



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54077

Entry Year 2022

Acreage: 1,163

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 2020-08-27

Stand Examiner: Daniel Natzke

Legal Description:

T32N R04E S. 21, 30, 31 & 33.

Identified Planning Goals:

Planning goals for this compartment include balancing age classes in aspen and regenerating aging oak stands. In current mature oak stands, aspen and red maple are common associates. One should expect that in a regeneration harvest, the proportion of oak will decline and that of aspen and red maple will increase to the extent that these stands will not be true oak stands in the future, with the possible exception of those stands on the poorest sites. However, it should be noted that oak will likely remain a component of these stands. Harvests in this year of entry will be smaller, more spread-out across the compartment, and allow for future harvests to approach balancing the ages of numerous types of stands.

Soil and topography:

The majority of Compartment 77 consists of the Graycalm-Horeshead Soil Association. These soils are level to gently rolling, somewhat excessively drained sands situated in outwash plains of glacially deposited sand and gravel. Minor soils include moderately well drained to very poorly drained soils in drainages and depressions between upland flats and ridges. Soils of the Millersburg-Klacking-Horeshead Association make up the balance of the compartment. These level to very hilly soils are well drained sands and loams situated in moraines. Minor soils in the association consist of a wide range of drainage classes from excessively drained outwash flats to very poorly drained depressions between uplands.

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

Private land used for hunting camps, vacation cottages and resorts surround most of the compartment. A few significant subdivisions, focused on numerous small lakes, are located adjacent or nearby. There are a few small state-owned 40-acre parcels and one island in the middle of Long Lake. Major roads like County Road 628 and 459 approach or cross portions of the compartment.

Unique Natural Features:

While nothing especially unique is present in the compartment, its hills and nearby lakes and streams present attractive seasonal views. Species of concern exist in or near the compartment.

Archeological, Historical, and Cultural Features:

Some possible archaeological, historical, and cultural features may exist in the compartment but need confirmation.

Special Management Designations or Considerations:

There are no special management designations currently.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of heavy aspen and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Sections 19 & 30-33, T32N-R4E, Montmorency County

Active sand/gravel pits do not occur within four miles of the compartment. Sand & gravel potential in the compartment is considered moderate. There has been no known oil & gas exploration or development in this area. The nearest oil & gas production, past or present is more than two miles away. The Antrim Shale is too thin or absent here, and there is no

known hydrocarbon potential from any other proven formations. There is no mineral leasing activity in the area. Oil & gas potential is considered low at this time. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

Vehicle access is reasonably good in this compartment. County Road 628 provides access to the northern portion of the compartment, Ess Lake Drive provides access to the southern portion of the compartment, and County Road 459 is adjacent to or traverses the two isolated 40-acre parcels. Sorensen Road accesses the compartment's north and west. From these roads, numerous two tracks make access easy to much of the compartment.

Survey Needs:

Virtually all necessary corners to establish public/private ownership exist in records. Little to no survey work should be required.

Recreational Facilities and Opportunities:

This compartment sees almost daily use along its forest roads for those on foot, ATV, and snowmobile, with areas near Sorensen Road and Ess Lake seeming particular favorites. The compartment offers numerous opportunities for hunting, fishing, wildlife viewing, hiking, mushrooming, and berry picking.

Fire Protection:

Fire response in the area may be from surrounding local volunteer fire departments and task forces from Alpena, Atlanta, and Onaway DNR stations.

Additional Compartment Information:

There is currently no further compartment information.

The following reports from the Inventory are attached:

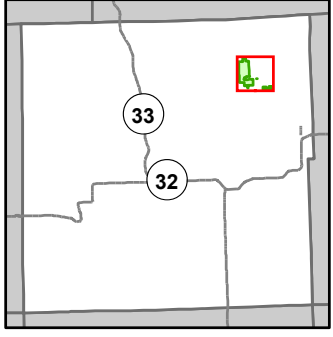
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

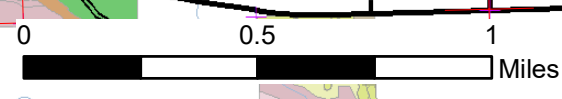
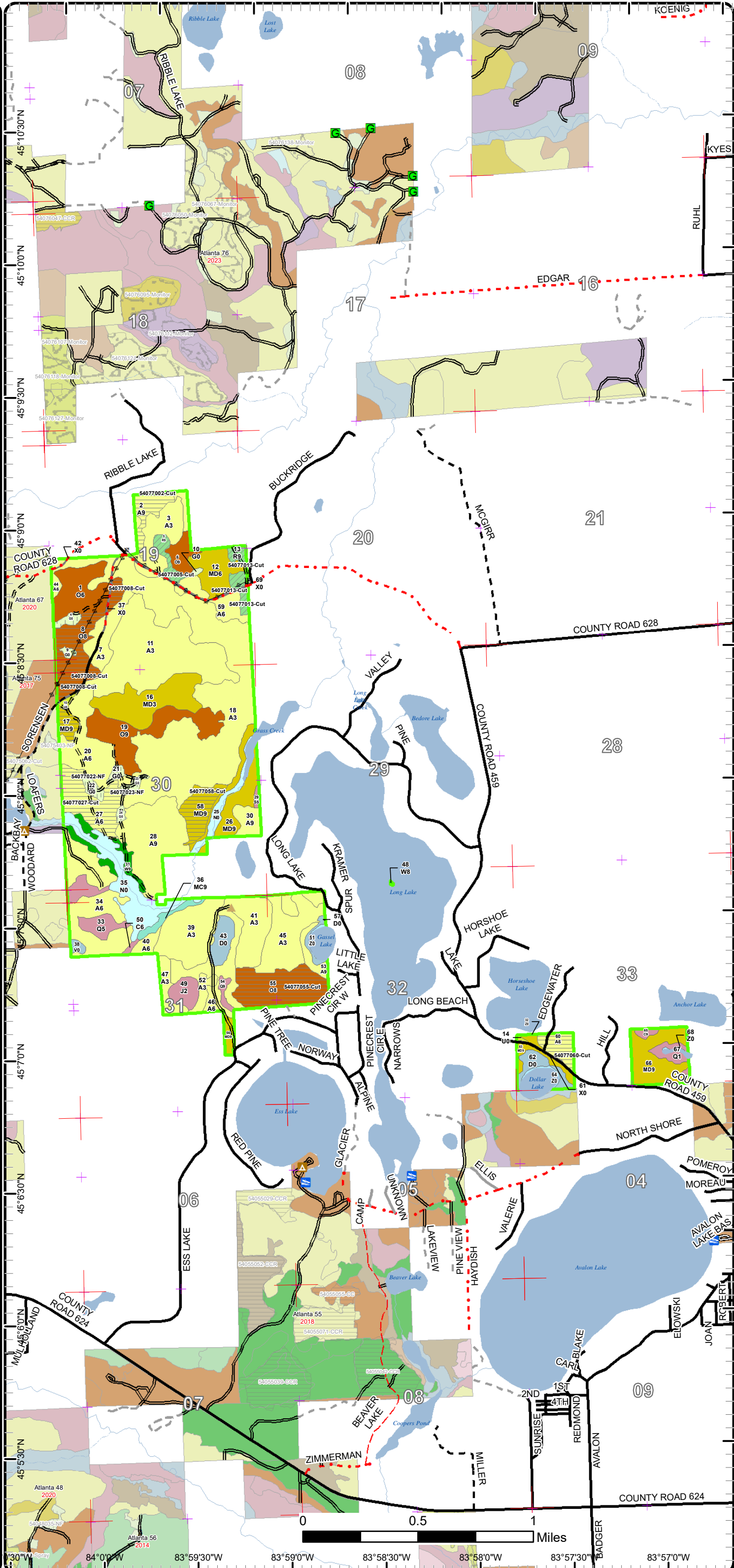
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 77
 T32N, R04E, Sec. 19, 30-33
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2022
 Acres: 1,163 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 10/22/2020
 Map Phase: Post-Review



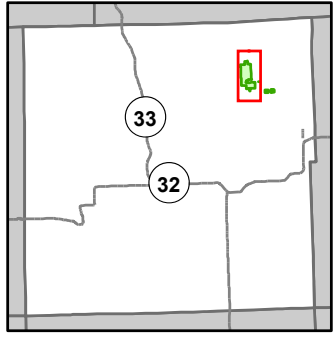
- Miris Corners
- ⊕ Remonumented Section Corners
- ▭ Counties
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- == DNR - Forest Access Route
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- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



