



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54058

Entry Year 2025

Acreage: 1,697

County Montmorency

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Dale Parris

Legal Description:

T31N R04E Sections 29, 30, 31, and 32

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Presque Isle Lake and Till Plains Management Area (PILTPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. For the purpose of balancing the age class acre distributions of covertypes across the Management Area (MA), forest management during the 2025 YOY in the PILTPMA will focus on the major covertypes for the individual compartments. Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

Soil and topography:

Approximately 90 percent of the soil in Compartment 58 is upland soil most of which is excessively drained grayling sand. The most prevalent soils within lowland areas along the western and eastern edges of the compartment are the more poorly drained Ausable muck, Allendale-Dorval-Blue Complex, and Tawas-Lupton Mucks.

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

Compartment 58 is bordered by additional state land to the north and a combination of state land and private land to the south. The compartment is bordered by large parcel recreational private land to the east and west. Farther to the west, but not adjacent to Compartment 58 is farmland.

Unique Natural Features:

Miller Creek, a designated cold-water and high priority trout stream, runs from north to south through the western edge of Compartment 58. Sucker Lake and Sucker Creek partially adjoin the east edge of the compartment. The majority of Compartment 58 is dominated by natural and planted jack pine stands with varying oak component densities. Oak and jack pine regenerate well in this compartment.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) acknowledged known areas of concern within Compartment 58. All proposed management activities have taken these concerns into consideration. Contact SHPO for additional information.

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 58 that require consideration when implementing forest management strategies. These species are the Kirtland's Warbler (*Dendroica kirtlandii*; federally and state endangered species) and the secretive locust (*Appalachia arcana*; state special concerns species).

Watershed and Fisheries Considerations:

Miller Creek, a designated cold-water and high priority trout stream, runs from north to south through the western edge of Compartment 58. No harvest operations are to occur within 300 feet of Miller Creek. Sucker Lake and Sucker Creek lies partially within the eastern edge of the compartment. Best management practices are to be followed when conducting forest management near lakes, streams, and rivers.

Wildlife Habitat Considerations:

Though not part of the Kirtland's warbler management area, potential exists for the species to be present in spring and summer. Other featured species in this compartment include white-tailed deer, wild turkey, and ruffed grouse. The forests in this compartment are relatively young and provide habitat for early-successional species. Openings should be maintained to provide variety of habitat types.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit abuts the compartment on the west side. The presence of Miller Creek might prevent expansion of the private operation into the compartment, but there may be some potential for sand & gravel elsewhere within the compartment. However, demand for aggregate does not appear to be significant. In addition, any sand & gravel

development would need to avoid oil & gas facilities. This area has been developed for and is producing gas from the Antrim Shale. All State-owned mineral rights in the compartment are currently leased and held by production. 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. The Antrim Shale play is generally in decline, and there is an increasing trend toward plugging wells. No known potential exists for oil & gas from other known producing formations. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access to Compartment 58 is excellent. Vehicle access to Compartment 58 is from Pleasant Valley Road to the north and Miller Creek Road to the west and south. The eastern portion of the compartment is accessible from Sucker Creek Road. Interior portions of Compartment 58 can be additionally accessed through many secondary 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 58. Further investigation will be needed to determine the extent to which these surveys are required.

Recreational Facilities and Opportunities:

Rabbit/hare, grouse, woodcock, whitetail deer, squirrel, turkey, and bear hunting as well as fishing opportunities are available within Compartment 58 in 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.

There are no designated recreation trails within Compartment 58.

Fire Protection:

In the case of wildland fire, Compartment 58 is within the response area of the Atlanta DNR Fire Taskforce/Atlanta Forest Management Unit. The Hillman Fire Department also responds to wildfires in this area. The Atlanta DNR Fire Task Force is within 13 miles of the compartment and typically would be able to be on scene within 20 to 30 minutes after being dispatched. The Hillman Fire Departments is within closer range of Compartment 58, typically making their response times quicker than that of the Atlanta DNR Task Force.

Additional Compartment Information:

The following reports from the Inventory are attached:

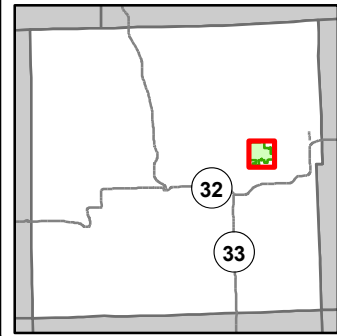
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

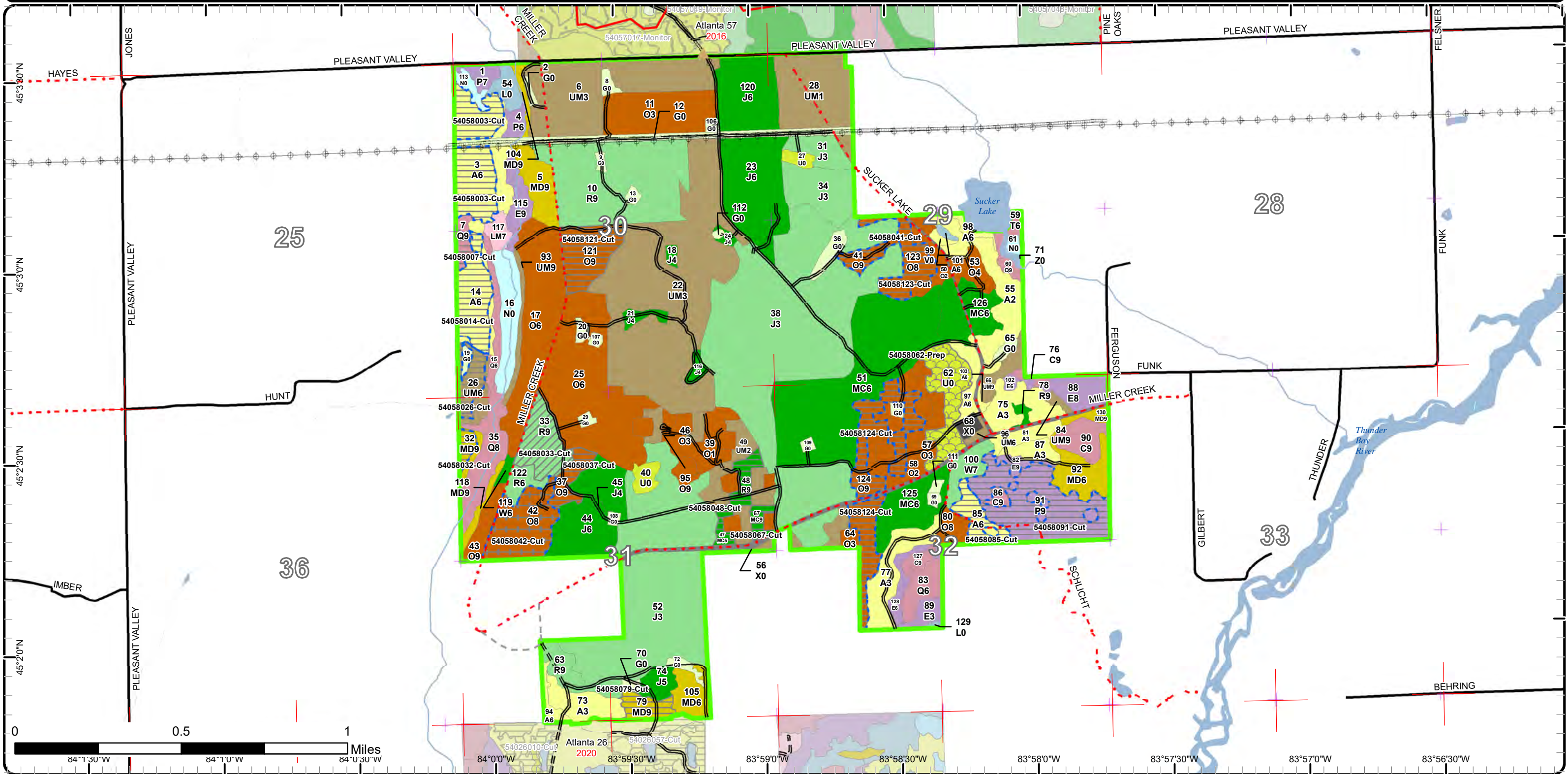
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 58
 T31N, R04E, Sec. 29-32
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Presque Isle Lake and Till Plains
 YOE: 2025
 Acres: 1696.8 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 6/12/2023
 Map Phase: Review

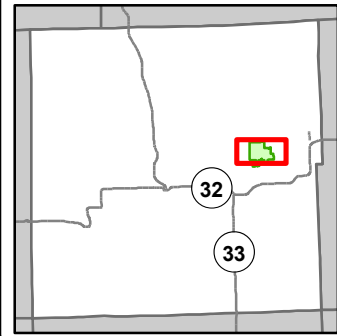


- Miris Corners
- + Remonumented Section Corners
- - - Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Site Prep
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
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- 612 - Lowland Coniferous Forest

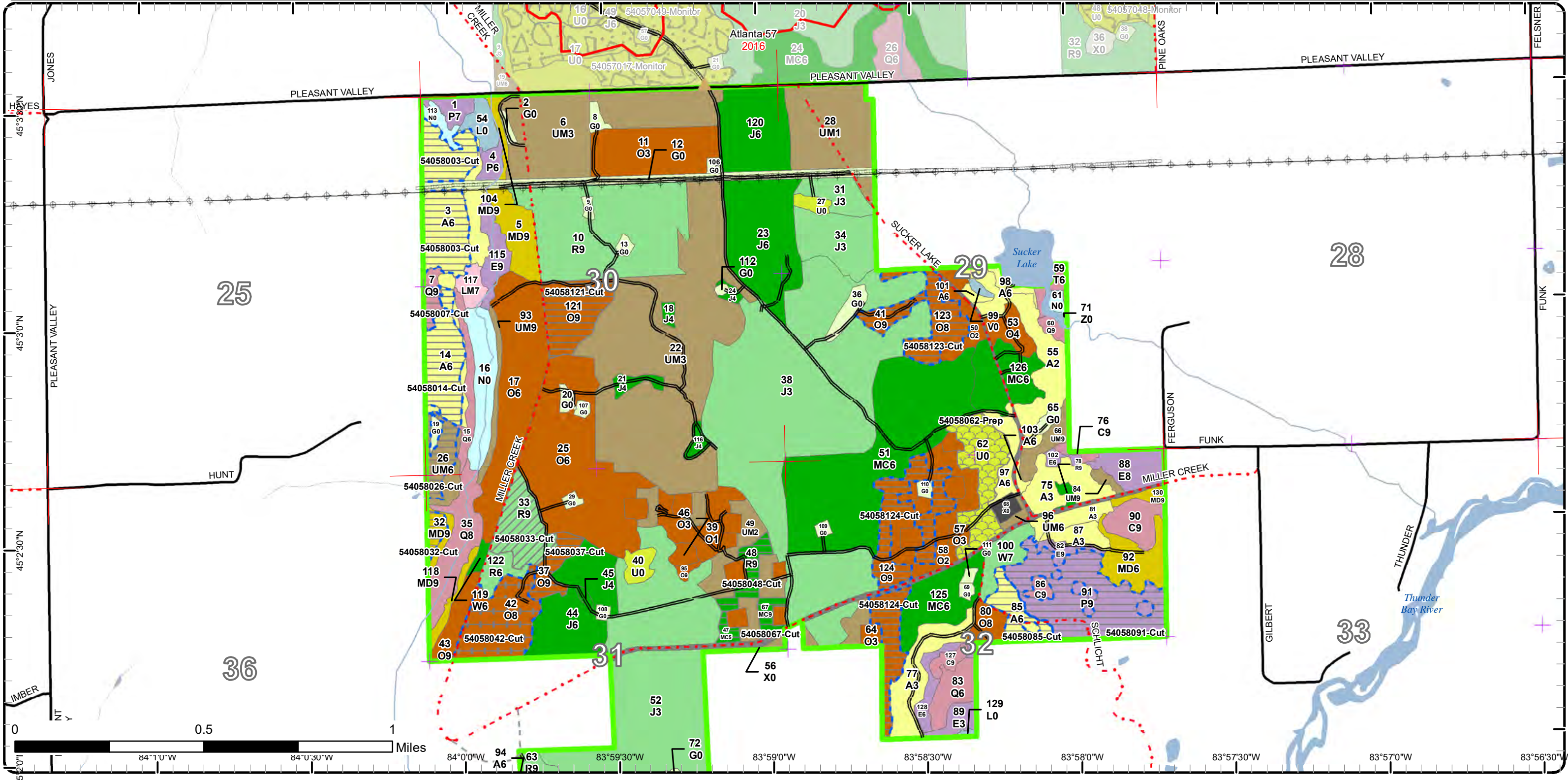


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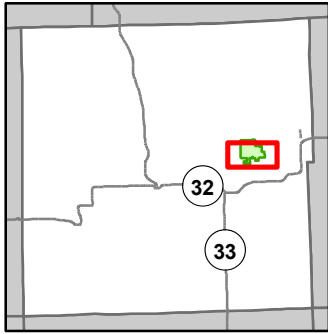


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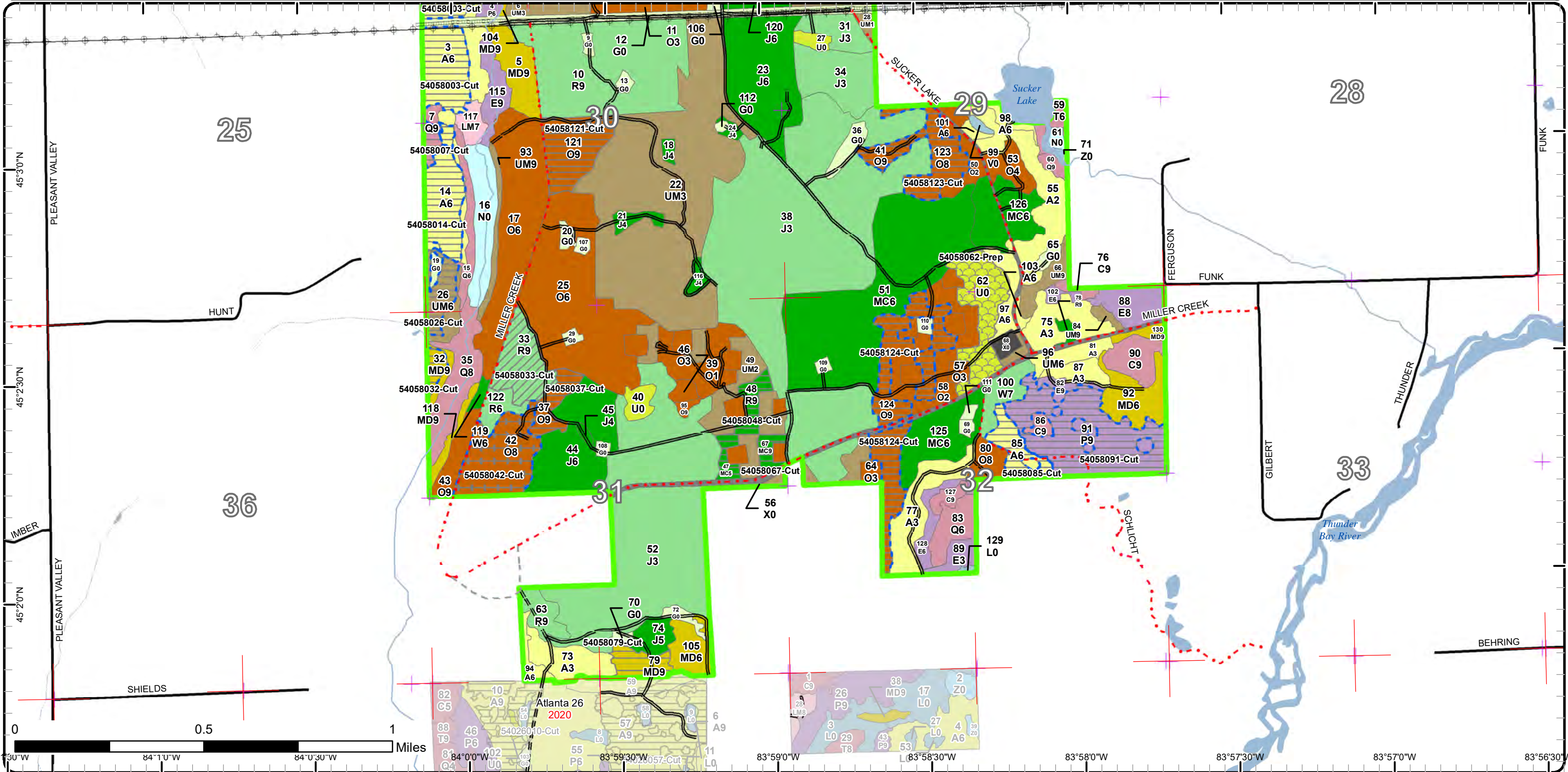


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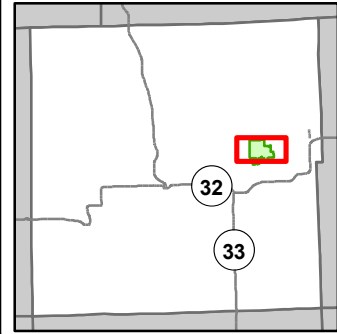


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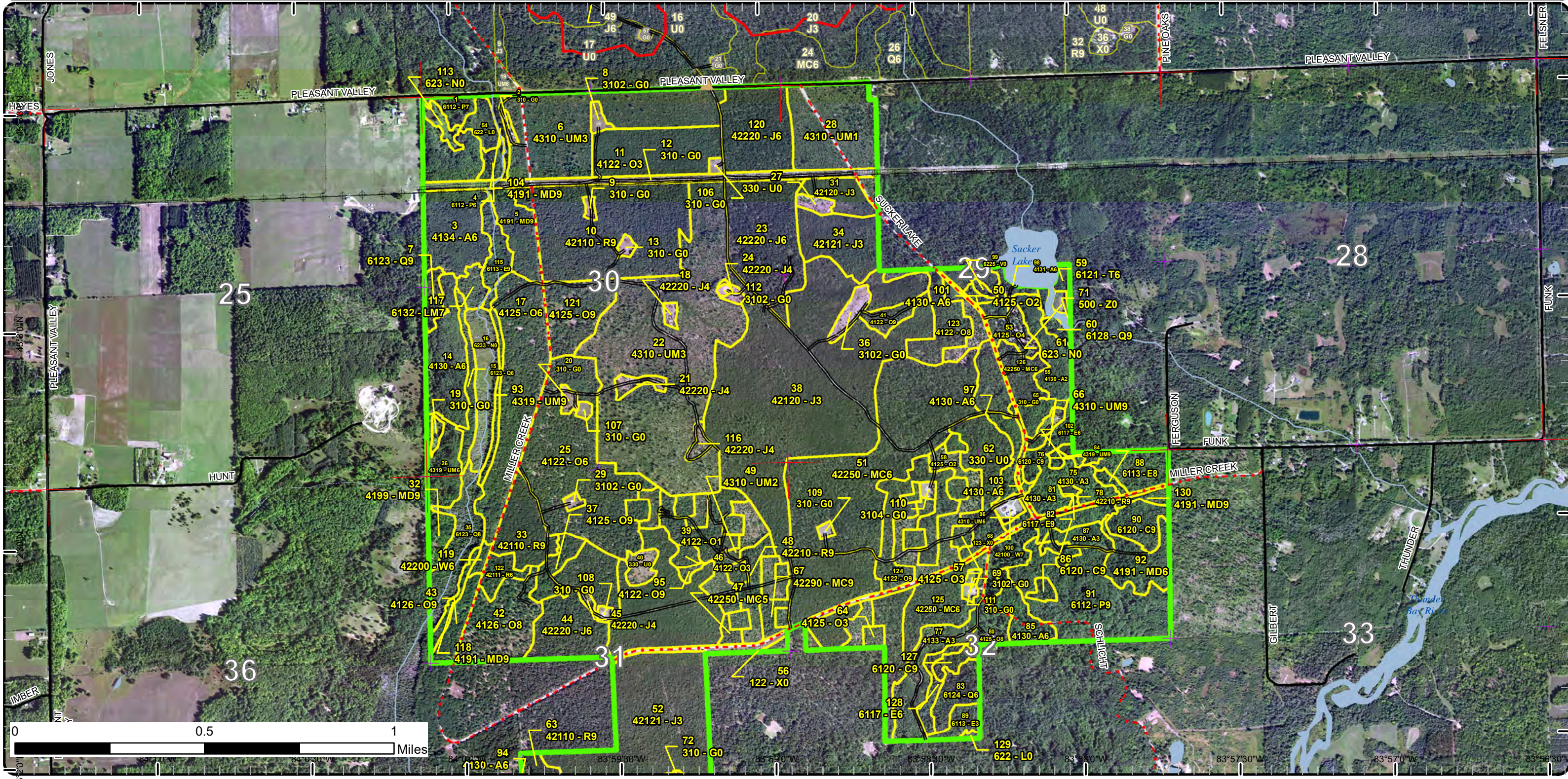


