



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54044

Entry Year 2019

Acreage: 1,112

County Montmorency

Management Area: Rattlesnake Hills

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**Revision Date:** 2017-05-25

**Stand Examiner:** Richard Barber

**Legal Description:**

T31N, R2E, Sec. 16, 21 & 28.

**Identified Planning Goals:**

Timber management, especially hardwoods.

**Soil and topography:**

Topography is flat to rolling, occasionally steep. Habitat types are predicted to be lowland, PARVHa/PARVVb, and AFO. Mancelona-Millersburg-Blue Lake complex and Tawas muck dominate.

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

This area is mostly state land. There are a few hunting camps and residences in and near the compartment.

**Unique Natural Features:**

One or more have been reported.

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

None Reported.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

No special considerations exist for this compartment.

**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. Habitat components of heavy aspen, hardwood, and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain 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**

There is no metallic mineral potential in this part of the state. Sand/gravel pits are not located in the area, but there is potential on the upland areas. The compartment has been developed for Antrim Shale gas, and all of the state-owned mineral rights are currently leased and held by production.

**Vehicle Access:**

Access is very good.

**Survey Needs:**

Some surveys may be needed for timber sale preparation.

**Recreational Facilities and Opportunities:**

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. Habitat components of heavy aspen, hardwood, and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain 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.

**Fire Protection:**

MDNR and Atlanta VFD

**Additional Compartment Information:**

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

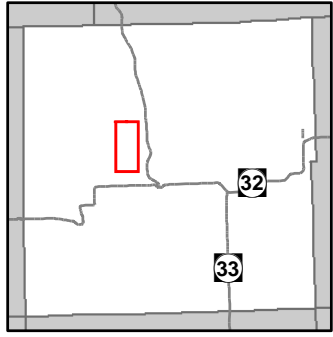
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

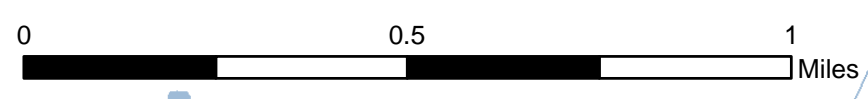
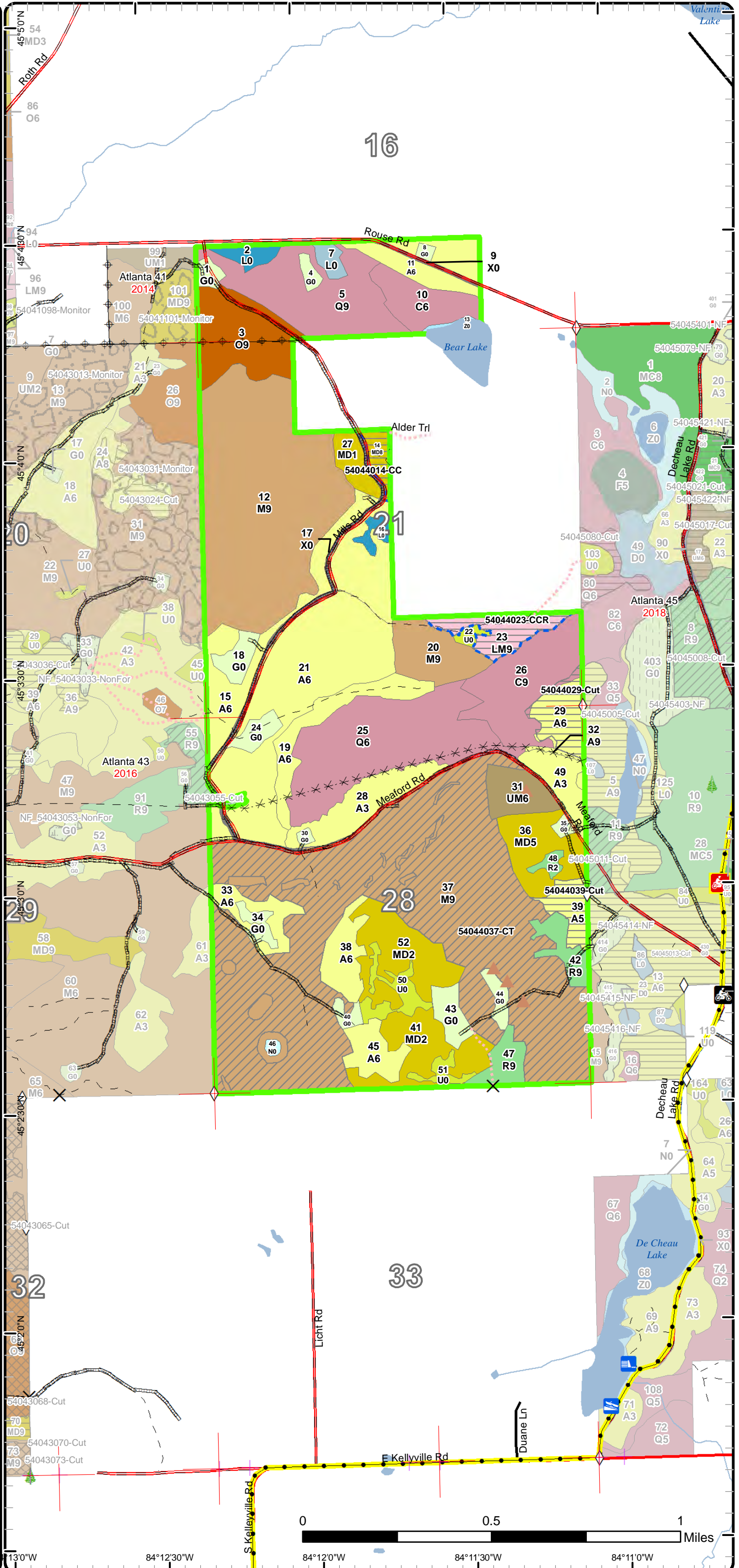
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 44  
 T31N, R02E, Sec: 16, 21, 28  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Rattlesnake Hills  
 YOE: 2019  
 Acres: 1112 GIS Calculated  
 Examiner: Richard Barber  
 Map Revised: 10/4/2017  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- ▲ Berms
- Dams
- Boating Access Site
- Tree (marking)
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Closed
- X Abandoned Railroads
- Streams
- Lakes and Rivers All
- Pipeline
- + Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

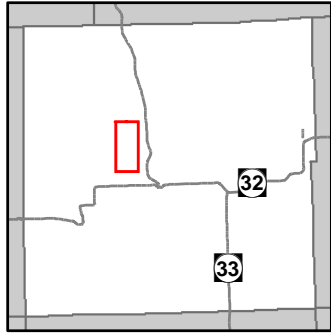


13°0'W 84°12'30"W 84°12'0"W 84°11'30"W 84°11'0"W

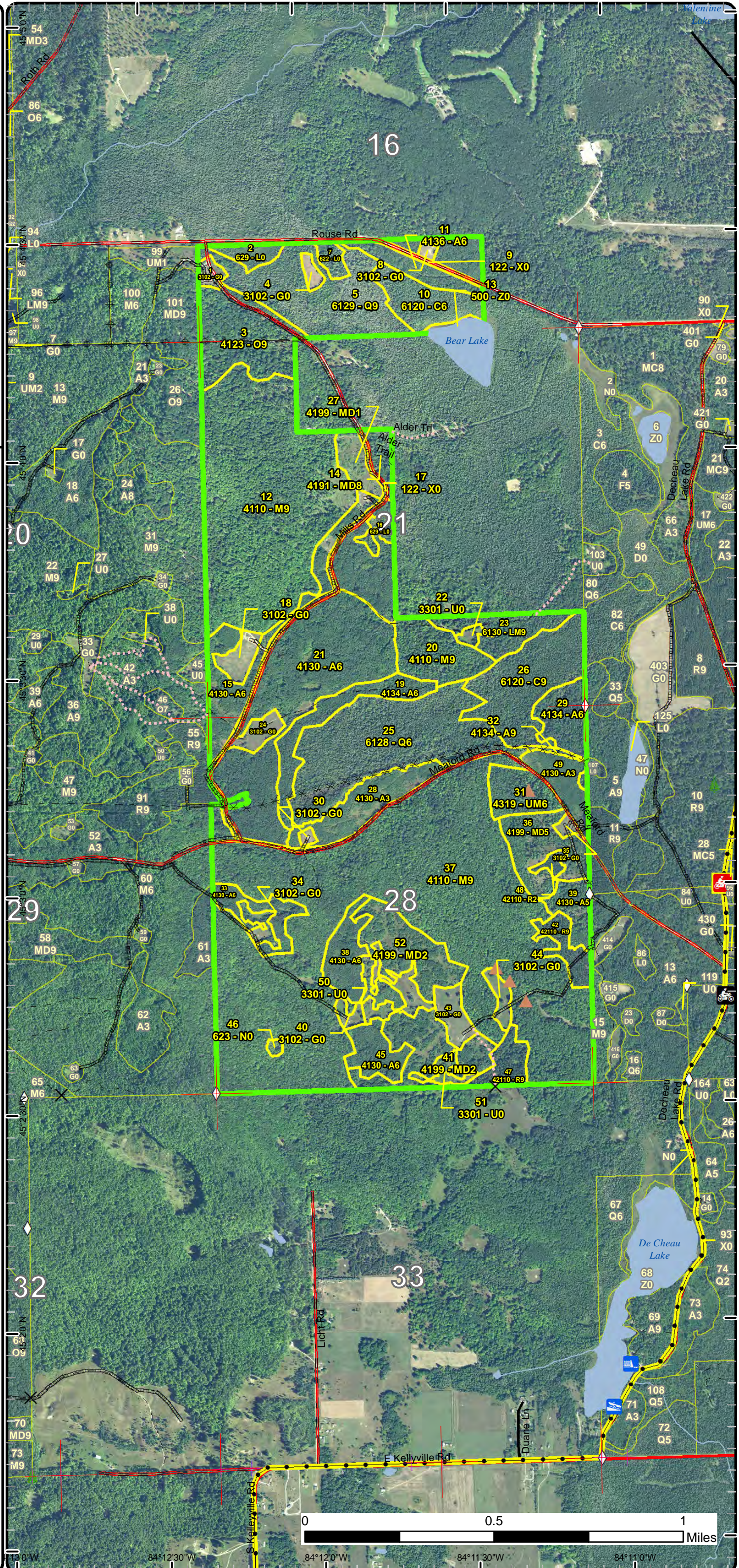


# Stand Boundary Map

Compartment: 44  
 T31N, R02E, Sec: 16, 21, 28  
 County: Montmorency  
 Unit: Atlanta  
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- Miris Corners
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- Motorcycle Trails (SOS License)
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- County Paved Roads
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- Closed
- X Abandoned Railroads
- Streams
- Lakes and Rivers All
- Pipeline
- + Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
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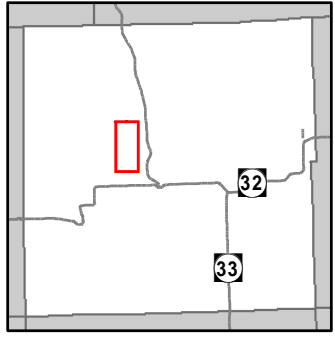


84°12'30"W 84°12'0"W 84°11'30"W 84°11'0"W

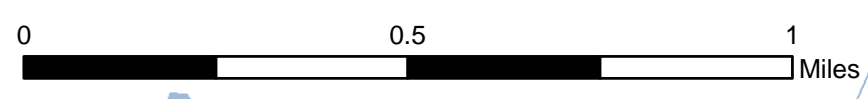
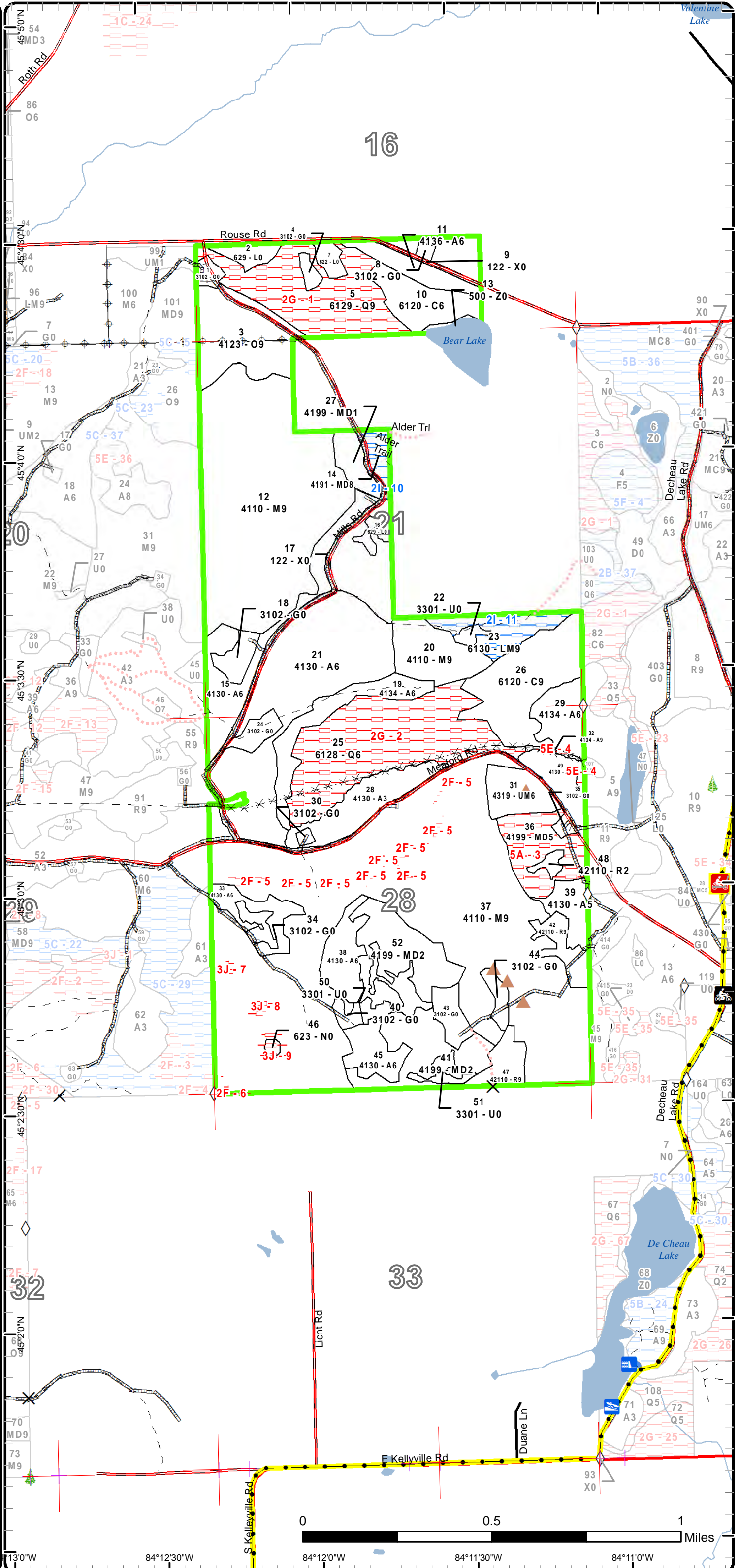


# Special Conservation Areas & Site Conditions Map

Compartment: 44  
 T31N, R02E, Sec: 16, 21, 28  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Rattlesnake Hills  
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- Miris Corners
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- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Closed
- X Abandoned Railroads
- Streams
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Boat Access Site



130°W      84°12'30"W      84°12'0"W      84°11'30"W      84°11'0"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	32	0	100	99	24	0	0	0	0	0	0	0	0	0	0	0	0	255
Cedar	0	0	0	0	0	0	0	0	0	0	0	17	0	0	38	0	0	0	55
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	47	0	0	70	0	0	0	0	116
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Lowland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	8	0	53	0	0	0	0	28	0	0	0	0	0	0	0	0	0	88
Northern Hardwood	0	0	0	0	0	0	0	0	131	311	0	0	0	0	0	0	0	0	442
Oak	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	33
Red Pine	0	0	2	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	13
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>78</b>	<b>40</b>	<b>2</b>	<b>153</b>	<b>99</b>	<b>37</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>192</b>	<b>326</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>108</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1114</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 44

Year of Entry: 2019

Acres of Harvest

Total Compartment Acres: 1,112

Commercial Harvest - 305  
 Harvests with Site Condition - 20  
 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	9	0	0	0	0	0	0	0	0	9
Cedar	14	0	0	0	0	0	0	0	0	14
Lowland Mixed Forest	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	281	0	0	0	281
<b>Total</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>281</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	325	0	0	0	0	0	0	0	0	325
Next Step	0	0	0	0	9	0	44	0	0	53
<b>Total</b>	<b>325</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>378</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
14	54044014-CC	5.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	87	1-50	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription CC. North half of stand may be too wet to harvest.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable fir, basswood, maple, aspen, oak, or birch resulting in a medium or well stocked stand

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

23	54044023-CCR	14.6	6130 - Fir, Aspen, Maple	Sawtimber Well	91		Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription CCR. Include cedar in retention area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable fir, cedar, maple, aspen, or birch resulting in a medium or well stocked stand.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

26	54044029-Cut	14.2	6120 - Lowland Cedar	Sawtimber Well	134		Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription -clearcut

Specs:  
-leave all hemlock and wp, if any is found  
-leave 3-10% in area retention

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable -rm, aspen, fir, pine, and oak of medium to high stocking

Regen:

Other

-add treatment with adjacent compartment 45 stand 5/timber sale

Comment:

Proposed Start Date: 10/01/2017

37	54044037-CT	281.4	4110 - Sugar Maple Association	Sawtimber Well	96	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Crown thin to 80 BA. Do not operate on slopes exceeding 40%. Leave 100 foot buffer on vernal ponds and seeps.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

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
39	54044039-Cut	9.3	4130 - Aspen	Poletimber Medium	40		Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary

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

Prescription -clearcut-leave 3-10% in area retention pockets (already excluded- see site conditions layer)-leave scattered under-represented species of  
Specs: pine and oak not to exceed 10 BA

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

Acceptable -aspen, oak, rm, fir, and pine of low to high stocking-if needed, burn areas of low stocking due to elk browse to improve regeneration  
Regen:

Other -add treatment with adjacent compartment 45 stand 13/timber sale

Comment:

Proposed Start Date: 10/01/2017

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**Total Treatment  
Acreage Proposed: 325.2**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

Compartment: 44  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2I	2F	2G	3J	5A	5E	
255	253	0	2	Aspen							2
55	55	0	0	Cedar							
37	37	0	0	Herbaceous Openland							
13	13	0	0	Low-Density Trees							
116	0	0	116	Lowland Conifers			116				
15	0	15	0	Lowland Mixed Forest	15						
12	12	0	0	Lowland Shrub							
1	0	0	1	Marsh				1			
87	60	6	21	Mixed Upland Deciduous	6				21		
442	432	0	10	Northern Hardwood		5		5			
33	18	0	16	Oak			16				
20	20	0	0	Red Pine							
13	13	0	0	Upland Mixed Forest							
10	10	0	0	Urban							
3	3	0	0	Water							
1,112	926	20	165	Total Forested Acres	20	5	131	6	21	2	
	83%	2%	15%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	69	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

Compartment: 44  
Year of Entry: 2019

3	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -area retention for stand 49							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> vernal pond buffer.							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> buffer around vernal ponds.							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> buffer around large seep.							

# Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

Compartment: 44  
Year of Entry: 2019

10	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2I: Survey needed	15	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
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### 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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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## Atlanta Mgt. Unit

## Report 7 – Forested Stands

Compartment: 44  
Year of Entry: 2019

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4123 - Red Oak	Sawtimber Well	33.3	87	81-110	Stand was thinned in Winter 2010/2011. 54-050-09-01 Bear Mill HDWD. Acceptable regen was aspen, oak, maple, or pine.
5	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	46.5	100		
10	6120 - Lowland Cedar	Poletimber Well	17.4	100		
11	4136 - Aspen, Mixed Conifer	Poletimber Well	19.3	28		
12	4110 - Sugar Maple Association	Sawtimber Well	130.7	87	81-110	
14	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	5.7	87	1-50	north half may be too wet to harvest.
15	4130 - Aspen	Poletimber Well	45.6	27		
19	4134 - Aspen, Spruce/Fir	Poletimber Well	18.3	37	Unspecified	
20	4110 - Sugar Maple Association	Sawtimber Well	20.0	96	81-110	Stand was thinned winter 2010/2011. Bear Mill HDWD. 54-050-09-01 Residual BA 80-90. regeneration browsed at 18 to 24 inches.
21	4130 - Aspen	Poletimber Well	80.4	37	Unspecified	
23	6130 - Fir, Aspen, Maple	Sawtimber Well	14.6	91		operable, mostly.
25	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	69.5	134		active beaver
26	6120 - Lowland Cedar	Sawtimber Well	37.5	134		
27	4199 - Other Mixed Upland Deciduous	Sapling Poor	7.5	2	1-50	Acceptable regeneration was maple, oak, pine, fir, basswood.
28	4130 - Aspen	Sapling Well	19.9	7	Immature	Small opening in north eastern corner
29	4134 - Aspen, Spruce/Fir	Poletimber Well	13.4	46		
31	4319 - Mixed Upland Forest	Poletimber Well	13.0	40	51-80	

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## Atlanta Mgt. Unit

## Report 7 – Forested Stands

Compartment: 44  
Year of Entry: 2019

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	4134 - Aspen, Spruce/Fir	Sawtimber Well	1.7	46		Check BCG&A RR grade for evidence of a siding.
33	4130 - Aspen	Poletimber Well	10.7	26		
36	4199 - Other Mixed Upland Deciduous	Poletimber Medium	21.5	82	1-50	Jim Bielecki reported in 2007: "A bit of history here. This stand, twenty years back had a lot of mature white birch that Garlock wanted to regenerate. We did a shelterwood and scarified the area with our JD 740 skidder w/anchor chains. The scarification actually worked quite well, but the elk moved into the area and pretty well annihilated any and all white birch regen. Check FTP C54-462 for more info."
37	4110 - Sugar Maple Association	Sawtimber Well	291.1	96	111-140	
38	4130 - Aspen	Poletimber Well	13.2	26		
39	4130 - Aspen	Poletimber Medium	9.3	40		
41	4199 - Other Mixed Upland Deciduous	Sapling Medium	24.6	25	Immature	
42	42110 - Planted Red Pine	Sawtimber Well	8.9	58	111-140	runs 100 - 140, crowns still released.
45	4130 - Aspen	Poletimber Well	11.3	26		
47	42110 - Planted Red Pine	Sawtimber Well	8.8	58	81-110	
48	42110 - Planted Red Pine	Sapling Medium	2.1	18	1-50	SCARIFIED 1990-NO SIGNIFICANT REPRODUCTION-PLANT RED PINE--agreed to by district biologist and acting area manager.--consider leaving birch or girdling it rather than cutting-- Red pine planted in sparse areas May of 1999.
49	4130 - Aspen	Sapling Well	11.7	7	Immature	Check BCG&A RR grade for evidence of a siding.
52	4199 - Other Mixed Upland Deciduous	Sapling Medium	27.9	25	Immature	





Stand	Cover Type	Acres	Managed Site	General Comments:
1	3102 - Grass	2.9	No	
2	629 - Mixed non-forested wetland	5.1	No	
4	3102 - Grass	2.2	Yes	
7	622 - Lowland Shrub	3.6	No	
8	3102 - Grass	1.1	Yes	
9	122 - Road/Parking Lot	2.1	No	
13	500 - Water	2.9	No	
16	629 - Mixed non-forested wetland	3.4	No	
17	122 - Road/Parking Lot	8.3	No	
18	3102 - Grass	5.9	Yes	
22	3301 - Low Density Deciduous Tree	2.0	No	grassy opening converting to forest
24	3102 - Grass	5.0	Yes	
30	3102 - Grass	1.0	Yes	
34	3102 - Grass	3.8	Yes	
35	3102 - Grass	1.6	Yes	
40	3102 - Grass	2.5	No	
43	3102 - Grass	7.1	Yes	
44	3102 - Grass	4.0	Yes	



Stand	Cover Type	Acres	Managed Site	General Comments:
46	623 - Emergent Wetland	1.0	No	A large seep covered in horsetail and cattail. Scattered white-cedar and dead ash.
50	3301 - Low Density Deciduous Tree	8.1	No	Failed European larch plantation. Scattered ironwood.
51	3301 - Low Density Deciduous Tree	3.4	No	Failed European larch plantation. Scattered ironwood.