



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54065

Entry Year 2022

Acreage: 1,973

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 2020-05-19

Stand Examiner: Colin Zaremba

Legal Description:

T32N, R02E, Sec. 23, 26, 34 & 35

Identified Planning Goals:

Maintain aspen and oak.

Soil and topography:

Terrain varies from moderately rolling to rolling hills to somewhat steep in some areas. Mostly aspen and oak with some jack pine. Northern most part of the compartment has a cedar/ lowland conifer swamp. PARVHa/PArVVb, PVCd, AFO.

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

North portion is mostly state ownership with an 80-acre parcel of private hunting land in the middle. To the southwest is Clear Lake state park and the residential area surrounding the lake. to the east is 240 acres of private land with multiple ownerships from the Atlanta Rod and Gun Club and some fulltime residences and vacation cabins. Some Atrim gas activity to the southeast.

Unique Natural Features:

Possible Ram's Head Lady's-Slipper habitat in southwest corner of compartment.

Archeological, Historical, and Cultural Features:

Archeological hit near Clear Lake

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Clear lake is a cold water lake.

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 and elk. 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 with consideration of adjacent compartments. Compartment is mostly aspen, oak, and some hardwoods. Several small openings and a cedar swamp to the north. Mast trees are common in the oak and hardwoods stands and provide a good food source for wild turkey, ruffed grouse, squirrels, and white tailed deer. The mixture of forest types provides habitat for several bird species including pileated woodpecker, barred owl, screech owl, red-eyed vireo, and black-throated green warbler. Cedar swamp to the north gives plenty of cover for deer in the winter and habitat for many bird species such as Blackburnian warbler. Swamp also has conditions to support many amphibian species.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits do not exist in the area. There appears to be some sand & gravel potential in the compartment, but there are significant amounts of clay in places. The southern half of the compartment has been drilled and is producing gas from the Antrim Shale. There may be potential for additional Antrim wells within the compartment, but the Antrim Shale is thinning and becoming shallower to the north, reducing the potential for successful wells. Furthermore, at current low gas prices, additional development is unlikely for the foreseeable future, as new Antrim wells are not economical. State-owned mineral rights in the southern half of the compartment are currently leased and held by production. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

Good access throughout the compartment.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

Multiple trail types run through this compartment including: ORV/MCCCT trails, ORV routes/snowmobile trails, and the High Country Pathway. Clear Lake State Park is directly adjacent to the compartment.

Fire Protection:

Adequate.

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

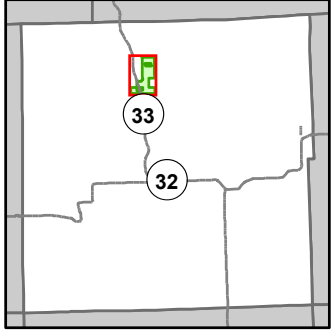
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

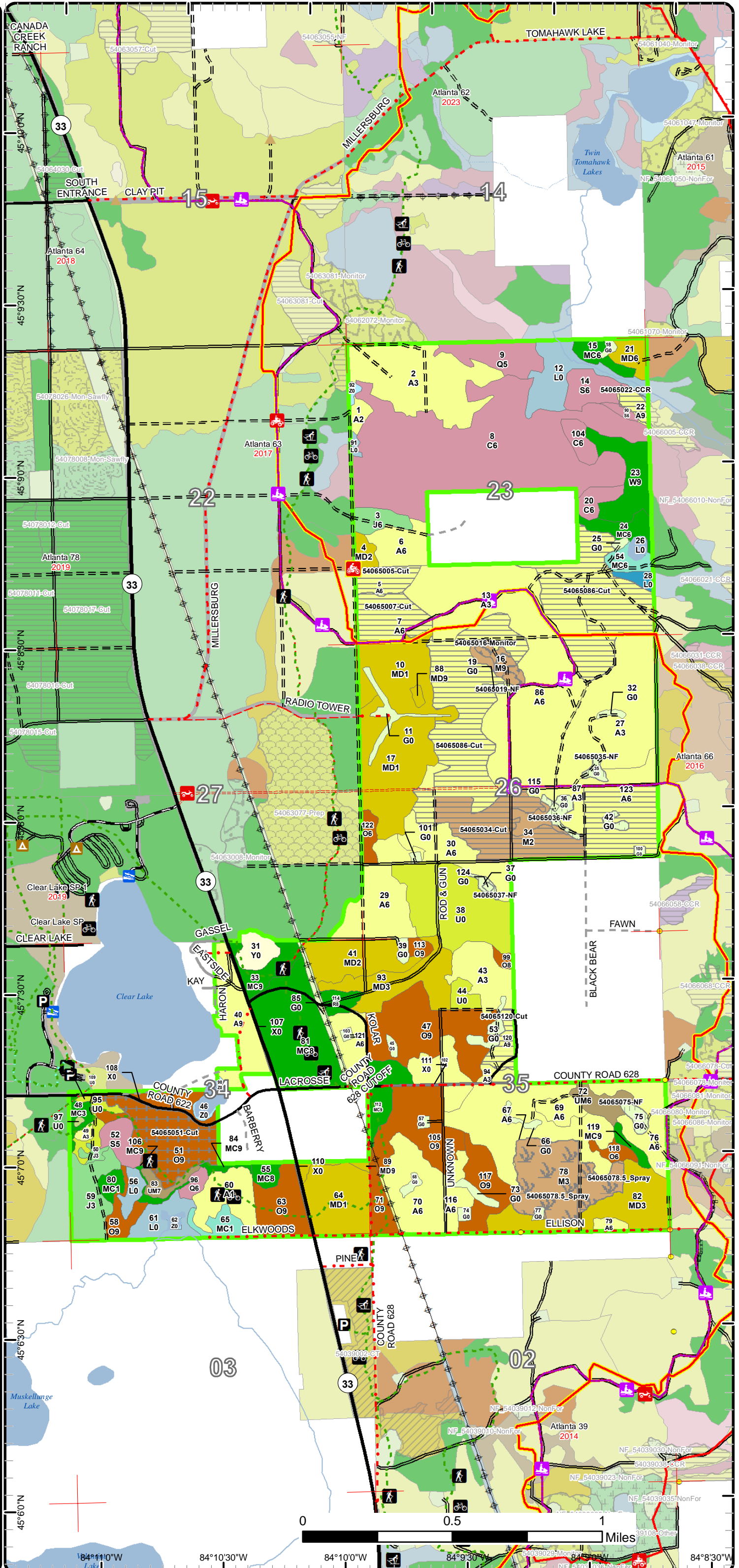
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 65
 T32N, R02E, Sec. 23, 26, 27, 34, 35
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2022
 Acres: 1,973 GIS Calculated
 Examiner: Colin Zarembo
 Map Revised: 10/22/2020
 Map Phase: Post-Review

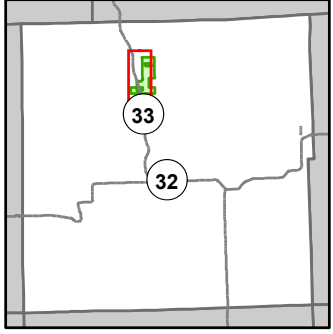


- Miris Corners
- Survey Grade Corners
- Counties
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- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
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- 🏂 Ski Trails
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- Intermittent Pond
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- Lakes and Rivers
- 🚽 Toilet
- 🚤 Boating Access Site
- 🏕️ Campground
- P Parking Lot
- Pipeline
- Powerline
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil

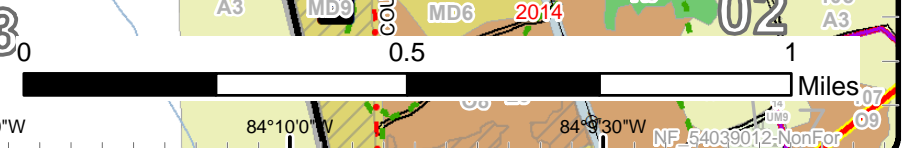
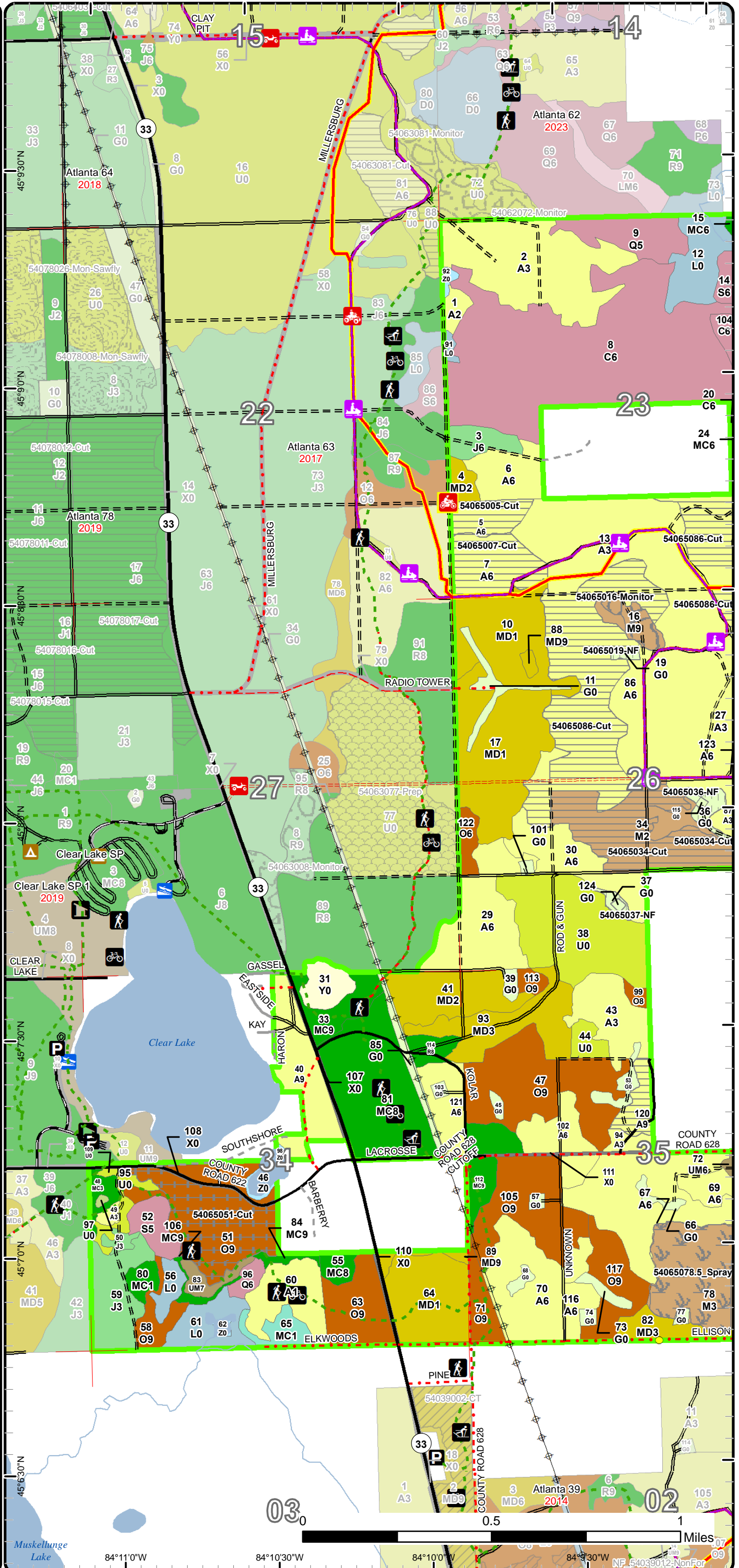


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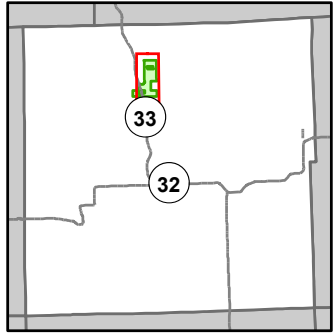


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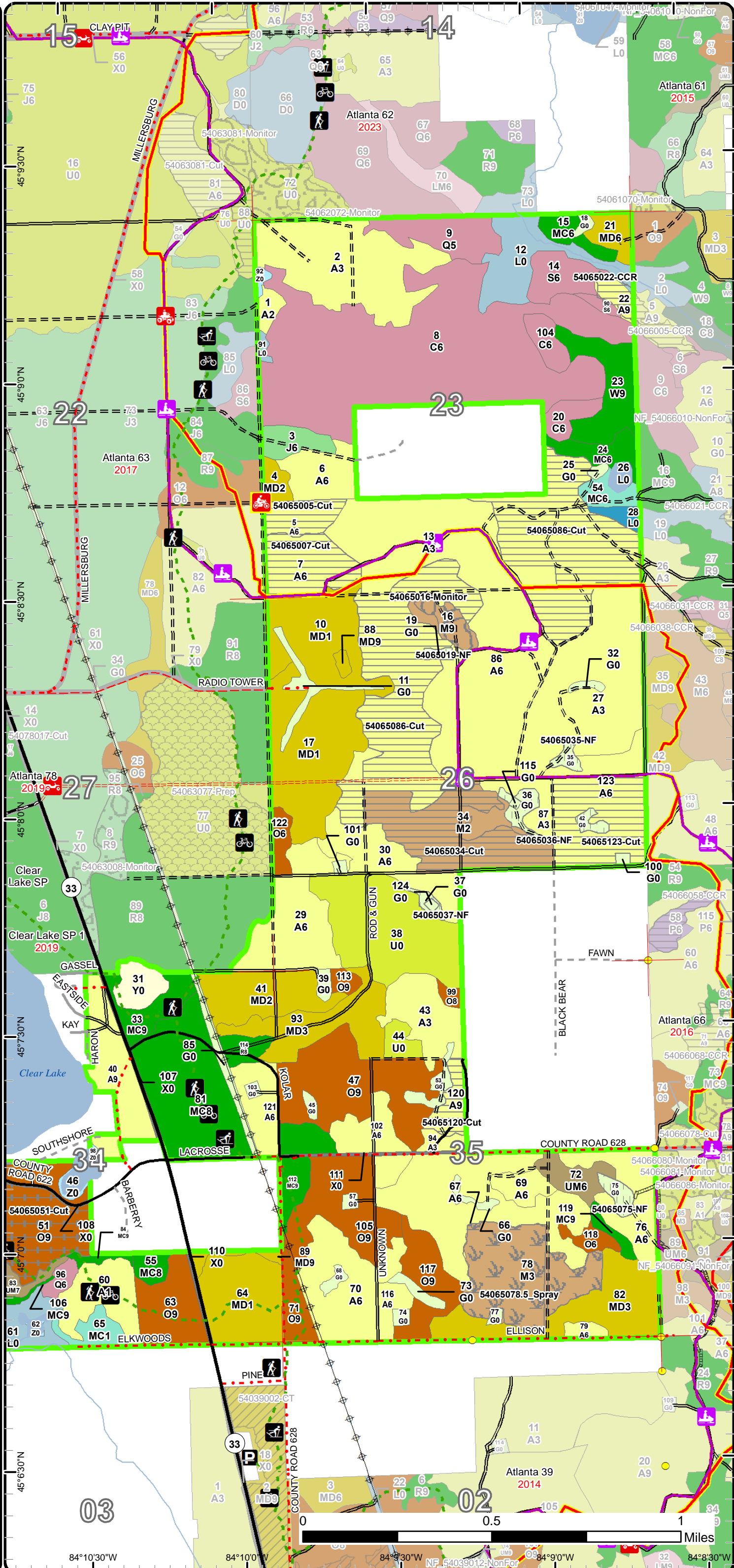


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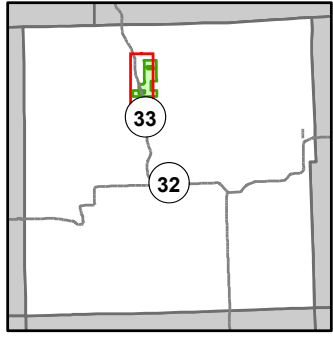


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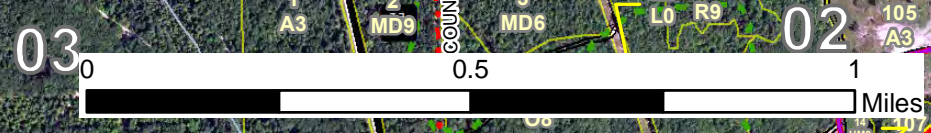
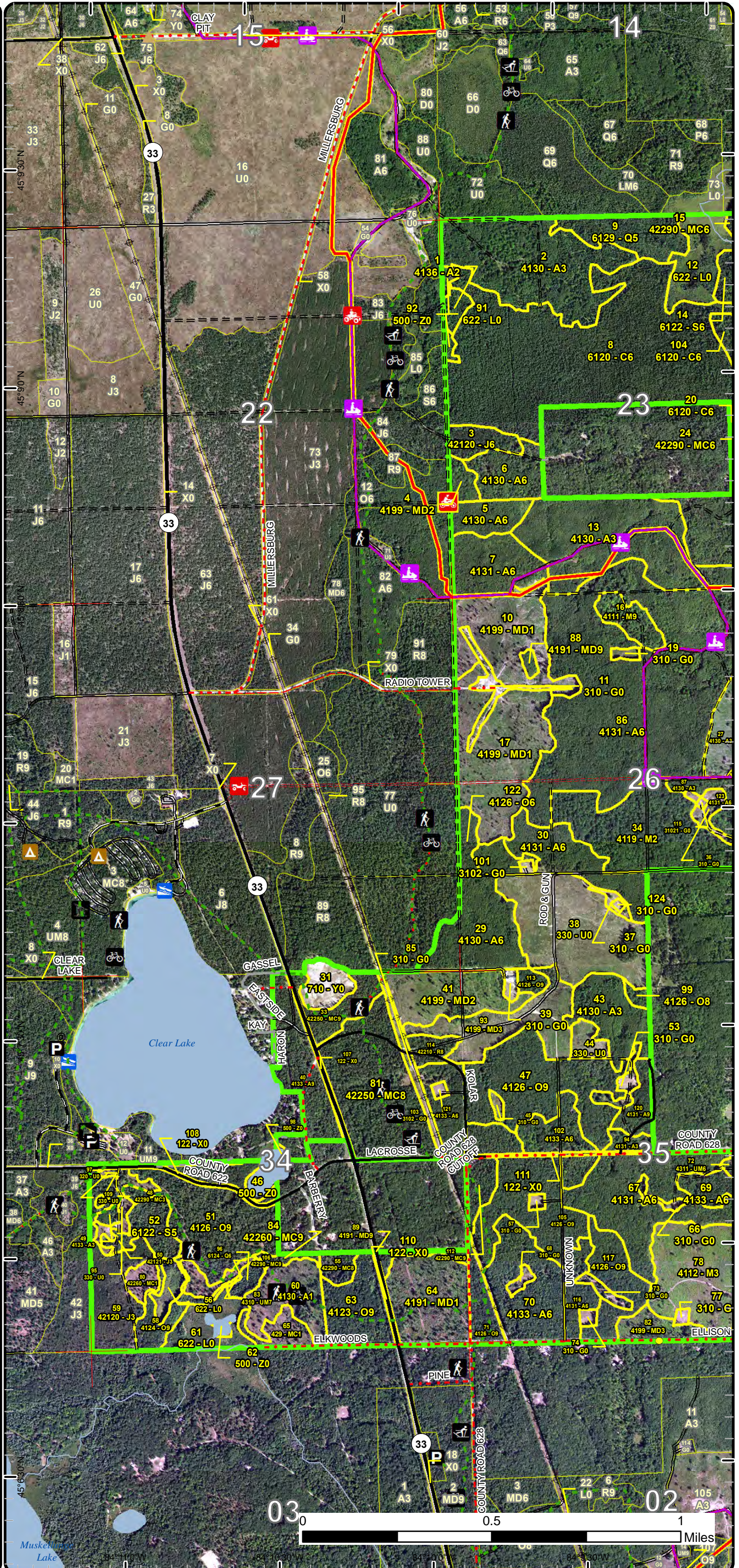


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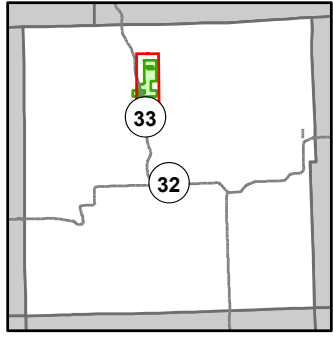


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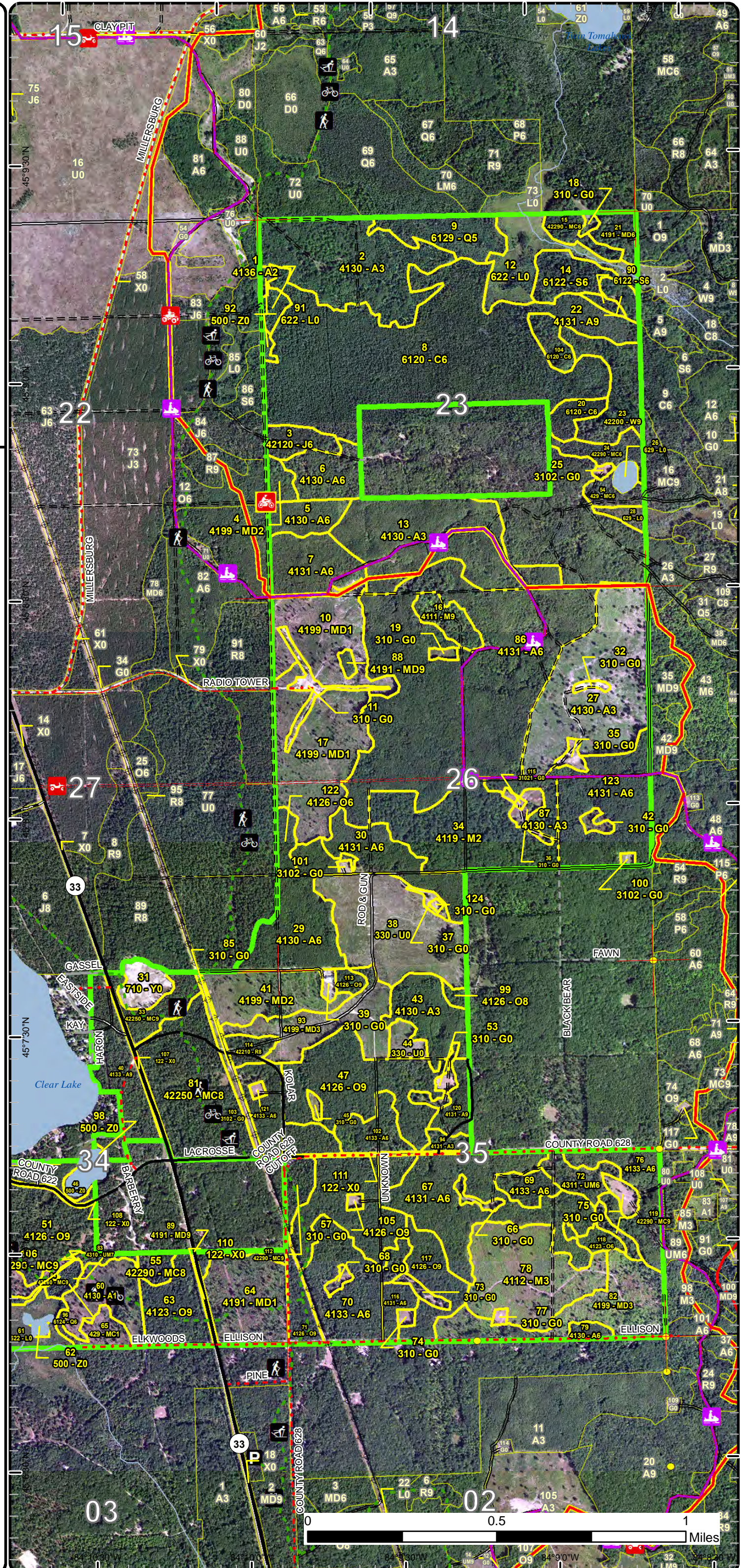


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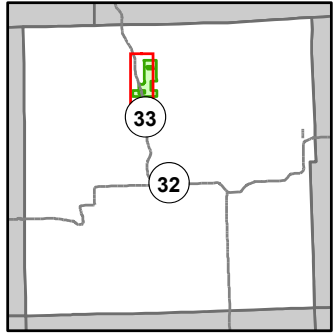


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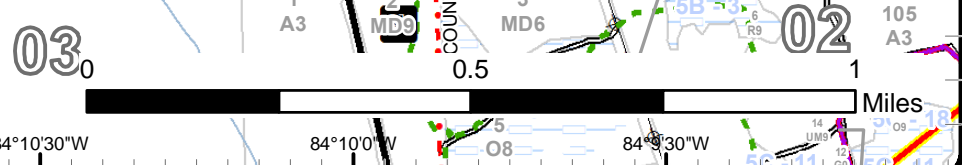
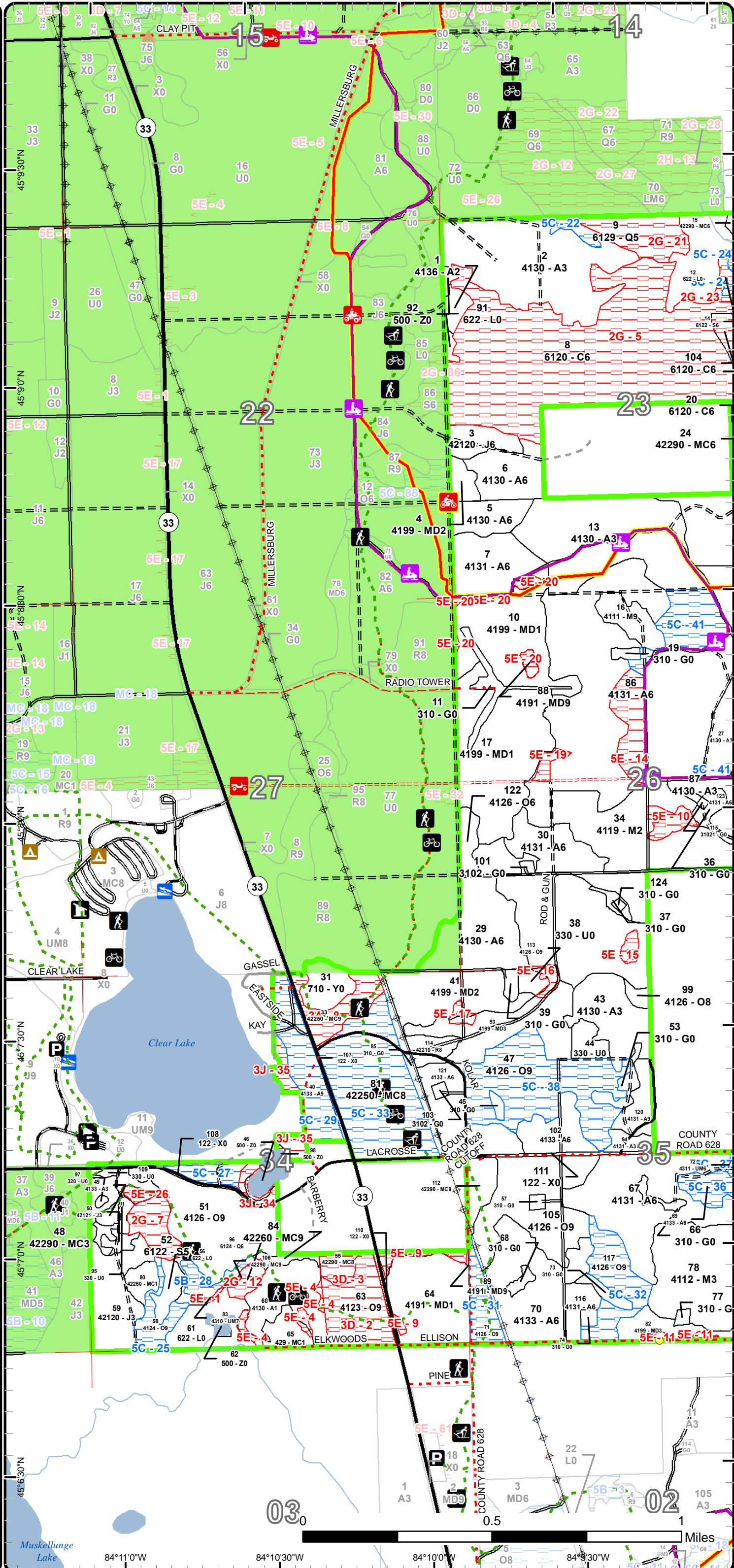


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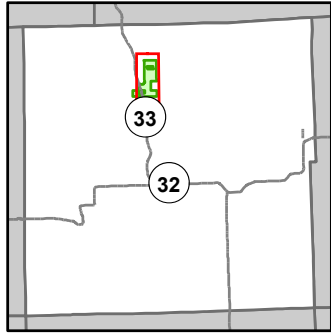


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes

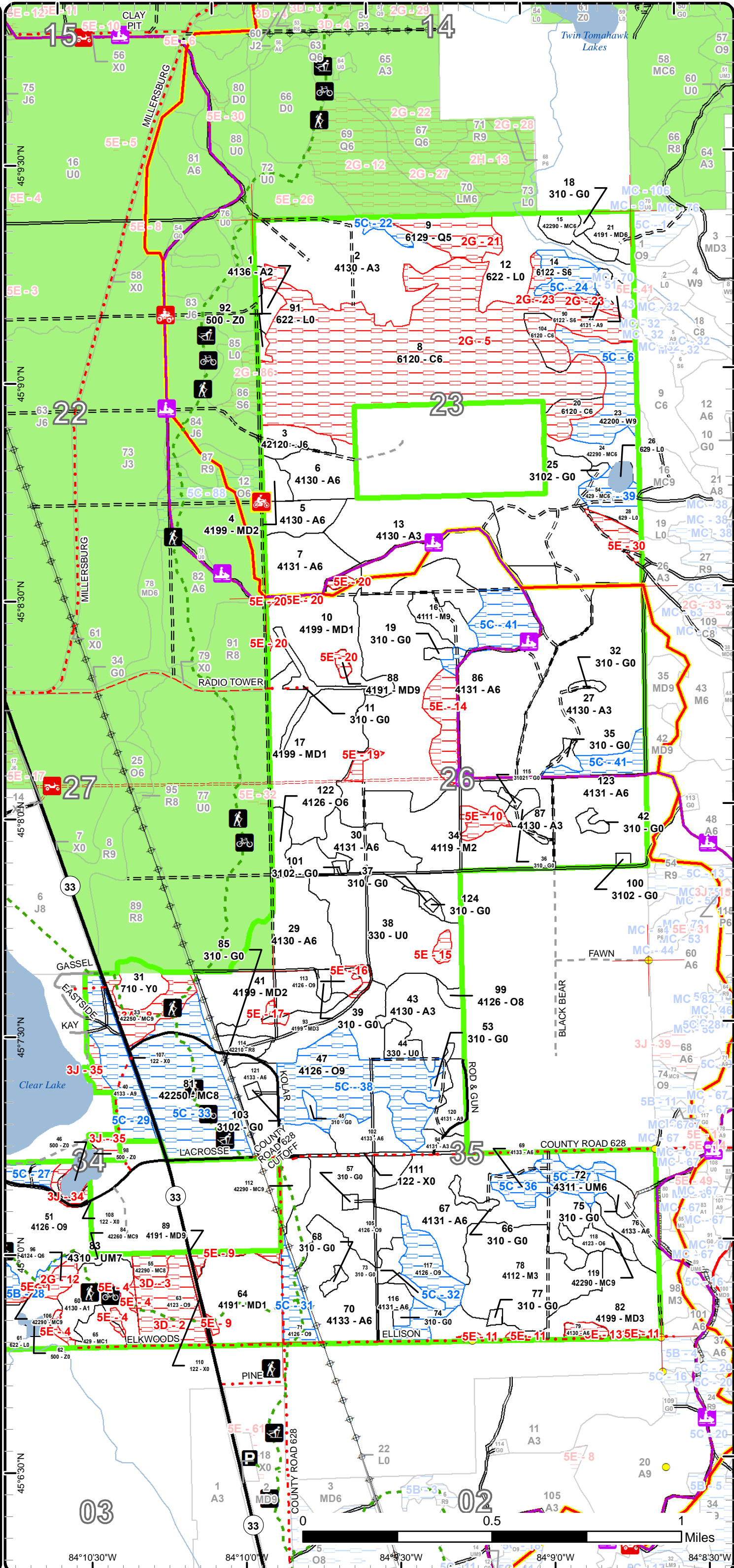


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03

02

01

Miles

84°10'30"W 84°10'0"W 84°9'30"W 84°9'0"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	89	12	89	96	220	283	28	5	0	0	0	0	0	0	0	0	0	821
Cedar	0	0	0	0	0	0	0	0	0	174	0	0	0	0	0	7	0	0	181
Herbaceous Openland	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Jack Pine	0	0	0	24	0	8	0	0	0	0	0	0	0	0	0	0	0	0	32
Low-Density Trees	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Conifers	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22
Lowland Shrub	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	15	9	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	211	0	0	0	0	0	0	8	0	5	0	0	0	0	0	0	0	224
Natural Mixed Pines	0	4	0	5	0	9	0	3	64	23	5	2	0	0	0	0	0	0	115
Northern Hardwood	0	96	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	105
Oak	0	0	0	0	0	43	0	0	0	8	118	30	0	0	0	0	0	0	199
Red Pine	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	8	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	14
Upland Mixed Forest	0	0	0	0	0	0	0	9	0	0	5	0	0	0	0	0	0	0	14
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	22
Total	193	408	12	118	96	280	289	46	77	242	142	41	0	22	0	7	0	0	1971



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 65

Total Compartment Acres: 1,973

Commercial Harvest - 308
 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	227	0	0	0	0	0	0	0	0	227
Northern Hardwood	44	0	0	0	0	0	0	0	0	44
Oak	0	0	0	0	0	37	0	0	0	37
Total	271	0	0	0	0	37	0	0	0	308

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	308	0	0	0	44	7	0	16	0	376
Next Step	0	177	89	0	44	353	0	0	0	663
Total	308	177	89	0	89	360	0	16	0	1039



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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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Approved Treatments:

5	54065005-Cut	10.9	4130 - Aspen	Poletimber Well	54	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Place retention on the west end around white oak pockets with healthy crowns. Use grouse log spec</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> Medium to high stocking of aspen, red maple, and oak.</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>											
7	54065007-Cut	22.2	4131 - Aspen, Oak	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> 3-10% retention focused around the snowmobile trail to the south to mitigate visual concerns. Use grouse log spec. Use spec to protect snowmobile trail.</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, or pine resulting in medium to high stocking.</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>											
16	54065016-Monitor	7.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	104	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Re-check regen in 5 years. Most of the current regen is striped maple. More northern hardwood species need to be present in the understory.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Medium to high stocking of oak, sugar maple, and pine. Some beech, ironwood, and striped maple is acceptable as long as desirable species are present.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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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
19	54065019-NF	1.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening will 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>Proposed Start Date: 10/1 /2021</p>											
22	54065022-CCR	4.9	4131 - Aspen, Oak	Sawtimber Well	79		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Cut with stand 5, compartment 66.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any combination of aspen, red maple, red pine, oak, aspen, spruce, fir, jack pine, or white pine resulting in a medium or well stocked stand.</p> <p><u>Other Comment:</u> Treatment approved at Compartment Review held Oct 28, 2014. Use current, standard trail specs for safety and infrastructure protection.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2015</p>											
34	54065034-Cut	44.3	4119 - Mixed Northern Hardwoods	Sapling Medium	3	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest the residual oak. Oak is in poor health and should be removed to make room for planting operations. Some of the retention has been added to the treatment to square up the shape. 3-10% of the stand is still designated as retention. Use snowmobile trail spec.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; SitePrep, Roller Chopping</p> <p><u>Acceptable Regen:</u> Planted red pine that is mostly unsuppressed by deciduous competition.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2020</p>											
35	54065035-NF	2.4	310 - Herbaceous Openland	Nonstocked			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>Proposed Start Date: 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
36 54065036-NF	4.6	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<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 <u>Next Step Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2021										
37 54065037-NF	1.7	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<u>Prescription Specs:</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices <u>Next Step Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2021										
42 54065042-NF	2.1	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	330 - Low-Density Trees		No
<u>Prescription Specs:</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices <u>Next Step Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2021										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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51	54065051-Cut	37.4	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Clearcut to release the dense oak regeneration.
Specs: Add spec to protect as much advanced regen as possible. Protect trail markers/painted trees. Flag the pathway and maintain a slash free zone around it. Do not allow equipment to cross or drive on pathway. Only harvest trees with a merchantable stick. Shortwood only. Cut during winter or when oak is dormant to promote a healthy response to the cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, white pine, red pine, aspen, red maple, balsam fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

75	54065075-NF	3.7	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

78	54065078.5_S pray	44.4	4112 - Maple, Beech, Cherry Association	Sapling Well	6	Immature	Pesticide	ERROR	42110 - Planted Red Pine	Even-Aged	No
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Prescription Restart the planting process. Start with a herbicide application.
Specs:

Next Step SitePrep, Trenching; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; Monitoring, Artificial Regen(1yr); Planting, Initial Plant
Treatments:

Acceptable -fully stocked artificial RP with minor deciduous associates
Regen: (the long-term objective for this area is to convert the artificial RP cover type back to O2-O3)

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
86 54065086-Cut	144.8	4131 - Aspen, Oak	Poletimber Well	51	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with 3-10% retention. Use grouse log spec. Protect snowmobile trail</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> Fully stocked stand of aspen, oak, pine, and maple. If large areas come back to mostly red maple consider planting red pine there.</p> <p><u>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>										
120 54065120-Cut	8.2	4131 - Aspen, Oak	Sawtimber Well	54	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Do not cut the few white and red pine. No retention necessary due to the small size of the stand. Use grouse spec</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> Medium to high stocking of aspen, oak, red maple, and pine.</p> <p><u>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>										
123 54065123-Cut	35.5	4131 - Aspen, Oak	Poletimber Well	51	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with 3-10% retention. Use grouse log spec. Protect snowmobile trail</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> Fully stocked stand of aspen, oak, pine, and maple. If large areas come back to mostly red maple consider planting red pine there.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /19/2020</p>										

Total Treatment 375.6
Acreage Proposed:

Report 4 – Site Conditions

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Compartment: 65
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
734	0	55	32

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions								
					5B	5C	MC	2G	3A	3D	3J	5E	
821	734	0	55	32	Aspen	54	0				0	6	26
181	0	0	0	181	Cedar				181				
52	52	0	0	0	Herbaceous Openland								0
32	32	0	0	0	Jack Pine				0				
63	61	0	0	2	Low-Density Trees				0				2
22	0	3	3	19	Lowland Conifers	3			19				0
50	50	0	0	0	Lowland Shrub								0
24	1	9	9	14	Lowland Spruce/Fir	9			14				0
224	214	0	0	10	Mixed Upland Deciduous								10
116	47	52	52	17	Natural Mixed Pines	52				12	5		1
105	101	0	0	5	Northern Hardwood								5
199	85	88	88	25	Oak	88			0		21	2	2
6	6	0	0	0	Red Pine								
9	9	0	0	0	Sand, Soil								
14	6	6	6	2	Upland Conifers	6							2
14	0	14	14	0	Upland Mixed Forest	5	9						0
0	0	0	0	0	Upland Shrub								
12	12	0	0	1	Urban		0			0	0	0	
7	6	0	0	1	Water							1	
22	0	22	22	0	White Pine	22							
1,973	1,415	249	249	309	Total Forested Acres	5	244	0	214	12	25	10	47
	72%	13%	13%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Retention from Sale No. 54-016-12-01, Sale Name: Valentine R.R. Grade Mix							

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2	Unavailable	3D: Recreational / Scenic values	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave stand for scenic value along High Country Pathway. Stands on both sides have been clearcut already.							
3	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale No. 54-016-12-01, Sale Name: Valentine R.R. Grade Mix							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	181	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	3A: Conservation Values incompatible with harvest at this time	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: this stand borders the clear lake gravel pit. there has been a lot of work and money spent on closing this area off to orv's and remediating damage caused by them. stand could be cut but recommend it not be due to all the work done in the area. cutting it would again allow orv routes into the pit.							
9	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 64							
10	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 38							
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 38							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 41 and 38							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 17							
20	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 10							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale No. 54-016-12-01, Sale Name: Valentine R.R. Grade Mix							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -Area retention for stand 27 clearcut; stand 27 was originally part of stand 86							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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35	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4136 - Aspen, Mixed Conifer	Sapling Medium	3.9	26	Immature	N/A	old private property signs and posts on west edge of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	2	
Quaking Aspen	48	Sapling/Pole	3	26
Black Spruce	5	Sapling	3	
Tamarack	2	Pole	4	
Red Pine	10	Pole	4	
Jack Pine	5	Sapling	3	

2	4130 - Aspen	Sapling Well	57.9	34		N/A	Old gate and camper in north east corner of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Quaking Aspen	83	Sapling	2	34
Northern White Cedar	2	Pole	6	
White Pine	5	Pole	4	
Pin Cherry	5	Sapling	2	

3	42120 - Planted Jack Pine	Poletimber Well	8.3	41	Unspecified	N/A	cable across road in middle of stand. more spruce on swamp edge, some aspen on south edge
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	7		Red Oak	Low	5 - 10 feet	Sapling
White Oak	5	Pole/Log	8		Red Maple	High	10 - 20 feet	Sapling
Jack Pine	78	Pole	5	41	White Oak	Low	5 - 10 feet	Sapling
Black Spruce	5	Pole	6		White Spruce	Low	5 - 10 feet	Sapling
Red Oak	10	Log/Pole	10					

4	4199 - Other Mixed Upland Deciduous	Sapling Medium	4.8	3	Immature	N/A	- Clearcut was completed 12/2016
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	45	Sapling	1	3
Red Maple	40	Sapling	1	
Bigtooth Aspen	14	Sapling	1	
Red Pine	1	Sapling	1	

