



# 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

**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:**

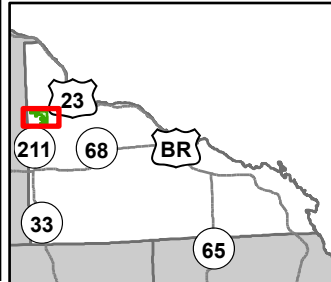
**The following reports from the Inventory are attached:**

- 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**

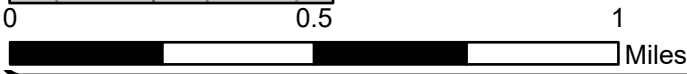
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

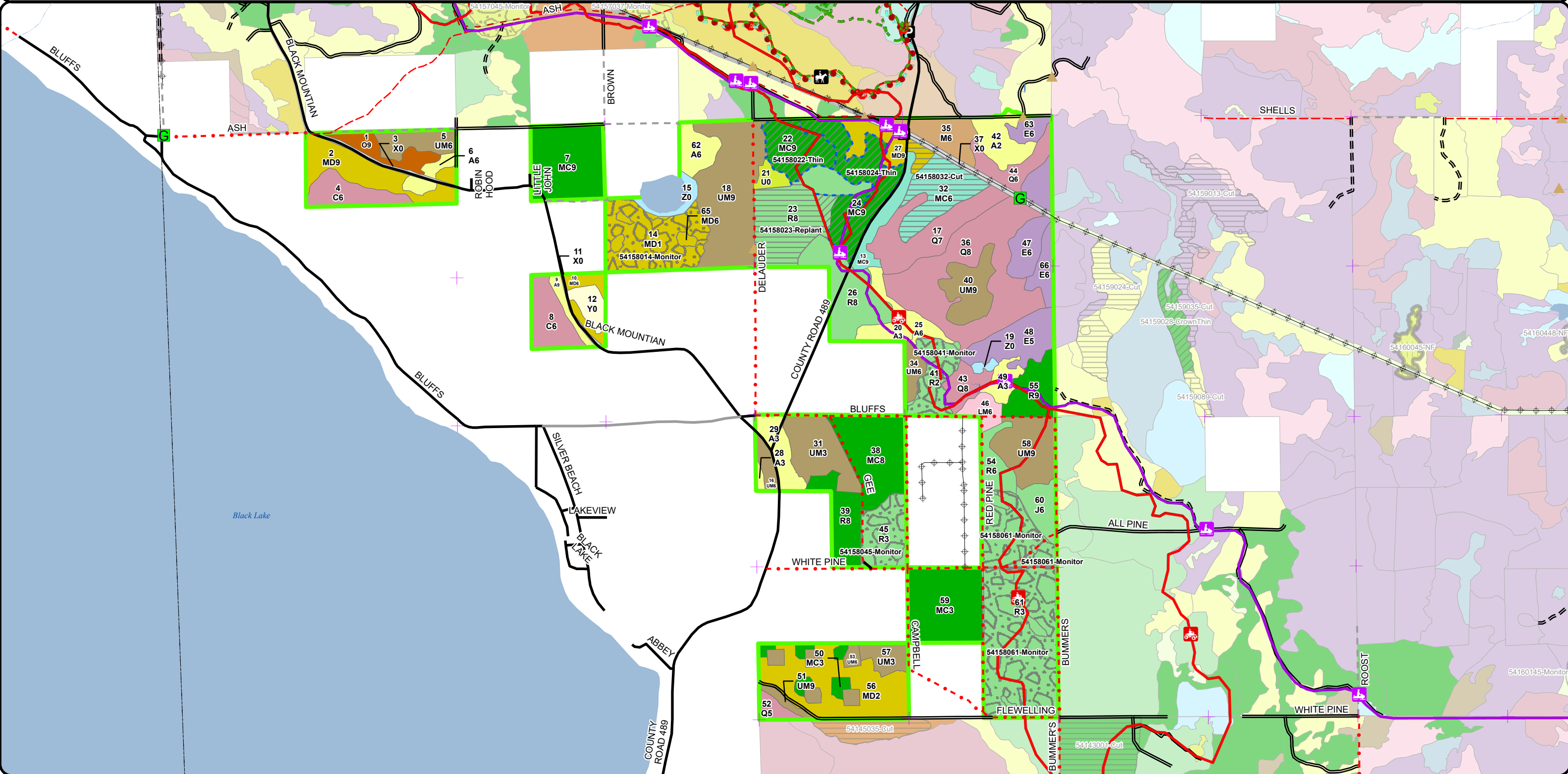
**Cover Type & Treatments Map**



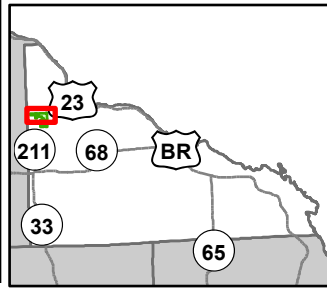
Compartment: 54158  
 T36N, R2E, Sec: 28-30, 33  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Presque Isle Lake  
 and Till Plains  
 YOE: 2026  
 Acres: 1185.2 GIS Calculated  
 Examiner: Trevor Kubitsky  
 Map Revised: 09/10/2024  
 Map Phase: Post Review



- |                              |                                       |                                 |                                   |                                 |
|------------------------------|---------------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| Berms                        | Snowmobile Trails                     | County - Gravel Road            | Clearcut (w/Reserves)             | 430 - Upland Mixed Forest       |
| Gate                         | Designated Bicycle Trails             | County - Dirt Road (Seasonal)   | Thinning (Crown, Low, Systematic) | 611 - Lowland Deciduous Forest  |
| Bridges                      | Designated Equestrian Trails          | Private - Paved Road            | Regeneration Survey               | 612 - Lowland Coniferous Forest |
| Culvert                      | Designated Hiking Pathways            | Private - Dirt / Gravel Road    | 411 - Northern Hardwood           | 613 - Lowland Mixed Forest      |
| Parking Lot                  | Designated ORV Routes                 | Intermittent Stream             | 412 - Oak Types                   | 110 - Low Intensity Urban       |
| Sign                         | Designated Snowmobile Trails          | Lake/Pond                       | 413 - Aspen Types                 | 330 - Low Density Trees         |
| Trailhead                    | Designated ATV Trails                 | Lakes and Rivers                | 419 - Mixed Upland Deciduous      | 500 - Water                     |
| Remonumented Section Corners | DNR - Secondary Forest Road           | Powerline                       | 421 - Planted Pines               | 710 - Sand/Soil                 |
| Horse Trails                 | DNR - Forest Access Route             | Compartment Boundary            | 422 - Natural Pines               |                                 |
| ORV Trails                   | Federal / State / County - Paved Road | Treatments with Site Conditions | 429 - Mixed Upland Conifers       |                                 |



**Cover Type & Treatments Map**

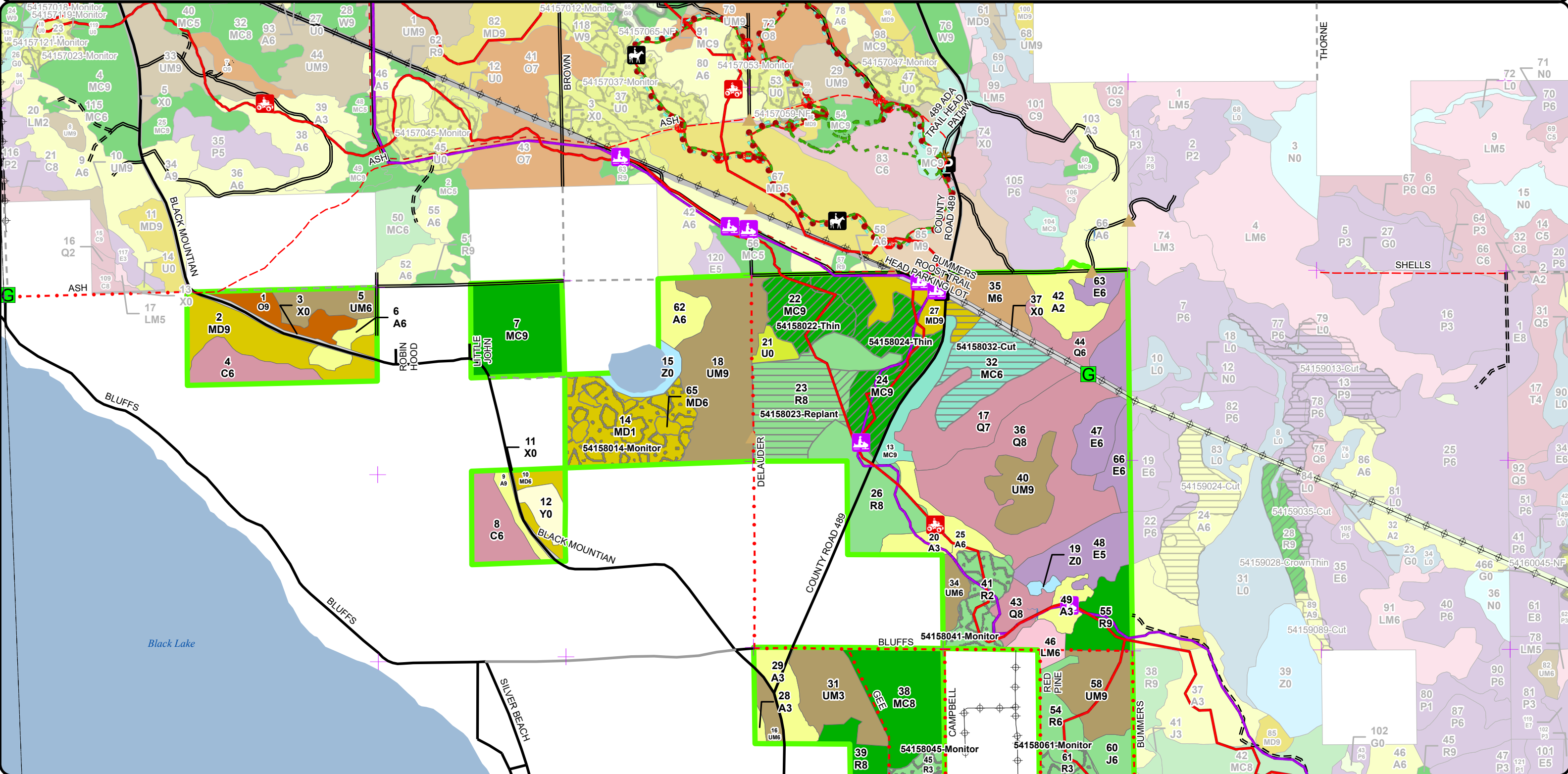


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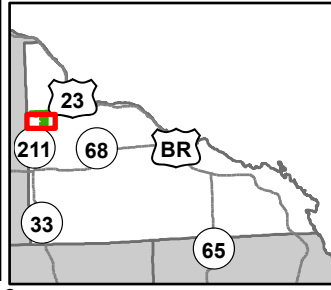


- Berms
- Gate
- Bridges
- Culvert
- Parking Lot
- Sign
- Trailhead
- Remonumented Section Corners
- Horse Trails
- ORV Trails
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Hiking Pathways
- Designated ORV Routes
- Designated Snowmobile Trails
- Designated ATV Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
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- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
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- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
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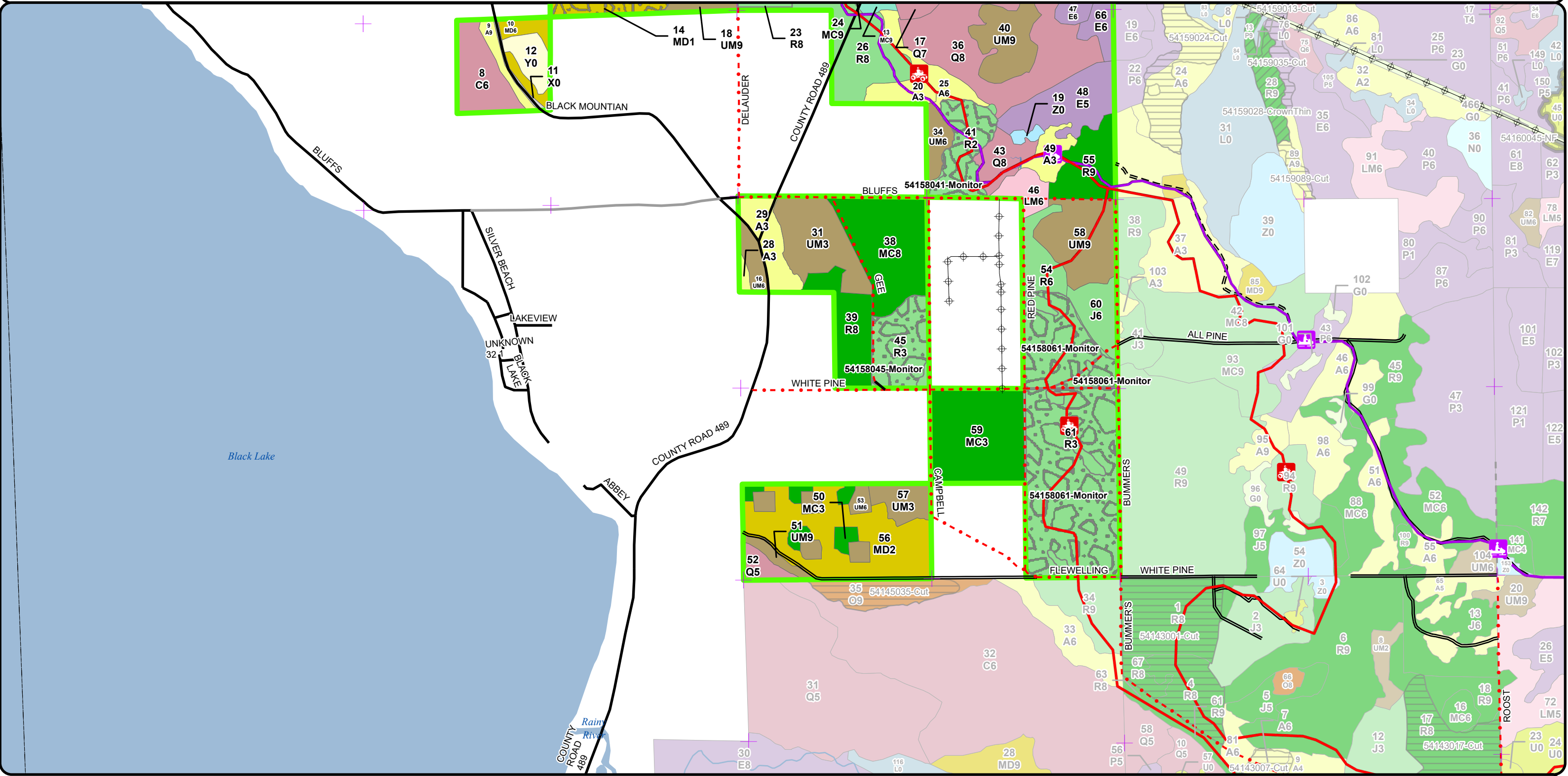
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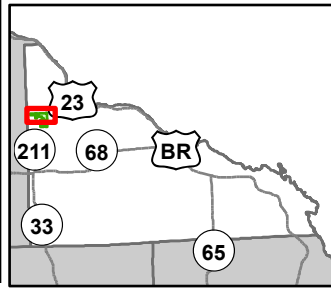
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- |                              |                                       |                                   |                                 |
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| Culvert                      | Federal / State / County - Paved Road | Compartment Boundary              | 429 - Mixed Upland Conifers     |
| Remonumented Section Corners | County - Gravel Road                  | Clearcut (w/Reserves)             | 430 - Upland Mixed Forest       |
| ORV Trails                   | Private - Paved Road                  | Thinning (Crown, Low, Systematic) | 611 - Lowland Deciduous Forest  |
| Snowmobile Trails            | Private - Dirt / Gravel Road          | Regeneration Survey               | 612 - Lowland Coniferous Forest |
| Designated Snowmobile Trails | Lake/Pond                             | 413 - Aspen Types                 | 613 - Lowland Mixed Forest      |
| Designated ATV Trails        | Perennial River                       | 419 - Mixed Upland Deciduous      | 110 - Low Intensity Urban       |
| DNR - Secondary Forest Road  | Lakes and Rivers                      | 421 - Planted Pines               | 500 - Water                     |
| DNR - Forest Access Route    | Powerline                             | 422 - Natural Pines               | 710 - Sand/Soil                 |



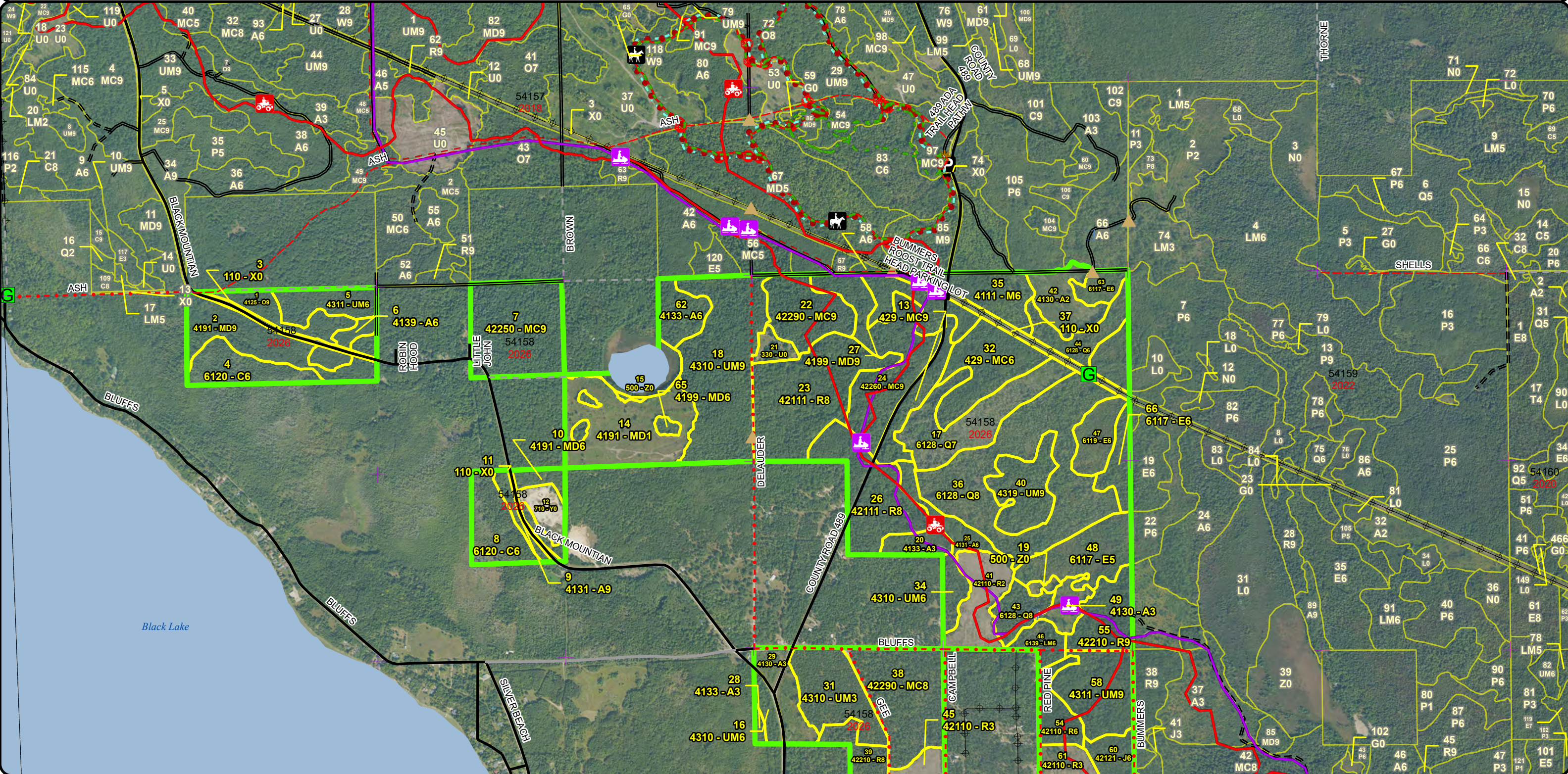
# Stand Boundary Map



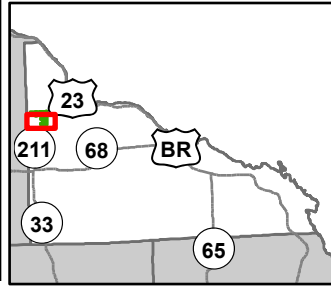
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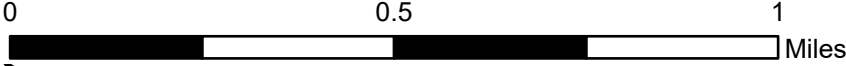
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| Berms                        | ORV Trails                   | DNR - Forest Access Route             | Powerline                    | 429 - Mixed Upland Conifers     |
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| Bridges                      | Designated Bicycle Trails    | County - Gravel Road                  | Stand Boundaries             | 611 - Lowland Deciduous Forest  |
| Culvert                      | Designated Equestrian Trails | County - Dirt Road (Seasonal)         |                              | 612 - Lowland Coniferous Forest |
| Parking Lot                  | Designated Hiking Pathways   | Private - Paved Road                  |                              | 613 - Lowland Mixed Forest      |
| Sign                         | Designated ORV Routes        | Private - Dirt / Gravel Road          | 411 - Northern Hardwood      | 619 - Mixed Upland Deciduous    |
| Trailhead                    | Designated Snowmobile Trails | Intermittent Stream                   | 412 - Oak Types              | 110 - Low Intensity Urban       |
| Remonumented Section Corners | Designated ATV Trails        | Lake/Pond                             | 413 - Aspen Types            | 330 - Low Density Trees         |
| Horse Trails                 | DNR - Secondary Forest Road  | Lakes and Rivers                      | 419 - Mixed Upland Deciduous | 500 - Water                     |
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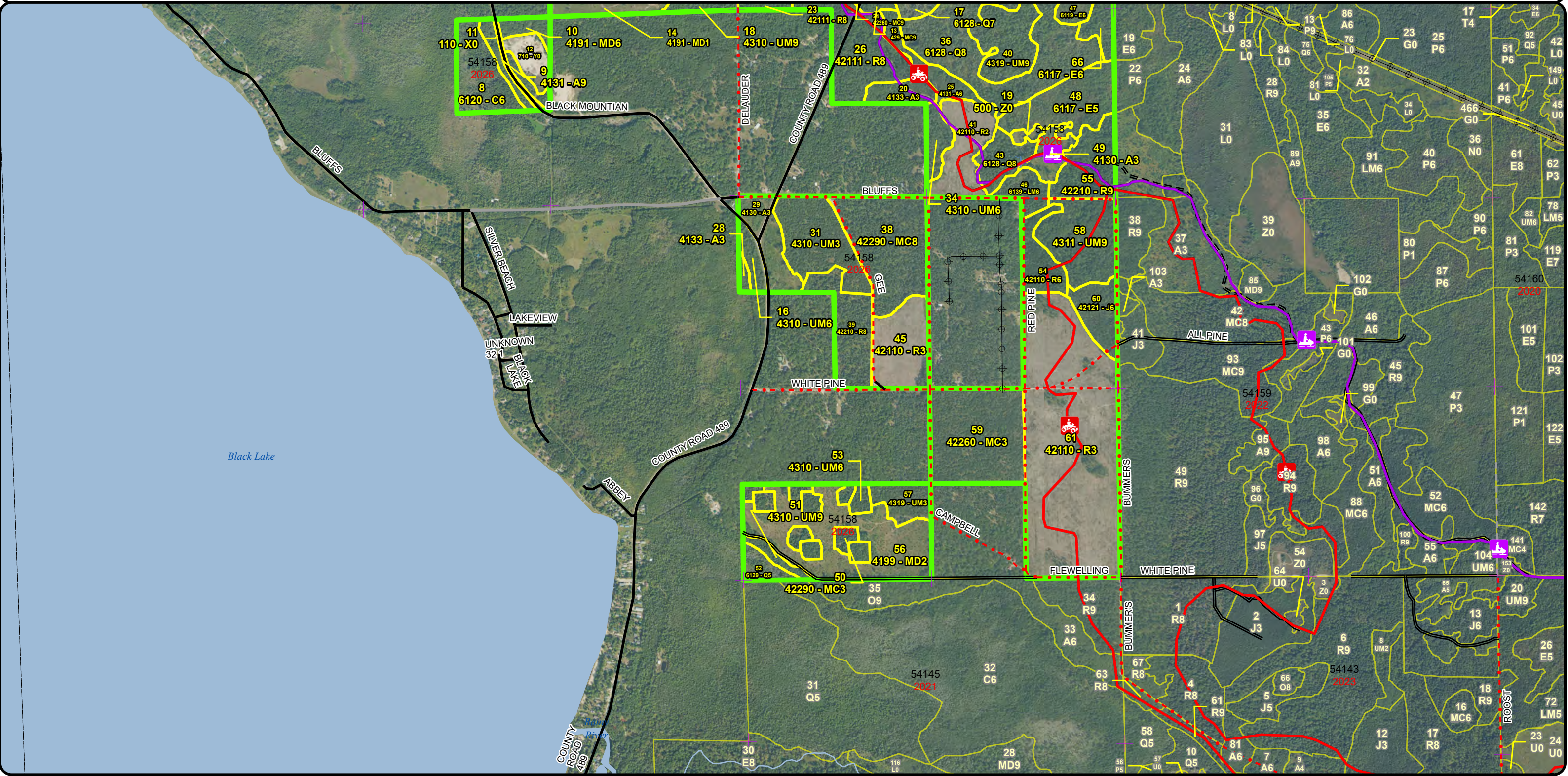
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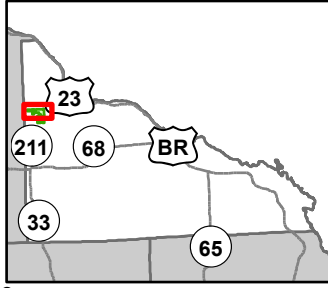


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**Special Conservation Areas & Site Conditions Map**

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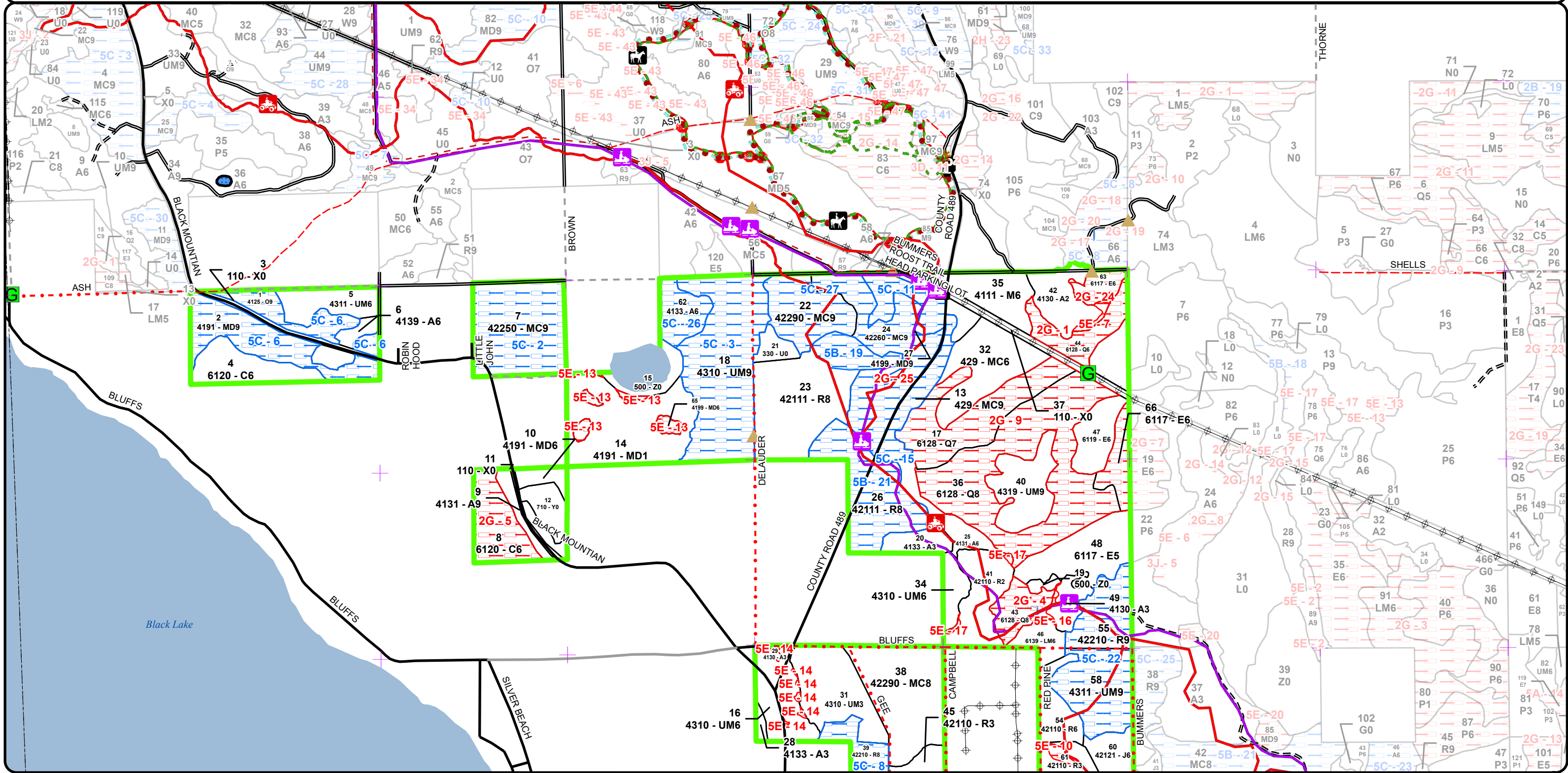


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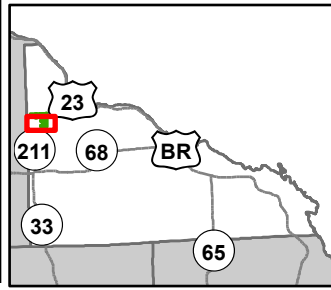
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- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Riparian Area

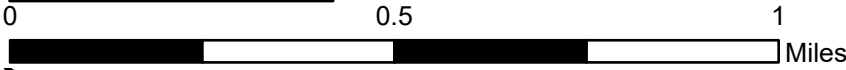




**Special Conservation Areas & Site Conditions Map**



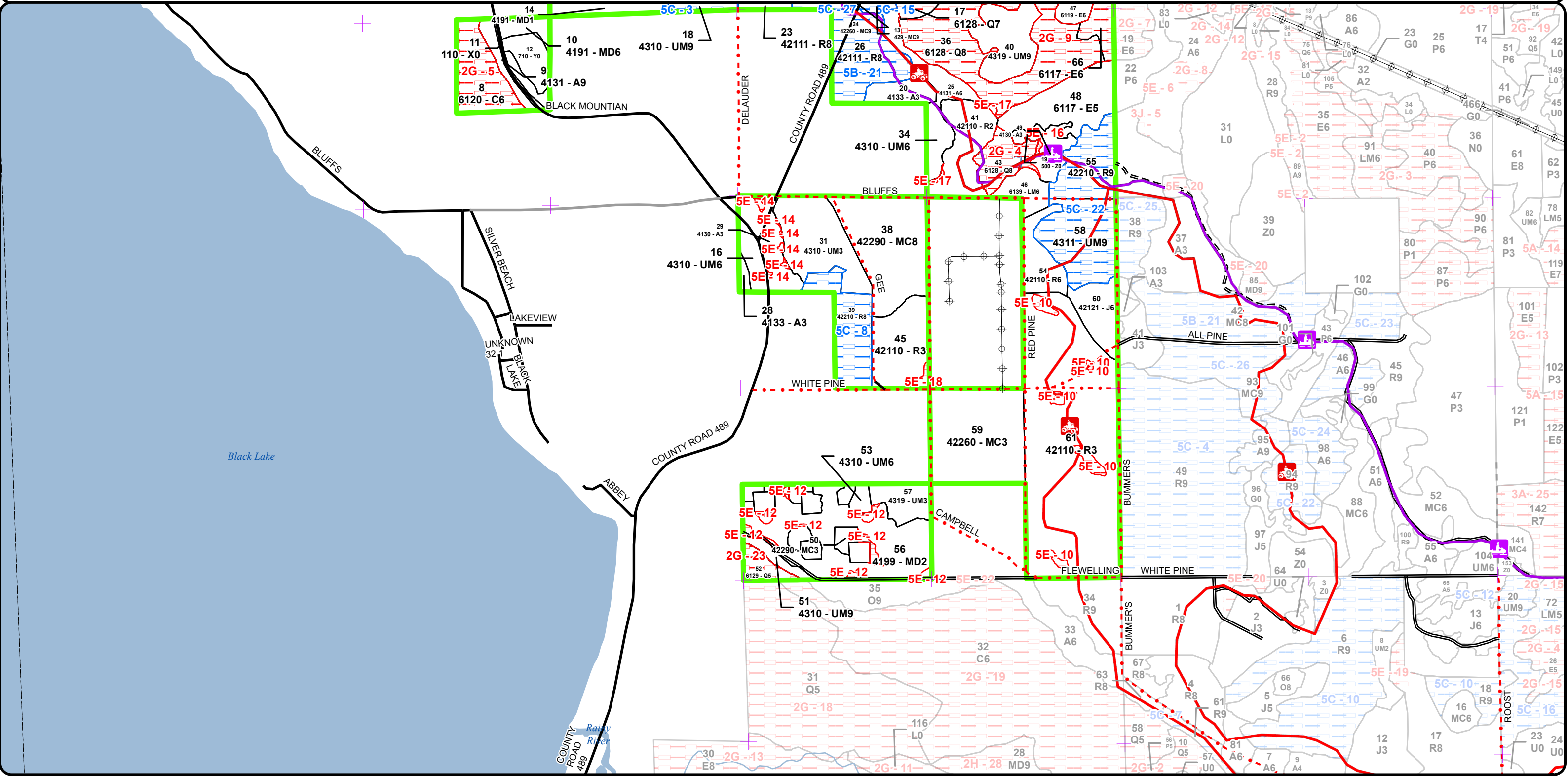
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- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries



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

Atlanta Mgt. Unit

Compartment 158 Year of Entry 2026

Trevor Kubitskey : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	35	0	9	6	10	11	4	0	0	0	0	0	0	0	0	0	0	74
Cedar	0	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	34
Jack Pine	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	10	0	0	13	5	100	0	0	0	0	128
Lowland Deciduous	0	0	0	0	20	0	23	6	0	0	0	9	0	0	0	0	0	0	58
Lowland Mixed Forest	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	86	0	0	0	0	7	0	28	15	5	0	0	0	0	0	0	0	141
Natural Mixed Pines	0	0	8	40	0	0	0	0	0	0	39	60	0	0	0	0	0	36	183
Northern Hardwood	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Oak	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Red Pine	0	151	0	0	11	0	0	0	0	36	78	0	0	0	0	0	0	0	276
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	0	25	0	12	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	0	43	13	0	12	0	0	81	19	0	3	0	0	0	0	0	171
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>39</b>	<b>272</b>	<b>8</b>	<b>92</b>	<b>61</b>	<b>10</b>	<b>60</b>	<b>10</b>	<b>90</b>	<b>132</b>	<b>153</b>	<b>116</b>	<b>8</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>1185</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 158

Total Compartment Acres: 1,185

Commercial Harvest - 63  
 Harvests with Site Condition - 63  
 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
Natural Mixed Pines	0	0	0	0	63	0	0	0	0	63
Red Pine	34	0	0	0	0	0	0	0	0	34
Upland Conifers	29	0	0	0	0	0	0	0	0	29
<b>Total</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	125	0	0	0	0	178	0	0	0	303
Next Step	0	148	148	0	0	286	250	74	0	905
<b>Total</b>	<b>125</b>	<b>148</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>286</b>	<b>428</b>	<b>74</b>	<b>0</b>	<b>1208</b>



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

<b>14</b>	<b>54158014-Monitor</b>	39.5	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	4	Immature	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor. Stand did not meet minimum stocking criteria and MO last regen check. IF stand does not meet moderately stocked criteria, then re-plant areas of lower stocking. Expect areas of lower stocking to be in the south half.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Her</p> <p><u>Acceptable</u> Moderately stocked stand with a mix of Oak, Aspen, Red Maple, and mixed Pine.</p> <p><u>Regen:</u> Expect areas in the north half to be more Oak, Maple, Aspen. Areas in the south half might be more stocked with Red, Jack Pine. IF FAILS: Re-plant south half or lower stocking areas to red pine with adjacent stand (stand 23).</p> <p><u>Other</u> Follow up cultivation treatments are in the lineage.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>22</b>	<b>54158022-Thin</b>	21.1	42290 - Natural Mixed Pine	Sawtimber Well	108	141-170	Harvest	Low Thinning	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Thin down to a residual of ~110-120 sq ft. Remove stagnant intermediate stems, and stems of poor form and mark for best tree in place. Cut Aspen and Oak where needed. Do not cut any legacy pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Natural Mixed Pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Oak wilt specs and Trail protection specs.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>23</b>	<b>54158023-Replant</b>	34.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	94	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 1" DBH and up. Standard retention placed either in the southeast or east portions around the log/xlog Oak ridges. Oak wilt specs, rec trail protection specs and chipping spec with exemption.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Her</p> <p><u>Acceptable</u> Fully stocked planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Check intermediate monitoring treatment in stand 14.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>24 54158024-Thin</b>	41.5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	105	171-200	Harvest	Low Thinning	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Thin stand down to a residual of 120-130 BA targeting stems that are of poor form or suppressed. In areas with high BA (200+), do NOT remove more than a 1/3rd of the basal area. Mark for best tree in place, removing aspen, and oak where needed. Do not spec out aspen. Oak wilt specs and rec trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Natural mixed pines with a minor deciduous component.</p> <p><u>Regen:</u></p> <p><u>Other</u> Goal of the thinning is to increase the overall health of the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>32 54158032-Cut</b>	28.5	429 - Mixed Upland Conifers	Poletimber Well	75	111-140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" DBH and up. Standard retention placed around cedar/hemlock groves, or areas deemed 'too wet'. Mark to leave scattered White/Red Pine not to exceed 10 BA for the sale area. Do NOT cut Oak or Hemlock. Protect fir and white pine saps. Actual treatment acres may be reduced if water levels fluctuate.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderately to fully stocked of any combination of aspen, red maple, oak, cherry, birch, white pine, balsam fir, cedar, hemlock, or red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Upland stand but due to lowland influences, harvest only during dry or frozen conditions. Drumming log, snowshoe hare and oak wilt specs.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

<b>41 54158041-Monitor</b>	17.9	42110 - Planted Red Pine	Sapling Medium	2	Immatu re	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Perform a year 3 artificial regeneration survey for this unfurrowed planting/inter-planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regen can be of well stocked red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>45 54158045-Monitor</b>	19.8	42110 - Planted Red Pine	Sapling Well	2	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Perform a year 3 artificial regeneration survey for this unfurrowed planting/inter-planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen can be of well stocked planted red pine.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>61 54158061-Monitor</b>	100.6	42110 - Planted Red Pine	Sapling Well	2	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Perform a year 3 artificial regeneration survey for this unfurrowed planting/inter-planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen can be of well stocked planted red pine.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment Acreage Proposed: 303.2**

# 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		Dominant Site Conditions	5B	5C	2G	5E
		With Condition	Not Available					
75	61	11	3	Aspen		11	0	3
33	16	0	18	Cedar			18	
11	11	0	0	Jack Pine				
5	5	0	0	Low-Density Trees				
128	0	0	128	Lowland Conifers			128	0
57	42	0	15	Lowland Deciduous			15	
7	7	0	0	Lowland Mixed Forest				0
140	91	40	10	Mixed Upland Deciduous		40		10
183	84	98	1	Natural Mixed Pines		98	1	
16	16	0	0	Northern Hardwood			0	
11	0	11	0	Oak		11		
276	192	78	6	Red Pine	41	37	0	6
8	8	0	0	Sand, Soil				
37	26	11	0	Upland Conifers		11		
172	91	81	0	Upland Mixed Forest		81		0
15	15	0	0	Urban				
11	11	0	0	Water				0
1,185	675	330	180	Total Forested Acres	41	289	161	19
	57%	28%	15%	Relative Percent				

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

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

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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.							



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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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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.							

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

# Report 4 – Site Conditions



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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



### 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																																																													
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				
6	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	
Red Pine		5	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
Red Maple		20	Pole	7		Red Maple		High	10 - 20 feet	Sapling	
White Pine		5	Pole/Log	9		White Pine		Low	Variable	Sapling	
Red Oak		15	Pole/Log/Sap	8							
Bigtooth Aspen		50	Pole	6	37						
Balsam Fir		5	Sapling	2							
7	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		Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling	
White Pine		45	Log/XLog/Pole	17	94	Red Maple		High	10 - 20 feet	Sapling	
						Bigtooth Aspen		Medium	>20 feet	Pole	
						Bigtooth Aspen		High	>20 feet	Sapling	
						Red Pine		Low	10 - 20 feet	Sapling	
8	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	
White Pine		2	XLog/Log	18		Balsam Fir		High	Variable	Sapling	
Red Maple		5	Pole	7							
Red Pine		3	Log/Pole	10							
Paper Birch		5	Pole	6							
Balsam Fir		4	Pole/Log	9							
Quaking Aspen		2	Log	12							
Black Spruce		4	Pole/Log	8							
Tamarack		5	Log/Pole	10							
Northern White Cedar		70	Pole/Log	8	104						
9	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
Red Pine		4	Log/XLog/Pole	15		Black/Red (Hybrid) Oak			Low	10 - 20 feet	Sapling
White Pine		2	Log/Pole	13		Balsam Fir			Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		25	Log/XLog	15		Tamarack			Trace	5 - 10 feet	Sapling
Red Maple		4	Log/Pole	11		Red Maple			Low	5 - 10 feet	Sapling
Bigtooth Aspen		65	Log	11	62	Black Spruce			Low	10 - 20 feet	Sapling
						White Pine			Medium	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**10** 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Jack Pine	Medium	Variable	Sapling
Balsam Fir	5	Pole	6		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	10	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
Jack Pine	5	Pole/Log	9		Red Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	32	Log/Pole	12	98	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
White Pine	10	Log/Pole	10		White Pine	Low	Variable	Sapling
Bigtooth Aspen	33	Pole/Log	9	57				

**11** 110 - Low Intensity Urban Nonstocked 1.8 Unspecified No Black Mountain Rd

**12** 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.

**13** 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Pole	8		Red Oak	Low	10 - 20 feet	Sapling
Red Oak	15	Log/XLog	16		White Pine	Low	5 - 10 feet	Sapling
Northern White Cedar	15	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	15	Log/XLog	16	93				
Red Maple	5	Pole/Log	9					
Hemlock	7	Log	14					
Red Pine	23	Log/XLog	16	97				
Paper Birch	5	Pole	8					

**14** 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Sapling	1		Black/Red (Hybrid) Oak	Medium	< 5 feet	Tall Shrub
Red Pine	5	Sapling/Pole/Log	3		Red Maple	Medium	< 5 feet	Sapling
Jack Pine	10	Sapling	1					
Bigtooth Aspen	35	Sapling	1	4				
White Pine	5	Sapling/Pole	2					

**15** 500 - Water Nonstocked 9.3 Unspecified No Un-named lake.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>16</b>	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>		
Black/Red (Hybrid) Oak		25	Log	12		Red Pine		
Bigtooth Aspen		20	Pole/Sapling	6	28	Red Maple		
Red Maple		5	Pole/Sapling	6		Bigtooth Aspen		
Red Pine		45	Pole/Log	8	51	Balsam Fir		
White Pine		5	Pole/Log	9		White Pine		
						<b>Density</b>		
						<b>Avg. Height</b>		
						<b>Size</b>		
<b>17</b>	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>		
Red Maple		10	Log/Pole	10		Balsam Fir		
Quaking Aspen		5	Log	12		Tag Alder		
Balsam Fir		25	Sapling/Pole	4		White Pine		
Black Spruce		10	Pole/Log	10				
Tamarack		5	Pole/Log	9				
Paper Birch		10	Log/Pole	11				
						<b>Density</b>		
						<b>Avg. Height</b>		
						<b>Size</b>		
<b>18</b>	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>		
Red Maple		5	Pole/Log	9		Black/Red (Hybrid) Oak		
Bigtooth Aspen		10	Log/Pole	12		Red Pine		
White Pine		15	Log/XLog/Pole	16		Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		30	Log/Pole/XLog	15		Bigtooth Aspen		
Red Pine		40	Log/XLog/Pole	16	87	Red Maple		
						Beech		
						White Pine		
						<b>Density</b>		
						<b>Avg. Height</b>		
						<b>Size</b>		
<b>19</b>	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.	
<b>20</b>	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>		
Red Pine		10	Log	13		Red Maple		
Jack Pine		5	Sapling/Pole	3		Black/Red (Hybrid) Oak		
White Pine		5	Log	14		Red Pine		
Black/Red (Hybrid) Oak		10	Pole/Log/Sap	5		White Pine		
Bigtooth Aspen		70	Pole/Sapling	5	28			
						<b>Density</b>		
						<b>Avg. Height</b>		
						<b>Size</b>		



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.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								White Pine	Medium	Variable	Sapling					
								Balsam Poplar	Low	>20 feet	Log					
								Red Oak	Low	>20 feet	Log					
								White Pine	Medium	Variable	Pole					
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.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	50	Log/XLog/Pole	17	108	Red Maple	Medium	10 - 20 feet	Sapling
								Bigtooth Aspen	7	Pole/Log	9		Red Oak	Medium	10 - 20 feet	Sapling
								Red Oak	15	Log/XLog	16		White Pine	Medium	5 - 10 feet	Sapling
								Red Pine	23	Log/XLog	16	97	Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
								Red Maple	5	Log/Pole	13		Beech	Medium	5 - 10 feet	Sapling
													Red Pine	Low	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.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	5	Log/Pole	10	56	White Pine	Medium	Variable	Pole
								Black/Red (Hybrid) Oak	35	Log/XLog	15		White Pine	Medium	Variable	Sapling
								Red Pine	60	Log/XLog/Pole	14	94	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
													Red Maple	High	5 - 10 feet	Sapling
													Red Maple	Medium	>20 feet	Pole
													Bigtooth Aspen	Low	10 - 20 feet	Sapling
													Bigtooth Aspen	Medium	>20 feet	Pole
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.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Bigtooth Aspen	16	Log/Pole	12		White Pine	Medium	Variable	Sapling
								White Pine	30	Log/XLog/Pole	17	108	Red Pine	Low	5 - 10 feet	Sapling
								Northern White Cedar	2	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
								Red Pine	35	Log/XLog	16	105	Ironwood	Low	5 - 10 feet	Sapling
								Hemlock	2	Log	14		Red Maple	Medium	5 - 10 feet	Sapling
								Red Maple	5	Pole/Log	9		Red Oak	Low	Variable	Sapling
								Red Oak	5	Log/Pole	14		Beech	Low	5 - 10 feet	Sapling
								Paper Birch	5	Pole	8		Sugar Maple	Low	10 - 20 feet	Sapling



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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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<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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<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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<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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>29</b>	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
Black Cherry	8	Sapling	1		Red Pine	Low		< 5 feet	Sapling
Bigtooth Aspen	80	Sapling	1	5	Black/Red (Hybrid) Oak	Low		< 5 feet	Sapling
Red Maple	5	Sapling	1		White Pine	Low		< 5 feet	Sapling
Black/Red (Hybrid) Oak	5	Sapling	1		Jack Pine	Low		< 5 feet	Sapling
White Pine	2	Pole	6		Black Cherry	Medium	< 5 feet	Sapling	
<b>31</b>	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		Jack Pine	Low		< 5 feet	Sapling
White Pine	5	Sapling/Pole	4		Juniper	Low		< 5 feet	Tall Shrub
Red Pine	5	Pole/Sapling	6		Northern Pin Oak	Medium		Variable	Sapling
Jack Pine	35	Sapling/Pole	4	26	Black Cherry	High		5 - 10 feet	Sapling
Red Maple	10	Pole/Sapling	5						
Black Cherry	10	Sapling/Pole	4						
<b>32</b>	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
Bigtooth Aspen	15	Log/Pole	10		Balsam Fir	High		Variable	Sapling
Hemlock	10	Log	13		Red Oak	Low		>20 feet	Pole
Balsam Poplar	4	Log/Pole	12		Red Maple	Low		Variable	Sapling
Quaking Aspen	8	Pole/Log	9		Paper Birch	Low		10 - 20 feet	Sapling
White Pine	33	Log/XLog/Pole	15	75	White Pine	Low		5 - 10 feet	Sapling
Balsam Fir	8	Pole/Log	8						
Red Pine	1	Log	16						
Red Maple	5	Pole	8						
Red Oak	1	Log/Pole	12						
Paper Birch	5	Pole	7						
Northern White Cedar	10	Log/Pole	11						
<b>34</b>	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	Black/Red (Hybrid) Oak	Low	5 - 10 feet		Sapling
Red Pine	10	Log/Pole/XLog	13		White Pine	Low	5 - 10 feet		Sapling
White Pine	5	Log/Pole/XLog	15		Red Pine	Medium	>20 feet		Pole
Black/Red (Hybrid) Oak	20	Log	14		Red Pine	Medium	Variable		Sapling
Jack Pine	35	Pole/Log	8	52					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**35** 4111 - S.Maple, Hard Mast Association Poletimber Well 16.2 73 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Log/Pole	12	
White Pine	2	Log/Pole	12	
Red Maple	5	Log/Pole	10	
Paper Birch	5	Log/Pole	11	
Sugar Maple	61	Log/Pole	10	73
Yellow Birch	2	Pole	6	
Basswood	15	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	5 - 10 feet	Sapling
Ironwood	Medium	Variable	Sapling
Sugar Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Beech	Medium	Variable	Sapling

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.

**36** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 69.2 126 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	51
Paper Birch	8	Pole/Log	9	
Quaking Aspen	15	Log/Pole/XLog	11	
Balsam Fir	10	Pole	8	
Northern White Cedar	35	Log/Pole	10	126
Tamarack	5	Pole/Log	8	
Black Spruce	5	Log/Pole	10	
White Pine	7	Log/XLog	14	

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

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.

**37** 110 - Low Intensity Urban Nonstocked 8.8 Unspecified No Powerline

**38** 42290 - Natural Mixed Pine Sawtimber Medium 36.0 45 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	28	Pole	9	79
Jack Pine	47	Pole/Log	8	45
Red Pine	20	XLog	19	95
Black/Red (Hybrid) Oak	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Medium	< 5 feet	Seeding
White Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Red Pine	Low	>20 feet	Pole
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Pine	Medium	5 - 10 feet	Sapling
Black Cherry	Medium	5 - 10 feet	Sapling

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.



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
White Pine	20	XLog	20	102
Northern White Cedar	15	Log/Pole	10	
Red Pine	5	XLog/Log	18	95
Red Maple	10	Log/Pole	10	
Paper Birch	5	Pole	7	
Red Oak	3	Pole/Log	8	
Quaking Aspen	22	Log/Pole	12	71
Balsam Fir	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling
White Pine	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Black Ash	Low	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
Black Spruce	5	Log/Pole	10	
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	
Balsam Fir	18	Pole	7	
Northern White Cedar	30	Pole/Log	8	106

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

**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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<b>46</b>	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 Pine		5	Log/XLog/Pole	17	98	White Pine		High	Variable	Sapling	
Jack Pine		25	Pole/Sapling	6		Red Maple		Low	5 - 10 feet	Sapling	
Paper Birch		7	Pole/Log	9		Balsam Fir		Medium	Variable	Sapling	
Quaking Aspen		25	Pole	7	52						
White Pine		10	Pole	7							
Red Maple		12	Pole	7							
Black/Red (Hybrid) Oak		6	Pole	8							
Balsam Fir		5	Pole	6							
White Pine		5	XLog	22							

<b>47</b>	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	
Balsam Fir		10	Pole/Sapling	5		Tag Alder		High	5 - 10 feet	Tall Shrub	
Red Pine		5	Sapling	3							
Silver Maple		10	Pole/Sapling	6							
Red Maple		35	Pole/Sapling	6	36						
Paper Birch		20	Sapling/Pole	4							
Quaking Aspen		20	Pole/Sapling	5	36						

<b>48</b>	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	
Tamarack		8	Log/Pole	12		Tag Alder		High	< 5 feet	Tall Shrub	
Red Maple		42	Pole/Log	8	54						
Quaking Aspen		10	Log/Pole	10							
Black Spruce		5	Pole	9							
Balsam Fir		5	Log/Pole	11							
Paper Birch		20	Pole	9							
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	
<b>49</b>	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.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		8	Sapling/Pole	2		Balsam Fir		
Black/Red (Hybrid) Oak		10	Sapling	1		Red Pine		
Bigtooth Aspen		60	Sapling	1	6	Black/Red (Hybrid) Oak		
Red Maple		10	Sapling	2		Cattail spp.		
Balsam Fir		2	Sapling	1		Jack Pine		
Quaking Aspen		10	Sapling	1		White Pine		
						Tag Alder		
<b>50</b>	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.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Jack Pine		5	Sapling/Pole	3		Black/Red (Hybrid) Oak		
Red Maple		15	Sapling/Pole	4		Black Cherry		
Black/Red (Hybrid) Oak		10	Sapling/Pole	3		Red Maple		
Red Pine		25	Sapling/Pole	4				
Balsam Fir		5	Sapling	1				
White Pine		40	Sapling/Pole	3	18			
<b>51</b>	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.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		5	Pole	8		Balsam Fir		
Red Oak		35	Log/Pole	14	110	White Pine		
Bigtooth Aspen		5	Pole/Log	8		Black Spruce		
Red Pine		25	Log/XLog	16				
White Pine		25	Log/XLog	16				
Red Maple		5	Log/Pole	10				
<b>52</b>	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.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Tamarack		20	Pole	7	100	Balsam Fir		
White Pine		5	XLog/Log	20		Hemlock		
Hemlock		10	Log/Pole	11		Tag Alder		
Paper Birch		5	Pole/Log	9		Northern White Cedar		
Black Spruce		15	Pole	7				
Balsam Fir		5	Pole/Sapling	6				
Northern White Cedar		40	Log/Pole	10	115			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
<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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<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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<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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<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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<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.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		5	Pole/Sapling	5		White Pine		
Bigtooth Aspen		20	Sapling/Pole	4	26	Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		25	Pole/Sapling	5		Red Pine		
Red Pine		8	Pole/Sapling	6		Black Cherry		
Red Maple		7	Pole/Sapling	5				
Black Cherry		5	Sapling/Pole	4				
Jack Pine		30	Sapling/Pole	4	26			
<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	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Jack Pine		5	Pole/Log	9		Red Maple		
Bigtooth Aspen		30	Log/Pole	11		Black/Red (Hybrid) Oak		
Red Maple		5	Pole/Log	9		Red Pine		
Black/Red (Hybrid) Oak		10	Log/XLog/Pole	14		White Pine		
Red Pine		40	Log/XLog	15	86	White Pine		
White Pine		10	Log/XLog/Pole	16	94			
<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.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Northern Pin Oak		25	Sapling/Pole	4		Northern Pin Oak		
Jack Pine		55	Sapling/Pole	4	26	Red Pine		
Red Pine		10	Pole/Sapling	6		Black Cherry		
Quaking Aspen		5	Sapling/Pole	4				
Black Cherry		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.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		5	Pole/Sapling	7		Black Cherry		
Jack Pine		60	Pole/Sapling	5	36			
White Pine		3	Pole	5				
Bigtooth Aspen		12	Pole	5				
Northern Pin Oak		10	Sapling/Pole	4				
Black Cherry		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
Red Pine	95	Sapling	1	2
Jack Pine	5	Sapling	1	

<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	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	52	Log/Pole	10	51	White Pine	Low	Variable	Sapling
White Pine	8	Log/Pole	14		Red Pine	Low	10 - 20 feet	Sapling
Red Pine	10	Log/Pole/XLog	13	84	Red Oak	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
Red Oak	15	Log/XLog	16		Beech	Low	5 - 10 feet	Sapling
Jack Pine	5	Log	10					

<b>63</b>	6117 - Lowland Deciduous, Mixed Coniferous	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. Possible old cedar strip cut?</p>
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	7		Balsam Fir	High	Variable	Sapling
Quaking Aspen	38	Pole/Log	8	64	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	20	Pole/Log	8		Red Maple	Medium	Variable	Sapling
White Pine	10	Log	11					
Black Spruce	5	Pole	7					
Balsam Fir	15	Pole	6					

<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	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	22	Pole/Log	8		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole	8		White Ash	Low	< 5 feet	Sapling
Jack Pine	8	Pole	6		Red Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	50	Log/Pole	12	93	Serviceberry (Juneberry)	Medium	< 5 feet	Tall Shrub
Red Pine	10	Log/Pole	12		Red Maple	Medium	< 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
White Pine	7	Log/XLog	14	
Northern White Cedar	10	Log/Pole	10	110
Quaking Aspen	24	Log/XLog/Pole	12	
Paper Birch	9	Log/Pole	10	
Red Oak	5	Log/Pole	12	
Balsam Fir	15	Pole	6	
Red Maple	25	Log/Pole	11	105

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