



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54050

Entry Year 2021

Acreage: 1,454

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 2019-04-01

Stand Examiner: Richard Barber

Legal Description:

T31N, R3E, Sections 3, 10 and 15.

Identified Planning Goals:

Age class balancing.

Soil and topography:

Generally dry level uplands with the Brush Creek drainage bisecting the compartment. Some small swamp pockets.

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

A few hunting camps adjacent to state lands, eighty acres and less. The NW/2 of section 10 is the Twin Dams Subdivision, some of these are year round residences.

Unique Natural Features:

None reported.

Archeological, Historical, and Cultural Features:

None reported.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The Brush Creek flows east through section 10, joining the Thunder Bay River in Hillman.

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 elk and black bear. Habitat components of aspen, oak, and mixed pine provide food and cover for multiple species at a variety of age classes. We are working to maintain a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include elk, white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel operation is located three miles to the southeast. There appears to be some sand & gravel potential within the compartment, but the water table is relatively shallow here (less than 30 feet). The compartment is located on the northern edge of the current extent of Antrim Shale development. State mineral rights in Sec 15 are leased and producing gas from the Antrim. There are no active leases in sections 3 or 10. There is potential for additional Antrim development in this area, but not in the near future, as long as natural gas prices remain low. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

County Road 624, Voyer Lake Road and Brush Creek Truck Trail provide excellent access.

Survey Needs:

Surveys may be needed for timber sale operations.

Recreational Facilities and Opportunities:

ORV trails and Snowmobile trails are both present.

Fire Protection:

Hillman VFD and Atlanta DNR.

Additional Compartment Information:

The following reports from the Inventory are attached:

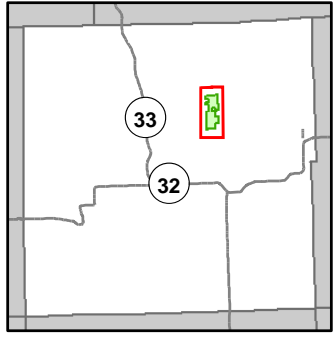
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

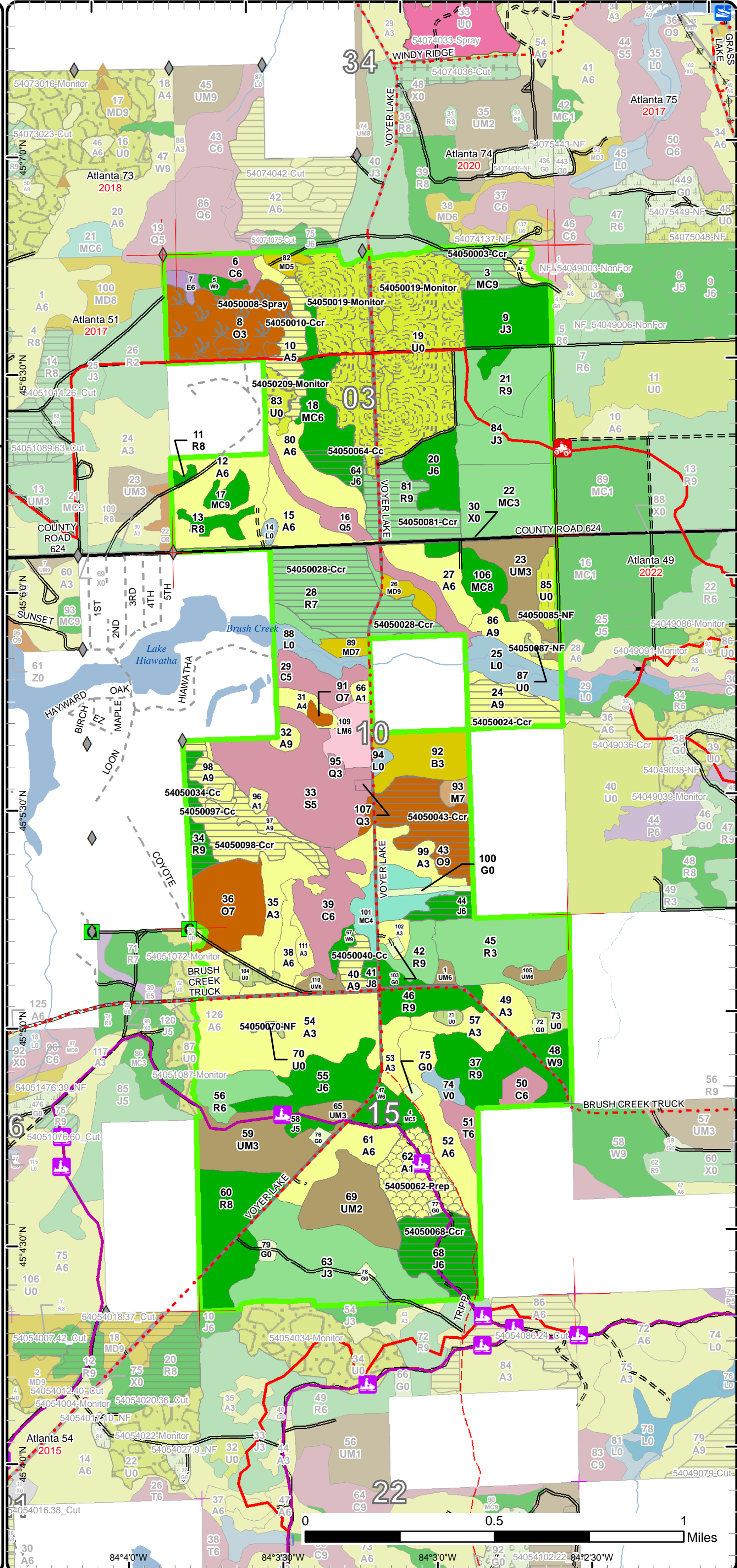
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 50
 T31N, R03E, Sec. 3, 10, 15
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2021
 Acres: 1,454 GIS Calculated
 Examiner: Richard Barber
 Map Revised: 10/10/2019
 Map Phase: Post-Review



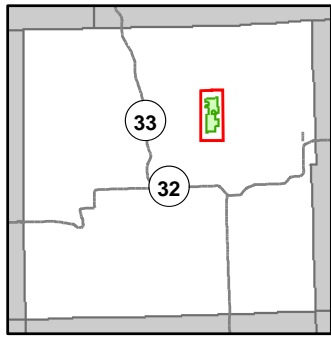
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- ~ Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- G Gate
- 🚤 Boating Access Site
- 🌉 Bridges
- 🌉 Culvert
- 🚰 Fishing Access Site
- Pipeline
- ⚡ Powerline
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Regeneration Survey
- Opening Maintenance
- Monitoring
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes



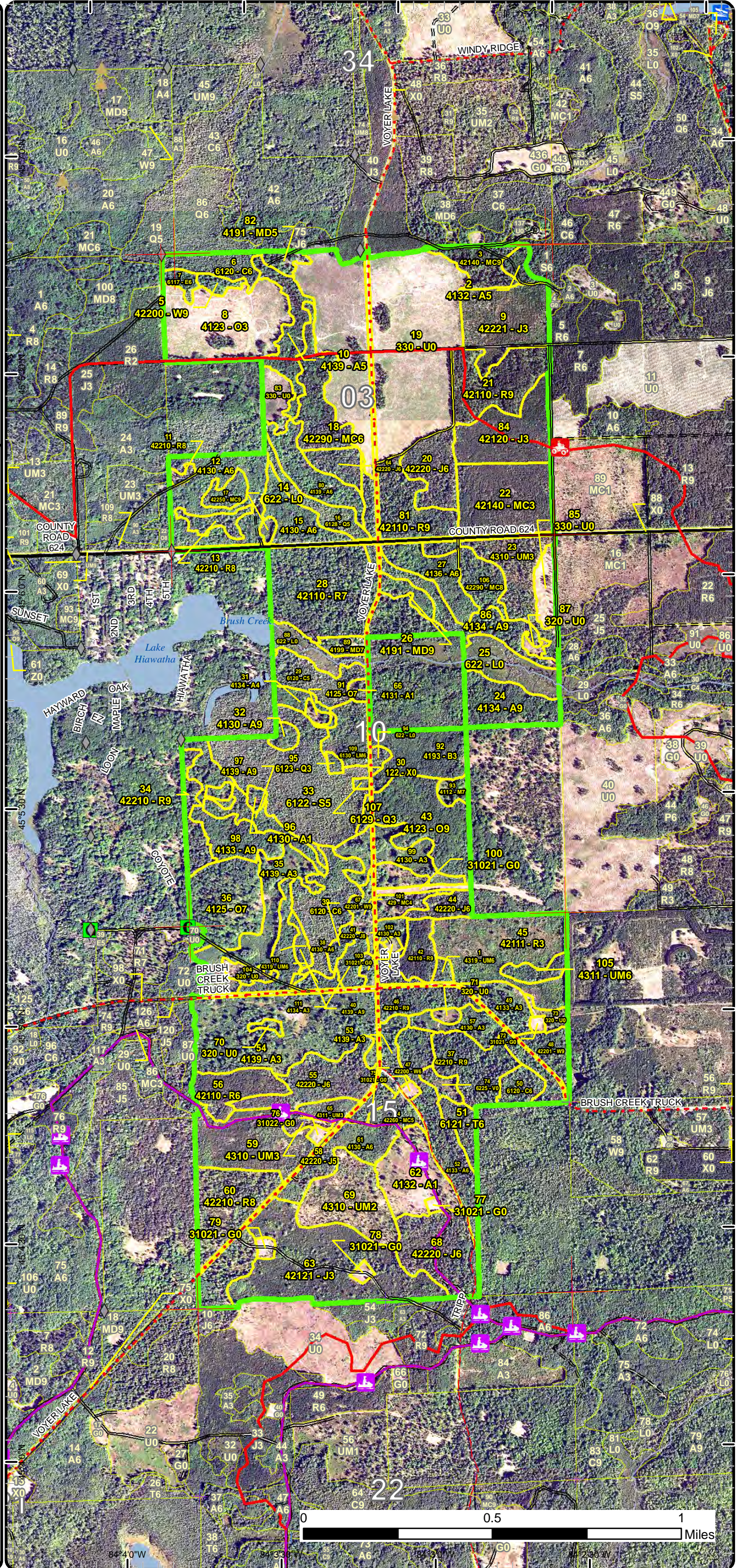
84°40'W 84°30'W 84°20'W 84°10'W 84°0'W

Stand Boundary Map

Compartment: 50
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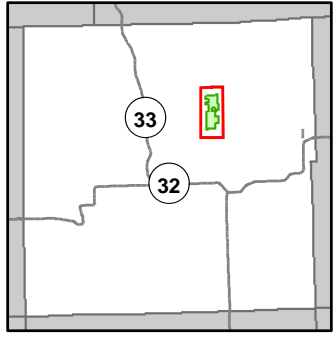


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- Counties
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- Federal / State / County - Paved Road
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- County - Dirt Road (Seasonal)
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- 🚙 ORV Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
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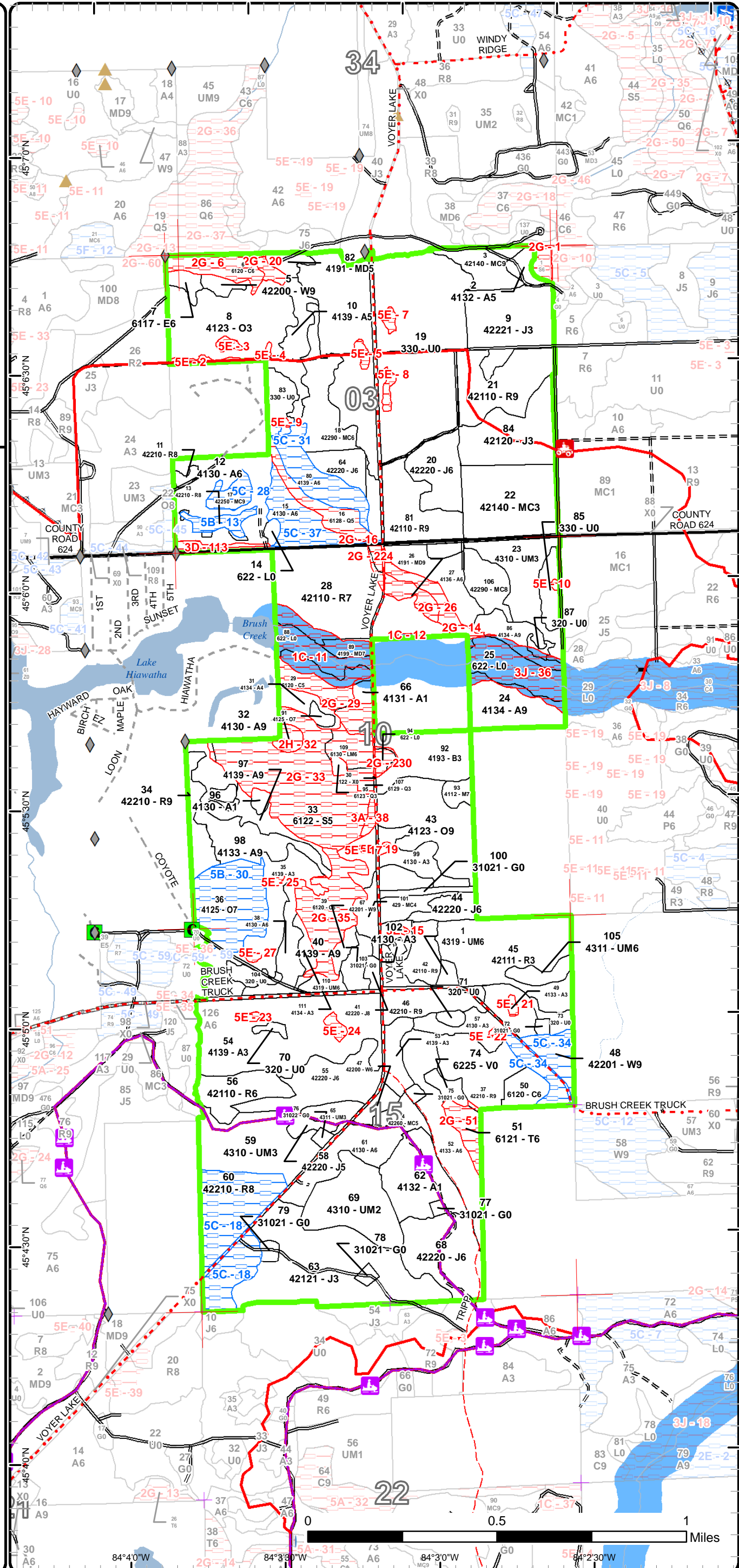


Special Conservation Areas & Site Conditions Map

Compartment: 50
 T31N, R03E, Sec. 3, 10, 15
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- ▲ Berms
- G Gate
- Boating Access Site
- Bridges
- Culvert
- Fishing Access Site
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



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	117	10	0	64	70	70	0	0	0	3	0	0	0	0	0	0	21	355
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	21	19	10	0	0	0	0	0	0	50
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Jack Pine	0	0	26	79	0	18	21	6	0	34	0	0	0	0	0	0	0	0	184
Low-Density Trees	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Lowland Conifers	0	0	0	0	2	0	17	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Deciduous	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	50
Mixed Upland Deciduous	0	0	0	0	0	0	4	0	0	0	9	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	5	0	0	0	0	35	0	0	0	0	0	0	0	0	40
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Oak	0	39	0	0	0	0	0	0	0	29	26	0	0	0	0	0	0	2	96
Paper Birch	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Planted Mixed Pines	0	0	0	30	0	0	0	0	0	0	11	0	0	0	0	0	0	0	41
Red Pine	0	0	38	0	0	0	23	56	0	122	0	0	0	0	0	0	0	0	239
Tamarack	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Upland Conifers	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	25	52	8	2	0	0	0	0	0	0	0	0	0	0	0	0	87
Upland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Urban	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	0	0	0	0	4	0	0	0	6	0	0	0	0	0	0	0	14	24
Total	203	156	99	180	79	97	161	62	0	247	119	16	0	0	0	0	0	40	1458



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 50

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 1,454

Commercial Harvest - 219
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	65	0	0	0	0	0	0	0	0	65
Jack Pine	40	0	0	0	0	0	0	0	0	40
Oak	28	0	0	0	0	0	0	0	0	28
Planted Mixed Pines	11	0	0	0	0	0	0	0	0	11
Red Pine	76	0	0	0	0	0	0	0	0	76
Total	219	0	0	0	0	0	0	0	0	219

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	219	21	0	0	35	117	0	14		406
Next Step	0	159	127	0	0	315	484	0	0	1084
Total	219	180	127	0	0	350	601	0	14	1491



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
2	54050002-Cc	3.7	4132 - Aspen, Jack Pine	Poletimber Medium	50	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention due to small size. Use grouse spec 5.2.4.7.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

3	54050003-Ccr	10.6	42140 - Planted Mixed Pine	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, aspen, maple, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

8	54050008- Spray	35.0	4123 - Red Oak	Sapling Well	3	Immatu re	Pesticide	ERROR	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription herbicide application. FTP shall use current, standard trail specs for safety and infrastructure protection of ORV trail.

Specs:

Next Step Planting, Replant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Acceptable regeneration is a well-stocked stand of red pine.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2018

10	54050010-Ccr	12.0	4139 - Aspen, Mixed Deciduous	Poletimber Medium	56	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention most likely in wet area at north end of stand. Use grouse spec 5.2.4.7.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak, fir, birch, pine.

Regen:

Other

Use current, standard trail specs for safety and infrastructure protection.

Comment:

Proposed Start Date: 10/1 /2020



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
19	54050019- Monitor	110.9	330 - Low-Density Trees	Nonstocked	0		Monitoring	Forest Health	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Monitor for forest health reasons. Red-headed pine sawfly damage was observed during year 1 regen survey.

Specs:

Next Step Pesticide, (Inactive)Aerial; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable .

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2019

24	54050024-Ccr	15.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention most likely in cold water stream buffer at north end of stand. Use grouse spec 5.2.4.7.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak, fir, birch, pine.

Regen:

Other Use current, standard trail specs for safety and infrastructure protection of ORV trail.

Comment:

Proposed Start Date: 10/1 /2020

28	54050028-Ccr	45.0	42110 - Planted Red Pine	Sawtimber Poor	89	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention will land in cold water stream buffer. Tops must be chipped within 3 months of the parent stem's severance from the stump.

Specs:

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

Treatments: Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release

Acceptable planted red pine.

Regen:OtherComment:

Proposed Start Date: 10/1 /2020

34	54050034-Cc	8.6	42210 - Natural Red Pine	Sawtimber Well	83	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Oak, white pine, aspen, maple, fir, birch.

Regen:OtherComment:

Proposed Start Date: 10/1 /2020



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
40	54050040-Cc	5.3	4139 - Aspen, Mixed Deciduous	Sawtimber Well	54	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention due to small size. Use grouse spec 5.2.4.4.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

41	54050041-Cc	1.9	42220 - Natural Jack Pine	Sawtimber Medium	89	51-80	Harvest	Clearcut	412 - Oak Types	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, maple, pine, fir.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

43	54050043-Cc	27.9	4123 - Red Oak	Sawtimber Well	84	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription CCR. Do not cut west of Voyer Lake Road. Retention will include 5 acres of highest quality oak on ridge top.

Specs:

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

Treatments:

Acceptable Oak, aspen, maple, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

44	54050044-Cc	6.0	42220 - Natural Jack Pine	Poletimber Well	64	51-80	Harvest	Clearcut	412 - Oak Types	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, aspen, maple, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



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
62	54050062- Prep	21.4	4132 - Aspen, Jack Pine	Sapling Poor	6	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Roller chop with stand 68 to the south, then combine into single stand and treatment for remainder of treatment sequence.

Specs:

Next Step Pesticide, Aerial - Site Prep

Treatments:

Acceptable planted red pine.

Regen:

Other FTP shall use current, standard trail specs for safety and infrastructure protection of ORV trail.

Comment:

Proposed Start Date: 10/1 /2022

64	54050064-Cc	7.1	42220 - Natural Jack Pine	Poletimber Well	89	51-80	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription CC. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, aspen, maple, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

68	54050068-Cc	24.5	42220 - Natural Jack Pine	Poletimber Well	87	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention will include large pine. Tops must be chipped within 3 months of the parent stem's severance from the stump.

Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);

Treatments: Pesticide, Aerial - Release

Acceptable Planted red pine

Regen:

Other Use current, standard trail specs for safety and infrastructure protection.

Comment:

Proposed Start Date: 10/1 /2020

70	54050070-NF	1.3	320 - Upland Shrub	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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: 10/1 /2020



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
71	54050071-NF	1.7	320 - Upland Shrub	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

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: 10/1 /2020

81	54050081-Ccr	22.0	42110 - Planted Red Pine	Sawtimber Well	86	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Tops must be chipped within 3 months of the parent stem's severance from the stump. Re-plant red pine.
Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr)

Acceptable planted red pine
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

85	54050085-NF	6.4	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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: 10/1 /2020

87	54050087-NF	1.4	320 - Upland Shrub	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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: 10/1 /2020



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
97	54050097-Cc	7.5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	54	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. No retention due to small size. Use grouse spec 5.2.4.4.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

98	54050098-Ccr	21.6	4133 - Aspen, Mixed Pine	Sawtimber Well	59	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention will include large pine. Use grouse spec 5.2.4.4.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak, fir, birch, pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

104	54050104-NF	3.4	320 - Upland Shrub	Nonstocked		Immatu re	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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: 10/1 /2020

83	54050209- Monitor	5.9	330 - Low-Density Trees	Nonstocked	0		Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable Acceptable regeneration is red pine resulting in a medium or well stocked stand.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 406.2**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 50
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available		5B	5C	1C	2G	2H	3A	3D	3J	5E
354	309	28	17	Aspen	0	28		2	3		2	5	5
3	3	0	0	Bog									
50	6	0	43	Cedar			5	38					
11	11	0	0	Herbaceous Openland									
184	184	0	0	Jack Pine									
128	123	0	4	Low-Density Trees									4
19	2	0	17	Lowland Conifers				17				0	
3	3	0	0	Lowland Deciduous									
11	0	0	11	Lowland Mixed Forest				11					
26	1	0	25	Lowland Shrub			9	2				15	
51	0	0	51	Lowland Spruce/Fir				51					
12	4	0	8	Mixed Upland Deciduous			3	5					
40	35	5	0	Natural Mixed Pines		5							
3	3	0	0	Northern Hardwood									
95	65	26	4	Oak	26			0		1			3
19	19	0	0	Paper Birch				0					
41	41	0	0	Planted Mixed Pines									
239	195	39	5	Red Pine	4	35	4	1					
6	0	0	6	Tamarack				6					
15	15	0	0	Upland Conifers									
87	86	0	0	Upland Mixed Forest								0	
11	10	0	1	Upland Shrub								1	
24	24	0	0	Urban			0	0			0		0
23	9	14	0	White Pine		14							
1,454	1,150	111	193	Total Forested Acres	30	81	21	133	3	1	2	20	13
	79%	8%	13%	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	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 50
Year of Entry: 2021

2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 50
Year of Entry: 2021

9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	1C: Other dept or div proc/practices	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Priority Trout Stream 100 m Buffer							
12	Unavailable	1C: Other dept or div proc/practices	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Priority Trout Stream 100 m Buffer							
13	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 50
Year of Entry: 2021

16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Growing the understory.							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 50
Year of Entry: 2021

23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 50
Year of Entry: 2021

30	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment: 50
Year of Entry: 2021

36	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Priority Trout Stream 100 m Buffer							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
113	Unavailable	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
224	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 50

Richard Barber : Examiner

Year of Entry: 2021

230	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



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
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4319 - Mixed Upland Forest	Poletimber Well	1.9	42	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine		50	Pole	5	42	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple		45	Pole	5					
2	4132 - Aspen, Jack Pine	Poletimber Medium	3.7	50	51-80	N/A	Illegal ORV activity through stand. rechecked stand age.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		50	Pole	7	50	Red Maple	High	>20 feet	Sapling
Red Pine		10	Log	12		Jack Pine	Low	Variable	Sapling
Jack Pine		20	Pole	6					
Red Maple		15	Sapling	2					
3	42140 - Planted Mixed Pine	Sawtimber Well	10.6	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		50	Log	12	90	Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine		45	Pole	8	90	Black/Red (Hybrid) Oak	High	10 - 20 feet	Sapling
4	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	5.3	37	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine		40	Pole/Sapling	6	37	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
Red Pine		15	Log	14					
Red Maple		20	Sapling/Pole	4					
Bigtooth Aspen		20	Sapling/Pole	4					
5	42200 - Natural White Pine	Sawtimber Well	2.8	81	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
White Pine		95	Log/XLog	17	81	Red Maple	Full	>20 feet	Tall Shrub
6	6120 - Lowland Cedar	Poletimber Well	9.6	104	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar		70	Pole	8	104	Balsam Fir	Full	10 - 20 feet	Sapling
Balsam Poplar		15	Pole	6		Paper Birch	Low	10 - 20 feet	Sapling
Paper Birch		15	Pole	6					
7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.1	40	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		40	Pole/Sapling	5	40	Balsam Fir	Full	5 - 10 feet	Sapling
Balsam Fir		30	Sapling/Pole	4					
Quaking Aspen		25	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	4123 - Red Oak	Sapling Well	38.8	3	Immature	N/A	FTP C54-1089 Herbicide on 7/17/17 Trenched on 10/25/2017 Planted to red pine at 938 RP per acre on 5/12/2018 Year 1 Survey 10/18/18. 638 red pine TPA. Stand needs to be sprayed and replanted.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Oak		70	Sapling	1	3				
Red Maple		20	Sapling	1	3				
Red Pine		10	Sapling	1	5				
9	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	26.4	16	Immature	N/A	- Cut 2003, sale 022-01. Natural regeneration. Cherry		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		60	Sapling	2	16				
Black/Red (Hybrid) Oak		15	Sapling	2					
Quaking Aspen		25	Sapling	2					
10	4139 - Aspen, Mixed Deciduous	Poletimber Medium	13.9	56	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Pole/Sapling	5	56	Red Maple	Medium	Variable	Sapling
Red Maple		50	Pole/Sapling	5					
11	42210 - Natural Red Pine	Sawtimber Medium	1.4	89	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log	13	89	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
12	4130 - Aspen	Poletimber Well	27.2	36	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		70	Pole	7	36	Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling
Red Pine		15	Log	13					
Black/Red (Hybrid) Oak		15	Log	14					
13	42210 - Natural Red Pine	Sawtimber Medium	5.0	89	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log	16	89	Red Maple	Full	>20 feet	Sapling
						Black/Red (Hybrid) Oak	Medium	>20 feet	Sapling
14	622 - Lowland Shrub	Nonstocked	1.4			No			
15	4130 - Aspen	Poletimber Well	13.4	48	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		89	Pole	6	48	White Pine	Low	10 - 20 feet	Sapling
						Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 17.0 56 51-80 N/A wet. drainage channel.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Pole	7	56	Tag Alder	High	>20 feet	Tall Shrub
Red Maple	25	Sapling	3					
Paper Birch	10	Sapling	3					
Black Spruce	25	Pole	5					
Balsam Fir	10	Sapling	3					

17 42250 - Pine, Oak Sawtimber Well 4.8 85 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	35	Log	11		White Pine	High	>20 feet	Sapling
Red Pine	45	Log	13	85	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
White Pine	15	Log	12					

18 42290 - Natural Mixed Pine Poletimber Well 18.0 89 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine	21	Pole/Log	8		Red Maple	Low	Variable	Sapling
Red Maple	12	Pole/Sapling	5					
Quaking Aspen	10	Pole	8					
Red Pine	45	Log	14	89				
Black/Red (Hybrid) Oak	7	Log	14					

19 330 - Low-Density Trees Nonstocked 114.4 0 4211 - Planted Red Pine

Canopy Species	Density	Avg. Height	Size
Red Pine	High	< 5 feet	Sapling
Red Oak	Medium	< 5 feet	Sapling
White Oak	Low	< 5 feet	Sapling
Red Maple	Medium	< 5 feet	Sapling
Pin Cherry	Low	< 5 feet	Sapling

FTP C54-1089Herbicide on 7/17/17Trenched on 10/25/2017Planted to red pine at 938 RP per acre on 5/12/2018Year 1 Survey 10/22/18. 784 red pine TPA. Competition includes red oak, white oak, red maple, and cherry.

20 42220 - Natural Jack Pine Poletimber Well 14.7 49 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine	82	Pole	7	49	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Pine	10	Log	13		Jack Pine	Low	5 - 10 feet	Sapling

21 42110 - Planted Red Pine Sawtimber Well 23.3 67 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	14	67	Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling

OPIC - FMD: Stand was species thinned in 2006. Cut some Red Pine for Access. 54-013-04-01



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	42140 - Planted Mixed Pine	Sapling Well	30.2	26	Immature	N/A	RED PINE PLANTED MAY 1994--MORE WILD JACK THAN PLANTED RED		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		45	Sapling	3					
Jack Pine		55	Sapling	4	26				
23	4310 - Pine, Oak Mix	Sapling Well	19.3	28	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		10	Log	15					
Black/Red (Hybrid) Oak		25	Sapling	2					
Red Maple		30	Sapling	2					
Jack Pine		35	Sapling	2	28				
24	4134 - Aspen, Spruce/Fir	Sawtimber Well	17.4	57	81-110	N/A	large conifers along stream.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		63	Log	11	57	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Balsam Fir		20	Pole	8		Red Maple	High	>20 feet	Sapling
Red Pine		7	Log	16					
25	622 - Lowland Shrub	Nonstocked	14.5			No	OPIC - FMD: ACTIVE BEAVERS--DEAD TIMBER IN EAST PART		
26	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.8	94	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		50	Log	10	94	Red Maple	High	>20 feet	Sapling
Black/Red (Hybrid) Oak		10	Log	13		Balsam Fir	High	5 - 10 feet	Sapling
Balsam Fir		30	Pole	6		Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
Paper Birch		10	Log	11					
27	4136 - Aspen, Mixed Conifer	Poletimber Well	13.5	36	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		65	Pole	6	36	Balsam Fir	Low	10 - 20 feet	Sapling
White Pine		10	Pole	8		Red Maple	High	>20 feet	Sapling
Balsam Fir		10	Pole	7					
Black/Red (Hybrid) Oak		15	Log	16					
28	42110 - Planted Red Pine	Sawtimber Poor	50.1	89	51-80	N/A	Cut A-RM-J, 2002, sale 15-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log	15	89	Red Maple	High	>20 feet	Sapling
						Balsam Fir	High	10 - 20 feet	Sapling
						White Pine	Medium	5 - 10 feet	Sapling
						Black/Red (Hybrid) Oak	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
29	6120 - Lowland Cedar	Poletimber Medium	12.8	99	1-50	N/A	WET, STREAM PASSING THROUGH STAND USED AS COVER, FIR COMING IN. P/Q																																
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30	122 - Road/Parking Lot	Nonstocked	24.4	0		No																																	
31	4134 - Aspen, Spruce/Fir	Poletimber Poor	4.2	38	1-50	N/A																																	
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33	6122 - Black Spruce	Poletimber Medium	50.5	96	1-50	N/A	much of stand is nearly pure spruce.																																
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35	4139 - Aspen, Mixed Deciduous	Sapling Well	23.4	6	Immature	N/A																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
36	4125 - Black, N. Pin Oak	Sawtimber Poor	25.5	96	1-50	N/A	regeneration is mostly stump sprouts		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		77	Log	15	96	Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		20	Log	12		Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
						Bigtooth Aspen	Low	10 - 20 feet	Sapling
37	42210 - Natural Red Pine	Sawtimber Well	18.7	69	111-140	N/A	very hummocky		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		60	Log/XLog	16	69	Red Maple	High	>20 feet	Sapling
White Pine		20	Log/XLog/Pole	14		White Pine	High	>20 feet	Sapling
Red Maple		20	Pole	6		Tag Alder	Medium	10 - 20 feet	Tall Shrub
38	4130 - Aspen	Poletimber Well	9.8	45	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Pole/Log	9	45	Red Maple	High	>20 feet	Sapling
Red Maple		10	Pole/Log	9		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
39	6120 - Lowland Cedar	Poletimber Well	21.3	89	51-80	N/A	OPIC - FMD: Q5Q2-PATCHES OF Q3, NICER CEDAR IN SOUTH END. Trail enters stand from the east.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar		90	Pole	7	89	Balsam Fir	High	10 - 20 feet	Sapling
Balsam Poplar		8	Log	12		Tag Alder	High	10 - 20 feet	Tall Shrub
40	4139 - Aspen, Mixed Deciduous	Sawtimber Well	5.3	54	51-80	N/A	OPIC - FMD: ALONG SWAMP EDGE. A3 along Brush Creek Truck Trail.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Log/Pole	10	54	Red Maple	High	>20 feet	Sapling
Red Maple		55	Pole	6		Balsam Fir	High	>20 feet	Sapling
41	42220 - Natural Jack Pine	Sawtimber Medium	1.9	89	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine		80	Log	10	89	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
Red Maple		10	Pole	5		Balsam Fir	Medium	5 - 10 feet	Sapling
42	42110 - Planted Red Pine	Sawtimber Well	9.5	59	141-170	N/A	OPIC - FMD: 3rd row thinned 2004, sale 011-02.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log	12	59	Red Maple	Low	5 - 10 feet	Sapling
						Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
43	4123 - Red Oak	Sawtimber Well	29.2	84	111-140	N/A																																								
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44	42220 - Natural Jack Pine	Poletimber Well	6.0	64	51-80	N/A																																								
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45	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	38.3	14	Immature	N/A	OPIC - FMD: Aspen, oak and cherry along with the planted red pine, 54-018-01-01																																							
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48	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	13.6	79	171-200	N/A	some wp exceeding 36 inches dbh.																																							
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49	4133 - Aspen, Mixed Pine	Sapling Well	8.5	6	51-80	N/A	Timber Sale # 54-046-11-01 completed on 6/24/13																																													
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50	6120 - Lowland Cedar	Poletimber Well	6.2	92	81-110	N/A	OPIC - FMD: HIGHLY VARIABLE, WHITE PINE MAPLE OR TAG ALDER BELOW, ALL BUT PINE LOGS were CUT																																													
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51	6121 - Tamarack	Poletimber Well	6.3	100	51-80	N/A	OPIC - FMD: WET, VERY BRUSHY, SCATTERED PINE LOGS ON EDGE--PRIVATE HAVE CUT ON THEIRS																																													
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52	4133 - Aspen, Mixed Pine	Poletimber Well	22.9	45	51-80	N/A	OPIC - FMD: SOME WET AREAS--RED PINE RESIDUAL--BLUEBERRY																																													
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53	4139 - Aspen, Mixed Deciduous	Sapling Well	7.0	14	Immature	N/A	OPIC - FMD: Cut in 2005. CC Voyer 54-018-01-01, oak and red pine in overstory.																																													
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55	42220 - Natural Jack Pine	Poletimber Well	21.3	57	51-80	N/A	THIS AREA IS NATURAL JACK WHICH SEEMS TO HAVE COME IN AFTER A FIRE, POSSIBLE FROM HOME PLACE IN THIS AREA.																												
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56	42110 - Planted Red Pine	Poletimber Well	13.2	59	111-140	N/A	3rd. Row thinned 2004, sale 011-02. Tree stand in the east. LCR = 0.5.																												
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57	4130 - Aspen	Sapling Well	8.4	6	Immature	N/A	Sale # 54-046-11-01 completed on 6/24/13																												
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58	42220 - Natural Jack Pine	Poletimber Medium	2.7	47	51-80	N/A	LEFT ALONG SNO-MO FOR VISUAL REASONS																												
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59	4310 - Pine, Oak Mix	Sapling Well	28.0	25	Immature	N/A	JACK PINE PLANTED MAY 1994, jack pine and aspen mixed in.																												
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62	4132 - Aspen, Jack Pine	Sapling Poor	21.4	6	Immature	N/A	-Stand was harvested with timber sale number: 54-047-11-01 -Retained oak and red pine for visual																																
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63	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	55.0	25	1-50	N/A	OPIC - FMD: BURNED AND PLANTED IN 1995. FTP 54-657 completed May 1997. Mix of other species. Ask Bob Theiner about a radio that got lost on the burn.																																
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64	42220 - Natural Jack Pine	Poletimber Well	7.1	89	51-80	N/A	low parvha.																																
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65	4311 - Pine, Aspen Mix	Sapling Well	4.8	25	Immature	N/A	JACK PINE PLANTED MAY 1994, jack pine and aspen mixed in.																																
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66	4131 - Aspen, Oak	Sapling Poor	1.7	6	Immature	N/A	OPIC - FMD: SMALL KNOLL ALONG ROAD, Leave Oak. Any mixture of aspen/oak and conifer is acceptable regeneration. Timber Sale # 54-046-11-01 completed on 6/24/13																																
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67	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	2.7	89	51-80	N/A																																	
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68	42220 - Natural Jack Pine	Poletimber Well	24.5	87	81-110	N/A	Sale Name: Jack Hoover; Sale No.: 54-047-11-01 but it was returned to the state un-harvested.																																
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69	4310 - Pine, Oak Mix	Sapling Medium	25.1	14	Immature	N/A	Cut in 2005. CC Voyer 54-018-01-01																																	
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70	320 - Upland Shrub	Nonstocked	1.3			No																																		
71	320 - Upland Shrub	Nonstocked	1.7			Managed Opening	OPIC - FMD: Wildlife opening in need of work. Weeds, some trash. Plant food/cover crops. OI Stand Year Origin was																																	
72	31021 - Cool Season Grass	Nonstocked	1.0			No	GAS PAD																																	
73	320 - Upland Shrub	Nonstocked	2.9			No	scattered cherry, slowly being reclaimed by red pine and Jack pine.																																	
74	6225 - Bog	Nonstocked	3.4			No	OPIC - FMD: WET BOG																																	
75	31021 - Cool Season Grass	Nonstocked	1.1			No	GAS PAD																																	
76	31022 - Warm Season Grass	Nonstocked	1.1			No	OPIC - FMD: GAS PADS AND PIPELINES																																	
77	31021 - Cool Season Grass	Nonstocked	0.9			No	GAS PAD																																	
78	31021 - Cool Season Grass	Nonstocked	1.3			No	gas well																																	
79	31021 - Cool Season Grass	Nonstocked	1.6			No	Gas well																																	
80	4139 - Aspen, Mixed Deciduous	Poletimber Well	14.9	48	51-80	N/A																																		
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83	330 - Low-Density Trees	Nonstocked	6.7	0		4211 - Planted Red Pine	FTP C54-1089 Herbicide on 7/17/17 Trenched on 10/25/2017 Planted to red pine at 938 RP per acre on 5/12/2018 Year 1 Survey 10/18/18 828 TPA.																																	
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84	42120 - Planted Jack Pine	Sapling Well	24.2	26	Immature	N/A	OPIC - FMD: JACK PINE PLANTED MAY 1994--ORV TRAIL--																																	
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86	4134 - Aspen, Spruce/Fir	Sawtimber Well	9.0	48	81-110	N/A																																		
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87	320 - Upland Shrub	Nonstocked	1.4			Managed Opening	A.O. has been planted on edge of stand and is taking over the opening.																																	
88	622 - Lowland Shrub	Nonstocked	8.6			No	brush creek																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
89	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	3.6	94	1-50	N/A	quite open in the middle.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Black/Red (Hybrid) Oak		40	Log	16	94	Black/Red (Hybrid) Oak	
Red Maple		30	Log	11		Balsam Fir	
Bigtooth Aspen		20	Log	12		Medium	
Balsam Fir		10	Pole	8		5 - 10 feet	
						Sapling	
91	4125 - Black, N. Pin Oak	Sawtimber Poor	1.6	98	1-50	N/A	OPIC - FMD: ABANDONED OPENING DON'T ACCESS WITH FOR MAINT. WITHOUT A WETLAND PERMIT AND CULVERT OI Stand Year Origin was .. would need a short portable bridge. * ground cover is sweet fern.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Black/Red (Hybrid) Oak		90	Log	16	98	Red Pine	
Red Pine		10	Log	17		Black/Red (Hybrid) Oak	
						White Pine	
						Low	
						10 - 20 feet	
						Sapling	
92	4193 - Birch, Aspen	Sapling Well	19.4	26	1-50	N/A	OPIC - FMD: NE AND NW ARE WET--WHERE SWAMP CONIFER WAS CUT IT IS GROWING MARSH GRASS IT IS MORE UPLAND TO SOUTH AND EAST, trail along the south edge is wet.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Paper Birch		50	Sapling	2	26	Black/Red (Hybrid) Oak	
Quaking Aspen		30	Pole	5		Balsam Fir	
Red Maple		20	Sapling	2		Red Maple	
						High	
						>20 feet	
						Sapling	
93	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	3.3	65	1-50	N/A	OPIC - FMD: SIGN TRESPASS. Large trees around opening. Trail into opening is wet. Needs work.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Red Maple		95	Log/Pole	11	65	Black/Red (Hybrid) Oak	
						Red Maple	
						Balsam Fir	
						Low	
						10 - 20 feet	
						Sapling	
94	622 - Lowland Shrub	Nonstocked	1.8		Immature	No	
95	6123 - Lowland Fir	Sapling Well	1.2	38	1-50	N/A	OPIC - FMD: SWAMP CUT TO FEED DEER-DID NOT REGENERATE PROPERLY. Cut by the outlaw Wild Bob Theiner.
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack		20	Sapling	2			
Balsam Fir		50	Sapling	1	38		
Red Maple		25	Sapling	2			
96	4130 - Aspen	Sapling Poor	3.2	19	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		80	Sapling	2	19		
Black/Red (Hybrid) Oak		15	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
97	4139 - Aspen, Mixed Deciduous	Sawtimber Well	7.5	54	51-80	N/A	Has east-west drainage.																																					
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98	4133 - Aspen, Mixed Pine	Sawtimber Well	22.0	59	111-140	N/A																																						
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99	4130 - Aspen	Sapling Well	15.4	6	Immature	N/A	Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand. Timber Sale # 54-046-11-01 completed on 6/24/13																																					
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100	31021 - Cool Season Grass	Nonstocked	2.7		Unspecified	Managed Opening	Part of the former Phil H. Mitchell Field. Annual special use permits were issued from April of 1960 until May of 1970.																																					
101	429 - Mixed Upland Conifers	Poletimber Poor	15.1	53	1-50	N/A	OPIC - FMD: BRUSH ALONG EDGES OF MITCHELL FIELD																																					
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102	4130 - Aspen	Sapling Well	3.4	6	Immature	N/A	OPIC - FMD: Cut with stand 335. Any mixture of aspen/oak and conifer is acceptable regeneration. Timber Sale # 54-046-11-01 completed on 6/24/13																																					
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103	31021 - Cool Season Grass	Nonstocked	1.0			No	GAS PAD																																					
104	320 - Upland Shrub	Nonstocked	3.4		Immature	No	OPIC - FMD: opening adjacent to good small game habitat. Native grasses present. Remove woody encroachment, retain soft mast species. Do not allow use during harvest of adjacent forested stands OI Stand Year Origin was																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
105	4311 - Pine, Aspen Mix	Poletimber Well	4.6	38	1-50	N/A	OPIC - FMD: BEGINNING OF DRAINAGE TO EAST		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		30	Pole	6		Red Maple	Medium	Variable	Sapling
Red Pine		35	Log	12	38	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple		20	Pole	5					
Jack Pine		15	Pole	7					
106	42290 - Natural Mixed Pine	Sawtimber Medium	11.6	86	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		50	Log	15	86	Bigtooth Aspen	Full	>20 feet	Sapling
White Pine		40	Log	12		Red Maple	High	>20 feet	Sapling
Black/Red (Hybrid) Oak		10	Log	13		Jack Pine	Low	10 - 20 feet	Sapling
107	6129 - Mixed Coniferous Lowland Forest	Sapling Well	0.8	38	1-50	N/A	A future cedar stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Tamarack		35	Sapling	2		Northern White Cedar	Medium	10 - 20 feet	Sapling
Balsam Fir		40	Sapling	2	38	Tag Alder	High	>20 feet	Tall Shrub
Northern White Cedar		15	Sapling	2					
109	6130 - Fir, Aspen, Maple	Poletimber Well	10.6	53	1-50	N/A	WET, STREAM PASSING THROUGH STAND. Cedar clumps along stream.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		34	Sapling	4		Balsam Fir	Full	>20 feet	Sapling
Quaking Aspen		43	Pole	7	53	Paper Birch	Medium	10 - 20 feet	Sapling
Red Maple		10	Pole	5					
Black Spruce		10	Pole	6					
110	4319 - Mixed Upland Forest	Poletimber Well	2.9	35	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		40	Sapling/Pole	4	35	Red Maple	High	>20 feet	Sapling
Balsam Fir		30	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
White Pine		25	Log	11		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
111	4134 - Aspen, Spruce/Fir	Sapling Well	3.2	35	1-50	N/A	thick Aspen and balsam fir		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		50	Sapling/Pole	4	35	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		40	Pole/Sapling	5					
Red Maple		10	Sapling	2					