



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54088

Entry Year 2020

Acreage: 1,769

County Alpena

Management Area: Alpena Lake Plain

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**Revision Date:** 2018-05-04

**Stand Examiner:** Dale Parris

**Legal Description:**

T30N R07E Sections 2, 3, 11, 14, 15, & 23

**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 88, indicated that the lowland aspen, red pine, and oak 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:**

Soil:

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.

The lower ground flood plain soil adjacent to the Lower South Branch of the Thunder Bay River is typically the Thunder Bay very fine sandy loam soil (poorly drained). The higher ground soil, adjacent to and typically to the east of the Lower South Branch of the Thunder Bay River in Compartment 88, is East Lake sand (somewhat excessively drained). Paralleling this East Lake sand and moving eastward are bands of Croswell sand (moderately well drained), Au Gres sand (somewhat poorly drained), and Deford Muck (very poorly drained).

The soil in the lowland aspen/lowland mixed stands in the southwest region of Compartment 88 is mainly losco loamy sand (somewhat poorly drained). The soil in the lowland aspen stands in the southeast region of Compartment 88 is stated by the soil survey to be dominated by Deford muck. Based on general winter on site observations, Deford muck is likely in the lowest more saturated soil pockets. Around these pockets, where the lowland aspen is growing well, the soil is more likely a somewhat poorly drained sand-loam mix.

For more details on the soils found in Compartment 88 reference the Soil Survey of Alpena County.

Topography:

The topography of Compartment 88 consists of mostly flat ground with very mildly rolling hills in areas.

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

The majority of the eastern boundary of Compartment 88 is adjacent to more State of Michigan owned land. There are some adjacent, year around, residences scattered around Compartment 88, but most of the adjacent grounds are recreational, larger acreage, hunting type properties. The County of Alpena owns a gravel pit adjacent to the southeast corner of Compartment 88.

**Unique Natural Features:**

Compartment 88 has the Lower South Branch of the Thunder Bay River running through it from south to north. Much of the river is surrounded by flood plain forest dominated by red and silver maple. A major portion of the northeastern third of Compartment 88 is comprised of Red Pine stands that were planted in the late 1910's and the 1920's. The southern half of Compartment 88 is characterized by aspen dominate forest. These aspen stands have many pockets of lowland shrub scattered throughout. Oak is mostly present, in Compartment 88, on the east side of the Lower South Branch of the Thunder Bay River. There is a scattering of oak on the west side of the river.

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

The Natural Heritage Database (NHD) showed that there are known archaeological sites within Compartment 88. For

further information contact the State Historic Preservation Office (SHPO).

As part of the NHD the Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website turned up 2 cases of rare animal species that might be present in Compartment 88. The first was fluted shell (*Lasmigona costata*) in Sections 2, 11, 14, and 23 of T30N R07E. The second was red-shouldered hawk (*Buteo lineatus*) in Sections 2 and 3 of T30N R07E.

There is one Special Conservation Area (SCA) located in Compartment 88. This SCA is the flood plain forest that surrounds much of the Lower South Branch of the Thunder Bay River. This flood plain forest is important in that it slows the flow of seasonal flood waters.

### **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.

### **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. There is also a large river corridor which is an excellent pathway for wildlife travel. Habitat components primarily wetland complexes as well as smaller stands of oak 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 as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

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

Sections 2-3, 11, 14-15, & 23, T30N-R7E, Alpena County

An active sand/gravel pit is located in Section 24, just outside the compartment. Potential for sand & gravel development within the compartment may be limited by wetlands and a shallow water table, in general. Active Antrim Shale gas development is occurring less than one mile to the west of the compartment. However, there has been no drilling activity in the compartment and there are no active leases. The Antrim is too thin or absent in this area and production potential is considered low. There is no known metallic mineral potential in this part of the state.

### **Vehicle Access:**

Vehicle access to the portions of Compartment 88 east of the Lower South Branch of the Thunder Bay River is from Indian Reserve Road and forest roads branching from it. There is no legal access to the northwestern most 120 acres of Compartment 88 from land due to the surrounding private land. Access to the rest of Compartment 88 west of the Lower South Branch of the Thunder Bay River is from Dahn Road via Smith Road.

### **Survey Needs:**

There are stands prescribed for harvest in Compartment 88 that could potentially require a survey to find survey corners necessary for constructing timber sale boundaries adjacent to private land. These stands are located in T30N R07E Sections 2, 3, 11, and 14. Further investigation will need to be performed to determine the extend of these survey needs.

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

Snowmobile trail 451 goes through the northern half of Compartment 88. Compartment 88 has opportunities for hunting whitetail deer, ruff grouse, bear, squirrel, coyote, and turkey within season and with the proper license(s).

### **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:**

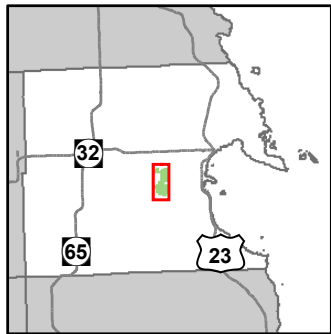
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

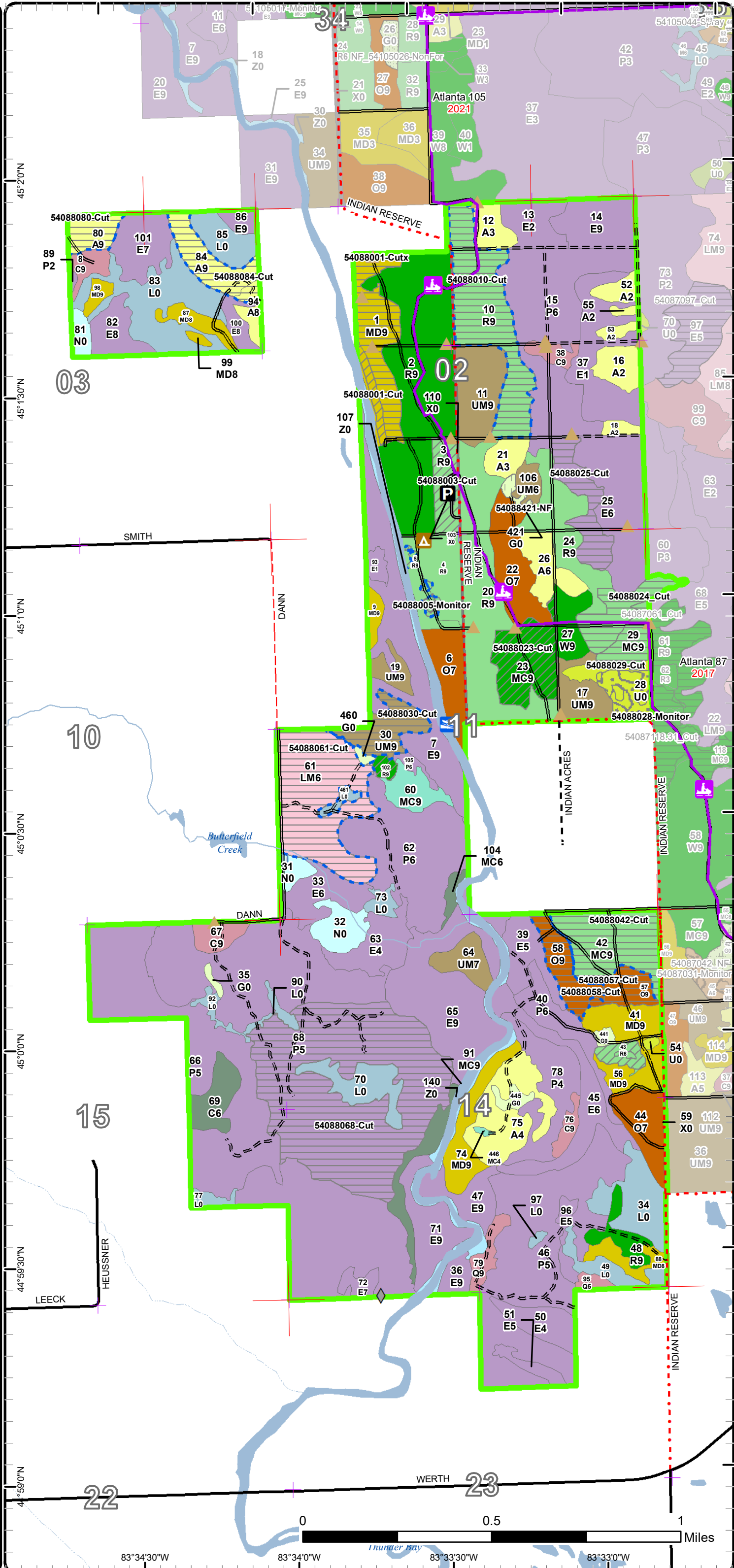
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 88  
 T30N, R07E, Sec. 2, 3, 11, 14, 15, 23  
 County: Alpena  
 Unit: Atlanta  
 Mgmt Area: Alpena Lake Plain  
 YOE: 2020  
 Acres: 1,769 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 10/3/2018  
 Map Phase: Post-Review

