



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 10

Entry Year 2015

Acreage: 1,486

County Montmorency

Management Area: Avery Hills

Revision Date: 10/31/2013

Stand Examiner: Chad Fate

Legal Description:

Sections 20, 21, 28 & 33, T29N-R2E

Identified Planning Goals:

Timber and wildlife habitat along with snowmobile and ORV trails.

Soil and topography:

Loamy sands to outwash sands. Topography is rolling with dead ice features causing many small ponds. Some are permanent and some are seasonal. Some are large enough to map, while others are part of their parent stands, and they are noted in the comments.

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

This compartment is a long, narrow strip of State land with private residential properties on the east and west sides. State land exists to the north, south, north east, south east, and south west.

Unique Natural Features:

There are numerous small ponds, and the potential for Red Shouldered Hawk and Loons. There are occurrences or the potential of unique natural features near by or in surrounding compartments.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment receives significant hunting pressure from deer and turkey hunters. Featured species include white-tailed deer, wild turkey, and ruffed grouse. Openings that have not been developed should be maintained to provide hunting and viewing opportunities as well as habitat for featured species. Timber harvests should promote early successional habitat with some residual mast trees.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium-textured till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no known economic use for the Coldwater Shale. The nearest gravel pits are located in Section 22. There should be good gravel potential on the upland areas. This area has been drilled and is producing gas from the Antrim Shale.

Vehicle Access:

There are numerous county roads that can be used to access this compartment along with a network of state forest roads, snowmobile trails, and gas well roads throughout the compartment. The snowmobile trail to the south of Big Wolf Lake Road is gated and only open during snowmobile season.

Survey Needs:

Recreational Facilities and Opportunities:

ORV trail, MCCT trail, Snowmobile trail, Mushrooming, deer hunting, and other small game 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**

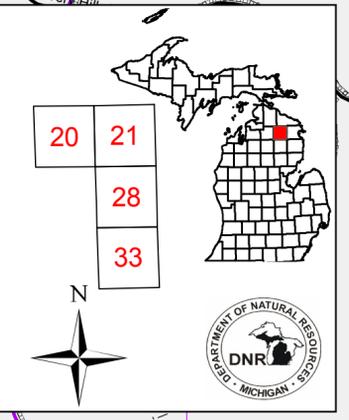
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

