



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54176

Entry Year 2024

Acreage: 1,842

County Cheboygan

Management Area: Cheboygan Basin Moraines

Stand Examiner: Tricia St. Pierre

Legal Description:

Cheboygan County, Grant Township

T36N R01E

Sections 10: NE, NESE

11: all

13: all except S1/2SE

14: E1/2 except southwest corner of SWSE, NW except portion lying westerly of Doriva Beach Road in the NWNW.

Identified Planning Goals:

Management goals aim to provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan and its residents. Forest management prescribed will increase vigor in residual trees, regenerate aging and declining timber types, and continue to diversify red pine age classes. Management has been designed with consideration for recreational uses within the Black Mountain Recreation Trails.

Soil and topography:

Soils are dominated by sands supporting PARVHa and PARVVb Kotar Habitat Types. PARVVb, PARVCo, AFO, and unclassified lowland habitat types are present but to a lesser extent.

Sandy soils make up over 99% of the compartment: 85% sand, 12% loamy sand, and 2% mucky sand. The remaining 1% of soils are peat (.9%) and muck (.1%). The sand types are very well drained and have more than 80" to the water table, except for Cheboygan loamy sand with 0-6% slopes, whose depth to the water table is 24-36"; Riggsville loamy sand with a depth of 12-24"; and Au Gres sand with 6-18" to the water table.

Au Gres sands tend to support a greater diversity of plants, likely because they're the most poorly drained of these sands and have less depth to the water table. Au Gres sand are also prone to seasonal flooding. This makes the Au Gres sands more diverse and capable of supporting less drought tolerant species, such as hemlock. The loamy sands also have greater species richness and a propensity for seasonal flooding.

The muck and peat found in this compartment support lowland species such as cedar, spruce, and hemlock and are very minor components of the covertypes. These types are saturated and seasonally or continuously flooded.

The only AFO habitat types found in the region are associated with Cheboygan and Blue Lake Loamy Sand and have the highest stocking of northern hardwood (sugar maple, ironwood, beech, and white ash) than anywhere else in the compartment. This is such a minor component that it should be managed in a means that will perpetuate the presence of northern hardwood therein.

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

Ownership to the south and west is mostly private residential. To the north and east, most compartment boundaries abut other state forest land, with the exception of a landlocked private 80 acres in the southeast and private ownership on the far northwest edge. Farming and private forests on larger tracts of land are present to the west. Smaller lots and much denser residential development occupy the shore line of Black Lake and a few parcelized roads. Land use within the compartment is largely recreational with many motorized and non-motorized trails and easy accessibility for hunting.

Unique Natural Features:

There are no known occurrences of protected species within this compartment, though there are overlapping potential occurrence polygons for terrestrial species, including Hill's Thistle (*Cirsium hillii*, Special Concern), Wood turtle (*Glyptemys insculpta* (Special Concern), Red-shouldered hawk (*Buteo lineatus*, Threatened).

Unique when considering the dominant covertypes for this compartment, the inclusion of hemlock and cedar are notable. Lowland-associated plants and animals are a rarity within this compartment and should be mindfully considered when recommending forest management activities.

There's also a notable component of natural red and white pine across the compartment, some of which meets legacy tree criteria. These trees, especially those meeting legacy tree criteria, should be recognized and protected as directed through DNR policy.

Archeological, Historical, and Cultural Features:

There are no known Historical, Cultural, or Archaeological sites within this compartment, though the potential exists.

Special Management Designations or Considerations:

The Black Mountain Recreation Area is a high-intensity recreation area with many opportunities for motorized and non-motorized trail users.

The Red Pine Project, published in 2017, aims to establish red pine plantations for continuous commercial availability into the future. Specific acreage goals for thinning, final harvesting, and replanting will be guided with direction from the Regional State Forest Management Plan.

Watershed and Fisheries Considerations:

This compartment falls within the Black Lake Watershed, known for its diversity of fishery resources, aesthetics, and recreational opportunities. There is very little surface water within the compartment and none capable of supporting year-round aquatic populations. All management considerations have been made with Best Management Practices in mind to preserve and protect the fisheries resources within and around this compartment.

Wildlife Habitat Considerations:

Featured species in this compartment include ruffed grouse, American woodcock, white-tailed deer, and black bear. Multiple other species utilize these covertypes for habitat as well, including bald eagle, northern goshawk, great-horned owl, passerines, reptiles, and amphibians. All management recommendations have been made with consideration for enhancement or minimal impact to the wildlife herein.

Mineral Resource and Development Concerns and/or Restrictions

Sections 10-11 & 13-14, T36N-R1E, Cheboygan County

The State-owned Doriva Beach Road sand/gravel pit is immediately to the south, but it has never been leased since the department switched from permitting to leasing, and the extent of remaining usable material is unknown. There is potential for additional sand & gravel within the compartment. Very limited oil & gas exploration has occurred in this area, and there is no known potential for hydrocarbon production from known producing formations beneath the compartment, but there has been some history of oil & gas leasing in the area. There is no known metallic mineral potential in this part of the state. Comments submitted by Peter Rose – 05/11/2022.

Vehicle Access:

Vehicular access to this compartment is good in snow-off conditions. Interior forest roads and seasonal county roads are not plowed in the winter months, though there are groomed snowmobile and ski trails. Twin Lakes Road along the north boundary, Doriva Beach Road winding along and through the western and southern boundaries, and Black Mountain Road along the eastern boundary are all county roads maintained year-round. Black Mountain Road is hard-pack dirt/gravel; Doriva Beach and Twin Lakes are both paved.

Interior roads are extremely sandy and susceptible to erosion. ORV use in many cases has created severe degradation and erosion leading to the closure of some forest roads. Forest management should be cognizant of the potential for erosion; roads and trails should be properly maintained and new access routes should be rehabilitated and closed to public access.

Survey Needs:

Sec 14 SW corner of SWSE to establish ownership boundaries (potential trespasses; driveway easement(s) needed).

Recreational Facilities and Opportunities:

Portions of the Black Mountain Recreation Area are within this compartment. There are many motorized and non-motorized trails accessible in groomed and ungroomed conditions year round. Most forest roads are open to ORVs through PA-288, though some roads have been closed through a Director's Order to cease and prevent degradation.

Trails include:

-Black Mountain Ski & Hiking Trails: groomed in winter months for Cross Country Skiing

-Black Lake Trail: a 50" ATV/dirtbike trail

-Bummers Roost Trail

-Black Lake Route ORV trail

-Black Lake Route Snowmobile Trail: groomed snowmobile trail in winter

The Black Mountain Recreation Area management plan is available for further details.

Fire Protection:

There are some volatile fuel types across this compartment that, in the right conditions, could pose a challenge for fire protection. Fortunately, there's decent infrastructure for wildfire access. The Onaway and Atlanta Field Offices are the two closest locations for DNR wildfire response. Indian River Field Office is the next available resource.

This compartment is on the southeast corner of Alverno (Station 61) VFD coverage area. Onaway VFD and Ocqueoc-Bearing Fire Department are within relatively close proximity to this compartment as well.

Although Black Lake is within close proximity, there are very few places with public access for drafting. The Black Lake State Forest Campground is the nearest location for drafting (south off of Doriva Beach Road).

Additional Compartment Information:

LTA #2002-0129 within NWNW Section 14 prohibits construction/placement of buildings within 250' of Doriva Beach Road and denies the right to clearcut the parcel (though selective harvesting is permissible). Noncompliance of these terms means the parcel will revert to State ownership. The parcel should be monitored regularly through normal operations.

The following reports from the Inventory are attached:

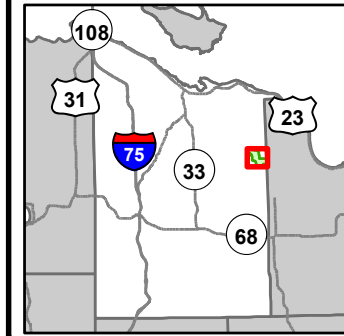
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

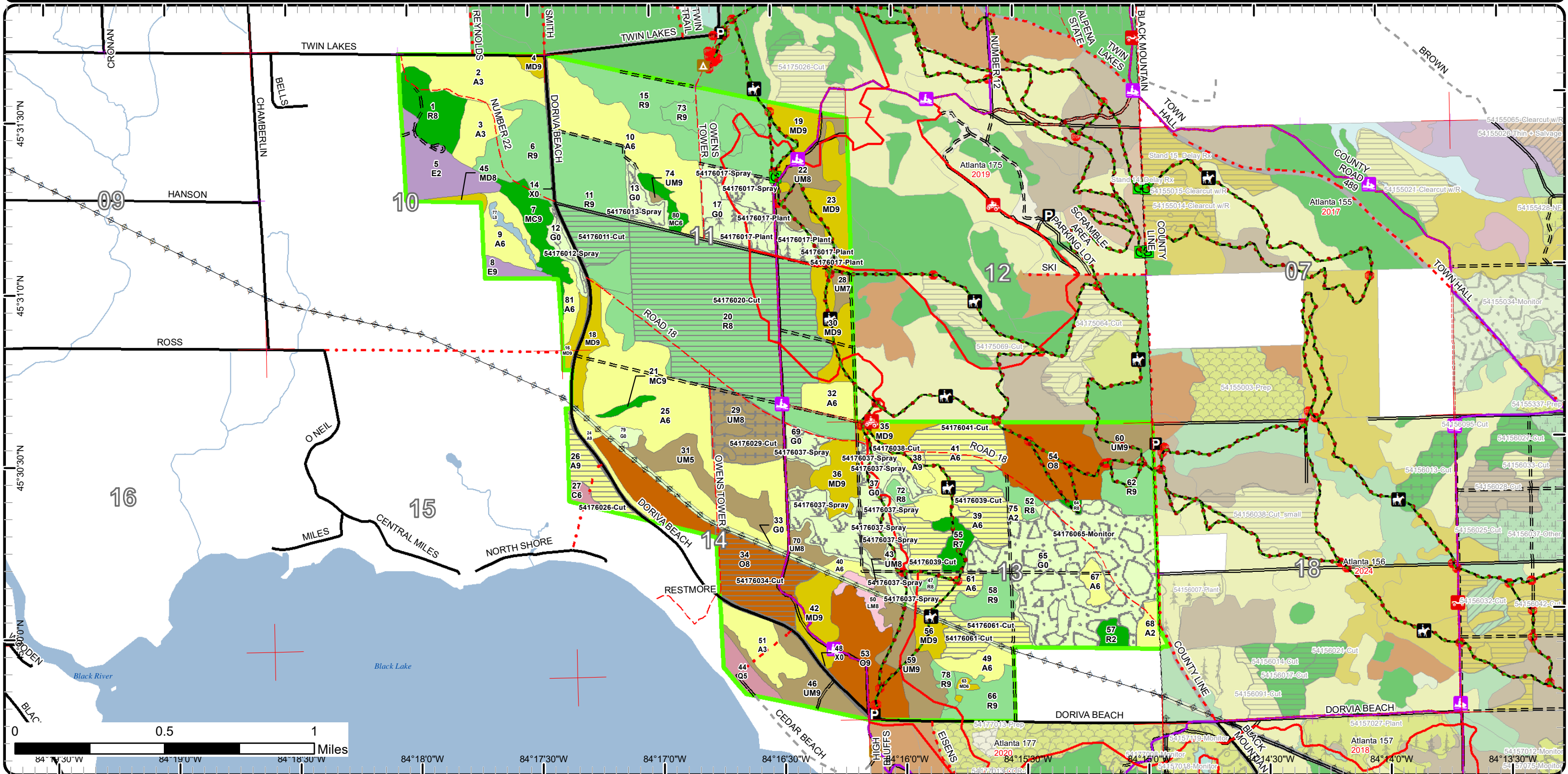
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 176
 T36N, R01E, Sec. 10, 11, 13, 14
 County: Cheboygan
 Unit: Atlanta
 Mgmt Area: Cheboygan Basin
 Moraines
 YOE: 2024
 Acres: 1841.7 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 11/16/2022
 Map Phase: Post-Review

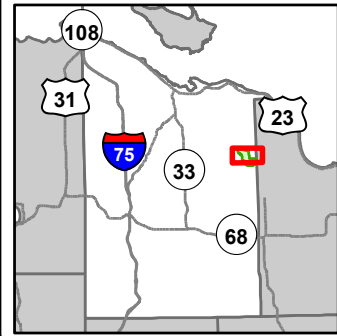


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Horse Trails
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- Designated Hiking Trails
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- Pesticide
- Planting (tree species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

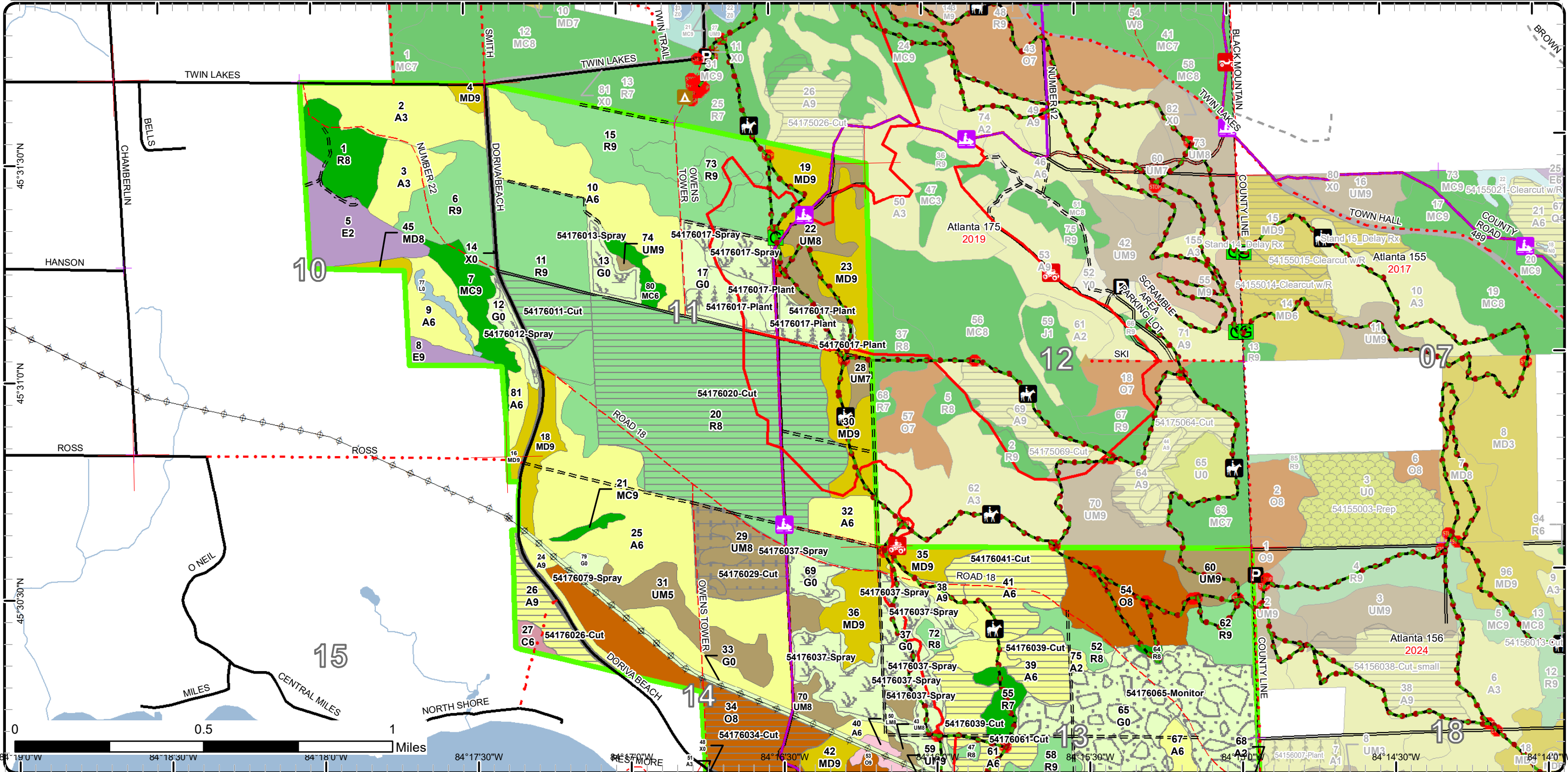


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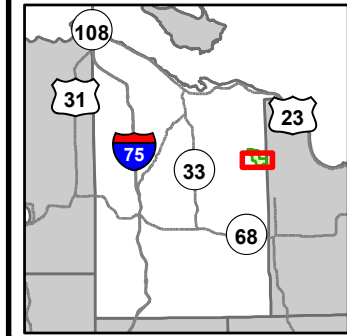


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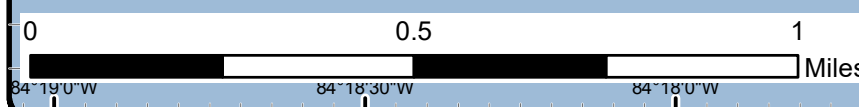
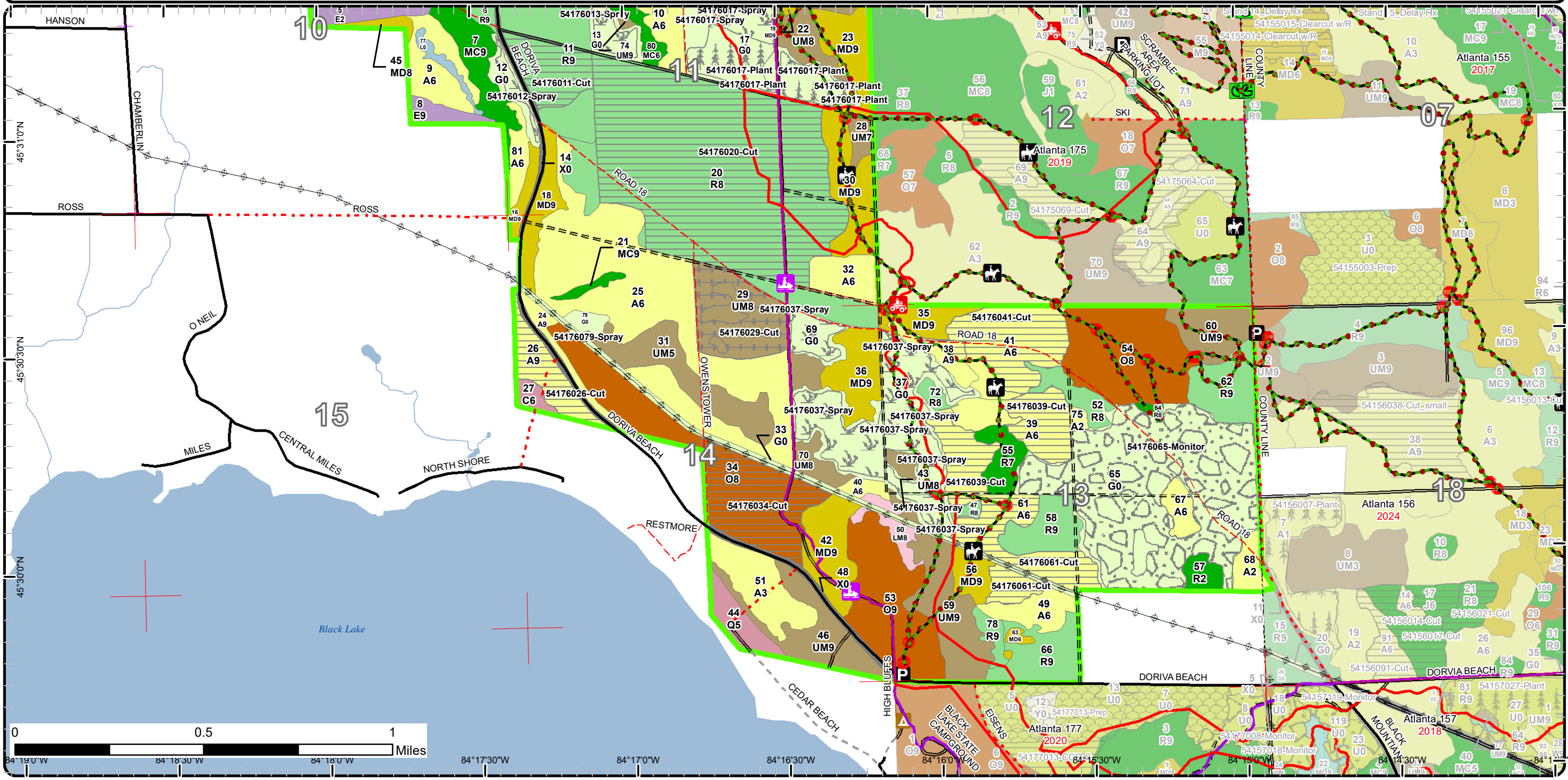


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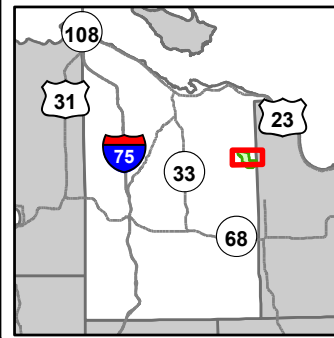


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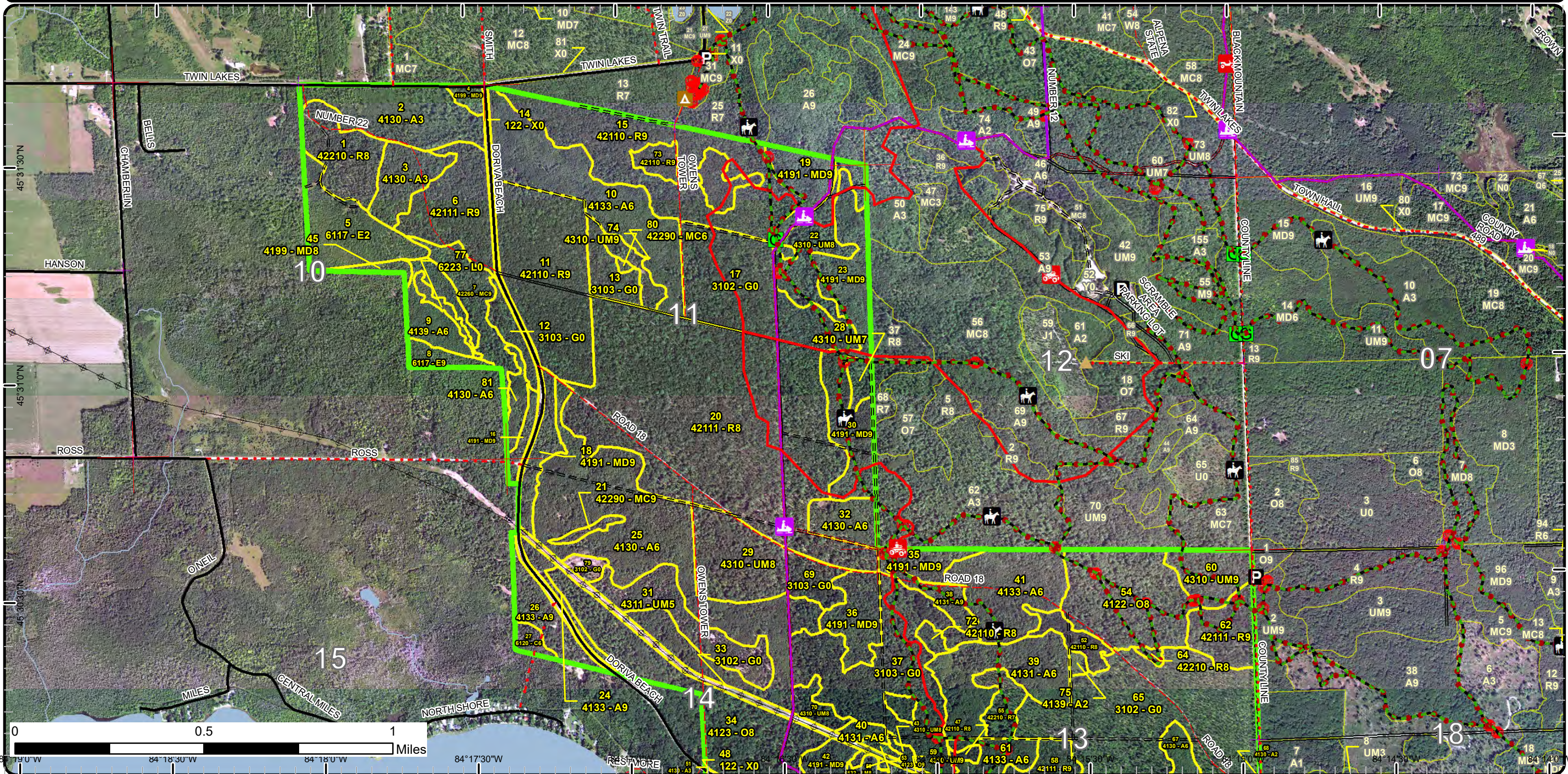


Stand Boundary Map

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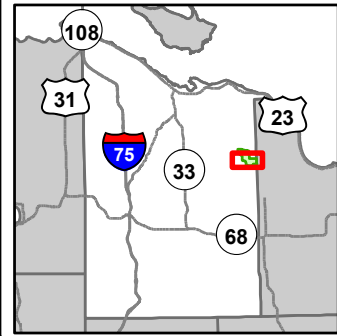


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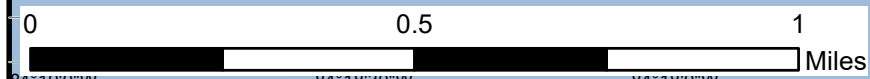
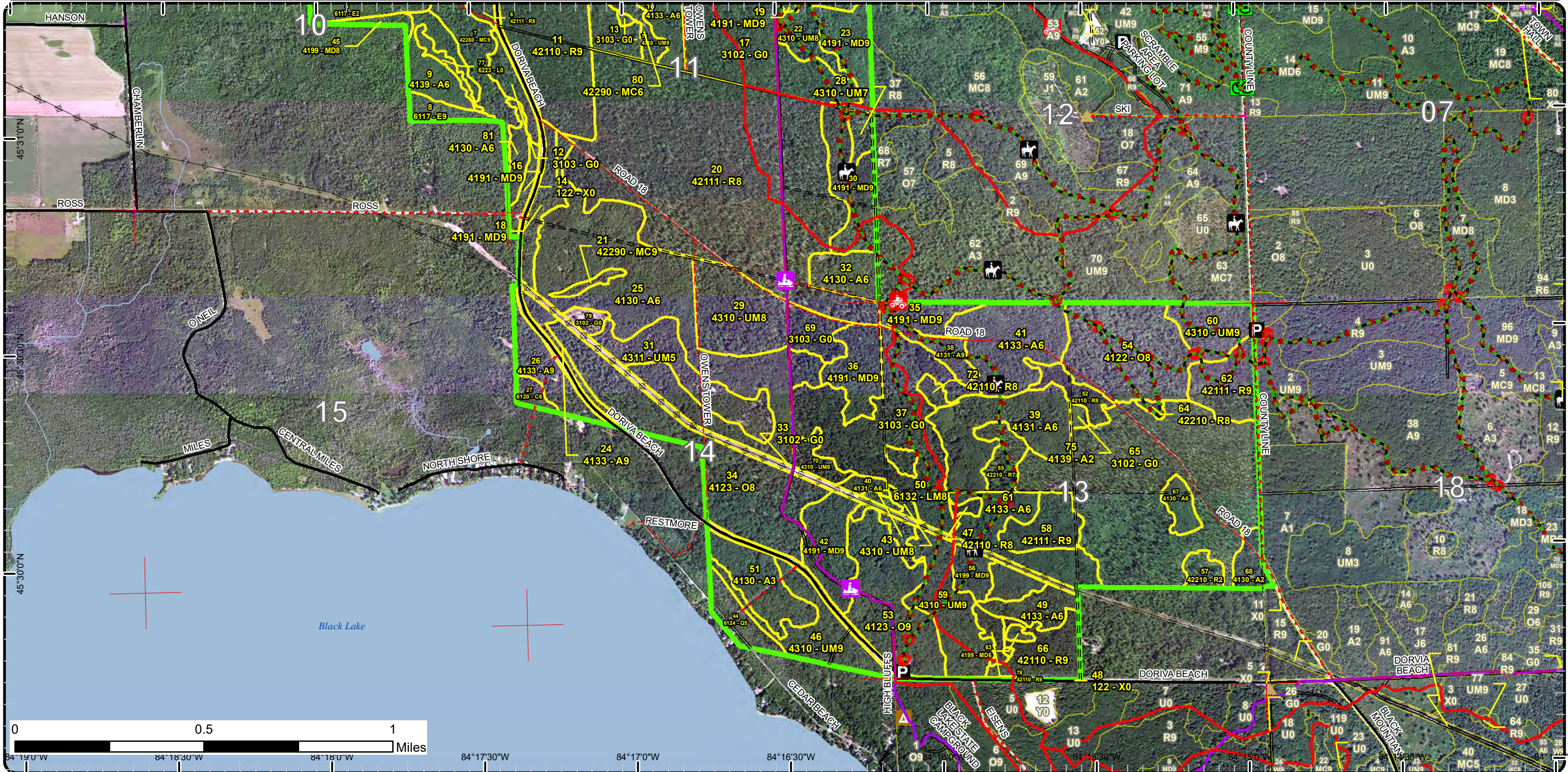


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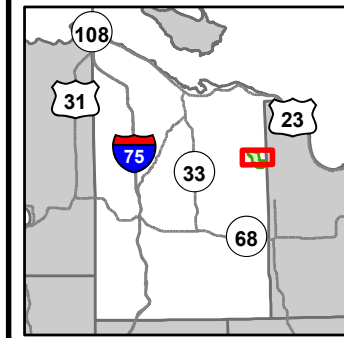


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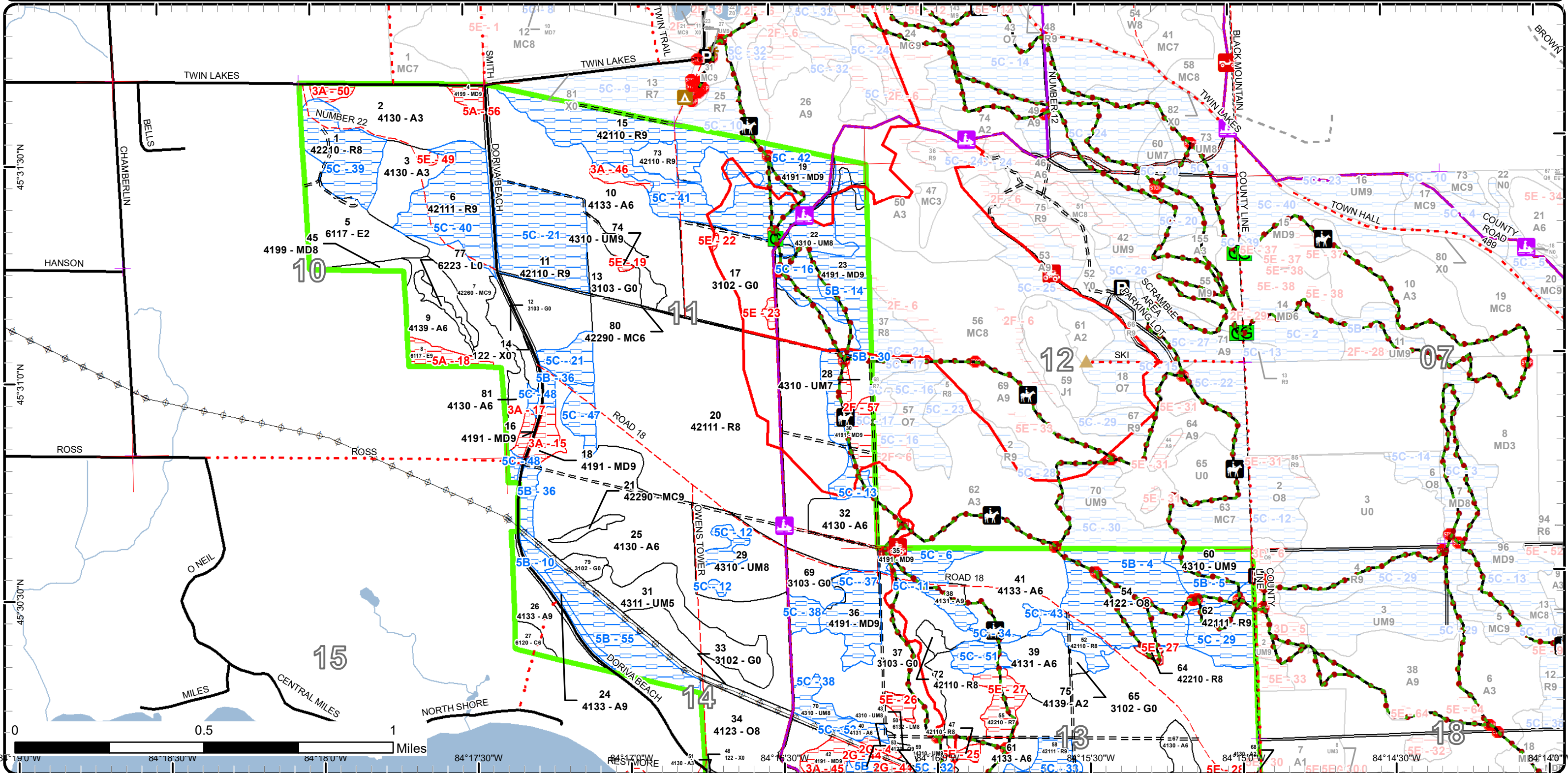


Special Conservation Areas

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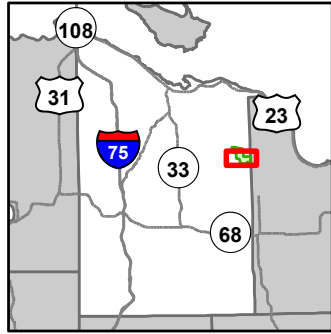


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Trail Head

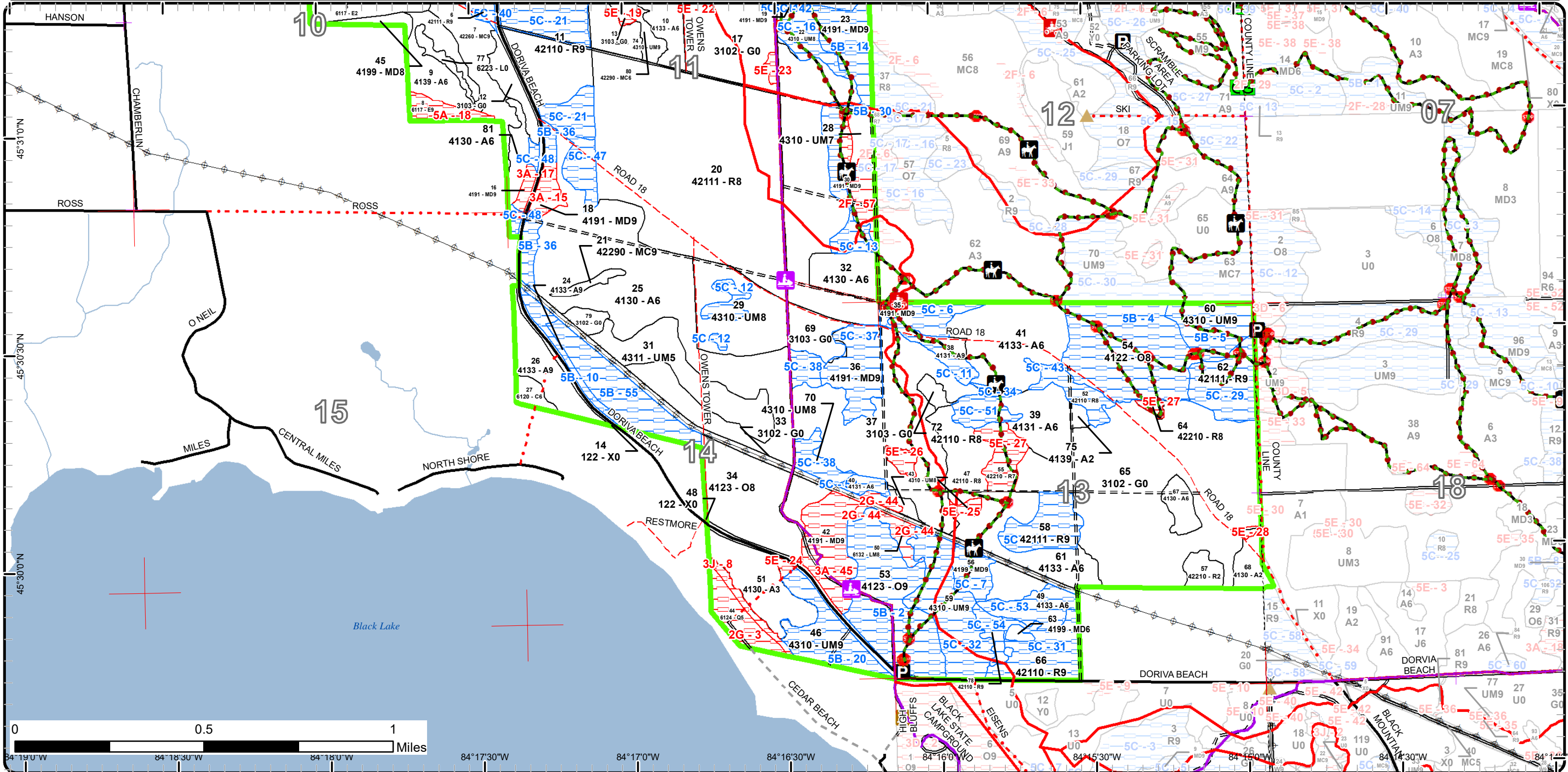


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- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Trail Head



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	48	37	0	108	186	37	0	0	8	22	0	0	0	0	0	0	0	446
Cedar	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Herbaceous Openland	306	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Lowland Deciduous	0	0	0	30	0	0	0	0	0	0	0	6	0	0	0	0	0	0	36
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	6
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	2	21	0	0	34	52	37	0	0	0	0	0	0	145
Natural Mixed Pines	0	0	0	0	6	0	0	0	0	0	20	0	0	3	0	0	0	0	29
Oak	0	0	0	0	0	0	0	0	44	0	0	63	49	0	0	0	0	0	156
Red Pine	0	0	0	6	0	0	0	0	0	498	0	0	0	0	0	0	0	0	503
Upland Mixed Forest	0	0	0	0	0	27	0	0	2	39	49	57	0	0	0	0	0	0	174
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	332	48	37	36	114	215	58	0	46	579	154	174	49	0	3	0	0	0	1842



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 176

Total Compartment Acres: 1,842

Commercial Harvest - 383
 Harvests with Site Condition - 2
 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	115	0	0	0	0	0	0	0	0	115
Oak	40	0	0	0	0	0	0	0	0	40
Red Pine	204	0	0	0	0	0	0	0	0	204
Upland Mixed Forest	0	0	0	0	0	26	0	0	0	26
Total	359	0	0	0	0	26	0	0	0	385

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	385	0	26	0	0	84	122	0	0	617
Next Step	0	407	490	0	26	433	1013	0	0	2369
Total	385	407	516	0	26	517	1135	0	0	2986



Stand Name	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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Approved Treatments:

11	54176011-Cut	19.6	42110 - Planted Red Pine	Sawtimber Well	87	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest. Do not cut any trees meeting legacy tree criteria if found within harvest boundary.

Specs:

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

Treatments: Planting, Interplant; Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Site Prep

Acceptable Regen: Acceptable regeneration will meet requirements for a fully stocked red pine plantation.

Other Comment:

Require 6" stump height to facilitate future planting operations.

Site Condition

Proposed Start Date: 10/1 /2023

12	54176012-Spray	2.9	3103 - Rubus-Fern	Nonstocked	0	Unspecified	Pesticide	ERROR	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Apply herbicide to set back woody competition.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Regen: Planted Red Pine

Other Comment:

Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2022

13	54176013-Spray	7.4	3103 - Rubus-Fern	Nonstocked	0	Unspecified	Pesticide	ERROR	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Apply herbicide to set back woody competition.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Regen: Planted Red Pine

Other Comment:

Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
17 54176017-Plant	25.9	3102 - Grass	Nonstocked	0	Unspecified	Planting	Initial Plant	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Plant to red pine. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Release; Burn, Slash; Monitoring, Artificial Regen(1yr); ; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
17 54176017-Spray	12.9	3102 - Grass	Nonstocked	0	Unspecified	Pesticide	ERROR	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Apply herbicide to set back woody competition. <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Acceptable regeneration is a well-stocked stand of red pine with minor components of other native species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
20 54176020-Cut	183.9	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	84	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest. Utilize retention for visual management along trails in southeast. Sign and protect all recreational trails. <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Planting, Interplant; Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Site Prep <u>Acceptable</u> Acceptable regeneration will be a fully stocked red pine plantation. <u>Regen:</u> <u>Other</u> Require 6" stump height to facilitate future planting operations. Square up treatment edges, specifically southwest and east, as best as possible. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26 54176026-Cut	15.8	4133 - Aspen, Mixed Pine	Sawtimber Well	93	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Do not cut any hemlock, cedar, or trees meeting legacy criteria. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen. <u>Other Comment:</u> Do not chip. Leave slash intact and scattered in such a way as to block ORV traffic and protect oak stump sprouts. Exclude saturated soils if found. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
29 54176029-Cut	26.4	4310 - Pine, Oak Mix	Sawtimber Medium	92	51-80	Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Overstory removal protecting advanced pine, oak, and aspen regeneration. Areas of dense aspen should be excluded from harvest if they are approximately 1/2 acre in size or greater. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of oak, red maple, and pine at any stocking level is acceptable. <u>Other Comment:</u> Use 4.5" spec. Treatment acreage may be reduced >25% due to the exclusion of advanced regeneration. Actual treatment boundaries may vary significantly from the proposed treatment area. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
34 54176034-Cut	40.0	4123 - Red Oak	Sawtimber Medium	103	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest protecting advanced regeneration. Do not harvest any white pine or trees meeting legacy criteria if found within treatment area. <u>Specs:</u> Sign and protect recreational trails. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for an upland mix of oak, aspen, and red maple in any combination. Typing as an A- or O- type is considered acceptable. The inclusion of red pine is acceptable any level. <u>Other Comment:</u> Protect juniper. Leave tops intact and scattered, preferring to leave tops on top of stumps to protect stump sprouts. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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37	54176037-Spray	60.2	3103 - Rubus-Fern	Nonstocked	0	Unspecified	Pesticide	ERROR	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Apply herbicide to set back woody competition.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Planted Red Pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

38	54176038-Cut	2.1	4131 - Aspen, Oak	Sawtimber Well	86	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest. Sign and protect recreational trail. Keep treatment to the north side of the trail during this entry.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for aspen.

Regen:

Other Do not cut any white pine. Actual treatment boundary may vary if west half is too narrow for equipment to operate.

Comment:

Site Condition Unspecified

Proposed Start Date: 10/1 /2023

39	54176039-Cut	31.4	4131 - Aspen, Oak	Poletimber Well	35	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest. Do not cut any pine. Sign and protect recreational trail.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for aspen.

Regen:

Other Focus retention along trail junctions. Retention may be utilized to capture Xlog oak as appropriate to do so.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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41	54176041-Cut	32.7	4133 - Aspen, Mixed Pine	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest. Do not cut any white pine. Sign and protect recreational trail. Follow BMPs for slopes >40%, which may involve excluding the steepest slopes.
Specs: Keep treatment to the north and east of the trail.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen. An aspen coverytype with the inclusion of oak and/or pine at any stocking level will be acceptable.

Other Comment: Utilize retention as visual management and/or to exclude areas of large diameter natural pine. Protect juniper. Do not harvest any trees >20" dbh if found in treatment area.

Site Condition

Proposed Start Date: 10/1 /2023

61	54176061-Cut	33.1	4133 - Aspen, Mixed Pine	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest. Sign and protect recreational trails. Do not harvest any white pine. Protect trees measuring >20" dbh.
Specs:

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen.

Other Comment: Utilize retention for visual management along pathway where appropriate to do so, especially around trail junction and/or around other unique stand level elements. Trace pole sugar maple on west edge of stand 58 between 50 and trail. Prefer to protect with a retention pocket. Area to south of stand 47 contains relic red pine to be protected, preferably in a retention island or boundary exclusion.

Site Condition

Proposed Start Date: 10/1 /2023

65	54176065-Monitor	122.0	3102 - Grass	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
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Prescription Complete a 3rd year artificial regeneration survey in the fall of 2022.
Specs:

Next Step Monitoring, Herbicide Use
Treatments:

Acceptable Regen: -acceptable regeneration is fully stocked rp with minor associates of oak, beech, & aspen.

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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79	54176079-Spray	0.2	3102 - Grass	Nonstocked	Unspecified	Pesticide	Hand Application	3102 - Grass		No
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Prescription Eradicate japanese knotweed with methods available, including herbicide application, hand pulling, and other means.

Specs:

Next Step Monitoring, Invasive Species

Treatments: ; Pesticide, Hand Application; Monitoring, Invasive Species

Acceptable

Regen:

Other Removal may be accomplished by AmeriCorps members or other CISMA associates.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

Total Treatment Acreage Proposed: 616.5

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				5B	5C	2F	2G	3A	3J	5A	5E	ed	
446	405	35		4	Aspen	6	29			3	0			1	2
4	4	0		0	Cedar										
306	303	0		2	Herbaceous Openland	0	0							2	
11	0	0		11	Lowland Conifers				11						
36	30	0		6	Lowland Deciduous							6			
6	0	0		6	Lowland Mixed Forest				6						
4	4	0		0	Lowland Shrub										
145	5	98		42	Mixed Upland Deciduous	31	67	10		28		3			
29	29	0		0	Natural Mixed Pines									0	
157	40	117		0	Oak	117									
503	241	245		16	Red Pine	0	245			3				13	
174	61	105		8	Upland Mixed Forest	37	68				4			4	0
22	21	1		0	Urban	0	1								
1,842	1,142	602		95	Total Forested Acres	191	411	10	17	34	4	10		20	2
	62%	33%		5%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unspecified	Unspecified	Unspecified	0				
Comments:								
2	Available	5B: Maintain for regeneration purposes	5B: Maintain for regeneration purposes	44		Unspecified	Unspecified	Unspecified
Comments:								
-a lot of areas showing good natural pine regen under oak								

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: many private adjacent landowners							
4	Available	5B: Maintain for regeneration purposes	49	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	17	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep hillside into adjacent lowland. Saturated soils at the bottom; a couple seeps. Oak dominated hillside with bigtooth, legacy red/white pine, red maple, hemlock, and cedar.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

9	Unspecified	Unspecified	2				
Comments:							
10	Available	5B: Maintain for regeneration purposes	6	3G: Other Influence zones - See comments	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified
Comments: along roadway and a fair amount of wp saplings coming in							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: -leave untreated or cut later if aspen are still alive with aspen to adjacent east to keep trail clear of falling trees							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense saplings, 1997 origin.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep slope has been factor limited. The soft factor applies to a gentler slope, delaying treatment due to aesthetic concerns for adjacent red pine restart.							
14	Available	5B: Maintain for regeneration purposes	25	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

15	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Acreage contains a drainage with sensitive soils. Hemlock and legacy red and white pine present.							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: -leave untreated until adj. cleacut has regenerated. A lot of trials through this stand.							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Saturated, sensitive soils with scattered cedar and hemlock to the north; relic white and red pine to the south.							
18	Unavailable	5A: Not able to obtain desirable regeneration	6	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Large volume of hemlock not represented elsewhere. Difficult to regenerate through forest management. Has wildlife value in its current status.							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5B: Maintain for regeneration purposes	20	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: along heavily travelled roadway							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand is being treated in the 2024 YOE with the intent of breaking up red pine age classes.							
22	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 51 (originally part of parent stand 46).							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for the portion of stand 37 which was originally parent stand 49, the acreage south of the quarter section line trail. (The number 49 has since been reassigned.)							
26	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -retention for stand 65							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -retention for stand 68							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5B: Maintain for regeneration purposes	0	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pine dominated draw to be managed with adjacent pine types as appropriate.							
36	Available	5B: Maintain for regeneration purposes	7	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: along roadway							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Removed and red maple, aspen, and jack pine in 2006. Allow subcanopy to mature.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	3A: Conservation Values incompatible with harvest at this time	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments: Soils are saturate with some standing water. The species composition is a rarity for this compartment. Added challenge of regenerating cedar in the presence of deer and elk.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 176

Tricia St. Pierre : Examiner

Year of Entry: 2024

45	Unavailable	3A: Conservation Values incompatible with harvest at this time	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A very unique stand with significant amounts of relic red and white pine with a notable amount of hemlock of various size classes.							
46	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pocket of natural red and white pine, some meeting legacy tree criteria. Boundaries are based on aerial imagery (following a field visit) and may be adjusted in the field.							
47	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand is being treated in the 2024 YOE with the intent of breaking up red pine age classes.							
48	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: along highly travelled roadway							
49	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for parent stand 3. Composition 90% red pine (L/P), 8% red oak (L/X/P), 2% BTA (L/P); high oak and trace red maple in the subcanopy.							
50	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Saturated soils with hemlock and Xlog red and white pine.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 176

Tricia St. Pierre : Examiner

Year of Entry: 2024

51	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment and manage for natural pine and oak. This portion of the stand occupies a ridge dominated by pole oak and natural pine.							
52	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage. Delay treatment and manage with adjacent stands. Mucky sand with high water holding capacity (seasonally flooded) along utility line corridor to the southeast.							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aspen is still small pole sized. Stand is two-aged with a developing second cohort.							
54	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Subcanopy developing.							
55	Available	5B: Maintain for regeneration purposes	23	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Low to moderate density subcanopy and lower basal area of canopy. Allow subcanopy to further mature before removing the top.							
56	Unavailable	5A: Not able to obtain desirable regeneration	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand with the only canopy sugar maple in the compartment except three mid canopy individuals in stand 61.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 176
Year of Entry: 2024

57	Unavailable	2F: Too steep	10	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: East half of stand occupies steep west-facing slopes. Pathway sideslopes at the base of the steepest portion, below which is a gentler slope.							

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

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42210 - Natural Red Pine	Sawtimber Medium	24.3	84	51-80	N/A	Variable pine densities and diameters. Aspen saplings are >20' where the canopy is more open, 10-20+ under denser residual. Scattered legacy red and white pine. Rare paper birch (sap) and hazelnut.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	10	Log/Pole/XLog	14		Red Oak	Medium		Variable	Sapling
White Pine	10	Log/Pole/XLog	12		Bracken Fern	Medium		Unspecified	Non-Wood
Red Pine	80	Log/Pole/XLog	14	84	White Pine	Low		Variable	Sapling
					Pipsissewa	Trace		< 5 feet	Tall Shrub
					Beech	Low		Variable	Sapling
					Trailing Arbutus	Trace		< 5 feet	Tall Shrub
					Bigtooth Aspen	High		>20 feet	Sapling
					Wintergreen	Medium		< 5 feet	Tall Shrub
					Balsam Fir	Low		Variable	Sapling
					Black Cherry	Trace		5 - 10 feet	Sapling
					Red Pine	Trace		Variable	Sapling
					Red Maple	Medium		Variable	Sapling
					Black Spruce	Trace	Variable	Sapling	

2	4130 - Aspen	Sapling Well	37.1	15	1-50	N/A	Drainage through westernmost portion of stand sitting on Loamy Sand (rest of the stand is just sand) with hemlock (dense in areas), log/Xlog red and white pine, and pole/sap balsam fir; trace cedar, paper birch, and black ash. Trace quaking aspen, cedar, sugar maple in canopy. Rare pipsissewa, bunchberry, trailing arbutus, partridge berry, sugar maple, white ash, juniper, red oak, black cherry, stiff clubmoss, striped maple, and michigan holly in subcanopy. Residual stocking densities vary, from 10-100+; highest densities in west quarter of stand and along the perimeters. Red maple presence in sapling canopy has decreased significantly (from 20 to 5%) in the last decade from browsing pressure and aspen competition. There's more diverse hardwood here than anywhere else in the compartment, except stand 4 (adjacent to the northeast), though it's largely undesirable (beech and ironwood saplings) with trace sugar maple and white ash. Dense beech regen in spots. Squirrels have stripped most would-be-canopy sugar maple saps.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	1	Sapling/Pole	2		Serviceberry (Juneberry)	Trace		< 5 feet	Sapling
Bigtooth Aspen	70	Sapling	3	15	Blueberry/Bilberry/Cranberry	Trace		< 5 feet	Tall Shrub
Red Oak	5	Log/XLog/Pole	14		Wintergreen	Low		< 5 feet	Tall Shrub
Hemlock	2	Log/Pole/Sap	14		Hemlock	Trace		Variable	Sapling
Balsam Fir	2	Pole/Sapling	6		Red Maple	Trace		Variable	Sapling
Red Pine	7	Log/Pole/XLog	14		Ironwood	Low		Variable	Sapling
White Pine	8	Log/Pole/XLog	14	84	Maple Leaved Viburnum	Trace		5 - 10 feet	Tall Shrub
Red Maple	5	Sapling	2		Balsam Fir	Low		Variable	Sapling
					White Pine	Low		Variable	Sapling
					Bracken Fern	Low		Unspecified	Non-Wood
					Red Pine	Trace		< 5 feet	Sapling
					Honeysuckle (spp.)	Trace		< 5 feet	Tall Shrub
					Beech	Low	Variable	Sapling	

3	4130 - Aspen	Sapling Well	17.1	4	Immature	N/A	Three aged oak: 3% log/pole/xlog (1932 origin), 10% 4" sap/pole (1974 origin), 2% sap (2018 origin). High browsing pressure on red maple and oak. Trace quaking aspen and white pine saplings in canopy. Rare sweet fern, trailing arbutus in subcanopy. Much more residual white pine in south third of stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	2	Sapling	2		Bracken Fern	High		Unspecified	Non-Wood
Red Oak	15	Sapling/Pole/Log	4	48	Balsam Fir	Trace		Variable	Sapling
Red Pine	3	Log/Pole	14		Red Maple	Medium		Variable	Sapling
Red Maple	10	Sapling	1		Red Pine	Trace		< 5 feet	Sapling
Bigtooth Aspen	60	Sapling	1	4	Beech	Low		Variable	Sapling
White Pine	10	Log/Pole/XLog	12	84	Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
					White Pine	Low		Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	3.4	97	51-80	N/A	More sugar maple poles by number, but oak crowns take up more canopy volume. A good amount of advanced sugar maple in the subcanopy, but anything less than 20' is ironwood dominated. Trace hemlock and ironwood in canopy. Rare red pine, white spruce, red oak in subcanopy. White ash snags. A decent mix of conifer on north edge. Northeast corner is dominated by white pine and red pine with hemlock, basswood, and sugar maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		9	Log/XLog/Pole	14		Balsam Fir		Trace	Variable	Sapling	
Sugar Maple		30	Pole/Log	8		Sugar Maple		Medium	>20 feet	Sapling	
Basswood		25	Log/Pole	10		Ironwood		High	Variable	Sapling	
Red Pine		1	XLog	18		Hemlock		Trace	Variable	Sapling	
Red Oak		35	Log/XLog	14	97	White Pine		Trace	Variable	Sapling	
						Beech		Trace	Variable	Sapling	

5	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	29.6	25	Immature	N/A	Northeast edge is pretty heavy to aspen with >75% canopy closure, but the majority of the stand behind that is dominated by paper birch and lowland shrubs with varying densities of back spruce, balsam fir, and quaking aspen. Northwest has a lot of mixed conifer, some areas of very dense red pine. Trace cedar, willow, ash in canopy. Rare cedar, pin cherry (associated with bigtooth aspen), sweet fern, alternate leaf dogwood, and beech in subcanopy. Fairly intense browsing in spots.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		10	Pole/Sapling	6		Red Maple		Trace	Variable	Sapling	
Tamarack		1	Sapling/Pole	4		Willow spp.		Trace	Variable	Tall Shrub	
Balsam Fir		20	Sapling/Pole	3		White Spruce		Trace	Variable	Sapling	
White Pine		3	Pole/Sapling	6		Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	
Paper Birch		35	Sapling/Pole	2	25	Black Spruce		Trace	Variable	Sapling	
Red Oak		2	Sapling/Pole	3		Wild Raisin		Medium	Variable	Tall Shrub	
Jack Pine		1	Sapling/Pole	4		Michigan Holly		Medium	5 - 10 feet	Tall Shrub	
White Spruce		2	Sapling/Pole	3		Bulrush		Trace	Unspecified	Non-Wood	
Red Maple		10	Sapling	2		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Black Spruce		1	Sapling	2		Balsam Fir		Medium	Variable	Sapling	
Quaking Aspen		10	Sapling/Pole	2	25						

6	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	32.8	87	81-110	N/A	Scattered legacy red pine in the south. Red maple and bigtooth (and to some extent oak, too) are two aged: sap/pole cohort of 44; log/pole/xlog at 85. Trace jack pine, mostly along east edge and in southwest. Rare hemlock, serviceberry in subcanopy. Trace hemlock on southwest edge on slight ridge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		10	Log/Pole/XLog	12		Black Cherry		Trace	Variable	Sapling	
Bigtooth Aspen		15	Pole/Sap/Log	6	44	Red Maple		Medium	Variable	Sapling	
Red Pine		68	Log/Pole/XLog	15	87	Pipsissewa		Trace	< 5 feet	Tall Shrub	
White Pine		3	Log/Pole/XLog	12		White Pine		Trace	Variable	Sapling	
Red Maple		4	Sapling/Pole/Log	3	44	Red Oak		Medium	Variable	Sapling	
						Balsam Fir		Low	Variable	Sapling	
						Bracken Fern		Low	Unspecified	Non-Wood	
						Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	
						Beech		Trace	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	19.5	91	51-80	N/A	Stand boundaries have been adjusted somewhat significantly from original geometry. Jack pine snags present. Trace jack pine, fir, and spruce in canopy. Rare beech, spruce, and cedar in subcanopy. Slight increase in red oak poles to the south. Drainage in the north isn't holding water but is damp; hemlock and balsam fir dominated with wild raisin and spruce in the subcanopy. Legacy white pine and a drainage with standing water in the center of the stand with leatherleaf extending into adjacent stand 12. Southern acreage gets moist with some standing water. Stand composition is generally Log/Xlog/Pole white pine, red pine, and red oak with hemlock with a second class of pole/sap/(log) bigtooth aspen with red maple, balsam fir, and red oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		20	Log/XLog/Pole	14		White Pine		Low	Variable	Sapling	
Bigtooth Aspen		10	Pole/Sapling	7	48	Leatherleaf		Trace	< 5 feet	Tall Shrub	
Red Pine		35	Log/XLog/Pole	14	91	Wild Raisin		Trace	< 5 feet	Tall Shrub	
White Pine		30	Log/XLog/Pole	14		Bracken Fern		Low	Unspecified	Non-Wood	
Red Maple		3	Pole/Sap/Log	8		Wintergreen		Medium	< 5 feet	Tall Shrub	
Hemlock		2	Log/XLog	14		Red Oak		Trace	Variable	Sapling	
						Serviceberry (Juneberry)		Trace	Variable	Sapling	
						Balsam Fir		Low	Variable	Sapling	
						Hemlock		Trace	Variable	Sapling	
						Red Maple		Low	Variable	Sapling	
						Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	

8	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	6.2	109	81-110	N/A	Trace cedar in canopy. Pretty simple subcanopy, lacking diversity or structure. In wettest areas, hemlock is absent and canopy closure drops to 50-75%, becoming QA/RM dominated (Xlog/log) with balsam fir, black ash, and holly. Hemlock is dominant on Au Gres Sand; Rubicon Sand supports more of the maple and aspen with hemlock.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		1	Log/Pole	10		Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		2	Pole/Log	8		Hemlock		Trace	Variable	Sapling	
Quaking Aspen		30	Log/XLog	16	92	Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Hemlock		35	Log/Pole	13	109	Black Ash		Trace	Variable	Sapling	
Red Oak		2	Pole/Log	8		Red Maple		Low	Variable	Sapling	

9	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.6	47	51-80	N/A	Drainage through stand has been broken out into a lowland shrub stand. East of drainage is pretty wet; a lot of standing water, sapling/pole dominated with scattered log white pine. Majority of pine and almost all cherry is concentrated in this east portion. West is more upland but a lot of standing water yet, pole/sap composition dominated by quaking aspen with some bigtooth and scattered log/Xlog red oak, white pine, and hemlock. Flowing water in a drainage in the west. Trace larch, yellow birch, black spruce, and white spruce in canopy. Rare serviceberry, red pine, alder, white ash, rattlesnake plantain in subcanopy. Wild raising, michigan holly, and black spruce are mostly in the east and north.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		1	Sapling/Pole	4		Michigan Holly		Trace	5 - 10 feet	Tall Shrub	
Red Maple		20	Pole/Sapling	6		Wild Raisin		Trace	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		5	Pole/Sapling	6		Red Maple		Low	Variable	Sapling	
Red Oak		5	Pole/Sap/Log	8		Black Spruce		Trace	Variable	Sapling	
White Pine		4	Log/XLog/Pole	14		Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		10	Pole/Sapling	7							
Black Cherry		1	Sapling	4							
Quaking Aspen		54	Pole/Sapling	6	47						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
10	4133 - Aspen, Mixed Pine	Poletimber Well	56.9	36	51-80	N/A	Trace jack pine, black cherry, balsam poplar in canopy. Scattered residual Log/Xlog red oak. Rare pin cherry, round leaved dogwood, hawthorn in subcanopy. Trace residual log red pine along north and west boundaries along the roads as visual management. Some hummocky areas throughout the stand, generally associated with an increase in balsam fir, quaking aspen, hemlock, paper birch, and maple leaved viburnum. These areas might hold water for part of the year. Occurrence of white ash increases in the southeast. Trace sweetfern in the more open areas in the west. Southern tip is smaller in overall diameter and has a much higher concentration of subcanopy oak.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	4	Pole/Log	8		Sugar Maple	Trace		>20 feet	Sapling
Quaking Aspen	15	Pole/Sap/Log	6		White Ash	Trace		Variable	Sapling
Red Pine	30	Pole/Sap/Log	7		Beech	Trace		Variable	Sapling
Paper Birch	1	Sapling/Pole	4		White Spruce	Trace		Variable	Sapling
Red Oak	3	Pole/Sap/Log	8		Serviceberry (Juneberry)	Low		Variable	Sapling
Bigtooth Aspen	45	Pole/Sap/Log	7	36	Maple Leaved Viburnum	Low		< 5 feet	Tall Shrub
Red Maple	2	Sapling/Pole	4		Hazelnut (American)	Trace		5 - 10 feet	Tall Shrub
					Black Cherry	Trace		Variable	Sapling
					Hemlock	Trace		Variable	Sapling
					White Pine	Trace		>20 feet	Pole
					Red Pine	Medium		Variable	Sapling
					Ironwood	Trace		Variable	Sapling
					Red Maple	Low		Variable	Sapling
					White Pine	Low		Variable	Sapling
					Red Oak	Low		Variable	Sapling
					Balsam Fir	Low		5 - 10 feet	Sapling
11	42110 - Planted Red Pine	Sawtimber Well	66.3	87	111-140	N/A	Two aged aspen and red maple (and trace oak): 48 year old pole/sap and 85 year old log/pole. Trace jack pine (scattered jp snags), white pine in canopy. More consistent canopy oak in the north quarter of stand; pocket of legacy pine with an increase in log/xlog red oak, red maple, bigtooth aspen (and an increase of white pine and balsam fir in the subcanopy). Small pocket along the north edge of natural red pine with trace legacy pine. Decent advanced red oak, red maple regeneration. One maple leaved viburnum in north. Rare black cherry, red pine, serviceberry, pipsissewa, and bearberry in subcanopy. Trace scattered relic red pine. White pine and balsam fir subcanopy is patchy - trace to low across the stand. Highest concentration of canopy white pine is in the northeast. Significant inclusion of subcanopy conifer (R/W/J pine, BF) on west (road) edge.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	1	Log/Pole	10		Bracken Fern	Low		Unspecified	Non-Wood
Red Oak	13	Log/XLog/Pole	16		Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
Bigtooth Aspen	2	Log/Pole/Sap	13		Bigtooth Aspen	Trace		>20 feet	Sapling
Red Pine	84	Log/Pole/XLog	12	87	Beech	Trace		Variable	Sapling
					Balsam Fir	Trace		Variable	Sapling
					White Pine	Low		Variable	Sapling
					Red Maple	Medium		Variable	Sapling
					Red Oak	High		Variable	Sapling
					Wintergreen	Low		< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
12	3103 - Rubus-Fern	Nonstocked	7.7	0	Unspecified	4211 - Planted Red Pine	Trenching for the planting of red pine was completed on 5/29/22. Roller chopping was completed on 9/3/21. Residual sap/pole conifers and red maple along road edge; two small clumps of log pine (also along road edge). Scattered stressed red pine volunteers. Tiny leatherleaf bog inclusion in northwest with dampness to the surrounding area. Rare bulrush.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Trace	Variable	Sapling
								Wintergreen	Low	< 5 feet	Tall Shrub
								Red Pine	Trace	< 5 feet	Sapling
								Leatherleaf	Trace	< 5 feet	Tall Shrub
								Bigtooth Aspen	Trace	< 5 feet	Sapling
								Black Spruce	Trace	< 5 feet	Sapling
								Jack Pine	Trace	Variable	Sapling
								Bulrush	Trace	Unspecified	Non-Wood
								Red Oak	Trace	< 5 feet	Sapling
								Red Maple	Low	< 5 feet	Sapling
								Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
								Trailing Arbutus	Trace	< 5 feet	Tall Shrub
Balsam Fir	Trace	< 5 feet	Sapling								
13	3103 - Rubus-Fern	Nonstocked	11.6	0	Unspecified	4211 - Planted Red Pine	Trenching for the planting of red pine was completed on 5/29/22. Roller chopped in September 2021. 10" of snow depth made it difficult to gauge ground flora. Some stress to red pine (volunteers) above snow.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	Medium	< 5 feet	Sapling
								Red Pine	Trace	>20 feet	Log
								Sweet Fern	Low	< 5 feet	Tall Shrub
								Red Pine	Low	< 5 feet	Sapling
								Bracken Fern	Medium	Unspecified	Non-Wood
Red Oak	Medium	< 5 feet	Sapling								
14	122 - Road/Parking Lot	Nonstocked	13.9		Unspecified	No	Doriva Beach Road, paved county road.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	42110 - Planted Red Pine	Sawtimber Well	72.6	89	81-110	N/A	Trace red maple (east edge only) in canopy. Rare jack pine, hemlock, sweet fern, round leaf dogwood, white ash, striped maple in subcanopy. Maple leaved viburnum is more prominent in northeast, as is hawthorn. Some advanced red maple, oak, and aspen saplings. Oak and maple alternate between medium and high stocking. One paper birch sap >20'; few jack pine saps along north edge of stand. Scattered relic red pine in south and west. Area along southwest edge includes a couple acres of natural red and white pine with oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		1	Log/Pole/XLog	12		Red Maple		High	Variable	Sapling	
Red Pine		94	Log/Pole	12	89	Bigtooth Aspen		Medium	>20 feet	Sapling	
Red Oak		5	Log/Pole/XLog	12		Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	
						Balsam Fir		Trace	Variable	Sapling	
						Maple Leaved Viburnum		Low	< 5 feet	Tall Shrub	
						Serviceberry (Juneberry)		Low	Variable	Tall Shrub	
						Beech		Medium	Variable	Sapling	
						Hazelnut (Spp.)		Trace	5 - 10 feet	Tall Shrub	
						Red Oak		High	Variable	Sapling	
						Bracken Fern		Low	Unspecified	Non-Wood	
						White Pine		Medium	Variable	Sapling	
						Red Pine		Trace	>20 feet	Sapling	
						Hawthorn (spp.)		Trace	< 5 feet	Tall Shrub	

16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.0	97	81-110	N/A	From south to north: stand transitions from oak/bigtooth/white pine/red pine to a wet drainage with dense fir; lesser aspen, red maple, white pine, and trace hemlock and cedar; then to fir (pole/sap/log) with supercanopy quaking and bigtooth aspen, red maple, white pine, hemlock, red pine, before returning to oak and aspen (with red maple) in the north. Trace hemlock and cedar saps in very wet area, just north of E-W road.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		3	Pole/Log/Sap	8		Wintergreen		Medium	< 5 feet	Tall Shrub	
White Pine		23	Log/XLog/Pole	14		Red Maple		Low	Variable	Sapling	
Quaking Aspen		1	XLog/Log	18		Pipsissewa		Trace	< 5 feet	Tall Shrub	
Red Pine		2	XLog/Log	18		Trailing Arbutus		Trace	< 5 feet	Tall Shrub	
Hemlock		1	Log/Pole	10		White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		30	Log/XLog	16	97	Balsam Fir		Medium	Variable	Sapling	
Red Oak		25	Log/XLog	16							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 3102 - Grass Nonstocked 54.0 0 Unspecified 4211 - Planted Red Pine

Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	High	Unspecified	Non-Wood
Red Oak	Medium	< 5 feet	Sapling
Sweet Fern	Low	< 5 feet	Tall Shrub
Red Maple	Medium	< 5 feet	Sapling
Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub
White Pine	Trace	< 5 feet	Sapling
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Pin Cherry	Trace	< 5 feet	Sapling
Ironwood	Trace	< 5 feet	Sapling
Bigtooth Aspen	Low	Variable	Sapling
Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
Beech	Trace	< 5 feet	Sapling
Red Pine	Trace	< 5 feet	Sapling

For the southern 26 acres of this stand the Herbicide application was completed on 6/23/2022. The north 13 acres of this stand has a herbicide start date of 10/1/22.
Trenching for the planting of red pine was completed on 5/29/22.
Northwest third was roller chopped 9/21. Scattered red maple, red oak, ironwood, beech, red pine saplings. Sweet fern, serviceberry, raspberry, and maple leaved viburnum present.
Southern 2/3s also roller chopped. Spotted knapweed on N-S trail edge.
More sweet fern east of N-S trail; more red pine saps, too. Higher canopy occupancy (>3'), red maple and oak dominated, in far east and west ends.
Retention islands:
North: 95% RP, 5% RO; full RM, BTA, RO subcanopy with trace hazelnut, serviceberry, and white pine.
South: RP 05% L/P, RO 5% LPX. Medium to high stocking of RM, RO, beech, Serviceberry.
Larger western retention could be split out into its own stand. 50-75% forested: 45% WP LXP, 39% RP LXP, 15% RO LXP, 1% RM Pole, 112+ years old; saturated soils, seasonal surface water. Beautiful natural pine. Subcanopy with varying densities of WP, RP, serviceberry, RM, bta, beech, wintergreen, maple leaved viburnum, BF, WA, hazelnut.

FTP C54-1096
Roller Chopped on 7/29/17
FTP 54-1131
Roller chopping was completed on 9/3/21.

18 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 12.0 108 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	1	Log/Pole/XLog	12	
White Pine	20	Log/Pole/XLog	14	
Red Oak	20	Log/XLog/Pole	14	
Red Pine	10	Log/XLog/Pole	14	
Quaking Aspen	5	Log/XLog	16	
Red Maple	15	Pole/Log	8	
Jack Pine	1	Log/Pole	10	
Bigtooth Aspen	28	Log/XLog/Pole	14	108

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

Stand boundaries were adjusted resulting in canopy composition change. Trace balsam fir in canopy. Rare jack pine (+ jack pine snags), red oak, paper birch in canopy.
South third of stand is much more homogeneous: bigtooth with red oak (log/xlog), trace red maple white pine, red pine in canopy and a simplified subcanopy of medium stocked balsam fir and white pine with trace red maple and red pine. North third is a red and white pine mix with red maple, oak, and aspen. Wet drainage in center with legacy red and white pine and a pocket of dense hemlock (log/pole/xlog/sap) on the east side of the drainage.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
19	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.9	82	141-170	N/A	Trace white pine, red maple, white ash in canopy. Rare balsam fir, white ash, honeysuckle in subcanopy. Trace scattered xlog bigtooth aspen and red oak. Some rather steep slopes. Land Use Order prohibits use of two track/trail along the north edge and northeast interior of this stand and should be monitored for compliance.																																																																					
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20	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	206.1	84	81-110	N/A	Rare huckleberry, stiff clubmoss, trailing arbutus, white spruce, bearberry in subcanopy. Observed two white pine mixing with canopy, three Xlog red pine. Gaps contain decent advanced regeneration, a mix of oak, aspen, jack pine, and red maple across the stand. Most canopy oak is multi-stemmed, low grade. Heavy browsing on oak and maple saplings. Landing in southwest has a high stocking of red pine saplings >20'.																																																																					
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21	42290 - Natural Mixed Pine	Sawtimber Well	2.6	133	111-140	N/A	Trace paper birch in canopy. Drainage through stand originating in the east and flowing SW. Small wet depression in east supports alder, cedar, red maple, quaking aspen. Some two aged quaking aspen red oak, red maple on perimeter and a little in the stand itself. Red maple and cedar are more mid-canopy under supercanopy red and white pine. Deer yarding in stand. Rare red oak, black spruce in subcanopy. Small band of Au Gres Sand.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22	4310 - Pine, Oak Mix	Sawtimber Medium	24.3	102	81-110	N/A	Trace red maple, bigtooth aspen in the canopy. Rare hawthorn, white ash, striped maple, pipsissewa, round leaved dogwood in subcanopy. Red maple and oak are generally 5-20' plus heavily browsed stems <7'. Hawthorn and white ash are associated. Aspen might mix with canopy a bit in the next inventory cycle.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		44	Log/Pole/XLog	12		Serviceberry (Juneberry)		Medium	Variable	Sapling	
Red Oak		55	Log/Pole/XLog	12	102	Wintergreen		Trace	< 5 feet	Tall Shrub	
White Pine		1	Log/Pole	10		Sweet Fern		Trace	< 5 feet	Tall Shrub	
						White Pine		Medium	Variable	Sapling	
						Beech		Low	Variable	Sapling	
						Maple Leaved Viburnum		Low	< 5 feet	Tall Shrub	
						Red Pine		Low	Variable	Sapling	
						Red Maple		High	Variable	Sapling	
						Balsam Fir		Trace	Variable	Sapling	
						Red Oak		Medium	Variable	Sapling	
						Bracken Fern		Low	5 - 10 feet	Non-Wood	
						Bigtooth Aspen		Medium	>20 feet	Sapling	
						Blueberry/Bilberry/Cranberry		Trace	< 5 feet	Tall Shrub	

23	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	24.6	101	111-140	N/A	Trace jack pine in canopy (scattered jp snags present). Rare round leaved dogwood, honeysuckle, black cherry, white ash in subcanopy. Most red maple is midcanopy pole, occasional canopy log/pole, largely suppressed by bigtooth aspen. Aspen is very solid. Scattered relic red pine. East ridgelines and section line trail contains trace dogwood, hawthorn, honeysuckle, and white ash (on southwest aspect). Scattered charred stumps. Few pockets of dense red pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole/Log/Sap	7		Red Pine		Low	Variable	Sapling	
Red Oak		35	Log/Pole/XLog	14	101	Maple Leaved Viburnum		Trace	< 5 feet	Tall Shrub	
Bigtooth Aspen		29	Log/Pole/XLog	14		Red Pine		Trace	>20 feet	Pole	
Red Pine		30	Log/Pole/XLog	14		Red Maple		Medium	Variable	Sapling	
White Pine		1	Log/Pole	12		Blueberry/Bilberry/Cranberry		Medium	< 5 feet	Tall Shrub	
						White Pine		Low	Variable	Sapling	
						Serviceberry (Juneberry)		Low	< 5 feet	Tall Shrub	
						Bracken Fern		Medium	Unspecified	Non-Wood	
						Balsam Fir		Trace	Variable	Sapling	
						Beech		Low	Variable	Sapling	
						Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub	
						Red Oak		Medium	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	4133 - Aspen, Mixed Pine	Sawtimber Well	6.1	92	81-110	N/A	Trace balsam fir, jack pine, quaking aspen in canopy. The long, narrow leg is dominated by bigtooth with consistent white pine and scattered red maple (trace red and jack pine). The northern portion has a wet pocket supporting cedar with log/xlog white pine and trace quaking aspen; to the north of that is a clump of legacy red and white pine, and the far north tip transitions to red oak with bigtooth. Rare bearberry, creeping juniper, sweet fern, maple leaved viburnum, trailing arbutus, and white spruce in subcanopy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	3	Log/Pole/XLog	14		Jack Pine	Trace		Variable	Sapling
Red Maple	5	Pole/Log	8		Northern White Cedar	Trace		>20 feet	Sapling
Red Oak	8	Log/Pole/XLog	14		Red Oak	Trace		Variable	Sapling
Northern White Cedar	1	Log/Pole	10		Bracken Fern	Low		Unspecified	Non-Wood
Bigtooth Aspen	63	Log/Pole	14	92	Balsam Fir	Medium		Variable	Sapling
White Pine	20	Pole/Log/XLog	8		Blueberry/Bilberry/Cranberry	Trace		< 5 feet	Tall Shrub
					Wintergreen	Low		< 5 feet	Tall Shrub
					White Pine	Medium		Variable	Sapling
					Red Maple	Low		Variable	Sapling
					Serviceberry (Juneberry)	Trace		5 - 10 feet	Sapling
					Red Pine	Trace		Variable	Sapling
25	4130 - Aspen	Poletimber Well	108.6	42	51-80	N/A		Two aged oak: 10% 7" Pole/log (40 yrs), 2% 22" Xlog/log (100 yrs (est)). Pockets of conifer and mature oak through stand; a lot more conifer inclusion in the north half than the south. Trace black cherry (with blackknot) and quaking aspen in the canopy. Rare jack pine, hawthorn in the subcanopy. Scattered canopy and subcanopy hemlock. Fairly significant mortality in jack pine when outcompeted by aspen. Incredible red pine growth - 12-18" of annual growth on many stems. Paper birch is associated with mature white pine.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Jack Pine	4	Pole/Sapling	7		Balsam Fir	Low	Variable		Sapling
Red Pine	5	Pole/Log	8		Serviceberry (Juneberry)	Low	5 - 10 feet		Sapling
White Pine	10	Log/Pole	12		Red Pine	Trace	Variable		Sapling
Paper Birch	1	Sapling/Pole	3		Hemlock	Trace	Variable		Sapling
Red Maple	3	Sapling/Pole	4		Bracken Fern	Low	Unspecified		Non-Wood
Red Oak	12	Pole/Sap/Log	7		White Spruce	Trace	< 5 feet		Sapling
Bigtooth Aspen	65	Pole/Sapling	6	42	Sweet Fern	Trace	< 5 feet		Tall Shrub
					Red Oak	Low	Variable		Sapling
					Black Cherry	Trace	Variable		Sapling
					Red Maple	Low	Variable		Sapling
					White Pine	Low	Variable		Sapling
26	4133 - Aspen, Mixed Pine	Sawtimber Well	15.8	93	51-80	N/A	Rare jack pine, paper birch in subcanopy. Jack pine most prominent in south; snagging out. Southwest edge is on a little ridge with a steep southwest slope into adjacent lowland. Scattered relic red pine. There's a low, wet pocket to the west of the center road stocked with cedar and white pine, trace alder; significant increase in subcanopy balsam fir, red maple, white pine, and white spruce. North tip is heavy to white pine and red oak with red pine and some bigtooth aspen (trace black cherry and quaking aspen).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	4	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
Red Oak	20	XLog/Log/Pole	18		Northern White Cedar	Trace		Variable	Sapling
Jack Pine	5	Log/Pole	12		Red Pine	Trace		Variable	Sapling
Northern White Cedar	1	Log/Pole	14		White Spruce	Low		Variable	Sapling
White Pine	12	Log/Pole/XLog	14		White Pine	Trace		Variable	Sapling
Red Pine	8	Log/Pole/XLog	14		White Pine	Trace		>20 feet	Pole
Bigtooth Aspen	50	Log/Pole/XLog	12	93	Beech	Low		Variable	Sapling
					Sweet Fern	Trace		< 5 feet	Tall Shrub
					Red Maple	Low		Variable	Sapling
					Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
					Red Oak	Low		Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27	6120 - Lowland Cedar	Poletimber Well	4.0	93	51-80	N/A	Around 75% canopy closure, variable across the stand. Trace balsam poplar in canopy. Rare cedar, red maple, red oak in subcanopy. Scattered yellow birch and black ash snags. Amazing hemlock in far northwest with a good amount of paper birch saplings. Very dense subcanopy (balsam fir, white spruce, hemlock, paper birch) in general northwest. Some very tall alder (>20') in southwest. South edge has been surveyed, lathed, and brushed 4-6' wide. East half is more solidly and consistently cedar with an inclusion of larch. Much less diversity in both the main and sub- canopies. Trace willow in southeast. Stand sits atop Tawas Peat.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		1	Pole/Log	8		White Spruce		Trace	Variable	Sapling	
Tamarack		5	Log/Pole	12		Paper Birch		Low	>20 feet	Sapling	
Quaking Aspen		8	Log/Pole/XLog	16		Labrador Tea		Low	< 5 feet	Tall Shrub	
White Spruce		3	Log	14		Hemlock		Low	Variable	Sapling	
Northern White Cedar		60	Pole/Log	8	93	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Red Maple		2	Log/Pole	12		Balsam Fir		High	Variable	Sapling	
Hemlock		2	XLog/Log	18		Tamarack		Trace	5 - 10 feet	Sapling	
Black Spruce		5	Log/Pole	12		Northern White Cedar		Low	Variable	Sapling	
White Pine		1	XLog	22							
Balsam Fir		13	Pole/Log	8							

28	4310 - Pine, Oak Mix	Sawtimber Poor	4.6	101	51-80	N/A	50% overstory remaining, pretty even mix of oak and pine. One canopy white pine (and scattered white pine saps around the seed source) in southeast. Fairly steep hill in southeast. West edge is a plateau with some slopes. Rare balsam fir, white pine, sweet fern, maple leaved viburnum in subcanopy. Heavy browsing on subcanopy oak and some red maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		55	Log/Pole/XLog	14	101	Red Oak		Medium	Variable	Sapling	
Red Pine		45	Log/Pole	13		Bracken Fern		Medium	Unspecified	Non-Wood	
						Red Pine		Low	Variable	Sapling	
						Bigtooth Aspen		High	>20 feet	Sapling	
						Serviceberry (Juneberry)		Low	Variable	Sapling	
						Blueberry/Bilberry/Cranberry		Medium	< 5 feet	Tall Shrub	
						Red Maple		High	Variable	Sapling	

29	4310 - Pine, Oak Mix	Sawtimber Medium	31.7	92	51-80	N/A	Rare witch hazel and white spruce in the subcanopy. Sweet fern and bracken present. Sapling aspen will probably make canopy next cycle. Nice sapling/pole oak mixed with aspen in spots. Elk beds in southeast.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Pole	8		Red Oak		Medium	Variable	Sapling	
Red Pine		48	Log/Pole/XLog	14	94	Red Pine		Trace	Variable	Sapling	
Red Oak		50	Log/Pole/XLog	16	92	Bigtooth Aspen		High	>20 feet	Sapling	
						Serviceberry (Juneberry)		Medium	Variable	Sapling	
						Balsam Fir		Low	Variable	Sapling	
						Beech		Low	Variable	Sapling	
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30	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	23.1	93	111-140	N/A	Trace jack pine (snags), white pine in canopy. Rare white pine, jack pine, sweet fern in subcanopy. Subcanopy red pine are largely suppressed individuals from the parent stand, not subsequently established. Hawthorn is mostly present on ridges. Steepest slopes are occupied by pole bogtooth aspen with log/pole red pine (natural). X log oak along ski trail. One juniper clump.																																																																								
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31	4311 - Pine, Aspen Mix	Poletimber Medium	27.3	42	1-50	N/A	Trace black cherry in canopy. Rare juniper (in far east), white spruce in subcanopy. Varying densities of jack pine and aspen with oak. More white pine present in north-central portion.																																																																								
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32	4130 - Aspen	Poletimber Well	12.6	35	51-80	N/A	Trace white pine in canopy. Rare hawthorn, witch hazel, balsam fir in subcanopy. Higher prevalence of jack pine snags in southwest. Pockets of the stand are still sapling dominated. Northwest corner is jack pine and red pine dominated with about 25% bta. Small pocket in the middle along the south edge of stand is dominated by incredibly dense red pine saplings >20'.																																																																								
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33	3102 - Grass	Nonstocked	17.2		Unspecified		Utility line corridor, maintained.																																																																								



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34	4123 - Red Oak	Sawtimber Medium	63.4	103	51-80	N/A	<p>Trace jack pine, red maple, bigtooth aspen in canopy. Rare witch hazel, huckleberry, sweet fern, serviceberry, juniper, beech, jack pine in subcanopy.</p> <p>Stand is in an intermediate phase where second aged (sapling) aspen is beginning to mix with the canopy, though more shaded areas are slower to achieve midcanopy position. Red maple can't keep up with aspen (and is browsed), generally ranging 5-20', though some open grown maple are >20'. Aspen is mostly >20'.</p> <p>North 1/2 is 3% wp, 2% rp, 95% ro (maybe 2% sapling bta) with a very simple subcanopy - a few pockets of aspen and red maple, but very open with scattered red pine, white pine, balsam fir, and trace oak. No serviceberry in north.</p> <p>South 1/2 is 15% rp, 2% wp, 2% bta saps, 81% ro. Higher volume and more consistent sapling subcanopy including red pine and oak saps. Trace juniper.</p> <p>Scattered legacy red pine especially in the southern quarter of the stand.</p>																																																																		
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35	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.9	93	81-110	N/A	<p>Trace red maple and jack pine in canopy.</p> <p>Wintergreen under snow in places, likely more prevalent than observed in winter. Trace scattered relic red pine and oak, very wolfy. Trace sweet fern associated with jack pine in north central portion of stand. Areas of advanced red maple and oak regeneration >20'; aspen is patchy and inconsistent.</p>																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
37	3103 - Rubus-Fern	Nonstocked	69.3	0	Unspecified	4211 - Planted Red Pine	Trenching for the planting of red pine was completed on 5/29/22. Few scattered oak, aspen, red maple >3'. ORV/dirtbike trails through stand. Ski trail through stand. This site was site prepped by the mulching machine on 11/30/21. Older comments: -a lot of recreational use -LOADED WITH RM (70-80% coverage), more extreme to west where site quality becomes better, needs to be controlled																																																							
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38	4131 - Aspen, Oak	Sawtimber Well	7.9	86	111-140	N/A	Trails through and on perimeter of stand. A lot of suppressed red pine (large pole, small logs); not as much red pine in the canopy as BA would lead you to believe. Porcupine present. Northwest in heavy to red pine, as is the east perimeter.																																																							
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39	4131 - Aspen, Oak	Poletimber Well	38.3	35	81-110	N/A	Trace scattered log/Xlog white pine and red oak from parent stand. Trace paper birch in canopy confined to the east half. Ridge in center of stand could be its own stand: much more oak and pine; pine is especially prevalent on the west end of the ridge. Trace huckleberry associated with pine. Rare witch hazel and beech in subcanopy. Most subcanopy red pine is >20' and suppressed, but there are some intermediate heights. One white spruce (pole) in northwest. Aspen diameters in northwest (and continuing down the west edge) are slightly smaller with a higher stocking of black cherry in the subcanopy. Along the eastern edge of the southwest quadrant, there's an increase in subcanopy white pine and maple leaved viburnum and significantly less oak in canopy.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
40	4131 - Aspen, Oak	Poletimber Well	3.2	48	51-80	N/A	Trace paper birch in canopy. Rare white spruce, paper birch in subcanopy. Trace subcanopy hemlock in northeast tip to be protected. Aspen origin 1974, two oak and maple cohorts (1972 and 1935). Red pine is generally of the 1930s cohort; white pine ages are variable.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		30	Pole/Log/XLog	8		Hemlock		Trace	>20 feet	Sapling
Bigtooth Aspen		45	Pole/Sap/Log	8	48	Balsam Fir		Low	Variable	Sapling
Red Maple		10	Pole/Sap/Log	6	87	Red Maple		Low	Variable	Sapling
White Pine		3	Log/Pole	14		Beech		Trace	5 - 10 feet	Sapling
Red Pine		12	Log/XLog	14		Red Oak		Low	Variable	Sapling
						Serviceberry (Juneberry)		Low	< 5 feet	Sapling
						Red Pine		Trace	< 5 feet	Sapling
41	4133 - Aspen, Mixed Pine	Poletimber Well	37.0	56	81-110	N/A	Trace jack pine (pole/log) and white pine in canopy. Rare white pine, juniper in subcanopy. Serviceberry is much more dense under aspen poles than under oak or red pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		25	Log/Pole/XLog	12		Serviceberry (Juneberry)		Low	Variable	Sapling
Bigtooth Aspen		43	Pole/Sap/Log	7	56	Red Pine		Low	Variable	Sapling
Red Maple		2	Pole/Log/Sap	6		Beech		Trace	10 - 20 feet	Sapling
Red Pine		30	Log/Pole/XLog	12	77	Maple Leaved Viburnum		Trace	< 5 feet	Tall Shrub
						Red Oak		Low	Variable	Sapling
						Red Maple		Medium	Variable	Sapling
42	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	20.5	58	81-110	N/A	The inclusion of hemlock in such a notable capacity is rare for this portion of the compartment; the age and size of the red and white pine is also a rarity. This is a three-aged stand with very distinct cohorts: legacy Xlog/log red and white pine (and a few exceptional oak) 180+ years old, likely upwards of 200; oak/aspen/red maple/red pine log/pole at 116 years old; aspen/red maple/oak pole/sap of 53 years old. There is even a cohort of 87 year old aspen (log). Trace cedar mixed in amongst pockets of hemlock, generally occupying small depressions, though not necessarily wet. Trace paper birch, quaking aspen associated with the hemlock pockets, too. Rare striped maple in the subcanopy. Subcanopy hemlock is generally patchy, in pockets around mature hemlock. There's a little draw in the north dropping from east to west, originating with stand 50. Corridor is heavy to Xlog red/white pine with lesser amounts of cedar, hemlock, paper birch, and basswood. Wetter areas are on top of Mucky Sand, a semi-circular deposit from the east-central portion arching north and east into adjacent stand 50. Ages: -180 years + on a 25" dbh red pine (couldn't get to center) -116 years on a 17.5" bta - notable increase in growth approx 60 years ago -103 year old 5.7" red maple - probably same cohort as log aspen, just suppressed -87 year old 11.6" bta -58 year old 7.7" bta with decent, consistent growth			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		2	Log/XLog/Pole	12		White Pine		Low	Variable	Sapling
Red Maple		11	Pole/Sap/Log	6	116	Balsam Fir		Low	Variable	Sapling
Bigtooth Aspen		29	Pole/Log/Sap	8	58	Red Pine		Trace	Variable	Sapling
Red Oak		26	Pole/Log/XLog	8		Hemlock		Low	>20 feet	Sapling
White Pine		16	XLog/Log	20		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub
Red Pine		16	XLog/Log/Pole	18	180	Red Maple		Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43	4310 - Pine, Oak Mix	Sawtimber Medium	1.9	74	111-140	N/A	Gentle west slope transitioning into lowland in west. Two xlog hemlock (20, 24").	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sap/Log	7	82	Paper Birch	Trace	>20 feet	Sapling
Bigtooth Aspen	10	Pole/Sapling	7	48	Red Maple	Low	Variable	Sapling
Red Oak	41	Pole/Log	8		Red Oak	Medium	Variable	Sapling
Hemlock	1	XLog	24		Balsam Fir	Medium	Variable	Sapling
Red Pine	43	Log/XLog	16	74				

44	6124 - Lowland Spruce-Fir	Poletimber Medium	10.6	102	81-110	N/A	Southeast half is extremely wet (50% standing water) with lower stocking dominated by cedar, black spruce, and balsam fir. Northwest half is still very wet, but not as hummocky and not as much surface water. Trace black ash and paper birch in canopy, rare black ash and paper birch in subcanopy. Rare hemlock in northwest half; most hemlock is confined to the southeast-east edge adjacent to stand 46. Shinleaf and thistle, one tiny yew present. Fairly decent balsam fir and black spruce stocking with white cedar, scattered larch. Red maple, quaking aspen black ash, bam, and paper birch are primarily on the road/stand edges with a slight increase in topography. Strip southwest of road is a drainage ditch with larger diameters, more balsam poplar. Utility line: red osier dogwood, cattails, bulrush, labrador tea, ferns, balsam fir, willow, bam, alder. Stand is atop Roscommon Muck.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	1	Log	16		Grape Vine	Trace	Unspecified	Vine
Balsam Poplar	1	Pole	7		Wintergreen	Low	< 5 feet	Tall Shrub
Black Spruce	20	Pole/Sap/Log	6		Labrador Tea	Medium	< 5 feet	Tall Shrub
Balsam Fir	30	Sapling/Pole	4		Creeping Snowberry	Trace	< 5 feet	Tall Shrub
Larch (non-native)	10	Pole/Log	8		Cattail spp.	Trace	5 - 10 feet	Non-Wood
Northern White Cedar	35	Pole/Sap/Log	8	102	Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	2	Pole/Log/Sap	7		Red Maple	Trace	Variable	Sapling
Red Maple	1	Pole/Log/Sap	6		Northern White Cedar	Low	Variable	Sapling
					Tag Alder	Medium	Variable	Tall Shrub
					Willow spp.	Medium	10 - 20 feet	Tall Shrub
					Black Spruce	Low	Variable	Sapling
					Tamarack	Trace	< 5 feet	Sapling

45	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	3.4	92	1-50	N/A	Original stand was split into two stands. This used to be part of 8. Trace hemlock, paper birch, quaking aspen in canopy. Rare cedar, red oak, wild raisin, hemlock in subcanopy. Balsam fir subcanopy is very dense in areas. Lowland shrubs become more prominent in the west. East half is more upland. Fairly significant changes in covertime from east to west.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	3	Log/Pole	12		Tag Alder	Trace	Variable	Tall Shrub
Red Pine	2	XLog/Log	18	92	Red Maple	Trace	Variable	Sapling
Bigtooth Aspen	34	Log/XLog	14		White Spruce	Trace	< 5 feet	Sapling
White Pine	1	Log/Pole/XLog	10		Balsam Fir	High	Variable	Sapling
White Spruce	5	Log/Pole	12		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Maple	49	Log/Pole	12	92	Paper Birch	Trace	>20 feet	Pole
Balsam Fir	5	Log/Pole	10					
Quaking Aspen	1	Log/XLog	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
46	4310 - Pine, Oak Mix	Sawtimber Well	24.3	87	81-110	N/A	Southwest edge occupies a southwest facing hillside and hilltop. Composition is more complex on the slope, especially towards the bottom of the slope with influence from the adjacent lowland. Balsam fir, cedar, paper birch, black spruce, and hemlock are present in the canopy along the slope, generally not in the main body of the stand (though hemlock is present in the south). Pretty dense balsam fir subcanopy on hillside, but low stocking through the rest of the stand. Consistent scattered legacy red pine, potential legacy red oak as well. Appears as though there was a red maple removal in the eastern portion of the stand in the early 1990s. Rare trailing arbutus in subcanopy. Many age and size classes represented.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	45	Log/XLog/Pole	14	87	Red Maple	Low		Variable	Sapling
Bigtooth Aspen	10	Log	14		White Pine	Low		Variable	Sapling
Red Pine	40	Log/XLog/Pole	16	104	Wintergreen	Low		< 5 feet	Tall Shrub
Red Maple	2	Pole/Sap/Log	7	52	Pipsissewa	Trace		< 5 feet	Tall Shrub
White Pine	3	Log/Pole/XLog	10		Red Pine	Medium		Variable	Sapling
					Hemlock	Trace		Variable	Sapling
					Balsam Fir	Low		Variable	Sapling
					Black Spruce	Trace		Variable	Sapling
47	42110 - Planted Red Pine	Sawtimber Medium	1.8	84	111-140	N/A	West side was planted, east side is natural red pine. Scattered relic red pine in east third. Two cohorts: first is red pine and oak (84 years old) + scattered legacy trees (120 years+/-); second is bigtooth aspen, red maple, red oak (53 years). Rare red pine, paper birch, black cherry in subcanopy. Scattered jack pine, mostly snags but a couple living.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	6	Pole/Sap/Log	7	53	White Pine	Trace		Variable	Sapling
Red Oak	4	Log/Pole	12		Beech	Trace		5 - 10 feet	Sapling
Bigtooth Aspen	1	Pole/Log	8	53	Red Oak	Low		Variable	Sapling
Red Pine	89	Log/XLog	16	84	Bracken Fern	Trace		Unspecified	Non-Wood
					Balsam Fir	Trace		Variable	Sapling
					Blueberry/Bilberry/Cranberry	Trace		< 5 feet	Tall Shrub
					Red Maple	Medium		>20 feet	Sapling
48	122 - Road/Parking Lot	Nonstocked	8.3		Unspecified	No	Doriva Beach Road: paved, plowed, maintained county road with broad shoulders.		
49	4133 - Aspen, Mixed Pine	Poletimber Well	11.1	49	111-140	N/A	All deciduous species are two aged. Two cohorts: red pine (planted), red oak, white pine, bigtooth aspen (trace log/pole), red maple (2% log/pole) origin 1928. Second age aspen, red maple (5% pole/sap) origin 1974. Still smaller diameter on aspen (small poles). Trace huckleberry in southeast. Balsam fir, white pine subcanopy is more common along the north utility line edge. West wedge is heavier to oak and red pine. Trace beech in the canopy. Presence of hazelnut in this capacity is unique for this compartment.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	7	Pole/Sap/Log	5		Red Maple	Low		Variable	Sapling
Red Oak	20	Log/Pole/XLog	12		Balsam Fir	Trace		Variable	Sapling
Bigtooth Aspen	45	Pole/Sap/Log	7	49	Beech	Low		Variable	Sapling
White Pine	1	Log/XLog	14		White Pine	Trace		Variable	Sapling
Red Pine	27	Log/XLog/Pole	16	94	Huckleberry	Trace		< 5 feet	Tall Shrub
					Serviceberry (Juneberry)	Low		5 - 10 feet	Tall Shrub
					Hazelnut (American)	Low		5 - 10 feet	Tall Shrub



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

50 6132 - Mixed Lowland Forest with Cedar Sawtimber Medium 6.5 94 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log/XLog	16	
Red Oak	2	Log/XLog	14	
Paper Birch	4	Log/Pole	10	
Quaking Aspen	8	Pole/Log/Sap	8	
Balsam Fir	15	Pole/Log	8	
Basswood	1	Log/Pole	14	
Northern White Cedar	33	Log/Pole/XLog	14	105
Red Maple	33	Log/Pole/XLog	14	94
Balsam Poplar	2	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Trace	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Striped Maple	Trace	10 - 20 feet	Sapling
Northern White Cedar	Trace	Variable	Sapling
Mountain Maple	Trace	10 - 20 feet	Sapling
Green Ash	Trace	Variable	Sapling
Red Maple	Trace	Variable	Sapling

A very unique stand by this compartment's standards. Basswood, green ash, yellow birch, mountain maple, alternate leaved dogwood, striped maple are all rarities for this compartment. BAs vary significantly across the stand. Trace yellow birch, hemlock in canopy. Rare bulrush, cattail, alternate leaved dogwood, hemlock in subcanopy. "Supercanopy" red maple, red oak, red pine; midcanopy cedar, balsam fir. Paper birch and ash snags. Few cavities in the cedar. A lot of small critters are present in this stand. North of utility line corridor is dominated by sap/pole cedar, bam, paper birch, red maple with an increase in logs to the east. Slightly wetter. Stand is on top of mucky sand.

51 4130 - Aspen Sapling Well 21.5 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	3	Log/XLog	14	
White Pine	5	Pole/Log/Sap	8	
Red Pine	10	Log/Pole/Sap	12	94
Bigtooth Aspen	75	Sapling	1	5
Red Maple	5	Sapling	1	
Balsam Fir	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Sapling
Northern White Cedar	Trace	10 - 20 feet	Sapling
Sweet Fern	Trace	< 5 feet	Tall Shrub
Wintergreen	Low	< 5 feet	Tall Shrub
Red Maple	Low	< 5 feet	Tall Shrub
Balsam Fir	Trace	Variable	Sapling
Bracken Fern	High	Unspecified	Non-Wood
Red Pine	Low	Variable	Sapling
Blueberry/Bilberry/Cranberry	Trace	< 5 feet	Tall Shrub
Hemlock	Trace	10 - 20 feet	Sapling

Harvested in April of 2017; residual log/pole/sap/Xlog pine and oak. Northwest half is 75% forested, bta saplings with residual red and white pine of various ages and size classes. Southeast half is 80% forested, bta saplings with a higher density of residual red pine. Trace hemlock, black spruce, and cedar in the canopy (on southwest edge of stand). Rare jack pine, trailing arbutus, bearberry, white spruce, and black spruce in the subcanopy. Subcanopy red maple is heavily browsed into a shrub form.

52 42110 - Planted Red Pine Sawtimber Medium 8.6 88 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	2	Pole	6	
Red Pine	98	Log/XLog	16	88

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Trace	< 5 feet	Sapling
Red Oak	Medium	Variable	Sapling
Bigtooth Aspen	Low	Variable	Sapling
Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
Red Maple	High	Variable	Sapling

Trace oak, red maple in canopy. Rare balsam fir in subcanopy. Trace raspberry, bracken, sweet fern in southeast adjacent to trail 18.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53 4123 - Red Oak Sawtimber Well 44.0 78 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole/Log/Sap	6	
White Pine	2	Log/Pole/XLog	14	
Red Pine	25	Log/XLog/Pole	14	124
Red Oak	60	Log/Pole/XLog	14	78
Bigtooth Aspen	10	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Hemlock	Trace	>20 feet	Pole
Balsam Fir	Low	Variable	Sapling
Red Pine	Medium	Variable	Sapling
Red Oak	Low	Variable	Sapling
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Bracken Fern	Trace	Unspecified	Non-Wood
Red Maple	Low	Variable	Sapling
Hemlock	Trace	>20 feet	Sapling
Striped Maple	Trace	10 - 20 feet	Sapling

Trace jack pine in canopy. Rare beech, juniper, sweet fern in subcanopy. Really nice dense pine subcanopy surrounding trailhead. Gypsy moth egg masses present. Scattered legacy red pine; high visual and wildlife value. Scattered bigtooth and oak snags. High amount of wildlife activity and cavity usage. Unique pocket in the northwest with Xlog red pine, L/X/pole white pine with trace quaking aspen; hemlock nearby. The northern most acreage diverges into oak dominated with less aspen and increased red maple and white pine. Significant decline in pine subcanopy; higher inclusion of balsam fir and red maple.

Land Use Order prohibits use of two track/trail through the northern half of this stand and should be monitored for compliance.

54 4122 - Oak, Pine Sawtimber Medium 49.2 117 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	60	Log/Pole/XLog	14	117
Red Pine	40	Log/Pole	12	81

Sub-Canopy Species	Density	Avg. Height	Size
Sweet Fern	Low	< 5 feet	Tall Shrub
White Pine	Trace	Variable	Sapling
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Red Oak	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	Medium	>20 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Red Pine	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Bracken Fern	Low	Unspecified	Non-Wood

Trace red maple (pole), bigtooth (log/pole), and white pine (log/pole) in canopy. Very few relic red pine, ~150 years old. Rare balsam fir in subcanopy, generally >20'. Very few scattered jack pine saplings/poles, shaded out and majority are dead. Stand is on a decent SSW slope, plateaued at top. Ski trails present. Clumpy red pine and aspen regeneration; fully stocked in some areas, low scattered stocking elsewhere. Oak regen is multi-stemmed and very clumpy. Most aspen is >20' except under dense residual cover where it's still 10-20'. Some for red pine, except suppressed individuals are 5-20'. Slightly higher residual BA on hillside. Many active burrows on the plateau in the north half.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
55	42210 - Natural Red Pine	Sawtimber Poor	9.8	88	1-50	N/A	Trace oak and bigtooth aspen in canopy. One tiny hemlock sapling in northwest. Red pine decline on northeast hilltop and south-central slope. South quarter of stand is white pine dominated with a significant increase in white pine regen under the seed source. Increased maple leaved viburnum associated with white pine.																																																																										
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56	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.7	93	81-110	N/A	Trace white pine in canopy. Trace white pine and red pine regeneration in gaps; suppressed older sapling/pole red pine scattered. Scattered senescing aspen. Tiny topographic variation from west to east with a small but distinct ridgeline and some very large boulders on crest. Some areas with heaviest browse have saplings still <5'. Not much reportable midcanopy. Lower quality oak and aspen. Valuable stand for cavity dwelling wildlife.																																																																										
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57	42210 - Natural Red Pine	Sapling Medium	5.6	25	Immature	N/A	Patchy stand of very dense natural red pine saplings with scattered jack and white pine. Herbicide application in 2021 to surrounding red pine plantation knocked back red oak and red maple (both canopy and subcanopy) and trace aspen. All were insignificant components of the canopy and are now even lesser components of an already simple subcanopy.																																																																										
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58	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	14.7	89	81-110	N/A	Trace scattered jack pine in the northeast. Trace white pine in canopy. Rare balsam fir, bigtooth aspen, and beech in the subcanopy. Jack pine seem to be preferred nesting trees. Be alert to active nests. Few ground dwelling animals in this stand, too.																																																																									
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59	4310 - Pine, Oak Mix	Sawtimber Well	28.3	101	81-110	N/A	More stems per acre of red pine than oak, but oak crowns occupy more canopy space. Trace white pine, sugar maple, jack pine in canopy. Blackknot present on cherry brush. Trace paper birch snags in northwest; 5-13 year seed viability in the seedbank. Trace sweet fern along dirtbike trail. Trace Xlog oak in southeast. Small pocket of red pine mortality in south central should be observed by forest health personnel.																																																																									
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60	4310 - Pine, Oak Mix	Sawtimber Well	16.7	94	111-140	N/A	Multiple age classes represented. 1889 year of origin oak and red pine (Xlog/log); red pine interplanted planted in 1928; 1946 removal harvest (resulting in cohort of aspen, red maple); 1994 red pine and red maple thinning resulting in subcanopy maple, oak, and pine. Lesser quality oak and aspen with some senescence in both. Rare juniper in northeast. Rare striped maple. A flatter stand with a little bit of topography to the south edge.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
61	4133 - Aspen, Mixed Pine	Poletimber Well	33.1	49	111-140	N/A	<p>Two aged stand: Red pine planted in 1931 amongst natural oak (log/xlog) (trace aspen log/xlog). Aspen (P/L/S), red maple (P/S), and oak (P/L/S) cohort from 1972 removal. Xlog oak prevalent along the utility line. Cavities in bigtooth aspen. Maple leaved viburnum by ski trail in northwest. Small clump of sugar maple saplings associated with bigtooth, white pine, striped maple, and MLV. Trace paper birch, jack pine, sugar maple in canopy. Rare red pine, white spruce, striped maple in subcanopy. Easternmost acreage and south of the utility line are very much still pole dominated with a much less complex subcanopy (rather sparse with scattered red maple in the east; red maple with trace white pine, bf, serviceberry, and mlv in the south). West log-dominated area is messier, has a higher stocking of red pine, and has more diversity in general.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Log/Sap	6		Paper Birch	Trace		>20 feet	Sapling
Bigtooth Aspen	44	Pole/Log	7	49	White Pine	Trace		Variable	Sapling
White Pine	2	Log/XLog	16		Balsam Fir	Trace		Variable	Sapling
Red Pine	24	Log/XLog/Pole	14	91	Maple Leaved Viburnum	Low		< 5 feet	Tall Shrub
Red Oak	20	Pole/Log/XLog	8		Beech	Trace		5 - 10 feet	Sapling
					Serviceberry (Juneberry)	Low		5 - 10 feet	Tall Shrub
					Red Maple	Medium		Variable	Sapling
62	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	18.5	84	111-140	N/A	<p>Trace white pine and red maple in the canopy. Rare bearberry, juniper, maple leaved viburnum, balsam fir, jack pine in the subcanopy. Pretty decent valley in northwest. "Free-to-grow" second aged aspen is 3-4" dbh and 30'. Those growing with denser residual are 2", around 20' or less. Canopy bigtooth aspen (from parent stand) present along east edge, one to two chains in from the road, is 16" log/Xlog, likely left for visual management when harvested in the 1990s. Interior aspen, parent cohort, is 10-12" dbh. Trailhead in adjacent compartment across road.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	3	Log/Pole/XLog	12		Bigtooth Aspen	Low		>20 feet	Sapling
Red Pine	65	Log/Pole/XLog	14	84	Wintergreen	Trace		< 5 feet	Tall Shrub
Red Oak	32	Log/Pole/XLog	14		Bracken Fern	Low		Unspecified	Non-Wood
					Red Pine	Low		Variable	Sapling
					Serviceberry (Juneberry)	Low		Variable	Sapling
					White Pine	Trace		Variable	Sapling
					Red Oak	Medium		Variable	Sapling
					Red Maple	Medium		10 - 20 feet	Sapling
63	4199 - Other Mixed Upland Deciduous	Poletimber Well	1.8	48	81-110	N/A	<p>Two aged stand, unable to represent as such in MiFI: 103 year old (parent stand at 25% total canopy occupancy, L/X oak, pine, aspen), 48 year old (second age at 75% canopy occupancy, pole/sap oak, aspen, maple). Two very small islands with distinct topographic knobs. Very challenging to represent in MiFI. South island is two aged, dominated by oak (49% X/L, 40% P/S) with red maple (1% L/P, 9% P/S) and aspen (1% pole). North island is also two aged: oak (10% X/L, 25% P/S), aspen (9% L/P, 25% P/S), red maple (1% L, 5% P/S), and red pine (15% P/L). Trace white pine, blueberry, and balsam fir in the subcanopy of the north island. Small burrows in south island - active.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Sap/Log	5		Bigtooth Aspen	Medium		Variable	Sapling
Red Oak	50	Pole/Log/Sap	6	48	Serviceberry (Juneberry)	Low		Variable	Tall Shrub
Bigtooth Aspen	28	Pole/Sap/Log	6		Red Maple	High		Variable	Sapling
Red Pine	12	Pole/Log	8		Pines (spp.)	Low		Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64	42210 - Natural Red Pine	Sawtimber Medium	1.4	88	111-140	N/A	Stems not affected by browse are 10-20'; other are <10. Rare white pine in subcanopy. This is long term retention for stand 65.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/XLog	14		Bracken Fern	Medium	Unspecified	Non-Wood
Red Pine	95	Log/XLog/Pole	14	88	Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
					Serviceberry (Juneberry)	Medium	Variable	Sapling
					Wintergreen	Low	< 5 feet	Tall Shrub
					Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
					Red Oak	Medium	Variable	Sapling
					Beech	Trace	5 - 10 feet	Sapling
					Bigtooth Aspen	Trace	10 - 20 feet	Sapling
					Red Pine	Trace	< 5 feet	Sapling
					Red Maple	High	Variable	Sapling
					Sweet Fern	Low	< 5 feet	Tall Shrub

65	3102 - Grass	Nonstocked	131.7	0	Unspecified	4211 - Planted Red Pine	Observed stand in April 2022. Few scattered natural red, white, and jack pine volunteers. Survivorship of planted pine seems pretty good. Stand has been sprayed but there's some red maple and bigtooth competition. Trace scattered log sized red and white pine in south. 5 acre pocket in southeast of natural red pine (not trenched or planted), now stand 57. Stand boundaries will need to be adjusted after treatment is passed. FTP C54-1094 Roller Chopped on 6/20/17 Herbicide Application on 8/8/2018 Trenched on 10/30/2018: Lots of steep hills requiring additional time; steep areas were not identified on the map Planted 5/14/2019 at 974 TPA with half 3-0 and half 4-0 bare root stock. Year 1 survey has only 550 TPA with 95% FTG. Trenches starting to fill in with sedge. Aerial release herbicide application completed 9/19/21.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	< 5 feet	Sapling
Red Oak	Low	Variable	Sapling
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Sweet Fern	Low	< 5 feet	Tall Shrub
Bracken Fern	Medium	Unspecified	Non-Wood
Bigtooth Aspen	Trace	Variable	Sapling
Red Pine	Full	< 5 feet	Sapling

66	42110 - Planted Red Pine	Sawtimber Well	18.3	84	111-140	N/A	Trace red maple, quaking aspen, white pine in canopy. Rare white pine in subcanopy. Scattered jack pine snags in southwest. Species removal about 30 years ago. Very decent advanced oak regeneration, especially considering browsing pressures throughout the compartment. More diversity in southwest with less red pine, moer oak, maple, and trace aspen. Densest blueberry resulted in no serviceberry or red maple subcanopy - just oak (and an increase in balsam fir saplings on the perimeter of the blueberry). Smaller diameters in south and again in the very north, but generally increasing diameters from south to north.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log/XLog	16		Red Maple	Medium	Variable	Sapling
Red Pine	98	Log/Pole/XLog	16	84	Red Oak	High	Variable	Sapling
					Serviceberry (Juneberry)	Low	Variable	Sapling
					Balsam Fir	Trace	Variable	Sapling
					Blueberry/Bilberry/Cranberry	Trace	< 5 feet	Tall Shrub
					Black Cherry	Trace	5 - 10 feet	Tall Shrub
					Bigtooth Aspen	Trace	>20 feet	Sapling
					Beech	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
67	4130 - Aspen	Poletimber Well	6.3	43	81-110	N/A	Rare beech in the subcanopy. Red maple couldn't quite keep up with aspen and there is a large volume of suppressed individuals. Two aged oak, scattered Log + pole cohort. West edge of stand is on loamy sand; rest is sand.																																																									
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68	4130 - Aspen	Sapling Medium	7.4	3	Immature	N/A	North edge is a clump of residual sap/pole/log red oak, sap red maple, log/pole red pine. Oak and maple are heavily browsed, multi-stemmed, unlikely to maintain any kind of measurable canopy status while the stand matures. Rare beech in subcanopy. Spotted knapweed along road. Scattered residual sapling oak, maple, and red pine throughout the stand in negligible quantities. More red maple to the north of the road.																																																									
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69	3103 - Rubus-Fern	Nonstocked	10.7	0	Unspecified	4211 - Planted Red Pine	This site was site prepped by the mulching machine on 11/30/21. Oak, red maple, serviceberry, and aspen dominated, but setback by rollerchopper. Significant changes will occur in the next inventory cycle. Much higher sweet fern in northwest on old landing.																																																									
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70	4310 - Pine, Oak Mix	Sawtimber Medium	14.1	87	51-80	N/A	Trace red maple, white pine in canopy. Subcanopy bigtooth are in the large sapling, small pole class, mingling with the canopy. Rare maple leaved viburnum, hazelnut (in northwest only) white pine, red pine, black cherry in subcanopy. Subcanopy varies between islands, as does canopy composition percentages.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72	42110 - Planted Red Pine	Sawtimber Medium	2.9	87	1-50	N/A	Rare black cherry, red pine, balsam fir in subcanopy. A lot of oak, red maple stagnated in the 10-20' range, outcompeted by bigtooth aspen. More successful red maple makes the midcanopy under denser red pine with less aspen. Trace red pine saps on south edge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		95	Log/XLog	17	87	Red Maple		Medium	>20 feet	Sapling	
Red Oak		5	Log/XLog/Pole	12		Beech		Trace	Variable	Sapling	
						Red Oak		Medium	Variable	Sapling	
						Serviceberry (Juneberry)		Low	Variable	Sapling	
						Maple Leaved Viburnum		Trace	< 5 feet	Tall Shrub	
						Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	
						Bigtooth Aspen		High	>20 feet	Sapling	
						Bracken Fern		Low	Unspecified	Non-Wood	

73	42110 - Planted Red Pine	Sawtimber Well	14.6	89	81-110	N/A	Rare sweet fern, hawthorn in subcanopy. Scattered jack pine snags. Less beech and white pine in east half than west. Rare raspberry in skid trail. One hemlock sapling in the southwest (of west portion).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		98	Log/Pole	12	89	Blueberry/Bilberry/Cranberry		Trace	< 5 feet	Tall Shrub	
Black/Red (Hybrid) Oak		2	Log/Pole/XLog	12		Serviceberry (Juneberry)		Low	< 5 feet	Tall Shrub	
						White Pine		Low	Variable	Sapling	
						Red Pine		Trace	>20 feet	Sapling	
						Red Maple		Medium	Variable	Sapling	
						Balsam Fir		Trace	Variable	Sapling	
						Bigtooth Aspen		Trace	Variable	Sapling	
						Maple Leaved Viburnum		Trace	< 5 feet	Tall Shrub	
						Bracken Fern		Low	Unspecified	Non-Wood	
						Beech		Medium	Variable	Sapling	

74	4310 - Pine, Oak Mix	Sawtimber Well	0.7	87	81-110	N/A	Trace white pine and jack pine in canopy. Heavy browsing on red maple subcanopy. Stand is long term retention for parent stand 13.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole/Log	8		Beech		Trace	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak		40	XLog/Log	18		White Pine		Medium	Variable	Sapling	
Red Pine		55	Log/Pole	10	87	Red Pine		Trace	< 5 feet	Sapling	
						Balsam Fir		Low	Variable	Sapling	
						Red Maple		Low	< 5 feet	Sapling	
						Black/Red (Hybrid) Oak		Low	Variable	Sapling	



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75	4139 - Aspen, Mixed Deciduous	Sapling Medium	1.7	5	Immature	N/A	Rare cherry in canopy. Heavy browsing. West central portion of stand is a little bit more open. East edge only appears trenched (and maybe planted) but overtaken by bigtooth and red maple. Unable to judge presence of planted red pine under snow (if present).																																																																				
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77	6223 - Inundated Shrub Swamp	Nonstocked	3.6	0	Unspecified	No	Harvested with parent stand 9, subsequently converted to lowland shrub with scattered lowland-adapted trees. Hummocky drainage holding water, dominated by michigan holly and alder. This swale is on mucky sand whereas the surround stand sits on just sand.																																																																				
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78	42110 - Planted Red Pine	Sawtimber Well	4.4	84	111-140	N/A	Two cohorts of aspen and oak: log and pole/sap. Scattered suppressed red pine poles. One white pine on south edge, two on northwest tip. Bigtooth is starting to mingle with canopy in more open areas. More beech present in north half than south. Trace relic red pine in the north.																																																																				
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79	3102 - Grass	Nonstocked	3.6		Unspecified	No	Sub-Canopy Species				
							Density	Avg. Height	Size		
							Willow spp.	Low	>20 feet	Pole	
							Red Oak	Low	>20 feet	Log	
							Staghorn Sumac	Trace	5 - 10 feet	Tall Shrub	
							Balsam Fir	Trace	>20 feet	Pole	
							Red Maple	Trace	>20 feet	Pole	
							Ironwood	Trace	>20 feet	Sapling	
							Paper Birch	Trace	>20 feet	Log	
							Blackberry/Raspberry	Low	< 5 feet	Tall Shrub	
							Red Pine	Trace	Variable	Sapling	
							Black Cherry	Low	>20 feet	Pole	
							Quaking Aspen	Trace	>20 feet	Sapling	
							Smartweed	Low	Unspecified	Non-Wood	
							Bigtooth Aspen	Low	>20 feet	Log	
							Sweet Fern	High	< 5 feet	Tall Shrub	
							Grape Vine	Low	Unspecified	Vine	
							White Pine	Low	Variable	Sapling	
							Boxelder	Trace	10 - 20 feet	Pole	
							Spotted Knapweed	Medium	Unspecified	Non-Wood	
Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub								
Elderberry	Trace	5 - 10 feet	Tall Shrub								
Pin Cherry	Trace	>20 feet	Pole								
Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub								

Leased from 1962-1972 as a dump for Grant Township. Concern over invasive species. Rare mullein and little blue stem observed in winter. Knotweed (listed as Polygonum spp since Fallopia japonica isn't in the species list) isn't a huge threat considering its distant proximity to water and that this is a lesser travelled area, but it should still be removed. Multiple size classes present. Size classes listed are most prominent for that species. Udipsammments soil classification = dune or old beach stabilized by vegetation.

80	42290 - Natural Mixed Pine	Poletimber Well	6.3	36	51-80	N/A	Canopy Species			
							% Cover	Size Class	DBH	Age
	White Pine	5	Pole/Log/Sap	8			Sub-Canopy Species			
	Jack Pine	28	Pole/Sapling	7			Density	Avg. Height	Size	
	Red Maple	2	Sapling/Pole	4			Juniper	Trace	< 5 feet	Tall Shrub
	Red Oak	5	Pole/Sap/Log	8			White Pine	Trace	Variable	Sapling
	Red Pine	55	Pole/Sap/Log	6	36		Red Maple	Trace	Variable	Sapling
	Bigtooth Aspen	5	Pole/Sapling	6	36		Sweet Fern	Trace	< 5 feet	Tall Shrub
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Scattered residual Xlog/log oak (accounts for 2% total) in canopy. Deer beds under Xlog oak in north. Rare balsam fir in subcanopy.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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81 4130 - Aspen Poletimber Well 6.7 47 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling/Pole	4	
Red Oak	15	Pole/Log/Sap	8	
Bigtooth Aspen	61	Pole/Sapling	6	47
White Pine	5	Log/Pole	10	
Red Pine	1	Log/Pole	12	
Quaking Aspen	1	Sapling/Pole	4	
Balsam Fir	2	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Hemlock	Trace	Variable	Sapling
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Bracken Fern	Low	Unspecified	Non-Wood
White Spruce	Trace	Variable	Sapling
Red Pine	Trace	< 5 feet	Sapling
Wintergreen	Medium	< 5 feet	Tall Shrub
Balsam Fir	High	Variable	Sapling
Pipsissewa	Trace	< 5 feet	Tall Shrub

South acreage becomes damp, seasonally holding surface water; sapling dominated by quaking aspen, red maple, balsam fir, ash, and birch. Trace paper birch, hemlock in canopy. Rare oak, trailing arbutus, and beech in subcanopy. Hemlock in subcanopy in north. Trace willow, elm, bam in south wetter ground.