



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 130

Entry Year 2016

Acreage: 1,716

County Presque Isle

Management Area: Thunder Bay Outwash

Revision Date: 10/28/2014

Stand Examiner: Jeff Autenrieth

Legal Description:

T33N-R4E Sections 26-28 & 33-35

Identified Planning Goals:

Timber and Wildlife habitat. The uplands are to be managed for a mixture of aspen, oak and pine. The lowlands to be manage for swamp complex species.

Soil and topography:

Uplands range from Grayling, Graycalm and Rubicon to small areas of Emmet sands. Lowlands are Roscommon and Lupton mucks. Rolling oak and aspen hills on each side of a large swamp complex in the center of the compartment.

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

Farm lands are to the south and the east, hunting camps are to the north and State lands are to the west. Several trespasses have been located in this compartment, a few that were discovered ten or more years ago without resolution, including a structure.

Unique Natural Features:

Marl beds and Marl lakes.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species. Featured species in this compartment include black bear, ruffed grouse, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest; the retention of large, over-mature trees and snags; and the maintenance and expansion of hard-mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 0 and 10 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is quarried for limestone and cement products eighteen miles to the southeast. Gravel pits are located one mile to the south and potential is good on the upland areas. This area is located south of the current Niagaran reef trend and north of the Antrim Shale play. None of the State land is currently leased for oil and gas development and potential is limited.

Vehicle Access:

Vehicle access is limited in western part of compartment due to wet soils. Royston rd, and C.R. 634 are main roads that pass through the north and western areas. Huntley rd and Bismark rd pass through the eastern area of the compartment and are poor dirt county roads. Other access in the compartment is utilized by state forest two-tracks and closed/abandoned roads.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Hunting, trapping, and fishing are available in the compartment. There are no recreational trails within the compartment.

Fire Protection:

Some fires have occurred in the area. Access is limited for fire equipment due to wet soils and closed roads.

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

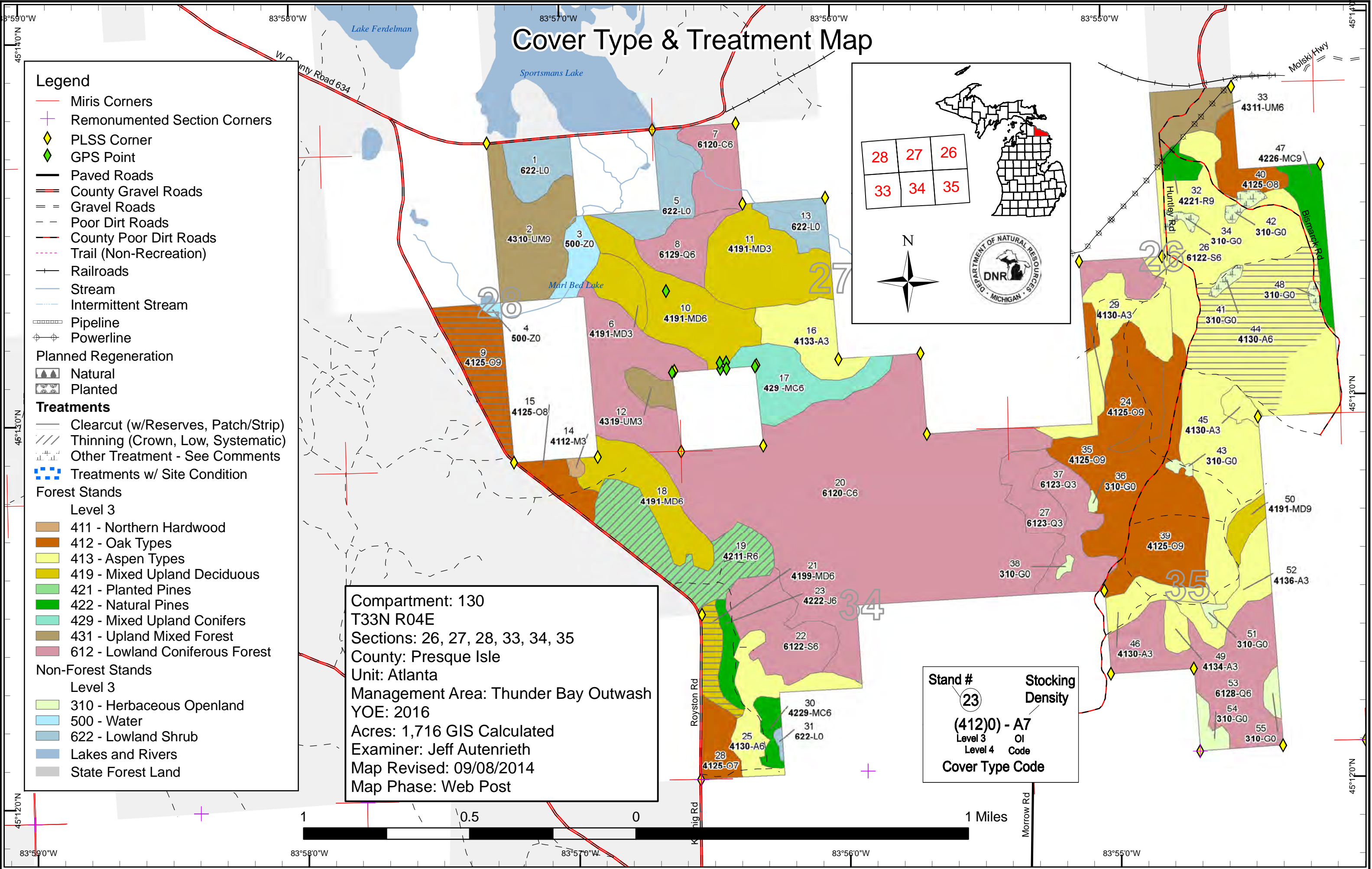
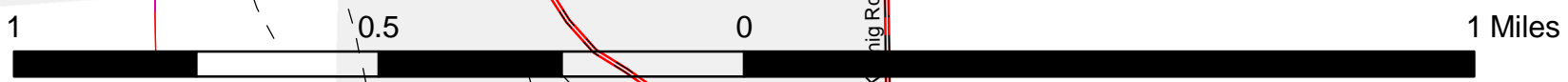
Legend

- Miris Corners
- + Remonumented Section Corners
- ◆ PLSS Corner
- ◆ GPS Point
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Railroads
- Stream
- Intermittent Stream
- Pipeline
- Powerline
- Planned Regeneration**
- Natural
- Planted
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Other Treatment - See Comments
- Treatments w/ Site Condition
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes and Rivers
- State Forest Land

Compartment: 130
T33N R04E
Sections: 26, 27, 28, 33, 34, 35
County: Presque Isle
Unit: Atlanta
Management Area: Thunder Bay Outwash
YOE: 2016
Acres: 1,716 GIS Calculated
Examiner: Jeff Autenrieth
Map Revised: 09/08/2014
Map Phase: Web Post

Stand #
23

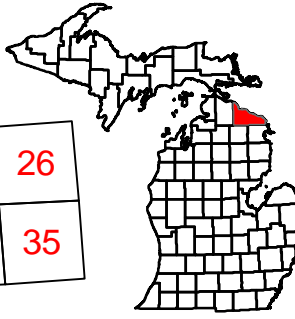
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Stand Boundary Map



Legend

- Miris Corners
- + Remonumented Section Corners
- ◆ PLSS Corner
- ◆ GPS Point
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
- · - · - Trail (Non-Recreation)
- + Railroads
- Stream
- · - · - Intermittent Stream
- ▬▬▬▬▬▬ Pipeline
- ⊕ Powerline
- ▭ Stand Boundaries



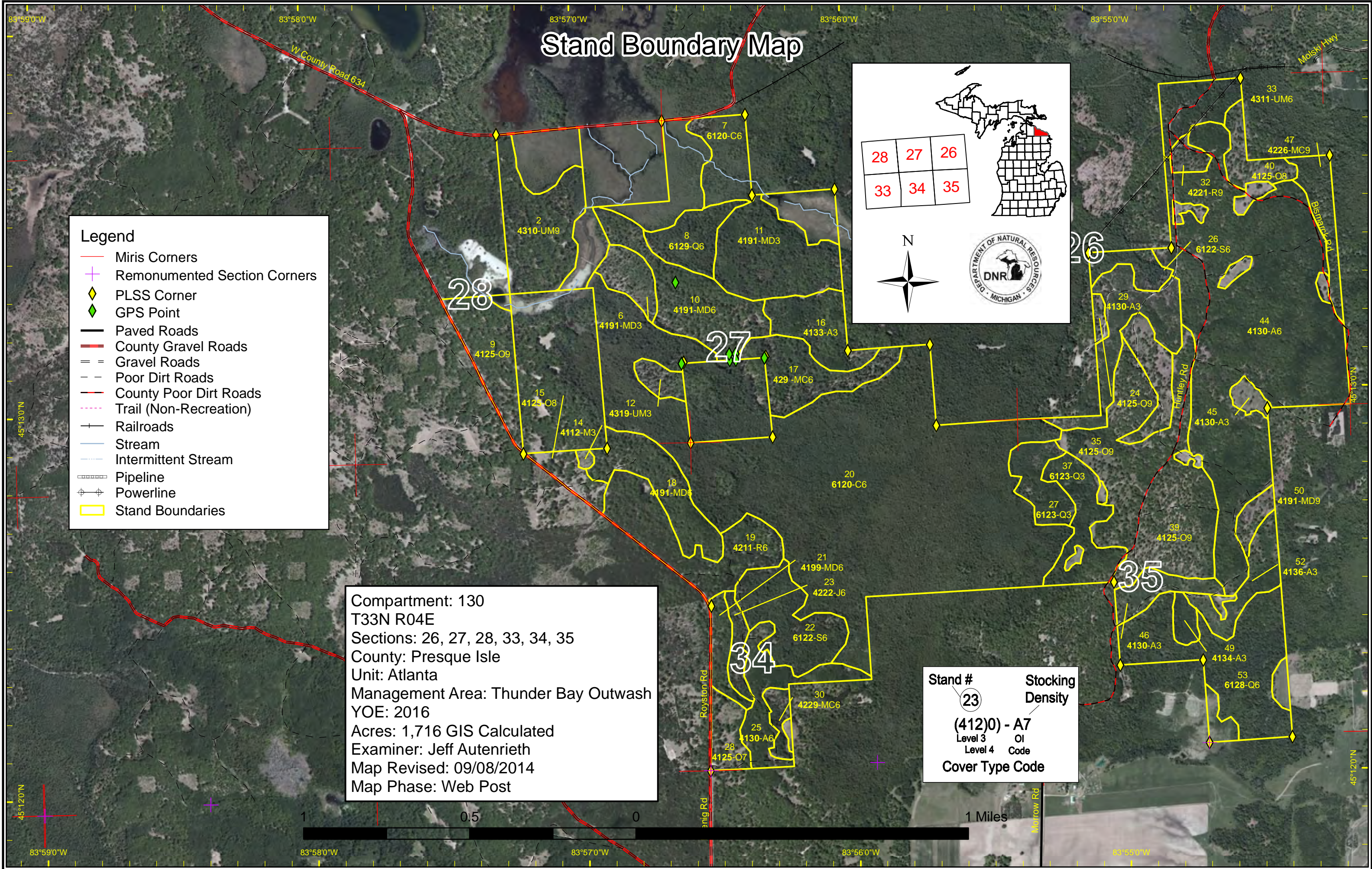
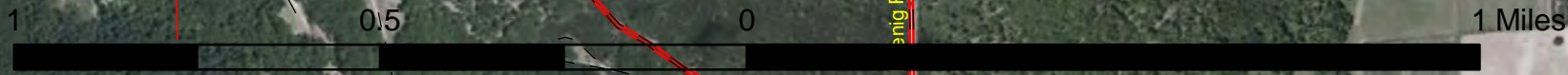
28	27	26
33	34	35

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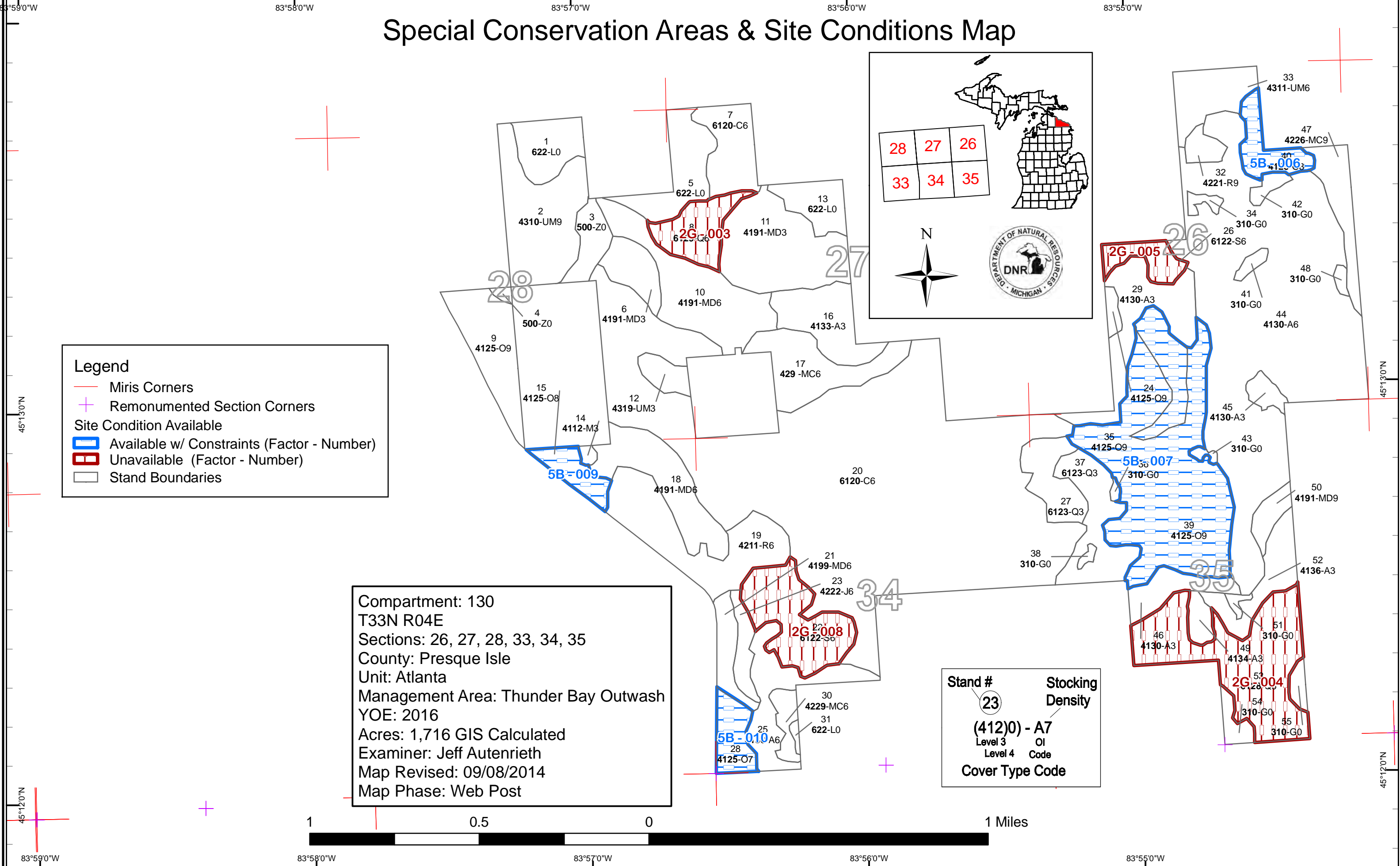



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Stand #	Stocking Density
23	
(412)0 - A7	
Level 3 OI	
Level 4 Code	
Cover Type Code	



Special Conservation Areas & Site Conditions Map



Legend

- Miris Corners
- ⊕ Remonumented Section Corners
- Site Condition Available
- ▨ Available w/ Constraints (Factor - Number)
- ▨ Unavailable (Factor - Number)
- Stand Boundaries

Compartment: 130
 T33N R04E
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 County: Presque Isle
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 Acres: 1,716 GIS Calculated
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 Map Phase: Web Post

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

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	5	15	37	0	330	0	0	0	0	0	0	0	0	0	387
Cedar	0	0	0	0	0	0	0	0	0	24	0	410	0	0	434
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Jack Pine	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	19	30	0	0	0	0	73	22	0	0	0	145
Lowland Shrub	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	40	12	0	0	0	0	52
Mixed Upland Deciduous	0	15	0	0	53	0	0	0	85	19	0	0	0	0	173
Natural Mixed Pines	0	0	0	0	0	7	18	0	0	0	0	0	0	0	25
Northern Hardwood	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Oak	0	0	0	0	0	0	0	120	44	52	0	0	0	0	216
Red Pine	0	0	0	0	6	51	0	0	0	0	0	0	0	0	57
Upland Conifers	0	0	0	0	0	0	0	34	0	0	0	0	0	0	34
Upland Mixed Forest	0	8	22	0	0	0	0	0	0	50	0	0	0	0	80
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Total	110	37	58	29	420	58	18	154	170	230	22	410	0	0	1716



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2016

Compartment 130
Total Compartment Acres: 1,716

Acres by Treatment Type

Commercial Harvest - 174 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 11

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen Types	79	0	0	0	0	0	79
Mixed Upland Deciduous	12	0	0	0	0	0	12
Oak Types	32	0	0	0	0	0	32
Planted Pines	0	0	0	0	51	0	51
Total	123	0	0	0	51	0	174



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	54130009-Cut	32.4	4125 - Black, N. Pin Oak	High Density Log	80	51-80	Harvest	Clearcut	4125 - Black, N. Pin Oak	Cmpt. Review Proposal

Prescription Final Harvest. Cut all trees 2" and bigger. Mark to leave a few scattered white oak. Buffer wet area in north east part of stand.

Specs:

Other

Comments:

Next Acceptable regen can be of medium/well stocked mixed oak, aspen, or maple.

Steps:

Proposed

Start Date: 10/01/2015

19	54130019-Cut	50.6	42110 - Planted Red Pine	High Density Pole	51	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2015

21	54130021-Cut	11.7	4199 - Other Mixed Upland Deciduous	High Density Pole	94	141-170	Harvest	Clearcut	4121 - Oak, Aspen	Cmpt. Review Proposal
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Prescription Final harvest. Cut all trees 2" and bigger.

Specs:

Other

Comments:

Next Acceptable regen can be of medium/well stocked mixed oak, aspen, maple, and pine.

Steps:

Proposed

Start Date: 10/01/2015

44	54130044- Cut_small	78.9	4130 - Aspen	High Density Pole	45		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Final harvest. Cut all trees 2" and bigger. Mark scattered pine to leave. Only cut approximately 1/3 of the stand acreage.

Specs:

Other

Comments: Stand cut to break up aspen age class.

Next Acceptable regen can be of medium/well stocked aspen, oak, pine, and maple.

Steps:

Proposed

Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	NF_54130034- NonFor	2.7	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
41	NF_54130041- NonFor	2.7	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
42	NF_54130042- NonFor	3.8	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
48	NF_54130048- NonFor	1.8	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										

**Total Treatment
Acreage Proposed: 184.6**

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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!

PrescriptionSpecs:OtherComment:NextSteps:ProposedStart Date: #Type!Limiting Factor

Total Treatment Acreage Proposed:	0.0
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Report 5 – Site Conditions

Atlanta Mgt. Unit
Jeff Autenrieth : Examiner

Compartment 130
Year of Entry 2016

Availability for Management

Availability for Management			Dominant Site Conditions		
Total Acres	Acres Available	Acres Not Available			
			No	5B	2G
387	387		Aspen	387	
434	434		Cedar	434	
9	9		Jack Pine	9	
145	50	95	Lowland Conifers	50	95
52		52	Lowland Spruce/Fir		52
173	173		Mixed Upland Deciduous	173	
25	25		Natural Mixed Pines	25	
2	2		Northern Hardwood	2	
216	216		Oak	36	180
57	57		Red Pine	57	
34	34		Upland Conifers	34	
80	80		Upland Mixed Forest	80	
1,613	1,466	147	Total Forested Acres	1,286	180
	91%	9%	Relative Percent		147

**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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	22	1C: Other dept or div proc/practices	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)		
<p>Comments: Stand was retained in previous inventory for visual management. Soils are wet, and access would be difficult.</p>							
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	73				
<p>Comments:</p>							

Report 5 – Site Conditions

Atlanta Mgt. Unit
Jeff Autenrieth : Examiner

Compartment 130
Year of Entry 2016

005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12
Comments:			
006	Available	5B: Maintain for regeneration purposes	15
Comments:			
This stand was treated with a species removal harvest. There is significant regeneration under the low density canopy.			
007	Available	5B: Maintain for regeneration purposes	139
Comments:			
Stand had a species removal harvest. There is mature oak in the canopy at a low density. There is significant regeneration under that canopy.			
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	40
Comments:			
009	Available	5B: Maintain for regeneration purposes	12
Comments:			
Stand had a species removal cut. Understory is dense advanced regen.			
010	Available	5B: Maintain for regeneration purposes	15
Comments:			
Stand has had a species removal harvest. Understory is dense advanced regen.			



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				
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Report 7 – 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 130
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4310 - Pine, Oak Mix	High Density Log	50.5	94	81-110	Possible species removal cut in past. 54-041-97-01 Serpentine Shelterwood. Old oak but doing very well.
6	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	14.7	16		New stand added. Recent harvest.
7	6120 - Lowland Cedar	High Density Pole	23.7	90		Some blowdown. Stand is very wet. Saturated muck soils with standing and running water.
8	6129 - Mixed Coniferous Lowland Forest	High Density Pole	21.6	104		
9	4125 - Black, N. Pin Oak	High Density Log	32.4	80	51-80	Stand has steep slopes down to east. Only a portion would be managable. Poor quality oak. Previous oak thinning/red maple removal harvest.
10	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	49.4	85	81-110	Stand has had a harvest. Species removal.
11	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	53.5	43	1-50	New stand added. Basal area for large pines only, scattered throughout stand.
12	4319 - Mixed Upland Forest	High Density Sapling	8.0	16		
14	4112 - Maple, Beech, Cherry Association	High Density Sapling	1.6	5		New stand added. Old landing location.
15	4125 - Black, N. Pin Oak	Medium Density Log	11.8	85	1-50	New stand added. Red maple removal cut in past.
16	4133 - Aspen, Mixed Pine	High Density Sapling	28.5	40		Wet areas causing stunted growth. Poor quality.
17	429 - Mixed Upland Conifers	High Density Pole	34.0	70	111-140	New stand added. Has had a harvest. Illegal cutting of trees occuring. Very limited access. Hard to get a good ba due to size class distribution.
18	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	35.9	84	81-110	Recent species removal harvest. Steep down slope to east.
19	42110 - Planted Red Pine	High Density Pole	50.6	51	141-170	Stand has not been thinned.
20	6120 - Lowland Cedar	High Density Pole	410.3	110		Some areas of blowdown. Scattered ridges where white pine are growing.
21	4199 - Other Mixed Upland Deciduous	High Density Pole	11.7	94	141-170	Stand is on steep slopes. May be harvestable but buffers road from lowland area down hill.
22	6122 - Black Spruce	High Density Pole	40.3	82		Some blowdown. Wet soils. Pockets of tag alder in open areas.

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 130
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42220 - Natural Jack Pine	High Density Pole	9.1	34	51-80	Aspen (young) on both sides of stand.
24	4125 - Black, N. Pin Oak	High Density Log	3.3	90	1-50	New stand added. Species removal cut in past.
25	4130 - Aspen	High Density Pole	29.1	40		
26	6122 - Black Spruce	High Density Pole	11.9	90		Stand slopes down to wetter soils to the north and west. Cedar found in wetter areas. Aspen found in higher part of stand.
27	6123 - Lowland Fir	High Density Sapling	19.5	31		
28	4125 - Black, N. Pin Oak	Low Density Log	14.4	94	1-50	Species removal cut done in past.
29	4130 - Aspen	High Density Sapling	36.6	21		
30	42290 - Natural Mixed Pine	High Density Pole	7.3	50		Stand is buffer between adjacent harvest in past and lowland area.
32	42210 - Natural Red Pine	High Density Log	6.0	44	81-110	New stand added.
33	4311 - Pine, Aspen Mix	High Density Pole	21.9	29		
35	4125 - Black, N. Pin Oak	High Density Log	18.9	90	51-80	New stand added. Aspen regen encroaching from adjacent sales.
37	6123 - Lowland Fir	High Density Sapling	30.5	44		Wet soils
39	4125 - Black, N. Pin Oak	High Density Log	120.0	79	51-80	Stand basal areas vary. Recent species removal cuts to remove aspen and red maple. Regen reflects this.
40	4125 - Black, N. Pin Oak	Medium Density Log	15.1	90	1-50	New stand added. Species removal harvest in past. Low BA with pockets of higher BA.
44	4130 - Aspen	High Density Pole	245.6	45		
45	4130 - Aspen	High Density Sapling	5.4	5		New stand added. Recent harvest.
46	4130 - Aspen	High Density Sapling	14.8	16		New stand added.
47	42260 - Natural Pine, Mixed Deciduous	High Density Log	18.0	65	1-50	Stand varies in density. Should hold 1 more cycle.

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 130
Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4134 - Aspen, Spruce/Fir	High Density Sapling	6.3	43		
50	4191 - Mixed Upland Deciduous with Conifer	High Density Log	7.5	90	51-80	New stand added. Low density in areas.
52	4136 - Aspen, Mixed Conifer	High Density Sapling	20.8	43		
53	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	73.2	92		Some blowdown in areas. Tag alder in areas that are open or blow down had occurred.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6229 - Mixed lowland shrub	19.6	No	Unspecified	
3	50 - Water	12.1	No	Unspecified	
4	50 - Water	1.4	No	Unspecified	
5	6229 - Mixed lowland shrub	26.7	No	Unspecified	
13	6229 - Mixed lowland shrub	15.5	No	Unspecified	
31	6229 - Mixed lowland shrub	1.1	No	Unspecified	
34	3102 - Grass	2.7	Unspecified	Unspecified	
36	3102 - Grass	1.0	Unspecified	Unspecified	
38	3102 - Grass	1.3	Unspecified	Unspecified	
41	3102 - Grass	2.7	No	Unspecified	
42	3102 - Grass	3.8	No	Unspecified	
43	3102 - Grass	1.6	No	Unspecified	
48	3102 - Grass	1.8	No	Unspecified	
51	3102 - Grass	1.7	Unspecified	Unspecified	
54	3102 - Grass	5.7	No	Unspecified	
55	3102 - Grass	3.9	No	Unspecified	