



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54073

Entry Year 2018

Acreage: 1,041

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 2016-06-02

Stand Examiner: Andrew Krugh

Legal Description:

T-32-N, R-03-E, Sections 28, 31, 32 and 33

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for the good of the citizens and wildlife of the State of Michigan

Soil and topography:

Grayling sand is in the majority of the compartment in the south, with Tawas-Lupton muck in the south east and a variety of soil types through out the compartment. Topography is level to gently rolling.

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

This compartment is typical for an area with an inland lake in Northern Michigan, the private lands are mostly developed with both seasonal and permanent residences. Illegal O.R.V. operation is quite common east of Deer Foot Trail, Directors Order 4.35, 2, a, prohibits motorized vehicle operation in the E1/2 of the SE ¼ of section 32.

Unique Natural Features:

Some species are present in and around the compartment.

Archeological, Historical, and Cultural Features:

Two archaeological sites are recorded within section 32. However, both are located on private land and will not be a concern

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is located in Montmorency County approximately six miles northwest of Hillman and 8 miles northeast of Atlanta. The topography is somewhat flat and Grass Lake is in the center of the compartment. The compartment is part of a 36 sq. mil landscape dominated by State Forest Lands. The compartment is located in Ecoregion VII.6.1, a broad flat outwash plain with excessively drained sandy soils. Kotar's cover typing system classifies this compartment as a pine management unit with PArVHa-PArVVb over most of the area. Fire history in this area has been one of infrequent catastrophic stand replacing fires. GLO data suggest the northern half of the compartment was a mix of red and white pine on the uplands and tamarack on the low areas. The southern half supported a mix of red and jack pine on the uplands and tamarack on the low areas. A deer model implies that this landscape would move from aspen/birch to white pine and northern hardwoods through natural succession. Today aspen (60%), oak (15%), lowland brush (6%), black spruce (5%), openings (5%) and mixed swamp conifers make up 95% of this compartments habitat. Today this compartment provides a high (850+ acres) habitat potential for bear, red fox, brown snake, garter snake, coyote, northern short-tailed shrew, masked shrew, long-tailed weasel and southern red-backed vole to name only a few species. The planned treatments along with succession over the next ten years will have little to no negative impact on the above listed species; however, the habitat will be enhanced for bobcat, elk, robin and a whole host of woodland raptors.

Mineral Resource and Development Concerns and/or Restrictions

Sections 28 & 31-33, T32N R3E, Montmorency Co.

Surface sediments consist of coarse-textured glacial till, glacial outwash sand and gravel, and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale. The Antrim is quarried for cement products elsewhere in the state. The closest active sand/gravel pit is located three miles to the west, but potential is decent within the compartment, although the water table appears to be relatively shallow. The

compartment has lower potential for the Antrim Shale, as the formation is less than 200 feet thick here and terminates just to the northeast. There are no oil and gas leases in the compartment, but there are active leases and production within one mile.

Vehicle Access:

Access into the compartment, in the north, off Co. Rd. 628, in the south, off Co. Rd. 624.

Survey Needs:

May need survey in stand 82. Private owner next to state land cut his property and current map shows trespass. While inventorying no bearing trees or corner markers were found.

Recreational Facilities and Opportunities:

A public access site is located on the south side of Rush Lake at the end of Lake Shore Rd. Area is used extensively for fishing and hunting.

Fire Protection:

This compartment is located in the protection area of the Atlanta DNR and the Hillman Fire Department. Hillman Fire department would most likely be first on scene of any fire in the area due to their proximity to the area. The Atlanta DNR has mutual aid agreements with Hillman Fire Department and also supplies them with GSA 6x6 fire unit. This area has a lower potential of major fire growth. Several fires have occurred in the general area.

Additional Compartment Information:

Section 32 once contained a Township dump and now has a Township transfer station in the same location. Trash dumping has slowed considerable in the last ten years. Illegal ORV operation is still a problem here.

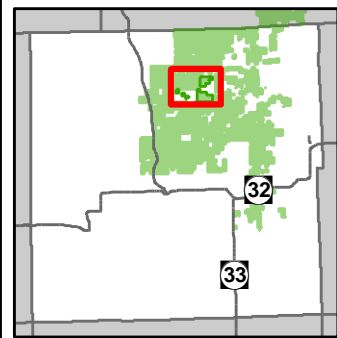
The following reports from the Inventory are attached:

- 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:

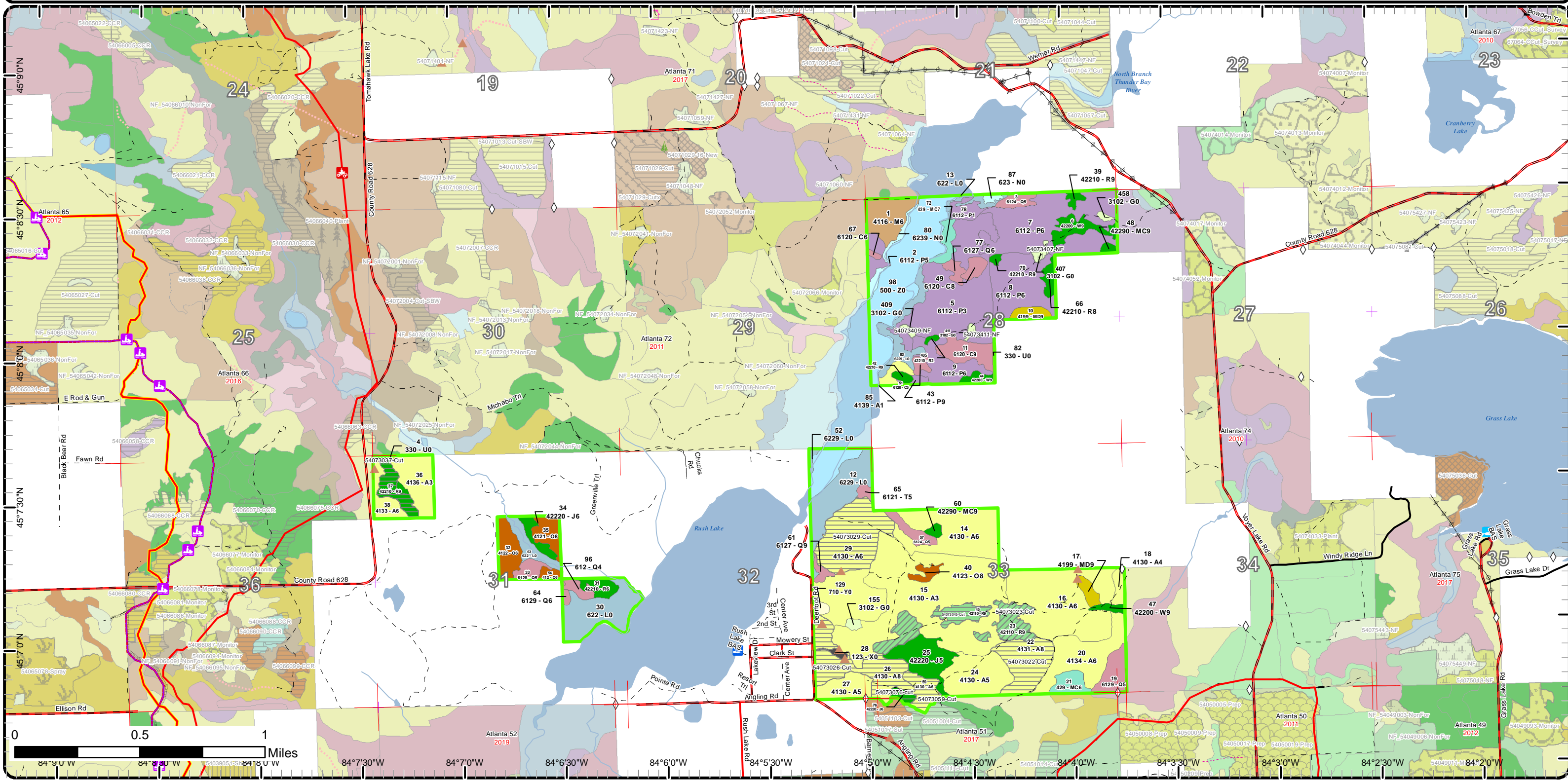
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

