, Tag Alder, and Red Osier Dogwood. Vegetation increase in height as you move away from the no-name pond/lake.
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<b>68</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	9.1	60	111-140	N/A	BTA dominated stand with a strong component of canopy WP. Aspen DBH's vary from pole dominant to log dominant depending on location. Burn scar stumps common, several with hemlock saps/poles growing out of them. BA swings= 170,80,140,140,170 (140avg).			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		2	Log	14		Bigtooth Aspen		Low	>20 feet	Sapling
Paper Birch		2	Pole	9		Balsam Fir		Low	Variable	Sapling
Bigtooth Aspen		54	Log/Pole/XLog	11	60	White Pine		Low	10 - 20 feet	Sapling
Red Maple		8	Pole/Log	9		Sugar Maple		Low	>20 feet	Sapling
White Pine		30	Log/Pole/XLog	14	71	Red Maple		Medium	10 - 20 feet	Sapling
Red Oak		2	Log/XLog	15		Red Oak		Low	10 - 20 feet	Sapling
Balsam Fir		2	Pole/Sapling	6		Ironwood		Low	10 - 20 feet	Sapling
						Beech		Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>69</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	42.3	95	111-140	N/A	Pole size northern hardwood stand mixed with aspen. Diameters of most hard/soft maple is still quite small given stand age. Areas of decent hemlock regen present in east. Canopy contains a small conifer component of WP, Hemlock, and Fir. Northern hardwood species are of marginal quality, which is common here. Soils are good enough to grow them but not good enough to produce ok/decent quality stems. BTA component more prominent in west. Can and sub-can red oak begins to appear more in the west too. Trace red pine logs present.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		2	Log/Pole/XLog	14		Hemlock		Low	10 - 20 feet	Sapling	
Basswood		14	Log/Pole	11	85	Ironwood		Medium	10 - 20 feet	Sapling	
Beech		14	Pole/Log	9	95	White Spruce		Trace	< 5 feet	Sapling	
Paper Birch		3	Pole/Log	8		Beech		Medium	5 - 10 feet	Sapling	
Red Maple		10	Pole/Log	9		Balsam Fir		Low	Variable	Sapling	
Hemlock		2	Log/Pole/XLog	12		Red Oak		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		14	Log/XLog/Pole	12		Sugar Maple		Medium	>20 feet	Sapling	
Sugar Maple		36	Pole/Log	8	95						
White Pine		3	Log/Pole/XLog	14							
Balsam Fir		2	Pole	6							
<b>70</b>	6120 - Lowland Cedar	Poletimber Well	70.9	106	201+	N/A		Very NWC dominant stand. Cedar quality is ok/good and core samples were solid. Black spruce is a common associate at varying densities throughout the stand. Blow downs can be found throughout. Balsam Fir is aggressively populating the blow down areas and range from seedling to sapling size. Limited cedar regeneration observed when nearing no named lake and within blow down areas. Otherwise almost no cedar regen in closed canopy portions. Trace amounts of sap PB, RM, and BAM observed. Little deer sign/browse. Almost no understory outside of blow down areas. Some super canopy white pine dotted across the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		2	Pole/Sapling	5		Tag Alder			Low	Variable	Tall Shrub
Northern White Cedar		81	Pole/Log	9	106	Balsam Fir			Medium	Variable	Sapling
Tamarack		5	Pole/Log	9							
White Pine		2	Log/XLog	16							
<b>71</b>	4130 - Aspen	Sapling Well	13.6	12	Immature	N/A	Stand harvested in 2012 using privately granted access. Stand coded as a P9 prior to 2012 harvest. I have yet to see this stand without snow, so difficult to know how 'wet' it is and/or isn't. For now I'm calling it 'upland'. A portion of Stand 64 is serving as 'long-term retention' for the harvest that took place in this stand.				
Canopy Species		% Cover	Size Class	DBH	Age			Density	Avg. Height	Size	
Hemlock		2	Pole/Log	9							
Quaking Aspen		90	Sapling	2	12						
Balsam Fir		8	Sapling	2							
<b>72</b>	6121 - Tamarack	Poletimber Well	3.9	96	81-110	N/A	Nearly pure pole size tamarack stand with small component of sapling/pole balsam fir, northern white cedar, and red maple. Majority of stand appears healthy. Prolific tag alder understory, 5-10ft tall.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		2	Sapling/Pole	4		Tag Alder		High	5 - 10 feet	Tall Shrub	
Balsam Fir		2	Sapling/Pole	4							
Tamarack		94	Pole	8	96						
Northern White Cedar		2	Sapling/Pole	3							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>73</b>	6139 - Mixed Lowland Forest	Sapling Well	6.3	37	1-50	N/A	Based on available records, harvested '87 or '89 as a wildlife FTP cedar cut. 2004 data listed '87 as the year of origin. I found a cutting record for Stand 56 from 1989. It's the same type of FTP wildlife cut. A decent mix of sapling size balsam fir, northern white cedar, black spruce, paper birch, and red maple throughout. Smaller components of sapling quaking aspen and tamarack. Trace amounts of sap/pole size red and white pine along northern boundary. A good mixture of lowland species regeneration.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir	20	Sapling	3		Tag Alder	Low		5 - 10 feet	Tall Shrub		
Black Spruce	15	Sapling/Pole	4								
Paper Birch	15	Sapling/Pole	3								
Tamarack	3	Sapling/Pole	4								
Northern White Cedar	15	Sapling	3								
Balsam Poplar	2	Sapling/Pole	3								
Quaking Aspen	3	Sapling/Pole	3								
Red Maple	25	Sapling/Pole	3	37							
White Pine	2	Pole/Sapling	5								

<b>74</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	25.7	84	81-110	N/A	JSP, '23: This Stand and 32 were one stand last YOE. This stand has a much stronger oak/aspen component. Oak/BTA is generally log/xlog size (smaller DBH in 32). Imagery doesn't show much difference between the stands. Minor amount of hemlock present. Hard maple still has a strong presence in stand, red maple too. HM/RM generally poorer form/quality because of sandy/cobble soils. BA swings= 80,50,70,70,110,60,90,70,80,40 (72avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine	2	Pole/Log	8		Red Maple	Medium		10 - 20 feet	Sapling		
Paper Birch	3	Log/Pole	11		Beech	Medium		5 - 10 feet	Sapling		
Bigtooth Aspen	22	Log/XLog/Pole	15	79	Red Oak	Medium		10 - 20 feet	Sapling		
Beech	5	Pole/Log	9		Balsam Fir	Low		Variable	Sapling		
White Pine	5	Log/Pole/XLog	15		White Pine	Low		5 - 10 feet	Sapling		
Red Oak	22	Log/Pole/XLog	16		Ironwood	Medium		10 - 20 feet	Sapling		
Red Maple	15	Pole/Sap/Log	9		Sugar Maple	Medium		>20 feet	Sapling		
Sugar Maple	25	Pole/Sap/Log	8	84							
Hemlock	1	Pole/Log/XLog	8								

<b>75</b>	4133 - Aspen, Mixed Pine	Sapling Well	4.2	27	1-50	N/A	Clearcut (along with Stands 11/14) in 1997. Aspen stems are beginning to migrate into pole sizes throughout (pine too).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine	15	Sapling/Pole	4		Beech	Low		5 - 10 feet	Sapling		
White Pine	8	Sapling/Pole	4								
Red Oak	4	Sapling	3								
Jack Pine	2	Sapling/Pole	4								
Quaking Aspen	11	Sapling/Pole	4								
Sugar Maple	2	Sapling	2								
Ironwood	2	Sapling	1								
Red Maple	2	Sapling	3								
Black Cherry	2	Sapling	3								
Bigtooth Aspen	52	Sapling/Pole	4	27							



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<b>77</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	31.6	106	Unspecified	N/A	Previously part of Stand 70, now separated by the large blow-down complex that is Stand 61 (L0). Windthrow, blow-down and mortality all common in this stand. BF aggressively regenerating some windthrow areas, range from seed/sap size. Some limited NWC regen too. Trace amounts of sap size PB, RM, and BAM observed. Super-can WP here/there. Inconsistent BA's, so did not pick a range for this stand. A wet tangle....																																																																													
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<b>79</b>	42110 - Planted Red Pine	Sawtimber Well	11.2	85	81-110	N/A	Boundary excluded long-term retention for the final harvest portion of Stand 51 (Flaperon Failure Red Pine, map attached above). Stand has the same planting/treatment history as Stand 51. Fairly consistent sap regen layer, the result of species removal in late 90's. Greater component of canopy oak/some other deciduous present (when compared to parent stand). This stand could continue to serve as retention when/if the remainder of Stand 51 is restarted.																																																																													
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<b>81</b>	3103 - Rubus-Fern	Nonstocked	67.4	0	Unspecified	4211 - Planted Red Pine	Initial planting completed 4/24/2024 with 1-0 Red Pine at ~919 TPA.  Final harvested 11/2018, 'Flaperon Failure RP' (map above). Prep by JSP. Red pine planted/established in 1939. Quite certain planted 3-rows of RP, then 2-rows JP. Species removal 96-98', all species cut except RP/WP/RO. Sap layer became quite dense as a result of the removal. This was a factor when deciding to final harvest/re-plant. Belonged to Stand 51 prior to '18 harvest.																																																																													
<b>84</b>	3103 - Rubus-Fern	Nonstocked	105.0	0	Unspecified	4211 - Planted Red Pine	Aerial site prep spraying completed 7/20/2024. Trenching of this stand was completed on 5/26/2023. Harvested 1/2018. Previously a stand of natural red pine. The northern finger, most of which harvested in '18, has been excluded from trenching/planting. This area is located atop seasonally low/wet ground.																																																																													





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																						
<b>85</b>	42110 - Planted Red Pine	Sawtimber Well	1.0	69	111-140	N/A	Just like Stand 34 (planted in '55) but with a somewhat different treatment history. Was not 3rd row thinned in 07' with Stand 34. Understorey removal did occur '96-98 (in Stand 34 too), leaving RP, WP, and oak. Most recently 3rd row thinned March '18 as PU1 of 'Trail 99 Red Pine', map attached above. BA swings= 120,110,150,150,200 (146avg).																																																																																						
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<b>86</b>	42210 - Natural Red Pine	Sawtimber Well	7.4	88	111-140	N/A	This three-part polygon stand was formally belonged to/was merged in with Stand 6. It seemed to be the best 'home' for these stand '16 YOE inventory. They now serve as geographically separate long-term retention for Stand 6. Each polygon is dominated by natural red pine. Not quite sure the past management history, though the northern poly does have signs of a previous thin, likely when Stand 8 was treated last. The other two polys don't show signs of previous harvest. Each to share a boundary or more against lowland cover types. Spruce/lowland shrubs sneak into these stands as a result. Of note, an old railroad grade travels through the two southern polygons.																																																																																						
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<b>87</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	8.9	84	81-110	N/A	Generally, a pole size mixed northern hardwood stand featuring components of overstorey BTA, WP, RP, and red oak. Northern hardwood quality is marginal at best. The smaller and separate polygon furthest south is generally of a smaller size class (sap/pole) than remainder of stand. This polygon was part of a clearcut that took place in 86-87' (based on cut records).																																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**90** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 8.1 47 51-80 N/A

Previously part of a larger stand, that included Stands 22/26. Excessively wet conditions have now made Stand 26 a 'low-density mixed' stand, causing the creation of this stand. Mixture of lowland deciduous and conifer species within this stand. Central areas are briefly upland. Perimeter areas serve as seasonal water courses, primarily draining into Stand 7 (L0).

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	6	Pole/Sapling	5	
Balsam Fir	20	Pole/Sapling	6	
Northern White Cedar	6	Pole/Log	8	
Black Ash	4	Sapling/Pole	3	
Quaking Aspen	15	Log/Pole	11	
Red Maple	35	Pole/Sapling	7	47
Paper Birch	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Black Ash	Medium	5 - 10 feet	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling