



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54036

Entry Year 2018

Acreage: 1,642

County Montmorency

Management Area: Rattlesnake Hills

Revision Date: 2016-06-08

Stand Examiner: Richard Barber

Legal Description:

T31N, R1E, Sections 23, 24 and 26.

Identified Planning Goals:

ERA protection, Rattlesnake conservation and forest age-class redistribution.

Soil and topography:

Lupton-Tawas Association, level, poorly drained organic soils on outwash plains and in glacial drainage ways. Small portions are Mancelona-Millersburg-Blue Lake Association, level to very steep, well drained and somewhat excessively drained, sandy and loamy soils on moraines. The compartment is dominated by the "Green Swamp" a "rich conifer swamp community", this swamp tends to be cedar, with spruce, fir, tamarack and hemlock inclusions along the edge.

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

Several parcels within the compartment boundaries are used as hunting/vacation residences. Antrim gas operations have leveled off within the compartment, eight wells are currently on state land within the compartment, several others are located on private lands.

Unique Natural Features:

None reported

Archeological, Historical, and Cultural Features:

Site are known.

Special Management Designations or Considerations:

Green Swamp ERA. and potential rattlesnake conservation areas

Watershed and Fisheries Considerations:

Rattlesnake Creek is an important tributary for spawning wild brook trout from the East Branch Black River (top quality stream). Enough so that we have enhanced spawning riffles in this stream years ago and still observe them for activity. Logging activities that enhance beaver activity near this stream is unacceptable (not that it is occurring). This stream has presented beaver problems in the past, which hinders fish passage. Maintain appropriate buffers. Tag Alder hinging (for wildlife purposes) could be explored as long as tag regeneration is not promoted in all areas (establishing deep rooted grasses along stream banks).

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

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Devonian Berea Sandstone and Bedford and Antrim Shales. The Bedford and Antrim are quarried for cement products elsewhere in the State. A gravel pit is located in 2.5 miles to the south, but potential is good on the upland areas. Most of this Compartment has been drilled

and is producing gas from the Antrim Shale.

Vehicle Access:

Access is good year round.

Survey Needs:

There may be some needs for timber sale preparation.

Recreational Facilities and Opportunities:

High country pathway traverses through the compartment including a trip to the top of Rattlesnake Hills. Additional recreational use includes big and small game hunting, fishing, and berry picking. Elk and deer viewing is popular in and around this compartment.

Fire Protection:

This compartment is located in the protection area of the Atlanta DNR and the Vienna Township VFD.

Additional Compartment Information:

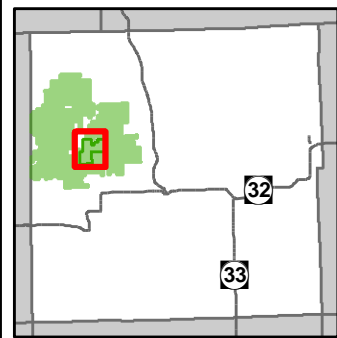
The following reports from the Inventory are attached:

- 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:

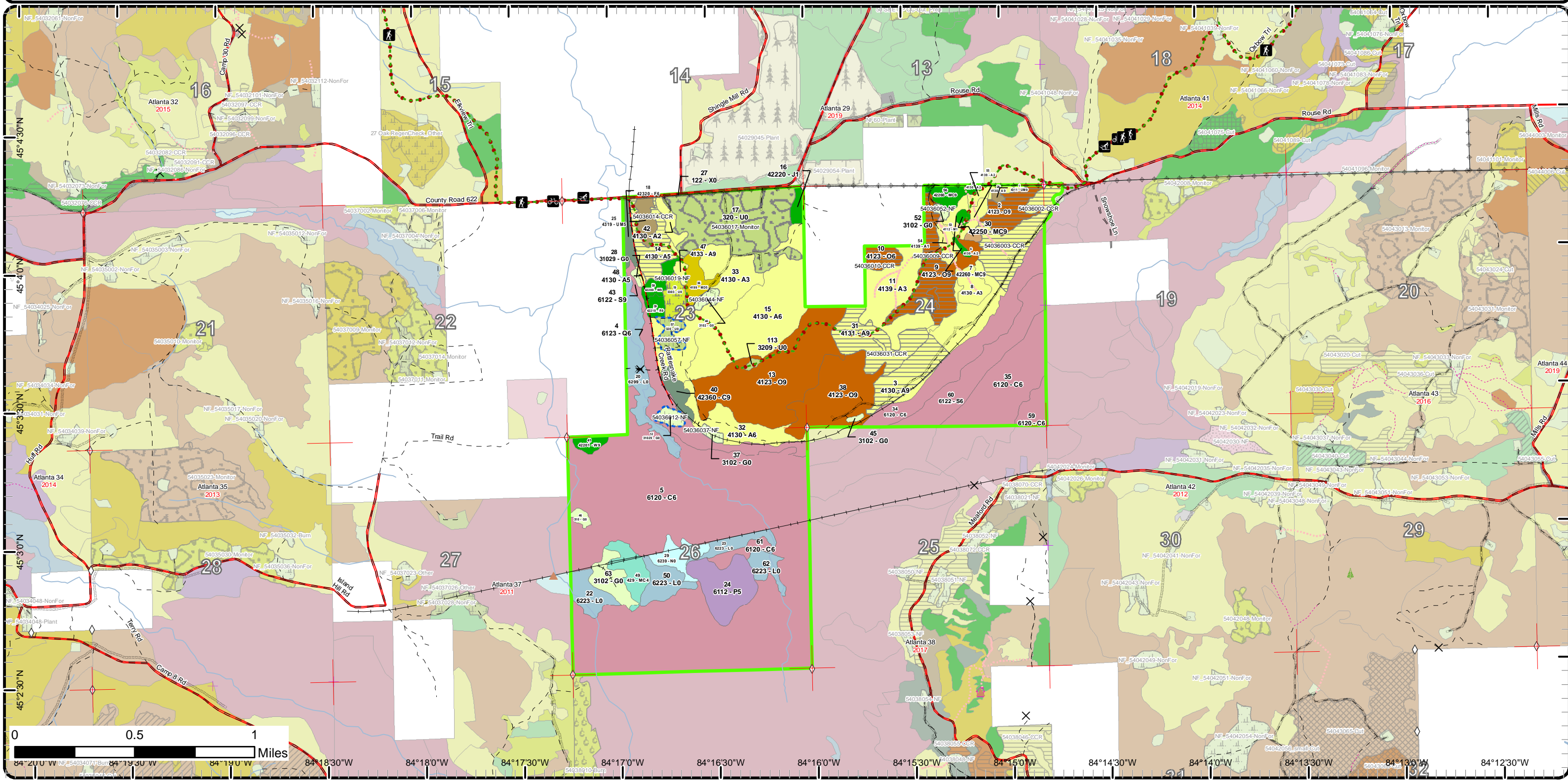
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



Compartment: 36
 T31N, R01E, Sec: 23, 24, 26
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Rattlesnake Hills
 YOE: 2018
 Acres: 1,642 GIS Calculated
 Examiner: Richard Barber
 Map Revised: 10/6/2016
 Map Phase: Post Review

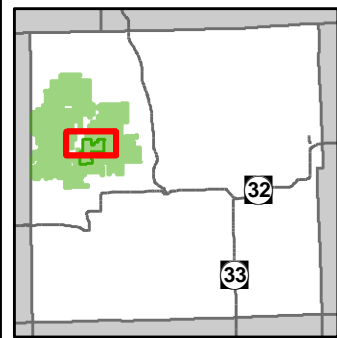
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|---|---|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners ◇ Field Grade GPS Corners ✕ Gate ▲ Berms — Bridges □ Unspecified Structures 🚲 Bike Trails 🚶 Hiking Trails 🏂 Ski Trails — Designated Hiking Trails — Designated Bicycle Trails | <ul style="list-style-type: none"> ● Designated Equestrian Trails — Designated Ski Trails — County Gravel Roads — County Poor Dirt Roads — Closed Roads — Railroads — Pipeline — Powerline □ Compartment Boundary □ Treatments with Site Conditions □ Clearcut (w/Reserves) □ Other Treatment - See Comments □ Opening Maintenance | <ul style="list-style-type: none"> ▨ Regeneration Survey ■ 411 - Northern Hardwood ■ 412 - Oak Types ■ 413 - Aspen Types ■ 419 - Mixed Upland Deciduous ■ 422 - Natural Pines ■ 423 - Other Upland Conifers ■ 429 - Mixed Upland Conifers ■ 430 - Upland Mixed Forest ■ 611 - Lowland Deciduous Forest ■ 612 - Lowland Coniferous Forest ■ 122 - Roads/Parking Lot ■ 310 - Herbaceous Openland ■ 320 - Upland Shrub ■ 330 - Low Density Trees | <ul style="list-style-type: none"> ■ 622 - Lowland Shrub ■ 623 - Emergent Wetland |
|---|---|--|---|



0 0.5 1 Miles

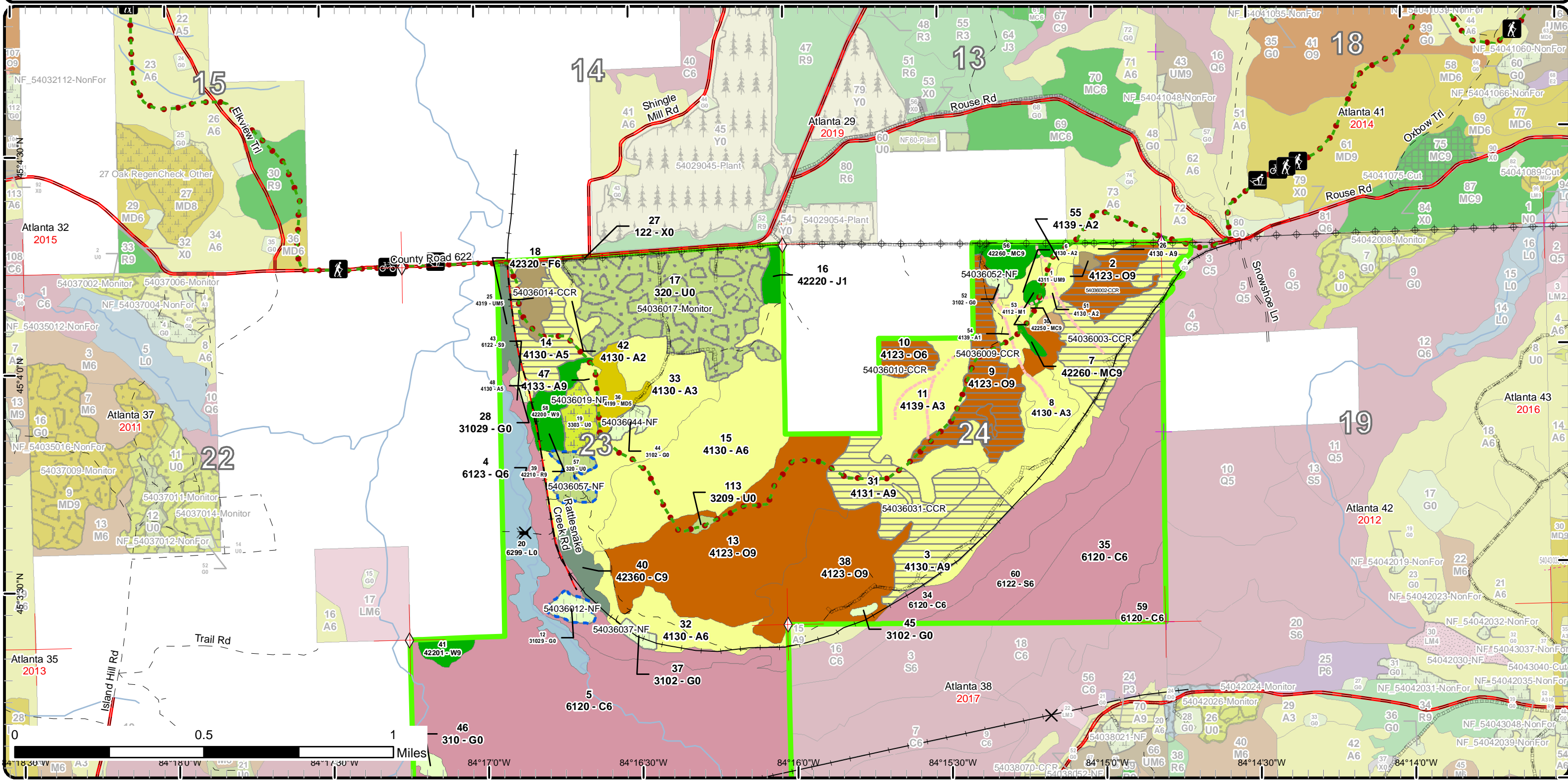
84°20'0"W 84°19'30"W 84°19'0"W 84°18'30"W 84°18'0"W 84°17'30"W 84°17'0"W 84°16'30"W 84°16'0"W 84°15'30"W 84°15'0"W 84°14'30"W 84°14'0"W 84°13'30"W 84°13'0"W 84°12'30"W

Cover Type & Treatments Map

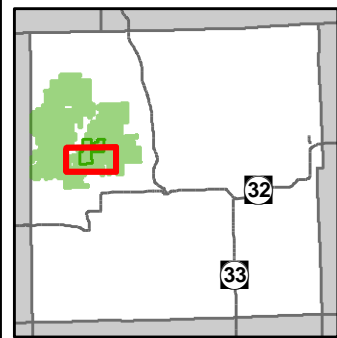


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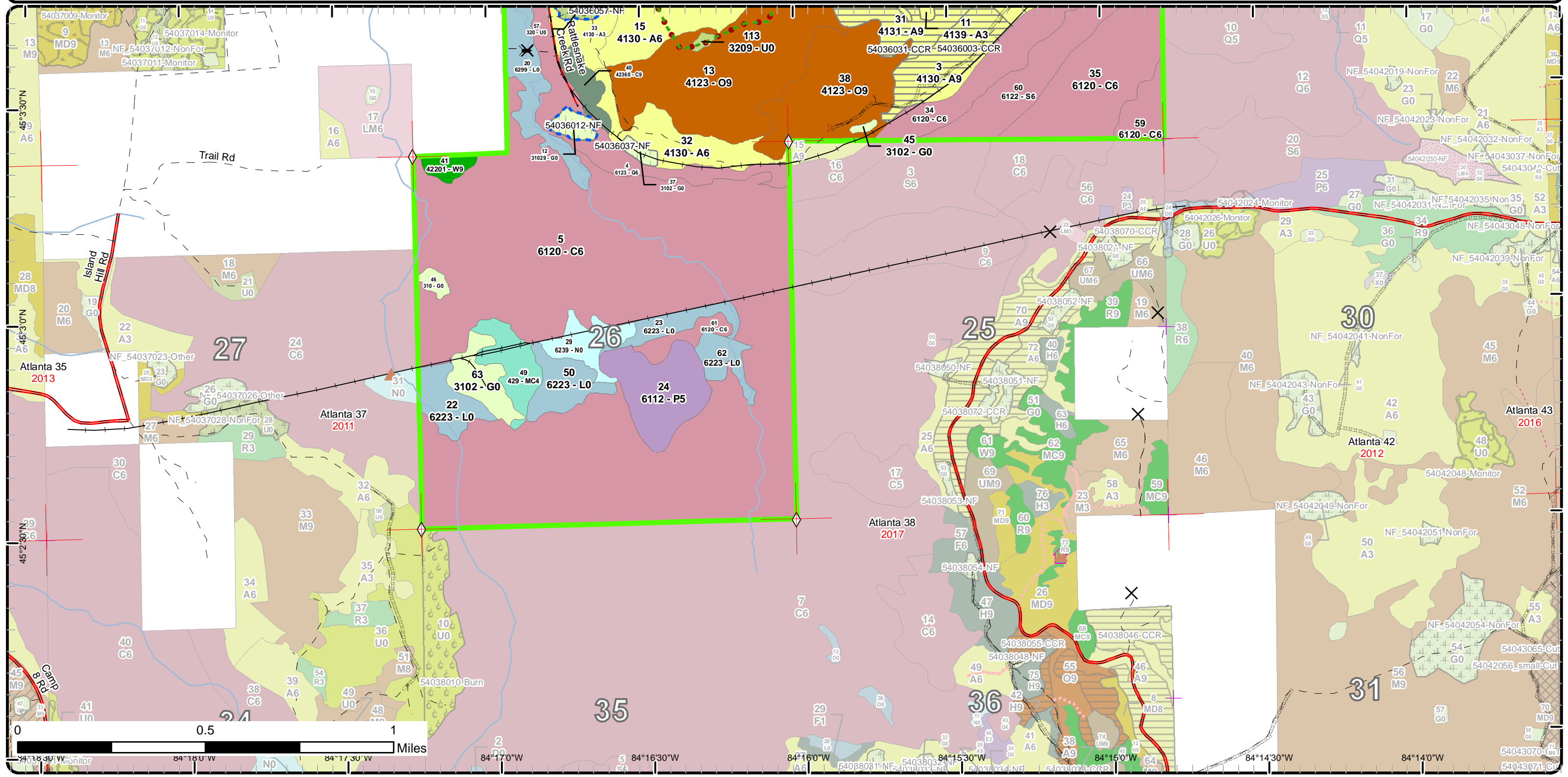


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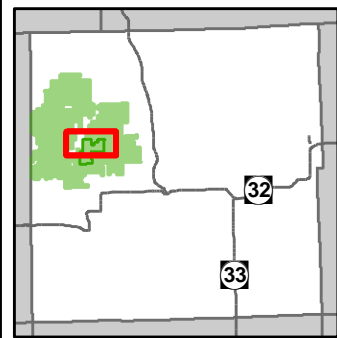


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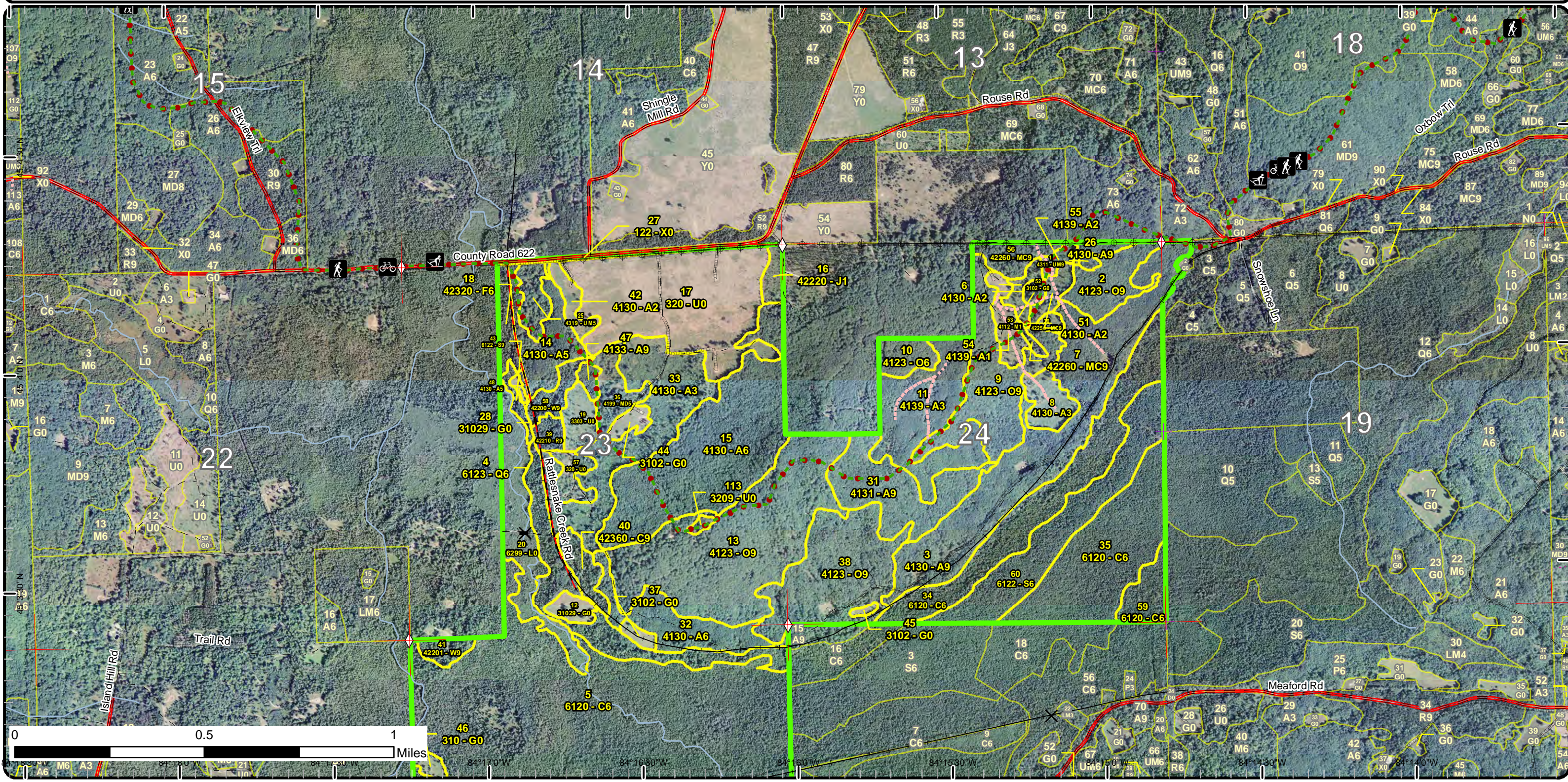


Stand Boundary Map



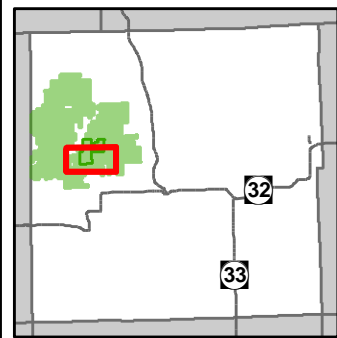
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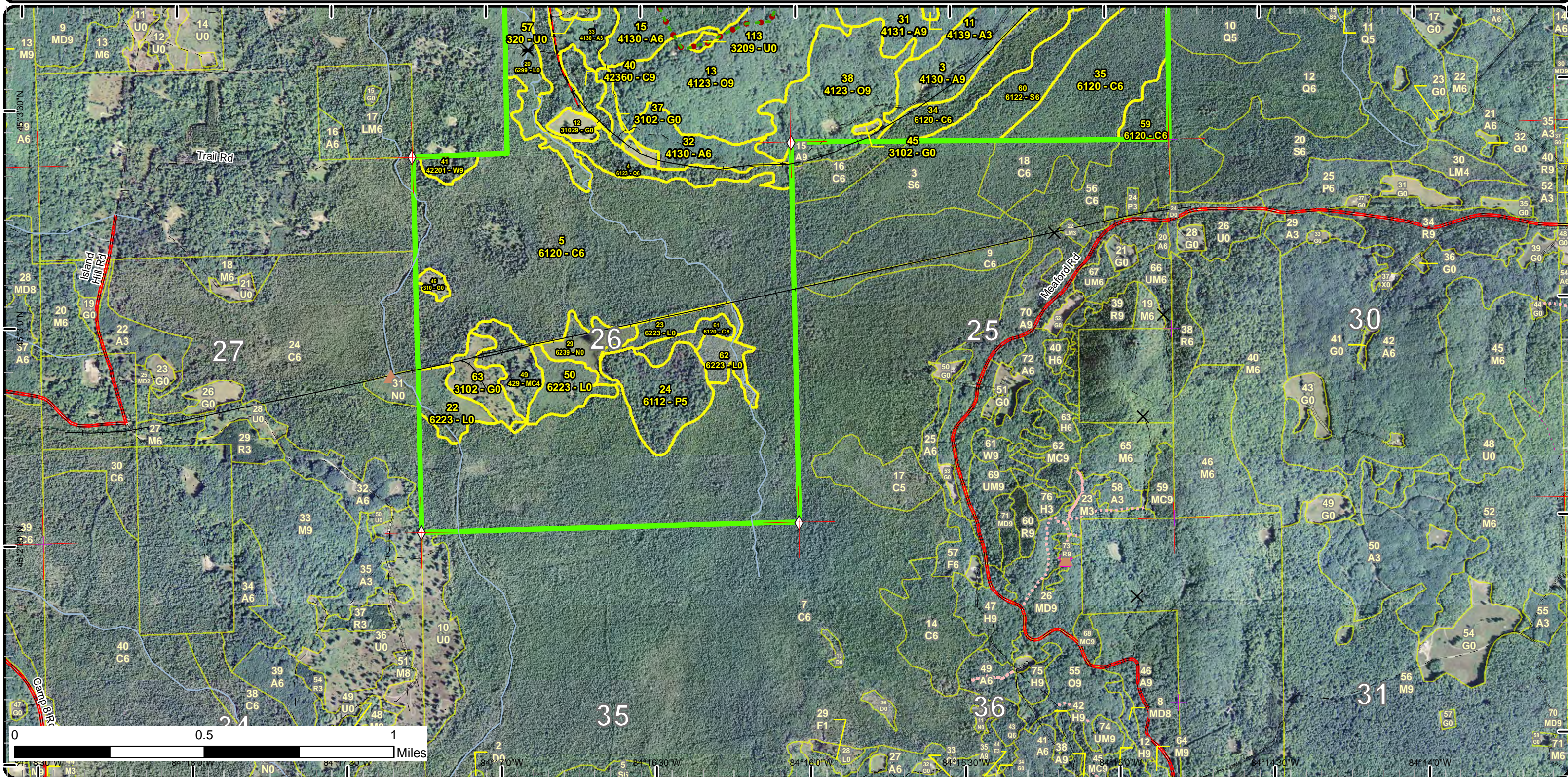


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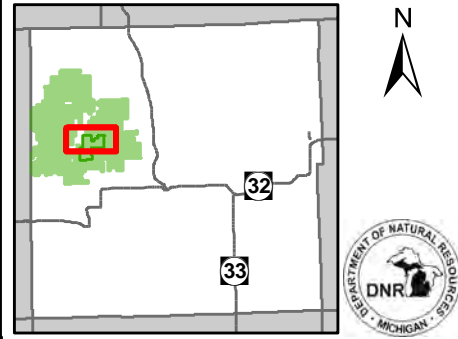


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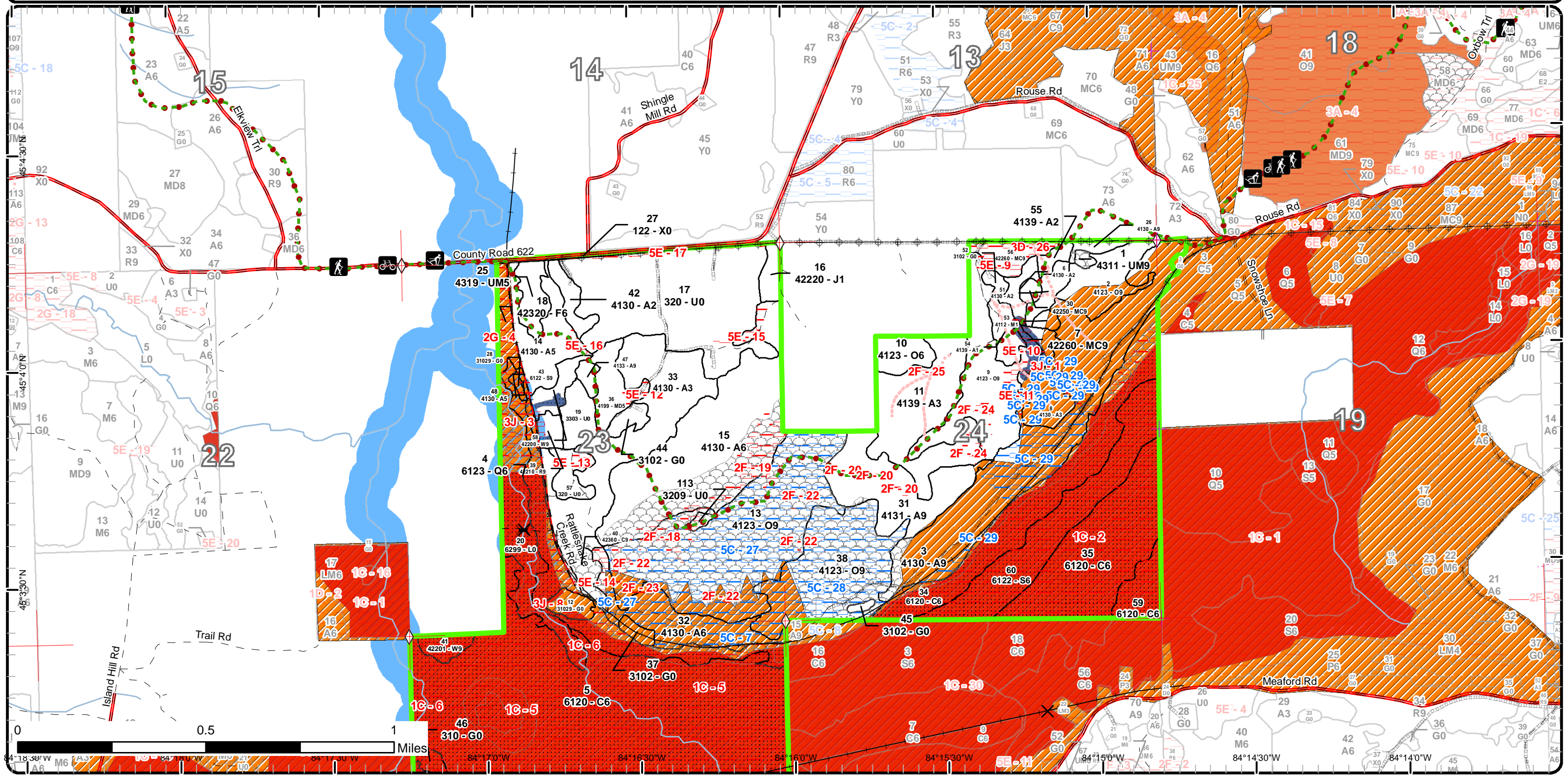


Special Conservation Areas & Site Conditions Map

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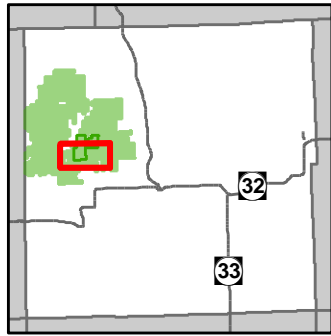


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- ▨ SCA
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Eastern Massasauga Managed Land
- Forest Habitat Core Interior
- Cold Water Streams
- High Priority Trout Stream Buffer
- Spring or Seep
- Other Habitat Area

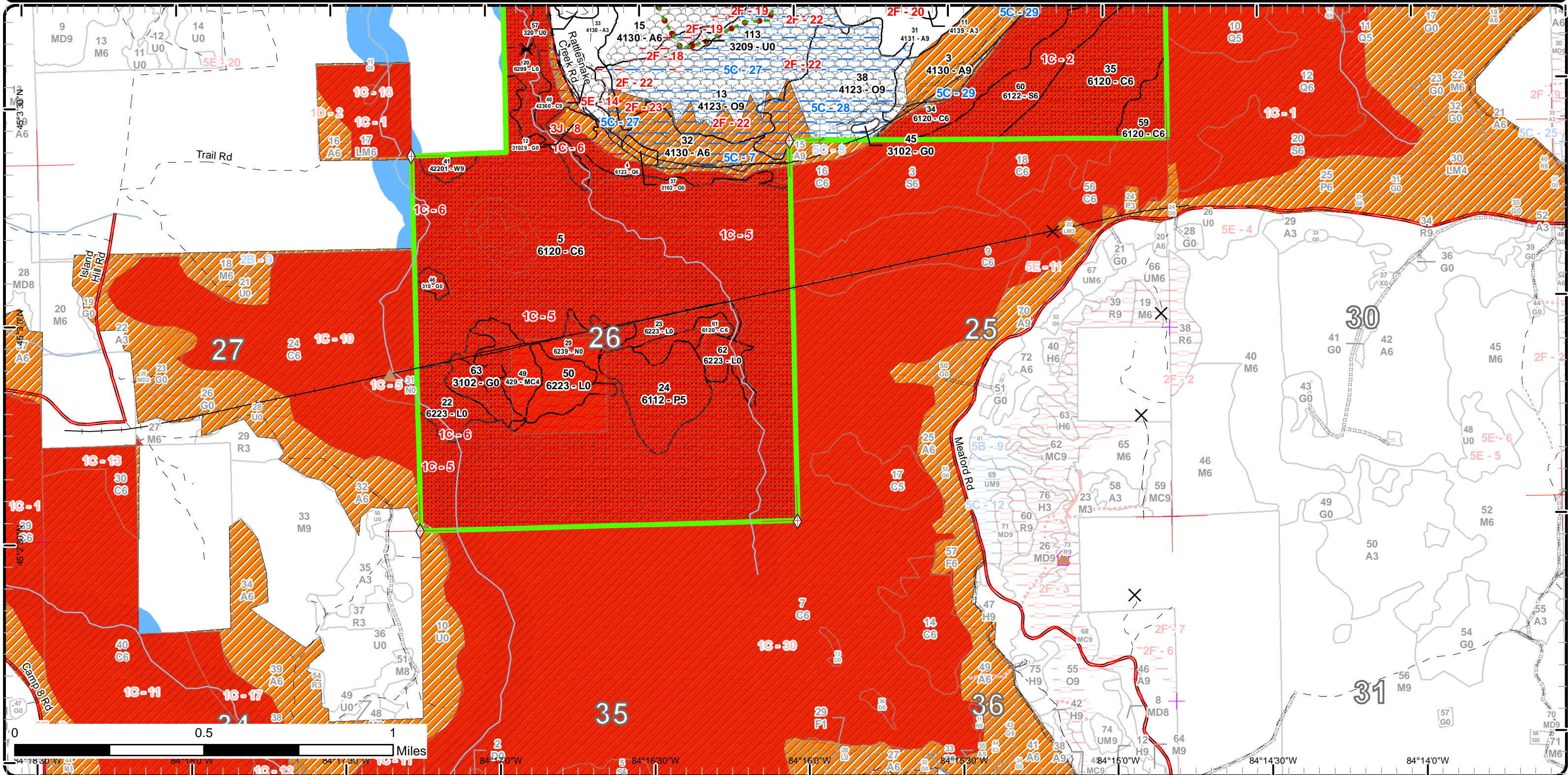


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Age Class

	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	90	0	44	0	86	143	0	0	0	35	0	0	0	0	0	0	0	398
Cedar	0	0	0	0	0	0	0	0	0	0	0	611	0	0	0	0	0	0	611
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Jack Pine	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33
Lowland Shrub	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	50
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	9	0	0	3	0	0	0	0	12
Northern Hardwood	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Oak	0	0	0	0	0	0	0	0	0	159	58	0	0	0	0	0	0	0	216
Red Pine	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	0	8	0	0	0	0	0	1	0	0	0	0	0	9
Upland Shrub	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	0	7	0	0	5	0	0	0	0	0	0	12
Total	222	92	5	44	0	97	151	0	26	192	134	673	1	3	0	0	0	0	1639



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 36

Total Compartment Acres: 1,642

Commercial Harvest - 172
 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	114	0	0	0	0	0	0	0	0	114
Oak	58	0	0	0	0	0	0	0	0	58
Total	172	0	0	0	0	0	0	0	0	172

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	172	0	0	0	0	82	0	29		283
Next Step	0	0	0	0	0	254	0	0		254
Total	172	0	0	0	0	336	0	29		537



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
2	54036002-CCR	17.5	4123 - Red Oak	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will contain numerous large diameter pine. Apply timing and habitat enhancement requirements for EMR CCAA.

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

Acceptable Regen: Acceptable regeneration is any combination of oak, maple, aspen or pine.

Other Comment: Use current, standard trail specs for safety and infrastructure protection.

Proposed Start Date: 10/01/2017

3	54036003-CCR	62.2	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may contain large crowned oak and areas of earthwork along abandoned RR grade. Apply timing and habitat enhancement requirements for EMR CCAA.

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

Acceptable Regen: Acceptable regeneration is any combination of aspen, oak, maple or pine.

Other Comment: Use current, standard trail specs for safety and infrastructure protection. Keep southwest unit north of RR grade.

Proposed Start Date: 10/01/2017

9	54036009-CCR	32.3	4123 - Red Oak	Sawtimber Well	92	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) may largely consist of portions of stand already affected by site conditions.

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

Acceptable Regen: Acceptable regeneration is any combination of oak, maple, aspen or pine.

Other Comment: Use current, standard trail specs for safety and infrastructure protection.

Proposed Start Date: 10/01/2017

10	54036010-CCR	8.4	4123 - Red Oak	Poetimber Well	84	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription 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.

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

Acceptable Regen: Acceptable regeneration is any combination of oak, maple or upland conifer.

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
12	54036012-NF	4.8	31029 - Grass (OI)	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

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

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

14	54036014- CCR	18.7	4130 - Aspen	Poletimber Medium	54	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include buffers around excavations near abandoned RR grade (Rattlesnake Creek Trail) or areas of WP and/or large crowned oak along HCP. There is a low risk of needing to leave a green-up buffer between the HCP and stand 17. Protect white pine regeneration.
Specs:

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

Acceptable Acceptable regeneration is any combination of aspen, oak, maple or pine.
Regen:

Other Use current, standard trail specs for safety and infrastructure protection. Apply timing and habitat enhancement requirements for EMR CCAA.
Comment:

Proposed Start Date: 10/01/2017

17	54036017- Monitor	82.1	320 - Upland Shrub	Nonstocked			Unspec ified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription
Specs:

Next Step ; Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Fully stocked Red Pine.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 04/20/2016

19	54036019-NF	8.4	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Other - Specify	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 follow EMR conservation measures
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
31	54036031- CCR	33.1	4131 - Aspen, Oak	Sawtimber Well	97	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include steep slopes or areas of large crowned oak along HCP. Leave white and red pine for diversity.

Specs: This stand has sandy soils with little O1/O2 layer and sparse ground vegetation. In addition to rutting spec, require no translocation of soil and real-time brushing of forwarder trails. Protect white pine regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any combination of aspen, oak, maple or pine.

Regen:

Other Use current, standard trail specs for safety and infrastructure protection. Apply timing and habitat enhancement requirements for EMR CCAA. Use
Comment: Atlanta grouse spec. 5.2.4.4.

Proposed Start Date: 10/01/2017

37	54036037-NF	2.6	3102 - Grass	Nonstocked			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

44	54036044-NF	3.9	3102 - Grass	Nonstocked			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

52	54036052-NF	1.9	3102 - Grass	Nonstocked			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



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
57 54036057-NF	7.0	320 - Upland Shrub	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No **Site Condition:** Long-Term Retention

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: 282.9**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 36
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5C	1C	2F	2G	3D	3J	5E	
397	320	48	29	Aspen	48		16	0			7	6
611	11	0	599	Cedar		599						
32	12	0	20	Herbaceous Openland		17					3	0
5	5	0	0	Jack Pine								
8	8	0	0	Low-Density Trees								
32	0	0	32	Lowland Aspen/Balsam Poplar		32						
33	0	0	33	Lowland Conifers		31					2	
78	0	0	78	Lowland Shrub		70					8	
49	0	0	49	Lowland Spruce/Fir		46		0			3	
12	0	0	12	Marsh		12						
11	10	0	2	Mixed Upland Deciduous								2
12	2	0	10	Natural Mixed Pines					6		1	3
2	2	0	0	Northern Hardwood								
217	60	139	17	Oak	139		12				2	3
4	3	0	2	Red Pine							2	
15	0	0	15	Upland Conifers		15						
10	10	0	0	Upland Mixed Forest								
90	85	0	6	Upland Shrub			1					5
7	0	0	7	Upland Spruce/Fir				6			1	
2	2	0	0	Urban				0				
12	6	0	6	White Pine		5					1	
1,642	536	187	918	Total Forested Acres	187	828	29	7	6		30	19
	33%	11%	56%	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	3J: Water quality / BMPs (stream, river, or lake)	9	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: buffer on chain of seeps, vernal pools and drainages. Eastern Massasauga habitat							

Report 4 – Site Conditions

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2	Unavailable	1C: Other dept or div proc/practices	165	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Green Swamp ERA and Forest Habitat Core Interior HCVA's.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2G: Too wet (sensitive soils, does not include access issues)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Cold water Stream.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Eastern Massasauga habitat.							
5	Unavailable	1C: Other dept or div proc/practices	485	2G: Too wet (sensitive soils, does not include access issues)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Green Swamp ERA and Forest Habitat Core Interior HCVA's.							
6	Unavailable	1C: Other dept or div proc/practices	178	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	5F: Evaluated for Forest Health Considerations	Unspecified
Comments: Green Swamp ERA and Forest Habitat Core Interior HCVA's. Cold water Stream.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cold water Stream.							
9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-023-08-01							
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-023-08-01							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-023-08-01							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-023-08-01							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-023-08-01							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-023-08-01							
15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-002-13-01							

Report 4 – Site Conditions

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16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-002-13-01							
17	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale 54-002-13-01							
18	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2F: Too steep	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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25	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3D: Recreational / Scenic values	6	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	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
Comments	Spring-Seeps, Riparian Areas	Spring Seep	Proposed SCA	0
Comments	Spring-Seeps, Riparian Areas	Spring Seep	Proposed SCA	1
Comments	Spring-Seeps, Riparian Areas	Spring Seep	Proposed SCA	9
Comments	Potential Old Growth		SCA Removal	1
Comments	Potential Old Growth		SCA Removal	4
This area no longer meets the criteria to be classified as a Special Conservation Area.				
Comments	Potential Old Growth		SCA Removal	5
This area no longer meets the criteria to be classified as a Special Conservation Area.				
Comments	Potential Old Growth		SCA Removal	9
This area no longer meets the criteria to be classified as a Special Conservation Area.				
Comments	Potential Old Growth		SCA Removal	16
This area no longer meets the criteria to be classified as a Special Conservation Area.				
Comments	Potential Old Growth		SCA Removal	157
This area no longer meets the criteria to be classified as a Special Conservation Area.				



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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4311 - Pine, Aspen Mix	Sawtimber Well	1.3	114	81-110	.
2	4123 - Red Oak	Sawtimber Well	17.5	91	81-110	
3	4130 - Aspen	Sawtimber Well	91.7	56	81-110	Larger trees along south edge.
4	6123 - Lowland Fir	Poletimber Well	33.0	86		D&M VALENTINE GRADE
5	6120 - Lowland Cedar	Poletimber Well	473.0	100	Unspecified	
6	4130 - Aspen	Sapling Medium	4.8	7	Immature	CC in 2009- 54-023-08-01.
7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	1.4	122	111-140	STAND OF LARGE PINE ALONG High Country Pathway.
8	4130 - Aspen	Sapling Well	10.3	7	Immature	
9	4123 - Red Oak	Sawtimber Well	40.9	92	111-140	MANY BURNED WP STUMPS.
10	4123 - Red Oak	Poletimber Well	8.4	84	81-110	
11	4139 - Aspen, Mixed Deciduous	Sapling Well	43.6	29	Immature	Steep slopes. Some washouts In access trail.
13	4123 - Red Oak	Sawtimber Well	97.3	88	81-110	BMP nonconformance # 001-54-60-06. SCA Rattlesnake Hills. Blocked illegal trails with bolders, twice in 2006.
14	4130 - Aspen	Poletimber Medium	20.0	54	51-80	
15	4130 - Aspen	Poletimber Well	85.6	46	51-80	
16	42220 - Natural Jack Pine	Sapling Poor	4.7	16	Immature	OPIC - FMD: Cut 2000, sale 25-98. Some cherry, Red pine and White pine, Need to plant FTP # C-54-709. (not complete) Treat with adjacent stand.
18	42320 - Upland Spruce	Poletimber Well	7.1	100	51-80	
24	6112 - Lowland Aspen	Poletimber Medium	32.3	92	Unspecified	
25	4319 - Mixed Upland Forest	Poletimber Medium	8.4	54	51-80	



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	Sawtimber Well	2.8	56	Unspecified	OPIC - FMD: MANY BIG WP STUMPS. WP SEEDLINGS IN MANY AREAS. CLAY PRESENT IN SOIL RATTLESNAKE HILL. High Country Pathway. Klacking sand. Stay off steep slopes. Keep white and red pine and larger oak. Clear cut with reserves. Variance was granted for the following reason: Most of the stand was harvested, this remainder was steep slopes - OI called for leaving steep slopes so the prescription should be removed.---CC in 2009- 54-023-08-01
42250 - Pine, Oak	Sawtimber Well	1.9	122	141-170	STAND OF LARGE PINE ALONG High Country Pathway. wp to 30 inches dbh. Appears to have seep activity along south side.
4131 - Aspen, Oak	Sawtimber Well	35.1	97	81-110	A few scattered wp and rp. Many burned wp stumps.
4130 - Aspen	Poletimber Well	25.1	54	81-110	
4130 - Aspen	Sapling Well	53.2	7	Immature	
6120 - Lowland Cedar	Poletimber Well	53.0	102	Unspecified	
6120 - Lowland Cedar	Poletimber Well	58.1	100	Unspecified	
4199 - Other Mixed Upland Deciduous	Poletimber Medium	11.3	47	1-50	
4123 - Red Oak	Sawtimber Well	52.8	88	81-110	
42210 - Natural Red Pine	Sawtimber Well	4.3	77	111-140	
42360 - Upland Cedar	Sawtimber Well	8.3	100	81-110	
42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	5.0	100	51-80	
4130 - Aspen	Sapling Medium	6.0	3	1-50	
6122 - Black Spruce	Sawtimber Well	3.1	100	51-80	
4133 - Aspen, Mixed Pine	Sawtimber Well	2.6	57	81-110	
4130 - Aspen	Poletimber Medium	0.7	54	51-80	

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Report 7 – Forested Stands

Compartment: 36
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	429 - Mixed Upland Conifers	Poletimber Poor	15.4	70	1-50	EXCAVATED SIDING ON BCG&A. LOADING SITE/CAMP FROM GLORY DAYS OF LOGGING.
51	4130 - Aspen	Sapling Medium	5.5	7	Immature	MANY BIG WP STUMPS. CC in 2009- 54-023-08-01.
53	4112 - Maple, Beech, Cherry Association	Sapling Poor	1.8	7	Immature	MANY BIG WP STUMPS. CC in 2009- 54-023-08-01.
54	4139 - Aspen, Mixed Deciduous	Sapling Poor	6.9	7	Immature	MANY BIG WP STUMPS. CC in 2009- 54-023-08-01.
55	4139 - Aspen, Mixed Deciduous	Sapling Medium	3.0	7	Immature	MANY BIG WP STUMPS. CC in 2009- 54-023-08-01.
56	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.0	92	111-140	
58	42200 - Natural White Pine	Sawtimber Well	7.1	77	111-140	
59	6120 - Lowland Cedar	Poletimber Well	10.9	100	Unspecified	
60	6122 - Black Spruce	Poletimber Well	46.4	100	Unspecified	
61	6120 - Lowland Cedar	Poletimber Well	7.3	100	Unspecified	



Stand	Cover Type	Acres	Managed Site	General Comments:
12	31029 - Grass (OI)	4.8	Yes	
17	320 - Upland Shrub	82.1		medium stocking of cherry brush
19	3303 - Mixed Low Density Trees	8.4		OPIC - FMD: High Country Pathway. Pockets of Aspen. Klacking sands. Keep 10% to 20% in retention, summer log for scarification. Any mix of regeneration is acceptable. Wait 5 years for natural regeneration. Do not cut oak. Cut in 2009 sale #54-018-08-01 RATTLESNAKE PINE
20	6299 - Lowland Shrub (OI)	30.2	No	.Bridge crosses Rattlesnake Creek
22	6223 - Inundated Shrub Swamp	13.7	No	
23	6223 - Inundated Shrub Swamp	9.9	No	
27	122 - Road/Parking Lot	2.4	No	Co. Rd. 622
28	31029 - Grass (OI)	1.0	Yes	
29	6239 - Mixed Emergent Wetland	12.3	No	
37	3102 - Grass	2.6	Yes	
44	3102 - Grass	3.9	Yes	
45	3102 - Grass	1.0	Yes	
46	310 - Herbaceous Openland	2.7	No	
50	6223 - Inundated Shrub Swamp	15.1	No	
52	3102 - Grass	1.9	No	gas pad and old sale CC in 2009- 54-023-08-01.
57	320 - Upland Shrub	7.0	No	
62	6223 - Inundated Shrub Swamp	9.1	No	tag alder and dead cedar.



Stand	Cover Type	Acres	Managed Site	General Comments:
63	3102 - Grass	14.0	No	EXCAVATED SIDING ON BCG&A. LOADING SITE/CAMP FROM GLORY DAYS OF LOGGING. Previously THEATENED BY VEHICLE TRAFFIC.
113	3209 - Upland Shrub (OI)	1.3	No	