Stand Boundary Map

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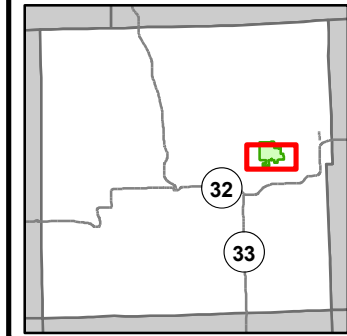


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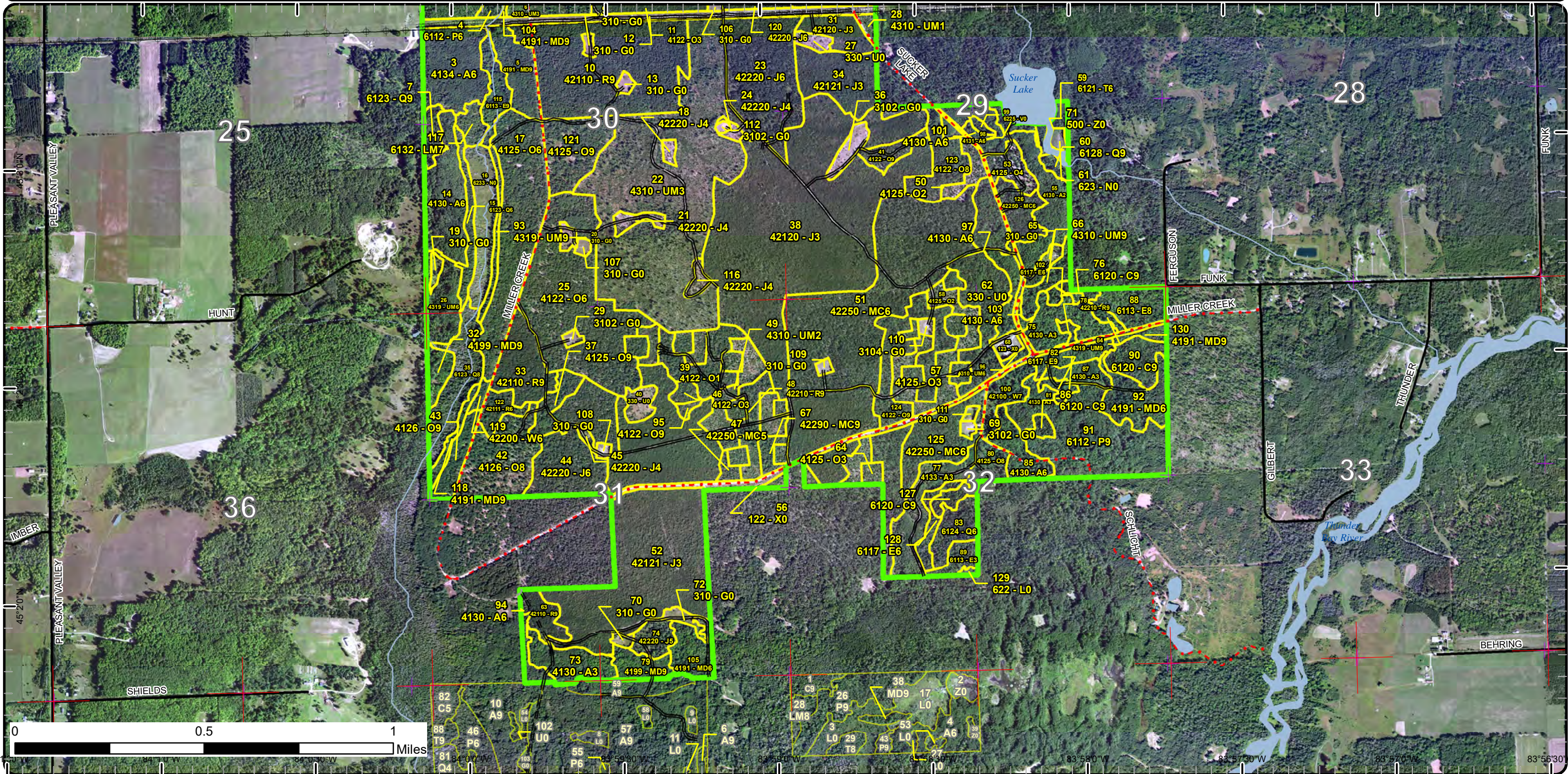


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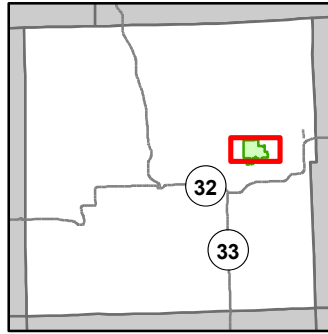


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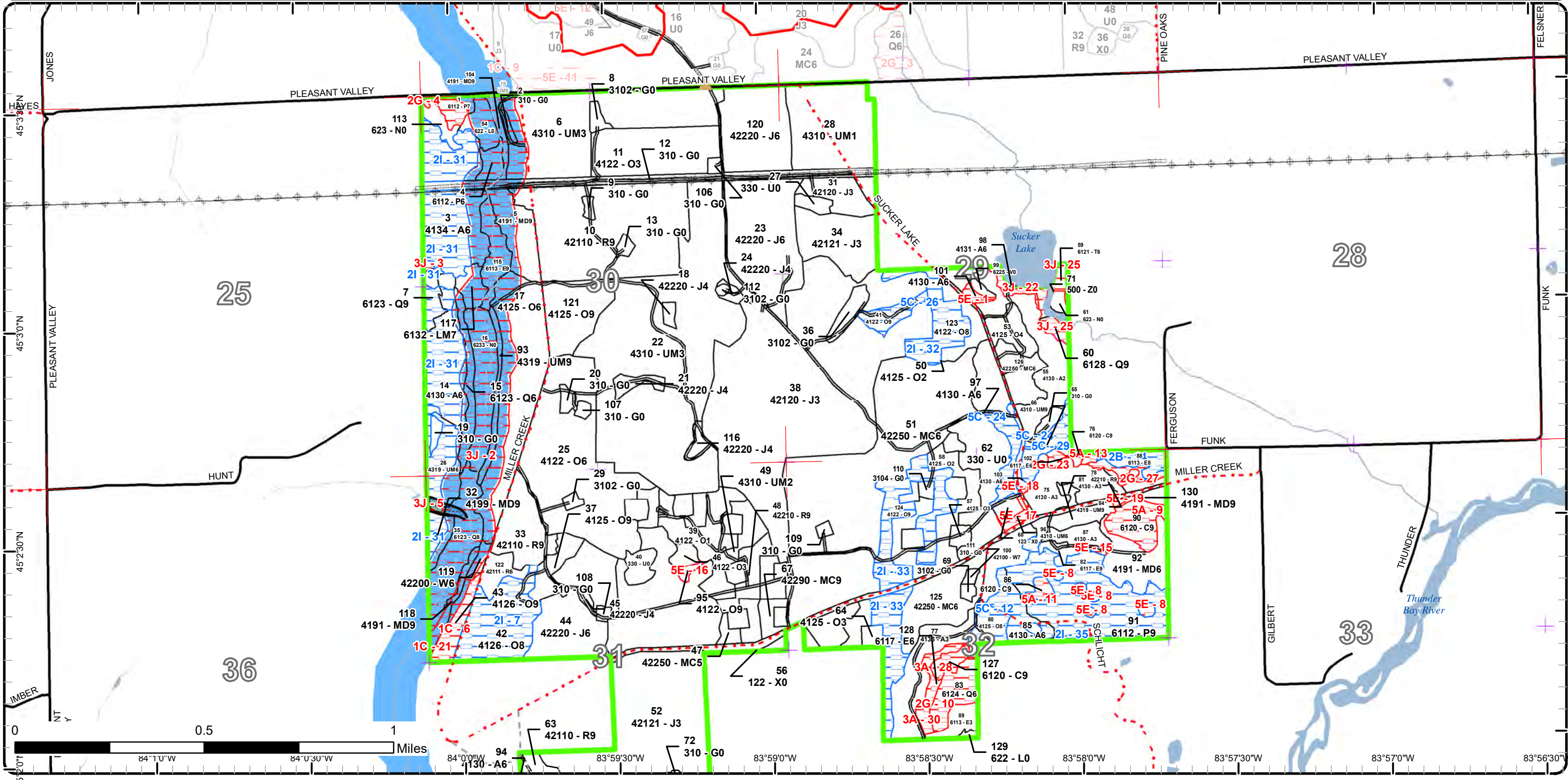


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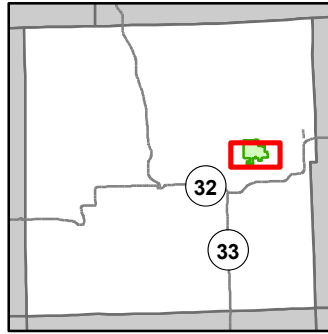


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- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Vernal Pool