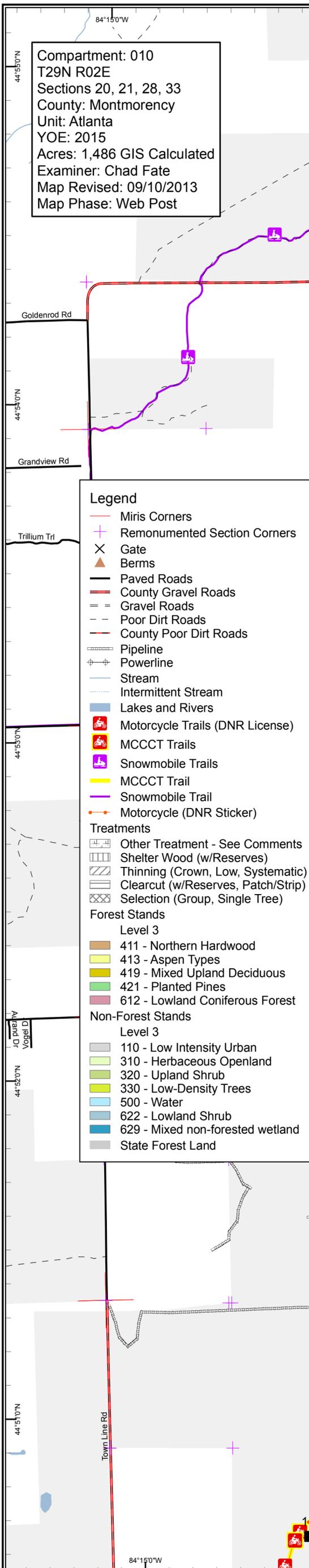
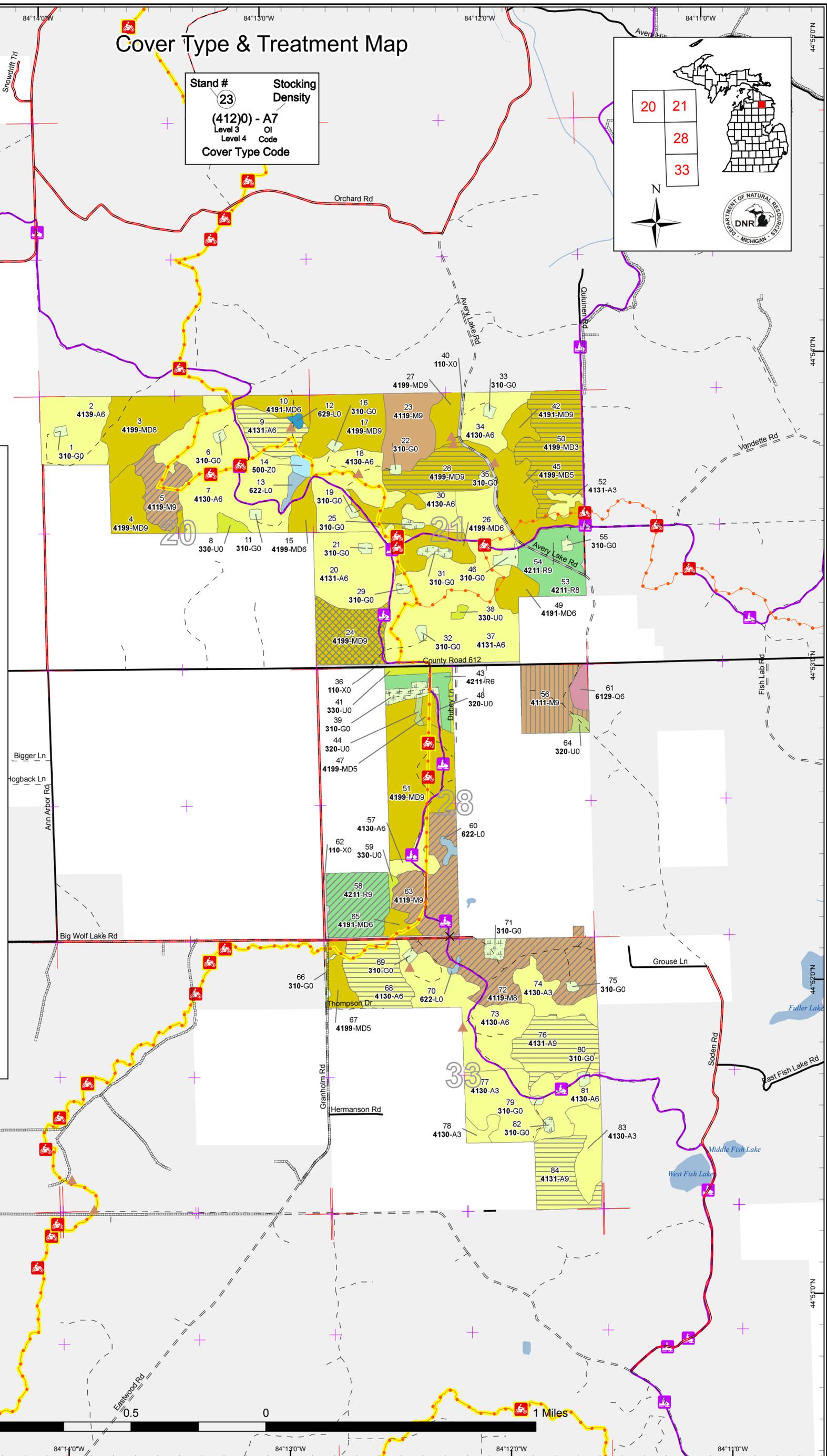
Compartment: 010
 T29N R02E
 Sections 20, 21, 28, 33
 County: Montmorency
 Unit: Atlanta
 YOY: 2015
 Acres: 1,486 GIS Calculated
 Examiner: Chad Fate
 Map Revised: 09/10/2013
 Map Phase: Web Post

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



Legend

- Miris Corners
 - + Remonumented Section Corners
 - X Gate
 - ▲ Berms
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - - - Poor Dirt Roads
 - - - County Poor Dirt Roads
 - Pipeline
 - Powerline
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
 - 🏍️ Motorcycle Trails (DNR License)
 - 🏍️ MCCCT Trails
 - 🏍️ Snowmobile Trails
 - MCCCT Trail
 - Snowmobile Trail
 - Motorcycle (DNR Sticker)
- Treatments**
- ▨ Other Treatment - See Comments
 - ▨ Shelter Wood (w/Reserves)
 - ▨ Thinning (Crown, Low, Systematic)
 - ▨ Clearcut (w/Reserves, Patch/Strip)
 - ▨ Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 110 - Low Intensity Urban
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland
 - State Forest Land

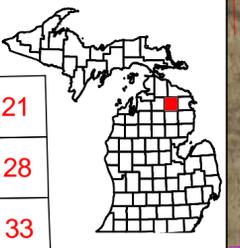


Stand Boundary Map

Compartment: 010
 T29N R02E
 Sections 20, 21, 28, 33
 County: Montmorency
 Unit: Atlanta
 YOE: 2015
 Acres: 1,486 GIS Calculated
 Examiner: Chad Fate
 Map Revised: 09/10/2013
 Map Phase: Web Post

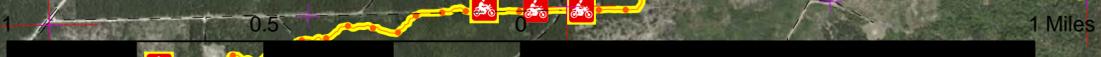
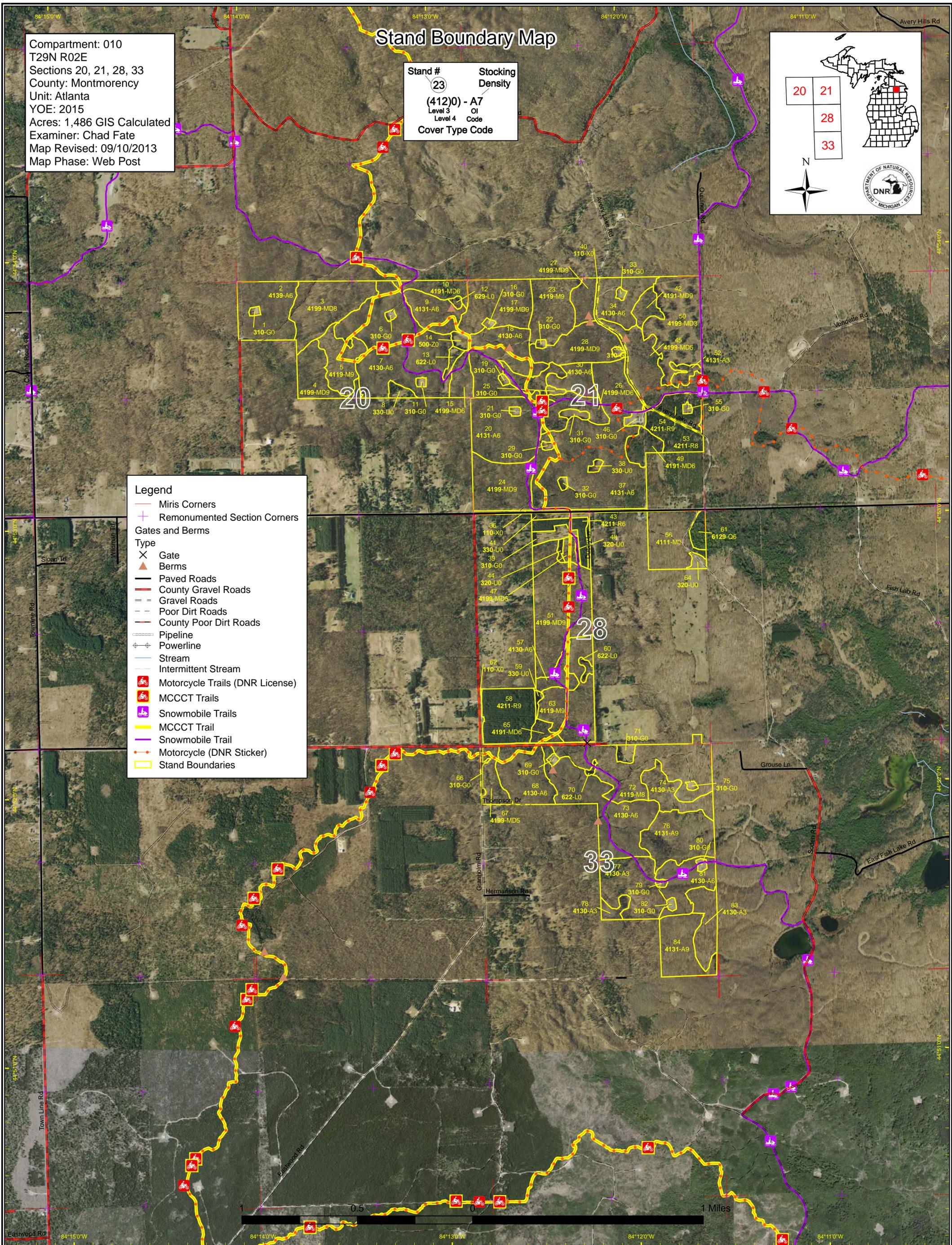
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

20	21
	28
	33



Legend

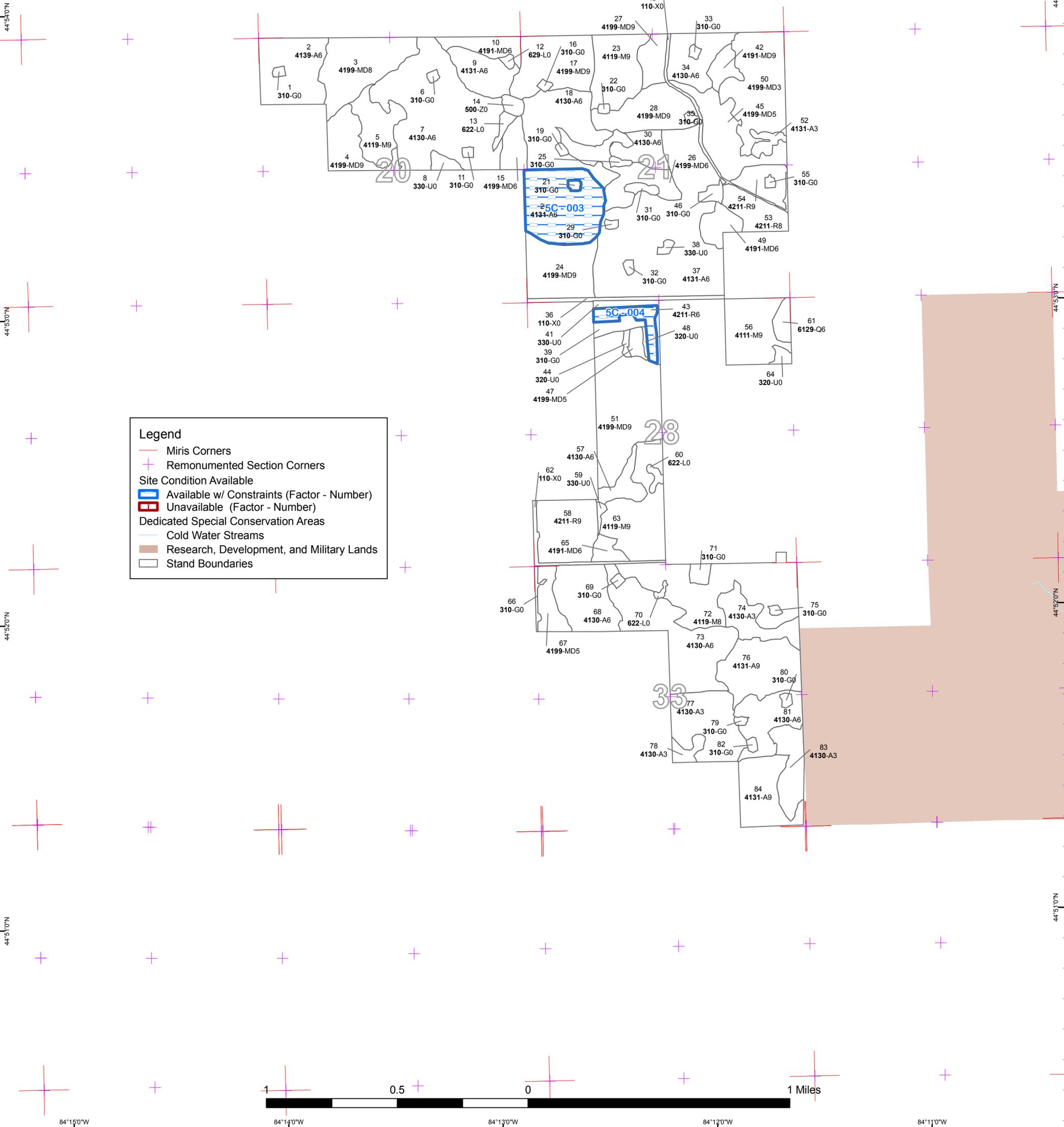
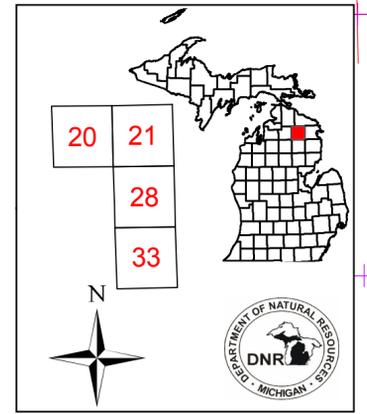
- Miris Corners
- + Remonumented Section Corners
- Gates and Berms**
- Type**
- X Gate
- ▲ Berms
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Pipeline
- Powerline
- Stream
- Intermittent Stream
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- 🏍️ Snowmobile Trails
- 🏍️ MCCCT Trail
- 🏍️ Snowmobile Trail
- 🏍️ Motorcycle (DNR Sticker)
- 🏍️ Stand Boundaries



Compartment: 010
 T29N R02E
 Sections 20, 21, 28, 33
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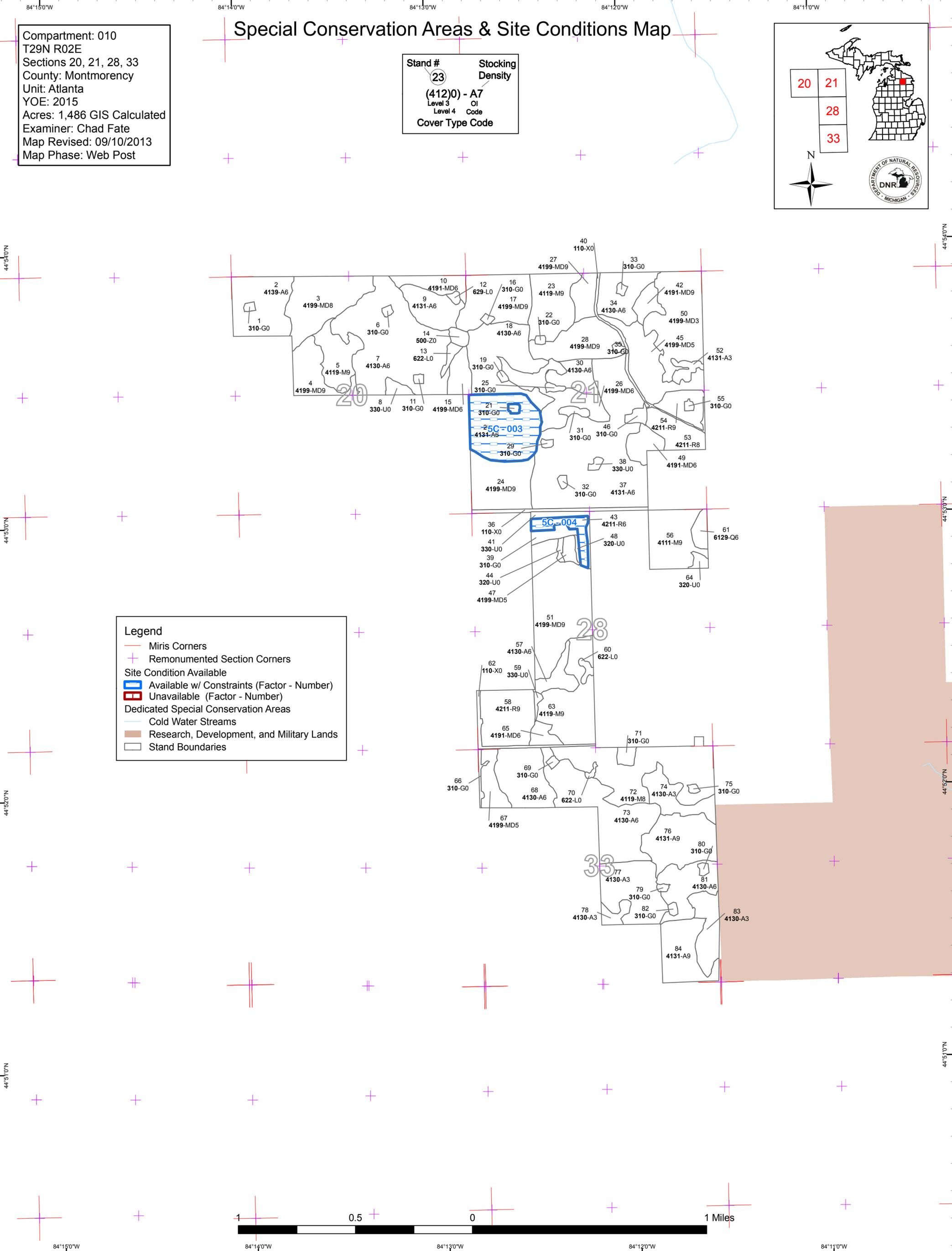
Special Conservation Areas & Site Conditions Map

Stand #
 23
Stocking Density
 (412)0 - 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 Streams
- Research, Development, and Military Lands
- 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	87	205	14	271	33	0	20	68	0	0	0	0	0	699
Herbaceous Openland	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	52	0	0	33	0	13	0	120	209	0	0	0	0	0	426
Northern Hardwood	0	0	0	0	0	0	0	97	100	0	0	0	0	0	197
Red Pine	0	0	0	0	0	44	31	0	0	0	0	0	0	0	75
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	135	87	205	47	277	90	31	237	377	0	0	0	0	0	1486



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2015

Compartment 010
Total Compartment Acres: 1,486

Acres by Treatment Type

Commercial Harvest - 439 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 15

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	121	0	0	0	0	0	121
Mixed Upland Deciduous	82	36	0	0	0	0	118
Northern Hardwood	0	0	0	32	134	0	166
Planted Pines	0	0	0	0	34	0	34
Total	204	36	0	32	168	0	439



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	54010005-Cut	22.5	4119 - Mixed Northern Hardwoods	High Density Log	77	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80 BA residual. Focus on releasing crop trees. use trail specs.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
9	54010009-Cut	20.3	4131 - Aspen, Oak	High Density Pole	72		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut, leave one retention pocket. In addition, leave 2-3 mature oaks in clumps per acre. Use grouse log spec. use trail specs.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Acceptable regeneration is a well stocked stand of aspen with oak mixed in.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
24	54010024-Cut	35.6	4199 - Other Mixed Upland Deciduous	High Density Log	78	111-140	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80BA. Retain oaks with dominant crowns. Put in 1-2 regen gaps per 5 acres. Use trail specs.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Acceptable regen in the gaps is oak with mixed hardwoods.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
28	54010028-Cut	30.7	4199 - Other Mixed Upland Deciduous	High Density Log	86	81-110	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut, in addition to a retention island also leave 2-3 mature oaks per acre in clumps. Use trail specs. and use grouse log spec.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Acceptable regen is a well stocked stand of aspen and oak with some mixed hardwoods present.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
50	54010050-Cut	51.7	4199 - Other Mixed Upland Deciduous	High Density Sapling	3		Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut retention pockets except retain 3% min. as retention from the original stand along the east edge. Sale acres will be approx. 8-9 acres. Use trail specs.										
<u>Specs:</u>										
<u>Other</u> Approx 20% (10 acres) were left in pockets for retention after the cut in 2010. MO is RP and there are no RP regeneration present. Lots of										
<u>Comments:</u> cherry and a little oak and red maple regen throughout.										
<u>Next</u> Follow up treatment as necessary;										
<u>Steps:</u> burn, herbicide, rollerchop, etc. then trench/plant.										
<u>Proposed</u>										
<u>Start Date:</u> 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
56	54010056-Cut	31.7	4111 - S.Maple, Hard Mast Association	High Density Log	81	111-140	Harvest	Shelter Wood with Reserves	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood, leave 40-50BA retaining large crown sugar maple and red oaks. Protect areas of sugar maple regen (saps and poles) in the regen										
<u>Specs:</u> gaps from the last harvest.										
<u>Other</u> There is a wet seep in the middle of the stand, stay out of this and protect it. Mark the stand so that skid trails can be formed strategically to										
<u>Comments:</u> protect areas of sugar maple regen.										
<u>Next</u> Acceptable regen is sugar maple with red oak and other mixed hardwoods present.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
58	54010058-Cut	33.7	42110 - Planted Red Pine	High Density Log	59	200+	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin from below, focus on releasing the more dominant trees. Do not remove more than 1/3 of the total BA. Use shortwood operation										
<u>Specs:</u>										
<u>Other</u> There are a few rows that were removed from the last thinning that contain thick RP regen, protect these rows and mark trees so that they can										
<u>Comments:</u> be removed from the adjacent row.										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
63	54010063-Cut	42.9	4119 - Mixed Northern Hardwoods	High Density Log	72	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80 BA. stay off the steep slopes surrounding the potholes in the north central part of the stand. Use trail specs.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
68	54010068-Cut	33.1	4130 - Aspen	High Density Pole	51		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut, leave clumps of 3 mature oaks per acre where oaks are present. Leave all large diameter red and white pines along Wolf Lake Rd. for										
<u>Specs:</u> "Legacy" trees and aesthetics. Use trail specs. Use grouse log spec.										
<u>Other</u> Hunt Creek Motorcycle trail goes through the north portion of the stand. There's also an old railway that runs through the stand.										
<u>Comments:</u>										
<u>Next</u> Acceptable regen is a well stocked stand of aspen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
72	54010072-Cut	68.5	4119 - Mixed Northern Hardwoods	Medium Density Log	86	111-140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80 BA. Remove all beech except leave 1-2 per acre. Use trail specs.										
<u>Specs:</u>										
<u>Other</u> there is a square 1 acre parcel on the north edge of the stand acquired in 1985. Consider disposal.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 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
76	54010076-Cut	38.5	4131 - Aspen, Oak	High Density Log	85		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut and leave 2-3 dominant oaks per acre in clumps. Leave retention pockets on steep slopes and protect vernal ponds in the center of the stand. Cut in dry summer due to slopes and seasonal water run off. Use trail specs. for access road. Use grouse log spec.										
<u>Specs:</u>										
<u>Other</u> Access can be from the south and west.										
<u>Comments:</u>										
<u>Next</u> acceptable regen is a well stocked stand of aspen and oak.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
84	54010084-Cut	29.5	4131 - Aspen, Oak	High Density Log	80		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Clearcut, leave 2-3 mature oaks per acre in clumps. Use trail specs. and use grouse log spec.										
<u>Specs:</u>										
<u>Other</u> Access to the north on snowmobile trail. Look into possible access from the south through compartments 24 and 25 of Grayling Unit.										
<u>Comments:</u>										
<u>Next</u> acceptable regen is a well stacked aspen stand with an oak component.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
25	NF_54010025- NonFor	1.5	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Maintain opening using mechanical methods or fire.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor and treat on rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
31	NF_54010031- NonFor	2.7	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Maintain opening using mechanical methods or fire.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor and treat on rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
39	NF_54010039- NonFor	5.9	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Maintain opening using mechanical methods or fire										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor and treat on rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71 NF_54010071-NonFor	3.7	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal

Prescription: Maintain opening using mechanical methods or fire
Specs:

Other Comments:

Next Steps: Monitor and treat on rotation

Proposed Start Date: Unspecified

82 NF_54010082-NonFor	1.2	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
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Prescription: Maintain opening using mechanical methods or fire
Specs:

Other Comments:

Next Steps: Monitor and treat on rotation

Proposed Start Date: Unspecified

**Total Treatment
Acreage Proposed: 453.6**

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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!

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 010
Year of Entry 2015

Availability for Management

Total Acres			Dominant Site Conditions		
Acres	Available	Not Available	No	5C	
699	699		650	49	Aspen
6	6		6		Lowland Conifers
426	426		426		Mixed Upland Deciduous
197	197		197		Northern Hardwood
75	75		65	11	Red Pine
1,403	1,403		1,343	59	Total Forested Acres
	100%				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
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	49				
Comments: treat in 10 years							
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11				
Comments: Stand was just thinned in 2011, hold and thin again in 10 years							



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
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
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.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 010
Year of Entry: 2015

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4139 - Aspen, Mixed Deciduous	High Density Pole	38.4	46		Few scatterd large oaks left from last harvest.
3	4199 - Other Mixed Upland Deciduous	Medium Density Log	42.0	71	51-80	
4	4199 - Other Mixed Upland Deciduous	High Density Log	21.5	75	81-110	
5	4119 - Mixed Northern Hardwoods	High Density Log	22.5	77	111-140	Thinned in 1976
7	4130 - Aspen	High Density Pole	97.4	25		
9	4131 - Aspen, Oak	High Density Pole	20.3	72		
10	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	12.7	58	51-80	wet pockets and seasonally wet.
15	4199 - Other Mixed Upland Deciduous	High Density Pole	10.4	73	81-110	
17	4199 - Other Mixed Upland Deciduous	High Density Log	38.3	82	51-80	Thinned in 2009
18	4130 - Aspen	High Density Pole	48.5	45		
20	4131 - Aspen, Oak	High Density Pole	48.7	48	111-140	
23	4119 - Mixed Northern Hardwoods	High Density Log	31.4	79	51-80	Thinned in 2009
24	4199 - Other Mixed Upland Deciduous	High Density Log	35.6	78	111-140	
26	4199 - Other Mixed Upland Deciduous	High Density Pole	29.0	36		
27	4199 - Other Mixed Upland Deciduous	High Density Log	11.1	81	81-110	
28	4199 - Other Mixed Upland Deciduous	High Density Log	30.7	86	81-110	
30	4130 - Aspen	High Density Pole	13.8	36		
34	4130 - Aspen	High Density Pole	23.0	27		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4131 - Aspen, Oak	High Density Pole	125.1	47	81-110	
42	4191 - Mixed Upland Deciduous with Conifer	High Density Log	8.1	88	81-110	
43	42110 - Planted Red Pine	High Density Pole	10.7	53	171-200	recent 3rd row thinning in 2010/2011. couple old foundations within the stand
45	4199 - Other Mixed Upland Deciduous	Medium Density Pole	33.4	83	1-50	low quality scrub trees. lots of dead oak.
47	4199 - Other Mixed Upland Deciduous	Medium Density Pole	3.9	37		Poor quality hardwood and aspen stems. Thick young sapling and brush understory
49	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.9	75	81-110	White pine is variable throughout. Some large diameter white pine that may meet "Legacy Tree" status.
50	4199 - Other Mixed Upland Deciduous	High Density Sapling	51.7	3		Approx 20% (10 acres) were left in pockets for retention after the cut in 2010. MO is RP and there are no RP regeneration present. Lots of cherry and a little oak and red maple regen throughout.
51	4199 - Other Mixed Upland Deciduous	High Density Log	68.4	81	81-110	thinned in 2009
52	4131 - Aspen, Oak	High Density Sapling	5.2	17		
53	42110 - Planted Red Pine	Medium Density Log	17.6	64	81-110	
54	42110 - Planted Red Pine	High Density Log	13.3	64	141-170	
56	4111 - S.Maple, Hard Mast Association	High Density Log	31.7	81	111-140	thinned a few times in the past, well formed crowns on log trees and lots of hwd regen sap to pole size. BA is quite variable throughout with many regen gaps from the last thinning. wet seep in the middle of stand.
57	4130 - Aspen	High Density Pole	10.0	45		
58	42110 - Planted Red Pine	High Density Log	33.7	59	200+	
61	6129 - Mixed Coniferous Lowland Forest	High Density Pole	5.8	44		white pine and hardwoods along edge near road with lowland conifers throughout.
63	4119 - Mixed Northern Hardwoods	High Density Log	42.9	72	111-140	hilly, couple of pools of water in the center (spit water potholes out as it's own stand)



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	6.1	89	81-110	Aspen was removed in 1965. Aspen, white pine, and red maple filled in under/throughout the oak
67	4199 - Other Mixed Upland Deciduous	Medium Density Pole	12.4	87	51-80	poor quality oak and aspen.
68	4130 - Aspen	High Density Pole	33.1	51		few scattered large diameter red and white pine along wolf lake rd. There's an old rail way that disects the stand from NW to SE.
72	4119 - Mixed Northern Hardwoods	Medium Density Log	68.5	86	111-140	Thinned in 1983. BA is variable throughout with clumps of trees and many open areas in the crowns. Many of these open areas have of thick beech regen.
73	4130 - Aspen	High Density Pole	60.0	26		
74	4130 - Aspen	High Density Sapling	19.6	16		approx 20 ba or less of sawlog size oak and mixed hwdws with well established aspen stand under it.
76	4131 - Aspen, Oak	High Density Log	38.5	85		very steep in places. There are a few vernal ponds in the center of the stand.
77	4130 - Aspen	High Density Sapling	37.9	16		Few scattered log size oaks.
78	4130 - Aspen	High Density Sapling	5.1	16		
81	4130 - Aspen	High Density Pole	25.0	26		
83	4130 - Aspen	High Density Sapling	19.7	16		approx 20 BA of log size oak scattered throughout
84	4131 - Aspen, Oak	High Density Log	29.5	80		aspen is over mature



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3102 - Grass	1.0	Unspecified	Unspecified	gas well
6	3102 - Grass	1.0	Unspecified	Unspecified	gas well
8	3302 - Low Density Conifer Trees	3.7	Unspecified	Unspecified	grass, sweet fern, sumac, jack pine, red pine, cherry, white pine.
11	3102 - Grass	1.0	Unspecified	Unspecified	gas well
12	629 - Mixed non-forested wetland	1.3	Unspecified	Unspecified	Ponded water, surrounding area seasonally wet
13	6229 - Mixed lowland shrub	2.8	Unspecified	Unspecified	seasonally wet. raspberry, willow, grass
14	50 - Water	3.3	Unspecified	Unspecified	standing water, dries out to grass
16	3102 - Grass	1.1	Unspecified	Unspecified	gas well
19	3102 - Grass	1.1	Unspecified	Unspecified	grass, and sweet fern
21	3102 - Grass	1.1	Unspecified	Unspecified	gas well
22	3102 - Grass	1.0	Unspecified	Unspecified	gas well, low area on south end with water and cattails.
25	3102 - Grass	1.5	Unspecified	Unspecified	
29	3102 - Grass	1.1	Unspecified	Unspecified	
31	3102 - Grass	2.7	Unspecified	Unspecified	grass and sweet fern
32	3102 - Grass	1.2	Unspecified	Unspecified	gas well
33	3102 - Grass	1.1	Unspecified	Unspecified	gas well, spotted napweed
35	3102 - Grass	1.0	Unspecified	Unspecified	gas well
36	11 - Low Intensity Urban	6.8	Unspecified	Unspecified	road and right of way along



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
38	3301 - Low Density Deciduous Tree	1.5	Unspecified	Unspecified	mostly bracken fern with scattered aspen, birch, oak, cherry
39	3102 - Grass	5.9	Unspecified	Unspecified	
40	11 - Low Intensity Urban	6.1	Unspecified	Unspecified	road and right of way
41	3303 - Mixed Low Density Trees	5.7	Unspecified	Unspecified	grass, scattered trees (oak, aspen, white pine)
44	3205 - Mixed Upland Shrub	1.5	Unspecified	Unspecified	sumac, scattered aspen, oak, cherry, and white pine
46	3102 - Grass	3.3	Unspecified	Unspecified	gas compressor facility, surrounded with grass.
48	3205 - Mixed Upland Shrub	1.1	Unspecified	Unspecified	
55	3102 - Grass	1.0	Unspecified	Unspecified	gas well
59	3303 - Mixed Low Density Trees	1.4	Unspecified	Unspecified	bracken fern, scattered red pine, aspen, cherry, witch hazel.
60	6223 - Inundated Shrub Swamp	2.1	Unspecified	Unspecified	Pot holes with standing water and low density trees/shrubs
62	11 - Low Intensity Urban	5.3	Unspecified	Unspecified	road right of way and pipeline with grass
64	3205 - Mixed Upland Shrub	2.6	Unspecified	Unspecified	grass, sumac, bracken fern, scattered trees
66	3102 - Grass	1.9	Unspecified	Unspecified	road and pipeline right of way and grassy opening adjacent to rd
69	3102 - Grass	1.1	Unspecified	Unspecified	gas well
70	6229 - Mixed lowland shrub	1.0	Unspecified	Unspecified	Standing water, shrubs and low density hardwood trees
71	3102 - Grass	3.7	Unspecified	Unspecified	gas well
75	3102 - Grass	1.0	Unspecified	Unspecified	gas well
79	3102 - Grass	1.0	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
80	3102 - Grass	1.3	Unspecified	Unspecified	gas well
82	3102 - Grass	1.2	Unspecified	Unspecified	gas well