



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54039

Entry Year 2024

Acreage: 1,886

County Montmorency

Management Area: Thunder Bay Outwash

Stand Examiner: Dale Parris

Legal Description:

T31N R02E Sections 1, 2, 3, 11, and 12

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Thunder Bay Outwash Management Area (TBOMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The timber analysis completed on the TBOMA indicated that the aspen, red pine, and upland mixed forest covertypes be of focus for harvest for the purpose of balancing the age classes of these covertypes across the Management Area (MA). Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

Soil and topography:

An estimated 80 percent of Compartment 39 is upland (flat to slightly rolling hills) and 20 percent is lowland (flat). The upland areas are dominated the well-drained Millersburg loamy sand and the excessively well drained Grayling and Rubicon sands. The lowland areas are dominated by the very poorly drained Tawas – Lupton mucks.

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

Compartment 39 is bordered by a combination of other state land, large acreage private recreation properties, and some private year-round residences.

Unique Natural Features:

The majority Jackson Lake is located in the southwest corner of Compartment 39. Areas of large old naturally regenerated red pine are present within the compartment.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) did have areas of concern within Compartment 39. For further information, contact the SHPO.

Special Management Designations or Considerations:

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website had record of 2 species historically being in or near Compartment 39 that require consideration when implementing forest management strategies. These species are the ram's head lady's-slipper *Cypripedium arietinum* and the northern amber bumble bee *Bombus borealis* (state special concerns species).

Watershed and Fisheries Considerations:

There is a boating access site at Jackson Lake. Proper actions should be taken to minimize the spread of invasive aquatic species.

Wildlife Habitat Considerations:

Compartment 39 contains a wide mix of habitat and cover types for wildlife from young aspen and openings to jack pine, oak, red pine, bog and cedar. As a result, many different species are found here. Featured species include elk, white-tailed deer, ruffed grouse, black bear, pileated woodpeckers, and American woodcock to name a few. These species will continue to persist and several will benefit from opening maintenance planned within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Sections 1-3 & 11-12, T31N-R2E, Montmorency County

No active sand/gravel pits occur in the area. There appears to be some good sand & gravel potential in the compartment on the uplands, but any surface mining would need to avoid oil & gas infrastructure. This area has been developed for and is producing gas from the Antrim Shale. Nearly all State-owned mineral rights are currently leased and held by production. Spacing requirements could limit potential of additional wells beneath the compartment. Additionally, due to the persistent low price of natural gas, there is unlikely to be any additional Antrim development in the area in the near future. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Access to Compartment 39 is from County Road 624, M-33, and County Road 628. The interior of the compartment is further accessible via a system of forest roads.

Survey Needs:

For the purpose of conducting timber sales and maintaining legal private/state land boundary posting locations, there may be a need for property line surveys within Compartment 39. Further investigation will be needed to determine the extent to which these surveys are required.

Recreational Facilities and Opportunities:

Rabbit/hare, grouse, whitetail deer, squirrel, turkey, and bear hunting opportunities are available within Compartment 39. Fishing opportunities are available at Jackson Lake. All hunting and fishing are to take place within season with a valid license. Wildlife viewing opportunities are also present. All regulations set forth by the Michigan Department of Natural Resources are to be adhered to by hunters and those fishing.

The High County Pathway runs through the western half of Compartment 39. The Michigan Cross Country Cycle Trail runs north-south through the center of the compartment. ATV, ORV, and snowmobiles trails/routes also weave their way through Compartment 39. Camping opportunities are available at Jackson Lake State Forest Campground located on the northern edge of Jackson Lake.

Fire Protection:

In the case of wildland fire, Compartment 39 is within the response area of the Atlanta DNR Fire Taskforce and the Montmorency County Tri-Township Volunteer Fire Department.

Additional Compartment Information:

The following reports from the Inventory are attached:

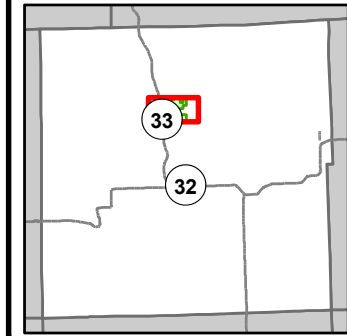
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

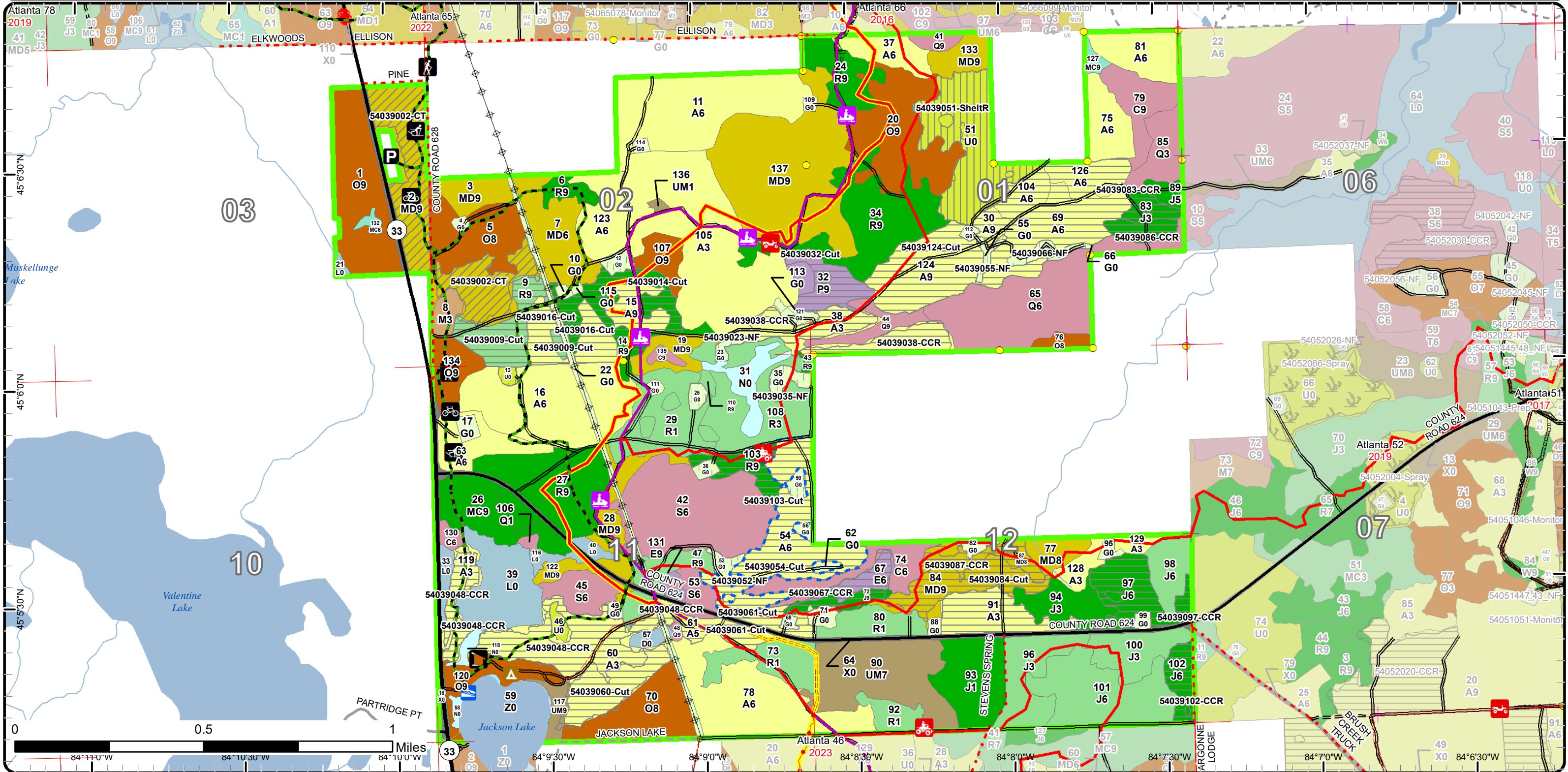
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 39
 T31N, R02E, Sec. 1-3, 11, 12
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2024
 Acres: 1886.4 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 11/16/2022
 Map Phase: Post-Review

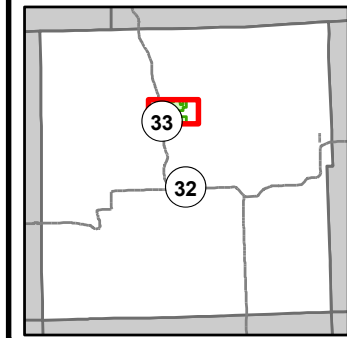


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- ORV License & Trail Permit
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Toilet
- Boating Access Site
- Campground
- Parking Lot
- Sign
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 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
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

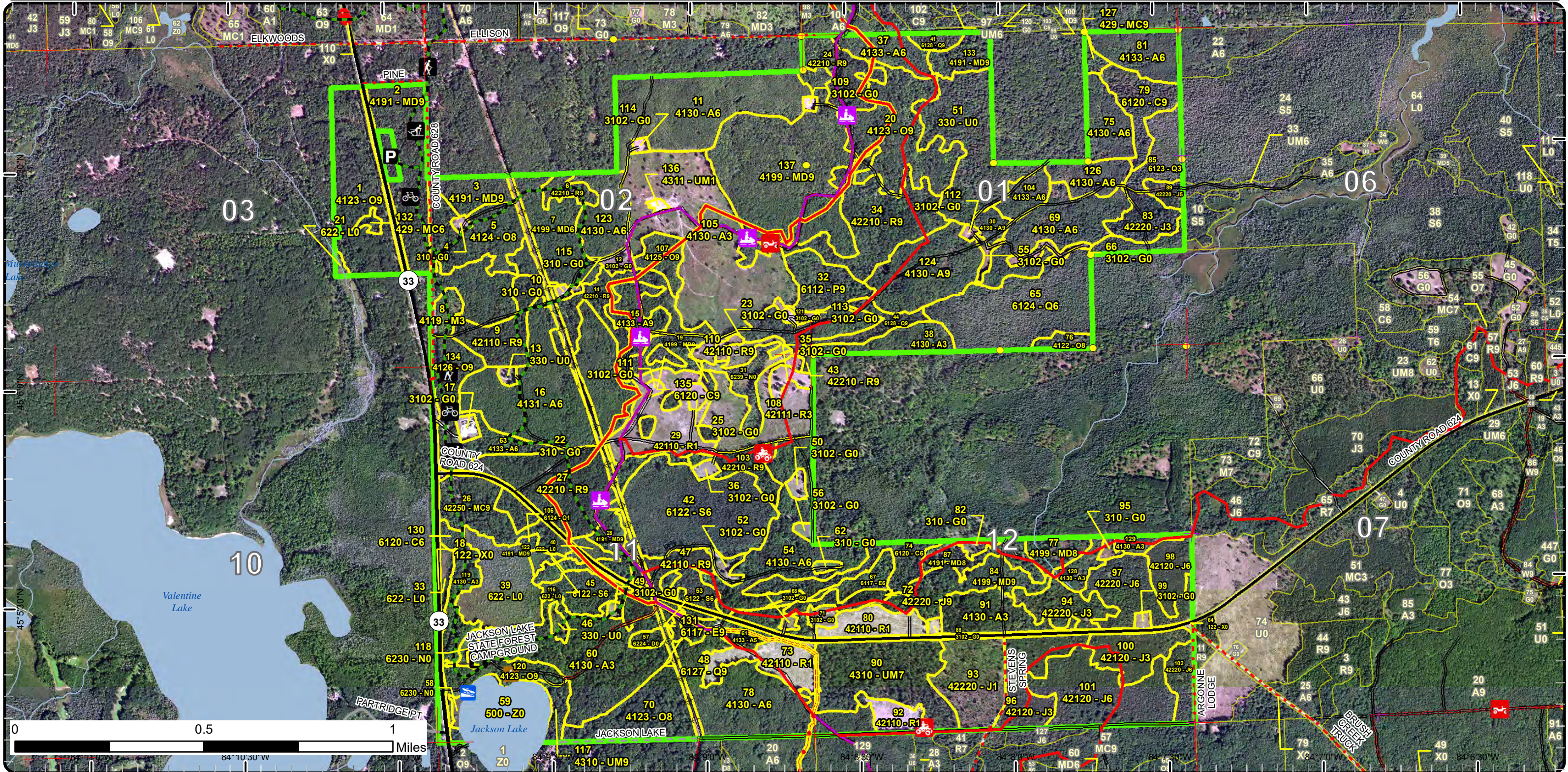


Stand Boundary Map

Compartment: 39
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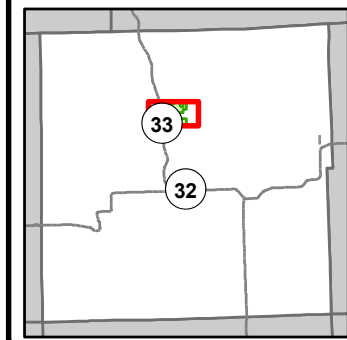


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- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
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- 🚲 Bike Trails
- 🏂 Ski Trails
- 🚙 ORV Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
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- 🚽 Toilet
- 🚤 Boating Access Site
- 🏕️ Campground
- P Parking Lot
- 🛑 Sign
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- Intermittent Stream
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- Lakes and Rivers
- Pipeline
- Powerline
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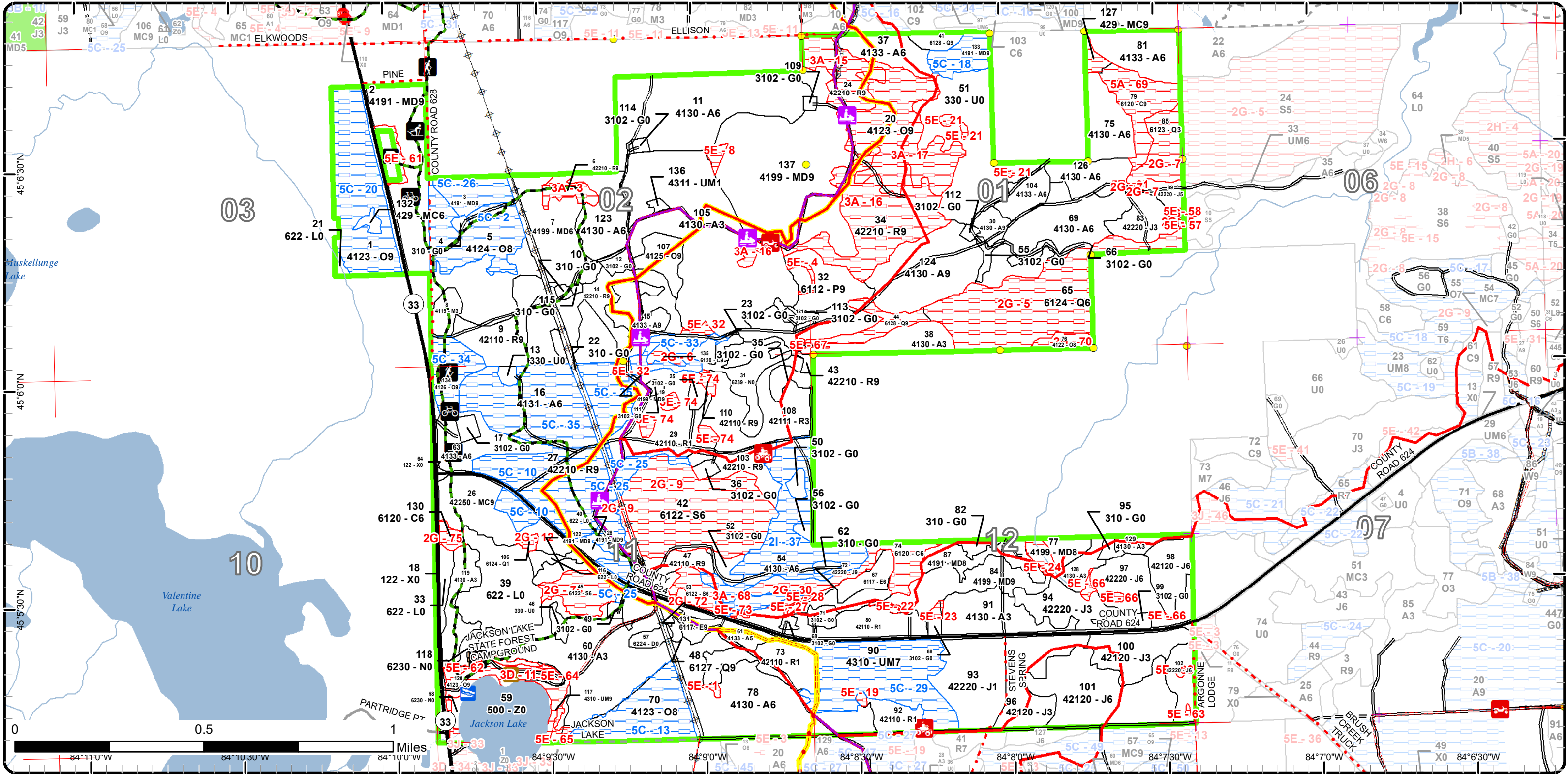


Special Conservation Areas

Compartment: 39
 T31N, R02E, Sec. 1-3, 11, 12
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2024
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- 🚽 Toilet
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- 🏕️ Campground
- P Parking Lot
- STOP Sign
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary



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	184	0	9	124	107	150	0	0	0	0	0	0	0	0	0	0	0	574
Cedar	0	0	0	0	0	0	0	0	0	16	0	2	15	0	2	0	0	0	35
Herbaceous Openland	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Jack Pine	0	11	24	60	39	0	21	9	0	0	6	0	0	0	0	0	0	0	170
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	1	13	0	0	56	0	0	0	4	8	0	0	0	0	82
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	6	53	11	0	0	0	0	0	0	0	69
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	23	0	73	0	0	27	4	104	0	0	0	0	0	0	230
Natural Mixed Pines	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	21
Northern Hardwood	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Oak	0	0	0	0	0	0	0	8	0	0	43	114	0	0	0	0	0	0	164
Red Pine	0	91	0	0	0	0	0	12	93	1	0	0	0	0	0	60	0	0	256
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	1	0	0	0	0	0	0	0	40	5	0	0	0	0	0	0	0	46
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Total	210	287	29	69	189	120	244	44	178	137	77	220	19	8	2	60	0	0	1888



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 39

Total Compartment Acres: 1,886

Commercial Harvest - 427
 Harvests with Site Condition - 40
 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	243	0	0	0	0	0	0	0	0	243
Jack Pine	44	0	0	0	0	0	0	0	0	44
Low-Density Trees	0	0	0	0	39	0	0	0	0	39
Lowland Aspen/Balsam Poplar	12	0	0	0	0	0	0	0	0	12
Lowland Deciduous	6	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	28	0	0	0	0	47	0	0	0	75
Red Pine	48	0	0	0	0	0	0	0	0	48
Total	381	0	0	0	39	47	0	0	0	467

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	467	0	0	0	0	0	0	23	0	490
Next Step	0	183	80	0	39	183	439	64	0	989
Total	467	183	80	0	39	183	439	64	23	1479



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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Proposed Treatments:

12	54039012-3- New	0.0	3102 - Grass	Nonstocked			Unspecified	ERROR	Unspecified		No
<p><u>Prescription</u></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 /2023</p>											

Approved Treatments:

2	54039002-CT	46.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	101	111- 140	Harvest	Crown Thinning	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove aspen and maple. Crop tree release red oak to 80-90 BA, where ever species removal alone will leave BA at 100 or above. Use</p> <p><u>Specs:</u> standard trail specs. Leave 3-10% of stand area as retention, near MDOT rest area.</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 /2015</p>											
9	54039009-Cut	18.0	42110 - Planted Red Pine	Sawtimber Well	77	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Plant to red pine.</p> <p>Protect all legacy oak.</p> <p>Include low stump and chip specs.</p> <p>Include specs for protecting recreation trails and their users.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release;</p> <p><u>Treatments:</u> Other, Pre-Commercial Thinning - Hand; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Acceptable regeneration is a fully stocked stand of red pine with minor components of other native tree species.</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 /2023</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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12	54039012-NF	2.7	3102 - Grass	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, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

13	54039013-NF	1.4	330 - Low-Density Trees	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, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

14	54039014-Cut	20.5	42210 - Natural Red Pine	Sawtimber Well	77 111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:
Plant to red pine.
Protect all legacy oak.
Include low stump and chip specs.
Include specs for protecting recreation trails and their users.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;
Treatments: Other, Pre-Commercial Thinning - Hand; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Acceptable regeneration is a fully stocked stand of red pine with minor components of other native tree species.
Regen:

Other Place retention in the 2 legs at the south end of the stand to square up the harvest (This is already mapped out of the treatment).
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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15	54039015-Cut	10.1	4133 - Aspen, Mixed Pine	Sawtimber Well	55	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear-cut.

