



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54158

Entry Year 2026

Acreage: 1,185

County Presque Isle

Management Area: Presque Isle Lake and Till Plains

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**Stand Examiner:** Trevor Kubitskey

## Legal Description:

T36N, R2E, Sec. 28, 29, 30, & 33.

## Identified Planning Goals:

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

## Soil and topography:

The majority of the compartment sits up on a bluff looking over Black Lake. The overall topography of the compartment is relatively flat. Some steeper slopes running down into the Cedar swamps in Sections 30 & 33. The main upland soil type is East Lake Sand, with minor components of Rubicon and Croswell sand. Small veins of Cheboygan, Melita and Gladwin Loamy sands on the transitional grounds with Wheatly and Roscommon Muck found in the lowlands.

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

The compartment is fairly parcellated, with a heavy private interface. Identifying property corners, and any trespasses are important to maintaining the integrity of State Land. Development around the compartment is still increasing with more seasonal and full-time residences being built. Land use as far as recreational users as also followed the upward trend, and is steady with ORV riding, and snowmobiling.

## Unique Natural Features:

No Unique Natural Features known.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

Black Mountain Recreation Area. All proposed management activities will have the proper trail protection specifications.

## Watershed and Fisheries Considerations:

The compartment is within a mile from Black Lake and falls within the Northern Lake Huron Fisheries Management Unit. No streams, rivers or creeks flow through the compartment.

## Wildlife Habitat Considerations:

The diverse structure and composition of forest types within the compartment provide good habitat for multiple species of game and non-game animals. The upland/lowland interface within Section 28 provides unique travel corridors with cover as well as the production of acorns for food. Creation of young forests within the compartment is also encouraged to maintain younger ages of aspen for grouse and woodcock.

## Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial production of metallic minerals in this part of the state. An active aggregate mining operation exists in Sec 29, just outside the compartment, on private surface and minerals. Adjacent to the latter, within the compartment, is a formerly active pit (Black Mountain Road Pit). The pit has not been leased for commercial use in the last 20 years but was never restored after the last permitted use. Perhaps some internal DNR use still occurs, but the pit has not recently been evaluated for future additional aggregate potential, and it appears it has seen some ORV activity. Another State-owned pit, the Doriva Beach Road Pit, exists approximately two miles northwest of the compartment. There may be some additional potential for sand & gravel within the compartment on the uplands. No known potential exists beneath the compartment for oil & gas from known producing formations. There has been no history of well permitting activity in or around the compartment and no history of leasing activity involving State-owned mineral rights.

## Vehicle Access:

Well established county roads as well as forest roads provide good access to the compartment.

## Survey Needs:

None needed at this time.

**Recreational Facilities and Opportunities:**

The Bummers Roost ORV Trail (50") and the LP\_99 Snowmobile traverse throughout the compartment. There is a trailhead parking lot for these located within stand 37, on the west side of the road.

**Fire Protection:**

With the heavy use by ORV users, as well as summer vacationers and a higher pine component, there is concern with wildfires. Any DNR fire response will come from the Onaway Field office. It is encouraged for all residences to follow Firewise guidelines and maintain defensible space around their homes.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

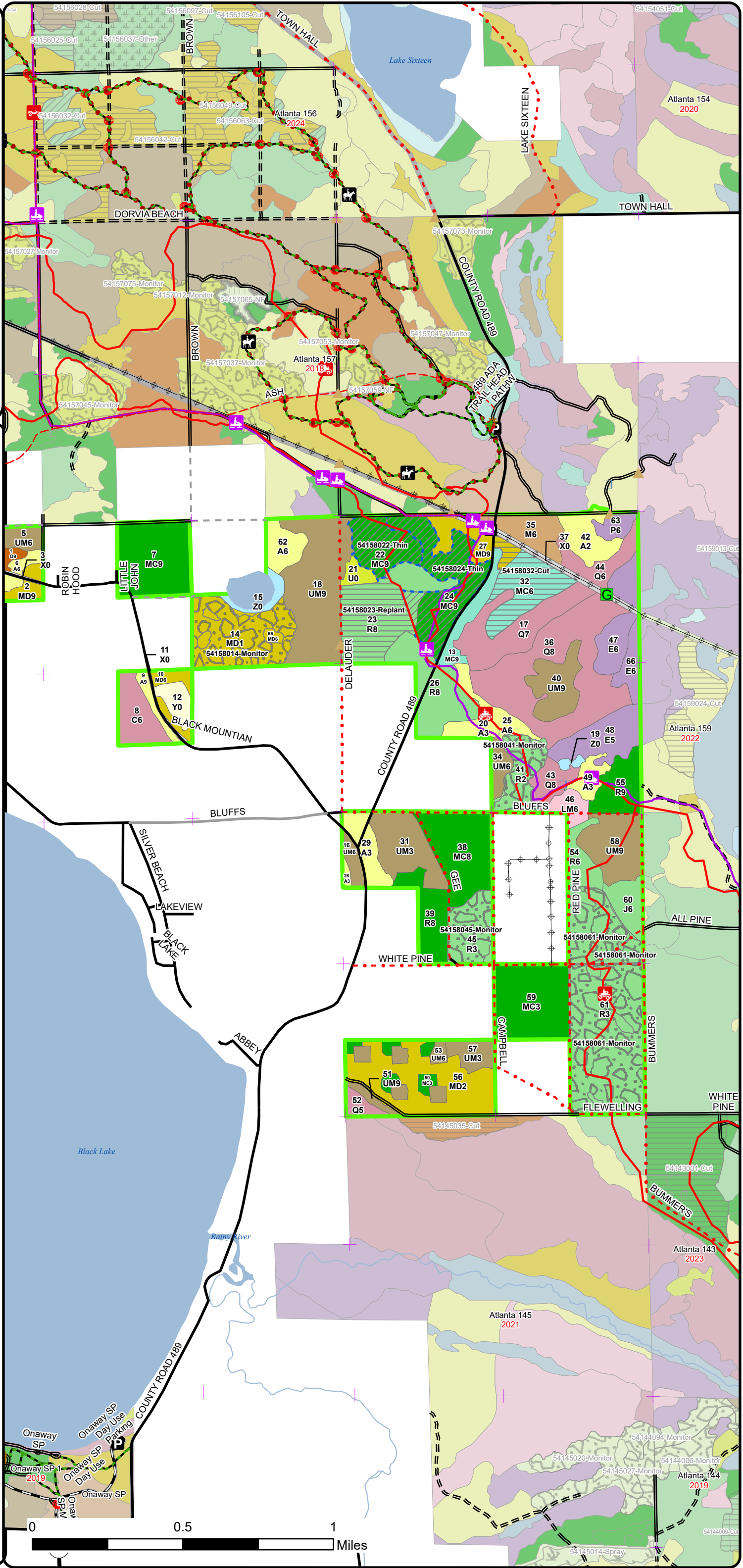
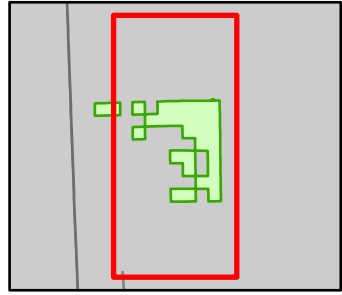
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

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

# Cover Type & Treatments Map

Compartment: 54158  
 T36N, R2E, Sec: 28-30, 33  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Presque Isle Lake and Till Plains  
 YOE: 2026  
 Acres: 1185.2 GIS Calculated  
 Examiner: Trevor Kubitskey  
 Map Revised: 05/24/2024  
 Map Phase: Post-Maps

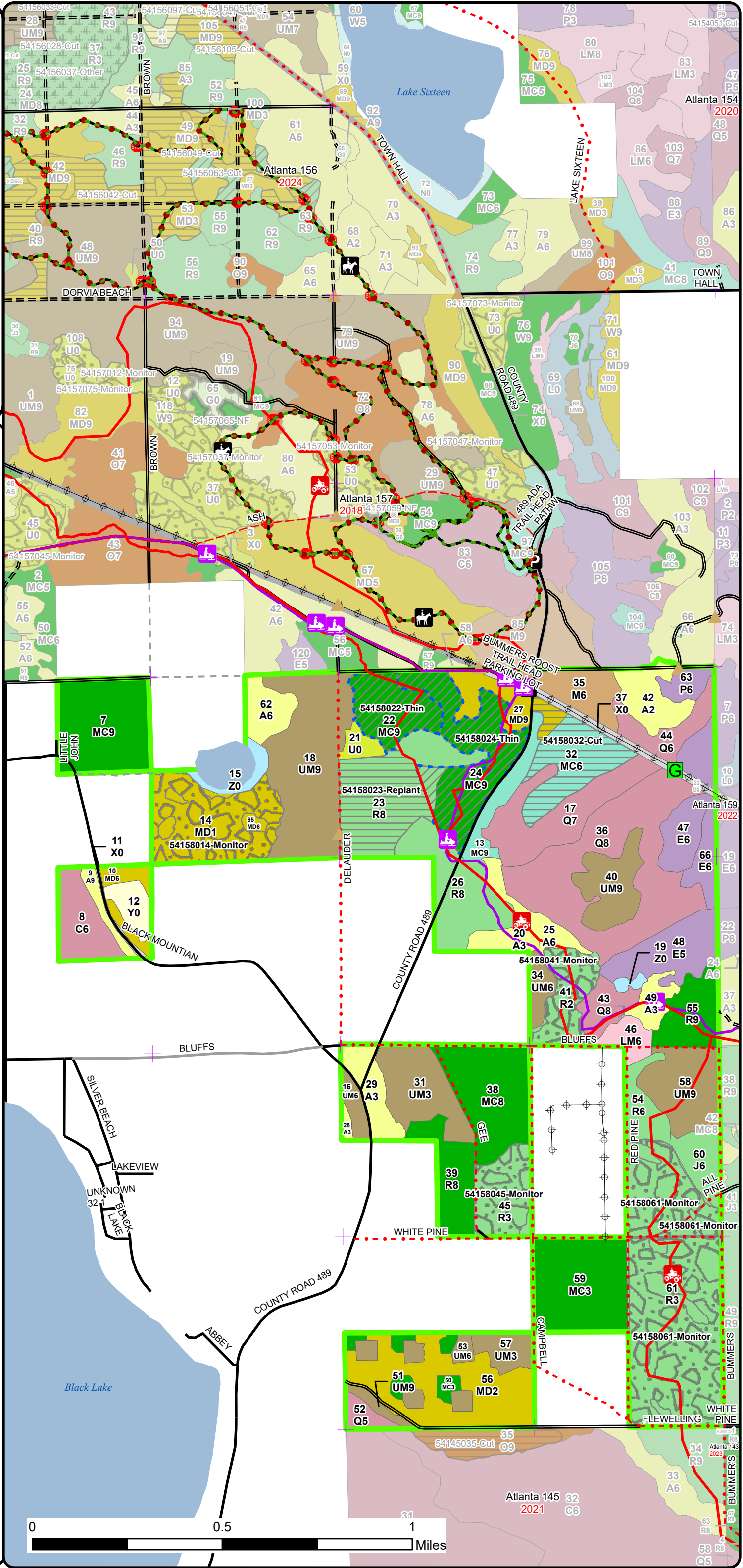
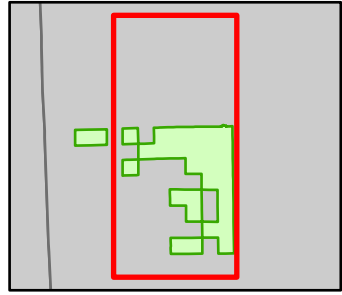


- Horse Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Remonumented Section Corners
- Berms
- Gate
- Bridges
- Culvert
- Campground
- Parking Lot
- Sign
- Trailhead
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
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- Private - Paved Road
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- Lakes and Rivers
- Lake/Pond
- Perennial River
- Powerline
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 430 - Upland Mixed Forest
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- 110 - Low Intensity Urban
- 330 - Low Density Trees
- 500 - Water
- 710 - Sand/Soil

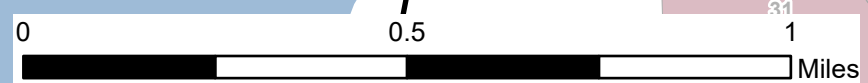


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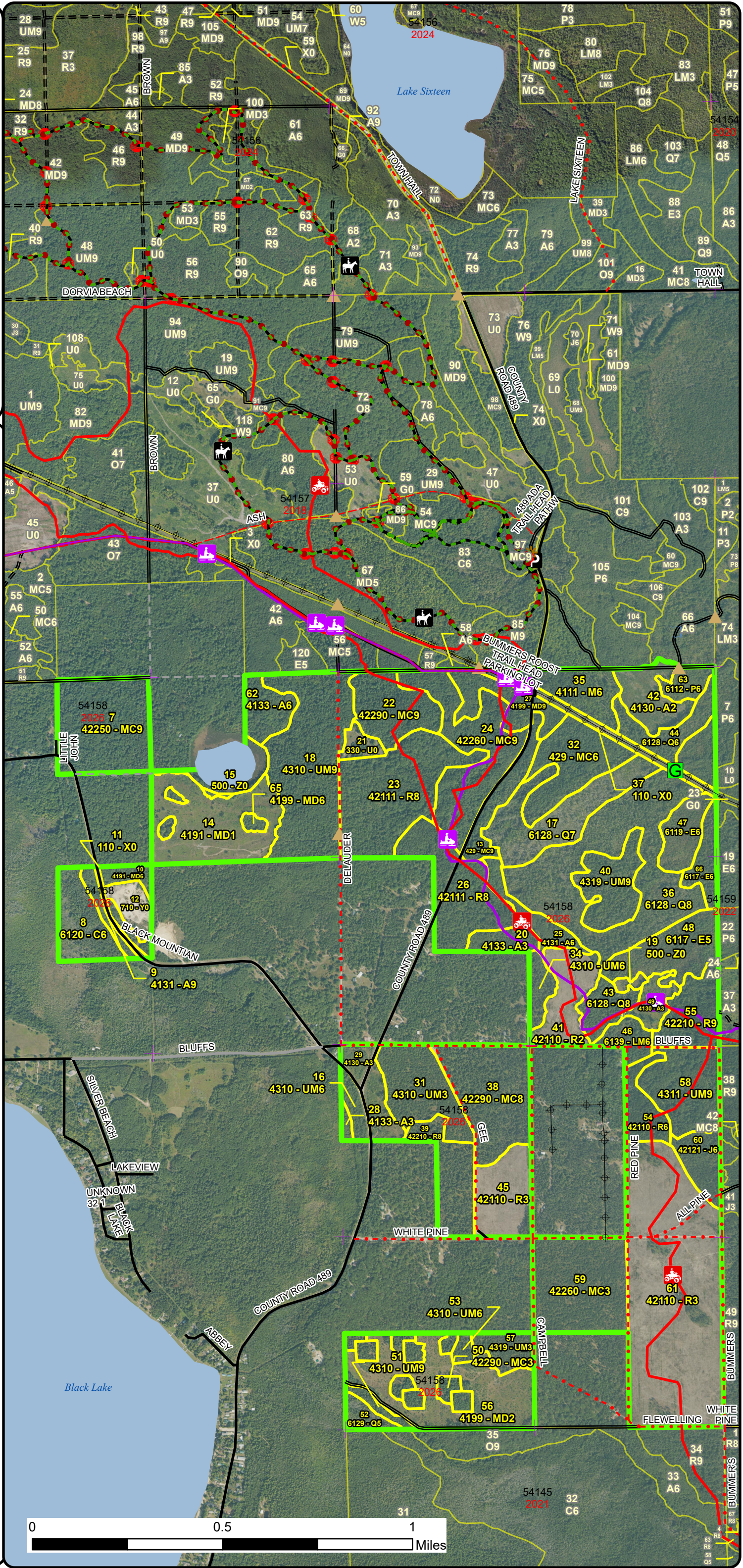
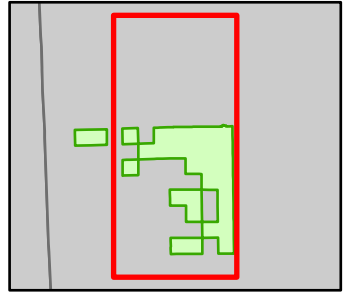


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# Stand Boundary Map

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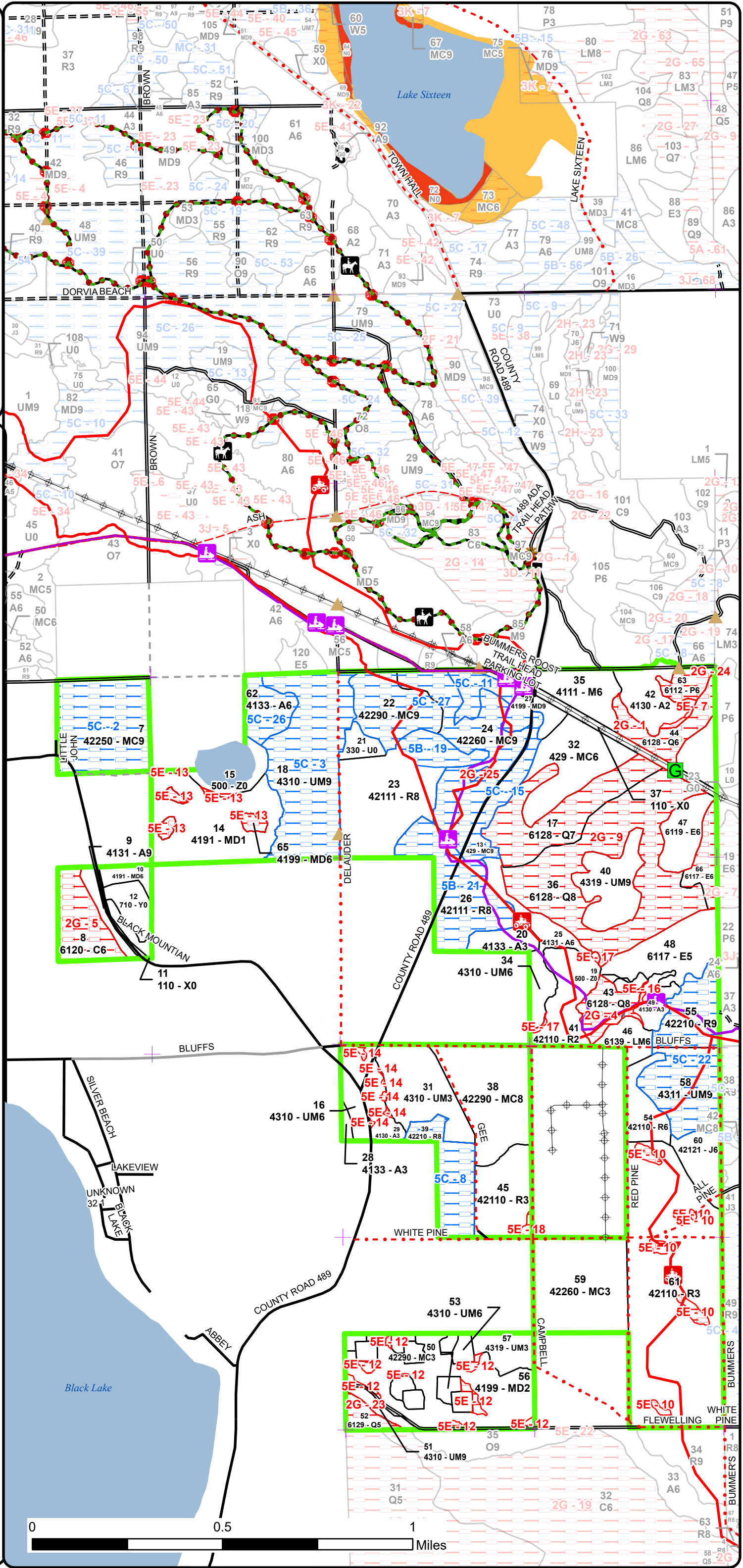
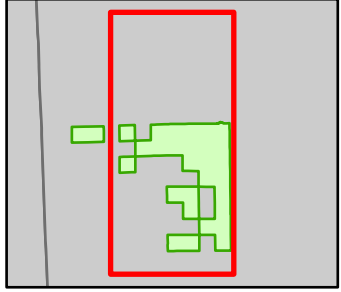


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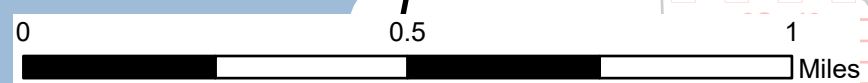


# Special Conservation Areas & Site Conditions Map

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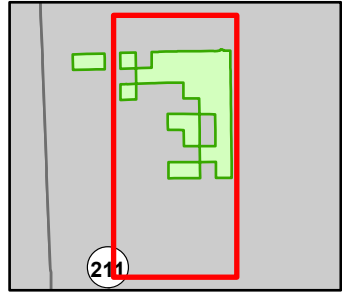


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- SCA
- Available w/ Constraints
- Unavailable
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- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
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- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks

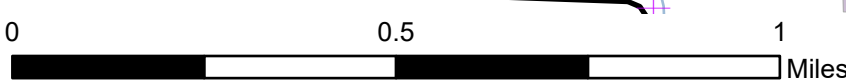
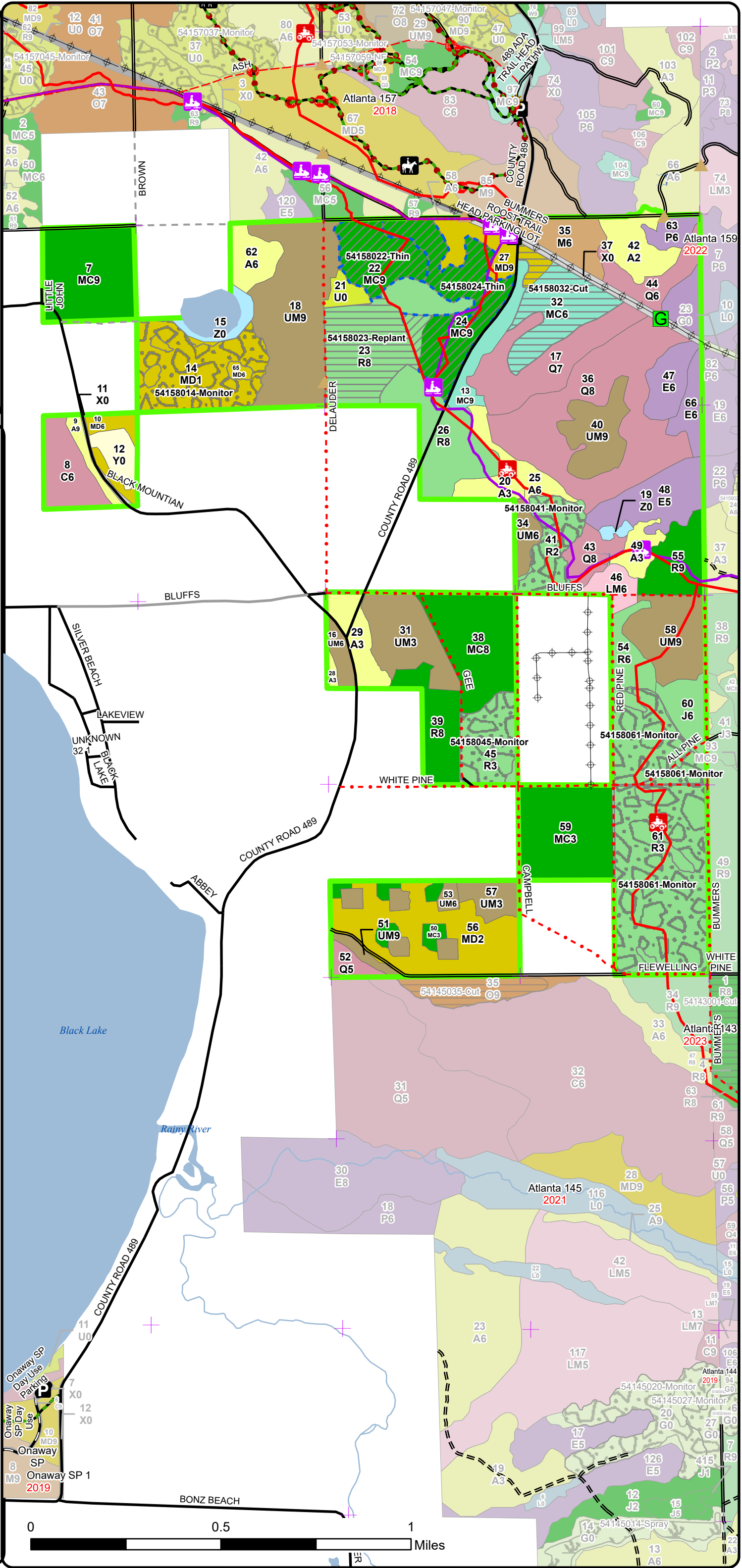


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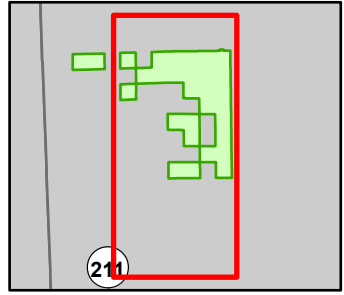


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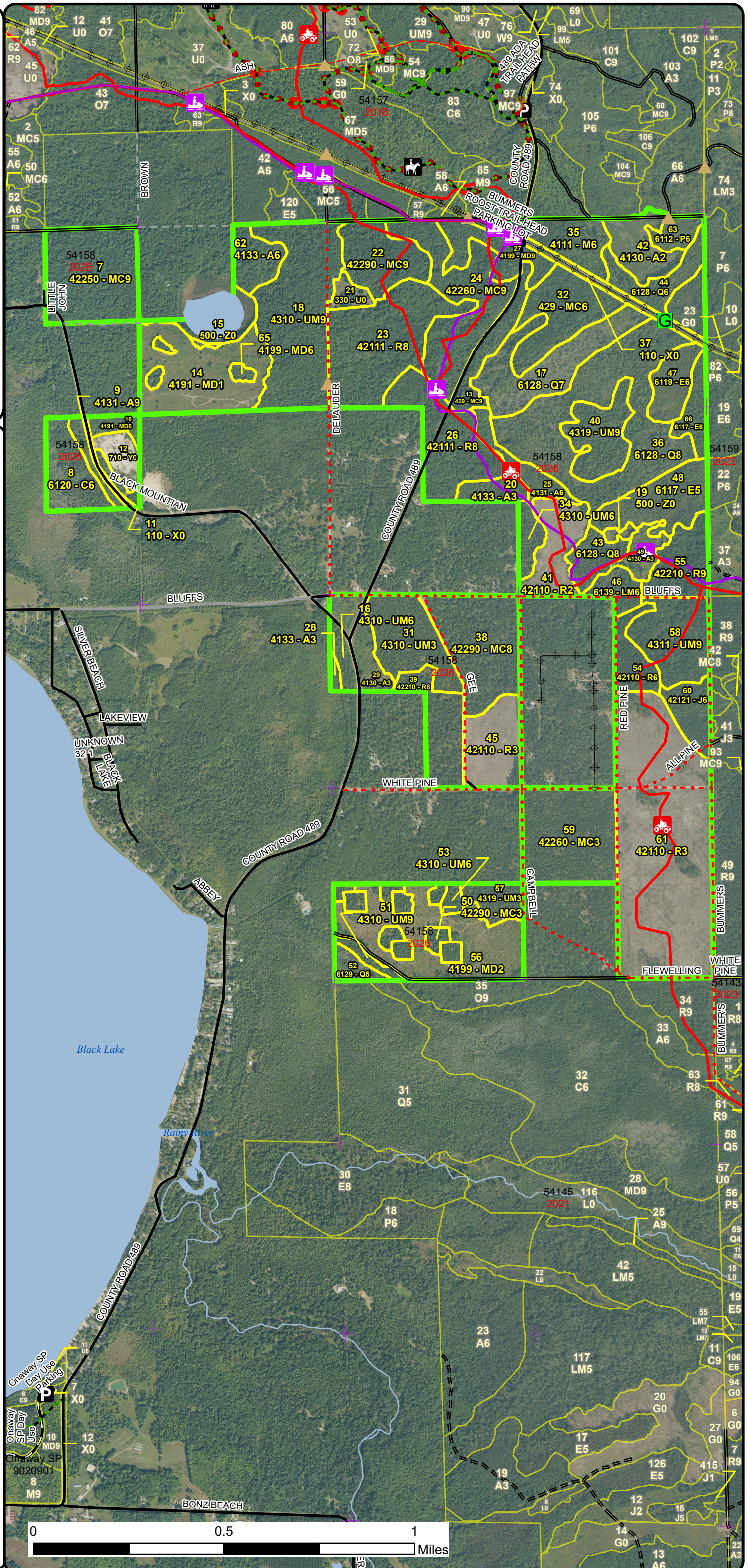


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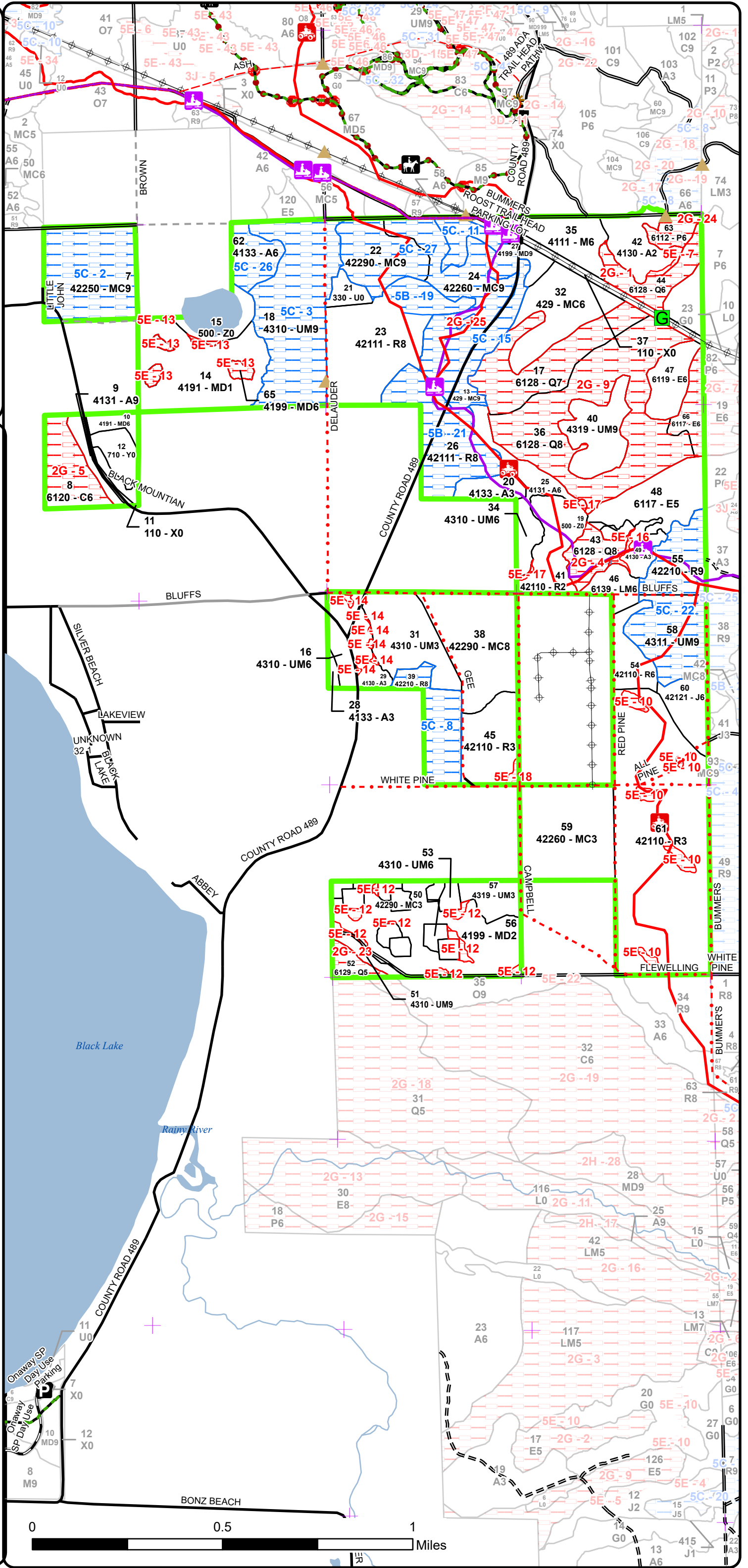
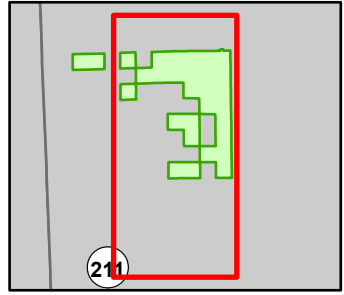
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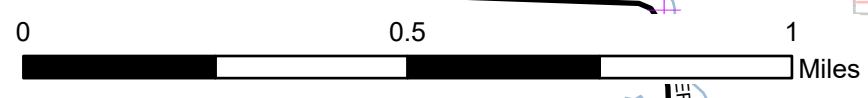


# Special Conservation Areas & Site Conditions Map

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- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Trevor Kubitskey : Examiner

Compartment: 158  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
75	61	<b>11</b>	3
33	16	<b>0</b>	18
11	11	<b>0</b>	0
5	5	<b>0</b>	0
6	0	<b>0</b>	6
128	0	<b>0</b>	128
51	42	<b>0</b>	9
7	7	<b>0</b>	0
140	91	<b>40</b>	10
183	84	<b>98</b>	1
16	16	<b>0</b>	0
11	0	<b>11</b>	0
276	192	<b>78</b>	6
8	8	<b>0</b>	0
37	26	<b>11</b>	0
172	91	<b>81</b>	0
15	15	<b>0</b>	0
11	11	<b>0</b>	0
1,185	675	<b>330</b>	180
	57%	<b>28%</b>	15%

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too wet. Would flood out the area if harvested.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 158

Trevor Kubitskey : Examiner

Year of Entry: 2026

2	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Let stand continue to naturally develop. Current stand conditions would not benefit from thinning or un-even aged management due to limited desirable sub-canopy.							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	56	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boundary excluded retention for the treatment occurring in Stand 42.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 158

Trevor Kubitskey : Examiner

Year of Entry: 2026

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	19	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold stand another 10-20 years to let sub-canopy Oak recruit.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	109	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too wet. Areas have the potential to flood out if harvested.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention islands created for the treatment occurring within Stand 61.							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Do not want to treat the aspen at this time. If we are looking to manage for natural pine in stand 24, harvesting 27 will allow the aspen to encroach into 24 resulting in a heavier deciduous component instead of a pine component. Maintain the overmature aspen within this stand will allow the white pine saplings underneath to naturally recruit as the canopy declines.							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boundary excluded retention for the sale occurring within Stand 56.							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term Retention Islands and boundary exclusion retention created for the sale occurring within Stand 14. Northern boundary exclusions created to protect steeper slopes/sensitive soils near lake (Std15), and to avoid timber trespass onto private (only had/found one survey corner in Stand 14's N.W. corner).							

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Atlanta Mgt. Unit  
Trevor Kubitskey : Examiner

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14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term boundary excluded retention for the treatment occurring within Stand 29.							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boundary excluded long-term retention for the treatment occurring within Stand 49.							
17	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boundary excluded long-term retention for the treatment occurring within Stand 41.							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boundary excluded long-term retention for the treatment occurring within Stand 45. Established in this location to protect two red pine witness trees that have the potential to fall onto power line if left as the only uncut trees during/post harvest.							
19	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold this portion of stand 23 due to higher sub-canopy densities until it becomes more merchantable.							
21	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold another 10 to let sub-canopy Oak recruit.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 158

Trevor Kubitskey : Examiner

Year of Entry: 2026

22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Majority of the stand is too wet.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> lowland Cedar inclusion.							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold and treat with stand 18.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 158

Trevor Kubitskey : Examiner

Year of Entry: 2026

27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural pine guidance.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments
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### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

Conservation Area	Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
<hr/>			
<hr/>			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
1	4125 - Black, N. Pin Oak	Sawtimber Well	11.3	78	111-140	N/A	Portions harvested in 87/88. Lots of dense pockets of sub-canopy/intermediate white pine saplings and poles released from the harvest. Mostly Aspen and Oak logs with scattered log/xlog pine.																																																													
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2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	28.1	71	111-140	N/A	This portion was excluded from the 1987/88 harvest but originally merged with stand 6. Stand is a nice mix of conifer, oak and aspen. Portion north of Black Mtn Rd contains a hemlock inclusion with paper birch and xlog oak. Overall south of the road transitions in and out of Xlog, large crowned Oak. One Oak was measured at 34" DBH. Aspen logs are healthy. Scattered red and white pine throughout. Steep slopes along the south end in the east half and gradually transitions to flatter terrain in the west. Some low swales in the west.																																																													
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3	110 - Low Intensity Urban	Nonstocked	4.3		Unspecified	No	Black Mountain Rd																																																													
4	6120 - Lowland Cedar	Poletimber Well	15.9	109	111-140	N/A	Overall fairly healthy cedar. Pockets of blowdown present along with areas of very dense balsam fir regeneration. Wet.																																																													
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5	4311 - Pine, Aspen Mix	Poletimber Well	13.0	37	81-110	N/A	Harvested in 1987/88 removing everything but Red and White Pine. A lot of advanced white pine regeneration present. Stand contains more pole/log/xlog white pine mix in the west half than transitions to more aspen, oak and overall a less consistent pine canopy.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>6</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.3	37	81-110	N/A	Split out from stand 2. This portion was harvested in 1987/88 along with portions of stand 2 and 5. Overall healthy aspen with some pine and oak. Mapped as it's own stand due to mapping standards but most likely should be treated with adjacent stands. Stand is merchantable and seems to be growing well.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		50	Pole	6	37	Red Maple		High	10 - 20 feet	Sapling	
Balsam Fir		5	Sapling	2		White Pine		Low	Variable	Sapling	
White Pine		5	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling	
Red Pine		5	Pole/Log	8							
Red Oak		15	Pole/Log/Sap	8							
Red Maple		20	Pole	7							

<b>7</b>	42250 - Pine, Oak	Sawtimber Well	38.6	94	111-140	N/A	Species removal in 1998 leaving all Oak, Red Pine and White Pine. Somewhat poor form and quality in a lot of the white pine, possibly due to weevil damage West third contains the higher white pine component then transitions to more of a mixed red/white pine and Oak stand moving east. Some scattered 26" + DBH oak and pines throughout. Heavy deciduous subcanopy except in the southern/southeastern portions. Borderline more Upland Mix in some places. Avg age of stand is ~90. Red Pine were cored slightly younger at 88 with White Pine at 94. Some true legacy pines present (31" DBH and 135+ years old).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		15	Log/Pole/XLog	16	88	White Pine		Low	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak		40	Log/Pole/XLog	17		Red Pine		Low	10 - 20 feet	Sapling	
White Pine		45	Log/XLog/Pole	17	94	Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling	
						Red Maple		High	10 - 20 feet	Sapling	
						Bigtooth Aspen		Medium	>20 feet	Pole	
						Bigtooth Aspen		High	>20 feet	Sapling	

<b>8</b>	6120 - Lowland Cedar	Poletimber Well	17.6	104	171-200	N/A	Interior very well stocked. Inclusions of deciduous with areas of heavier blowdown to the southwest. Good, thick balsam fir regen underneath. Very wet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		2	Log	12		Balsam Fir		High	Variable	Sapling	
Tamarack		5	Log/Pole	10							
Balsam Fir		4	Pole/Log	9							
Black Spruce		4	Pole/Log	8							
Northern White Cedar		70	Pole/Log	8	104						
White Pine		2	XLog/Log	18							
Paper Birch		5	Pole	6							
Red Maple		5	Pole	7							
Red Pine		3	Log/Pole	10							

<b>9</b>	4131 - Aspen, Oak	Sawtimber Well	4.2	62	81-110	N/A	Nice Aspen and Oak logs. Scattered Red/White Pine logs/xlogs. Stand has a steep transition down into the cedar swamp. Good mixed conifer component established under the aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		65	Log	11	62	Balsam Fir		Medium	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		25	Log/XLog	15		Red Maple		Low	5 - 10 feet	Sapling	
Red Pine		4	Log/XLog/Pole	15		White Pine		Medium	Variable	Sapling	
White Pine		2	Log/Pole	13		Tamarack		Trace	5 - 10 feet	Sapling	
Red Maple		4	Log/Pole	11		Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling	
						Black Spruce		Low	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>10</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.3	57	51-80	N/A	South strip contains some rough aspen/oak with a better pine component. North half sits up on top a ridge. Overall Oak quality is very poor, almost borderline Pin Oak. Stem densities are fairly low.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole/Log	9		Jack Pine	Medium	Variable	Sapling
Red Maple	5	Pole	7		Balsam Fir	Low	Variable	Sapling
White Pine	10	Log/Pole	10		White Pine	Low	Variable	Sapling
Balsam Fir	5	Pole	6		Red Pine	Low	Variable	Sapling
Red Pine	10	Log/Pole	12		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	32	Log/Pole	12	98	Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	33	Pole/Log	9	57				

<b>11</b>	110 - Low Intensity Urban	Nonstocked	1.8		Unspecified	No	Black Mountain Rd
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<b>12</b>	710 - Sand, Soil	Nonstocked	7.7		Unspecified		DNR Gravel/Sand Pit. Areas in the south contain a lot of dirt mounds and pits from possible old dumping of vegetation and sod.
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<b>13</b>	429 - Mixed Upland Conifers	Sawtimber Well	12.0	97	111-140	N/A	Narrow band of natural Log/Xlog Pines with inclusions of Oak, Cedar and Hemlock. Majority age of the Red/White Pine is between 90 and 100 with some legacy pines upwards of 120-130 years old. Balsam fir is falling apart along with some of the overmature aspen. Nice visual for CR 489. Transitions to more consistent red pine in the far north.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/XLog	16	93	Red Oak	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	5	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Oak	15	Log/XLog	16		White Pine	Low	5 - 10 feet	Sapling
Red Pine	23	Log/XLog	16	97				
Balsam Fir	10	Pole	8					
Red Maple	5	Pole/Log	9					
Hemlock	7	Log	14					
Northern White Cedar	15	Log/Pole	10					

<b>14</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	39.5	4	Immature	N/A	Harvested in 2020 under contract "Nauten My Backyard" 54-039-16. Stand has been hit extremely hard by deer browse. Most Oak stump sprouts have been browsed, with some stumps not showing any signs of sprouting. Most of the Red Maple and Aspen regeneration is in the north half, with very limited regeneration (some pine) in the south.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Sapling/Pole	2		Black/Red (Hybrid) Oak	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	35	Sapling	1	4	Red Maple	Medium	< 5 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling	1					
Jack Pine	10	Sapling	1					
Red Pine	5	Sapling/Pole/Log	3					

<b>15</b>	500 - Water	Nonstocked	9.3		Unspecified	No	Un-named lake.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
16	4310 - Pine, Oak Mix	Poletimber Well	5.5	51	81-110	N/A	Originally part of stand 29 but excluded from the harvest. Appears that the aspen was cut along with stand 28 and the adjacent private property sometime in the mid to early 90's. Scattered Red Pine and Oak overstory. Slight downhill transition as you move west.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
White Pine		5	Pole/Log	9		Red Pine		Low	Variable	Sapling	
Red Pine		45	Pole/Log	8	51	Bigtooth Aspen		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		20	Pole/Sapling	6	28	Red Maple		Medium	Variable	Sapling	
Red Maple		5	Pole/Sapling	6		Balsam Fir		Medium	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak		25	Log	12		White Pine		Medium	Variable	Sapling	
17	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Poor	31.3	126	51-80	N/A		Majority of stand is cedar blowdown. Could be either a Q3 or C7. Depending on water table and/or other wind events will determine how the stand develops. Scattered Aspen, Maple and birch logs intermixed. Appears that at some point between 2012 and 2014 stand started to deteriorate based on imagery.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Log/Pole	10		Balsam Fir			High	Variable	Sapling
Quaking Aspen		5	Log	12		Tag Alder	High		5 - 10 feet	Tall Shrub	
Balsam Fir		25	Sapling/Pole	4		White Pine	Medium		Variable	Sapling	
Black Spruce		10	Pole/Log	10							
Northern White Cedar		35	Log	10	126						
Paper Birch		10	Log/Pole	11							
18	4310 - Pine, Oak Mix	Sawtimber Well	56.2	87	111-140	N/A	Fairly variable stand. Overall stocking and size is not very consistent. Stand transitions in and out of pockets of red/white pine logs, oak and pockets of mixed deciduous and white pine saplings. Oak quality is slightly less than that of stand 22 to the east. White pine and Oak stocking in the sub-canopy is variable with patches rather than consistent stocking. Some mortality within the larger red pine resulting in some natural canopy gaps. Aspen density picks up in the north. More broken canopy, scrubby appearance along the east edge. Far north contains the largest diameter Pine and Oak then a slight drop off into a drainage shared with the stand to the north.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole/Log	9		Black/Red (Hybrid) Oak		Medium	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		30	Log/Pole/XLog	15		Red Pine		Low	Variable	Sapling	
Bigtooth Aspen		10	Log/Pole	12		Bigtooth Aspen		Low	Variable	Sapling	
White Pine		15	Log/XLog/Pole	16		Black/Red (Hybrid) Oak		Low	>20 feet	Pole	
Red Pine		40	Log/XLog/Pole	16	87	White Pine		Medium	Variable	Sapling	
						Beech		Low	5 - 10 feet	Sapling	
						Red Maple		High	10 - 20 feet	Sapling	
19	500 - Water	Nonstocked	1.6	0	Unspecified	No		Almost looks like a beaver flooding but there is no sign of beaver activity. Possibly seasonal. Seems to be flowing/draining from the east to west. More lowland shrub and lowland hardwoods to the east.			
20	4133 - Aspen, Mixed Pine	Sapling Well	7.0	28	1-50	N/A	Split from stand 34. Harvested in the early 90's. Left scattered Red Pine and occasional oak logs. More Jack Pine establishment in the east along the snowmobile trail. Some log White Pine present as well.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Bigtooth Aspen		70	Pole/Sapling	5	28	Red Maple		Low	5 - 10 feet	Sapling	
Red Pine		10	Log	13		Red Pine		Low	< 5 feet	Sapling	
Jack Pine		5	Sapling/Pole	3		White Pine		Low	Variable	Sapling	
White Pine		5	Log	14		Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling	
Black/Red (Hybrid) Oak		10	Pole/Log/Sap	5							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
21	330 - Low-Density Trees	Nonstocked	4.5		Unspecified	No	Old trash dump for the township. Mostly degraded with pockets of pine, aspen and some oak.					
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>							
		Red Oak	Low	>20 feet	Log							
		White Pine	Medium	Variable	Pole							
		White Pine	Medium	Variable	Sapling							
		Balsam Poplar	Low	>20 feet	Log							
		Bigtooth Aspen	Low	Variable	Log							
22	42290 - Natural Mixed Pine	Sawtimber Well	21.1	108	141-170	N/A	Not much history on stand. No records of planting within this Q-Q section with minimal records on previous harvests. Portions may have possibly been thinned in 1972 removing white and red pine logs. There is history of fires within the southern half of the stand. Lots of stagnation in the subcanopy and even in the intermediate class of white pine poles. Scattered true legacy trees. White Pine seems slightly older than the red. Some natural canopy gaps. Somewhat variable sub-canopy.					
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Red Oak	15	Log/XLog	16			Red Pine	Low	5 - 10 feet	Sapling	
		White Pine	50	Log/XLog/Pole	17	108		Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling	
		Bigtooth Aspen	7	Pole/Log	9			Red Maple	Medium	10 - 20 feet	Sapling	
		Red Pine	23	Log/XLog	16	97		Red Oak	Medium	10 - 20 feet	Sapling	
		Red Maple	5	Log/Pole	13			White Pine	Medium	5 - 10 feet	Sapling	
								Beech	Medium	5 - 10 feet	Sapling	
23	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	46.2	94	111-140	N/A		Parent stand of Red, White and Jack Pine planted in 1930. Three fires occurred in 1971, 1972 and 1977. Harvest records indicate Jack Pine was removed in 1974 and a thinning/shelterwood in 1996. Due to species removal in 96 (all aspen, red maple and jack pine) it resulted in a very patchy, strip cut like appearance. High aspen densities in the NE almost to the extent of separating out as it's own stand. Lower quality pockets with more scrubby Oak, aspen and white pine. Scattered veins of large diameter, open-grown Oak. Lots of different age groups. More red pine sub-canopy in the NW. Some single tree mortality in the red pine and oak.				
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Black/Red (Hybrid) Oak	35	Log/XLog	15				Red Maple	High	5 - 10 feet	Sapling
		White Pine	5	Log/Pole	10	56			Red Maple	Medium	>20 feet	Pole
		Red Pine	60	Log/XLog/Pole	14	94			Red Pine	Medium	Variable	Sapling
							Bigtooth Aspen		Medium	>20 feet	Pole	
							Bigtooth Aspen		Low	10 - 20 feet	Sapling	
							White Pine		Medium	Variable	Pole	
							Black/Red (Hybrid) Oak		Medium	10 - 20 feet	Sapling	
24	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	39.2	105	171-200	N/A	Nice natural pine stand with pockets of oak, aspen and some hardwood. Overall red/white pine is ~80ft + tall and healthy. Some denser pockets yielding BA's over 200. Natural canopy gaps resulting in mixed hardwood and white pine regeneration. Subcanopy stocking and composition variable. Large overmature aspen pockets throughout. The south portion may have been thinned with the adjacent stand based on similar appearance. Small lowland conifer (hemlock, cedar, fir) in the east along CR 489. No areas of significant desirable sub-canopy- species like Oak and White Pine are present but inconsistent.					
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Red Oak	5	Log/Pole	14			White Pine	Medium	Variable	Sapling	
		Northern White Cedar	2	Log/Pole	10			Sugar Maple	Low	10 - 20 feet	Sapling	
		White Pine	30	Log/XLog/Pole	17	108		Ironwood	Low	5 - 10 feet	Sapling	
		Hemlock	2	Log	14			Balsam Fir	Low	Variable	Sapling	
		Paper Birch	5	Pole	8			Beech	Low	5 - 10 feet	Sapling	
		Red Pine	35	Log/XLog	16	105		Red Pine	Low	5 - 10 feet	Sapling	
		Bigtooth Aspen	16	Log/Pole	12			Red Maple	Medium	5 - 10 feet	Sapling	
		Red Maple	5	Pole/Log	9			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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<b>25</b>	4131 - Aspen, Oak	Poletimber Well	9.5	44	111-140	N/A	Aspen is roughly the same age as stand 34. More consistent aspen clones with larger crowned Oak and less pine component. Was originally merged with stand 34 but then separated due to overall composition.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/XLog	15		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	65	Pole/Log	9	44	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple	5	Log/Pole	12		Red Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	20	Log/XLog	14		White Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Log	14					