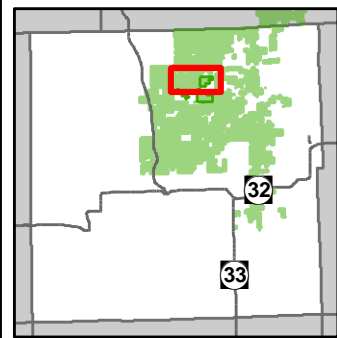


Compartment: 73
 T32N, R03E,
 Sec: 28, 31-33
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2018
 Acres: 1,041 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/6/2016
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ▲ Berms
- 🚤 Boating Access Site
- 🌲 Tree (marking)
- 🚲 ORV Trails
- Designated ATV Trails
- County Paved Roads
- Paved Roads
- County Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- ⋯ Closed Roads
- Rivers
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▭ Opening Maintenance
- ▭ Thinning (Crown, Low, Systematic)
- ▭ 411 - Northern Hardwood
- ▭ 412 - Oak Types
- ▭ 413 - Aspen Types
- ▭ 419 - Mixed Upland Deciduous
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 429 - Mixed Upland Conifers
- ▭ 611 - Lowland Deciduous Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 123 - Other High Intensity Urban
- ▭ 310 - Herbaceous Openland
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland
- ▭ 710 - Sand/Soil
- ▭ Lakes