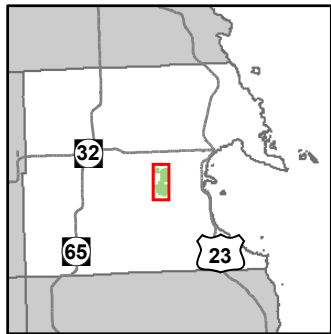


- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- DNR - Secondary Forest Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Berms
- Boating Access Site
- Culvert
- Campground
- Parking Lot
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen Types
- 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
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

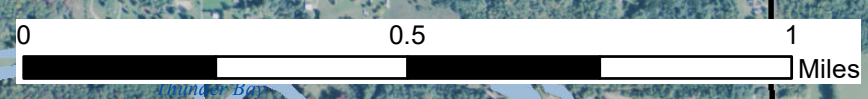
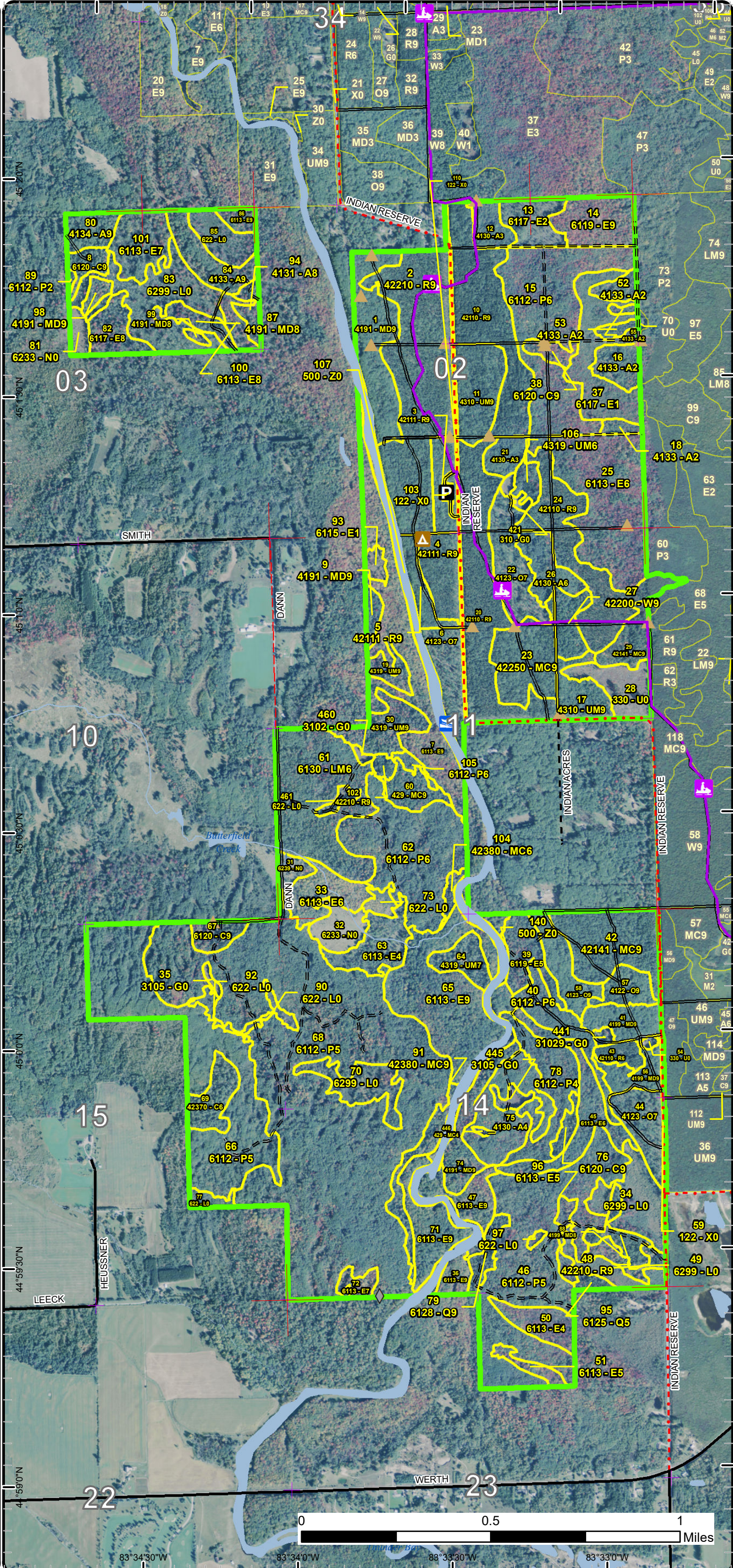


# Stand Boundary Map

Compartment: 88  
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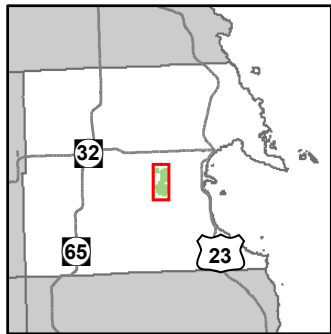
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
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- DNR - Secondary Forest Road
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- Lakes and Rivers All
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- Boating Access Site
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- Compartment Boundary
- Stand Boundaries
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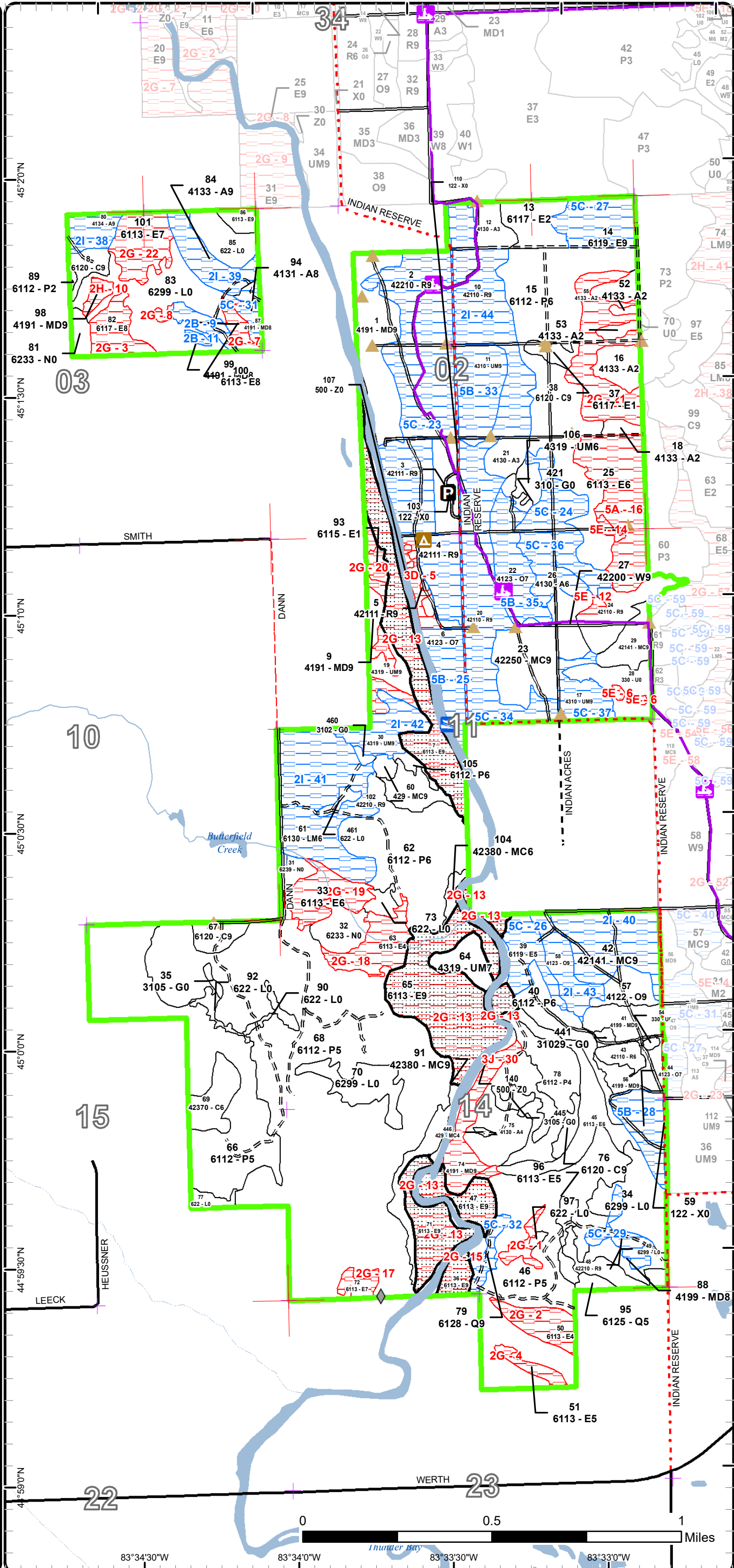
83°34'30"W      83°34'0"W      83°33'30"W      83°33'0"W

# Special Conservation Areas & Site Conditions Map

Compartment: 88  
 T30N, R07E, Sec. 2, 3, 11, 14, 15, 23  
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- Miris Corners
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- DNR - Secondary Forest Road
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- DNR - Secondary Forest Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- ▲ Boating Access Site
- ▲ Culvert
- ▲ Campground
- P Parking Lot
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 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)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	31	23	11	0	0	26	0	0	0	0	0	0	0	0	0	91
Cedar	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	29
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	0	1	74	169	295	0	0	0	0	0	0	0	0	0	0	0	0	538
Lowland Conifers	0	0	0	0	0	0	2	0	0	0	0	5	0	0	0	0	0	0	7
Lowland Deciduous	0	12	0	29	37	0	4	28	58	29	15	135	0	0	0	0	0	0	347
Lowland Mixed Forest	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Shrub	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	0	19	0	0	0	16	17	27	0	0	0	0	0	0	0	79
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
Oak	0	0	0	0	0	0	0	0	0	0	52	14	0	0	0	0	0	0	66
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	28	9	0	0	0	0	0	0	0	37
Red Pine	0	0	0	0	0	0	0	5	0	89	144	0	0	0	0	0	0	0	238
Upland Conifers	0	0	0	0	1	3	0	10	0	8	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	0	0	4	0	13	0	0	30	0	13	0	0	0	0	0	0	60
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
White Pine	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>178</b>	<b>12</b>	<b>1</b>	<b>134</b>	<b>253</b>	<b>357</b>	<b>19</b>	<b>43</b>	<b>100</b>	<b>210</b>	<b>269</b>	<b>196</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1769</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 88

Total Compartment Acres: 1,769

Commercial Harvest - 223  
 Harvests with Site Condition - 164  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	23	0	0	0	0	0	0	0	0	23
Lowland Aspen/Balsam Poplar	114	0	0	0	0	0	0	0	0	114
Lowland Deciduous	15	0	0	0	0	0	0	0	0	15
Lowland Mixed Forest	48	0	0	0	0	0	0	0	0	48
Mixed Upland Deciduous	23	0	0	0	4	0	0	0	0	26
Natural Mixed Pines	0	0	0	0	0	22	0	0	0	22
Oak	20	0	0	0	0	0	0	0	0	20
Planted Mixed Pines	37	0	0	0	0	0	0	0	0	37
Red Pine	54	0	0	0	0	15	0	0	0	69
Upland Mixed Forest	13	0	0	0	0	0	0	0	0	13
<b>Total</b>	<b>346</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>387</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	387	0	0	0	0	0	11	0	2	400
Next Step	0	191	91	0	0	100	446	0	0	827
<b>Total</b>	<b>387</b>	<b>191</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>457</b>	<b>0</b>	<b>2</b>	<b>1227</b>





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
61	54087061_Cut	16.4	42210 - Natural Red Pine	Sawtimber Well	93	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal

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

Prescription Clear-cut with retention. Place retention at the south end of the stand.

Specs:

Add sale specifications to protect Snowmobile Trail 461 and its users.

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a fully stocked stand of red pine with lesser amounts of other native species.

Other

Comment: This was an out of YOE treatment approved at the 2020 YOE Compartment Review to be harvested with the Compartment 88 Treatments to the west.

Proposed Start Date: 10/1 /2016

1	54088001-Cut	3.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	94	141-170	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Crown Thinning. Thin down to 80 BA.

Specs:

Add sale specifications to protect Snowmobile Trail 461 and its users.

Next Step

Treatments:

Acceptable Regen:

Other Comment: Focus on removing trees that are suppressed, of poor health, and of poor form to improve the overall health of this section of forest.

This treatment should span the area from approximately 30 ft. from the water's edge to approximately 130 feet from the water's edge.

On average, there is an obvious break about 30 feet from the water's edge where harvesting is not desirable or feasible.

This harvest should protect the integrity, ecosystem, and aesthetics of the Thunder Bay River shoreline.

Proposed Start Date: 10/1 /2019

1	54088001-Cutx	22.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	94	141-170	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with retention.

Specs:

Locate retention to act as a visual break for the residence to the west.

Protect all sub-merchantable pine regeneration to promote future stand diversity and to act as a visual break for the residence to the west.

Add sale specifications to protect Snowmobile Trail 461 and its users.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a mix, of oak, aspen, red maple, and pine.

Other

Comment: The majority of the white pine regeneration is adjacent to the private land.

Proposed Start Date:

10/1 /2019



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
3	54088003-Cut	9.2	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	85	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Crown Thinning.Specs:

Thin to 80 BA.

Retain mainly red pine crop trees. Retain large crowned mast producing oak where necessary to protect residual trees during harvest and for their wildlife benefitting mast production.

Favor the removal of pine 14 plus inches in DBH.

Remove all scotch pine and retain some healthy red maple so that retention pockets are not required.

Add sale specifications to protect Snowmobile Trail 461 and its users.

Discuss with PRD the usage and signing of the trailhead parking lot during the sale and the related sale specs to be used.

Next StepTreatments:Acceptable This is not a regeneration treatment.Regen:

Other Make sure oak crowns and large crowned pine have a place to land without damaging the residual timber. Consider growing the residual as long as possible due to the recreation parking lot being in center.

Comment:

The surrounding stand to the the north and west benefitted from the same type of harvest. The residual pine in this adjacent stand are experiencing enough growth to make a crown thinning a disirable management option.

Proposed Start Date: 10/1 /2019

5	54088005-Monitor	2.2	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	98	111- 140	Monitoring	Natural Regen (Re-Inventory)	4211 - Planted Red Pine	Even-Aged	Field Boundary
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**Habitat Cut: No****Site Condition: Age-Class or Site Quality**Prescription Monitor for forest health reasonsSpecs:Next StepTreatments:Acceptable .Regen:Other Percent to Treat = 100%Comment:Proposed Start Date: 7 /13/2015

10	54088010-Cut	40.3	42110 - Planted Red Pine	Sawtimber Well	94	171- 200	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**Prescription Clear-cut with reserves. Plant to red pine.Specs:

Add sale specifications to protect Snowmobile Trail 461 and its users.

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

Treatments: Monitoring, Artificial Regen(3yr)

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

Regen:

Other Consider swapping acres to rotate where red pine is grown.

Comment:

Place retention in areas with younger pole to log sized red oak; preferably along the stand edge if we decide to replant red pine.

Proposed Start Date: 10/1 /2019



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
23	54088023-Cut	21.5	42250 - Pine, Oak	Sawtimber Well	93	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Crown Thinning.Specs:

Thin to 80 BA keeping mainly red pine crop trees. Retain large crowned mast producing oak where necessary to protect residual trees during harvest and for their wildlife benefitting mast production.

Favor the removal of pine 14 plus inches in DBH.

Retain some healthy red maple so that retention pockets are not required.

Add sale specifications to protect Snowmobile Trail 461 and its users.

Next StepTreatments:Acceptable This is not a regeneration harvest.Regen:

Make sure oak crowns and large red pine crowns have a place to land without damaging the residual timber.

OtherComment:

Stand 2 to the north and west benefitted from the same type of harvest. The residual pine in this stand are experiencing enough growth to make a crown thinning a desirable management option at this age.

Proposed Start Date: 10/1 /2019

24	54088024_Cut	13.5	42110 - Planted Red Pine	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Clear-cut with retention. Plant to red pine.Specs:

Add sale specifications to protect Snowmobile Trail 461 and its users.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);Treatments: Monitoring, Artificial Regen(3yr)Acceptable Acceptable regeneration is a fully stocked stand of red pine with minor components of other native species.Regen:OtherComment:

The retention is already designated for the lowland portion of red pine to the west.

Some more dense high ground red pine (to the west and south) is included in the retention to protect the low ground retention from windthrow.

Proposed Start Date: 10/1 /2019



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
25	54088025-Cut	15.2	6113 - Lowland Maple	Poletimber Well	73	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Draft Field Boundary

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

Prescription Clear-cut with retention.

Specs:

3-10% retention is already designated at the east edge of the stand.

Protect all oak, pine, and spruce regen where present to promote future stand diversity.

Add sale specifications to protect Snowmobile Trail 461 and its users.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a mix of aspen, red maple, birch, oak, spruce, fir, and pine.

Other

Mark the east edge of the stand to retain mast oak and legacy pine trees.

Comment:

A feasibility walk was done along the eastern edge of this stand in February. During timber sale prep the east boundary should not change much from the shapefile. Do not push the boundary east to encompass the two white pine pockets. Leave these pockets for diversity, wildlife travel corridors, and whitetail bedding areas.

The eastern portion of the stand is lower ground that, judging from the harvest to the north, would convert to lowland shrub for the long term if harvested.

Proposed Start Date: 10/1 /2019

28	54088028-Monitor	8.5	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Perform a year 1 artificial regen survey.

Specs:

Next Step SitePrep, Trenching; ; Pesticide, Skidder/Mechanical; ; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Regen: Acceptable regeneration is any combination of red pine, white pine, oak, jack pine, maple or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine.

Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 4 /1 /2018

29	54088029-Cut	9.0	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

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

Specs:

Add sale specifications to protect Snowmobile Trail 461 and its users.

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is a fully stocked stand of red pine with lesser amounts of other native species.

Other

Red pine recently planted in the vicinity of this stand have experienced a high level of water in the trenches.

Comment:

Proposed Start Date: 10/1 /2019



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
30	54088030-Cut	13.2	4319 - Mixed Upland Forest	Sawtimber Well	58	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

**Habitat Cut: No Site Condition: Survey Needed**Prescription Clear-cut with retention.Specs:

Retain 3-10% of the stand in pocket(s). Place retention around cedar, hemlock, and/or mast producing oak where feasible. Retention should be stand representative.

Harvest only trees with a merchantable stick to help with water uptake during stand regeneration.

Do not cut or damage any hemlock or cedar.

Mark to harvest cedar where necessary to facilitate for the movement equipment during harvest operations.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, balsam fir, paper birch, and spruce.Other Comment:

The roads will require repair and will likely need culverts placed and replaced before harvest.

Monitor this treatment post harvest to see if retaining the submerchantable timber helped with water uptake during stand regeneration.

Proposed Start Date: 10/1 /2019

42	54088042-Cut	28.2	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Survey Needed**Prescription Clear-cut with retention.Specs:

Plant to red pine.

Retain 3-10 % of the stand at its western edge around young vigorous open crowned oak with all stand representative species present.

Next Step Pesticide, Skidder/Mechanical; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);Treatments: Monitoring, Artificial Regen(3yr)Acceptable Regen: Acceptable regeneration is a fully stocked stand of red pine with lesser components of other native species.Other Comment:

Oak wilt is likely present at the east end of this stand but it is yet to be confirmed.

Proposed Start Date: 10/1 /2019

43	54088043-Cut	4.1	42110 - Planted Red Pine	Poletimber Well	66	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition:**Prescription Crown thinning. Remove 1/3 of the stand making sure not thin below 120 BA.Specs:Next StepTreatments:Acceptable Regen: This is not a regeneration harvest.Other Comment:

The northern half of the stand is dense with a consistently high BA and will require a lot of marking.

The southern portion of the stand has random dense pockets that will need marking to open up the crowns even if the inconsistent BA is or will be taken below 120.

Proposed Start Date: 10/1 /2019



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
57	54088057-Cut	7.9	4122 - Oak, Pine	Sawtimber Well	98	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Clear-cut with retention.Specs:

Place retention in the southwest arm of the stand.

Protect all sub-merchantable pine regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of oak, aspen, red maple, and pine.Other Comment:

The 30-40 BA of large crowned oak retained in Stands 41 and 56 to the south added shade that may have encouraged the oak in these stands to flourish.

A clear-cut is less likely to spread oak wilt so that is what was decided on.

Proposed Start Date: 10/1 /2019

58	54088058-Cut	12.1	4123 - Red Oak	Sawtimber Well	98	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**Prescription Clear-cut with retention.Specs:

Place retention in the southwest arm of the stand.

Protect all sub-merchantable pine regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a medium to well stocked mix of oak, aspen, red maple, and pine.Other Comment:

The 30-40 BA of large crowned oak retained in Stands 41 and 56 to the south added shade that may have encouraged the oak in these stands to flourish.

A clear-cut is less likely to spread oak wilt so that is what was decided on.

Proposed Start Date: 10/1 /2019



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
61	54088061-Cut	47.7	6130 - Fir, Aspen, Maple	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Clear-cut with retention.

Specs:

Retain 3-10% of the stand in pocket(s). Place retention around cedar and hemlock where feasible. Retention should be stand representative.

Harvest only trees with a merchantable stick to help with water uptake during stand regeneration.

Do not cut or damage any hemlock or cedar.

Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is medium to well stocked stand of aspen, balsam fir, red maple, and paper birch.

Other Comment: The roads will require repair and will likely need culverts placed and replaced before harvest.

Monitor this treatment post harvest to see if retaining the submerchantable timber helped with water uptake during stand regeneration.

Favor placing retention around low ground pockets where harvesting would be difficult. See the 1998 DOQQ imagery for assistance in locating these low spots.

Proposed Start Date: 10/1 /2019

68	54088068-Cut	114.0	6112 - Lowland Aspen	Poletimber Medium	42	1-50	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Clear-cut with retention.

Specs:

Retain 3-10% of the stand in pocket(s). Place retention around cedar and low areas where feasible. Retention should be stand representative.

Harvest only trees with a merchantable stick to help with water uptake during stand regeneration.

Do not cut or damage any cedar or pine where present for the promotion of stand diversity.

Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, red maple, paper birch, and balsam fir.

Other Comment: The roads will require repair and will likely need culverts placed and replaced before harvest.

Monitor this treatment to see if retaining the submerchantable timber helps with water uptake during stand regeneration.

Favor placing retention around low ground pockets where harvesting would be difficult. See the 1998 DOQQ imagery for assistance in locating these low spots.

Proposed Start Date: 10/1 /2019



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
80	54088080-Cut	7.9	4134 - Aspen, Spruce/Fir	Sawtimber Well	77	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition: Survey Needed**Prescription Clear-cut.Specs:

Do not cut any pine or cedar.

Protect pine, spruce, and oak regeneration that may be present to promote future stand diversity.

Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a well stocked stand of aspen, red maple, balsam fir, paper birch, and pine.Other Comment:

Bill Peterson, the private land owner to the north and west is willing to grant access for harvest.

Proposed Start Date: 10/1 /2019

84	54088084-Cut	14.8	4133 - Aspen, Mixed Pine	Sawtimber Well	77	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**Prescription Clear-cut with retention. Retain 3-10% of the stand in pockets. Focus the retention pockets around the pine at the north and south ends of the stand while keeping the retention representative of the stand overall. Include oak in these retention pockets, where possible, for wildlife mast production. Include the "Dead and Down Creation, Grouse" log Specification 5.2.4.4 in the sale contract.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a mix of aspen, pine, red maple, and balsam fir.Other Comment:

When putting in the sale boundary, where feasible/if present, mark oak out of the stand with trees between the oak and the stand boundary to promote future mast production for wildlife and to protect the oak from damage that could potentially spread oak wilt. Bill Peterson, the private land owner to the north and west, is willing to grant access for harvest.

Proposed Start Date: 10/1 /2019

102	54088102-Cut	2.1	42210 - Natural Red Pine	Sawtimber Well	84	201+	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Crown Thinning.Specs:

Crown thin the red pine (and white pine) by removing 1/3 of the stand. Do not thin below 120 BA.

Harvest all red maple, paper birch, and aspen.

Next StepTreatments:Acceptable Regen: This is not a regeneration harvest.Other Comment:

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

Proposed Start Date: 10/1 /2019





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
421	54088421-NF	2.1	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

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

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2009

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**Total Treatment  
Acreage Proposed: 416.1**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 88  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
90	54	37	0

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions										
						2B	2I	5B	5C	2G	2H	3D	3J	5A	5E	
90	54	37	0		Aspen		23		14							
29	29	0	0		Cedar											
8	8	0	0		Herbaceous Openland											
14	13	0	1		Low-Density Trees											1
539	461	0	78		Lowland Aspen/Balsam Poplar					78						
8	2	5	0		Lowland Conifers				5							
347	54	29	264		Lowland Deciduous				29	231					32	1
48	0	48	0		Lowland Mixed Forest		48									
95	95	0	0		Lowland Shrub											
17	17	0	0		Marsh											
79	56	6	17		Mixed Upland Deciduous	6				1	3			14		
21	21	0	0		Natural Mixed Pines											
65	8	57	0		Oak		12	45								
37	9	28	0		Planted Mixed Pines		28									
237	32	199	7		Red Pine		40		158			5				1
21	21	0	0		Upland Conifers											
60	17	43	0		Upland Mixed Forest		13	19	11							
8	8	0	0		Urban											
35	35	0	0		Water											
9	9	0	0		White Pine											
1,769	950	452	367		Total Forested Acres	6	164	64	218	310	3	5	14	32	3	
	54%	26%	21%		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)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
This area was harvested in 1980 with the surrounding area, but this area will likely be unharvestable during the next entry.							

## Report 4 – Site Conditions

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2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	10	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for Timber Sale Number: 54-023-10-01; Sale Name: Camp Thunder Pine							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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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>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is to be the long term retention for the red pine harvest to the east.							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	122	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.							

## Report 4 – Site Conditions

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14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is designated long term retention for the harvest of the timber to the west.							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	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.							
16	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Due to high soil moisture levels this stand is not likely to regenerate. Stand 37 to the north is similar and when harvested converted mostly to lowland shrub with moisture stunted trees.							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	84	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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Dale Parris : Examiner

Compartment: 88  
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26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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Compartment: 88  
Year of Entry: 2020

32	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Age class and covertime diversity							
33	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<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>							
37	<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>							



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 88  
Year of Entry: 2020

38	Available	2I: Survey needed	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	Available	2I: Survey needed	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	Available	2I: Survey needed	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	Available	2I: Survey needed	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	Available	2I: Survey needed	40	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

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Mgt. Unit

Compartment:

Year of Entry



### 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	27.2	94	141-170	2017 BA Measurements (140, 130, 160,180,100,160). Oak and red pine vary in canopy dominance. Trace white oak is present. (OPIC - FMD: OI Stand Year Origin was 1924) Oak wilt detected in this in 2014. See OFS point. --RGB Oak wilt site was plowed and trees removed in 2015.
2	42210 - Natural Red Pine	Sawtimber Well	70.2	85	81-110	This stand was thinned in the fall of 2011. Timber Sale Name: Camp Thunder Pine; Timber Sale No.: 54-23-10-01. The residual BA was 88. 2017 BA measurements (80, 90, 100,,100). Oak density in the canopy varies throughout. This stand was planted to 1,200 to 1,500 red pine and jack pine per acre in 1921-1922. This would put the red pine age at 95, but an average sized red pine cored and aged at 84 years. Over the last 6 years since the thinning the red pine have put on 1/2" to 3/4" in DBH.
3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	9.2	85	111-140	A higher percentage of the red pine in the southern 1/3 of the stand is in the 8-10 inch DBH range. 2017 Inventory BA Measurements (170, 90, 130, 150, 80 , 110, 110, 110, 130, 140) This stand was planted to 1,200 red pine and jack pine per acre in 1922. This would put the red pine age at 95, but an average sized red pine cored and aged at 85 years.(OPIC - FMD:Leaving for Visual this entry, cut & regenerate in ten years.)
4	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	13.4	98	81-110	This stand was thinned in the fall of 2011. Timber Sale Name: Camp Thunder Pine; Timber Sale No.: 54-23-10-01. The residual BA was 103.Oak wilt detected in this in 2014. See OFS point. --RGBPlanting records show that this stand was planted to red pine and jack pine (at a ratio of 3 RP:2 JP) at a density of 1750 trees per acre in 1920. 2017 BA Measurements (120,100, 100, 110, 110). The red pine have about 25% live crown.
5	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	7.9	98	111-140	Planting records show that this stand was planted to red pine and jack pine (at a ratio of 3 RP:2 JP) at a density of 1750 trees per acre in 1920.  OPIC - FMD: Thunder Bay River Campground  Oak wilt detected in this in 2014. See OFS points. --RGB  Possible oak wilt located: (45.016608, -83.556591), (45.018522, -83.559447), (45.019474, -83.556444), (45.015467, -83.558003); 2017 BA Measurements (100, 140, 190, 110, 150); A 13" DBH red pine core aged at 92 years.
6	4123 - Red Oak	Sawtimber Poor	13.5	100	1-50	This stand was (shelterwood) harvested in 2013. An average of 30-40 BA of oak and pine was retained. White pine, oak, and red pine advanced regen of various ages was well protected during the harvest. Due to the wide range of advanced regent ages it would not be safe to call this a two aged stand. 2017 BA Measurements (50, 50, 30, 40) . The oak are medium to poor quality.
7	6113 - Lowland Maple	Sawtimber Well	43.8	103	81-110	The green ash which make up about 10% of the canny are dead. (OPIC - FMD: Flood Plain along River, Standing Water 1-3ft deep in January of 2008. 91=Green Ash)
8	6120 - Lowland Cedar	Sawtimber Well	5.0	109	141-170	A 9" DBH cedar cored at approximately 99 + 10 = 109 years. The last 35 years were difficult to count due to the very slow growth.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.4	83	81-110	
10	42110 - Planted Red Pine	Sawtimber Well	40.3	94	171-200	This stand was planted in 1924 with 800-1,000 white pine per acre and 1,200 red pine per acre. Since then multiple (probably 1-2 based on records) species removals have occurred in many of the planted red pine stands in Compartment 88. Original planting densities vary somewhat between quarter-quarters. The southern most quarter-quarter of the stand was planted to 1200 red pine and jack pine per acre at a 1:1 ratio in 1924. Inventory 2017 BA Measurements (180, 190, 220, 230, 160, 160, 140, 130,, 120). The red pine is most dense and the oak are smaller in diameter in the central third of the stand.  (OPIC - FMD: Hold ten years and regenerate.)
11	4310 - Pine, Oak Mix	Sawtimber Well	18.7	89	51-80	Check the records to see if this stand was planted. Inventory 2017 BA Measurements (70, 90, 90, 90, 110). A 4" DBH oak cored at 44 years of age. A 7.5" DBH bigtooth aspen cored at 58 years of age. A 16" DBH red pine cored at 88 years of age. (OPIC - FMD: Hold and allow young hdwd stems to mature.)
12	4130 - Aspen	Sapling Well	7.1	26	1-50	This stand has a nice diverse mix of tree species. This stand was harvested in the vicinity of 1992 as part of Timber Sale Name: Red Fox Pine Thinning; Timber Sale No.: 540469001.(OPIC - FMD: OI Stand Year Origin was 1992)
13	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	11.6	6	1-50	This stand was harvested in the winter of 2012. All red pine, white pine, oak, and cedar was retained. The retention of these trees was a good idea due to the wetness of the stand and the spacing of the residual trees. White pine regen was well protected during the harvest. Log sized cedar, white pine, oak, and red pine each make up approximately 25% of the residual trees present after the 2012 harvest.
14	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	16.8	86	81-110	A 12" DBH red maple cored at 82+3=85, verifying the OI age. This stand is close to 50:50 upland and lowland. There are pockets of cedar throughout. (OPIC - FMD: OI Stand Year Origin was 1932)
15	6112 - Lowland Aspen	Poletimber Well	55.8	38	51-80	This stand has the occasional legacy white pine/red pine that should be protected in subsequent harvests. (OPIC - FMD: OI Stand Year Origin was 1970)
16	4133 - Aspen, Mixed Pine	Sapling Medium	7.8	25	Immature	This stand was harvested in 1993 as part of Timber Sale Name: Bear Track Block; Timber Sale No.: 540479001. All cedar was retained.  (OPIC - FMD: Low ground, spotty regen.)
17	4310 - Pine, Oak Mix	Sawtimber Well	11.2	89	81-110	The western edge of the stand is more dominate to oak but still has significant small log sized white pine density in the canopy. The stand has small pockets of pole sized aspen and oak throughout.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4133 - Aspen, Mixed Pine	Sapling Medium	2.4	25	Immature	This stand was harvested in 1993 as part of Timber Sale Name: Bear Track Block; Timber Sale No.: 540479001. All cedar was retained.  (OPIC - FMD: Low ground, spotty regen.)
19	4319 - Mixed Upland Forest	Sawtimber Well	4.9	103	81-110	The age of the red maple is based on the adjacent stand to the east. Forrest succession has led to varying ages in this stand. This stand is a diversity pocket. The canopy species vary greatly in this stand. This stand is a group of inclusion pockets.
20	42110 - Planted Red Pine	Sawtimber Well	46.9	96	111-140	This stand was thinned in the fall of 2011. Timber Sale Name: Camp Thunder Pine; Timber Sale No.: 54-23-10-01. The residual BA was 101. This stand was planted from 1917 to 1927 to varying densities (1200-2200 trees per acre according to records) of red pine, white pine, and jack pine in varying species compositions. Some of the earlier planted acres were burned and replanted in 1924. 2017 BA Measurements (120, 110, 120, 110, 120, 110, 120). The red pine tend to have around 20-25% live crown.
21	4130 - Aspen	Sapling Well	6.2	26	1-50	This stand was harvested in the vicinity of 1992 as part of Timber Sale Name: Red Fox Pine Thinning; Timber Sale No.: 540469001.(OPIC - FMD: OI Stand Year Origin was 1992)
22	4123 - Red Oak	Sawtimber Poor	18.5	94	1-50	This stand was shelterwood harvested in 2013. An average of 30-40 BA of oak and pine was retained. White pine regen was well protected during the harvest. The retained overstory oak very largely in size and age throughout the stand. The understory is approximately 65% BT, 28% RO, 5%RM, 1% WP, 1% RP
23	42250 - Pine, Oak	Sawtimber Well	21.5	93	141-170	This stand was planted in 1917 at 1750 red pine and jack pine per acre. 2017 BA Measurements (130, 140, 140, 190, 190, 130). The oak is of poor quality. There is a substantial amount of pole sized red pine making this a candidate for a thinning. The red pine vary in percent canopy from 15 to 20%. The monitoring treatment that was on this stand indicates that it was thinned within the last 10 years but there is no sign of it on the ground. A 11.5" DBH red pine cored at 92 years.
24	42110 - Planted Red Pine	Sawtimber Well	35.3	91	81-110	This stand was thinned in the fall of 2011. Timber Sale Name: Camp Thunder Pine; Timber Sale No.: 54-23-10-01. The residual BA was 103. The planting records inaccurately show that much of this stand was planted to jack pine and white pine with no record of red pine planting, This was more than likely planted red pine as is most of the red pine (if not all) stands in this area. 2017 Inventory BA Measurements (100, 90, 100, 110, 120). The percent canopy varies from 15 to 35.
25	6113 - Lowland Maple	Poletimber Well	48.1	73	51-80	There are various types of shrubs throughout. There are a couple slightly higher ground white pine pockets in the stand. There is standing water in areas of the stand particularly to the north of the dividing trail where standing water is more prevalent. Oak is more common in the southern half of the stand. The understory of the stand is thick with shrubs throughout.  (OPIC - FMD: Holding to prevent raising water table in surrounding stands. Cut in 20-30 yrs.)



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4130 - Aspen	Poletimber Well	10.9	48	1-50	There are some large red pine in the center of the stand that should be retained during the next harvest. This stand has a nice diverse mix of other tree species to complement the aspen.  (OPIC - FMD: OI Stand Year Origin was 1970)
27	42200 - Natural White Pine	Sawtimber Well	8.7	89	111-140	2017 Inventory BA Measurements (130, 140). Red pine is higher in density in the NE corner of the stand. OPIC - FMD: Stand is mix of White Logs and Poles with some RP mixed in. Holding ten years and then shelterwood with surrounding stands.
29	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	9.0	92	81-110	The planting records inaccurately show that much of this stand was planted to jack pine and white pine with no record of red pine planting. This was more than likely planted red pine as is most of the red pine (if not all) stands in this area. The red pine in this stand tend to have large crowns due to being open grown.  OPIC - FMD: Stand is a mix of overstory with a heavy understory of Red Maple/Aspen. Hold ten years and then shelterwood with surrounding stands.
30	4319 - Mixed Upland Forest	Sawtimber Well	13.2	58	51-80	The oak, pine, and hemlock are in the southern third of the stand.
33	6113 - Lowland Maple	Poletimber Well	13.6	64	1-50	If the pole and sapling sized ash were still alive they would comprise approximately 30% of the canopy. Tall grass covers the wet forest floor. This stand is too wet to harvest.
36	6113 - Lowland Maple	Sawtimber Well	4.9	103	81-110	OPIC - FMD: Flood Plain along River, Standing Water 1-3ft deep in January of 2008. 91=Green Ash
37	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	25.9	20	Immature	A 2 inch DBH paper birch aged at 17+2=19. This is borderline lowland shrub. This stand is too wet to harvest.
38	6120 - Lowland Cedar	Sawtimber Well	3.8	106	171-200	A 9.5 inch DBH cedar cored at 95 + 10 = 105 years of age.
39	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	12.1	83	51-80	A run-off runs the length of the east edge of the stand. The rings on the red maple were difficult to see and count, therefore the age from the previous inventory, which seemed reasonable, was used. (OPIC - FMD: Low ground, mix of overstory.)
40	6112 - Lowland Aspen	Poletimber Well	13.5	38	1-50	Timber sale records show that almost all of the east 1/2 of section 14 (except NENE), including this stand was clear-cut in 1980.(OPIC - FMD: OI Stand Year Origin was 1971) White pine and white spruce were retained.
41	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.7	37	51-80	It can be inferred from the stand structure and aging of trees that this stand was partially harvested 36 years ago. During this partial harvest mostly mature oak were retained along with scattered white pine. Log sized oak make up about 40% of the canopy. The are log size oak in this stand, but in order to put two oak entries into the canopy data I had to leave the log designation out. Tree is an average of 30-50 BA of oak that were not harvested 36 years ago.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	28.2	88	81-110	<p>2017 Inventory BA Measurements (70, 140, 140, 60, 60, 60). This stand was thinned in 2002. Timber Sale Name: Reverse Logic; Timber Sale No.: 540280101 (OPIC - FMD: Stand thinned in 2002, hold until next entry and final harvest allow residual stems to put on diameter.)</p> <p>This stand was planted to red, white, and jack pine at 1,100 trees/acre in 1930. There is a possibility of oak wilt in this stand.</p>
43	42110 - Planted Red Pine	Poletimber Well	4.6	66	171-200	<p>2017 Inventory BA Measurements (210, 230, 150, 120, 140, 220). The BA measurements were not taken in the open pockets. This stand was third row thinned in 2002. Timber Sale Name: Reverse Logic; Timber Sale No.: 540280101 (OPIC - FMD: Stand was 3rd row thinned in 2002 "54-018-01") This stand was planted at 680 (2-0 stock) red pine per acre by the boy scouts in 1952. Oak regent is dense in the open pockets of the stand.</p>
44	4123 - Red Oak	Sawtimber Poor	13.3	98	1-50	<p>This stand was (shelterwood) harvested in 2013. An average of 30-40 BA of oak and pine was retained. White pine regen was well protected during the harvest.</p> <p>This stand was planted to red pine and jack pine at 1,750 trees per acre in 1918. A majority of the red pine remaining in the stand are likely 99 years of age.</p>
45	6113 - Lowland Maple	Poletimber Well	19.3	38	51-80	<p>This stand is connects to portions of a maple flat and is part of the flood plain. This portion of the flood plain was harvested with the adjacent stands to the east and west in 1980. Most of the timber is clumps of pole to sapling sized red maple stump sprout clumps with the occasional log sized red maple in a clump. Dead black ash pole and sapling sized trees are scattered throughout.</p>
46	6112 - Lowland Aspen	Poletimber Medium	78.5	38	1-50	<p>Timber sale records show that almost all of the east 1/2 of section 14 (except NENE), including this stand was clear-cut in 1980.(OPIC - FMD: some low areas mixed in, low ground spot had high percentage of Red Maple. Poor access into south part of stand.)</p>
47	6113 - Lowland Maple	Sawtimber Well	11.2	103	81-110	<p>This is within the flood plain of the river. In the winter of 2017 this stand was covered with water. The ash within the stand have died as a result of EAB infestation.(OPIC - FMD: Flood Plain along River, Standing Water 1-3ft deep in January of 2008. 91=Green Ash)</p>
48	42210 - Natural Red Pine	Sawtimber Well	7.3	87	111-140	<p>Dec. 2017 BA Measurements (170). The card catalog shows no record of pine planting in this quarter-quarter.</p> <p>(OPIC - FMD: Stand was treated last entry. County ditched road and never replaced culvert.)</p>
50	6113 - Lowland Maple	Poletimber Poor	10.0	38	1-50	<p>Timber sale records show that this quarter-quarter (NWNE section 23) along with almost all of the east 1/2 of section 14 (except NENE) was clear-cut in 1980. This is a wet area of the harvest that is now lowland maple and should be considered its own stand. Dead black ash make up approximately 20% of the canopy.</p>





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	6113 - Lowland Maple	Poletimber Medium	3.9	38	1-50	Timber sale records show that this quarter-quarter (NWNE section 23) along with almost all of the east 1/2 of section 14 (except NENE) was clear-cut in 1980. This is a wet area of the harvest that is now lowland maple and should be considered its own stand. Dead black ash make up approximately 10% of the canopy.
52	4133 - Aspen, Mixed Pine	Sapling Medium	4.3	25	Immature	This stand was harvested in 1993 as part of Timber Sale Name: Bear Track Block; Timber Sale No.: 540479001. All cedar was retained.(OPIC - FMD: Low ground, spotty regen.)
53	4133 - Aspen, Mixed Pine	Sapling Medium	2.2	25	Immature	This stand was harvested in 1993 as part of Timber Sale Name: Bear Track Block; Timber Sale No.: 540479001. All cedar was retained.  (OPIC - FMD: Low ground, spotty regen.)
55	4133 - Aspen, Mixed Pine	Sapling Medium	1.0	25	Immature	This stand was harvested in 1993 as part of Timber Sale Name: Bear Track Block; Timber Sale No.: 540479001. All cedar was retained.  (OPIC - FMD: Low ground, spotty regen.)
56	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.3	37	51-80	It can be inferred from the stand structure and aging of trees that this stand was partially harvested 36 years ago. During this partial harvest mostly mature oak were retained along with scattered white pine. Log sized oak make up about 40% of the canopy. The are log size oak in this stand, but in order to put two oak entries into the canopy data I had to leave the log designation out.
57	4122 - Oak, Pine	Sawtimber Well	7.9	98	81-110	The oak are medium to low quality. 2017 Inventory BA Measurements (100, 100, 120, 100)
58	4123 - Red Oak	Sawtimber Well	12.1	98	81-110	The oak are medium to low quality. They are growing very slowly; putting on less than 1/2" of diameter every 10 years. 2017 Inventory BA Measurements (140, 110, 110, 120, 100)
60	429 - Mixed Upland Conifers	Sawtimber Well	8.4	84	51-80	The oak is concentrated to the north, the pine is concentrated to the west, and the cedar is concentrated to the east.
61	6130 - Fir, Aspen, Maple	Poletimber Well	47.7	46	81-110	The scattered black ash in the canopy is dead; about 3% of canopy. The density of the cedar varies but tends to be heaviest at the west end of the stand. The trace amount of log sized oak are not doing well, which is likely due to unsuitable soil.
62	6112 - Lowland Aspen	Poletimber Well	48.2	47	1-50	There are pockets of low ground that hold water seasonally that contain shrubs and grass. This stand is similar to Stand 61 but with less conifer and more low wet pockets. Harvest this stand in the 2030 YOE or 2040 YOE. Harvest separately form stands 61 and 30 to the north.
63	6113 - Lowland Maple	Poletimber Poor	14.4	64	1-50	Dead pole sized black ash would have made up 30% of the canny. This stand is too wet to harvest. Tall grass covers the entire forest floor. (OPIC - FMD: some scattered red maple and ash.)



