



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 43

Entry Year 2016

Acreage: 1,597

County Montmorency

Management Area: Rattlesnake Hills

Revision Date: 10/28/2014

Stand Examiner: Darrick Coy

Legal Description:

T31N, R02E, Section 20, 29, and 32

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 sand and loamy sand complexes. Overall, the topography is rolling to steep. The dominant covertypes are Northern Hardwood, Oak, and Aspen. The compartment forest habitat types are mostly PARVHa, PARVVb, and AFO.

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

Complete State ownership except east half of section 32. Active Antrim gas wells exist throughout the compartment.

Unique Natural Features:

Occurrences- Ram's Head Lady's Slipper

Potential Occurrences- Ram's Head Lady's Slipper and Eastern Massasauga Rattle Snake

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:

None.

Watershed and Fisheries Considerations:

None.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species which are found in this compartment. These species include elk, black bear, eastern Massasauga rattlesnake, ruffed grouse, wild turkey, 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; extensive mature forest; large open grassland complexes; 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 coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Devonian Berea Sandstone and Bedford and Antrim Shales. The Antrim is quarried for cement products elsewhere in the State. A gravel pit is located one mile to the southeast and potential is good. This area has been drilled and is producing gas from the Antrim Shale.

Vehicle Access:

Access is off Meaford road using existing two-tracks and trails. Most two-track access has been improved and is maintained by Antrim Gas activity. Illegal ORV activity in the compartment is found in many places.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Deer and small game hunting, elk viewing, and mushrooming.

Fire Protection:

Good response time being close (~10 min.) from the Atlanta field office. Difficult access in places with steep terrain and narrow two-tracks.

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: 043
 T31N R02E
 Sections: 20, 29, 32
 County: Montmorency
 Unit: Atlanta
 Management Area: Rattlesnake Hills
 YOE: 2016
 Acres: 1,597 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 09/06/2014
 Map Phase: Web Post

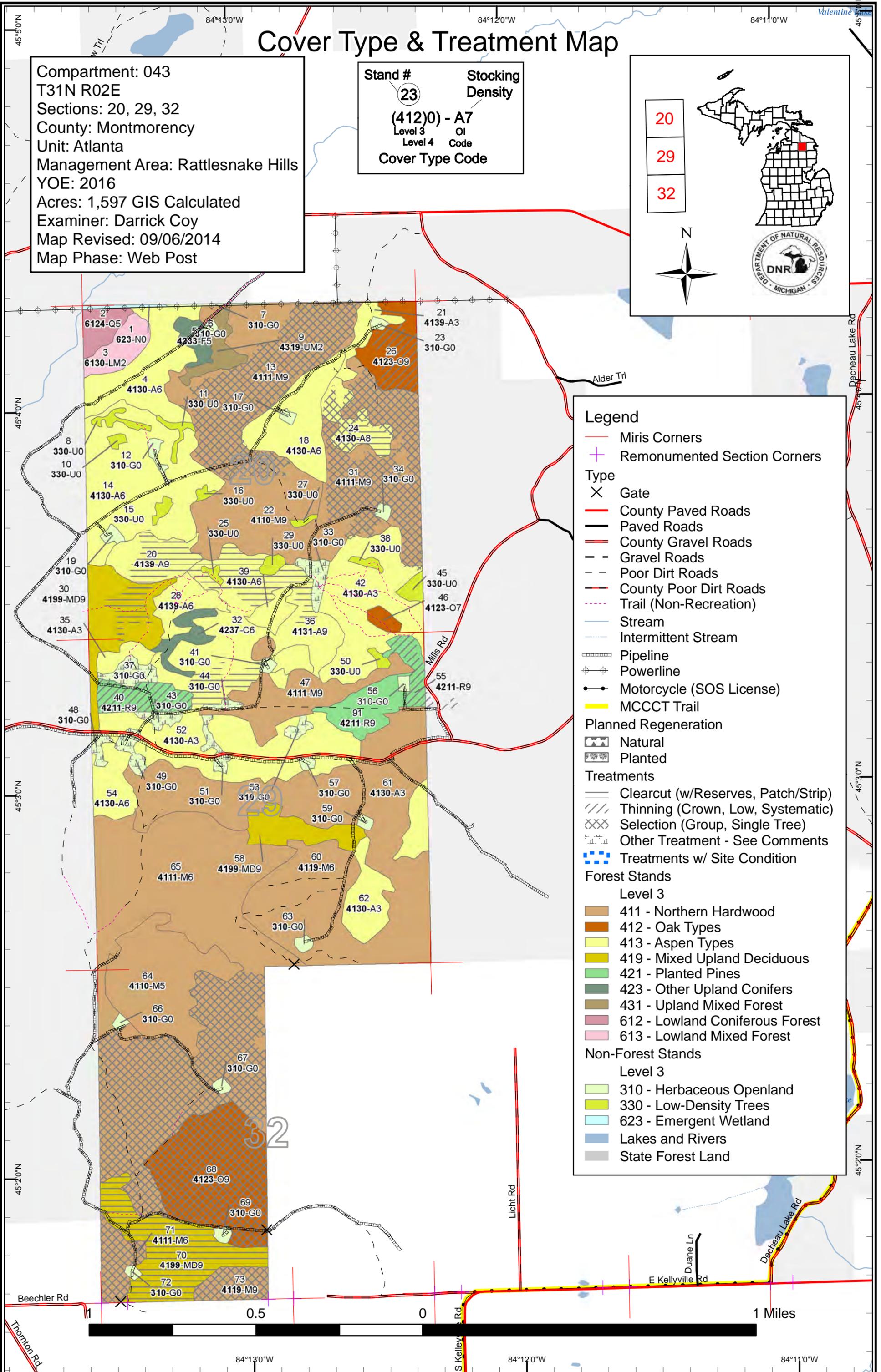
Stand # **23**
(4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

20
 29
 32



Legend

- Miris Corners
- Remonumented Section Corners
- Type
- Gate
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Pipeline
- Powerline
- Motorcycle (SOS License)
- MCCCT Trail
- Planned Regeneration
- Natural
- Planted
- Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- 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
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands
- Level 3
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 623 - Emergent Wetland
- Lakes and Rivers
- State Forest Land



84°13'0"W 84°12'0"W 84°11'0"W
 45°30'N 45°20'N

Stand Boundary Map

Compartment: 043
 T31N R02E
 Sections: 20, 29, 32
 County: Montmorency
 Unit: Atlanta
 Management Area: Rattlesnake Hills
 YOE: 2016
 Acres: 1,597 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 09/06/2014
 Map Phase: Web Post

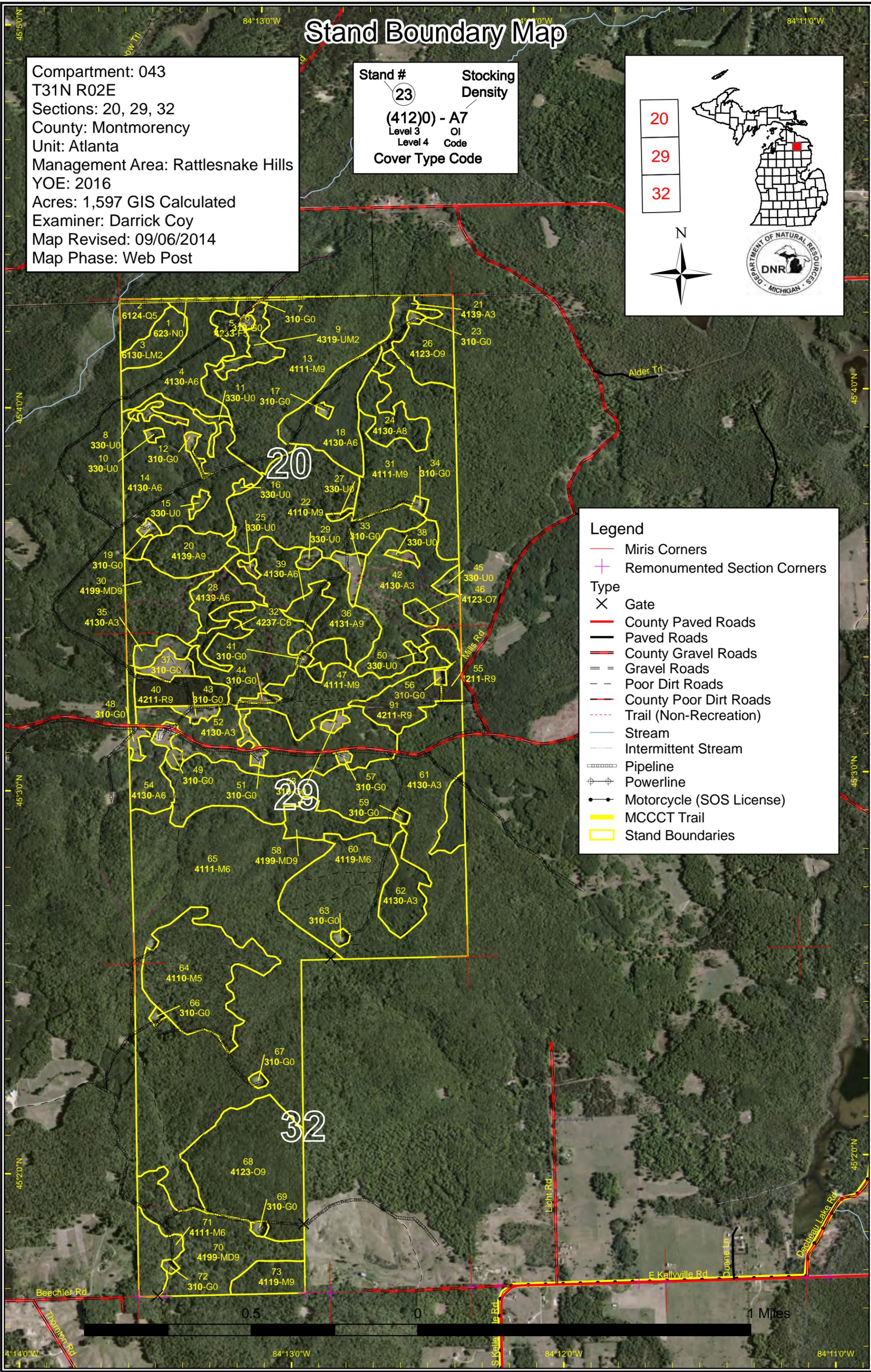
Stand # **23**
 Stacking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

20
 29
 32



Legend

- Miris Corners
- + Remonumented Section Corners
- Type
- X Gate
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- - - Trail (Non-Recreation)
- Stream
- - - Intermittent Stream
- Pipeline
- Powerline
- Motorcycle (SOS License)
- MCCCT Trail
- Stand Boundaries

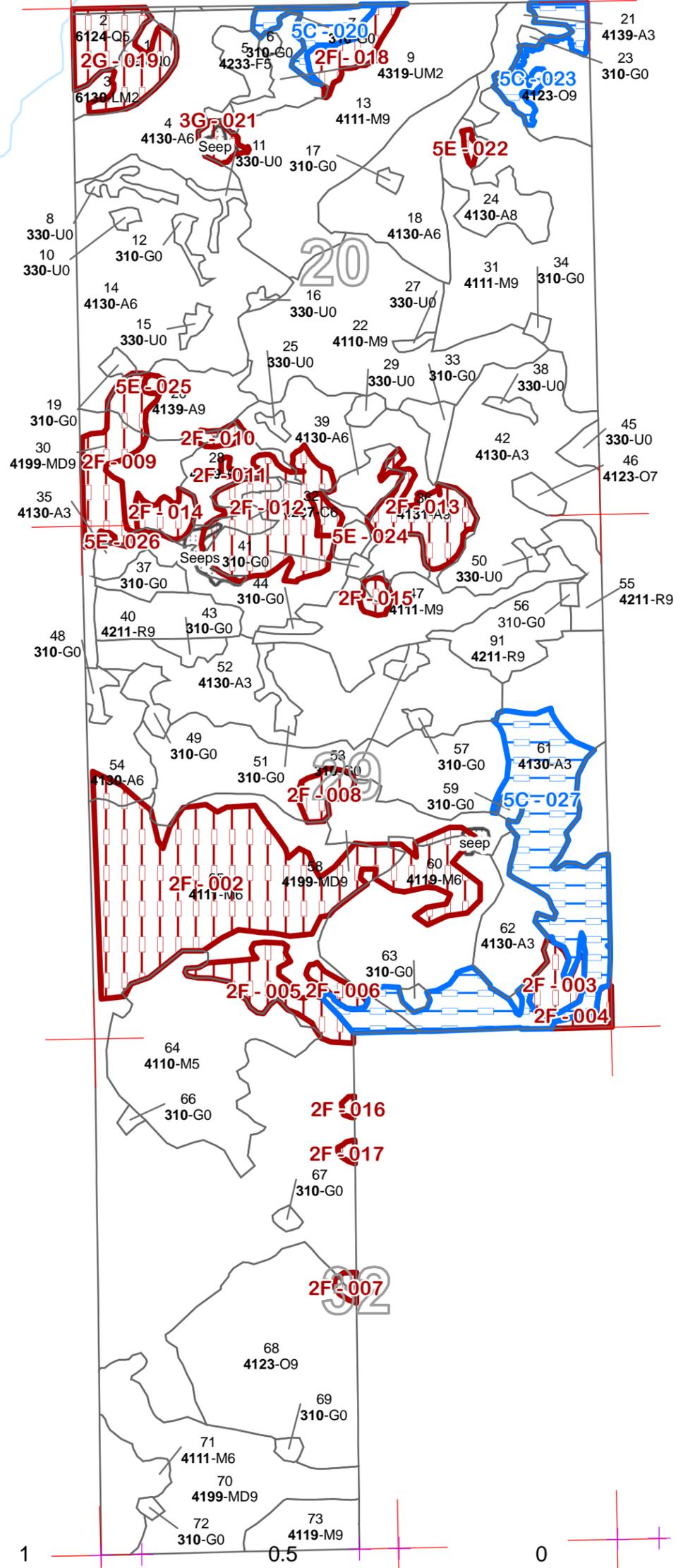
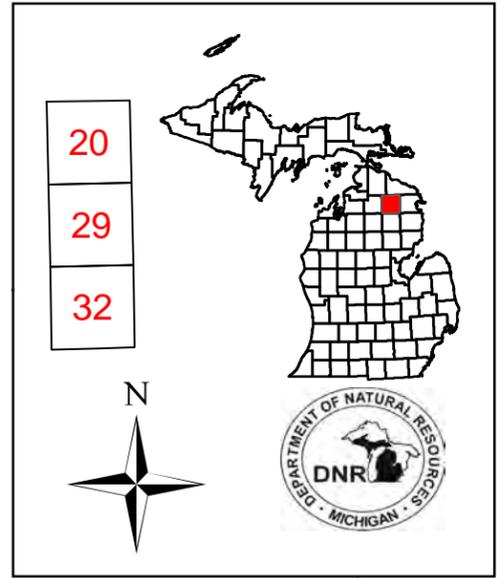


0.5 0 1 Miles

Special Conservation Areas & Site Conditions Map

Compartment: 043
 T31N R02E
 Sections: 20, 29, 32
 County: Montmorency
 Unit: Atlanta
 Management Area: Rattlesnake Hills
 YOE: 2016
 Acres: 1,597 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 09/06/2014
 Map Phase: Web Post

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



Legend

- Stand Boundaries
- Miris Corners
- Remonumented Section Corners
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Reviewable SCAs
 - Incorrect Data
 - Proposed SCA
 - SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams

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	14	62	200	64	0	0	0	80	35	0	0	0	0	0	455
Cedar	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	9	0	0	0	9
Lowland Mixed Forest	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	0	0	17	50	34	0	0	0	0	101
Northern Hardwood	0	0	0	0	0	0	0	397	337	58	0	0	0	0	792
Oak	0	0	0	0	0	0	0	3	93	0	0	0	0	0	96
Red Pine	0	0	0	0	0	41	0	0	0	0	0	0	0	0	41
Upland Mixed Forest	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Spruce/Fir	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Total	89	62	200	83	0	41	0	498	515	91	9	8	0	0	1597



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2016

Compartment 043
Total Compartment Acres: 1,597

Acres by Treatment Type

Commercial Harvest - 514 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 27

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	53	0	0	0	0	0	53
Mixed Upland Deciduous	59	0	0	0	0	0	59
Northern Hardwood	0	294	0	0	0	0	294
Oak Types	0	70	0	0	14	0	84
Planted Pines	0	0	0	0	24	0	24
Total	112	364	0	0	38	0	514



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	54043013-Cut	73.9	4111 - S.Maple, Hard Mast Association	High Density Log	79	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy.
<u>Prescription</u> -Cut all ash and beech, mark remaining residual to 80-90ba. Mark a few scattered beech to leave for wildlife.										
<u>Specs:</u>										
<u>Other</u> -regeneration/salvage harvest										
<u>Comments:</u> -already put up and on contract with Rust Wood Inc. -Mustard's Last Stand (54-028-13-01) -harvesting per Ash and Beech Guidance of 9/20/12 with management direction memo of 9/25/12										
<u>Next</u> -regen survey 3-5 yrs										
<u>Steps:</u> -acceptable regeneration is sugar maple, beech, rm, aspen, ash, oak, and basswood of medium to high stocking										
<u>Proposed</u>										
<u>Start Date:</u> 09/25/2012										
20	54043020-Cut	13.8	4139 - Aspen, Mixed Deciduous	High Density Log	82	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -partial stand harvest										
<u>Specs:</u> -clearcut -leave scattered wp (if present), rp (if present), and oak in clumps and/or individuals not to exceed a combined residual BA of around 10 -no area retention (already excluded, see site conditions) -shortwood for slope protection										
<u>Other</u> -for access and landing use gas well pad to N (flag or paint small access route) or opening to SW										
<u>Comments:</u>										
<u>Next</u> -regen survey 3-5 yrs										
<u>Steps:</u> -acceptable regeneration is aspen, maple, basswood, ash, oak, and beech of medium to high stocking										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
24	54043024-Cut	5.4	4130 - Aspen	Medium Density Log	85	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -clearcut										
<u>Specs:</u> -no area retention (already excluded, see site conditions)										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> -regen survey in 3-5 yrs										
<u>Steps:</u> -acceptable regeneration is aspen, other deciduous, and pine of medium to high stocking										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
26	54043026-Cut	13.6	4123 - Red Oak	High Density Log	82	81-110	Harvest	Crown Thinning	4123 - Red Oak	Fld. Tr. Bdy.
<u>Prescription</u> -Cut all ash and beech, mark remaining residual to 80-90ba. Mark a few scattered beech to leave for wildlife.										
<u>Specs:</u>										
<u>Other</u> -intermediate/salvage harvest										
<u>Comments:</u> -already put up and on contract with Rust Wood Inc. -Mustard's Last Stand (54-028-13-01) -harvesting per compartment review decision of 10/13/04 and Ash and Beech Guidance of 9/20/12 with management direction memo of 9/25/12										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 09/25/2012										



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	54043030-Cut	8.2	4199 - Other Mixed Upland Deciduous	High Density Log	98	51-80	Harvest	Clearcut with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -partial stand harvest										
<u>Specs:</u> -clearcut -leave scattered wp (if present), rp (if present), and oak in clumps and/or individuals not to exceed a combined residual BA of around 10 (mark oak to leave) -no area retention (already excluded, see site conditions) -shortwood for slopes protection										
<u>Other</u> -for access and landing use gas well pad to N (flag or paint small access route) or opening to SW										
<u>Comments:</u>										
<u>Next</u> -regen survey in 3-5 yrs										
<u>Steps:</u> -acceptable regeneration is aspen, maple, basswood, ash, oak, and beech of medium to high stocking										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
31	54043031-Cut	69.7	4111 - S.Maple, Hard Mast Association	High Density Log	78	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy.
<u>Prescription</u> -Cut all ash and beech, mark remaining residual to 80-90ba. Mark a few scattered beech to leave for wildlife.										
<u>Specs:</u>										
<u>Other</u> -regeneration/salvage harvest										
<u>Comments:</u> -already put up and on contract with Rust Wood Inc. -Mustard's Last Stand (54-028-13-01) -harvesting per Ash and Beech Guidance of 9/20/12 with management direction memo of 9/25/12										
<u>Next</u> -regen survey 3-5 yrs										
<u>Steps:</u> -acceptable regeneration is sugar maple, beech, rm, aspen, ash, oak, and basswood of medium to high stocking										
<u>Proposed</u> <u>Start Date:</u> 09/25/2012										
36	54043036-Cut	34.1	4131 - Aspen, Oak	High Density Log	78	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -partial stand harvest										
<u>Specs:</u> -clearcut -leave scattered wp (if present), rp (if present), and oak in clumps and/or individuals not to exceed a combined residual BA of around 10 (mark oak to leave, too high in SW portion) -protect special protection trees, mark to leave (see OFS points) -no area retention (already excluded, see site conditions) -shortwood for slope protection										
<u>Other</u> -access from south										
<u>Comments:</u> -access and landing use adj NE opening										
<u>Next</u> -regen survey 3-5 yrs										
<u>Steps:</u> -acceptable regeneration is aspen, maple, basswood, ash, oak, and beech of medium to high stocking										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
40	54043040-Cut	15.1	42110 - Planted Red Pine	High Density Log	58	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -mark thin to approx. 120 residual BA										
<u>Specs:</u> -rows get narrow in places, mark enough trees so that equipment has at least 10' of operating space										
<u>Other</u> -3rd row completed in 1997										
<u>Comments:</u>										
<u>Next</u> -regen survey 3-5 yrs										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55 54043055-Cut	9.2	42110 - Planted Red Pine	High Density Log	53	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription -partial stand harvest (see treatment layer)Specs: -mark thin to approx. 120 residual BA
-rows get narrow in places, mark enough trees so that equipment has at least 10' of operating spaceOtherComments:NextSteps:ProposedStart Date: 10/01/2015

65 54043065-Cut	124.2	4111 - S.Maple, Hard Mast Association	High Density Pole	86	81-110	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
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Prescription -partial stand harvest (see treatment layer)Specs: -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or individuals
-crop tree release remaining trees to 80 BA residual
-create 100 ft regeneration gaps in areas of primarily beech and ash at approximate spacing of 1 every 5 acres
-mark-to-cut all trees >2 in DBH in regeneration gaps (clean gaps) and under individual beech and ash
-do not mark trees to cut along side slopes greater than 35%
-shortwood to protect slopes and residual trees
-require harvesting with snow off and unfrozen ground
-advertise as 3 yr contract due to shorter harvest windowOther -regeneration/salvage harvestComments: -some areas to W and NW will have light to no marking due to lower BANext -regen survey 3-5 yearsSteps: -acceptable regeneration is aspen, sugar maple, oak, basswood, ash, pine, and beech of medium to high stockingProposedStart Date: 10/01/2015

68 54043068-Cut	70.3	4123 - Red Oak	High Density Log	87	81-110	Harvest	Group Selection	4123 - Red Oak	Cmpt. Review Proposal
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Prescription -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or individualsSpecs: -crop tree release remaining trees to 80 BA residual
-create regeneration gaps of approximately 120ft to 150ft (~1/4-1/2 acre) in mature log oak (>16 inches in DBH) or primarily beech and ash pockets at an approximate spacing of 1 every 5 acres
-mark-to-cut all trees >2 in DBH in regeneration gaps (clean gaps) and under individual beech and ash
-avoid partially marking oak stump sprout clusters (take all stems or none) to limit harvest equipment damage to residuals
-do not mark trees to cut along side slopes greater than 35%
-shortwood to protect slopes and residual trees
-require harvesting with snow off and unfrozen ground
-advertise as 3 yr contract due to shorter harvest windowOther -mostly operableComments: -regeneration/salvage harvestNext -regen survey in 3-5 yearsSteps: -acceptable regeneration is aspen, sugar maple, oak, basswood, ash, pine, and beech of medium to high stockingProposedStart Date: 10/01/2015

70 54043070-Cut	50.3	4199 - Other Mixed Upland Deciduous	High Density Log	83	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription -clearcutSpecs: -leave 2-3 mast oak and/or beech every 4-6 acres in clumps in clumps or individuals
-leave hemlock pocket(s) protected with area retention (OFS layer), protect other hemlock if foundOtherComments:Next -regen survey in 3-5 yearsSteps: -acceptable regeneration is aspen, sugar maple, oak, basswood, ash, pine, and beech of medium to high stockingProposedStart 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
71	54043071-Cut	13.8	4111 - S.Maple, Hard Mast Association	High Density Pole	78	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal

Prescription -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or individuals

Specs:
 -crop tree release remaining trees to 80 BA residual
 -create 100 ft regeneration gaps in areas of primarily beech and ash at approximate spacing of 1 every 5 acres
 -mark-to-cut all trees >2 in DBH in regeneration gaps (clean gaps) and under individual beech and ash
 -do not mark trees to cut along side slopes greater than 35%
 -shortwood to protect slopes and residual trees
 -require harvesting with snow off and unfrozen ground
 -advertise as 3 yr contract due to shorter harvest window

Other -regeneration/salvage harvest

Comments: -1/2 of stand will have light to no marking due to low BA

Next -regen survey 3-5 years

Steps: -acceptable regeneration is aspen, sugar maple, oak, basswood, ash, pine, and beech of medium to high stocking

Proposed

Start Date: 10/01/2015

73	54043073-Cut	12.4	4119 - Mixed Northern Hardwoods	High Density Log	84	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or individuals

Specs:
 -crop tree release remaining trees to 80 BA residual
 -create 100 ft regeneration gaps in areas of primarily beech and ash at approximate spacing of 1 every 5 acres
 -mark-to-cut all trees >2 in DBH in regeneration gaps (clean gaps) and under individual beech and ash
 -do not mark trees to cut within 66ft of hemolck or along side slopes greater than 35%
 -shortwood to protect slopes and residual trees
 -require harvesting with snow off and unfrozen ground
 -advertise as 3 yr contract due to shorter harvest window

Other -regeneration/salvage harvest

Comments:

Next -regen survey 3-5 years

Steps: -acceptable regeneration is aspen, sugar maple, oak, basswood, ash, pine, and beech of medium to high stocking

Proposed

Start Date: 10/01/2015

33	NF_54043033- NonFor	4.9	3102 - Grass				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
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Prescription Maintain as opening through mowing and/or planting to food and cover crops for wildlife

Specs:

Other Avoid gas well area

Comments:

Next Monitor for cover type and perform opening maintenance on 5-10 year rotation

Steps:

Proposed

Start Date: Unspecified

37	NF_54043037- NonFor	5.8	3102 - Grass				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
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Prescription Maintain as opening through mowing and/or planting to food and cover crops for wildlife

Specs:

Other

Comments:

Next Monitor for cover type and perform opening maintenance on 5-10 year rotation

Steps:

Proposed

Start Date: 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
43	NF_54043043- NonFor	3.1	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
<u>Prescription</u> Maintain as opening through mowing and/or planting to food and cover crops for wildlife										
<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										
44	NF_54043044- NonFor	1.5	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
<u>Prescription</u> Maintain as opening through mowing and/or planting to food and cover crops for wildlife										
<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_54043048- NonFor	2.6	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Maintain as opening through mowing and/or planting to food and cover crops for wildlife										
<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										
49	NF_54043049- NonFor	4.2	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Maintain as opening through mowing and/or planting to food and cover crops for wildlife										
<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										
51	NF_54043051- NonFor	3.4	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Maintain as opening through mowing and/or planting to food and cover crops for wildlife										
<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										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53 NF_54043053-NonFor	2.0	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Maintain as opening through mowing and/or planting to food and cover crops for wildlife
Specs:

Other
Comments:

Next Monitor for cover type and perform opening maintenance on 5-10 year rotation
Steps:

Proposed
Start Date: Unspecified

**Total Treatment
 Acreage Proposed: 541.3**

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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!

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

Total Treatment Acreage Proposed:	0.0
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Report 5 – Site Conditions

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Compartment 043
Year of Entry 2016

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5E	5C	3G	2G	2F
	Available	Not Available							
454	405	49	Aspen	405	3				45
8	2	6	Cedar	2					6
9	0	9	Lowland Conifers	0				9	
12	4	8	Lowland Mixed Forest	4				8	
100	81	19	Mixed Upland Deciduous	81	0				19
790	660	130	Northern Hardwood	590		70	3		127
96	96	1	Oak	87		8			1
41	41		Red Pine	41					
9	9		Upland Mixed Forest	9					
6	6		Upland Spruce/Fir	6					
1,525	1,303	222	Total Forested Acres	1,225	4	78	3	17	198
	85%	15%	Relative Percent						

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	2F: Too steep	93				
Comments:							
003	Not Available	2F: Too steep	6				
Comments:							
004	Not Available	2F: Too steep	2				
Comments:							

Report 5 – Site Conditions

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005	Not Available	2F: Too steep	13	
Comments:				
006	Not Available	2F: Too steep	3	
Comments:				
007	Not Available	2F: Too steep	1	
Comments:				
008	Not Available	2F: Too steep	5	
Comments:				
009	Not Available	2F: Too steep	16	
Comments:				
010	Not Available	2F: Too steep	2	
Comments:				
011	Not Available	2F: Too steep	1	
Comments:				
012	Not Available	2F: Too steep	29	
Comments:				

Report 5 – Site Conditions

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Year of Entry 2016

013 Not Available 2F: Too steep 14

Comments:

014 Not Available 2F: Too steep 5

Comments:

015 Not Available 2F: Too steep 2

Comments:

016 Not Available 2F: Too steep 1

Comments:

017 Not Available 2F: Too steep 1

Comments:

018 Not Available 2F: Too steep 7

Comments:

019 Not Available 2G: Too wet (sensitive
soils, does not include
access issues) 18

Comments:

Report 5 – Site Conditions

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020	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	
Comments:				
021	Not Available	3G: Other Influence zones - See comments	3	
Comments:				
022	Not Available	5E: Long Term Retention	1	
Comments:				
023	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	
Comments:				
024	Not Available	5E: Long Term Retention	2	2F: Too steep
Comments:				
025	Not Available	5E: Long Term Retention	1	2F: Too steep
Comments:				
026	Not Available	5E: Long Term Retention	1	2F: Too steep
Comments:				

Report 5 – Site Conditions

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Compartment 043
Year of Entry 2016

027	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61
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Comments:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
seep Comments	Spring-Seeps, Riparian Areas	Spring Seep	SCA	1.1
Seep Comments	Spring-Seeps, Riparian Areas	Spring Seep	SCA	1.1
Seeps Comments	Spring-Seeps, Riparian Areas	Spring Seep	SCA	2.6



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.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6124 - Lowland Spruce-Fir	Medium Density Pole	9.0	104	51-80	-more sapling cedar to nw where ground becomes increasingly saturated -crowns in poor shape -eventually will convert to fir -snowmobiled to stand using powerline, walking would be very difficult/wet
3	6130 - Fir, Aspen, Maple	Medium Density	12.3	35	1-50	-was cut with upland aspen -growth is more stagnant' -tag alder and thick balsam fir throughout
4	4130 - Aspen	High Density Pole	37.6	35	51-80	
5	42330 - Upland Fir	Medium Density Pole	6.3	37	51-80	-same age as adjacent aspen stand
9	4319 - Mixed Upland Forest	Medium Density	8.8	5	1-50	-Powerline along north edge -appears to have been browsed a lot in rm and other hwd -fir and other hwd should fill in over time -Mills Hills 54-020-06-01 -Unit 2 -cut all rm, aspen, birch, and orange trees -closed 12/11/08 -vol. cut- 58%rm, 18% birch, 22% aspen, 2% bsw
13	4111 - S.Maple, Hard Mast Association	High Density Log	90.9	79	111-140	-steep slopes to NW
14	4130 - Aspen	High Density Pole	73.8	26	1-50	
18	4130 - Aspen	High Density Pole	32.7	24	1-50	-small strip of cedar bisecting N-S through stand with some black ash
20	4139 - Aspen, Mixed Deciduous	High Density Log	19.6	82	51-80	-about 1/2 aspen showing rot
21	4139 - Aspen, Mixed Deciduous	High Density Sapling	7.8	5		-some hemlock -Mills Hills 54-020-06-01 -Unit 1 -cut all rm, aspen, birch, and orange trees -closed 12/11/08 -vol. cut- 45%rm, 24% birch, 31% aspen
22	4110 - Sugar Maple Association	High Density Log	69.6	89	51-80	-stand is more open to west half with some aspen pockets -best timber in NE
24	4130 - Aspen	Medium Density Log	15.3	85	51-80	
26	4123 - Red Oak	High Density Log	22.0	82	81-110	-steep to east half -primarily an oak stand

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 043
Year of Entry: 2016

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4139 - Aspen, Mixed Deciduous	High Density Pole	13.0	27	1-50	-left areas untreated along steep areas -mutant stand
30	4199 - Other Mixed Upland Deciduous	High Density Log	33.6	98	51-80	-most oak are mast with low timber value -steep slopes -east 1/3rd of stand appears to have had some cutting, more saps/less closure
31	4111 - S.Maple, Hard Mast Association	High Density Log	65.8	78	111-140	
32	42370 - Upland Cedar, Aspen	High Density Pole	8.1	112	111-140	-seep on bottom/side of hill
35	4130 - Aspen	High Density Sapling	5.9	5		-cherry and rm will be subcanopy next yoe -still too young for any definable subcanopy -10-20ft tall, good coverage -Mills Hills 54-020-06-01 -Unit 3 -cut all trees -closed 12/11/08 -vol. cut- 17%rm, 82% aspen
36	4131 - Aspen, Oak	High Density Log	80.0	78	51-80	-TOO STEEP TO WORK PART WAS SOLD WITH ST 32. Comments from sale #54-003-86-01, stated:"Units II and III not complete due to steep slopes and poor quality timber". Part of unit I not cut.
39	4130 - Aspen	High Density Pole	11.6	35	1-50	
40	42110 - Planted Red Pine	High Density Log	15.1	58	141-170	-THINNED 1997, SALE 4-97
42	4130 - Aspen	High Density Sapling	55.0	26	1-50	-more hwd to west 1/2
46	4123 - Red Oak	Low Density Log	3.4	78	1-50	-mast oak area left untreated
47	4111 - S.Maple, Hard Mast Association	High Density Log	33.8	79	81-110	-xll size oak mostly -ironwood in a lot of subcanopy
52	4130 - Aspen	High Density Sapling	62.0	15	1-50	-CUT 1998, SALE 29-96
54	4130 - Aspen	High Density Pole	15.1	30	1-50	
55	42110 - Planted Red Pine	High Density Log	8.7	53	141-170	-same age as rp to west, broke out due to past partial stand treatment
58	4199 - Other Mixed Upland Deciduous	High Density Log	16.8	79	51-80	-yellow birch scattered throughout -some elm -significant amount of birch in general

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 043
Year of Entry: 2016

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4119 - Mixed Northern Hardwoods	High Density Pole	193.1	77	81-110	Some areas inoperable due to steep slopes. -OI stand 35- thinned in 1987....check -OI stand 36- THINNED 88-89.
61	4130 - Aspen	High Density Sapling	8.8	23	1-50	
62	4130 - Aspen	High Density Sapling	17.0	24	1-50	-some hwd mixed in -Mix of aspen and hardwoods. Some areas thick with hardwoods. Steep to south.
64	4110 - Sugar Maple Association	Medium Density Pole	57.6	91	1-50	-Ground is somewhat level for operations, pole sized stand heavy to the 6 and 8 inch diameter trees.
65	4111 - S.Maple, Hard Mast Association	High Density Pole	255.2	86	81-110	-smaller poles to NW with steep terrain -more logs in south half -borderline log stand -S 1/2- 59 plot average (1 point/2 acres) BA 107 for AOI (BA breakdown- 8 ash, 6 beech, 93 others)
68	4123 - Red Oak	High Density Log	70.9	87	81-110	-45 plot average (1 point/2 acres) BA 110 (BA breakdown- 4 ash, 2 beech, 103 others)
70	4199 - Other Mixed Upland Deciduous	High Density Log	50.4	83	51-80	-fairly consistent aspen component -about half showing signs of internal rot -northern hardwood is developing but is not very good quality
71	4111 - S.Maple, Hard Mast Association	High Density Pole	13.8	78	111-140	-more poles in this stand, still log though -privately fenced in N. Hardwood to NW shows good ironwood and beech subcanopy control via livestock grazing -drastic difference between State and private, no other regen though
73	4119 - Mixed Northern Hardwoods	High Density Log	12.3	84	111-140	-appears to be poor regeneration results after cut was made on private to south, primarily beech and ironwood
91	42110 - Planted Red Pine	High Density Log	17.3	53	111-140	-3rd row thinned in 2000 -same age as rp to west, broke out due to past partial stand treatment -old railroad grade bisects stand



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	623 - Emergent Wetland	1.5	No	Unspecified	-increasingly saturated and cattails to west half
6	310 - Herbaceous Openland	1.0	Yes	Low	Gas pad newly constructed 02/04, A2-20.
7	310 - Herbaceous Openland	1.3	No	Unspecified	
8	330 - Low-Density Trees	2.7	No	Unspecified	
10	3301 - Low Density Deciduous Tree	1.1	No	Unspecified	
11	3301 - Low Density Deciduous Tree	2.3	No	Unspecified	
12	310 - Herbaceous Openland	2.0	Yes	Low	
15	3301 - Low Density Deciduous Tree	1.6	Yes	Low	-seasonally wet -pockets of BAM -was cut/managed with surrounding aspen but didn't regenerate as well due to wetness
16	3301 - Low Density Deciduous Tree	1.0	No	Unspecified	
17	310 - Herbaceous Openland	1.0	Yes	Low	
19	310 - Herbaceous Openland	1.6	Yes	Low	
23	310 - Herbaceous Openland	1.0	Yes	Low	
25	3301 - Low Density Deciduous Tree	1.2	No	Unspecified	
27	3301 - Low Density Deciduous Tree	1.0	No	Unspecified	
29	3301 - Low Density Deciduous Tree	2.3	No	Unspecified	
33	3102 - Grass	4.9	Yes	Medium	
34	310 - Herbaceous Openland	1.2	Yes	Low	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
37	3102 - Grass	5.8	Yes	Medium	-appears to have been seeded
38	330 - Low-Density Trees	1.6	No	Unspecified	
41	310 - Herbaceous Openland	1.1	Yes	Low	
43	310 - Herbaceous Openland	3.1	Yes	Low	
44	310 - Herbaceous Openland	1.5	Yes	Low	
45	3301 - Low Density Deciduous Tree	2.9	No	Unspecified	
48	310 - Herbaceous Openland	2.6	Yes	Medium	
49	310 - Herbaceous Openland	4.2	Yes	Medium	
50	3301 - Low Density Deciduous Tree	1.3	No	Unspecified	
51	310 - Herbaceous Openland	3.4	Yes	Medium	
53	310 - Herbaceous Openland	2.0	Yes	Medium	
56	310 - Herbaceous Openland	1.0	Yes	Low	
57	310 - Herbaceous Openland	1.0	Yes	Low	
59	310 - Herbaceous Openland	1.0	Yes	Low	
63	310 - Herbaceous Openland	1.4	Yes	Low	
66	310 - Herbaceous Openland	1.0	Yes	Low	
67	310 - Herbaceous Openland	1.2	Yes	Low	
69	310 - Herbaceous Openland	1.3	Yes	Low	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
72	310 - Herbaceous Openland	1.0	Yes	Low	