



ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION
COMPARTMENT 166 ENTRY YEAR: 2013

Compartment Acreage: 1045 County: Presque Isle

Revision Date: October 27, 2011

Stand Examiner: Jeff Autenrieth

Legal Description: T38N, R01W, Sec. 25, 26, 35, &36.

RMU (if applicable):

Management Goals: This compartment is being managed for recreational, and timber resources for the general good of the people of the State of Michigan

Soil and Topography: Gravely phase sands and organic mucks. Area is typically flat with a high water table. There is evidence of some possible old lake shores on the north end of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Most of the surrounding land is owned by the state. There may be a few residences and a few seasonal recreational properties.

Unique, Natural Features (include only non-site specific and non-sensitive information): There have been reports from MNFI.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None Reported.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: Elliot Creek has been under study for potential “coaster” brook trout management since the last year of entry.

Wildlife Habitat Considerations: This compartment contains primarily a mixture of aspen and pine. Wildlife utilizing the compartment includes white-tailed deer, ruffed grouse, American woodcock, snowshoe hare, wild turkey, and black bear. Openings in this compartment have been lost to upland brush or succeeded to forest. Timber harvests proposed should maintain a buffer around adjacent wetlands to protect sensitive habitats. Woody debris should be left to create ground structure for grouse and other wildlife.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. Glacial drift thickness varies between 200 and 600 feet. There is approximately 110 feet of local relief within the compartment. Beneath the Glacial Drift is The Devonian Bois Blanc formation, which is quarried for stone. The nearest gravel pits are located near the center of

section 25. There may be some gravel potential in the compartment but it is mostly sand. This area has had no drilling for oil and gas. Oil and gas producing Silurian Niagaran reefs are located 25 miles to the southeast. None of the State land is leased for oil and gas development. The state owns other mineral rights in sections 25 and 26.

Vehicle Access: Roads to be closed are shown on the compartment map as closed or abandoned.

Survey Needs: None. Surveying will be required to prove trespass for timber sale preparation.

Recreational Facilities and Opportunities: An ORV trail passes through the compartment.

Fire Protection: Adequate.

Additional Compartment Information: There is considerable trash dumping in this compartment.

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

Stand Boundary Map

26 25
35 36

N

Stand # 23	Stocking Density	Compartment 166 T38N, R01W, Sec. 25-26, 35-36 County: Cheboygan Unit: Atlanta YOE: 2013 Acres: 1,043 GIS Calculated Stand Examiner: Jeff Autenrieth Map Revised: 8/11/2011 Map Phase: Pre-Review
(412)0 - A7		
Level 3 OI		
Level 4 Code		
Cover Type Code		

Legend

- Miris Corners
- Highway
- Paved Roads
- - - Poor Dirt Roads
- - - Intermittent Stream/Drain
- Stream
- ORV Trails
- ORV Trail
- Stand Boundaries

Forest Stands

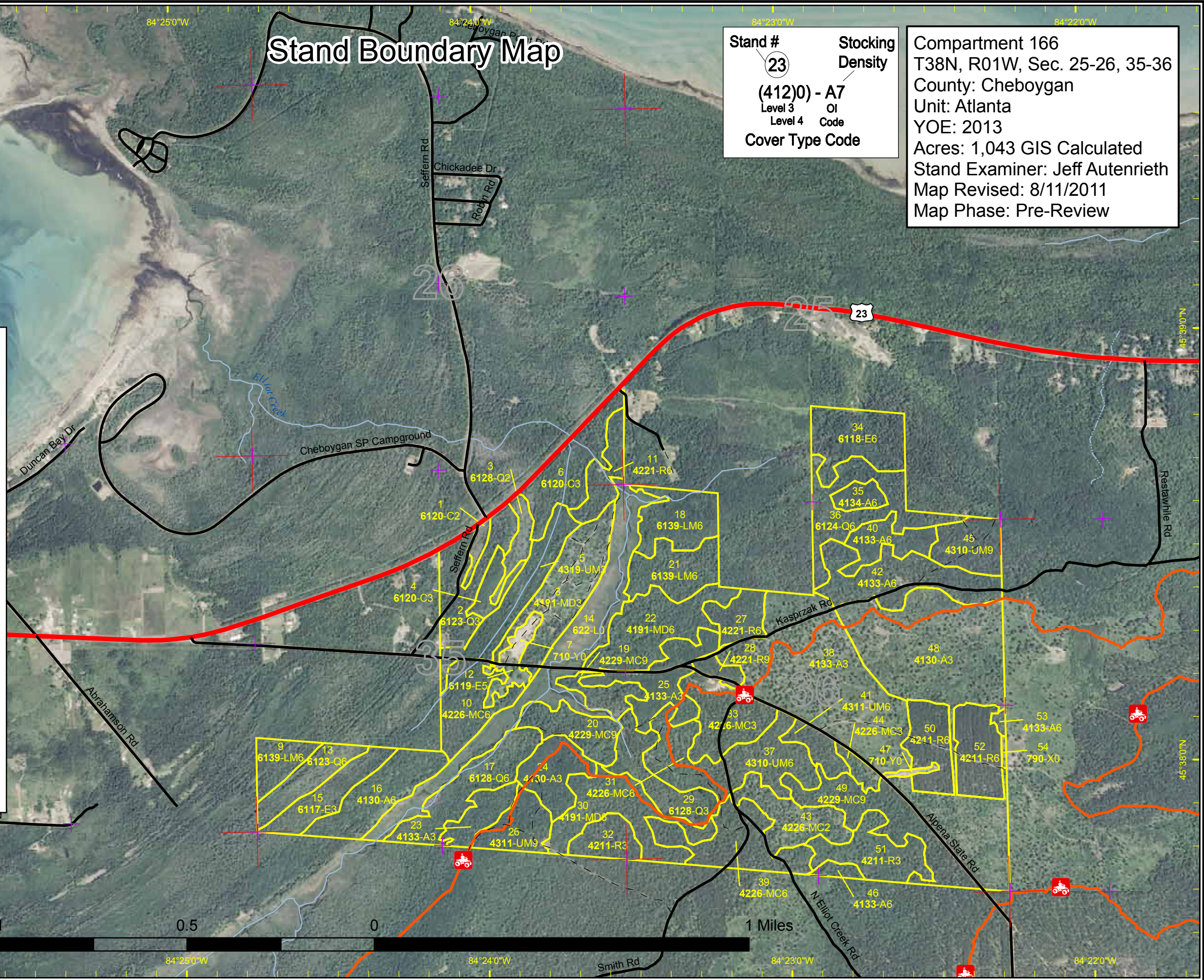
Level 3

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 622 - Lowland Shrub
- 710 - Sand, Soil
- 790 - Other Bare/Sparsely Vegetated



Cover Type & Treatment Map

84°26'0"W 84°25'0"W 84°24'0"W 84°23'0"W

26 25
35 36

N

Stand #
23
(412)0 - A7
Level 3 OI
Level 4 Code
Cover Type Code

Compartment 166
T38N, R01W, Sec. 25-26, 35-36
County: Cheboygan
Unit: Atlanta
YOE: 2013
Acres: 1,043 GIS Calculated
Stand Examiner: Jeff Autenrieth
Map Revised: 8/11/2011
Map Phase: Pre-Review

Legend

- Miris Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ORV Trails
- ORV Trail
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)

Forest Stands

Level 3

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
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Non-Forest Stands

Level 3

- 622 - Lowland Shrub
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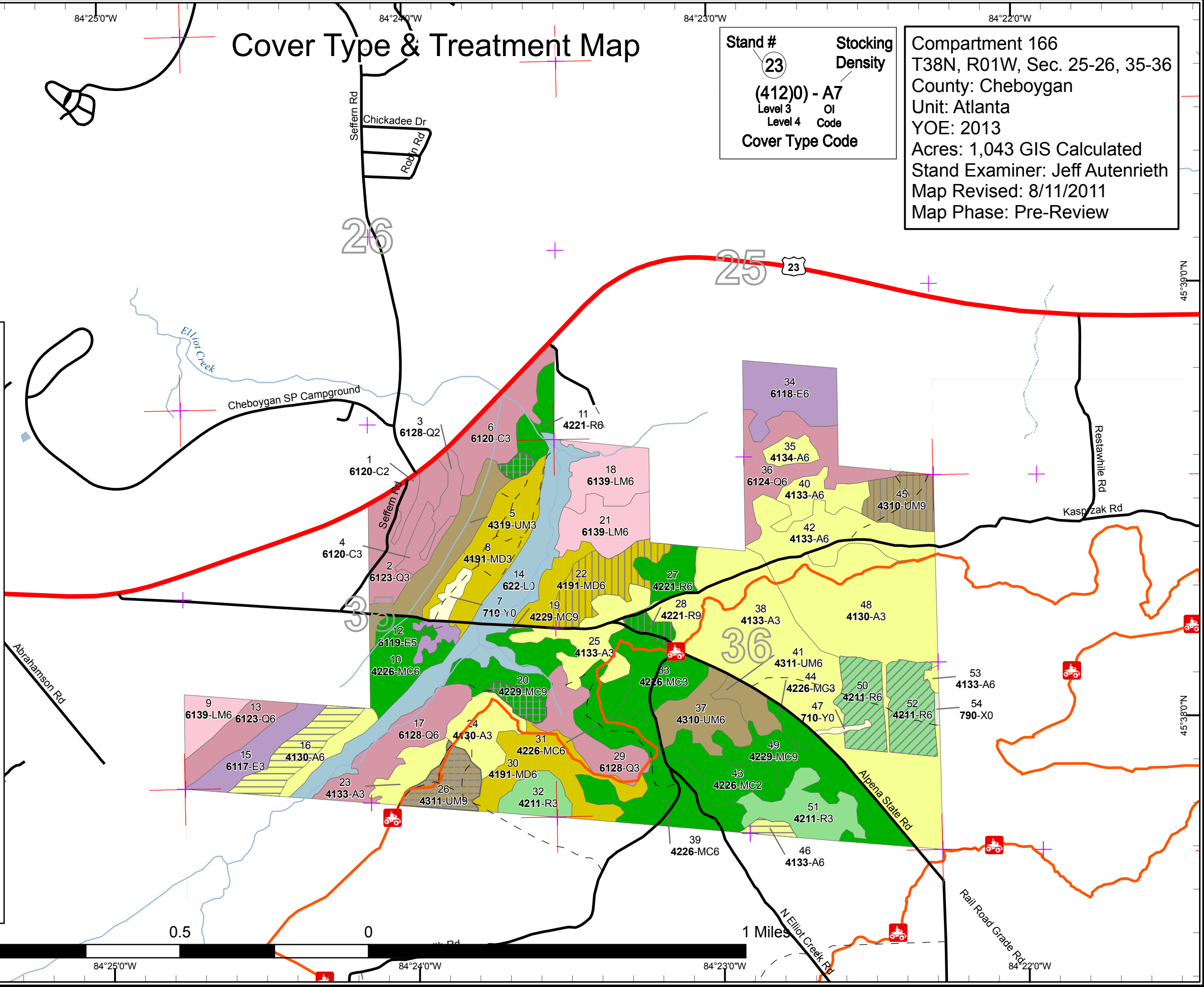


Table 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 166 Year of Entry 2013

Jeffrey Autenrieth : Examiner



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unretn Age
Aspen	0	80	100	22	40	38	0	1	27	0	0	0	0	0	0	308
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	3	0	0	0	0	0	0	30	0	0	0	0	34
Lowland Conifers	0	7	0	23	0	53	14	0	0	0	0	19	0	0	0	116
Lowland Deciduous	0	0	0	0	16	0	25	0	0	0	0	4	0	0	0	45
Lowland Mixed Forest	0	0	0	0	0	0	0	20	10	19	0	0	0	0	0	49
Lowland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Mixed Upland Deciduous	0	0	31	0	0	0	0	0	0	30	29	0	0	0	0	91
Natural Mixed Pines	0	0	0	0	19	46	57	20	24	0	0	0	0	0	0	166
Red Pine	0	0	0	0	32	0	35	11	0	0	4	12	0	0	0	94
Sand, Soil	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	23	0	0	8	20	15	14	0	0	0	0	0	80
Total	61	87	131	72	106	137	139	71	77	64	64	35	0	0	0	1043



Table 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2013

Compartment 166
Total Compartment Acres: 1043

Acres by Treatment Type

Commercial Harvest - 118	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	28	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	30	0	0	0	30
Natural Mixed Pines	0	0	6	0	0	0	0	6
Red Pine	0	0	3	4	17	0	0	24
Upland Mixed Forest	0	0	14	15	0	0	0	30
Total	28	0	23	50	17	0	0	118



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	54166011-Cut	2.7	42210 - Natural Red Pine	High Density Pole	101	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest stand to the south and west of Elliot Creek only! (about 6 acres) Cut all aspen, red maple, birch, and balsam fir regardless of merchantability. Thin the pines to 20-30BA. Retention will be left as an island that is 3-10% of the total sale area.</p> <p><u>Specs:</u></p> <p><u>Other</u> Acceptable regen can be mixed conifer and aspen.</p> <p><u>Comments:</u></p> <p><u>Next</u> Scarify with equipment.</p> <p><u>Steps:</u></p>									
16	54166016-Cut	24.2	4130 - Aspen	High Density Pole	70	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all aspen and balsam fir regardless of merchantability. Leave white pine saplings. The east side of the stand runs along Elliot Creek which is a cold water creek. Use appropriate buffers when setting up sale (300 feet). Buffer may cut the harvestable acres of this stand in half. (12 acres) Retention will be left as an island that is 3-10% of the total sale area.</p> <p><u>Specs:</u></p> <p><u>Other</u> Acceptable regen can be of mixed conifer and aspen. Include stand #2 in compartment 165 with this treatment.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>									
	54166020-Cut	5.6	6127 - Lowland Pine	High Density Log	70	Harvest	Seed Tree with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark red and white pine to 20-30ba. Cut all aspen, and balsam fir. Only the south east part of the stand is available for treatment (about 4 acres) due to the cold water stream buffer requirements (300 feet). The part that is unable to be cut will be the retention for this stand.</p> <p><u>Specs:</u></p> <p><u>Other</u> Acceptable regen can be of mixed conifer and aspen.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>									
22	54166022-Cut	30.4	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	85	Harvest	Shelter Wood with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all aspen, red maple, and balsam fir regardless of merchantability. Mark to thin red and white pine to 30-40BA. Elliot Creek runs on the west side of the stand and is a cold water stream. The appropriate buffer must be included in sale prep. Also do not damage any pine or cedar regeneration. Retention will be left as the uncut buffer area.</p> <p><u>Specs:</u></p> <p><u>Other</u> Acceptable regen can be mixed conifer and aspen.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>									
26	54166026-Cut	14.2	4311 - Pine, Aspen Mix	High Density Log	80	Harvest	Seed Tree with Reserves	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all aspen, red maple, cherry, and oak regardless of merchantability. Thin the red pine to 20-30ba. Retention will be left as an island that is 3-10% of the total sale area.</p> <p><u>Specs:</u></p> <p><u>Other</u> Acceptable regen can be of mixed conifer, oak and aspen.</p> <p><u>Comments:</u></p> <p><u>Next</u> Scarify mechanically.</p> <p><u>Steps:</u></p>									

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28 54166028-Cut	4.3	42210 - Natural Red Pine	High Density Log	92	Harvest	Shelter Wood with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Cut all red maple, black and pin oak. Thin pine to 30-50ba.

Specs:

Other Thick white pine understory, use shortwood spec to protect advanced regeneration.

Comments:

Next Steps:

45 54166045-Cut	15.3	4310 - Pine, Oak Mix	High Density Log	77	Harvest	Shelter Wood with Reserves	4311 - Pine, Aspen Mix	Cmpt. Review Proposal
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Prescription Cut all aspen, beech, and balsam fir regardless of merchantability. Thin the red and white pine and oak to 30-40ba. Retention will be left as an island that is 3-10% of the total sale area.

Specs:

Other Acceptable regen can be mixed conifer, oak and aspen.

Comments:

Next Steps:

46 54166046-Cut	2.9	4133 - Aspen, Mixed Pine	High Density Pole	77	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
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Prescription Cut all species regardless of merchantability. Retention will be left as an island that is 3-10% of the total sale area.

Specs:

Other Acceptable regen can be of mixed conifer, oak and aspen.

Comments:

Next Steps:

50 54166050-Cut	16.7	42110 - Planted Red Pine	High Density Pole	50	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Cut every third row starting from the exterior.. Retention will be in the trees not harvested in the stand.

Specs:

Other

Comments:

Next Steps:

**Total Treatment
Acreage Proposed: 116.4**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Medium Density	3.2	20		Stand swapped from Non-Forested to Forested.
2	6123 - Lowland Fir	High Density Sapling	23.2	20		
3	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	6.8	5		Lots of blow down. Small strip still standing along highway. Cedar cut? Check records.
4	6120 - Lowland Cedar	High Density Sapling	6.6	91		
5	4319 - Mixed Upland Forest	High Density Sapling	23.0	20		
6	6120 - Lowland Cedar	High Density Sapling	23.7	91		New Stand added.
8	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	31.1	10		
9	6139 - Mixed Lowland Forest	High Density Pole	10.3	75		Very wet. Ground has not frozen at time of this inventory. Stand 11 has a steep drop off on the north side into stand 9, which would make equipment access impossible.
10	42260 - Natural Pine, Mixed Deciduous	High Density Pole	20.3	60	111-140	New stand added.
11	42210 - Natural Red Pine	High Density Pole	12.1	101	51-80	New stand added.
12	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	4.2	100		Stand swapped from Non-Forested to Forested. Hard to find center of tree with borer. Lots of rings.
13	6123 - Lowland Fir	High Density Pole	14.0	57		
15	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	16.0	36		Very wet. Impassable as of 1/6/11. Ground not frozen.
16	4130 - Aspen	High Density Pole	24.2	70		
17	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	25.5	40		Wet. On the edge of creek/marsh/tag alder.
18	6139 - Mixed Lowland Forest	High Density Pole	19.5	65		Very wet. Ground has not frozen at time of this inventory. Stand 20 has a steep drop off on the north side into stand 19, which would make equipment access impossible.
19	42290 - Natural Mixed Pine	High Density Log	8.4	71		On a steep slope that runs down to the creek. Areas at bottom of slope are very wet.

S t a n d	Atlanta Mgt. Unit		5 – Forested Stands			Compartment: 166	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
20	42290 - Natural Mixed Pine	High Density Log	15.6	70	111-140		Only the ridge part of the stand is accessible to harvest. The rest is pretty wet.
21	6139 - Mixed Lowland Forest	High Density Pole	19.0	80			Very wet. Ground has not frozen at time of this inventory. Stand 20 has a steep drop off on the north side into stand 19, which would make equipment access impossible. Creek also runs along the west side of stand.
22	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	30.4	85			
23	4133 - Aspen, Mixed Pine	High Density Sapling	10.5	35			Small diameter aspen. Steep ridges.
24	4130 - Aspen	High Density Sapling	16.8	39			
25	4133 - Aspen, Mixed Pine	High Density Sapling	22.4	28			Cedar/bf found in one small drainage in middle of stand. Check cutting record for age.
26	4311 - Pine, Aspen Mix	High Density Log	14.2	80	51-80		Old 2nd thin pine plantation? Look for records.
27	42210 - Natural Red Pine	High Density Pole	10.6	64	111-140		
28	42210 - Natural Red Pine	High Density Log	4.3	92	81-110		
29	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	19.0	100			Creek runs the length of the stand.
30	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	29.3	98	51-80		Steep drop-off on north boundary of stand.
31	42260 - Natural Pine, Mixed Deciduous	High Density Pole	18.9	45			
32	42111 - Planted Red Pine, Mixed Deciduous	High Density Sapling	10.9	30			
33	42260 - Natural Pine, Mixed Deciduous	High Density Sapling	22.8	44			
34	6118 - Lowland Deciduous with Cedar	High Density Pole	24.5	50			
35	4134 - Aspen, Spruce/Fir	High Density Pole	5.5	44			Wet. Not suitable for equipment. Low volumes.
36	6124 - Lowland Spruce-Fir	High Density Pole	27.4	40			Very wet.



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Atlanta Mgt. Unit

5 – Forested Stands

Compartment: 166
Year of Entry: 2013

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4310 - Pine, Oak Mix	High Density Pole	19.6	69		Low volumes. Decent pine regen.
4133 - Aspen, Mixed Pine	High Density Sapling	80.3	6		Check cutting record for age.
42260 - Natural Pine, Mixed Deciduous	High Density Pole	27.3	50		Some white and red pine logs.
4133 - Aspen, Mixed Pine	High Density Pole	12.5	30		
4311 - Pine, Aspen Mix	High Density Pole	7.9	51		
4133 - Aspen, Mixed Pine	High Density Pole	32.4	40		
42260 - Natural Pine, Mixed Deciduous	Medium Density	18.9	36		Poor soils? Sparse tree cover.
42260 - Natural Pine, Mixed Deciduous	High Density Sapling	4.2	44		Some pockets of mature aspen. Pine is dense in most places.
4310 - Pine, Oak Mix	High Density Log	15.3	77	81-110	
4133 - Aspen, Mixed Pine	High Density Pole	2.9	77		Very wet. Ground has not frozen at time of this inventory. Stand 11 has a steep drop off on the north side into stand 9, which would make equipment access impossible.
4130 - Aspen	High Density Sapling	99.7	17		
42290 - Natural Mixed Pine	High Density Log	30.1	52	141-170	Pockets of white pine and smaller diameter red pine.
42110 - Planted Red Pine	High Density Pole	16.7	50	141-170	This stand should be thinned
42111 - Planted Red Pine, Mixed Deciduous	High Density Sapling	20.6	39		Very poor site, sandy soils.
42110 - Planted Red Pine	High Density Pole	18.8	50	171-200	This stand should be thinned.
4133 - Aspen, Mixed Pine	High Density Pole	1.2	69	51-80	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	710 - Sand, Soil	4.3	No	Unspecified	Illegal scramble area
14	6220 - Alder/willow	54.2	No	Unspecified	
47	710 - Sand, Soil	1.3	N/A	Unspecified	
54	790 - Other Bare/Sparsely Vegetate	0.7	No	Unspecified	



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
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8 – 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
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.