



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54005

Entry Year 2018

Acreage: 1,934

County Montmorency

Management Area: Avery Hills

Revision Date: 2016-06-09

Stand Examiner: Darrick Coy

Legal Description:

T29N R02E Sec 2, 11, & 14

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. Harvests prescribed will help balance the age classes of aspen and oak cover types.

Soil and topography:

Soils are primarily graycalm sands (30%), millersburg-klacking-graycalm complex (30%), horsehead-graycalm sands (19%) and other (21%). The topography of the compartment is rolling to the north and rolling to steep south of Avery Lake Rd. The compartment is predominately oak, aspen, and jack pine. Forest habitat types are primarily dominated by PArVHa, PArVVb, and unclassified lowland.

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

This compartment is located in an area of contiguous state land. There is a large amount of land use from antrim gas development.

Unique Natural Features:

Rare and Endanger Species Present- Hill's Thistle

Potential Rare and Endangered Species Present- Alleghany or Slow Plum, Secretive Locust, and Spike-Lip Crater

Archeological, Historical, and Cultural Features:

Some sites exist. Contact the state historical preservation office for more information or reporting of new sites.

Special Management Designations or Considerations:

Future harvests should minimize conversion of oak to primarily other deciduous forest cover types as much as possible. Temporary conversions to pine within some oak stands through artificial means should be considered to build advanced oak regeneration over time. Adjacent compartments 12 and 4 contain many pine stands that are fully stocked with advanced oak regeneration. Understory oak burns should also be considered to build advanced oak regeneration. Candidate stands for burnings should have vigor, large crowns, and minimal epicormic branching.

Watershed and Fisheries Considerations:

No aquatic concerns.

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of heavy aspen and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till, glacial outwash sand and gravel, and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no known economic use for the Coldwater Shale. No active sand/gravel pits are located in the area, but potential is good on the uplands. Active gas production from the Antrim Shale is occurring within the compartment and all of the state minerals are currently under lease and held by production in unitized areas.

Vehicle Access:

This compartment is easily accessed from Avery Lake Road. The entire compartment has two tracks and improved pipeline corridors for traversing the area.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

There are many opportunities for hunting, bird and wildlife viewing in the area. The compartment is close to two State Forest Campgrounds on Avery Lake and has a designated snowmobile (#882) and equestrian trails going through it.

Fire Protection:

Fire response to the compartment will be covered by the Atlanta DNR office as well as the Tri-Township Fire Department. Most of the compartment is easily accessible by county roads and 2-track roads.

Additional Compartment Information:

The following reports from the Inventory are attached:

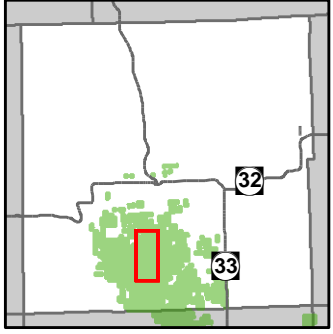
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

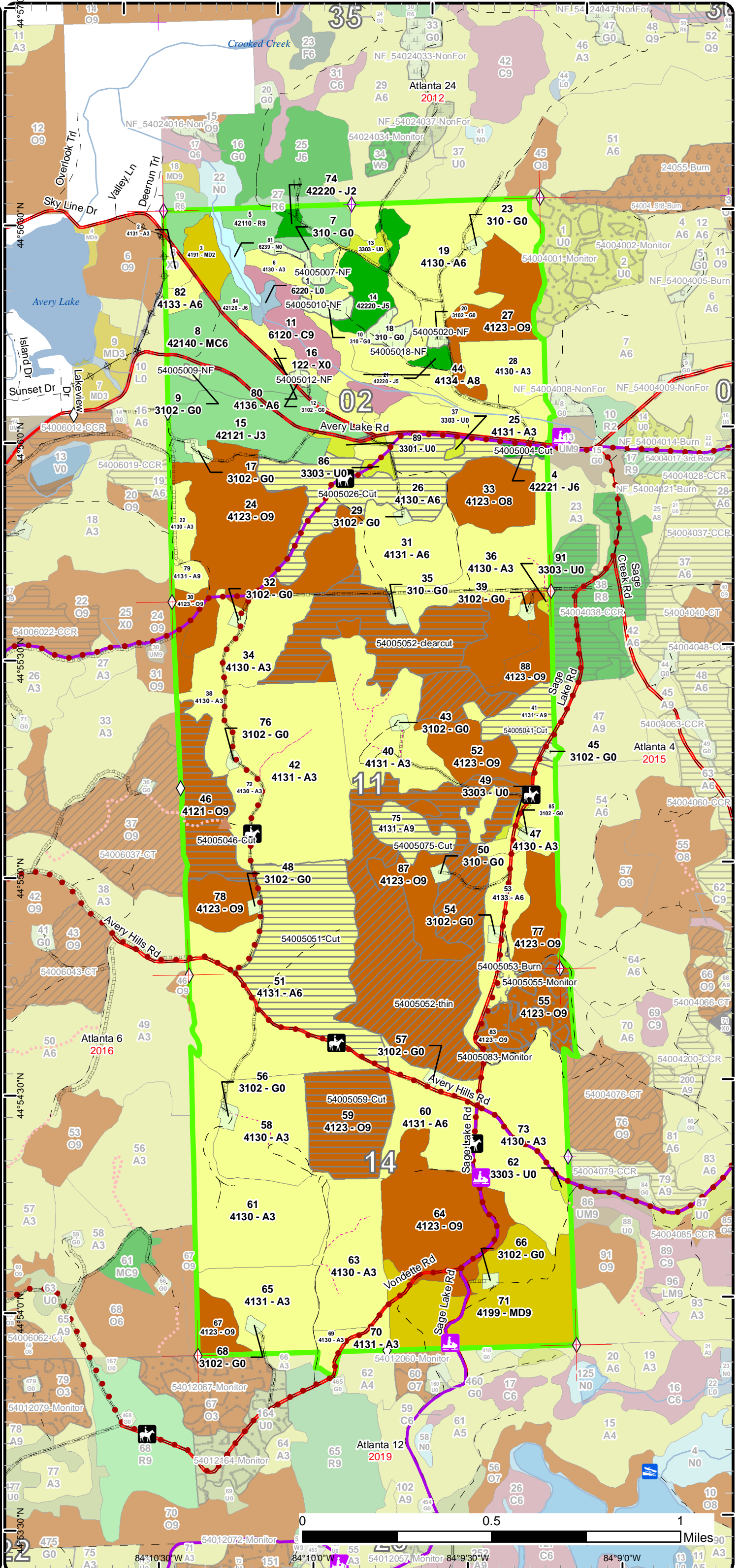
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 5
 T29N, R02E, Sec: 02, 11, 14
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Avery Hills
 YOE: 2018
 Acres: 1,934 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/6/2016
 Map Phase: Post Review

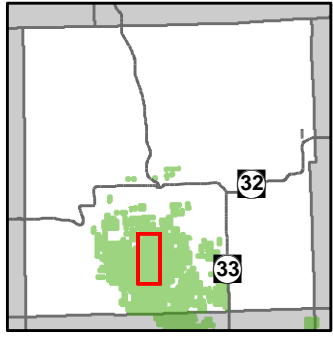


- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Berms
- Boating Access Site
- Horse Trails
- Snowmobile Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- Opening Maintenance
- Regeneration Survey
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

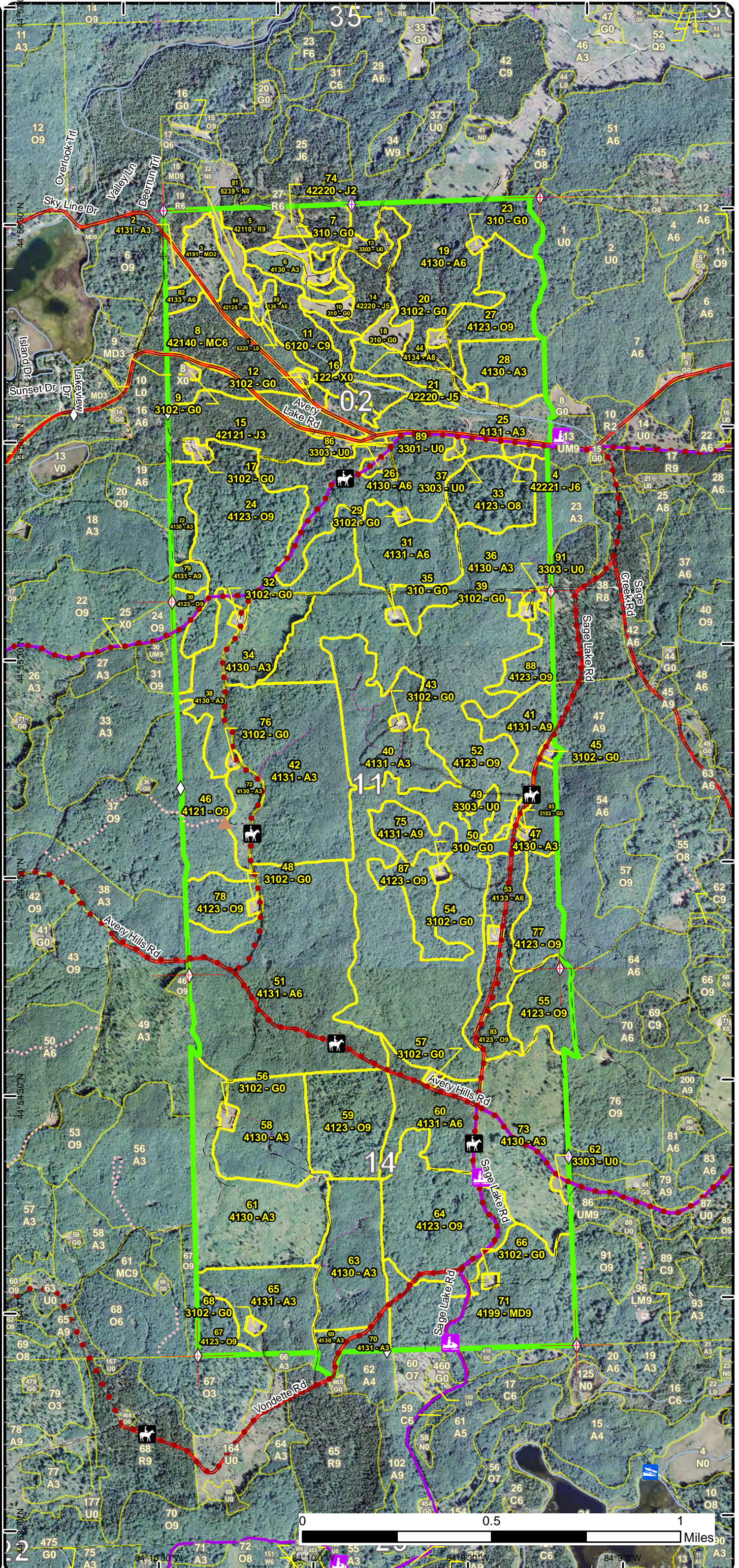


Stand Boundary Map

Compartment: 5
 T29N, R02E, Sec: 02, 11, 14
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Avery Hills
 YOE: 2018
 Acres: 1,934 GIS Calculated
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 Map Phase: Post Review

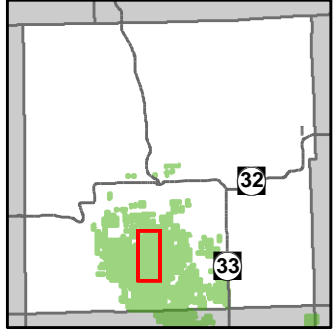


- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Berms
- Boating Access Site
- Horse Trails
- Snowmobile Trails
- Designated Equestrian Trails
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- Pipeline
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- Stand Boundaries
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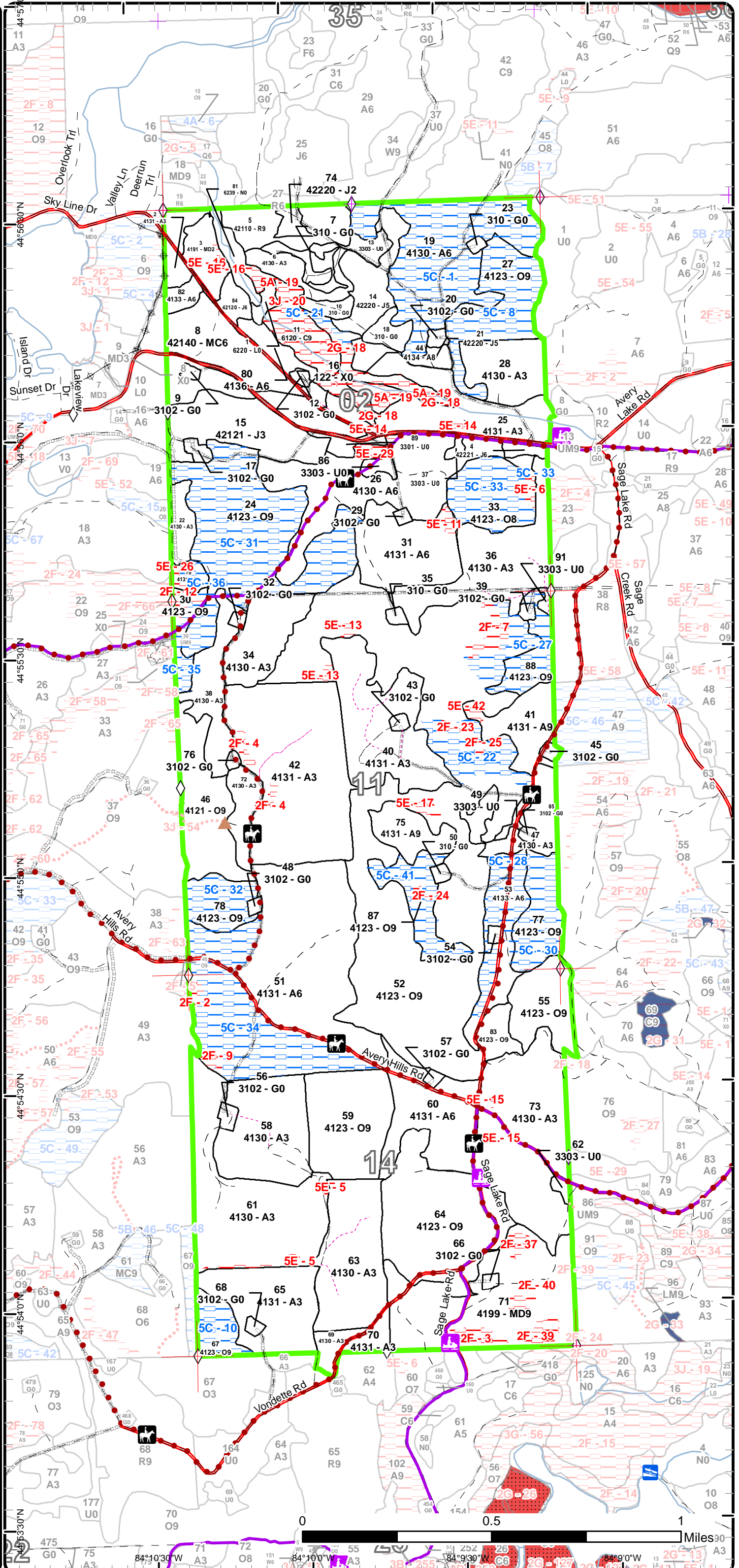


Special Conservation Areas & Site Conditions Map

Compartment: 5
 T29N, R02E, Sec: 02, 11, 14
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Avery Hills
 YOE: 2018
 Acres: 1,934 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/6/2016
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ▲ Berms
- Boating Access Site
- Horse Trails
- Snowmobile Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- - - Closed Roads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Spring or Seep



475 G0 75 A3 84°10'30"W 71 A3 72 O8 84°10'00"W 55 W6 84°9'30"W 26 C6 84°9'00"W 13 G0 11 A3

Miles 0 0.5 1

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	230	5	229	167	0	321	0	0	15	37	0	0	0	0	0	0	0	1003
Cedar	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22
Herbaceous Openland	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Jack Pine	0	3	0	0	47	3	20	0	0	0	0	0	0	0	0	0	0	0	73
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	11	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	82
Oak	0	0	0	0	0	0	0	0	0	32	589	0	0	0	0	0	0	0	620
Planted Mixed Pines	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Red Pine	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	26
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	72	244	5	229	250	3	341	26	72	47	626	22	0	0	0	0	0	0	1934



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 5

Total Compartment Acres: 1,934

Commercial Harvest - 434
 Harvests with Site Condition - 0
 Next Step Harvest - 29
 Habitat Cut - 29

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	166	0	0	0	0	0	0	0	0	166
Jack Pine	2	0	0	0	0	0	0	0	0	2
Oak	148	0	0	0	0	118	0	0	0	266
Total	316	0	0	0	0	118	0	0	0	434

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	434	0	0	0	4	0	29	0	13	481
Next Step	29	75	154	0	181	193	383	0	0	1015
Total	463	75	154	0	185	193	412	0	13	1496



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	54005004-Cut	2.3	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	53	51-80	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> -clearcut											
<u>Specs:</u> -no retention to maximize regeneration of stand -protect snowmobile/equestrian trail in timber sale specifications											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventry)											
<u>Treatments:</u>											
<u>Acceptable</u> -any combination of jp, oak, rm, aspen, and other pine of medium to high stocking											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
7	54005007-NF	3.7	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> .											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
9	54005009-NF	1.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> .											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
10	54005010-NF	3.7	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> .											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
12	54005012-NF	1.2	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable .
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

18	54005018-NF	5.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable .
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

20	54005020-NF	1.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable .
Regen:

Other if access is possible
Comment:

Proposed Start Date: 10/01/2017

26	54005026-Cut	56.0	4130 - Aspen	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription -clearcut
Specs: -leave scattered mast oak and pine of low timber value where present and not to exceed residual BA of 10 (will need to mark to leave)
-leave 3-10% in area retention along snowmobile/equestrian trail (already excluded- see site conditions)
-protect snowmobile/equestrian trail in timber sale specifications

Next Step Monitoring, Natural Regen (Re-Inventry)
Treatments:

Acceptable -oak, aspen, rm, and pine of medium to high stocking
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	54005041-Cut	17.3	4131 - Aspen, Oak	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -area retention already excluded (see site conditions)
 -additional side slope area retention may be used if slopes over 40% are found during sale prep
 -no tree-length skidding with crowns attached
 -protect equestrian trail in timber sale specifications
 -use gas pad for landing

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable -aspen, rm, oak, and pine of medium to high stockingRegen:OtherComment:

Proposed Start Date: 10/01/2017

46	54005046-Cut	32.0	4121 - Oak, Aspen	Sawtimber Well	93	111-140	Harvest	Clearcut with Retention	4140 - Other Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave 3-10% in area retention for steeper terrain
 -additional side slope area retention may be used if slopes over 40% are found during sale prep
 -no tree-length skidding with crowns attached
 -protect steep slopes- as needed, require putting slash/tops and/or hay in valleys and along side slopes used for forwarding at a spacing specified by the timber sale administrator upon existing each payment unit
 -protect equestrian trail in timber sale specifications
 -use gas pad for landing

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable -any combination of aspen, rm, oak, and pine of medium to high stockingRegen:OtherComment:

Proposed Start Date: 10/01/2017

51	54005051-Cut	78.7	4131 - Aspen, Oak	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave rp and wp, if present
 -leave 3-10% in area retention
 -protect equestrian trail in timber sale specifications

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable -aspen, rm, oak, and pine of medium to high stockingRegen:OtherComment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
52	54005052-clearcut	78.5	4123 - Red Oak	Sawtimber Well	93	111-140	Harvest	Clearcut with Retention	4140 - Other Upland Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription -clearcut-leave all rp and wp, if any is found-leave 3-10% in area retention for steeper terrain (some already excluded- see site conditions)-
Specs: additional side slope area retention may be used if slopes over 40% are found during sale prep-no tree-length skidding with crowns attached- protect steep slopes- as needed, require putting slash/tops and/or hay in valleys and along side slopes used for forwarding at a spacing specified by the timber sale administrator upon existing each payment unit-use gas pad for landing-per UM recommendation- 1-2 years after harvest completion, plant individual stems to pockets of advanced wp regeneration scattered within newly regenerating stand in low stocked areas

Next Step Planting, Interplant; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable -any combination of aspen, rm, oak, and pine of medium to high stocking

Regen:OtherComment:

Proposed Start Date: 10/01/2017

52	54005052-thin	117.9	4123 - Red Oak	Sawtimber Well	93	111-140	Harvest	Crown Thinning	4123 - Red Oak	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription -thin to 80 residual BA
Specs: -concentrate on removing red maple and oak with epicormic branching/weak crowns
 -post-harvest- reduce red maple and witch hazel understory competition as funding and work resources allow to prepare for future regeneration harvests

Next Step Burn, Understory; Pesticide, Other - Specify

Treatments:AcceptableRegen:OtherComment:

Proposed Start Date: 10/01/2017

53	54005053-Burn	4.4	4133 - Aspen, Mixed Pine	Poetimber Well	56	Unspecified	Burn	Understory	4130 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription -area was included with previously completed understory burn
Specs: -understory burn this area with oak burns to the east and southeast

Next Step Burn, Understory

Treatments:AcceptableRegen:OtherComment:

Proposed Start Date: 10/01/2017

55	54005055-Monitor	21.3	4123 - Red Oak	Sawtimber Well	96	111-140	Monitoring	Natural Regen (Intermediate)	4123 - Red Oak	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription -survey regeneration per work instructions before initiating 2nd understory burn using fixed radius plots
Specs:

Next Step Harvest, Clearcut; Burn, Understory; Monitoring, Natural Regen (Intermediate); Burn, Understory

Treatments:

Acceptable -this survey is to compare seedlings regenerated per acre after the first burn

Regen: -particularly quantifying any non-oak deciduous competition

OtherComment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
59	54005059-Cut	37.6	4123 - Red Oak	Sawtimber Well	98	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave 5-10% in area retention scattered along treatment perimeter/edge
 -initiate conversion to artificial RP post-harvest with long-term objective for an oak cover type
 -per WLD recommendation- plant individual stems to pockets of advanced oak regeneration scattered within rp plantation once spraying has been completed
 -protect equestrian trail in timber sale specifications

Next Step Treatments: SitePrep, Roller Chopping; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Regen: -Fully stocked artificial rp with minor deciduous associates

Long-term Objective:

-Oak, Pine

-Convert stand back to an oak stand once advanced regeneration is established using frequent thinnings to create additional oak seedlings and maintain sapling vigor once removal cut is made

Other Comment: -species thinned in 2000 removing all aspen and rm

Proposed Start Date: 10/01/2017

75	54005075-Cut	13.6	4131 - Aspen, Oak	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -3-5 mast oak in clumps every 3 acres where present
 -leave 3-10% in area retention for steeper terrain
 -no tree-length skidding with crowns attached

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: -aspen, rm, pine, and oak of medium to high stocking

OtherComment:

Proposed Start Date: 10/01/2017

83	54005083-Monitor	8.0	4123 - Red Oak	Sawtimber Well	93	81-110	Monitoring	Natural Regen (Intermediate)	4122 - Oak, Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -survey regeneration per work instructions before initiating 2nd understory burn using fixed radius plotsSpecs:

Next Step Treatments: Harvest, Shelterwood with Retention; Burn, Understory; Monitoring, Natural Regen (Re-Inventory); Burn, Understory

Acceptable Regen: -this survey is to compare seedlings regenerated per acre after the first burn

Regen: -particularly quantifying any non-oak deciduous competition

OtherComment:

Proposed Start Date: 10/01/2016

Total Treatment Acreage Proposed: 484.2

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 5
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	2F	2G	3J	5A	5E
1003	828	145	31	Aspen	145	6	7	5	1	12
22	0	0	22	Cedar			0	6	16	
37	37	0	0	Herbaceous Openland	0					
73	73	0	0	Jack Pine						
16	16	0	0	Low-Density Trees						
3	3	0	0	Lowland Shrub						
7	7	0	0	Marsh						
83	68	0	14	Mixed Upland Deciduous		13				1
620	358	247	16	Oak	247	10				6
36	36	0	0	Planted Mixed Pines						
26	26	0	0	Red Pine						
9	9	0	0	Urban						
1,934	1,459	392	83	Total Forested Acres	392	29	7	10	17	19
	75%	20%	4%	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
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look for any areas that are operable,							

Report 4 – Site Conditions

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Compartment: 5
Year of Entry: 2018

4	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 61							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 33							
7	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 31							
12	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 52 (in part)							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 25							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 73 (previously 60 & 64)							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand 3 area retention							
17	Unavailable	5E: Long-Term Retention	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 52							

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18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5A: Not able to obtain desirable regeneration	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: -intermittent stream buffer							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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24	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 22 to the adjacent north							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 26							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 5
Year of Entry: 2018

31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 5
Year of Entry: 2018

37	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look for any areas that are operable,							
39	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look for any areas that are operable,							
40	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look for any areas that are operable,							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 41							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



Report 6 – 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4131 - Aspen, Oak	Sapling Well	3.8	5	1-50	-past treatment- clearcut -completion date- 8-20-09 (cut winter/spring '09) -sale number- 54-014-08-01 -leave trees- rp, wp, or white oak -volume (cgs)- mhwd- 6, aspen- 58, jp- 15
3	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	10.5	5	1-50	-past treatment- clearcut -completion date- 1-5-10 (cut spring '09) -sale number- 54-037-08-01 -leave trees- all oak -volume (cgs)- rp-487, jp- 91, aspen- 25 -mixed stand -jp strip left to E bordering creek
4	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	2.3	53	51-80	-aspen showing fairly significant signs of rot already
5	42110 - Planted Red Pine	Sawtimber Well	26.0	60	111-140	-planting record- furrow planting completed 9-29-59 -past treatment- thinning -completion date- 1-5-10 (no tree-length skid, cut spring '09) -sale number- 54-037-08-01 -leave trees- 2/3 rows, and all oak -volume (cgs)- rp-487, jp- 205, aspen- 32; rolling terrain
6	4130 - Aspen	Sapling Well	11.2	6	Immature	-past treatment- clearcut -completion date- 8-20-09 (cut winter/spring '09)-sale number- 54-014-08-01-leave trees- rp or oak-volume (cgs)- bf- 7, aspen- 121
8	42140 - Planted Mixed Pine	Poletimber Well	35.5	34	51-80	-planting record- furrow planting of equal mix of rp and jp completed 10/23/80 -planting record- furrow replanting completed of straight rp completed 5/83 -irregular stocking and uneven branching
11	6120 - Lowland Cedar	Sawtimber Well	21.9	101	171-200	-intermittent stream bisects stand; fairly dense and healthy cedar; open sub-canopy where cedar dominates; fir is patchy in understory
14	42220 - Natural Jack Pine	Poletimber Medium	17.8	51	51-80	-variable stocking, open areas; mostly balsam fir south of E-W two-track
15	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	42.2	34	1-50	-planting record- furrow planting of equal mix of rp and jp completed 10/23/80-planting record- furrow replanting completed of straight jp completed 5/83
19	4130 - Aspen	Poletimber Well	64.3	51	51-80	Some Low spots with white pine around them. Wildlife (D. Smith) wanted to hold 20 years to spread out cutting in NE corner of the compartment; legacy wp to NW; 3-4 stick aspen
21	42220 - Natural Jack Pine	Poletimber Medium	3.0	49	51-80	
22	4130 - Aspen	Sapling Well	7.8	6	Immature	-left marked oak and all wp



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4123 - Red Oak	Sawtimber Well	81.8	91	51-80	-stand was species thinned around 1988 and regeneration is small diameters; previously cut species are still mostly in subcanopy; primarily even-aged stand with subcanopy red maple sapling competition issues; oak have larger crowns due to past thinnings and are healthier in general -south end has more wp saps in understory -east leg of stand has primarily high red maple saps with no adv wp -past treatment- species thinning (cut all aspen, maple, birch, and jp) -completion date- 10-13-88 (8-31-88 to 10-3-88) -sale number- 54-047-88-01 -leave trees- all oak, wp, and rp -volume (cds)- mhwd- 201 cds, aspen- 230, rm- 6, pb- 17, & jp- 13 -nothing was cut SE side of trail within this stand
25	4131 - Aspen, Oak	Sapling Well	41.7	6	1-50	-higher sapling oak to E 3rd of stand -past treatment- clearcut -completion date- 8-20-09 (winter/cut spring '09) -sale number- 54-014-08-01 -leave trees- rp, wp, or white oak -volume (cds)- aspen- 420, rm- 2, oak- 2, bf- 24, jp- 68
26	4130 - Aspen	Poletimber Well	58.7	53	51-80	-aspen showing fairly significant signs of rot already
27	4123 - Red Oak	Sawtimber Well	32.0	89	81-110	Majority of stand was species thinned in 1960's. Wildlife (D. Smith) wanted to hold 10 yrs to spread out cutting in NE corner of compartment;
28	4130 - Aspen	Sapling Well	21.1	27	1-50	-Erosion Problem on two track up steep side hill-past treatment-clearcut completion date- 8-7-89 (10-7-88 to 8-7-89)-sale number- 54-045-88-01-leave trees- none-volume (cds)- oak- 180 cds, aspen- 332 bta, rm- 6, & pine- 2
30	4123 - Red Oak	Sawtimber Well	8.6	93	111-140	Bad ORV damage on South face of slope
31	4131 - Aspen, Oak	Poletimber Well	32.7	38	51-80	scattered mature oak and rp with some legacy trees-past treatment- clearcut -completion date- 11/16/78-sale number- 54-060-78A-leave trees- none-volume (cds)- oak- 247 cds, aspen- 336, mhwd- 53
33	4123 - Red Oak	Sawtimber Medium	24.5	92	1-50	-variable heights in subcanopy due to partial to full suppression within overstory -stand was species thinned in 2000 (7-22-99 - 4-7-00) -54-010-98-01 -300 cds aspen and 70 cds rm -40 sqft oak left with 1 sqft pine
34	4130 - Aspen	Sapling Well	22.2	6	Immature	-past treatment- clearcut -completion date- 12-07-09 (cut late summer/fall/winter '09) -sale number- 54-024-08-01 -leave trees- rp, wp, white oak, or green painted trees -volume (cds)- ro- 163, aspen- 620, rm- 57



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	4130 - Aspen	Sapling Well	41.0	26	51-80	-left some trees to leave along trail-past treatment- clearcut - completion date- 5-1-90 (7-8-88 to 5-1-90)-sale number- 54-036- 88-01-leave trees- none-volume (cgs)- oak- 306 cds, aspen- 698, rm- 94
38	4130 - Aspen	Sapling Well	20.3	27	Unspecified	-past treatment- clearcut -completion date- 8-7-89 (11-4-88 to 4-3-89) -sale number- 54-048-88-01 -leave trees- none -volume (cgs)- oak- 377 cds, bta- 343, mhwd- 29, woak- 26, pbirch- 20
40	4131 - Aspen, Oak	Sapling Well	48.3	25	Unspecified	-some steep slopes-past treatment- clearcut in -completion date- 12-04-91 (9-11-91 - 12-04-91)-sale number- 54-017-91- 01-leave trees- all white oak-volume- 938 cds aspen, 639 cds red oak, 204 cds rm
41	4131 - Aspen, Oak	Sawtimber Well	18.7	91	81-110	-new stand added that was previously a part of a large oak stand
42	4131 - Aspen, Oak	Sapling Well	83.4	35	51-80	-past treatment- clearcut -completion date- 8-30-81 -sale number- 54-004-79A -leave trees- oak and wp -volume (cgs)- oak- 602 cds, aspen- 858, rm- 156, & birch- 12; more scattered oak logs to NW; -appears that they cut and left oak trees, oak in L/P coverytype percentages accounts for both oak that were left and cut due to no drastic size class change from sap/L
44	4134 - Aspen, Spruce/Fir	Sawtimber Medium	15.2	83	51-80	-intermittent stream bisects stand; fairly dense and healthy cedar; open sub-canopy where cedar dominates; fir is patchy in understory -area was left for stream and cedar buffering -highly variable stand composition
46	4121 - Oak, Aspen	Sawtimber Well	32.0	93	111-140	-PARVHa-VVb-low vigor, old, high density, epicormic branching, small crowns-BA is on upper end, likely 130-140-no records or evidence within stand of past thinnings-stand is similar composition to stand to adjacent east before it was cut, will produce similar results-60-80ft tall trees
47	4130 - Aspen	Sapling Well	18.1	27	Unspecified	New gas well was put in after DOQQ, site will need to be adjusted. Scattered mature Oak and Red Pine.-some steep slopes-past treatment- clearcut in -completion date- 12-04-91 (9-11-91 - 12-04-91)-sale number- 54-017-91-01-leave trees- all white oak-volume- 938 cds aspen, 639 cds red oak, 204 cds rm
51	4131 - Aspen, Oak	Poletimber Well	138.2	51	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	4123 - Red Oak	Sawtimber Well	238.7	93	111-140	-some isolated areas of steep terrain exist within this stand but it is mostly harvestable -slopes are significantly longer within this stand to NE and create erosion concerns -oak are showing signs of decline with crown dieback and epicormic branching on poorer site quality areas -the S portion of this stand is higher quality oak (VVb with significant witch hazel in subcanopy) -areas to the NE and E are of lower quality VHa and the density is lower, closer to 110 BA with heights of 50-70 ft
53	4133 - Aspen, Mixed Pine	Poletimber Well	25.0	56	Unspecified	-long narrow species rich stand with a fair amount of snags -one of the few areas in this compartment portion in the south half that has a fair amount of pine (primarily in north half of stand) -a few acres to the south contain older aspen -majority of aspen in this stand are healthy
55	4123 - Red Oak	Sawtimber Well	21.4	96	111-140	No oak or pine regen present. Possible shelterwood/seed tree and hand plant white pine in understory. -stand was burned in Spring 2015 -most rm stems have resprouted and will need to be burned again
58	4130 - Aspen	Sapling Well	39.1	26	1-50	Some steep slopes -past treatment- clearcut -completion date- 9-21-90 (5-11-88 to 9-21-90) -sale number- 54-007-88-01 -leave trees- none -volume (cds)- oak- 919 cds, aspen- 1,727, rm- 119, pb- 10, & pine- 3
59	4123 - Red Oak	Sawtimber Well	37.8	98	51-80	Stand was species thinned in 2000. Stand was cut during 1-18-2000 to 4-7-2000, pretty much winter.... (715 cds aspen & 100 cds rm). Old landing in SW corner.
60	4131 - Aspen, Oak	Poletimber Well	34.7	55	Unspecified	-still not much rot-oak were not cut out from past harvest and are now primarily mast trees
61	4130 - Aspen	Sapling Well	65.5	6	Immature	-past treatment- clearcut -completion date- 12-07-09 (cut late summer/fall/winter '09) -sale number- 54-024-08-01 -leave trees- rp, wp, white oak, or green painted trees -volume (cds)- ro- 862, aspen- 1,012, rm- 78
63	4130 - Aspen	Sapling Well	41.2	27	1-50	-past treatment- clearcut -completion date- 9-21-90 (5-11-88 to 9-21-90)-sale number- 54-007-88-01-leave trees- none- volume (cds)- oak- 919 cds, aspen- 1,727, rm- 119, pb- 10, & pine- 3
64	4123 - Red Oak	Sawtimber Well	60.5	93	81-110	-species thinned around 1963, small diameters on aspen and red maple -adv oak regeneration concerns



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	4131 - Aspen, Oak	Sapling Well	34.5	36	1-50	-past treatment- clearcut -completion date- 10/24/79-sale number- 54-080-78-leave trees- none-volume (cgs)- oak- 106 cds, aspen- 308, jp- 32
67	4123 - Red Oak	Sawtimber Well	10.7	94	81-110	
69	4130 - Aspen	Sapling Well	5.4	16	Unspecified	
70	4131 - Aspen, Oak	Sapling Well	5.1	36	1-50	
71	4199 - Other Mixed Upland Deciduous	Sawtimber Well	72.2	77	81-110	-snowmobile trail through this stand -bored two oak trees in center of stand and were both around 77, majority of compartment oak is low to mid 90s -the majority of this stand can be harvested, only found a few spots over 35% slope -ne edge, <5 acres of stand, had rm and aspen cut out to the adjacent comp to east, 5 yrs or younger -bulk of aspen are younger, some aspen is older in the southern edge where steeper terrain exists- past harvest must have left oak that were not quite 5 inches to explain for the age difference
72	4130 - Aspen	Sapling Well	10.6	6	Immature	-past treatment- clearcut -completion date- 12-07-09 (cut late summer/fall/winter '09) -sale number- 54-024-08-01 -leave trees- rp, wp, white oak, or green painted trees -volume (cgs)- ro- 235, aspen- 54, rm- 40
73	4130 - Aspen	Sapling Well	67.0	5	Immature	Aspen/Oak Clearcut in spring 2011. Expect good aspen/oak regen. 54-031-08-01 Savery Aspen Nomads. -past treatment- clearcut -completion date- 2-28-11 (late fall- winter) -sale number- 54-031-08-01 -leave trees- all rp, wp, and trees marked with green paint -volume (cgs)- oak- 616, aspen- 619, rm- 121
74	42220 - Natural Jack Pine	Sapling Medium	3.3	5	Immature	-was cut in 2009 with adjacent RP thinning
75	4131 - Aspen, Oak	Sawtimber Well	13.6	92	81-110	-scattered mast oak within this stand
77	4123 - Red Oak	Sawtimber Well	19.9	94	81-110	-it appears that aspen and rm were cut out 55 years ago -stand is on better site than most other oak stands and has adequate crown form and spacing due to past thinning
78	4123 - Red Oak	Sawtimber Well	14.8	93	81-110	-Stand was species thinned around 1965 with aspen to east -all aspen and red maple were cut -oak have larger crowns than oak to north and are healthier in general due to past thinning
79	4131 - Aspen, Oak	Sawtimber Well	4.3	93	111-140	-ORV damage on South face of slope -dense mixed stand of aspen and oak

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Report 7 – Forested Stands

Compartment: 5
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	4136 - Aspen, Mixed Conifer	Poletimber Well	6.9	35	51-80	
82	4133 - Aspen, Mixed Pine	Poletimber Well	3.9	36	51-80	
83	4123 - Red Oak	Sawtimber Well	7.3	93	81-110	-oak crowns are larger and not overly stressed overstocking
84	42120 - Planted Jack Pine	Poletimber Well	4.8	34	51-80	
87	4123 - Red Oak	Sawtimber Well	17.9	93	81-110	-slightly less BA and oak have larger crowns and more vigor
88	4123 - Red Oak	Sawtimber Well	12.5	93	81-110	-poorer quality red oak -epicormic branching found on many oak trees



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6220 - Alder/willow	2.8	No	-standing dead trees within stand
7	310 - Herbaceous Openland	3.7	Yes	
9	3102 - Grass	1.0	No	-possible location for 12/31/65 mineral permit
10	310 - Herbaceous Openland	3.7	Yes	
12	3102 - Grass	1.2	No	
13	3303 - Mixed Low Density Trees	4.0	No	-scattered jp and black cherry
16	122 - Road/Parking Lot	8.7	No	
17	3102 - Grass	2.1	No	-possible location for 12/31/65 mineral permit
18	310 - Herbaceous Openland	5.5	Yes	
20	3102 - Grass	1.5	No	-well pad
23	310 - Herbaceous Openland	1.0	No	-well pad
29	3102 - Grass	1.0	No	
32	3102 - Grass	1.0	No	
35	310 - Herbaceous Openland	1.3	No	
37	3303 - Mixed Low Density Trees	1.2	No	pocket of old u-type along Avery Lake Rd.
39	3102 - Grass	1.1	No	
43	3102 - Grass	1.2	No	
45	3102 - Grass	1.3	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
48	3102 - Grass	1.0	No	
49	3303 - Mixed Low Density Trees	2.1	No	Scattered mature Oak and Red Pine
50	310 - Herbaceous Openland	1.3	No	
54	3102 - Grass	1.1	No	
56	3102 - Grass	1.9	No	
57	3102 - Grass	1.1	No	
62	3303 - Mixed Low Density Trees	1.6	No	
66	3102 - Grass	1.0	No	
68	3102 - Grass	1.1	No	
76	3102 - Grass	0.9	No	
81	6239 - Mixed Emergent Wetland	6.6	No	-cool season grasses, could be wet meadow to marshy -scattered clumps of alder
85	3102 - Grass	1.0	No	
86	3303 - Mixed Low Density Trees	2.5	No	
89	3301 - Low Density Deciduous Trees	3.2	No	pocket of old u-type along Avery Lake Rd.
91	3303 - Mixed Low Density Trees	1.2	No	