5	4130 - Aspen	Poletimber Well	10.9	54	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	5		Balsam Fir	Low	< 5 feet	Sapling
Red Oak	15	Pole/Log	9		White Oak	Medium	5 - 10 feet	Sapling
White Oak	2	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	68	Pole/Log	8	54	Red Oak	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
6	4130 - Aspen	Poletimber Well	15.7	43	81-110	N/A	more Jack pine and fir on north edge																																																												
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10	4199 - Other Mixed Upland Deciduous	Sapling Poor	35.3	5	Immature	N/A	- Clearcut in 7/24/2015 - Left pine and oak, mark with green paint																																																			
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13	4130 - Aspen	Sapling Well	62.3	27	Immature	N/A	Clearcut 1993																																																			
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14	6122 - Black Spruce	Poletimber Well	12.6	85		N/A																																																				
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15	42290 - Natural Mixed Pine	Poletimber Well	7.0	83		N/A																																																				
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16	4111 - S.Maple, Hard Mast Association	Sawtimber Well	9.1	104	51-80	N/A	-Selection harvest was completed 1/19/17 -70 BA of residual was left Regen mostly striped maple, ironwood, and beech, some scattered red oak, white pine, and sugar maple.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Sugar Maple	60	Log/Pole	10	104	
		Basswood	5	Log	10		
		White Ash	5	Log	10		
		Beech	10	Log/Pole	9		
		Red Oak	20	Log	14		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Beech	Low	< 5 feet	Sapling		
		Ironwood	Low	5 - 10 feet	Sapling		
		Striped Maple	Low	< 5 feet	Sapling		
17	4199 - Other Mixed Upland Deciduous	Sapling Poor	50.2	5	Immature	N/A	-Clearcut completed 5/15/15 -Left 3 healthy oak and/or wp per acre
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	33	Sapling	1	5	
		Red Maple	27	Sapling	1		
		White Pine	10	Sapling	1		
		Bigtooth Aspen	20	Sapling	1		
		White Oak	5	Log	10		
		White Pine	5	Log	11		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Medium	Variable	Sapling		
		White Oak	Medium	< 5 feet	Seeding		
18	310 - Herbaceous Openland	Nonstocked	1.3			No	
19	310 - Herbaceous Openland	Nonstocked	1.4			No	
20	6120 - Lowland Cedar	Poletimber Well	6.7	141		N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black Spruce	35	Pole	5		
		Northern White Cedar	60	Pole/Log	8	141	
		Tamarack	5	Pole	5		
21	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.6	73		N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	40	Pole/Log	8	73	
		Bigtooth Aspen	35	Pole	7		
		White Pine	25	Log/Pole	9		
22	4131 - Aspen, Oak	Sawtimber Well	4.5	79		N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	15	Pole	6		
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23	42200 - Natural White Pine	Sawtimber Well	21.9	122		N/A	previous inventory comments said to leave as old growth. small hard to get to stand.																																																			
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25	3102 - Grass	Nonstocked	1.0			No																																																				
26	629 - Mixed non-forested wetland	Nonstocked	2.5			No																																																				
27	4130 - Aspen	Sapling Well	68.6	5	Immature	N/A	- Clearcut was completed 10/21/15 - Left 1 to 3 oak per acre and all red pine and trees greater than 26"																																																			
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28	629 - Mixed non-forested wetland	Nonstocked	3.3			No																																																				
29	4130 - Aspen	Poletimber Well	36.0	46		N/A	New stand added. clear cut. retention around areas of young vigorous oak. do not cut red pine. oak should stump sprout well here																																																			
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30	4131 - Aspen, Oak	Poletimber Well	23.9	46	111-140	N/A																																																									
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31	710 - Sand, Soil	Nonstocked	9.0			No	old gravel pit. erosion control with grass mats and logs were placed about 10 years ago																																																								
32	310 - Herbaceous Openland	Nonstocked	1.2			No																																																									
33	42250 - Pine, Oak	Sawtimber Well	11.9	77	51-80	N/A	Previous Inventory: this stand borders the clear lake gravel pit. there has been a lot of work and money spent on closing this area off to orv's and remediating damage caused by them. stand could be cut but recommend it not be due to all the work done in the area. cutting it would again allow orv routes into the pit. 1/3/2020- High country pathway runs through this stand towards M-33.																																																								
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34	4119 - Mixed Northern Hardwoods	Sapling Medium	49.8	3	Immature	N/A	Clearcut in 1981 Aspen and red maple cut out of stand in 2002. -Clearcut completed 12/2016 -Left 2 oak/acre and all rp/wp Regen is mostly clumps of red maple with small amounts of oak, aspen, and pine.																																																								
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35	310 - Herbaceous Openland	Nonstocked	2.4			No																																																									
36	310 - Herbaceous Openland	Nonstocked	4.6			No																																																									
37	310 - Herbaceous Openland	Nonstocked	1.7			No																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
38	330 - Low-Density Trees	Nonstocked	51.4	0		4211 - Planted Red Pine	Herbicide:9/11/2016Trenched: 2/2/2017Planted:4/28/2017 at 942 RP/ac; 1023 trees per ac plot dataYear 3 survey complete 10/04/19. 700 TPA red pine. 91% free to grow.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	High	< 5 feet	Sapling
								Red Oak	Medium	< 5 feet	Sapling
								Red Maple	Low	< 5 feet	Sapling
Black Cherry	Medium	< 5 feet	Sapling								
39	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified						
40	4133 - Aspen, Mixed Pine	Sawtimber Well	27.6	64	111-140	N/A					
								Canopy Species	% Cover	Size Class	DBH
	Bigtooth Aspen	50	Log/Pole	10	64	Red Maple	Medium	10 - 20 feet	Sapling		
	Black/Red (Hybrid) Oak	15	Log	11		Red Oak	Medium	10 - 20 feet	Sapling		
	White Pine	15	Log/Pole	10		White Pine	Full	Variable	Sapling		
	Red Pine	15	Log	12		Black Cherry	Low	5 - 10 feet	Sapling		
	Jack Pine	2	Pole/Log	8		White Oak	Low	10 - 20 feet	Sapling		
	White Oak	3	Pole/Log	9		Beech	Low	5 - 10 feet	Sapling		
41	4199 - Other Mixed Upland Deciduous	Sapling Medium	25.3	3	Immature	N/A	New stand added. aspen and maple cut out in 2004. small amounts of red pine and white oak residual. larger amount of white pine residual, concentrated in the center. oak regen higher on west side				
								Canopy Species	% Cover	Size Class	DBH
	Red Oak	30	Sapling	1	3						
	Red Maple	40	Sapling	1	3						
	Bigtooth Aspen	20	Sapling	1							
	White Pine	5	Sapling	1							
	White Pine	5	Log	10							
42	310 - Herbaceous Openland	Nonstocked	2.1			No					
43	4130 - Aspen	Sapling Well	20.8	26	Immature	N/A	Clearcut 1994, did not cut white pine.				
								Canopy Species	% Cover	Size Class	DBH
	Red Maple	15	Sapling	2		White Oak	Low	10 - 20 feet	Sapling		
	Red Oak	10	Sapling	2		Red Oak	Medium	10 - 20 feet	Sapling		
	Quaking Aspen	70	Sapling/Pole	3	26	Red Maple	High	10 - 20 feet	Sapling		
	White Pine	5	Log	14							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
44	330 - Low-Density Trees	Nonstocked	5.1	0		4211 - Planted Red Pine	Herbicide:9/11/2016Trenched: 2/2/2017Planted:4/28/2017 at 942 RP/ac; 1023 trees per ac plot dataYear 1 Survey 06/11/18. 804 red pine TPA. Competition 1258 TPA including red maple, red oak, white oak, and cherry.Year 3 regen survey complete 10/7/19. 660 TPA red pine. Seedlings are definitely free to grow.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	High	< 5 feet	Sapling	
								Red Maple	Low	< 5 feet	Sapling	
								Red Oak	Medium	< 5 feet	Sapling	
								Black Cherry	Medium	< 5 feet	Sapling	
White Oak	Low	< 5 feet	Sapling									
45	310 - Herbaceous Openland	Nonstocked	1.2			No	white pine saplings filling in quickly from edges					
46	500 - Water	Nonstocked	4.0			No						
47	4126 - White, Black, N. Pin Oak	Sawtimber Well	47.8	90	81-110	N/A	Portion of stand west of rod and gun rd. was clearcut in 1983.A few patches of young aspen about 2 acres in size. Stand is mostly white oak over red maple that is starting to make its way into the canopy.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Sapling/Pole	4	
								Red Oak	5	Pole/Log	8	
								White Oak	60	Log/Pole	10	90
								Quaking Aspen	10	Pole	5	38
								White Pine	10	Log	12	
								Red Pine	5	Log	12	
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								White Oak	High	< 5 feet	Seeding	
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48	42290 - Natural Mixed Pine	Sapling Well	4.9	26	51-80	N/A	Clearcut 1992					
48												
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	5	Sapling	3	
								White Pine	35	Log	15	
								Red Pine	5	Log	15	
								Jack Pine	50	Sapling	3	26
White Oak	5	Log/Pole	12									
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	High	Variable	Sapling									
49	4133 - Aspen, Mixed Pine	Sapling Well	1.6	26	Immature	N/A						
49												
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	53	Sapling	3	26
								White Pine	25	Log	15	
								Red Pine	5	Log	15	
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50	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	2.3	26		N/A																																																																
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51	4126 - White, Black, N. Pin Oak	Sawtimber Well	47.0	95	51-80	N/A	Dense oak and pine regen throughout stand. More overstory pine to the south end																																																															
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52	6122 - Black Spruce	Poletimber Medium	9.2	94		N/A																																																																
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53	310 - Herbaceous Openland	Nonstocked	4.2		Unspecified	No																																																																
54	429 - Mixed Upland Conifers	Poletimber Well	6.2	51	111-140	N/A	Spruce on the edges by the bogs. Small stand of pine with some oak and aspen.																																																															
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55	42290 - Natural Mixed Pine	Sawtimber Medium	4.6	97	1-50	N/A																																																													
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56	622 - Lowland Shrub	Nonstocked	5.0			No																																																													
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57	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified																																																														
58	4124 - Red with White Oak	Sawtimber Well	7.8	80		N/A	Decent quality oak. Would be fine to hold off on cutting until oak in understory becomes better established																																																												
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59	42120 - Planted Jack Pine	Sapling Well	21.7	26	Immature	N/A	Clearcut in 1992. Planted 1994a couple small aspen pockets to the north																																																												
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60	4130 - Aspen	Sapling Poor	20.1	3	1-50	N/A	Aspen regenerating well. good amount of oak seedlings under aspen as well as some white pine and balsam fir. Some larger residual oak and red pine																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67 4131 - Aspen, Oak Poletimber Well 56.5 44 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		White Pine	Low	5 - 10 feet	Sapling
Red Oak	20	Log	10		Red Maple	High	Variable	Sapling
White Oak	15	Log	10		Red Oak	Low	< 5 feet	Sapling
Quaking Aspen	53	Pole	5	44				
White Pine	5	Log	12					
Red Pine	2	Log	12					

68 310 - Herbaceous Openland Nonstocked 1.6 No pine saplings filling opening, mostly white pine.

69 4133 - Aspen, Mixed Pine Poletimber Well 7.1 48 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Pole	6	48	Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	30	Log	12		Red Oak	Low	5 - 10 feet	Sapling
Red Oak	5	Pole/Log	8		Black Cherry	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole	7		White Pine	Medium	Variable	Sapling
White Oak	10	Log/Pole	10					
Red Maple	5	Sapling/Pole	4					

70 4133 - Aspen, Mixed Pine Poletimber Well 35.3 36 141-170 N/A wait till aspen is more mature, then cut

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log	10		Red Maple	Full	>20 feet	Sapling
White Oak	15	Log	10		Red Oak	Low	10 - 20 feet	Sapling
Quaking Aspen	40	Pole	5	36	White Pine	Medium	Variable	Sapling
White Pine	30	Log	14					
Red Pine	5	Log	10					
Red Maple	5	Sapling/Pole	3					

71 4126 - White, Black, N. Pin Oak Sawtimber Well 9.3 104 81-110 N/A aspen regen soon to die because too much oak residual left when aspen and maple where cut out 5 yrs ago. 2019 - if cut, red maple would take over this site

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole	12	73	Red Maple	High	5 - 10 feet	Sapling
White Oak	70	Log/Pole	10	104	Red Oak	Low	< 5 feet	Sapling
White Pine	10	Log	10		White Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72 4311 - Pine, Aspen Mix Poletimber Well 9.3 61 51-80 N/A Some more open areas are heavier to oak/aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole/Sapling	5		White Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	15	Sapling/Pole	3	37	White Pine	Medium	Variable	Sapling
Jack Pine	15	Sapling/Pole	4		Black Cherry	Low	5 - 10 feet	Sapling
Pin Cherry	5	Sapling/Pole	3					
Red Pine	35	Log	12	61				

73 310 - Herbaceous Openland Nonstocked 2.7 No dense patches of white pine regen

74 310 - Herbaceous Openland Nonstocked 1.2 Unspecified

75 310 - Herbaceous Openland Nonstocked 3.7 Unspecified

76 4133 - Aspen, Mixed Pine Poletimber Well 22.6 44 N/A more white pine in canopy to southeast

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		White Pine	Low	Variable	Sapling
Red Oak	10	Pole/Log	8		Red Oak	Medium	10 - 20 feet	Sapling
Quaking Aspen	65	Pole	7	44				
White Pine	5	Log/Pole	10					
Red Pine	5	Log/Pole	12					
Jack Pine	10	Pole	7					

77 310 - Herbaceous Openland Nonstocked 1.0 Unspecified

78 4112 - Maple, Beech, Cherry Association Sapling Well 46.3 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	80	Sapling	1	6
Black Cherry	5	Sapling	1	6
Quaking Aspen	4	Sapling	1	6
Red Oak	10	Log	14	82

-clearcut was closed 5/06/14
-left scattered oak and all pine
FTP C54-1071
Roller Chopped on 5/29/14
Herbicide on 9/9/16
Trenched on 1/8/17
Planted on 4/28/17 at 973 RP/ac with MI0320 4-0 stock
Year 1 Regen Survey on 6/25/18 483 RP/ac & 2631 Comp/ac
Restart the process over starting with a herbicide spray in 2019

79 4130 - Aspen Poletimber Well 3.0 32 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	11	102	Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	80	Pole	4	36	Red Oak	Low	10 - 20 feet	Sapling
White Pine	5	Log	12		White Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
80	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	4.4	3	1-50	N/A	Jack pine beginning to fill in. Good amount of residual red and white pine and white oak																																																																								
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Black Cherry	10	Sapling	1																																																																												
Bigtooth Aspen	5	Sapling	1																																																																												
81	42250 - Pine, Oak	Sawtimber Medium	52.0	77	51-80	N/A	New stand added. aspen and maple cut out in 2004. Too much oak and pine residual left from previous cut. Large patches of aspen/ red maple regeneration.																																																																								
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
White Pine	25	Log/Pole	11	93	Red Maple	Medium	10 - 20 feet	Sapling																																																																							
Black/Red (Hybrid) Oak	20	Log/Pole	10		Red Oak	Medium	10 - 20 feet	Sapling																																																																							
Red Pine	43	Log/Pole	10	77	Bigtooth Aspen	Medium	10 - 20 feet	Sapling																																																																							
White Oak	10	Pole/Log	8		White Pine	Medium	Variable	Sapling																																																																							
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					Red Pine	Low	10 - 20 feet	Sapling																																																																							
82	4199 - Other Mixed Upland Deciduous	Sapling Well	36.9	5	1-50	N/A	Stand was clearcut in 1985 clearcut again 5/06/14 -left scattered oak and all pine																																																																								
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Red Oak	3	Log	14																																																																												
Red Pine	2	Log	14																																																																												
83	4310 - Pine, Oak Mix	Sawtimber Poor	4.9	92	1-50	N/A	Patch of spruce and fir regen in the middle of stand. Red pine regen has dense patches scattered through stand. White pine and oak seedlings throughout. Residual oak and pine is about 30 BA																																																																								
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Red Oak	50	Log	14	92	Black Cherry	Medium	5 - 10 feet	Sapling																																																																							
White Pine	20	Sapling/Pole/Log	2	5	White Pine	Medium	Variable	Sapling																																																																							
White Oak	5	Log	12		Red Pine	Medium	10 - 20 feet	Sapling																																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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84 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 2.4 106 51-80 N/A Ditch runs through the middle, filled with tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Log	16		Red Oak	Low	5 - 10 feet	Sapling
Red Pine	40	Log	14	106	Quaking Aspen	Low	10 - 20 feet	Sapling
Bigtooth Aspen	15	Log/Pole	10		White Pine	High	Variable	Sapling
Red Maple	15	Pole	7		Balsam Fir	Medium	Variable	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub
					Black Spruce	Low	< 5 feet	Sapling

85 310 - Herbaceous Openland Nonstocked 6.0 0 No

86 4131 - Aspen, Oak Poletimber Well 219.7 51 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Red Maple	Medium	10 - 20 feet	Sapling
Red Oak	10	Pole/Log	9		Red Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	17	Pole/Log	8	51	White Pine	Low	< 5 feet	Sapling
White Pine	3	Pole/Log	9		Hawthorn (spp.)	Low	Variable	Tall Shrub
Red Pine	5	Log	13		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	10	Log/Pole	10		White Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	45	Pole/Log	8	51				

87 4130 - Aspen Sapling Well 8.5 18 1-50 N/A Aspen and red maple cut out of stand in 2002.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	72	Sapling	3	18	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Maple	15	Sapling	3		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Red Oak	5	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
White Oak	5	Log	10		White Oak	Low	< 5 feet	Sapling
White Oak	3	Sapling	3		White Pine	Low	Variable	Sapling

88 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 1.5 93 111-140 N/A orv trail along north edge of stand. hilly, sandy roads, low visibility around corners.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Oak	5	Log/Pole	7		White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	20	Log	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	43	Pole/Log	8	93				
White Pine	20	Log/Pole	10					
Red Pine	2	Log	9					
Jack Pine	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 3.3 93 81-110 N/A -left as area retention for stand 64

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	8	
Red Oak	45	Log/Pole	10	93
White Oak	10	Pole/Log	9	
Quaking Aspen	20	Pole	5	
White Pine	10	Log	12	
Red Pine	10	Log	12	

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

90 6122 - Black Spruce Poletimber Well 2.0 85 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole	4	
Black Spruce	60	Pole	5	85
White Pine	10	Log/Pole	9	
Red Pine	10	Log/Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling

91 622 - Lowland Shrub Nonstocked 1.4 0 No

92 500 - Water Nonstocked 1.4 0 No

93 4199 - Other Mixed Upland Deciduous Sapling Well 28.1 5 Immature N/A Top of the hill has way more red maple and aspen while the rest of the stand is primarily red oak with some white oak

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	45	Sapling	1	5
Bigtooth Aspen	10	Sapling	1	
Red Maple	25	Sapling	1	
Black Cherry	5	Sapling	1	
Red Pine	5	Sapling	1	
White Oak	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	< 5 feet	Seeding

94 4131 - Aspen, Oak Sapling Well 3.7 18 1-50 N/A aspen and red maple where cut out of this stand in 2005.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Sapling	3	
White Oak	15	Sapling	2	
Red Pine	5	Log	10	
Bigtooth Aspen	50	Sapling	2	18
Red Maple	20	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
White Oak	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments							
95	330 - Low-Density Trees	Nonstocked	5.7	0		4310 - Pine, Oak Mix	Stand is filling in slowly. mostly jack and white pine with some oak. Some balsam fir and spruce on swamp edge. Scattered residual white oak and red pine.							
								Sub-Canopy Species	Density	Avg. Height	Size			
								White Oak	Low	< 5 feet	Seeding			
								Red Oak	Medium	< 5 feet	Seeding			
								Jack Pine	Medium	< 5 feet	Seeding			
								Red Pine	Low	< 5 feet	Seeding			
								White Pine	Low	< 5 feet	Seeding			
Black Cherry	Low	< 5 feet	Sapling											
96	6124 - Lowland Spruce-Fir	Poletimber Well	3.7	87		N/A								
								Canopy Species	% Cover	Size Class	DBH	Age		
	Red Maple	2	Pole	8										
	Northern White Cedar	40	Log/Pole	10										
	Balsam Fir	10	Pole/Sapling	5										
	Black Spruce	40	Pole/Log	8	87									
	Tamarack	8	Pole/Sapling	6										
	Sub-Canopy Species	Density	Avg. Height	Size										
	Tag Alder	High	5 - 10 feet	Tall Shrub										
	Balsam Fir	Medium	Variable	Sapling										
97	320 - Upland Shrub	Nonstocked	0.5			No								
98	500 - Water	Nonstocked	0.7	0		No								
99	4126 - White, Black, N. Pin Oak	Sawtimber Medium	2.0	90	1-50	N/A								
								Canopy Species	% Cover	Size Class	DBH	Age		
								Black/Red (Hybrid) Oak	25	Log	11			
								White Oak	60	Log	11	90		
								White Pine	15	Log	12			
								Sub-Canopy Species	Density	Avg. Height	Size			
								Red Oak	Medium	< 5 feet	Sapling			
Red Maple	Full	>20 feet	Sapling											
Black Cherry	Trace	< 5 feet	Sapling											
White Pine	Medium	Variable	Sapling											
100	3102 - Grass	Nonstocked	0.8	0	Unspecified									
101	3102 - Grass	Nonstocked	0.8	0	Unspecified	Gas well pad								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102 4133 - Aspen, Mixed Pine Poletimber Well 16.4 47 N/A Portion of stand west of rod and gun rd. was clearcut in 1983.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4		White Pine	High	Variable	Sapling
Red Oak	5	Log/Pole	10		White Oak	Medium	10 - 20 feet	Sapling
White Oak	15	Log/Pole	10		Red Maple	High	>20 feet	Sapling
Quaking Aspen	45	Pole/Log	8	47	Beech	Trace	5 - 10 feet	Sapling
White Pine	20	Log	12					
Red Pine	5	Log	12					

103 3102 - Grass Nonstocked 0.9 0 Unspecified

104 6120 - Lowland Cedar Poletimber Well 6.8 88 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	25	Pole	5		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	15	Pole/Log	6		Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	50	Pole	6	88	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	10	Pole/Log	7					

105 4126 - White, Black, N. Pin Oak Sawtimber Well 32.9 44 N/A High quality white oak. Plentiful oak seedlings. dense red maple understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		White Pine	Low	5 - 10 feet	Sapling
Red Oak	15	Log	10		Red Maple	Full	10 - 20 feet	Sapling
White Oak	55	Log/Pole	11	44	White Oak	High	< 5 feet	Seeding
Quaking Aspen	5	Pole	5	44				
White Pine	15	Log	12					
Red Pine	5	Log	12					

106 42290 - Natural Mixed Pine Sawtimber Well 2.2 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	11		Red Pine	Medium	Variable	Sapling
Red Oak	15	Log/XLog	16		Red Oak	High	< 5 feet	Seeding
Red Pine	20	Log	14		White Pine	High	Variable	Sapling
White Pine	55	Log/Pole	14	80	Black Cherry	Medium	10 - 20 feet	Sapling
Red Maple	5	Pole	7					

107 122 - Road/Parking Lot Nonstocked 3.1 0 No

108 122 - Road/Parking Lot Nonstocked 4.5 0 No Dense oak and pine regen throughout stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
109	330 - Low-Density Trees	Nonstocked	0.6	0		42260 - Natural Pine, Mixed Deciduous	Some residual red pine. Jack pine is growing in underneath along with some oak and cherry, currently moderate stocking. Hoping to see more pine and a little deciduous growing into this stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Medium	< 5 feet	Seeding	
								Red Oak	Low	< 5 feet	Seeding	
Black Cherry	Low	< 5 feet	Seeding									
110	122 - Road/Parking Lot	Nonstocked	1.8	0		No	New stand added.					
111	122 - Road/Parking Lot	Nonstocked	2.7	0		No						
112	42290 - Natural Mixed Pine	Sawtimber Well	14.2	88	81-110	N/A	aspen and red maple where cut out of this stand in 2005.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	10	Log	10	88
								White Oak	10	Log	10	
								White Pine	55	Log	10	88
								Red Pine	25	Pole/Log	9	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	High	5 - 10 feet	Sapling									
Quaking Aspen	Low	10 - 20 feet	Sapling									
White Pine	High	Variable	Sapling									
Red Oak	Medium	5 - 10 feet	Sapling									
113	4126 - White, Black, N. Pin Oak	Sawtimber Well	2.9	90	51-80	N/A	aspen and maple cut out in 2004.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Oak	60	Log	10	90
								Red Pine	25	Pole/Log	9	
								Red Oak	15	Pole/Log	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Full	10 - 20 feet	Sapling									
White Oak	High	5 - 10 feet	Sapling									
Red Oak	Medium	5 - 10 feet	Sapling									
White Pine	Medium	Variable	Sapling									
114	42210 - Natural Red Pine	Sawtimber Medium	5.6	65	51-80	N/A	New stand added. aspen and maple cut out in 2004. Residual red pine with a decent oak understory. let the oak establish better and then take the top off					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	100	Log	12	65
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Medium	Variable	Sapling	
								White Oak	Medium	10 - 20 feet	Sapling	
Red Oak	Full	>20 feet	Sapling									
Jack Pine	Low	10 - 20 feet	Sapling									
Red Maple	Medium	10 - 20 feet	Sapling									
115	31021 - Cool Season Grass	Nonstocked	0.4		Unspecified							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
116	4131 - Aspen, Oak	Poletimber Well	6.2	46		N/A	Dense red maple regen is beginning to reach the canopy.																																																			
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117	4126 - White, Black, N. Pin Oak	Sawtimber Well	18.3	91	111-140	N/A	Dense red maple understory is starting to make it into the canopy. If cut, the stand would likely be a field of red maple.																																																			
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118	4123 - Red Oak	Poletimber Well	4.3	45	51-80	N/A	Young oak stand. Many are multi-stem but seem to have good form. Red maple is starting to reach the canopy. Cover is more sparse to the east with a few large white oak included.																																																			
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119	42290 - Natural Mixed Pine	Sawtimber Well	3.2	61	51-80	N/A	Sparser cover and more white pine regen in the south. More oak regen under pine to the north.																																																			
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120	4131 - Aspen, Oak	Sawtimber Well	8.2	54	81-110	N/A																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
121	4133 - Aspen, Mixed Pine	Poletimber Well	13.4	44	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		5	Pole/Log	8		White Oak	
White Oak		10	Log/Pole	11		Red Maple	
Bigtooth Aspen		55	Pole	5	44	White Pine	
White Pine		20	Log	12		Red Oak	
Red Pine		10	Log/Pole	10		Density	
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