



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54020

Entry Year 2019

Acreage: 994

County Montmorency

Management Area: Rattlesnake Hills

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**Revision Date:** 2017-05-24

**Stand Examiner:** Ryan Zimmerman

**Legal Description:**

T30N, R01E Section 4 NE1/4, Section 3, Section 2 NW1/4 and S1/2

**Identified Planning Goals:**

**Soil and topography:**

This is a very hilly area with steep slopes. Also contains lowland areas with streams.  
(AFO)

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

Oil and gas well sites are scattered throughout the compartment. Surrounding private ownership is mostly used as hunting property.

**Unique Natural Features:**

This has a larger stand of Cedar with streams running through it. Surrounded by higher elevation areas dominated by hardwoods.

**Archeological, Historical, and Cultural Features:**

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

Make sure no timber harvesting takes place within 150 feet of streams.

**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 elk and black bear. This compartment also contains the Green Swamp ERA, which provides essential habitat to species such as the eastern massasauga rattlesnake. Habitat components of aspen and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include elk, white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

**Mineral Resource and Development Concerns and/or Restrictions**

Sections 2-6, T30N R1E, Montmorency County

There is no metallic mineral potential in this part of the state. The nearest sand/gravel pit is located more than two miles to the south. Sand and gravel potential appears to be good within the compartment. Most of the state minerals in the compartment are currently leased and held by production. Production consists of oil and gas from the Silurian Guelph (Niagaran) reefs and the Antrim Shale.

**Vehicle Access:**

Minimal vehicle access in this area.

**Survey Needs:**

**Recreational Facilities and Opportunities:**

**Fire Protection:**

**Additional Compartment Information:**

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

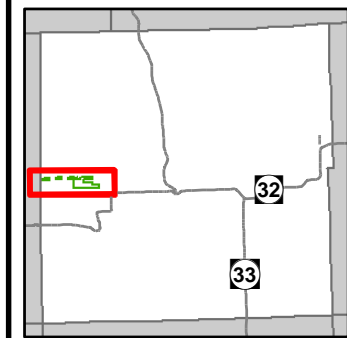
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

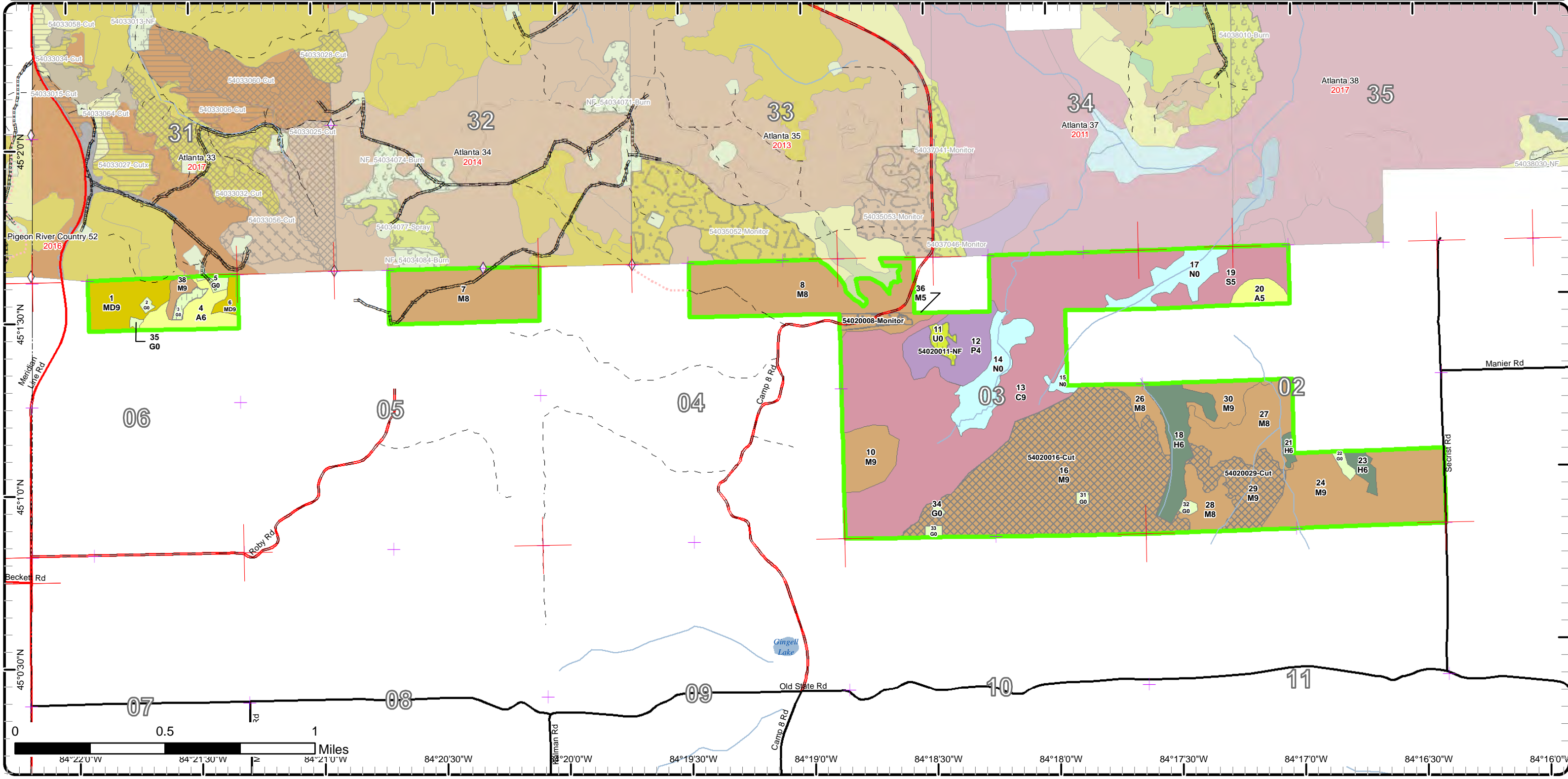
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

