



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 174

Entry Year 2015

Acreage: 1,219

County Cheboygan

Management Area: Hammond Bay Lake Plain

Revision Date: 10/31/2013

Stand Examiner: Chad Fate

Legal Description:

Sections 35 and 36, T37N-R1E

Identified Planning Goals:

Timber and wildlife habitat

Soil and topography:

Topography is flat and soils are gravely sands with a high water table in some areas.

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

Private parcels to the west along twin lakes. Private hunting property to the north and east (old Abitibi land). State land to the south.

Unique Natural Features:

Potential for red shoulder hawk and eastern massasauga.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Twin Lakes are just west of the compartment. Black Lake is 2.5 miles south.

Wildlife Habitat Considerations:

This compartment is a mixture of upland and lowland types which provides habitat to black bear, white-tailed deer, ruffed grouse, and woodcock as featured species. Harvests in aspen types should include features that benefit these species including down woody debris and brush piles. There is good potential for rare raptor nesting and nests should be buffered in any timber harvest. Openings in this compartment are mostly converting to shrub or low density trees and should be treated with fire to set back this succession to provide wildlife with a mixture of habitat types. There is a large stand of 35 year old aspen that should be broken up in future entries to create a mosaic of age classes for diversity of habitat for grouse and deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift is the Devonian Detroit River Group, used for dolomite/stone. A gravel pit is located in Section 35 and there may be some potential in the compartment. This area has had little drilling for oil and gas although a few deep wells were drilled to the north. Oil and gas producing Guelph (Niagaran) Reefs are located 20 miles to the southeast. The entire Compartment is leased for oil and gas development.

Vehicle Access:

Access is good off of Krouse Rd and Alpena State Rd. There are numerous 2-tracks and snowmobile trail running through the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

Snowmobile and ORV Trails along with hunting.

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**

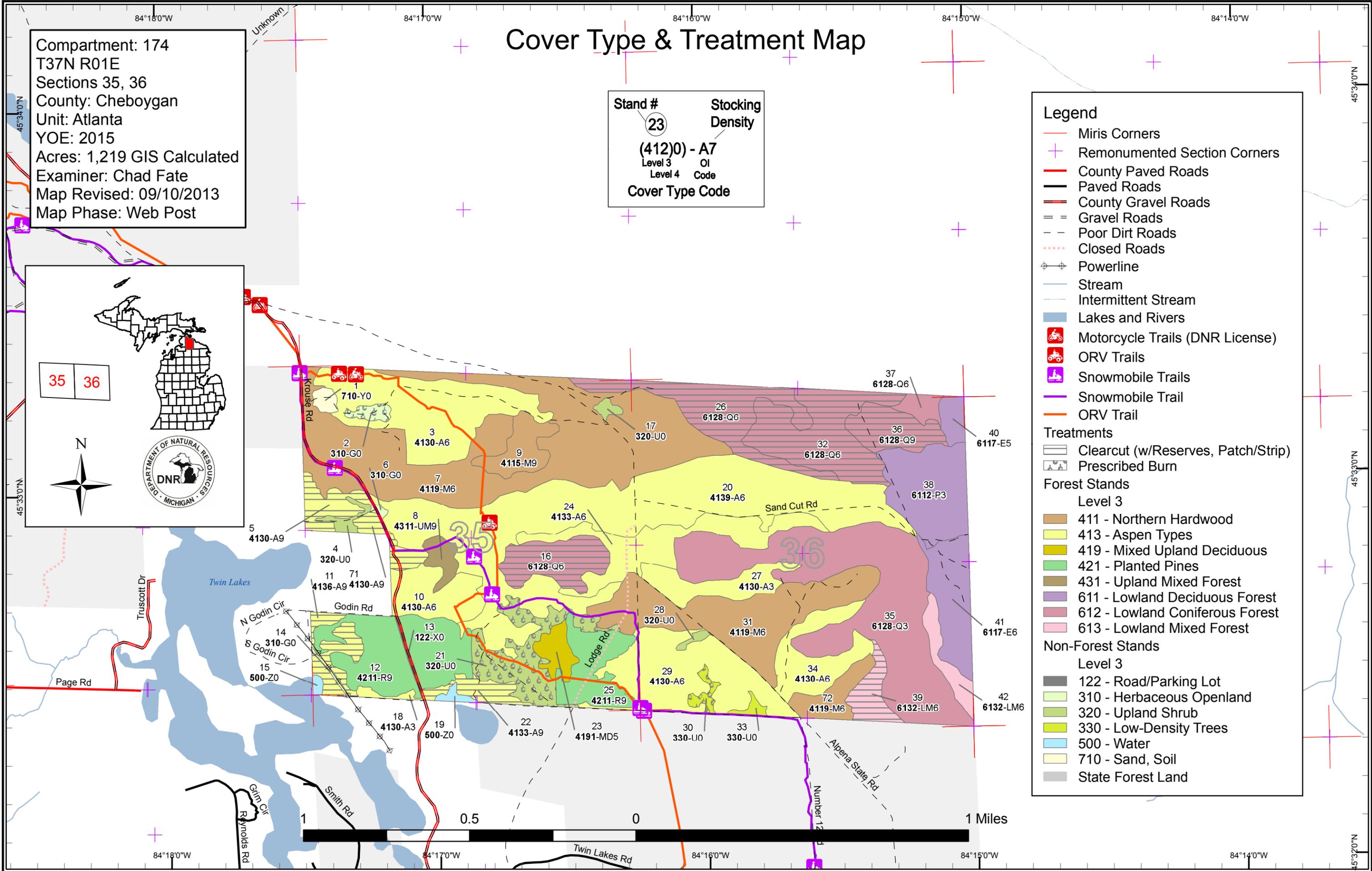
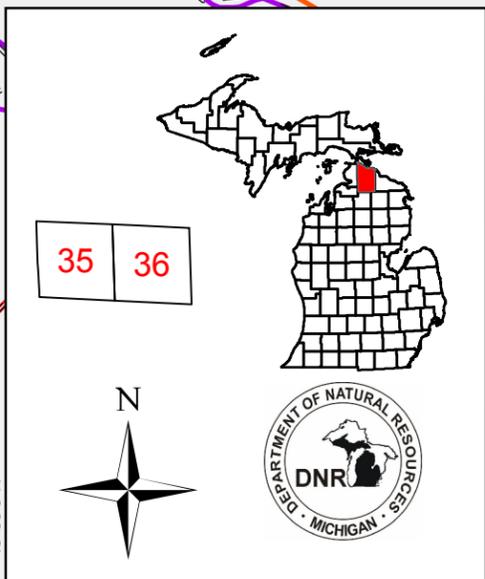
Cover Type & Treatment Map

Compartment: 174
 T37N R01E
 Sections 35, 36
 County: Cheboygan
 Unit: Atlanta
 YOE: 2015
 Acres: 1,219 GIS Calculated
 Examiner: Chad Fate
 Map Revised: 09/10/2013
 Map Phase: Web Post

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

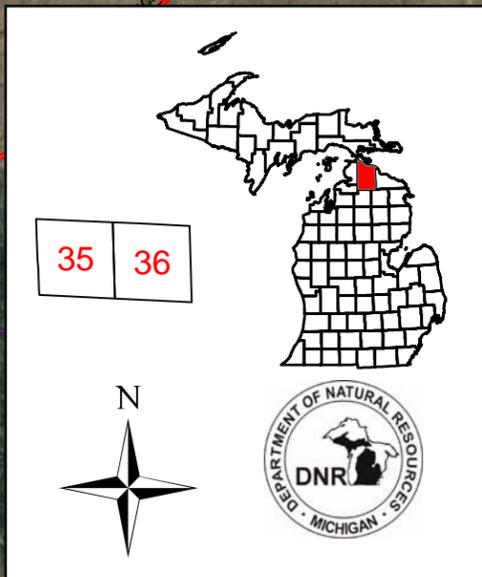
- Miris Corners
 - Remonumented Section Corners
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Closed Roads
 - Powerline
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
 - Motorcycle Trails (DNR License)
 - ORV Trails
 - Snowmobile Trails
 - Snowmobile Trail
 - ORV Trail
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Prescribed Burn
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 500 - Water
 - 710 - Sand, Soil
 - State Forest Land



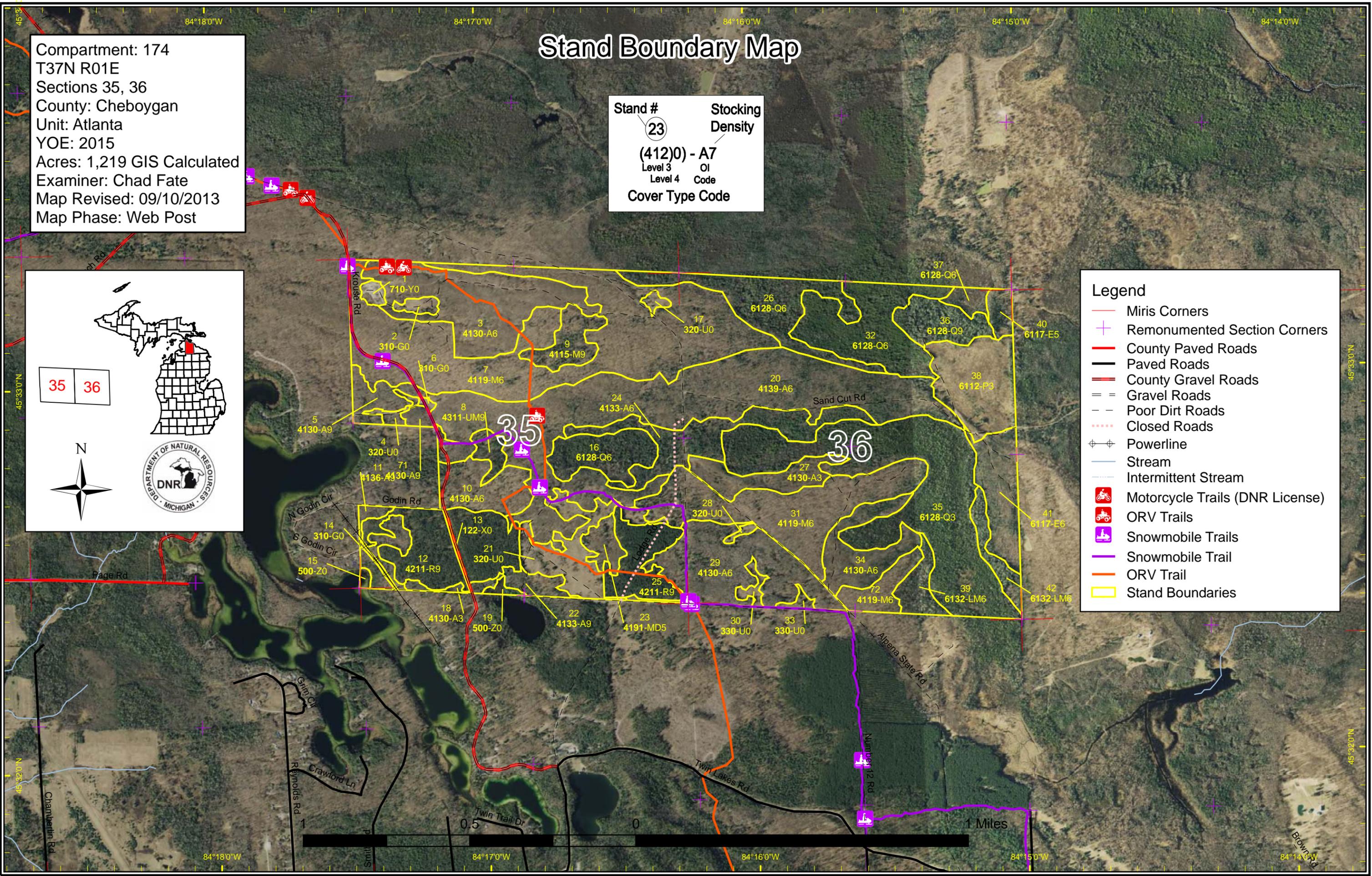
Stand Boundary Map

Compartment: 174
 T37N R01E
 Sections 35, 36
 County: Cheboygan
 Unit: Atlanta
 YOE: 2015
 Acres: 1,219 GIS Calculated
 Examiner: Chad Fate
 Map Revised: 09/10/2013
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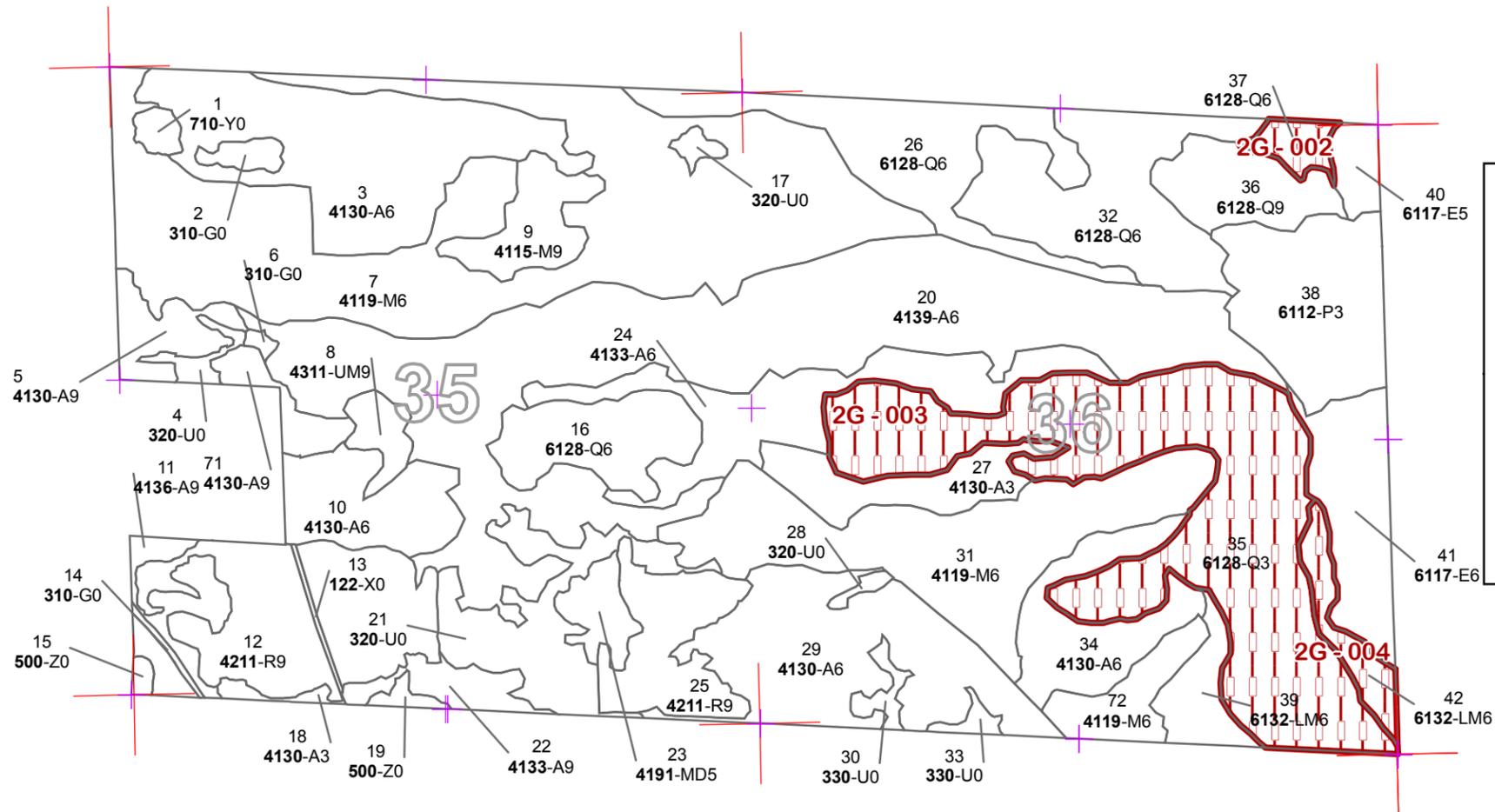
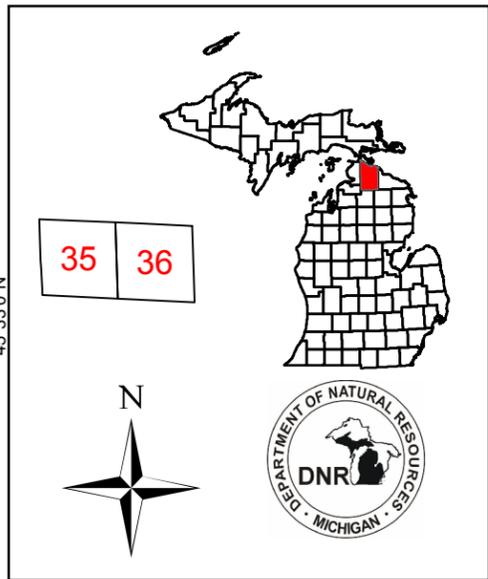
- Legend**
- Miris Corners
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 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Closed Roads
 - Powerline
 - Stream
 - Intermittent Stream
 - Motorcycle Trails (DNR License)
 - ORV Trails
 - Snowmobile Trails
 - Snowmobile Trail
 - ORV Trail
 - Stand Boundaries



Special Conservation Areas & Site Conditions Map

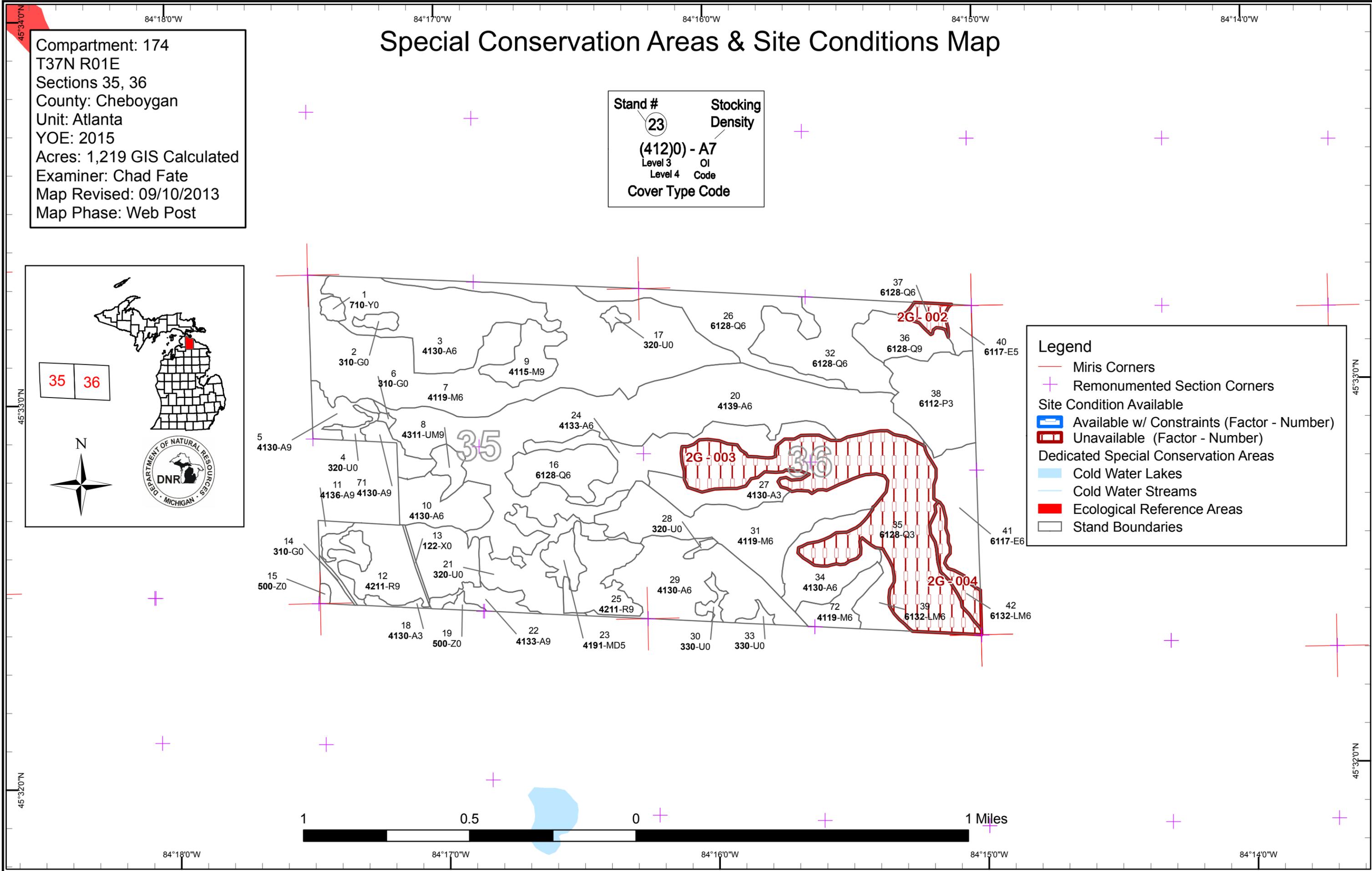
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Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Dedicated Special Conservation Areas
 - Cold Water Lakes
 - Cold Water Streams
 - Ecological Reference Areas
 - Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	21	115	218	58	0	0	9	33	0	0	0	0	0	454
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	0	0	0	237	6	19	0	0	0	262
Lowland Deciduous	0	0	27	6	0	0	0	0	0	0	0	0	0	0	34
Lowland Mixed Forest	0	0	0	0	0	0	0	11	10	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	0	0	0	0	0	0	262	0	0	0	0	0	262
Red Pine	0	0	0	0	0	76	0	0	0	0	0	0	0	0	76
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Upland Shrub	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	94	21	151	224	58	82	0	20	542	6	19	0	0	0	1219



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2015

Compartment 174
Total Compartment Acres: 1,219

Acres by Treatment Type

Commercial Harvest - 186 Tree Planting - 0 Other - 37
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	42	0	0	0	0	0	42
Lowland Coniferous Forest	133	0	0	0	0	0	133
Lowland Mixed Forest	11	0	0	0	0	0	11
Total	186	0	0	0	0	0	186



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	54174005-Cut	11.7	4130 - Aspen	High Density Log	85		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription: Clearcut, leave retention pockets along Loons Nest Rd. Leave Hemlock and Cedar. Use trail specs. Use grouse log spec.

Specs:

Other

Comments:

Next acceptable regen is aspen

Steps:

Proposed

Start Date: 10/01/2014

11	54174011-Cut	13.3	4136 - Aspen, Mixed Conifer	High Density Log	80		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription: Clearcut, leave retention according to guidelines. Leave retention along the lake. Keep an eye out for potential stick nest and follow current

Specs: guidelines if any are found. Use grouse log spec.

Other

Comments:

Next Acceptable regen is aspen with a mix of hardwoods and pine

Steps:

Proposed

Start Date: 10/01/2014

16	54174016-Cut	24.3	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	83		Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
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Prescription: Clearcut, leave pockets of cedar. Treatment acres may be smaller than prescribed due to extremely wet areas. Cut in the winter or dry summer.

Specs: Use a 3-4 year timber sale contract. Leave a few large "super" canopy white pines. Watch for stick nests and follow guidelines if any are found. Use trail specs.

Other

Comments:

Next acceptable regen includes white pine, fir, and aspen

Steps:

Proposed

Start Date: 10/01/2014

22	54174022-Cut	9.2	4133 - Aspen, Mixed Pine	High Density Log	77		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription: Clearcut, leave retention along the bog and steeper slopes. Look for stick nests and protect any if found according to the current guidelines. Use

Specs: grouse spec. and trail specs.

Other

Comments:

Next Acceptable regen is aspen with a mix of hardwoods and pine

Steps:

Proposed

Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26	54174026-Cut	41.3	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	85		Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut, leave pockets of cedar for retention (approx 10% of stand area). Treatment acres may be smaller then prescribed due to extremely wet areas. Exclude steep slopes along the west edge of the stand. Cut in the winter or dry summer. Use a 3-4 year timber sale contract. Use short wood spec and leave tops for traction and rutting. watch for stick nests and follow guidelines if any are found. create brush piles on high ground when possible for hares.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> acceptable regen is a mix of lowland conifers and lowland hardwoods including spruce/fir, aspen, birch, and red maple.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
32	54174032-Cut	48.5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	86	111-140	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut, leave pockets of cedar for retention (approx 10% of stand area). Treatment acres may be smaller then prescribed due to extremely wet areas. Northern portion of the stand may be too wet to cut. Cut in the winter or dry summer. Use a 3-4 year timber sale contract. Use short wood spec and leave tops for traction and rutting. watch for stick nests and follow guidelines if any are found. create brush piles on high ground when possible for hares.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> acceptable regen includes a mis of lowland conifers and aspen/balsam poplar</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
36	54174036-Cut	19.2	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	100	111-140	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut, leave pockets of cedar for retention (approx 10% of stand area). Treatment acres may be smaller then prescribed due to extremely wet areas. Exclude steep slopes along the west edge of the stand. Cut in the winter or dry summer. Use a 3-4 year timber sale contract. Use short wood spec and leave tops for traction and rutting. watch for stick nests and follow guidelines if any are found. create brush piles on high ground when possible for hares.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Acceptable regeneration is a mix of lowland conifers and aspen/balsam poplar.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
39	54174039-Cut	11.3	6132 - Mixed Lowland Forest with Cedar	High Density Pole	75		Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut, leave pockets of cedar for retention. Treatment acres may be smaller than prescribed due to extremely wet areas. Cut in the winter or dry summer. Use a 3-4 year timber sale contract. Look for stick nests and exclude according to guidelines if found.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Access can be from the south through compartment 175</p> <p><u>Next</u> <u>Steps:</u> acceptable regen may include birch, aspen, red maple, and balsam fir.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71	54174071-Cut	7.5	4130 - Aspen	High Density Log	85		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Clearcut with retention. Leave cedar and hemlock. Use trail specs and use grouse log spec.

Specs:

Other

Comments:

Next acceptable regen is aspen

Steps:

Proposed

Start Date: 10/01/2014

2	NF_54174002- Burn	3.4	3102 - Grass				Prescribed Burn	Unspecified	3102 - Grass	Cmpt. Review Proposal
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Prescription Burn to maintain opening with grasses. If burn is not funded, treat mechanically.

Specs:

Other

Comments:

Next Monitor and treat on rotation

Steps:

Proposed

Start Date: Unspecified

21	NF_54174021- Burn	30.3	3205 - Mixed Upland Shrub				Prescribed Burn	Unspecified	320 - Upland Shrub	Cmpt. Review Proposal
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Prescription Burn to maintain opening and set back shrubs. If burn is not funded, treat mechanically. Use trail specs when treating.

Specs:

Other

Comments:

Next Monitor and treat on rotation

Steps:

Proposed

Start Date: Unspecified

30	NF_54174030- Burn	3.2	3303 - Mixed Low Density Trees				Prescribed Burn	Unspecified	3205 - Mixed Upland Shrub	Cmpt. Review Proposal
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Prescription Burn to set back succession and promote shrubby character of old opening. If burn is not funded, treat mechanically.

Specs:

Other

Comments:

Next Monitor and re-treat to promote shrubs on rotation

Steps:

Proposed

Start Date: Unspecified

**Total Treatment
Acreage Proposed: 223.1**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type!

#Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Atlanta Mgt. Unit
Chad Fate : Examiner

Compartment 174
Year of Entry 2015

Availability for Management

Availability for Management			Dominant Site Conditions		
Total Acres	Acres Available	Acres Not Available			
			No	2G	
454	454		Aspen	454	
40	40		Lowland Aspen/Balsam Poplar	40	
262	133	128	Lowland Conifers	133	128
34	34		Lowland Deciduous	34	
21	11	10	Lowland Mixed Forest	11	10
9	9		Mixed Upland Deciduous	9	
262	262		Northern Hardwood	262	
76	76		Red Pine	76	
7	7		Upland Mixed Forest	7	
1,164	1,026	139	Total Forested Acres	1,026	139
	88%	12%	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
002	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6				
Comments: Too wet and lots of blowdown							
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	123	4A: No merchantable products (see product standards)			
Comments: Very wet and very slow growing.							
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10				
Comments:							



Report 6 – 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 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 174
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
3	4130 - Aspen	High Density Pole	64.7	28		
5	4130 - Aspen	High Density Log	11.7	85		
7	4119 - Mixed Northern Hardwoods	High Density Pole	163.6	85	51-80	Thinned in 2009. EAB and BBD present.
8	4311 - Pine, Aspen Mix	High Density Log	6.6	50	111-140	Natural red pine with pockets of aspen throughout.
9	4115 - Y.Birch, Hemlock NH	High Density Log	15.4	85	51-80	thinned in 2009. Scattered Hemlock throughout the stand. BBD present
10	4130 - Aspen	High Density Pole	23.8	28		
11	4136 - Aspen, Mixed Conifer	High Density Log	13.3	80		
12	42110 - Planted Red Pine	High Density Log	51.4	55	81-110	at least 2 thinnings in the past. log size pine. lots of hwdw regen in the sub-canopy.
16	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	24.3	83		
18	4130 - Aspen	High Density Sapling	2.1	15		
20	4139 - Aspen, Mixed Deciduous	High Density Pole	178.4	35		Very mixed stand. Size and density varies throughout.
22	4133 - Aspen, Mixed Pine	High Density Log	9.2	77		
23	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	8.5	25		low ba. stand is filling in an old opening
24	4133 - Aspen, Mixed Pine	High Density Pole	39.7	39		scattered large white pine
25	42110 - Planted Red Pine	High Density Log	24.5	55	111-140	Stand BA varies through out. Last thinned in 1995
26	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	41.3	85		So steep slopes along west edge of stand. Wet throughout most of the stand.
27	4130 - Aspen	High Density Sapling	19.4	17		
29	4130 - Aspen	High Density Pole	58.4	40		

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 174
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	4119 - Mixed Northern Hardwoods	High Density Pole	70.1	85	81-110	eab and bbd present. thinned in 2008
32	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	48.5	86	111-140	
34	4130 - Aspen	High Density Pole	26.1	25		mostly upland with a few lower spots
35	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	122.9	80		scattered pockets of tag alder. black ash is dead or dying. Standing water throughout the stand. The majority of the trees are extremely slow growing (small diameter and short heights)
36	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	19.2	100	111-140	
37	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.6	90		very wet soils with lots of blowdown.
38	6112 - Lowland Aspen	High Density Sapling	40.0	5		
39	6132 - Mixed Lowland Forest with Cedar	High Density Pole	11.3	75		Low ground
40	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	6.4	35		BA is variable, scattered open areas.
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	27.4	27		Mostly low ground with higher dry pockets throughout.
42	6132 - Mixed Lowland Forest with Cedar	High Density Pole	10.1	87		black ash is dead or dying. Standing water with some surface flow.
71	4130 - Aspen	High Density Log	7.5	85		
72	4119 - Mixed Northern Hardwoods	High Density Pole	13.0	85	81-110	eab and bbd present. thinned in 2008



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	710 - Sand, Soil	2.9	Unspecified	Unspecified	dirt/gravel pit
2	3102 - Grass	3.4	Unspecified	Unspecified	few scattered cherry and hawthorn. some scattered blackberry and raspberry
4	3205 - Mixed Upland Shrub	3.2	Unspecified	Unspecified	
6	3102 - Grass	0.9	Unspecified	Unspecified	
13	122 - Road/Parking Lot	1.1	Unspecified	Unspecified	
14	3102 - Grass	1.0	Unspecified	Unspecified	Powerline right-of-way, grass
15	50 - Water	1.2	Unspecified	Unspecified	
17	3205 - Mixed Upland Shrub	2.0	Unspecified	Unspecified	mostly sumac
19	50 - Water	1.9	Unspecified	Unspecified	
21	3205 - Mixed Upland Shrub	30.3	Unspecified	Unspecified	sumac, juniper, cherry, and pockets of aspen
28	3205 - Mixed Upland Shrub	1.3	Unspecified	Unspecified	
30	3303 - Mixed Low Density Trees	3.2	Unspecified	Unspecified	mixed low density trees including aspen, white pine and cherry. Not enough density to call forested yet.
33	3303 - Mixed Low Density Trees	2.0	Unspecified	Unspecified	low density trees including aspen, white pine, balsam fir, ash, and cherry. I