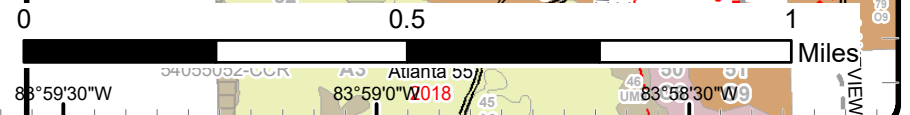
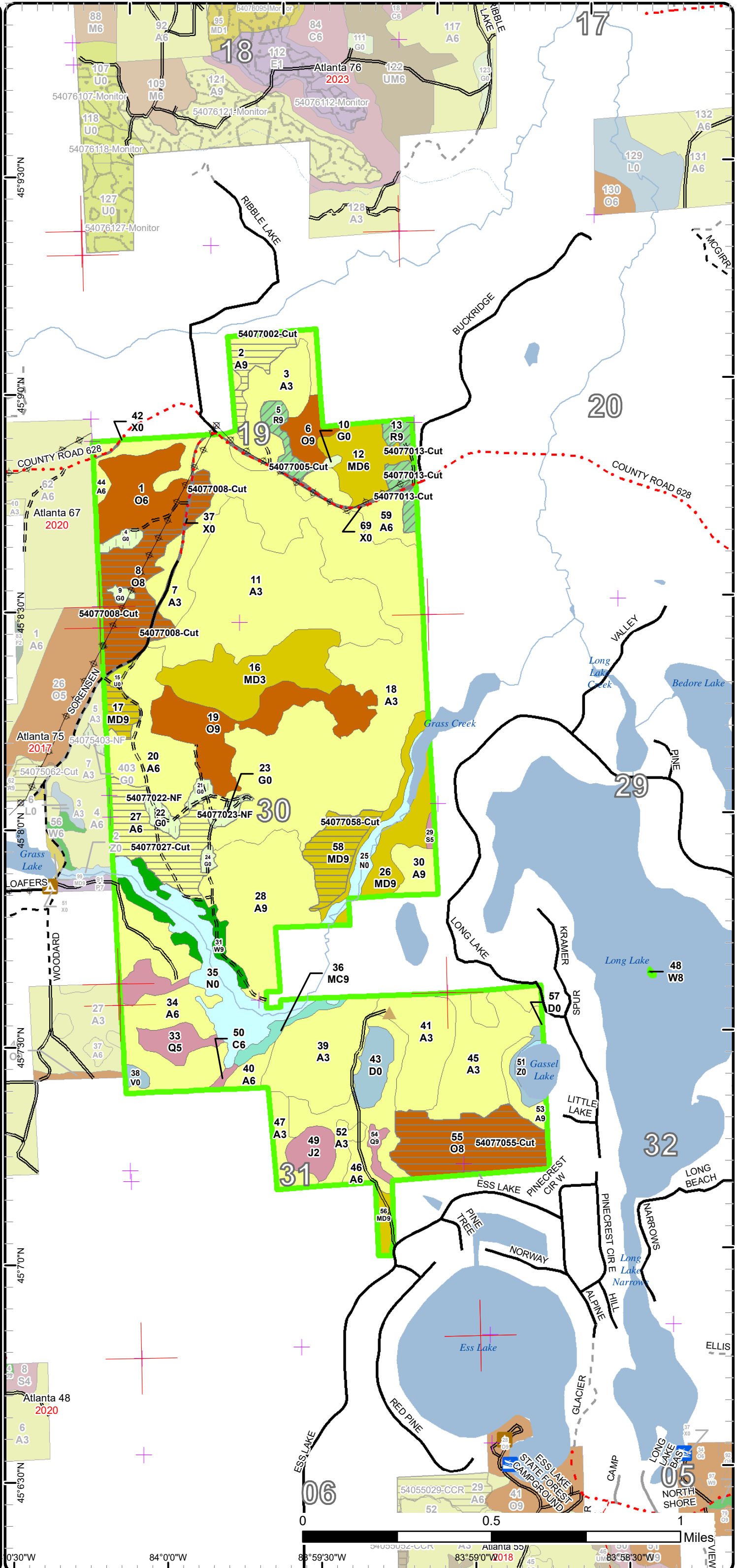
84°0'0"W 83°59'30"W 83°59'0"W 83°58'30"W 83°58'0"W 83°57'30"W 83°57'0"W

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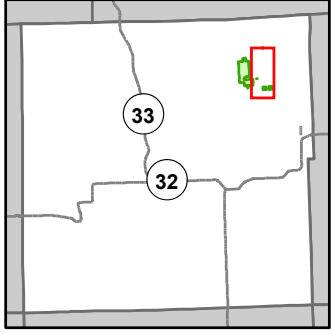


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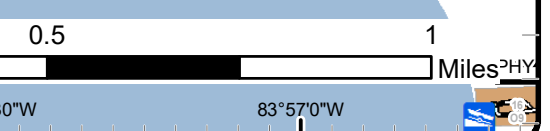
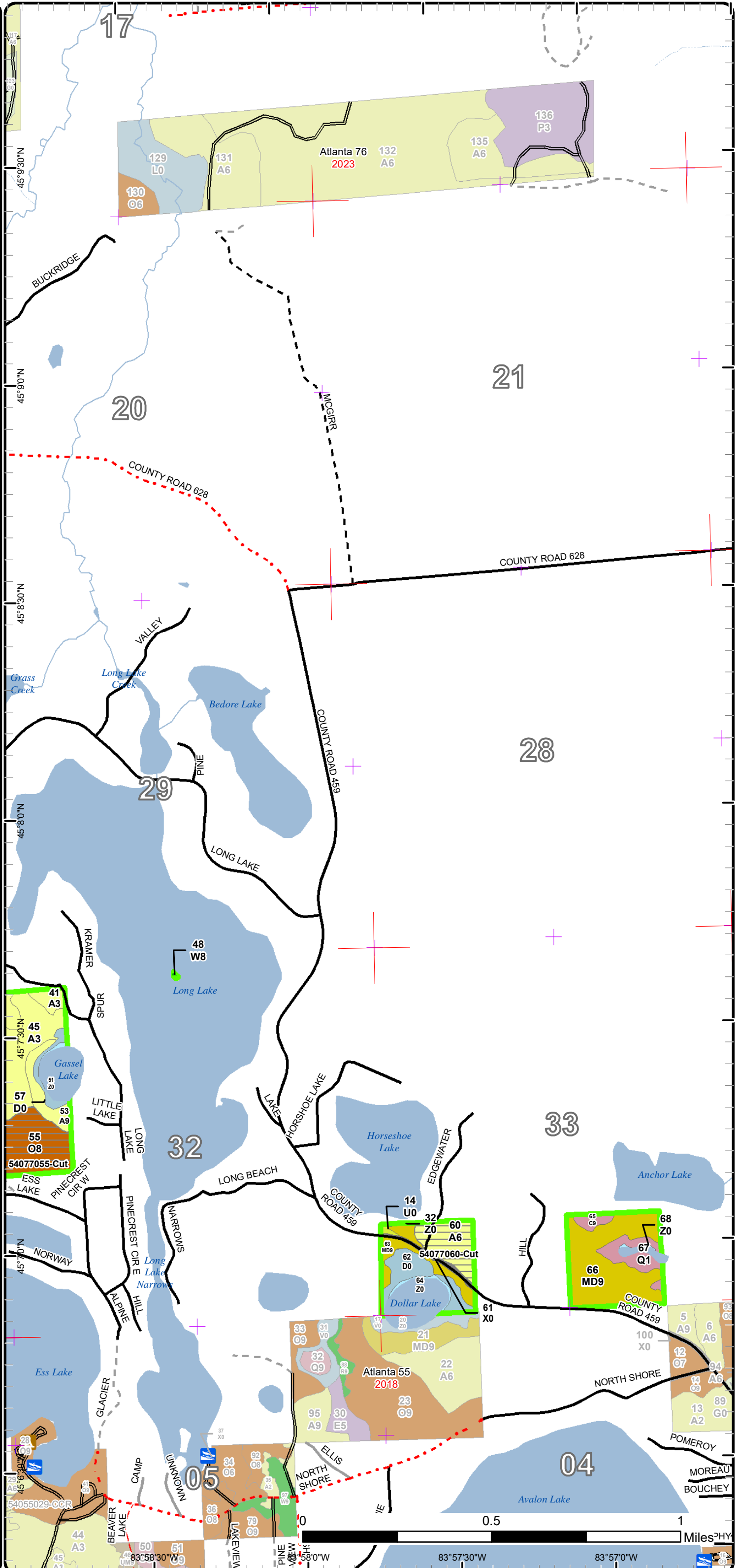


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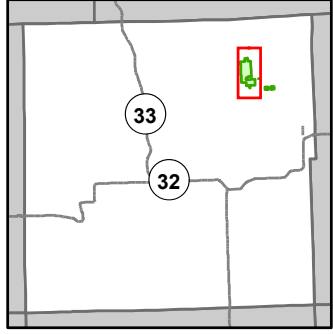


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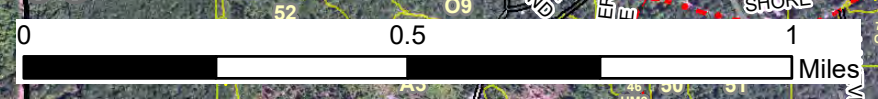
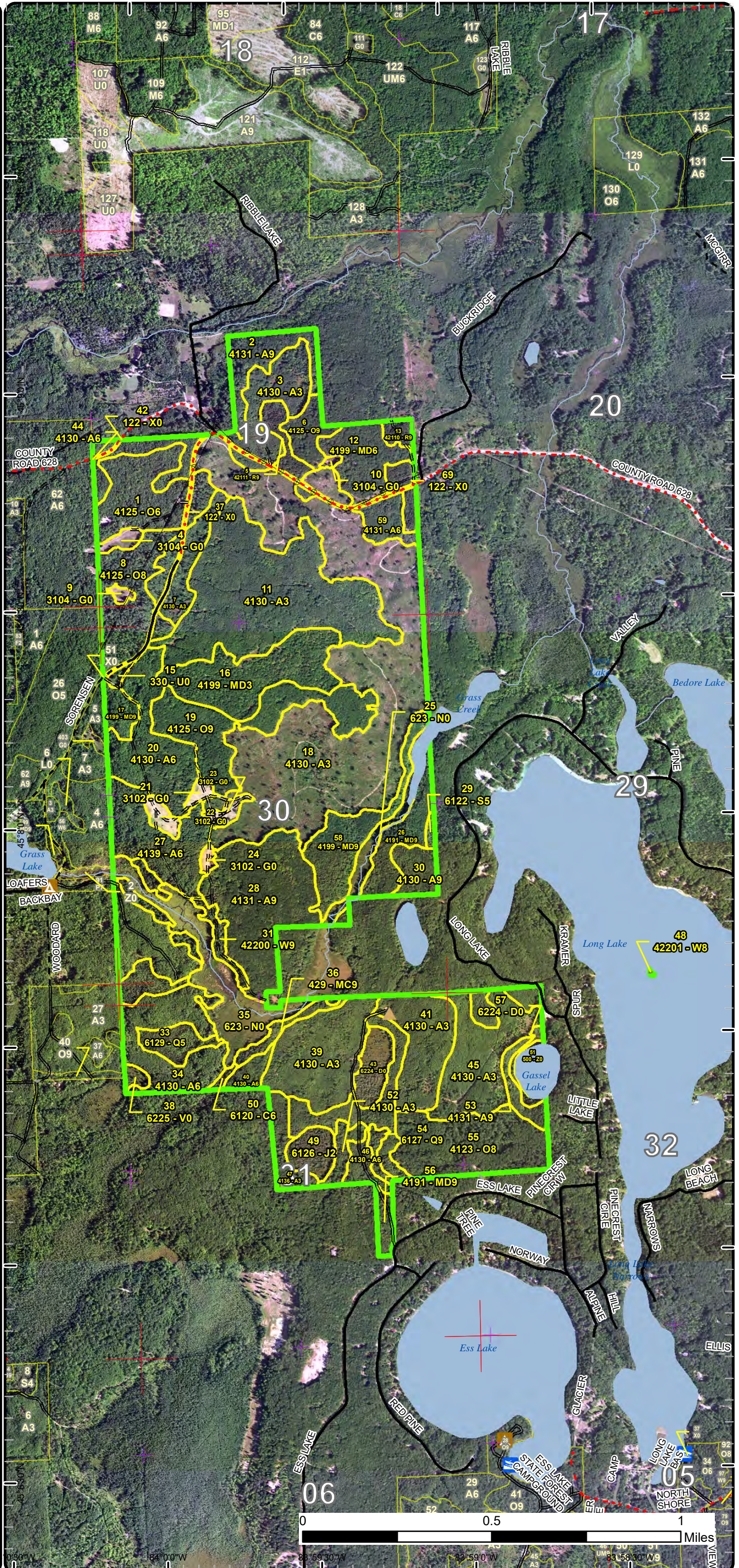


Stand Boundary Map

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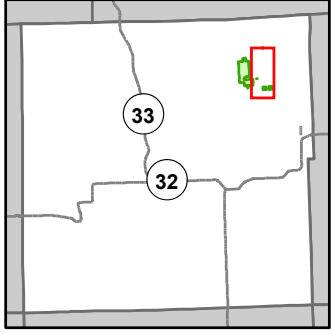
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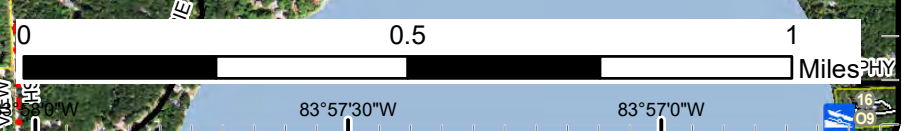
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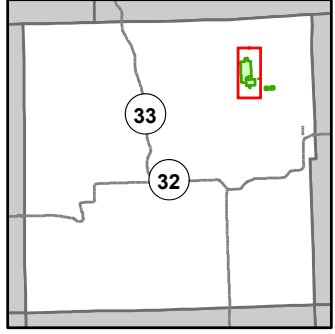


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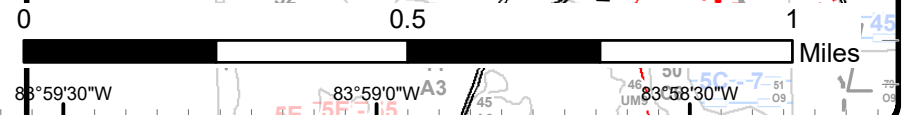
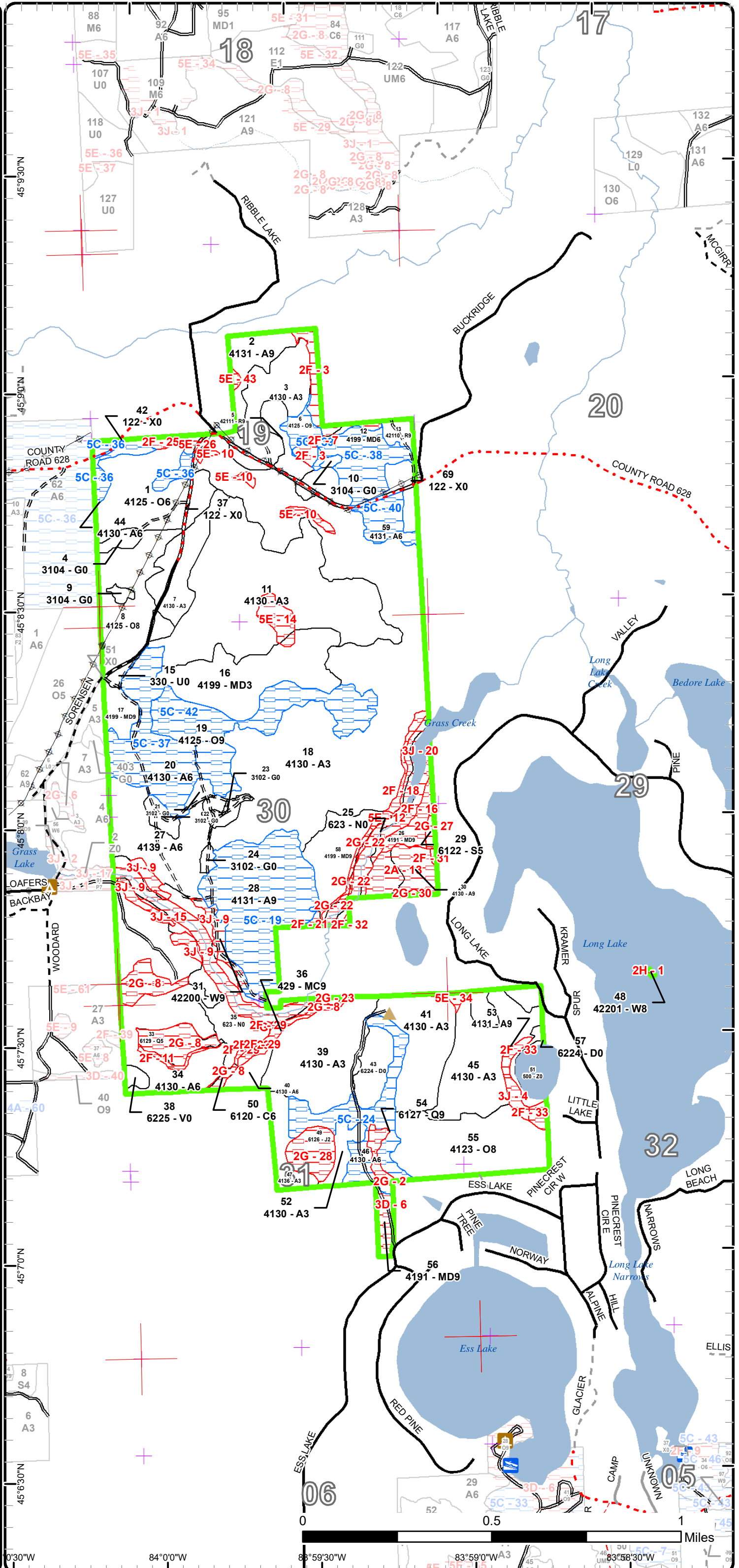


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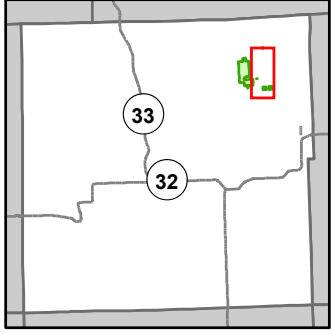


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes

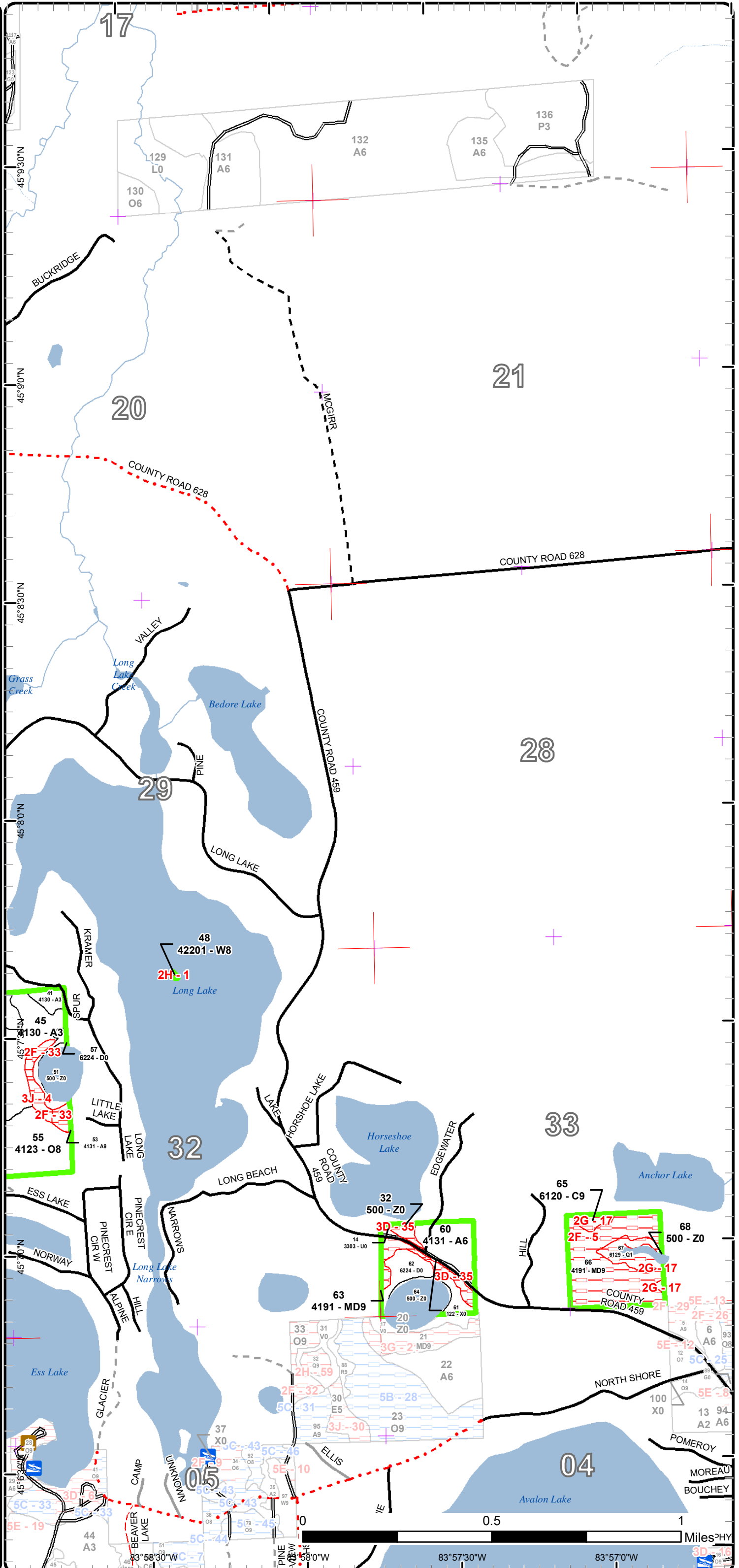


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- Stand Boundaries
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- Cold Water Lakes



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment 77 Year of Entry 2022



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	174	94	158	50	113	11	0	9	59	0	16	0	0	0	0	0	0	684
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Jack Pine	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	3	15	7	0	0	0	0	0	0	25
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Marsh	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Mixed Upland Deciduous	0	0	0	38	0	0	0	29	0	67	12	0	0	0	0	0	0	0	146
Oak	0	0	0	0	0	28	0	0	0	82	0	40	0	0	0	0	0	0	150
Red Pine	0	0	0	0	0	0	7	9	0	0	0	0	0	0	0	0	0	0	16
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Total	113	174	94	196	50	141	27	38	9	209	20	83	7	0	1	2	0	0	1162



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 77

Year of Entry: 2022

Acres of Harvest

Total Compartment Acres: 1,163

Commercial Harvest - 165
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	52	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	23	0	0	0	0	0	0	0	0	23
Oak	74	0	0	0	0	0	0	0	0	74
Red Pine	0	0	0	0	16	0	0	0	0	16
Total	149	0	0	0	16	0	0	0	0	165

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	165	0	0	0	0	0	0	13	0	178
Next Step	0	0	0	0	0	149	0	0	0	149
Total	165	0	0	0	0	149	0	13	0	327



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

2	54077002-Cut	11.9	4131 - Aspen, Oak	Sawtimber Well	107	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with area retention, pre-excluded on the steep slopes in the West, and individual tree standards. Mark to retain individual pine, preferably those with dead tops or cavities, along with legacy oak (where extant) not to exceed 10BA. Consider protecting legacy oak with trees either marked as bumpers or as trees to retain (essentially making a small clump). Grouse log specification. Raptor nest specification. 2" specification. Roundwood to protect slopes. Harvest outside of spring and use operating caution on the far northwest corner due to potentially wet soil.</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> Any combination of aspen, maple, oak and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
4	54077004-NF	2.9	3104 - Degraded	Nonstocked			Unspec ified	NonForestMgt /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
5	54077005-Cut	6.7	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	59	171- 200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin following the order or removal for red pine to approximately 120 BA over all. Rows must be established in the northern 2/3 of the stand. Thin between these rows as well. Bark slip specifications. Thin with stand 13.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
8 54077008-Cut	33.9	4125 - Black, N. Pin Oak	Sawtimber Medium	85	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with 3-10% area retention. Focus retention north of stand 9 in areas with good advanced pine regeneration, mature pine and legacy oak. Raptor nest specification. 2" specification. Oak wilt specification. Mark to retain individual red and white pine focusing on trees with cavities or dead tops, as well as any other existing legacy oak not to exceed 10BA.</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 Regen:</u> Any combination of aspen, maple, oak and pine yielding a stand of at least moderate stocking.</p> <p><u>Other Comment:</u> Whole tree skid the entire stand to reduce advanced maple and aspen regeneration to the same level as the oak. If whole tree skidding is impossible, aggressively follow the 2" specification.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
13 54077013-Cut	9.4	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin following the order or removal for red pine to 120 BA. Rows are sufficiently wide and well-established. Bark slip specifications. Thin with stand 5. Pocket decline exists in the middle unit just north of CR 628. Clearcut this pocket plus a 33' buffer outside the pocket. Leave all snags that will not present a hazard for CR 628.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> In an e-mail 05/28/2020, Scott Lint, department forest health expert, stated that Heterobasidion Root Disease was an unlikely cause of the pocket decline.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
17 54077017-Cut	6.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	85	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with standards. Mark to retain individual red and white pine, not to exceed 10BA that will not hinder operations on slopes.</p> <p><u>Specs:</u> Roundwood to protect slopes. Raptor nest specification. 2" specification. Oak wilt specification.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of aspen, maple, oak and pine yielding a stand of at least moderate stocking.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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21	54077021-NF	2.3	3102 - Grass	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

22	54077022-NF	3.6	3102 - Grass	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

23	54077023-NF	3.0	3102 - Grass	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
24 54077024-NF	1.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
27 54077027-Cut	29.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clear cut with 3-5% area retention focusing on wet spots, areas of significant pine regeneration or large individual pine. Mark to retain individual red and white pine focusing on trees with cavities or dead tops and any extant legacy oak not to exceed 10BA. Oak wilt specification. Harvest outside of spring. Grouse log specification. Raptor nest specification. "Rabbitat" every 3 chains along the wetland edge.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of aspen, maple, oak and pine yielding a stand of at least moderate stocking.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
55 54077055-Cut	39.7	4123 - Red Oak	Sawtimber Medium	109	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clear cut with 5-10% area retention focusing on, in order of importance: 1) healthy, large crowned oak, 2) areas of significant pine regeneration or large individual pine, and 3) steep slopes. Mark to retain individual red and white pine, especially those with cavities and dead tops, as well as any extant legacy oak not to exceed 10BA. 2" specification, except in the pockets and stringers of well established aspen and maple advanced regeneration lacking an appreciable oak overstory. Oak wilt specification. Raptor nest specification.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of aspen, maple, oak and pine yielding a stand of at least moderate stocking.</p> <p><u>Other Comment:</u></p> <ul style="list-style-type: none"> *WLD wishes to retain a higher percentage of large mast producing oak, leaning toward 10% area retention. Whenever possible, ensure oak is protected by a ring of other species. *Whole tree skidding across the stand would be desirable, except for those areas lacking an appreciable oak overstory with well-established advanced aspen and maple regeneration. *If whole tree skidding is impossible, aggressively monitor the 2" specification everywhere except in the advanced aspen and maple regeneration mentioned above. Consider marking these patches to make them clear to logging operators. <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
58 54077058-Cut	16.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with 3-5% area retention which is pre-excluded along Grass Creek. Mark to retain individual red and white pine focusing on trees with cavities or dead tops not to exceed 10BA while also not hindering operations on slopes. Where they exist, mark to retain legacy oak protected by a ring of individual trees of other species. Roundwood to protect slopes. 2" specification. Oak wilt specification. Grouse log specification. Raptor nest specification.</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 Regen:</u> Any combination of aspen, maple, oak and pine yielding a stand of at least moderate stocking.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
60 54077060-Cut	10.7	4131 - Aspen, Oak	Poletimber Well	53	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Place retention in the setback from the lake, following BMPs. Mark to retain legacy oak and pine. Consider centering oak in a retention "clump" with trees of other species surrounding it. 2" specification. Grouse log specification. Raptor nest specification. Oak wilt specification. Records exist for the necessary corners.</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 Regen:</u> Any combination of aspen, maple, oak and pine yielding a stand of at least moderate stocking.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 178.4
Acreage Proposed:

Report 4 – Site Conditions

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Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
684	522	129	33
2	2	0	0
3	0	0	3
15	15	0	0
9	0	0	9
2	2	0	0
25	0	0	25
1	0	0	1
46	19	0	27
146	61	18	67
149	102	43	4
16	16	0	0
21	21	0	0
5	0	0	5
9	8	0	0
17	17	0	0
12	0	0	12
1,163	786	190	188
	68%	16%	16%

Dominant Site Conditions

	Availability for Management			Dominant Site Conditions									
	Total Acres	Acres Available	Acres Avail With Condition	5C	2A	2F	2G	2H	3D	3J	5E		
684	522	129	33	Aspen	129	8	11	1		0	2	10	
2	2	0	0	Bog									
3	0	0	3	Cedar				3					
15	15	0	0	Herbaceous Openland									
9	0	0	9	Jack Pine				9					
2	2	0	0	Low-Density Trees									
25	0	0	25	Lowland Conifers			0	25					
1	0	0	1	Lowland Spruce/Fir			0	1					
46	19	0	27	Marsh		0	0	1			26	0	
146	61	18	67	Mixed Upland Deciduous	18	5	41	0		12	8	1	
149	102	43	4	Oak	43		4						
16	16	0	0	Red Pine									
21	21	0	0	Treed Bog									
5	0	0	5	Upland Conifers			2	3			0		
9	8	0	0	Urban			0					0	
17	17	0	0	Water									
12	0	0	12	White Pine					0		12		
1,163	786	190	188	Total Forested Acres	190	13	59	43	0	12	49	12	
	68%	16%	16%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too steep: stand intercepts private property line mid slope and other areas in fact too steep.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Water quality BMPs; scenic protection around lake; neighborhood across lake.							
5	Unavailable	2F: Too steep	29	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: While perhaps 5 acres is harvestable, access from the road is too steep and the remainder of the stand is either too steep or terminates directly into wetlands.							
6	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High visibility. Maintain for visual purposes for the surrounding neighborhood.							
7	Unavailable	2F: Too steep	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Water quality BMPs; Scenic protection along the Grass Creek corridor.							
10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep slope terminates immediately into a wetland.							
12	Unavailable	5E: Long-Term Retention	1	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Long-term retention for harvest in stand 58 (to the west). Generally steep slopes terminate in Grass Creek.							
13	Unavailable	2A: Adjacent landowner denied access	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Leave area (aka retention, today) from Grassy Top Block sale, closed 01/07/96. The sale are relates to the stands surrounding it to the north and south. This was formerly broken out as its own stand but merged back into its respective regenerated stands in the YOE 2022 inventory. Survey monument located in the center of this site condition.</p>							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Roughly 100' buffer for grass creek.</p>							
16	Unavailable	2F: Too steep	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
18	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

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20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Roughly 100' buffer for grass creek.							
21	Unavailable	2F: Too steep	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Generally steep slopes terminate in Grass Creek.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too steep: private property line intersects mid-slope.							

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26	Unavailable	5E: Long-Term Retention	1	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: A good potential location for retention to meet aesthetic aims.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: spruce bog with productive fringes.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: lowland jack pine sitting on what seems to be sphagnum and muck.							
29	Unavailable	2F: Too steep	2	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments: Steep slopes terminating in marsh. Water quality BMPs. Scenic values along Grass Creek. A few good sized trees.							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2F: Too steep	0	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments: Too steep: property line intersects slope.							

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32	Unavailable	2F: Too steep	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Slopes terminate directly into Grass Creek.</p>							
33	Unavailable	2F: Too steep	4	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments: Slopes leading directly into wetland/dollar lake.</p>							
34	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Looks like the retention for the aspen harvest to the south (stand 45 in 2020).</p>							
35	Unavailable	3D: Recreational / Scenic values	7	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<p>Comments: Scenic protection along County 489. Much of the stand is additionally too steep with slopes leading to the bog. Any potentially harvestable areas are too small and too spread out for practical timber operations.</p>							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Cut with the oak stand to the south.</p>							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: In generally good health. Hold until a future YOE for age/size diversity.</p>							

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38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut in a future YOE with stand 6 and stand 59							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment for age/size diversity. Cut with stand 12 and 59.							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: In a future YOE, cut with stand 6 and 12.							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand maintained to leave a greater contiguous area of oak cover in the compartment for this planning cycle.							
43	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for harvest in the surrounding stand.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
1	4125 - Black, N. Pin Oak	Poletimber Well	28.0	48	81-110	N/A	Several different ages cored. It seems as if there were several episodes of species cuts spaced about 10 to 20 years apart. Oak is mainly poor quality. Maple is struggling. Ash has fallen out of the stand. Depending on location, the oak can be about 47, about 62 and about 82. I suspect the pine might be over 100 based on ages in other stands nearby. Some oak saplings are free to grow but most are oak grubs browsed down to about a foot. Variable tree and site quality. Perhaps moraine features with sorted outwash between?																																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>70</td> <td>Pole/Log/Sap</td> <td>7</td> <td>48</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	15	Sapling/Pole	4		Black/Red (Hybrid) Oak	70	Pole/Log/Sap	7	48	Bigtooth Aspen	10	Pole/Log	8		Red Pine	2	Log/XLog	15		White Pine	3	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Choke Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>White Ash</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Hazelnut (Spp.)</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	Sapling	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub	Choke Cherry	Low	5 - 10 feet	Sapling	White Pine	Low	Variable	Sapling	Black/Red (Hybrid) Oak	Medium	< 5 feet	Seeding	White Ash	Medium	< 5 feet	Seeding	Serviceberry (Juneberry)	Low	Variable	Tall Shrub	Ironwood	Low	< 5 feet	Seeding	Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub						
Canopy Species	% Cover	Size Class	DBH	Age																																																																												
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2	4131 - Aspen, Oak	Sawtimber Well	16.0	107	111-140	N/A	Very good quality red oak in the northwest. Aspen is tipping out. Butt rot in oak. Slopes generally don't seem terrible but private boundaries and the stand's shape would definitely complicate sale preparation. Stands far northwest could be seasonally wet.																																																																									
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3	4130 - Aspen	Sapling Well	24.0	22	1-50	N/A	Should be a pole stand next YOE. As noted in previous inventory, some regen is sparse in the NE. Seems to be filling in. Looks like browse pressure. White pine, quaking aspen saplings and poles in this area with mostly hard-browsed red maple. Red maple saplings seem more common in the north. A few odd log/x-log sized hybrid oaks scattered throughout.																																																																									
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5	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	6.7	59	171-200	N/A	5 BA points averaged 172 BA/ac. Origin: Machine planted Fall 1961 RP 3-0 800TPA																																																				
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6	4125 - Black, N. Pin Oak	Sawtimber Well	9.3	85	81-110	N/A	Perhaps 50% of the stand is not limited by slopes in one form or another. Stand either intercepts the private line mid-slope or terminates immediately in a red pine stand where it is limited. Significant slope on SW aspect perhaps 40%. Quality ain't all that great.																																																				
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8	4125 - Black, N. Pin Oak	Sawtimber Medium	33.9	85	51-80	N/A	Species cut in 2004 "Grass Lake Aspen". About half the understory recruiting to a block of red maple, the other half big tooth and quaking aspen. Probably about medium quality oak. Some free to grow oak saplings but they're rare. Pretty dang old red pine.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
10	3104 - Degraded	Nonstocked	0.8		Unspecified	Managed Opening	Just another average opening full of invasive/exotics. There are some black eyed Susans though... So that's worth half a grin.																																																								
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11	4130 - Aspen	Sapling Well	91.9	24	1-50	N/A	becoming a pole stand																																																								
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12	4199 - Other Mixed Upland Deciduous	Poletimber Well	19.6	85	81-110	N/A	Knolls are virtually all old oak, nearly 50% of canopy. Looks like a species cut from around 1980 with red maple and aspen removed. Split from the aspen stand to the south due to compositional differences. Spoils/fill in the stand's west.																																																								
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13	42110 - Planted Red Pine	Sawtimber Well	9.4	60	141-170	N/A	stand was thinned in 20053rd row thinned in "Shanty Town Red" closed 2005. Origin: Machine planted Fall 1961 RP 3-0 800TPA																																																								
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14	3303 - Mixed Low Density Trees	Nonstocked	0.6	0	Unspecified	No																																																									
15	330 - Low-Density Trees	Nonstocked	1.4	0	Unspecified	No	Opening. I don't believed it's managed as such. White pine, maple and snow from what I remember.																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4199 - Other Mixed Upland Deciduous	Sapling Well	38.1	24	Immature	N/A	Some areas are very heavily oak dominated but there are just enough other species to keep this from being a true oak stand. The stand tends drop in density toward the north, taking on a semi-open scrubby characteristic. White pine, red pine and hybrid oaks (or low quality red oak) were scattered leave trees. A narrow stringer of big tooth aspen in the far east seems to be a continuation of the aspen to the east which was cut about 10 years later. On the highest elevations, the site quality drops. A few odd spots of off-site sugar maple...
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	2			
Bigtooth Aspen		15	Sapling	3			
Black/Red (Hybrid) Oak		52	Sapling/Pole	3	24		
White Pine		5	Pole/Sapling	6			
White Oak		1	Sapling	1			
Sugar Maple		5	Sapling	1			
Red Pine		2	Log	13			

17	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.2	85	111-140	N/A	Probably species cut around 1980 under the leave all oak paradigm. The clearcut to the east shows reasonable amounts of free to grow oak, perhaps 20%, probably more on the south aspect.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Pole/Sapling	6			
Black/Red (Hybrid) Oak		39	Log/Pole	12	85		
Bigtooth Aspen		30	Pole	7	42		
Quaking Aspen		5	Pole	7			
White Pine		3	Pole/Log/Sap	7			
Red Pine		2	Log	10			
Basswood		1	Log	14			
Sub-Canopy Species		Density	Avg. Height	Size			
Black/Red (Hybrid) Oak		Low	< 5 feet	Seeding			
Choke Cherry		Medium	< 5 feet	Seeding			
Blueberry/Bilberry/Cranberry		High	< 5 feet	Tall Shrub			
White Pine		Low	5 - 10 feet	Sapling			
Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub			
Dogwood (spp.)		Low	5 - 10 feet	Tall Shrub			

18	4130 - Aspen	Sapling Well	173.7	5	Immature	N/A	small vernal pond in middle of stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		30	Sapling	1	5		
Red Maple		30	Sapling	1			
Red Oak		5	Sapling	1			
White Pine		5	Sapling	1			
Bigtooth Aspen		30	Sapling	1			
Sub-Canopy Species		Density	Avg. Height	Size			
Blackberry/Raspberry		Low	5 - 10 feet	Tall Shrub			
Spotted Knapweed		Low	Unspecified	Non-Wood			
Serviceberry (Juneberry)		Low	5 - 10 feet	Sapling			
Sweet Fern		Low	5 - 10 feet	Tall Shrub			
Witch Hazel		Low	5 - 10 feet	Tall Shrub			

19	4125 - Black, N. Pin Oak	Sawtimber Well	38.3	84	81-110	N/A	Small crowned low-medium quality oak but there are a few good logs. If this responds as the stand did to the north a fair amount of oak should recruit in the next stand, although not as much as currently. Some of the ridgetops contained ash seedlings and very poor quality log-sized basswood. The northwest lobe features a solid clone of big tooth aspen.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling/Pole	4			
Black/Red (Hybrid) Oak		65	Pole/Log	9	84		
Bigtooth Aspen		10	Pole/Log	9			
Quaking Aspen		2	Log/Pole	10			
Basswood		2	Log	11			
Red Pine		4	Log	12			
Sugar Maple		2	Pole	6			
White Pine		5	Pole/Log	8			
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Low	< 5 feet	Sapling			
Witch Hazel		Medium	5 - 10 feet	Tall Shrub			
White Ash		Trace	< 5 feet	Seeding			
Blueberry/Bilberry/Cranberry		Medium	< 5 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
20	4130 - Aspen	Poletimber Well	32.8	48	111-140	N/A	Oak are likely 80-100 years old judging by those in neighboring stands. There's a strange inclusion of semi-open hybrid oak with a dense understory of autumn olive in between the two grass openings in the stand's south. Some of the big tooth seem to have an older age, about 75 and are approaching 7 sticks and appear to remain in good health.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole	5		Red Maple		
Black/Red (Hybrid) Oak		10	Log/XLog	14		White Pine		
Quaking Aspen		15	Pole/Log	8	48	Blueberry/Bilberry/Cranberry		
Bigtooth Aspen		55	Pole/Log	9	48	Witch Hazel		
White Pine		7	Pole/Sap/Log	7		Ironwood		
Red Pine		2	Pole	7		Dogwood (spp.)		
Balsam Fir		1	Pole	5		Choke Cherry		
						Autumn Olive		
21	3102 - Grass	Nonstocked	2.3		Unspecified	Managed Opening		
Sub-Canopy Species		Density	Avg. Height	Size				
Mixes Sedges/Grasses		Full	Unspecified	Non-Wood				
Sweet Fern		Medium	< 5 feet	Tall Shrub				
Spotted Knapweed		Medium	Unspecified	Non-Wood				
22	3102 - Grass	Nonstocked	3.6		Unspecified	Managed Opening		
Sub-Canopy Species		Density	Avg. Height	Size				
Autumn Olive		Low	5 - 10 feet	Tall Shrub				
Sweet Fern		Medium	< 5 feet	Tall Shrub				
Mixes Sedges/Grasses		Full	Unspecified	Non-Wood				
Spotted Knapweed		Medium	Unspecified	Non-Wood				
23	3102 - Grass	Nonstocked	3.0		Unspecified	Managed Opening		
Sub-Canopy Species		Density	Avg. Height	Size				
Mixes Sedges/Grasses		High	Unspecified	Non-Wood				
Sweet Fern		Medium	< 5 feet	Tall Shrub				
Spotted Knapweed		Medium	Unspecified	Non-Wood				
24	3102 - Grass	Nonstocked	1.5		Unspecified	Managed Opening		
Sub-Canopy Species		Density	Avg. Height	Size				
Mixes Sedges/Grasses		Full	Unspecified	Non-Wood				
Spotted Knapweed		Medium	Unspecified	Non-Wood				
Sweet Fern		Medium	< 5 feet	Tall Shrub				
25	623 - Emergent Wetland	Nonstocked	10.8		Unspecified	No	Grass Creek corridor. Many beaver dams.	
Sub-Canopy Species		Density	Avg. Height	Size				
Alder		Low	5 - 10 feet	Tall Shrub				
Bulrush		Low	Unspecified	Non-Wood				
Cattail spp.		Low	Unspecified	Non-Wood				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 17.3 83 81-110 N/A

Facing Grass Creek, a fairly dense understory of white pine and balsam fir chiefly but also with a few red pine and spruce individuals. More of a hardwood characteristic on the east face of the ridge. Most of the stand is too steep to harvest or slopes terminate directly in a bog or in Grass Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	6		White Pine	Medium	Variable	Sapling
Red Oak	35	Log/Pole/XLog	12	83	Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	15	Pole/Log	9		White Spruce	Trace	Variable	Sapling
White Pine	12	Log/Pole/XLog	12		Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Red Pine	20	Log/XLog	14	94	Red Pine	Low	Variable	Sapling
Paper Birch	1	Pole	6		Ironwood	Medium	Variable	Tall Shrub

27 4139 - Aspen, Mixed Deciduous Poletimber Well 29.6 48 81-110 N/A

Periodically there are lowland characteristics, especially as one approaches Grass Creek. Brushy understory with hazels and saplings. Some of the larger quaking aspen are showing konk.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	6		White Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Sapling/Pole	4		Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Quaking Aspen	32	Pole/Log	9	48	Choke Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	20	Pole/Log	8	48	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	10	Log/Pole	10		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Pine	2	Pole	6		Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	3	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Balsam Poplar	2	Pole	7		Balsam Fir	Medium	Variable	Sapling
Paper Birch	1	Pole	5		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub

28 4131 - Aspen, Oak Sawtimber Well 53.3 83 81-110 N/A

mix of oak and aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7	81	White Pine	Medium	5 - 10 feet	Sapling
Red Oak	40	Log/Pole	11	83	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	30	Log/Pole	10	83	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Pine	2	Log/XLog	16	122	Choke Cherry	Low	5 - 10 feet	Sapling
White Pine	2	XLog/Log	20		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Sugar Maple	1	Pole/Sapling	6		Wintergreen	High	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Log/Pole	11		Ironwood	Medium	< 5 feet	Seeding
					Blueberry/Bilberry/Cranberry	Medium	5 - 10 feet	Tall Shrub

29 6122 - Black Spruce Poletimber Medium 1.3 87 51-80 N/A

Productive periphery becomes increasingly poor to the center. Easily too wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	80	Pole/Sapling	6	87	Meadowsweet	Medium	< 5 feet	Tall Shrub
Red Pine	15	Log/Pole/XLog	14		Leatherleaf	High	< 5 feet	Tall Shrub
Paper Birch	5	Pole	7		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30	4130 - Aspen	Sawtimber Well	8.8	79	111-140	N/A	Kettle depression features more quaking aspen, red maple and a good amount of white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		White Pine	Medium	Variable	Sapling
Red Oak	15	Log/Pole	12		Red Pine	Low	Variable	Sapling
Bigtooth Aspen	42	Log/Pole	12	79	Dogwood (spp.)	Medium	5 - 10 feet	Tall Shrub
White Pine	8	Log/Pole	12		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	20	Log/Pole	12		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Red Pine	5	Log/XLog	16					

31	42200 - Natural White Pine	Sawtimber Well	11.9	100	81-110	N/A	Probable repeated disturbances along Grass Creek likely caused a mix of ages. White and red pine showed ages of 48, 65, and 100. The dominant trees are of the older cohort. This multi-part stand is often situated on slopes leading to Grass Creek.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Pole/Sapling	5		Blueberry/Bilberry/Cranberry	Full	< 5 feet	Tall Shrub
Bigtooth Aspen	5	Log/Pole	11		Red Pine	Low	< 5 feet	Seeding
White Pine	60	Log/Pole/XLog	14	100	White Pine	Medium	Variable	Sapling
Red Pine	17	Log/Pole/XLog	14	65	Black/Red (Hybrid) Oak	Trace	5 - 10 feet	Sapling
Jack Pine	1	Pole	6		Little Bluestem	High	Unspecified	Non-Wood
Black Spruce	1	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Tamarack	1	Sapling/Pole	4		Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole	6		Red Maple	Low	Variable	Sapling
Quaking Aspen	5	Pole	8		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub

32	500 - Water	Nonstocked	0.1	0	Unspecified	No	open water
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33	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	15.4	101	51-80	N/A	A productive perimeter surrounds increasingly non-productive interior. Standing water beneath ice. Easily too wet. An alder swale connects this to the Grass Creek corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Pole/Log/Sap	5		Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	30	Sapling/Pole	4		Black Spruce	Medium	< 5 feet	Seeding
Northern White Cedar	30	Pole/Sap/Log	5	101	Balsam Fir	Low	Variable	Sapling
White Pine	1	Pole/Log/Sap	5		Sphagnum Moss	Full	Unspecified	Non-Wood
Tamarack	37	Pole/Sapling	5	101	Leatherleaf	High	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34	4130 - Aspen	Poletimber Well	50.1	36	Unspecified	N/A	Quality and productivity highly variable according to land position. Beaver damage in the stand's Southeast. Cutting records indicate this stand originated with the "Anyone Can Block", complete 10/25/1984. A portion of the sale extended into the next compartment just south of the stream.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		13	Sapling/Pole	4		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		30	Pole/Sapling	6	36	Blueberry/Bilberry/Cranberry		High	< 5 feet	Tall Shrub	
Balsam Fir		12	Sapling/Pole	4		White Pine		Trace	< 5 feet	Seeding	
Quaking Aspen		30	Pole/Sapling	5	36						
White Pine		5	Pole/Sapling	6							
Black/Red (Hybrid) Oak		8	Pole/Log/XLog	8							
Paper Birch		1	Sapling/Pole	3							
Red Pine		1	Log	14							

35	623 - Emergent Wetland	Nonstocked	34.7		Unspecified	No	Grass Creek corridor
Sub-Canopy Species		Density	Avg. Height	Size			
Cattail spp.		Low	Unspecified	Non-Wood			
Mixes Sedges/Grasses		High	Unspecified	Non-Wood			
Willow spp.		Low	5 - 10 feet	Tall Shrub			
Alder		Medium	5 - 10 feet	Tall Shrub			
Steeplebush		Medium	< 5 feet	Tall Shrub			

36	429 - Mixed Upland Conifers	Sawtimber Well	5.4	93	111-140	N/A	Seems similar to stand 31. Slopes leading to Grass Creek.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	6	47	Balsam Fir		Medium	Variable	Sapling
Balsam Fir		8	Pole	6		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		1	Pole	7		Dogwood (spp.)		Low	5 - 10 feet	Tall Shrub
White Pine		30	Log/Pole/XLog	17	93	Sedges		Medium	5 - 10 feet	Non-Wood
Red Pine		20	Log/XLog	15	93	Ironwood		Low	5 - 10 feet	Tall Shrub
Jack Pine		2	Pole	8		White Pine		Medium	Variable	Sapling
Paper Birch		2	Pole	7		Red Pine		Trace	Variable	Sapling
Black/Red (Hybrid) Oak		15	Log/XLog	14						
Bigtooth Aspen		8	Pole	8						
Balsam Poplar		1	Pole	8						
Quaking Aspen		3	Log	13						

37	122 - Road/Parking Lot	Nonstocked	3.2	0	Unspecified	No	Sorenson Road. Ground cover: gravel and native material.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
38	6225 - Bog	Nonstocked	2.1		Unspecified	No																																						
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Leatherleaf	Full	< 5 feet	Tall Shrub																																									
39	4130 - Aspen	Sapling Well	37.4	15	Immature	N/A	More pine and oak on the knobs. Numerous white pine seedlings and saplings in the stand's north.																																					
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40	4130 - Aspen	Poletimber Well	4.8	43	81-110	N/A	A good number of large saw sized hybrid oak left from previous stand. A little more fir than other stands nearby. Some older big tooth aspen coexisting with individual legacy white pine in the south.																																					
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41	4130 - Aspen	Sapling Well	33.2	28	1-50	N/A	A few scattered residual oak and pine from the previous stand.																																					
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42	122 - Road/Parking Lot	Nonstocked	0.3	0	Unspecified	No	Groundcover: Gravel and native material. CR 628.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
43	6224 - Treed Bog	Nonstocked	10.1		Unspecified	No	Aesthetically pleasing.																																																																										
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44	4130 - Aspen	Poletimber Well	11.6	48	81-110	N/A	Split the aspen heavy slopes out the oak stand to the south. Private property intersects some of the slopes, making these portions unharvestable.																																																																										
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45	4130 - Aspen	Sapling Well	35.1	14	Immature	N/A	Very scattered residual of oak and pine from the previous stand. It looks like retention was in the NW corner. A small grove of white pine in the NE that's about 50 years old. South of this, a moderate open fringe shows heavy browse. PU2 in "Between Lakes" sale (closed 2005).																																																																										
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46	4130 - Aspen	Poletimber Well	25.9	46	111-140	N/A	A couple nice clones of Big Tooth Aspen in the west and north. In the south along the trail, this stand is moderately crummy. On the east and south sides of the bog, there's a reasonable amount of white pine and some jack pine. Since just about everything else is cut here, I'd wait a bit more...																																																																										
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47	4136 - Aspen, Mixed Conifer	Sapling Well	8.9	24	1-50	N/A	Possible trespass in SW corner. Big food plot and potentially a shed. Find the corner. Otherwise it looks like this was a leave all conifer cut.																																																																					
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48	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	0.3	92	81-110	N/A	Canoe necessary.																																																																					
49	6126 - Lowland Jack Pine	Sapling Medium	8.9	52	1-50	N/A	A ring of lowland brush surrounds a leatherleaf basin growing on sphagnum. Reasonably productive given the site but easily too wet. Feels mucky. One of those weird places where jack pine thinks it's black spruce.																																																																					
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50	6120 - Lowland Cedar	Poletimber Well	1.2	138	81-110	N/A	A drainage leading to Grass Creek. Too wet. Oldest ages line up with cedar and oldest red pine elsewhere.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	4130 - Aspen	Sapling Well	5.5	16	Immature	N/A	<p>The grass looks like some kind of wild rye (Virginia or Canada). I don't believe this is quack grass. Might've come from a food plot. The stand is primarily a ridge. The top of the ridge contains more drought tolerant species like hybrid oak and jack pine. Near the lowland jack pine, there's quite a bit of residual from the previous stand.</p> <p>Origin: Between Jack, closed 2004.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		53	Sapling	2	16	Rye (annual)		Low	Unspecified	Non-Wood	
Bigtooth Aspen		20	Sapling	2	16						
White Pine		2	Sapling	1							
Jack Pine		2	Sapling	1	16						
Black/Red (Hybrid) Oak		10	Sapling	1							
Red Maple		10	Sapling	1							
Balsam Fir		3	Sapling	1							

53	4131 - Aspen, Oak	Sawtimber Well	5.8	85	81-110	N/A	<p>Buffer for lake. Also too steep and serves aesthetic considerations. A flatter area looks opportunistically thinned.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		35	Log/Pole	11		Red Maple		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		45	Log/Pole	10	85	White Pine		Low	< 5 feet	Seeding	
Red Pine		4	Log	12		Blueberry/Bilberry/Cranberry		High	< 5 feet	Tall Shrub	
White Pine		5	Log/XLog	16							
Quaking Aspen		10	Log/Pole	11							
Sugar Maple		1	Pole	8							

54	6127 - Lowland Pine	Sawtimber Well	2.9	90	141-170	N/A	<p>Grove of fine pine sits on sphagnum and wintergreen. The south and perhaps west sides of this grove are either a spring, seep or an outlet from the bog to the north. Draining southward the stand becomes an alder swale.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole	6		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
White Pine		35	Log/XLog	15	90	Red Maple		High	Variable	Sapling	
Red Pine		30	Log/XLog	17	90	Balsam Fir		Low	Variable	Sapling	
Quaking Aspen		8	Pole/Sapling	6	46	White Pine		Medium	Variable	Sapling	
Jack Pine		5	Log/Pole	10		Wintergreen		Full	< 5 feet	Tall Shrub	
Paper Birch		2	Pole	7		Leatherleaf		Medium	< 5 feet	Tall Shrub	
Black/Red (Hybrid) Oak		5	Pole	8		Michigan Holly		Trace	5 - 10 feet	Tall Shrub	

55	4123 - Red Oak	Sawtimber Medium	39.7	109	51-80	N/A	<p>15 points yields approximate 58BA. Estimate perhaps 15% oak show signs of butt rot. Variable quality, but mostly middling. The stand's current condition is a result of a species thinning completed in 2005 ("Between Lakes" sale).</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		90	Log/Pole/XLog	12	109	Red Maple		High	Variable	Sapling	
Red Pine		7	Log/XLog	16		Bigtooth Aspen		High	Variable	Sapling	
White Pine		3	Log/Pole/XLog	11		White Pine		Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 4.7 98 81-110 N/A Best growth in this stand occurred 90-50 years ago. Area of high visibility. Suggest leaving alone for aesthetic considerations.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		White Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	45	Log/XLog/Pole	12	98	Blueberry/Bilberry/Cranberry	Full	< 5 feet	Tall Shrub
Bigtooth Aspen	12	Pole/Log	9		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
White Pine	15	Pole	9		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	10	Log/Pole/XLog	12	98	Red Maple	Medium	Variable	Sapling
Quaking Aspen	5	Pole/Log	9		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Jack Pine	3	Pole/Sap/Log	7					

57 6224 - Treed Bog Nonstocked 2.7 Unspecified No Leatherleaf lined rim of Gassel Lake. Many of the trees dead/dying.

Sub-Canopy Species	Density	Avg. Height	Size
Bulrush	Medium	Unspecified	Non-Wood
Leatherleaf	Medium	< 5 feet	Tall Shrub
Meadowsweet	Medium	< 5 feet	Tall Shrub
Tamarack	Trace	>20 feet	Pole
Black Spruce	Trace	>20 feet	Pole
White Pine	Low	>20 feet	Pole

58 4199 - Other Mixed Upland Deciduous Sawtimber Well 24.1 83 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
Red Oak	50	Log/Pole	10	83	Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Bigtooth Aspen	20	Log/Pole	11		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Red Pine	5	Log	14		Red Oak	Low	< 5 feet	Sapling
White Pine	3	Pole/Log/Sap	6					
Sugar Maple	1	Pole	6					
Paper Birch	1	Pole	6					

59 4131 - Aspen, Oak Poletimber Well 8.6 40 81-110 N/A Younger aspen with 80-100 year old oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	3	40	Dogwood (spp.)	Medium	5 - 10 feet	Tall Shrub
Red Oak	20	Log/Pole	10	83	Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Bigtooth Aspen	60	Pole	7	40	Choke Cherry	Medium	5 - 10 feet	Sapling
Quaking Aspen	10	Pole	6		Beech	Trace	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
66	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	29.2	68	Unspecified	N/A	Very steep slopes terminate into either a kettle bog or a cedar swamp. Additionally slopes confound entry from the road. Bald eagle nest on private land just to the east (seen and heard birds). South faces feature more oak. North faces tend to have more aspen and pine. Only a narrow area would be harvestable if access were even possible.																																														
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67	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	6.7	116	1-50	N/A	Non-productive bog.																																														
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