



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33013

Entry Year 2023

Acreage: 675

County Menominee

Management Area: Nathan-Banat Moraines

**Revision Date:** 2021-06-29

**Stand Examiner:** Dustin Salter

**Legal Description:**

T36N R27W Sections 4, 5, and 6

**Identified Planning Goals:**

This compartment has three major cover types. They are aspen, lowland hardwood, and mixed lowland conifer cover types. There is one large aspen stand that will be clearcut this entry. Two upland hardwoods stand and two planted red pine stands that will be thinned this entry. One lower quality hardwood stand will be shelterwood cut, to regenerate more conifers. There is one lowland conifer stand and seven lowland ash stands that will be harvested. These lowland stands are over mature and are in need of treatment while there is a viable seed source and the ash are vigorous enough to sprout. The eastern larch beetle is present within the compartment and has caused a significant amount of mortality. The spruce budworm has been present for many years and has caused a significant amount of balsam fir and spruce mortality. The emerald ash borer is spreading throughout the county and is causing a significant amount of ash mortality. The lowland ash needs to be harvested, prior to mortality occurring in the compartment. Deer have caused an extensive amount of hardwood mortality in the stands harvested last entry. They have browsed and killed the majority of the stump sprouts from the hardwoods harvested.

**Soil and topography:**

This compartment contains Onaway-Nadeau fine sandy loam, Cathro-Ensley complex, Lupton-Cathro, Summerville-Cunard fine sandy loam, Onaway fine sandy loams, and Ensley mucky silt loam. This compartment is made up of well drained fine sandy loams with areas of poorly drained black muck and peat. The terrain is nearly level with areas of undulating topography.

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

This compartment is located in the middle of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. In and around the compartment the land holdings are broken up, with many private parcels. This compartment is nearly surrounded by private land, except around a portion of the northern edge. The primary use for this area is for recreation, with the exception for some farming..

**Unique Natural Features:**

None

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

None known.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

This compartment contains the headwaters of Ross Creek on the east side. Ross Creek is a designated Type 1 trout stream less than 50' width. However, recent fisheries surveys indicate a warmwater fish community is present, not coldwater. Therefore, a 100' buffer is recommended for Ross Creek; buffers are recommended to protect these areas in accordance with BMPs.

**Wildlife Habitat Considerations:**

This compartment is located within the Nathan-Banat Moraines Management Area. The moraines are situated in a forest-agricultural interface that has a preponderance of cedar, aspen, and northern hardwood cover types. Popular game species such as deer and wild turkey do well here. This small compartment contains a large (5539cre) aspen stand prescribed for final harvest and regeneration. White oak, hemlock, and white pine will be retained for diversity and mast (oak acorns), as will a portion of the red oak trees. A number of lowland deciduous stands are being treated this inventory cycle to address forest health concerns. Efforts were made to exclude cedar from harvest or limit its take due to the unreliability of regeneration of this species. Maintenance of mature cedar trees, both as scattered individuals and as larger clumps/patches, provides winter cover for a variety of wildlife species.

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

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is located about two miles south. While there is good sand & gravel potential on the upland drumlins, most of the compartment seems to consist of low-lying wetlands and has limited potential for surface mining. Bedrock is at or very near the surface here, and there may be potential for metallic minerals. There has been past metallic mineral exploration in the vicinity of the compartment, and Aquila's Back Forty project is roughly 7 miles southwest. There may be potential for discovery of additional sulfide deposits, like Back Forty, in the area. Mineral rights north of the compartment are currently nominated for leasing. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

## **Vehicle Access:**

The main access into the compartment on the west side is off of Pokovich Lane with a two-track road heading into the east. The west side of the compartment is accessed by the Wiregrass Lake Road. There are a few two track roads off of the Wiregrass Lake Road that provide some additional access.

## **Survey Needs:**

Two or three registered corners will need to be set, to prepare timber sales.

## **Recreational Facilities and Opportunities:**

There are no developed facilities within this compartment. The primary recreational uses are hunting and four-wheeling.

## **Fire Protection:**

This compartment consists mostly of forest types that do not pose a severe fire threat. Access into this compartment is very good for suppression activities. There are also water sources near by.

## **Additional Compartment Information:**

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

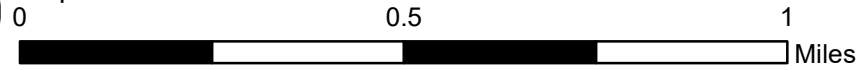
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

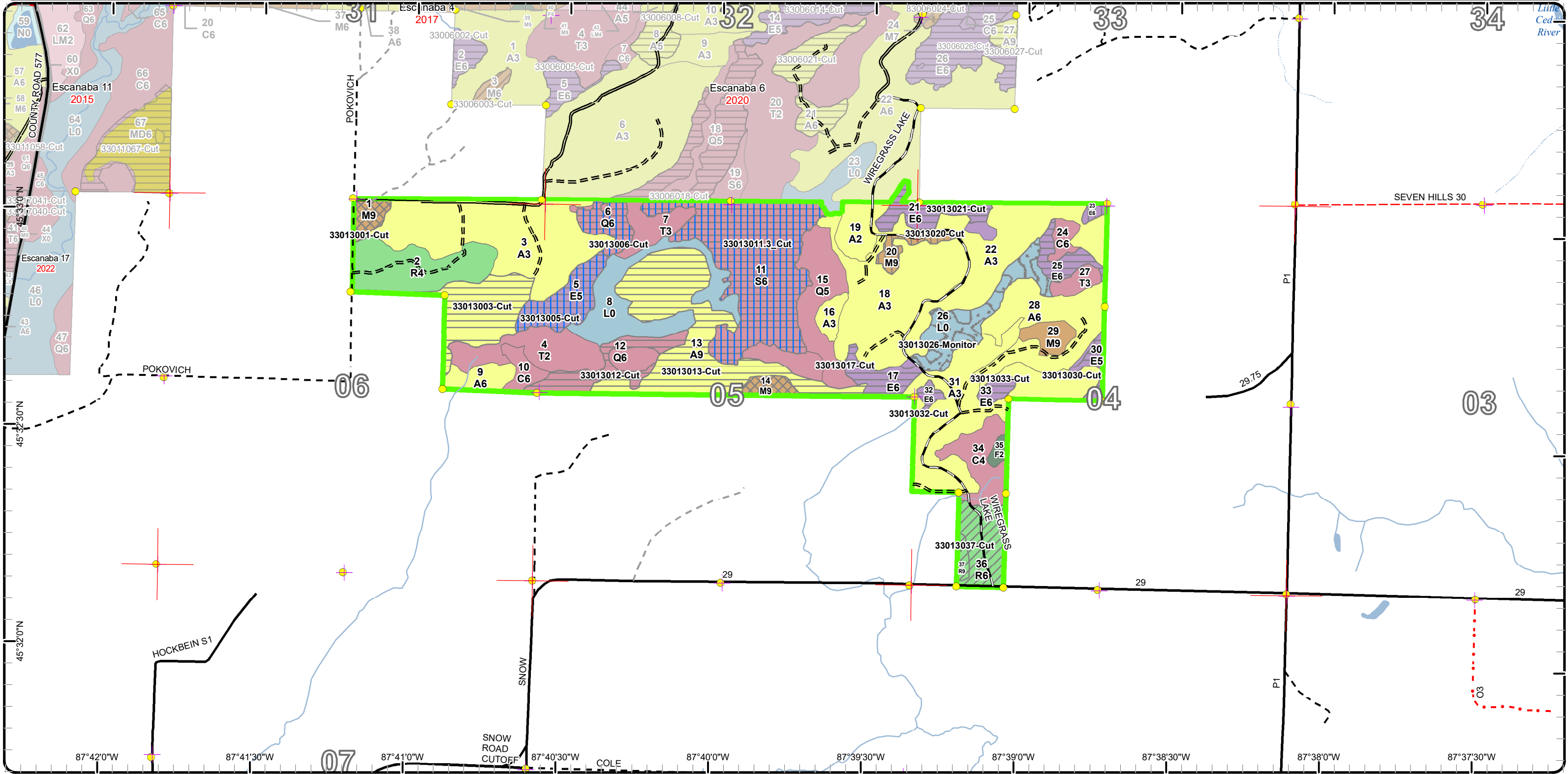
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 13  
 T36N R27W Sec. 05-06  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Nathan-Banat  
 Moraines  
 YOE: 2023  
 Acres: 674.8 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 6/29/2021  
 Map Phase: Web-Post



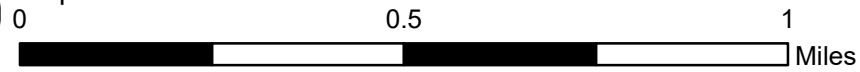
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub



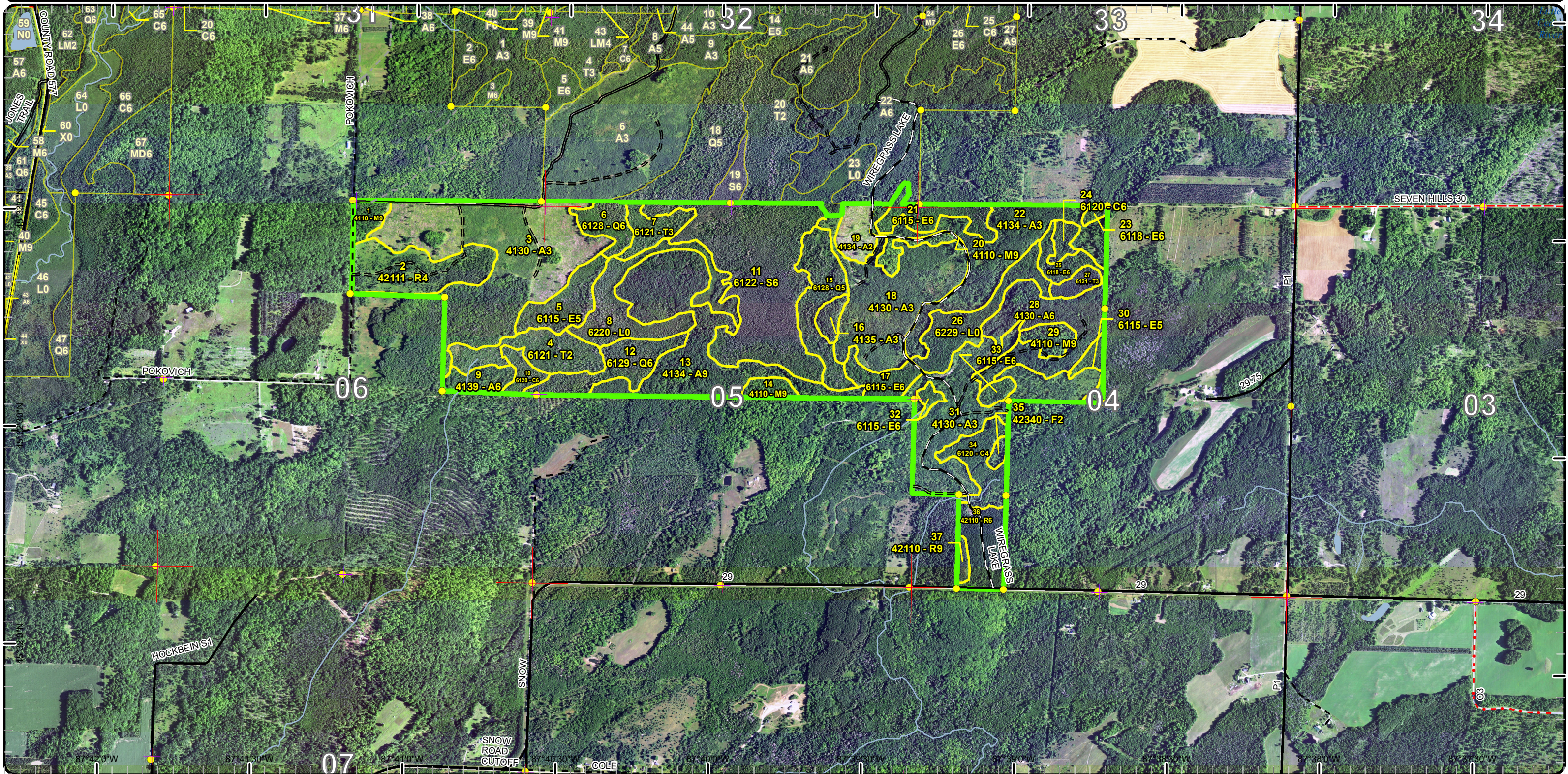


# Stand Boundary Map

Compartment: 13  
 T36N R27W Sec. 05-06  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Nathan-Banat  
 Moraines  
 YOE: 2023  
 Acres: 674.8 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 6/29/2021  
 Map Phase: Web-Post



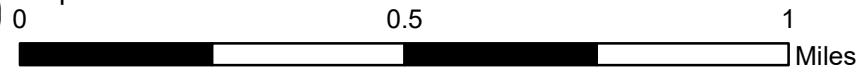
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub



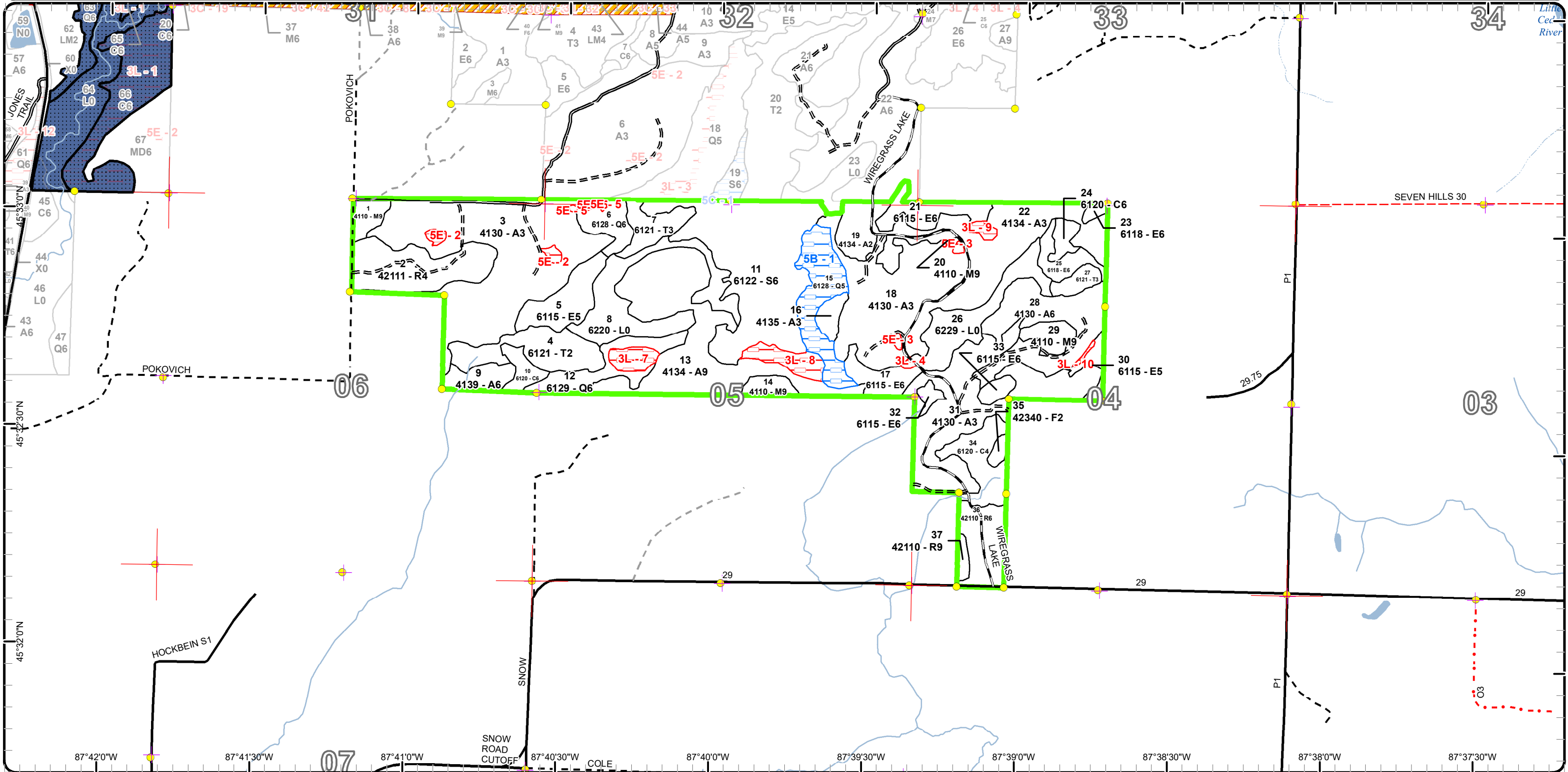


# Special Conservation Areas

Compartment: 13  
 T36N R27W Sec. 05-06  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Nathan-Banat  
 Moraines  
 YOE: 2023  
 Acres: 674.8 GIS Calculated  
 Examiner: Dustin Salter  
 Map Revised: 6/29/2021  
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- 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)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Spring or Seep



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	97	100	43	31	63	0	0	0	0	0	0	0	0	0	0	0	0	334
Cedar	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	23
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	48
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	52	2	0	0	0	0	0	0	53
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	72
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
Red Pine	0	0	0	0	41	0	0	2	0	0	0	0	0	0	0	0	0	0	43
Tamarack	0	4	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>47</b>	<b>101</b>	<b>100</b>	<b>74</b>	<b>72</b>	<b>63</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>165</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>675</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 13

Total Compartment Acres: 675

Commercial Harvest - 225  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut -

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	80	0	0	0	0	0	0	0	0	80
Lowland Conifers	13	0	0	9	0	0	0	0	0	22
Lowland Deciduous	35	0	0	14	2	0	0	0	0	51
Lowland Spruce/Fir	0	0	0	65	0	0	0	0	0	65
Northern Hardwood	0	9	0	0	5	0	0	0	0	14
Red Pine	0	0	0	0	0	18	0	0	0	18
<b>Total</b>	<b>128</b>	<b>9</b>	<b>0</b>	<b>88</b>	<b>6</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>249</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	249	0	0	0	0	0	19	0	0	269
Next Step	0	0	0	0	0	0	232	0	0	232
<b>Total</b>	<b>249</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>500</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	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

**Proposed Treatments:**

<b>1</b>	<b>33013001-Cut</b>	5.2	4110 - Sugar Maple Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm greater than three (3) inches at DBH.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, basswood, ash and beech.</p> <p><u>Regen:</u></p> <p><u>Other</u> Very good quality hardwood stand, that is in need of a thinning. This stand was previously thinned in 2013 on contract 024-13-01. This stand has a high percentage of good quality white ash that should be harvested prior to the arrival of the emerald ash borer. Also, the beech has beech scale on it, so most of that should also be harvested. The residual density of the stand is high, it needs to be lowered to improve the growth of the residual stems.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>12</b>	<b>33013012-Cut</b>	13.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	107	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
<p><u>Prescription</u> Cut all species greater than three (3) inches at DBH; except cedar. Only cut cedar less than ten (10) inches at DBH. Also retain the dense clump of cedar on the east end of the stand, along with any other dense clumps within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Tamarack, spruce, cedar, balm and birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland conifer stand. This stand is a mix of tamarack, cedar and black spruce. There are a couple of dense pockets of good quality cedar, otherwise most of it is moderate to low quality. The tamarack around the perimeter is dying, due to the eastern larch beetle. The tamarack needs to be harvested now, before it all dies and we lose a viable seed source. The dense area of cedar on the east end of the stand will be retained, along with all cedar over ten (10) inches at DBH. By removing the smaller cedar, it will create some open areas to allow full sunlight in to regenerate the tamarack and cedar and also allow access to harvest the other species. Only about 30% of the cedar will be harvested. This stand is in conditional range and has a canopy composition of 35% cedar. The biologist and forester identified winter shelter area to be excluded from harvest, within eastern portion of stand. Additional dense clumps of cedar within stand will be retained, and only cut cedar less than ten (10) inches at DBH. The remainder of the stand will be treated.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>13</b>	<b>33013013-Cut</b>	55.9	4134 - Aspen, Spruce/Fir	Sawtimber Well	49	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. The oak and pine will be retained for seed, mast and diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, spruce/fir, pine, maple, birch and black cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature aspen and spruce/fir stand. Over half of the spruce/fir is older and is being heavily defoliated by the spruce budworm. A significant amount of the balsam fir has already died due to the spruce budworm. There is also some white pine and cedar within the stand, but not 2% of either. This stand needs to be harvested to salvage as much spruce/fir as possible and to regenerate the aspen while it is vigorous enough to sprout following the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											





Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

14	33013014-Cut	4.1	4110 - Sugar Maple Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
----	--------------	-----	--------------------------------	----------------	-----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm greater than three (3) inches at DBH.  
Specs:

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

Acceptable Maple, basswood, beech, ash, and birch.  
Regen:

Other Moderate quality hardwood stand, that is in need of a thinning to improve the spacing of trees within the stand to improve the growth of the  
Comment: residual trees.

Site Condition

Proposed Start Date: 10/1 /2022

17	33013017-Cut	8.4	6115 - Lowland Ash	Poletimber Well	91	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
----	--------------	-----	--------------------	-----------------	----	--------	---------	-------------------------	----------------------------	-----------	----

Prescription Cut all trees greater than three (3) inches at DBH, except cedar. The dense patch of cedar in the northeast corner of the stand, which has  
Specs: been delineated out of the treatment will also be retained. Only cut those cedar needed to operate in the stand.

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

Acceptable Ash, maple, balm, spruce/fir and cedar.  
Regen:

Other Mature moderate quality black ash stand, with a dense pocket in the northeast corner of it. Most of the cedar is scattered throughout the  
Comment: stand, except for the dense patch. This stand needs to be harvested, prior to the arrival of the emerald ash borer that will kill all of the ash. The dense area of cedar will be retained, to provide functional deer shelter.

Site Condition

Proposed Start Date: 10/1 /2022

20	33013020-Cut	4.7	4110 - Sugar Maple Association	Sawtimber Well	104	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
----	--------------	-----	--------------------------------	----------------	-----	--------	---------	-------------	----------------------------	----------	----

Prescription Mark 20 basal area of mixed species to retain, cutting all other trees greater than three (3) inches at DBH, including cedar if present.  
Specs:

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

Acceptable Aspen, spruce/fir, maple, pine and basswood.  
Regen:

Other Moderate to low quality hardwood stand. This stand should be shelterwood cut to begin to regenerate upland conifers. By doing a  
Comment: shelterwood harvest, partial sunlight will reach the ground allowing the conifer seeds to germinate. After the regeneration becomes established the remaining overstory can be harvested.

Site Condition

Proposed Start Date: 10/1 /2022



S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>21 33013021-Cut</b>	10.6	6115 - Lowland Ash	Poletimber Well	91	81-110	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar. The southeastern end of the stand is being retained to preserve the functional winter cover within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, tamarack, ash, aspen, balm, cedar and pine.</p> <p><u>Other Comment:</u> Moderate to low quality black ash stand. The west end of the stand has better quality ash and the west end has higher ground with good quality black spruce. A high percentage of the spruce has already died, due to the spruce budworm and advanced age. This stand needs to be harvested to salvage as much spruce as possible and prior to the arrival of the emerald ash borer that will kill all of the ash. This stand is in conditional range and has a canopy composition of 10% cedar. The biologist and forester identified winter shelter area to be excluded from harvest. The remainder of the stand will be treated.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>23 33013023-Cut</b>	1.5	6118 - Lowland Deciduous with Cedar	Poletimber Well	107	81-110	Harvest	Shelterwood	6118 - Lowland Deciduous with Cedar	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except cedar. Only cut those cedar needed to operate within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Lowland hardwood, spruce, tamarack and cedar.</p> <p><u>Other Comment:</u> Moderate quality mature lowland hardwood and cedar stand. The stand should be harvested prior to the arrival of the emerald ash borer. Also, the tamarack is dying due to the eastern larch beetle. Harvest this stand to salvage as much wood as possible and to regenerate the hardwood species while they are vigorous enough to stump sprout.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>25 33013025-Cut</b>	6.8	6118 - Lowland Deciduous with Cedar	Poletimber Well	91	51-80	Harvest	Clearcut with Retention	6118 - Lowland Deciduous with Cedar	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except cedar. Only cut those cedar needed to operate within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce/fir, tamarack, ash, balm and cedar.</p> <p><u>Other Comment:</u> Mature moderate to low quality black ash stand with some denser clumps of cedar. This stand needs to be harvested prior to the arrival of the emerald ash borer that will kill all of the ash. The cedar will be retained from the harvest, most of it is in small clumps and will not affect the lowland hardwoods for sprouting. This stand is in conditional range and has a canopy composition of 20% cedar. The stand will be treated, only harvesting cedar necessary to operate within stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										





S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>26 33013026-Monitor</b>	19.3	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Monitor for regeneration.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Spruce/fir, tamarack, ash, balm, cedar and pine.  <u>Regen:</u>  <u>Other</u> Stand was shelterwood cut in 2017 on contract 030-13-01. About 20 BA was retained, to provide partial shade. The ash and maple that stump sprouted following the harvest have been heavily browsed and killed by deer. Lowland hardwood has been nearly eliminated from the stand, now we will be relying on conifers to continue to seed in.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>30 33013030-Cut</b>	3.7	6115 - Lowland Ash	Poletimber Medium	91	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. Retain the strip of cedar and other conifers along the western edge of the stand, to provide a travel corridor and shelter.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Spruce/fir, tamarack, maple, balm and ash.  <u>Regen:</u>  <u>Other</u> Mature low quality black ash stand. Harvest this stand prior to the arrival of the emerald ash borer. Harvesting the stand will allow the lowland hardwood to stump sprout following the harvest. This stand is in conditional range and has a canopy composition of 12% cedar. The biologist and forester identified winter shelter area to be excluded from harvest, along the western edge of the stand. The remainder of the stand will be treated.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>32 33013032-Cut</b>	2.2	6115 - Lowland Ash	Poletimber Well	91	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Spruce/fir, tamarack, maple, ash and birch.  <u>Regen:</u>  <u>Other</u> Mature moderate to low quality black ash stand. This stand needs to be harvested prior to the arrival of the emerald ash borer that will kill all of the ash. This stand is in conditional range and has a canopy composition of 2% cedar. Cedar trees are widely scattered, lacking in shelter qualities. WD and FRD are in agreement that all cedar may be harvested.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										



S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>33 33013033-Cut</b>	3.1	6115 - Lowland Ash	Poletimber Well	91	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce/fir, tamarack, ash, maple and birch.</p> <p><u>Other Comment:</u> Moderate to low quality black ash stand, that is mature and should be harvested prior to the arrival of the emerald ash borer. By harvesting the stand now, the lowland hardwoods will stump sprout following the harvest. This stand is in conditional range and has a canopy composition of 5% cedar. Cedar trees are widely scattered, lacking in shelter qualities. WD and FRD are in agreement that all cedar may be harvested.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>36 33013036-Cut</b>	15.3	42110 - Planted Red Pine	Poletimber Well	31	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Thin stand by cutting two rows of red pine and leaving two rows, alternating throughout the stand. Also, cut all other species greater than three (3) inches at DBH, including cedar if present.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Good quality red pine plantation, that is ready to be thinned for the first time. Thinning the stand will allow more space to improve the growth of the remaining trees. This stand was trenched and planted in 1993 on FTP #33-321.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>37 33013037-Cut</b>	2.2	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Mark red pine down to 90 basal area, including cutting all other species greater than three (3) inches at DBH, including cedar if present.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Red pine plantation that has been thinned 3 times, with the last time in 2007 on contract 030-03-01. This stand is ready to be thinned again, to improve the growth of the remaining trees.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

**Approved Treatments:**

<b>3 33013003-Cut</b>	24.4	4130 - Aspen	Sapling Well	6	Immature	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than 3 inches; except white oak, red pine, white pine, and hemlock. Also, do not cut red oak and beech marked with green paint.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, maple, basswood, oak, pine, and spruce/fir.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p>										





S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Proposed Start Date: 6/19/2018

5	33013005-Cut	14.3	6115 - Lowland Ash	Poletimber Medium	91	Unspecified	Harvest	Seed Tree with Retention	6121 - Tamarack	Two-Aged	No
---	--------------	------	--------------------	-------------------	----	-------------	---------	--------------------------	-----------------	----------	----

Prescription This stand was on contract 024-13-01, but was not cut, so it will be re-advertised. Harvest this stand, leaving a mix of seed trees. Most of the seed trees should be tamarack and spruce. Manage this stand for tamarack primarily, but any mix of the current overstory species is acceptable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Tamarack, aspen, balm, spruce/fir, ash, and maple.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 6/19/2018

6	33013006-Cut	8.6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	107	51-80	Harvest	Seed Tree with Retention	6121 - Tamarack	Two-Aged	No
---	--------------	-----	--------------------------------------------	-----------------	-----	-------	---------	--------------------------	-----------------	----------	----

Prescription This stand was on contract 024-13-01, but was not cut, so it will be re-advertised. Harvest this stand, leaving seed tree clumps. The clumps should consist of a mix of the overstory species, including cedar. Leave enough to meet the retention guidelines. Manage this stand for tamarack, but a mix of the current overstory species is acceptable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Tamarack, spruce/fir, aspen, balm, maple, and ash.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 6/19/2018

11	33013011.3_C ut	65.3	6122 - Black Spruce	Poletimber Well	100	81-110	Harvest	Seed Tree with Retention	6122 - Black Spruce	Two-Aged	No
----	--------------------	------	---------------------	-----------------	-----	--------	---------	--------------------------	---------------------	----------	----

Prescription Harvest this stand, leaving seed tree clumps along with the thickest patch of cedar on the south end of the stand. In addition leave all cedar marked with green paint. This stand was on contract 030-13-01, but was never harvested. The stand will be sold again.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce

Regen:

Other This stand was on contract 030-13-01, but was never harvested. The stand will be sold again.

Comment:

Site Condition

Proposed Start Date: 3/30/2017

**Total Treatment  
Acreage Proposed: 268.6**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 13  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	3L	5E
		With Condition	Not Available				
334	331	0	3	Aspen			3
23	23	0	0	Cedar			
47	22	21	5	Lowland Conifers	21	4	1
53	51	0	3	Lowland Deciduous		3	
47	47	0	0	Lowland Shrub			
72	65	0	7	Lowland Spruce/Fir		7	
20	20	0	0	Northern Hardwood			
43	43	0	0	Red Pine			
33	33	0	0	Tamarack			
2	2	0	0	Upland Spruce/Fir			
675	637	21	18	Total Forested Acres	21	14	4
	94%	3%	3%	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	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dustin Salter : Examiner

Compartment: 13  
Year of Entry: 2023

4	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dense patch of cedar that provides functional shelter for deer.							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dense Cedar patches.							
7	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dense patch of cedar that provides functional shelter for deer.							
8	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dense cedar area that will provide functional shelter for deer and long term retention.							
9	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area is being retained to provide functional winter shelter, per wildlife division.							
10	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retain a strip of cedar and other conifers to provide cover and shelter.							

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
----------	--------------	-------------	----------------	-------

Comments
----------





### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
1	4110 - Sugar Maple Association	Sawtimber Well	5.2	104	111-140	N/A	Very good quality hardwood stand, that is in need of a thinning. This stand was previously thinned in 2013 on contract 024-13-01. This stand has a high percentage of good quality white ash that should be harvested prior to the arrival of the emerald ash borer. Also, the beech has beech scale on it, so most of that should also be harvested. The residual density of the stand is high, it needs to be lowered to improve the growth of the residual stems.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>45</td><td>Log/Pole</td><td>13</td><td>104</td></tr> <tr><td>Basswood</td><td>25</td><td>Log/Pole</td><td>15</td><td>104</td></tr> <tr><td>White Ash</td><td>17</td><td>Log/Pole</td><td>14</td><td>104</td></tr> <tr><td>Beech</td><td>3</td><td>Log/Pole</td><td>12</td><td>104</td></tr> <tr><td>Red Oak</td><td>7</td><td>Log/Pole</td><td>14</td><td>104</td></tr> <tr><td>White Oak</td><td>3</td><td>Log/Pole</td><td>14</td><td>104</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	45	Log/Pole	13	104	Basswood	25	Log/Pole	15	104	White Ash	17	Log/Pole	14	104	Beech	3	Log/Pole	12	104	Red Oak	7	Log/Pole	14	104	White Oak	3	Log/Pole	14	104	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Leatherwood</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Leatherwood	Low	Variable	Tall Shrub																				
Canopy Species	% Cover	Size Class	DBH	Age																																																															
Sugar Maple	45	Log/Pole	13	104																																																															
Basswood	25	Log/Pole	15	104																																																															
White Ash	17	Log/Pole	14	104																																																															
Beech	3	Log/Pole	12	104																																																															
Red Oak	7	Log/Pole	14	104																																																															
White Oak	3	Log/Pole	14	104																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																																
Leatherwood	Low	Variable	Tall Shrub																																																																
2	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Poor	25.8	30	51-80	N/A	The original stand was clearcut in 1991 on contract 018-88-01. It was sprayed, trenched, and planted in 1993 on FTP 33-317. The planted red pine is patchy, with varying densities. There are a few areas that could be thinned now, but overall the stand is not ready for a thinning. Wait ten years to thin the stand. There are areas of the stand, the red pine didn't take, that have filled in with a mix of species.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>8</td><td>Pole/Sapling</td><td>6</td><td>30</td></tr> <tr><td>White Ash</td><td>2</td><td>Pole/Sapling</td><td>7</td><td>50</td></tr> <tr><td>White Oak</td><td>10</td><td>Log/Pole</td><td>12</td><td>104</td></tr> <tr><td>Ironwood</td><td>3</td><td>Pole/Sapling</td><td>5</td><td>30</td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole/Sapling</td><td>6</td><td>30</td></tr> <tr><td>White Spruce</td><td>2</td><td>Pole/Sapling</td><td>7</td><td>50</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black Cherry	8	Pole/Sapling	6	30	White Ash	2	Pole/Sapling	7	50	White Oak	10	Log/Pole	12	104	Ironwood	3	Pole/Sapling	5	30	Balsam Fir	5	Pole/Sapling	6	30	White Spruce	2	Pole/Sapling	7	50	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Poplar	Low	10 - 20 feet	Sapling																				
Canopy Species	% Cover	Size Class	DBH	Age																																																															
Black Cherry	8	Pole/Sapling	6	30																																																															
White Ash	2	Pole/Sapling	7	50																																																															
White Oak	10	Log/Pole	12	104																																																															
Ironwood	3	Pole/Sapling	5	30																																																															
Balsam Fir	5	Pole/Sapling	6	30																																																															
White Spruce	2	Pole/Sapling	7	50																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																																
Balsam Poplar	Low	10 - 20 feet	Sapling																																																																
3	4130 - Aspen	Sapling Well	84.9	6	Immature	N/A	The northern 2/3rds of this stand was clearcut between 2013 and 2105 on contract 024-01-01. The southern 1/3rd was clearcut in 2019 on contract 33-036-19. There were two retention patches left within the stand. These patches are a mix of hardwood and oak. There were also some scattered oak and pine retained. The stand has fully regenerated with aspen.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>2</td><td>Log/Pole</td><td>10</td><td>104</td></tr> <tr><td>Ironwood</td><td>3</td><td>Sapling/Pole</td><td>2</td><td>6</td></tr> <tr><td>Red Oak</td><td>2</td><td>Log/Pole</td><td>10</td><td>104</td></tr> <tr><td>White Oak</td><td>3</td><td>Log/Pole</td><td>13</td><td>104</td></tr> <tr><td>Quaking Aspen</td><td>65</td><td>Sapling</td><td>2</td><td>6</td></tr> <tr><td>Balsam Poplar</td><td>10</td><td>Sapling</td><td>2</td><td>6</td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Sapling</td><td>1</td><td>6</td></tr> <tr><td>White Ash</td><td>3</td><td>Sapling/Pole</td><td>3</td><td>40</td></tr> <tr><td>Black Cherry</td><td>2</td><td>Sapling</td><td>1</td><td>6</td></tr> <tr><td>White Spruce</td><td>5</td><td>Sapling</td><td>1</td><td>6</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	2	Log/Pole	10	104	Ironwood	3	Sapling/Pole	2	6	Red Oak	2	Log/Pole	10	104	White Oak	3	Log/Pole	13	104	Quaking Aspen	65	Sapling	2	6	Balsam Poplar	10	Sapling	2	6	Balsam Fir	5	Sapling	1	6	White Ash	3	Sapling/Pole	3	40	Black Cherry	2	Sapling	1	6	White Spruce	5	Sapling	1	6	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	< 5 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																															
Sugar Maple	2	Log/Pole	10	104																																																															
Ironwood	3	Sapling/Pole	2	6																																																															
Red Oak	2	Log/Pole	10	104																																																															
White Oak	3	Log/Pole	13	104																																																															
Quaking Aspen	65	Sapling	2	6																																																															
Balsam Poplar	10	Sapling	2	6																																																															
Balsam Fir	5	Sapling	1	6																																																															
White Ash	3	Sapling/Pole	3	40																																																															
Black Cherry	2	Sapling	1	6																																																															
White Spruce	5	Sapling	1	6																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																																
White Pine	Low	< 5 feet	Sapling																																																																
4	6121 - Tamarack	Sapling Medium	19.6	27	Immature	N/A	Stand was clearcut in 1994 on contract 001-94-01. Some cedar and tamarack seed trees were retained, but most have died or have been blown over. Stand has fully regenerated to tamarack.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Poplar</td><td>5</td><td>Sapling</td><td>2</td><td>27</td></tr> <tr><td>Black Spruce</td><td>5</td><td>Sapling</td><td>2</td><td>27</td></tr> <tr><td>Tamarack</td><td>70</td><td>Sapling</td><td>2</td><td>27</td></tr> <tr><td>Black Ash</td><td>10</td><td>Sapling</td><td>2</td><td>27</td></tr> <tr><td>Red Maple</td><td>5</td><td>Sapling</td><td>2</td><td>27</td></tr> <tr><td>Paper Birch</td><td>5</td><td>Sapling</td><td>2</td><td>27</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Poplar	5	Sapling	2	27	Black Spruce	5	Sapling	2	27	Tamarack	70	Sapling	2	27	Black Ash	10	Sapling	2	27	Red Maple	5	Sapling	2	27	Paper Birch	5	Sapling	2	27	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Michigan Holly</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	< 5 feet	Tall Shrub	Michigan Holly	Low	5 - 10 feet	Tall Shrub																
Canopy Species	% Cover	Size Class	DBH	Age																																																															
Balsam Poplar	5	Sapling	2	27																																																															
Black Spruce	5	Sapling	2	27																																																															
Tamarack	70	Sapling	2	27																																																															
Black Ash	10	Sapling	2	27																																																															
Red Maple	5	Sapling	2	27																																																															
Paper Birch	5	Sapling	2	27																																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																																
Tag Alder	Medium	< 5 feet	Tall Shrub																																																																
Michigan Holly	Low	5 - 10 feet	Tall Shrub																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
5	6115 - Lowland Ash	Poletimber Medium	14.3	91	Unspecified	N/A	Poorly stocked lowland ash stand with other species mixed in. This stand is on contract 33-036-19 to be clearcut.																																													
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>3</td> <td>Pole</td> <td>9</td> <td>91</td> </tr> <tr> <td>Balsam Poplar</td> <td>3</td> <td>Pole</td> <td>9</td> <td>91</td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole</td> <td>9</td> <td>91</td> </tr> <tr> <td>Northern White Cedar</td> <td>2</td> <td>Pole</td> <td>9</td> <td>91</td> </tr> <tr> <td>Tamarack</td> <td>10</td> <td>Pole</td> <td>9</td> <td>91</td> </tr> <tr> <td>Black Ash</td> <td>80</td> <td>Pole/Sapling</td> <td>4</td> <td>91</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	3	Pole	9	91	Balsam Poplar	3	Pole	9	91	Black Spruce	2	Pole	9	91	Northern White Cedar	2	Pole	9	91	Tamarack	10	Pole	9	91	Black Ash	80	Pole/Sapling	4	91			<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Low	10 - 20 feet	Sapling	Tag Alder	Medium	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																
Paper Birch	3	Pole	9	91																																																
Balsam Poplar	3	Pole	9	91																																																
Black Spruce	2	Pole	9	91																																																
Northern White Cedar	2	Pole	9	91																																																
Tamarack	10	Pole	9	91																																																
Black Ash	80	Pole/Sapling	4	91																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Tamarack	Low	10 - 20 feet	Sapling																																																	
Tag Alder	Medium	Variable	Tall Shrub																																																	
6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.1	107	51-80	N/A	This stand was on contract 024-13-01 to be clearcut, but it was turned back un-cut. The stand is now on contract 33-036-19 to be clearcut. This stand is a mixed lowland type. Half of the stand is primarily ash and the other half is a mix of cedar, spruce, and tamarack. There are three retention patches that will be retained.																																													
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>2</td> <td>Pole</td> <td>8</td> <td>91</td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>8</td> <td>91</td> </tr> <tr> <td>Balsam Fir</td> <td>2</td> <td>Pole/Sapling</td> <td>7</td> <td>91</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>8</td> <td>91</td> </tr> <tr> <td>Northern White Cedar</td> <td>40</td> <td>Pole</td> <td>7</td> <td>107</td> </tr> <tr> <td>Tamarack</td> <td>14</td> <td>Pole</td> <td>8</td> <td>91</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	2	Pole	8	91	Paper Birch	2	Pole	8	91	Balsam Fir	2	Pole/Sapling	7	91	Black Spruce	5	Pole	8	91	Northern White Cedar	40	Pole	7	107	Tamarack	14	Pole	8	91			<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub				
Canopy Species	% Cover	Size Class	DBH	Age																																																
Red Maple	2	Pole	8	91																																																
Paper Birch	2	Pole	8	91																																																
Balsam Fir	2	Pole/Sapling	7	91																																																
Black Spruce	5	Pole	8	91																																																
Northern White Cedar	40	Pole	7	107																																																
Tamarack	14	Pole	8	91																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Tag Alder	Medium	Variable	Tall Shrub																																																	
7	6121 - Tamarack	Sapling Well	9.1	25	Immature	N/A	Stand was clearcut in 1996 on contract 001-94-01. This stand has fully regenerated with tamarack, with some residual tamarack and cedar.																																													
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>7</td> <td>Pole/Log</td> <td>9</td> <td>107</td> </tr> <tr> <td>Tamarack</td> <td>80</td> <td>Sapling/Pole</td> <td>3</td> <td>25</td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Sapling</td> <td>2</td> <td>25</td> </tr> <tr> <td>Black Ash</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td>70</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	7	Pole/Log	9	107	Tamarack	80	Sapling/Pole	3	25	Black Spruce	10	Sapling	2	25	Black Ash	3	Pole/Sapling	5	70			<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	Variable	Tall Shrub														
Canopy Species	% Cover	Size Class	DBH	Age																																																
Northern White Cedar	7	Pole/Log	9	107																																																
Tamarack	80	Sapling/Pole	3	25																																																
Black Spruce	10	Sapling	2	25																																																
Black Ash	3	Pole/Sapling	5	70																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Tag Alder	Low	Variable	Tall Shrub																																																	
8	6220 - Alder/willow	Nonstocked	27.4		Unspecified	No	Lowland brush stand with some clumps of merchantable tamarack and ash.																																													
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Black Ash</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Low	>20 feet	Pole	Black Ash	Low	>20 feet	Pole																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Tamarack	Low	>20 feet	Pole																																																	
Black Ash	Low	>20 feet	Pole																																																	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
9	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.2	48	51-80	N/A	Two aged stand with older hardwoods and younger aspen. All species are mature and should be harvested to provide full sunlight to regenerate the aspen.																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Poplar</td><td>5</td><td>Pole</td><td>9</td><td>48</td></tr> <tr><td>Sugar Maple</td><td>10</td><td>Pole</td><td>8</td><td>91</td></tr> <tr><td>Basswood</td><td>2</td><td>Pole/Log</td><td>8</td><td>91</td></tr> <tr><td>Bigtooth Aspen</td><td>52</td><td>Pole/Log</td><td>9</td><td>48</td></tr> <tr><td>Black Ash</td><td>20</td><td>Pole/Sap/Log</td><td>8</td><td>91</td></tr> <tr><td>Ironwood</td><td>3</td><td>Pole/Sapling</td><td>6</td><td>48</td></tr> <tr><td>Red Maple</td><td>3</td><td>Pole</td><td>8</td><td>91</td></tr> <tr><td>Black Cherry</td><td>2</td><td>Pole/Sapling</td><td>7</td><td>48</td></tr> <tr><td>White Spruce</td><td>3</td><td>Pole/Sap/Log</td><td>8</td><td>48</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	5	Pole	9	48	Sugar Maple	10	Pole	8	91	Basswood	2	Pole/Log	8	91	Bigtooth Aspen	52	Pole/Log	9	48	Black Ash	20	Pole/Sap/Log	8	91	Ironwood	3	Pole/Sapling	6	48	Red Maple	3	Pole	8	91	Black Cherry	2	Pole/Sapling	7	48	White Spruce	3	Pole/Sap/Log	8	48	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>Low</td><td>&lt; 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>&gt;20 feet</td><td>Sapling</td></tr> <tr><td>Tamarack</td><td>Low</td><td>&gt;20 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	< 5 feet	Tall Shrub	Balsam Fir	Low	>20 feet	Sapling	Tamarack	Low	>20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Balsam Poplar	5	Pole	9	48																																																																	
Sugar Maple	10	Pole	8	91																																																																	
Basswood	2	Pole/Log	8	91																																																																	
Bigtooth Aspen	52	Pole/Log	9	48																																																																	
Black Ash	20	Pole/Sap/Log	8	91																																																																	
Ironwood	3	Pole/Sapling	6	48																																																																	
Red Maple	3	Pole	8	91																																																																	
Black Cherry	2	Pole/Sapling	7	48																																																																	
White Spruce	3	Pole/Sap/Log	8	48																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Tag Alder	Low	< 5 feet	Tall Shrub																																																																		
Balsam Fir	Low	>20 feet	Sapling																																																																		
Tamarack	Low	>20 feet	Sapling																																																																		
10	6120 - Lowland Cedar	Poletimber Well	5.0	107	51-80	N/A	Very poor quality cedar stand, with most of the cedar less than 25' tall and the crowns are dying back. There are some pockets of tamarack and black ash. The tamarack is nearly all dead, due to the eastern larch beetle.																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>5</td><td>Pole/Sap/Log</td><td>8</td><td>107</td></tr> <tr><td>Northern White Cedar</td><td>70</td><td>Pole/Sapling</td><td>6</td><td>107</td></tr> <tr><td>Tamarack</td><td>10</td><td>Pole/Sap/Log</td><td>8</td><td>107</td></tr> <tr><td>Black Ash</td><td>15</td><td>Pole/Sapling</td><td>5</td><td>107</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	5	Pole/Sap/Log	8	107	Northern White Cedar	70	Pole/Sapling	6	107	Tamarack	10	Pole/Sap/Log	8	107	Black Ash	15	Pole/Sapling	5	107	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub																																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Black Spruce	5	Pole/Sap/Log	8	107																																																																	
Northern White Cedar	70	Pole/Sapling	6	107																																																																	
Tamarack	10	Pole/Sap/Log	8	107																																																																	
Black Ash	15	Pole/Sapling	5	107																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Tag Alder	Medium	Variable	Tall Shrub																																																																		
11	6122 - Black Spruce	Poletimber Well	72.1	100	81-110	N/A	Stunted black spruce stand. Stand is on contract 33-041-17 to be clearcut. One large dense cedar area was retained, along the southern edge of the stand. Also, some seed tree clumps will be retained.																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Paper Birch</td><td>2</td><td>Pole/Log</td><td>9</td><td>100</td></tr> <tr><td>Black Spruce</td><td>65</td><td>Pole/Sapling</td><td>7</td><td>100</td></tr> <tr><td>Northern White Cedar</td><td>20</td><td>Pole</td><td>8</td><td>100</td></tr> <tr><td>Tamarack</td><td>13</td><td>Pole</td><td>8</td><td>100</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	2	Pole/Log	9	100	Black Spruce	65	Pole/Sapling	7	100	Northern White Cedar	20	Pole	8	100	Tamarack	13	Pole	8	100	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>Low</td><td>&lt; 5 feet</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	< 5 feet	Sapling	Tag Alder	Low	Variable	Tall Shrub																													
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Paper Birch	2	Pole/Log	9	100																																																																	
Black Spruce	65	Pole/Sapling	7	100																																																																	
Northern White Cedar	20	Pole	8	100																																																																	
Tamarack	13	Pole	8	100																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Black Spruce	Low	< 5 feet	Sapling																																																																		
Tag Alder	Low	Variable	Tall Shrub																																																																		
12	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	17.5	107	81-110	N/A	Mature lowland conifer stand. This stand is a mix of tamarack, cedar and black spruce. There are a couple of dense pockets of good quality cedar, otherwise most of it is moderate to low quality. The tamarack around the perimeter is dying, due to the eastern larch beetle. The tamarack needs to be harvested now, before it all dies and we lose a viable seed source. The dense area of cedar on the east end of the stand will be retained, along with all cedar over ten (10) inches at DBH. By removing the smaller cedar, it will create some open areas to allow full sunlight in to regenerate the tamarack and cedar and also allow access to harvest the other species. Only about 30% of the cedar will be harvested.																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>2</td><td>Pole</td><td>8</td><td>107</td></tr> <tr><td>Paper Birch</td><td>3</td><td>Pole</td><td>8</td><td>107</td></tr> <tr><td>Black Spruce</td><td>15</td><td>Pole/Sap/Log</td><td>8</td><td>107</td></tr> <tr><td>Northern White Cedar</td><td>35</td><td>Pole/Log/Sap</td><td>8</td><td>107</td></tr> <tr><td>Tamarack</td><td>40</td><td>Pole/Log</td><td>8</td><td>107</td></tr> <tr><td>Black Ash</td><td>5</td><td>Pole/Sapling</td><td>7</td><td>107</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	2	Pole	8	107	Paper Birch	3	Pole	8	107	Black Spruce	15	Pole/Sap/Log	8	107	Northern White Cedar	35	Pole/Log/Sap	8	107	Tamarack	40	Pole/Log	8	107	Black Ash	5	Pole/Sapling	7	107	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub																							
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Red Maple	2	Pole	8	107																																																																	
Paper Birch	3	Pole	8	107																																																																	
Black Spruce	15	Pole/Sap/Log	8	107																																																																	
Northern White Cedar	35	Pole/Log/Sap	8	107																																																																	
Tamarack	40	Pole/Log	8	107																																																																	
Black Ash	5	Pole/Sapling	7	107																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Tag Alder	Medium	Variable	Tall Shrub																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

<b>13</b>	4134 - Aspen, Spruce/Fir	Sawtimber Well	55.9	49	51-80	N/A	Mature aspen and spruce/fir stand. Over half of the spruce/fir is older and is being heavily defoliated by the spruce budworm. A significant amount of the balsam fir has already died due to the spruce budworm. There is also some white pine and cedar within the stand, but not 2% of either. This stand needs to be harvested to salvage as much spruce/fir as possible and to regenerate the aspen while it is vigorous enough to sprout following the harvest.
-----------	--------------------------	----------------	------	----	-------	-----	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log	9	76	Ironwood	Low	10 - 20 feet	Sapling
Paper Birch	3	Pole	8	76				
Quaking Aspen	30	Log/Pole	10	49				
Balsam Fir	30	Pole/Sapling	7	76				
White Spruce	7	Pole/Sap/Log	7	76				
White Ash	3	Pole/Sapling	7	76				
Bigtooth Aspen	20	Log/Pole	10	49				
Red Oak	2	Log/Pole	12	104				
Black Cherry	2	Pole/Sapling	5	49				

<b>14</b>	4110 - Sugar Maple Association	Sawtimber Well	4.1	104	111-140	N/A	Moderate quality hardwood stand, that is in need of a thinning to improve the spacing of trees within the stand to improve the growth of the residual trees.
-----------	--------------------------------	----------------	-----	-----	---------	-----	--------------------------------------------------------------------------------------------------------------------------------------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log/Pole	11	104	Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple	10	Pole/Log	9	104				
Basswood	35	Log/Pole	12	104				
White Ash	5	Log/Pole	10	104				
Beech	3	Log/Pole	10	104				
Ironwood	2	Pole/Sapling	5					

<b>15</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	20.6	104	1-50	N/A	Stand was final harvested in 1993-94 on contract 010-88-01. The cedar and hemlock was retained. This is a two-aged stand with older mature cedar and a mix of lowland conifers and hardwoods. There are also numerous dense pockets of tagalder scattered through the stand.
-----------	--------------------------------------------	-------------------	------	-----	------	-----	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Sapling/Pole	3	27	Tag Alder	Medium	Variable	Tall Shrub
Paper Birch	5	Sapling/Pole	4	27				
Quaking Aspen	2	Sapling/Pole	4	27				
Balsam Poplar	5	Sapling/Pole	4	27				
Balsam Fir	5	Sapling/Pole	3	27				
Black Spruce	5	Sapling/Pole	3	27				
Northern White Cedar	35	Pole/Log	9	104				
Tamarack	20	Sapling/Pole	4	27				

<b>16</b>	4135 - Aspen, Cedar	Sapling Well	4.0	5	Immature	N/A	The stand was clearcut in 2016 on contract 030-13-01; except the cedar and black cherry was retained. Most of the residual black cherry has blown over and died. Some of the cedar has also blown over. The stand has regenerated well with aspen, except of the north end that has most of the residual cedar. This end has more conifer regeneration.
-----------	---------------------	--------------	-----	---	----------	-----	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Sapling	1	5	White Spruce	Low	< 5 feet	Sapling
Balsam Fir	3	Sapling	1	5				
Northern White Cedar	20	Log/Pole	12	104				
Black Cherry	2	Sapling/Pole	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
17	6115 - Lowland Ash	Poletimber Well	8.9	91	81-110	N/A	Mature moderate quality black ash stand, with a dense pocket in the northeast corner of it. Most of the cedar is scattered throughout the stand, except for the dense patch. This stand needs to be harvested, prior to the arrival of the emerald ash borer that will kill all of the ash. The dense area of cedar will be retained, to provide functional deer shelter.																																																					
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Yellow Birch</td><td>3</td><td>Pole/Sap/Log</td><td>8</td><td>91</td></tr> <tr><td>Red Maple</td><td>2</td><td>Log/Pole</td><td>10</td><td>91</td></tr> <tr><td>Black Spruce</td><td>5</td><td>Pole/Log/Sap</td><td>9</td><td>91</td></tr> <tr><td>Northern White Cedar</td><td>15</td><td>Pole/Log</td><td>9</td><td>91</td></tr> <tr><td>Black Ash</td><td>72</td><td>Pole/Sap/Log</td><td>7</td><td>91</td></tr> <tr><td>Green Ash</td><td>3</td><td>Pole/Sap/Log</td><td>8</td><td>91</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	3	Pole/Sap/Log	8	91	Red Maple	2	Log/Pole	10	91	Black Spruce	5	Pole/Log/Sap	9	91	Northern White Cedar	15	Pole/Log	9	91	Black Ash	72	Pole/Sap/Log	7	91	Green Ash	3	Pole/Sap/Log	8	91	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	Variable	Tall Shrub												
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Yellow Birch	3	Pole/Sap/Log	8	91																																																								
Red Maple	2	Log/Pole	10	91																																																								
Black Spruce	5	Pole/Log/Sap	9	91																																																								
Northern White Cedar	15	Pole/Log	9	91																																																								
Black Ash	72	Pole/Sap/Log	7	91																																																								
Green Ash	3	Pole/Sap/Log	8	91																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Tag Alder	Low	Variable	Tall Shrub																																																									
18	4130 - Aspen	Sapling Well	49.1	14	Immature	N/A	Stand was clearcut in 2007 on contract 030-03-01. The pine, oak, elm, beech, and yellow birch was retained, along with two retention patches. Fully stocked aspen stand with pockets of spruce/fir regeneration and a couple of lowland pockets.																																																					
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>White Spruce</td><td>5</td><td>Sapling/Pole</td><td>2</td><td>14</td></tr> <tr><td>Quaking Aspen</td><td>75</td><td>Sapling</td><td>2</td><td>14</td></tr> <tr><td>Balsam Poplar</td><td>5</td><td>Sapling</td><td>2</td><td>14</td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Sapling/Pole</td><td>2</td><td>14</td></tr> <tr><td>Black Ash</td><td>5</td><td>Sapling</td><td>2</td><td>14</td></tr> <tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>2</td><td>14</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	5	Sapling/Pole	2	14	Quaking Aspen	75	Sapling	2	14	Balsam Poplar	5	Sapling	2	14	Balsam Fir	5	Sapling/Pole	2	14	Black Ash	5	Sapling	2	14	Black Cherry	5	Sapling	2	14	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub												
Canopy Species	% Cover	Size Class	DBH	Age																																																								
White Spruce	5	Sapling/Pole	2	14																																																								
Quaking Aspen	75	Sapling	2	14																																																								
Balsam Poplar	5	Sapling	2	14																																																								
Balsam Fir	5	Sapling/Pole	2	14																																																								
Black Ash	5	Sapling	2	14																																																								
Black Cherry	5	Sapling	2	14																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																									
19	4134 - Aspen, Spruce/Fir	Sapling Medium	8.4	6	Immature	N/A	Stand was clearcut in 2015 on contract 030-13-01; except some mature hardwood was retained. This stand has regenerated well with aspen. About 60% of the stand has dense aspen regeneration and the other 40% of the stand is regenerating with conifers. The deer have heavily browsed and killed nearly all hardwood stump sprouts following the harvest.																																																					
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>10</td><td>Log/Pole</td><td>13</td><td>104</td></tr> <tr><td>White Spruce</td><td>10</td><td>Sapling</td><td>1</td><td>6</td></tr> <tr><td>Quaking Aspen</td><td>65</td><td>Sapling</td><td>1</td><td>6</td></tr> <tr><td>Balsam Fir</td><td>10</td><td>Sapling</td><td>1</td><td>6</td></tr> <tr><td>White Pine</td><td>3</td><td>Sapling</td><td>1</td><td>6</td></tr> <tr><td>Ironwood</td><td>2</td><td>Sapling</td><td>1</td><td>6</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	10	Log/Pole	13	104	White Spruce	10	Sapling	1	6	Quaking Aspen	65	Sapling	1	6	Balsam Fir	10	Sapling	1	6	White Pine	3	Sapling	1	6	Ironwood	2	Sapling	1	6																						
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Sugar Maple	10	Log/Pole	13	104																																																								
White Spruce	10	Sapling	1	6																																																								
Quaking Aspen	65	Sapling	1	6																																																								
Balsam Fir	10	Sapling	1	6																																																								
White Pine	3	Sapling	1	6																																																								
Ironwood	2	Sapling	1	6																																																								
20	4110 - Sugar Maple Association	Sawtimber Well	4.7	104	81-110	N/A	Moderate to low quality hardwood stand. This stand should be shelterwood cut to begin to regenerate upland conifers. By doing a shelterwood harvest, partial sunlight will reach the ground allowing the conifer seeds to germinate. After the regeneration becomes established the remaining overstory can be harvested.																																																					
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>60</td><td>Log/Pole</td><td>12</td><td>104</td></tr> <tr><td>Red Maple</td><td>5</td><td>Log/Pole</td><td>10</td><td>104</td></tr> <tr><td>Basswood</td><td>20</td><td>Log/Pole</td><td>13</td><td>104</td></tr> <tr><td>White Ash</td><td>5</td><td>Log/Pole</td><td>10</td><td>104</td></tr> <tr><td>Beech</td><td>3</td><td>Log/Pole</td><td>10</td><td>104</td></tr> <tr><td>White Spruce</td><td>2</td><td>Pole/Log/Sap</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>3</td><td>Pole/Sap/Log</td><td>7</td><td></td></tr> <tr><td>Ironwood</td><td>2</td><td>Pole/Sapling</td><td>5</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	60	Log/Pole	12	104	Red Maple	5	Log/Pole	10	104	Basswood	20	Log/Pole	13	104	White Ash	5	Log/Pole	10	104	Beech	3	Log/Pole	10	104	White Spruce	2	Pole/Log/Sap	8		Balsam Fir	3	Pole/Sap/Log	7		Ironwood	2	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	5 - 10 feet	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Sugar Maple	60	Log/Pole	12	104																																																								
Red Maple	5	Log/Pole	10	104																																																								
Basswood	20	Log/Pole	13	104																																																								
White Ash	5	Log/Pole	10	104																																																								
Beech	3	Log/Pole	10	104																																																								
White Spruce	2	Pole/Log/Sap	8																																																									
Balsam Fir	3	Pole/Sap/Log	7																																																									
Ironwood	2	Pole/Sapling	5																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Quaking Aspen	Low	5 - 10 feet	Sapling																																																									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>21</b>	6115 - Lowland Ash	Poletimber Well	12.3	91	81-110	N/A	Moderate to low quality black ash stand. The west end of the stand has better quality ash and the west end has higher ground with good quality black spruce. A high percentage of the spruce has already died, due to the spruce budworm and age. This stand needs to be harvested to salvage as much spruce as possible and prior to the arrival of the emerald ash borer that will kill all of the ash.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Northern White Cedar		10	Log/Pole	12	91	Tag Alder		
Black Ash		60	Pole/Sap/Log	8	91	Medium		
Green Ash		15	Log/Pole	11	91	Variable		
Black Spruce		8	Log/Pole	12	91	Tall Shrub		
Quaking Aspen		2	Pole	8				
Red Maple		2	Pole	8				
White Pine		3	Log/Pole	14	91			
<b>22</b>	4134 - Aspen, Spruce/Fir	Sapling Well	42.9	23	1-50	N/A	Stand was clearcut in 1998 on contract 024-98-01. Fully stocked aspen and spruce/fir stand. The spruce/fir is being defoliated by the spruce budworm, which will eventually kill the majority of it.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		25	Sapling/Pole	4	23	White Pine		
Quaking Aspen		50	Sapling/Pole	4	23	Low		
Balsam Poplar		3	Sapling/Pole	4	23	Medium		
Balsam Fir		10	Sapling/Pole	3	23	10 - 20 feet		
White Spruce		10	Sapling/Pole	4	23	Sapling		
Black Cherry		2	Sapling	2	23	10 - 20 feet		
						Sapling		
<b>23</b>	6118 - Lowland Deciduous with Cedar	Poletimber Well	1.5	107	81-110	N/A	Moderate quality mature lowland hardwood and cedar stand. The stand should be harvested prior to the arrival of the emerald ash borer. Also, the tamarack is dying due to the eastern larch beetle. Harvest this stand to salvage as much wood as possible and to regenerate the hardwood species while they are vigorous enough to stump sprout.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Log/Pole	10	107	Tag Alder		
Paper Birch		2	Pole	7	107	Low		
Northern White Cedar		35	Log/Pole	10	107	Variable		
Yellow Birch		3	Pole	8	107	Tall Shrub		
Tamarack		5	Log/Pole/Sap	10	107			
Black Ash		50	Pole/Log	9	107			
<b>24</b>	6120 - Lowland Cedar	Poletimber Well	3.7	107	111-140	N/A	Moderate quality cedar stand, with some pockets of ash. This stand had heavy deer use, during the winter of 2020-21.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Tamarack		2	Log/Pole	10	91	Black Spruce		
Paper Birch		5	Pole/Log	9	91	Low		
Northern White Cedar		75	Pole/Log	9	107	Medium		
Black Ash		18	Pole/Sap/Log	6	91	Variable		
						Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
25	6118 - Lowland Deciduous with Cedar	Poletimber Well	6.8	91	51-80	N/A	Mature moderate to low quality black ash stand with some denser clumps of cedar. This stand needs to be harvested prior to the arrival of the emerald ash borer that will kill all of the ash. The cedar will be retained from the harvest, most of it is in small clumps and will not affect the lowland hardwoods for sprouting.																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>8</td> <td>91</td> </tr> <tr> <td>Black Spruce</td> <td>6</td> <td>Pole/Log</td> <td>9</td> <td>91</td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td>91</td> </tr> <tr> <td>Tamarack</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td>91</td> </tr> <tr> <td>Black Ash</td> <td>60</td> <td>Pole/Sap/Log</td> <td>8</td> <td>91</td> </tr> <tr> <td>Green Ash</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td>91</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	2	Pole	8	91	Black Spruce	6	Pole/Log	9	91	Northern White Cedar	20	Pole/Log	9	91	Tamarack	2	Log/Pole	10	91	Black Ash	60	Pole/Sap/Log	8	91	Green Ash	10	Log/Pole	10	91	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub							
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Paper Birch	2	Pole	8	91																																																	
Black Spruce	6	Pole/Log	9	91																																																	
Northern White Cedar	20	Pole/Log	9	91																																																	
Tamarack	2	Log/Pole	10	91																																																	
Black Ash	60	Pole/Sap/Log	8	91																																																	
Green Ash	10	Log/Pole	10	91																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Tag Alder	Medium	Variable	Tall Shrub																																																		
26	6229 - Mixed lowland shrub	Nonstocked	19.3	0	Unspecified	613 - Lowland Mixed Forest	Stand was shelterwood cut in 2017 on contract 030-13-01. About 20 BA was retained, to provide partial shade. The ash and maple that stump sprouted following the harvest have been heavily browsed and killed by deer. Lowland hardwood has been nearly eliminated from the stand, now we will be relying on conifers to continue to seed in.																																														
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Black Ash</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Yellow Birch</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	Low	>20 feet	Pole	Black Ash	Low	>20 feet	Pole	Yellow Birch	Low	>20 feet	Pole	Balsam Fir	Low	< 5 feet	Sapling	White Spruce	Low	< 5 feet	Sapling																										
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Northern White Cedar	Low	>20 feet	Pole																																																		
Black Ash	Low	>20 feet	Pole																																																		
Yellow Birch	Low	>20 feet	Pole																																																		
Balsam Fir	Low	< 5 feet	Sapling																																																		
White Spruce	Low	< 5 feet	Sapling																																																		
27	6121 - Tamarack	Sapling Well	4.4	4	Immature	N/A	Stand was clearcut in 2017 on contract 030-13-01. This stand has fully regenerated with a mix of black spruce and tamarack.																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>50</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Balsam Fir</td> <td>50</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	50	Sapling	1	4	Balsam Fir	50	Sapling	1	4																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Tamarack	50	Sapling	1	4																																																	
Balsam Fir	50	Sapling	1	4																																																	
28	4130 - Aspen	Poletimber Well	30.8	38	81-110	N/A	Good quality aspen stand, with some older hardwoods. The stand will be ready to harvest next inventory cycle.																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Ash</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td>104</td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Pole</td> <td>7</td> <td>38</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td>38</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td>38</td> </tr> <tr> <td>Sugar Maple</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td>104</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Pole</td> <td>8</td> <td>38</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Ash	5	Pole/Log	9	104	Quaking Aspen	35	Pole	7	38	Balsam Fir	10	Pole/Sapling	6	38	White Spruce	5	Pole/Sapling	6	38	Sugar Maple	5	Pole/Log	9	104	Bigtooth Aspen	40	Pole	8	38	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Ironwood</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	10 - 20 feet	Sapling	Beech	Low	5 - 10 feet	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																	
White Ash	5	Pole/Log	9	104																																																	
Quaking Aspen	35	Pole	7	38																																																	
Balsam Fir	10	Pole/Sapling	6	38																																																	
White Spruce	5	Pole/Sapling	6	38																																																	
Sugar Maple	5	Pole/Log	9	104																																																	
Bigtooth Aspen	40	Pole	8	38																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Ironwood	Medium	10 - 20 feet	Sapling																																																		
Beech	Low	5 - 10 feet	Sapling																																																		
29	4110 - Sugar Maple Association	Sawtimber Well	5.8	104	81-110	N/A	High quality hardwood, that isn't in need of a thinning at this time. Stand was thinned in 2005 on contract 030-03-01.																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>65</td> <td>Log/Pole</td> <td>14</td> <td>104</td> </tr> <tr> <td>Basswood</td> <td>25</td> <td>Log/Pole</td> <td>16</td> <td>104</td> </tr> <tr> <td>White Ash</td> <td>10</td> <td>Log/Pole</td> <td>13</td> <td>104</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	65	Log/Pole	14	104	Basswood	25	Log/Pole	16	104	White Ash	10	Log/Pole	13	104	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	< 5 feet	Sapling	Ironwood	Low	10 - 20 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	65	Log/Pole	14	104																																																	
Basswood	25	Log/Pole	16	104																																																	
White Ash	10	Log/Pole	13	104																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																		
White Spruce	Low	< 5 feet	Sapling																																																		
Ironwood	Low	10 - 20 feet	Sapling																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>30</b>	6115 - Lowland Ash	Poletimber Medium	4.2	91	51-80	N/A	Mature low quality black ash stand. Harvest this stand prior to the arrival of the emerald ash borer. Harvesting the stand will allow the lowland hardwood to stump sprout following the harvest.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Green Ash</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td>91</td> </tr> <tr> <td>Black Ash</td> <td>70</td> <td>Pole/Sapling</td> <td>7</td> <td>91</td> </tr> <tr> <td>Balsam Fir</td> <td>3</td> <td>Pole/Sapling</td> <td>6</td> <td>91</td> </tr> <tr> <td>Northern White Cedar</td> <td>12</td> <td>Pole/Log</td> <td>9</td> <td>91</td> </tr> <tr> <td>Yellow Birch</td> <td>3</td> <td>Pole/Sapling</td> <td>7</td> <td>91</td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole/Sapling</td> <td>6</td> <td>91</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Green Ash	10	Pole/Log	9	91	Black Ash	70	Pole/Sapling	7	91	Balsam Fir	3	Pole/Sapling	6	91	Northern White Cedar	12	Pole/Log	9	91	Yellow Birch	3	Pole/Sapling	7	91	Paper Birch	2	Pole/Sapling	6	91	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Michigan Holly</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Michigan Holly	Low	5 - 10 feet	Tall Shrub								
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Green Ash	10	Pole/Log	9	91																																																						
Black Ash	70	Pole/Sapling	7	91																																																						
Balsam Fir	3	Pole/Sapling	6	91																																																						
Northern White Cedar	12	Pole/Log	9	91																																																						
Yellow Birch	3	Pole/Sapling	7	91																																																						
Paper Birch	2	Pole/Sapling	6	91																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																							
Michigan Holly	Low	5 - 10 feet	Tall Shrub																																																							
<b>31</b>	4130 - Aspen	Sapling Well	50.9	15	Immature	N/A	Stand was clearcut between 2005 and 2007 on contract 030-03-01. The pine, oak, elm, beech, and yellow birch was retained. Fully stocked aspen stand, with a few open areas that are filling in with upland conifers.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>2</td> <td>Sapling/Pole</td> <td>3</td> <td>40</td> </tr> <tr> <td>Quaking Aspen</td> <td>78</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td>40</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td>40</td> </tr> <tr> <td>White Ash</td> <td>2</td> <td>Sapling/Pole</td> <td>2</td> <td>40</td> </tr> <tr> <td>Black Cherry</td> <td>3</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> <tr> <td>Ironwood</td> <td>5</td> <td>Sapling/Pole</td> <td>2</td> <td>15</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	2	Sapling/Pole	3	40	Quaking Aspen	78	Sapling	3	15	Balsam Fir	5	Sapling/Pole	3	40	White Spruce	5	Sapling/Pole	3	40	White Ash	2	Sapling/Pole	2	40	Black Cherry	3	Sapling	3	15	Ironwood	5	Sapling/Pole	2	15	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub							
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Sugar Maple	2	Sapling/Pole	3	40																																																						
Quaking Aspen	78	Sapling	3	15																																																						
Balsam Fir	5	Sapling/Pole	3	40																																																						
White Spruce	5	Sapling/Pole	3	40																																																						
White Ash	2	Sapling/Pole	2	40																																																						
Black Cherry	3	Sapling	3	15																																																						
Ironwood	5	Sapling/Pole	2	15																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																							
<b>32</b>	6115 - Lowland Ash	Poletimber Well	2.2	91	51-80	N/A	Mature moderate to low quality black ash stand. This stand needs to be harvested prior to the arrival of the emerald ash borer that will kill all of the ash.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>9</td> <td>91</td> </tr> <tr> <td>Black Ash</td> <td>68</td> <td>Pole/Sap/Log</td> <td>8</td> <td>91</td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td>Pole/Sapling</td> <td>7</td> <td>91</td> </tr> <tr> <td>Northern White Cedar</td> <td>2</td> <td>Pole/Log</td> <td>9</td> <td>91</td> </tr> <tr> <td>Green Ash</td> <td>20</td> <td>Pole/Sap/Log</td> <td>8</td> <td>91</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	9	91	Black Ash	68	Pole/Sap/Log	8	91	Yellow Birch	5	Pole/Sapling	7	91	Northern White Cedar	2	Pole/Log	9	91	Green Ash	20	Pole/Sap/Log	8	91	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	5 - 10 feet	Sapling	Black Spruce	Low	5 - 10 feet	Sapling	Tag Alder	Low	5 - 10 feet	Tall Shrub									
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Maple	5	Pole	9	91																																																						
Black Ash	68	Pole/Sap/Log	8	91																																																						
Yellow Birch	5	Pole/Sapling	7	91																																																						
Northern White Cedar	2	Pole/Log	9	91																																																						
Green Ash	20	Pole/Sap/Log	8	91																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Balsam Fir	Low	5 - 10 feet	Sapling																																																							
Black Spruce	Low	5 - 10 feet	Sapling																																																							
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																							
<b>33</b>	6115 - Lowland Ash	Poletimber Well	3.1	91	51-80	N/A	Moderate to low quality black ash stand, that is mature and should be harvested prior to the arrival of the emerald ash borer. By harvesting the stand now, the lowland hardwoods will stump sprout following the harvest.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td>91</td> </tr> <tr> <td>Black Ash</td> <td>72</td> <td>Pole/Sap/Log</td> <td>8</td> <td>91</td> </tr> <tr> <td>Green Ash</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td>91</td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td>91</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td>91</td> </tr> <tr> <td>Tamarack</td> <td>3</td> <td>Pole</td> <td>8</td> <td>91</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	5	Pole/Log	8	91	Black Ash	72	Pole/Sap/Log	8	91	Green Ash	5	Pole/Log	9	91	Yellow Birch	5	Pole	8	91	Red Maple	10	Log/Pole	10	91	Tamarack	3	Pole	8	91	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Michigan Holly</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub	Michigan Holly	Low	5 - 10 feet	Tall Shrub	Balsam Fir	Low	5 - 10 feet	Sapling	Black Spruce	Low	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Northern White Cedar	5	Pole/Log	8	91																																																						
Black Ash	72	Pole/Sap/Log	8	91																																																						
Green Ash	5	Pole/Log	9	91																																																						
Yellow Birch	5	Pole	8	91																																																						
Red Maple	10	Log/Pole	10	91																																																						
Tamarack	3	Pole	8	91																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																							
Michigan Holly	Low	5 - 10 feet	Tall Shrub																																																							
Balsam Fir	Low	5 - 10 feet	Sapling																																																							
Black Spruce	Low	5 - 10 feet	Sapling																																																							
<b>34</b>	6120 - Lowland Cedar	Poletimber Poor	14.4	107	1-50	N/A	Stand was shelterwood cut in 2017 on contract 031-13-01. About 20 BA was retained, for seed and to provide partial shade. A buffer was also retained along the creek, which flows through the southern end of the stand. The residual cedar is dying out. All of the stump sprouts from the hardwoods that were harvested, have been heavily browsed and killed by deer. The stand will continue to regenerate with conifers over the next ten years.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Yellow Birch</td> <td>15</td> <td>Pole</td> <td>8</td> <td>107</td> </tr> <tr> <td>Black Ash</td> <td>25</td> <td>Pole/Sapling</td> <td>7</td> <td>107</td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole/Log</td> <td>9</td> <td>107</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	15	Pole	8	107	Black Ash	25	Pole/Sapling	7	107	Northern White Cedar	60	Pole/Log	9	107	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	< 5 feet	Sapling	Balsam Fir	Low	< 5 feet	Sapling																							
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Yellow Birch	15	Pole	8	107																																																						
Black Ash	25	Pole/Sapling	7	107																																																						
Northern White Cedar	60	Pole/Log	9	107																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Black Spruce	Low	< 5 feet	Sapling																																																							
Balsam Fir	Low	< 5 feet	Sapling																																																							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>35</b>	42340 - Upland Spruce/Fir	Sapling Medium	1.9	27	1-50	N/A	Stand was clearcut in 1993-94 on contract 010-88-01. The cedar was retained. This stand has mature cedar over spruce/fir and balm regeneration. The stand is nearly fully stocked, but now the spruce budworm is heavily defoliating the spruce/fir regeneration.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>		<b>Sub-Canopy Species</b>
Balsam Poplar		20	Sapling/Pole		3	27		
Balsam Fir		50	Sapling/Pole		3	27		Density
Northern White Cedar		15	Pole/Log		9	107		
White Spruce		10	Sapling/Pole		3	27		Size
Tamarack		5	Sapling/Pole		3	27		
<b>36</b>	42110 - Planted Red Pine	Poletimber Well	15.3	31	141-170	N/A	Good quality red pine plantation, that is ready to be thinned for the first time. Thinning the stand will allow more space to improve the growth of the remaining trees. This stand was trenched and planted in 1993 on FTP #33-321.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>		
Quaking Aspen		2	Pole/Sapling		5	31		
Balsam Poplar		3	Pole/Sapling		5	31		
Balsam Fir		3	Pole/Sapling		5	31		
White Spruce		5	Pole/Sapling		5	31		
Red Pine		87	Pole/Sapling		7	31		
<b>37</b>	42110 - Planted Red Pine	Sawtimber Well	2.2	62	141-170	N/A	Red pine plantation that has been thinned 3 times, with the last time in 2007 on contract 030-03-01. This stand is ready to be thinned again, to improve the growth of the remaining trees.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>		
Red Pine		100	Log/Pole		14	62		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>		<b>Size</b>			
Balsam Fir		Low	10 - 20 feet		Sapling			
White Spruce		Medium	10 - 20 feet		Sapling			
Black Cherry		Low	5 - 10 feet		Sapling			