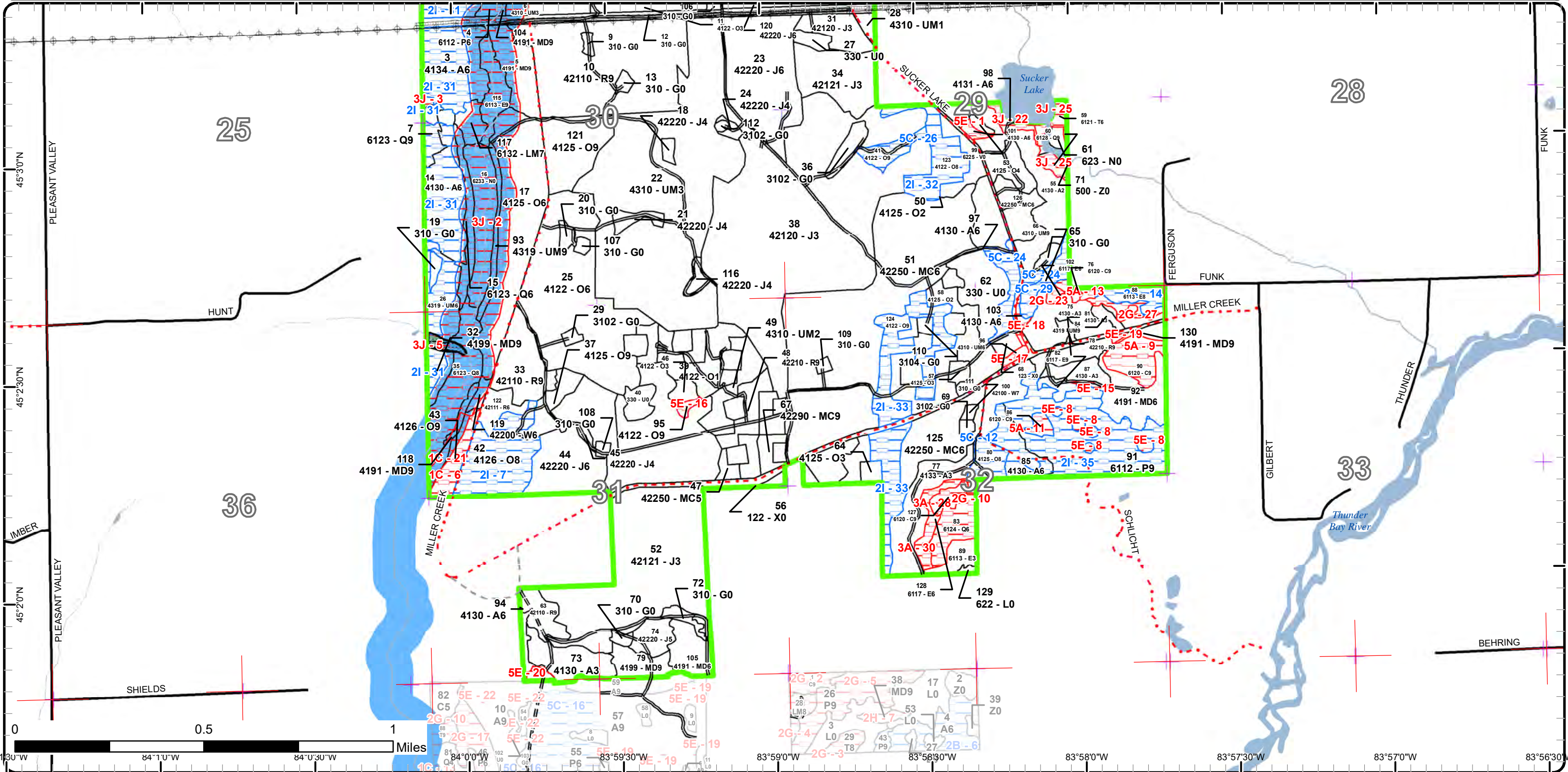


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Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 58 Year of Entry 2025



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	57	17	0	0	24	53	0	0	0	0	3	0	0	0	0	0	0	154
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	9	7	0	0	0	15
Herbaceous Openland	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Jack Pine	0	0	0	110	210	100	0	0	0	0	0	0	0	0	0	0	0	0	420
Low-Density Trees	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	47	4	0	0	0	0	0	0	0	0	0	0	51
Lowland Conifers	0	0	0	0	0	7	0	0	22	2	0	0	0	0	9	0	0	0	40
Lowland Deciduous	0	0	0	0	5	0	19	0	0	0	8	0	0	0	0	0	0	0	32
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Lowland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	9	0	7	0	24	0	3	0	0	0	0	0	0	12	55
Natural Mixed Pines	0	0	0	0	0	0	118	3	0	0	0	0	0	0	0	0	0	0	121
Oak	0	14	25	51	0	0	112	0	0	0	50	65	0	0	0	0	0	0	315
Red Pine	0	0	0	0	0	0	0	28	62	0	0	1	0	0	0	0	0	7	98
Tamarack	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	238	0	0	12	0	4	6	0	0	1	0	0	2	0	0	0	263
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Total	115	71	280	161	224	143	366	39	117	2	65	70	0	9	18	0	0	19	1695



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 58

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 1,697

Commercial Harvest - 60
 Harvests with Site Condition - 184
 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	54	0	0	0	0	0	0	0	0	54
Lowland Aspen/Balsam Poplar	41	0	0	0	0	0	0	0	0	41
Lowland Conifers	3	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	10	0	0	0	0	0	0	0	0	10
Natural Mixed Pines	5	0	0	0	0	0	0	0	0	5
Oak	76	0	0	0	0	24	0	0	0	100
Red Pine	7	0	0	0	16	0	0	0	0	23
Upland Mixed Forest	8	0	0	0	0	0	0	0	0	8
Total	204	0	0	0	16	24	0	0	0	243

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	243	20	0	0	0	0	0	0	0	263
Next Step	0	0	20	0	0	20	286	0	0	325
Total	243	20	20	0	0	20	286	0	0	588



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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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Proposed Treatments:

3	54058003-Cut	28.2	4134 - Aspen, Spruce/Fir	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Treatment area has been reduced to accommodate the 300 ft trout stream buffer. Maintain a 300 ft trout stream buffer on Miller creek as determined through consultation with the fisheries biologist. Include the proper grouse spec. If and where seeps are present, mark all seep areas out of the sale and protect seep areas from windthrow with location of timber sale boundaries.</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, balsam fir, spruce and/or paper birch.</p> <p><u>Other Comment:</u> Private access required. The stream buffer can be used for retention. Follow Best Management Practices for harvesting near the tributary stream near the south edge of this treatment.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

7	54058007-Cut	3.0	6123 - Lowland Fir	Sawtimber Well	78	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Retention is not necessary due to the small size of the stand. If and where seeps are present, mark all seep areas out of the sale and protect seep areas from windthrow with location of timber sale boundaries.</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, and/or paper birch.</p> <p><u>Other Comment:</u> Private access required. The cedar inclusion pocket at the north end of the stand is not part of the treatment. Soil will need to be accessed during the dry season for determining if the harvest of this stand is feasible. It is acceptable to terminate this treatment if soil is not seasonably stable for conducting a harvest.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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14	54058014-Cut	17.3	4130 - Aspen	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Treatment area has been reduced to accommodate the 300 ft trout stream buffer.

Maintain a 300 ft trout stream buffer on Miller creek as determined by the fisheries biologist.

Protect seep areas from rutting.

The treatment area may be substantially lower than prescribed due to seep areas being marked out of the sale.

Include the proper grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, maple, oak, and/or basswood.

Other Comment:

Private access required.

Retention is already marked out of the sale area to the north and in a wet area in the southwest corner of the stand.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

26	54058026-Cut	7.9	4319 - Mixed Upland Forest	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clear-cut.

Specs:

Retention is not necessary due to the small size of the stand.

Treatment area has been reduced to accommodate the 300 ft trout stream buffer.

Maintain a 300 ft trout stream buffer on Miller creek as determined through consultation with the fisheries biologist.

Mark all seep areas out of the sale and protect seep areas from windthrow with location of timber sale boundaries.

The treatment area may be substantially lower than prescribed due to seep areas being marked out of the sale.

Include the proper grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, sugar maple, and/or paper birch.

Other Comment:

Private access required.

Follow Best Management Practices for harvesting near the tributary stream north of this stand.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024



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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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32	54058032-Cut	3.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	78	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Treatment area has been reduced to accommodate the 300 ft trout stream buffer.

Maintain a 300 ft trout stream buffer on Miller creek as determined through consultation with the fisheries biologist.

Protect oak regeneration.

Mark a couple mast producing white oak for retention.

If and where seeps are present, mark all seep areas out of the sale and protect seep areas from windthrow with location of timber sale boundaries.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of red maple, oak, balsam fir, and/or paper birch.

Other Comment:

Harvesting close to the lowland stand to the east is not a major threat for windthrow. Most larger trees in the adjacent stand to the east are already on the ground.

Follow Best Management Practices for harvesting near the tributary stream north of this stand.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

33	54058033-Cut	15.9	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120 BA.

Specs:

Mark to cut red pine and oak.

Harvest any oak that will not cause damage to residual red pine when removed; essentially leaving oak mast trees.

Designate jack pine for harvest.

Mark in 3rd row harvesting lanes throughout sale.

Next Step

Treatments:

Acceptable Regen: This is not a regeneration harvest.

Other Comment:

There are larger oak present that should not be harvested due to the damage they would cause to residual red pine.

The stand does not look like it was 3rd row thinned.

Site Condition

Proposed Start Date: 10/1 /2024



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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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37	54058037-Cut	7.0	4125 - Black, N. Pin Oak	Sawtimber Well	93	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear-cut.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of oak, aspen, jack pine, and white pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

41	54058041-Cut	4.9	4122 - Oak, Pine	Sawtimber Well	94	51-80	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
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Prescription Clear-cut.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any low to well stocked mix of jack pine and/or oak.

Other Comment:

Site Condition Age-Class or Site Quality

Proposed Start Date: 10/1 /2024

42	54058042-Cut	23.5	4126 - White, Black, N. Pin Oak	Sawtimber Medium	93	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Overstory removal/Clear-cut with Retention

Specs:

Place retention pockets around large crown mast white oak while keeping retention stand representative.

Do not cut white pine.

Protect pine and oak regeneration.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regeneration is already present in the understory: Acceptable regeneration is a medium to well stocked stand of oak and pine.

Other Comment:

There is a consistent dense layer of oak with scattered pine present in this shelterwood completed in 2012. Protect this pine and oak regeneration during the overstory removal.

See the reference layer for retention location suggestions.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024



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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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47	54058047-Cut	2.0	42250 - Pine, Oak	Poletimber Medium	58	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-cut.

Specs:

Full tree skid to promote jack pine regeneration. Soil scarification with well spread slash is another option.

Protect legacy trees if present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of oak, jack pine, red pine, and/or white pine.

Other Comment:

Oak regenerate from seed and and stump sprouts well in this area.

Site Condition

Proposed Start Date: 10/1 /2024

48	54058048-Cut	6.8	42210 - Natural Red Pine	Sawtimber Well	77	81-110	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
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Prescription Clear-cut.

Specs:

Retention is not necessary due to the small size of the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of oak, jack pine, white pine, and/or red pine.

Other Comment:

Site Condition

Proposed Start Date:

Proposed Start Date: 10/1 /2024

67	54058067-Cut	3.2	42290 - Natural Mixed Pine	Sawtimber Well	66	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-cut.

Specs:

Full tree skid to promote jack pine regeneration. Soil scarification with well spread slash is another option.

Retain the few aspen to the south to minimize aspen dominance in the future stand. (There are approximately 3 aspen in the SW corner of the stand.)

Protect legacy trees. (One red pine legacy tree in the SW noted.)

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of oak, jack pine, red pine, and/or white pine.

Other Comment:

Oak regenerate from seed and and stump sprouts well in this area.

Site Condition

Proposed Start Date: 10/1 /2024



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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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79	54058079-Cut	6.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	57	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Focus retention pockets around upland oak while keeping retention stand representative.

Include the proper grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of aspen, red maple, oak, and/or balsam fir.

Other Comment:

Leave the timber in the stand to the south in Compartment 26 as a wildlife travel corridor.

Site Condition

Proposed Start Date: 10/1 /2024

85	54058085-Cut	8.5	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Retention is already marked out of the stand in the south end.

Protect the pine regeneration.

Protect the red pine and white pine legacy trees.

Include the appropriate grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to well stocked mix of Aspen, red maple, balsam fir, and/or white pine.

Other Comment:

Site Condition

Survey Needed

Proposed Start Date: 10/1 /2024

91	54058091-Cut	40.8	6112 - Lowland Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clear-cut with retention. Mark to protect white pine (and red pine) legacy trees, where present. Also mark to protect white pine seed trees with well established crown to promote future stand diversity. Presence will be minimal. Paint wet, low density timber areas out of the sale where reasonable. Use proper grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any medium to low stocked mix of aspen, red maple, balsam fir, and/or white pine.

Other Comment:

Suggested retention pockets around wet areas are marked out of the treatment. Final retention will be decided on during timber sale prep for best protecting the resources.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
121	54058121-Cut	17.8	4125 - Black, N. Pin Oak	Sawtimber Well	109	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. <u>Specs:</u> Protect red pine and white pine regeneration. <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 aspen, oak, white pine, and red pine. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
123	54058123-Cut	13.5	4122 - Oak, Pine	Sawtimber Medium	106	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. <u>Specs:</u> Place retention along the southern edge of the stand as a wildlife travel corridor. Protect all red pine and white pine to promote future stand diversity. (The retained red pine and white pine will not exceed 5 BA.) Full tree skid to promote jack pine regeneration. (Oak have no problem regenerating in this area.) <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 jack pine, oak, white pine, and/or red pine. <u>Other Comment:</u> There is room to full tree skid around residual red pine and white pine. Cut up to the private line to the north so that the property line is established. <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2024</p>											
124	54058124-Cut	32.9	4122 - Oak, Pine	Sawtimber Well	106	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention. <u>Specs:</u> Protect legacy red pine. Retain snags and cavity trees for wildlife. <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 jack pine, oak, aspen, white pine, and/or red pine. <u>Other Comment:</u> Cut up to the edge of the private property to the south to establish the property line. <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2024</p>											

Approved Treatments:

62	54058062-Prep	19.6	330 - Low-Density Trees	Nonstocked	0		SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench for the planting of red pine. <u>Specs:</u></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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Next Step Pesticide, Skidder - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial
Treatments: Regen(3yr)

Acceptable Fully Stocked Red Pine
Regen:

Other Roller chopping was completed on 8/29/22.
Comment: A variance to plant to red pine and add use of herbicide to set back competition approved on 3/24/2020.

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 262.7

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 58
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions										
		With Condition			2B	2I	5C	1C	2G	3A	3J	5A	5E	ed	
154	78	61		15	Aspen		53	7				12		3	
1	1	0		0	Bog										
16	0	0		16	Cedar						3		13		
43	39	0		3	Herbaceous Openland							3			
419	419	0		0	Jack Pine										
26	26	0		0	Low-Density Trees									0	
52	3	41		8	Lowland Aspen/Balsam Poplar		41			4		1		3	0
40	2	3		35	Lowland Conifers		3		0	9		26			
32	9	5		18	Lowland Deciduous	5				4	5	8			
4	1	0		3	Lowland Mixed Forest							3			
6	1	0		5	Lowland Shrub							5			
20	5	0		15	Marsh							15			
56	42	3		12	Mixed Upland Deciduous		3		2			9		0	
121	121	0		0	Natural Mixed Pines										
314	209	80		24	Oak		70	11	7			16		1	
98	98	0		0	Red Pine							0			
3	0	0		3	Tamarack							3			
263	234	14		15	Upland Mixed Forest		8	6				13		1	
18	18	0		0	Urban										
1	1	0		0	Water										
10	8	0		1	White Pine							1			
1,697	1,316	207		174	Total Forested Acres	5	178	24	9	17	8	117	13	9	0
	78%	12%		10%	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:							
This stand is long term retention for the stand to the south from Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01.							

Report 4 – Site Conditions

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	114	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	1C: Other dept or div proc/practices	Unspecified
Comments: 1C: Trout stream habitat buffer. Miller Creek.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Spring or seep.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Spring or seep.							
6	Unavailable	1C: Other dept or div proc/practices	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An investigation of survey records and a site inspection on the ground are required for determining the need for a survey.							

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8	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is future long-term retention for the surrounding stand.							
9	Unavailable	5A: Not able to obtain desirable regeneration	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 58
Year of Entry: 2025

14	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is long term retention for the stand to the north from Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is long term retention for the stand to the west from Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01.							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is long term retention for the stand to the south from Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01.							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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21	Unavailable	1C: Other dept or div proc/practices	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Priority Trout Stream 100 m Buffer							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These drainages are too wet to harvest in.							
28	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	5A: Not able to obtain desirable regeneration	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This lowland edge protects the lowland cedar/lowland spruce-fir to the east from windthrow. Pole timber is in the south with log sized trees to the north.							
31	Available	2I: Survey needed	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An investigation of survey records and a site inspection on the ground are required for determining the need for a survey.							
32	Available	2I: Survey needed	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An investigation of survey records and a site inspection on the ground are required for determining the need for a survey.							

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Compartment: 58
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33	Available	2I: Survey needed	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An investigation of survey records and a site inspection on the ground are required for determining the need for a survey.							
35	Available	2I: Survey needed	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An investigation of survey records and a site inspection on the ground are required for determining the need for a survey.							
44	Unspecified	Unspecified	0				
Comments:							



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
Unspecified	Spring Wetlands Riparian Area	Vernal Pool	SCA	2
Comments	permanent stream + springs			



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	6112 - Lowland Aspen	Sawtimber Poor	4.4	65	51-80	N/A	This stand is too wet to harvest.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Balsam Poplar	30	Log/Pole	10	65	Ash (spp.)	Low	Variable	Sapling
		Paper Birch	20	Log/Pole	10					
		Red Maple	20	Log/Pole	11					
		Quaking Aspen	30	Log/Pole	10	65				
2	310 - Herbaceous Openland	Nonstocked	1.2		Immature	No	This site was visited with full snow coverage. The stand looks like an old sand/gravel pit.			
3	4134 - Aspen, Spruce/Fir	Poletimber Well	35.0	52	81-110	N/A	This is a consistently dense aspen stand. Red osier dogwood and green ash are dense in the understory north of the power line.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Balsam Fir	15	Pole	7		Green Ash	High	Variable	Sapling
		White Spruce	5	Log/Pole	11		Red Osier Dogwood	High	5 - 10 feet	Tall Shrub
		Quaking Aspen	56	Pole	8	52	Balsam Fir	High	>20 feet	Pole
		White Pine	2	Pole	7					
		Bigtooth Aspen	15	Pole/Log	8					
		Balsam Poplar	5	Pole/Log	8					
		Black Spruce	2	Pole	8					
4	6112 - Lowland Aspen	Poletimber Well	3.3	52	51-80	N/A	Miller Creek runs through the stand.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	35	Pole/Log	8		Balsam Fir	Full	Variable	Pole
		Balsam Fir	30	Pole	7					
		Balsam Poplar	35	Pole/Log	8	52				
5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.2	63	51-80	N/A	Past management has made this an uneven aged stand with a somewhat suppressed age cohort of aspen and oak that the age was taken from.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Bigtooth Aspen	25	Pole	7	63	Red Pine	Low	< 5 feet	Sapling
		Black/Red (Hybrid) Oak	30	Pole/Log	8	63	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
		Red Pine	15	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
		Red Maple	5	Log/Pole	11					
		White Pine	5	Log/Pole	10					
		White Oak	15	Log	13					
		Jack Pine	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
6	4310 - Pine, Oak Mix	Sapling Well	52.3	15	Immature	N/A	Evidence of row planted jack pine can be seen throughout the stand. Naturally regenerated oak dominates in areas. Scattered log sized red pine, white pine, and oak are present. Via FTP C54-839 and per completion reports, 48 acres of this stand were planted with 917 jack pine per acre in May of 2008. This stand was harvested (with the exception of white pine and scattered marked oak) in the spring of 2007 via Timber Sale Name: Scout's Tub Pine; Timber Sale Number: 54-024-06-01.																																									
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Black/Red (Hybrid) Oak	46	Sapling	3	16																																												
7	6123 - Lowland Fir	Sawtimber Well	4.2	78	81-110	N/A	This stand is balsam fir dominate in the southern 2/3 of the stand, cedar dominate to the north, with windthrow along the eastern edge.																																									
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8	3102 - Grass	Nonstocked	1.8				Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 2-30Permit No.50676 M.P.S.C. No. 7691																																									
9	310 - Herbaceous Openland	Nonstocked	1.0			No																																										
10	42110 - Planted Red Pine	Sawtimber Well	62.2	77	111-140	N/A	2025 YOE Inventory BA Measurements: (210, 120, 150, 110, 110, 110, 80, 80, 80, 80)																																									
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11	4122 - Oak, Pine	Sapling Well	26.5	27	1-50	N/A	The harvest of this stand was completed in May of 1996 as part of Timber Sale Name: Pleasant Power; Timber Sale Number: 54-016-95-01.																																									
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12	310 - Herbaceous Openland	Nonstocked	16.6			No	This is a power line clearing.																																									
13	310 - Herbaceous Openland	Nonstocked	1.2				Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 7-30Permit No.50677 M.P.S.C. No. 7692																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
14	4130 - Aspen	Poletimber Well	20.8	47	51-80	N/A	The age of this stand, recorded during the previous inventory, aligns with Forest Treatment Proposal records stating stand was harvested in 1976. There is sugar maple along the west edge of this stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Basswood		2	Log	14		Sugar Maple		
Sugar Maple		5	Log	15		Balsam Fir		
Black/Red (Hybrid) Oak		1	Pole	8		Ironwood		
Red Maple		5	Log	12				
Paper Birch		3	Pole	6				
Quaking Aspen		54	Pole/Log	8	47			
Balsam Poplar		10	Pole	8				
Bigtooth Aspen		10	Pole	8				
Balsam Fir		10	Pole	8				
15	6123 - Lowland Fir	Poletimber Well	6.8	47	81-110	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		58	Pole	7	47	Balsam Fir		
Quaking Aspen		35	Pole	7	47			
Black Spruce		2	Pole	7				
White Spruce		3	Log/Pole	12				
Northern White Cedar		2	Log	12				
16	6233 - Wet Meadow	Nonstocked	15.3			No	Dead trees are present throughout due to over saturated soil.	
17	4125 - Black, N. Pin Oak	Poletimber Well	42.8	57	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		20	Pole	7		Black/Red (Hybrid) Oak		
Red Pine		2	XLog/Log	20		Balsam Fir		
White Pine		2	Log/XLog	16		White Pine		
Jack Pine		2	Pole	8				
Black/Red (Hybrid) Oak		69	Pole	8	57			
Red Maple		5	Pole/Sapling	5				
18	42220 - Natural Jack Pine	Poletimber Poor	1.3	36	1-50	N/A	This is a wildlife opening that has been slowly filling in with open grown, bushy jack pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		95	Pole/Sapling	5	36	Jack Pine		
Black/Red (Hybrid) Oak		5	Sapling/Pole	4		Black/Red (Hybrid) Oak		
19	310 - Herbaceous Openland	Nonstocked	1.3			No		
20	310 - Herbaceous Openland	Nonstocked	1.6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
21	42220 - Natural Jack Pine	Poletimber Poor	2.8	36	1-50	N/A	This is a wildlife opening that has been slowly filling in with open grown, bushy jack pine.																																																				
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22	4310 - Pine, Oak Mix	Sapling Well	124.6	16	Immature	N/A	Contrary to cut records red pine were retained. Pockets of log/ pole size red pine are present throughout. Scattered mature oak are present. Dense jack pine dominates full tree skidding lanes and can be seen in leaf off imagery. The somewhat more open grown jack pine outside the skidding lanes, are somewhat bushier and are mixed with oak. All jack pine, and oak (with the exception of oak over 12" in DBH) were harvested from this stand in the summer of 2007 via Timber Sale Name: Scout's Tub Pine; Timber Sale Number: 54-024-06-01. (Evidence of aspen and red pine being harvested was not evident.)																																																				
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23	42220 - Natural Jack Pine	Poletimber Well	37.2	47	81-110	N/A	This stand is highly jack pine dominate, with the exception of the northern edge, just south of the power line, where some oak is present. This oak area could be added to the stand north of the power line but was kept separate for management purposes.																																																				
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24	42220 - Natural Jack Pine	Poletimber Poor	1.3	36		N/A	This stand is similar to other stands in the area that are fields slowly filling in with jack pine. This stand still has some open area.																																																				
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25	4122 - Oak, Pine	Poletimber Well	61.9	55	51-80	N/A	Overall, this stand is a mixture of oak and jack pine. The density of the jack pine can be seen in the leaf off imagery. The oak is of lower quality.																																																				
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26	4319 - Mixed Upland Forest	Poletimber Well	11.7	47	81-110	N/A	Pockets of remnant cedar are present. There is a low quality sugar maple inclusion pocket along the NW edge. There are wet areas and seeps present; concentrated in cedar pockets. The age of this stand, recorded during the previous inventory, aligns with Forest Treatment Proposal records stating stand was harvested in 1976.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
27	330 - Low-Density Trees	Nonstocked	2.5			No	This is a grass wildlife opening that is slowly filling in with bushy open grown jack pine.																																																						
28	4310 - Pine, Oak Mix	Sapling Poor	33.9	15	Immature	N/A	A walk through was completed in March 2023. There is approximately an equal amount of row planted jack pine and naturally regenerated oak. The mature white pine pocket to the east was not planted with jack pine. Via FTP C54-840 and per completion reports, 26 acres of this stand was planted with 1,115 jack pine per acre in May of 2008. This stand was harvested (with the exception of red pine, white pine and scattered marked oak) in the spring of 2007 via Timber Sale Name: Scout's Tub Pine; Timber Sale Number: 54-024-06-01.																																																						
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29	3102 - Grass	Nonstocked	1.1																																																										
31	42120 - Planted Jack Pine	Sapling Well	8.5	31	Immature	N/A	This is row planted jack pine. The rows are more evident in some areas than others. This stand was harvested as part of Timber Sale Name: Brown Pine Block; Timber Sale Number: 54-059-91-01. The sale was closed in July of 1992. Red pine and white pine were retained during the harvest.																																																						
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32	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.0	78	51-80	N/A	Trace sugar maple and white oak are present.																																																						
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33	42110 - Planted Red Pine	Sawtimber Well	15.9	62	141-170	N/A	2023 YOE Inventory BA Measurements: (140, 170, 190, 140, 150, 150, 130, 110). This stand was interplanted to red pine in the Fall of 1961 per planting form record.																																																						
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34	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	19.1	31	1-50	N/A	This is row planted jack pine. The rows are more evident in some areas than others. The jack pine density is highest in the west half of the stand. This stand was harvested as part of Timber Sale Name: Brown Pine Block; Timber Sale Number: 54-059-91-01. The sale was closed in July of 1992. Red pine and white pine were retained during the harvest.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
35	6123 - Lowland Fir	Sawtimber Medium	17.9	78	Unspecified	N/A	Much of this stand has experienced windthrow and has a consistent dense layer of balsam fir in the understory. Miller Creek runs through this stand and a small 1-2 foot wide tributary enters the stand within the stand arm to the west.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		3	Log	12		Balsam Fir		
Balsam Fir		55	Pole	7	78	Full		
Red Maple		10	Log/Pole	11		Variable		
Northern White Cedar		32	Log/Pole	12		Medium		
						10 - 20 feet		
						Sapling		
						Tall Shrub		
36	3102 - Grass	Nonstocked	4.2			No	There are scattered bushy, open grown, jack pine in this open field.	
37	4125 - Black, N. Pin Oak	Sawtimber Well	7.0	93	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		15	Log	13		Oak (spp.)		
Black/Red (Hybrid) Oak		55	Log/Pole	12	93	High		
Bigtooth Aspen		5	Log	12		5 - 10 feet		
Jack Pine		20	Pole	8		Sapling		
White Pine		5	Log	13				
38	42120 - Planted Jack Pine	Sapling Well	173.4	31	Immature	N/A	This stand was separated from the stands to the north due to the more uniform row planting and the higher percentage of jack pine canopy stocking in this stand. This stand was harvested as part of Timber Sale Name: Brown Pine Block; Timber Sale Number: 54-059-91-01. The sale was closed in July of 1992. Red pine and white pine were retained during the harvest. FTP records indicate that jack pine were planted shortly after harvest in the October of 1992.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		90	Sapling/Pole	4	31	Oak (spp.)		
Red Pine		1	Pole/Log	9		Low		
Black/Red (Hybrid) Oak		9	Sapling/Pole	4		5 - 10 feet		
						Sapling		
39	4122 - Oak, Pine	Sapling Poor	14.0	6	Immature	N/A	The harvest of this stand was completed in November of 2017 as part of Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01. Only trees with a merchantable stick were harvested. Red pine and white pine were retained.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		30	Sapling	1	6			
Red Pine		10	Log/Pole	11				
Black/Red (Hybrid) Oak		60	Sapling	1	6			
40	330 - Low-Density Trees	Nonstocked	4.0			No	This is low density, bushy, open grown jack pine amongst a grass opening.	
41	4122 - Oak, Pine	Sawtimber Well	4.9	94	51-80	N/A	This stand adds age class diversity to the area. Trees are getting older and developing cavities for wildlife. This oak is of poor timber quality.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern Pin Oak		60	Log	12	94	Jack Pine		
Jack Pine		40	Pole/Log	9		Low		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
42	4126 - White, Black, N. Pin Oak	Sawtimber Medium	23.5	93	1-50	N/A	This stand was harvested in March of 2012 as part of Timber Sale Name: One Stick Jack; Timber Sale Number: 54-030-11-01. 30 BA of red, white, and pin oak were retained with the exception of the northern 1/3 of the stand where the canopy was removed to open up the under planted red pine stock, per timber sale notes.																																																		
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44	42220 - Natural Jack Pine	Poletimber Well	30.5	49		N/A	The northern half of this stand, north of the well site, has smaller pole size oak. Species composition wise, the north half of this stand fits with the southern half. By the size of the oak, the north half of this stand fits with the stand to the north.																																																		
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45	42220 - Natural Jack Pine	Poletimber Poor	1.1	36		N/A																																																			
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46	4122 - Oak, Pine	Sapling Well	13.7	26	Immature	N/A	Composed of 8 somewhat square pockets, all harvested at the same time, these 1 - 2 acre pockets are all dominated with oak and jack pine. The harvest of this 5-spot was completed in July of 1997 as part of Timber Sale Name: YJCCA; Timber Sale Number: 54-042-95-01. The 1998 imagery shows the true location of the 5-spot cut and does not quite align with the timber sale map. Three partial 5-spot cut areas to the north have been merged into other stands in accordance with mapping standards.																																																		
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47	42250 - Pine, Oak	Poletimber Medium	2.0	58	51-80	N/A																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
48	42210 - Natural Red Pine	Sawtimber Well	6.8	77	81-110	N/A	The red pine looks to be uneven aged with many DBH size classes represented. A few legacy red pine are present in the north end.																																				
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49	4310 - Pine, Oak Mix	Sapling Medium	27.4	17	Immature	N/A	This stand is composed of 8 irregularly shaped pockets of land, all harvested at the same time, and all are dominated by oak and jack pine. These stands were historically managed with an overall 170 acres under a modified 5-spot rotation. This stand was last harvested as a group of 8 irregular-shaped chunks totaling approximately 27 acres as part of Timber Sale Name: Worm Shovel Oak Sale; Timbe Sale Number: 54-022-05-01. This sale was closed in September of 2006. All white pine were retained during the harvest.																																				
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50	4125 - Black, N. Pin Oak	Sapling Medium	7.5	17	Immature	N/A	The northern 1.7 acres of this stand is aspen dominate. The rest of the stand is jack pine and oak. An inclusion pocket, not part of the original harvest area of this stand, was added to the NE edge for management purposes. This stand was historically managed with an overall 170 acres under a modified 5-spot rotation. This stand was last harvested as part of a sale closed in September of 2006, Timber Sale Name: Worm Shovel Oak; Timbe Sale Number: 54-022-05-01. All white pine were retained during the harvest.																																				
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51	42250 - Pine, Oak	Poletimber Well	80.9	50	51-80	N/A	This is lower quality oak timber.																																				
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52	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	109.8	24	Immature	N/A	Rows of jack pine are obvious in some areas and less obvious in others. Per FTP C54-656 and per completion report, 72 acres of this stand south of Miller Road were planted to jack pine in late April of 1999 at 1,055 trees per acre. The harvest of this stand was completed in May of 1998, Timber Sale Name: Double T; Timber Sale Number: 54-020-95-01.																																				
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53	4125 - Black, N. Pin Oak	Poletimber Poor	6.5	53	1-50	N/A	This is open grown/bushy oak. The open stand structure adds diversity to the area.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
54	622 - Lowland Shrub	Nonstocked	5.3	0		No	For all intensive management purposes, this is lowland shrub with some scattered lowland conifer and lowland deciduous trees at varying densities.																																	
55	4130 - Aspen	Sapling Medium	21.1	6	Immature	N/A	Pockets of lowland shrub are present. The harvest of this stand was completed in November of 2017 as part of Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01. Oak, cedar, and hemlock were retained during the harvest.																																	
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56	122 - Road/Parking Lot	Nonstocked	15.4			No	This is Miller Creek Road and Sucker Creek Road.																																	
57	4125 - Black, N. Pin Oak	Sapling Well	8.3	26	Immature	N/A	11 inch dbh BT aspen pocket to the NE. The harvest of this 5-spot type stand was completed in November of 1997 as part of Timber Sale Name: Miller Creek Five Spot; Timber Sale Number: 54-001-96-01. This stand accounts for approximately half of the 5-spot acres harvested in this sale. The rest of the cut acres have been merged with other stands for varying reasons.																																	
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58	4125 - Black, N. Pin Oak	Sapling Medium	17.4	17	Immature	N/A	This stand was historically managed with an overall 170 acres under a modified 5-spot rotation. This stand was last harvested as part of a sale closed in September of 2006, Timber Sale Name: Worm Shovel Oak; Timber Sale Number: 54-022-05-01. All white pine were retained during the harvest.																																	
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59	6121 - Tamarack	Poletimber Well	3.2	70	1-50	N/A	This lowland stand borders Sucker Lake and Sucker Creek. Retain this very wet stand to protect Sucker Lake and Sucker Creek.																																	
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60	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.1	85	81-110	N/A	The tamarack are in a ring along the water. Retain this stand to protect Sucker Creek.																																	
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61	623 - Emergent Wetland	Nonstocked	1.6			No	This is emergent wetland/low density stunted swamp trees.																																																							
62	330 - Low-Density Trees	Nonstocked	19.6	0			<p>Trenching for the planting of red pine is scheduled for 2023 season.</p> <p>Roller chopping was completed on 8/29/22.</p> <p>A variance to plant to red pine and add use of herbicide to set back competition approved on 3/24/2020.</p> <p>The harvest of this stand was completed in November of 2017 as part of Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01. Only trees with a merchantable stick were harvested.</p>																																																							
63	42110 - Planted Red Pine	Sawtimber Well	6.7	62	111-140	N/A	<p>The red pine have 25-35 percent live crown ratio on average. The understory is minimal.</p> <p>2023 YOE Inventory BA Measurements: (140, 150, 70, 90, 100, 150, 100)</p> <p>This stand was 3rd row thinned in June of 2018 as part of Timber Sale Name: Red Mill; Timber Sale Number: 54-045-015-01.</p> <p>This stand was planted to red pine in the Fall of 1961 per planting form record.</p>																																																							
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64	4125 - Black, N. Pin Oak	Sapling Well	2.0	26	Immature	N/A																																																								
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65	310 - Herbaceous Openland	Nonstocked	1.8			No	This is herbaceous openland/upland shrub/grass. Shrub black cherry are slowly filling in the opening.																																																							
66	4310 - Pine, Oak Mix	Sawtimber Well	5.9	78	81-110	N/A	The white pine is more dominate to the south and the oak is more dominate to the north. This stand makes for diverse structure and acts as a wildlife travel corridor.																																																							
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67	42290 - Natural Mixed Pine	Sawtimber Well	3.2	66	51-80	N/A																																																								
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68	123 - Other High Intensity Urban	Nonstocked	2.5			No	Miller Creek CPF (Processing Facility)Riverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman A3-32 SWDPermit No.51406 M.P.S.C. No. ?																																								
69	3102 - Grass	Nonstocked	1.0				Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 6-32Permit No.51334 M.P.S.C. No. 8170																																								
70	310 - Herbaceous Openland	Nonstocked	1.2			No	This stand could be worked up for wildlife planting.																																								
71	500 - Water	Nonstocked	1.2			No	This is Sucker Creek. The water is very shallow with an unstable muck bottom.																																								
72	310 - Herbaceous Openland	Nonstocked	2.2			No	This stand could be worked up for wildlife planting.																																								
73	4130 - Aspen	Sapling Well	11.7	6	Immature	N/A	The aspen is doing well. Scattered legacy red pine and white pine are present. The harvest of this stand was completed in November of 2017 as part of Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01. Red pine, white pine, and cedar were retained.																																								
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74	42220 - Natural Jack Pine	Poletimber Medium	5.8	44	1-50	N/A	This stand is about half and half upland and lowland.																																								
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75	4130 - Aspen	Sapling Well	12.9	5	Immature	N/A	The harvest of this stand was completed in June of 2018 as part of Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01. Red pine, white pine, cedar, and hemlock were retained.																																								
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76	6120 - Lowland Cedar	Sawtimber Well	1.6	138	171-200	N/A	This is a nice stand of cedar, protected from windthrow by the stands to the east and south. This stand is too wet to harvest, and it adds diversity and thermal cover for wildlife to the area.																																								
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77	4133 - Aspen, Mixed Pine	Sapling Well	16.9	17	Immature	N/A	Areas of row planted red pine are present. Completion report records show that 11 acres of the Miller Time Mix sale were planted to red pine in October of 2006. This stand was harvested as part of a sale closed out in August of 2006, Timber Sale Name: Miller Time Mix; Timber Sale Number: 54-008-05-01.																																																						
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78	42210 - Natural Red Pine	Sawtimber Well	1.3	101	111-140	N/A	This stand adds diversity to the area.																																																						
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79	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.9	57	81-110	N/A	The third of the stand east of the forest road is dominated by smaller pole sized aspen.																																																						
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80	4125 - Black, N. Pin Oak	Sawtimber Medium	5.6	96	51-80	N/A	This is some of the largest oak in the compartment. The oak seems fairly healthy for their size and age considering the soil type. This stand was harvested as part of a sale closed out in August of 2006, Timber Sale Name: Miller Time Mix; Timber Sale Number: 54-008-05-01. All aspen, red maple, and jack pine were harvested.																																																						
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81	4130 - Aspen	Sapling Well	5.7	5	Immature	N/A	The harvest of this stand was completed in June of 2018 as part of Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01. Red pine, white pine, and cedar were retained.																																																						
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82	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	2.3	51	1-50	N/A	Keep this stand separate from the surrounding stand to the south due to its legacy type tree supercanopy, and the fact that second age trees lack diameter.																																															
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83	6124 - Lowland Spruce-Fir	Poletimber Well	8.9	138	81-110	N/A	This stand is too wet to harvest. The cedar are central to the stand with the edges being more dominate to spruce and fir.																																															
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84	4319 - Mixed Upland Forest	Sawtimber Well	1.6	135	141-170	N/A	Legacy white pine are present throughout the stand. This stand is upland but borderline lowland.																																															
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85	4130 - Aspen	Poletimber Well	9.2	52	81-110	N/A	Legacy white pine and red pine are present. There is a lowland pocket of smaller pole size aspen to the SW. There is an inclusion pocket of older pine/oak to the SE and the NW edge is also a pine inclusion pocket.																																															
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86	6120 - Lowland Cedar	Sawtimber Well	2.0	138	141-170	N/A	This pocket of cedar adds diversity to the area.																																															
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88	6113 - Lowland Maple	Sawtimber Medium	10.3	58	51-80	N/A	This stand has drainages throughout, pockets of dog hair thick balsam fir (west and central), and somewhat older timber (north/northwest).																																																								
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89	6113 - Lowland Maple	Sapling Well	4.7	39	1-50	N/A	Pockets of log/pole sized trees are present. Focus management on the dominate sapling class. Some areas are too wet to harvest. Future management of this stand will prove difficult due to the maze of lowland areas. The red maple are growing very slowly, due to the saturated soil and retention trees.																																																								
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90	6120 - Lowland Cedar	Sawtimber Well	9.1	120	Unspecified	N/A																																																									
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91	6112 - Lowland Aspen	Sawtimber Well	43.9	51	81-110	N/A	The is a maze of wet pockets/veins within the stand; some dominate to lowland shrub; others with minimal timber tree density. There is a small beaver dam at the east end of the stand on the east edge of a lowland shrub pocket. Forest Treatment Proposal records show that this stand was clear-cut around 1972. Records indicate that the southern edge of the stand, south of the E-W forest road, had merchantable aspen, maple, and pine harvested in 1987, totaling 18 acres total across the southern edge of Compartment 58.																																																								
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92	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.8	71	51-80	N/A	This stand was originally mapped as 3 stands but was combined for management purposes. There is a lowland cedar pocket west and central. The northeast portion of the stand is pole size lowland red maple, aspen, and balsam fir.																																																			
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93	4319 - Mixed Upland Forest	Sawtimber Well	4.1	64	51-80	N/A	This stand sits on a steep western aspect slope.																																																			
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94	4130 - Aspen	Poletimber Well	3.4	40	51-80	N/A	The southern portion of this stand is long term retention for the harvest to the east. The southern third to half of the stand is lowland. Due to the small size of the stand the age was estimated.																																																			
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95	4122 - Oak, Pine	Sawtimber Well	1.1	92	81-110	N/A	This stand is what other oak - jack pine dominate stands in the area would be if left untouched. Lots of coarse woody debris present.																																																			
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96	4310 - Pine, Oak Mix	Poletimber Well	1.4	106	81-110	N/A	Red pine legacy trees are present. This stand is long term retention for the stand to the west from Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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97	4130 - Aspen	Poletimber Well	7.2	51		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log/XLog	16	
Black/Red (Hybrid) Oak	10	Pole/Log	8	
Bigtooth Aspen	80	Pole/Log	8	51
Red Maple	3	Pole	7	
White Pine	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	Variable	Sapling
Red Maple	Low	Variable	Sapling

98	4131 - Aspen, Oak	Poletimber Well	2.6	106	51-80	N/A	This stand borders Sucker Lake. This stand is an even mix of lowland and upland.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole	11	
Black/Red (Hybrid) Oak	20	Log	15	106
Paper Birch	5	Pole/Log	8	
Balsam Fir	10	Pole/Log	8	
Quaking Aspen	40	Pole	7	106

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub
Michigan Holly	Medium	5 - 10 feet	Tall Shrub

99	6225 - Bog	Nonstocked	1.0	0		No	This is low density jack pine in a bog with lowland shrub at the north end.
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100	42100 - Planted White Pine	Sawtimber Poor	8.0	55	1-50	N/A	Legacy white pine and red pine are present. The underplanting of red pine can be seen in the leaf off imagery. Completion report records show that 11 acres of the Miller Time Mix sale were planted to red pine in October of 2006. This stand was harvested as part of a sale closed out in August of 2006, Timber Sale Name: Miller Time Mix; Timber Sale Number: 54-008-05-01. All oak, aspen, maple, and jack pine were harvested.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	XLog/Log	18	
White Pine	95	Log/XLog	16	55

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Sapling
Bigtooth Aspen	Medium	>20 feet	Sapling
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Pine	Medium	10 - 20 feet	Seeding

101	4130 - Aspen	Poletimber Well	1.2	51	81-110	N/A	This stand is long term retention for the stand to the south from Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Pole/Sapling	5	
White Pine	1	Log	13	
Quaking Aspen	73	Pole	8	51
Black/Red (Hybrid) Oak	10	Log/Pole	11	
Red Maple	10	Pole/Log	8	
Red Pine	1	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 1.6 58 51-80 N/A Larger timber is present in the east portion. Most of this stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	48	Log/Pole	10	58	Red Maple	Medium	>20 feet	Sapling
Balsam Fir	20	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	20	Pole	6					
White Pine	2	Log	15					
Northern White Cedar	10	Log/Pole	11					

103 4130 - Aspen Poletimber Well 0.8 58 81-110 N/A This stand is long term retention for the stand to the south from Timber Sale Name: Miller Sucker; Timber Sale Number: 54-044-015-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		White Pine	Medium	Variable	Sapling
Quaking Aspen	30	Pole/Log	8	58	Red Maple	Low	Variable	Sapling
Bigtooth Aspen	50	Log/Pole	11	58				
White Pine	10	Log/XLog	16					

104 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 2.9 70 51-80 N/A Miller Creek runs the length of the west edge of the stand. Most of this stand is on a western aspect slope with some lower ground adjacent to the creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	2	Log/Pole	13		Green Ash	Low	Variable	Sapling
Sugar Maple	3	Log/Pole	12		Dogwood (spp.)	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	20	Log/Pole	10		Balsam Fir	Medium	Variable	Pole
Black/Red (Hybrid) Oak	5	Log/Pole	12					
Balsam Fir	34	Log/Pole	10	70				
Paper Birch	5	Pole	8					
Northern White Cedar	1	Log	15					
Red Maple	15	Pole/Log/Sap	8					
White Pine	5	Log/XLog	16					
Quaking Aspen	10	Log/Pole	11					

105 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 9.4 30 51-80 N/A The canopy tree species composition varies throughout. The northeastern 2 acres is log sized timber. A vein of cedar runs NW-SE in the northern half of the stand. Pockets of lowland shrub are present in the south half of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	3	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Red Maple	20	Pole	5					
Jack Pine	5	Pole/Sapling	5					
Quaking Aspen	32	Pole	5	30				
White Pine	10	Pole	8					
Balsam Fir	10	Pole	6					

106 310 - Herbaceous Openland Nonstocked 1.0 Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 1-30Permit No.50675 M.P.S.C. No. 7690



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
107	310 - Herbaceous Openland	Nonstocked	1.0			Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 14-30Permit No.50679 M.P.S.C. No. 7694																																								
108	310 - Herbaceous Openland	Nonstocked	0.9			Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 6-31Permit No.51117 M.P.S.C. No. 8165																																								
109	310 - Herbaceous Openland	Nonstocked	0.9	0		Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 1-32Permit No.58757 M.P.S.C. No. ? Not on sign																																								
110	3104 - Degraded	Nonstocked	1.1	0		Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman A2-32Permit No.58758 M.P.S.C. No. ? Not on sign																																								
111	310 - Herbaceous Openland	Nonstocked	0.8																																											
112	3102 - Grass	Nonstocked	0.6			Well SiteRiverside Energy LLC(231) 995-4000, (989) 705-7665ST. Hillman 9-30Permit No.50678 M.P.S.C. No. 7693																																								
113	623 - Emergent Wetland	Nonstocked	3.2		Immature	No	From south to north this stand is low density trees/wet meadow/emergent wetland/lowland shrub. Cattails dominate the northern half of this stand.																																							
115	6113 - Lowland Maple	Sawtimber Well	8.0	90	51-80	N/A	This stand is essentially a small maple floodplain.																																							
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116	42220 - Natural Jack Pine	Poletimber Poor	2.3	36	1-50	N/A	This is a wildlife opening that has been slowly filling in with open grown, bushy jack pine.																																							
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117	6132 - Mixed Lowland Forest with Cedar	Sawtimber Poor	4.2	99	1-50	N/A	A 1-2 ft wide tributary stream to Miller creek runs west-east through the northern portion of this stand.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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118 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 3.4 93 51-80 N/A This stand sits on a steep western aspect slope.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Pole/Sapling	6	
White Oak	20	Log/XLog	16	
Bigtooth Aspen	20	Log	14	93
Red Maple	20	Log	12	
White Pine	15	XLog/Log	20	
Black/Red (Hybrid) Oak	10	Log/XLog	16	

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

119 42200 - Natural White Pine Poletimber Well 1.6 57 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Pole	8	
White Pine	70	Pole/Log	8	57
Jack Pine	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling

120 42220 - Natural Jack Pine Poletimber Well 26.2 47 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	78	Pole	7	47
White Pine	1	Log	12	
Black/Red (Hybrid) Oak	20	Pole/Sapling	6	
Red Pine	1	Log/Pole	11	

This stand is separated from the stand to the south due to the presence of oak. The density of jack pine in this stand can be seen in the leaf off imagery.

121 4125 - Black, N. Pin Oak Sawtimber Well 17.8 109 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	1	Log	14	
Quaking Aspen	21	Pole	6	
Black/Red (Hybrid) Oak	73	Log/Pole	11	109
Red Pine	5	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Jack Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling

The oak in this stand is aging out and dying.

122 42111 - Planted Red Pine, Mixed Deciduous Poletimber Well 5.3 62 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	70	Pole/Log	9	62
Black/Red (Hybrid) Oak	30	Log	15	93

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling

This red pine is somewhat smaller diameter than the red pine to the north that it was planted with due to the time it spent suppressed. The red pine was released as part of a harvest on the stand to the south in 2012.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
123	4122 - Oak, Pine	Sawtimber Medium	13.5	106	51-80	N/A	The oak and jack pine are reaching the end of their life cycle and slowly dying off.																																														
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124	4122 - Oak, Pine	Sawtimber Well	32.9	106	51-80	N/A	This stand was previously part of the stand to the northwest but was separated out due to the stand age difference. The jack pine composition in the overstory is higher south of Miller Creek Road.																																														
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125	42250 - Pine, Oak	Poletimber Well	17.6	50	51-80	N/A	This stand was separated from the larger Stand 51 to the northwest due to the line of older timber in between.																																														
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126	42250 - Pine, Oak	Poletimber Well	17.3	50	51-80	N/A	This stand was split off from the stand to the west due to it being slightly more diverse. This stand could be merged with the stand to the west. Consider the remnant red pine/legacy red pine when conducting management in this stand in the future.																																														
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Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																		
Red Pine	Trace	Variable	Sapling																																																		
127	6120 - Lowland Cedar	Sawtimber Well	2.9	138	171-200	N/A	This is a nice healthy stand of mature cedar.																																														
<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>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>3</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>85</td> <td>Log/Pole</td> <td>11</td> <td>138</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Log/Pole	12		Black Spruce	2	Pole/Log	9		Paper Birch	3	Log/Pole	11		Northern White Cedar	85	Log/Pole	11	138	Balsam Fir	5	Pole/Log	8																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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128	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.3	50	51-80	N/A	This lowland edge protects the lowland cedar/lowland spruce-fir to the east from windthrow. Pole timber is in the south with log sized trees to the north.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole/Sapling	6	
Red Maple	45	Pole/Log/Sap	8	50
Black Spruce	10	Pole/Log	8	
Black/Red (Hybrid) Oak	15	Log/Pole	11	
Quaking Aspen	5	Log/Pole	10	
White Pine	5	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

129	622 - Lowland Shrub	Nonstocked	0.6	0		No	
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130	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.5	75	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Pole/Sapling	5	
Hemlock	2	Log	14	
Bigtooth Aspen	30	Log	14	75
White Pine	18	Log	14	
Red Maple	30	Pole	8	
Red Pine	5	Log/XLog	16	

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