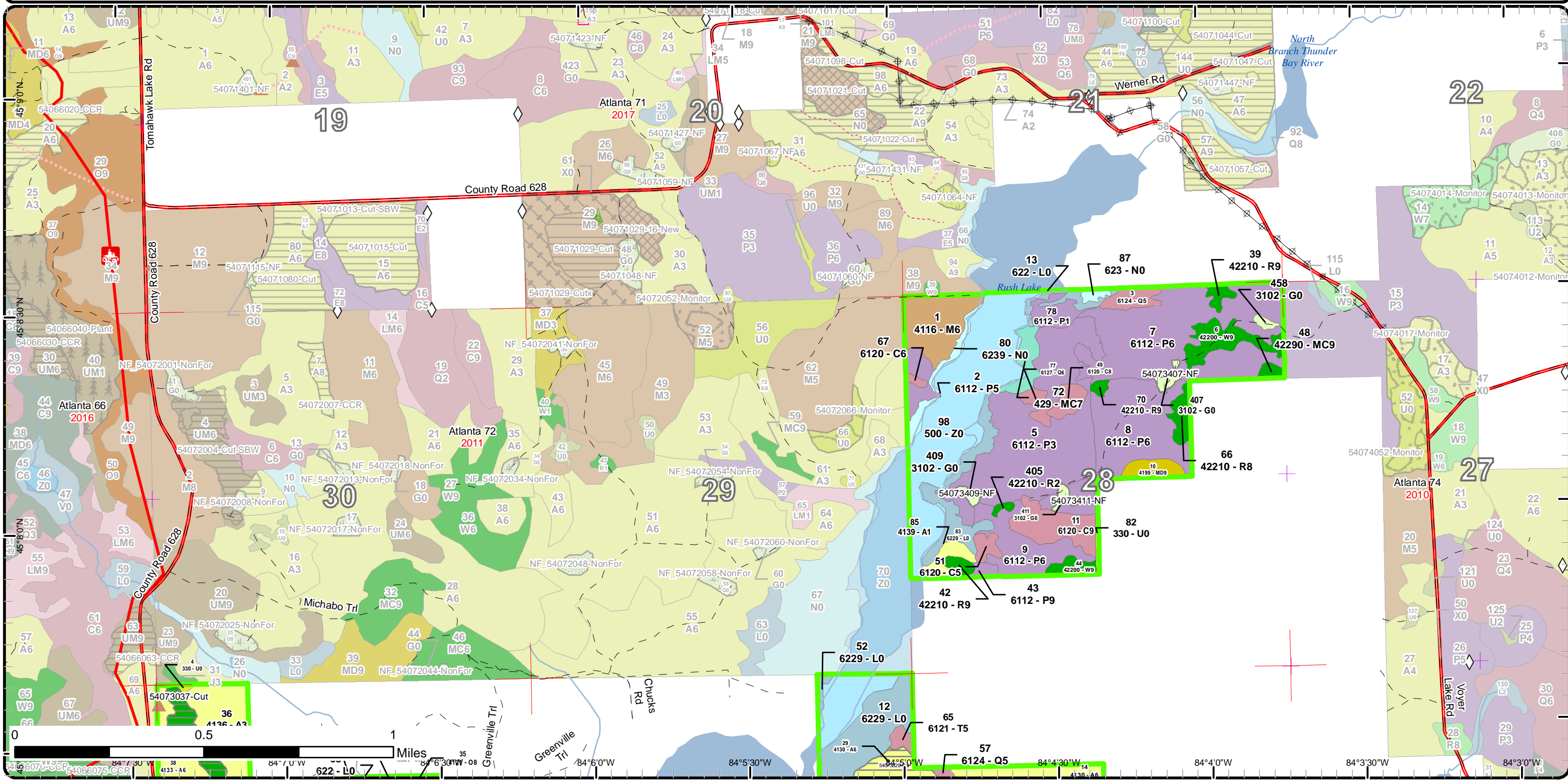


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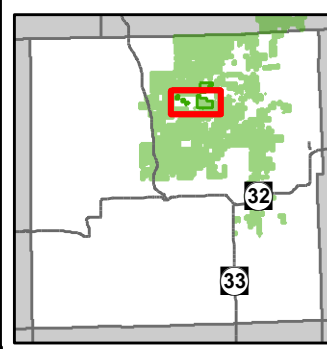
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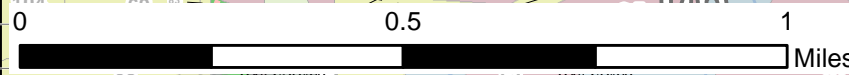
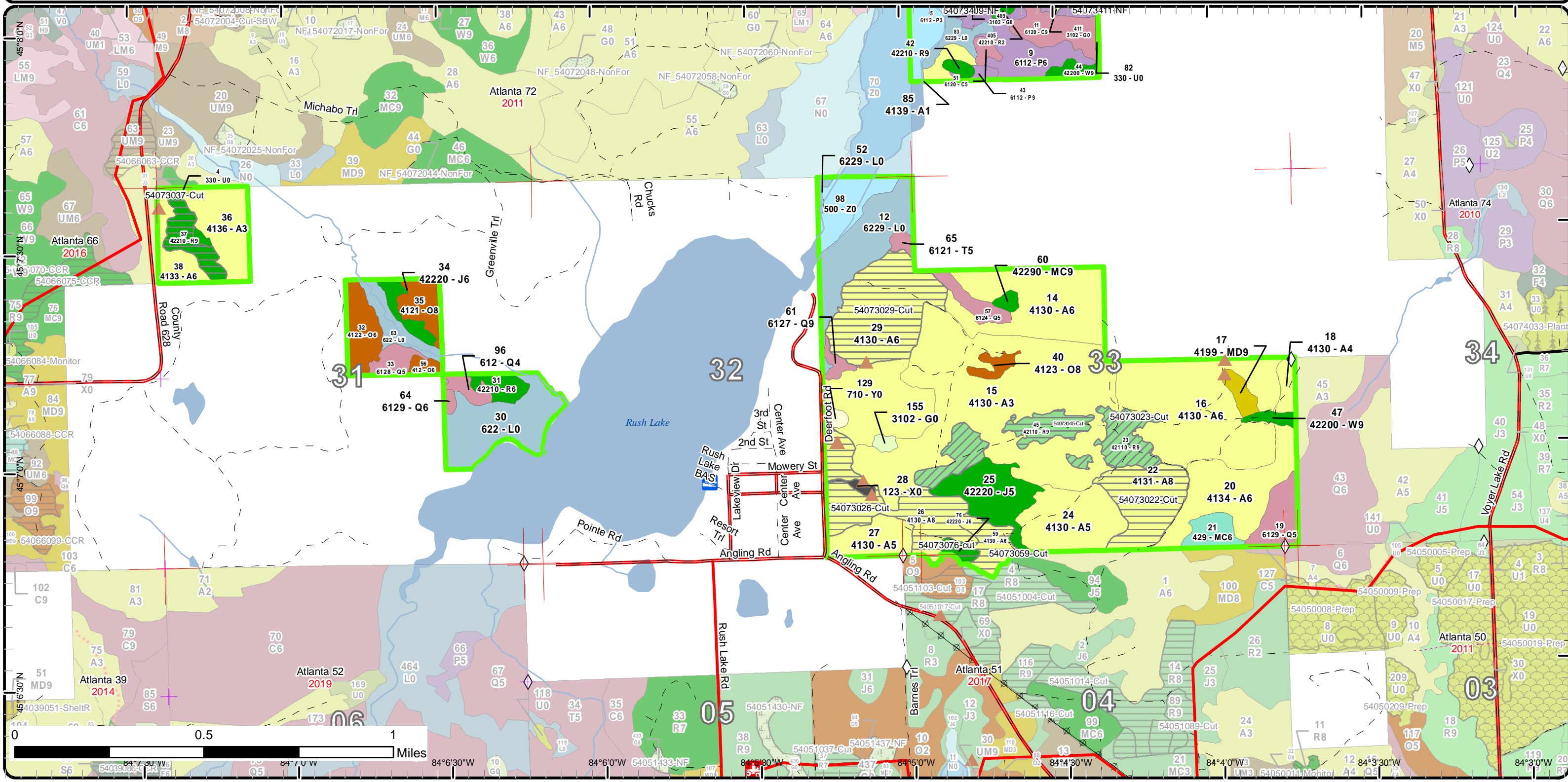


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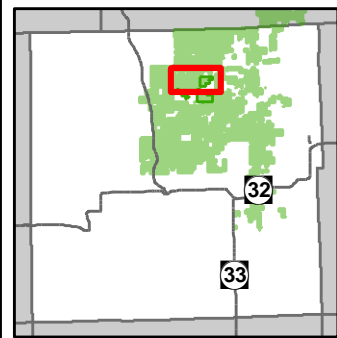


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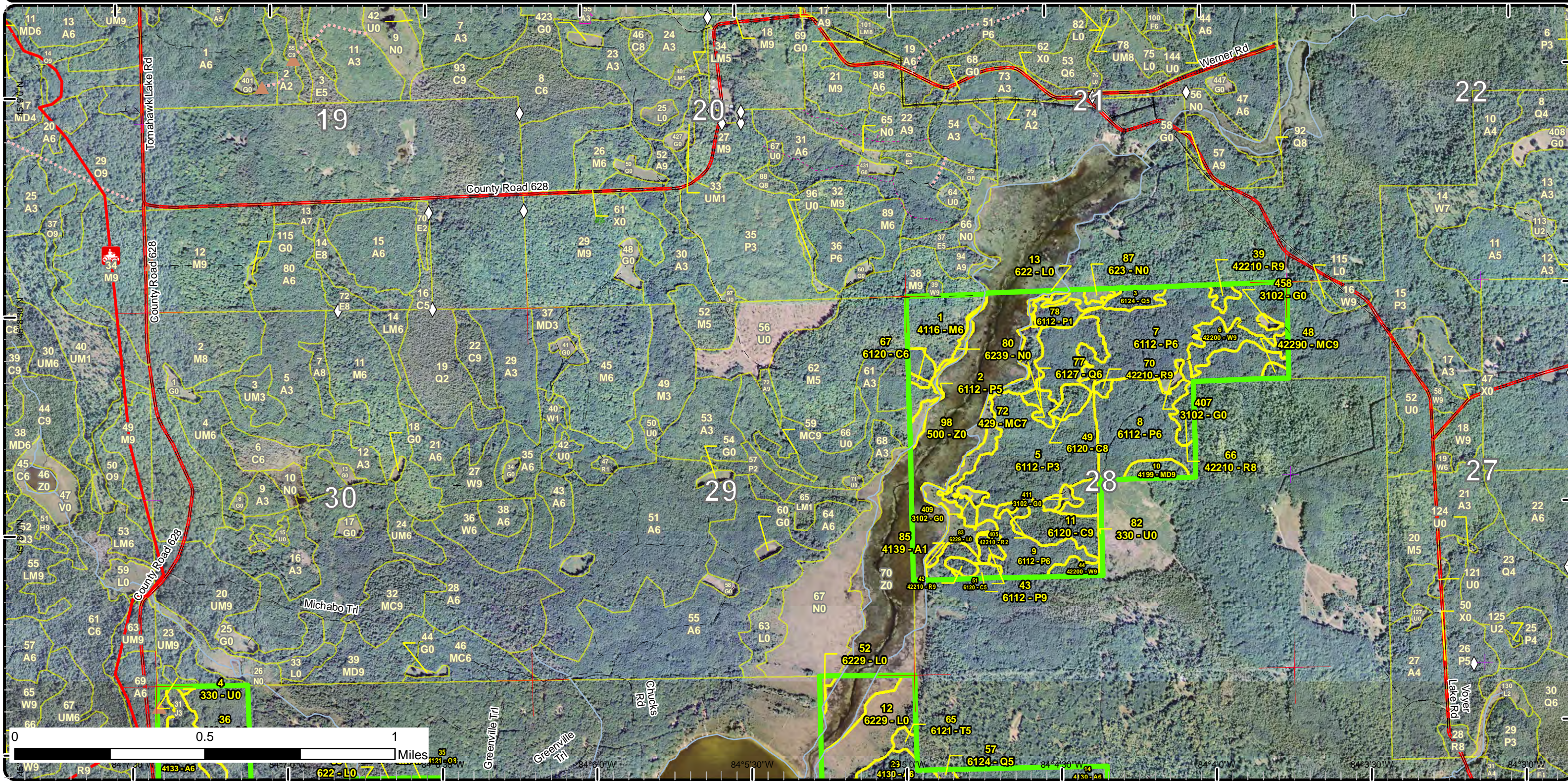
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Stand Boundary Map



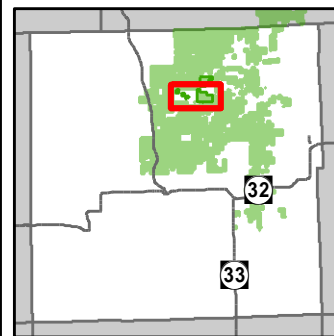
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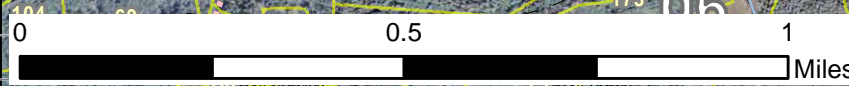
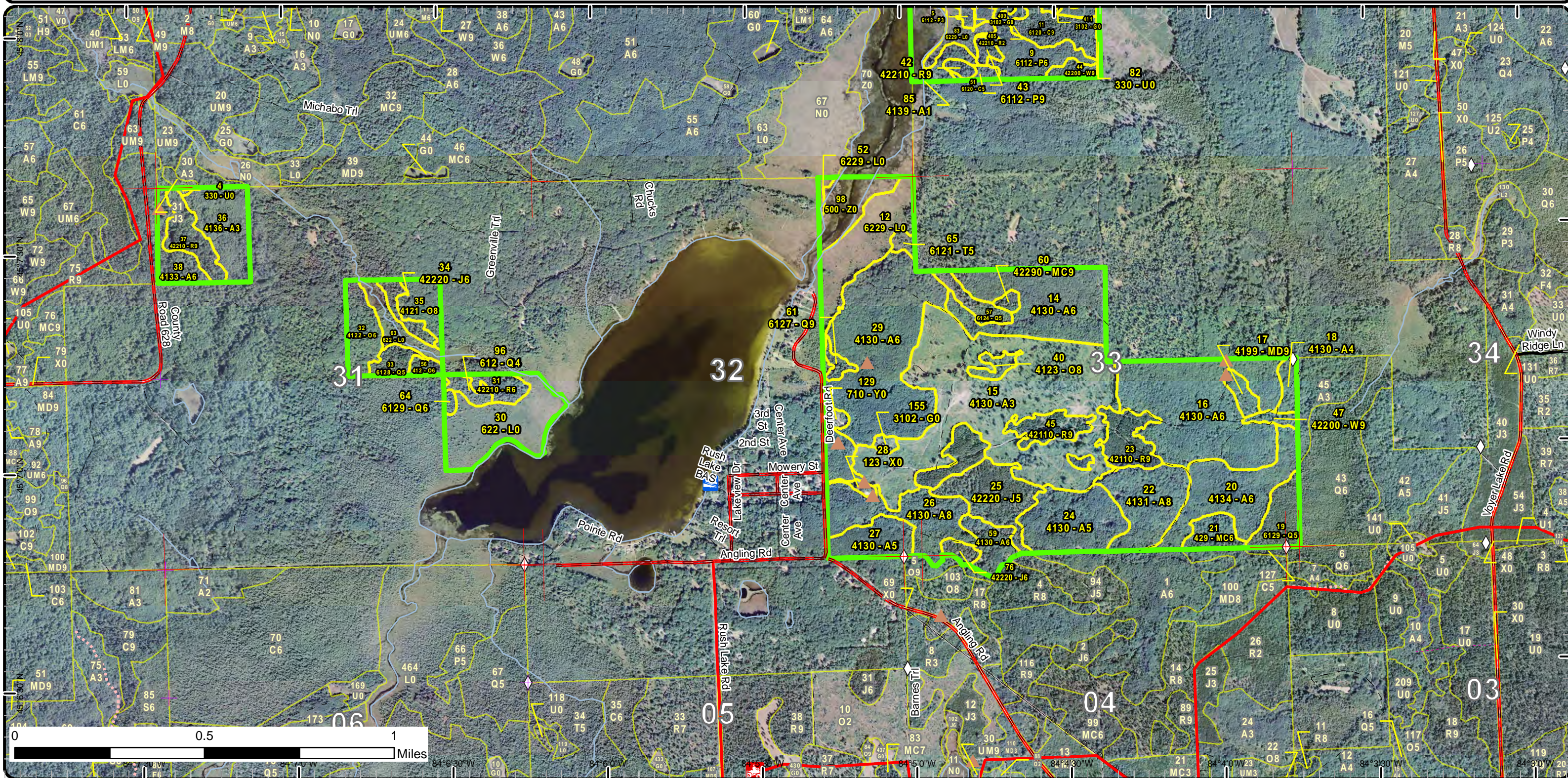


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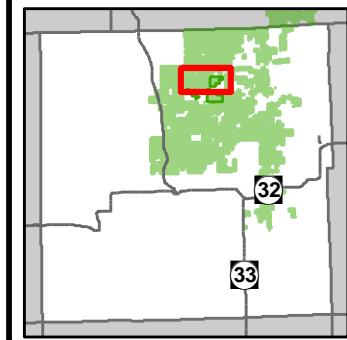
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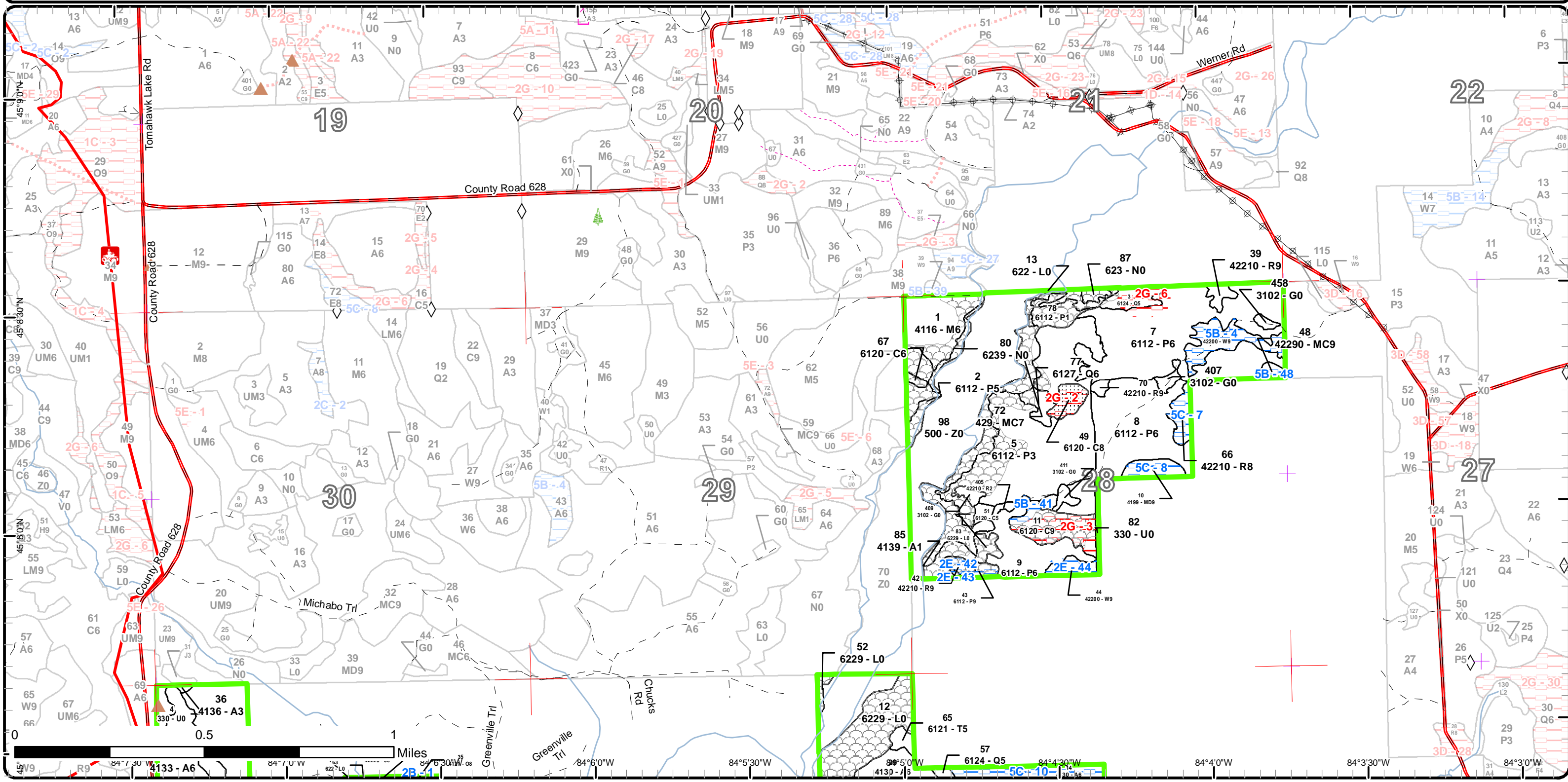
84° 30' W 84° 15' W 84° 0' W 83° 45' W 83° 30' W 83° 15' W 83° 0' W 82° 45' W 82° 30' W 82° 15' W 82° 0' W

Special Conservation Areas & Site Conditions Map

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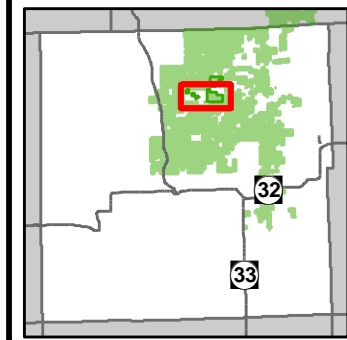


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- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: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

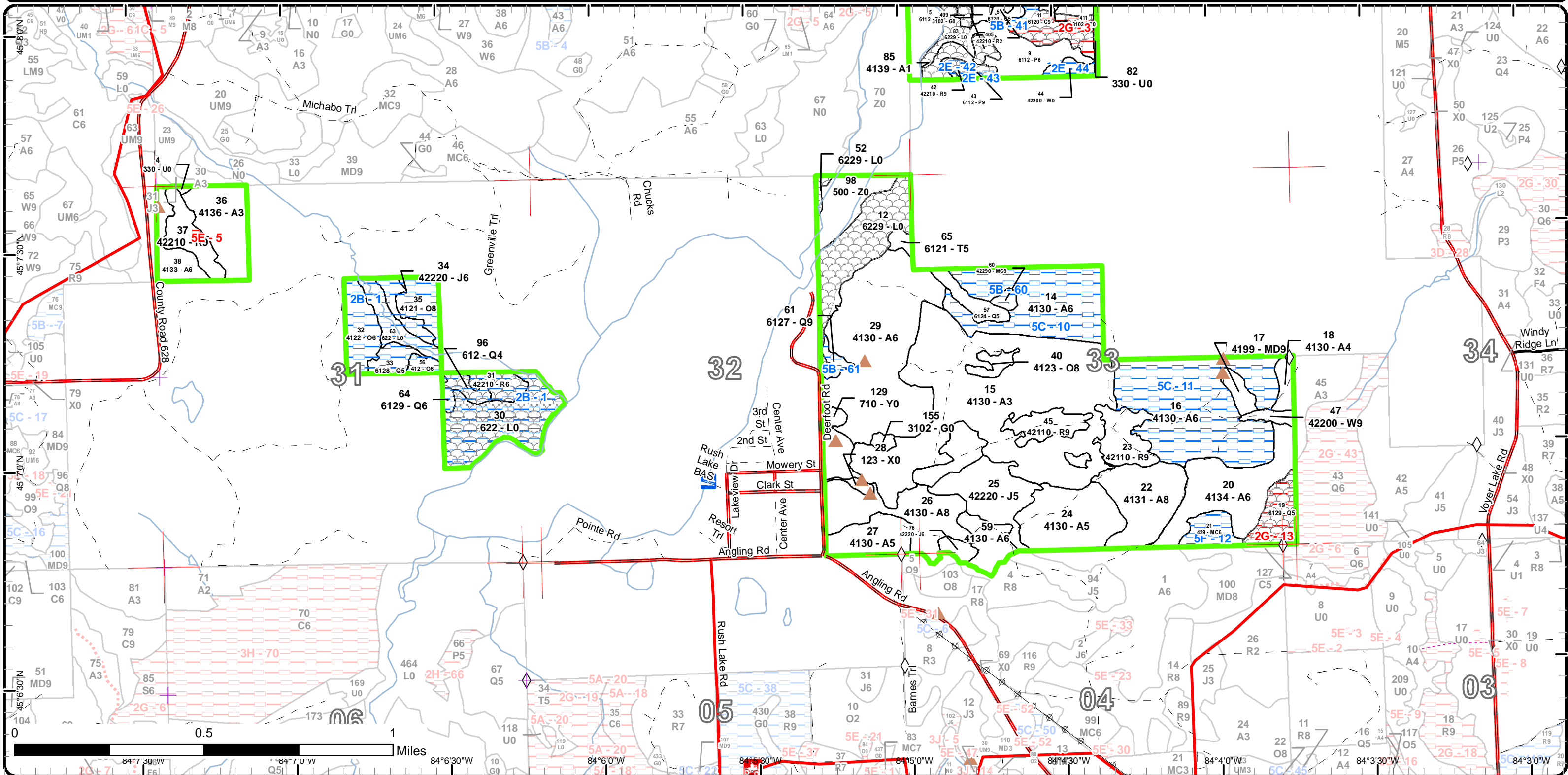


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Report 1 – Total Acres by Cover Type and Age Class



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	115	0	31	27	188	97	0	0	0	0	0	0	0	0	0	0	0	457
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	19
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	0	0	0	0	23	0	0	0	5	0	0	0	0	0	0	0	0	28
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	63	125	0	0	0	0	2	0	0	0	0	0	0	0	0	190
Lowland Conifers	0	0	0	0	3	5	6	0	0	10	0	14	0	0	0	0	0	0	37
Lowland Shrub	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	8
Natural Mixed Pines	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Oak	0	0	0	0	0	0	0	3	14	9	0	0	0	0	0	0	0	0	26
Red Pine	0	0	1	0	0	0	30	0	2	6	0	0	6	1	11	0	0	0	56
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	7	0	6	0	0	0	0	0	0	0	0	0	0	0	13
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
White Pine	0	0	0	0	0	0	0	0	3	10	3	0	0	0	0	0	0	0	16
Total	171	115	1	94	159	214	138	8	12	30	29	3	20	20	11	0	0	21	1043



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 73

Total Compartment Acres: 1,041

Commercial Harvest - 146
 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	95	0	0	0	0	0	0	0	0	95
Jack Pine	12	0	0	0	0	0	0	0	0	12
Red Pine	18	0	0	0	0	21	0	0	0	39
Total	125	0	0	0	0	21	0	0	0	146

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	146	0	0	0	0	0	0	3	0	149
Next Step	0	36	26	0	18	26	143	0	0	249
Total	146	36	26	0	18	26	143	0	3	399



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	Approval Status
22	54073022-Cut	23.6	4131 - Aspen, Oak	Sawtimber Medium	54	141- 170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut leaving 3-10 percent retention . Put in grouse spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A Moderate to fully stocked mix of aspen, oak, white pine and red pine.

Regen:

Other try and focus retention around oak and pine understory.

Comment:

Proposed Start Date: 10/01/2017

23	54073023-Cut	21.4	42110 - Planted Red Pine	Sawtimber Well	55	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to remove 1/3 of volume.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

26	54073026-Cut	32.2	4130 - Aspen	Sawtimber Medium	53	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species 2 inches and greater. leave 3-10 percent retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable a moderate to fully stocked stand of aspen, maple, pine, fir, and oak.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

29	54073029-Cut	39.5	4130 - Aspen	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut leaving 3-10 percent retention. cut all species 2 inches and greater at DBH

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable moderate to fully stocked aspen, maple, oak.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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	Approval Status
37	54073037-Cut	9.5	42210 - Natural Pine	Red Sawtimber Well	132	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. cut all species 2 inches and greater.

Specs:

Next Step SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Skidder/Mechanical; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Moderate to fully stocked red pine.

Regen:

Other This stand is large diameter trees.

Comment:

Proposed Start Date: 10/01/2016

23	54073045-Cut	8.4	42110 - Planted Red Pine	Sawtimber Well	55	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species 2 inches and greater at DBH.

Specs:

Next Step SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical; Pesticide, Aerial; Planting, Initial Plant

Treatments:

Acceptable Moderate to fully stocked red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

76	54073059-Cut	8.9	42220 - Natural Jack Pine	Poletimber Well	46	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species 2 inches and greater in size. Leave no retention do to small size of stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked mix of aspen, pine, fir, and oak.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

76	54073076-cut	2.8	42220 - Natural Jack Pine	Poletimber Well	46	111- 140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species 2 inches and greater in diameter. leave no retention due to small size

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked jack pine, aspen, red maple.

Regen:

Other full length skid during snow off.

Comment:

Proposed Start Date: 10/01/2017



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	Approval Status
407	54073407-NF	1.7	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

409	54073409-NF	1.4	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

411	54073411-NF	1.4	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 150.8**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Andrew Krugh : Examiner

Compartment: 73
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions									
		With Condition			2B	2E	5B	5C	5F	2G	5E			
457	354	103		0	Aspen				103					
19	3	2		14	Cedar			2				14		
7	7	0		0	Herbaceous Openland									
27	22	5		0	Jack Pine	5								
2	2	0		0	Low-Density Trees		0							
190	185	2		3	Lowland Aspen/Balsam Poplar		2					3		
37	10	12		15	Lowland Conifers	10		2				15		
81	44	37		0	Lowland Shrub	37								
6	6	0		0	Marsh									
8	4	4		0	Mixed Upland Deciduous				4					
3	0	3		0	Natural Mixed Pines			3						
17	17	0		0	Northern Hardwood									
26	3	23		0	Oak	23								
56	43	12		1	Red Pine	5	2		4					1
2	2	0		0	Sand, Soil									
2	2	0		0	Tamarack									
13	6	7		0	Upland Conifers					7				
1	1	0		0	Urban									
72	72	0		0	Water									
16	3	13		0	White Pine		3	10						
1,041	786	223		32	Total Forested Acres	79	7	17	112	7	31	1		
	76%	21%		3%	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	Available	2B: Unknown if access through adjacent landowner(s) is possible	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Andrew Krugh : Examiner

