



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54119

Entry Year 2026

Acreage: 1,481

County Presque Isle

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Daniel Natzke

Legal Description:

T33N, R2E, Sec.16, 17, 20, & 21

Identified Planning Goals:

Management goals in the Presque Isle Lake and Till Plain include balancing age classes of forested stands, producing a steady sustainable harvest of timber, decreasing planted jack pine acreage, increasing planted red pine acreage, and managing wildlife with special attention to habitat for American woodcock, ruffed grouse, golden winged warbler, snowshoe hare, Kirtland's warbler, elk, marten, black bear, wild turkey, and black backed woodpecker.

Soil and topography:

Compartment 119's topography is generally flat to gently rolling. There are relatively few steep slopes. These are typically associated with moraine features and karst topography. Most of the compartment is well-drained upland. Generally glacial deposits extend from the soil's surface to between 200 to 1000 feet in depth.

The most common soil type in these areas is Cheboygan loamy sand. Similar soils with a proportion of loam include the Mancelona, Rubicon, and Melita soils with Au Gres being a somewhat wet variant that is less well drained. Forest cover before European settlement was likely beech and hemlock forest. These forests had a standing replacing fire return interval of 140-550 years. After the cutover, severely burned areas favored oak establishment and areas seeing lower intensity surface fires tended to prepare a seedbed for pine. These soils support the common aspen, oak and pine stands in the area.

Another group of upland soils are the Graycalm, Klacking, and Grayling soils. These are coarse textured and excessively well drained. Prior to European contact, these soils supported jack pine forests and jack pine barrens. Stand replacing fire return intervals were between 10 and 80 with surface fires occurring every 2 to 20 years. Common trees found on these soils include jack pine and northern pin oak.

Poorly drained soils in lowlands and drainageways include Crosswell, Dawson, and Tawas mucks with considerable organic layers, as well as the somewhat better drained and coarse textured losco, Moltke, and Onaway soils. Stand replacing fires occurred at 500–2000-year intervals with very rare surface fires. These soils support lowland conifer and lowland hardwood stands including black ash, red maple, balsam poplar, balsam fir, hemlock, black spruce, and northern white cedar. They also underlay the compartment's lowland brush, floodplains, and marshes.

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

State land surrounds most of the compartment with a few private parcels mostly used as camps.

Unique Natural Features:

There are a number of natural features associated with karst topography.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

This compartment does not have special management designation or considerations but nearby compartments have ecological reference areas.

Watershed and Fisheries Considerations:

Tomahawk Creek flows through the compartment. Long Lake is situated in the south. There are a few ponds in the compartment that may relate to karst topography. The compartment does not contain cold water streams. Best management practices for water should be adequate to protect the compartment's water resource.

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 elk, pileated woodpecker, ruffed grouse, wild turkey, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest and large open grassland complexes; the retention of large, over-mature trees and snags; and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial production of metallic minerals in this part of the state. No known active sand/gravel operations exist in the area. There may be some potential for sand & gravel within the compartment on the uplands, but the compartment might be too far from populated areas (markets) for any aggregate to have much economic value beyond use by the county road commission or DNR for local road maintenance. The compartment is within the northern Silurian reef trend hydrocarbon play, but only one successful reef well has been drilled within the compartment to date. Some of the lack of activity may be related to past non-development classification of the southern half of the compartment and lack of viable well sites for any potential reef targets. Potential for additional future test drilling within the compartment cannot be fully assessed without access to proprietary industry seismic data. Some active leases involving State-owned mineral rights exist in the compartment and are held by production occurring some distance away from the compartment. No known potential exists beneath the compartment for oil & gas from other known producing formations. 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:

M-33 defines the compartment's western boundary. County Road 634 divides the compartment into north and south halves. Numerous state forest roads provide reasonably good access throughout.

Survey Needs:

The compartment seems to be fairly well surveyed. Surveys are not likely.

Recreational Facilities and Opportunities:

The High Country Pathway bisects the compartment from southwest to northeast. A segment of the Michigan Cross Country Cycle Trail runs in an arc across the the south.

Fire Protection:

DNR task forces from Atlanta and Onaway will respond to fires in the compartment along with local volunteer fire departments.

Additional Compartment Information:

The compartment saw fire in the 1939 Canada Creek Fire.

The following reports from the Inventory are attached:

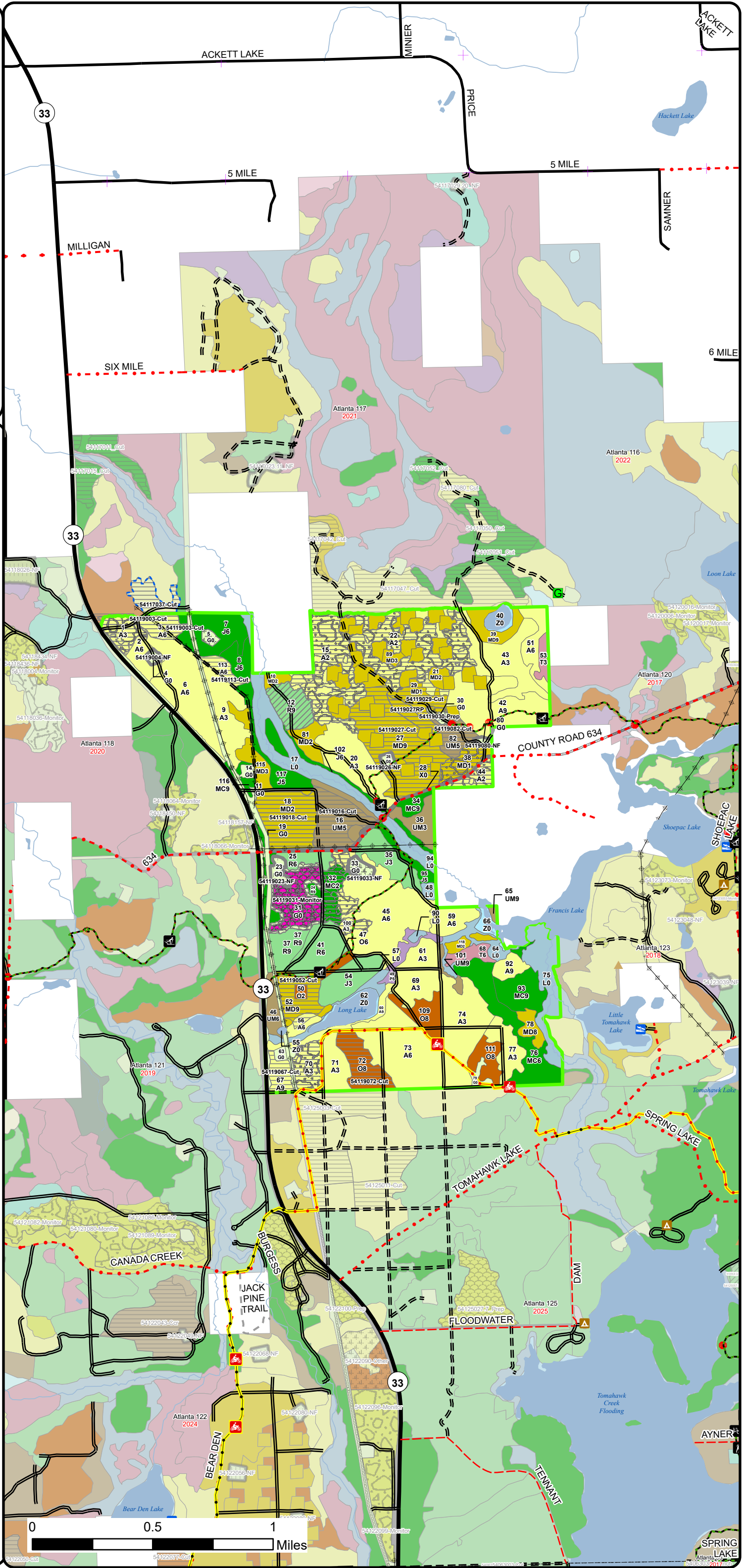
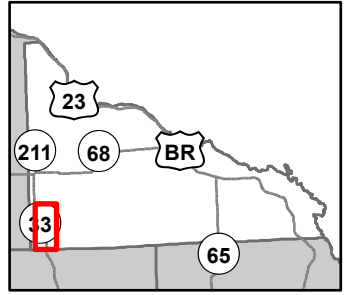
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 54119
 T33N, R2E, Sec: 16, 17, 20, 21
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Presque Isle Lake and Till Plains
 YOY: 2026
 Acres: 1481.3 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 6/20/2024
 Map Phase: Web Post

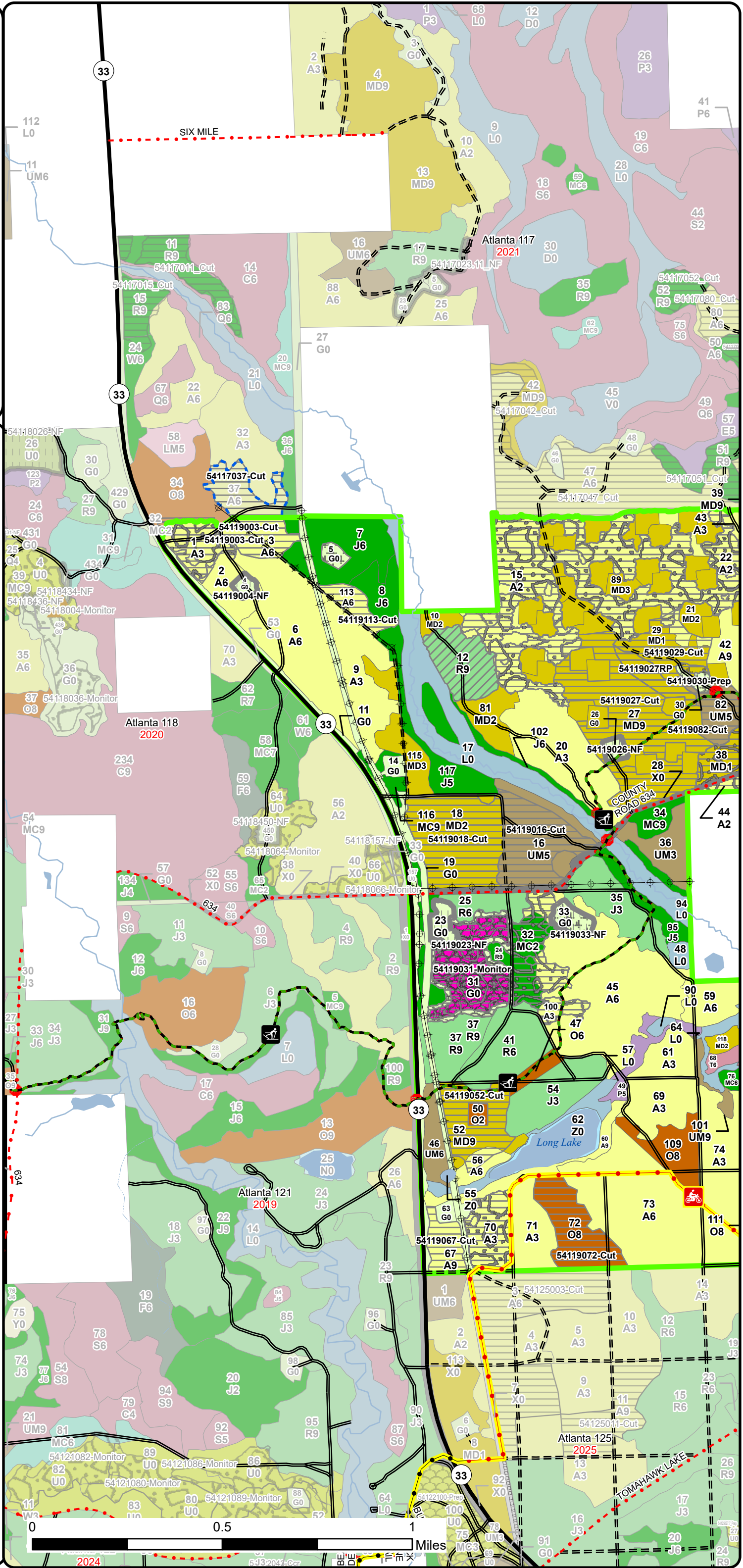
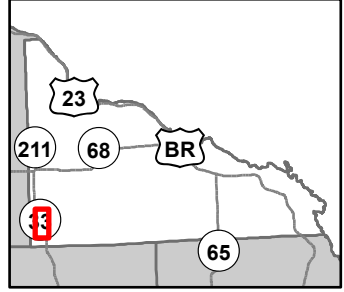


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- Ski Trails
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- Berms
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- Opening Maintenance
- Site Prep
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- Planting (tree species)
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- Other Treatment - See Comments
- **INCORRECT ATTRIBUTES**
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
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- 122 - Roads/Parking Lot
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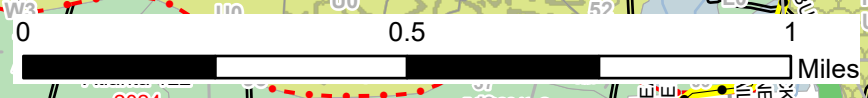


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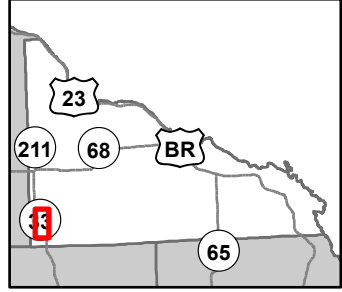
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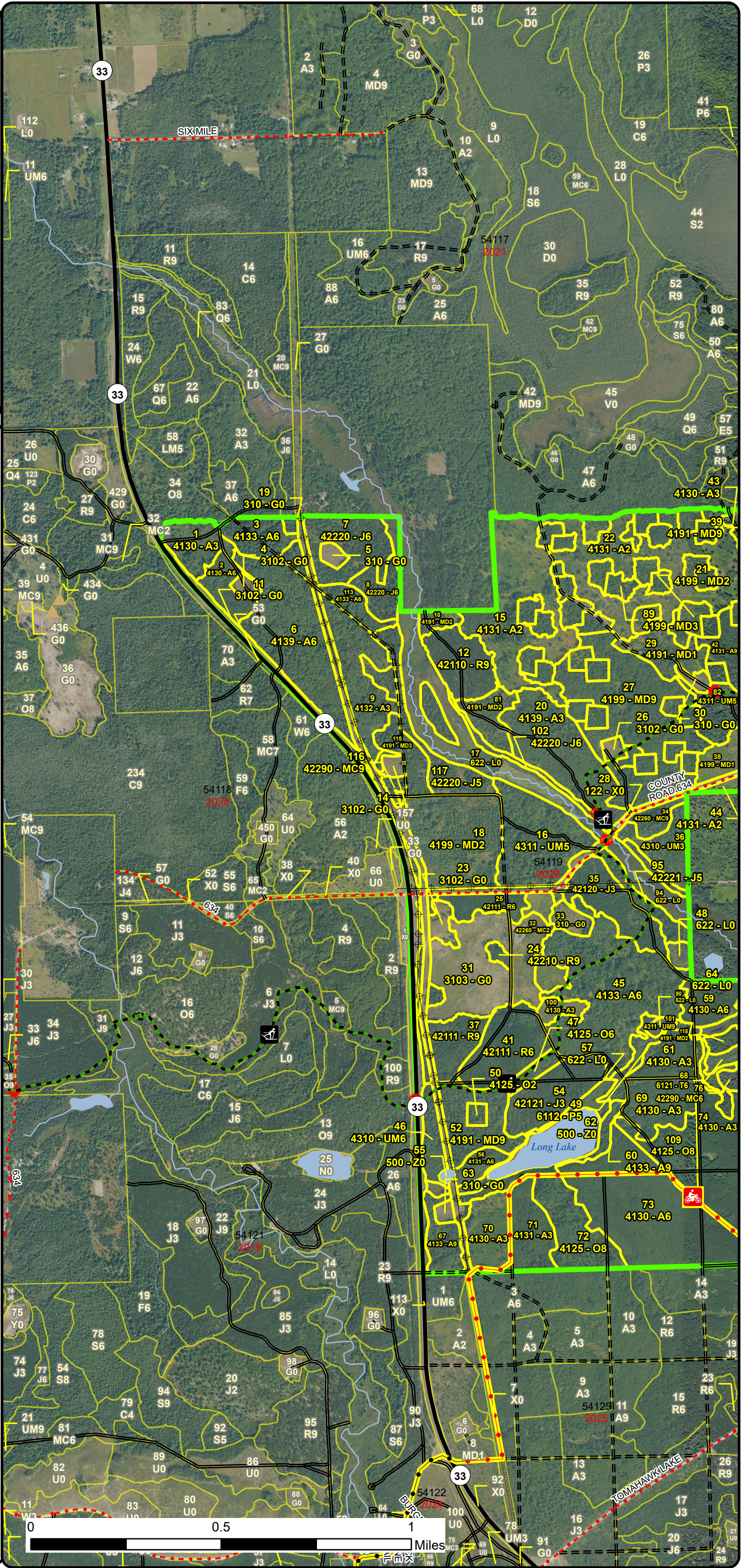
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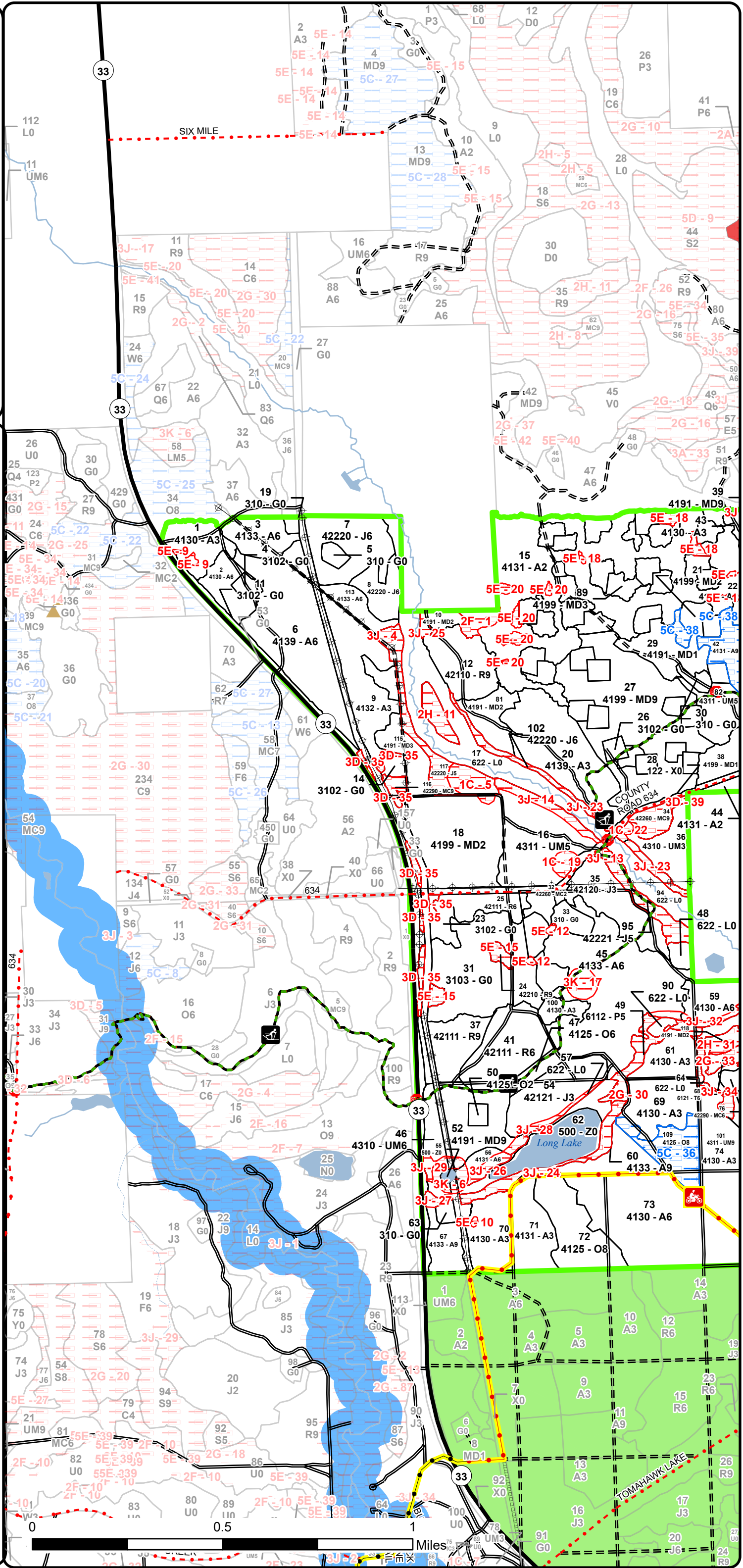
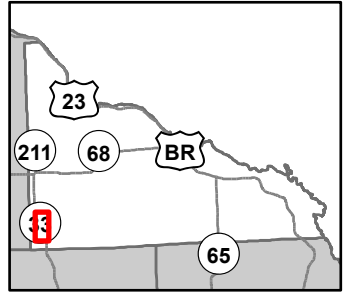


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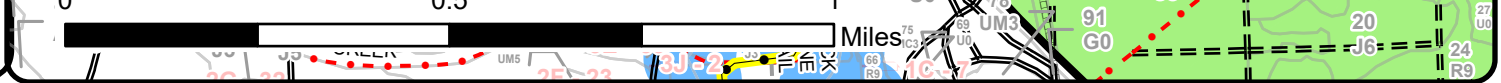


Special Conservation Areas & Site Conditions Map

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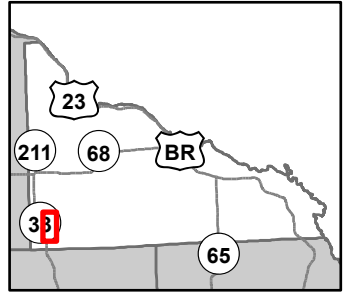


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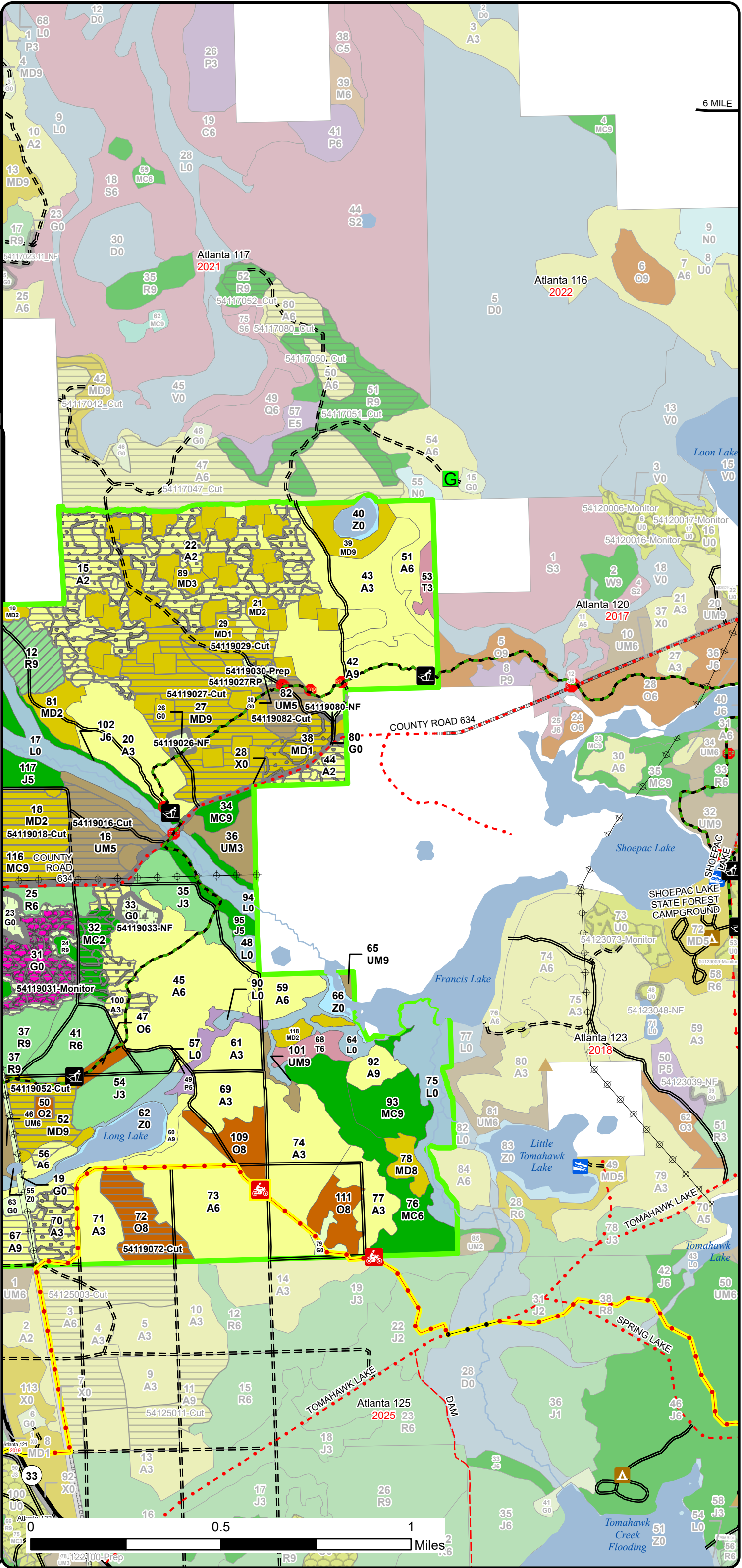


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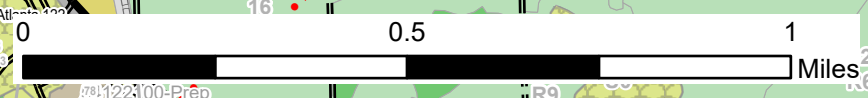
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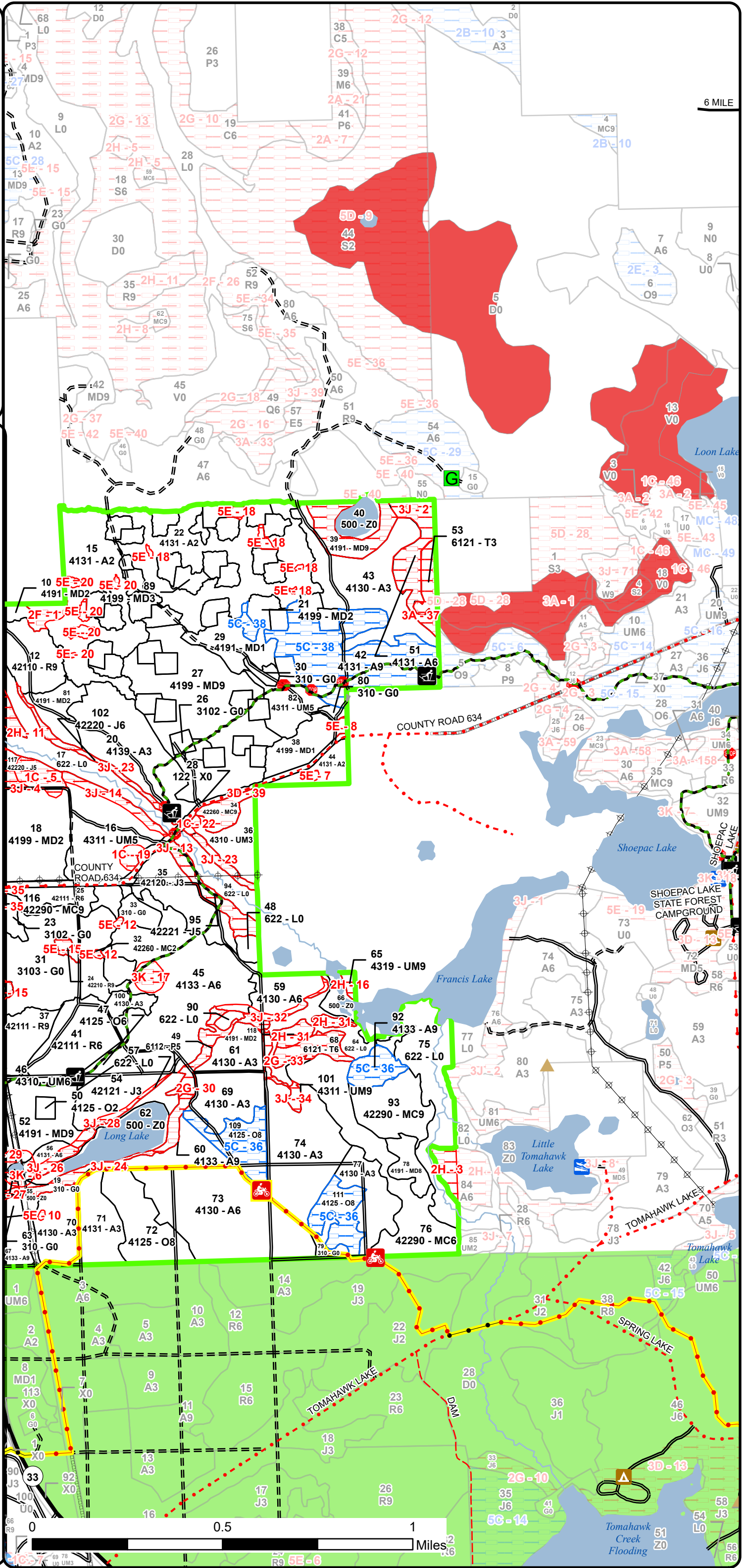
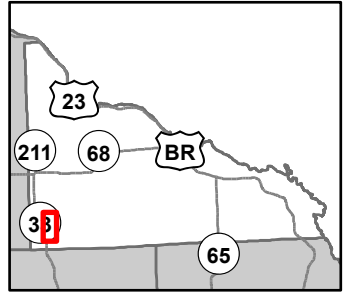


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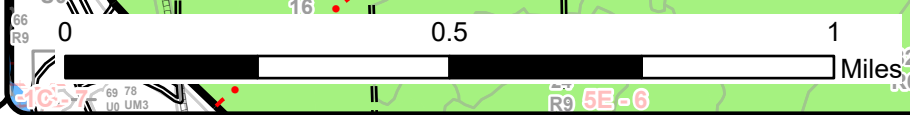


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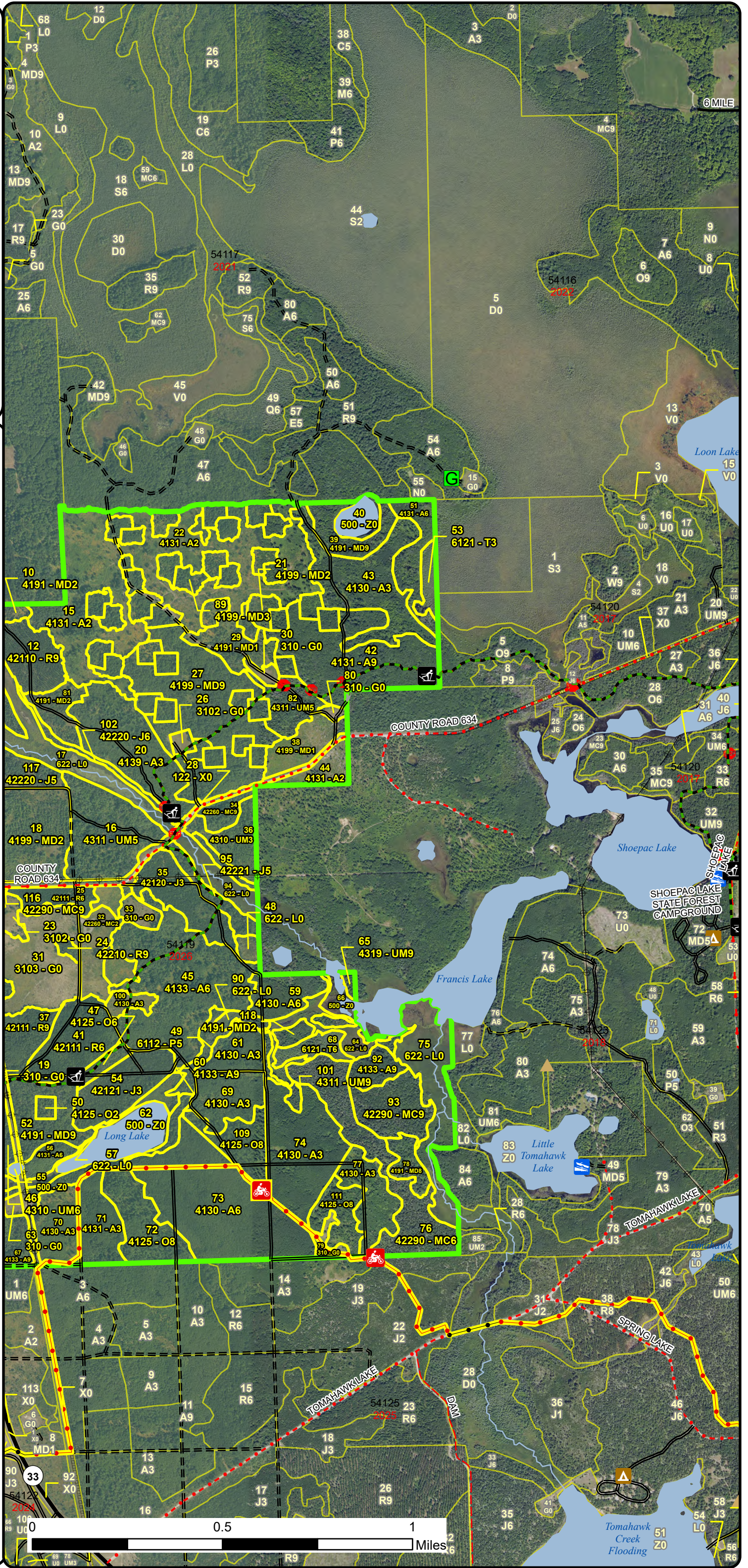
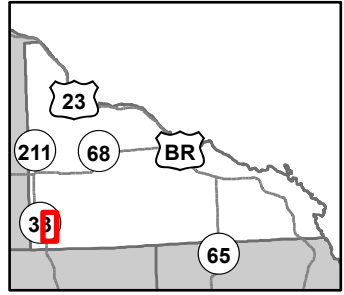
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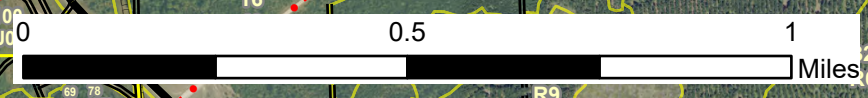
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	140	99	83	88	109	17	22	53	0	0	0	0	0	0	0	0	0	611
Herbaceous Openland	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Jack Pine	0	0	0	41	20	9	0	26	0	7	0	0	0	0	0	0	0	0	103
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Mixed Upland Deciduous	0	12	89	66	0	0	0	7	0	11	19	54	0	0	0	0	0	0	257
Natural Mixed Pines	0	12	0	0	0	0	0	19	35	0	7	0	5	0	0	0	0	0	77
Oak	0	0	0	2	0	0	0	0	0	44	4	0	0	0	0	0	0	0	50
Red Pine	0	0	0	0	29	0	0	30	0	3	0	0	0	0	0	0	0	0	62
Tamarack	0	0	0	0	0	0	0	5	0	0	0	0	6	0	0	0	0	0	11
Upland Mixed Forest	0	0	12	0	0	0	0	51	0	0	0	3	0	0	0	0	0	0	66
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Total	235	164	200	192	137	118	17	160	95	65	30	57	11	0	0	0	0	0	1479



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 119

Total Compartment Acres: 1,481

Commercial Harvest - 203
 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	25	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	123	0	0	0	0	0	0	0	0	123
Oak	20	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	36	0	0	0	0	0	0	0	0	36
Total	203	0	0	0	0	0	0	0	0	203

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	203	2	0	0	0	23	0	13		242
Next Step	0	187	95	0	95	461	0	0		837
Total	203	189	95	0	95	484	0	13		1079



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:

37	54117037-Cut	11.8	4134 - Aspen, Spruce/Fir	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with single tree retention. Mark to retain healthy red or white pine not exceeding 10 BA overall. Oak wilt specification. Current</p> <p><u>Specs:</u> Atlanta grouse tree specification. Harvest with 54119003 adjacent to the south. Upon completion of the sale, merge this stand into the compartment to the south (54119).</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, maple, jack pine, red pine, white pine, balsam fir</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

3	54119003-Cut	10.3	4133 - Aspen, Mixed Pine	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with single tree retention. Mark to retain healthy red or white pine not exceeding 10 BA overall. Harvest with 54117037 adjacent to the north. Upon completion of the sale, merge this stand into the compartment to the south (54119). Oak wilt specification. Current Atlanta grouse specification.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, maple, jack pine, red pine, white pine, balsam fir</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

4	54119004-NF	1.8	3102 - Grass	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage and maintain its open character, through burning,</p> <p><u>Specs:</u> mowing, mulching, planting, herbicide, or other agriculture practices.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Treat invasives</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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16	54119016-Cut	24.7	4311 - Pine, Aspen Mix	Poletimber Medium	67	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut with retention. Leave an appropriate setback from Tomahawk Creek, see site conditions. 3-10% area retention will be located there.
Specs:

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

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

Other Note the 1C site condition.
Comment:

Treatment 54119027RP, 54119029-Cut, 54119082-Cut, 54119016-Cut, and 54119018-Cut must be added to the same sale. These stands will be a part of the same red pine planting treatment.

Site Condition

Proposed Start Date: 10/1 /2024

18	54119018-Cut	34.5	4199 - Other Mixed Upland Deciduous	Sapling Medium	16	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Retention will be in the site conditioned area in the northeast.
Specs:

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

Acceptable A stand in which red pine dominates.
Regen:

Other Note 1C site condition in the northeast. Be attentive for any similar conditions (not currently site conditioned) in the stand's northwest and
Comment: exclude these from the harvest and subsequent future treatments.

Treatment 54119027RP, 54119029-Cut, 54119082-Cut, 54119016-Cut, and 54119018-Cut must be added to the same sale. These stands will be a part of the same red pine planting treatment.

Site Condition

Proposed Start Date: 10/1 /2024

23	54119023-NF	4.0	3102 - Grass	Nonstocked	Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland			No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage and maintain its open character, through burning,
Specs: mowing, mulching, planting, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable
Regen:

Other Treat invasives
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
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26	54119026-NF	2.0	3102 - Grass	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage and maintain its open character, through burning, Specs: mowing, mulching, planting, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable
Regen:

Other Treat invasives
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

27	54119027-Cut	47.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	107	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear cut area and single tree retention not to exceed 10% area or 10BA overall. Suggested area retention: the hill on the north side of Specs: CR634 for visual purposes. Protect High Country Pathway. Oak wilt specification.

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

Acceptable Oak, maple, aspen, jack pine, white pine, red pine, balsam fir
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

27	54119027RP	6.7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	107	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut without retention to add to the future planting area in stand 29 and 82. Protect the High Country Pathway.
Specs:

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

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

Other Treatment 54119027RP, 54119029-Cut, 54119082-Cut, 54119016-Cut, and 54119018-Cut must be added to the same sale. These stands
Comment: will be a part of the same red pine planting treatment.

Site Condition

Proposed Start Date: 10/1 /2024



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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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29	54119029-Cut	15.4	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	22	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut. Following harvest, merge with stand 82 and prepare for red pine. Reach into a small part (about 2.5 acres) of stand 42 to square up the area for future planting. Retention unnecessary due to the small size of the stand.
Specs:

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

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

Other Treatment 54119027RP, 54119029-Cut, 54119082-Cut, 54119016-Cut, and 54119018-Cut must be added to the same sale. These stands
Comment: will be a part of the same red pine planting treatment.

Site Condition

Proposed Start Date: 10/1 /2024

30	54119030-Prep	2.1	310 - Herbaceous Openland	Nonstocked		Unspecified	SitePrep	Roller Chopping	42110 - Planted Red Pine	Even-Aged	No
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Prescription If necessary, roller chop to set back undesirable competition to red pine.
Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial - Release; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use;
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Planted red pine and native associates
Regen:

Other Coordinate treatments in stands 29, 30, and 82. The goal is to manage all three stands as a red pine stand in the future.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

33	54119033-NF	4.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage and maintain its open character, through burning, mowing, mulching, planting, herbicide, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Treat invasives
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
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52 54119052-Cut	19.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	93	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear cut with area retention and single tree retention not to exceed 10% or 10BA overall.
Specs: Place area retention in site conditioned areas buffering Long Lake or the sink hole (stand 55). Trail protection for the High Country Pathway.
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Aspen, oak, maple, jack pine, red pine, white pine, spruce, balsam fir
Regen:
Other
Comment:
Site Condition
 Proposed Start Date: 10/1 /2025

67 54119067-Cut	8.2	4133 - Aspen, Mixed Pine	Sawtimber Well	63	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear cut with area retention and marked healthy red and white pine single tree retention not to exceed 10% or 10BA overall. Place area retention in the site conditioned area next to lowland brush in the north. Current Atlanta grouse specification.
Specs:
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Aspen, oak, maple, jack pine, red pine, white pine, balsam fir, spruce
Regen:
Other
Comment:
Site Condition
 Proposed Start Date: 10/1 /2025

72 54119072-Cut	20.0	4125 - Black, N. Pin Oak	Sawtimber Medium	83	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear cut without area or single tree retention. Pile tops on the most vigorous 60-70% of oak stumps. Oak wilt no exceptions. Trail protection standards.
Specs:
Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate)
Treatments:
Acceptable Oak, maple, aspen, white pine, red pine, jack pine
Regen:
Other
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
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80	54119080-NF	1.3	310 - Herbaceous Openland	Nonstocked	0	Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage and maintain its open character, through burning, mowing, mulching, planting, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable
Regen:

Other Treat invasives
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

82	54119082-Cut	11.2	4311 - Pine, Aspen Mix	Poletimber Medium	67	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut. Protect the High Country Pathway. Retention unnecessary due to the small size of the stand.

Specs:

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

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

Other Treatment 54119027RP, 54119029-Cut, 54119082-Cut, 54119016-Cut, and 54119018-Cut must be added to the same sale. These stands
Comment: will be a part of the same red pine planting treatment.

Site Condition

Proposed Start Date: 10/1 /2024

113	54119113-Cut	6.3	4133 - Aspen, Mixed Pine	Poletimber Well	48	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clear cut. Current Atlanta grouse specification. Oak wilt specifications, no exceptions, due to stand size and shape.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, maple, jack pine, red pine, white pine, balsam fir
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Approved Treatments:

31	54119031-Monitor	23.2	3103 - Rubus-Fern	Nonstocked	0	Immature	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
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Prescription Acceptable regen can be of med/well stocked red pine.

Specs:

Next Step ; ; Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Acceptable regen can be of med/well stocked red pine.
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Start Date: 10/1 /2023

Total Treatment Acreage Proposed: 253.8

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 119
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		5C	1C	2F	2G	2H	3A	3D	3J	3K	5E	ed
612	518	53	41	Aspen	53		3					27	4	6	
99	98	0	1	Herbaceous Openland									1	0	
103	68	0	35	Jack Pine		5			4			26			
7	0	0	7	Lowland Aspen/Balsam Poplar				7							
98	97	0	0	Lowland Shrub								0	0		
257	237	0	20	Mixed Upland Deciduous		1			5			13	0	1	
77	64	0	13	Natural Mixed Pines							12			1	
50	26	25	0	Oak	25										
63	60	0	3	Red Pine										3	
11	0	0	11	Tamarack				6		5		0			
66	52	0	14	Upland Mixed Forest		2			1			9	1		0
10	10	0	0	Urban								0			0
28	27	0	1	Water									1		
1,481	1,258	77	146	Total Forested Acres	77	8	3	14	10	5	12	75	8	11	0
	85%	5%	10%	Relative Percent											

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This portion of stand 15 was left out of the harvest in the rest of the stand likely because of operability concerns. This portion of the stand lies on a slope that doesn't allow for equipment to turn around at the top near the private boundary.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was left as a buffer to lowland area to east after sale.							

Report 4 – Site Conditions

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3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Likely left as a stream buffer in the past							
5	Unavailable	1C: Other dept or div proc/practices	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Other department policies. Areas left as stream buffer.							
6	Unavailable	3K: Rare or unique landforms	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Stream buffer in passed harvests plus alignment of high country pathway.							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate location of the setback for Tomahawk Creek.							
15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 119
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17	Unavailable	3K: Rare or unique landforms	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unspecified	Unspecified	0				
Comments:							
22	Unavailable	1C: Other dept or div proc/practices	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Other department policies.							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream buffer for previous harvests.							

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24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream buffer in previous harvests.							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Slope terminates directly into wetland with no room to turn equipment.							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Small stand cut off by drainages showing considerable beaver damage throughout.							
32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Slopes and wetland setback. Wouldn't hurt to hold future harvests back from the wetland edge due to beaver activity.							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Stand is probably too wet most years. Generally poorer growth as well.							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Previous harvest buffers that also include red and a few white pine near or at legacy status.							
35	Unavailable	3D: Recreational / Scenic values	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small "standlets" along M-33. High visibility. Many containing about 100 year old oak and red/white pine approaching legacy standards. Difficulty in harvesting due to proximity to highway and powerline ROW. Best left for aesthetic relief, ecological purposes.							

Report 4 – Site Conditions

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Compartment: 119
Year of Entry: 2026

36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Fairly small and isolated</p>							
37	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p>Comments: Loon Lake muskeg ERA. Too wet.</p>							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Coordinate treatment with the rest of the stand in the compartment to the east where possible.</p>							
39	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Very small stand with mature red and white pine at the center and more recent white pine regeneration on the edges. Highly visible on a turn at the top of a hill.</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4130 - Aspen	Sapling Well	11.7	5	Immature	N/A	Stand is growing in well. Honeysuckle is densest on the eastern boundary of the stand. It's rare elsewhere.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		25	Sapling	1		Red Pine		Low	< 5 feet	Seeding	
White Pine		5	Sapling	1		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		70	Sapling	1	5	Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub	

2	4130 - Aspen	Poletimber Well	9.3	33	51-80	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		13	Pole/Sapling	5		Balsam Fir		Trace	10 - 20 feet	Sapling	
Northern Pin Oak		2	Sapling/Pole	3		Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub	
Red Maple		8	Sapling/Pole	4		Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub	
Bigtooth Aspen		62	Pole/Sapling	5	33	White Pine		Medium	5 - 10 feet	Sapling	
Balsam Fir		2	Pole/Sapling	5		Autumn Olive		Low	5 - 10 feet	Tall Shrub	
White Pine		5	Pole/Log/Sap	7		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub	
Red Pine		5	Pole/Log/Sap	7		Black/Red (Hybrid) Oak		Trace	< 5 feet	Seeding	
Jack Pine		1	Sapling	4							
Black Spruce		2	Sapling	3							

3	4133 - Aspen, Mixed Pine	Poletimber Well	10.3	55	81-110	N/A	Also a considerable amount of approximately 45 year old aspen on a second look.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		3	Log/Pole	10		White Pine		Medium	5 - 10 feet	Sapling	
Jack Pine		15	Pole	8	47	Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub	
White Oak		2	Log	14		Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		35	Pole/Log	9	55	Balsam Fir		Low	Variable	Sapling	
Red Pine		5	Log	15		Serviceberry (Juneberry)		Trace	10 - 20 feet	Tall Shrub	
Quaking Aspen		15	Pole	7		Cherry (spp.)		Low	5 - 10 feet	Tall Shrub	
Red Maple		5	Sapling/Pole	4		Northern Pin Oak		Low	10 - 20 feet	Sapling	
White Pine		15	Pole/Log	8							
Balsam Fir		5	Pole/Sapling	7							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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4	3102 - Grass	Nonstocked	1.8		Immature	Managed Opening	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Spotted Knapweed		Medium	Unspecified	Non-Wood	
		Hawthorn (spp.)		Trace	10 - 20 feet	Tall Shrub	
		Mixed Sedges/Grasses		High	Unspecified	Non-Wood	
		Sweet Fern		Trace	< 5 feet	Tall Shrub	
		Autumn Olive		Low	5 - 10 feet	Tall Shrub	
		Balsam Poplar		Low	>20 feet	Sapling	
		Red Pine		Trace	>20 feet	Sapling	
		Blackberry/Raspberry		Trace	< 5 feet	Tall Shrub	
		White Pine		Low	10 - 20 feet	Sapling	
		Honeysuckle (spp.)		Trace	< 5 feet	Tall Shrub	

5	310 - Herbaceous Openland	Nonstocked	2.2		Unspecified	No	The trail to the opening has grown over.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Spotted Knapweed		Medium	Unspecified	Non-Wood	
		Mixed Sedges/Grasses		High	Unspecified	Non-Wood	
		Little Bluestem		Low	Unspecified	Non-Wood	
		Sweet Fern		Medium	< 5 feet	Tall Shrub	

6	4139 - Aspen, Mixed Deciduous	Poletimber Well	41.2	47	81-110	N/A	There is a low density of hawthorn throughout. Honeysuckle is densest in north third.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		2	Pole/Sapling	6		Red Maple	
Bigtooth Aspen		15	Pole	7		White Pine	
Jack Pine		2	Pole	7		Serviceberry (Juneberry)	
Red Pine		5	Log	16		Honeysuckle (spp.)	
White Pine		8	Log/Pole	10		Jack Pine	
Red Maple		10	Log/Pole	10		Cherry (spp.)	
Quaking Aspen		43	Pole	8	47	Hawthorn (spp.)	
Black/Red (Hybrid) Oak		15	Log/Pole	13			

7	42220 - Natural Jack Pine	Poletimber Well	23.1	26	51-80	N/A	There is a single wire fence in north with no trespassing signs. A blue carsonite identifies the survey monument in the NE across the lowland stand. A double plow line runs across portions of the stand's NE.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		5	Log	15		Blueberry/Bilberry/Cranberry	
White Pine		5	Pole/Log	9		Pennsylvania Sedge	
Jack Pine		78	Pole/Sapling	5	26	Cladonia (Reindeer moss)	
Quaking Aspen		10	Pole	7		Wintergreen	
Balsam Fir		2	Pole	6		Cherry (spp.)	
						Honeysuckle (spp.)	
						Northern Pin Oak	
						Jack Pine	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	42220 - Natural Jack Pine	Poletimber Well	8.8	46	81-110	N/A	Some older trees show scorching from fire possibly 25-30 years ago which probably initiated stand 7 to the north. There is a grove of 100 year old red pine in the east-center of this stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		85	Pole	8	46	Serviceberry (Juneberry)		Trace	10 - 20 feet	Tall Shrub	
Red Pine		15	Log/XLog/Pole	13	102	Red Pine		Low	Variable	Sapling	
						Wintergreen		Medium	< 5 feet	Tall Shrub	
						Cherry (spp.)		Low	10 - 20 feet	Tall Shrub	
						Balsam Fir		Trace	10 - 20 feet	Sapling	
						Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling	
						Jack Pine		Low	Variable	Sapling	
						White Pine		Trace	5 - 10 feet	Sapling	

9	4132 - Aspen, Jack Pine	Sapling Well	23.0	26	1-50	N/A	The trees in the stand look small for their age but a cut stump confirms the cutting record.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		5	Log	11		Serviceberry (Juneberry)		Trace	10 - 20 feet	Tall Shrub	
Northern Pin Oak		20	Pole/Log/Sap	9		White Pine		Medium	5 - 10 feet	Sapling	
Jack Pine		20	Pole/Sapling	6		Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub	
Red Pine		5	Pole/Sapling	5		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub	
Choke Cherry		1	Sapling	2							
White Pine		5	Pole/Sapling	6							
Quaking Aspen		32	Sapling	3	26						
Balsam Fir		2	Pole	6							

10	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	3.5	17	1-50	N/A	This stand is similar in composition to stand 81, adjacent south of the red pine plantation. The jack pine heavy portion west of the trail resembles stand 102 south of the pine plantation along Tomahawk Creek. Most probably the pine plantation covers the same kind of site as stands 10 and 81 with pine cover currently interrupting what probably would've been a larger stand had it not been planted.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		5	Pole/Sapling	6		Pennsylvania Sedge		Medium	Unspecified	Non-Wood	
Black/Red (Hybrid) Oak		5	Sapling	2	17	Blueberry/Bilberry/Cranberry		Medium	< 5 feet	Tall Shrub	
Red Pine		3	Sapling/Pole	3		Balsam Fir		Trace	< 5 feet	Seeding	
Jack Pine		30	Pole/Sapling	6		Northern Pin Oak		Low	< 5 feet	Seeding	
Northern Pin Oak		42	Sapling/Pole	4	17						
Choke Cherry		10	Sapling	3							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11 3102 - Grass Nonstocked 20.9 Immature No M-33 and its grassy shoulder in the right of way.

Sub-Canopy Species	Density	Avg. Height	Size
Big Bluestem	Low	Unspecified	Non-Wood
Red Pine	Trace	Variable	Log
Bigtooth Aspen	Trace	5 - 10 feet	Sapling
Northern Pin Oak	Low	>20 feet	Log
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Jack Pine	Low	>20 feet	Pole
Cladonia (Reindeer moss)	Low	Unspecified	Non-Wood
Little Bluestem	Medium	Unspecified	Non-Wood
Quaking Aspen	Trace	>20 feet	Pole
Bigtooth Aspen	Low	>20 feet	Pole

12 42110 - Planted Red Pine Sawtimber Well 16.5 65 111-140 N/A Thinned 2019. This stand probably interrupts what probably would've been a larger mixed deciduous stand had it not been planted. See notes in stand 10.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Pole/Log	8	
Jack Pine	1	Pole	6	
Red Pine	94	Log/Pole	10	65

Sub-Canopy Species	Density	Avg. Height	Size
Pennsylvania Sedge	Medium	Unspecified	Non-Wood
White Pine	Trace	< 5 feet	Seeding
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Northern Pin Oak	Trace	< 5 feet	Seeding
Bigtooth Aspen	Low	Variable	Sapling
Beech	Trace	< 5 feet	Seeding
Cherry (spp.)	Trace	< 5 feet	Tall Shrub

14 3102 - Grass Nonstocked 2.0 Immature Managed Opening Probably an old well opening.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Sedges/Grasses	Full	Unspecified	Non-Wood
Sweet Fern	Low	< 5 feet	Tall Shrub
Spotted Knapweed	High	Unspecified	Non-Wood

15 4131 - Aspen, Oak Sapling Medium 44.3 5 Immature N/A There is a good amount of browse on stand margins. The stand is doing well despite its challenges.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Sapling	1	
White Pine	7	Sapling	1	
Red Pine	1	Sapling	1	
Quaking Aspen	10	Sapling	1	
Northern Pin Oak	10	Sapling	1	
Jack Pine	2	Sapling	1	
Bigtooth Aspen	35	Sapling	1	5
Red Maple	15	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Pennsylvania Sedge	Medium	Unspecified	Non-Wood
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Sweet Fern	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 4311 - Pine, Aspen Mix Poletimber Medium 30.9 67 51-80 N/A A highly variable, patchy stand with generally poor quality trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	20	Log/Pole	11		White Pine	Low	Variable	Sapling
Red Pine	15	Log/XLog	14		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Jack Pine	20	Pole/Log	8	67	Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Quaking Aspen	20	Pole/Log	9	67	Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Bigtooth Aspen	5	Pole/Log	9		Northern Pin Oak	Medium	10 - 20 feet	Sapling
Red Maple	5	Pole/Log	8		Red Pine	Trace	5 - 10 feet	Sapling
White Pine	10	Log/Pole	12		Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub
Black Cherry	5	Pole	6		Red Maple	Trace	Variable	Sapling

17 622 - Lowland Shrub Nonstocked 35.5 Immature No Tomahawk Creek

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Medium	5 - 10 feet	Tall Shrub
Meadowsweet	Medium	< 5 feet	Tall Shrub
Willow spp.	Medium	5 - 10 feet	Tall Shrub
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Cattail spp.	Low	Unspecified	Non-Wood
Jack Pine	Low	Variable	Sapling

18 4199 - Other Mixed Upland Deciduous Sapling Medium 35.0 16 1-50 N/A Scattered log size northern pin oak and pole-log quaking aspen especially in the north. Brushy. Ugly stand. The center is nicer, with mainly scrub oak, jack pine, and red maple but very dense invasive honeysuckle brush surrounding.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Sapling	2		Honeysuckle (spp.)	High	5 - 10 feet	Tall Shrub
Northern Pin Oak	28	Sapling	2	16	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Pine	2	Sapling/Pole	4		Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
White Pine	5	Pole/Sapling	6		Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Red Maple	27	Sapling/Pole	3		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
White Oak	5	Sapling	3		Sweet Fern	Medium	< 5 feet	Tall Shrub
Quaking Aspen	15	Sapling	3	16				
Black Cherry	7	Sapling	3					
Bigtooth Aspen	1	Sapling	2					

19 310 - Herbaceous Openland Nonstocked 23.1 Immature No Powerline right of way.

Sub-Canopy Species	Density	Avg. Height	Size
Big Bluestem	Trace	Unspecified	Non-Wood
Sweet Fern	Medium	< 5 feet	Tall Shrub
Red Pine	Trace	5 - 10 feet	Sapling
Mixed Sedges/Grasses	Full	Unspecified	Non-Wood
Little Bluestem	Low	Unspecified	Non-Wood
White Pine	Trace	10 - 20 feet	Sapling
Northern Pin Oak	Trace	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20	4139 - Aspen, Mixed Deciduous	Sapling Well	33.5	14	Immature	N/A	Portions of the stand near the old landing in the north are dense with invasive honeysuckle.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Pole/Sapling	5		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Red Maple	5	Sapling	2		Pennsylvania Sedge	Medium	Unspecified	Non-Wood
Bigtooth Aspen	33	Sapling	2	14	Big Bluestem	Low	Unspecified	Non-Wood
Quaking Aspen	25	Sapling	2		Sweet Fern	Low	< 5 feet	Tall Shrub
Jack Pine	2	Sapling	2		Alder	Trace	5 - 10 feet	Tall Shrub
Northern Pin Oak	15	Sapling/Pole	3		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
White Pine	8	Sapling/Pole	4		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Choke Cherry	5	Sapling	3		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Balsam Fir	2	Sapling/Pole	4		Hazelnut (Beaked)	Trace	5 - 10 feet	Tall Shrub

21	4199 - Other Mixed Upland Deciduous	Sapling Medium	40.6	17	Immature	N/A	Browse is common throughout the area but this stand has regenerated to at least a moderate stocking.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Choke Cherry	5	Sapling	1		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	33	Sapling	3	17	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Balsam Poplar	1	Sapling	2	17	Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Northern Pin Oak	15	Sapling	3	17	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Maple	13	Sapling	2		Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	3					
White Pine	15	Sapling	3					
Jack Pine	2	Sapling	2					
Bigtooth Aspen	8	Sapling	2	17				
White Oak	3	Sapling	1					

22	4131 - Aspen, Oak	Sapling Medium	50.7	6	Immature	N/A	Heavy browse to maple, often mowed to under 3'. Nice patch of natural red and white pine regen in the northeast. Fair amount of free to grow oak. As with a couple other areas in the compartment, browse pressure on oak seems to have been given a reprieve. It may be because of the large clear cut to the north drawing browse pressure away. There may be more free to grow oak than expected in the future.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	25	Sapling	1	6	White Pine	Trace	< 5 feet	Seeding
White Pine	5	Sapling	1		Sweet Fern	Low	< 5 feet	Tall Shrub
Black Cherry	5	Sapling	1	6	Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Red Pine	2	Sapling	1		Red Maple	Medium	< 5 feet	Seeding
Bigtooth Aspen	58	Sapling	1	6				
Red Maple	5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 3102 - Grass Nonstocked 4.0 Immature Managed Opening Invasive honeysuckle in north.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	>20 feet	Sapling
Sweet Fern	Medium	< 5 feet	Tall Shrub
Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Cherry (spp.)	Trace	10 - 20 feet	Tall Shrub
Big Bluestem	Medium	Unspecified	Non-Wood
Little Bluestem	Low	Unspecified	Non-Wood

24 42210 - Natural Red Pine Sawtimber Well 3.1 84 111-140 N/A Area retention for the harvest in stand 31, soon to be replanted.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	20	Pole	9	
Red Pine	80	Log	12	84

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Medium	5 - 10 feet	Sapling
Red Pine	Trace	< 5 feet	Seeding
White Pine	Trace	5 - 10 feet	Sapling
Beech	Trace	>20 feet	Sapling
Balsam Fir	Trace	>20 feet	Sapling
White Oak	Trace	10 - 20 feet	Sapling
Red Maple	Trace	>20 feet	Sapling

25 42111 - Planted Red Pine, Mixed Deciduous Poletimber Well 7.9 34 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole/Sapling	5	
Jack Pine	8	Pole/Sapling	6	
Red Maple	5	Sapling/Pole	4	
Northern Pin Oak	5	Sapling/Pole	4	
Red Pine	72	Pole/Sapling	6	34
Bigtooth Aspen	5	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Huckleberry	Low	< 5 feet	Tall Shrub
Hawthorn (spp.)	Trace	Variable	Tall Shrub
Cherry (spp.)	Low	Variable	Tall Shrub
Honeysuckle (spp.)	Low	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub

26 3102 - Grass Nonstocked 2.0 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	< 5 feet	Seeding
Big Bluestem	Medium	Unspecified	Non-Wood
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Spotted Knapweed	Medium	Unspecified	Non-Wood
Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
White Pine	Trace	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 4199 - Other Mixed Upland Deciduous Sawtimber Well 53.7 107 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log/Pole	10		Bigtooth Aspen	Low	Variable	Sapling
White Pine	3	Pole/Log	8		White Pine	Low	5 - 10 feet	Seeding
Jack Pine	2	Pole	7		Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub
Northern Pin Oak	20	Log/Pole	12	100	Jack Pine	Low	Variable	Sapling
Red Pine	5	Log	13		Cherry (spp.)	Low	5 - 10 feet	Tall Shrub
Red Maple	15	Pole/Log	8		Northern Pin Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen	20	Log/Pole	11	60	Red Maple	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	30	Log	13	107	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub

28 122 - Road/Parking Lot Nonstocked 10.2 Unspecified No CR-634, native surface and gravel, grassy shoulders with saplings.

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	Variable	Sapling
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood

29 4191 - Mixed Upland Deciduous with Conifer Sapling Poor 12.3 22 1-50 N/A Aerial imagery from Sept 1952 shows this as a relatively open area, or at least an area with few large-crowned trees. Cut stumps of sapling red maple and pin oak show an age of about 22 years old. Widely spaced saplings with a good amount of brush, mostly invasive honeysuckle, between. A few pole jack pine. A few rare log size trees as well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Sap/Log	7		Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Red Maple	20	Sapling/Pole	4	22	White Pine	Low	10 - 20 feet	Sapling
Quaking Aspen	15	Sapling/Pole	4		Honeysuckle (spp.)	High	5 - 10 feet	Tall Shrub
Northern Pin Oak	40	Sapling/Pole	4	22	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Jack Pine	10	Sapling	2		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub

30 310 - Herbaceous Openland Nonstocked 2.1 Unspecified Managed Opening This stand will be rolled into the future planting site with stand 29 and 82.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	>20 feet	Sapling
Cherry (spp.)	Low	10 - 20 feet	Tall Shrub
Sweet Fern	Medium	< 5 feet	Tall Shrub
Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub
Northern Pin Oak	Low	10 - 20 feet	Sapling
Jack Pine	Low	10 - 20 feet	Sapling
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Spotted Knapweed	Medium	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
31	3103 - Rubus-Fern	Nonstocked	30.5	0	Immature	4211 - Planted Red Pine	Initial planting completed 4/29/2024 with 1-0 PRT Red Pine at ~889 TPA. Avg furrow spacing is 8.1 ft. Herbicide was applied via skidder in July of 2023. Trenching for the planting of red pine was completed on 5/21/22. Cut 4/2019 May need to roller chop areas with advanced aspen and red maple regeneration. Roller chopped 4/25/21					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Sedges/Grasses	Full	Unspecified	Non-Wood	
								Cherry (spp.)	Low	5 - 10 feet	Tall Shrub	
								Red Pine	Trace	< 5 feet	Seeding	
Jack Pine	Low	< 5 feet	Seeding									
32	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	11.5	5	Immature	N/A	Split from the stand to the east, well stocked aspen saplings (100 A3), due to composition shift. The stand currently is at the lower height threshold for a forested stand. Jack pine is the majority species but northern pin oak stump sprouts will probably fill in and exceed the browse height to become free to grow in the future. Northern pin oak stump sprouts that are free to grow make up about 15% of the canopy layer at present.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	5	Sapling	1	
								White Pine	2	Sapling	1	
								Red Pine	1	Sapling	1	
								Jack Pine	57	Sapling	1	5
								Northern Pin Oak	15	Sapling	1	
								Black Cherry	5	Sapling	1	
								Bigtooth Aspen	15	Sapling	1	
Sub-Canopy Species	Density	Avg. Height	Size									
Sweet Fern	Low	< 5 feet	Tall Shrub									
Mixed Sedges/Grasses	High	Unspecified	Non-Wood									
Red Maple	Low	< 5 feet	Sapling									
33	310 - Herbaceous Openland	Nonstocked	4.3		Unspecified	Managed Opening	The old Onaway dump. It was the location of a couple fires in early 1980s. Double plow line encircles this opening in neighboring stands. Invasive honeysuckle is in the opening and spreading into nearby stands.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sweet Fern	Low	< 5 feet	Tall Shrub	
								Little Bluestem	Low	Unspecified	Non-Wood	
								Mixed Sedges/Grasses	High	Unspecified	Non-Wood	
								Big Bluestem	Low	Unspecified	Non-Wood	
								Cherry (spp.)	Low	10 - 20 feet	Tall Shrub	
								Juniper	Trace	< 5 feet	Tall Shrub	
								White Pine	Trace	5 - 10 feet	Sapling	
								Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub	
34	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.2	110	111-140	N/A	Small stand. Patchy. Center contains about 100 year old red and white pine, the east contains oak of about the same age (estimated), and the west contains some mature aspen (estimated 60 years old). Young white pine, released probably about 14 years ago, is common especially on the stand margins.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	50	Log	16	110
								Red Maple	2	Pole/Sapling	5	
								Northern Pin Oak	20	Log/Pole	12	
								Bigtooth Aspen	8	Log/Pole	10	
								Red Pine	20	Log	15	71
								Sub-Canopy Species	Density	Avg. Height	Size	
								Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub	
								Red Maple	Low	>20 feet	Sapling	
								Northern Pin Oak	Low	10 - 20 feet	Sapling	
								Bigtooth Aspen	Low	< 5 feet	Sapling	
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub									
White Pine	High	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 42120 - Planted Jack Pine Sapling Well 18.1 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Sapling	3		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Northern Pin Oak	8	Sapling	1		Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Jack Pine	80	Sapling/Pole	4	25				
White Oak	2	Pole	7					
Red Pine	2	Log	12					
Choke Cherry	3	Sapling	2					

36 4310 - Pine, Oak Mix Sapling Well 12.0 16 Immature N/A Pine becomes more common as one travels eastward.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Sapling	1		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Jack Pine	25	Sapling	1		Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Choke Cherry	2	Sapling	2					
Northern Pin Oak	28	Sapling/Pole	4	16				
Red Maple	1	Sapling	2					
White Oak	2	Sapling	3					
White Pine	15	Pole/Sapling	6					
Bigtooth Aspen	20	Sapling/Pole	2	16				
Red Pine	2	Pole	6					

37 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 13.6 63 111-140 N/A Planting records for the area indicate planting occurred in 1940 after the Canada Creek Fire (1939). This stand seems to relate more to a more recent planting record from 1959 however.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Red Pine	70	Log	12	63	Red Maple	Low	Variable	Sapling
White Oak	2	Log	13		Red Pine	Trace	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	13	Log/Pole	11		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Maple	5	Pole	6		Cherry (spp.)	Trace	10 - 20 feet	Sapling

38 4199 - Other Mixed Upland Deciduous Sapling Poor 11.7 5 Immature N/A Stand margins are moderate to well stocked with big tooth aspen in the west and northern pin oak and jack pine elsewhere. The center is of low stocking with jack pine, cherry, quaking aspen and white pine. Cherry and jack pine keep the stand barely forested there.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Sapling	1		Big Bluestem	Trace	Unspecified	Non-Wood
Quaking Aspen	3	Sapling	1		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	20	Sapling	1	5	Sweet Fern	Low	< 5 feet	Tall Shrub
Willow spp.	2	Sapling	1		Little Bluestem	Trace	Unspecified	Non-Wood
Northern Pin Oak	25	Sapling	1	5	Pennsylvania Sedge	Medium	Unspecified	Non-Wood
Serviceberry (Juneberry)	5	Sapling	1					
Black Cherry	23	Sapling	1					
Jack Pine	15	Sapling	1					
Red Maple	5	Sapling	1					

Much of the pin oak seems to have escaped significant browse this past winter, possibly resulting in an increase in free to grow oak in the future.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 11.4 84 81-110 N/A Beaver damage along pond banks.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Log/Pole	10		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Red Pine	20	Log/Pole	13		Huckleberry	Low	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	22	Log	14	84	Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Red Maple	15	Pole/Log	8	84	Red Maple	Medium	Variable	Sapling
Beech	1	Pole	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	8		Cherry (spp.)	Low	< 5 feet	Sapling
Balsam Fir	3	Pole	7		White Pine	High	Variable	Sapling
White Pine	15	Log/Pole	11					
Quaking Aspen	7	Log/Pole	10					

40 500 - Water Nonstocked 6.4 Unspecified No Pond possibly associated with sinkholes nearby.

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Low	5 - 10 feet	Tall Shrub
Mixed Sedges/Grasses	Low	Unspecified	Non-Wood

41 42111 - Planted Red Pine, Mixed Deciduous Poletimber Well 21.5 34 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Pole	6		Wintergreen	Medium	< 5 feet	Tall Shrub
Red Maple	5	Sapling	3					
Black Cherry	2	Sapling	4					
Bigtooth Aspen	3	Pole/Sapling	5					
Quaking Aspen	7	Pole/Sapling	5					
Red Pine	68	Pole/Sapling	6	34				
Black/Red (Hybrid) Oak	13	Pole/Sapling	5					

42 4131 - Aspen, Oak Sawtimber Well 45.5 70 81-110 N/A Generally an even mix of aspen and oak in south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	13	Pole	7		Wintergreen	High	< 5 feet	Tall Shrub
Quaking Aspen	5	Pole	8		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	37	Log/Pole	10	70	White Pine	Low	Variable	Sapling
White Pine	2	Log/Pole	10		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	40	Log/Pole	12	110	Cherry (spp.)	Trace	10 - 20 feet	Tall Shrub
Red Pine	3	Log/Pole	13		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
					Red Maple	Full	< 5 feet	Seeding
					Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
					Black/Red (Hybrid) Oak	Low	Variable	Sapling
					Beech	Trace	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
43	4130 - Aspen	Sapling Well	34.3	14	Immature	N/A	A patch of oak was left in the southwest. Beaver damage extends from the pond and swamp in the northeast.																																																																										
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44	4131 - Aspen, Oak	Sapling Medium	7.6	5	Immature	N/A	The southeast is poor to low stocking, mostly in jack pine and cherry. Oak seems to have largely escaped browse this dormant season which may increase the future proportion of free to grow oak.																																																																										
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45	4133 - Aspen, Mixed Pine	Poletimber Well	61.4	41	51-80	N/A	While some of the stand margins look as if they were cut about 24 years ago, the interior reflects the roughly 40 year old cut record. Honeysuckle is present in the northeast abutting the wetland and jack pine. Patches of pine, aspen and open ground intermix in the west.																																																																										
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46	4310 - Pine, Oak Mix	Poletimber Well	7.7	67	51-80	N/A	The stand seems to be a mix of ages. Aspen looks about 30 in some places and about 60 years old in others. Jack pine has senesced from the center of the stand releasing northern pin oak, red maple, white pine and cherry. The oldest pine and oak are about 100 years old.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47 4125 - Black, N. Pin Oak Poletimber Well 3.8 93 51-80 N/A Probably about the same age as the older trees in the stand to the west (52 MD9), however it's almost pure scrub oak whereas the other stand is a mix of species pockets generally growing on a better site.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	13	Pole	7		Jack Pine	Low	10 - 20 feet	Sapling
White Oak	3	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	2	Pole	6		White Oak	Low	10 - 20 feet	Sapling
Red Maple	1	Sapling	3		Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Northern Pin Oak	73	Pole/Log	8	93	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Red Pine	2	Pole	7					
White Pine	2	Log	10					
Choke Cherry	3	Sapling	4					
Black Spruce	1	Pole	6					

48 622 - Lowland Shrub Nonstocked 2.5 Unspecified No May be associated with the apparent sinkhole on private land to the east.

Sub-Canopy Species	Density	Avg. Height	Size
Sphagnum Moss	High	Unspecified	Non-Wood
Jack Pine	Low	>20 feet	Sapling
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Leatherleaf	High	< 5 feet	Tall Shrub

49 6112 - Lowland Aspen Poletimber Medium 7.1 72 51-80 N/A This stand appears to have been left as a buffer along Long Lake and between recent timber sales. Evidence of recent beaver activity. The stand appears to be more or less a drainage between uplands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole/Log/Sap	9	72	White Pine	Low	Variable	Sapling
Bigtooth Aspen	5	Pole/Log/Sap	8		Meadowsweet	Trace	< 5 feet	Tall Shrub
Balsam Fir	10	Pole	6		Tag Alder	Medium	Variable	Tall Shrub
Black Spruce	5	Log	10		Leatherleaf	Low	< 5 feet	Tall Shrub
Red Pine	5	Log	12		Black Cherry	Low	>20 feet	Sapling
Jack Pine	15	Log/Pole	10	66	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
White Pine	5	Pole/Sapling	5		Red Maple	Medium	>20 feet	Sapling
Red Maple	5	Pole	6		Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
					Wintergreen	High	< 5 feet	Tall Shrub
					Beech	Trace	5 - 10 feet	Sapling
					Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
					Gray Dogwood	Low	5 - 10 feet	Tall Shrub
					Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50 4125 - Black, N. Pin Oak Sapling Medium 1.9 26 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	7	Sapling/Pole	4	
Jack Pine	10	Sapling/Pole	4	
Choke Cherry	2	Sapling	2	
Northern Pin Oak	63	Sapling/Pole	4	26
Quaking Aspen	15	Sapling/Pole	3	26
Serviceberry (Juneberry)	3	Sapling	1	

51 4131 - Aspen, Oak Poletimber Well 13.0 60 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	29	Log/Pole	11		Red Maple	Low	< 5 feet	Sapling
White Pine	5	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	30	Pole/Log	8	60	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	10	Pole/Log	8	59	Leatherleaf	Low	< 5 feet	Tall Shrub
Paper Birch	2	Pole	8		Mixed Sedges/Grasses	Low	Unspecified	Non-Wood
White Oak	2	Log	14		Beech	Trace	10 - 20 feet	Sapling
Red Pine	2	Log	14		White Pine	Medium	5 - 10 feet	Sapling
Red Maple	20	Pole/Log	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub

Beavers have backed up channels in the middle of the stand. Previous inventory notes say this stand was left as a wetland and pond buffer.

52 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 18.6 93 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	41	Log/Pole	11	93	White Pine	Low	Variable	Sapling
White Pine	5	Pole/Log	8		White Oak	Low	10 - 20 feet	Sapling
Jack Pine	10	Pole	7		Cherry (spp.)	Low	5 - 10 feet	Sapling
White Oak	5	Log/Pole	11		Wintergreen	High	< 5 feet	Tall Shrub
Red Pine	5	Log/Pole	13		Red Pine	Low	< 5 feet	Sapling
Balsam Fir	2	Pole	6		Red Maple	Low	>20 feet	Sapling
Quaking Aspen	7	Log/Pole	12		Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
Black/Red (Hybrid) Oak	5	Log	15		Northern Pin Oak	Medium	Variable	Sapling
Bigtooth Aspen	20	Log	13	58				

A mixed and very patchy stand. There are a couple good bigtooth aspen clones.

53 6121 - Tamarack Sapling Well 5.1 60 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	85	Sapling/Pole	4	60	Sphagnum Moss	Medium	Unspecified	Non-Wood
Black Spruce	10	Sapling	3		Leatherleaf	Low	< 5 feet	Tall Shrub
Balsam Fir	5	Sapling	2		Mixed Sedges/Grasses	Low	Unspecified	Non-Wood
					Tag Alder	Full	Variable	Tall Shrub

Contiguous with Loon Lake muskeg ERA. There's a good deal of standing water. This stand is basically non-productive.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 19.9 34 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	70	Sapling/Pole	4	34
Black Cherry	3	Sapling	3	
Bigtooth Aspen	10	Pole/Sapling	5	
White Pine	5	Sapling/Pole	4	
Northern Pin Oak	10	Pole/Sapling	6	
White Oak	2	Sapling	1	

55 500 - Water Nonstocked 0.6 Immature No Sinkhole.

