



ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION
COMPARTMENT 18 ENTRY YEAR: 2013

Compartment Acreage: 1200 County: Montmorency

Revision Date: October 27, 2011

Stand Examiner: Jeff Autenrieth

Legal Description: T29N, R03E, Sec. 21, 28, &33.

RMU (if applicable):

Management Goals: There is northern hardwood management throughout the compartment, and some aspen from previous timber sales. There are seven Antrim Shale wells currently on state land. There is some target shooting and associated trash in the small gravel pit on Blue Lakes rd. There are numerous seeps and springs on the east side of the compartment that develop into streams, which eventually run into Gilchrist Creek. Beaver activity is present.

Soil and Topography: The soils present in this compartment better than the norm for this area. The primary types include Rubicon-roselawn sands, Kalkaska, Emmet, Newton, and Saugatuck sandy loams, and Lupton Peat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There is a few permanent residences, but mostly seasonal and recreational use.

Unique, Natural Features (include only non-site specific and non-sensitive information): Possible Occurrence.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Possible Occurrence.

Special Management Designations or Considerations: Antrim Shale gas development with seven gas wells located on state lands. The gravel pit is used to target shooting as well as illegal off-road vehicle use.

Watershed and Fisheries Considerations: Stream corridors are to be protected and road density is to be kept to a minimum. Any erosion to streams, springs, or seeps should be avoided at all cost. These streams converge into Gilchrist creek.

Wildlife Habitat Considerations: This compartment is heavily used by several featured species including deer, ruffed grouse, woodcock, turkeys, bear, pileated woodpeckers, and has potential for use by red-shouldered hawks. There are some narrow outwash channels along the eastern edge of the compartment that are primarily mature cedar, with a history of deer browse, and other swamp conifers. Timber harvest in this area should be limited. Aspen treatments should include large down materials left on the ground for

drumming logs and small mammals, salamanders, and insects. Treatments in upland northern hardwoods should include some tree length trees, including tops, be left on the ground after treatment is completed.

Mineral Resource and Development Concerns and/or Restrictions: Avoid vertical drilling of the Antrim shale and associated pipe lines. Surface sediments consist of an end moraine of medium-textured till, glacial outwash sand and gravel and postglacial alluvial and coarse-textured glacial till. Glacial drift thickness varies between 200 and 600 feet. There is approximately 220 feet of local relief within the compartment. Beneath the Glacial Drift is the Mississippian Coldwater Shale. There is no known economic use for coldwater shale. The nearest gravel pit is located in the SW of Section 21 to the north and potential in the compartment for gravel is considered good. This area has been drilled and is producing gas from the Antrim Shale.

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

Survey Needs: No surveys are needed at this time. Two gates, installed by Shell Western, on trails to private property are located onto state land. These gates restrict access and should be re-located.

Recreational Facilities and Opportunities: Hunting, fishing, and mushroom picking.

Fire Protection: Adequate.

Additional Compartment Information:

- **The following 5 reports from the IFMAP system are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

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

Cover Type & Treatment Map

Compartment 18
 T29N, R03E, Sec. 21, 28, 33
 County: Montmorency
 Unit: Atlanta
 YOE: 2013
 Acres: 1,210 GIS Calculated
 Stand Examiner: Jeff Autenrieth
 Map Revised: 8/11/2011
 Map Phase: Pre-Review

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

Legend

- County Paved Roads
- Paved Roads
- Poor Dirt Roads
- Pipe
- Intermittent Stream/Drain
- Stream
- Motorcycle Trails (DNR License)
- Motorcycle (DNR Sticker)

Compartments

- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

Forest Stands

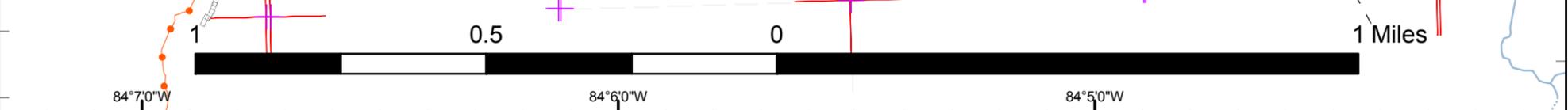
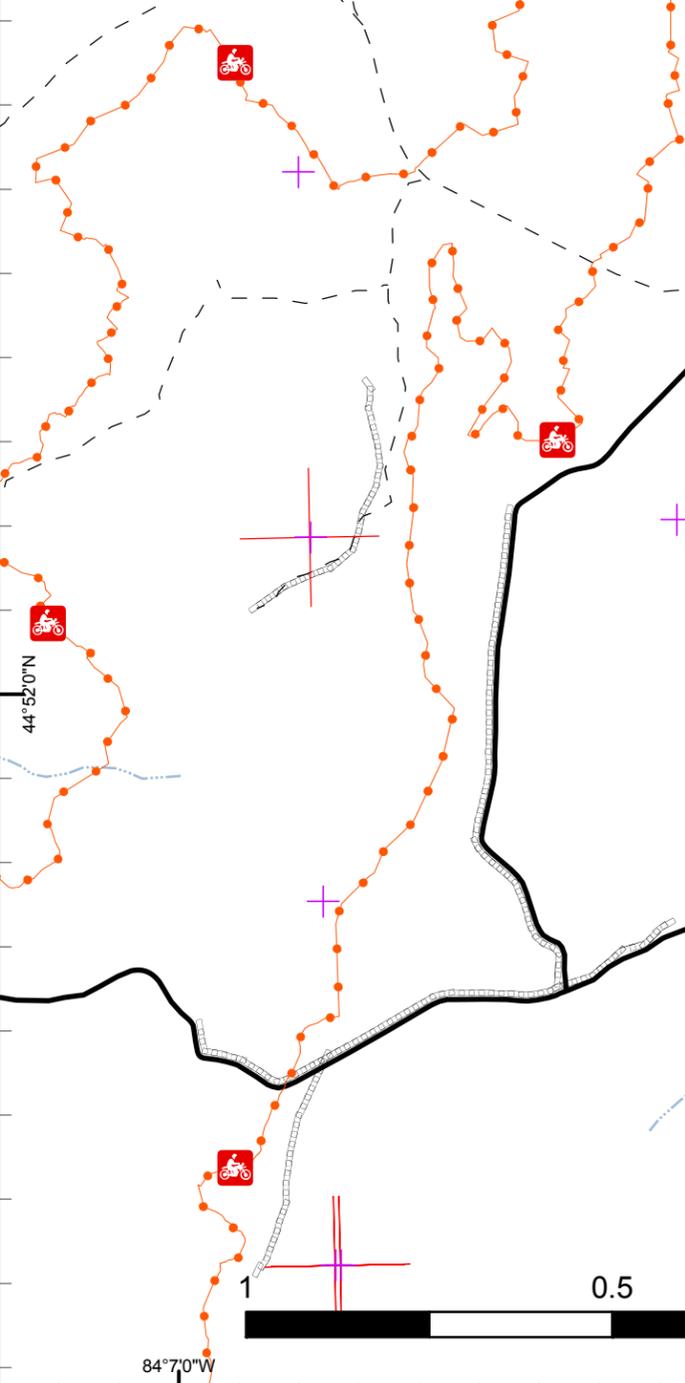
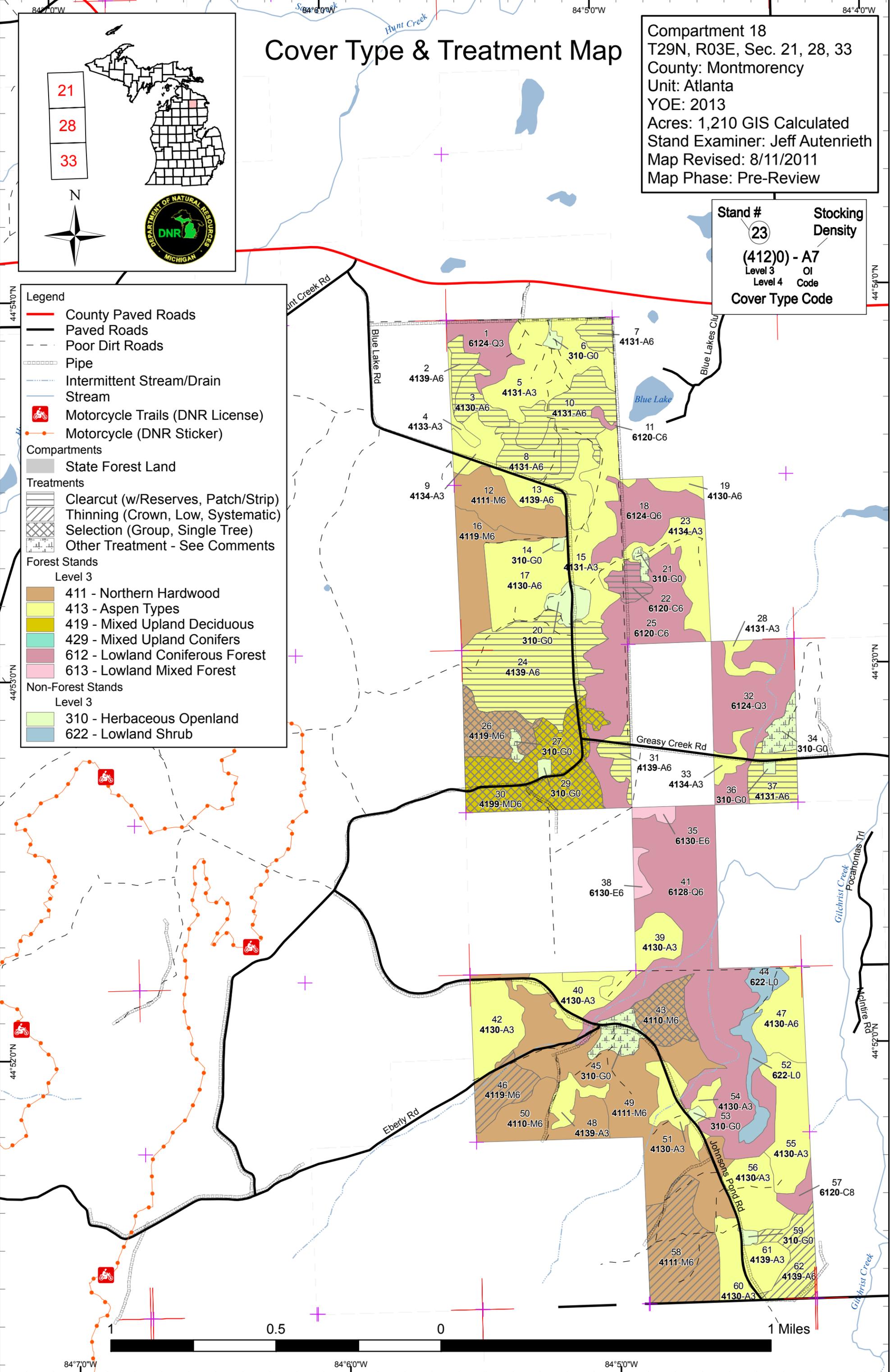
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Compartment 18
 T29N, R03E, Sec. 21, 28, 33
 County: Montmorency
 Unit: Atlanta
 YOE: 2013
 Acres: 1,210 GIS Calculated
 Stand Examiner: Jeff Autenrieth
 Map Revised: 8/11/2011
 Map Phase: Pre-Review

21
 28
 33



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

Legend

- Miris Corners
- Special Conservation Areas
- Cold Water Streams
- Stand Boundaries

Forest Stands

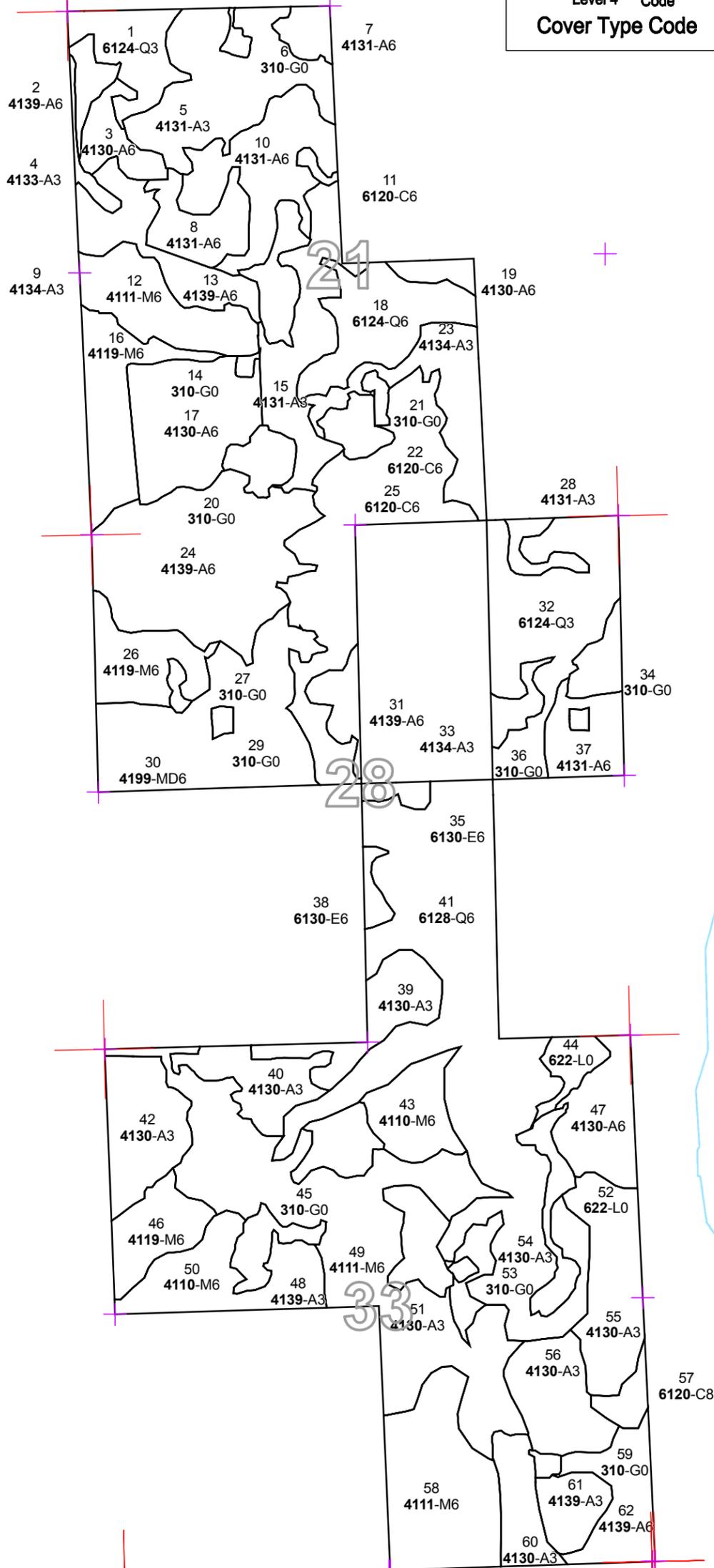
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Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub



1 0.5 0 1 Miles

84°7'0"W

84°6'0"W

84°5'0"W

84°4'0"W

44°54'0"N

44°53'0"N

44°52'0"N

44°54'0"N

44°53'0"N

44°52'0"N

Table 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 018 Year of Entry 2013

Jeffrey Autenrieth : Examiner



	Age Class															Total
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen	0	0	55	139	113	147	10	46	20	0	0	0	0	0	0	529
Cedar	0	0	0	0	0	0	0	0	0	0	1	60	12	0	0	74
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Conifers	0	0	0	0	17	0	0	0	0	0	0	208	0	0	0	226
Lowland Mixed Forest	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	55
Northern Hardwood	0	0	0	0	0	0	0	100	27	98	25	0	0	0	19	269
Total	52	0	55	139	136	147	10	146	47	153	26	269	12	0	19	1210



Table 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2013

Compartment 018
Total Compartment Acres: 1210

Acres by Treatment Type

Commercial Harvest - 311	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 17	Opening Maintenance - 21	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	155	0	0	0	19	0	174
Cedar	7	0	0	0	0	0	7
Mixed Upland Deciduous	0	55	0	0	0	0	55
Northern Hardwood	0	35	0	0	58	0	92
Total	162	90	0	0	76	0	328



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	54018002-Cut	5.5	4139 - Aspen, Mixed Deciduous	High Density Pole	47	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Cut all aspen, maple, birch and balsam fir regardless of merchantability. Leave one retention pocket .2 acres in size.

Specs:

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

Comments:

Next

Steps:

3	54018003-Cut	9.9	4130 - Aspen	High Density Pole	51	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Cut all aspen, maple, and poplar regardless of merchantability. Leave one pocket .4 of an acre for retention.

Specs:

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

Comments:

Next

Steps:

7	54018007-Cut	5.8	4131 - Aspen, Oak	High Density Pole	46	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Cut all aspen and pine. Leave one oak per acre. Leave one pocket .2 acres in size for retention.

Specs:

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

Comments:

Next

Steps:

8	54018008-Cut	14.9	4131 - Aspen, Oak	High Density Pole	49	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Cut all aspen, maple, and pine. Leave one vigorous oak per acre. Leave one pocket .5 acres in size for retention.

Specs:

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

Comments:

Next

Steps:

10	54018010-Cut	31.7	4131 - Aspen, Oak	High Density Pole	60	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Cut all aspen, maple, and balsam fir regardless of merchantability. Leave one vigorous oak per acre. Leave one pocket 1 acre in size for retention.

Specs:

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

Comments:

Next

Steps:



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	54018022-Cut	6.9	6120 - Lowland Cedar	High Density Pole	114	Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Cmpt. Review Proposal

Prescription Cut all cedar, birch, and balsam fir. Do not cut any hemlock. Place two birch logs around each hemlock for nurse logs. These do not need to be merchantable pieces.

Other Acceptable regen would be of cedar and mixed conifer.
Comments:

Next Burn to prepare a seed bed and promote regen.
Steps:

24	54018024-Cut	66.2	4139 - Aspen, Mixed Deciduous	High Density Pole	47	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Cut all aspen, oak, maple, and birch. Leave one good mast producing oak per acre and a 2 acre pocket for retention.

Specs:

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

Next
Steps:

26	54018026-Cut	18.5	4119 - Mixed Northern Hardwoods	High Density Pole	73	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Thin to 70-80ba. Favor to cut large oak, beech, and trees with crook, sweep, or disease.

Specs:

Other Acceptable regen can be of mixed northern hardwoods.
Comments:

Next
Steps:

30	54018030-Cut	55.0	4199 - Other Mixed Upland Deciduous	High Density Pole	83	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Thin to 70-80ba.

Specs:

Other Acceptable regen can be of mixed northern hardwoods.
Comments:

Next
Steps:

31	54018031-Cut	7.5	4139 - Aspen, Mixed Deciduous	High Density Pole	47	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Final harvest, cut all aspen, basswood, maple, birch, oak, and ironwood regardless of merchantability. Leave a pocket .2 acres in size for retention.

Other Acceptable regen can be of mixed oak, hardwoods and aspen.
Comments:

Next
Steps:



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	54018037-Cut	13.8	4131 - Aspen, Oak	High Density Pole	67	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Cut all aspen, oak, and maple regardless of merchantability. Leave one pocket .5 acres in size for retention. <u>Specs:</u> <u>Other</u> Acceptable regen can be of mixed maple, oak and aspen. <u>Comments:</u> <u>Next Steps:</u>									
43	54018043-Cut	16.4	4110 - Sugar Maple Association	High Density Pole	84	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Thin to 70-80ba. Favor basswood, ash, and diseased trees to take. <u>Specs:</u> <u>Other</u> Acceptable regen can be of mixed northern hardwoods. <u>Comments:</u> <u>Next Steps:</u>									
46	54018046-Cut	15.7	4119 - Mixed Northern Hardwoods	High Density Pole	85	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Thin to 70-80ba. Favor ash, beech, and diseased or low quality maple to cut. <u>Specs:</u> <u>Other</u> Acceptable regen can be of mixed northern hardwoods. <u>Comments:</u> <u>Next Steps:</u>									
58	54018058-Cut	41.8	4111 - S.Maple, Hard Mast Association	High Density Pole	89	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Thin to 70-80ba. Favor basswood clumps, diseased trees, and beech. <u>Specs:</u> <u>Other</u> Acceptable regen can be of mixed northern hardwoods. <u>Comments:</u> <u>Next Steps:</u>									
62	54018062-Cut	18.9	4139 - Aspen, Mixed Deciduous	High Density Pole	47	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Cut all ironwood. Thin hardwoods to 60-70ba. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next Steps:</u>									
21	NF_54018021-NonFor	2.0	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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 Steps:</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation									

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	NF_54018027- NonFor	1.7	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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>									
34	NF_54018034- NonFor	7.2	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Maintain as opening through planting to food and cover crops for wildlife									
<u>Specs:</u>									
<u>Other</u> Share-cropped with NWTF									
<u>Comments:</u>									
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation									
<u>Steps:</u>									
45	NF_54018045- NonFor	9.8	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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>									
Total Treatment Acreage Proposed:		349.1							

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

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013



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

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Atlanta Mgt. Unit

5 – Forested Stands

Compartment: 018
Year of Entry: 2013

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6124 - Lowland Spruce- Fir	High Density Sapling	17.0	33		
4139 - Aspen, Mixed Deciduous	High Density Pole	5.5	47	111-140	
4130 - Aspen	High Density Pole	9.9	51	111-140	
4133 - Aspen, Mixed Pine	High Density Sapling	3.0	16		
4131 - Aspen, Oak	High Density Sapling	41.6	26		
4131 - Aspen, Oak	High Density Pole	5.8	46		Small wildlife opening in stand.
4131 - Aspen, Oak	High Density Pole	14.9	49	81-110	
4134 - Aspen, Spruce/Fir	High Density Sapling	21.3	26		New stand added.
4131 - Aspen, Oak	High Density Pole	31.7	60	111-140	
6120 - Lowland Cedar	High Density Pole	1.4	99		
4111 - S.Maple, Hard Mast Association	High Density Pole	24.3	89	51-80	Recent harvest.
4139 - Aspen, Mixed Deciduous	High Density Pole	10.3	49		
4131 - Aspen, Oak	High Density Sapling	29.6	29		
4119 - Mixed Northern Hardwoods	High Density Pole	24.6	92	51-80	
4130 - Aspen	High Density Pole	34.3	38		Do not cut this entry to break up age class of aspen.
6124 - Lowland Spruce- Fir	High Density Pole	27.2	105		
4130 - Aspen	High Density Pole	4.4	35		
6120 - Lowland Cedar	High Density Pole	6.9	114		

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Atlanta Mgt. Unit

5 – Forested Stands

Compartment: 018

Year of Entry: 2013



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	High Density Sapling	24.3	31		
4139 - Aspen, Mixed Deciduous	High Density Pole	66.2	47	141-170	
6120 - Lowland Cedar	High Density Pole	60.3	106		Some blowdown occurring. Lots of deer present in winter.
4119 - Mixed Northern Hardwoods	High Density Pole	18.5	Uneven Age	141-170	
4131 - Aspen, Oak	High Density Sapling	4.9	40		
4199 - Other Mixed Upland Deciduous	High Density Pole	55.0	83	171-200	
4139 - Aspen, Mixed Deciduous	High Density Pole	7.5	47		
6124 - Lowland Spruce- Fir	High Density Sapling	48.0	103		
4134 - Aspen, Spruce/Fir	High Density Sapling	5.2	26		
6130 - Fir, Aspen, Maple	High Density Pole	3.3	36		
4131 - Aspen, Oak	High Density Pole	13.8	67		Oak is starting to decay, conks are present and are poor quality.
6130 - Fir, Aspen, Maple	High Density Pole	3.3	36		
4130 - Aspen	High Density Sapling	17.8	35		
4130 - Aspen	High Density Sapling	16.2	26		
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	133.3	100		Some blow down. Several small streams through-out stand. In many places water is flowing underground. Very unique. Equipment access would damage the integrity of the stand as well as the streams.
4130 - Aspen	High Density Sapling	23.3	18		
4110 - Sugar Maple Association	High Density Pole	16.4	84	141-170	
4119 - Mixed Northern Hardwoods	High Density Pole	15.7	85	111-140	

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Atlanta Mgt. Unit

5 – Forested Stands

Compartment: 018
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4130 - Aspen	High Density Pole	20.1	78		This stand is bordered on the east and west sides by Gilchrist Creek. It is also bordered on the north and east by private property. The west and south are bordered by a beaver flooding, and steep terrain also to the south.
48	4139 - Aspen, Mixed Deciduous	High Density Sapling	7.8	26		Good ironwood regen.
49	4111 - S.Maple, Hard Mast Association	High Density Pole	100.0	61	81-110	
50	4110 - Sugar Maple Association	High Density Pole	27.4	73	51-80	Recent cut.
51	4130 - Aspen	High Density Sapling	10.9	22		
54	4130 - Aspen	High Density Sapling	6.5	26		
55	4130 - Aspen	High Density Sapling	28.3	18		
56	4130 - Aspen	High Density Sapling	21.0	38		
57	6120 - Lowland Cedar	Medium Density Log	5.1	111		More that 50% blow down.
58	4111 - S.Maple, Hard Mast Association	High Density Pole	41.8	89	111-140	
60	4130 - Aspen	High Density Sapling	13.1	43		
61	4139 - Aspen, Mixed Deciduous	High Density Sapling	10.6	35		
62	4139 - Aspen, Mixed Deciduous	High Density Pole	18.9	47	200+	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	3102 - Grass	1.6	No	Unspecified	
14	3102 - Grass	1.0	No	Unspecified	
20	3102 - Grass	7.7	No	Unspecified	
21	3102 - Grass	2.0	No	Unspecified	
27	3102 - Grass	1.7	No	Unspecified	
29	3102 - Grass	1.4	No	Unspecified	
34	3102 - Grass	7.2	No	Unspecified	
36	3102 - Grass	1.0	No	Unspecified	
44	6220 - Alder/willow	6.4	No	Unspecified	
45	3102 - Grass	9.8	No	Unspecified	
52	6220 - Alder/willow	9.7	No	Unspecified	
53	3102 - Grass	1.0	No	Unspecified	
59	3102 - Grass	1.4	No	Unspecified	



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

Stand	SCA Type	SCA Name	Acres	Comments
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8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

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