



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 1

Entry Year 2015

Acreage: 1,681

County Montmorency

Management Area: Ausable Outwash

**Revision Date:** 08/16/2013

**Stand Examiner:** Darrick Coy

**Legal Description:**

T29N R01E Sections 3, 4, 9, 10, & 15

**Identified Planning Goals:**

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

**Soil and topography:**

Soils are mostly well to excessively drained graylings sands. Overall, the topography is rolling to flat with scattered dried out ponds or kettles. The compartment forest habitat types are mostly PARVHa & PARVVb. In general, site quality increases from SW to NE throughout the compartment.

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

No ownership changes from previous inventory. Antrim gas development has been a major impact to this compartment. Some trespass issues may exist.

**Unique Natural Features:**

Pine Barrens

Element Occurrences- rough fescue, pale agoseris, alleghany plum, & hill's thistle

Potential Occurrences- red shouldered hawk, bald eagle, common loon, grizzled zipper, red legged spittlebug, dusted skipper, secretive locust, eastern flat-whorl snail, spike-lip crater snail, doll's merolonche, & whorled pogonia

**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:**

Maintain pine barrens with fire when opportunities become available.

**Watershed and Fisheries Considerations:**

Maintain quality buffers (or selective cut) around natural lakes.

**Wildlife Habitat Considerations:**

Featured species in this compartment include white-tailed deer, ruffed grouse, wild turkey, and black bear. There are good blueberry, cherry, thornapple, oak, and aspen resources in this compartment which offer good spring, summer, and fall habitat components for the featured species. Maintenance of young forest, large open grassland complexes, and the maintenance and expansion of hard mast are desirable. Openings should be maintained by seeding or prescribed fire depending on soils present.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor end moraine of medium-textured till. 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 pit is located two miles to the north. There could be some gravel potential. This area has been drilled and is producing gas from the Antrim Shale.

**Vehicle Access:**

Good. There are many access points with Antrim gas well two-tracks that were created in the last 20 years.

**Survey Needs:**

none known or verified

**Recreational Facilities and Opportunities:**

Buttles Rd Pathway and ORV trails cross the compartment between Buttles Rd. and Winding Rd. The Buttles Rd. Pathway is used for hiking and skiing, a local has been grooming this portion of the trail at his own expense. A new snowmobile trail was constructed along Winding Rd to connect Montmorency County trails to Otsego County trails.

**Fire Protection:**

Lewiston and Atlanta Field Office provide protection. Mature jp is being removed to reduce threats of wildfire and heavier fuel loads. Open grass and shrub areas are being burned periodically as well.

**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**

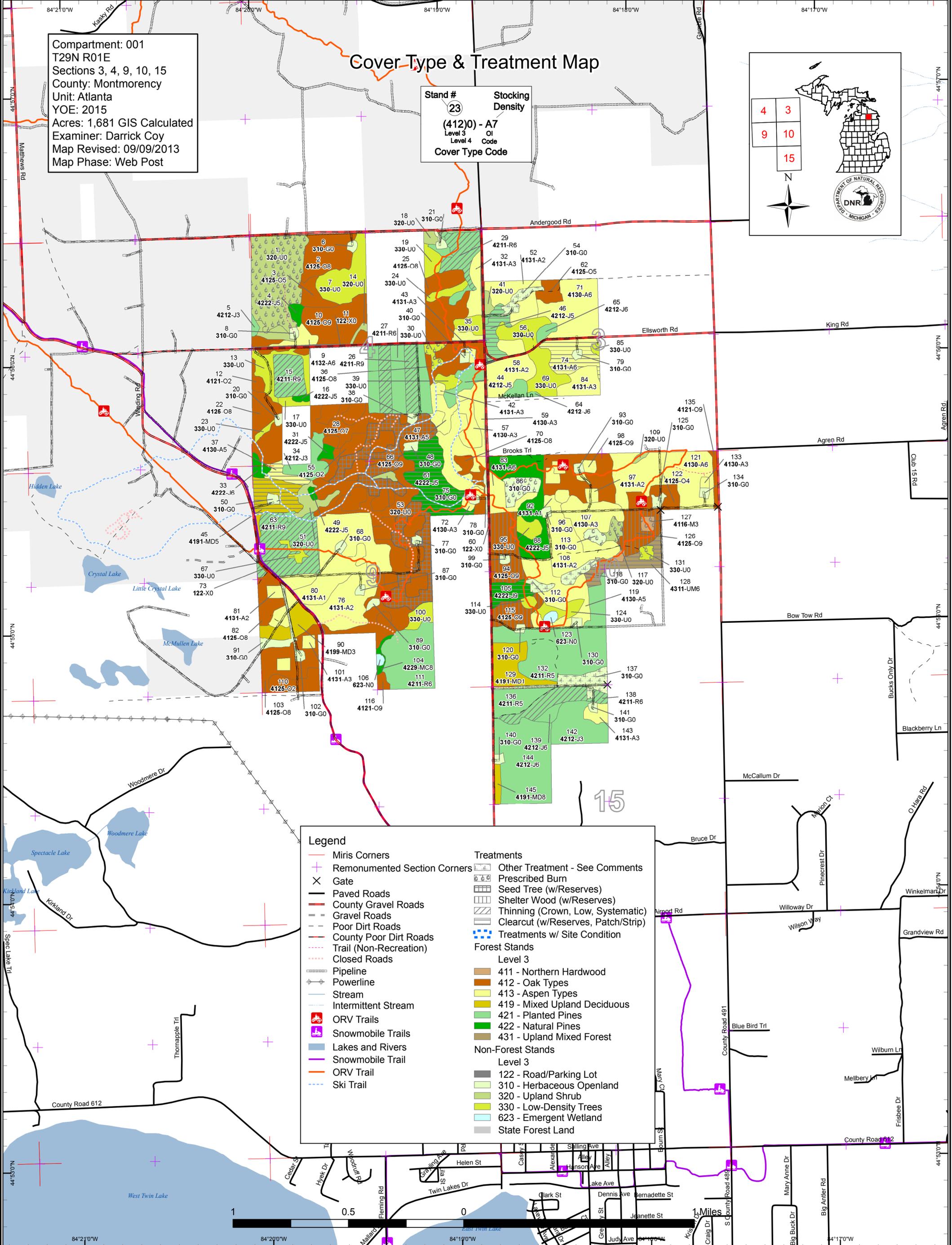
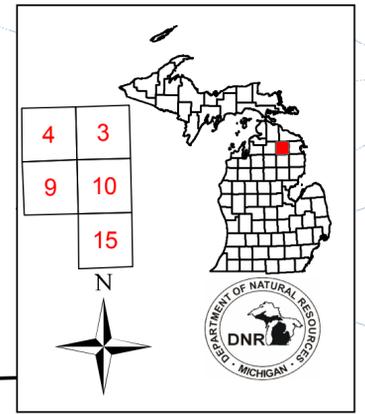
The following information is displayed, where pertinent, on the attached compartment maps:

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

Compartment: 001  
 T29N R01E  
 Sections 3, 4, 9, 10, 15  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2015  
 Acres: 1,681 GIS Calculated  
 Examiner: Darrick Coy  
 Map Revised: 09/09/2013  
 Map Phase: Web Post

# Cover Type & Treatment Map

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



**Legend**

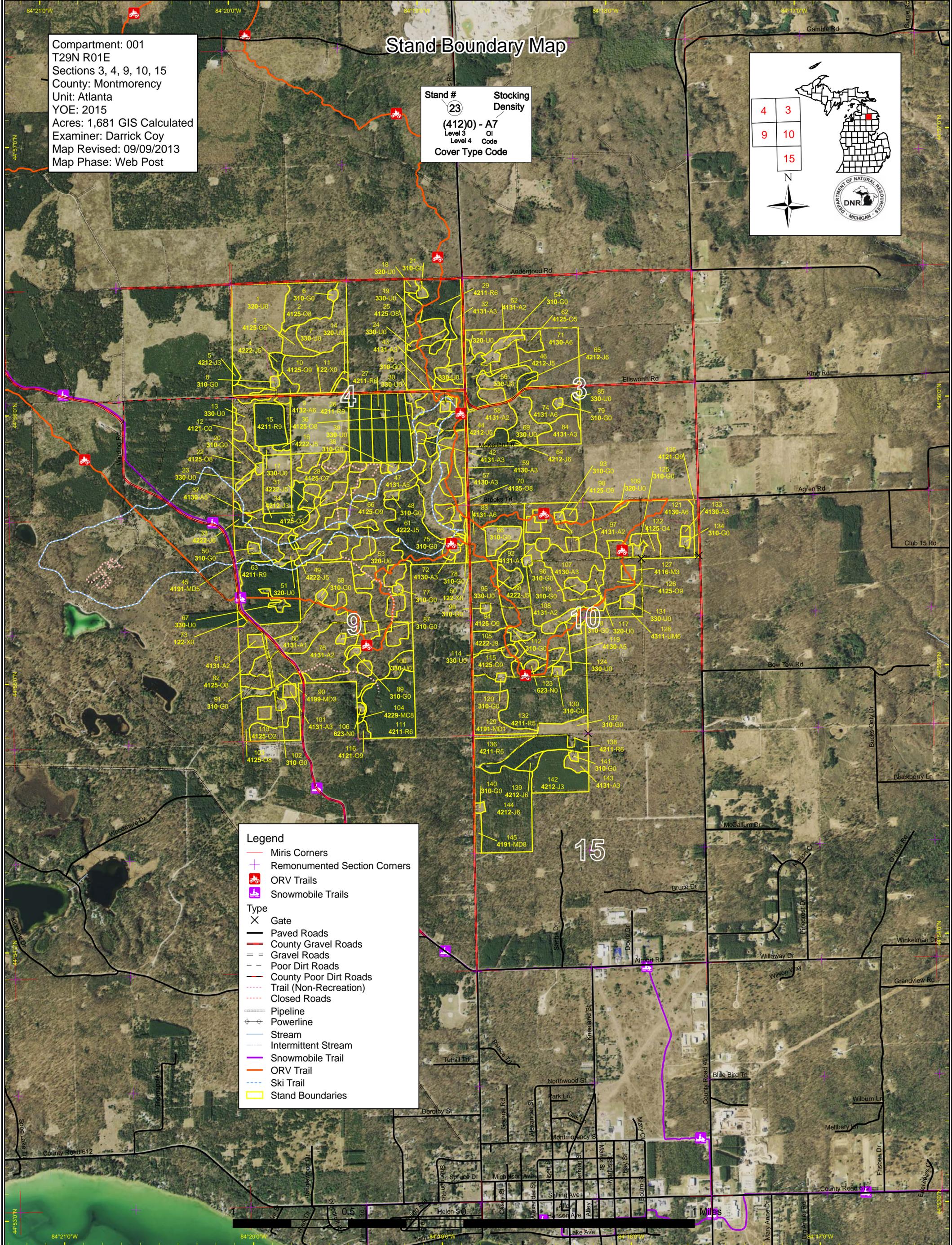
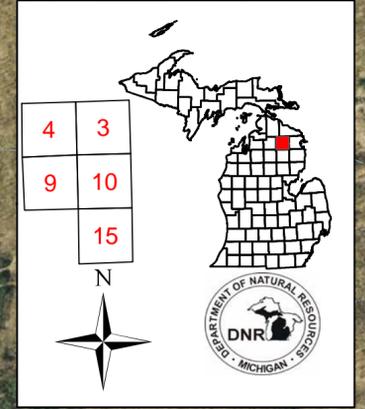
— Miris Corners	— Treatments
+ Remonumented Section Corners	Other Treatment - See Comments
X Gate	Prescribed Burn
— Paved Roads	Seed Tree (w/Reserves)
— County Gravel Roads	Shelter Wood (w/Reserves)
— Gravel Roads	Thinning (Crown, Low, Systematic)
— Poor Dirt Roads	Clearcut (w/Reserves, Patch/Strip)
— County Poor Dirt Roads	Treatments w/ Site Condition
— Trail (Non-Recreation)	<b>Forest Stands</b>
— Closed Roads	Level 3
— Pipeline	411 - Northern Hardwood
— Powerline	412 - Oak Types
— Stream	413 - Aspen Types
— Intermittent Stream	419 - Mixed Upland Deciduous
ORV Trails	421 - Planted Pines
Snowmobile Trails	422 - Natural Pines
Lakes and Rivers	431 - Upland Mixed Forest
Snowmobile Trail	<b>Non-Forest Stands</b>
ORV Trail	Level 3
Ski Trail	122 - Road/Parking Lot
	310 - Herbaceous Openland
	320 - Upland Shrub
	330 - Low-Density Trees
	623 - Emergent Wetland
	State Forest Land



# Stand Boundary Map

Compartment: 001  
 T29N R01E  
 Sections 3, 4, 9, 10, 15  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2015  
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 Examiner: Darrick Coy  
 Map Revised: 09/09/2013  
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Stand #  
**23**  
**(412)0 - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code



**Legend**

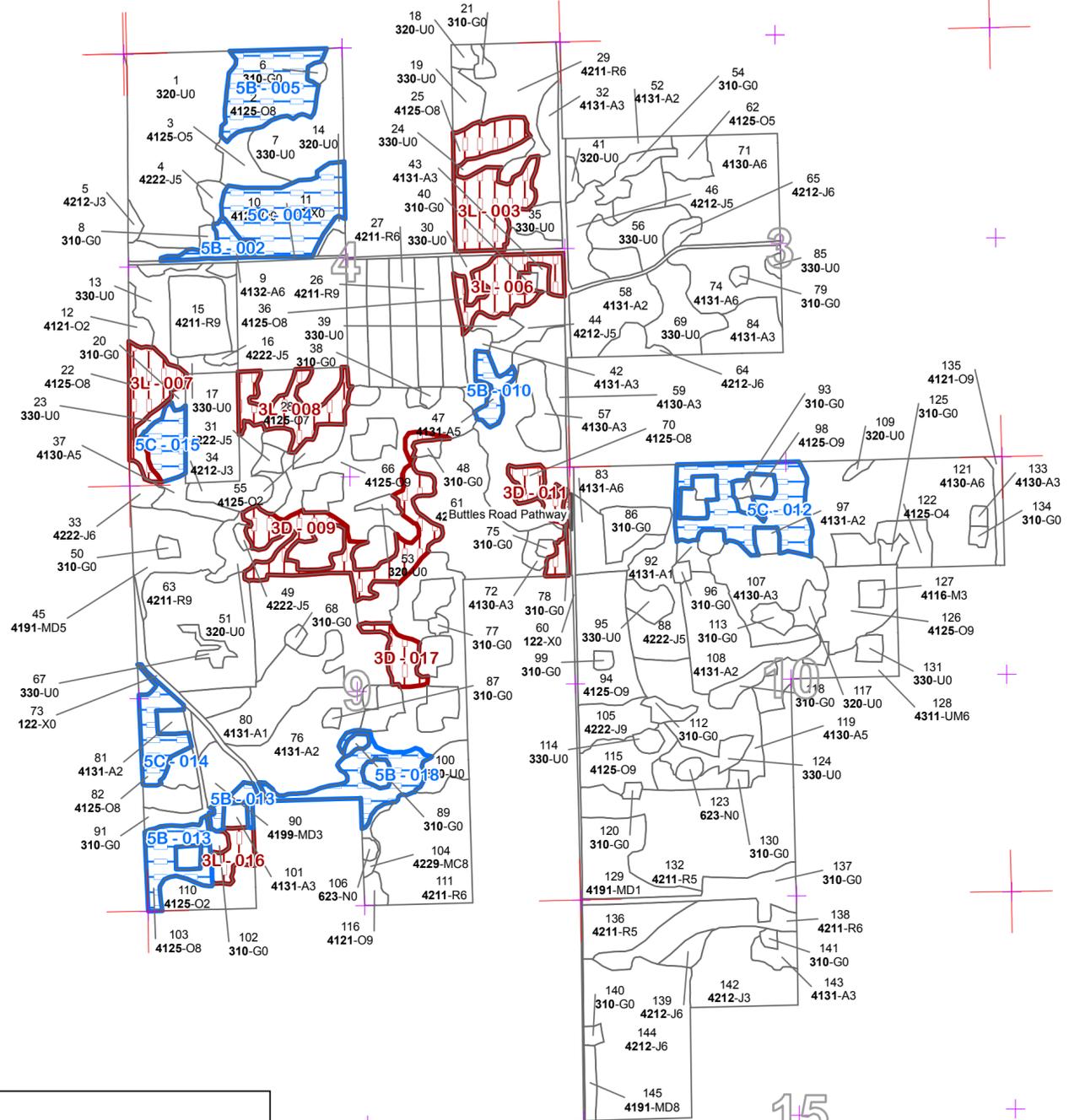
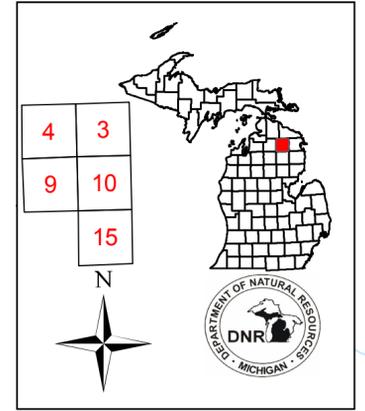
- Miris Corners
- + Remonumented Section Corners
- ORV Trails
- Snowmobile Trails
- Type**
- Gate
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Pipeline
- Powerline
- Stream
- Intermittent Stream
- Snowmobile Trail
- ORV Trail
- Ski Trail
- Stand Boundaries



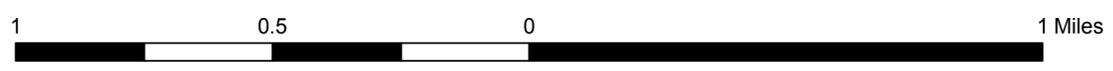
Compartment: 001  
 T29N R01E  
 Sections 3, 4, 9, 10, 15  
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 Unit: Atlanta  
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 Acres: 1,681 GIS Calculated  
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 Map Phase: Web Post

# Special Conservation Areas & Site Conditions Map

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



- Legend**
- Miris Corners
  - Stand Boundaries
  - Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
  - Reviewable SCAs
  - Proposed SCA's
  - Proposed SCA
  - SCA Removal
  - Dedicated Special Conservation Areas
  - Cold Water Streams



84°21'0"W 84°20'0"W 84°19'0"W 84°18'0"W 84°17'0"W

44°57'0"N  
44°56'0"N  
44°55'0"N  
44°54'0"N  
44°53'0"N

44°57'0"N  
44°56'0"N  
44°55'0"N  
44°54'0"N  
44°53'0"N

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	66	65	49	128	101	0	5	0	10	0	0	0	0	0	424
Herbaceous Openland	71	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Jack Pine	0	23	11	86	16	6	11	33	11	0	0	0	0	0	197
Low-Density Trees	107	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	18	11	0	0	17	0	0	3	0	0	0	0	49
Natural Mixed Pines	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Northern Hardwood	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Oak	63	0	26	0	17	0	0	22	151	165	20	0	0	0	462
Red Pine	0	0	138	0	0	111	0	0	0	0	0	0	0	0	249
Upland Mixed Forest	0	0	0	0	0	0	0	13	0	0	0	0	0	0	13
Upland Shrub	76	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Urban	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
<b>Total</b>	<b>413</b>	<b>87</b>	<b>241</b>	<b>226</b>	<b>133</b>	<b>117</b>	<b>33</b>	<b>70</b>	<b>172</b>	<b>167</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1681</b>



## Report 2 – Proposed Treatment Summaries

**Atlanta Mgt. Unit**  
**Year of Entry 2015**

**Compartment 001**  
**Total Compartment Acres: 1,681**

### Acres by Treatment Type

Commercial Harvest - 322    Tree Planting - 77    Other - 76  
 Habitat Cut - 0    Opening Maintenance - 24

### 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>
<b>Aspen Types</b>	23	0	0	0	0	0	0	23
<b>Mixed Upland Deciduous</b>	16	0	0	0	0	0	0	16
<b>Natural Pines</b>	42	0	0	0	0	0	0	42
<b>Oak Types</b>	0	0	62	51	0	0	0	113
<b>Planted Pines</b>	9	0	0	0	105	0	0	115
<b>Upland Mixed Forest</b>	13	0	0	0	0	0	0	13
<b>Total</b>	<b>104</b>	<b>0</b>	<b>62</b>	<b>51</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>322</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	54001015-Cut	15.1	42110 - Planted Red Pine	High Density Log	52	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -3rd row thin										
<u>Specs:</u> -rows are well defined, no need to mark -shortwood only in specs										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
26	54001026-Cut	20.6	42110 - Planted Red Pine	High Density Log	52	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -3rd row thin										
<u>Specs:</u> -rows are well defined, no need to mark -shortwood only in specs										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
29	54001029-Cut	15.6	42110 - Planted Red Pine	High Density Pole	52	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -3rd row thin										
<u>Specs:</u> -may need to mark some spots to cut in S half and NW portions -protect ORV trail in specs -shortwood only in specs										
<u>Other</u> -more jp to west and south portions										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
37	54001037-Cut	5.3	4130 - Aspen	Medium Density Pole	65	1-50	Harvest	Clearcut	42140 - Planted Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> -clearcut										
<u>Specs:</u> -no retention due to small stand size -protect ski trail in specs -require chipping of tops										
<u>Other</u> -include old rotten aspen saplings for harvest within northern 1/3rd of treatment/stand										
<u>Comments:</u>										
<u>Next</u> -prep site using chemical and/or mechanical means individually or in combination										
<u>Steps:</u> -trench and replant to jp -acceptable regeneration is jp and oak of medium to high stocking										
<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
45	54001045-Cut	16.3	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	65	1-50	Harvest	Clearcut	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -clearcut										
<u>Specs:</u> -only cut portion north of buttlles road pathway to comply with green-up -leave retention pocket(s) 3-5 % with oak -no other retention necessary, left area untreated along road -protect ski trails in specs -require chipping of tops										
<u>Other</u> -better site for pine and oak										
<u>Comments:</u> -stimulate oak regeneration under planted rp (sig. adv. oak evident in adjacent rp to S)										
<u>Next</u> -prep site using chemical and/or mechanical means individually or in combination										
<u>Steps:</u> -trench and replant to rp -acceptable regeneration is rp, rm, jp, and oak of medium to high stocking										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
46	54001046-Cut	9.2	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density Pole	61	51-80	Harvest	Clearcut	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -clearcut										
<u>Specs:</u> -leave strip of retention where terrain is too steep for equipment along buttlles rd -no other retention necessary -require chipping of tops										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> -prep site using chemical and/or mechanical means individually or in combination										
<u>Steps:</u> -trench and replant to rp -acceptable regeneration is rp, rm, aspen, and oak of medium to high stocking										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
61	54001061-Cut	33.1	42220 - Natural Jack Pine	Medium Density Pole	72	51-80	Harvest	Clearcut with Reserves	42140 - Planted Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> -clearcut										
<u>Specs:</u> -leave 3-7% in retention pockets -leave all oak and rp -protect ski and ORV trails in specs -mark small saplings along trail at a max spacing of 100ft for trail navigation										
<u>Other</u> -could not locate survey corner to SW										
<u>Comments:</u>										
<u>Next</u> -prep site using chemical, mechanical, or thermal means individually or in combination to remove competition										
<u>Steps:</u> -trench and replant to rp with regenerating jp -acceptable regeneration is rp, jp, and oak of medium to high stocking										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
63	54001063-Cut	37.8	42110 - Planted Red Pine	High Density Log	57	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -mark thin rp to approx. 110-120 BA leaving roughly 2/3rds residual BA										
<u>Specs:</u> -protect ORV and ski trails in specs										
<u>Other</u>										
<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
66	54001066-Cut	61.9	4125 - Black, N. Pin Oak	High Density Log	96	51-80	Harvest	Seed Tree with Reserves	4125 - Black, N. Pin Oak	Cmpt. Review Proposal

Prescription -seed-tree harvest

Specs:  
 -leave 10-30 BA of all represented trees (leave mostly oak)  
 -leave all rp, wp, and white oak  
 -no additional area retention necessary (significant areas already excluded from harvest)  
 -harvest with snow off for scarification  
 -no chipping of tops to protect advanced oak regen and shrubs  
 -protect ORV and Buttles Rd Pathway in specs

Other

Comments:

Next -regen survey 3-5 yrs

Steps: -acceptable regeneration is oak, rm, aspen and pine

Proposed

Start Date: 10/01/2014

74	54001074-Cut	17.5	4131 - Aspen, Oak	High Density Pole	46	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription -clearcut

Specs:  
 -leave 1 2-3 oak clump/1-2 acres and all wp  
 -retention pocket(s) 3-7%

Other

Comments:

Next -regen survey 3-5 yrs

Steps: -acceptable regeneration is aspen, jp, rm, rp and oak of medium to high stocking

Proposed

Start Date: 10/01/2014

94	54001094-Cut	23.0	4125 - Black, N. Pin Oak	High Density Log	89	51-80	Harvest	Shelterwood	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription -shelterwood harvest leaving 40-50 ba for sapling thermal protection & visual concerns with 3 private residences

Specs:  
 -to reach target residual ba cut all jp and mark 20-30 ba of oak to cut  
 -evenly distribute leave oak trees to maximize some crown closure and limit frost damage  
 -no retention pockets necessary  
 -leave all wp, rp, and aspen  
 -include with adjacent treatments/sale during prep  
 -require harvesting with snow-off to aid in scarification  
 -protect ORV trail in specs

Other -adj. aspen in poor condition (N & E) and took over a lot of the adj stand that was oak (N & E))

Comments:

Next -regen survey 3-5 years

Steps: -acceptable regeneration is oak, rm, and pine  
 -do not remove/harvest residual oak

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
105	54001105-Cut	8.9	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	83	51-80	Harvest	Clearcut with Reserves	4132 - Aspen, Jack Pine	Cmpt. Review Proposal

Prescription -clearcut

Specs:  
 -leave one 3-5 jp clump per acre to provide some natural regen and help with visual concerns  
 -leave all oak, rp, and wp  
 -no other retention necessary due to small stand size  
 -harvest with snow off for scarification  
 -protect ORV trail in specs

OtherComments:

Next -regen survey 3-5 yrs  
Steps: -acceptable regeneration is aspen, jp, rm, rp, oak, and wp of medium to high stocking

ProposedStart Date: 10/01/2014

115	54001115-Cut	12.2	4125 - Black, N. Pin Oak	High Density Log	89	51-80	Harvest	Shelterwood	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription -shelterwood harvest leaving 40-50 ba for sapling thermal protection & visual concerns with 3 private residences

Specs:  
 -to reach target residual ba cut all jp and mark 20-30 ba of oak to cut  
 -evenly distribute leave oak trees to maximize some crown closure and limit frost damage  
 -no retention pockets necessary  
 -leave all wp, rp, and aspen  
 -include with adjacent treatments/sale during prep  
 -require harvesting with snow-off to aid in scarification  
 -protect ORV trail in specs

OtherComments:NextSteps:ProposedStart Date: 10/01/2014

126	54001126-Cut	15.5	4125 - Black, N. Pin Oak	High Density Log	91	51-80	Harvest	Shelter Wood with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
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Prescription -shelterwood prep

Specs:  
 -reduce canopy cover by approximately 20-30%  
 -cut all aspen and red maple  
 -mark approx. 20-30 ba of oak to cut as well to reach residual target of around 60-70 ba  
 -thin mostly from below and cut oak with small weak crowns  
 -no other retention necessary for regeneration purposes  
 -shortwood and no chipping of tops for RX burning purposes in sale specs  
 -include with adjacent treatments/sale during prep  
 -require harvesting with snow-off to aid in scarification  
 -protect ORV trail in specs

Other -gradually establish oak regen while removing rmComments:Next -under burn post-harvest to reduce red maple and aspenSteps: -if no burn happens, no follow-up until next YOYProposedStart 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
128	54001128-Cut	13.5	4311 - Pine, Aspen Mix	High Density Pole	76	51-80	Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -clearcut <u>Specs:</u> -leave 1 oak/2 acres -no other retention necessary for regeneration purposes -no chipping of tops for RX burning purposes in sale specs -include with adjacent treatments/sale during prep -protect ORV trail in specs  <u>Other</u> -2-3 stick aspen (east half) <u>Comments:</u> -4-5 stick aspen (west half)  <u>Next</u> -within the east half of treated area harvested burn and, if needed, herbicide post-harvest to reduce red maple and aspen <u>Steps:</u> -trench and replant to rp (east half only) -acceptable regeneration is rp, rm, aspen, and oak of medium to high stocking  <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
138	54001138-Cut	16.3	42110 - Planted Red Pine	High Density Pole	52	200+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -3rd row thin <u>Specs:</u> -no need to mark, rows well defined -shortwood only in specs  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
127	54001127- Burn	2.3	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	3		Prescribed Burn	Unspecified	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -burn with surrounding oak understory burn <u>Specs:</u> -included to make surrounding burn easier to set-up/control and remove/weaken future interior rm seed sources from re-populating adjacent oak stand  <u>Other</u> <u>Comments:</u>  <u>Next</u> <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
1	NF_54001001- Burn	53.2	3205 - Mixed Upland Shrub				Prescribed Burn	Unspecified	320 - Upland Shrub	Cmpt. Review Proposal
<u>Prescription</u> -burn to maintain as jack pine barrens <u>Specs:</u>  <u>Other</u> -north half of stand was clearcut fall/winter of 08 54-005-08-01 Jack Andergood II <u>Comments:</u>  <u>Next</u> -re-burn as necessary when conditions allow <u>Steps:</u>  <u>Proposed</u> <u>Start Date:</u> Unspecified										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
30	NF_54001030- Burn	3.6	330 - Low-Density Trees				Prescribed Burn	Unspecified	320 - Upland Shrub	Cmpt. Review Proposal
<u>Prescription</u> Burn to maintain shrub character. If burn is not funded, treat mechanically.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Monitor and burn on rotation every 5-10 years.										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
86	NF_54001086- Burn	8.5	310 - Herbaceous Openland				Prescribed Burn	Unspecified	31022 - Warm Season Grass	Cmpt. Review Proposal
<u>Prescription</u> Burn to promote native grasses and maintain as opening. If burn is not funded, treat mechanically.										
<u>Specs:</u>										
<u>Other</u> Native grasses present										
<u>Comments:</u>										
<u>Next</u> Monitor and burn on a rotation of 2-10 years										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
113	NF_54001113- Burn	3.0	310 - Herbaceous Openland				Prescribed Burn	Unspecified	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> -burn to prevent tree/shrub encroachment and remove sweet fern										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
117	NF_54001117- Burn	3.5	320 - Upland Shrub				Prescribed Burn	Unspecified	320 - Upland Shrub	Cmpt. Review Proposal
<u>Prescription</u> -burn to prevent tree/shrub encroachment and remove sweet fern										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
131	NF_54001131- Burn	2.3	330 - Low-Density Trees				Prescribed Burn	Unspecified	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -burn with surrounding stands										
<u>Specs:</u> -use area for landing										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> -trench and replant to RP										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	NF_54001054- NonFor	5.0	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Burn or mow to maintain grasses and set back woody encroachment.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor and perform opening maintenance on a 2-10 year rotation										
<u>Proposed Start Date:</u> Unspecified										
112	NF_54001112- NonFor	2.8	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Mow, burn, or plant to maintain opening for wildlife values										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor and maintain on a rotation of 2-10 years.										
<u>Proposed Start Date:</u> Unspecified										
118	NF_54001118- NonFor	4.2	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Mow, burn, or plant to maintain as opening for wildlife values										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor and treat on a rotation of 2-10 years.										
<u>Proposed Start Date:</u> Unspecified										
137	NF_54001137- NonFor	12.3	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Mow or burn to maintain grasses and open character										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor and treat on a rotation of 2-10 years.										
<u>Proposed Start Date:</u> Unspecified										

**Total Treatment  
Acreage Proposed: 422.3**

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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!							
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Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

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<b>Total Treatment</b>	
<b>Acreage Proposed:</b>	<b>0.0</b>

## Report 5 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment 001  
Year of Entry 2015

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	5B	3L	3D
	Available	Not Available						
424	424		<b>Aspen</b>	414		10		
197	197		<b>Jack Pine</b>	197				
49	49		<b>Mixed Upland Deciduous</b>	49				
2	2		<b>Natural Mixed Pines</b>	2				
4	4		<b>Northern Hardwood</b>	4				
462	350	112	<b>Oak</b>	228	70	52	71	41
249	249		<b>Red Pine</b>	249				
13	13		<b>Upland Mixed Forest</b>	13				
1,400	1,288	112	Total Forested Acres	1,156	70	62	71	41
	92%	8%	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	Available	<b>5B: Retention for regeneration purposes</b>	5				
<b>Comments:</b>							
-fair amount of oak coming in under aspen that is of poor quality							
003	Not Available	<b>3L: Other wildlife concerns</b>	25	3D: Recreational / Scenic values			
<b>Comments:</b>							
-orv trail bisects stand -area of significant mast production and importance to wildlife in general -open development of the stand has created scattered mast oak with significant oak regeneration under oaks and within gaps -also significant variability in structure and heights within shrubs and saplings -important stand to turkey, squirrels, and recreation -imagery texture and walkthrough verifies stand as primarily containing mast trees							

## Report 5 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment 001  
Year of Entry 2015

004	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26		
<p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>-adjacent stand to NE was clearcut and had poor regeneration and is mostly non-forested (frost, flat terrain)</li> <li>-oak are healthy</li> </ul>					
005	<b>Available</b>	<b>5B: Retention for regeneration purposes</b>	22		
<p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>-adjacent stand to SE was clearcut and had poor regeneration and is mostly non-forested (frost, flat terrain)</li> <li>-oak are healthy</li> </ul>					
006	<b>Not Available</b>	<b>3L: Other wildlife concerns</b>	14	3D: Recreational / Scenic values	
<p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>-orv trail bisects stand</li> <li>-area of significant mast production and importance to wildlife in general</li> <li>-open development of the stand has created scattered mast oak with significant oak regeneration under oaks and within gaps</li> <li>-also significant variability in structure and heights within shrubs and saplings</li> <li>-important stand to turkey, squirrels, and recreation</li> <li>-imagery texture and walkthrough verifies stand as primarily containing mast trees</li> </ul>					
007	<b>Not Available</b>	<b>3L: Other wildlife concerns</b>	12	3D: Recreational / Scenic values	
<p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>-ski trail bisects stand</li> <li>-area of significant mast production and importance to wildlife in general</li> <li>-open development of the stand has created scattered mast oak with significant oak regeneration under oaks and within gaps</li> <li>-also significant variability in structure and heights within shrubs and saplings</li> <li>-important stand to turkey, squirrels, and recreation</li> <li>-imagery texture and walkthrough verifies stand as primarily containing mast trees</li> </ul>					

## Report 5 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment 001  
Year of Entry 2015

008	<b>Not Available</b>	<b>3L: Other wildlife concerns</b>	14	
<p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>-area of significant mast production and importance to wildlife in general</li> <li>-oak regeneration under oaks and within gaps</li> <li>-also significant variability in structure and heights within shrubs and saplings</li> <li>-important stand to turkey and squirrels</li> <li>-imagery texture and walkthrough verifies stand as primarily containing mast trees</li> </ul>				
009	<b>Not Available</b>	<b>3D: Recreational / Scenic values</b>	27	<b>3L: Other wildlife concerns</b>
<p><b>Comments:</b></p>				
010	<b>Available</b>	<b>5B: Retention for regeneration purposes</b>	5	
<p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>-aspen are all almost dead and regrowth is well established</li> </ul>				
011	<b>Not Available</b>	<b>3D: Recreational / Scenic values</b>	8	
<p><b>Comments:</b></p>				
012	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26	
<p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>-well established red maple subcanopy</li> <li>-more of a hybrid n. pin oak/red oak stand</li> <li>-oak are healthy</li> </ul>				

## Report 5 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment 001  
Year of Entry 2015

013	Available	5B: Retention for regeneration purposes	15	
<b>Comments:</b> -scattered pockets of old aspen low in vigor with oak				
014	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	
<b>Comments:</b> -oaks are healthy				
015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	
<b>Comments:</b> -oaks are still healthy				
016	Not Available	3L: Other wildlife concerns	5	
<b>Comments:</b> -area of significant mast production -open development of the stand has created scattered mast oak with significant oak regeneration under oaks and within gaps -also significant variability in structure and heights within shrubs and saplings -imagery texture and walkthrough verifies stand as primarily containing mast trees				
017	Not Available	3D: Recreational / Scenic values	6	3L: Other wildlife concerns
<b>Comments:</b>				
018	Available	5B: Retention for regeneration purposes	15	
<b>Comments:</b> -fair amount of poor quality aspen and oak coming in underneath as well as wp				



**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
<b>Buttles Road Pathway</b>	Concentrated Recreation Area	Trail Head	<b>SCA</b>	1.0
<b>Comments</b> driveway and parking included				



## 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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4125 - Black, N. Pin Oak	Medium Density Log	21.9	78	1-50	-oak seem to still be fairly vigorous but of poor quality and most trees are scattered stump sprout mast trees -no-low frost damage to oak saplings
3	4125 - Black, N. Pin Oak	Medium Density Pole	7.2	25	1-50	-poor quality oak
4	42220 - Natural Jack Pine	Medium Density Pole	2.7	53	51-80	-small stand
5	42120 - Planted Jack Pine	High Density Sapling	1.4	16	1-50	
9	4132 - Aspen, Jack Pine	High Density Pole	4.8	81		-small stand with a fair amount of oak coming in under aspen, mainly to SE portion of stand
10	4125 - Black, N. Pin Oak	High Density Log	27.8	82	51-80	-serviceberry is fairly well distributed throughout stand -stand is healthy
12	4121 - Oak, Aspen	Medium Density	8.3	28	1-50	-canopy more open along road and rp stand to east -7/20/84 (cde- jp 77, oak 1, aspen 1)
15	42110 - Planted Red Pine	High Density Log	15.1	52	171-200	-57ft, 58ft, and 54ft
16	42220 - Natural Jack Pine	Medium Density Pole	1.3	44	51-80	
22	4125 - Black, N. Pin Oak	Medium Density Log	20.6	99	1-50	-stand is perpetuating itself nicely -significant amount of mast oak of rather poor quality filling open areas and protecting areas with sapling oak from frost damage -significant shrub development with varying heights -no-low frost damage to oak saplings
25	4125 - Black, N. Pin Oak	Medium Density Log	25.2	81	51-80	-scattered mast oak and aspen of low quality on rolling rocky terrain -orv trail run n-s through stand -good diversity all around and an excellent stand for song birds and large game with mostly mast oak due to low residual stocking -older clone of aspen to sw portion of stand where imagery
26	42110 - Planted Red Pine	High Density Log	20.6	52	171-200	53ft, 49ft, 52ft- average site, maintain as rp BAs taken-13, 16, 20, 15, 16, 19 17, 16, 19
27	42110 - Planted Red Pine	High Density Pole	28.7	28	141-170	-33ft, 32ft, 28ft -machine planted to RP completed 05/84 6x10 spacing
28	4125 - Black, N. Pin Oak	Low Density Log	14.4	97	1-50	-oak saplings are developing well under residual log oak, minimal frost damage



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	42110 - Planted Red Pine	High Density Pole	20.3	52	171-200	-heavier to jp in west
31	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	2.2	87	1-50	-jp and aspen crowns falling apart -poor quality
32	4131 - Aspen, Oak	High Density Sapling	10.6	26		-ORV activity from private -1/6/86 (cde- aspen 191, mo 144, & jp 266)
33	42220 - Natural Jack Pine	High Density Pole	3.3	49	51-80	
34	42120 - Planted Jack Pine	High Density Sapling	10.7	25	1-50	-old shooting range that was planted due to excessive littering and other illegal access issues by adjacent pvt landowner -planted to JP in 1987 -6x8 spacing
36	4125 - Black, N. Pin Oak	Medium Density Log	13.9	88	51-80	
37	4130 - Aspen	Medium Density Pole	5.5	65	1-50	south half- aspen beginning to decline, 3 stick ave trees and crowns are in poor shape  north half- rotten aspen that are 65 and still saps
42	4131 - Aspen, Oak	High Density Sapling	5.0	15		
43	4131 - Aspen, Oak	High Density Sapling	1.3	8		-mostly aspen
44	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density Pole	8.7	43	1-50	-somewhat open stand of poor quality aspen and jp -remnant rows to sw, assume planting success was variable
45	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	17.1	65	1-50	-aspen are not doing well in this stand 3 stick ave with early mortality
46	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density Pole	9.6	61	51-80	-3-4 stick aspen and jp
47	4131 - Aspen, Oak	Medium Density Pole	5.1	88		-aspen dying, aspen sprouts coming in along with rm
49	42220 - Natural Jack Pine	Medium Density Pole	1.0	67	51-80	
52	4131 - Aspen, Oak	Medium Density	16.0	26	1-50	-oak only present in areas that are semi-open/less aspen -1/6/86 (cde- aspen 191, mo 144, & jp 266)
55	4125 - Black, N. Pin Oak	Medium Density	62.8	9		-see compartment folder for excel sheet on individual pocket conditions -age was based off an average for 2 partial harvests



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4130 - Aspen	High Density Sapling	8.5	15		-11/17/97, (cde- bta 210, mo 40, jp 20)
58	4131 - Aspen, Oak	Medium Density	21.2	4	1-50	-cut fall 2008 -north of road regeneration is much better and mostly aspen -nw and w of areas s of road regen is good and mostly aspen, other areas s of road are rather poor -aspen not browsed much -oak has been heavily browsed, not many above waist height
59	4130 - Aspen	High Density Sapling	30.6	4	1-50	-cut fall 2008 -well occupied sapling layer about 6ft tall -growth and vigor is good -walked through stand and is stocked
61	42220 - Natural Jack Pine	Medium Density Pole	33.4	72	51-80	-Ski and ORV trails -3-4 stick jp average
62	4125 - Black, N. Pin Oak	Medium Density Pole	5.7	46	51-80	-semi-open stand of low quality oak
63	42110 - Planted Red Pine	High Density Log	38.9	57	171-200	-orv & ski trl -63ft, 65ft, 58ft
64	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	4.4	34		
65	42120 - Planted Jack Pine	High Density Pole	2.7	46	51-80	-rows apparent rowards s portion of stand -some much older/larger jp scattered throughout, some must have been left before planting, old seed-tree that failed?
66	4125 - Black, N. Pin Oak	High Density Log	114.0	96	51-80	
70	4125 - Black, N. Pin Oak	Medium Density Log	7.6	87	1-50	
71	4130 - Aspen	High Density Pole	32.0	46	51-80	-only 3-5% showing internal decay
72	4130 - Aspen	High Density Sapling	3.2	15		
74	4131 - Aspen, Oak	High Density Pole	17.5	46	51-80	-scattered jp and oak -most oak is limby amd rather poor quality, most appear to have been left from previous cut -4 stick ave -not as vigorous as aspen to adj north
76	4131 - Aspen, Oak	Medium Density	65.6	34	1-50	-about 1/3rd of canopy is shrub and have variable heights due to irregular/low oak/aspen stocking -1/5 of aspen already dead -will be semi open



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	4131 - Aspen, Oak	Low Density Sapling	26.6	34	1-50	-poorly stocked and low quality timber, borderline non-forested
81	4131 - Aspen, Oak	Medium Density	2.3	4		-not quite an oak stand -will be open non-forest pockets within stand -1/4 corner located north and a little east of cabin, driveway crosses state
82	4125 - Black, N. Pin Oak	Medium Density Log	9.9	87	51-80	
83	4131 - Aspen, Oak	High Density Pole	9.4	36	1-50	- 11/15/76 (cds- 670 jp, 295 b. oak, 70 aspen) -very poor aspen growth -oak doing ok, definitely better than aspen -aspen dying in full sunlight before getting to 5 in dbh
84	4131 - Aspen, Oak	High Density Sapling	11.3	14		-2/17/98 (cds- jp 60, mo 56, bta 30)
88	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	30.2	36	1-50	-removed jp, aspen, and oak (cds- 670 jp, 295 oak, 70 aspen) -completed 11/15/76
90	4199 - Other Mixed Upland Deciduous	High Density Sapling	11.4	37	1-50	-cut 1976 -more aspen to west
92	4131 - Aspen, Oak	Low Density Sapling	5.9	3		-NW- 25% oak above waist height, 25-50% canopy coverage, aspen filling in/browsed less -canopy coverage will increase over 50%, just too young right now -SW-25% oak above waist height, 25-50% canopy coverage, aspen filling in/browsed less, actual regen survey might be needed, pre-harvest imagery shows a lot of pine -NE-50-75% canopy coverage, mostly rm and less than 20% oak
94	4125 - Black, N. Pin Oak	High Density Log	23.0	89	51-80	
97	4131 - Aspen, Oak	Medium Density	7.8	15		NW- 60% aspen, 10% rm, 30% oak NE- 40% aspen, 20% rm, 40% oak 4/22/97 (cds- mo 48, qa 3, rp 2, jp 2)
98	4125 - Black, N. Pin Oak	High Density Log	26.2	87	51-80	-well established red maple subcanopy -more of a hybrid n. pin oak/red oak stand
101	4131 - Aspen, Oak	High Density Sapling	3.9	4		-ne- aspen 85%, oak 10%, 75-100% coverage, stocked -sw- aspen 40%, oak 50%, 50-75% coverage, stocked
103	4125 - Black, N. Pin Oak	Medium Density Log	20.0	101	51-80	-scattered mast oak with pockets of old aspen
104	42290 - Natural Mixed Pine	Medium Density Log	1.7	76	51-80	-some old growth rp present -difficult terrain



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
105	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	8.9	83	51-80	-large aspen log clone within middle of stand
107	4130 - Aspen	High Density Sapling	22.0	26	1-50	-1/15/86 (cds- mo 201, aspen 130, rm 4, jp 18)
108	4131 - Aspen, Oak	Medium Density	24.6	15		-4/22/97 (cds- jp 75, mo 167, qa 33)
110	4125 - Black, N. Pin Oak	Medium Density	10.3	28	1-50	-10/04/84, (cds- mo 43 & jp 60)
111	42110 - Planted Red Pine	High Density Pole	34.9	26	111-140	-9/9/85, (cds- jp 376, m. oak 26, rp 38) -planting to RP completed 05/87 6x8 spacing -natural jp evident in wet and lower elevation small drainages throughout stand
115	4125 - Black, N. Pin Oak	High Density Log	12.2	89	51-80	
116	4121 - Oak, Aspen	High Density Log	2.1	83	51-80	
119	4130 - Aspen	Medium Density Pole	26.8	36	1-50	-11/15/76 (cds- 670 jp, 295 oak, 70 aspen) -aspen less dense to s and sw portion of stand, 2-3 stick -poor oak regeneration into canopy and aspen growth is abundant but poor quality -oak comin in under clones well but are mostly suppressed
121	4130 - Aspen	High Density Pole	51.3	40	51-80	-healthy stand
122	4125 - Black, N. Pin Oak	Low Density Pole	10.8	40	1-50	-semi open stand of rather poor quality oak -large shrubs mixed in -did not regenerate as well and contained less aspen
126	4125 - Black, N. Pin Oak	High Density Log	15.5	91	51-80	-well established red maple subcanopy -more of a hybrid n. pin oak/red oak stand
127	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	3.5	3		-NE pocket- oak converted to rm due to heavily stocked red maple subcanopy pre-harvest and browse, some scattered oak -SW pocket- mostly aspen -S pocket- non-forested, appears to have been heavier to jp before harvest was made
128	4311 - Pine, Aspen Mix	High Density Pole	13.5	76	51-80	-2-3 stick aspen, pine and oak do much better here



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
129	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	17.8	27	1-50	-5/16/85 (cde- jp 740 & qa 30) -20-30 ba oak left -under planted May 1989 -some oak planted within sw corner -50% survival in 1990 6x8 spacing -attempted to naturally regenerate jp, was roller chopped and planted to rp -cool weather with good rain and snowfall, seedlings good quality but had dry roots
132	42111 - Planted Red Pine, Mixed Deciduous	Medium Density Pole	61.2	23	1-50	-5/16/85 (cde- jp 740, ro 107, qa 30) -planted May 1989 -50% survival in 1990 6x8 spacing -attempted to naturally regenerate jp, was roller chopped and planted to rp -cool weather with good rain and snowfall, seedlings good quality but had dry roots
133	4130 - Aspen	High Density Sapling	1.1	6		
135	4121 - Oak, Aspen	High Density Log	3.2	86	51-80	-it is likely that the adjacent stand to the west had a similar composition, however, it mostly regenerated to aspen with significantly less oak -more of red oak and n. pin oak hybrids, similar to Eastern-most oak stands as far as site quality becoming increasingly better heading from SW to NE
136	42111 - Planted Red Pine, Mixed Deciduous	Medium Density Pole	13.0	23	1-50	-planted May 1989 -50% survival in 1990 6x8 spacing -attempted to naturally regenerate jp, was roller chopped and planted to rp -cool weather with good rain and snowfall, seedlings good quality but had dry roots
138	42110 - Planted Red Pine	High Density Pole	16.3	52	200+	-very consistent residual stocking
139	42120 - Planted Jack Pine	High Density Pole	3.1	52	51-80	-3 stick average jp
142	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	21.3	14		-High and Dry 17 acres cc -trenched 1997 -planted 2-0 jack pine 1998, season was dry
143	4131 - Aspen, Oak	High Density Sapling	4.1	15		
144	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	51.7	35		--1975 (505 cds jp, 100 cds b. oak, 12 cds aspen) -replanted
145	4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	2.9	94	1-50	-left for pvt buffer -small poles under log jp and oak



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3205 - Mixed Upland Shrub	57.5	No	Medium	-bearberry and reindeer moss common -mostly consists of upland shrub and scattered poor quality oak, bushy jp (north half only) and aspen -overall stand is upland shrub with juneberry, cherry, hawthorn, raspberry,
6	310 - Herbaceous Openland	1.2	Yes	Low	
7	3301 - Low Density Deciduous Tree	21.9	Yes	Medium	-mostly scattered pin oak in canopy with upland shrub mix of cherry, juneberry, and hawthorn
8	310 - Herbaceous Openland	1.2	Yes	Low	
11	122 - Road/Parking Lot	2.7	No	Unspecified	
13	330 - Low-Density Trees	12.0	Yes	Low	
14	3205 - Mixed Upland Shrub	1.1	No	Unspecified	
17	330 - Low-Density Trees	2.4	Yes	Low	
18	320 - Upland Shrub	1.9	Yes	Low	-rather small shrub pocket that is difficult to manage
19	330 - Low-Density Trees	5.2	Yes	Low	-scattered mast oak and jp
20	310 - Herbaceous Openland	1.0	Yes	Low	
21	310 - Herbaceous Openland	1.6	Yes	Low	
23	330 - Low-Density Trees	1.4	No	Unspecified	
24	330 - Low-Density Trees	3.7	Yes	Low	
30	330 - Low-Density Trees	3.6	No	Unspecified	
35	330 - Low-Density Trees	5.2	Yes	Low	
38	310 - Herbaceous Openland	1.2	Yes	Low	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
39	330 - Low-Density Trees	3.1	No	Unspecified	
40	310 - Herbaceous Openland	1.2	Yes	Low	
41	3205 - Mixed Upland Shrub	1.8	Yes	Low	
48	310 - Herbaceous Openland	1.5	No	Unspecified	-steep
50	310 - Herbaceous Openland	1.5	Yes	Low	
51	3205 - Mixed Upland Shrub	7.2	No	Low	
53	320 - Upland Shrub	1.7	No	Unspecified	
54	310 - Herbaceous Openland	5.0	Yes	Medium	
56	3302 - Low Density Conifer Trees	11.1	No	Medium	
60	122 - Road/Parking Lot	16.5	No	Unspecified	
67	3302 - Low Density Conifer Trees	2.6	No	Unspecified	
68	310 - Herbaceous Openland	1.2	Yes	Low	
69	3302 - Low Density Conifer Trees	13.9	No	Medium	
73	122 - Road/Parking Lot	5.2	No	Unspecified	
75	310 - Herbaceous Openland	1.0	Yes	Low	
77	310 - Herbaceous Openland	1.1	Yes	Low	
78	310 - Herbaceous Openland	1.1	No	Unspecified	
79	310 - Herbaceous Openland	1.0	Yes	Low	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
85	330 - Low-Density Trees	1.0	No	Unspecified	OLD BORROW PIT. Aspen moving in. Less than an acre in size.
86	310 - Herbaceous Openland	8.5	Yes	Medium	
87	310 - Herbaceous Openland	1.0	Yes	Low	
89	310 - Herbaceous Openland	1.2	Yes	Low	
91	310 - Herbaceous Openland	4.9	Yes	Low	
93	310 - Herbaceous Openland	1.1	Yes	Low	
95	3302 - Low Density Conifer Trees	4.8	No	Low	
96	310 - Herbaceous Openland	1.1	Yes	Low	
99	310 - Herbaceous Openland	1.2	Yes	Low	
100	3302 - Low Density Conifer Trees	5.8	No	Unspecified	-small pond that is mostly dried up -majority of area is upland
102	310 - Herbaceous Openland	1.5	No	Unspecified	
106	6239 - Mixed Emergent Wetland	1.0	No	Low	pond, mostly dried up
109	320 - Upland Shrub	1.0	No	Unspecified	
112	310 - Herbaceous Openland	2.8	Yes	Low	
113	310 - Herbaceous Openland	3.0	Yes	Medium	
114	330 - Low-Density Trees	1.9	No	Unspecified	
117	320 - Upland Shrub	3.5	Yes	Medium	-mostly scattered oak, cherry, and young aspen
118	310 - Herbaceous Openland	4.2	Yes	Medium	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
120	310 - Herbaceous Openland	1.0	Yes	Low	
123	623 - Emergent Wetland	1.6	No	Unspecified	-dried pond
124	3302 - Low Density Conifer Trees	5.4	No	Low	
125	310 - Herbaceous Openland	1.7	Yes	Low	
130	310 - Herbaceous Openland	1.2	Yes	Low	
131	330 - Low-Density Trees	2.3	Yes	Medium	
134	310 - Herbaceous Openland	1.2	Yes	Low	
137	310 - Herbaceous Openland	12.3	Yes	Medium	-maintain and enhance with food and cover plantings (5.9ac).
140	310 - Herbaceous Openland	1.2	Yes	Low	
141	310 - Herbaceous Openland	1.0	Yes	Low	