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	>20 feet	Pole
White Pine	Low	>20 feet	Sapling
Northern Pin Oak	Low	>20 feet	Sapling
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood

56 4131 - Aspen, Oak Poletimber Well 5.1 38 1-50 N/A Little of the stand is operable because of site conditions for Long Lake, a sinkhole, and slope concerns leading to the wetland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3		Wintergreen	High	< 5 feet	Tall Shrub
Bigtooth Aspen	45	Pole/Sapling	6	38	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Northern Pin Oak	20	Pole/Sapling	5		White Pine	Low	< 5 feet	Sapling
White Pine	8	Pole/Log	8		Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
Red Pine	2	Pole/Sapling	7		Northern Pin Oak	Low	10 - 20 feet	Sapling
Quaking Aspen	20	Pole/Sapling	5		Cherry (spp.)	Low	10 - 20 feet	Tall Shrub

57 622 - Lowland Shrub Nonstocked 7.1 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Alder	High	5 - 10 feet	Tall Shrub
Meadowsweet	Low	< 5 feet	Tall Shrub
Cattail spp.	Low	Unspecified	Non-Wood
Mixed Sedges/Grasses	High	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59 4130 - Aspen Poletimber Well 12.0 38 51-80 N/A Beavers cleared about 50 feet of Aspen next to the wetland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	2	Pole/Sapling	7		Cherry (spp.)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	73	Pole/Sapling	6	38	Alder	Trace	5 - 10 feet	Tall Shrub
Red Maple	5	Sapling/Pole	3		Wintergreen	High	< 5 feet	Tall Shrub
Red Pine	3	Log/Pole	10		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	2	Log/Pole	11		White Pine	Low	10 - 20 feet	Sapling
Quaking Aspen	15	Pole/Sapling	6		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub

60 4133 - Aspen, Mixed Pine Sawtimber Well 7.9 70 111-140 N/A This stand was left as a buffer along Long Lake when adjacent timber sales were harvested. There is a natural pine patch in the east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	3	Pole/Log	8		White Pine	Low	< 5 feet	Sapling
Scotch Pine	1	Pole	9		Red Maple	Medium	Variable	Sapling
Quaking Aspen	3	Log/Pole	10		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Red Maple	8	Pole/Log	8		Huckleberry	Low	< 5 feet	Tall Shrub
Balsam Fir	1	Pole	6		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	3	Log	13		Wintergreen	Medium	< 5 feet	Tall Shrub
Black Spruce	1	Log	10		Tag Alder	Low	Variable	Tall Shrub
White Oak	2	Pole/Log	9					
Bigtooth Aspen	50	Log/Pole	11	70				
Northern Pin Oak	3	Log/Pole	11					
Red Pine	12	Log/Pole	13					
White Pine	12	Log/Pole	13	85				
Paper Birch	1	Pole	8					

61 4130 - Aspen Sapling Well 10.2 26 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Sapling/Pole	4		Wintergreen	High	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	5	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
White Oak	2	Pole/Sapling	6		Sweet Fern	Low	< 5 feet	Tall Shrub
Northern Pin Oak	5	Sapling/Pole	3		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
White Pine	10	Pole	6					
Bigtooth Aspen	15	Sapling/Pole	4	26				
Quaking Aspen	56	Sapling	3	26				
Red Maple	5	Sapling	2					

62 500 - Water Nonstocked 16.0 No Long Lake



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63	310 - Herbaceous Openland	Nonstocked	1.6	Sub-Canopy Species			
				Mixed Sedges/Grasses	Full	Unspecified	Non-Wood
				Black Cherry	Low	10 - 20 feet	Tall Shrub
				Quaking Aspen	Low	Variable	Sapling

64	622 - Lowland Shrub	Nonstocked	11.2	Immature	No	Narrow areas mostly contain alder, while wide spots are mostly mixed sedges.	Sub-Canopy Species			
							Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
							Willow spp.	Medium	5 - 10 feet	Tall Shrub
							Leatherleaf	Medium	< 5 feet	Tall Shrub
							Alder	Medium	5 - 10 feet	Tall Shrub
							Meadowsweet	Low	< 5 feet	Tall Shrub
							White Pine	Low	>20 feet	Sapling

65	4319 - Mixed Upland Forest	Sawtimber Well	1.2	60	81-110	N/A
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66	500 - Water	Nonstocked	5.0	Unspecified	No	Open water with emergent fringe.	Sub-Canopy Species			
							Leatherleaf	Low	< 5 feet	Tall Shrub
							Mixed Sedges/Grasses	Low	Unspecified	Non-Wood

67	4133 - Aspen, Mixed Pine	Sawtimber Well	9.4	63	51-80	N/A	The aspen look like they're declining. The stand is brushy and patchy with some rare alder in the west. New stand added.	Canopy Species			
								Red Pine	2	Log/Pole	13
								White Pine	10	Pole/Log	9
								Jack Pine	10	Pole	8
								Black/Red (Hybrid) Oak	5	Log/Pole	11 87
								Northern Pin Oak	5	Log	12
								White Spruce	1	Log	14
								Bigtooth Aspen	15	Log/Pole	11 63
								Balsam Fir	2	Pole	6
								Quaking Aspen	45	Log/Pole	10 63
								Red Maple	5	Pole/Log	8
								Sub-Canopy Species			
								Red Maple	Medium	10 - 20 feet	Sapling
								Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
								Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
White Oak	Trace	10 - 20 feet	Sapling								
Jack Pine	Low	< 5 feet	Sapling								
Gray Dogwood	Low	5 - 10 feet	Tall Shrub								
Cherry (spp.)	Low	Variable	Sapling								
Northern Pin Oak	Low	10 - 20 feet	Sapling								
White Pine	Medium	10 - 20 feet	Sapling								
Alder	Low	5 - 10 feet	Tall Shrub								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68 6121 - Tamarack Poletimber Well 6.4 114 51-80 N/A Too wet. The east third is non-productive.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	90	Pole	7	114	Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Balsam Fir	2	Pole	6		Red Maple	Low	>20 feet	Sapling
Red Maple	5	Pole	7		Tag Alder	High	< 5 feet	Tall Shrub
Paper Birch	3	Pole	6		White Pine	Low	Variable	Sapling
					Leatherleaf	Medium	< 5 feet	Tall Shrub
					Sphagnum Moss	High	Unspecified	Non-Wood
					Black Spruce	Trace	Variable	Sapling

69 4130 - Aspen Sapling Well 15.6 15 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Sapling	2	15	Witch Hazel	Low	< 5 feet	Tall Shrub
White Oak	1	Sapling	2		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Black Cherry	2	Sapling	2					
Red Pine	2	Sapling	1					
White Pine	5	Log/Pole	10					
Bigtooth Aspen	55	Sapling	2	15				
Red Maple	5	Sapling	2					
Black/Red (Hybrid) Oak	15	Log	12	89				

70 4130 - Aspen Sapling Well 14.4 6 Immature N/A Hybrid oak and aspen leave trees remain under 10BA. The north 3-5 acres shows a composition shift to red maple and oak and poorer stocking.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	3	Sapling	1		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
White Oak	2	Sapling	1		Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Quaking Aspen	10	Sapling	1	6				
White Pine	5	Sapling	2					
Bigtooth Aspen	55	Sapling	1	6				
Red Maple	15	Sapling	2					
Northern Pin Oak	5	Sapling	1					
Black Cherry	5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71	4131 - Aspen, Oak	Sapling Well	14.7	26	1-50	N/A	This stand should be a pole stand in the next inventory. There are a few open patches with more white oak than normal. There also is invasive honeysuckle.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		10	Sapling	2		Red Maple		Medium	< 5 feet	Seeding	
White Pine		3	Sapling/Pole	4		White Pine		Low	< 5 feet	Seeding	
Serviceberry (Juneberry)		2	Sapling	1		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub	
Black Cherry		5	Sapling	1							
Bigtooth Aspen		65	Sapling/Pole	3	26						
Red Maple		5	Sapling	1							
White Oak		5	Sapling	1							
Northern Pin Oak		5	Sapling	2							

72	4125 - Black, N. Pin Oak	Sawtimber Medium	20.0	83	51-80	N/A	Site quality improves to the south. Oak densities are highly variable from OBA to about 100BA.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		96	Log/Pole	11	83	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
White Oak		2	Pole/Log	9		White Pine		Trace	10 - 20 feet	Sapling	
Red Maple		2	Pole	6		Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	
						Bigtooth Aspen		Medium	>20 feet	Sapling	
						Hazelnut (Beaked)		Trace	5 - 10 feet	Tall Shrub	
						Wintergreen		High	< 5 feet	Tall Shrub	
						Red Maple		High	Variable	Sapling	

73	4130 - Aspen	Poletimber Well	61.7	38	81-110	N/A	Site quality generally looks poorer in the south and on high spots. It's a nice stand for its age. There's more oak to the north and west and some very ice aspen leading to Long Lake.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Pole	8		Red Maple		Medium	Variable	Sapling	
Red Maple		3	Pole/Sapling	5		Wintergreen		High	< 5 feet	Tall Shrub	
Red Pine		2	Log	15		White Oak		Trace	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		15	Pole	7		Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub	
Quaking Aspen		5	Pole/Sapling	5		White Pine		Trace	5 - 10 feet	Sapling	
Bigtooth Aspen		73	Pole/Sapling	6	38	Red Pine		Trace	5 - 10 feet	Sapling	
						Red Osier Dogwood		Trace	5 - 10 feet	Tall Shrub	
						Witch Hazel		Low	5 - 10 feet	Tall Shrub	

74	4130 - Aspen	Sapling Well	35.1	26	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		10	Sapling/Pole	3		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
White Pine		5	Sapling	3		Wintergreen		High	< 5 feet	Tall Shrub
Red Pine		1	Sapling	2		Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub
Paper Birch		2	Sapling	3		Witch Hazel		Low	5 - 10 feet	Tall Shrub
Red Maple		15	Sapling	3		White Pine		Low	Variable	Sapling
Quaking Aspen		15	Sapling/Pole	3	26	Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		52	Sapling/Pole	4	26					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75 622 - Lowland Shrub Nonstocked 30.1 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Meadowsweet	Medium	< 5 feet	Tall Shrub
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
White Pine	Low	5 - 10 feet	Sapling
Sphagnum Moss	High	Unspecified	Non-Wood
Cattail spp.	Low	Unspecified	Non-Wood
Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	Low	10 - 20 feet	Sapling
Jack Pine	Low	10 - 20 feet	Sapling

76 42290 - Natural Mixed Pine Poletimber Well 34.5 75 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Log/XLog	9	
Red Maple	5	Pole	7	
Red Pine	30	Log/Pole	11	62
Jack Pine	38	Pole	8	75
White Oak	2	Pole	8	
Northern Pin Oak	10	Pole	8	
Quaking Aspen	5	Pole	9	
Bigtooth Aspen	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Cladonia (Reindeer moss)	Low	Unspecified	Non-Wood
Huckleberry	Medium	< 5 feet	Tall Shrub
Wintergreen	Medium	< 5 feet	Tall Shrub
Northern Pin Oak	Medium	10 - 20 feet	Sapling
White Oak	Trace	10 - 20 feet	Sapling
Cherry (spp.)	Low	5 - 10 feet	Sapling
Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Beech	Trace	5 - 10 feet	Sapling

The hilltop in the south is dense with huckleberry. The slope facing the wetland in the stand's southeast is too steep and ends directly in the wetland. The clearcut in the compartment to the east (54123085) looks like a fully stocked natural mix of about 60% 1" pin oak and 40% 2" jack pine.

77 4130 - Aspen Sapling Well 15.4 15 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	80	Sapling	2	15
Northern Pin Oak	2	Sapling	2	15
Black/Red (Hybrid) Oak	8	Sapling	2	15
Red Maple	5	Sapling	2	
Quaking Aspen	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Wintergreen	High	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub

Perhaps about 10BA of log size northern pin and hybrid oak at 86 years old.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 6.7 60 1-50 N/A

Portions look maintained as by vehicles running over the area repeatedly or browse. Considerable elk sign in north. Aspen are low to medium quality, with a few different ages. 40, 60, and 80 years old by the looks of it.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	15	Log/Pole	10		Red Maple	Medium	>20 feet	Sapling
Quaking Aspen	25	Log/Pole	10	60	Jack Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log	13	75	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Red Pine	15	Log/Pole	11		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Red Maple	5	Pole	7		Sweet Fern	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	5	Log	12		Black Cherry	Trace	10 - 20 feet	Sapling
White Oak	5	Log/Pole	10		Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
White Pine	5	Log	12		Red Pine	Low	10 - 20 feet	Sapling
Jack Pine	15	Pole	8		White Pine	Low	Variable	Sapling

79 310 - Herbaceous Openland Nonstocked 3.2 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Trace	10 - 20 feet	Sapling
Cherry (spp.)	Low	10 - 20 feet	Tall Shrub
Northern Pin Oak	Low	10 - 20 feet	Sapling
Sweet Fern	Medium	< 5 feet	Tall Shrub
Big Bluestem	Low	Unspecified	Non-Wood
White Pine	Trace	>20 feet	Sapling
Red Pine	Trace	5 - 10 feet	Sapling
Mixed Sedges/Grasses	Full	Unspecified	Non-Wood
Bigtooth Aspen	Low	>20 feet	Sapling

80 310 - Herbaceous Openland Nonstocked 1.3 0 Immature No

Some non-native honeysuckle at the far western end.

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Trace	< 5 feet	Tall Shrub
Black Cherry	Low	Variable	Tall Shrub
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Big Bluestem	Low	Unspecified	Non-Wood
Little Bluestem	Low	Unspecified	Non-Wood
Amur Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Sweet Fern	Medium	< 5 feet	Tall Shrub
Jack Pine	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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81 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 9.4 14 Immature N/A

The same kind of site probably extended northward from here to the current pine plantation and the mixed deciduous adjacent to private property. See stand 10 for notes. The understory is dense with invasive honeysuckle around the old landing in the south. Stumps look like the previous stand contained more red and jack pine than present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Pole/Sapling	5		Sweet Fern	Low	< 5 feet	Tall Shrub
Red Maple	10	Sapling/Pole	4		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	2	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Quaking Aspen	5	Sapling	2	14	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
White Pine	8	Sapling/Pole	4		Pennsylvania Sedge	Medium	5 - 10 feet	Non-Wood
Northern Pin Oak	50	Sapling/Pole	3	14	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Jack Pine	15	Sapling	2					

82 4311 - Pine, Aspen Mix Poletimber Medium 11.2 67 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Log/Pole	12		Mixed Sedges/Grasses	Low	Unspecified	Non-Wood
Black Cherry	13	Sapling/Pole	4		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Northern Pin Oak	10	Pole	6		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	10	Pole	7		White Pine	Low	10 - 20 feet	Sapling
Balsam Fir	2	Pole	7		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Maple	5	Sapling/Pole	4		Sweet Fern	Low	< 5 feet	Tall Shrub
Jack Pine	30	Pole	9	67				

89 4199 - Other Mixed Upland Deciduous Sapling Well 37.0 28 1-50 N/A

Should be a pole stand in the next inventory cycle.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Northern Pin Oak	18	Sapling/Pole	4	28	Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	34	Sapling/Pole	4	28	Red Maple	Medium	< 5 feet	Sapling
Quaking Aspen	3	Sapling/Pole	4		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Bigtooth Aspen	13	Sapling/Pole	4		Northern Pin Oak	Low	5 - 10 feet	Sapling
Red Pine	2	Sapling	1					
Paper Birch	2	Sapling/Pole	4					
White Pine	8	Sapling/Pole	4					
White Oak	3	Sapling/Pole	4					
Red Maple	13	Sapling	3					
Serviceberry (Juneberry)	2	Sapling	1					

90 622 - Lowland Shrub Nonstocked 1.4 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	High	5 - 10 feet	Tall Shrub
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Meadowsweet	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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92 4133 - Aspen, Mixed Pine Sawtimber Well 7.1 57 111-140 N/A Fairly dense, mostly aspen area separated from the prior stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Pole	6		Wintergreen	Medium	< 5 feet	Tall Shrub
Red Pine	15	Log/Pole	10	54	Cherry (spp.)	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole	8	59	Red Pine	Low	Variable	Sapling
Northern Pin Oak	5	Pole	9		Northern Pin Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen	73	Log/Pole	10	57	White Pine	Low	Variable	Sapling
					Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
					Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling

93 42290 - Natural Mixed Pine Sawtimber Well 18.9 62 81-110 N/A The stand grades into the jack pine dominated pole stand to the west. Fairly large areas of almost pure red pine. All the pine is likely natural origin. Red pine occurs in about 2 ages: 100-120 year old log and large log "seed trees" and 60 year old progeny in log and pole size classes. Sometimes these ages occur together seemingly illustrating the natural origin of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Bigtooth Aspen	5	Pole/Log	8		Beech	Trace	< 5 feet	Sapling
White Oak	2	Log	11		Northern Pin Oak	Low	10 - 20 feet	Sapling
Northern Pin Oak	10	Pole/Log	8		White Oak	Trace	10 - 20 feet	Sapling
White Pine	3	Pole/Log	9		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Jack Pine	25	Pole	7	59	Cladonia (Reindeer moss)	Low	Unspecified	Non-Wood
Red Pine	50	Log/Pole	11	62	Wintergreen	Medium	< 5 feet	Tall Shrub
					Huckleberry	Low	< 5 feet	Tall Shrub
					White Pine	Low	Variable	Sapling
					Cherry (spp.)	Low	5 - 10 feet	Tall Shrub
					Red Pine	Low	10 - 20 feet	Sapling

94 622 - Lowland Shrub Nonstocked 9.8 Immature No Tomahawk creek corridor

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Jack Pine	Low	5 - 10 feet	Sapling
Sphagnum Moss	Medium	Unspecified	Non-Wood
Alder	Medium	5 - 10 feet	Tall Shrub
Willow spp.	Low	< 5 feet	Tall Shrub
Spiraea spp.	High	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
95	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	7.4	60	1-50	N/A	Younger aspen is about 26 years old. Older aspen is probably the same age as many of the jack pine, about 60. Trace legacy red pine. This stand was left as a stream buffer.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Jack Pine	63	Pole/Log	8	60	Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
		White Oak	5	Sapling/Pole	4		Northern Pin Oak	Low	10 - 20 feet	Sapling
		Red Maple	5	Sapling/Pole	4		Beech	Trace	5 - 10 feet	Sapling
		Northern Pin Oak	10	Sapling/Pole	4		Wintergreen	High	< 5 feet	Tall Shrub
		Quaking Aspen	10	Sapling	4	26	Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
		Balsam Fir	2	Pole	7		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
		Red Pine	5	Log/Pole	12					
100	4130 - Aspen	Sapling Well	10.8	5	Immature	N/A	This is a new stand split from the one to the west (32 MC2). They were a part of the same harvest completed in 2019. This area was moderate to well stocked sapling aspen where the stand to the west was a mix of jack pine and northern pin oak. Eastern portions of the two southern lobes tend to be well browsed however.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern Pin Oak	15	Sapling	1		Sweet Fern	Low	< 5 feet	Tall Shrub
		Black Cherry	5	Sapling	1		Mixed Sedges/Grasses	High	Unspecified	Non-Wood
		Quaking Aspen	30	Sapling	1		Red Maple	Low	< 5 feet	Sapling
		White Pine	2	Sapling	1					
		Red Pine	1	Sapling	1					
		Bigtooth Aspen	37	Sapling	1	5				
		Jack Pine	10	Sapling	1	5				
101	4311 - Pine, Aspen Mix	Sawtimber Well	3.1	100	81-110	N/A	Many red pine, often in dense patches, are probably at or near legacy status.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Bigtooth Aspen	5	Pole/Log/Sap	8		White Pine	Low	Variable	Sapling
		Quaking Aspen	15	Log/Pole	12	75	Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
		White Pine	15	Log/XLog/Pole	14		Balsam Fir	Trace	>20 feet	Sapling
		Red Pine	41	XLog/Log	18	100	Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
		White Oak	2	Pole	8					
		Northern Pin Oak	2	Pole	7					
		Red Maple	20	Log/Pole	10					
102	42220 - Natural Jack Pine	Poletimber Well	7.2	82	51-80	N/A	This small stand is probably a buffer for Tomahawk Creek left from a previous harvest.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern Pin Oak	5	Pole	7		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
		Bigtooth Aspen	10	Log/Pole	10		White Pine	Medium	10 - 20 feet	Sapling
		Quaking Aspen	5	Pole/Log	9		Huckleberry	Low	< 5 feet	Tall Shrub
		Red Maple	5	Pole/Sapling	5		Northern Pin Oak	Medium	10 - 20 feet	Sapling
		Red Pine	5	Log	13		Wintergreen	High	< 5 feet	Tall Shrub
		Jack Pine	70	Pole/Log	9	82	Red Pine	Trace	< 5 feet	Seeding
							White Oak	Trace	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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109 4125 - Black, N. Pin Oak Sawtimber Medium 13.3 86 1-50 N/A

This stand generally looks like sparse log oak canopy with sapling red maple, black cherry, and oak under the denser areas and aspen in the more open areas. Some canopy oak show die back

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	8	Pole/Log	9		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	90	Log	14	86	Witch Hazel	Low	< 5 feet	Tall Shrub
White Oak	2	Log	10		Red Maple	Medium	10 - 20 feet	Sapling
					Bigtooth Aspen	High	>20 feet	Sapling
					Black Cherry	Low	10 - 20 feet	Sapling
					White Pine	Low	10 - 20 feet	Sapling
					Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
					Red Pine	Trace	10 - 20 feet	Sapling

111 4125 - Black, N. Pin Oak Sawtimber Medium 11.4 84 81-110 N/A

The result of past species removal harvests.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	3	Pole	7		Bigtooth Aspen	Low	>20 feet	Sapling
Northern Pin Oak	15	Log	12	84	White Pine	Low	10 - 20 feet	Sapling
Red Pine	2	Log	14		Red Maple	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	80	Log/Pole	12	84	Jack Pine	Trace	10 - 20 feet	Sapling
					Wintergreen	High	< 5 feet	Tall Shrub
					Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
					Northern Pin Oak	Low	10 - 20 feet	Sapling

113 4133 - Aspen, Mixed Pine Poletimber Well 6.3 48 51-80 N/A

Stand buffers creek. Beaver activity in area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole/Sapling	6		White Pine	Low	10 - 20 feet	Sapling
Quaking Aspen	42	Pole	8	48	Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	5	Log/Pole	11		Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Red Maple	7	Log/Pole	10		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
White Spruce	2	Pole	8		Cherry (spp.)	Low	10 - 20 feet	Tall Shrub
Bigtooth Aspen	5	Log/Pole	10		Red Maple	Low	Variable	Sapling
Northern Pin Oak	3	Pole/Log	9		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Jack Pine	10	Pole	6					
Red Pine	12	Log	14					
Black/Red (Hybrid) Oak	12	Log	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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115 4191 - Mixed Upland Deciduous with Conifer Sapling Well 12.4 26 1-50 N/A A cut jack pine stump 37 years old shows rapid growth starting about 26 years ago. Honeysuckle is densest to the south along the trail.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling/Pole	3		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Pine	5	Pole/Sapling	5		Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Jack Pine	27	Pole/Sapling	6	26	Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	5	Pole/Sapling	6		White Pine	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Log		11				
Northern Pin Oak	20	Pole/Log/Sap		9				
Quaking Aspen	10	Sapling		3				26
Balsam Fir	2	Pole		6				
Choke Cherry	1	Sapling		2				

116 42290 - Natural Mixed Pine Sawtimber Well 6.7 96 111-140 N/A Left over pieces of other stands. Red pine has 110, 90, and 70 year old cohorts. Jack pine has 70 and 50 year old cohorts. Best left for aesthetics along M-33.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	4	Log	13	90	Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Jack Pine	23	Pole	7	74	Wintergreen	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	11	Log/Pole	11	69	White Pine	Medium	Variable	Sapling
Balsam Fir	1	Pole	8		Cladonia (Reindeer moss)	Low	Unspecified	Non-Wood
Quaking Aspen	4	Log/Pole	11		Honeysuckle (spp.)	Low	< 5 feet	Tall Shrub
Paper Birch	2	Pole	7		Northern Pin Oak	Medium	Variable	Sapling
Red Pine	35	Log/Pole	13	96	Balsam Fir	Trace	10 - 20 feet	Sapling
Red Maple	4	Pole/Sapling	6		Mixed Sedges/Grasses	Low	Unspecified	Non-Wood
White Pine	16	Log/Pole/XLog	13		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
					Red Maple	Trace	10 - 20 feet	Sapling
					Red Pine	Trace	10 - 20 feet	Sapling
					Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
					Trailing Arbutus	Trace	< 5 feet	Tall Shrub
					Cherry (spp.)	Trace	5 - 10 feet	Tall Shrub
					Jack Pine	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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117 42220 - Natural Jack Pine Poletimber Medium 18.9 67 81-110 N/A

Current ages for red pine and jack pine support previous inventory. Red pine in the north probably planted along with the plantation across the creek. Stand buffers creek. Beaver activity in area. Stand includes a jack pine island cut off by Tomahawk Creek on either side.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log	8		Jack Pine	Medium	< 5 feet	Sapling
Black Cherry	2	Pole	6		White Pine	Trace	Variable	Sapling
Bigtooth Aspen	3	Pole	8		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Balsam Poplar	2	Pole/Sapling	5		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Northern Pin Oak	5	Pole	6		Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Jack Pine	63	Pole/Log	9	67	Red Maple	Trace	Variable	Sapling
Balsam Fir	2	Pole/Sapling	6		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Log/Pole	12		Northern Pin Oak	Low	5 - 10 feet	Sapling
White Pine	5	Log	13		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Pine	10	Log	12					

118 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 4.6 26 1-50 N/A

A ridge that must've been cut in late 1990s. Beaver damage to margins and especially to larger diameter aspen. Seems like relatively poor site quality. Beavers largely wiped aspen out on eastern island. Invasive honeysuckle on eastern island

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	10	Sapling/Pole	4		White Pine	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	15	Sapling/Pole	4		Northern Pin Oak	Low	10 - 20 feet	Sapling
Black Cherry	5	Sapling	3		Wintergreen	High	< 5 feet	Tall Shrub
Red Maple	10	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Jack Pine	10	Pole	8		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
White Pine	10	Log/Pole	10		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Quaking Aspen	30	Sapling/Pole	4	26	Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub