



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54024

Entry Year 2022

Acreage: 1,711

County Montmorency

Management Area: Avery Hills

Revision Date: 2020-05-19

Stand Examiner: Darrick Coy

Legal Description:

T30N, R02E, Sections 26-27 & 34-36

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 to balance the age classes of aspen and other deciduous cover types to sustainably produce various timber products, enhance game and non-game wildlife habitat and provide for forest-based recreational uses.

Soil and topography:

Soils are primarily well drained sands. The topography is mostly rolling with some minor areas of extreme slope or flat terrain. Cover types are predominately aspen, oak, cedar, and lowland conifer. Forest habitat types are primarily dominated by PArVVb, PArVHa, and unclassified lowland.

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

The compartment has some private parcels along the edge. The compartment has recreational use by ORVs & snowmobiles and receives a large amount of use by Antrim Gas Companies.

Unique Natural Features:

Rare and endanger species present. Contact Michigan Natural Features Inventory for more information or reporting.

Archeological, Historical, and Cultural Features:

Sites exist. Contact the State Historical Preservation Office for more information or reporting of new sites.

Special Management Designations or Considerations:

Dry-Mesic Northern Forest ERA ranking G4 and S3 and EO rank D.

Begin to introduce planted pine into areas of medium to high site quality where natural regeneration efforts have failed to sufficiently restock stands with more desirable northern hardwood regeneration.

Watershed and Fisheries Considerations:

Maintain proper protection distances for Chadwick and Crooked Creeks per BMP guidance and Fisheries Division consultation when preparing timber sales.

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 heavy aspen, mixed pine 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

No active sand/gravel operations are within three miles, but sand & gravel potential in the compartment appears to be good. This area has been drilled and is producing gas from the Antrim Shale. There is unlikely to be any additional Antrim development in the compartment in the future, and there is no known potential for hydrocarbon production from other proven formations. There is no known metallic mineral potential in this part of the state. All state-owned mineral rights in the compartment are currently leased and held by production. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

This compartment is accessed from two county roads: Shoreline Drive and Morning Star Lake Rd. There are several two tracks for traversing the area.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are many opportunities for hunting, fishing and wildlife viewing in the area. The Snowmobile Trail 4/9 runs through the east portion of the compartment and the Atlanta to Hunt Creek MCCCT Trail runs through the west part of the compartment.

Fire Protection:

Fire response to the compartment will be covered by the Atlanta DNR office as well as the Tri-Township Fire Department.

Additional Compartment Information:

The following reports from the Inventory are attached:

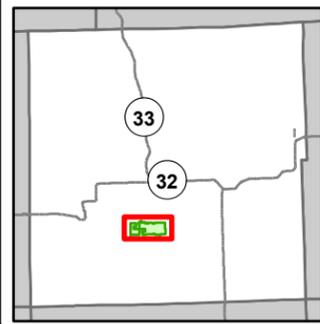
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

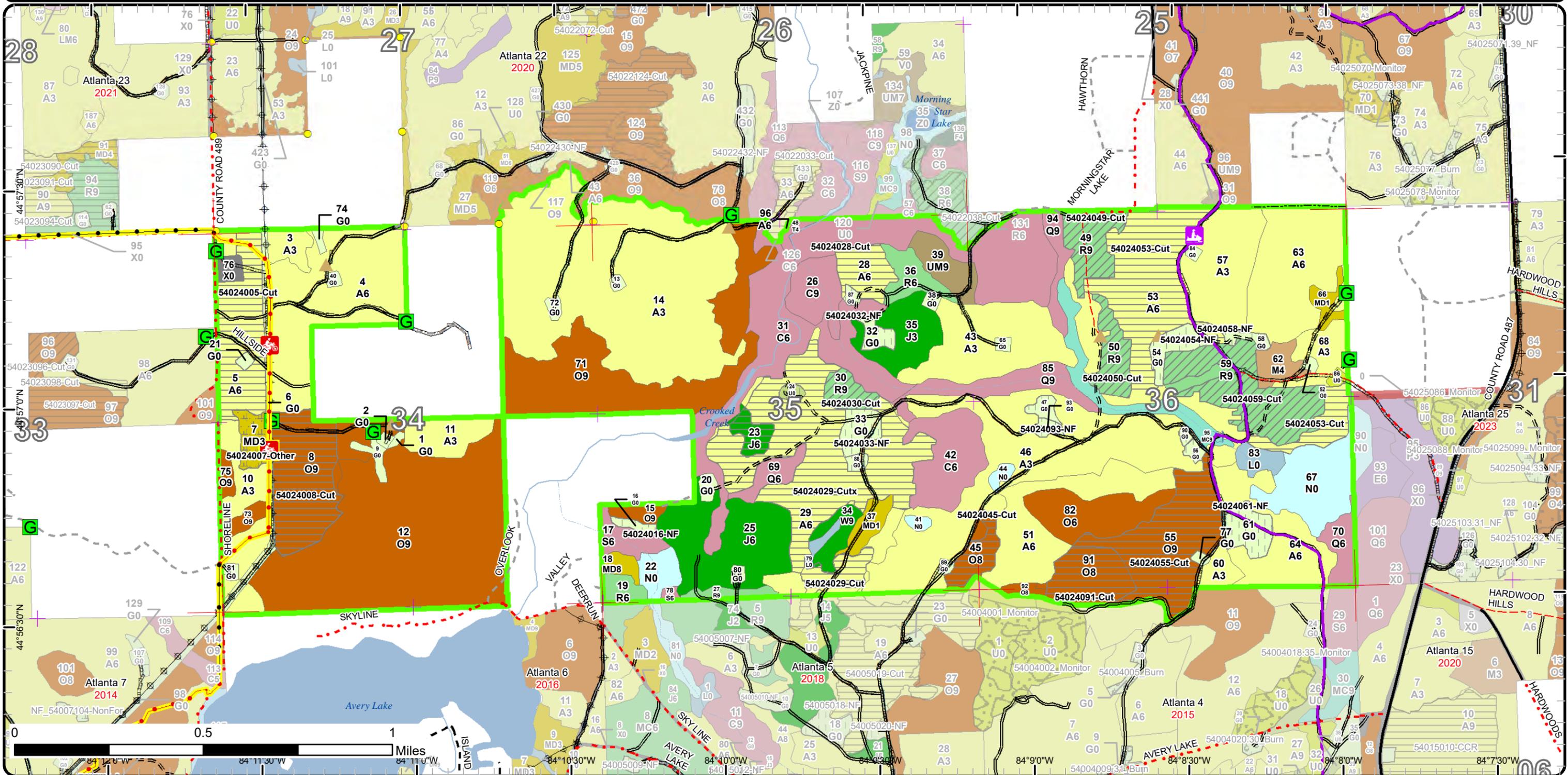
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 24
 T30N, R02E, Sec. 26, 27, 34-36
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Avery Hills
 YOE: 2022
 Acres: 1,711 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/22/2020
 Map Phase: Post-Review

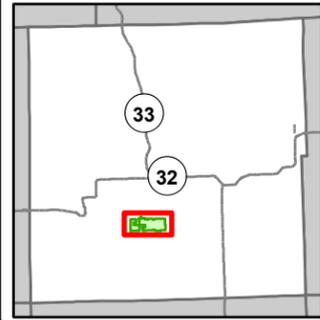


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🏍 Motorcycle Trails (DNR License)
- 🏍 MCCCT Trails
- 🏠 Snowmobile Trails
- ORV License
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- Ⓜ Gate
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 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
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



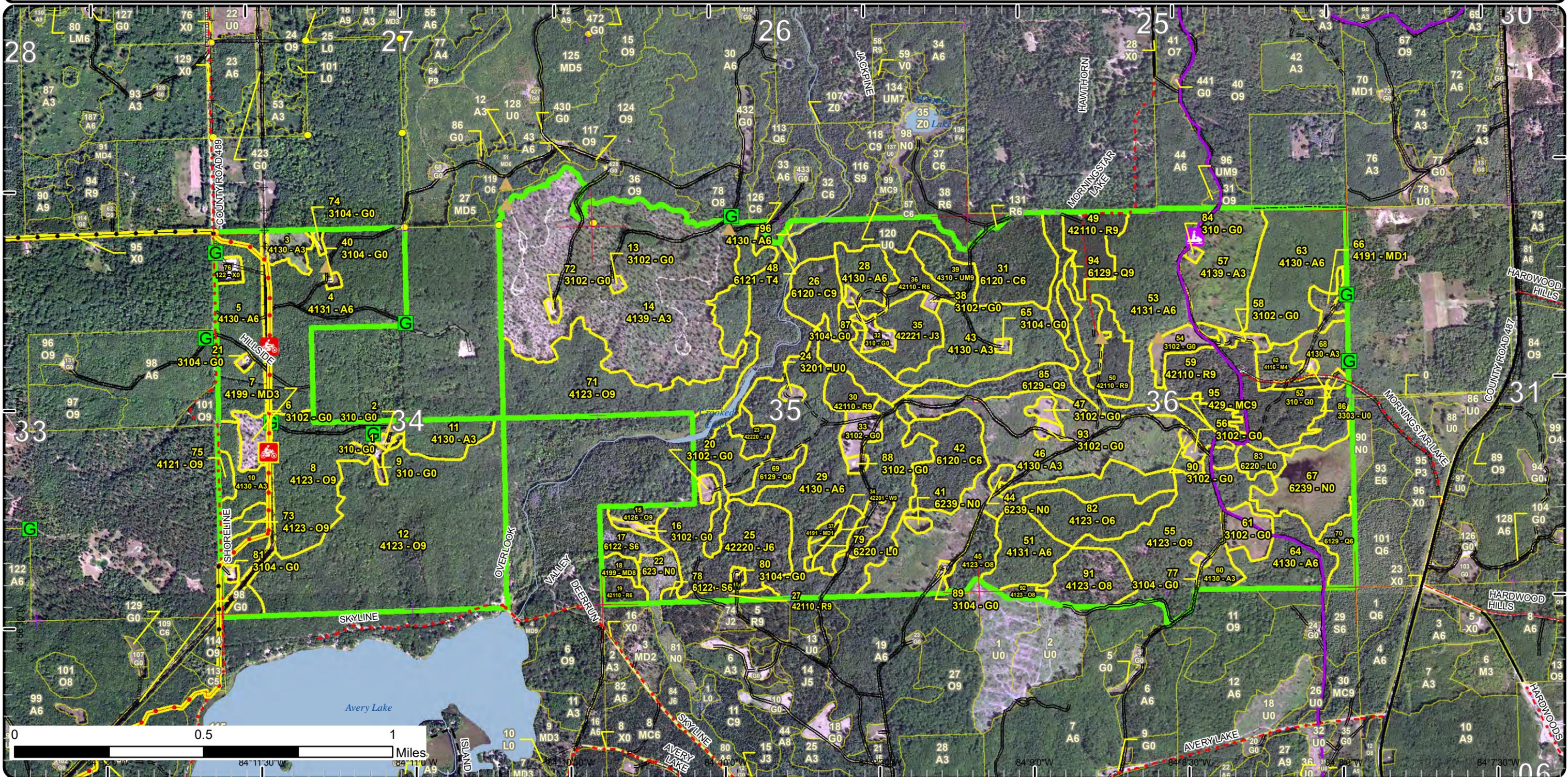
Stand Boundary Map

Compartment: 24
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 Map Revised: 10/22/2020
 Map Phase: Post-Review



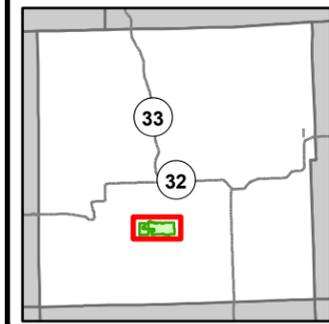
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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- Stand Boundaries

- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
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- 413 - Aspen
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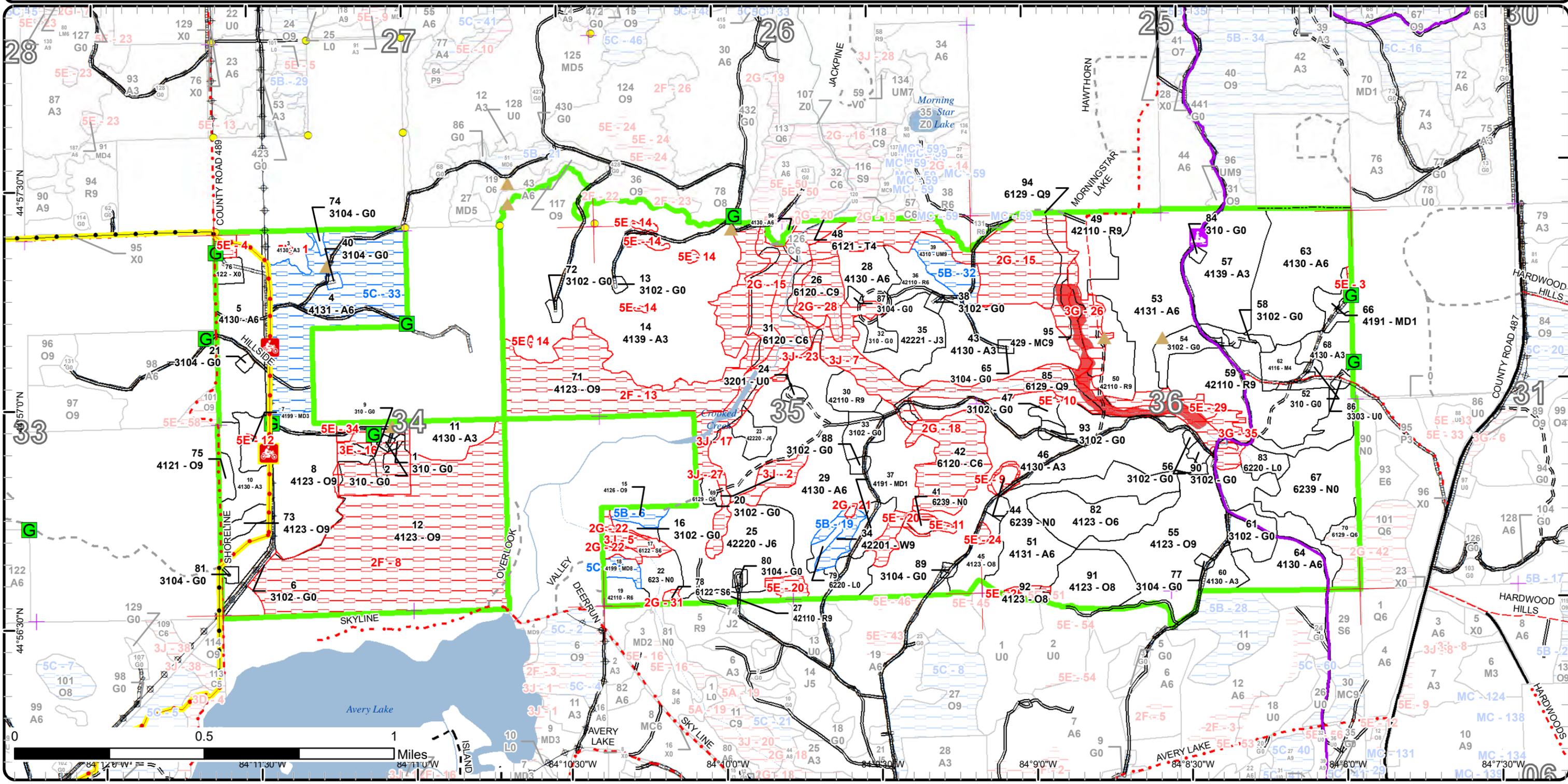
Special Conservation Areas

Compartment: 24
 T30N, R02E, Sec. 26, 27, 34-36
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- G Gate
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline

- ⊕ Powerline
- Fence
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 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)
- 3E: Easement / lease, non-military (e.g. Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 24 Year of Entry 2022



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	318	0	101	54	222	114	0	0	0	0	0	0	0	0	0	0	0	809
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	144	0	0	0	0	0	144
Herbaceous Openland	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Jack Pine	0	0	0	18	0	48	0	0	0	0	0	0	0	0	0	0	0	0	66
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	7	0	0	9	0	24	0	0	0	0	39
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Marsh	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Mixed Upland Deciduous	0	7	0	11	0	0	0	0	0	4	0	0	0	0	0	0	0	0	22
Northern Hardwood	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Oak	0	0	0	0	0	23	0	0	0	0	274	72	0	0	0	0	0	0	369
Red Pine	0	0	0	0	0	0	0	92	0	0	0	0	0	0	0	0	0	0	92
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	16
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Total	122	325	0	130	54	293	114	99	7	7	298	81	146	40	0	0	0	0	1714



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 24

Year of Entry: 2022

Acres of Harvest

Total Compartment Acres: 1,711

Commercial Harvest - 382
 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	199	0	0	0	0	0	0	0	0	199
Jack Pine	5	0	0	0	0	0	0	0	0	5
Oak	108	0	0	0	0	0	0	0	0	108
Red Pine	0	0	0	0	0	70	0	0	0	70
Total	312	0	0	0	0	70	0	0	0	382

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	382	0	0	0	0	0	7	42		431
Next Step	0	87	43	0	0	87	460	0	0	677
Total	382	87	43	0	0	87	460	7	42	1107



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

5	54024005-Cut	32.3	4130 - Aspen	Poletimber Well	51	Unspecified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u> -leave all white pine not to exceed a cumulative residual BA of 10 -leave 3-10% in area retention (already excluded- see site conditions layer) -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres) -Use Trail specs to protect MCCCT trail on road</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, fir, spruce, and pine of medium to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
7	54024007-Other	6.8	4199 - Other Mixed Upland Deciduous	Sapling Well	5	1-50	Other	Other	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Past treatment failed to regenerate to minimum acceptable species stocking and to desired Oak, Aspen (O) cover type objective.</p> <p><u>Specs:</u> The follow-up treatment is contingent on results of stand 8. If stand 8 fails to meet acceptable regeneration targets, plant stand 7 with stand 8. Convert this area to planted red pine where terrain allows if adjacent oak treatment in stand 8 to the east fails to achieve at least 50% aspen/oak regeneration stocking during regeneration survey. If acceptable regeneration target is achieved, accept current regeneration mix, and drop all planted red pine follow-up treatments. Protect MCCCT trail in timber sale specifications.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Fully stocked red pine with mixed deciduous associates. The current cover type of Other Mixed Upland Deciduous is also acceptable.</p> <p><u>Other Comment:</u> Start date is subject to change based on stand 8 harvest completion and regeneration survey.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
8 54024008-Cut	36.5	4123 - Red Oak	Sawtimber Well	99	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -leave 3-10% in retention pocket(s) (already excluded- see site conditions layer) -require low stumps, reducing, and/or breaking up slash for planted pine in timber sale specs -use police tower corners off survey to establish/paint boundaries (see compartment folder record) -protect MCCCT trail in timber sale specifications</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, <u>Treatments:</u> Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chop</p> <p><u>Acceptable Regen:</u> -survey regeneration early (3 growing seasons after cut is complete) -aspen, maple, oak, fir, and pine of medium to high stocking -a 50% minimum composition of oak/aspen of medium to high stocking is considered successful Suggested Management Follow-up (pending natural regeneration fails): -establish fully stocked red pine -a planted red pine objective is also considered acceptable</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
16 54024016-NF	1.9	3102 - Grass	Nonstocked			Unspec ified	NonForestMgt /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture <u>Specs:</u> practices</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
23 54024023-Cut	5.3	42220 - Natural Jack Pine	Poletimber Well	46	81-110	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -keep treatment boundary at least 100 ft away from Crooked and Chadwick Creeks (already excluded- see site conditions layer)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, fir, spruce, and pine of low to high stocking -an aspen cover type is also acceptable</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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24	54024024-NF	1.6	3201 - Sweet Fern	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

28	54024028-Cut	11.4	4130 - Aspen	Poletimber Well	54	Unspecified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in area retention
 -keep treatment boundary at least 100 ft away from Crooked and Chadwick Creeks (already excluded- see site conditions layer)
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)

Next Step ; Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable -any combination of aspen, maple, oak, fir, spruce, and pine of medium to high stocking
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

29	54024029-Cut	9.4	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Leave drumming logs for grouse spec 5.2.4.4. No retention necessary due to the size of this stand and because retention is already delineated in compartment 5 stand 19 (54005019-Cut) harvest immediately to the south. All Legacy Trees will be protected. Leave scattered White Pine over 18" dbh.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Quaking and Bigtooth Aspen. Any combination of mixed aspen, white pine, red pine, hybrid oak, white oak, red maple resulting in a medium to fully stocked stand.
Regen:

Other THIS TREATMENT REQUIRES A VARIANCE PRIOR TO IMPLEMENTATION.
Comment:

Site Condition

Proposed Start Date: 6 /12/2018



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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29	54024029-Cutx	83.8	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut

Specs:
 -mark 1 log size white pine and/or white oak per 2-3 acres
 -leave 3-10% in area retention (already excluded- see site conditions layer)
 -keep treatment boundary at least 100 ft away from Crooked and Chadwick Creeks (already excluded- see site conditions layer)
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: -any combination of aspen, maple, oak, fir, spruce, and pine of medium to high stocking

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

30	54024030-Cut	6.8	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription -thin to 120 residual BA

Specs:
 -ensure that equipment has at least 11 ft of operating space between the rows while marking
 -some rows may need to be entirely marked to cut if there is not enough room

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

32	54024032-NF	3.9	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Specs:

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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	Habitat Cut
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33	54024033-NF	6.5	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

45	54024045-Cut	8.3	4123 - Red Oak	Sawtimber Medium	97	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut-leave 2-3 white pine and/or white oak per acre-leave 3-10% in retention pocket(s) (already excluded- see site conditions layer)</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> -any combination of maple, oak, aspen, fir, spruce, and pine of medium to high stocking</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

47	54024047-NF	2.4	3102 - Grass	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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49	54024049-Cut	14.3	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription -thin to 120 residual BA

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other -past thinning completed in 2014 removed 37 BA, residual BA still is over 150

Comment: -mark during leaf-off, subcanopy is highly occupied (west of road only)

Site Condition

Proposed Start Date: 10/1 /2021

50	54024050-Cut	11.4	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription -thin to 120 residual BA

Specs: -ensure that equipment has at least 11 ft of operating space between the rows while marking
-some rows may need to be entirely marked to cut if there is not enough room

Next Step

Treatments:

Acceptable

Regen:

Other -mark during leaf-off, subcanopy is highly occupied

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

53	54024053-Cut	61.9	4131 - Aspen, Oak	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut (partial stand harvest due to adjacent ERA)

Specs: -leave all white pine not to exceed a cumulative residual BA of 10
-leave 3-10% in area retention (already excluded- see site conditions layer)
-MNFI concern within and/or near stand, adjust treatment following approved guidance
-keep treatment boundary at least 100 ft away from Chadwick Creek and 200ft away from the designated ERA (already excluded- see site conditions layer)
-add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)
-protect snowmobile trail in timber sale specifications

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

Treatments:

Acceptable -any combination of aspen, maple, oak, fir, spruce, and pine of medium to high stocking

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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54	54024054-NF	7.1	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

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

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

55	54024055-Cut	44.3	4123 - Red Oak	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Specs: -clearcut
 -leave all white pine not to exceed a cumulative residual BA of 10 (should not need to mark to leave, only a trace present)
 -leave 3-10% in retention pocket(s)
 -MNFI concern within and/or near stand, adjust treatment following approved guidance
 -protect at least 50% of any advanced pine in timber sale specifications
 -protect snowmobile trail in timber sale specifications

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: -survey regeneration early (3 growing seasons after cut is complete)
 -any combination of aspen, maple, oak, fir, and pine of medium to high stocking

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

56	54024056-NF	1.6	3102 - Grass	Nonstocked			Unspec NonForestMgt ified	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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58	54024058-NF	2.5	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

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

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

59	54024059-Cut	37.2	42110 - Planted Red Pine	Sawtimber Well	65	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription Specs: -thin to 120 residual BA
 -ensure that equipment has at least 11 ft of operating space between the rows while marking
 -some rows may need to be entirely marked to cut if there is not enough room
 -MNFI concern within and/or near stand, adjust treatment following approved guidance
 -protect snowmobile trail in timber sale specifications

Next Step Treatments:

Acceptable Regen:

Other Comment: -mark during leaf-off, subcanopy is highly occupied

Site Condition

Proposed Start Date: 10/1 /2021

61	54024061-NF	9.4	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	330 - Low-Density Trees	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

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

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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87	54024087-NF	1.1	3104 - Degraded	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

88	54024088-NF	1.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

90	54024090-NF	1.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
91 54024091-Cut	18.6	4123 - Red Oak	Sawtimber Medium	92	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u> -leave all white pine not to exceed a cumulative residual BA of 10 (should not need to mark to leave, only a trace present) -leave 3-10% in retention pocket(s) (already excluded see site conditions layer) -protect at least 50% of any advanced pine in timber sale specifications</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -survey regeneration early (3 growing seasons after cut is complete) -any combination of aspen, maple, oak, fir, and pine of low to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
93 54024093-NF	1.8	3102 - Grass	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 430.6

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 24
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5B	5C	2F	2G	3E	3G	3J	5E
808	699	68	42	Aspen	0	68		0	1	17	2	22
144	2	0	142	Cedar				93			50	
70	66	0	4	Herbaceous Openland	0				4			0
66	66	0	0	Jack Pine	0						0	
1	1	0	0	Low-Density Trees								
40	0	0	39	Lowland Conifers				15			24	
7	7	0	0	Lowland Shrub								
9	0	0	9	Lowland Spruce/Fir				5			4	
38	38	0	0	Marsh								0
21	17	4	0	Mixed Upland Deciduous		4						0
7	7	0	0	Northern Hardwood								
368	139	4	225	Oak	4		201	3	17			5
92	92	0	0	Red Pine						0		0
2	0	0	2	Tamarack				0			2	
16	1	0	15	Upland Conifers				4		2	9	
11	0	11	0	Upland Mixed Forest	11							
2	2	0	0	Upland Shrub								
3	3	0	0	Urban								
7	0	6	0	White Pine	6			0				
1,711	1,140	92	479	Total Forested Acres	21	71	201	120	22	20	90	27
	67%	5%	28%	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	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Darrick Coy : Examiner

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -important mast white oak stand with adv white oak regeneration							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	43	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Darrick Coy : Examiner

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8	Unavailable	2F: Too steep	131	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	69	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 14							

Report 4 – Site Conditions

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Darrick Coy : Examiner

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15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	69	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: -possibly some intermittent streams within the area							
16	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Police Tower- 2001, ~23 acres							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 29							

Report 4 – Site Conditions

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Darrick Coy : Examiner

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21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 45							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3G: Other Influence zones - See comments	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Darrick Coy : Examiner

Compartment: 24
Year of Entry: 2022



27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	4	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

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32	Available	5B: Maintain for regeneration purposes	11	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	2	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	Unspecified	Unspecified	Unspecified
Comments: retention for stand 8 Police Tower- 2001, ~23 acres							
35	Unavailable	3G: Other Influence zones - See comments	7	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
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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	310 - Herbaceous Openland	Nonstocked	0.6		Unspecified	No	
2	310 - Herbaceous Openland	Nonstocked	0.8		Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.
3	4130 - Aspen	Sapling Well	6.4	4	Immature	N/A	-past treatment- clearcut -sale number- 54-001-12-01 -acres- 6 -leave trees- yellow painted trees (10BA oak n pine) -volume (cdfs)- ro 21mbf, 28cdfs, aspen 24.7mbf, 46cdfs, rm 34cdfs, wo 1.6mbf, 5cdfs -completion- 2015
		Canopy Species	% Cover	Size Class	DBH	Age	
		Bigtooth Aspen	80	Sapling	1	4	
		Red Oak	5	Sapling	1		
		Red Oak	5	Log	14		
		Red Maple	10	Sapling	1		
4	4131 - Aspen, Oak	Poletimber Well	67.7	51	Unspecified	N/A	oak and pine heavier in south. Stand was not visited this entry. Stand data is from 2009 inventory. -FTP- clearcut aspen, oak, and rm, except leave well-crowned oak in south half -FTP number- W5-499 -acres- 36 -completion- 6/16/73 (46 yrs?)
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	8	Pole/Sapling	6	51	
		Red Oak	30	Log/Pole	12	99	
		Bigtooth Aspen	60	Pole	7	51	
		Red Pine	2	Log/Pole	12		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Low	5 - 10 feet	Sapling		
		Witch Hazel	Low	5 - 10 feet	Tall Shrub		
5	4130 - Aspen	Poletimber Well	34.8	51	Unspecified	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. nicest aspen stand in area, less oak residual was left. -FTP- clearcut aspen, oak, and rm, except leave well-crowned oak in south half, removed 21 BA -FTP number- W5-844 -acres- 70 -completion- 4/19/76 (43 yrs?)
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Pole	5		
		Red Oak	5	Log/Pole	12		
		Bigtooth Aspen	85	Pole	7	51	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Low	5 - 10 feet	Sapling		
		Witch Hazel	Low	5 - 10 feet	Tall Shrub		
6	3102 - Grass	Nonstocked	10.5		Unspecified	No	
7	4199 - Other Mixed Upland Deciduous	Sapling Well	6.8	5	1-50	N/A	-past treatment- clearcut -sale number- 54-001-12-01 -acres- 7 -leave trees- yellow painted trees (17 BA oak) -volume (cdfs)- ro 24.5mbf, 93cdfs, aspen 0mbf, 31cdfs, rm 22cdfs, wo 7mbf, 25cdfs -completion- 2015
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Oak	10	Log	12	99	
		Black Cherry	58	Sapling	1	5	
		Bigtooth Aspen	28	Sapling	1	5	
		Red Oak	4	Sapling	1	5	
8	4123 - Red Oak	Sawtimber Well	45.2	99	81-110	N/A	mix of mature oak with smaller aspen.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	15	Pole	7		
		Red Oak	70	Log/Pole	13	99	
		Bigtooth Aspen	10	Pole/Log	8	51	
		White Oak	5	Log/Pole	13		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Medium	Variable	Sapling		
		Witch Hazel	High	5 - 10 feet	Tall Shrub		
		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
9	310 - Herbaceous Openland	Nonstocked	2.7		Unspecified	No	Stand was not visited this entry. Stand data is from 2009 inventory.																																																
10	4130 - Aspen	Sapling Well	23.3	36	Unspecified	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. scattered pine and oak residual. few pockets were left for visual. -record for 1975 clearcut for 20 acres across the road. It's possible that they got the legal description wrong..... -past treatment- clearcut -sale number- 54-056-82-01 -acres- 30 -leave trees- -volume (cds)- aspen 217, ro 266, mhwd 60 -completion- 1/26/84																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>8</td> <td>Sapling/Pole</td> <td>2</td> <td>36</td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>90</td> <td>Sapling/Pole</td> <td>3</td> <td>36</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	8	Sapling/Pole	2	36	Red Oak	2	Sapling/Pole	3		Bigtooth Aspen	90	Sapling/Pole	3	36																																	
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	8	Sapling/Pole	2	36																																																			
Red Oak	2	Sapling/Pole	3																																																				
Bigtooth Aspen	90	Sapling/Pole	3	36																																																			
11	4130 - Aspen	Sapling Well	13.0	27	Unspecified	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. steep slopes, scattered birch. -past treatment- clearcut -sale number- 54-033-92-01 -acres- 15 -leave trees- all rp or wp -volume (cds)- aspen 184, rp 82, ro 263, mhwd 77 -completion- 8/25/93																																																
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12	4123 - Red Oak	Sawtimber Well	141.6	99	141-170	N/A	Stand was not visited this entry. Stand data is from 2009 inventory.nice stand of wood, but entire stand has inoperable slopes. scattered, ash white oak and white pine with. some pine regen-mineral permit to fill in front of residence which recently washed out as a result of Avery Lake Dam going out on 11-13-69 in SE corner of stand																																																
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13	3102 - Grass	Nonstocked	0.9		Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.																																																
14	4139 - Aspen, Mixed Deciduous	Sapling Well	162.4	4	Immature	N/A	-past treatment- clearcut -sale number- 54-001-12-01 -acres- 159 (stands 14 & 28) -leave trees- all rp and wp and all yellow painted trees (19 BA oak n pine) -volume (cds)- ro 417mbf, 1994cgs, aspen 18.5mbf, 677cgs, rm 628cgs, wo 21.9mbf, 328cgs (stands 14 & 28) -completion- 2016																																																
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15	4126 - White, Black, N. Pin Oak	Sawtimber Well	4.0	96	51-80	N/A	-small stand, poor access, low volumes-good mast tree stand with thick advance white oak regen-vha site																																															
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16	3102 - Grass	Nonstocked	1.9		Unspecified	No	New stand added.																																															
17	6122 - Black Spruce	Poletimber Well	7.8	99	81-110	N/A	survey corner in nw corner of stand. pocket of tagalder where stand flooded in south part of stand.																																															
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18	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	3.5	96	51-80	N/A	-Stand was not visited this entry. Stand data is from 2009 inventory. -stand topography is mainly two n/s ridges -aspen is towards north edge -poor access and variable/poor timber quality/form																																															
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19	42110 - Planted Red Pine	Poletimber Well	4.9	60	111-140	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. -FTP- planting -FTP number- C54-46 -acres- 8 -spacing- 7.5x7.5 -trees/acre- 700 -completion- 9/30/59 -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 (cads)- rp-218																																															
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21	3104 - Degraded	Nonstocked	1.0	0	Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.																																															
22	623 - Emergent Wetland	Nonstocked	7.3		Unspecified	No																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
23	42220 - Natural Jack Pine	Poletimber Well	5.6	46	81-110	N/A																																																												
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24	3201 - Sweet Fern	Nonstocked	1.6			No	half ground cover is sweet fern, no past evidence of evidence of maintenance																																																											
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26	6120 - Lowland Cedar	Sawtimber Well	14.3	113	Unspecified	N/A	New stand added. Stand was not visited this entry. Stand data is from 2009 inventory.																																																											
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27	42110 - Planted Red Pine	Sawtimber Well	4.4	60	111-140	N/A	treat with adjacent stand to south. -FTP- planting -FTP number- C54-44 -acres- 5 -spacing- 7.5x7.5 -trees/acre- 600 -completion- 9/26/59 -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 (cds)- rp-487, jp- 205, aspen- 32; rolling terrain																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	4130 - Aspen	Poletimber Well	11.4	54	Unspecified	N/A	New stand added.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	10	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
	Bigtooth Aspen	75	Pole	7	54	White Pine	Low	Variable	Sapling
	Balsam Fir	10	Pole	7		Red Maple	Medium	Variable	Sapling
	White Pine	5	Pole	8					
29	4130 - Aspen	Poletimber Well	103.1	46	81-110	N/A	-some scattered red pine and white oak. few small areas of u-type and jp		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Oak	10	Log/Pole	12		Red Maple	High	Variable	Sapling
	Bigtooth Aspen	25	Pole	7		White Pine	Low	Variable	Sapling
	Quaking Aspen	40	Pole	7	46	Balsam Fir	Medium	Variable	Sapling
	Balsam Fir	4	Pole	7		Northern Pin Oak	Low	Variable	Sapling
	White Pine	8	Pole/Log	8					
	Jack Pine	5	Pole/Log	8					
	White Oak	2	Log	14					
	Red Pine	1	Log	15					
	Northern Pin Oak	5	Log	14					
30	42110 - Planted Red Pine	Sawtimber Well	6.8	60	141-170	N/A	-FTP- planting -FTP number- C54-43 -acres- 11 (lost 3-4 acres to west, competition) -spacing- 7.5x7.5 -trees/acre- 700 -completion- 9/22/59 stand was thinned in 2004. few scattered oak.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Pine	97	Log/Pole	11	60	Red Oak	Low	Variable	Sapling
	Red Oak	1	Log	15		Balsam Fir	Low	Variable	Sapling
	White Oak	2	Log	14		White Pine	Low	Variable	Sapling
						Red Maple	Medium	Variable	Sapling
31	6120 - Lowland Cedar	Poletimber Well	104.0	113	141-170	N/A	-Part (west 1/2) of this stand was not visited this entry. Stand data is from 2009 inventory.-stream/drainage corridor throughout stand-east 40 acre portion is not too bad to walk through, primarily log cedar with large spruce poles-not much standing water or hummocks and cedar is healthy with good crowns		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Spruce	30	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
	Northern White Cedar	50	Log/Pole	12	113	Tag Alder	Low	5 - 10 feet	Tall Shrub
	Tamarack	5	Pole	7					
	White Pine	5	Log/Pole	13					
	Balsam Fir	10	Pole	8					
32	310 - Herbaceous Openland	Nonstocked	3.9		Unspecified	No	Stand was not visited this entry. Stand data is from 2009 inventory.		
33	3102 - Grass	Nonstocked	6.5			Managed Opening	previously mowed		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
34	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	7.0	83	81-110	N/A	small area of low ground tagalder in center of stand. the rest of stand is pine uplands.																																									
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35	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	18.3	27	Unspecified	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. -past treatment- clearcut -sale number- 54-005-92-01 -acres- -leave trees- none -volume (cds)- aspen 6, rp 30, ro 32, mswd 28, mhwd 12, jp 246 -completion- 12/1/92																																									
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36	42110 - Planted Red Pine	Poletimber Well	9.2	60	111-140	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. -FTP- planting -FTP number- C54-42 -acres- 8 -spacing- 7.5x7.5 -trees/acre- 600 -completion- 9/25/59 -third row thin completed 2/2014 -Morning Star Pine 54-018-12-01 -residual BA 71																																									
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37	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	6.3	25	1-50	N/A	Stand swapped from Forested to Non-Forested. -stand has slowly converted into a forested condition																																									
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38	3102 - Grass	Nonstocked	1.2		Unspecified																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
39	4310 - Pine, Oak Mix	Sawtimber Well	10.8	92	111-140	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. mix of species and ages.																																																			
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40	3104 - Degraded	Nonstocked	1.0	0	Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.																																																			
41	6239 - Mixed Emergent Wetland	Nonstocked	1.4			No	-mostly cattails and water																																																			
42	6120 - Lowland Cedar	Poletimber Well	25.4	113	171-200	N/A	-stream in north part of stand-not too bad to walk through with frozen ground-80% coverage or more of moss-old orange painted cedar trees found throughout?																																																			
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43	4130 - Aspen	Sapling Well	41.4	26	51-80	N/A	some areas of low ground along north edge.-past treatment- clearcut-sale number- 54-005-92-01-acres- -leave trees- none-volume (cde)- aspen 293, rp 82, ro 100, mswd 74, mhwd 192, jp 46-completion-12/1/92																																																			
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44	6239 - Mixed Emergent Wetland	Nonstocked	1.9		Immature	No	-mix of cattails and lowland shrub, cross between emergent wetland and shrub but mostly shrub/tag alder-large white pines surrounding																																																			
45	4123 - Red Oak	Sawtimber Medium	10.2	97	51-80	N/A	-stand was thinned in past 20 years-vha/vvb transitional site quality																																																			
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46	4130 - Aspen	Sapling Well	96.3	6	Immature	N/A	small memorial in south part of stand, just north of well pad. few pockets of low ground.																																					
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47	3102 - Grass	Nonstocked	2.4		Immature	Managed Opening	-wellhead to the northern end-recently mowed																																					
48	6121 - Tamarack	Poletimber Poor	2.1	113	Unspecified	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. stream/drainage corridor throughout stand. -split stand from adj cedar, check type																																					
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49	42110 - Planted Red Pine	Sawtimber Well	15.0	60	141-170	N/A	-FTP- planting-FTP number- C54-38-acres- 16-spacing- 7.5x7.5-trees/acre- 800-completion- 9/22/59-past treatment- thinning, cut trees with orange paint-sale number- 54-007-92-01-acres- 13-leave trees- rp-volume (cde)- rp 179-completion- 6/17/92-marked thin completed 2/4/2014-residual BA is 14018, 20, 18, 14, 16, 15, 10, 16, 17,																																					
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50	42110 - Planted Red Pine	Sawtimber Well	11.4	60	141-170	N/A	-FTP- planting -FTP number- C54-39 -acres- 11 -spacing- 7.5x7.5 -trees/acre- 700 -completion- 9/23/59 -past treatment- thinning, cut every 3rd row, except small part of stand west of two-track -sale number- 54-018-03-01 -acres- 53 (stands 50 and 59) -leave trees- 123 BA in 2005, 178 was pre-harvest -volume (cde)- rp 925, aspen 19 (stands 50 and 59) -completion- 2/9/0519, 17, 14, 20, 17, 18-good row integrity and widths																																					
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51	4131 - Aspen, Oak	Poletimber Well	36.1	41	81-110	N/A	decent amount of oak came back from last harvest-more oak to east half, more aspen to west																																																			
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52	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified		well head																																																			
53	4131 - Aspen, Oak	Poletimber Well	82.5	48	81-110	N/A	-small diameters on a lot of aspen, especially in middle of stand-pretty good hill in center of stand with mast oak-FTP- manual cut, cut aspen, birch, red maple, oak, and misc hwds-FTP number- W-193-31-acres-25-completion- 2/4/74																																																			
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54	3102 - Grass	Nonstocked	7.1			Managed Opening	-disced and seeded in 2019 it appears																																																			
55	4123 - Red Oak	Sawtimber Well	44.3	92	81-110	N/A	-past treatment- thinning, cut all orange trees -sale number- 54-018-02-01 -acres- 35 -leave trees- residual/unmarked -volume (cds)- aspen 70, ro 134, mo 77, rm 128 -completion- 9/23/05 -30-40% rm sap coverage in subcanopy in east half vvb/vha, rm is patchy, about half is open or minimal rm competition																																																			
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56	3102 - Grass	Nonstocked	1.6		Unspecified																																																					
57	4139 - Aspen, Mixed Deciduous	Sapling Well	33.3	5	1-50	N/A	regen in pockets. -past treatment- selection, cut trees with orange paint-sale number- 54-019-02-01-acres- 38-leave trees- 75-90 BA-volume (cds)- aspen 170, ro 82, rm 170 -completion- 12/03/04-clearcut complete in 2015, left ~10 BA of white and red oak																																																			
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59	42110 - Planted Red Pine	Sawtimber Well	40.0	65	141-170	N/A	-1955 planting record for rp planting -past treatment- thinning, cut every 3rd row -sale number- 54-018-03-01 -acres- 53 (stands 50 and 59) -leave trees- 155 BA in 2005, 228 was pre-harvest -volume (cds)- rp 925, aspen 19 (stands 50 and 59) -completion- 2/9/05																																										
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62	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	7.2	62	1-50	N/A																																											
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63	4130 - Aspen	Poletimber Well	46.2	28	Immature	N/A	-past treatment- clearcut-sale number- 54-004-92-01-acres- 47- leave trees- oak-volume (cds)- bta 946, ro 418, mhwd 69-completion- 11/18/92																																										
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64	4130 - Aspen	Poletimber Well	30.8	34	51-80	N/A	-FTP- residual cut, remove residual tree species with KG blade -FTP number- W54-327 -acres- 30 -completion- 2/1986 -past treatment- clearcut -sale number- 54-068-83-01 -acres- 35 -leave trees- none -volume (cds)- aspen 247, mixed pine 45 mbf, 88 cds, mixed hwd 31 cds (stands 64 and 69) -completion- 3/18/85 -lowland transition to E																																																			
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65	3104 - Degraded	Nonstocked	0.9	0	Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.																																																			
66	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	4.4	28	Immature	N/A																																																				
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67	6239 - Mixed Emergent Wetland	Nonstocked	27.6		Unspecified	No																																																				
68	4130 - Aspen	Sapling Well	13.4	5	Immature	N/A																																																				
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69	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.8	77	111-140	N/A	-stream/drainage corridor throughout stand. -mostly black spruce in the north half -mostly tamarack in south half																																																			
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70	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.5	104	81-110	N/A	-some dieback along north edge-standing water throughout with patchy cattails																																										
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71	4123 - Red Oak	Sawtimber Well	71.6	102	111-140	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. nice stand of oak, with areas of aspen. scattered white pine and ash. white pine regen mainly in pockets. steep slopes prevent treating stand.																																										
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72	3102 - Grass	Nonstocked	1.3		Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.																																										
73	4123 - Red Oak	Sawtimber Well	3.9	92	81-110	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. -this area was not cut with surrounding stands																																										
74	3104 - Degraded	Nonstocked	0.9	0	Unspecified	No	Stand was not visited this entry. Stand data is from 2009 inventory.																																										
75	4121 - Oak, Aspen	Sawtimber Well	3.1	92	81-110	N/A	Stand was not visited this entry. Stand data is from 2009 inventory. -this stand was not cut with surrounding stands																																										
76	122 - Road/Parking Lot	Nonstocked	3.1		Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.																																										
77	3104 - Degraded	Nonstocked	0.9	0	Unspecified																																												
78	6122 - Black Spruce	Poletimber Well	1.1	99	81-110	N/A	survey corner in nw corner of stand. pocket of tagalder where stand flooded in south part of stand.																																										
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79	6220 - Alder/willow	Nonstocked	2.1		Immature	No	small area of low ground tagalder in center of stand. the rest of stand is pine uplands.																																										
80	3104 - Degraded	Nonstocked	1.1	0	Immature		well head in opening																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
81	3104 - Degraded	Nonstocked	1.2	0	Unspecified		Stand was not visited this entry. Stand data is from 2009 inventory.																																																			
82	4123 - Red Oak	Poletimber Well	23.1	41	81-110	N/A	decent amount of oak came back from last harvest -more oak to east half, more aspen to west																																																			
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83	6220 - Alder/willow	Nonstocked	5.1		Unspecified	No																																																				
84	310 - Herbaceous Openland	Nonstocked	0.9	0	Unspecified		-well head in small openin																																																			
85	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	17.2	120	81-110	N/A	-stream flows through middle of stand in south-heavier to spruce in south and cedar in middle of stand-large white pine scattered throughout-no stream flowing in north south portion, just saturated drainage																																																			
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86	3303 - Mixed Low Density Trees	Nonstocked	1.1	0	Immature	No																																																				
87	3104 - Degraded	Nonstocked	1.1	0	Unspecified	No	New stand added. Stand was not visited this entry. Stand data is from 2009 inventory.																																																			
88	3102 - Grass	Nonstocked	1.5		Unspecified		previously mowed																																																			
89	3104 - Degraded	Nonstocked	0.9	0	Unspecified		small memorial in south part of stand, just north of well pad. few pockets of low ground.																																																			
90	3102 - Grass	Nonstocked	1.0		Unspecified	No																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
91	4123 - Red Oak	Sawtimber Medium	18.9	92	51-80	N/A	-past treatment- thinning, cut all orange trees -sale number- 54-018-02-01 -acres- 35 -leave trees- residual/unmarked -volume (cds)- aspen 70, ro 134, mo 77, rm 128 -completion- 9/23/05 -10-20% rm sap coverage in west half where site quality goes down to pvcd/parvha with a sw facing aspect, better for pine here anyway																																																				
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92	4123 - Red Oak	Sawtimber Medium	2.4	92	51-80	N/A	-past treatment- thinning, cut all orange trees-sale number- 54-018-02-01-acres- 35-leave trees- residual/unmarked-volume (cds)- aspen 70, ro 134, mo 77, rm 128-completion- 9/23/05-30-40% rm sap coverage in subcanopy in east half vvb/vha, rm is patchy, about half is open or minimal rm competition -10-20% rm sap coverage in west half where site quality goes down to pvcd/parvha with a sw facing aspect, better for pine here anyway																																																				
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95	429 - Mixed Upland Conifers	Sawtimber Well	15.6	120	81-110	N/A	-stream flows through middle of stand in south -large white pine scattered throughout -recent MNFI survey has designated this as a Dry Mesic Northern Forest ERA																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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96	4130 - Aspen	Poletimber Well	0.2	49	1-50	N/A	
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This stand was likely cleared of aspen, birch, oak, and red maple in 1971 based on what could be deciphered from old timber records. That would put the stand age at 47 as of 2018. The age was verified in the stand. (OPIC - FMD: Ridge in swamp, gas pad at end. Some red pine in o.s.)

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Black/Red (Hybrid) Oak					1	Log/Pole	11		Witch Hazel				Low	5 - 10 feet	Tall Shrub
White Pine					2	Pole/Log	9		Black/Red (Hybrid) Oak				Low	Variable	Sapling
Quaking Aspen					72	Pole/Sap/Log	8	49	White Oak				Low	Variable	Sapling
Balsam Fir					5	Pole/Sapling	5		Black Cherry				Low	Variable	Sapling
Red Maple					20	Pole/Sap/Log	7		Balsam Fir				Low	Variable	Sapling