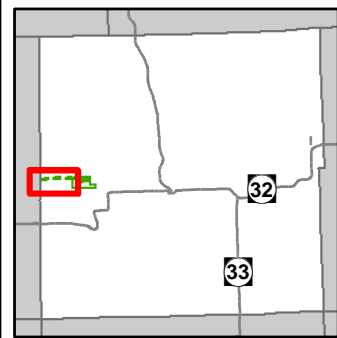
Compartment: 20  
 T30N, R01E, Sec: 2-6  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Rattlesnake Hills  
 YOE: 2019  
 Acres: 993.7 GIS Calculated  
 Examiner: Ryan Zimmerman  
 Map Revised: 10/3/2017  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
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- Horse Trails
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- Compartment Boundary
- Selection (Group, Single Tree)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland
- Lakes

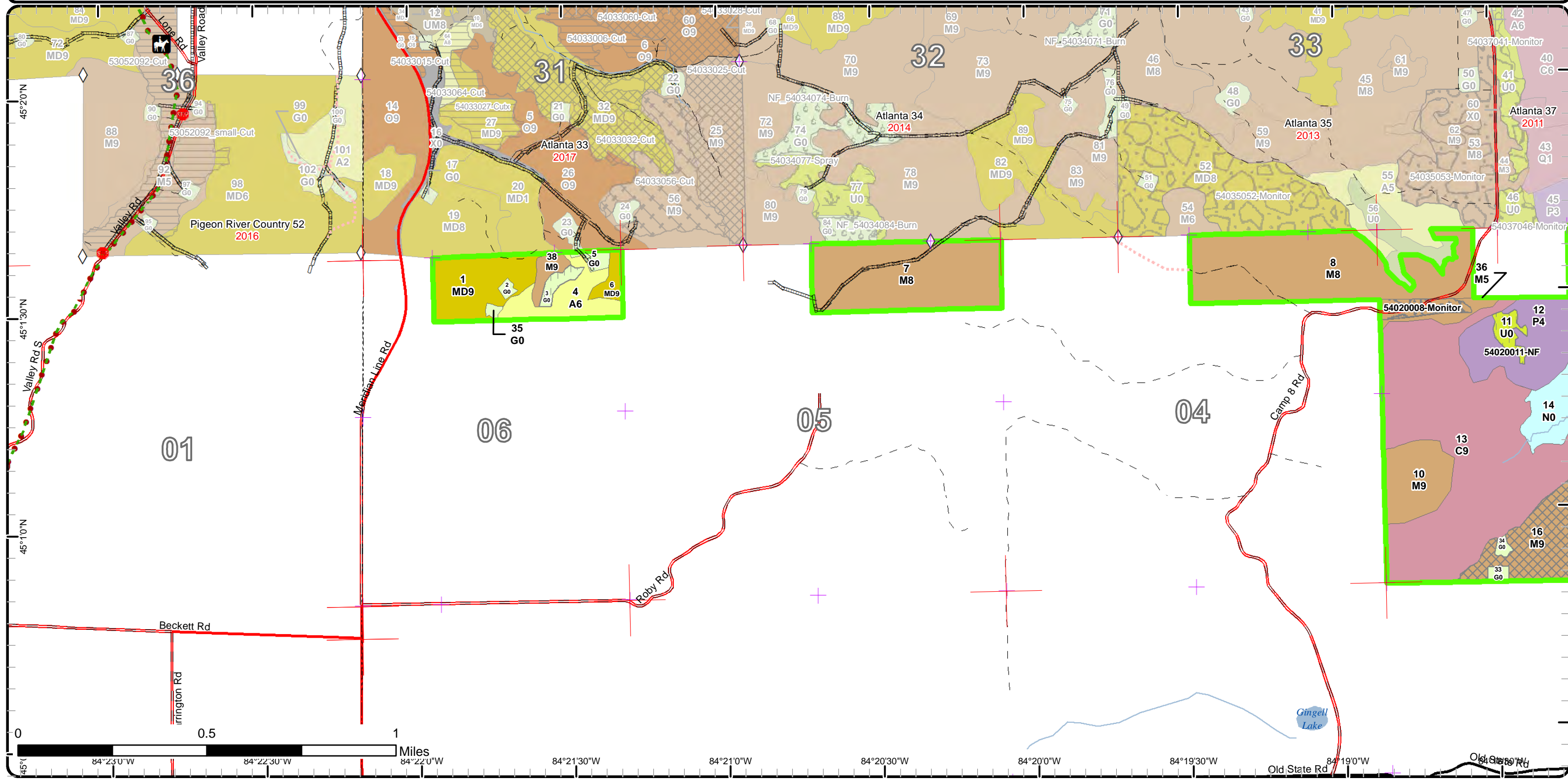


# Cover Type & Treatments Map



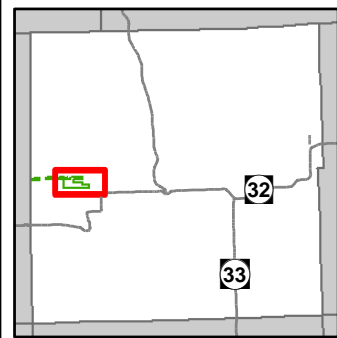
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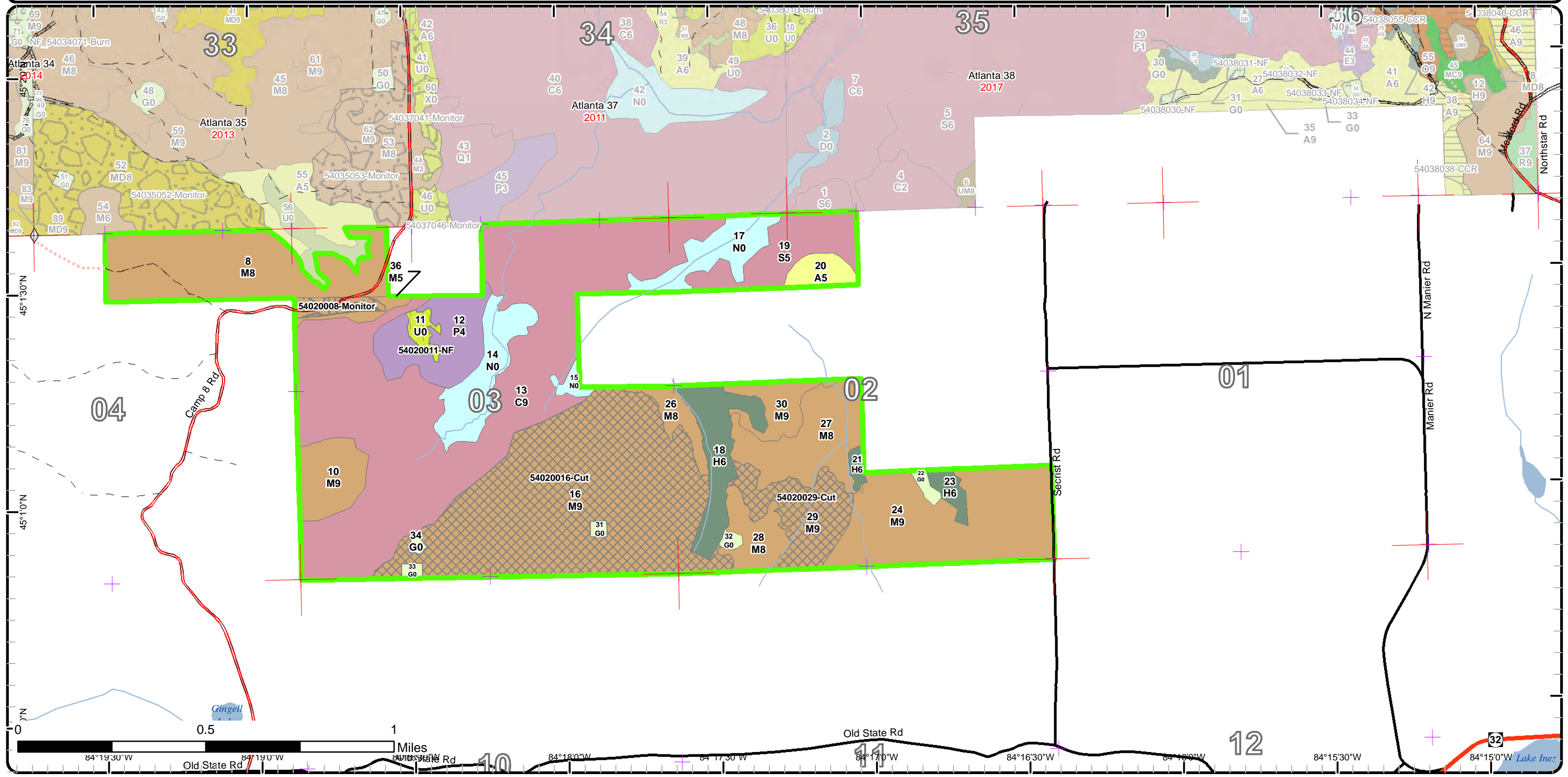