Specs:

Plant to red pine.

There will be not retention due to the small size of the stand and the follow-up planting of red pine.

Include specs for protecting recreation trails and their users.

Include low stump and chip specs.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;
Treatments: Other, Pre-Commercial Thinning - Hand; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a fully stocked stand of red pine with minor components of other native tree species.

Other Comment: This 10.1 acres is being added to the adjacent cuts for the efficient planting of red pine.

Site Condition

Proposed Start Date: 10/1 /2023

16	54039016-Cut	15.7	4131 - Aspen, Oak	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Plant to red pine.

Include specs for protecting recreation trails and their users.

Include low stump and chip specs.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;
Treatments: Other, Pre-Commercial Thinning - Hand; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a fully stocked stand of red pine with minor components of other native tree species.

Other Comment: This 15.7 acres is being added to the adjacent cuts for the efficient planting of red pine.

Site Condition

Proposed Start Date: 10/1 /2023

23	54039023-NF	1.5	3102 - Grass	Nonstocked		Immature	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, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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25	54039025-NF	1.8	3102 - Grass	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, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

32	54039032-Cut	11.6	6112 - Lowland Aspen	Sawtimber Well	61 51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Retain cedar pocket and its surrounding edge at the west edge of the stand. Include the legacy pine to the northeast of the cedar pocket in the retention.

Protect seep area north and central to the stand and any other seeps found during timber sale prep.

Include proper grouse spec.

Include sale specs to protect recreation trails and their users.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any medium to well stocked mix of aspen, red maple, balsam fir, spruce, paper birch, and/or white pine.

Regen:

Other The presence of wet areas may cause this treatment to be substantially smaller in size.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

35	54039035-NF	3.9	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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36	54039036-NF	1.6	3102 - Grass	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, herbicide, or other agriculture practices.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

38	54039038-CCR	23.5	4130 - Aspen	Sapling Well	2	Immature	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Leave 3-10% of stand area as retention. Paint a 1 chain buffer along adjoining cedar stands to reduce windthrow. Use 2 inch spec for maple and fir. Do not cut white pine or white oak, if present. Use standard trail specs. Stumps within 5 feet of recreation trail must be either cut flush with ground or 5 feet above ground.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Delayed start date due to potential green up issue. Old next step comments: Acceptable regeneration is any combination of oak, fir, pine, red maple or aspen resulting in a medium or well stocked stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2016

60	54039048-CCR	41.1	4130 - Aspen	Sapling Well	3	Immature	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
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Prescription Leave 3-10% of stand area as retention, adjacent to Jackson Lake Campground. Do not cut white pine or white oak, if present. Use standard trail specs. Protect white pine regeneration during harvest.
Specs:

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

Acceptable Acceptable regeneration is any combination of oak, pine, red maple and aspen resulting in a medium or well stocked stand.
Regen:

Other Old next step comments: Acceptable regeneration is any combination of oak, pine, red maple and aspen resulting in a medium or well stocked stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2015



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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
50 54039050-NF	2.0	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p><u>Next Step 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 /2023</p>										
51 54039051-SheltR	38.9	330 - Low-Density Trees	Nonstocked		Immature	Harvest	Shelterwood with Retention	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
<p><u>Prescription Specs:</u> Shelterwood mix of red pine, white pine and oak using average tree height spacing. Favor leaving large diameter stems. Harvest most tops, encourage scarification during harvest. Leave 3-10% of stand area as retention, including aspen and maple. Use standard trail specs. Stumps within 5 feet of recreation trail must be either cut flush with ground or 5 feet above ground.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Pesticide, (Inactive)Skidder/Mechanical; Burn, Understory</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a medium to well stocked stand consisting primarily of red pine, white pine and oak.</p> <p><u>Other Comment:</u> Old next step comments: Burn, herbicide and/or scarify as needed to prepare seedbed and reduce excessive competition from maple or aspen. Acceptable regeneration is a medium to well stocked stand consisting primarily of red pine, white pine and oak.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										
52 54039052-NF	3.0	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</p> <p><u>Next Step 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 /2023</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
54 54039054-Cut	39.6	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Do not cut any white pine or white oak for the promotion of future stand diversity. Mark the pocket of legacy pine in SW corner out of the sale. Mark legacy, red pine, white pine, and oak for retention. A few white pine will need to be cut for maneuverability, mark to cut. Protect oak and pine regeneration. Include the grouse log spec. Include sale specs for protecting the recreation trails and their users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, balsam fir, oak, and/or white pine.</p> <p><u>Other Comment:</u> A couple white pine will need to be cut for operational maneuverability; mark to cut. Be sure to harvest all trees along the north edge of the stand for opening up the planted red pine in the stand to the north to sunlight.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
55 54039055-NF	2.1	3102 - Grass	Nonstocked		Unspec ified	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, herbicide, 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 /2023</p>										
60 54039060-Cut	17.1	4130 - Aspen	Sapling Well	3	Immature	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Variance To: Clear-cut with retention. Retention will likely be greater than 10 percent due to retention needed along the Jackson Lake shoreline, and retention needed to address visual concerns. Protect all pine and oak regeneration to promote future stand diversity. This variance is being proposed due to the approved treatment not being compatible with the actual stand composition.</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 Regen:</u> Acceptable regeneration is a mix of aspen, white pine, oak, and red maple.</p> <p><u>Other Comment:</u> Use trail protection specs and possibly place educational materials in campground during harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 8 /21/2017</p>										



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
61	54039061-Cut	13.4	4133 - Aspen, Mixed Pine	Poletimber Medium	47	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Retain any legacy oak or pine present. Include the grouse log spec. Include sale specs for protecting the recreation trails and their users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any mix of medium to well stocked aspen, red maple, white pine, and/or oak.</p> <p><u>Other Comment:</u> Retention has already been marked out of the sale. Additional retention could be marked out east of the oil well. Do not leave trees along the edges of adjacent planted stands.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
66	54039066-NF	3.3	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, herbicide, 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 /2023</p>											
67	54039067-CCR	6.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	6130 - Fir, Aspen, Maple	Even-Aged	No
<p><u>Prescription</u> Leave 3-10% of stand area as retention. Retention should be representative of what is being harvested and not simply a lowland brush inholding. Leave all red pine, white pine and cedar.</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 Regen:</u> Acceptable regeneration is a medium to well stocked stand of red maple, spruce, fir or aspen.</p> <p><u>Other Comment:</u> It may not be possible to harvest portions of this stand lying south or southwest of stand 62, due to them being too shrubby, wet, or scarce of volume. This treatment will likely fall of prescribed acreage by more than 25%, due to wet conditions. Fall leaf-off conditions recommended for sale set-up. Old next step comments: Acceptable regeneration is a medium to well stocked stand of red maple, spruce, fir or aspen.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</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
72 54039072-CCR	5.0	42220 - Natural Jack Pine	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	42220 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Leave 3-10% of stand area as retention. Chip tops. Use standard trail specs. Stumps within 5 feet of recreation trail must be either cut flush with ground or 5 feet above ground.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Aerial</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any combination of pine, maple spruce and fir resulting in a medium or well stocked stand. Plant jack pine if natural regeneration fails.</p> <p><u>Other Comment:</u> Old next step comments: Acceptable regeneration is any combination of pine, maple spruce and fir resulting in a medium or well stocked stand. Use standard trail specs. Plant jack pine if natural regeneration fails.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										
83 54039083-CCR	5.2	42220 - Natural Jack Pine	Sapling Well	3	Immature	Harvest	Clearcut with Retention	4311 - Pine, Aspen Mix	Even-Aged	No
<p><u>Prescription</u> Leave 3-10% of stand area as retention. Chip most tops. Okay to manage with stand 86.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Aerial</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is a medium to well stocked stand of mixed pine, spruce and aspen. If natural regeneration fails, plant jack pine.</p> <p><u>Other Comment:</u> Old next step comments: Acceptable regeneration is a medium to well stocked stand of mixed pine, spruce and aspen. If natural regeneration fails, plant jack pine.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										
84 54039084-Cut	18.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	102	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Place retention around large crowned oak while making the retention stand representative.</p> <p>Retain legacy trees if and where they exist.</p> <p>Protect the oak and pine regeneration to promote future stand diversity.</p> <p>Include the grouse log spec.</p> <p>Include sale specs for protecting the recreation trails and their users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, oak, red maple, white pine, and jack pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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83	54039086-CCR	5.7	42220 - Natural Jack Pine	Sapling Well	3	Immature	Harvest	Clearcut with Retention	42320 - Upland Spruce	Even-Aged	No
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Prescription Leave 3-10% of stand area as retention. Chip most tops. Okay to manage with stand 83.

Specs:

Next Step Treatments: Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Aerial

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of mixed pine, spruce and aspen. If natural regeneration fails, plant jack pine.

Other Comment: Old next step comments: Acceptable regeneration is a medium to well stocked stand of mixed pine, spruce and aspen. If natural regeneration fails, plant jack pine.

Site Condition

Proposed Start Date: 10/1 /2015

87	54039087-CCR	9.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	102	1-50	Harvest	Clearcut with Retention	4123 - Red Oak	Even-Aged	No
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Prescription Leave 3-10% of stand area as retention, adjacent to drainage. Use standard trail specs. Stumps within 5 feet of recreation trail must be either cut flush with ground or 5 feet above ground.

Specs:

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Acceptable regeneration is any combination of oak, aspen, pine and red maple resulting in a medium or well stocked stand.

Regen:

Other Comment: Old next step comments: Acceptable regeneration is any combination of oak, aspen, pine and red maple resulting in a medium or well stocked stand.

Site Condition

Proposed Start Date: 10/1 /2015

91	54039091-CCR	17.1	4130 - Aspen	Sapling Well	3	Immature	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Leave 3-10% of stand area as retention. Use standard trail specs.

Specs:

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Acceptable regeneration is any combination of oak, aspen, pine and red maple resulting in a medium or well stocked stand.

Regen:

Other Comment: Old next step comments: Acceptable regeneration is any combination of aspen, oak, pine and red maple resulting in a medium or well stocked stand.

Site Condition

Proposed Start Date: 10/1 /2015



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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
97 54039097-CCR	19.5	42220 - Natural Jack Pine	Poletimber Well	55		Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Leave 3-10% of stand area as retention. Chip tops. Use standard trail specs, if needed. <u>Specs:</u> Variance approved 11/20/18. Allowing natural regeneration instead of planting jack pine. <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable Regen:</u> Medium to well stocked stand of natural jack pine with deciduous components. If natural regen fails plant to red pine. <u>Other Comment:</u> Delay 5 years due to potential green-up conflict. Old next step comments: Plant jack pine. Acceptable regeneration is a medium to well stocked stand of jack pine, predominately unsuppressed by deciduous regeneration. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2018</p>										
102 54039102-CCR	8.2	42220 - Natural Jack Pine	Poletimber Well	60		Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Leave 3-10% of stand area as retention. Chip tops. <u>Specs:</u> Variance approved 11/20/18. Allow natural regeneration instead of planting jack pine. <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable Regen:</u> Medium to well stocked jack pine with deciduous components. If natural regen fails then plant to red pine. <u>Other Comment:</u> Delay 5 years due to potential green-up conflict. Old next step comments: Burn, herbicide and/or scarify to reduce deciduous competition with jack pine seedlings Plant jack pine. Acceptable regeneration is a medium to well stocked stand of jack pine, predominately unsuppressed by deciduous regeneration. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2018</p>										
103 54039103-Cut	9.8	42210 - Natural Red Pine	Sawtimber Well	75	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of red maple, oak, aspen, jack pine, white pine, and/or red pine. <u>Other Comment:</u> Retention is not necessary due to the small size of the stand. Include the 1 acre aspen inclusion pocket north of the wildlife opening in the harvest. Be sure to harvest all trees along the north edge of the stand for opening up the planted red pine in the stand to the north to sunlight. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</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
124 54039124-Cut	82.3	4130 - Aspen	Sawtimber Well	59	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> Protect pine and oak regeneration. Protect any legacy trees if and where present. Include proper grouse/hare spec. Include sale specs to protect recreation trails and their users. <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, oak, red maple, balsam fir, white pine, jack pine, black cherry, and/or red pine.</p> <p><u>Other Comment:</u> Consult with the archeologist for possible conflicts with historical sites.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 507

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 39
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
574	482	90	2

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions								
					2I	5C	2G	2H	3A	3D	5A	5E	
574	482	90	2	Aspen	40	50			0				2
36	0	0	35	Cedar			20				15		0
60	60	0	0	Herbaceous Openland		0							
169	167	0	2	Jack Pine									2
43	42	0	1	Low-Density Trees									1
15	14	0	1	Lowland Aspen/Balsam Poplar									1
81	6	0	75	Lowland Conifers			74						1
8	8	0	0	Lowland Deciduous									0
35	35	0	0	Lowland Shrub									
69	0	0	69	Lowland Spruce/Fir			69						
14	14	0	0	Marsh									0
230	181	41	8	Mixed Upland Deciduous		41							8
21	21	0	0	Natural Mixed Pines									
5	5	0	0	Northern Hardwood									
164	9	98	57	Oak		98		3	40	10			4
255	152	37	67	Red Pine		37			59				7
3	3	0	0	Treed Bog									
4	2	0	2	Upland Conifers							2		
46	2	40	4	Upland Mixed Forest		40				3			1
31	31	0	0	Urban									0
23	23	0	0	Water									
1,886	1,256	305	325	Total Forested Acres	40	266	163	3	100	13	17		28
	67%	16%	17%	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	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Retention for Sale No. 54-039-14-01; Sale Name: Blind Squirrel							

Report 4 – Site Conditions

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Dale Parris : Examiner

Compartment: 39
Year of Entry: 2024

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Shelterwooded in 1996. In process of regeneration.							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A proposal is being made to make this part of an ERA.							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for the stand to the east.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3D: Recreational / Scenic values	13	3J: Water quality / BMPs (stream, river, or lake)	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments: Jackson Lake, Jackson Lake Campground and M-33 travel corridor.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak management on medium quality oak site per June 2000 MDNR Oak Guidance. Repeatedly thin to 90 BA until the DBH reaches 16 inches. Then shelter-wood.							

Report 4 – Site Conditions

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Compartment: 39
Year of Entry: 2024

14	Unavailable	1A: Federal/State/Local Law	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A proposal is being made to make this part of an ERA.							
16	Unavailable	3A: Conservation Values incompatible with harvest at this time	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A proposal is being made to make this part of an ERA.							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A proposal is being made to make this part of an ERA.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Sale No. 54-039-14-01; Sale Name: Blind Squirrel							

Report 4 – Site Conditions

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Compartment: 39
Year of Entry: 2024

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Timber Sale No.: 54-015-17-01; Timber Sale Name: Jackson Lake Mix							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for Sale No. 54-039-14-01; Sale Name: Blind Squirrel							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 39
Year of Entry: 2024

27	Unavailable	5E: Long-Term Retention	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
This is long term retention for the planned harvest to the north.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 39
Year of Entry: 2024

33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	2I: Survey needed	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Further investigation of records/on the ground is needed to determine whether a survey is necessary.							
57	Unavailable	5E: Long-Term Retention	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	5E: Long-Term Retention	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 39
Year of Entry: 2024

61	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long-term retention from Timber Sale No.: 54-015-17; Sale Name: Jackson Lake Mix							
62	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	3G: Other Influence zones - See comments	3D: Recreational / Scenic values	Unspecified
Comments: Jackson Lake, Jackson Lake Campground and M-33 travel corridor. This is long-term retention from Timber Sale No.: 54-015-17; Sale Name: Jackson Lake Mix							
63	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
64	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	3G: Other Influence zones - See comments	3D: Recreational / Scenic values	Unspecified
Comments: Jackson Lake, Jackson Lake Campground and M-33 travel corridor. This is long-term retention from Timber Sale No.: 54-015-17; Sale Name: Jackson Lake Mix							
65	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	3G: Other Influence zones - See comments	3D: Recreational / Scenic values	Unspecified
Comments: Jackson Lake, Jackson Lake Campground and M-33 travel corridor. This is long-term retention from Timber Sale No.: 54-015-17; Sale Name: Jackson Lake Mix							
66	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Timber Sale No.: 54-015-17-01; Timber Sale Name: Jackson Lake Mix							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 39
Year of Entry: 2024

68	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
69	Unavailable	5A: Not able to obtain desirable regeneration	17	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:							
70	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
72	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
73	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is marked out to be long term retention for the harvest to the south and east.							
74	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale Name: Compartment 39 RPP; Timber Sale No: 54-043-09-01							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 39
Year of Entry: 2024

75	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
76	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	4123 - Red Oak	Sawtimber Well	37.7	101	51-80	N/A	This stand had an aspen/red maple species removal harvest that resulted in a two age stand. The second growth has been shaded out and are stunted due to lack of sunlight. The retained BA is highly variable, and highest (50-80) in the southern half of the stand. Retained BA is less than 50 in the northern half of the stand. All trees with a merchantable stick were harvested from this stand with the exception of oak, red pine, white pine, and cedar in Timber Sale Name: Roadside Park Block; Sale No: 54-001-90-01 that was closed out in July of 1991.																																																									
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2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	51.3	101	111-140	N/A	2024 YOE Inventory BA Measurements: (120, 130, 120, 110). The aspen occur in pockets. Red pine and white pine tend to occur in pockets also. This stand is part of Timber Sale Name: Jackson Lake Mix; Timber Sale Number: 54-0151-017-01 and has been prescribed for a thinning to 80-90 BA with a removal of aspen and red maple.																																																									
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3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.0	85	51-80	N/A	The black/red oak are concentrated to the west with white oak found evenly throughout. The white pine are more dense to the west but are present throughout.																																																									
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4	310 - Herbaceous Openland	Nonstocked	1.0				Well Pad Site Riverside Energy Michigan, LLC (989) 705-7665 State Briley C1-2 Permit No: 55605 MPSC No: 10258																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
5	4124 - Red with White Oak	Sawtimber Medium	24.4	102	1-50	N/A	With the exception of a 3 acre inclusion pocket of pole size aspen/etc in the SE corner of the stand, the aspen, red maple, and pine with a merchantable stick along with most oak under 8 inches DBH were harvested from the southern half of this stand as part of Timber Sale Name: Breakup Shelterwood; Timber Sale No: 54-021-94-01 that was closed out in May of 1997.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	White Pine	1	XLog/Log/Pole	18		Red Maple	Full	10 - 20 feet	Sapling
	White Oak	35	Log	14		Red Pine	Trace	Variable	Sapling
	Red Pine	3	Log/XLog	16		White Oak	Medium	Variable	Sapling
	Red Oak	61	Log	14	102	White Pine	Medium	Variable	Sapling
6	42210 - Natural Red Pine	Sawtimber Well	5.0	146	141-170	N/A	The data on this stand was taken for a smaller area that fits tight to the edge of the natural red pine. The outer edges of this stand that surround the red pine are dominate to higher quality red/black hybrid oak that are older than the surrounding adjacent stands. This outer edge of oak should be maintained to protect the legacy type red pine in this stand. This is very tall and old red pine. This stand is filled with legacy type red pine/white pine.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	White Oak	5	Log	15		Red Maple	Low	Variable	Sapling
	Red Maple	4	Pole/Log	9		White Oak	Low	Variable	Sapling
	White Pine	1	XLog	23		Black/Red (Hybrid) Oak	Low	Variable	Sapling
	Red Oak	5	Log	15		Witch Hazel	Low	5 - 10 feet	Tall Shrub
	Red Pine	85	Log/XLog	17	146	White Pine	Medium	Variable	Sapling
7	4199 - Other Mixed Upland Deciduous	Poletimber Well	22.6	36	1-50	N/A	All trees with a merchantable stick with the exception of white oak were harvested from this stand (from 1984 to 1986) as part of Timber Sale Name: Many Trails Block; Timber Sale Number: 54-031-84-01. The residual white oak are more dense in this stand than they are in the stand to the east. The log sized white oak are highly variable in age, even among oak of similar diameter (somewhere in the range of 68 to 129 years in march of 2022).		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	20	Pole/Sapling	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub
	Bigtooth Aspen	31	Pole/Sapling	6	36	Red Maple	High	Variable	Sapling
	Black/Red (Hybrid) Oak	20	Pole	7	36				
	White Oak	29	Log	12	99				
8	4119 - Mixed Northern Hardwoods	Sapling Well	5.1	15	Immature	N/A	This stand was harvested as part of Timber Sale Name: Finger Pine II; Timber Sale No: 54-012-04-01 that was closed out in July 2008.		
	Canopy Species	% Cover	Size Class	DBH	Age				
	White Oak	10	Sapling	1					
	Black/Red (Hybrid) Oak	5	Sapling	1					
	White Pine	3	Sapling	1					
	Red Pine	2	Sapling	1					
	Jack Pine	2	Sapling	2					
	Red Maple	60	Sapling	1	15				
	Black Cherry	3	Sapling	1					
	Bigtooth Aspen	15	Sapling	2					
9	42110 - Planted Red Pine	Sawtimber Well	18.5	77	111-140	N/A	2024 YOE Inventory BA Measurements: (180, 60, 90, 130, 100, 160, 170, 80, 110, 100, 130, 140). Legacy red oak and white oak are present. This stand was thinned to 120 BA as part of Timber Sale Name: Finger Pine II; Timber Sale No: 54-012-04-01 that was closed out in July		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Oak	10	Log/XLog	16		White Oak	Low	Variable	Sapling
	Red Pine	85	Log	14	77	Black/Red (Hybrid) Oak	Low	Variable	Sapling
	White Oak	5	Log/XLog	16		Red Maple	Full	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	310 - Herbaceous Openland	Nonstocked	0.9				Well Pad Site Riverside Energy Michigan, LLC (989) 705-7665 State Briley 14-2 Permit No: 52109 MPSC No: 8727
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11	4130 - Aspen	Poletimber Well	52.0	37	1-50	N/A	All trees with a merchantable stick were harvested from this stand (from 1984 to 1986) as part of Timber Sale Name: Many Trails Block; Timber Sale Number: 54-031-84-01.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
White Oak		2	Pole/Sapling	7					Red Maple		High	>20 feet	Sapling		
Black/Red (Hybrid) Oak		3	Pole/Sapling	7					White Oak		Medium	Variable	Sapling		
Red Maple		8	Sapling/Pole	4					Black/Red (Hybrid) Oak		Trace	Variable	Sapling		
Bigtooth Aspen		87	Pole	6	37				White Pine		Low	Variable	Sapling		

12	3102 - Grass	Nonstocked	2.7			No	This is a good sized wildlife opening. Pine are seeding in along the edges.
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13	330 - Low-Density Trees	Nonstocked	1.4			No	There is a nice crop of red maple covering about 35% of the stand. A handful of mature white oak and herbaceous openland make up the rest of the stand.
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14	42210 - Natural Red Pine	Sawtimber Well	22.5	77	111-140	N/A	About 1/3 of the red pine were 18 inches plus in DBH during the 2024 YOE Inventory. The red pine are of larger diameter and are more spaced out in the northern half of the stand. The oak are mostly in the northern half of the stand.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
White Oak		11	Log	11					White Oak		Medium	Variable	Sapling		
Bigtooth Aspen		5	Pole/Log	9					Red Maple		High	>20 feet	Sapling		
White Pine		2	Log	15					Black/Red (Hybrid) Oak		Low	Variable	Sapling		
Red Pine		60	Log/XLog	14	77										
Red Maple		10	Log/Pole	12											
Red Oak		12	Log/XLog	16											

15	4133 - Aspen, Mixed Pine	Sawtimber Well	10.1	55	81-110	N/A	This is really nice aspen.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Bigtooth Aspen		66	Log/Pole	11	55				White Oak		Medium	Variable	Sapling		
White Pine		3	Log	17					Red Maple		Full	>20 feet	Sapling		
Black/Red (Hybrid) Oak		1	XLog/Log	18					Black/Red (Hybrid) Oak		Low	Variable	Sapling		
Red Maple		10	Pole/Sapling	5											
Red Pine		20	Log	14											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
16	4131 - Aspen, Oak	Poletimber Well	65.5	55	111-140	N/A	Scattered legacy red pine and white pine are present.																																																													
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17	3102 - Grass	Nonstocked	2.1				Well Pad Site with Processing Facilities Riverside Energy Michigan, LLC (989) 705-7665 State Briley 4-11 Permit No: 51604 MPSC No: 8638																																																													
18	122 - Road/Parking Lot	Nonstocked	14.2			No	M-33																																																													
19	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.3	84	51-80	N/A	This majority of this stand creates a buffer from windthrow for the cedar stand within. There is a 1/2 acre pole sized aspen inclusion pocket in the east end of the stand.																																																													
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20	4123 - Red Oak	Sawtimber Well	39.8	102	111-140	N/A	2024 YOIE Inventory BA Measurements: (120, 150, 100, 140, 150, 120, 150, 70, 80, 190). These are higher quality oak. This stand has very little aspen and trees are older and was therefore separated from the stand to the west. This stand has higher quality oak, high quality habitat, legacy red pine/white pine, and superior mesic soil.																																																													
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21	622 - Lowland Shrub	Nonstocked	1.1	0	Unspecified	No	Canada creek runs through this stand.																																																													



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22	310 - Herbaceous Openland	Nonstocked	14.6		Immature	No	This is a power line opening. An erosion issue is present near west edge of Stand 29. Recreation trails cross the powerline at various points. This stand includes forest road and lowland shrub.																																																							
23	3102 - Grass	Nonstocked	1.6		Immature	No	Wildlife Opening																																																							
24	42210 - Natural Red Pine	Sawtimber Well	15.3	146	81-110	N/A	This is very tall and old red pine. This stand is filled with legacy type red pine and white pine.																																																							
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25	3102 - Grass	Nonstocked	1.8			No	Wildlife Opening																																																							
26	42250 - Pine, Oak	Sawtimber Well	20.9	74	51-80	N/A	2024 YOE Inventory BA Measurements (90, 70, 130, 60, 110, 90, 90). Legacy size oak are present. The previous red pine age was 9 years older. There pockets of aspen to the east and west that regenerated as a result of the 1985 harvest. In April of 1985 Timber Sale Name: E-Z-Out Block; Timber Sale Number: 54-010-84-01 was closed. All trees were harvested with the exception of oak and pine with a merchantable stick.																																																							
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27	42210 - Natural Red Pine	Sawtimber Well	37.0	78	111-140	N/A	2024 YOE Inventory BA Measurements (180, 110, 80, 160, 160, 110, 130, 140, 110, 150, 110). Their is minimal sign/pockets of aspen regen from the 1985 harvest. The red pine have on average 20-25% live crown ratio. In April of 1985 Timber Sale Name: E-Z-Out Block; Timber Sale Number: 54-010-84-01 was closed. All trees were harvested with the exception of oak and pine with a merchantable stick.																																																							
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28	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.2	102	81-110	N/A	This stand has legacy oak, red pine, and white pine scattered throughout. Pole/sapling sized red maple dominate the understory/subcanopy north and west of the forest road that resulted from past management.																																																			
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29	42110 - Planted Red Pine	Sapling Poor	24.9	5	Immature	N/A	This stand was initially planted in 2017 and had a couple replants follow. This stand has been updated from a field evaluation for a project on free to grow red pine. June 2018 survey. Red pine 592 TPA, undesirables 1200 TPA. Need replant. Stand was replanted spring 2019. Regen survey 08/22/19. New stock looks weak, but mortality for the site was only 14%. 894 RP TPA. 90% FTG with RP 2.2 ft tall. Replant 3rd year regen survey on 9/24/21; 801 Surviving TPA ; 3.4' Ave. Height ; 92% FTG; Competition																																																			
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30	4130 - Aspen	Sawtimber Well	4.1	59	81-110	N/A	The half acre wildlife opening at the north edge of the west end of the stand was created in August of 1984 (originally grass).																																																			
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31	6239 - Mixed Emergent Wetland	Nonstocked	10.2			No	This stand is a mix of bog to the south, cattails central, pockets of lowland shrub, pockets of lowland forest and drainage arms that resemble wet meadow.																																																			
32	6112 - Lowland Aspen	Sawtimber Well	14.9	61	51-80	N/A	Cedar pocket to west with a line of legacy pine near the north end; The aspen are present in a wide range of diameters/age classes in relatively equal quantities. An odd mixture of micro-stands. Includes drainage with cedar standing in water. Also, on the west side of the stand, there is an area of pure cedar with spring and seeps at its upslope end. In early spring these flow down through the stand.																																																			
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33	622 - Lowland Shrub	Nonstocked	3.4			No																																																									
34	42210 - Natural Red Pine	Sawtimber Well	39.2	143	111-140	N/A	The west arm of the stand is broken pockets of red pine and white pine some of which are legacy type. red pine to 24"+. white pine to 30".																																																								
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35	3102 - Grass	Nonstocked	3.9			No	Wildlife Opening																																																								
36	3102 - Grass	Nonstocked	1.6			No	This is a managed wildlife opening.																																																								
37	4133 - Aspen, Mixed Pine	Poletimber Well	11.4	37	51-80	N/A	There are a few legacy white pine present. The aspen are doing well.																																																								
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38	4130 - Aspen	Sapling Well	27.0	2	Immature	N/A	The harvest of this stand was completed in May of 2020 as part of Sale Name: Jackson Lake Mix; Sale No: 54-015-17. All white pine and white oak were retained.																																																								
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39	622 - Lowland Shrub	Nonstocked	26.0			No	Lowland shrub, cattail, and emergent wetland. This is a lowland conifer swamp that flooded killing all the trees.																																																								
40	622 - Lowland Shrub	Nonstocked	2.3		Immature	No																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
41	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	3.5	110	Unspecified	N/A	This stand was holding much water when visited. An edge type call was made along the southern edge.																																																				
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42	6122 - Black Spruce	Poletimber Well	52.5	88	51-80	N/A	Nice example of treed sphagnum bog. Black spruce mixed with lowland shrub is more common to the west.																																																				
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43	42210 - Natural Red Pine	Sawtimber Well	1.0	88	81-110	N/A	This area was not harvested with the timber to the north or west. It has become its own separate stand.																																																				
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44	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	7.8	122	Unspecified	N/A	loose stream drainage																																																				
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45	6122 - Black Spruce	Poletimber Well	10.6	94	51-80	N/A	This stand is too wet to harvest. The trees are stunted due to saturated soils.																																																				
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46	330 - Low-Density Trees	Nonstocked	2.1			No	Shrub like cherry, bushy young white pine, and aspen growing in from the sides; very open																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
47	42110 - Planted Red Pine	Sawtimber Well	11.7	66	141-170	N/A	2024 YOE Inventory BA Measurements: (170, 150, 190, 110, 120, 120, 180, 190, 160, 160). The red pine have a 25-30% live crown ratio.																																					
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48	6127 - Lowland Pine	Sawtimber Well	2.2	70	51-80	N/A	The stand is red pine dominate the north and white pine dominate to the south.																																					
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49	3102 - Grass	Nonstocked	1.1			No	Well Pad Site Riverside Energy Michigan, LLC (989) 705-7665 State Briley 11-11 Permit No: 51753 MPSC No: 8641																																					
50	3102 - Grass	Nonstocked	2.0			No	This is a managed wildlife opening.																																					
51	330 - Low-Density Trees	Nonstocked	39.9		Immature	4191 - Mixed Upland Deciduous with Conifer	This stand was harvested as part of Sale Name: Jackson Lake Mix; Sale No: 54-015-17. The treatment implemented read like this: "Shelterwood mix of red pine, white pine and oak using average tree height spacing. Favor leaving large diameter stems. Harvest most tops, encourage scarification during harvest." This stand was harvested in quarters from April 2020 through March 2022. Canopy Trees Retained: Approximately 10% canopy retained red pine, red oak, and white pine: 5% White Pine 21 inch DBH XL 5% Red Pine 20 inch DBH XL, L 5% Red Oak 18 in XL, L Understory Post Harvest: Bigtooth Aspen, high, variable White Pine, Low, variable Balsam Fir, Low variable																																					
52	3102 - Grass	Nonstocked	3.1			No	This is a managed wildlife opening.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
53	6122 - Black Spruce	Poletimber Well	5.7	76	1-50	N/A	Most of the trees are dead. Scattered black spruce throughout the central region of the stand are barely hanging on. All red pine and white pine in the central region of the stand are dead, but are still living at the outer edges. Tree mortality is due to overly saturated soils. Based on past imagery, white pine composed approximately 10 percent of the old living stand. Black spruce are having low to moderate success regenerating in the understory. The forest floor is fully covered by sphagnum moss and leatherleaf.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Log	13	84	Black Spruce		
Red Pine		5	Log	13		Density		
Jack Pine		2	Log/Pole	10		Avg. Height		
Tamarack		3	Pole/Log	8		Size		
Black Spruce		85	Pole	7	76			
54	4130 - Aspen	Poletimber Well	40.0	50	81-110	N/A	This is a combination of 3 different stands; upland red pine/aspen to the north, lowland aspen/fir/red maple central, and upland red maple/red oak to the south. The age of the aspen was estimated due to the various size aspen present. Lowland areas are present in the central region of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		51	Pole/Log	9	50	Red Oak		
Balsam Fir		12	Pole	6		Trace		
Bigtooth Aspen		10	Pole/Log	8	50	White Pine		
Red Pine		5	Log/XLog	16		Trace		
White Pine		1	Pole/Log/XLog	8		Balsam Fir		
Red Oak		5	Log	14		Low		
Red Maple		15	Pole/Log/Sap	8		Trace		
Balsam Poplar		1	Pole/Log	8	50	Variable		
						High		
						>20 feet		
						Sapling		
55	3102 - Grass	Nonstocked	1.9		Unspecified	No	This wildlife opening was created in August of 1984 (originally grass).	
56	3102 - Grass	Nonstocked	1.2			No	This is a managed wildlife opening.	
57	6224 - Treed Bog	Nonstocked	2.5			No	This is a bog with white pine m red pine, and jack oine around the edge.	
58	6230 - Cattail	Nonstocked	1.5			No	Cattail with lowland shrub around the edge	
59	500 - Water	Nonstocked	22.7			No	Jackson Lake	
60	4130 - Aspen	Sapling Well	51.5	3	Immature	N/A	The harvest of this stand was completed in the spring of 2009 as part of Timber Sale Name: Jackson Lake Mix; Timber Sale No: 54-015-17-01. In the northern half of the stand all white oak, white pine, and legacy type red oak were retained.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		5	Sapling	1				
Red Maple		23	Sapling	1	3			
Red Oak		2	XLog/Log	20	97			
Quaking Aspen		40	Sapling	1	3			
Bigtooth Aspen		25	Sapling	1	3			
White Oak		3	Log	16				
White Pine		2	Pole	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
61	4133 - Aspen, Mixed Pine	Poletimber Medium	13.8	47	1-50	N/A	This stand was likely harvested with the stand north of County Road 624 and the stand to the SW. Open grown large crown oak/white pine are present.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Quaking Aspen	50	Pole/Log	9	47	Black Cherry	Low	Variable	Sapling
	White Pine	20	Log/XLog/Pole	14		Black/Red (Hybrid) Oak	Low	Variable	Sapling
	Choke Cherry	5	Sapling/Pole	4		Red Pine	Low	Variable	Sapling
	Red Maple	10	Log	12		Red Maple	Medium	Variable	Sapling
	Red Oak	15	XLog/Log	18	102	White Pine	Low	Variable	Sapling
62	310 - Herbaceous Openland	Nonstocked	1.1			No			
63	4133 - Aspen, Mixed Pine	Poletimber Well	14.2	37	51-80	N/A	This stand was broken out due to its younger age and higher level of tree species diversity. Scattered legacy pine and oak present. The HCP runs through this stand. Beyond the aspen and other pole sized timber, this is an uneven age stand.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Jack Pine	10	Pole/Sapling	6		Red Pine	Low	Variable	Sapling
	White Pine	5	Log/Pole/XLog	12		Black/Red (Hybrid) Oak	Low	Variable	Sapling
	Balsam Fir	2	Pole/Sapling	6		White Oak	Medium	Variable	Sapling
	Red Maple	3	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
	White Oak	2	Log/Pole/XLog	12		Balsam Fir	Low	Variable	Sapling
	Black/Red (Hybrid) Oak	15	Log/XLog	16		White Pine	High	Variable	Sapling
	Red Pine	15	Log/Pole/XLog	13					
	Bigtooth Aspen	48	Pole/Sapling	6	37				
64	122 - Road/Parking Lot	Nonstocked	16.7			No	County Road 624		
65	6124 - Lowland Spruce-Fir	Poletimber Well	53.7	78	Unspecified	N/A	Cedar seemed to be more dominate along the northern edge, and stand became more black spruce dominate the further south into the stand.sphagnum, black muck		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Northern White Cedar	45	Pole	8		Tag Alder	Medium	10 - 20 feet	Tall Shrub
	Black Spruce	45	Pole	7	78				
	Balsam Fir	10	Pole	7					
66	3102 - Grass	Nonstocked	3.3			No	This wildlife opening was created in August of 1984 (originally grass).		
67	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	6.4	90	51-80	N/A	ash mostly dead.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	40	Log/Pole	11	90	Tag Alder	Low	10 - 20 feet	Tall Shrub
	Balsam Fir	30	Pole/Log	8		Balsam Fir	High	Variable	Sapling
	Quaking Aspen	30	Pole	8		Red Maple	Low	Variable	Sapling
68	3102 - Grass	Nonstocked	1.0			No	Well Pad SiteRiverside Energy Michigan, LLC(989) 705-7665State Briley 9-11Permit No: 51755MPSC No: 8642		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
69	4130 - Aspen	Poletimber Well	29.8	49	81-110	N/A	This is your average aspen stand with some pine and minimal oak mixed in. The age of the aspen is somewhat variable throughout the stand.																																																								
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70	4123 - Red Oak	Sawtimber Medium	24.5	97	81-110	N/A	All trees with a merchantable stick, with the exception of oak over 8 inches in DBH and red pine, were harvested from this stand via Timber Sale Name: Jackson Triangle; Sale No: 54-011-94-01 that closed in December of 1994.																																																								
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71	3102 - Grass	Nonstocked	2.6		Immature	No	This is a wildlife opening.																																																								
72	42220 - Natural Jack Pine	Sawtimber Well	5.7	90	81-110	N/A	This stand is part of a larger timber sale and should be harvested in the near future.																																																								
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73	42110 - Planted Red Pine	Sapling Poor	15.6	6	Immature	N/A	The planted red pine were 3-4 feet tall on average at the time of the 2024 YOE Inventory. This stand was planted to red pine on 4/23/16. Herbicide 9/9/2015 Trench 10/7/2015 Initial Plant 4/23/16 at 998 RP/ac Year 1 Survey on 6/27/17: 779 RP/ac 1010/ac Competition Year 3 Survey on 10/18/18: 928 RP/ac Very well stocked stand																																																								
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74	6120 - Lowland Cedar	Poletimber Well	16.3	87		N/A	This stand has been expanded to include the drainage to the west. The age was taken where the cedar are stunted in the northeast. Larger log sized cedar occur in pockets.																																																					
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75	4130 - Aspen	Poletimber Well	14.2	35	1-50	N/A	In March of 1987 all trees with a merchantable stick with the exception of white oak were harvested (some white oak were cut with some red oak being left to compensate for it.) as part of Timber Sale Name: Cross Crik Block; Timber Sale Number: 54-061-86-01.																																																					
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76	4122 - Oak, Pine	Sawtimber Medium	3.8	95	51-80	N/A	Looks like oak, red pine, possibly some aspen.																																																					
77	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	7.4	102	51-80	N/A	The trees in this stand are fairly spaced out with pockets of field like areas.																																																					
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78	4130 - Aspen	Poletimber Well	44.7	47	81-110	N/A	Some larger log sized oak, red maple, and red pine that were retained during the last harvest are scattered throughout the stand. This is a healthy stand dominate to aspen. The aspen in the western half of the stand are somewhat smaller in diameter. Scattered red pine add diversity to the stand. The oak are of high quality and have grown vigorously to keep up with the aspen.																																																					
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79	6120 - Lowland Cedar	Sawtimber Well	15.2	113	Unspecified	N/A	The stand is pole size balsam fir/spruce dominate at the north end, cedar dominate centrally, and balsam fir dominate in the south. A narrow 2-4 foot wide stream flows to the southeast through this stand.																																																					
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80	42110 - Planted Red Pine	Sapling Poor	11.3	6	Immature	N/A	A walk through was completed in August of 2022 and the health of the planted stock looked good. The trees are mostly free to grow. The red pine are doing well. The planted red pine were 4-6 feet tall on average and more competition to the eastern half of the stand at the time of the 2024 YOE Inventory. This stand was planted to red pine on 4/23/16. Year 3 regen survey: 858 RP/ac																																																											
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81	4133 - Aspen, Mixed Pine	Poletimber Well	16.1	35	51-80	N/A	There is bigtooth aspen to the west and quaking aspen to the east; both are of poor quality with the quaking aspen being worse off. In March of 1987 all trees with a merchantable stick with the exception of white oak were harvested (some white oak were cut with some red oak being left to compensate for it.) as part of Timber Sale Name: Cross Crik Block; Timber Sale Number: 54-061-86-01.																																																											
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82	310 - Herbaceous Openland	Nonstocked	2.0			No	Low density trees; Grass																																																											
83	42220 - Natural Jack Pine	Sapling Well	10.9	3	Immature	N/A	The regeneration of this stand to jack pine was a success. There is a nice green carpet of jack pine regeneration present.																																																											
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84	4199 - Other Mixed Upland Deciduous	Sawtimber Well	20.1	102	51-80	N/A	Oak is more dominate to the west and aspen is more dominate to the east.																																																											
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85	6123 - Lowland Fir	Sapling Well	12.6	46	1-50	N/A	This stand is too wet to harvest/has stunted trees and is unproductive for growing timber. A narrow 2-4 foot wide stream flows to the southeast through this stand. A loop was made through the center of the stand. It was found that the stand was deaminate to sapling sized balsam fir, with scattered sapling/pole/log black spruce making up the second most dominate component. A residual tree cut was completed in the southern 8 acres of this stand in February of 1984 for the purpose of supporting whitetail deer.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 10.5 102 1-50 N/A This stand of timber has been sold and should be harvested in the near future.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log	12		Red Pine	Trace	Variable	Sapling
Bigtooth Aspen	5	Pole/Log	8		White Pine	Trace	Variable	Sapling
Red Pine	10	XLog/Log	20		Red Maple	Low	Variable	Sapling
Black Cherry	2	Pole	6		Jack Pine	Low	Variable	Sapling
Red Oak	47	Log	15	102	Beech	Trace	Variable	Sapling
Balsam Fir	5	Pole	6		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
White Pine	1	Log/Pole	11		Black Cherry	Low	Variable	Tall Shrub
Jack Pine	10	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
					White Oak	Low	Variable	Sapling

88 3102 - Grass Nonstocked 1.0 Well Pad Site
Riverside Energy Michigan, LLC
(989) 705-7665
State Briley 11-12
Permit No: 51751
MPSC No: 5639

89 42220 - Natural Jack Pine Poletimber Medium 3.8 30 1-50 N/A This is open grown bushy pine.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	70	Pole/Sapling	6	30
White Pine	25	Pole/Sapling	5	
Red Pine	5	Sapling	1	

All white pine and red pine sawlog trees were likely harvested from this stand in October of 1984 as part of Timber Sale Number 54-076-83-02.

90 4310 - Pine, Oak Mix Sawtimber Poor 40.1 84 1-50 N/A This stand was borderline between a sapling stand and a log stand at the time of the 2024 YOE Inventory. Future management will likely focus on the younger age class. The younger age class is diverse with aspen, jack pine, and oak often occurring in pockets of dominance.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	50	XLog/Log	20		Jack Pine	Medium	Variable	Sapling
Red Pine	50	Log/XLog	16	84	Red Maple	Medium	Variable	Sapling
					Bigtooth Aspen	Medium	>20 feet	Sapling
					Red Pine	Low	Variable	Sapling
					Black/Red (Hybrid) Oak	Medium	Variable	Sapling

In Timber Sale Name: Hoosier's Holiday Sale; Sale No: 54-002-94-01; closed out in September 1995, all trees with a merchantable stick, with the exception of oak and red pine, were harvested from this stand. Understory during the 2024 YOE Inventory:
40% BT 4 in
10% RP 2 in
20% JP 3 in
20% MO 2 in
10% RM 2 in

91 4130 - Aspen Sapling Well 17.1 3 Immature N/A The oak regeneration is heavily browsed. The amount of oak that will recruit to the eventual overstory is uncertain. A natural regeneration check was completed during the 2024 YOE Inventory. The natural regeneration was determined to be successful based upon what was agreed to through the 2014 Compartment Review Process. On 3/24/22 there was about 15 cords of wood that still needed to be hauled and about 1/2 to 1 acre of drags north-central in the stand just west of the landing.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Sapling	1		Oak (spp.)	Medium	5 - 10 feet	Sapling
White Oak	5	Sapling	1		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	90	Sapling	1	3	Cherry (spp.)	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
92	42110 - Planted Red Pine	Sapling Poor	7.4	6	Immature	N/A	The red pine are 3-6 feet tall on average at the time of the 2024 YOE Inventory. This stand was planted to red pine on 4/23/16. Year 3 regen survey: 878 RP/ac	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		100	Sapling	1	6	Red Oak		
						Sweet Fern		
						Pin Cherry		
						Density	Avg. Height	Size
						Trace	5 - 10 feet	Sapling
						Full	< 5 feet	Tall Shrub
						Trace	5 - 10 feet	Sapling
93	42220 - Natural Jack Pine	Sapling Poor	24.3	12	Immature	N/A	This is a nice mixed stand dominated by naturally regenerated jack pine. This stand was harvested as part of Timber Sale Name: Finger Pine II; Timber Sale No: 54-012-04-01 that was closed out in July 2008.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black/Red (Hybrid) Oak		10	Sapling	2				
Red Pine		2	Log/XLog	16	88			
Black Cherry		4	Sapling	1				
Jack Pine		69	Sapling	2	12			
Red Pine		1	Sapling	3				
Black/Red (Hybrid) Oak		1	Log/XLog	16				
White Oak		5	Sapling	2				
Bigtooth Aspen		8	Sapling	1	14			
94	42220 - Natural Jack Pine	Sapling Well	13.0	25	1-50	N/A	All trees with a merchantable stick were harvested from this stand, with the exception of oak and red pine, via Timber Sale Name: First Out Sale; Timber Sale Number: 54-001-94-01; this sale was closed in September of 1995.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		2	Sapling	3				
Jack Pine		68	Sapling/Pole	4	25			
Red Pine		5	Log	12				
Black/Red (Hybrid) Oak		10	Sapling	3				
Black/Red (Hybrid) Oak		15	Log	15				
95	310 - Herbaceous Openland	Nonstocked	1.6			No		
96	42120 - Planted Jack Pine	Sapling Well	20.3	24	Immature	N/A	The planted jack pine are doing well. All trees with a merchantable stick, with the exception of select green marked trees, were harvested from this stand in a sale closed out in August of 1996; Timber Sale Name: Flat Tire; Sale Name: 54-050-94-01.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		89	Sapling/Pole	4	24	Oak (spp.)		
White Oak		1	Sapling	2		Density		
Black/Red (Hybrid) Oak		5	Sapling	2		Avg. Height		
Bigtooth Aspen		5	Sapling/Pole	4		Size		
						Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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97 42220 - Natural Jack Pine Poletimber Well 21.1 55 N/A This timber is set up, sold, and should be harvested in the near future.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	94	Pole/Log	8	55	White Pine	Trace	Variable	Sapling
Red Pine	1	Log	14		Jack Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	1	Log	16		Red Pine	Trace	Variable	Sapling
Balsam Fir	2	Pole	7		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Bigtooth Aspen	2	Log	14					

98 42120 - Planted Jack Pine Poletimber Well 11.3 27 N/A All trees with a merchantable stick were harvested from this stand via Timber Sale Name: First Out Sale; Timber Sale Number: 54-001-94-01; this sale was closed in September of 1995. This stand was subsequently planted to jack pine.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	96	Pole/Sapling	5	27
Black Cherry	2	Sapling/Pole	4	
Black/Red (Hybrid) Oak	2	Sapling/Pole	4	

99 3102 - Grass Nonstocked 1.2 Immature Well Pad SiteRiverside Energy Michigan, LLC(989) 705-7665State Briley 9-12Permit No: 51752MPSC No: 8640

100 42120 - Planted Jack Pine Sapling Well 15.2 25 N/A The planted jack pine are doing well. All trees with a merchantable stick with the exception of red pine were harvested from this stand in a sale closed out in August of 1996; Timber Sale Name: Flat Tire; Sale Name: 54-050-94-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	97	Sapling/Pole	4	25	Oak (spp.)	Low	Variable	Sapling
Black/Red (Hybrid) Oak	1	Sapling	1		Cherry (spp.)	Low	Variable	Tall Shrub
Red Pine	2	Log	12					

101 42120 - Planted Jack Pine Poletimber Well 35.1 36 N/A There are scattered large oak and pole/log red pine along the south-central edge of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Pole/Log	9		White Pine	Low	Variable	Sapling
Jack Pine	96	Pole	6	36	Black Cherry	Low	Variable	Sapling
Black/Red (Hybrid) Oak	3	XLog/Log	18		Black/Red (Hybrid) Oak	Low	Variable	Sapling

102 42220 - Natural Jack Pine Poletimber Well 8.7 60 N/A This jack pine has been set up, sold, and should be harvested in the near future.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Pole	7		White Pine	Trace	Variable	Sapling
Quaking Aspen	5	Pole	7		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Jack Pine	88	Pole	7	60	Red Pine	Trace	Variable	Sapling
Red Pine	1	Log	12		Jack Pine	Medium	Variable	Sapling
White Pine	1	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
103	42210 - Natural Red Pine	Sawtimber Well	9.8	75	111-140	N/A	YOE 2024 Inventory measurements: (160, 180, 120, 160 ,80 ,120 ,90, 110). There is a 1 acre aspen inclusion pocket north of the wildlife opening that has been included in the stand.																																												
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104	4133 - Aspen, Mixed Pine	Poletimber Well	7.6	47	51-80	N/A	This is very poor quality quaking aspen with conks and signs of rot.																																												
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105	4130 - Aspen	Sapling Well	77.1	9	Immature	N/A	The harvest of this stand was completed in December of 2013 as part of Timber Sale Name: Detroit Lubricator Aspen; Timber Sale No.: 54-042-10-01. Large oak, red pine, and white pine were left as residuals during harvest.																																												
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107	4125 - Black, N. Pin Oak	Sawtimber Well	8.1	64	81-110	N/A	This is a medium quality oak stand. There are some older larger diameter oak along the west and north edges of the stand that were not harvested when the larger body of this stand was harvested.																																												
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White Oak	Low	Variable	Sapling																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
108	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	31.5	9	Immature	N/A	Red pine planted in 2013. During the 2024 YOE Inventory the red pine were averaging around 10 feet tall. This stand has been updated from a field evaluation for a project on free to grow red pine. Pre-commercial thinning completed on 7/7/21																																													
<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>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	1		Black Cherry	30	Sapling	1																															
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Black Cherry	30	Sapling	1																																																	
109	3102 - Grass	Nonstocked	0.9	0			Well Pad Site Riverside Energy Michigan, LLC (989) 705-7665 State Briley 5-1 Permit No: 51929 MPSC No: 8745																																													
110	42110 - Planted Red Pine	Sawtimber Well	4.7	73	141-170	N/A	This is long term retention from Timber Sale Name: Compartment 39 RPP; Timber Sale No: 54-043-09-01																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> <td>Red Maple</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log/XLog</td> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red Pine</td> <td>94</td> <td>Log</td> <td>15</td> <td>73</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	2	Pole/Log	8		Red Maple	High	Variable	Sapling	White Pine	2	Log/XLog	16						Red Maple	2	Pole/Log	8						Red Pine	94	Log	15	73				
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111	3102 - Grass	Nonstocked	0.9				Well Pad Site Riverside Energy Michigan, LLC (989) 705-7665 State Briley 2-11 Permit No: 51756 MPSC No: 8643																																													
112	3102 - Grass	Nonstocked	0.9				Well Pad Site Riverside Energy Michigan, LLC (989) 705-7665 State Briley 11-1 Permit No: 52107 MPSC No: 8726																																													
113	3102 - Grass	Nonstocked	1.6		Unspecified	No	This wildlife opening was created in August of 1984 (originally grass).																																													
114	3102 - Grass	Nonstocked	1.0	0			Well Pad Site Riverside Energy Michigan, LLC (989) 705-7665 State Briley 7-2 Permit No: 52056 MPSC No:																																													
115	310 - Herbaceous Openland	Nonstocked	0.5		Immature	No	This is a wildlife opening adjacent to a gas well pad.																																													
116	622 - Lowland Shrub	Nonstocked	2.6		Immature	No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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117 4310 - Pine, Oak Mix Sawtimber Well 5.2 90 81-110 N/A This stand was retained during the timber harvests to the east due to its location on the east shore of Jackson Lake.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	11		White Pine	Medium	Variable	Sapling
Red Oak	25	Log	15	97	Red Maple	Low	Variable	Sapling
Red Pine	30	Log	14	90	Oak (spp.)	Low	Variable	Sapling
Bigtooth Aspen	10	Log	12					
White Pine	20	Log/XLog	16					

118 6230 - Cattail Nonstocked 2.2 Immature No Cattail with lowland shrub around the edge

119 4130 - Aspen Sapling Well 11.1 2 Immature N/A Oak and white pine were retained during the last harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	2
Red Oak	3	Log/XLog	16	93
Bigtooth Aspen	10	Sapling	1	2
Balsam Fir	2	Sapling	2	
White Pine	5	Log/Pole/Sap	12	
Quaking Aspen	72	Sapling	1	2
White Oak	3	Log	12	

120 4123 - Red Oak Sawtimber Well 14.1 97 81-110 N/A Jackson Lake State Camp Ground

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log	16	90	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	5	Log/Pole/Sap	12		Balsam Fir	Low	Variable	Sapling
White Pine	5	Log	15		Black Cherry	Low	Variable	Sapling
White Oak	1	Log	14		White Pine	High	Variable	Sapling
Red Maple	19	Log/Pole	11					
Red Oak	65	Log	15	97				

121 3102 - Grass Nonstocked 0.8 Unspecified No Well Pad Site
Riverside Energy Michigan, LLC
(989) 705-7665
State Briley 16-2
Permit No: 52106
MPSC No: 8725



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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122 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 3.8 97 81-110 N/A This stand likely say an aspen and red maple species removal around 1985. Ages were not verified due to the small size of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	6		Red Maple	High	>20 feet	Sapling
Red Maple	15	Pole/Sapling	5					
Black Spruce	1	Pole	6					
Northern White Cedar	5	Pole	8					
Black/Red (Hybrid) Oak	30	Log/XLog	16	97				
Balsam Fir	15	Pole/Sapling	5					
Bigtooth Aspen	21	Pole	6	37				
White Pine	3	Log	12					
White Oak	5	Log	14					

123 4130 - Aspen Poletimber Well 16.5 37 1-50 N/A All trees with a merchantable stick with the exception of white oak were harvested from this stand (from 1984 to 1986) as part of Timber Sale Name: Many Trails Block; Timber Sale Number: 54-031-84-01. The residual white oak are much less dense and more spaced out in this stand than they are in the stand to the west. The log sized white oak are highly variable in age, even among oak of similar diameter (somewhere in the range of 68 to 129 years in march of 2022).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	Pole	7		White Oak	Low	Variable	Sapling
Red Maple	15	Sapling/Pole	4		Red Maple	High	Variable	Sapling
Bigtooth Aspen	79	Pole	6	37				
White Oak	5	Log	15					

124 4130 - Aspen Sawtimber Well 30.2 59 81-110 N/A The half acre wildlife opening at the north edge of the west end of the stand was created in August of 1984 (originally grass).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	11		White Pine	Medium	Variable	Sapling
Bigtooth Aspen	75	Log/Pole	10	59	White Oak	Low	Variable	Sapling
White Pine	15	Log/Pole	11		Red Maple	High	Variable	Sapling

126 4130 - Aspen Poletimber Well 11.0 44 51-80 N/A The aspen are not doing well in this spoil. These are very poor quality aspen with conks and signs of rot.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	46	Pole	7	44	Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
Jack Pine	3	Pole	6		Cherry (spp.)	Medium	Variable	Tall Shrub
Bigtooth Aspen	40	Pole	7	44	White Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	1	Log	12					
White Pine	10	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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127	429 - Mixed Upland Conifers	Sawtimber Well	2.3	70	111-140	N/A	Old large legacy type white pine are present. A narrow 2-4 foot wide stream flows to the southeast through this stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log	16	
Paper Birch	2	Log	12	
White Pine	25	Log/XLog	17	
White Spruce	15	Log	14	
Balsam Fir	41	Pole	8	70
Red Maple	15	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling

128	4130 - Aspen	Sapling Well	5.7	26	1-50	N/A	All trees with a merchantable stick were harvested from this stand, with the exception of oak and red pine, via Timber Sale Name: First Out Sale; Timber Sale Number: 54-001-94-01; this sale was closed in September of 1995.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling/Pole	4	26
Black/Red (Hybrid) Oak	1	Log	16	
Red Pine	1	Log	12	
Red Maple	10	Sapling	2	
Black/Red (Hybrid) Oak	10	Sapling	3	
Bigtooth Aspen	48	Sapling/Pole	4	26
Jack Pine	10	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Oak (spp.)	Low	5 - 10 feet	Sapling
Cherry (spp.)	Medium	5 - 10 feet	Tall Shrub

129	4130 - Aspen	Sapling Well	3.5	27		N/A	All trees with a merchantable stick were harvested from this stand via Timber Sale Name: First Out Sale; Timber Sale Number: 54-001-94-01; this sale was closed in September of 1995. This stand was subsequently planted to jack pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	85	Sapling/Pole	4	27
Black/Red (Hybrid) Oak	5	Sapling/Pole	4	
Jack Pine	10	Sapling/Pole	4	

130	6120 - Lowland Cedar	Poletimber Well	2.3	100		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole	8	
Northern White Cedar	80	Pole/Log	8	100
Balsam Fir	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	High	Variable	Sapling

131	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	1.7	97	81-110	N/A	This is a small stand between a lowland treed bog and planted red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	11	
White Pine	25	Log/XLog	16	
Red Pine	5	Log/XLog	16	
Black/Red (Hybrid) Oak	55	Log/XLog	16	97

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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132 429 - Mixed Upland Conifers Poletimber Well 1.6 36 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	53	Pole/Log	8	36	Red Maple	Low	Variable	Sapling
Quaking Aspen	4	Pole	6		Balsam Fir	Medium	Variable	Sapling
Red Maple	3	Pole/Sapling	5					
Balsam Fir	40	Pole/Sapling	6					

133 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 8.7 82 51-80 N/A

This stand held much water through the central region when inventoried. The northeast portion of the stand was not walked though.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/XLog	12		Red Maple	Medium	>20 feet	Sapling
Red Pine	10	XLog	22	146	Balsam Fir	High	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6					
Quaking Aspen	25	Log/Pole	13					
Red Maple	25	Log/Pole	13	82				
Bigtooth Aspen	10	Pole	8					
Paper Birch	5	Pole/Log	8					

134 4126 - White, Black, N. Pin Oak Sawtimber Well 11.8 102 51-80 N/A

The BA in the northern 2/3 of the stand is higher (50-110). The BA in the southern 1/3 of the stand is below 50. The southern 1/3 of the stand is 2 aged, with dense aspen in the subcanopy; most of which was around 3 inches in DBH during the 2024 YOY Inventory. The red pine is concentrated at the north end of the stand. The aspen, red maple, and pine (except red pine) with a merchantable stick along with most oak under 8 inches DBH were harvested from this stand as part of Timber Sale Name: Breakup Shelterwood; Timber Sale No: 54-021-94-01 that was closed out in May of 1997.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log	12		Bigtooth Aspen	Medium	>20 feet	Sapling
White Pine	1	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole	5	21	White Pine	Low	Variable	Sapling
Red Pine	10	Pole/Log	8		Black Cherry	Low	Variable	Sapling
Black/Red (Hybrid) Oak	59	Log	15	102	Black/Red (Hybrid) Oak	Low	Variable	Sapling
					White Oak	Low	Variable	Sapling

135 6120 - Lowland Cedar Sawtimber Well 1.9 138 N/A

This is a unique cedar stand that is too wet to harvest. Protect this stand with a minimum 100 foot wide section of edge trees on all sides.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Log	17		Balsam Fir	Medium	Variable	Sapling
White Pine	1	Log/XLog	16					
Red Pine	1	Log/XLog	16					
Balsam Poplar	1	Log	15					
White Spruce	1	Log	13					
Paper Birch	1	Log	13					
Black Spruce	1	Log	12					
Northern White Cedar	93	Log/Pole	11	138				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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136 4311 - Pine, Aspen Mix Sapling Poor 0.8 5 Immature N/A

This is white pine planted in rows in an effort to restore a timber sale landing. Most of the white pine are reasonably healthy. Some white pine are showing signs of die back in their branches.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	51	Sapling	1	5
Bigtooth Aspen	49	Sapling	1	

137 4199 - Other Mixed Upland Deciduous Sawtimber Well 73.2 59 81-110 N/A

2024 YOE Inventory BA Measurements: (130, 80, 100, 80, /130, 150, 170, 110, 80, 90). This stand is younger than the stand to the east and has lesser quality timber/soil and was therefore separated out from the stand to the east. Areas of the north/northeast are oak dominate and through careful dissection could be divided out from areas of the central/western stand that are more of an even mix of oak/aspens and area to the south that is aspen dominate.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Log/Pole	10	
Red Oak	45	Log/Pole	12	59
Red Maple	15	Log/Pole	11	
Bigtooth Aspen	35	Log/Pole	11	59

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling