



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54105

Entry Year 2021

Acreage: 1,852

County Alpena

Management Area: Alpena Lake Plain

**Revision Date:** 2019-06-06

**Stand Examiner:** Dale Parris

**Legal Description:**

T31N R07E Section 34, 35, 36

**Identified Planning Goals:**

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The timber analysis completed on the ALPMA, specific to Compartment 105, indicated that the lowland aspen, red pine, lowland deciduous, and upland aspen covertypes be of focus for harvest for the purpose of balancing the age classes of these covertypes across the Management Area (MA). Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

**Soil and topography:**

The soil information detailed below was taken from the Soil Survey of Alpena County, Michigan put out by the USDA/NRCS in conjunction with other entities.

Large tracts of wet deciduous/mixed lowland forest dominate the central region of Compartment 105 with the occasional low rises of red and white pine on sandy soils with a permanently high water table. In the west end, the Lower South Branch of the Thunder Bay River snakes through flood plain forest dominated by red and silver maple. In the east, red pine grows on old beach ridges while swamp hardwoods fill in the area between these ridges. The uplands are divided between PArVHa and PArVCo.

At the west end of Compartment 105 and within the flood plain of the Lower South Branch of the Thunder Bay River is the Thunder Bay very fine sandy loam soil (poorly drained).

The upland soils to the west but just east of the river lowlands are bands of upland soil that parallel the river. From the river flood plain moving east is Rubicon sand (excessively drained), Croswell sand (moderately well drained), and Au Gres Sand (somewhat poorly drained).

The central region of Compartment 105 is dominated by Deford Muck (very poorly drained), Proper-Deford-Rousseau Complex (very poorly to well drained), and Finch Sand (somewhat poorly drained).

At the east end the Deford and Tawas (very poorly drained) Mucks dominate the lowland areas while Proper and Rousseau (moderately to well drained) soils make up the ridges.

For more details on the soils found in Compartment 105 reference the Soil Survey of Alpena County.

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

State land surrounds Compartment 105 to the north, east, and south. The west edge of the compartment borders residential and recreational hunting properties.

**Unique Natural Features:**

As part of the Natural Heritage Database (NHD) the Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website turned up 7 cases of rare species that have been documented as being near or within Compartment 105. Two species observed in the Lower South Branch of the Thunder Bay River are the fluted shell (*Lasmigona costata*) and the pugnose shiner (*Notropis anogenus*). Other rare species found in or near Compartment 105 are the red shoulder hawk (*Buteo lineatus*), yellow banded bumble bee (*Bombus terricola*), satiny willow (*Salix pellita*), northern long eared bat (*Myotis septentrionalis*) and the little brown bat (*Myotis lucifugus*).

The sandy, beach dune ridges at the east end of Compartment 105 dominated by mature uneven aged red pine make for the most unique features present. These ridges fit the definition of the Dry Northern Hardwoods natural community. These red pine dominate stands were likely ushered in around the time of the late 1800's to early 1900's when fires swept

through the region during the post logging era. Some red pine date back to the early 1800's.

Flood Plain Forest surrounds the Lower South Branch of the Thunder Bay River. These forests are important for the slowing of food season waters that have the potential for being very destructive in their absence.

### **Archeological, Historical, and Cultural Features:**

The marked Civil War grave site of Mr. William M. Barney and unmarked grave sites of several children is present within the west end of Compartment 105. In 1971 a split rail fence was constructed around the site to protect it. Aside from the aforementioned Civil War and accompanying gravesites within the west end of Compartment 105, the MNFI database had no record of additional archeological, historical, and/or cultural features within the Compartment 105.

### **Special Management Designations or Considerations:**

The Fisheries Division of the Michigan DNR needs to be consulted regarding all forest management that takes place near the Lower South Branch of the Thunder Bay River. Rutting and the disturbance of underground water flow needs to be considered when managing forests in and around sensitive lowland soils. Oak wilt needs to be taken into consideration in harvests that take place in and adjacent to stands that contain oak. Heterobasidion Root Disease (HRD) needs to be considered in managing red pine dominated stands.

An Intermittent Wetland Ecological Reference Area (ERA) and a Northern Dry-Mesic Forest ERA are within Compartment 105 at its extreme east end. Guidelines for protecting these ERA's should be followed for all management activities within the vicinity of these ERA's.

### **Watershed and Fisheries Considerations:**

### **Wildlife Habitat Considerations:**

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of swamp hardwoods wetland complexes as well as small pockets of aspen provide food and cover for multiple species at a variety of age classes. We are working to maintain winter cover areas as well as keep a good age rotation of aspen in this compartment with consideration of adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

### **Mineral Resource and Development Concerns and/or Restrictions**

The nearest active sand/gravel pit is located three miles to the south. There appears to be some sand & gravel potential within the compartment, but wetlands in the area would limit surface development. Limestone production in the Alpena area is more than five miles northeast of this area. Bedrock limestone appears to be too deep here to be economical to mine. This area has had no drilling for oil and gas. The Antrim Shale is pinching out in this area and production is unlikely. There are no active mineral leases in the area. Oil & gas potential is considered low at this time. There is no known metallic mineral potential in this part of the state.

### **Vehicle Access:**

Accept for approximately 50 acres west of the Lower South Branch of the Thunder Bay River, all of Compartment 105 is accessible from Indian Reserve Road and Norway Ridge Trail. Hiking a half mile from these access roads is required to reach some areas of the compartment.

### **Survey Needs:**

According to survey corner records all corners necessary for harvesting prescribed stands adjacent to private land are present. Therefore, no surveys are needed.

### **Recreational Facilities and Opportunities:**

In Compartment 105 there are recreational opportunities for the hunting of white-tailed deer, squirrel, woodcock, grouse, rabbit, turkey, and bear.

The LP461 and LP462 snowmobile trails run through Compartment 105. The Norway Ridge Pathway, a multi-use pathway, runs through the east end of the compartment. Norway Ridge Pathway is used for hiking, biking, and cross-country skiing.

### **Fire Protection:**

In the case of a wildland fire, response to Compartment 88 will be from the Alpena DNR office as well as the Wilson Township Fire Department.

### **Additional Compartment Information:**

**The following reports from the Inventory are attached:**

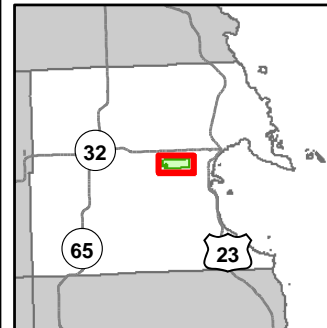
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

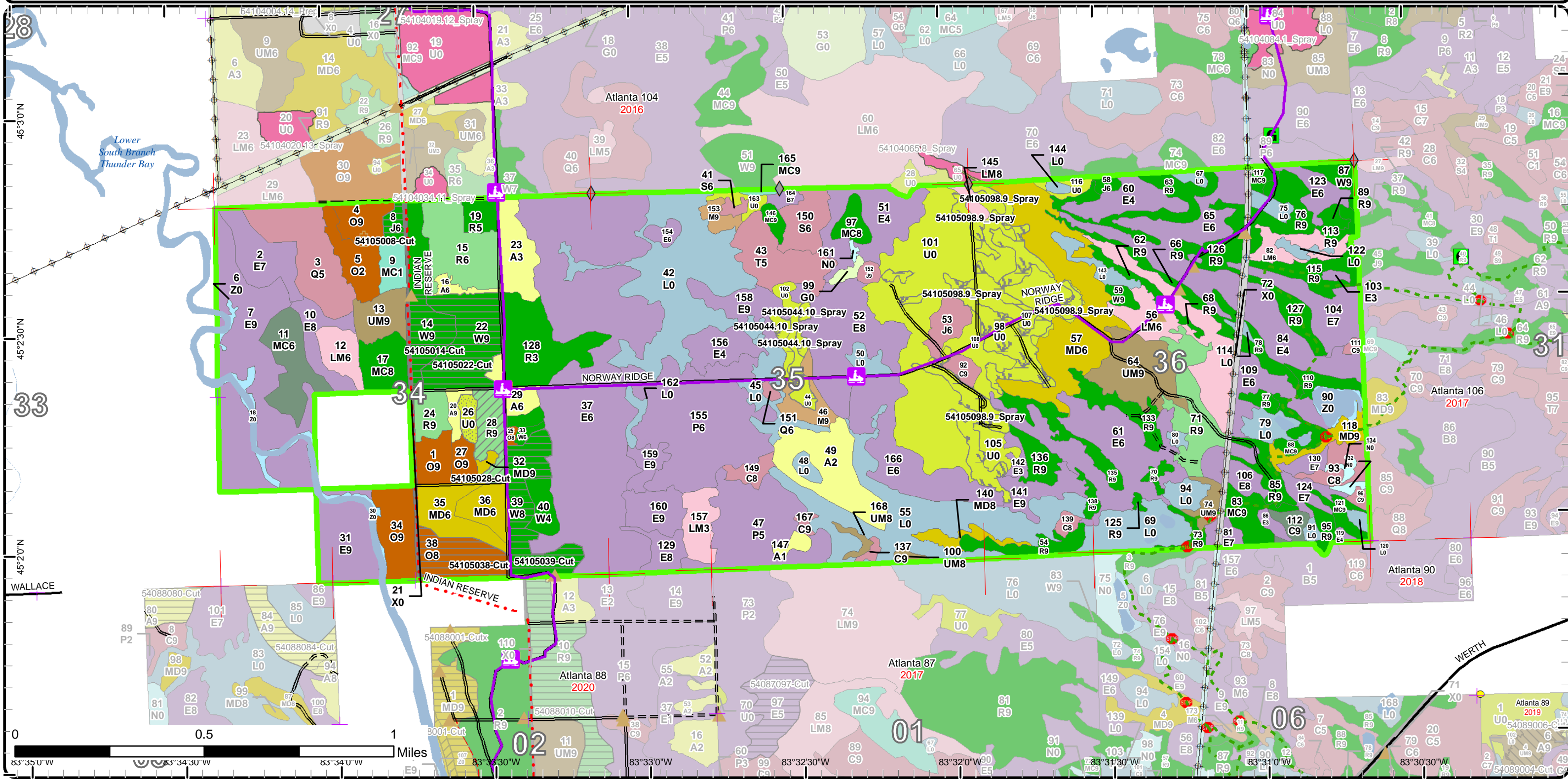
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 105  
 T31N, R07E, Sec. 34-36  
 County: Alpena  
 Unit: Atlanta  
 Mgmt Area: Alpena Lake Plain  
 YOE: 2021  
 Acres: 1,852 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 10/10/2019  
 Map Phase: Post-Review



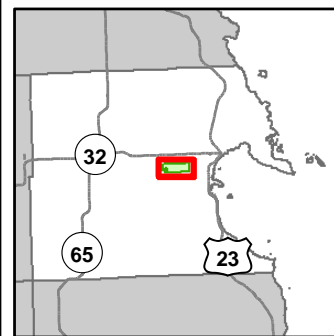
- |   |  |   |   |
|---|--|---|---|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>● Survey Grade Corners</li> <li>◆ Field Grade Corners</li> <li>--- Counties</li> <li>== DNR - Secondary Forest Road</li> <li>== DNR - Forest Access Route</li> <li>— Federal / State / County - Paved Road</li> <li>-.-.- County - Gravel Road</li> <li>-.-.- County - Dirt Road (Seasonal)</li> <li>— Snowmobile Trails</li> <li>— Designated Hiking Trails</li> <li>— Designated Bicycle Trails</li> <li>— Designated Ski Trails</li> </ul> | <ul style="list-style-type: none"> <li>▲ Berms</li> <li>Ⓜ Gate</li> <li>Ⓜ Cemetery</li> <li>● Sign</li> <li>— Intermittent Stream</li> <li>— Lake/Pond</li> <li>— Perennial River</li> <li>— Lakes and Rivers All</li> <li>— Powerline</li> <li>— Compartment Boundary</li> <li>— Pesticide</li> <li>— Clearcut (w/Reserves)</li> <li>— Thinning (Crown, Low, Systematic)</li> </ul> | <ul style="list-style-type: none"> <li>▨ Mowing</li> <li>411 - Northern Hardwood</li> <li>412 - Oak Types</li> <li>413 - Aspen</li> <li>419 - Mixed Upland Deciduous</li> <li>421 - Planted Pines</li> <li>422 - Natural Pines</li> <li>423 - Other Upland Conifers</li> <li>429 - Mixed Upland Conifers</li> <li>430 - Upland Mixed Forest</li> <li>611 - Lowland Deciduous Forest</li> <li>612 - Lowland Coniferous Forest</li> <li>613 - Lowland Mixed Forest</li> <li>110 - Low Intensity Urban</li> <li>122 - Roads/Parking Lot</li> </ul> | <ul style="list-style-type: none"> <li>310 - Herbaceous Openland</li> <li>330 - Low Density Trees</li> <li>500 - Water</li> <li>622 - Lowland Shrub</li> <li>623 - Emergent Wetland</li> <li>Lakes</li> </ul> |
|---|--|---|---|



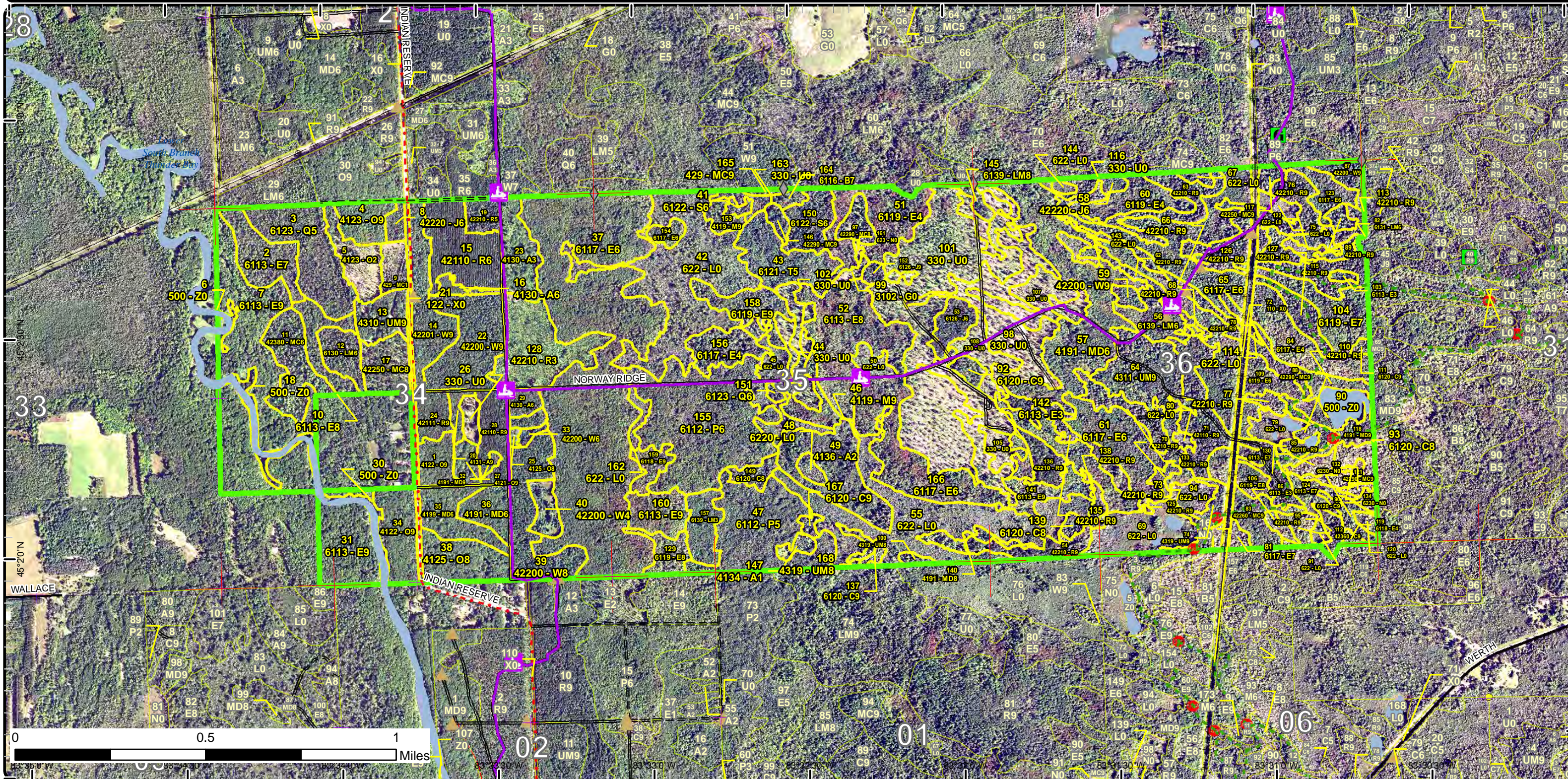


# Stand Boundary Map

Compartment: 105  
 T31N, R07E, Sec. 34-36  
 County: Alpena  
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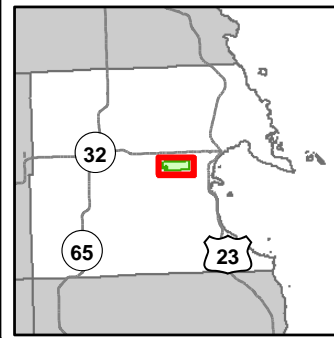
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowmobile Trails
- Berms
- Gate
- Cemetery
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



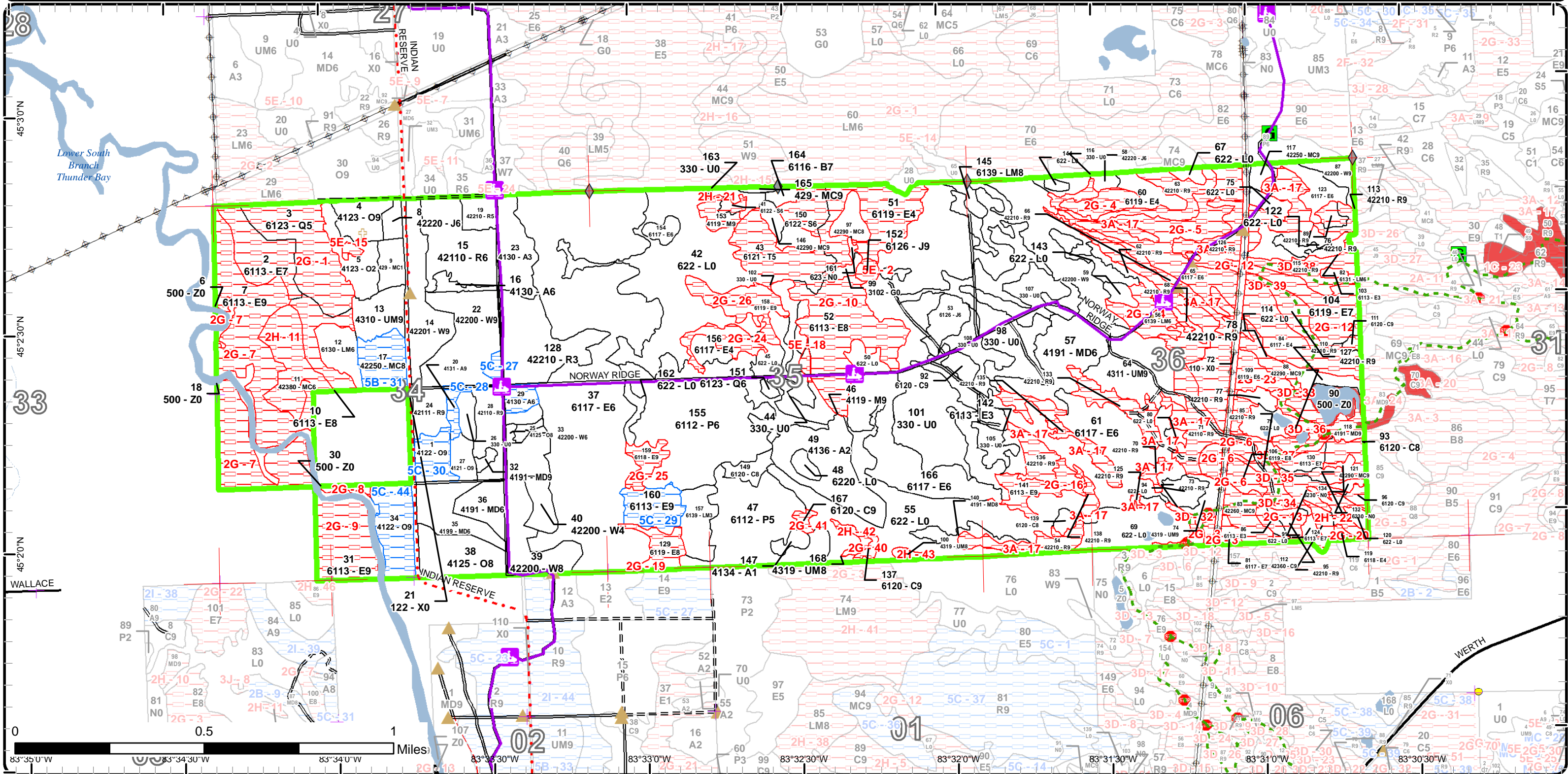


# Special Conservation Areas & Site Conditions Map

Compartment: 105  
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- Miris Corners
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- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
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- County - Dirt Road (Seasonal)
- ⚡ Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- ▲ Berms
- ⬮ Gate
- ⊕ Cemetery
- ⊕ Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ⊕ Powerline
- ⬮ Compartment Boundary
- ⬮ Available w/ Constraints
- ⬮ Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- ⬮ Stand Boundaries
- ⬮ Ecological Reference Areas



# Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 105 Year of Entry 2021

Dale Parris : Examiner



## 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	14	28	0	11	0	0	0	0	0	0	0	0	0	0	0	0	52
Cedar	0	0	0	0	0	0	0	0	0	0	0	4	8	13	0	0	1	0	26
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	0	0	0	9	3	2	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
Lowland Aspen/Balsam Poplar	0	0	0	37	0	60	0	0	0	0	0	0	0	0	0	0	0	0	96
Lowland Conifers	0	0	0	0	0	0	26	1	0	0	0	0	0	0	0	0	0	0	27
Lowland Deciduous	0	2	0	0	158	107	48	38	90	38	0	93	0	0	0	0	0	0	573
Lowland Mixed Forest	0	0	0	0	8	30	8	0	0	3	0	0	0	0	0	0	0	10	59
Lowland Shrub	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	22	0	49	0	0	4	7	0	0	0	0	0	0	0	0	82
Natural Mixed Pines	0	0	0	0	0	0	0	5	0	22	2	11	0	0	0	0	0	0	40
Northern Hardwood	0	0	0	0	0	0	0	0	7	4	0	0	0	0	0	0	0	0	11
Oak	0	11	0	0	0	0	0	0	0	0	39	6	0	0	0	0	0	9	64
Paper Birch	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Red Pine	0	0	25	0	28	0	0	19	34	75	0	10	10	19	0	0	3	0	223
Tamarack	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	19
Upland Conifers	0	6	0	0	0	17	0	0	0	1	0	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	22	0	4	0	3	0	0	0	0	0	0	0	10	39
Urban	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
White Pine	0	0	0	6	1	2	0	0	5	19	52	0	0	0	0	0	0	0	85
<b>Total</b>	<b>404</b>	<b>19</b>	<b>39</b>	<b>93</b>	<b>195</b>	<b>307</b>	<b>104</b>	<b>69</b>	<b>152</b>	<b>174</b>	<b>93</b>	<b>124</b>	<b>18</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>29</b>	<b>1851</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 105

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 1,852

Commercial Harvest - 91  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	3	0	0	0	0	0	0	0	0	3
Oak	16	0	0	0	0	0	0	0	0	16
Red Pine	0	0	0	0	0	12	0	0	0	12
White Pine	61	0	0	0	0	0	0	0	0	61
<b>Total</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>91</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	91	0	0	0	0	61	0	0	3	156
Next Step	0	145	80	0	61	72	213	0	0	571
<b>Total</b>	<b>91</b>	<b>145</b>	<b>80</b>	<b>0</b>	<b>61</b>	<b>134</b>	<b>213</b>	<b>0</b>	<b>3</b>	<b>727</b>





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	54105008-Cut	3.0	42220 - Natural Jack Pine	Poetimber Well	51	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Clear-cut. Retention is not necessary due to the small size of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Other Comment:

Protecting advanced oak regeneration is not necessary due to the amount of oak in the area and how well oak regenerates from stump sprouts in the area.

Proposed Start Date: 10/1 /2020

14	54105014-Cut	11.2	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	85	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Plan A:

Specs: Clear-cut with retention. Retain 3-10% of the stand in pocket(s). Place retention for creation of a visual block from Indian Reserve Road.

Plant to red pine.

Plan B:

If the planting of red pine fails due to a high water table, a medium to well stocked mixed upland forest will be acceptable regeneration.

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand dominated by red pine.

Other Comment:Other Comment:

Proposed Start Date: 10/1 /2020

22	54105022-Cut	25.7	42200 - Natural White Pine	Sawtimber Well	93	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Plan A:

Specs: Clear-cut with retention. Retain 3-10% of the stand in pocket(s).

Plant to red pine.

Protect any legacy pine/trees.

Include specifications to protect the snowmobile trail and its users.

Plan B:

If the planting of red pine fails due to a high water table, a medium to well stocked mixed upland forest will be acceptable regeneration.

Protect any legacy pine/trees.

Include specifications to protect the snowmobile trail and its users.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand dominated by red pine.

Other Comment:Other Comment:

Proposed Start Date: 10/1 /2020





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
28	54105028-Cut	11.7	42110 - Planted Red Pine	Sawtimber Well	68	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Crown thin down to 120 BA.

Specs:

Do not remove more than 1/3 of the stand in any area.

Include specifications to protect the snowmobile trail and its users.

Next Step

Treatments:

Acceptable This is not a regeneration harvest.

Regen:

Other \*\*\*There is a hawk nest in the east-central region of the stand. Delay the harvest until hawk nests in the stand are proven inactive at which time we will but a one chain diameter protection area around the nest(s) and crown thin the rest of the stand.

Proposed Start Date: 10/1 /2020

38	54105038-Cut	15.7	4125 - Black, N. Pin Oak	Sawtimber Medium	97	1-50	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with retention. Retention is to be in two or more pockets. Place retention for creation of a visual break from the private residences to the south and Indian Reserve Road to the west.

Specs:

Protect pine regeneration to promote future stand diversity, except sever all Scotch pine regeneration.

Include specifications to protect the snowmobile trail and its users.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any medium to well stocked mix of oak, pine, and red maple,

Regen:

Other According to the LARA Remonumentation Data the survey corners needed are present.

Comment:

Take precautions to minimize the spread of oak wilt.

Oak regenerates really well from stump sprouts in this area. The stands to the north and other harvest in the area are proof of this.

Proposed Start Date: 4 /30/2019

39	54105039-Cut	23.7	42200 - Natural White Pine	Sawtimber Medium	90	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with retention. Retain 3-10% of the stand in pocket(s).

Specs:

Retain less than 10 BA of white pine as a seed source.

Protect the advanced pine regeneration to promote future stand diversity.

Protect any legacy pine/trees.

Include specifications to protect the snowmobile trail and its users.

Use the separate 2-acre pocket to the north, that has been managed with the main body of this stand historically, as retention. This retention has already been excluded from the treatment boundary.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any mix of a medium to well stocked stand of white pine, red maple, and oak.

Regen:

Other According to the LARA Remonumentation Data the survey corners needed are present.

Comment:

Proposed Start Date: 10/1 /2020





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
44	54105044.10_ Spray	7.6	330 - Low-Density Trees	Nonstocked	0		Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Herbicide woody competition.Specs:Next Step Planting, Replant; Pesticide, (Inactive)Aerial; Burn, Slash; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant;Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Acceptable moderate to fully stocked red pineRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 4 /1 /2019

98	54105098.9_S pray	53.6	330 - Low-Density Trees	Nonstocked	0	Immatu re	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Herbicide woody competition.Specs:Next Step SitePrep, Roller Chopping; Pesticide, (Inactive)Aerial; Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, ArtificialTreatments: Regen(1yr); Monitoring, Artificial Regen(3yr)Acceptable Moderate to fully stocked red pine.Regen:Other Percent to Treat = 100%Comment:Proposed Start Date: 4 /1 /2019

26	NF_54105026- NonFor	3.4	330 - Low-Density Trees	Nonstocked			NonForestMgt	Mowing	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage or cover through burning, mowing, planting, or otherSpecs: agriculture practicesNext StepTreatments:AcceptableRegen:Other Old next step comments: monitor and re-enter on 5-10 year rotation or as needed to maintain as herbaceous openingComment:Proposed Start Date: 10/18/2018

**Total Treatment  
Acreage Proposed: 155.6**



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 105  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		5B	5C	2G	2H	3A	3D	5E			
52	44	9	0	Aspen		9								
26	9	0	17	Cedar			17							
2	2	0	0	Herbaceous Openland										
14	12	0	2	Jack Pine									2	
178	178	0	0	Low-Density Trees									0	
96	96	0	0	Lowland Aspen/Balsam Poplar										
27	1	0	26	Lowland Conifers			26							
572	242	11	320	Lowland Deciduous		11	320							
59	29	0	30	Lowland Mixed Forest			30							
182	182	0	0	Lowland Shrub										
12	3	0	9	Lowland Spruce/Fir			7	2						
3	3	0	0	Marsh										
82	76	0	7	Mixed Upland Deciduous			0					7		
40	10	11	19	Natural Mixed Pines	11		0	4				15		
11	6	0	5	Northern Hardwood				4					1	
63	39	23	1	Oak		23	0						1	
2	2	0	0	Paper Birch										
224	84	0	140	Red Pine		0		3	105	32				
19	0	0	19	Tamarack			19							
24	7	0	17	Upland Conifers				17						
39	36	0	3	Upland Mixed Forest				3						
19	19	0	0	Urban			0							
19	19	0	0	Water			0							
85	85	0	0	White Pine										
1,852	1,184	53	615	Total Forested Acres	11	42	419	33	105	53	4			
	64%	3%	33%	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)	52	Unspecified	Unspecified	Unspecified	Unspecified

**Comments:**



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 105  
Year of Entry: 2021

2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
There are a few pockets that can be harvested but they are not large enough to make them worth mapping out.							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 105  
Year of Entry: 2021

7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	65	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area is in the flood plain of the Lower South Branch of the Thunder Bay River. The presence of the trees in this area slows the flow of the river during high water periods and protects forests and residences from fast flowing water.							
8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area is in the flood plain of the Lower South Branch of the Thunder Bay River. The presence of the trees in this area slows the flow of the river during high water periods and protects forests and residences from fast flowing water.							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	84	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 105  
Year of Entry: 2021

12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	105	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
These are unique naturally regenerated red pine stands. While records indicate that red pine and in some cases white pine and jack pine were planted in this area, aging of the red pine indicates that most of the red pine is not planted stock but natural regeneration.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
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Compartment: 105  
Year of Entry: 2021

18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 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 west.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These stands are surrounded by lowlands and are inaccessible to harvest.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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24	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is minimal ground in the western half of the stand that is high enough to harvest but it is blocked in by surrounding wetlands making it inaccessible. Most of the east half of the stand is too wet to harvest.							
27	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 105  
Year of Entry: 2021

29	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wait to harvest this stand with the adjacent stands when they are ready.							
30	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wait to harvest this stand until a majority of the red pine reaches a larger diameter (average 13-14 inches in DBH). Consider restarting this stand when the stand to the north has a crown thinning in the 2031 YOE.							
31	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The Norway Ridge Pathway runs through this stand.							
33	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The Norway Ridge Pathway runs through this stand.							
34	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand has the Norway Ridge Pathway running through it.							



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 105  
Year of Entry: 2021

35	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand has the Norway Ridge Pathway running through it.							
36	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand has the Norway Ridge Pathway running through it. The stand to the west might be a candidate for addition to the Intermittent Wetland ERA to the northeast.							
37	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand has the Norway Ridge Pathway running through it. An Intermittent Wetland ERA is adjacent to this stand to the Northeast.							
38	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand has the Norway Ridge Pathway running through it.							
39	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand has the Norway Ridge Pathway running through it.							
40	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 105  
Year of Entry: 2021

41	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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		
1	4122 - Oak, Pine	Sawtimber Well	7.7	91	111-140	N/A	2021 YOE Inventory BA Measurements (100, 120, 140, 160)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black/Red (Hybrid) Oak		65	Log	12	91	White Pine	Medium	Variable	Sapling
Red Pine		35	Log/Pole	12	62				
2	6113 - Lowland Maple	Sawtimber Poor	15.4	80	51-80	N/A	A majority of the canopy that was composed of small pole sized black ash is dead. The remaining red maple are sporadic in their distribution.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		95	Log	15	80	Tag Alder	Medium	5 - 10 feet	Tall Shrub
						Black Ash	Low	Variable	Sapling
						Balsam Fir	Low	Variable	Sapling
3	6123 - Lowland Fir	Poletimber Medium	26.1	52	1-50	N/A	This stand appears to have been harvested around 1970. For future purposes this stand is too wet to harvest. There is not likely to be any significant harvestable volume in the eastern half of this stand in the foreseeable future. In the east the balsam fir are currently putting on less than a sixteenth of an inch in DBH each year. The half of the stand to the north and west is slightly high ground with slightly better wood production, but it is still low ground that is too wet to harvest.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		6	Pole	7		Balsam Fir	Low	Variable	Sapling
Balsam Fir		64	Pole/Sapling	6	52	Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		14	Log	12					
4	4123 - Red Oak	Sawtimber Well	8.8	54	51-80	N/A	The age was taken from an oak stump sprout. This stand saw a partial harvest last entry with 10-30 BA of larger log sized oak of various diameters retained. A hiking trail runs E-W through the center of the stand. This hiking trail is not on DNR trail maps and is likely not sponsored by the DNR.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		92	Log/Pole/XLog	10	54	Red Maple	High	Variable	Sapling
						Balsam Fir	Low	Variable	Sapling
						White Pine	Trace	Variable	Sapling
5	4123 - Red Oak	Sapling Medium	11.4	7	Immature	N/A	The red oak regenerated really well from stump sprouts and are past deer browsing height. Scattered large log sized red oak were retained during the last harvest; mostly at the north end. This stand was harvested in the fall of 2012 as part of Sale No.: 54-006-11-01; Timber Sale Name: 105 Norway Ridge Pine.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Oak		83	Sapling	1	7				
Balsam Fir		10	Sapling	1					
6	500 - Water	Nonstocked	1.6			No	Lower South Branch Thunder Bay River		
7	6113 - Lowland Maple	Sawtimber Well	64.8	104	141-170	N/A	This stand was flooded and inaccessible in April of 2019. Therefore the age of this stand was estimated using the age of a similar stand in Compartment 88 along the river to the South. The Lower South Branch of the Thunder Bay River runs through this stand. This is flood plain forest that should be protected. This stand slows the flow of flood waters in the spring when there is a fast snow melt.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		98	Log/XLog/Pole	16	104	Green Ash	Low	Variable	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
8	42220 - Natural Jack Pine	Poletimber Well	3.0	51	51-80	N/A	The jack pine in this stand, while relatively young, are declining in quality/experiencing mortality and should be harvested.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		85	Pole	7	51	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
						Balsam Fir	High	< 5 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
9	429 - Mixed Upland Conifers	Sapling Poor	5.5	9	1-50	N/A	The age of this stand was taken from a jack pine sapling cut off at the base. This stand could be treated as two-aged as there is enough balsam fir of pole size to warrant this. This stand should be managed for the younger age class that is dominated by jack pine.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Jack Pine		51	Sapling	2	9					
Balsam Fir		20	Pole/Sapling	6	20					
Black/Red (Hybrid) Oak		20	Sapling	2						
10	6113 - Lowland Maple	Sawtimber Medium	9.9	80	51-80	N/A	The red maple in this stand are highly variable in size. This stand is too wet to harvest. There is not as much EAB killed pole sized ash in this stand as there is in Stand 2 to the north.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		96	Log	15	80	Balsam Fir		Low	< 5 feet	Sapling
11	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	17.2	48	81-110	N/A	It is likely that this stand was aspen dominate and when the aspen died out balsam fir in the understory took over. There is a couple acre lowland maple pocket to the north. This stand would be harvest but it is made inaccessible by adjacent lowlands and private land.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		10	Log	12		Balsam Fir		Medium	Variable	Sapling
Red Maple		20	Log	12	86					
Balsam Fir		53	Pole	6	48					
12	6130 - Fir, Aspen, Maple	Poletimber Well	8.4	52	51-80	N/A	The western half of this stand is upland and the eastern half of this stand is lowland.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		22	Log	12		Balsam Fir		Medium	Variable	Sapling
Quaking Aspen		35	Pole/Log	8	40	Ash (spp.)		High	10 - 20 feet	Sapling
Balsam Fir		36	Pole/Sapling	7	52					
13	4310 - Pine, Oak Mix	Sawtimber Well	10.0	107	51-80	N/A	Legacy type oak and red pine are present. This stand has a wide range in DBH for pine and oak canopy trees. A 7 inch DBH oak aged at 53 years and an 8 inch DBH red pine aged at 57 years in 2019. This stand likely saw some sort of partial harvest in the mid 1960's. There is a power line running through the east side of this stand. There are a few nice wildlife openings to the west. This stand has many characteristics the benefit wildlife. Many oak and pine in this stand are of large diameter and form that make them undesirable for harvest,			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		45	XLog/Log	22	107	Balsam Fir		Low	5 - 10 feet	Sapling
White Pine		20	Log/Pole	10		Ash (spp.)		Low	< 5 feet	Sapling
Red Pine		30	Log/Pole	13		Black Spruce		Trace	Variable	Sapling
						Black/Red (Hybrid) Oak		Medium	Variable	Sapling
14	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	18.6	85	111-140	N/A	Much of the white pine in this stand is extremely tall has excessive branching. There are some quality logs present in the lower boles of these white pine. Having small diameters and tall height these semi-old white pine must have grown in heavy competition. There may not be much wildlife benefit in letting this white pine dominated stand to continue to grow.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black/Red (Hybrid) Oak		27	Log/Pole/XLog	14		Red Maple		High	Variable	Sapling
White Pine		65	Log/Pole	11	85	White Pine		Medium	Variable	Sapling
						Red Pine		Trace	Variable	Sapling
15	42110 - Planted Red Pine	Poletimber Well	23.1	39	81-110	N/A	This stand has about a 30% live crown ratio. 2021 YOY Inventory BA Measurements (160, 160, 60, 120, 150). This stand was third row thinned.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		95	Pole/Sapling	5	39	Black/Red (Hybrid) Oak		Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
16	4130 - Aspen	Poletimber Well	2.5	44	51-80	N/A	This stand is currently making a nice cover break between white pine/oak forest and red pine forest. This area was planted to red pine but was taken over by aspen.																																						
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17	42250 - Pine, Oak	Sawtimber Medium	11.1	107	1-50	N/A	This stand was seed tree harvested in the fall of 2012 as part of Sale No.: 54-006-11-01; Timber Sale Name: 105 Norway Ridge Pine. The basal area varies from 20-70 square feet. There is noticeable diameter gain in the oak since the 2012 harvest. The last harvest was more of a shelterwood than a seed tree. The remaining oak are of poorer quality. The red pine vary widely in diameter and likely in age. Manage for the understory, though taking the top off is an option. There is a good amount of oak regeneration that is past browse height and free to grow.  The last harvest prescription read as follows: (Do not cut white pine, if present. Mark red pine residual to average tree height spacing. Require whole tree skidding of red pine, with chipping of tops. Leave all oak. Post sale: Scarify sale area to regenerate red pine and oak, but may exclude areas of good white pine regeneration) The scarification never took place.																																						
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20	4131 - Aspen, Oak	Sawtimber Well	3.0	48	111-140	N/A	The northern 1 acre dominated by aspen about 13 years younger (35 years in 2019). This is a borderline log stand. This stand is a nice compliment to the A3 and A6 stands to the north. MA wide we are restarting more aspen acres than are needed due to old age and acres becoming accessible. Hold off on harvesting this stand until the 2031 YOE.																																						
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21	122 - Road/Parking Lot	Nonstocked	7.0		Immature	No	This is Indian Reserve Road.																																						
22	42200 - Natural White Pine	Sawtimber Well	25.7	93	111-140	N/A	The northern 1/3 of this stand was thinned in 2008. Much of the white pine in this stand is extremely tall and has excessive branching. There are some quality logs present in the lower boles of these white pine. Having small diameters and tall height these semi-old white pine must have grown in heavy competition.																																						
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23	4130 - Aspen	Sapling Well	13.6	15	Immature	N/A	A harvest of this stand was completed on 9/22/04; Sale Name Barber Queued Red Pine; Sale Number 54-024-02-01. Scattered log sized oak, and pine were retained during the last harvest. Pockets of red pine naturally seeded in to this stand; adding some nice diversity.																														
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24	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	7.2	62	141-170	N/A	2021 YOE Inventory BA Measurements (160, 190, 150, 140, 140).																														
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25	4125 - Black, N. Pin Oak	Sawtimber Medium	0.8	109	51-80	N/A																															
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26	330 - Low-Density Trees	Nonstocked	3.4			No	There is some sapling scotch pine present. This wildlife opening is slowly growing over with trees. Now would be a good time to set back the woody vegetation if the goal is to maintain this as a wildlife opening. This opening is an ideal candidate to maintain with prescribed burning.																														
27	4121 - Oak, Aspen	Sawtimber Well	4.5	109	1-50	N/A	The oak are very large. The oak are suppressing the intermediate canopy trees. The second age class of trees likely resulted from some type of canopy thinning.																														
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28	42110 - Planted Red Pine	Sawtimber Well	11.7	68	171-200	N/A	2021 YOE BA Measurements (150, 160, 220, 180, 240). On average their is about 20% live crown ratio. This stand was third row thinned in the past. There is an active hawk's nest in the east-central portion of this stand. Both hawks made their presence known during inventory.																														
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30	500 - Water	Nonstocked	4.3			No	This is the Lower South Branch of the Thunder Bay River.																														





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<b>31</b>	6113 - Lowland Maple	Sawtimber Well	22.1	104	141-170	N/A	This stand was flooded and inaccessible in April of 2019. Therefore the age of this stand was estimated using the age of a similar stand in Compartment 88 along the river to the South. The Lower South Branch of the Thunder Bay River runs through this stand. This is flood plain forest that should be protected. This stand slows the flow of flood waters in the spring when there is a fast snow melt.																																															
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<b>32</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	1.2	48	141-170	N/A	A majority of this stand, with the exception of the planted red pine were clear-cut around 20 years after the red pine were planted. The aspen are the main evidence of this.																																															
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<b>33</b>	42200 - Natural White Pine	Poletimber Well	1.4	30	1-50	N/A	This stand is a good example for regenerating white pine. The white pine is overly dense in some areas but will self thin.																																															
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<b>34</b>	4122 - Oak, Pine	Sawtimber Well	15.0	97	81-110	N/A	This stand was thinned in 2008. The red pine is more concentrated to the north. The oak aged shows very minute diameter growth. There is a more diverse forest within 30 feet of the the edge of the Lower South Branch of the Thunder Bay River. This diversity includes swamp white oak, spruce, and basswood.																																															
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<b>35</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	13.5	27	1-50	N/A	A seed tree harvest was completed on this stand in June of 1992. This stand has scattered pockets of log sized oak and scattered xlog sized scotch pine that were retained during the last harvest. The retained oak and scotch pine are less than 10 BA on average.																																															
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<b>36</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.9	27	1-50	N/A	A seed tree harvest was completed on this stand in June of 1992. This portion of the 1992 cut had very few if any seed trees retained in the canopy.																																															
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<b>37</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	146.5	31	1-50	N/A	This is a very large stand. Portions of the north and south of this stand were walked. Overall, the overstory composition over the spread of this stand seems to be consistent.																																			
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<b>38</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	15.7	97	1-50	N/A	In 2008 all merchantable jack pine, scotch pine, aspen, and red maple were removed. The 2011 YOE Inventory notes say to manage for the white pine in the understory.																																			
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<b>39</b>	42200 - Natural White Pine	Sawtimber Medium	25.9	90	81-110	N/A	This stand was thinned in 2008. The white pine are largest at the north and south extremes of the stand. The red pine are concentrated in the SE corner.																																			
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<b>40</b>	42200 - Natural White Pine	Poletimber Poor	6.1	20	1-50	N/A	This is a wildlife opening that has grown over. In the areas where there is not tree regeneration there is raspberry and blackberry.																																			
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<b>41</b>	6122 - Black Spruce	Poletimber Well	1.6	70	51-80	N/A	This stand is unlikely to be harvested due to it being surrounded by lowland.																																			
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<b>42</b>	622 - Lowland Shrub	Nonstocked	58.6		Immature	No	This is lowland low density trees/lowland shrub.																																			
<b>43</b>	6121 - Tamarack	Poletimber Medium	18.8	57	51-80	N/A	This stand is too wet to harvest. The western 2/3 of this stand was walked and the eastern quarter looks to be similar but somewhat less dense in timber. This stand holds water and has a dense lowland shrub understory that makes it difficult to traverse.																																			
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44	330 - Low-Density Trees	Nonstocked	7.6	0		4211 - Planted Red Pine	This stand is scheduled for the planting of red pine. This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.																																										
45	622 - Lowland Shrub	Nonstocked	11.5			No																																											
46	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.2	78	81-110	N/A	This stand currently makes a nice transition area between covertypes.																																										
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47	6112 - Lowland Aspen	Poletimber Medium	36.5	26	1-50	N/A	The regenerating stand is doing well. Wet areas with tag alder are scattered throughout.																																										
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48	6220 - Alder/willow	Nonstocked	2.4		Immature	No																																											
49	4136 - Aspen, Mixed Conifer	Sapling Medium	25.0	26	1-50	N/A	This stand was harvested as part of Timber Sale: Name: Terrier Block; Sale No.: 54-019-91-01 that was TCR'ed in May of 1993. All merchantable trees were harvested with the exception of cedar and pine.																																										
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51	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	22.5	72	1-50	N/A	This stand is too wet to harvest. There looks to be a 1 acre white pine inclusion pocket to the northeast where the stand was not visited.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>52</b>	6113 - Lowland Maple	Sawtimber Medium	35.7	78	51-80	N/A	This stand is mostly lowland maple with scattered upland pockets. The upland pockets contain legacy type red and white pine.																																													
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<b>53</b>	6126 - Lowland Jack Pine	Poletimber Well	7.3	48	81-110	N/A	The northeastern half of the stand has most of the red and white pine.																																													
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<b>54</b>	42210 - Natural Red Pine	Sawtimber Well	8.2	77	111-140	N/A	2021 YOE BA Measurements (120, 130, 160, 130, 110, 180). A prescribed burn took place in this stand in 1994. The only significant red pine regeneration is at the east end of the stand in about a 2 tenth of an acre area. A creek runs east-west at the northeast tip of the stand. This stand should be managed with the small red pine stand to the northeast.																																													
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<b>55</b>	622 - Lowland Shrub	Nonstocked	55.1		Immature	No	This stand was harvested as part of Timber Sale: Name: Terrier Block; Sale No.: 54-019-91-01 that was TCR'ed in May of 1993. All merchantable trees were harvested with the exception of cedar and pine.																																													
<b>56</b>	6139 - Mixed Lowland Forest	Poletimber Well	30.4	41	51-80	N/A	This stand is too wet to harvest. In the spring of 2019 much of this stand was holding water. Some of the stand was traversed and in other areas edge calls were made on overstory and understory species content.																																													
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<b>57</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	47.8	41	51-80	N/A	Aspen is dominate near Norway Ridge Trail but this is not representative of the stand as a whole. Red pine, white pine, and cedar were retained as scattered individuals and in pockets during the last harvest.																																													
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<b>58</b>	42220 - Natural Jack Pine	Poletimber Well	1.8	44	1-50	N/A	The jack pine are in poor health.																																									
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<b>59</b>	42200 - Natural White Pine	Sawtimber Well	2.4	41	51-80	N/A	The white pine tend to be bushy with many limbs.																																									
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<b>60</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	12.2	52	1-50	N/A	The white pine are in the the eastern 1/3 of this stand.																																									
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<b>61</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	40.4	41	51-80	N/A	Much of this stand had standing water in April of 2019. This stand is likely harvestable in dry summer. There are lowland shrub pockets mixed in. Cedar was retained during the last harvest and pockets of log sized cedar can be found throughout the stand.																																									
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<b>62</b>	42210 - Natural Red Pine	Sawtimber Well	3.3	187	141-170	N/A	2021 YOE Inventory BA Measurements (220, 260, 150, 100, 150). The stand is more dense towards the south end. The pine tend to be larger diameter to the north. Records show that the southern quarter-quarter was planted to red pine and jack pine in 1929. The 15 inch DBH red pine aged at the north end of the stand was much older and therefore not part of the 1929 planting. There are legacy red and white pine present. Due to the tight growth rings the age of the red pine is +/- 10 years.																																									
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<b>63</b>	42210 - Natural Red Pine	Sawtimber Well	14.3	120	111-140	N/A	2021 YOE Inventory BA Measurements (120, 150, 110). Records show that this quarter-quarter was planted to red pine, white pine, and jack pine in 1929. The aging of an average DBH red pine indicates a stand start date closer to 1899. There are scattered legacy type red and white pine. The BA is highly variable. There are small pockets that could use a thinning but most of the red pine have ample crown.																																									
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<b>64</b>	4311 - Pine, Aspen Mix	Sawtimber Well	22.0	40	81-110	N/A	Records show that these quarter-quarters were planted to red pine and jack pine in 1929. In April of 2019 aging a 15" DBH red pine gave 72 years. This indicates a red pine start date of around 1947. This stand had some sort of thinning or species removal in 1979 resulting in the aspen we see today.																																						
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<b>65</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	32.2	41	51-80	N/A	Patches of lowland shrub are present throughout. The majority of this stand is too wet to harvest. In the spring of 2019 much of this stand was holding water. Some of the stand was traversed and in other areas edge calls were made on overstory and understory species content.																																						
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<b>66</b>	42210 - Natural Red Pine	Sawtimber Well	8.1	85	81-110	N/A	Records show the quarter-quarter containing the southeast portion of this stand was planted to red pine, white pine, and jack pine in 1929. An average sized red pine aged with a start year of 1934 which could have been planted stock. It is likely that much of the red pine in this stand was naturally regenerated as it appears the red pine have a wide age range. Legacy red and white pine are present.																																						
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<b>67</b>	622 - Lowland Shrub	Nonstocked	1.8		Immature	No	This is a lowland shrub stand with areas of lowland low density trees.																																						
<b>68</b>	42210 - Natural Red Pine	Sawtimber Well	1.1	106	141-170	N/A	Records show that this quarter-quarter was planted to red pine, white pine, and jack pine in 1929. Aging of the red pine in this stand indicates that this stand is older than the planted stock and was started in 1913. This stand is separated from the red pine to the south by a narrow drainage an was kept separate due to its older characteristics.																																						
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<b>70</b>	42210 - Natural Red Pine	Sawtimber Well	1.9	82	141-170	N/A	2021 YOE Inventory BA Measurements (150, 170, 170). Records show that this quarter-quarter was planted to red pine and jack pine in 1929. Aging of an average size red pine indicates that the stand start date was closer to 1937. This is likely natural red pine. This stand is separated from the red pine to the north by a narrow lowland area, but this stand would best be managed with the red pine to the north.																																						
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72	110 - Low Intensity Urban	Nonstocked	11.5			No	This is a power line that runs across rolling hills and lowland areas.																																								
73	42210 - Natural Red Pine	Sawtimber Well	2.9	82	141-170	N/A	Records show that this quarter-quarter was planted to red pine and jack pine in 1928. Really nice tall red pine are along the ski trail into the south. Most red pine have a decent amount (approx. 20% live crown) of crown left. Some of the red pine to the south has a 200+ BA.																																								
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76	42210 - Natural Red Pine	Sawtimber Well	11.1	89	81-110	N/A	2021 YOE Inventory BA Measurements (140, 110, 120). In 1986 all aspen, red maple, paper birch, jack pine, white pine, black ash, and white spruce with a merchantable stick were harvested. Records show that this quarter-quarter was planted to red pine and jack pine in 1929. Aging indicates that the planting record is somewhat accurate. This stand is thought to be a mix of planted stock and natural regen. The dense white pine understory more than likely resulted from the 1986 species removal.																																								
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<b>78</b>	42210 - Natural Red Pine	Sawtimber Well	4.8	79	111-140	N/A	2021 YOE Inventory BA Measurements (120, 210, 130, 120, 50, 120). Records show this stand was planted to red pine, white pine, and jack pine in 1929. Aging of an average DBH red pine indicates that this stand started around closer to 1940.  When making decisions for managing this stand a thorough walk through should be completed on the ground to determine what features of the stand (diversity, wildlife value, old growth, natural communities, etc.) should be protected.																																						
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<b>79</b>	622 - Lowland Shrub	Nonstocked	6.4			No																																							
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<b>81</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	3.2	82	1-50	N/A																																							
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<b>82</b>	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	8.3	34	51-80	N/A	In 1986 all aspen, red maple, paper birch, jack pine, white pine, black ash, and white spruce with a merchantable stick were harvested. This stand is a mix of mixed lowland forest and lowland shrub. There are scattered log sized red pine legacy trees present that were retained during the last harvest.																																						
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<b>83</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.0	82	111-140	N/A	Records show that this quarter-quarter was planted to red pine and jack pine in 1928. Aging of the average size red pine indicates that this stand was started somewhere around 1937.																																						
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<b>84</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	18.9	60	1-50	N/A	This is a lowland stand with scattered windthrow and universal black ash die off. The stand is generally low volume. This stand sits in a bowl like area between ridges and is too wet to harvest.																																						
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<b>85</b>	42210 - Natural Red Pine	Sawtimber Well	6.7	82	81-110	N/A	Records show that the quarter-quarters containing the majority of this stand were planted to red pine and jack pine in 1928. Aging of an average size red pine indicates that the stand start date was closer to 1937. This is likely natural red pine.																																								
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<b>86</b>	6113 - Lowland Maple	Sapling Well	2.0	7	1-50	N/A	It appears that a straight line wind event blew down all but a few scattered trees in this stand somewhere around 2012. This stand is too wet to harvest.																																								
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<b>87</b>	42200 - Natural White Pine	Sawtimber Well	4.9	70	81-110	N/A	This stand is difficult to access. There are lowland pockets/lowland shrub pockets present.																																								
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<b>88</b>	42290 - Natural Mixed Pine	Sawtimber Well	5.7	84	51-80	N/A	Records show that this quarter-quarter was planted to red pine and jack pine in 1929. Aging of the red pine in this stand indicate that this stand was started around 1935. The red pine in this stand is likely naturally regenerated.																																								
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Red Pine	55	XLog/Log	18	84																																											
Jack Pine	25	Pole	6	48																																											
Canopy Species	Density	Avg. Height	Size																																												
Red Pine	Trace	Variable	Sapling																																												
Balsam Fir	Low	Variable	Sapling																																												
Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub																																												
<b>89</b>	42210 - Natural Red Pine	Sawtimber Well	2.3	129	1-50	N/A	In 1986 all aspen, red maple, paper birch, jack pine, white pine, black ash, and white spruce with a merchantable stick were harvested. Records show that this quarter-quarter was planted to red pine and jack pine in 1929. Aging of the average DBH red pine indicates a stand start date of closer to 1890. A 20 DBH red pine in this stand aged the same as a 14 DBH red pine in the stand to the east.																																								
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<b>90</b>	500 - Water	Nonstocked	6.3			No																																									
<b>91</b>	622 - Lowland Shrub	Nonstocked	1.4			No																																									
<b>92</b>	6120 - Lowland Cedar	Sawtimber Well	3.1	115	141-170	N/A																																									
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<b>93</b>	6120 - Lowland Cedar	Sawtimber Medium	7.3	120	141-170	N/A	This stand is experiencing some windthrow. This stand is too wet to harvest.																																																															
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<b>94</b>	622 - Lowland Shrub	Nonstocked	4.8		Immature	No																																																																
<b>95</b>	42210 - Natural Red Pine	Sawtimber Well	3.3	82	141-170	N/A	2021 YOE Inventory BA Measurements (90, 130, 160, 140, 160) Records show that this quarter-quarter was planted to red pine and jack pine in 1928. Aging of an average size red pine indicates that the stand start date was closer to 1937. This is likely natural red pine.																																																															
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<b>96</b>	6120 - Lowland Cedar	Sawtimber Well	1.7	120	141-170	N/A	This stand has some windthrow. This stand is too wet to harvest.																																																															
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<b>97</b>	42290 - Natural Mixed Pine	Sawtimber Medium	5.1	63	1-50	N/A	Purchased 2011. All pine are open grown and have large crowns.																																																															
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<b>98</b>	330 - Low-Density Trees	Nonstocked	54.7	0	Immature	4211 - Planted Red Pine	This is the higher ground of a larger harvest that planted red pine is more likely to survive on. This stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.																																																															
<b>99</b>	3102 - Grass	Nonstocked	1.7			No	This clearing is an od homested.																																																															
<b>100</b>	4319 - Mixed Upland Forest	Sawtimber Medium	1.4	85	51-80	N/A	Due to time constraints on the day that this area was walked, and the remoteness/minimal size of this stand, the data for this stand was estimated using the data for Stand 168 that is 400 ft. to the west-northwest.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
101	330 - Low-Density Trees	Nonstocked	76.3	0		613 - Lowland Mixed Forest	This is a portion of the surrounding harvest that was considered too wet for planting red pine. This portion will likely go to lowland mixed forest and will not be planted since it is too wet to plant. A seed tree harvest was completed on this stand in the fall of 2012. The seed tree was considered a failure. Then stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16. (leatherleaf, wintergreen, braken fern. sometimes very high to leatherleaf)																																				
102	330 - Low-Density Trees	Nonstocked	4.8	0		613 - Lowland Mixed Forest	This is a portion of the surrounding harvest has been marked out as being too wet for the planting of red pine. This portion will likely go to lowland mixed forest and will not be planted since it is too wet to plant.  A seed tree harvest was completed on this stand in the fall of 2012. The seed tree was considered a failure. Then stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16.																																				
103	6113 - Lowland Maple	Sapling Well	1.1	34	1-50	N/A	A narrow strip of tag alder and Michigan Holly runs the full length of the northern edge of the stand. In 1986 all aspen, red maple, paper birch, jack pine, white pine, black ash, and white spruce with a merchantable stick were harvested.																																				
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104	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	16.1	69	1-50	N/A	Much of the paper birch is dying and falling out of the stand. This stand is too wet to harvest. The age of the paper birch was estimated due to the inside of the paper birch being rotten.																																				
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105	330 - Low-Density Trees	Nonstocked	4.7	0		613 - Lowland Mixed Forest	This is a portion of the surrounding harvest that was to be planted to red pine. This portion will likely go to lowland mixed forest and will not be planted since it is too wet to plant. A seed tree harvest was completed on this stand in the fall of 2012. The seed tree was considered a failure. Then stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16. (leatherleaf, wintergreen, braken fern. sometimes very high to leatherleaf)																																				
106	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	8.9	82	51-80	N/A	This stand has alternating areas of red maple and paper birch dominance. The paper birch are dying off. A few higher ground pockets and cedar pockets are present. This stand is too wet to harvest.																																				
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107	330 - Low-Density Trees	Nonstocked	11.8	0		613 - Lowland Mixed Forest	This is a portion of the surrounding harvest that was considered too wet for planting red pine. This portion will likely go to lowland mixed forest and will not be planted since it is too wet to plant. A seed tree harvest was completed on this stand in the fall of 2012. The seed tree was considered a failure. Then stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16. (leatherleaf, wintergreen, braken fern. sometimes very high to leatherleaf)																																				



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<b>108</b>	330 - Low-Density Trees	Nonstocked	8.7	0		613 - Lowland Mixed Forest	This is a portion of the surrounding harvest that was considered too wet for planting to red pine. This portion will likely go to lowland mixed forest and will not be planted since it is too wet to plant. A seed tree harvest was completed on this stand in the fall of 2012. The seed tree was considered a failure. Then stand was harvested on 11/29/17 as part of Timber Sale Name: Flyby Pine; Sale No.: 54-050-16. (leatherleaf, wintergreen, braken fern. sometimes very high to leatherleaf)																																				
<b>109</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	12.1	55	51-80	N/A	This stand was mostly flooded in the spring of 2019. This stand is too wet to harvest.																																				
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<b>110</b>	42210 - Natural Red Pine	Sawtimber Well	4.7	79	111-140	N/A	Records show that this quarter-quarter was planted to red pine and jack pine in 1929. The aging of an average sized red pine indicates a stand start data of closer to 1940.																																				
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<b>111</b>	6120 - Lowland Cedar	Sawtimber Well	1.2	152	171-200	N/A	Much wind thrown cedar is present.																																				
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<b>112</b>	42360 - Upland Cedar	Sawtimber Well	4.1	120	141-170	N/A	This stand was very wet in the spring of 2019. There was water draining throughout the stand. Scattered cedar windthrow is present. This stand is too wet to harvest.																																				
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<b>113</b>	42210 - Natural Red Pine	Sawtimber Well	2.9	129	111-140	N/A	In 1986 all aspen, red maple, paper birch, jack pine, white pine, black ash, and white spruce with a merchantable stick were harvested. Records show that this quarter-quarter was planted to red pine and jack pine in 1929. Aging of the average DBH red pine indicates a stand start date of closer to 1890. The BA is highly variable.																																				
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<b>114</b>	622 - Lowland Shrub	Nonstocked	0.7		Immature	No																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>115</b>	42210 - Natural Red Pine	Sawtimber Well	10.1	119	111-140	N/A	In 1986 all aspen, red maple, paper birch, jack pine, white pine, black ash, and white spruce with a merchantable stick were harvested. Records show that this quarter-quarter was planted to red pine and jack pine in 1929. Aging of the average DBH red pine indicates a stand start date of closer to 1900. Where the stand was opened up in 1986 in the west arm of the stand the regen is diverse and approaching pole size.																																								
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<b>116</b>	330 - Low-Density Trees	Nonstocked	2.8		Immature	No	This is lowland low density trees with a full understory of lowland shrub.																																								
<b>117</b>	42250 - Pine, Oak	Sawtimber Well	2.3	95	81-110	N/A	An edge call was made on this stand at the end of a work day. This stand has a pocket of oak dominated overstory which is rare in the immediate area. This stand contains wet pockets/lowland shrub pockets.																																								
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<b>118</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.6	82	81-110	N/A	Most of this stand is on a steep south aspect. The Norway Ridge Pathway runs through this stand.																																								
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<b>119</b>	6118 - Lowland Deciduous with Cedar	Poletimber Poor	1.0	53	1-50	N/A	This stand is too wet to harvest and lacks desirable harvest volume.																																								
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<b>120</b>	622 - Lowland Shrub	Nonstocked	1.7		Immature	No	There is a blanket of black ash saplings in some areas that are likely to die to EAB.																																								
<b>121</b>	42290 - Natural Mixed Pine	Sawtimber Well	4.3	82	111-140	N/A	Records show that this quarter-quarter was planted to red pine and jack pine in 1928. Legacy red and white pine are present. Aging of the average sized red pine indicates that this stand was started closer to 1937,																																								
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<b>122</b>	622 - Lowland Shrub	Nonstocked	2.2		Immature	No	Stand swapped from Non-Forested to Forested.																																								



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<b>123</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	7.3	34	1-50	N/A	In 1986 all aspen, red maple, paper birch, jack pine, white pine, black ash, and white spruce with a merchantable stick were harvested. Scattered legacy red pine are present. There areas that are dominate to white pine and areas that are dominate to red maple. There is an aspen dominated pocket to the northwest.																																																						
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<b>124</b>	6113 - Lowland Maple	Sawtimber Poor	5.5	102	51-80	N/A																																																							
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<b>125</b>	42210 - Natural Red Pine	Sawtimber Well	0.7	80	141-170	N/A	Manage this red pine pocket with the red pine to the northwest. These stands are connected by a narrow upland pocket of white pine.																																																						
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<b>126</b>	42210 - Natural Red Pine	Sawtimber Well	10.0	89	81-110	N/A	Records show that this quarter-quarter was planted to red pine, white pine, and jack pine in 1929. Aging indicates that the planting record is somewhat accurate. This stand is thought to be a mix of planted stock and natural regen. 2021 YOE Inventory BA Measurements (100, 160) There are scattered legacy type red pine. A 14 DBH red pine aged at 68 and a 16 DBH red pine aged at 89. The BA is sporadic. There are small pockets that could use a thinning but most of the red pine have ample crown.																																																						
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<b>127</b>	42210 - Natural Red Pine	Sawtimber Well	7.1	79	81-110	N/A	2021 YOE Inventory BA Measurements (90, 70, 130, 160, 80). Norway Ridge Pathway runs though this stand. Maintain the stand as is, if possible, to protect its recreation/aesthetic value.																																																						
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<b>128</b>	42210 - Natural Red Pine	Sapling Well	25.4	15	Immature	N/A	There was an understory burn that took place that led to the excellent red pine regeneration that we see in this stand.																																																						
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129	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	6.7	70	1-50	N/A	This stand is too wet to harvest. The overstory is patchy with scattered windthrow. Overstory trees are dying off in places due to the highly saturated soil.																																											
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130	6113 - Lowland Maple	Sawtimber Poor	3.3	60	1-50	N/A	wet, much windthrow																																											
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132	6230 - Cattail	Nonstocked	1.2		Immature	No																																												
133	42210 - Natural Red Pine	Sawtimber Well	8.9	106	111-140	N/A	2021 YOE Inventory BA Measurements (130, 130, 110, 120, 140). Records show that this quarter-quarter was planted to red pine and jack pine in 1929. Aging a 17" DBH red pine in the spring of 2019 gave a clearly older age of 106 and a start year of 1913.																																											
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134	6230 - Cattail	Nonstocked	1.3		Immature	No																																												
135	42210 - Natural Red Pine	Sawtimber Well	8.9	80	141-170	N/A	2021 YOE BA Measurements (110, 180, 160, 180, 190). The red pine diameter and density varies throughout. There is a piece of high ground that connects this stand to the small red pine stand to the southeast so that this red pine can be managed together. Records show that this quarter-quarter was planted to red pine and jack pine in 1929, but aging of the red pine indicates that this stand started closer to 1949. The prescribed burn in 1994 appears to have encouraged dense red pine regeneration in areas without a canopy at the south end of the stand. The open areas where this red pine regeneration has come in thick can be seen as open areas in the 1998 imagery. Under the dense red pine canopy there is little red pine regeneration.																																											
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136	42210 - Natural Red Pine	Sawtimber Well	6.6	73	171-200	N/A	2021 YOE Inventory BA Measurements ( 210, 200,130, 190,180). (leatherleaf, wintergreen, braken fern. sometimes very high to leatherleaf)																																											
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<b>137</b>	6120 - Lowland Cedar	Sawtimber Well	1.4	110	Unspecified	N/A	This is a nice health cedar dominated stand. Due to time constraints when this stand was visited, the age of this stand was based on the age of similar sized cedar to the north.																																																						
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<b>138</b>	42210 - Natural Red Pine	Sawtimber Well	2.2	77	111-140	N/A	2021 YOE BA Measurements (120, 130, 160, 130, 110, 180). This stand is a continuation of the red pine stand to the southeast.																																																						
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<b>140</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	4.3	78	81-110	N/A	This is a nice ridge with some oak for wildlife. The cedar is located mostly along the lower edges.																																																						
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<b>141</b>	6113 - Lowland Maple	Sawtimber Well	9.2	78	51-80	N/A	This stand is too wet to harvest. Most of this stand was covered in standing water in April of 2019. Areas of the stand have sparse timber.																																																						
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<b>142</b>	6113 - Lowland Maple	Sapling Well	2.8	48	1-50	N/A	This stand had much standing water in April of 2019. The stand looks like it would be harvestable in dry summer.																																																						
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<b>144</b>	622 - Lowland Shrub	Nonstocked	1.1		Immature	No																																																		
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<b>145</b>	6139 - Mixed Lowland Forest	Sawtimber Medium	2.6	80	81-110	N/A	This small stand needs a visit to verify its composition.																																																	
<b>146</b>	42290 - Natural Mixed Pine	Sawtimber Well	2.5	80	111-140	N/A	Nice you upland ridge with much of it being fairly open grown pine.																																																	
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<b>147</b>	4134 - Aspen, Spruce/Fir	Sapling Poor	2.5	27	1-50	N/A	This is a nice semi-open upland pocket. Consider different management than the surrounding area to maintain diversity.																																																	
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<b>149</b>	6120 - Lowland Cedar	Sawtimber Medium	4.0	105	141-170	N/A																																																		
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<b>150</b>	6122 - Black Spruce	Poletimber Well	10.8	70	51-80	N/A	Most of this stand is too wet to harvest. There is the possibility that that the southern edge of this stand along with the small upland pine stand to the west could be harvested.																																																	
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<b>151</b>	6123 - Lowland Fir	Poletimber Well	1.1	60	51-80	N/A																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>152</b>	6126 - Lowland Jack Pine	Sawtimber Well	1.9	63	81-110	N/A	This is long term retention from the sale to the south.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Red Pine		15	Log/Pole	11		Leatherleaf	
White Pine		15	Log/Pole	12		High	
Black Spruce		10	Log/Pole	10		< 5 feet	
Jack Pine		60	Pole/Log	9	63	Tall Shrub	
<b>153</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.8	80	51-80	N/A	The stand data is more representative of the upland northwestern half of the stand. The eastern portion of the stand is lowland and more dominate to large pole sized red maple.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Red Maple		64	Log/Pole	12	80	Balsam Fir	
Paper Birch		15	Pole/Log	9		Low	
Black Spruce		15	Pole/Log	8		5 - 10 feet	
						Sapling	
						Tag Alder	
						Low	
						10 - 20 feet	
						Tall Shrub	
						Black Spruce	
						Low	
						Variable	
						Sapling	
<b>154</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.0	31	1-50	N/A	This small stand was not walked due to time constraints. The stand data was estimated using data from stand 37 to the west.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Red Maple		46	Pole/Sapling	5	31	Balsam Fir	
Paper Birch		15	Sapling	4		Medium	
Quaking Aspen		15	Pole/Sapling	5	31	Variable	
Balsam Fir		15	Sapling	3		Sapling	
						Tag Alder	
						Low	
						Variable	
						Tall Shrub	
<b>155</b>	6112 - Lowland Aspen	Poletimber Well	59.8	44	51-80	N/A	The diameter of the aspen is highly variable. There are wet fingers and veins with tag alder throughout the stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Red Maple		25	Pole	8		Balsam Fir	
Quaking Aspen		66	Pole/Log	8	44	Low	
						Variable	
						Sapling	
						Tag Alder	
						Low	
						5 - 10 feet	
						Tall Shrub	
						Red Maple	
						Low	
						Variable	
						Sapling	
<b>156</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	10.3	55	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Red Maple		58	Pole/Log	9	55	Balsam Fir	
Paper Birch		22	Log/Pole	10		Low	
Balsam Fir		10	Pole/Log	8		Variable	
Northern White Cedar		10	Log	11		Sapling	
						Tag Alder	
						Full	
						10 - 20 feet	
						Tall Shrub	
						Ash (spp.)	
						Low	
						Variable	
						Sapling	
<b>157</b>	6139 - Mixed Lowland Forest	Sapling Well	9.8	26	1-50	N/A	This stand was divided out from the stand to the east based on its more consistent canopy. The tamarack can be distinguished from the aspen in the 2014 CIR imagery. The peach aspen pockets are to the east while the pea green tamarack is mostly to the west. This stand was harvested as part of Timber Sale: Name: Terrier Block; Sale No.: 54-019-91-01 that was TCR'ed in May of 1993. All merchantable trees were harvested with the exception of cedar and pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Quaking Aspen		28	Sapling/Pole	4	26	Tag Alder	
Tamarack		54	Sapling	4	26	Low	
Red Maple		15	Sapling/Pole	4		Variable	
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						Low	
						Variable	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
<b>158</b>	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	11.7	52	1-50	N/A	There is a 1.5 acre upland pocket in the middle of the stand. The tamarack is mostly to the east. This stand was only accessible by foot through a narrow passage to the south. This stand is too wet to harvest.																																						
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<b>159</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	5.3	78	51-80	N/A																																							
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<b>160</b>	6113 - Lowland Maple	Sawtimber Well	10.6	78	81-110	N/A	This is a low ground stand but looks to be harvestable. The paper birch seem to be thriving in this stand but are dying off in the more saturated northwest corner. The red maple are slow to put on diameter due to competition and semi-saturated soil.																																						
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<b>161</b>	623 - Emergent Wetland	Nonstocked	0.6			No																																							
<b>162</b>	622 - Lowland Shrub	Nonstocked	2.6	0		No	There are some trees in this stretch but for all intensive management purposes this is lowland shrub.																																						
<b>163</b>	330 - Low-Density Trees	Nonstocked	3.0		Immature	No	This is scattered mixed trees among lowland tag alder. There is an inclusion pocket of lowland deciduous at the west end. There is a seasonal drainage that runs along the northern edge of this stand that can be seen in the 1998 imagery.																																						
<b>164</b>	6116 - Lowland Birch	Sawtimber Poor	2.2	80	1-50	N/A	There is a seasonal drainage that runs along the northern edge of this stand that can be seen in the 1998 imagery.																																						
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<b>165</b>	429 - Mixed Upland Conifers	Sawtimber Well	1.0	80	81-110	N/A	The data for this sliver of timber was created from memory in the office the next day when it was decided the stand would be divided out.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**166** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 31.6 48 51-80 N/A This stand is an interwoven mixture of upland and lowland pockets. This stand was separated out from the stand to the north for its somewhat smaller diameter and younger red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	54	Pole/Sapling	6	48	Michigan Holly	High	5 - 10 feet	Tall Shrub
Balsam Fir	15	Pole/Log/Sap	6		Balsam Fir	Low	Variable	Sapling
Black Spruce	15	Pole	6		Black Spruce	Low	Variable	Sapling

**167** 6120 - Lowland Cedar Sawtimber Well 1.5 110 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	95	Log	13	110

**168** 4319 - Mixed Upland Forest Sawtimber Medium 1.9 85 51-80 N/A This stand was visited and walked through on a day when time was limited. Therefore, the stand age is an estimate.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log	15		Balsam Fir	Low	Variable	Sapling
Paper Birch	25	Log	12	85	Red Maple	Low	Variable	Sapling
Balsam Fir	25	Pole/Log	8		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Northern White Cedar	10	Log	13					
Black/Red (Hybrid) Oak	10	Pole/Log	8					
White Spruce	15	Log/XLog	16					