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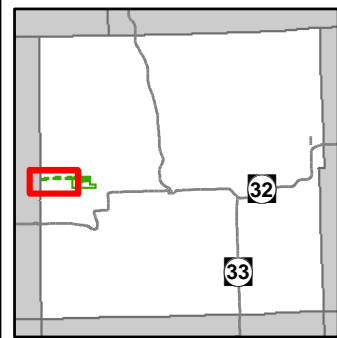
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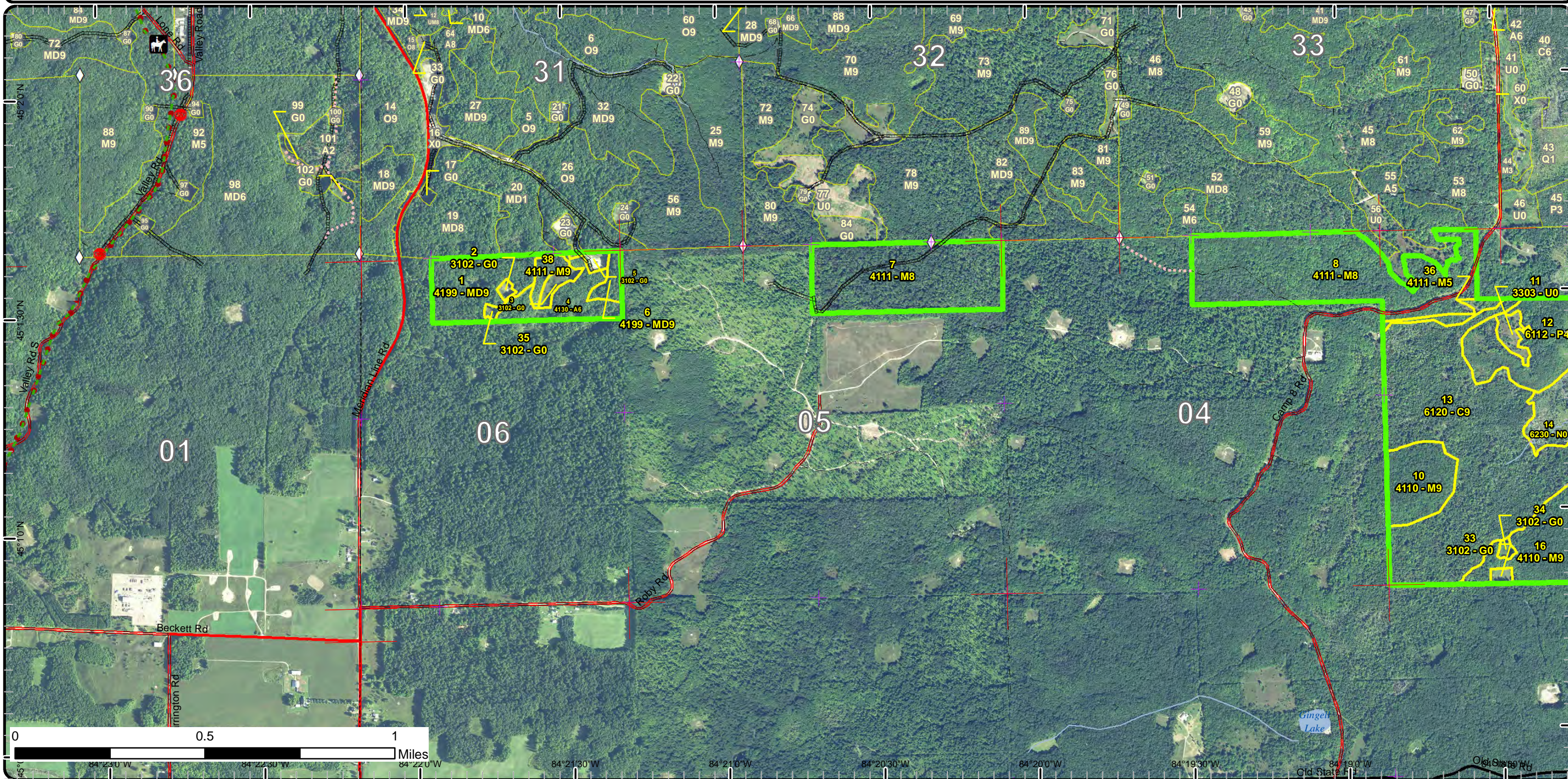


# Stand Boundary Map

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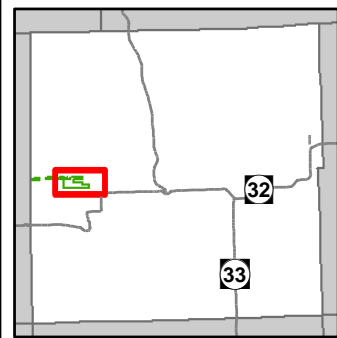
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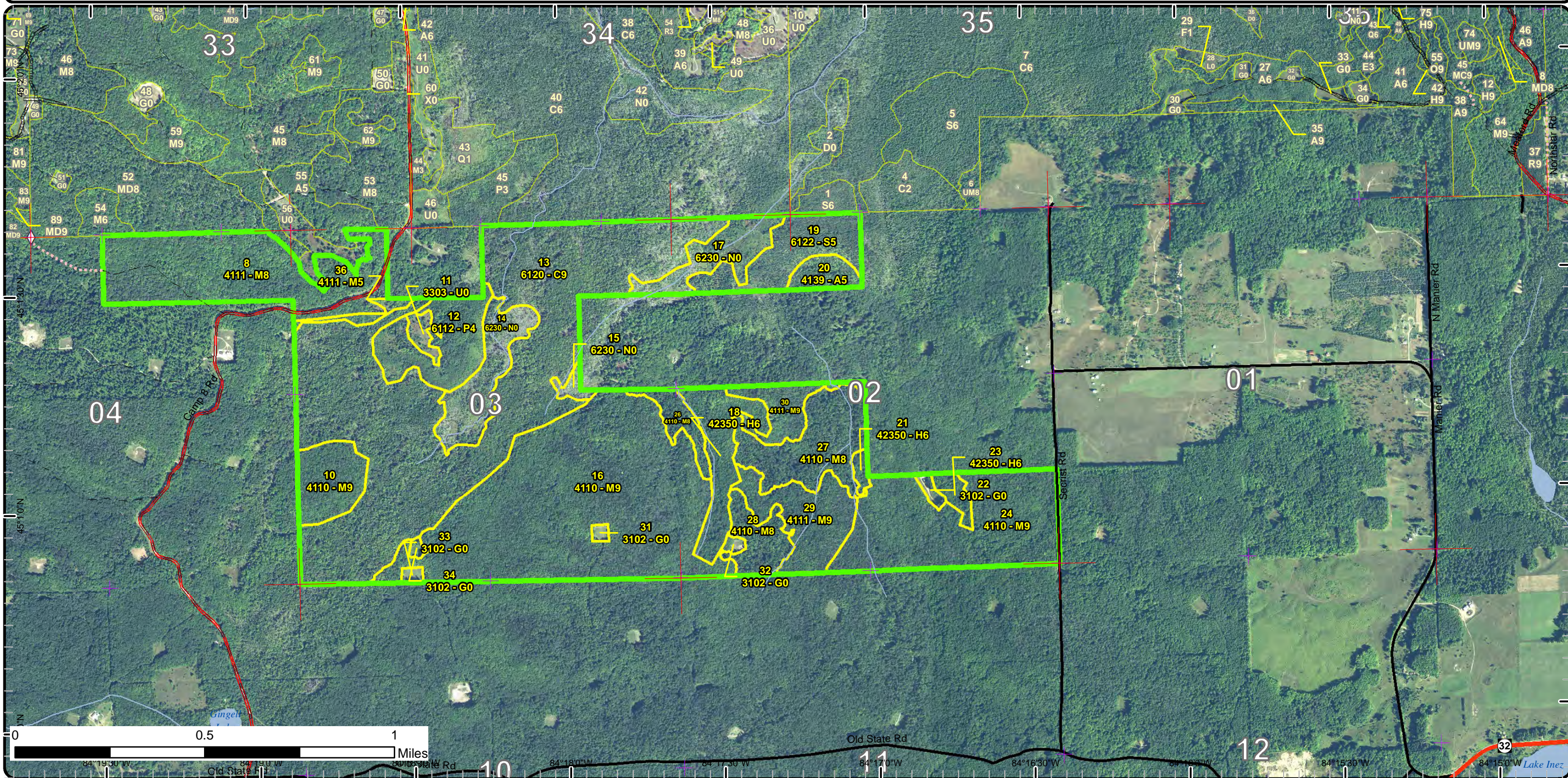


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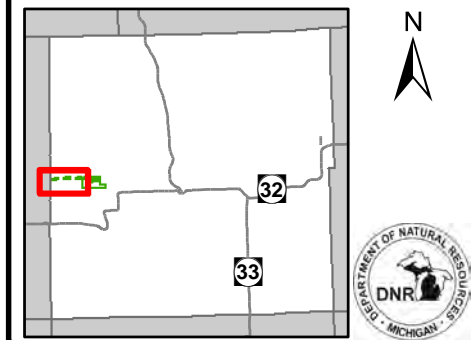
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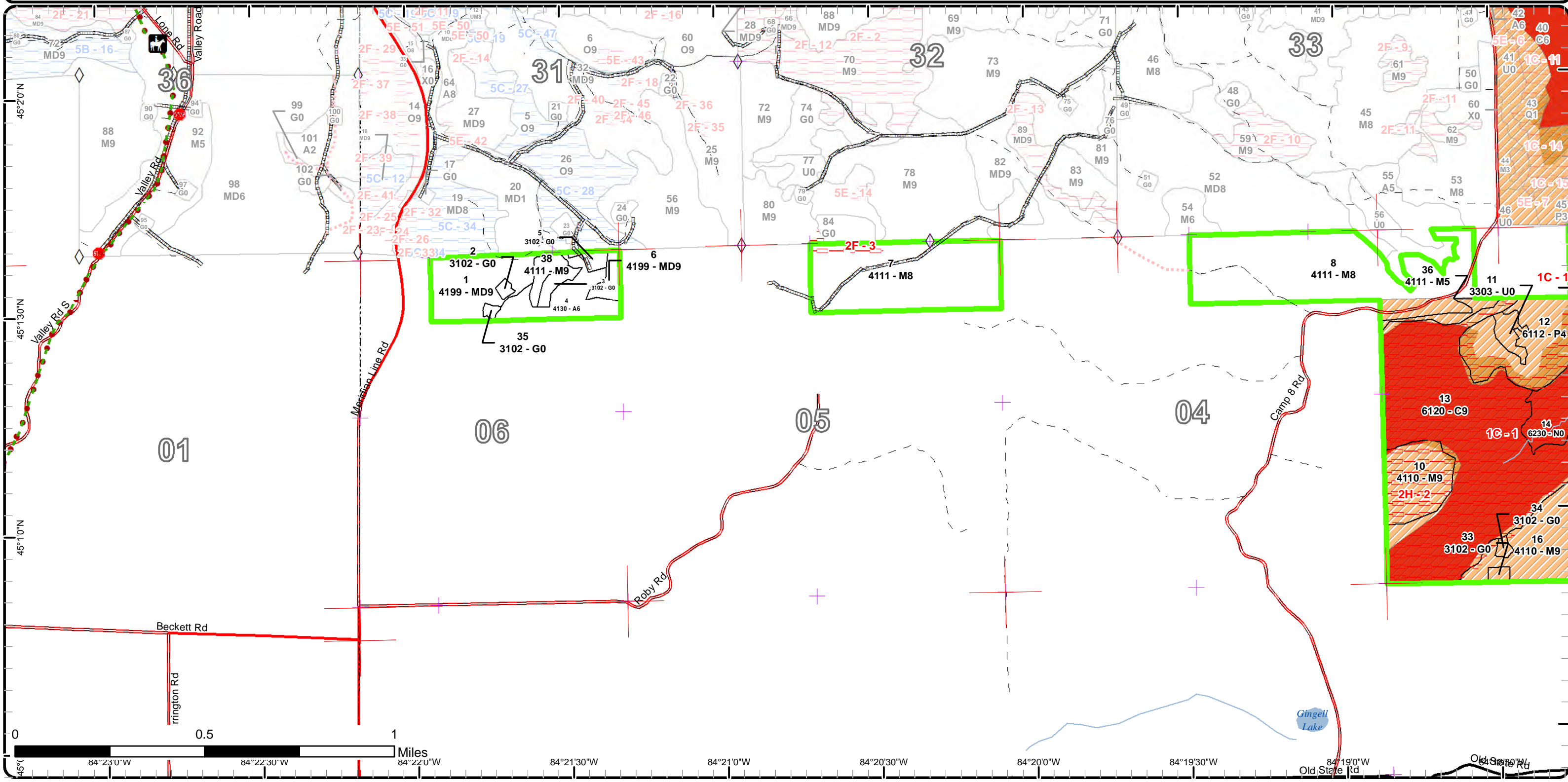


# Special Conservation Areas & Site Conditions Map

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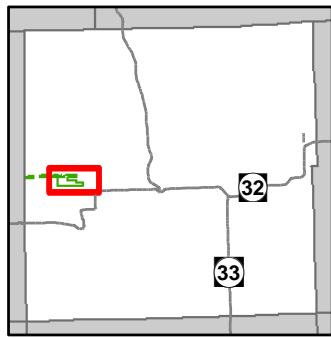
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- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Ecological Reference Areas
- Eastern Massasauga Managed Land
- Forest Habitat Core Interior
- Cold Water Streams



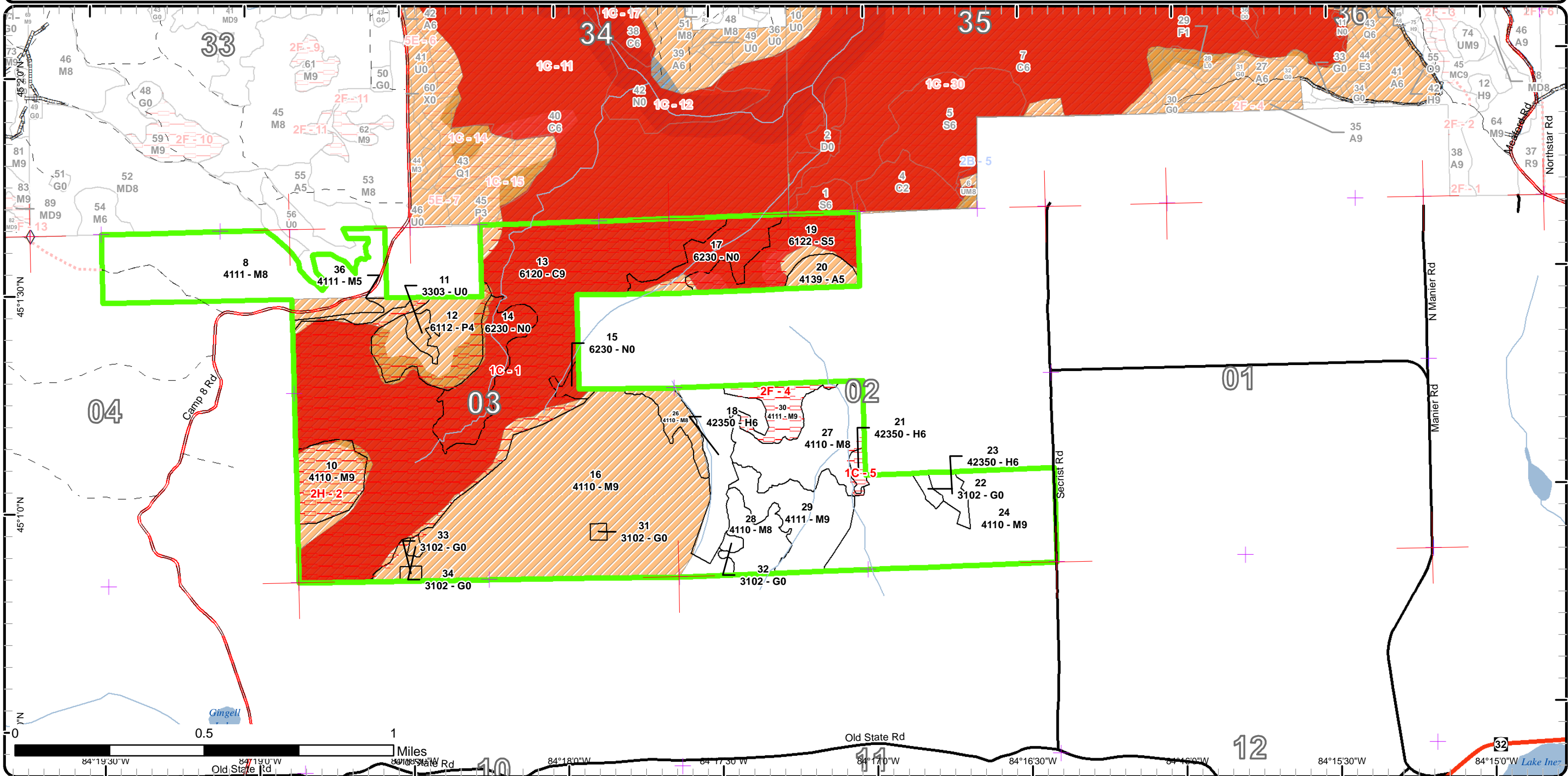


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- Cold Water Streams
- High Priority Trout Stream Buffer





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

Atlanta Mgt. Unit

Compartment 20

Year of Entry 2019

Ryan Zimmerman : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Cedar	0	0	0	0	0	0	0	0	0	0	0	239	0	0	0	0	0	0	239
Hemlock	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	34
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	29
Marsh	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	4	0	86	449	0	0	0	0	0	0	0	539
<b>Total</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>115</b>	<b>511</b>	<b>239</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>993</b>





## Report 2 – Treatment Summary

Atlanta Mgt. Unit  
Year of Entry: 2019

Acres of Harvest

Compartment 20  
Total Compartment Acres: 994

Commercial Harvest - 212  
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
Northern Hardwood		0	212	0	0	0	0	0	0	0	212
	<b>Total</b>	<b>0</b>	<b>212</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>212</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		212	0	0	0	0	6	0	7		225
Next Step		0	0	0	0	0	212	180	0		392
	<b>Total</b>	<b>212</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>218</b>	<b>180</b>	<b>7</b>		<b>617</b>





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
3	54020003-NF	3.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Opening will be maintained on an ongoing 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: 10/01/2018

8	54020008-Monitor	6.4	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	88	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Check regen during next inventory

Specs:

Next Step

Treatments:

Acceptable mixed hardwoods

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2020

11	54020011-NF	4.4	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	330 - Low- Density Trees		Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Opening will be maintained on an ongoing 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: 10/01/2018

16	54020016-Cut	180.1	4110 - Sugar Maple Association	Sawtimber Well	94	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Salvage beech and thin down to 80 BA. Mark 1 beech tree every 2 acres to leave as a mast producing tree. Mark in yellow paint to avoid confusion with previous marked sale that was uncut within the stand.

Specs:

Next Step Other, Other; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration would be a mix of maple, oak, and beech.

Regen:

Other Area has steep slopes throughout. Do not mark trees on the steep slopes (over 40%).

Comment:

Proposed Start Date: 10/01/2018





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
29	54020029-Cut	31.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Remove beech and thin down to 80 BA. Mark 1 beech tree every 2 acres to leave as mast producing trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration would be a mix of maple, oak, and beech.

Regen:

Other Stand has steep slopes throughout. Do not mark trees on these slopes (greater than 40%)

Comment:

Proposed Start Date: 10/01/2018

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**Total Treatment  
Acreage Proposed: 225.3**



## Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 20

Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		1C	2F	2H
25	25	0	0	Aspen	0		
239	7	0	232	Cedar	232		
34	31	0	3	Hemlock	3		
14	14	0	0	Herbaceous Openland	0		
4	4	0	0	Low-Density Trees			
31	17	0	14	Lowland Aspen/Balsam Poplar	14		
29	3	0	26	Lowland Spruce/Fir	26		
50	2	0	48	Marsh	48		
28	28	0	0	Mixed Upland Deciduous		0	
539	492	0	46	Northern Hardwood	8	18	20
993	624		369	Total Forested Acres	331	18	20
	63%		37%	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	1C: Other dept or div proc/practices	324	3J: Water quality / BMPs (stream, river, or lake)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Green Swamp ERA and Forest Habitat Core Interior HCVA's. Cold water stream.							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	20	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Upland area surrounded by lowland.							
3	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



# Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 20

Year of Entry: 2019

4	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	1C: Other dept or div proc/practices	4	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 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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



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## Atlanta Mgt. Unit

## Report 7 – Forested Stands

Compartment: 20  
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	24.0	98	81-110	Opening in middle of northern half. All ash in stand is dead.
4	4130 - Aspen	Poletimber Well	16.4	27	Immature	
6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.1	97	81-110	Lower stocking stand that is heavier to oak overall. Hard to tell it was two aged until I started to core some understory trees and noticed there was two age classes.
7	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	58.0	95	51-80	Thinned in 2014
8	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	82.1	88	51-80	Thinned winter of 2017
10	4110 - Sugar Maple Association	Sawtimber Well	21.2	96	111-140	All ash is dead. Rolling hills. Access is questionable in order to harvest. Red maple present on edge of stand. This is a higher elevation area surrounded by lowland.
12	6112 - Lowland Aspen	Poletimber Poor	31.0	23	1-50	All around the edge is very wet. About 60% of the stand is wet. Stocking of stand is variable.
13	6120 - Lowland Cedar	Sawtimber Well	238.9	109	111-140	Stand has multiple streams that run down the middle and on north edge as well as east edge. There is a 5 foot wide bridge that goes over stream on north end to allow access to stand 11. Many areas of blowdown in stand. All along stream in the middle has blowdown as well. Pockets of old blowdown have balsam fir regeneration. Fewer pockets of blowdown have some cedar regeneration as well. Lots of deer and elk activity in this stand.
16	4110 - Sugar Maple Association	Sawtimber Well	180.1	94	111-140	Stand has many steep hills. All ash is dead. Timber sales are setup within the stand, but never cut. Only part of the stand in the SW was cut. Most of the stand is not steep to operate on. Access would be difficult to truck wood within the stand due to slopes. Pockets within the stand depending on where within the slope have different species density. Pockets of mostly maple are in the stand as well as pockets with mostly basswood.
18	42350 - Upland Hemlock	Poletimber Well	26.3	97	111-140	On top of a hill. Hemlock is very dense in spots. More species diversity on the east edge and southern part.
19	6122 - Black Spruce	Poletimber Medium	29.3	86	51-80	Very wet stand. Variable stocking throughout the stand.
20	4139 - Aspen, Mixed Deciduous	Poletimber Medium	8.7	29	81-110	cut on sale 54-057-88-02. Very variable stand. Looks like the cut what they wanted out of the stand and left everything else. Wet on North part where it goes down in elevation.
21	42350 - Upland Hemlock	Poletimber Well	2.5	98	81-110	
23	42350 - Upland Hemlock	Poletimber Well	5.2	97	111-140	On hillside and top of hill. Lots of evidence of deer/elk

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Atlanta Mgt. Unit

## Report 7 – Forested Stands

Compartment: 20  
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>24</b>	4110 - Sugar Maple Association	Sawtimber Well	80.4	94	81-110	Stand was set up and most of it was cut. There were uncut areas and marked trees in the sale that were not cut as well.
<b>26</b>	4110 - Sugar Maple Association	Sawtimber Medium	9.4	94	51-80	Timber Sale "Gated Hardwoods" 54-030-10-01 finished in 2013
<b>27</b>	4110 - Sugar Maple Association	Sawtimber Medium	37.6	94	81-110	Timber Sale "Gated Hardwoods" 54-030-10-01 finished in 2013
<b>28</b>	4110 - Sugar Maple Association	Sawtimber Medium	15.6	94	51-80	Timber Sale "Gated Hardwoods" 54-030-10-01 finished in 2013
<b>29</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	31.4	94	111-140	Ash is all dead. Steep slopes in spots.
<b>30</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	14.9	94	111-140	SE part of stand is a steep slope and the north edge just on the private edge is steep. All ash is dead.
<b>36</b>	4111 - S.Maple, Hard Mast Association	Poletimber Medium	4.1	67	51-80	
<b>38</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	4.1	87	51-80	





Stand	Cover Type	Acres	Managed Site	General Comments:
2	3102 - Grass	1.0	No	Oil well site
3	3102 - Grass	3.0	No	Open grass area with few scattered cherry.
5	3102 - Grass	2.2	No	Oil well site
11	3303 - Mixed Low Density Trees	4.4	No	Mostly open field with scattered trees. Permanent deer blind set up on NE area of stand.
14	6230 - Cattail	25.9	No	Mostly dominated by cattail. Has scattered cedar, spruce and fir. Lots of dead standing trees.
15	6230 - Cattail	3.2	No	This stand has a pocket of phragmites on the NE edge. It also runs into the private land as well. Was unable to identify if it was native or non-native. Lots of standing dead timber. Stream runs through the stand.
17	6230 - Cattail	20.6	No	Lots of standing dead timber. Grassy areas in spots with cattails in the wetter areas. Very similar to stands 14 and 15.
22	3102 - Grass	2.2	No	Oil/gas well site.
31	3102 - Grass	1.2	No	Oil well site
32	3102 - Grass	1.4	No	Oil well site
33	3102 - Grass	1.4	No	Oil well site
34	3102 - Grass	1.1	No	Old landing location
35	3102 - Grass	0.8	No	Old landing location.