



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54104

Entry Year 2026

Acreage: 1,288

County: Alpena

Management Area: Huron Sandy Lake Plain

Stand Examiner: Dale Parris

Legal Description:

T31N R07E Sections 25, 26, and 27

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Huron Sandy Lake Plain Management Area (HSLPMA) 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 2026 YOY in the HSLPMA 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:

The soil/soil drainage in Compartment 104 varies by region. The western third of the compartment around Indian Reserve Road has mostly upland soils. North-south stretching bands of Au Gres sand (somewhat poorly drained), Rubicon sand (excessively drained), and Croswell sand (moderately well drained) form the major soil types for this area. The central region of the compartment is dominated by the poorly drained Deford Muck. The soil in the eastern third of Compartment 104 is mainly comprised of the moderately well drained Proper-Deford-Rousseau complex. The very poorly drained Tawas muck is present in some of the lowest ground areas of the compartment.

The topography in Compartment 104 is generally flat with slightly rolling hills.

The compartment consists of several large low areas in the central area and some ridges in the East part of the compartment while the west end is mostly flat terrain. There is a large, mounded area in the central part of the compartment that is an old, capped landfill.

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

A mixture of residences and businesses border the northern edge of Compartment 104 along M-32. Compartment 104 is bordered by additional state land to the south and east. Large acre recreational property borders the compartment to the west. The P K Fletcher Gun Club and Girl Scouts Camp Woodland sit within the compartment on the west side of Indian Reserve Road. An old landfill is located centrally in Compartment 104, south of the Alpena DNR Field Office and the Alpena Resource Recovery Facility.

Unique Natural Features:

There are not any unique natural features to speak of in Compartment 104. There are some large areas of poorly drained lowland deciduous with conifer stands centrally in the compartment. Small acreage naturally regenerated mixed pine stands are scattered throughout the compartment. These are not to be confused with planted red pine and white pine stands that are also present throughout.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) acknowledged known areas of concern within Compartment 104. 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 4 species historically being in or near Compartment 104 that require consideration when implementing forest management strategies. These species are satiny willow (*Salix pellita*: state threatened species), yellow banded bumble bee (*Bombus terricola*: state special concern species), northern long-eared bat (*Myotis septentrionalis*: federally endangered/state threatened species), and little brown bat (*Myotis lucifugus*: state threatened species).

Watershed and Fisheries Considerations:

There are no major water bodies within the compartment. Best management practices are to be followed when conducting forest management near lakes, streams, and rivers.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include American woodcock, ruffed grouse, snowshoe hare, wild turkey, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest and large open grassland complexes; the retention of large, over-mature trees and snags; and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial production of metallic minerals in this part of the state. The closest known active aggregate operations are more than three miles away, but there is evidence of past operations in the vicinity of the compartment. Potential for economic development of aggregate material in the compartment may be limited due to wetlands. There is history of production of sand & gravel and bedrock limestone in the area, both east and west of the compartment. The compartment is north of the Antrim Shale gas play, and the Antrim Shale is mostly absent here. No known potential exists for oil & gas from other known producing formations. There has been no recent well permit activity nor oil & gas leasing activity involving State-owned mineral rights in or around the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access to Compartment 104 is limited. The western third of the compartment is accessible by foot from Indian Reserve Road. Due to private land holdings, access to Compartment 104 from M-32 to the north is limited. Access to the eastern third of Compartment 104 is from Norway Ridge Trail east from Indian Reserve Road. A half mile to the south, Norway Ridge Trail parallels the central region of Compartment 104.

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 104. 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, turkey, and bear hunting opportunities are available within Compartment 104 in season with a valid license. Trapping and 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 trappers.

The Hillman-Alpena State Hiking Trail and LP4/LP461/LP462 Snowmobile Trails are recreation trails that traverse through Compartment 104 offering recreational opportunities seasonally. The Hillman-Alpena State Trail is open to snowmobiles seasonally from December 1 through March 31 and is otherwise closed to motorized traffic the remainder of the year. Outside the snowmobile season the Hillman-Alpena State Trail is open to hiking and biking. Motorized trails are only to be used with the proper registration and licensing.

Fire Protection:

In the case of wildland fire, Compartment 104 is within the response area of the Alpena DNR Fire Taskforce/Atlanta Forest Management Unit and the Wilson Township Fire Department. The Alpena DNR Fire Task Force is located within the northern boundary of Compartment 104 off of M-32. The Alpena Task Force would typically be able to be on scene within 10-20 minutes after being dispatched depending on forest road access. Wilson Township Fire Department response time would likely be in the range of 15-30 minutes with their location being approximately 7 miles from the compartment. The Alpena Township Fire Department may also respond to fires in Compartment 104 due to its close proximity to the compartment and would typically have response times of around 15-30 minutes. Depending on the location of a fire within the compartment, fire response times could be hindered due to poor access.

Additional Compartment Information:

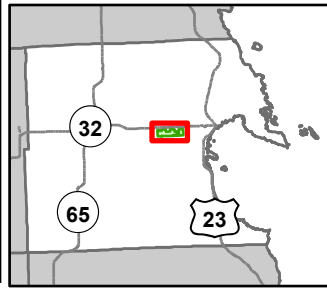
The following reports from the Inventory are attached:

- 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**

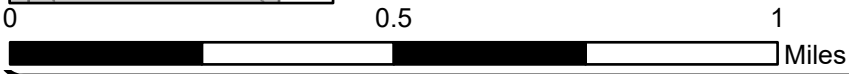
The following information is displayed, where pertinent, on the attached compartment maps:

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

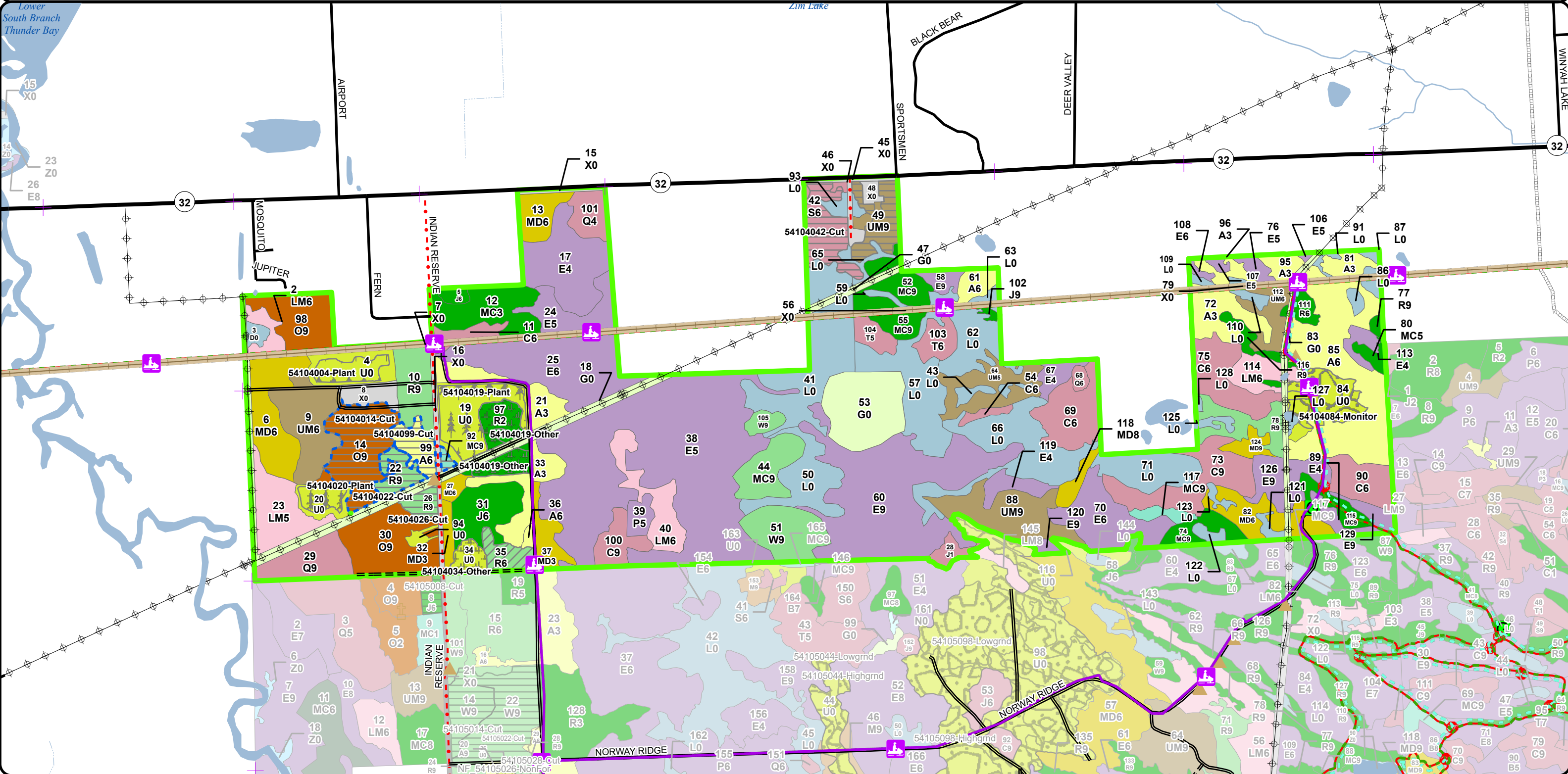
Cover Type & Treatments Map



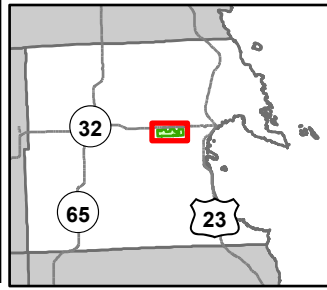
Compartment: 54104
 T31N, R7E, Sec: 25-27
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Huron Sandy Lake Plain
 YOE: 2026
 Acres: 1288.2 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 09/09/2024
 Map Phase: Web Post



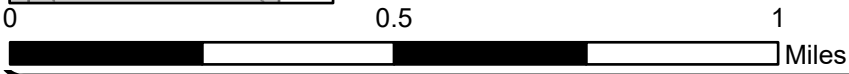
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|------------------------------|---------------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| Berms | DNR - Secondary Forest Road | Lakes and Rivers | Thinning (Crown, Low, Systematic) | 430 - Upland Mixed Forest |
| Gate | DNR - Forest Access Route | Pipeline | Regeneration Survey | 611 - Lowland Deciduous Forest |
| Cemetery | Federal / State Highway | Powerline | 412 - Oak Types | 612 - Lowland Coniferous Forest |
| Sign | Federal / State / County - Paved Road | Compartment Boundary | 413 - Aspen Types | 613 - Lowland Mixed Forest |
| Remonumented Section Corners | County - Gravel Road | Treatments with Site Conditions | 419 - Mixed Upland Deciduous | 110 - Low Intensity Urban |
| Snowmobile Trails | Intermittent Stream | Other Treatment - See Comments | 421 - Planted Pines | 310 - Herbaceous Openland |
| Designated Bicycle Trails | Lake/Pond | Planting (Tree Species) | 422 - Natural Pines | 330 - Low Density Trees |
| Designated Snowmobile Trails | Perennial River | Clearcut (w/Reserves) | 429 - Mixed Upland Conifers | 622 - Lowland Shrub |



Stand Boundary Map

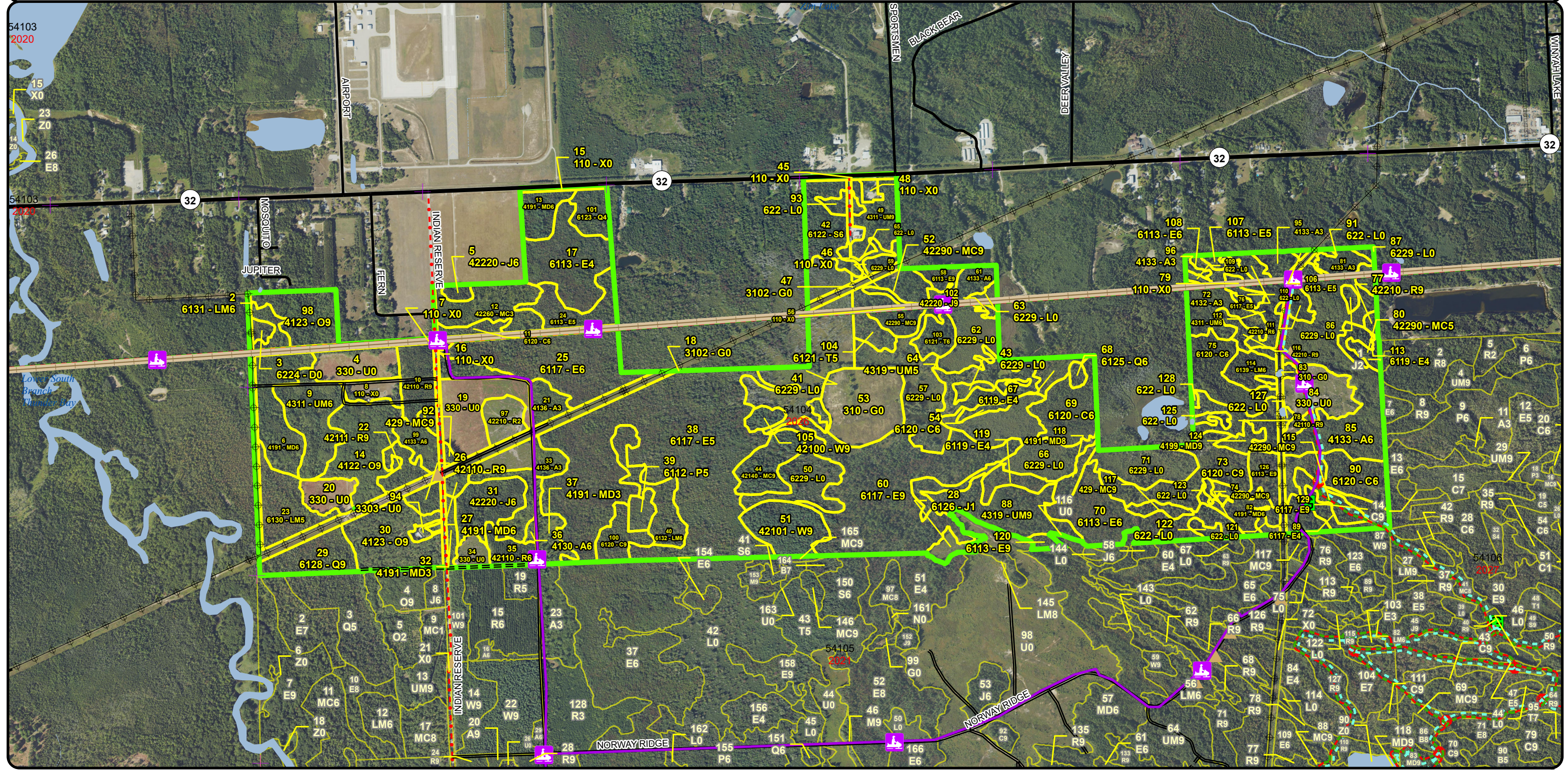


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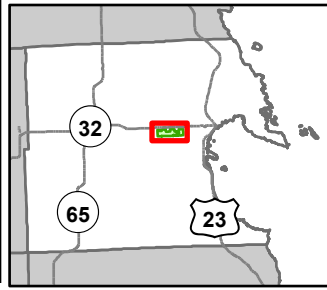


- Berms
- Gate
- Cemetery
- Sign
- Remonumented Section Corners
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries

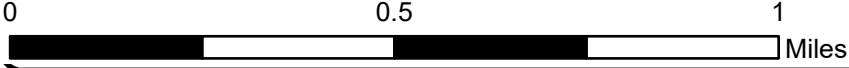
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Special Conservation Areas & Site Conditions Map

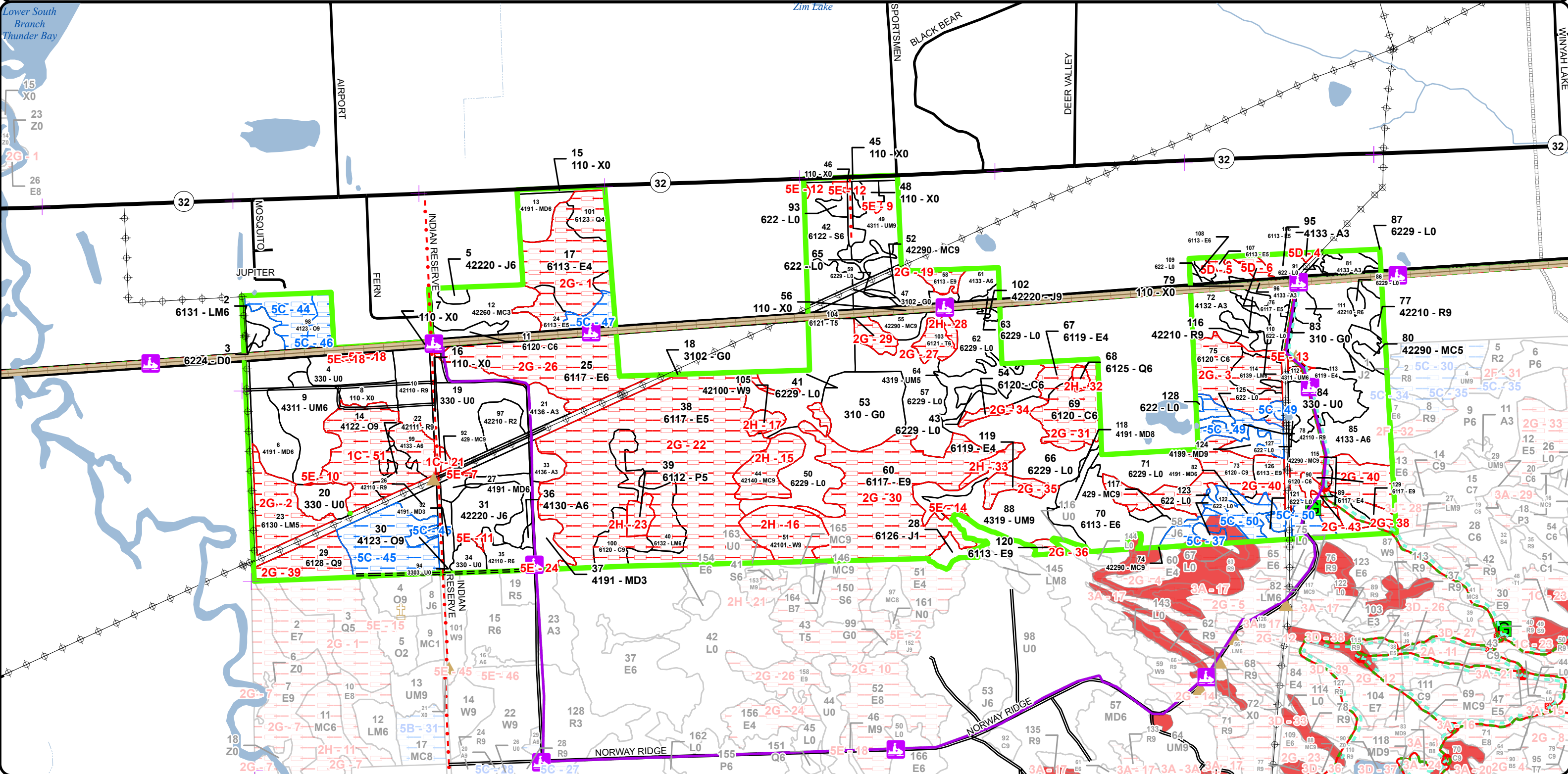


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- Berms
- Gate
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- Sign
- Remonumented Section Corners
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- SCA
- Available w/ Constraints

- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Trail - Trail Corridor



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 104 Year of Entry 2026



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	0	47	0	46	1	7	0	0	5	0	0	0	0	0	0	0	0	106
Cedar	0	0	0	0	0	0	0	0	0	0	16	4	2	35	21	0	0	0	78
Herbaceous Openland	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Jack Pine	0	4	0	0	0	17	0	0	1	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	7	0	0	0	0	2	0	0	0	13	0	0	0	22
Lowland Deciduous	0	0	0	0	4	189	26	1	78	2	19	12	0	0	0	0	0	3	333
Lowland Mixed Forest	0	0	0	0	0	13	20	0	0	0	0	0	0	0	0	0	0	8	41
Lowland Shrub	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	7	3	0	19	0	8	0	0	0	18	0	2	0	0	0	0	4	61
Natural Mixed Pines	0	0	17	3	0	0	0	12	0	11	0	0	7	0	0	0	0	0	50
Oak	0	0	0	0	0	0	0	0	0	0	0	0	47	16	0	0	0	0	63
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Red Pine	0	13	0	0	3	6	0	12	6	5	5	10	0	0	0	0	0	0	60
Tamarack	0	0	0	0	0	0	6	0	5	0	0	0	0	0	0	0	0	0	11
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	4
Upland Mixed Forest	0	0	0	0	0	43	0	0	0	33	0	0	0	0	0	0	0	0	76
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
White Pine	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Total	312	24	67	3	72	276	71	25	104	56	91	27	58	51	34	0	0	18	1287



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 104

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,288

Commercial Harvest - 34
 Harvests with Site Condition - 37
 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	7	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	13	0	0	0	0	0	0	0	0	13
Oak	23	0	0	0	0	0	0	0	0	23
Red Pine	10	0	0	0	6	0	0	0	0	16
Upland Conifers	1	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Total	65	0	0	0	6	0	0	0	0	71

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	71	0	28	0	0	13	15	0	0	127
Next Step	0	36	28	0	0	12	221	14	0	311
Total	71	36	57	0	0	12	234	29	0	439



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:

14	54104014-Cut	23.3	4122 - Oak, Pine	Sawtimber Well	112	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Retain 3 half acre pockets around large mast producing oak while ensuring the retention is stand representative overall. Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.</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 low to medium-stocked mix of red oak, red pine, red maple, aspen, balsam fir, spruce, and/or white pine.</p> <p><u>Other Comment:</u> Retention greater than 10 percent is acceptable if required by archaeology.</p> <p><u>Site Condition:</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

22	54104022-Cut	6.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	75	81-110	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.</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 red maple, oak, aspen, balsam fir, red pine, and/or white pine.</p> <p><u>Other Comment:</u> Retention is not necessary due to the small size of the stand.</p> <p><u>Site Condition:</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

26	54104026-Cut	3.8	42110 - Planted Red Pine	Sawtimber Well	81	141- 170	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.</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, red pine, jack pine, white pine, balsam fir, and/or spruce.</p> <p><u>Other Comment:</u> Retention is not necessary due to the small size of the stand. This treatment should not affect Camp Woodlands to the south.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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35	54104035-Cut	6.2	42110 - Planted Red Pine	Poletimber Well	48	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120 BA. Do not harvest more than 1/3 of the BA in any one area.

Specs:

Include spec to protect the snowmobile trail and its users.

Next Step

Treatments:

Acceptable This is not a regeneration harvest.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

42	54104042-Cut	13.3	6122 - Black Spruce	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Retention is designated at the north end of the stand.

Retain and protect legacy trees where present and feasible for conducting harvest operations. Do not retain legacy trees where they are a blowdown threat to power lines, roadways and/or buildings.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any low to medium stocked mix of red maple, black spruce, jack pine, white pine, red pine, aspen, paper birch,

Regen:

balsam fir, and/or cedar.

Other

Access would be from M-32 or recycling center road due to low hanging electrical wires on M-32.

Comment:

Areas of the stand are excluded from the treatment for visual enhancements.

Site Condition:

Proposed Start Date: 10/1 /2025

49	54104049-Cut	10.2	4311 - Pine, Aspen Mix	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear-cut with retention.

Specs:

Retention is to be a combination of single tree and pocket retention and is to be stand representative. Single tree retention is not to exceed 10 BA overall but can exceed 10 BA in areas. A retention pocket is marked out of the treatment centrally.

Include Dead and Down spec 5.2.4.7.

Protect pine regeneration to promote future strand diversity.

Include spec to protect the snowmobile trail and its users.

Retain and protect legacy trees where present and feasible for conducting harvest operations. Do not retain legacy trees where they are a blowdown threat to power lines, roadways and/or buildings.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Timber sale access would be through the Alpena Field Office driveway.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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
92	54104092-Cut	1.0	429 - Mixed Upland Conifers	Sawtimber Well	108	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Other, Pre-Commercial Thinning - Hand; Pesticide, Hand Application <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any low to medium stocked mix of aspen, red maple, white pine, oak, jack pine, and/or red pine.</p> <p><u>Other Comment:</u> Retention is not necessary due to the small size of the stand. This stand is dominated by non-native Norway spruce. It was left as retention for the stand harvested to the north but is now being removed to prevent the future seeding in of non-native Norway spruce in adjacent areas. This treatment includes approval to remove any future Norway Spruce regeneration in the stand via chemical, or mechanical means as needed.</p> <p><u>Site Condition:</u> Other Dept./Div. Processes <u>Proposed Start Date:</u> 10/1 /2025</p>											
99	54104099-Cut	6.9	4133 - Aspen, Mixed Pine	Poletimber Well	53	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut. <u>Specs:</u></p> <p>Retention is not necessary due to the small size of the stand.</p> <p>Include Dead and Down spec 5.2.4.7.</p> <p>Place slash high and wide centered on oak stumps to protect oak regeneration from deer browse.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, oak, balsam fir, red pine, white pine, and/or spruce.</p> <p><u>Other Comment:</u> Retain and protect legacy trees where present and feasible for conducting harvest operations. Do not retain legacy trees where they are a blowdown threat to power lines and roadways.</p> <p><u>Site Condition:</u> Other Dept./Div. Processes <u>Proposed Start Date:</u> 10/1 /2025</p>											

Approved Treatments:

4	54104004-Plant	6.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Herbicide Use; ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Well stocked stand of red pie with minor components of oak aspen and red maple</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u> <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
97 54104019-Other	11.3	42210 - Natural Red Pine	Sapling Medium	6	Immature	Other	Other	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Preform a pre-commercial hand thin to release the natural red pine regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Monitoring, Artificial Treatments: Regen(3yr); SitePrep, Roller Chopping; Monitoring, Natural Regen (Re-Inventory) <u>Acceptable</u> well stocked stand of planted red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
19 54104019-Plant	16.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> well stocked stand of planted red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
20 54104020-Plant	4.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> ; Monitoring, Herbicide Use; ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Well stocked RP plantation. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
34 54104034-Other	4.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Other	Other	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Preform a pre-commercial hand thin to release the natural red pine regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Herbicide Use <u>Treatments:</u> <u>Acceptable</u> Moderately to fully stocked natural red pine. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <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
84 54104084-Monitor	13.0	330 - Low-Density Trees	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Perform a natural regeneration check.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Other, Pre-Commercial</p> <p><u>Treatments:</u> Thinning - Hand</p> <p><u>Acceptable</u> Stocking that meets minimum natural red pine criteria.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 127.2
Acres Proposed:

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris: Examiner

Compartment: 104
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Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
					5C	1C	2G	2H	5D	5E	
106	99	0	7	Aspen		7					0
79	4	0	75	Cedar			75				
59	59	0	0	Herbaceous Openland			0				
21	21	0	0	Jack Pine							0
60	59	0	0	Low-Density Trees							0
4	0	0	4	Lowland Aspen/Balsam Poplar				4			
22	0	0	22	Lowland Conifers			21	2			
296	28	5	263	Lowland Deciduous	5		255	4	4		
41	5	0	36	Lowland Mixed Forest			36				0
160	160	0	0	Lowland Shrub							
14	13	0	1	Lowland Spruce/Fir							1
62	47	14	0	Mixed Upland Deciduous	14						0
49	42	7	0	Natural Mixed Pines	7						
63	0	39	24	Oak	39	23					1
12	0	0	12	Planted Mixed Pines				12			
61	42	10	9	Red Pine	10	6	2				1
11	0	0	11	Tamarack			10	1			
2	2	0	0	Treed Bog							
4	3	0	1	Upland Conifers		1					
75	74	0	1	Upland Mixed Forest			0				1
31	31	0	0	Urban							
19	0	0	19	White Pine			0	19			
1,252	690	75	487	Total Forested Acres	75	37	398	42	4		5
	55%	6%	39%	Relative Percent							

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5D: Unproductive Forest Land	0	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: This is sparsely treed shrub dominate lowlands. The timber present is generally of poor quality. Glossy buckthorn is an issue in the shrub layer.							
5	Unavailable	5D: Unproductive Forest Land	1	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: This is sparsely treed shrub dominate lowlands. The timber present is generally of poor quality. Glossy buckthorn is an issue in the shrub layer.							
6	Unavailable	5D: Unproductive Forest Land	3	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: This is sparsely treed shrub dominate lowlands. The timber present is generally of poor quality. Glossy buckthorn is an issue in the shrub layer.							
7	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. It was originally part of the harvest to the East.							

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9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is proposed long term retention for the surrounding harvest.							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. It was originally part of the harvest to the south but was merged with the stand to the north to meet stand mapping standards.							
11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. This is retention from the clear-cut harvest to the southwest.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for the proposed treatment to the east.							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This was long term retention for the harvest to the southeast.							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	1C: Other dept or div proc/practices	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold off on treatments. See comments below.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	148	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							

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23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for what was Stand Number 37; Sale No. 54-51-16; Sale Name: 2 Four D.							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There are some pockets that have high enough ground to harvest, but overall, this stand is too wet to harvest.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							

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30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is blocked from harvest by surrounding lowlands.							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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47	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	1C: Other dept or div proc/practices	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold off on treatments. See comments below.							

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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
2	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	4.2	54	51-80	N/A	This stand could potentially be managed with and/or merged with the stand adjacent to the east. Scattered large Xlog size red and white pine are present throughout. The dominance of pole/sapling/log size red maple in the canopy differentiates this stand from the adjacent stand to the east.																																																																					
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3	6224 - Treed Bog	Nonstocked	1.9			No	This stand is closing in with conifer over time and is approaching 25 percent canopy cover. There is mostly scattered lowland shrub, black spruce, jack pine, balsam fir, and white pine with a ground covering of leatherleaf and some Labrador tea at the stand edge.																																																																					
4	330 - Low-Density Trees	Nonstocked	12.1	0	Unspecified	4211 - Planted Red Pine	Skidder site prep spraying completed 7/30/2024 Trenching of this site was completed on 5/20/23. Roller chopping complete 8/19/2022. During the Inventory of 2024 this stand was 70 percent stocked by area. Aspen dominated most stocked areas with lesser components of red oak, red maple, jack pine, and red pine in descending order of dominance.																																																																					
5	42220 - Natural Jack Pine	Poletimber Well	2.0	42		N/A	This stand was cut in the early 80's for the airport to the north.																																																																					
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6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.3	37	1-50	N/A	The stand wavers between pockets dominated by aspen, red maple, balsam fir, and jack pine with the largest pockets being dominated by aspen and red maple, followed by balsam fir. Lowland pockets are present throughout. All trees with a merchantable stick, with the exception of oak, were harvested in a sale closed in May of 1987; Sale Name Fletcher's West; Sale No.: 54-015-86-01																																																																					
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Quaking Aspen	31	Pole/Sapling	6	37																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	110 - Low Intensity Urban	Nonstocked	9.2			No	railroad grade/snowmobile trail
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8	110 - Low Intensity Urban	Nonstocked	5.7			No	This is a trap and skeet shooting range.
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9	4311 - Pine, Aspen Mix	Poletimber Well	20.3	45	51-80	N/A	This stand alternates between pockets of jack pine and pockets of aspen. There is bigtooth aspen to the east and quaking aspen to the west.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Oak					5	Pole/Sapling	5		Red Oak			Low	Variable	Sapling	
Bigtooth Aspen					24	Pole/Sapling	6	45	White Pine			Trace	Variable	Sapling	
White Pine					10	Log/Pole	12		Balsam Fir			Low	Variable	Sapling	
Red Pine					2	Pole	8								
Balsam Fir					2	Pole/Sapling	6								
Jack Pine					33	Pole/Sapling	6	45							
Quaking Aspen					24	Pole/Sapling	6								

10	42110 - Planted Red Pine	Sawtimber Well	12.4	68	141-170	N/A	2026 YOE Inventory BA Measurements: (160, 140, 190, 110, 130) Per planting records this stand was planted to red pine in 1956. 20-25% live crown ratio on average This stand was thinned to 120 BA in a sale closed in late 2017. This stand was 3rd row thinned in July of 97.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Bigtooth Aspen					2	Log/Pole	11		Norway Spruce			Low	Variable	Sapling	
White Pine					4	Log	12		Red Oak			Low	Variable	Sapling	
Red Maple					2	Log	11		Red Maple			Medium	Variable	Sapling	
Red Oak					2	Log	13		White Pine			Low	Variable	Sapling	
Red Pine					90	Log	12	68	Balsam Fir			Low	< 5 feet	Sapling	

11	6120 - Lowland Cedar	Poletimber Well	4.0	106		N/A	This stand is a series of inclusion pockets; small young dense pole size cedar to the west, pole/log size cedar centrally, lowland deciduous to the east.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Balsam Fir					2	Pole/Sapling	5		Michigan Holly			Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar					60	Pole/Log/Sap	9	106	Balsam Fir			Low	Variable	Sapling	
Red Pine					2	Pole/Sapling	6								
Quaking Aspen					10	Pole/Log	8								
Tamarack					3	Sapling	4								
Red Oak					1	Sapling/Pole	4								
Paper Birch					5	Pole	7								
Red Maple					17	Pole/Sap/Log	6								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
12	42260 - Natural Pine, Mixed Deciduous	Sapling Well	17.3	15	Immature	N/A	The harvest of this stand was completed in December of 2008 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01. All trees with a merchantable stick were harvested with the exception of red pine, oak, and cedar.																																																							
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Quaking Aspen	13	Sapling	2	15																																																										
13	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.0	55	81-110	N/A	Centrally, the canopy is dominated by large white pine with suppressed red maple in the canopy and understory. The aspen component is mostly along the east and north edges.																																																							
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14	4122 - Oak, Pine	Sawtimber Well	24.1	112	111-140	N/A	Planting records indicate that 16 acres in this area was inter-planted to red pine in 1957; on the ground aging was used. There is pole/log size planted red pine that is mostly suppressed under the oak canopy throughout the stand. This stand looks to have seen a species removal/thinning of oak with a subsequent under planting of red pine. There is an oak cohort that regenerated naturally with the planted red pine. Some older naturally regenerated red pine is present. Most of the planted red pine is suppressed by the oak canopy. Trying to harvest the oak and thin the red pine would not be feasible based on the stand structure. The felled oak would damage the red pine. There are large log size oaks with pole/small log size oaks throughout. There are pockets/scattered pole size planted red pine throughout.																																																							
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15	110 - Low Intensity Urban	Nonstocked	1.6			No	M-32																																																							
16	110 - Low Intensity Urban	Nonstocked	5.1			No	Indian Reserve Road																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
17	6113 - Lowland Maple	Poletimber Poor	25.4	49	1-50	N/A	This stand is too wet to harvest and has low volume/tree density.																																																																	
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18	3102 - Grass	Nonstocked	23.3			No	Power transmission lines; mixed vegetation																																																																	
19	330 - Low-Density Trees	Nonstocked	19.4	0	Unspecified	No	Skidder site prep spraying completed 7/30/2024. Trenching was completed on 5/20/23. Roller chopping complete 8/19/2022. This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.																																																																	
20	330 - Low-Density Trees	Nonstocked	7.5	0	Unspecified	No	During the 2026 YOE Inventory, Aspen was evenly distributed throughout the stand as the major competition to the future planted red pine. Skidder site prep spraying completed 7/30/2024 Trenching of this site was completed on 5/20/23. Roller chopping complete 8/19/2022. This was part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16 that was closed out on 6/24/2018.																																																																	
21	4136 - Aspen, Mixed Conifer	Sapling Well	10.7	15	Immature	N/A	Stand did not meet objectives of natural jack pine. Accepted the current condition of aspen/jack pine at compartment review in 2016. The harvest of this stand was completed in December of 2008 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01. All trees with a merchantable stick were harvested with the exception of red pine, white pine, and oak in the northern portion and oak/green marked trees in the southern portion.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 6.0 75 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	67	Log/Pole	12	75
Quaking Aspen	5	Log/Pole	10	
Red Maple	3	Log/Pole	11	
Red Oak	25	XLog/Log	20	112

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

2026 YOE Inventory BA Measurements: (110, 100, 70, 150, 150, 40, 60) Planting records indicate that 6 acres in this area was planted to red pine in 1956; on the ground aging was used. This stand was separated out from the adjacent stands due to the red pine in this stand being somewhat less suppressed by a sparser oak canopy component. There appears to be three ages of red pine present. The west third of the stand appears to be naturally regenerated and is larger in diameter (average of 14 inches DBH at the time). The eastern third of the stand is small log size planted stock (where the age was taken/average of 12 inches DBH at the time). The northern third is large pole size and was likely planted with the pine adjacent to the north (average of 8 inches DBH at the time). During the most recent harvest it appears that a 3rd row thinning was completed. Residual rows were not thinned but could have used thinning. Subsequently, the red pine in the eastern and northern thirds tend to be in pockets that could use thinning. The northern third is ready for final harvest. Do to the overall described situation and the small size of the stand, it is suggested that the next harvest of this stand be a clear-cut.

based on two different oak ages taken and diameter difference in some red pine pockets being larger.

23 6130 - Fir, Aspen, Maple Poletimber Medium 15.8 59 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Pole/Log/Sap	7	59
Black Spruce	5	Pole/Log	8	
Paper Birch	5	Pole/Sapling	5	
Northern White Cedar	13	Pole/Sapling	6	
Balsam Fir	30	Sapling/Pole	4	
White Pine	2	XLog/Log	20	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
Tag Alder	Full	Variable	Tall Shrub
Balsam Fir	Low	Variable	Sapling

This stand had standing water throughout during the 2026 YOE Inventory. As such, an east edge call was made. Ash have died and fallen out of the canopy. Large pine and oak are present along the southeast point of the stand. This stand is too wet to harvest.

24 6113 - Lowland Maple Poletimber Medium 11.9 105 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole/Log	9	
Red Maple	70	Pole/Log/Sap	9	105
Paper Birch	5	Pole	7	
Balsam Fir	15	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Michigan Holly	High	5 - 10 feet	Tall Shrub

This stand is borderline too wet to harvest. The aspen can be found in a pocket in the southeast.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	36.6	49	51-80	N/A	There are some higher ground pockets with larger timber, but most of this stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	3	Log/Pole	11	
Red Pine	1	XLog/Log	18	
White Pine	1	XLog/Log	20	
Red Maple	56	Pole/Sap/Log	6	49
Paper Birch	22	Pole	7	
Balsam Fir	13	Pole/Sapling	5	
Black Spruce	2	Log	11	
Quaking Aspen	2	Log	12	

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

26	42110 - Planted Red Pine	Sawtimber Well	3.8	81	141-170	N/A	2026 YOE Inventory BA Measurements: (240, 190, 130) Red pine BA is highly variable and lower around outer edges.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	XLog/Log	21	
Red Pine	85	Log	13	81
Bigtooth Aspen	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	Variable	Sapling
Red Maple	Full	Variable	Sapling
White Pine	Trace	Variable	Sapling
Balsam Fir	Trace	Variable	Sapling
White Spruce	Trace	Variable	Sapling

27	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.3	112	81-110	N/A	This is a small oak dominate stand that was left out of adjacent harvests. Stand 32 to the south was likely very similar to this stand before it was harvested.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Log/Pole	11	
Jack Pine	5	Log/Pole	11	
Red Maple	10	Pole/Sapling	6	
Red Pine	12	Log/Pole/XLog	12	
Red Oak	58	Log	15	112
Bigtooth Aspen	10	Log/Pole	11	45

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

28	6126 - Lowland Jack Pine	Sapling Poor	3.7	6	Immature	N/A	The regeneration in this stand was determined to meet the 2/16/23 variance requirements during the 2026 YOE inventory.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Sapling	1	
Black Spruce	5	Sapling	1	
White Pine	35	Sapling	1	
Jack Pine	55	Sapling	1	6

Variance was approved on 2/16/23 to accept natural regeneration with optional next steps as follows: Accept the natural mixed pine regeneration with optional pre-commercial thinning and supplemental planting treatments to be implemented to release and promote pine as determined necessary for achieving a moderate to fully stocked stand of red pine, white pine, and/or jack pine. Acceptable Regeneration: Acceptable regeneration is a medium to well stocked mix of red pine, white pine, and/or jack pine, with a minimal deciduous component.

This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
29	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	13.3	130		N/A	Some areas are dominated by cedar and other areas are more deciduous/red maple dominate. This stand is too wet to harvest.																																																			
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30	4123 - Red Oak	Sawtimber Well	23.4	115	81-110	N/A	2026 YOE Inventory BA Measurements: (130, 100, 80, 50, 70, 80, 90, 70) Red Oak regenerated well from stump sprouts last harvest. A hiking pathway with blue DNR markers goes through the stand. There is an illegal trail running north-south through the west edge of the stand.																																																			
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31	42220 - Natural Jack Pine	Poletimber Well	14.7	44	51-80	N/A	This stand was all harvested together but is made up of 3, somewhat similar, inclusion pockets that should continue to be managed together as one stand. The southwest oval is more open grown and bushy, dominated by jack pine and red pine. The eastern half is dominated by tightly spaced jack pine with pockets of quaking aspen. The northern portion is dominated by aspen with a scattering of red, white, and jack pine. These areas can be differentiated well using the leaf off color infrared imagery.																																																			
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32	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	3.1	16	Immature	N/A	The harvest of this stand was completed in August of 2008 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01. Pre-harvest, this stand was probably very similar to Stand 27 to the north.																																																			
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33	4136 - Aspen, Mixed Conifer	Sapling Well	11.4	15	Immature	N/A	Stand did not meet objectives of natural jack pine. Accepted the current condition of aspen at compartment review. There a few scattered log size oak and red pine present. The harvest of this stand was completed in April of 2009 via Timber Sale Name: Reserved Pine; Timber Sale Number: 54-010-06-01.																																																		
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34	330 - Low-Density Trees	Nonstocked	4.1	0	Unspecified	4221 - Natural Red Pine	<p>Natural Regen survey completed May of 2023: Ran five transects in 4 acres; 1,936 red pine per acre on average with a average height of 2ft. An ocular estimate of 30% free to grow was made. The major competition was red maple with small jack pine starting to grow.</p> <p>Unexpected natural red pine regeneration occurred. May 2021 Natural Regeneration Survey Results: 4 acres, 4 plots Averaged 1,000 RP/acre and 350 WP/acre 1 and 2 year old seedlings about 6" – 1 foot tall Red Maple is the major competitor (4 - 9 feet tall) Please change treatment to skidder release (10/1/2020) The skidder herbicide application was completed on 9/23/21. -PUER 8/11/22 Comments: Spray application moderately successful. Red Maple and Aspen competition may continue to be an issue. Consider PCT after a few more years of pine establishment. Cause of pine mortality unknown. Late season spraying may be the cause of the failure. Continue to monitor as if stands were planted. Before Application: oak/Cherry 5%, Aspen 45%, RM 50%; Post Application: 80%, 30%, and 50% control respectively.</p> <p>This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.</p>																																																		
35	42110 - Planted Red Pine	Poletimber Well	6.2	48	81-110	N/A	2026 YOE Inventory BA Measurements: (160, 170, 80, 140, 130, 90) There is on average 25 percent live crown ratio where full rows are in place and it is greater in less dense areas. This stand was 3rd row thinned, and all other canopy species were harvested in a sale closed in November of 2017.																																																		
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36	4130 - Aspen	Poletimber Well	1.0	42		N/A	This stand was not harvested with the stand adjacent to the west.																																																		
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37 4191 - Mixed Upland Deciduous with Conifer Sapling Well 7.3 7 1-50 N/A

A proposal was made and approved through the 2026 YOE Compartment Review Process to accept the natural regeneration that came back as noted in the stand data. Even though there is a full stocking of white pine present, the white pine is not free to grow due the white pine being mostly over-topped by the dense and taller red maple regeneration.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	16	Sapling	1	
Balsam Fir	1	Sapling	1	
Red Oak	2	Sapling	1	
Quaking Aspen	10	Sapling	1	7
Red Maple	55	Sapling	1	7
Paper Birch	2	Sapling	1	
Red Pine	1	XLog/Log	20	
White Pine	8	XLog/Log	20	100
Jack Pine	5	Sapling	1	

Agreed Upon Regeneration at 2016 YOE Compartment Review: medium to well stocked stand of white pine with mixed deciduous; was not met due to the majority of the white pine not being free to grow due to being overtopped by red maple/aspens.

The uncut remnant/seed tree white pine were planted in 1924.

Estimated full stocking percent coverage by species during a March 2024 walk through:
 RM 70% Evenly Spaced out, 10+ feet tall
 WP 90% Evenly Spaced out, 2-3 feet tall
 QA 15% in Pockets, 10+ feet tall
 JP 5% in Pockets, 2-3 feet tall
 RP 2% in Pockets, 2-3 feet tall
 PB 2% in Pockets/Evenly Spaced out, 8+ feet tall

38 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 127.1 49 51-80 N/A

This stand is too wet to harvest. Timber volume is lower in the southeastern third of the stand. The basal area is highly variable throughout. The paper birch are dying and falling out of the canopy. The paper birch age is from the previous inventory was retained in the data.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Sap/Log	6	49	Michigan Holly	High	5 - 10 feet	Tall Shrub
Northern White Cedar	6	Log/Pole	11		Tag Alder	Medium	Variable	Tall Shrub
Quaking Aspen	3	Pole	6		Balsam Fir	Medium	Variable	Sapling
Black Spruce	1	Pole/Log	8					
Paper Birch	20	Pole	8	84				

39 6112 - Lowland Aspen Poletimber Medium 4.0 55 N/A

Various pockets were harvested out of this area. This stand was separated out due to its aspen and balsam fir dominance differentiating it from adjacent stands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	40	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Paper Birch	10	Pole/Sapling	6		Tag Alder	Low	Variable	Tall Shrub
Red Maple	10	Pole/Sapling	6		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	40	Pole	6	55				

40 6132 - Mixed Lowland Forest with Cedar Poletimber Well 13.2 49 81-110 N/A

This stand was kept separate due to its higher cedar content. This stand could potentially be merged into the surrounding stand. Two pockets, adjacent to the northeast, have seen management and fit well, species wise, into the adjacent stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	33	Pole/Sap/Log	7	49	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Paper Birch	15	Pole	8		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	5	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	25	Pole/Sapling	6					
Black Spruce	2	Pole	8					
Northern White Cedar	20	Log/Pole	11	125				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
41	6229 - Mixed lowland shrub	Nonstocked	34.6		Immature	No	This stand is lowland shrub and cattail under dead trees. The stand was like flooded out by beaver activity in the area. Small pockets of forested upland are present.																																																																						
42	6122 - Black Spruce	Poletimber Well	14.2	79	81-110	N/A	The black spruce density increases the further south you go in the stand.																																																																						
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43	6229 - Mixed lowland shrub	Nonstocked	2.7		Immature	No	These are lowland shrub pockets likely created when soil from this area was used to cap the landfill to the west.																																																																						
44	42140 - Planted Mixed Pine	Sawtimber Well	12.3	92	111-140	N/A	There is an inclusion pocket with a lowland drainage and mixed lowland forest in the center of the stand. The pine to the north of the drainage is half red pine and half white pine. The pine to the south is mostly white pine. Based on index card records, the white pine in this stand were likely planted in 1927. The on the ground cored age was used.																																																																						
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45	110 - Low Intensity Urban	Nonstocked	1.9			No	M-32																																																																						
46	110 - Low Intensity Urban	Nonstocked	2.1			No	Transfer Station/Recycling Center																																																																						
47	3102 - Grass	Nonstocked	3.4			No	This stand has mixed vegetation and acts as a power distribution line right off way.																																																																						
48	110 - Low Intensity Urban	Nonstocked	1.7		Immature	No	Alpena Field Office																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	4311 - Pine, Aspen Mix	Sawtimber Well	11.6	80	81-110	N/A	more pine on the east edge. gets wet along SW part of the stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		15	Pole/Log	8		Northern White Cedar	Trace	Variable	Sapling
Black Spruce		2	Pole/Log	8		Red Pine	Trace	Variable	Sapling
Red Maple		22	Log/Pole	12	85	White Pine	Trace	Variable	Sapling
Red Pine		21	Log	15		Glossy Buckthorn	Medium	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole	7		Balsam Fir	Medium	Variable	Sapling
White Pine		5	Log	14		Tag Alder	Low	10 - 20 feet	Tall Shrub
Quaking Aspen		30	Log/Pole	11	80	Red Maple	Medium	>20 feet	Sapling
						Dogwood (spp.)	Medium	5 - 10 feet	Tall Shrub
						White Spruce	Trace	Variable	Sapling
50	6229 - Mixed lowland shrub	Nonstocked	16.1		Immature	No	This stand is lowland shrub and cattail under dead trees. The stand was like flooded out by beaver activity in the area.		
51	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	16.0	97	111-140	N/A	This is higher ground surrounded by lowland hardwoods. Pockets of low areas are present throughout the stand. Based on index card records, the white pine in this stand were likely planted in 1927. The on the ground cored age was used.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	12		Red Maple	Low	Variable	Sapling
Paper Birch		5	Log/Pole	11		White Pine	Low	Variable	Sapling
Bigtooth Aspen		5	Log	15		Black Spruce	Low	Variable	Sapling
Black Spruce		2	Pole	8		Beech	Trace	Variable	Sapling
Red Pine		5	Log	16		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		2	Log	12					
52	42290 - Natural Mixed Pine	Sawtimber Well	11.7	61	81-110	N/A	On the north side of the power line, it is planted red pine to the east, log size jack pine centrally, and large white pine to the west. The southwest portion of the stand, west of the drainage, is wet but harvestable with mainly jack pine and some black spruce (with scattered red and white pine). The southeast portion of the stand is dominated by natural red pine. In February of 2024 a 15-inch DBH red pine cored at 61 years in the SE pocket of the stand (surprisingly young and fast grown). Other than the northeast pocket of the stand that is row planted red pine, there is no record of planting in this stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		25	Log/XLog/Pole	16	86	Black Spruce	Low	< 5 feet	Sapling
Jack Pine		25	Log/Pole	11		White Pine	Low	Variable	Sapling
Red Maple		7	Pole/Sapling	5		Glossy Buckthorn	High	5 - 10 feet	Tall Shrub
Black Cherry		1	Pole	6		Balsam Fir	Low	Variable	Sapling
Balsam Fir		1	Pole	8		Red Maple	Medium	>20 feet	Sapling
Black Spruce		6	Pole	8					
Red Pine		35	Log	15	61				
53	310 - Herbaceous Openland	Nonstocked	24.5			No	old landfill. capped with soil and grass vegetation.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
54	6120 - Lowland Cedar	Poletimber Well	1.9	115	81-110	N/A																																																																																		
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55	42290 - Natural Mixed Pine	Sawtimber Well	5.0	82	111-140	N/A	There is higher ground to the east and lower ground to the west.																																																																																	
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56	110 - Low Intensity Urban	Nonstocked	1.8			No	Snowmobile Trail/Old Railroad Grade																																																																																	
57	6229 - Mixed lowland shrub	Nonstocked	23.8		Immature	No	This is a mixture of lowland shrub, cattail, and low density lowland trees.																																																																																	
58	6113 - Lowland Maple	Sawtimber Well	3.5	95	51-80	N/A	One small upland pocket of cedar and pine is central to the stand. This stand is too wet to harvest.																																																																																	
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59	6229 - Mixed lowland shrub	Nonstocked	3.1			No	The main body of this stand is a mix of lowland shrub, cattail, and low-density trees. The west arm is a drainage.																																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	68.8	79	51-80	N/A	This stand is a maze of lowlands with scattered upland pockets. Overall, this stand is too wet to harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole/Sapling	6	
Quaking Aspen	5	Log	14	
Northern White Cedar	8	Log/Pole	12	
Paper Birch	15	Log/Pole	11	
White Pine	5	Log/XLog/Pole	14	
Bigtooth Aspen	5	Log	14	
Tamarack	5	Pole/Log	8	
Black Spruce	5	Pole	8	
Red Maple	45	Log/Pole	12	79
Red Pine	2	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Tag Alder	High	Variable	Tall Shrub
Black Ash	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

61	4133 - Aspen, Mixed Pine	Poletimber Well	4.8	85	51-80	N/A	This stand is composed of upland ridges amongst lowland pockets. The rotten aspen is not worth coring for an age. Trace hybrid oak is in the understory and overstory.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Log/Pole	11	
Quaking Aspen	30	Log	12	85
Red Maple	15	Log/Pole/Sap	15	
Jack Pine	15	Pole/Log	8	79
Bigtooth Aspen	10	Log	14	
Black Spruce	10	Pole	8	
White Pine	10	Log/Pole/XLog	12	
Red Pine	5	Log	14	

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

62	6229 - Mixed lowland shrub	Nonstocked	13.2			No
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63	6229 - Mixed lowland shrub	Nonstocked	1.8			No
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
64	4319 - Mixed Upland Forest	Poletimber Medium	14.7	42	51-80	N/A	Top soil was removed from this stand to cap the landfill. This stand is made up of various inclusion pockets, including pine peninsulas to the northwest and a tamarack dominate strip east to west in the south.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		5	Pole/Sap/Log	5		Autumn Olive	Low	5 - 10 feet	Tall Shrub
Tamarack		15	Pole	7		White Pine	Low	Variable	Sapling
Red Pine		15	Pole/Sap/Log	8		Red Pine	Low	Variable	Sapling
Jack Pine		20	Pole	8		White Spruce	Low	Variable	Sapling
Quaking Aspen		15	Log/Pole	10	49	Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak		1	Pole/Log	8		Glossy Buckthorn	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		5	Pole/Sapling	6		Jack Pine	Low	Variable	Sapling
White Spruce		1	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Balsam Poplar		21	Pole/Log	8	42				
Black Spruce		1	Pole	6					
Northern White Cedar		1	Log/Pole	12					
65	622 - Lowland Shrub	Nonstocked	2.5		Immature	No	For all intensive management purposes, this is lowland shrub. Some areas may peak 25% canopy coverage, but are too wet to harvest and have a continuous understory of lowland shrub.		
66	6229 - Mixed lowland shrub	Nonstocked	29.2			No	The area is very wet with scattered cedar, paper birch, black spruce, and red maple amongst the lowland shrub.		
67	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	4.5	59	1-50	N/A	An edge call was made from the east and west sides of the stand in February of 2024. As the paper birch die off, this stand is headed towards non-forested lowland shrub. This stand is too wet to harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		55	Pole	6	59	Balsam Fir	Low	Variable	Sapling
Paper Birch		45	Pole/Sapling	6		Tag Alder	Full	10 - 20 feet	Tall Shrub
68	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	1.6	98		N/A	This is an upland pocket surrounded by lowlands. The jack pine are dying out of the canopy.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		37	Pole/Sap/Log	8		Black Spruce	Low	Variable	Sapling
Paper Birch		15	Pole/Log	9					
Red Maple		10	Pole	5					
Jack Pine		38	Log/Pole	11	98				
69	6120 - Lowland Cedar	Poletimber Well	16.2	94		N/A	The cedar are larger in diameter and more spread out to the north. Were the stand becomes more dense, north and central, the stand is hummocky with much leaning and windthrown cedar. The stand is very wet with standing water throughout. There appears to be a drainage with a deciduous canopy component running west-east through the southern third of the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		5	Pole	5		Tamarack	Low	< 5 feet	Sapling
Northern White Cedar		88	Pole	7	94	Northern White Cedar	Low	Variable	Sapling
Black Spruce		5	Pole	6		Balsam Fir	Low	< 5 feet	Sapling
Tamarack		2	Pole	7		Tag Alder	Medium	Variable	Tall Shrub
						Black Spruce	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
70	6113 - Lowland Maple	Poletimber Well	20.7	58	51-80	N/A	This stand is dominated by slow growing red maple timber. The stand appears to be mostly dry enough to harvest. The diameter growth on the red maple can be attributed to wet soil.																																																																
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71	6229 - Mixed lowland shrub	Nonstocked	14.4			No	A small upland pocket is included in this stand south and central.																																																																
72	4132 - Aspen, Jack Pine	Sapling Well	12.1	17	Immature	N/A	Lowland shrub is heavy in the lower ground southwest corner of the stand where tree densities are lower. Scattered red pine dominates the eastern most half of the southeast most arm. All trees with a merchantable stick with the exception of oak and select green marked trees were harvested from this stand in August of 2007 via Timbe Sale Name: D & M RR Grade Pine; Timber Sale Number: 54-011-06. In the southwest quarter of the stand only cedar were retained.																																																																
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73	6120 - Lowland Cedar	Sawtimber Well	21.1	132		N/A	This is an old cedar stand. There is scattered windthrow throughout. A lowland shrub drainage runs N-S through the west end. A springtime drainage/possible creek runs W-E through the north end of the stand. Deciduous tree presence is highest along the east and north edges of the stand. Otherwise, the stand is cedar dominate.																																																																
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74	42290 - Natural Mixed Pine	Sawtimber Well	7.0	113	81-110	N/A	This is a horseshoe shaped pine ridges with a lowland maple inclusion pocket in the center. This stand could be included in the ERA to the south.																																																																
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75	6120 - Lowland Cedar	Poletimber Well	15.8	120	141-170	N/A	The varying density of the cedar can be seen in the leaf off imagery. The understory is minimal in the northeast portion of the stand. Standing water is most predominate across the southern 2/3 of the stand. There is a 1.3-acre log size red maple/paper birch inclusion pocket in the northwest corner of the stand. There is a tamarack dominate area in the southeast end of the stand. The basal area is quite variable and is 200+ in the northeast third of the stand. birch and red maple along the south and aspen along the north																																																					
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76	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	2.7	75	51-80	N/A	The ground. is high enough for harvesting.																																																					
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77	42210 - Natural Red Pine	Sawtimber Well	1.2	80	111-140	N/A	This is a natural red pine stand mapped out of the adjacent stand.																																																					
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78	42110 - Planted Red Pine	Sawtimber Well	10.4	103	111-140	N/A	2026 YOE Inventory BA Measurements: (210, 130, 170, 110, 140, 150, 130, 80) Much of this stand is very tall red pine. Lowland shrub drainages at the east end of the stand separate pine pockets from the remainder of the stand. Index card records indicate that this stand was planted to red pine in 1921.																																																					
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79	110 - Low Intensity Urban	Nonstocked	2.2			No	railroad grade/snowmobile trail																																																					



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80	42290 - Natural Mixed Pine	Poletimber Medium	2.7	25	51-80	N/A	There is log size white pine to the west and a small pocket of log size jack pine to the southeast. The rest of the stand is pole size jack pine and red pine dominate.																																																																	
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81	4133 - Aspen, Mixed Pine	Sapling Well	4.6	17	1-50	N/A	There is a half-acre log size white pine dominate inclusion pocket with red maple, paper birch, and balsam fir along the west edge of the stand. Stand did not meet the objective of natural jack pine. The current condition of upland mix was accepted at the 2016 Compartment Review. All trees with a merchantable stick, with the exception of oak and red pine 9 inches in DBH or less, were harvested from this stand in August of 2007 via Timbe Sale Name: D & M RR Grade Pine; Timber Sale Number: 54-011-06.																																																																	
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82	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	14.4	94	81-110	N/A	This stand is made up of many high and low ground inclusion pockets.																																																																	
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83	310 - Herbaceous Openland	Nonstocked	7.7			No	This is a power line right of way.																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
84	330 - Low-Density Trees	Nonstocked	15.0	0		No	54104084 12.5 acres Areas of deduct show up best in MiFI with the MI best available images 9 plots Averaged 1,800 RP/acre 1 and 2 year old seedlings about 6" – 1 foot tall Aspen is the major competitor (8 feet tall) Please change treatment to skidder release (10/1/2020) and deduct the areas noted The skidder herbicide application was completed on 9/23/21. PUER 8/11/22 Comments: Spray application moderately successful. Red Maple and Aspen competition may continue to be an issue. Consider PCT after a few more years of pine establishment. Cause of pine mortality unknown. Late season spraying may be the cause of the failure. Continue to monitor as if stands were planted. Before Application: oak/Cherry 5%, Aspen 45%, RM 50%; Post Application: 80%, 30%, and 50% control respectively.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
85	4133 - Aspen, Mixed Pine	Poletimber Well	46.4	34	1-50	N/A	The frequency of pine and pine pockets amongst the aspen is higher in the southern half of the stand. Scattered red pine were retained during the last harvest and are more frequent in the southern half of the stand. Balsam fir is mostly present in the southern half of the stand. Stand did not meet objectives of natural jack pine. Accepted the current condition of Upland mix at compartment review. This stand was harvested in a sale closed in September of 1989; Sale Name: High-Low Block; Sale No.: 54-063-86-01																																																									
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86	6229 - Mixed lowland shrub	Nonstocked	1.4			No	
87	6229 - Mixed lowland shrub	Nonstocked	2.8		Immature	No	Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.

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88	4319 - Mixed Upland Forest	Sawtimber Well	21.1	87	111-140	N/A	Red pine and white pine are scattered throughout with a couple, less than 1-acre, red pine dominate pockets present. Some lowland shrub veins and pockets are present in the stand.																																																				
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89	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	3.7	34	Immature	N/A	This stand is essentially lowland shrub with scattered deciduous and coniferous trees. The eastern third of the stand could be broken off into a lowland shrub stand. This stand is too wet to harvest.																																									
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90	6120 - Lowland Cedar	Poletimber Well	11.6	125		N/A	This stand is too wet to harvest. A northern/NE aspect slope separates this low ground from the higher ground stand to the south along the southern edge.																																									
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91	622 - Lowland Shrub	Nonstocked	0.9			No	This shrub stand is dominated by glossy buckthorn. Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.																																									
92	429 - Mixed Upland Conifers	Sawtimber Well	1.0	108	111-140	N/A	This is long term retention from Timber Sale Name: Flyby Pine; Timber Sale Number: 54-050-16. It was originally part of the harvest to the north.																																									
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93	622 - Lowland Shrub	Nonstocked	2.6		Immature	No																																										
94	3303 - Mixed Low Density Trees	Nonstocked	1.5	0		No	This is the cleared, intensively used area for Camp Woodlands. The notch at the top of the stand shape corresponds to the rough location of the septic drain field. The shape includes a power line cut, the camp building, the yard, the turn circle and driveway.																																									
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95	4133 - Aspen, Mixed Pine	Sapling Well	4.9	17	1-50	N/A	<p>This stand did not meet the objective of natural jack pine. The current condition of upland mix was accepted at the 2016 Compartment Review. Some lowland shrub inclusion pockets are present in the north of the stand.</p> <p>All trees with a merchantable stick with the exception of select green marked trees were harvested from this stand in August of 2007 via Timbe Sale Name: D & M RR Grade Pine; Timber Sale Number: 54-011-06.</p>																																																
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96	4133 - Aspen, Mixed Pine	Sapling Well	3.6	17	1-50	N/A	<p>The tree density is somewhat sparse and pine dominate in the northwest third of the stand.</p> <p>Stand did not meet the objective of natural jack pine. The current condition of upland mix was accepted at the 2016 Compartment Review.</p> <p>All trees with a merchantable stick, with the exception of oak and select green marked trees, were harvested from this stand in August of 2007 via Timbe Sale Name: D & M RR Grade Pine; Timber Sale Number: 54-011-06.</p>																																																
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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	42210 - Natural Red Pine	Sapling Medium	12.8	6	Immature	N/A	<p>The red pine were averaging about 3 ft tall in February of 2024. This portion of the stand regenerated naturally to red pine so are being managed separately from the adjacent area that is to be row planted to red pine.</p> <p>Natural Regen survey completed June of 2023: Ran 6 transects in 11 acres; 2,713 red pine per acre on average with an average height of 2ft. An ocular estimate of 60% free to grow was made. The major competition was limited red maple in the south portion of the stand with small jack pine and white pine starting to grow.</p> <p>PUER 8/11/22 Comments: Spray application moderately successful. Red Maple and Aspen competition may continue to be an issue. Consider PCT after a few more years of pine establishment. Cause of pine mortality unknown. Late season spraying may be the cause of the failure. Continue to monitor as if stands were planted. Before Application: oak/Cherry 5%, Aspen 45%, RM 50%; Post Application: 80%, 30%, and 50% control respectively.</p> <p>These areas of successful natural red pine regeneration were released with herbicide on 9/23/21.</p> <p>A natural regeneration check was completed in May of 2021. There was a full stocking of naturally regenerated red pine.</p> <p>South 5 acres of naturally regenerated red pine survey data: 3 plots: Averaged 3,000 RP/acre and 1,600 WP/acre 1 and 2 year old seedlings about 6" – 1 foot tall Red Maple is the major competitor (4 - 6 feet tall)</p> <p>Survey data for 5 acres to the north with naturally regenerated red pine: 5 plots: Averaged 2,000 RP/acre 1 and 2 year old seedlings about 6" – 1 foot tall Red Maple is the major competitor (4 - 6 feet tall)</p> <p>This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.</p>
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98	4123 - Red Oak	Sawtimber Well	15.6	120	81-110	N/A	<p>Aging one 15-inch DBH oak during the 2026 YOE Inventory (February 2024) gave this stand its old age. There is a pocket of red pine in the northern half of the stand.</p>
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	78	Log	15	120
White Pine	10	Log/Pole	11	
Bigtooth Aspen	2	Pole	7	
Red Pine	10	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
99	4133 - Aspen, Mixed Pine	Poletimber Well	6.9	53	Unspecified	N/A	This stand was separated out from the stands to the west due to the dominance of aspen in the overstory. The suppressed red pine in this stand are a continuation of the planted red pine in the adjacent stands to the west. Manage this stand based on the aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		15	XLog/Log	18		White Spruce		
White Pine		10	Log/Pole	10		Balsam Fir		
Bigtooth Aspen		60	Pole	8	53	Red Maple		
Red Pine		15	Pole/Log	8		Red Oak		
100	6120 - Lowland Cedar	Sawtimber Well	8.0	125	171-200	N/A	There is an inclusion pocket of lowland deciduous in the south-central portion of the stand. This stand is too wet to harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole/Log	8				
Quaking Aspen		5	Log	15				
Paper Birch		5	Pole/Log	8				
Northern White Cedar		80	Log/Pole	11	125			
101	6123 - Lowland Fir	Poletimber Poor	7.4	41		N/A	This stand is too wet to harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		10	Log	12		Tag Alder		
Balsam Fir		70	Pole/Sapling	5	41	Balsam Fir		
Quaking Aspen		10	Pole	8		Black Ash		
Paper Birch		5	Pole/Sapling	7		Michigan Holly		
Balsam Poplar		5	Pole	8				
102	42220 - Natural Jack Pine	Sawtimber Well	0.8	79	81-110	N/A	This is a nice, mature jack pine ridge.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		2	Log/Pole	10		White Pine		
Black Spruce		2	Pole	8		Jack Pine		
Jack Pine		94	Log/Pole	11	79	Red Pine		
Red Pine		2	Log	16				
103	6121 - Tamarack	Poletimber Well	6.1	59	51-80	N/A	There is a pine ridge along the east edge of the stand. The rest of the stand is dominated by tamarack with scattered black spruce. Other than the ridge to the east, this stand is too wet to harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		2	Log/Pole	11		Black Spruce		
Black Spruce		25	Pole	7		Glossy Buckthorn		
Red Maple		2	Pole	7		Tag Alder		
Tamarack		63	Pole	7	59	Michigan Holly		
Jack Pine		4	Log/Pole	11				
White Pine		2	XLog/Log	20				
Red Pine		2	Log	16				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
104	6121 - Tamarack	Poletimber Medium	4.8	75	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Pole/Log	8		Michigan Holly	
White Pine		2	XLog/Log	18		Glossy Buckthorn	
Tamarack		58	Pole/Log	8	75	Tag Alder	
						Density	Avg. Height
							Size
105	42100 - Planted White Pine	Sawtimber Well	3.2	92	111-140	N/A	Based on index card records, the white pine in this stand were likely planted in 1927. The on the ground cored age was used.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		28	Log	16		Red Maple	
Red Maple		5	Log/Pole/XLog	12		Beech	
Northern White Cedar		5	Log/Pole	10		Black Spruce	
Paper Birch		2	Pole	8		Leatherleaf	
White Pine		60	Log/XLog	16	92		
						Density	Avg. Height
							Size
106	6113 - Lowland Maple	Poletimber Medium	0.4	75	1-50	N/A	This stand is too wet to harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		70	Log/Pole	10	75	Michigan Holly	
Paper Birch		10	Pole/Sapling	5		Glossy Buckthorn	
Balsam Fir		20	Pole/Sapling	6		Tag Alder	
						Density	Avg. Height
							Size
107	6113 - Lowland Maple	Poletimber Medium	1.1	70	1-50	N/A	This stand is likely dry enough for harvesting but low in volume and quantity.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		5	Log	11		Glossy Buckthorn	
Red Maple		85	Pole/Log	9	70		
Red Pine		5	Log/XLog	16			
Paper Birch		5	Pole	5			
						Density	Avg. Height
							Size
108	6113 - Lowland Maple	Poletimber Well	1.0	60	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		5	Log/Pole	13		Glossy Buckthorn	
White Pine		5	Log/Pole	12		Tag Alder	
Quaking Aspen		5	Pole	7		Michigan Holly	
Red Maple		60	Pole	7	60		
Paper Birch		20	Pole	7			
Jack Pine		5	Pole/Log	8			
						Density	Avg. Height
							Size
109	622 - Lowland Shrub	Nonstocked	0.9		Immature	No	Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.
110	622 - Lowland Shrub	Nonstocked	2.2		Immature	No	Some coniferous and deciduous trees are scattered amongst the lowland shrub. For all intensive management purposes this is lowland shrub.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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111 42210 - Natural Red Pine Poletimber Well 3.1 34 51-80 N/A This stand is the same age as and was regenerated with the stand to the east but came back red pine dominate.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Log/Sap	8	
Red Oak	2	Pole	8	
Jack Pine	20	Pole/Sapling	5	
Bigtooth Aspen	3	Pole	6	
Red Pine	70	Pole	7	34

112 4311 - Pine, Aspen Mix Poletimber Well 7.8 46 81-110 N/A Some lowland shrub pockets are present north and central. This stand is pole size jack pine dominate to the north, log size mixed upland forest centrally, and pole size aspen dominate to the south.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	8	
Jack Pine	40	Pole	7	46
Red Pine	15	Log	15	
Red Oak	5	Log/Pole/XLog	16	
Bigtooth Aspen	35	Pole	7	

113 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 3.4 55 1-50 N/A There looks to be 3 ages of red maple in this stand. Some of this stand was cut with the stand to the west. A short steep slope separates this stand from the stand to the south along the southern edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	XLog/Log	19		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Pine	1	Log/Pole	10		Glossy Buckthorn	High	5 - 10 feet	Tall Shrub
Red Maple	58	Pole/Log	8	55				
Yellow Birch	1	Pole/Log	8					
Paper Birch	35	Pole/Log	8					

114 6139 - Mixed Lowland Forest Poletimber Well 7.7 74 81-110 N/A There is a younger pole size timber in the north end with log sized timber in the southern 1/3 of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Log	8		Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	31	Pole/Log	9	74	Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Pole/Sapling	6					
Tamarack	29	Pole/Log	8					
Northern White Cedar	10	Log	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
115	42290 - Natural Mixed Pine	Sawtimber Well	5.6	89	111-140	N/A	Index card planting records indicate that 12 acres was planted to jack pine/red pine in this quarter-quarter in 1930. It is likely the red pine in this stand is a mix of planted and naturally regenerated trees. The on the ground coring age was used. This stand is mostly dominated by red pine. The red pine to the west is larger diameter and more spread out and the red pine to the east is more densely spaced. A deciduous inclusion pocket is included centrally for mapping and management purposes. This stand could possibly be added to the ERA to the south.																																																								
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116	42210 - Natural Red Pine	Sawtimber Well	4.8	95	111-140	N/A	This red pine was essentially left over from the red pine harvest to the east. The northwest half of the stand is Xlog sized red pine on average and is likely somewhat older.																																																								
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117	429 - Mixed Upland Conifers	Sawtimber Well	3.0	87	81-110	N/A	This stand is slightly more upland than the stand to the southwest. This stand went unharvested when the stand to the southwest was last cut.																																																								
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118	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	3.7	87	81-110	N/A	a log size black spruce pocket connects 118 and 88																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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119 6119 - Mixed Lowland Deciduous Forest Poletimber Poor 5.2 72 1-50 N/A This stand is too wet to harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Sapling	6	72	Black Spruce	Low	Variable	Sapling
Paper Birch	35	Pole	8		Michigan Holly	Full	5 - 10 feet	Tall Shrub
Black Spruce	10	Log/Pole	10					

120 6113 - Lowland Maple Sawtimber Well 1.7 87 111-140 N/A Red pine and white pine are scattered throughout with a couple, less than 1-acre, red pine dominate pockets present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Log	8		White Pine	Medium	Variable	Sapling
Red Maple	65	Log/Pole	12	87	Balsam Fir	Medium	Variable	Sapling
White Pine	11	Log/Pole/XLog	12		Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	2	Log	15					
Northern White Cedar	2	Pole/Log	9					
Red Pine	5	Log/XLog	16					

121 622 - Lowland Shrub Nonstocked 1.6 Immature No

122 622 - Lowland Shrub Nonstocked 1.8 Immature No

123 622 - Lowland Shrub Nonstocked 1.2 Immature No

124 4199 - Other Mixed Upland Deciduous Sawtimber Well 3.7 97 81-110 N/A A few scattered pine and oak legacy trees are present. A red maple was aged but rings were difficult to count.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	57	Log/Pole	12	97	Balsam Fir	Medium	Variable	Sapling
Paper Birch	25	Pole/Log	9					
Red Oak	1	XLog	27					
Balsam Fir	15	Pole/Sapling	6					
White Pine	1	XLog	26					
Red Pine	1	XLog	22					

125 622 - Lowland Shrub Nonstocked 1.6 Immature No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
126	6113 - Lowland Maple	Sawtimber Well	11.7	97	81-110	N/A	<p>A drainage was flowing W-E through the north end in March of 2026. This stand had much standing water and much of this stand may see die-off due to long periods of standing water. Eventually much of this stand may convert to lowland shrub. This stand is too wet to harvest.</p>																																																						
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127	622 - Lowland Shrub	Nonstocked	0.7	0		No	<p>2026 YOE Inventory BA Measurements: (210, 130, 170, 110, 140, 150, 130, 80) Much of this stand is very tall red pine. Lowland shrub drainages at the east end of the stand separate pine pockets from the remainder of the stand.</p>																																																						
128	622 - Lowland Shrub	Nonstocked	0.4	0		No																																																							
129	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	3.6	97	81-110	N/A	<p>A ridge separates this stand from the higher ground to the south. Higher ground was included in this stand at the east end due to similar trees species composition.</p>																																																						
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