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	4319 - Mixed Upland Forest	Sawtimber Poor	8.4	105	1-50	Most of the canopy has fallen. The understory is dominated by balsam fir that will eventually take over the canopy. The dominate tree species in the canopy varies between aspen, spruce, and red maple. (OPIC - FMD: Ground is slightly higher than surrounding stand supporting more conifers in underscore)
65	6113 - Lowland Maple	Sawtimber Well	50.5	103	81-110	This is a typical flood plain maple flat with very little diversity in the overstory and no understory to speak of. A 16" DBH red maple aged at 103 years. Green ash make up about 10% of the canopy but they are all dead due to EAB. When the inventory for this stand was completed about 1 to 3 feet of water, frozen over, was covering the maple flat.
66	6112 - Lowland Aspen	Poletimber Medium	74.3	25	1-50	This stand was harvested from 1990-1993 as part of Timber Sale Name: Smith Leeck 15; Timber Sale No.: 540099001. (OPIC - FMD: pockets of low ground and tagalder.)
67	6120 - Lowland Cedar	Sawtimber Well	6.1	107	171-200	There is a 0.3 acre water hole with lowland shrub around it in the center of the stand.
68	6112 - Lowland Aspen	Poletimber Medium	245.3	42	1-50	Many lowland shrub pockets are present throughout the stand. This stand is almost an even mix of upland and lowland. A 2 acre inclusion pocket of log sized aspen, pole/ log sized red maple, and pole/ sap balsam fir is in the SE corner and should be treated with this stand during the next harvest. Got ages of 48 and 42 (twice).
69	42370 - Upland Cedar, Aspen	Poletimber Well	10.5	107	141-170	OPIC - FMD: Wind throw along edges.
71	6113 - Lowland Maple	Sawtimber Well	16.0	103	81-110	This is a typical river flood plain forest with minimal understory and a canopy dominated by red maple. Dead green ash is at about 10% in the overstory (killed by EAB.) (OPIC - FMD: Flood Plain along River, Standing Water 1-3ft deep in January of 2008. 91=Green Ash)
72	6113 - Lowland Maple	Sawtimber Poor	3.8	54	1-50	OPIC - FMD: Scattered Timber.
74	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.6	83	51-80	There is a lowland inclusion pocket in the central area of the stand.
75	4130 - Aspen	Poletimber Poor	22.6	38	1-50	Timber sale records show that almost all of the east 1/2 of section 14 (except NENE), including this stand was clear-cut in 1980.  (OPIC - FMD: some low areas mixed in, low ground spot had high percentage of Red Maple. Poor access into south part of stand.)
76	6120 - Lowland Cedar	Sawtimber Well	3.5	107	111-140	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	6112 - Lowland Aspen	Poletimber Poor	21.1	38	1-50	Timber sale records show that almost all of the east 1/2 of section 14 (except NENE), including this stand was clear-cut in 1980.  (OPIC - FMD: some low areas mixed in, low ground spot had high percentage of Red Maple. Poor access into south part of stand.)
79	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.4	107	141-170	
80	4134 - Aspen, Spruce/Fir	Sawtimber Well	7.9	77	81-110	This is some of the higher ground in the area. The aspen are ready for harvest. Cedar is present and tends to be in pockets.
82	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	10.4	77	51-80	Trace pole and log sized hybrid/black oak are present. From the looks of the oak this stand does not have soil oak prefer. This stand is ready for harvest but access is such that a harvest will not be possible. Access to this stand is blocked by private property and surrounding lowland stands. This stand has areas that are too wet to harvest and pockets of lowland shrub.
84	4133 - Aspen, Mixed Pine	Sawtimber Well	13.1	77	111-140	This stand has pockets dominated by red pine and white pine at the north and south ends. Aspen dominates the canopy in the central region of the stand. The east 3 acres of the stand is a lowland inclusion pocket of balsam fir, red maple, spruce, and aspen.
86	6113 - Lowland Maple	Sawtimber Well	3.5	103	81-110	OPIC - FMD: Flood Plain along River, Standing Water 1-3ft deep in January of 2008. 91=Green Ash
87	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	5.9	79	81-110	This stand is ready for harvest. Access would be needed from the private property owner to the south. The western most area of this stand is too wet to harvest.
88	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	6.1	75	1-50	This stand aces for a nice wildlife travel corridor.
89	6112 - Lowland Aspen	Sapling Medium	0.6	18	1-50	The west compartment line could be off making this stand smaller than it already is.
91	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	9.9	60	141-170	This stand is an area along the Lower South Branch of the Thunder Bay River that was not harvested with the stand to the west. The age of the trees in this stand due to windthrow events and forest succession.
93	6115 - Lowland Ash	Sapling Poor	2.7	26	1-50	This stand is within the river floodplain. The ash saplings are dense. Most of the ash are dead. When the ash are dead this will be a non-forested low intensity tree stand.
94	4131 - Aspen, Oak	Sawtimber Medium	4.6	77	51-80	This stand has two pockets of higher ground oak at the north and south ends of the stand with low ground red maple dominating the central region.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
95	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	2.3	57	51-80	The north half is bog the south half is slightly higher ground. There are some really nice fast growing black spruce in this stand.
96	6113 - Lowland Maple	Poletimber Medium	4.2	38	1-50	The understory of this stand is almost completely covered by various types of shrubs. The northern portion of this stand was harvested in 1980 with the surrounding area. The southern acre of this stand is an inclusion pocket of log sized red maple.
98	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.7	76	81-110	Many foot trails have been cleared through this stand. This is some of the higher ground in the area. Access to this stand is blocked by private property and surrounding lowland stands.
99	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	1.0	77	51-80	This small stand is ready for harvest but is likely inaccessible due to the surrounding low ground and lack of good access through private property. There is an outside chance that this stand could be harvested if crane mats were used to connect this stand to stand 87 to the east. If harvested, action should be taken to protect some of the oak from harvest operations while minimizing the chances of spreading oak wilt. A truck trail is present in Stand 87 that runs in from the private property to the south.
100	6113 - Lowland Maple	Sawtimber Medium	4.8	105	51-80	An 18" DBH red maple cored at 111 years but was difficult to count. A 14" DBH red maple cored at 99 years but was difficult to count. The age of these red maple is likely consistent with the age of the red maple in other areas of the nearby Thunder Bay River flood plain. As such, 105 years of age was used.
101	6113 - Lowland Maple	Sawtimber Poor	15.0	99	51-80	
102	42210 - Natural Red Pine	Sawtimber Well	2.1	84	201+	2018 BA Measurements (230, 210). This is a natural red pine pocket. The red pine are 9 to 10 stick trees.
104	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	2.5	47	81-110	The cedar, oak, red maple, and aspen are much older than the balsam fir that is most dominant in the canopy. This area went unharvested when the stand to the northwest was last harvested. As the dominant canopy trees fall out of the canopy, the shade tolerant balsam fir are taking over in the canopy.
105	6112 - Lowland Aspen	Poletimber Well	2.0	47	51-80	
106	4319 - Mixed Upland Forest	Poletimber Well	4.1	38	1-50	The areas of pole sized pine in this stand were the result of soil scarification. There is a patch of log sized jack pine to the north. There is a patch of pole sized jack pine to the west. There is a patch of pole sized red pine to the south central. There is aspen in the two fingers to the south. Red oak is scattered throughout. The red maple is mostly in the central region of the stand.
446	429 - Mixed Upland Conifers	Poletimber Poor	0.5	38	1-50	This partially grown over wildlife opening was likely created by the DNR along with other openings in the area in 1984.



Stand	Cover Type	Acres	Managed Site	General Comments:
28	330 - Low-Density Trees	13.1		As of 12/13/17 during the 2020 YOE inventory there was only trace amounts of woody competition present (any competition present was dead). The trenches of this planting held water for much of the 2017 summer but few red pine died. FTP C54-972 Rx burn for the removal of woody competition. Burned: 7/23/2015  FTP C54-973 Variance approved for the trenching and planting of red pine. Trenched: 12/6/2016 Planted on 4/27/17 at 958 RP/ac
31	6239 - Mixed Emergent Wetland	4.0	No	The western quarter of this stand is cattails with scattered aspen and red maple. Dead black ash are scattered throughout. Marsh is a good description of this area.
32	6233 - Wet Meadow	9.4	No	This is a marsh.
34	6299 - Lowland Shrub (OI)	18.0	No	This stand was not part of the surrounding timber sale harvest that took place in 1980.
35	3105 - Mixed Upland Herbaceous	1.1	No	This wildlife opening was originally created by the DNR in 1984 to be 5 acres.(OPIC - FMD: Some trees & brush.)
49	6299 - Lowland Shrub (OI)	7.9	No	This stand was not part of the surrounding timber sale harvest that took place in 1980. For all intensive management purposes this is lowland shrub, but there are various sapling, pole, and log sized trees along the edges and scattered throughout.
54	330 - Low-Density Trees	0.8	No	
59	122 - Road/Parking Lot	2.4	No	Indian Reserve Road
70	6299 - Lowland Shrub (OI)	13.2	No	OPIC - FMD: Scattered Timber.
73	622 - Lowland Shrub	3.1	No	The southeast corner of this stand is a grass inclusion pocket.
77	622 - Lowland Shrub	2.8	No	This stand is mostly tag alder with some shrub willow. Aspen, paper birch, and balsam fir are scattered and in small pockets. This stand did not regenerate when harvested due to high soil moisture.
81	6233 - Wet Meadow	3.8	No	This stand is more of a marsh with tall grass throughout. Scattered pole sized black ash present are dead. Few scattered log sized red maple are present.
83	6299 - Lowland Shrub (OI)	32.2	No	This stand is dense tag alder with scattered clumps of log sized red maple, scattered balsam fir saplings, and scattered pole and log sized aspen/birch. Some small pockets have 25% canopy but are still dominated by lowland shrub.(OPIC - FMD: Scattered Timber but non merchantable due to poor form and wet soil conditions.)
85	622 - Lowland Shrub	10.2	No	This stand is dominated by lowland shrub with red maple scattered throughout.



Stand	Cover Type	Acres	Managed Site	General Comments:
90	622 - Lowland Shrub	2.7	No	This stand would have been forested but the green ash and black ash that make up most of the canopy is dead. Their are scattered log to pole sized maple clumps. The ash seedlings in the understory will likely die soon due to EAB. The best callout for this stand is lowland shrub because that is where it is headed and emergent wetland does not fit.
92	622 - Lowland Shrub	2.5	No	
97	622 - Lowland Shrub	0.8	No	
103	122 - Road/Parking Lot	1.2	No	OPIC - FMD: Snowmobile Parking Lot
107	500 - Water	14.6	No	OPIC - FMD: Lower South Branch Thunderbay River
110	122 - Road/Parking Lot	4.7	No	OPIC - FMD: Indian Reserve Road
140	500 - Water	20.7	No	OPIC - FMD: Lower South Branch Thunderbay River
421	310 - Herbaceous Openland	2.1	No	This would be great for planting a food plot annually.
441	31029 - Grass (OI)	1.4	No	This is a grassy opening with scattered large oak.
445	3105 - Mixed Upland Herbaceous	2.7	No	This wildlife opening was originally created by the DNR in 1984 to be 5 acres.
460	3102 - Grass	0.9	No	This opening was likely created by the Wildlife Division years ago. (OPIC - FMD: Some trees & brush.)
461	622 - Lowland Shrub	2.1	No	This opening is a mix of lowland shrub, low density trees, and grass. This wildlife opening was originally created by the DNR in 1984 to be 5 acres.(OPIC - FMD: Some trees & brush.)