<b>26</b>	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	31.8	93	111-140	N/A	Based on records, stand was planted in 1930 with a mix of Red, White and Jack Pine. Stand has since lost the majority of the jack pine and white pine. Stand was harvested in 96 removing all species except Red Pine and Oak resulting in patchy stocking throughout. With this there are areas of heavy red maple, oak recruitment in the sub-canopy. Quick regen survey was done to determine stocking of sub-canopy species: RO 473 tpa, RM 451 tpa, BT 187 tpa, WP 88 tpa, AB 33 tpa, W ash 22 tpa, and BF 22 tpa.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole	11		White Pine	Low	5 - 10 feet	Sapling
Red Pine	75	Log/XLog	15	93	Red Maple	High	10 - 20 feet	Sapling
Red Oak	20	Log/XLog/Pole	16		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
					Balsam Fir	Low	5 - 10 feet	Sapling

<b>27</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	15.1	87	141-170	N/A	Portion east of the snowmobile trail contains the majority of the hardwood (sugar maple, oak, basswood, beech) component. Sugar maple is on the smaller diameter end compared to the rest of the species. West of the snowmobile trail contains the large xlog aspen and pine with the stand starting to enter natural succession with white pine seeding in extremely well under the overmature aspen clones. Scattered legacy red and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	18	Log/XLog/Pole	15	87	Beech	Low	5 - 10 feet	Sapling
Paper Birch	10	Log	12		Sugar Maple	Low	10 - 20 feet	Sapling
Red Pine	8	Log/XLog	17		Red Oak	Low	10 - 20 feet	Sapling
White Pine	8	XLog	19		Ironwood	Medium	5 - 10 feet	Sapling
Sugar Maple	10	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Hemlock	3	Log	12		White Pine	Medium	< 5 feet	Sapling
Bigtooth Aspen	25	Log/XLog	14	87				
Ironwood	3	Pole	7					
Basswood	5	Log/Pole	10					
Red Maple	5	Log/Pole	10					
Beech	5	Log/Pole	10					

<b>28</b>	4133 - Aspen, Mixed Pine	Sapling Well	1.5	26	51-80	N/A	Harvested sometime in mid-early 90's along with the private to the west and south.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Pole/Sapling	5	26	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	15	Sapling/Pole	3		White Pine	Medium	Variable	Sapling
Red Maple	5	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
Quaking Aspen	10	Sapling/Pole	4		Red Maple	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	20	Sapling/Pole	3					
Red Pine	10	Pole/Sapling	5					
White Pine	10	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
29	4130 - Aspen	Sapling Well	13.0	5	Immature	N/A	Harvested in May 2019 under contract 54-039-16 'Nauten My Backyard' . Aspen is regenerating very well and roughly 10-15 feet tall. Patchy Oak establishment with heavy browse on stems under 6 feet. Some oak stumps appear to have never sprouted after harvest. Aspen looks good.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Sapling	1		Black Cherry	Medium		< 5 feet	Sapling
Black/Red (Hybrid) Oak	5	Sapling	1		Black/Red (Hybrid) Oak	Low		< 5 feet	Sapling
White Pine	2	Pole	6		White Pine	Low		< 5 feet	Sapling
Black Cherry	8	Sapling	1		Jack Pine	Low		< 5 feet	Sapling
Bigtooth Aspen	80	Sapling	1	5	Red Pine	Low		< 5 feet	Sapling
31	4310 - Pine, Oak Mix	Sapling Well	24.8	26	1-50	N/A	Final harvested in 1998. Transitions between Oak and pine. Oak quality seems variable with some patches more towards pin oak but some more towards hybrid. Areas of advanced pine regeneration. Some dieback observed in the Jack Pine. Stand is still heavier to sapling size with some pockets just reaching merchantability.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern Pin Oak	35	Sapling/Pole	4		Juniper	Low		< 5 feet	Tall Shrub
White Pine	5	Sapling/Pole	4		Black Cherry	High		5 - 10 feet	Sapling
Red Pine	5	Pole/Sapling	6		Northern Pin Oak	Medium		Variable	Sapling
Jack Pine	35	Sapling/Pole	4	26	Jack Pine	Low		< 5 feet	Sapling
Red Maple	10	Pole/Sapling	5						
Black Cherry	10	Sapling/Pole	4						
32	429 - Mixed Upland Conifers	Poletimber Well	25.0	75	111-140	N/A	Upland with lowland. White pine canopy is fairly consistent with bigtooth on the higher ridges, quaking on the transitional ground then BAM mostly around the cedar pockets. Unique upland hemlock ridge extends down to the southwest between stand 17. Unique wildlife corridor with a few scattered Oaks.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	4	Log/Pole	12		Red Maple	Low		Variable	Sapling
Red Maple	5	Pole	8		Red Oak	Low		>20 feet	Pole
Red Oak	1	Log/Pole	12		White Pine	Low		5 - 10 feet	Sapling
Balsam Fir	8	Pole/Log	8		Paper Birch	Low		10 - 20 feet	Sapling
Red Pine	1	Log	16		Balsam Fir	High		Variable	Sapling
White Pine	33	Log/XLog/Pole	15	75					
Hemlock	10	Log	13						
Bigtooth Aspen	15	Log/Pole	10						
Paper Birch	5	Pole	7						
Northern White Cedar	10	Log/Pole	11						
Quaking Aspen	8	Pole/Log	9						
34	4310 - Pine, Oak Mix	Poletimber Well	6.4	52	81-110	N/A	Odd multi aged stand. Portions were harvested in the early 90's. Appear that Pine and Oak were left with pockets of aspen. Legacy red pine present 130+ years old.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	30	Pole/Log	8	44	Red Pine	Medium		>20 feet	Pole
Jack Pine	35	Pole/Log	8	52	White Pine	Low		5 - 10 feet	Sapling
Red Pine	10	Log/Pole/XLog	13		Black/Red (Hybrid) Oak	Low		5 - 10 feet	Sapling
White Pine	5	Log/Pole/XLog	15		Red Pine	Medium		Variable	Sapling
Black/Red (Hybrid) Oak	20	Log	14						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>35</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	16.2	73	81-110	N/A	Sugar maple is on the smaller side compared to the rest of the species. Overall fair quality. Scattered white pine, fir and yellow/paper birch inclusions. Thinned in 2020 removing all ash and beech while reducing BA to 70. Heavy flush of beech and ironwood with browse present on the sugar maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		61	Log/Pole	10	73	Sugar Maple		Low	10 - 20 feet	Sapling	
Yellow Birch		2	Pole	6		Beech		Medium	Variable	Sapling	
Red Oak		10	Log/Pole	12		Balsam Fir		Low	< 5 feet	Sapling	
White Pine		2	Log/Pole	12		Bigtooth Aspen		Low	5 - 10 feet	Sapling	
Red Maple		5	Log/Pole	10		Ironwood		Medium	Variable	Sapling	
Paper Birch		5	Log/Pole	11							
Basswood		15	Log/Pole	11							

<b>36</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	69.2	126	111-140	N/A	Significant blowdown in areas resulting in a good flush of balsam fir and tag. Some slightly higher knolls contain better quality stems. In and out of conifer/lowland hardwood/lowland aspen. Lots of overmature aspen falling apart. Most balsam poplar has completely fallen out of the stand. Southeast portion near stand 47 & 66 contain somewhat flowing water from stand 47. Possible water fluctuations are resulting in the decline and blowdown.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		10	Pole	8		Balsam Poplar		Low	5 - 10 feet	Sapling	
White Pine		7	Log/XLog	14		Black Spruce		Low	Variable	Sapling	
Black Spruce		5	Log/Pole	10		Tag Alder		High	5 - 10 feet	Tall Shrub	
Northern White Cedar		35	Log/Pole	10	126	Balsam Fir		High	Variable	Sapling	
Hemlock		5	Log	12		Black Ash		Medium	< 5 feet	Sapling	
Quaking Aspen		15	Log/Pole/XLog	11							
Red Maple		10	Pole/Log	8	51						
Paper Birch		8	Pole/Log	9							

<b>37</b>	110 - Low Intensity Urban	Nonstocked	8.8		Unspecified	No	Powerline
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<b>38</b>	42290 - Natural Mixed Pine	Sawtimber Medium	36.0	45	81-110	N/A	Stand has a record of planting in 1929 with Jack and Red Pine. Old records indicate poor survival rate from the planted red pine stock. Cores from Red Pine within the stand indicate a younger stand (75-85 y.o) but with the scattered legacy red pine probably from the initial planting in 1929. Overall stand is rough, mostly open grown red pine and declining pockets of jack pine. Some single tree mortality present within the older Red Pine. Some pockets of oak sapling recruitment under dead Jack pine. Condition of stand is poor. Have concerns over general health of the stand as well as the fire danger potential due to low lying limbs, dense declining pine with close proximity to private property with declining pine as well. Some defoliation noted on the jack pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		20	XLog	19	95	White Oak		Low	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		5	Log/Pole	12		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub	
Red Pine		28	Pole	9	79	Black/Red (Hybrid) Oak		Low	Variable	Sapling	
Jack Pine		47	Pole/Log	8	45	Red Pine		Medium	5 - 10 feet	Sapling	
						Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub	
						Red Pine		Medium	< 5 feet	Seeding	
						Black Cherry		Medium	5 - 10 feet	Sapling	
						Red Pine		Low	>20 feet	Pole	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
<b>39</b>	42210 - Natural Red Pine	Sawtimber Medium	19.4	84	51-80	N/A	Ownership cards indicate this was planted in 1929 along with stand 38. Most of the planted stock has fallen out of the stand. Records indicated mortality within the stand and salvages in the 50's. Stand is now a natural pine stand with scattered open grown oak that becomes more common in the south half. Good sub-canopy development of red pine and oak saps.																																																													
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<b>40</b>	4319 - Mixed Upland Forest	Sawtimber Well	19.3	92	111-140	N/A	Unique upland island surrounded by cedar swamp. Stand is majority upland with pockets of slightly lower ground mostly containing the cedar and some red maple. The higher knolls contain scattered log Oak with better quality aspen. Overall, fairly easy walking. Dense thickets of fir throughout with minor blowdown present.																																																													
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<b>41</b>	42110 - Planted Red Pine	Sapling Medium	19.0	2	Immature	N/A	-Year 1 survey for interplanting passed with 889 TPA. - Inter-planting of red pine was completed on 5/5/2023 at 978 TPA -PUER 8/12/22 Comments: Very successful herbicide application on a non-trenched site. Some thicker pockets show some competition survival. Regeneration survey shows ~ 750 trees/a with competition at about 50 trees/ac. Before Application: Oak 5%, Aspen 45%, Cherry 50%; Post Application: 90%, 85%, and 90% control respectively. -A year 1 regeneration survey was completed on 9/19/2022 finding 756 TPA. -Unfurrowed planting of red pine was completed on 5/10/2022 at 946 TPA -Skidder herbicide application was completed on 9/10/21.																																																													
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<b>42</b>	4130 - Aspen	Sapling Medium	15.0	4	Immature	N/A	Harvested in 2020 under contract "Nauten My Backyard" 54-039-16. Stand is overall upland with portions of lowland/wet ground around the edges. Only observed a handful of Oak. Heavy browse on red maple and oak under 6 ft. Overall met regeneration objectives.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**43** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 9.8 71 81-110 N/A

Mix of lowland aspen and lowland conifers. Scattered pockets of cedar overtopped by aspen logs and Red/White Pine legacy trees. Hummocky, with Oak and better quality aspen on the 'drier' portions. Seems to have a slight drainage and seasonally flowing water from stand 19 into 46. Very wet. Snowmobile trail grade has been raised to reduce issues with water over the trail. Subcanopy is filling in canopy gaps.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole/Log	8	
Balsam Fir	10	Pole	6	
Quaking Aspen	22	Log/Pole	12	71
Red Oak	3	Pole/Log	8	
White Pine	20	XLog	20	102
Red Pine	5	XLog/Log	18	95
Northern White Cedar	15	Log/Pole	10	
Red Maple	10	Log/Pole	10	

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

**44** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 12.7 106 81-110 N/A

Similar age to stand 36 to the south. Some drier ridges in the north end but overall very wet. Standing water in areas.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Log/Pole	10	
Red Pine	3	Log/Pole	12	
White Pine	4	Log	13	
Red Maple	20	Pole/Log	8	53
Paper Birch	10	Pole	6	
Black Spruce	5	Log/Pole	10	
Northern White Cedar	30	Pole/Log	8	106
Balsam Fir	18	Pole	7	

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

**45** 42110 - Planted Red Pine Sapling Well 20.9 2 Immature N/A

Flat/unfurrowed planting. Height on red pine are roughly 7-10 inches which meet criteria for a forested stand for conifers.  
-Stand passed year 1 survey after interplanting with 810 TPA. Next step year 3 survey.  
Inter-planting of red pine was completed on 5/4/2023 at 912 TPA  
-PUER 8/12/2022 Comments: Very successful herbicide application on a non-trenched site. Some thicker pockets show some competition survival. Regeneration survey shows ~ 650 trees/a with competition at about 50 trees/ac. Before Application: Oak/RM 20%, JP 30%, Cherry 50%; Post Application: 95%, 90%, and 95% control respectively.  
-A year 1 regeneration survey was completed on 9/19/2022 finding 756 TPA.  
Unfurrowed planting of red pine was completed on 5/10/2022 at 946 TPA  
Stand has been thinned in past. Regen pockets are mostly j. pine, oak, aspen, red maple. Jack pine are natural recruits. The helicopter herbicide application was completed on 7/21/21.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Sapling	1	2



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**46** 6139 - Mixed Lowland Forest Poletimber Well 7.3 52 81-110 N/A Unsure on history. Aspen and Jack Pine were aged between 50-55 years old. Supercanopy Red and White Pine with the featured stand of Aspen and Jack Pine. Density and quality varies. Central portion contains a drainage from water coming from the north in stand 43. Very wet. 8.4" DBH quaking aspen 52 y.o

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	6	Pole	8		White Pine	High	Variable	Sapling
Quaking Aspen	25	Pole	7	52	Balsam Fir	Medium	Variable	Sapling
White Pine	10	Pole	7					
Balsam Fir	5	Pole	6					
Jack Pine	25	Pole/Sapling	6					
White Pine	5	XLog	22					
Red Pine	5	Log/XLog/Pole	17	98				
Paper Birch	7	Pole/Log	9					

**47** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 19.7 36 51-80 N/A Scattered upland islands in the north. South portion seems to sit slightly lower and contains the majority of the water. Few pockets of log aspen remain. Contains characteristics of a floodplain in the far south with slightly flowing water. Most trees are growing on sedge mats. Some stems and leaves indicate the presence of silver maple, especially in the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Sapling	3		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	5					
Red Maple	35	Pole/Sapling	6	36				
Paper Birch	20	Sapling/Pole	4					
Quaking Aspen	20	Pole/Sapling	5	36				
Silver Maple	10	Pole/Sapling	6					

**48** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 22.6 54 51-80 N/A Overall very wet. Mostly tag alder underneath Red Maple, aspen and birch. Scattered slightly higher ground islands contain some better quality timber. Most areas contain standing water.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log/Pole	10		Tag Alder	High	< 5 feet	Tall Shrub
Black Spruce	5	Pole	9					
Balsam Fir	5	Log/Pole	11					
Red Maple	42	Pole/Log	8	54				
Paper Birch	20	Pole	9					
Tamarack	8	Log/Pole	12					
Northern White Cedar	6	Log/Pole	10	80				
White Pine	4	Log/XLog	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**49** 4130 - Aspen Sapling Well 7.1 6 Immature N/A Harvested July 2018. Stand is majority upland with lowland moving north. Some areas to the north have flooded out to cattails and tag alder with some pockets of aspen, fir and red maple. South of the snowmobile trail contains the bigtooth, oak and pines. Overall growing well. No concerns. Scattered log pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2		Jack Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling	1		White Pine	Medium	< 5 feet	Sapling
Balsam Fir	2	Sapling	1		Cattail spp.	Low	Unspecified	Non-Wood
Bigtooth Aspen	60	Sapling	1	6	Red Pine	Low	< 5 feet	Sapling
Quaking Aspen	10	Sapling	1		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Pine	8	Sapling/Pole	2		Balsam Fir	Medium	< 5 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub

**50** 42290 - Natural Mixed Pine Sapling Well 8.0 18 1-50 N/A Harvested 2008 'White Pine 5-spot' 54-014-06. Extremely varying diameter classes in the white pine and some red pine and oak. Overall featured stand is a sapling class with scattered poles and even logs. Some of the 5-spots are heavier to poles. MIFI canopy table will not let me add the Sap/Pole/Log class to the white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	4		Red Maple	Medium	< 5 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Balsam Fir	5	Sapling	1		Black Cherry	Low	< 5 feet	Sapling
White Pine	40	Sapling/Pole	3	18				
Jack Pine	5	Sapling/Pole	3					
Red Pine	25	Sapling/Pole	4					

**51** 4310 - Pine, Oak Mix Sawtimber Well 3.3 110 81-110 N/A South facing aspect with log Oak , Red and White Pine. A handful of xlog aspen that are falling apart. Steeper hill along the north edge with a transition into the cedar swamp along the south edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Black Spruce	Low	< 5 feet	Sapling
Red Pine	25	Log/XLog	16		White Pine	Medium	>20 feet	Pole
Red Oak	35	Log/Pole	14	110	Balsam Fir	Medium	Variable	Sapling
White Pine	25	Log/XLog	16					
Bigtooth Aspen	5	Pole/Log	8					
Red Maple	5	Log/Pole	10					

**52** 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 5.0 115 111-140 N/A Wet. Cedar dominates the 'drier' edges along the northern portion then transitions into very thick fir, spruce sap/poles more interior. Areas of blowdown. Scattered hemlock and birch. Noted some hemlock and cedar regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole	7		Hemlock	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole/Sapling	6		Tag Alder	High	< 5 feet	Tall Shrub
Tamarack	20	Pole	7	100	Northern White Cedar	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole/Log	9		Balsam Fir	High	< 5 feet	Sapling
White Pine	5	XLog/Log	20					
Hemlock	10	Log/Pole	11					
Northern White Cedar	40	Log/Pole	10	115				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>53</b>	4310 - Pine, Oak Mix	Poletimber Well	9.6	26	51-80	N/A	Harvested 1998. 5 spot cut. Heavy to mixed pine in the four east polygons with the far west spot cut almost all Oak. Variable densities and diameters. Scattered log Oak and pine throughout.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	10	Pole/Sapling	6	
Red Maple	8	Pole/Sapling	5	
Black/Red (Hybrid) Oak	35	Pole/Sap/Log	5	26
White Pine	27	Pole	6	
Bigtooth Aspen	10	Pole/Sapling	5	
Red Pine	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Black Cherry	Medium	5 - 10 feet	Sapling

<b>54</b>	42110 - Planted Red Pine	Poletimber Well	10.9	39	141-170	N/A	Planted in 1985. Pocket of Log and Xlog Red Pine in the central and along the east edge. Aspen is mostly in the south.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	3	Pole/Log	9	
Bigtooth Aspen	5	Pole	8	
Red Pine	90	Pole/Log	8	39
White Pine	2	Log/Pole	10	

<b>55</b>	42210 - Natural Red Pine	Sawtimber Well	17.4	89	111-140	N/A	Thinned in 2007 removing any marked pine and all aspen, jack pine and red maple. Seems to have overall larger diameters in the south. More sparser canopy cover south of the snowmobile trail. Aspen regeneration is mostly in the NW, the mixed pine subcanopy is fairly consistent throughout the rest of the stand. Stand is mostly upland, but contains some hummocky ground moving north. White Pine seems slightly older. Unique upland/lowland inclusion with Cedar and Oak in north. Some areas contain nice red and white pine regen ~10-20 ft tall.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	XLog/Log	18	
Red Pine	60	Log/XLog/Pole	17	89
Bigtooth Aspen	3	Pole	9	
Quaking Aspen	2	Pole	7	
Red Maple	2	Pole	9	
Black/Red (Hybrid) Oak	12	Log/XLog	15	
Northern White Cedar	1	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling
Bigtooth Aspen	Medium	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling
Red Pine	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling

<b>56</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	45.5	6	Immature	N/A	Harvested in June 2018 under contract "Nauten My Backyard" 54-039-16. Stand met objectives for a moderately stocked stand. Oak has sprouted very well in most areas and is roughly 10 feet tall. Aspen and red maple stocking are higher in the east half with Oak consistent throughout. Some low stocked deciduous areas where pine regen is present. Far west will transition into more of an Oak savanna appearance due to low Oak stem densities in that area.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Sapling/Pole	2	
White Pine	5	Sapling/Pole	2	
Bigtooth Aspen	10	Sapling	1	
Black/Red (Hybrid) Oak	45	Sapling	1	6
Red Maple	25	Sapling	1	
Black Cherry	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Medium	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Jack Pine	Medium	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>57</b>	4319 - Mixed Upland Forest	Sapling Well	8.8	26	1-50	N/A	Borderline pole stand. Good mix of species with pockets of aspen, oak, red maple and mixed pine. Some lower quality spots with scrubby appearance on the jack pine and aspen. Overall growing well.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		20	Sapling/Pole	4	26	Red Pine		Low	5 - 10 feet	Sapling	
White Pine		5	Pole/Sapling	5		Black/Red (Hybrid) Oak		Medium	Variable	Sapling	
Black/Red (Hybrid) Oak		25	Pole/Sapling	5		White Pine		Low	5 - 10 feet	Sapling	
Jack Pine		30	Sapling/Pole	4	26	Black Cherry		High	5 - 10 feet	Sapling	
Black Cherry		5	Sapling/Pole	4							
Red Pine		8	Pole/Sapling	6							
Red Maple		7	Pole/Sapling	5							

<b>58</b>	4311 - Pine, Aspen Mix	Sawtimber Well	24.9	86	111-140	N/A	Natural Pine with a fairly large aspen component. Scattered wolfy Oak in the northwest portion, jack pine is falling apart and variable/patchy subcanopy pine development. Pine in the subcanopy is under aspen and under less consistent pine canopy. Areas of jack pine mortality contain the majority of the oak saplings. Aspen is overall log with some pockets of poles. RP 86 y.o, WP 94 y.o				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		40	Log/XLog	15	86	White Pine		Medium	Variable	Sapling	
Black/Red (Hybrid) Oak		10	Log/XLog/Pole	14		Red Pine		Low	Variable	Sapling	
Bigtooth Aspen		30	Log/Pole	11		Red Maple		Low	5 - 10 feet	Sapling	
White Pine		10	Log/XLog/Pole	16	94	Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling	
Jack Pine		5	Pole/Log	9		White Pine		Low	>20 feet	Pole	
Red Maple		5	Pole/Log	9							

<b>59</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Well	39.8	26	51-80	N/A	Harvested in 1998. Mix of natural Jack Pine along with mixed deciduous. Good stocking overall.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		5	Sapling/Pole	4		Northern Pin Oak		Medium	5 - 10 feet	Sapling	
Northern Pin Oak		25	Sapling/Pole	4		Black Cherry		High	5 - 10 feet	Sapling	
Jack Pine		55	Sapling/Pole	4	26	Red Pine		Low	< 5 feet	Sapling	
Red Pine		10	Pole/Sapling	6							
Quaking Aspen		5	Sapling/Pole	4							

<b>60</b>	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	11.3	36	51-80	N/A	Planted in 1988. Small inclusion of aspen in the east. Overall just reaching merchantability. Scattered advanced regeneration of red and white pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		12	Pole	5		Black Cherry		High	5 - 10 feet	Sapling	
Red Pine		5	Pole/Sapling	7							
Jack Pine		60	Pole/Sapling	5	36						
White Pine		3	Pole	5							
Black Cherry		10	Sapling/Pole	4							
Northern Pin Oak		10	Sapling/Pole	4							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>61</b>	42110 - Planted Red Pine	Sapling Well	110.6	2	Immature	N/A	<p>Flat planted. Most Red pine are roughly 10" tall. Some areas of mullen and natural established jack pine.</p> <p>Year 1 regen survey after inter-planting passed with 944 TPA, 10.8% mortality and 99% FTG.</p> <p>-Inter-planting of red pine was completed on 5/4/2023 at 957 TPA</p> <p>-PUER 8/12/2022 Comments: Very successful herbicide application on a non-trenched site. Some thicker pockets show some competition survival. Regeneration survey shows ~ 650 trees/a with competition at about 50 trees/ac. Before Application: Oak/RM 20%, JP 30%, Cherry 50%; Post Application: 95%, 90%, and 95% control respectively.</p> <p>-A year 1 regeneration survey was completed on 9/20/2022 finding 708 TPA.</p> <p>Unfurrowed planting of red pine was completed on 4/30/2022 at 928 TPA Shelterwood cut in past. The helicopter herbicide application was completed on 7/21/21.</p>
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling	1	
Red Pine	95	Sapling	1	2

<b>62</b>	4133 - Aspen, Mixed Pine	Poletimber Well	11.1	51	111-140	N/A	<p>Split out of stand 18 due to mapping standards. Aspen with pockets of large wolfy Oaks and scattered white/red pine. Jack pine falling out yielding good oak regeneration underneath. Scattered legacy pine in the north and west edge. Aspen is on the cusp of log.</p>
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	8	Log/Pole	14	
Red Pine	10	Log/Pole/XLog	13	84
Red Maple	10	Pole/Log	9	
Red Oak	15	Log/XLog	16	
Bigtooth Aspen	52	Log/Pole	10	51
Jack Pine	5	Log	10	

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

<b>63</b>	6112 - Lowland Aspen	Poletimber Well	6.1	64	81-110	N/A	<p>Split from stand 42 and excluded from timber sale due to smaller diameters and overall low merchantability. Heavier conifer component throughout with aspen sizes variable. Northern edges are slightly more upland; signs of higher water table in the majority of the stand.</p>
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole/Log	8	
Quaking Aspen	50	Pole/Log	8	64
Paper Birch	5	Pole	9	
Balsam Fir	10	Pole	6	
White Pine	10	Log	11	

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

<b>65</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	4.6	93	111-140	N/A	<p>Long term retention for stand 14. Left as it's own stand due to mapping standards.</p>
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	22	Pole/Log	8	
Bigtooth Aspen	10	Pole	8	
Black/Red (Hybrid) Oak	50	Log/Pole	12	93
Red Pine	10	Log/Pole	12	
Jack Pine	8	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Serviceberry (Juneberry)	Medium	< 5 feet	Tall Shrub
Red Maple	Medium	< 5 feet	Sapling
White Ash	Low	< 5 feet	Sapling
Red Pine	Low	< 5 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**66** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 8.7 105 81-110 N/A

Broken out of larger 'Q' Type. Slightly upland overall compared to the surrounding areas. Higher/drier ridge in the north central slowly drops off to Cedar, lowland hardwood and heavy blowdown. Overall lowland with upland knolls and ridges. Pockets of upland cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log	12	
Red Oak	5	Log/Pole	12	
Red Maple	25	Log/Pole	11	105
White Pine	7	Log/XLog	14	
Northern White Cedar	10	Log/Pole	10	110
Balsam Fir	15	Pole	6	
Paper Birch	9	Log/Pole	10	

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