Compartment: 73
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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
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8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5F: Evaluated for Forest Health Considerations	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5B: Maintain for regeneration purposes	2	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
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42	Available	2E: Road needed	2	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	2E: Road needed	2	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
44	Available	2E: Road needed	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Available	5B: Maintain for regeneration purposes	2	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
60	Available	5B: Maintain for regeneration purposes	2	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

Atlanta Mgt. Unit
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Report 4 – Site Conditions

Compartment: 73
Year of Entry: 2018

61	Available	5B: Maintain for regeneration purposes	3	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							



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
	Potential Old Growth		Proposed SCA	4
Comments				
	Potential Old Growth		SCA Removal	1
Comments				
	Potential Old Growth		SCA Removal	10
Comments				
	Potential Old Growth		SCA Removal	11
Comments				
	Potential Old Growth		SCA Removal	17
Comments				
	Potential Old Growth		SCA Removal	25
Comments				
	Potential Old Growth		SCA Removal	37
Comments				
	Potential Old Growth		SCA Removal	54
Comments				

Mgt. Unit

Compartment:

Year of Entry



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	16.6	76	81-110	Heavy white pine understory near lake. There is also a dense understory of balsam fir in southern part of stand. Ash is dead or dying in stand. Stand treated in 2004. Sale TCR'd fall 2005. 3 Comp POP 54-003-01-01. Ocqueoc sand
2	6112 - Lowland Aspen	Poletimber Medium	5.7	32	201+	OPIC - FMD: Stand is adjacent to Rush Lake. Histosols and aquents, ponded.SCA Rush lake influence.
3	6124 - Lowland Spruce- Fir	Poletimber Medium	4.6	56	51-80	VERY POOR QUALITY. Wet areas. Histosols and aquents pond
5	6112 - Lowland Aspen	Sapling Well	62.6	27	Immature	Stand contains conifer component. Richter-Algonquin complex.
6	42200 - Natural White Pine	Sawtimber Well	9.8	90	111-140	PROVIDES STRUCTURAL DIVERSITY AND SEED TO SURROUNDING STANDS. Morgan Lake loamy sand.
7	6112 - Lowland Aspen	Poletimber Well	60.0	39	111-140	SOME SMALL CLUMPS OF SAWLOG PINE. Morgan Lake loamy sand.
8	6112 - Lowland Aspen	Poletimber Well	32.6	36	201+	There is larger aspen in very wet areas of the stand. Morgan Lake loamy sand.
9	6112 - Lowland Aspen	Poletimber Well	21.5	32	141-170	Some white pine saw in overstory, A3 in upland areas. AU Gres sand.
10	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.4	133	111-140	Poor quality hardwoods, adjacent to private, good to have this variability even though it is a small area. Thin when stand 8 is mature. Millersburg-Klacking-Graycalm complex.
11	6120 - Lowland Cedar	Sawtimber Well	12.1	121	81-110	VERY WET-POOR QUALITY. SOME HEMLOCK, XL white pine in north west corner of stand. Tawas-Lupton mucks. SCA
14	4130 - Aspen	Poletimber Well	40.8	53	81-110	Annalake loamy fine sand
15	4130 - Aspen	Sapling Well	114.8	6	Immature	OPIC - FMD: Pockets of A4 but mostly A6, cut now to cut off the top of the aspen curve. Leave oak. Not as much oak in the east. Aspen is the species that is expected to regenerate but regeneration of any species is welcome.----clearcut 2010- 54-010-08-01
16	4130 - Aspen	Poletimber Well	62.6	49	111-140	FORMER WP STAND. MANY LARGE STUMPS. Damp ground in places, more w.p. in understory in east. Millersburg-Klacking-Graycalm complex.
17	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.0	73	111-140	Small oak stand, some areas of thick w.p. in u.s.
18	4130 - Aspen	Poletimber Poor	4.2	32	81-110	OPIC - FMD: Some conifer. Millersburg-Klacking-Graycalm complex.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	10.8	111	51-80	
20	4134 - Aspen, Spruce/Fir	Poletimber Well	30.5	29	201+	Mostly A3, some A4 in spots. Chinwhisker sand.
21	429 - Mixed Upland Conifers	Poletimber Well	7.1	35	111-140	Pockets of large oak, red pine and white pine.
22	4131 - Aspen, Oak	Sawtimber Medium	23.6	54	141-170	
23	42110 - Planted Red Pine	Sawtimber Well	21.4	55	111-140	Row thinned, 2000, sale 26-98. Klacking sand.
24	4130 - Aspen	Poletimber Medium	25.6	46	141-170	The XL oak is dying off.
25	42220 - Natural Jack Pine	Poletimber Medium	19.6	46	111-140	
26	4130 - Aspen	Sawtimber Medium	32.2	53	111-140	
27	4130 - Aspen	Poletimber Medium	12.5	45	111-140	SEVERAL RP SAWLOG CLUMPS.
29	4130 - Aspen	Poletimber Well	69.3	42	1-50	
31	42210 - Natural Red Pine	Poletimber Well	5.5	113	51-80	OPIC - FMD: No access, SCA riparian management, Rush Lake influence. Tawas Lupton muck
32	4122 - Oak, Pine	Poletimber Well	11.5	81	81-110	OPIC - FMD: Good mix, difficult access (private). After following BMP's, not too much to cut. More conifer in north. Melita sand. Any mix of regeneration is acceptable. Rush Lake SCA riparian management
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	5.0	96	1-50	OPIC - FMD: Tawas Lupton muck. SCA riparian management
34	42220 - Natural Jack Pine	Poletimber Well	4.6	86	51-80	OPIC - FMD: ACCESS DIFFICULT DUE TO SURROUNDING SUBDIVISION. WETLAND WEST SIDE. Steep slope. Millersburg-Blue Lake complex. Any mix of regeneration is acceptable. SCA riparian management
35	4121 - Oak, Aspen	Sawtimber Medium	8.7	96	51-80	OPIC - FMD: ACCESS DIFFICULT DUE TO SURROUNDING SUBDIVISIONS. Survey line in. Tawas Lupton muck. Any mix of regeneration is acceptable. SCA riparian management.
36	4136 - Aspen, Mixed Conifer	Sapling Well	18.8	31	Immature	White pine seedlings adjacent to strand on west side.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	42210 - Natural Red Pine	Sawtimber Well	10.5	132	111-140	Natural stand of white and red pine, visible from Co. Rd. 622. Tawas Lupton muck
38	4133 - Aspen, Mixed Pine	Poletimber Well	9.1	43	111-140	fire scares on large white and red pine.
39	42210 - Natural Red Pine	Sawtimber Well	2.1	85	1-50	
40	4123 - Red Oak	Sawtimber Medium	3.3	70	51-80	
42	42210 - Natural Red Pine	Sawtimber Well	1.9	79	111-140	NATURAL STAND. Near RUSH LAKE SHORELINE. POOR ACCESS. SCA Rush Lake influence. Otisco mucky sand.
43	6112 - Lowland Aspen	Sawtimber Well	1.9	88	111-140	OPIC - FMD: INTERGRADES INTO CEDAR SWAMP. POOR QUALITY. POOR ACCESS. 30 SQ FT ASPEN. SCA Rush Lake influence. Otisco mucky sand.
44	42200 - Natural White Pine	Sawtimber Well	3.2	81	111-140	Difficult access through state.
45	42110 - Planted Red Pine	Sawtimber Well	8.4	55	141-170	Row thinned, 2000, sale 26-98. Klacking sand.
47	42200 - Natural White Pine	Sawtimber Well	2.6	106	111-140	
48	42290 - Natural Mixed Pine	Sawtimber Well	1.5	73	111-140	PROVIDES STRUCTURAL DIVERSITY AND SEED TO SURROUNDING STANDS. Morgan Lake loamy sand.
49	6120 - Lowland Cedar	Sawtimber Medium	3.8	121	81-110	Blow down present in the stand. There are some white pine and northern white cedar that reach and surpass 24 inches in diameter.
51	6120 - Lowland Cedar	Poletimber Medium	2.5	121	1-50	Otisco mucky sand. SCA Rush Lake influence
56	412 - Oak Types	Poletimber Well	2.4	81	81-110	OPIC - FMD: Good mix, difficult access (Have to go through Q type and private). After following BMP's, not too much to cut. SCA riparian management.
57	6124 - Lowland Spruce-Fir	Poletimber Medium	5.9	66	81-110	OPIC - FMD: Swamp hardwoods w/swamp conifer along edges. Tawas-Lupton mucks
59	4130 - Aspen	Poletimber Well	8.9	46	81-110	
60	42290 - Natural Mixed Pine	Sawtimber Well	1.8	70	51-80	PROVIDES STRUCTURAL DIVERSITY AND SEED TO SURROUNDING STANDS. Swamp conifer along edges. Millersburg-Klacking-Graycalm complex.

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Report 7 – Forested Stands

Compartment: 73
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	6127 - Lowland Pine	Sawtimber Well	2.5	116	81-110	PROVIDES STRUCTURAL DIVERSITY AND SEED TO SURROUNDING STANDS. Swamp conifer along edges. Need road closures.
64	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.3	96	1-50	OPIC - FMD: Tawas Lupton muck. SCA riparian management.
65	6121 - Tamarack	Poletimber Medium	2.2	66	51-80	
66	42210 - Natural Red Pine	Sawtimber Medium	4.2	84	81-110	PROVIDES STRUCTURAL DIVERSITY AND SEED TO SURROUNDING STANDS. Morgan Lake loamy sand.
67	6120 - Lowland Cedar	Poletimber Well	0.8	121	141-170	OPIC - FMD: Difficult access. SCA Rush Lake influence zone.
70	42210 - Natural Red Pine	Sawtimber Well	1.0	121	141-170	This is a small stand of red pine on a more upland site compared to the surrounding stands. This stand provides good structural diversity for the area.
72	429 - Mixed Upland Conifers	Sawtimber Poor	5.6	58	51-80	SCA Rush Lake influence zone. Histosols and aquents pond
76	42220 - Natural Jack Pine	Poletimber Well	2.8	46	111-140	
77	6127 - Lowland Pine	Poletimber Well	3.2	40	201+	SCA Rush Lake influence zone. Histosols and aquents pond
78	6112 - Lowland Aspen	Sapling Poor	5.4	33	Immature	SCA Rush Lake influence zone. Histosols and aquents pond
85	4139 - Aspen, Mixed Deciduous	Sapling Poor	4.2	36	1-50	
96	612 - Lowland Coniferous Forest	Poletimber Poor	3.6	92	Unspecified	OPIC - FMD: SCA Rush Lake influence, near dam. Tawas Lupton muck
405	42210 - Natural Red Pine	Sapling Medium	0.8	10	Immature	Richter-Algonquin complex.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	330 - Low-Density Trees	0.4	No	Natural regeneration. mostly red pine with jack pine and white pine present.
12	6229 - Mixed lowland shrub	26.3	No	OPIC - FMD: sca Rush Lake influence, east side. Histosols and aquents, ponded.
13	622 - Lowland Shrub	3.5	No	SCA Rush Lake influence zone. Histosols and aquents pond
28	123 - Other High Intensity Urban	1.4	No	TRANSFER SITE. USE PERMIT TO MONTMORENCY TOWNSHIP. PUBLIC DRIVES AROUND GATE. BERMS AT EAST END HAVE BEEN BREACHED. Klacking sand
30	622 - Lowland Shrub	28.4	No	OPIC - FMD: SCA Rush Lake influence, near dam. Tawas Lupton muck
52	6229 - Mixed lowland shrub	1.3	No	OPIC - FMD: sca Rush Lake influence, west side by house. Tawas-Lupton muck.
63	622 - Lowland Shrub	8.1	No	Histosols and Aquents ponded
80	6239 - Mixed Emergent Wetland	4.5	No	OPIC - FMD: Rush Lake association SCA, this stand was established in association with harvesting operations in stand 1 and its proximity to Rush Lake. Ocqueoc sand.
82	330 - Low-Density Trees	1.4	No	Need survey to find corner
83	6229 - Mixed lowland shrub	13.1	No	SCA Rush Lake influence zone. Histosols and aquents pond
87	623 - Emergent Wetland	1.3	No	SCA Rush Lake influence zone. Histosols and aquents pond
98	500 - Water	72.4	No	
129	710 - Sand, Soil	1.7	No	OLD DUMP AND TRANSFER SITE. Has now become a scramble area for orvs
155	3102 - Grass	1.5	No	
407	3102 - Grass	1.7	Yes	OPIC - FMD: IMPROVED OPENING Morgan Lake loamy sand.
409	3102 - Grass	1.4	Yes	OPIC - FMD: Richter-Algonquin complex. Improved opening.
411	3102 - Grass	1.4	Yes	OPIC - FMD: Richter-Algonquin complex. Improved opening
458	3102 - Grass	1.0	No	OPIC - FMD: IMPROVED OPENING. Morgan Lake loamy sand.